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# RF Test Report

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Report No.: AGC16307240501ER01

**PRODUCT DESIGNATION** : Two Way Radio  
**BRAND NAME** : VGC  
**MODEL NAME** : VR-N76  
**APPLICANT** : VERO GLOBAL COMMUNICATION CO.LTD  
**DATE OF ISSUE** : May 29, 2024  
**STANDARD(S)** : ETSI EN 301 783 V2.1.1 (2016-01)  
**REPORT VERSION** : V 1.0

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**Report Revise Record**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	May 29, 2024	Valid	Initial Release

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## 1. TEST RESULT CERTIFICATION

<b>Applicant</b>	VERO GLOBAL COMMUNICATION CO.LTD
<b>Address</b>	No.4 Chongmin St, Qingmeng Area,Quanzhou Fujian, P.R.C 362006
<b>Manufacturer</b>	VERO GLOBAL COMMUNICATION CO.LTD
<b>Address</b>	No.4 Chongmin St, Qingmeng Area,Quanzhou Fujian, P.R.C 362006
<b>Factory</b>	VERO GLOBAL COMMUNICATION CO.LTD
<b>Address</b>	No.4 Chongmin St, Qingmeng Area,Quanzhou Fujian, P.R.C 362006
<b>Product Designation</b>	Two Way Radio
<b>Brand Name</b>	VGC
<b>Test Model</b>	VR-N76
<b>Date of receipt of test item</b>	May 07, 2024
<b>Date of Test</b>	May 07, 2024~May 29, 2024
<b>Test Result</b>	<b>Pass</b>

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. for compliance with the requirements set forth in the European Standard ETSI EN 301 783. The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Prepared By



Bibo Zhang  
(Project Engineer)

May 29, 2024

Reviewed By



Calvin Liu  
(Reviewer)

May 29, 2024

Approved By



Max Zhang  
Authorized Officer

May 29, 2024

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## 2. TECHNICAL INFORMATION

### 2.1 EUT DESCRIPTION

<b>Product Designation</b>	Two Way Radio
<b>Brand Name</b>	VGC
<b>Test Model</b>	VR-N76
<b>Hardware Version</b>	Ver: U/V_N76-23128
<b>Software Version</b>	0.6.8
<b>Operation Frequency</b>	VHF (144MHz-146MHz) UHF (430MHz~440MHz)
<b>Modulation</b>	FM
<b>Operation Mode</b>	Push to talk
<b>Channel Separation</b>	12.5KHz/25KHz
<b>Rated Output Power</b>	5W(It was fixed by the manufacturer, any individual can't arbitrarily change it.)
<b>Antenna Designation</b>	External Antenna
<b>Antenna Type</b>	Detachable Antenna
<b>Antenna Gain</b>	2.15dBi
<b>Power Supply</b>	DC 7.4V, 2600mAh by battery, charging with DC 8.4V

Note: For more details, please refer the user's manual

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Perform Radio Spectrum tests for CE Marking according to the provisions of article 3.2 of the Radio Equipment Directive (2014/53/EU) for the BT function of the EUT.

### 2.3 TEST ITEMS AND THE RESULTS

The EUT has been tested according to ETSI EN 301 783 V2.1.1(2016-01).

<b>ETSI EN 301 783 V2.2.2 (2019-07)</b>	Commercially available amateur radio equipment; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU
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Test items and the results are as bellow:

No	Basic Standard	Test Items	Test Mode	Result
1	ETSI EN 301 783 §5.1	Maximum Transmitter Power	TX	Pass
2	ETSI EN 301 783 §5.2	Unwanted Emissions in the Spurious Domain	TX	Pass
3	ETSI EN 301 783 §5.3	Spurious Radiations	TX	Pass
4	ETSI EN 301 783 §6.1	Maximum Usable Sensitivity	RX	Pass
5	ETSI EN 301 783 §6.2	Adjacent Channel Selectivity	RX	Pass
6	ETSI EN 301 783 §6.3	Conducted RF Immunity	RX	Pass

**Note:**

1. N/A means it's not applicable to this item.

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Test Items	Measurement Uncertainty	Notes
Frequency error	18Hz	(1)
Transmitter power conducted	0.63dB	(1)
Transmitter power Radiated	2.38dB	(1)
Adjacent and alternate channel power Conducted	0.98dB	(1)
Conducted spurious emission 9kHz-12.75 GHz	0.63dB	(1)
Radiated Emissions 30~1000MHz	4.80 dB	(1)
Radiated Emissions 1~18GHz	5.16 dB	(1)
Intermodulation attenuation	1.00 dB	(1)
Maximum useable receiver sensitivity	0.86dB	(1)
Co-channel rejection	1.30dB	(1)
Adjacent channel selectivity	1.40dB	(1)
Spurious response rejection	2.27dB	(1)
Intermodulation response rejection	2.39dB	(1)
Blocking or desensitization	2.20dB	(1)

Note :

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=1.96$ .

## 2.5 DESCRIPTION OF TEST MODES

The EUT has been tested under typical operating condition. No software used to control the EUT for staying in transmitting and receiving mode for testing.

Operation mode	Channel Separation	Operation Frequency Range	Test channel	Test Frequency
Analog	12.5 kHz&25 kHz	144-146MHz	Bottom	144.025 MHz
		144-146MHz	Middle	145.000 MHz
		144-146MHz	High	145.975 MHz
Analog	12.5 kHz&25 kHz	430-440MHz	Bottom	430.025 MHz
		430-440MHz	Middle	435.000 MHz
		430-440MHz	High	439.975 MHz

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### 3. TEST REQUIREMENT DISPLAY

#### 3.1 ARRANGEMENT FOR ANALOGUE TEST SIGNALS AT THE INPUT OF THE TRANSMITTER

For the purpose of the present document, in the case of analogue equipment, the transmitter audio frequency modulation signal shall be applied to the terminals of the audio input connector with any microphone disconnected, unless otherwise stated.

#### 3.2 ARRANGEMENT FOR TEST SIGNALS AT THE INPUT OF THE RECEIVER

RF test signal sources which are applied to the receiver shall present an impedance of 50  $\Omega$  to the receiver input. This requirement shall be met irrespective of whether one or more signals using a combining network are applied to the receiver simultaneously. The levels of the test signals shall be expressed in terms of the emf at the receiver input connector. The effects of any intermodulation products and noise produced in the test signal sources shall be negligible.

#### 3.3 CHARACTERISTICS OF TEST SIGNALS AT THE INPUT OF THE RECEIVER

Wanted RF test signals applied to the receiver shall have the modulation characteristics as specified in table 1.

**Table 1: Wanted test signal**

Mode	Units	Modulation
AM	60	% AM (1 kHz)
FM	60	% of the maximum permissible frequency deviation (1 kHz)
SSB	1 kHz offset	None
Other modes	as declared by the manufacturer	as declared by the manufacturer

**Table 2: Unwanted test signal**

Mode	Units	Modulation
AM	60	% AM (400 Hz)
FM	60	% of the maximum permissible frequency deviation (400 Hz)
SSB	Offset specified by test	None
Other modes	as declared by the manufacturer	as declared by the manufacturer

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## 4. FACILITIES AND ACCREDITATIONS

### 4.1 TEST FACILITIES

<b>Site</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location</b>	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao 'an District, Shenzhen, Guangdong, China

### 4.2 LIST OF EQUIPMENTS USED

Name of Equipment	Manufacturer	Model	Serial Number	Cal. Date	Cal. Due
SIGNAL ANALYZER	AGILENT	N9020A	MY53300860	Jun. 01, 2023	May 31, 2024
POWER ATTENUATOR	WEINSCHEL CORP	58-30-33	ML030	Jun. 04, 2023	Jun. 03, 2024
H&T Chamber	EXPERY	TN-400	TN2007SR038	Jun. 04, 2023	Jun. 03, 2024
Signal generator	Aglient	5182A	MY50140530	Jun. 01, 2023	May 31, 2024
Signal Generator	R&S	5182B	MY53050474	Jun. 01, 2023	May 31, 2024
Amplifier	Milmega	AS0104-55_55	-	Jun. 04, 2023	Jun. 03, 2024
ANTENNA	R&S	VULB9168	D69250	May 11, 2023	May 10, 2025
Horn Antenna	Schwarzbeck	3117	00034609	Mar. 31, 2024	Mar. 30, 2025
EMI Test Receiver	Rohde & Schwarz	ESCI	10096	Feb. 01, 2024	Jan. 31, 2025
RF Communication Test Set	HP	8920B	US35010161	Jun. 02, 2023	Jun. 01, 2024
UHF Filter	Microwave	N25155M2	498705	Jun. 01, 2023	May 31, 2024
VHF Filter	Microwave	N26460M1	498703	Jun. 01, 2023	May 31, 2024

### 4.3 MEASUREMENT UNCERTAINTY

Radio frequency:  $1 \times 10^{-7}$

RF Power(up to 120W):  $\pm 0.5\text{dB}$

Radiated RF power:  $\pm 4\text{dB}$

Conducted spurious emission of transmitter valid up to 12.75 GHz:  $\pm 2.75\text{dB}$

Conducted spurious emission of receiver, valid up to 12.75 GHz:  $\pm 4.2\text{dB}$

Two-signal measurement, valid up to 4 GHz:  $\pm 2\text{dB}$

Radiated emission of the transmitter, valid up to 4GHz:  $\pm 3\text{dB}$

Radiated emission of the receiver, valid up to 4 GHz:  $\pm 3\text{dB}$

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## 5. SETUP OF EQUIPMENT UNDER TEST

### 5.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix I for the actual connections between EUT and support equipment.

### 5.2 SUPPORT EQUIPMENT

No available support equipment during the testing.

#### Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

## 3.4 SUPPORTED TEST SIGNALS

### Analogue signals

For tests on analogue equipment via the audio input socket terminals, the test signal shall consist of two equal amplitude non harmonically related sinusoidal input signals selected to be in the range 500 Hz to 3 kHz with at least 500 Hz separation between them, each of which would independently drive the transmitter into its compression region. The composite signal level shall be 20 dB higher than the level which produces 60 % modulation unless the output power at this drive level is less than the highest Tx output power in which case the signal level shall be set to produce the highest possible Tx output power. For tests via any facilities sockets this test signal shall be of the nature described by the manufacturer for the purpose of the socket, at a level which produces the largest value of output power (PEP) possible with analogue modulation.

### Digital signals

For tests on digital equipment (including digital speech), the test signal be as declared by the manufacturer, at the appropriate data rate. If the transmission of a continuous bit stream is not possible, the test signal shall be trains of correctly coded bits or messages. For the purpose of testing PX in clause 5.1 the test signal shall produce the largest value of output power (PEP) possible with digital modulation. If this is not the case then a test signal that does produce the largest possible value of output power (PEP) with digital modulation should be used in the testing in clause 5.1. For digital equipments that support adaptive rates, testing is only required at one bit rate. For transmitter tests in this clause this would normally be the highest bit-rate supported by the equipment.

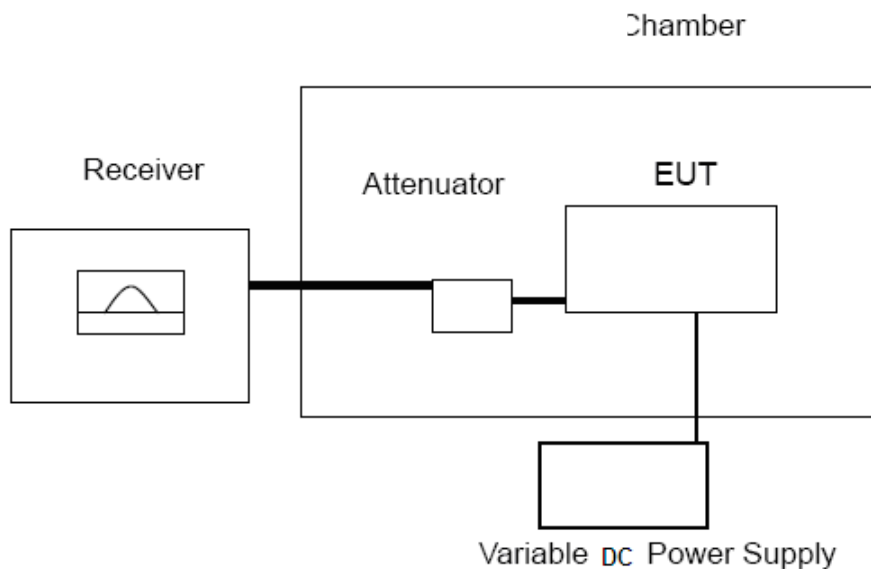
## 6. EN 301 783 MEASUREMENT REQUIREMENTS

### 6.1 MAXIMUM TRANSMITTER POWER (CONDUCTED)

#### TEST LIMIT

The PX of the transmitter is the maximum value of the output PEP for any condition of modulation. The rated maximum power of the transmitter is that declared by the manufacturer.

#### TEST CONFIGURATION



**Note:** The impedance of attenuator is 50ohm.

#### TEST PROCEDURE

1. Please refer to ETSI EN 301 783 (V2.1.1) Sub-clause 4.2 for the test conditions.
2. Please refer to ETSI EN 301 783 (V2.1.1) Sub-clause 5.1.2 for the measurement method.

#### TEST RESULT:

##### **Note:**

1. The EUT have been tested under DC 7.4V.
2. Only result the worst case in this part.

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modulation		Test Channel	Channel Separation	RF Output power (dBm)
F3E	5W	Low (UHF)	12.5 KHz	<b>36.96</b>
		Middle (UHF)	12.5 KHz	36.79
		High (UHF)	12.5 KHz	36.82

modulation		Channel	Channel Separation	RF Output power (dBm)
F3E	5W	Low (UHF)	25 KHz	36.90
		Middle (UHF)	25 KHz	<b>36.96</b>
		High (UHF)	25 KHz	36.78

modulation		Test Channel	Channel Separation	RF Output power (dBm)
F3E	5W	Low (VHF)	12.5 KHz	36.52
		Middle (VHF)	12.5 KHz	<b>36.79</b>
		High (VHF)	12.5 KHz	36.78

modulation		Channel	Channel Separation	RF Output power (dBm)
F3E	5W	Low (VHF)	25 KHz	36.67
		Middle (VHF)	25 KHz	36.80
		High (VHF)	25 KHz	<b>36.81</b>

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## 6.2 CONDUCTED SPURIOUS EMISSION IN TRANSMIT MODE

### TEST LIMIT

The power of any spurious emission, occurring outside the exclusion band centred on the frequency on which the transmitter is intended to operate, shall not exceed the values given in tables 6 and 8 with the transmitter operating and tables 7 and 9 with the transmitter in standby mode.

**Table 6: Antenna port limits in transmit mode**

Frequency range or operating mode	Test Limits	Remarks
Mobile SSB equipment	-43 dBc	
Below or equal to 30 MHz	$-(43 + 10 \times \log(\text{PEP}))$ or -50 dBc whichever is higher	
Above 30 MHz	$-(43 + 10 \times \log(\text{PEP}))$ or -70 dBc whichever is higher	(see note)
NOTE: For measurement at frequencies greater than 40 GHz no test limits are specified.		

**Table 3: Reference bandwidths to be used for the measurement of spurious emissions**

Frequency range	RBW
9 to 150 kHz	1 kHz
150 kHz to 30 MHz	10 kHz
30 MHz to 1 GHz	100 kHz
Above 1 GHz	1 MHz

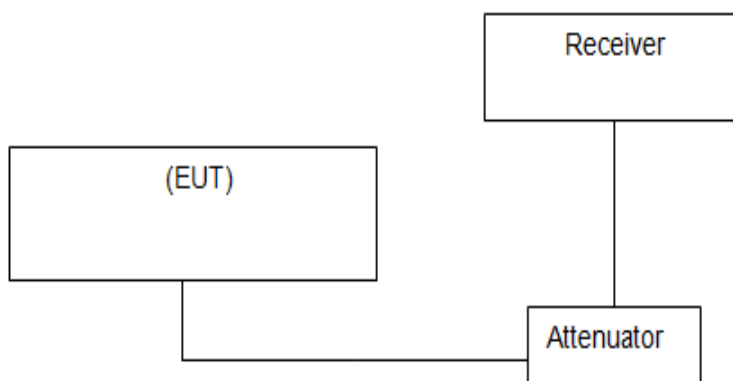
For F3E modulation the rated output power is (VHF/UHF:5W)

$-(43+10*\log(\text{PEP}))=-49.99\text{dBc}$  (5W) –VHF/UHF

refer to table 6, the limit for F3E modulation should be:

**-49.99dBc (-13dBm) below 30MHz, and -49.99dBc (-13dBm) above 30MHz---(5W)-VHF/UHF**

### TEST CONFIGURATION



**Note:** The impedance of attenuator is 50ohm.

### TEST PROCEDURE

1. Please refer to ETSI EN 301 783(V2.1.1) clause 4.2 for test condition.
  2. Please refer to ETSI EN 301 783 (V2.1.1) Sub-clause 5.2.2.1 for the measurement method.
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## **TEST RESULTS**

### **Note:**

1. The EUT have been tested under DC 7.4V.
2. Only result the worst case in this part.

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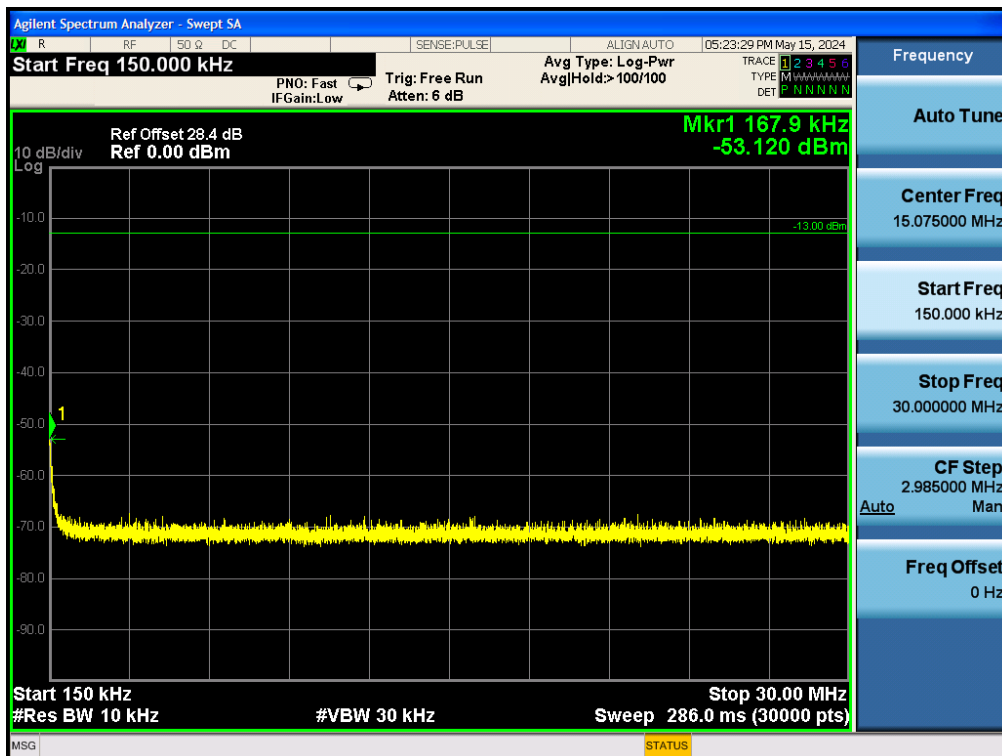
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**UNWANTED EMISSIONS AT BOTTOM CHANNEL**  
**(144.025MHz with 12.5 KHz channel separation)-5W**

Low channel, 9KHz-150KHz



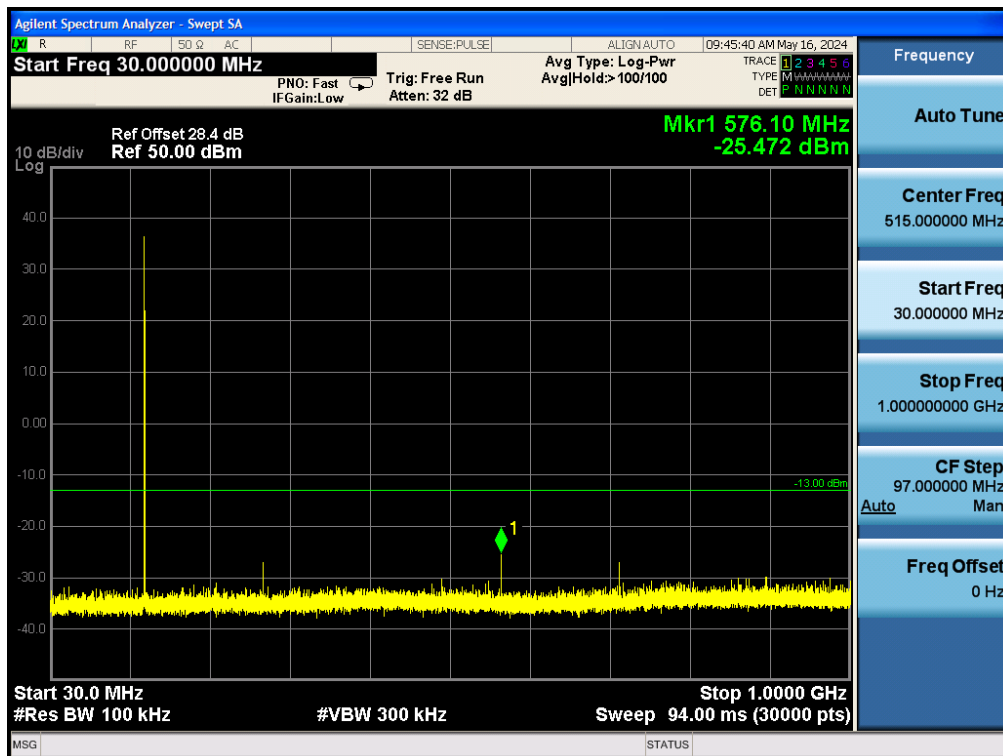
Low channel, 150KHz-30MHz



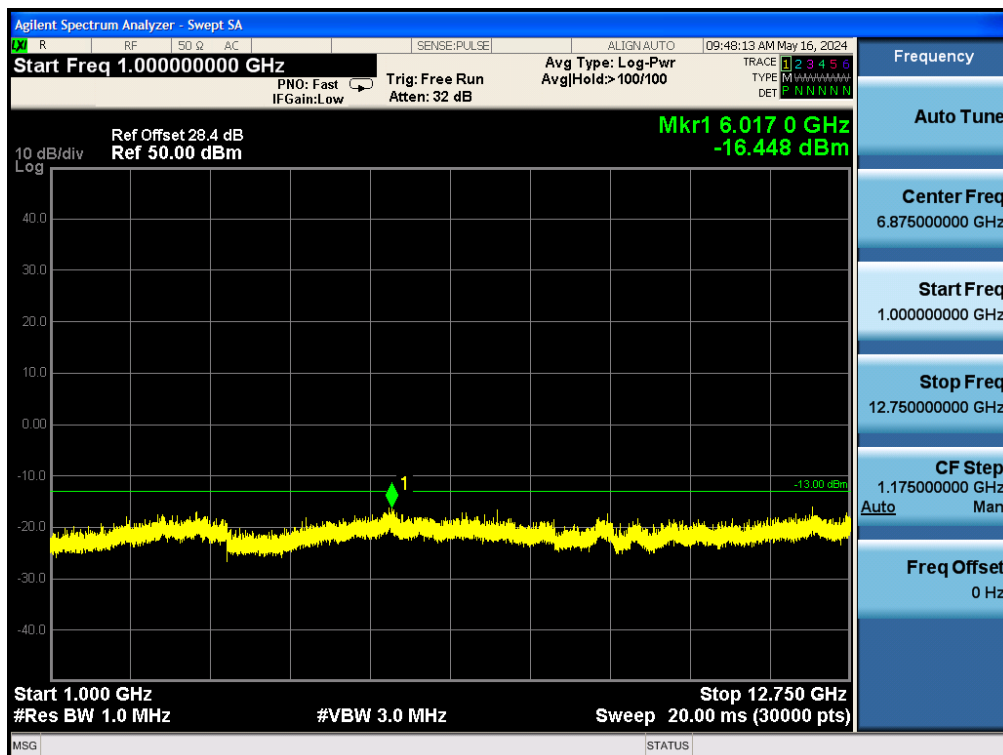
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### Low channel, 30MHz-1GHz



### Low channel, 1GHz-12.75GHz

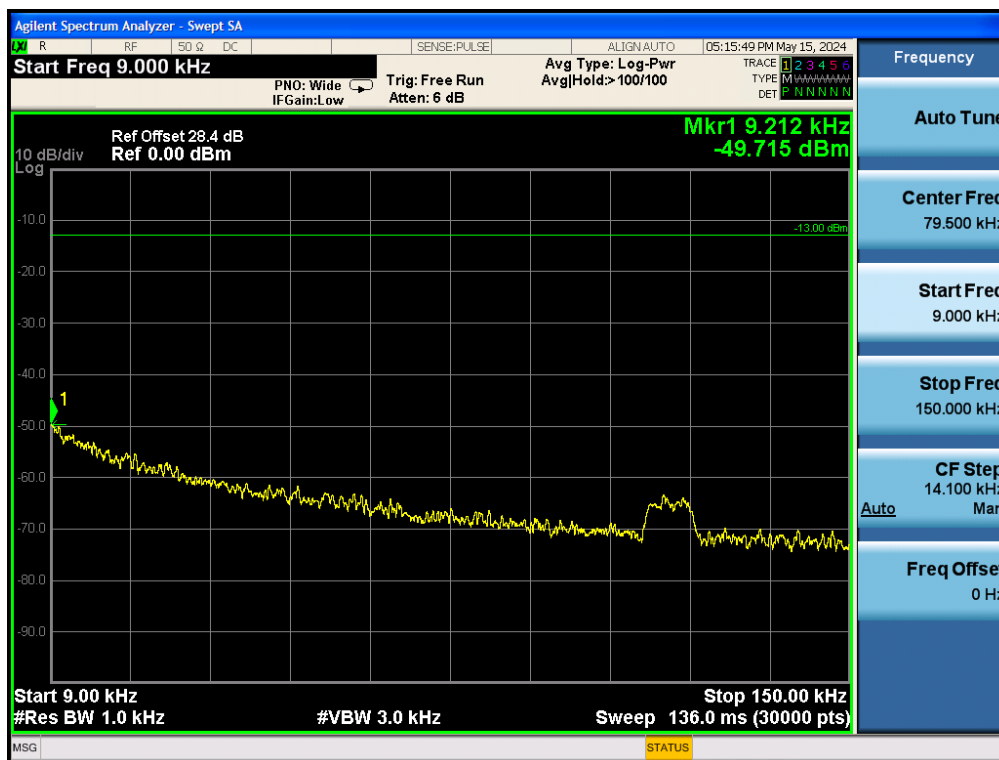


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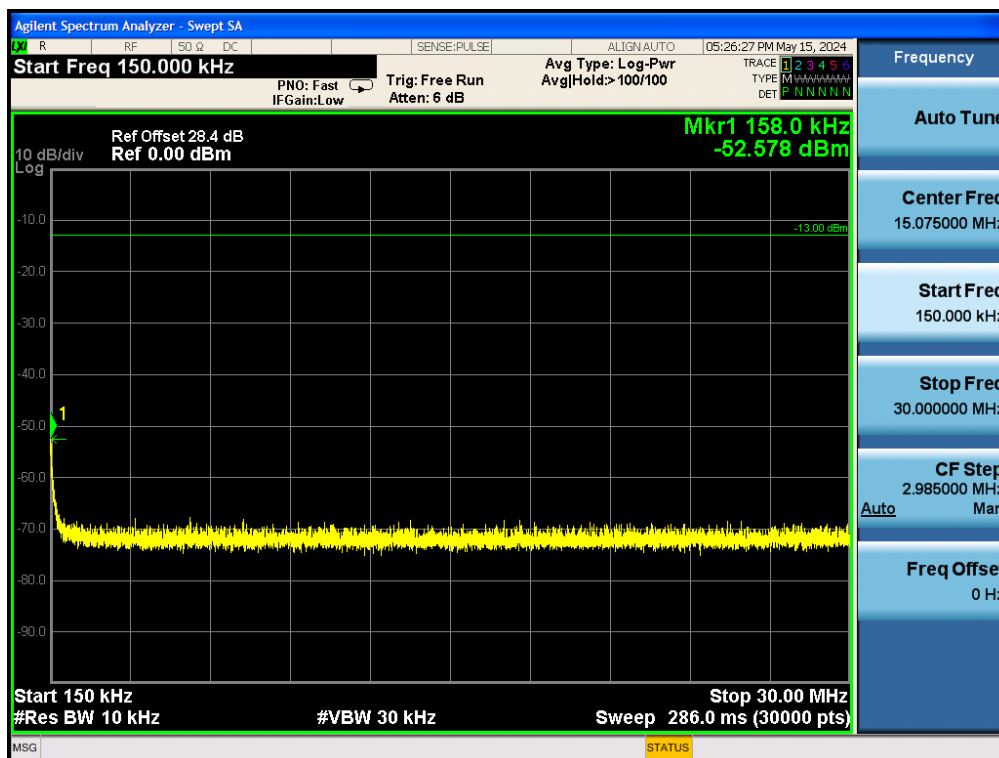


**UNWANTED EMISSIONS AT MIDDLE CHANNEL**  
**(145.000MHz with 12.5 kHz channel separation)-5W**

Middle channel, 9kHz-150kHz

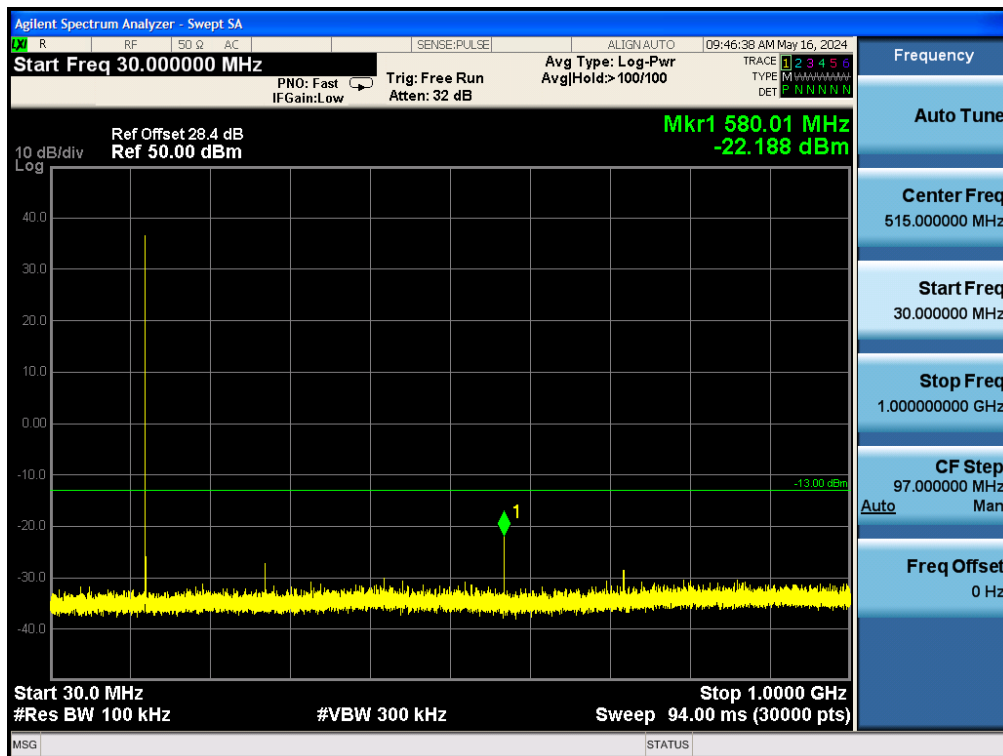


Middle channel, 150kHz-30MHz

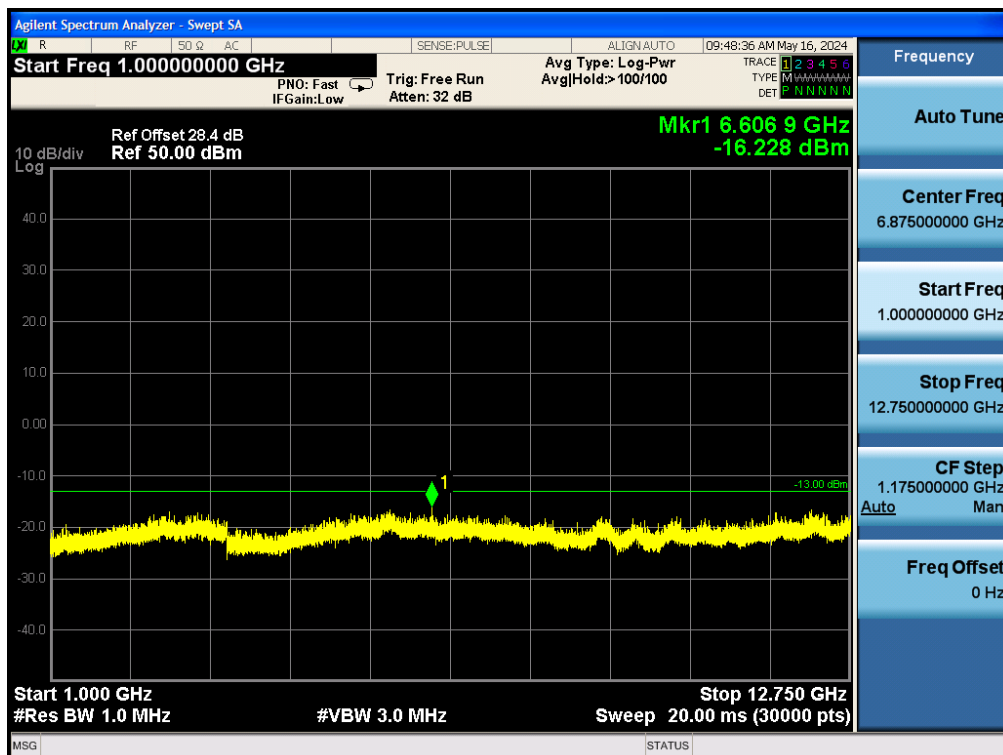


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Middle channel, 30MHz-1GHz



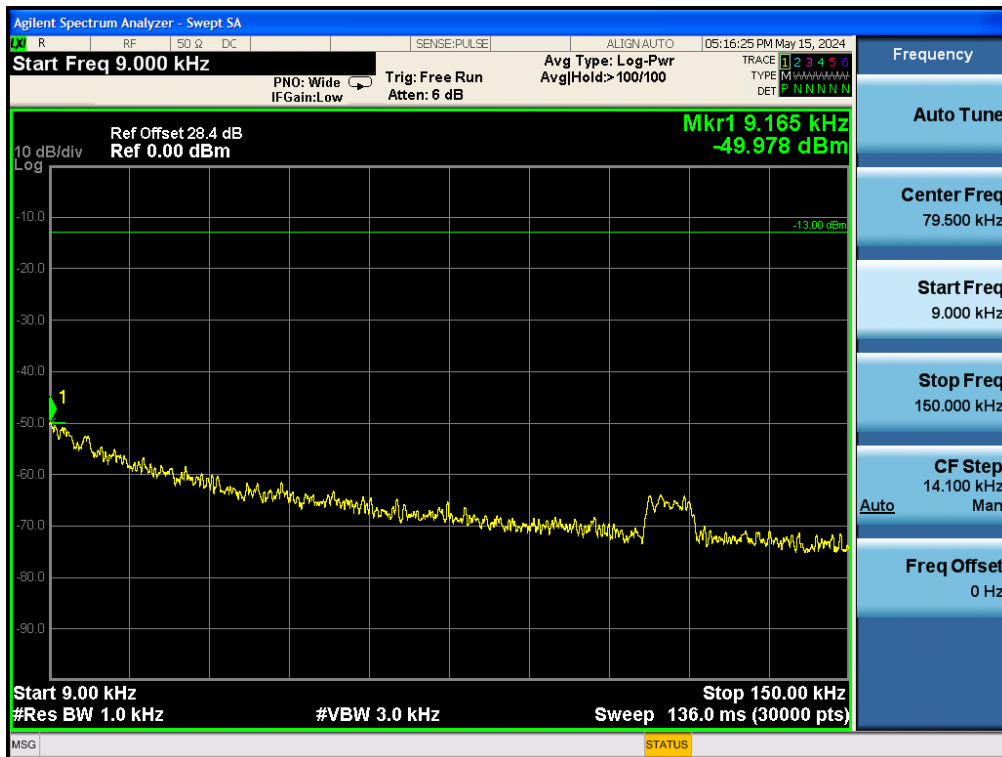
Middle channel, 1GHz-12.75GHz



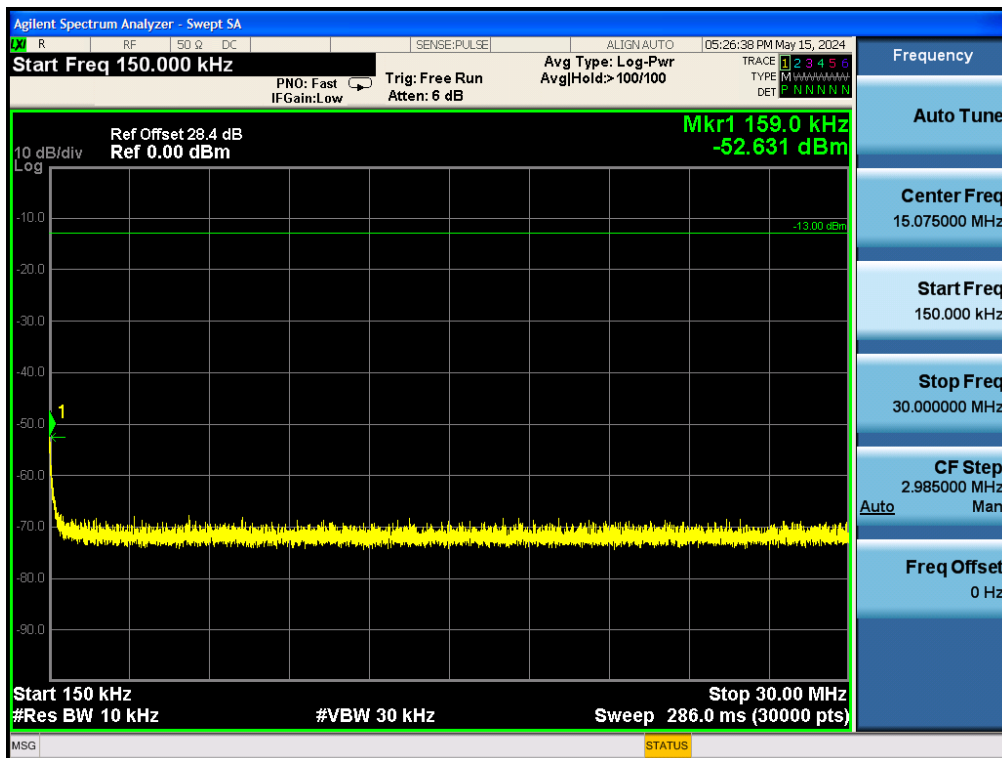
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**UNWANTED EMISSIONS AT TOP CHANNEL**  
**(145.975MHz with 12.5 kHz channel separation)-5W**

Top channel, 9kHz-150kHz



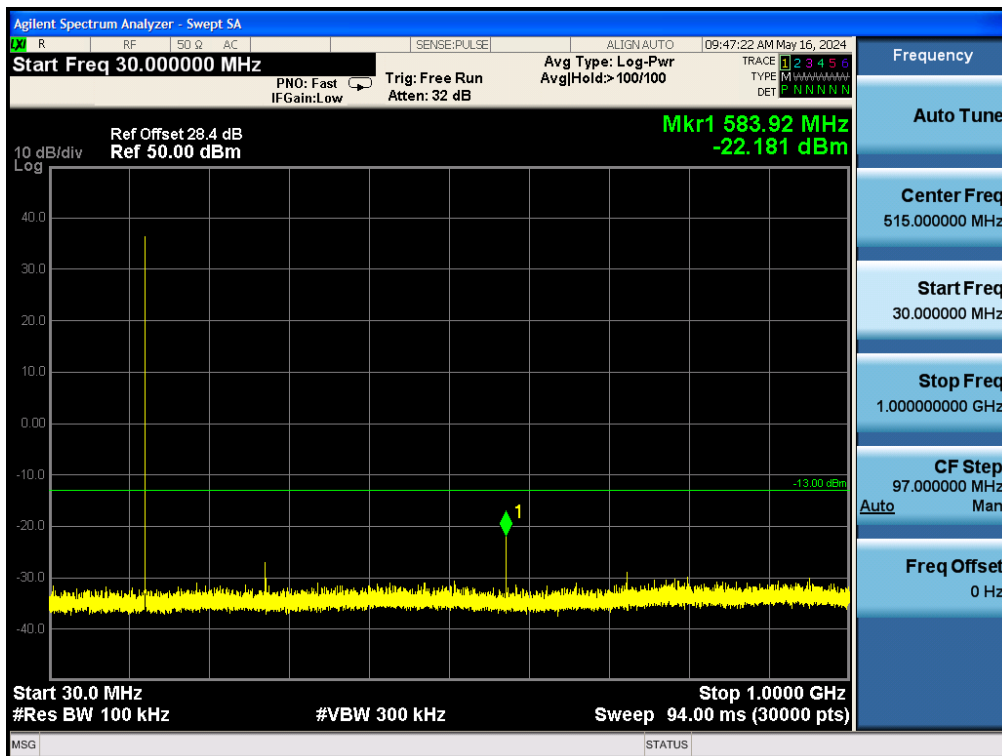
Top channel, 150kHz-30MHz



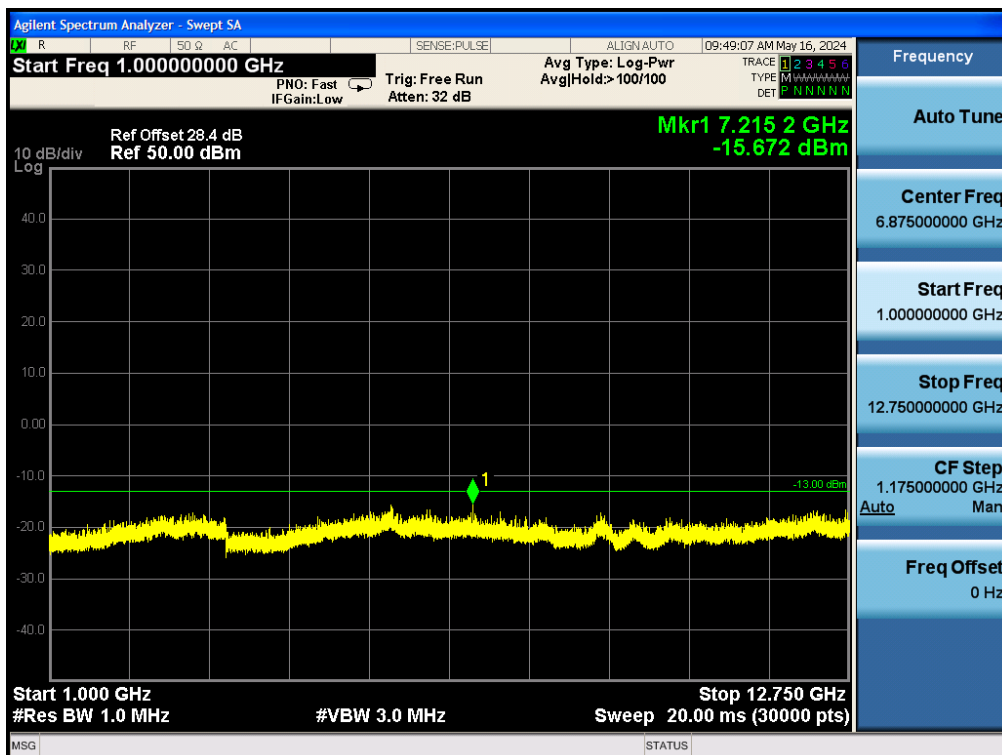
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Top channel, 30MHz-1GHz



Top channel, 1GHz-12.75GHz



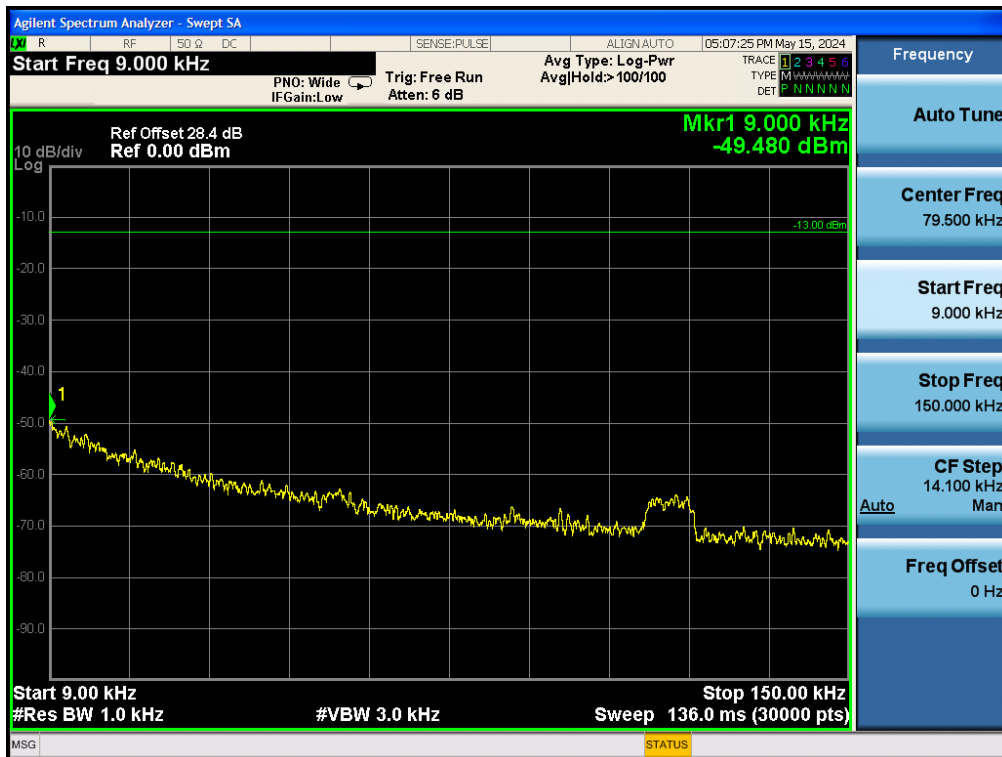
Note: All power was tested, but only data with the highest power were recorded in this section

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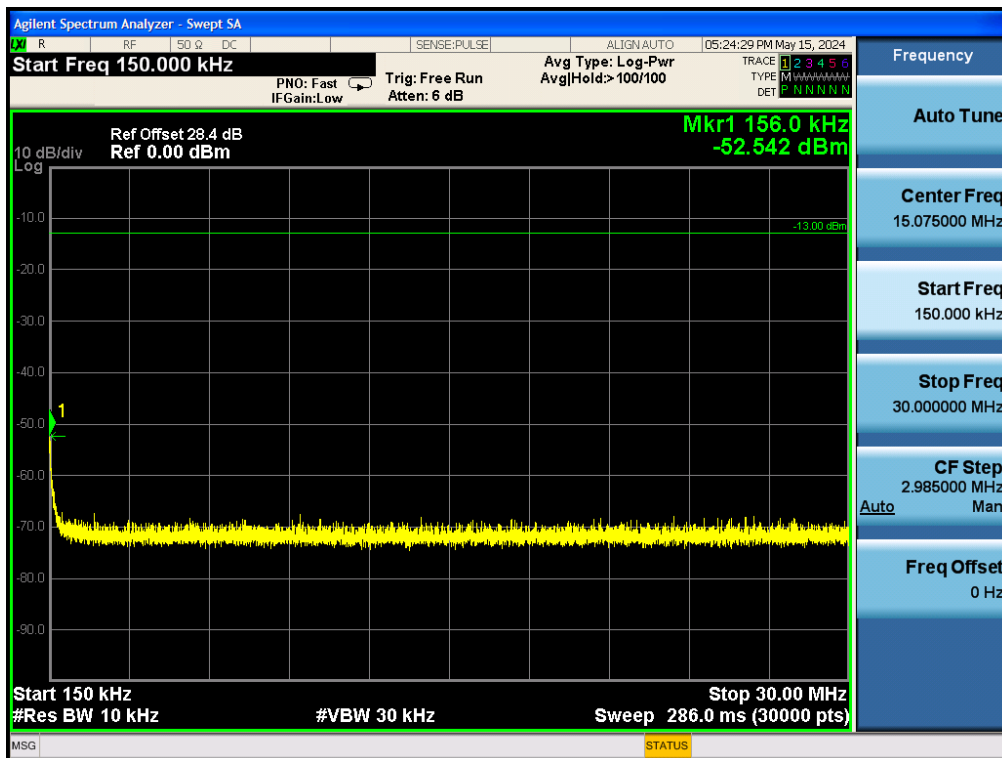
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**UNWANTED EMISSIONS AT BOTTOM CHANNEL**  
**(430.025MHz with 12.5 kHz channel separation)-5W**

Bottom channel, 9kHz-150kHz



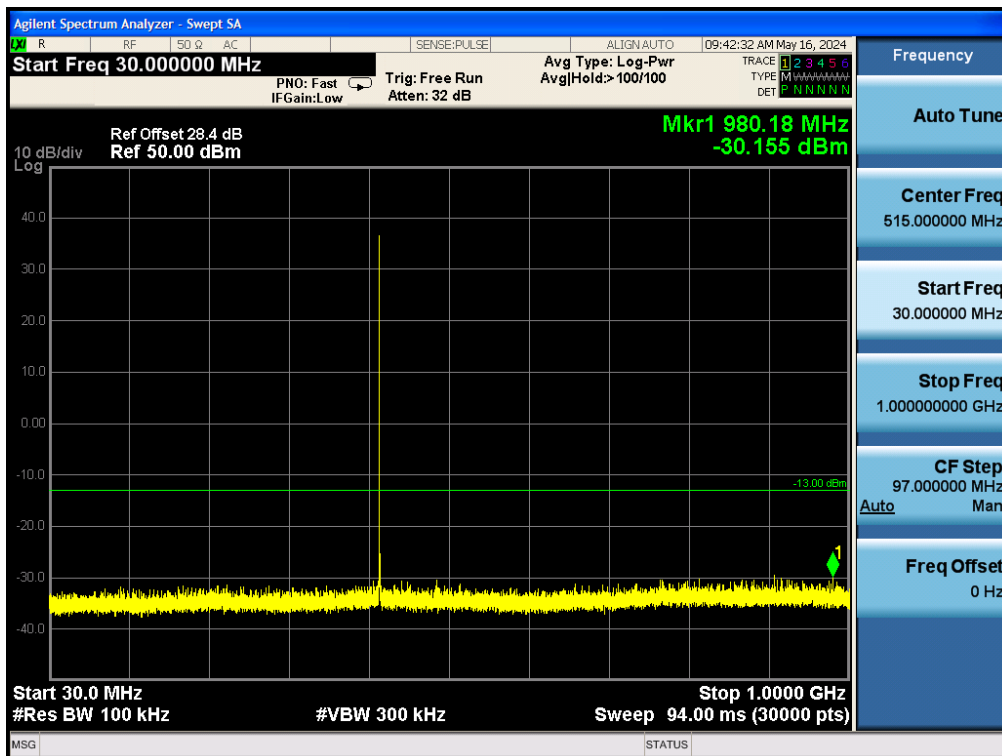
Bottom channel, 150kHz-30MHz



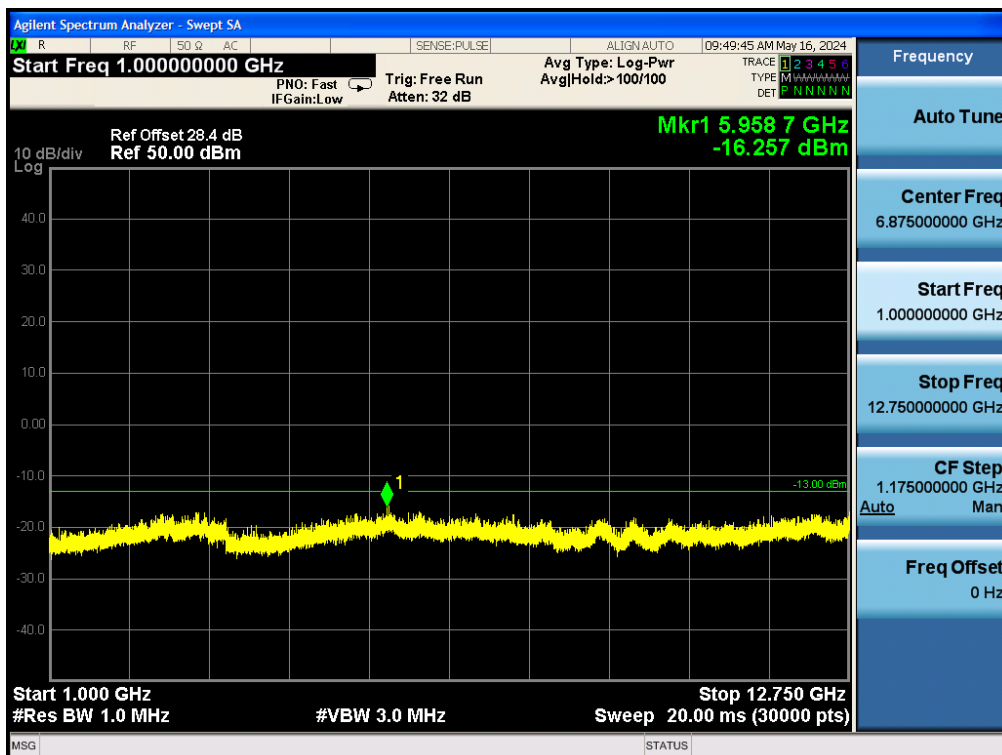
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Bottom channel, 30MHz-1GHz



Bottom channel, 1GHz-12.75GHz



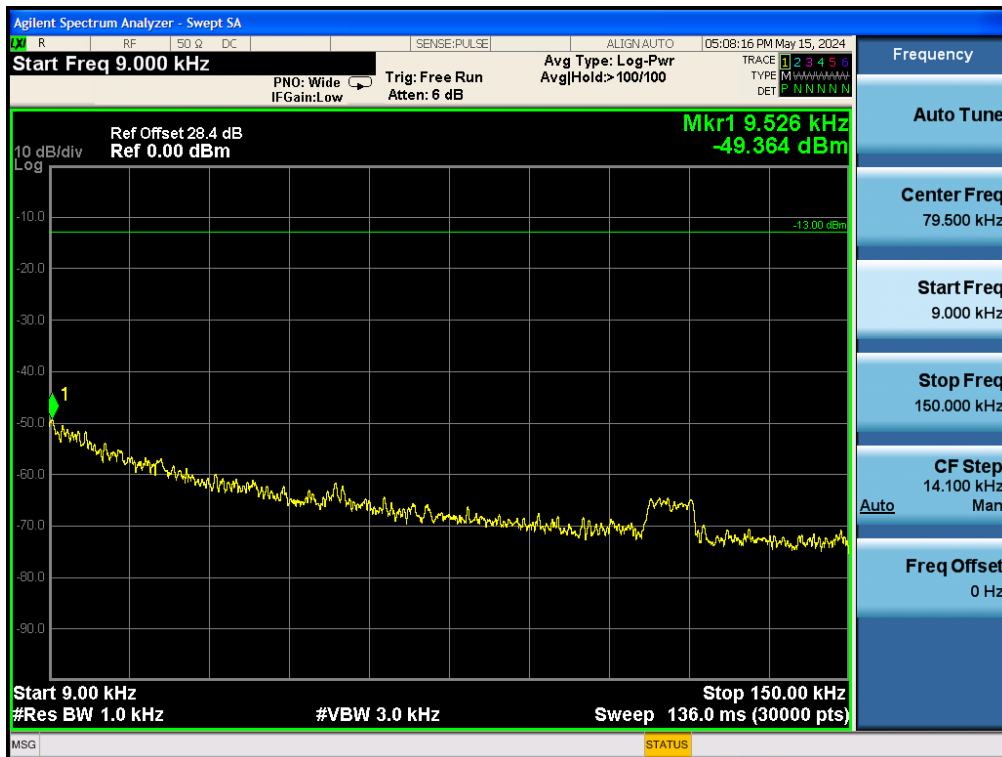
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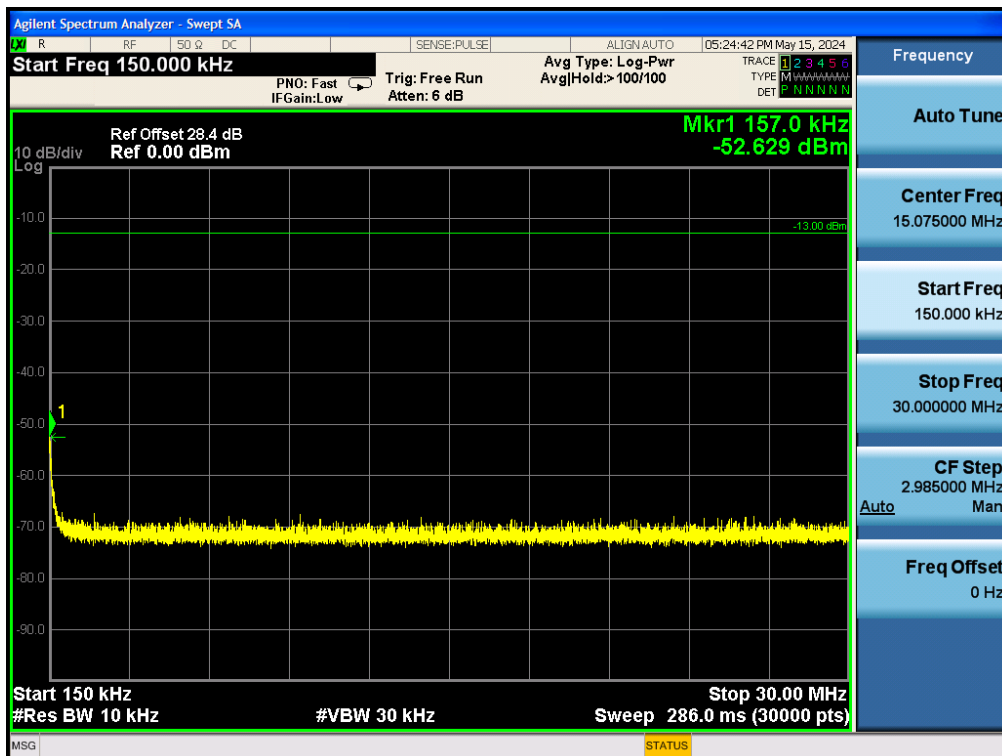


**UNWANTED EMISSIONS AT MIDDLE CHANNEL**  
**(435.000MHz with 12.5 kHz channel separation)-5W**

Middle channel, 9kHz-150kHz

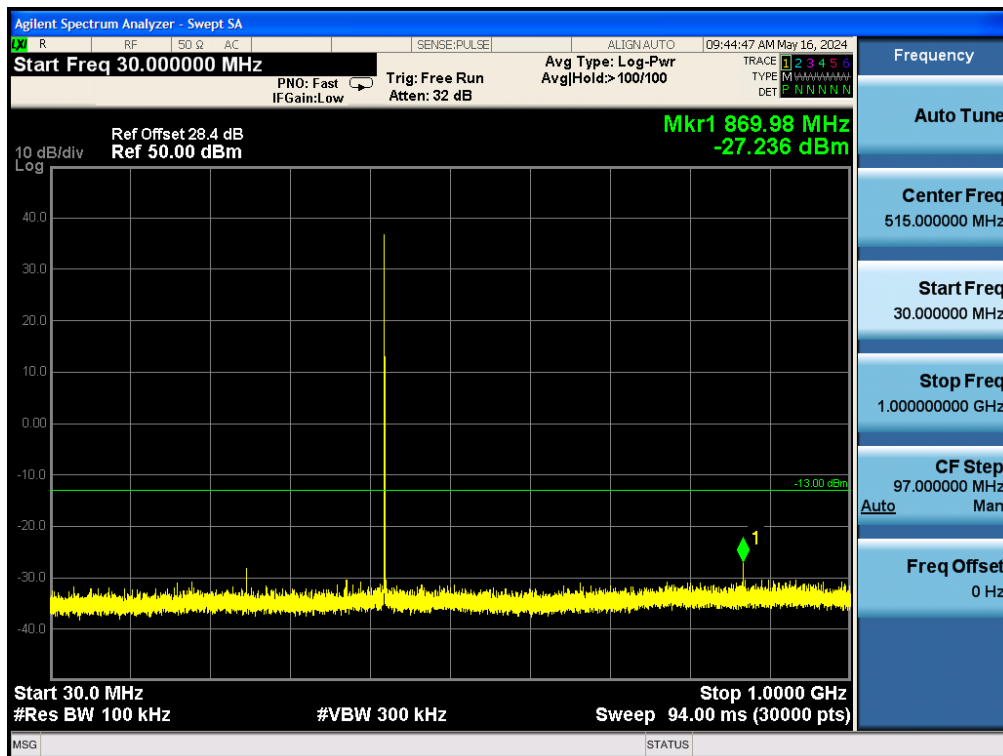


Middle channel, 150kHz-30MHz

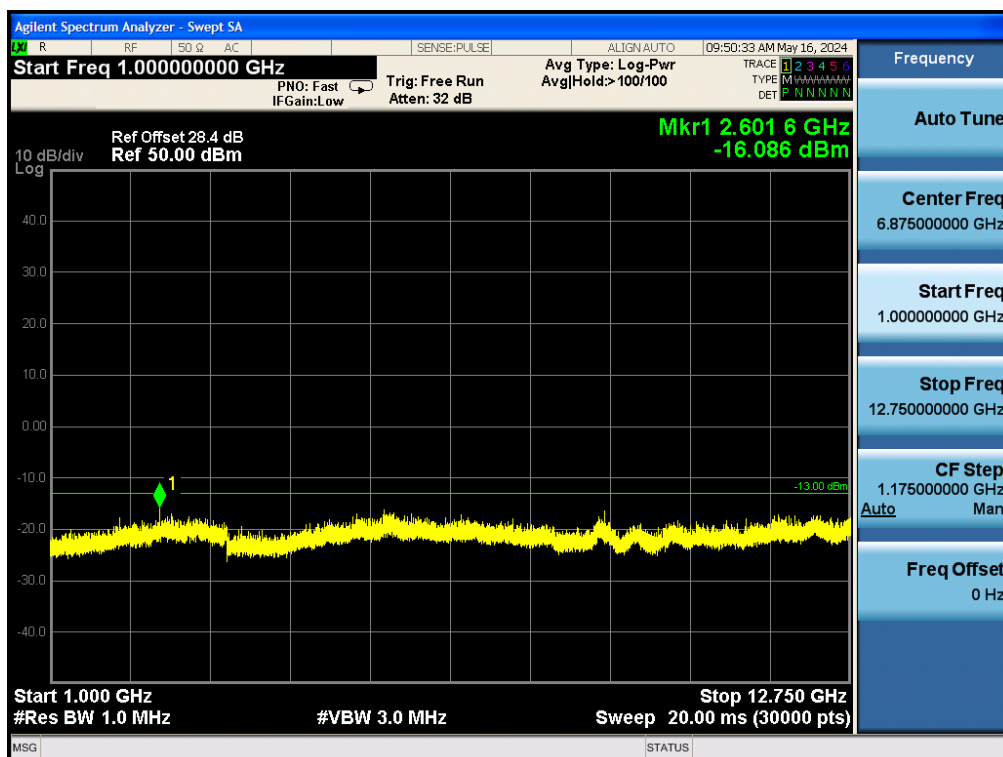


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### Middle channel, 30MHz-1GHz



### Middle channel, 1GHz-12.75GHz



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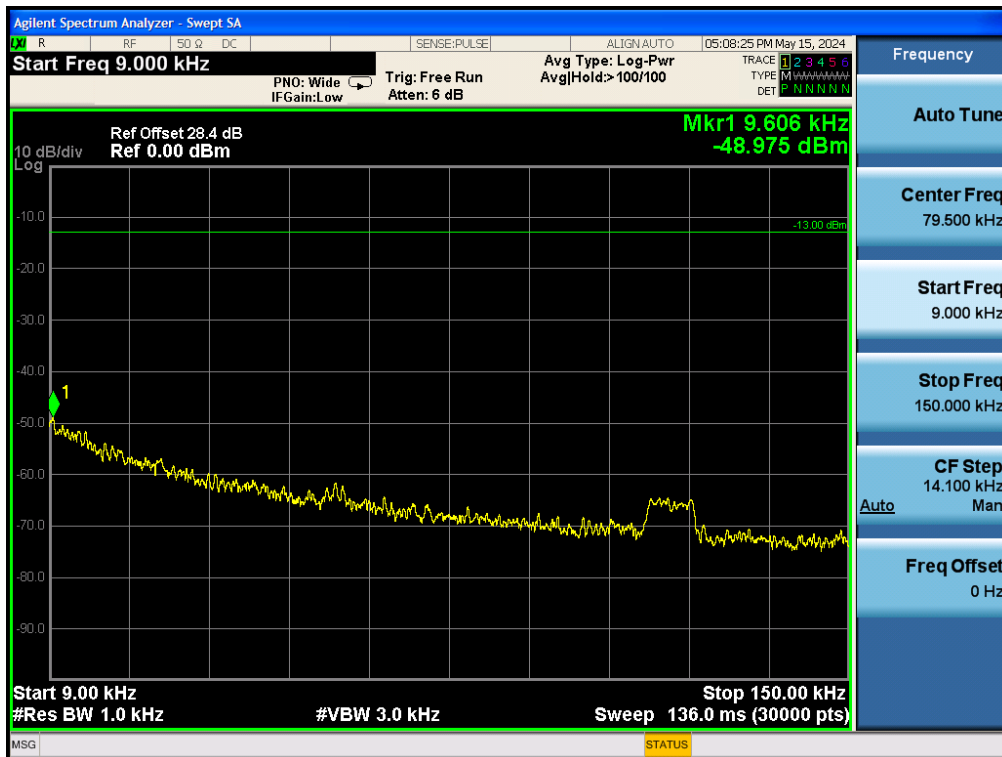
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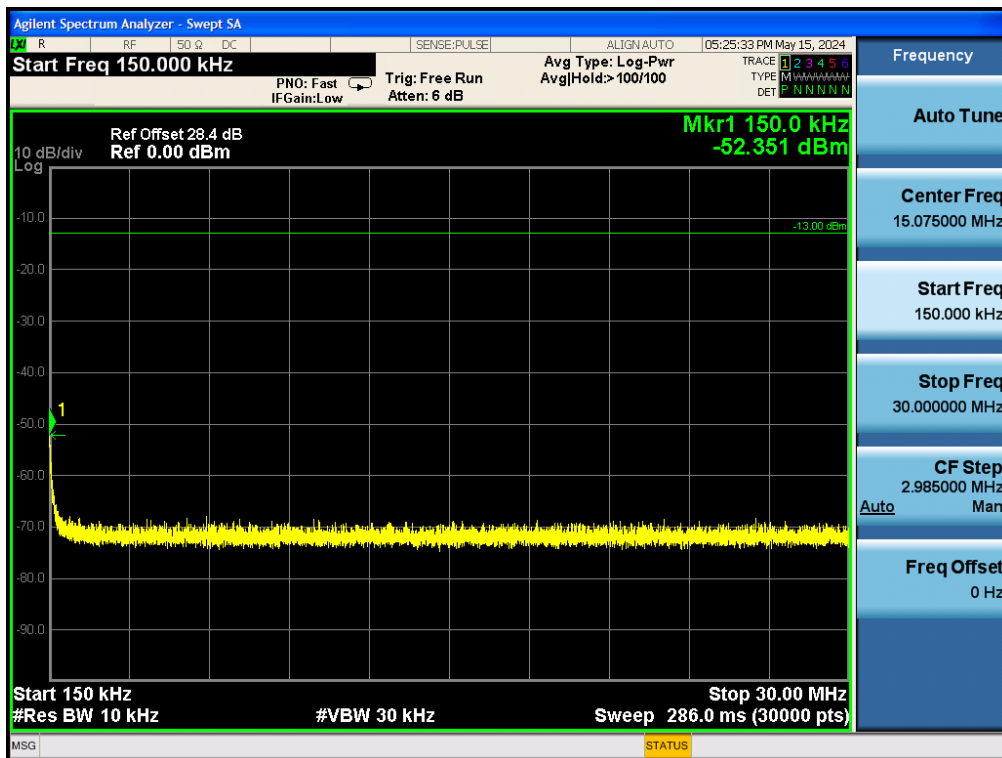


**UNWANTED EMISSIONS AT TOP CHANNEL**  
**(439.975MHz with 12.5 kHz channel separation)-5W**

Top channel, 9kHz-150kHz

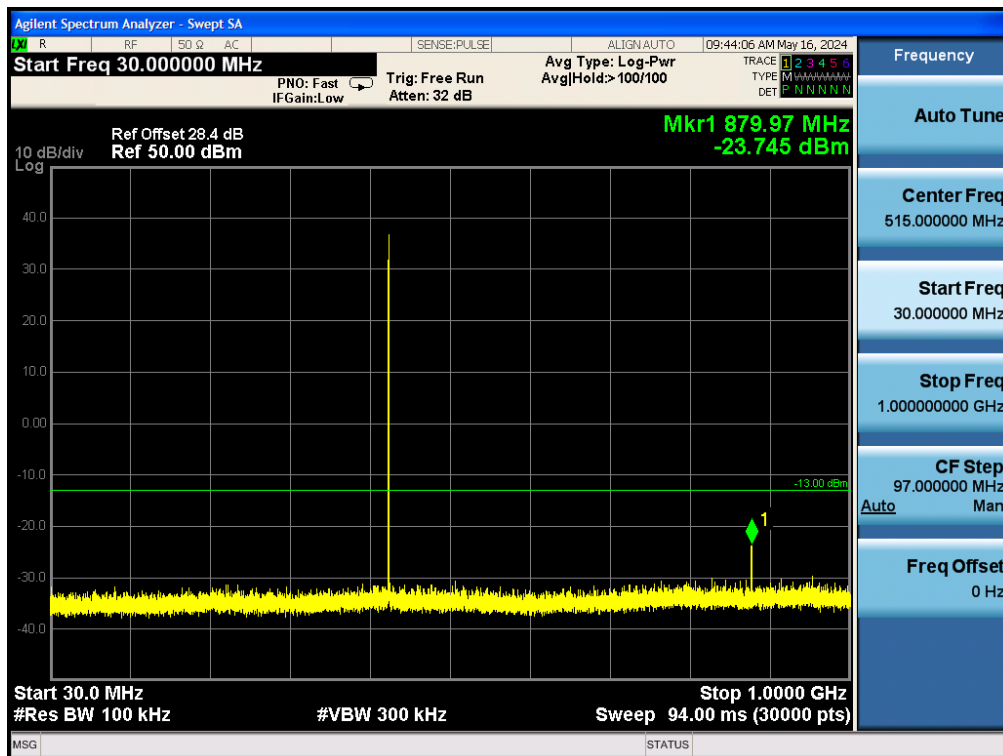


Top channel, 150kHz-30MHz

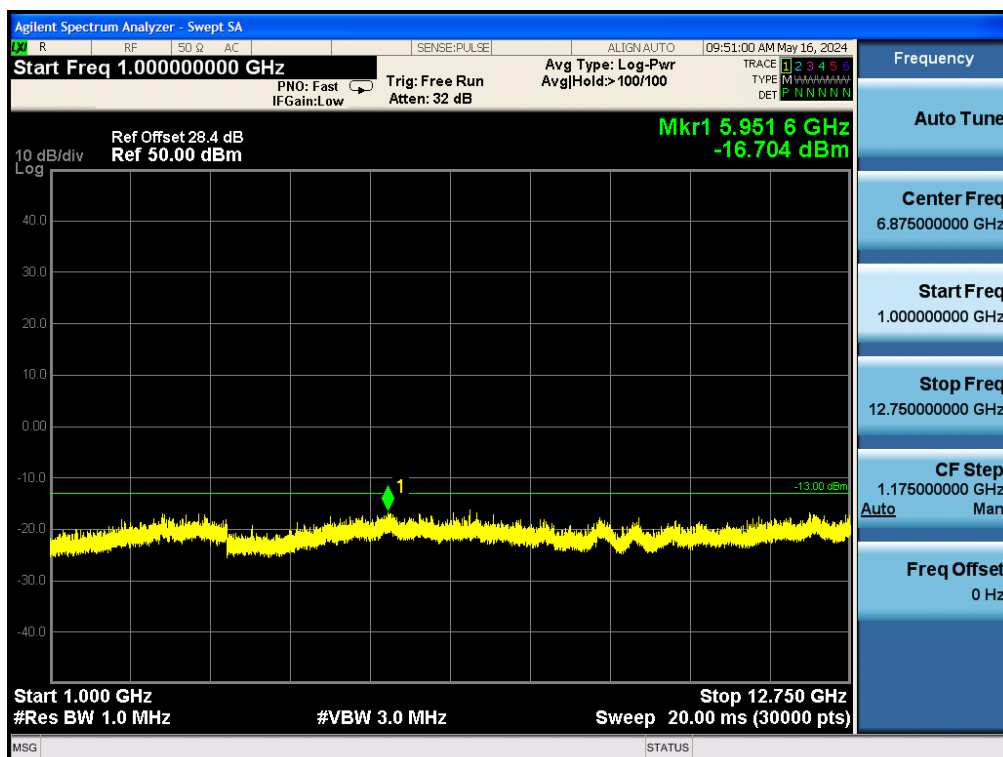


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Top channel, 30MHz-1GHz



Top channel, 1GHz-12.75GHz



Note: All power was tested, but only data with the highest power were recorded in this section

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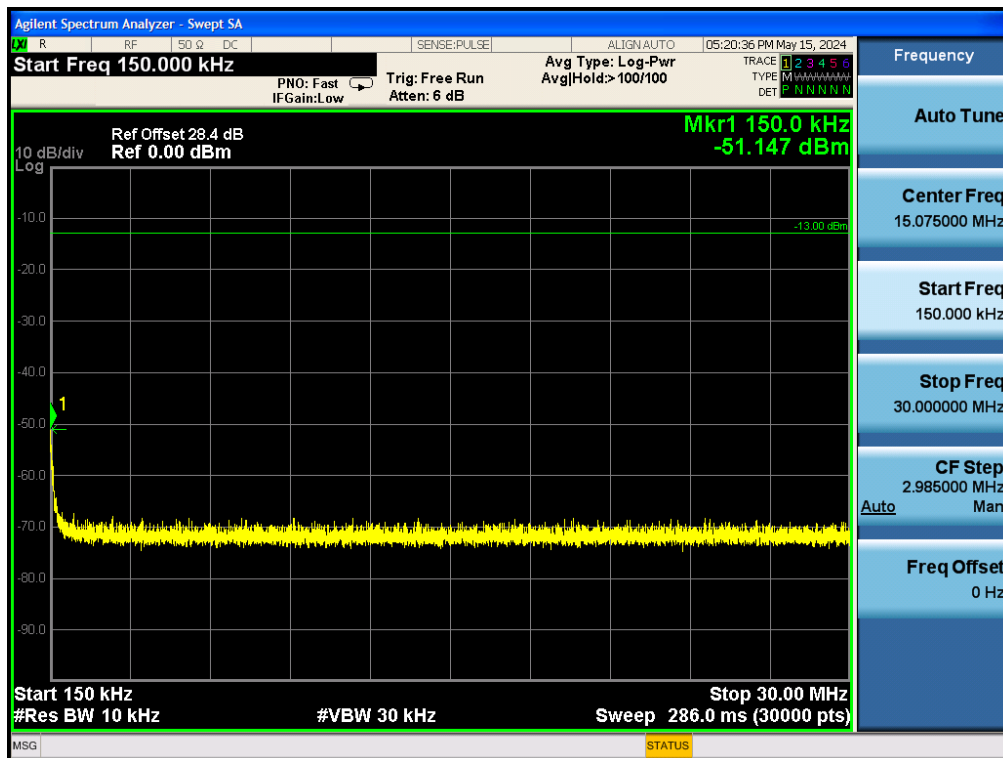
## UNWANTED EMISSIONS AT BOTTOM CHANNEL

(144.025MHz with 25 KHz channel separation)-5W

Low channel, 9KHz-150KHz



Low channel, 150KHz-30MHz



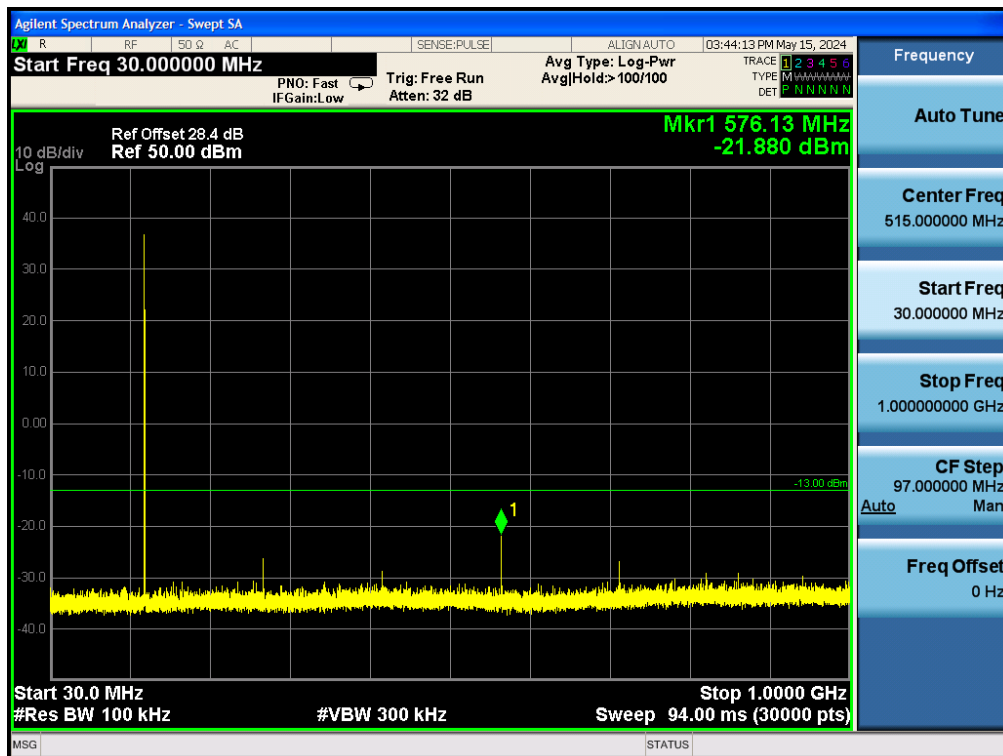
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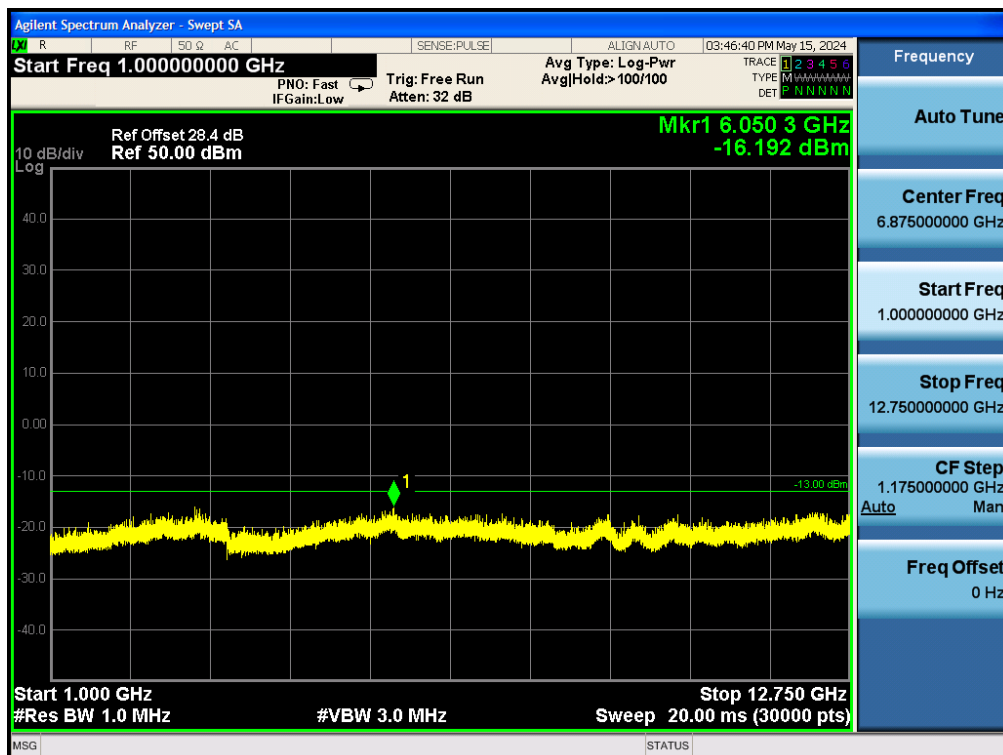
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### Low channel, 30MHz-1GHz



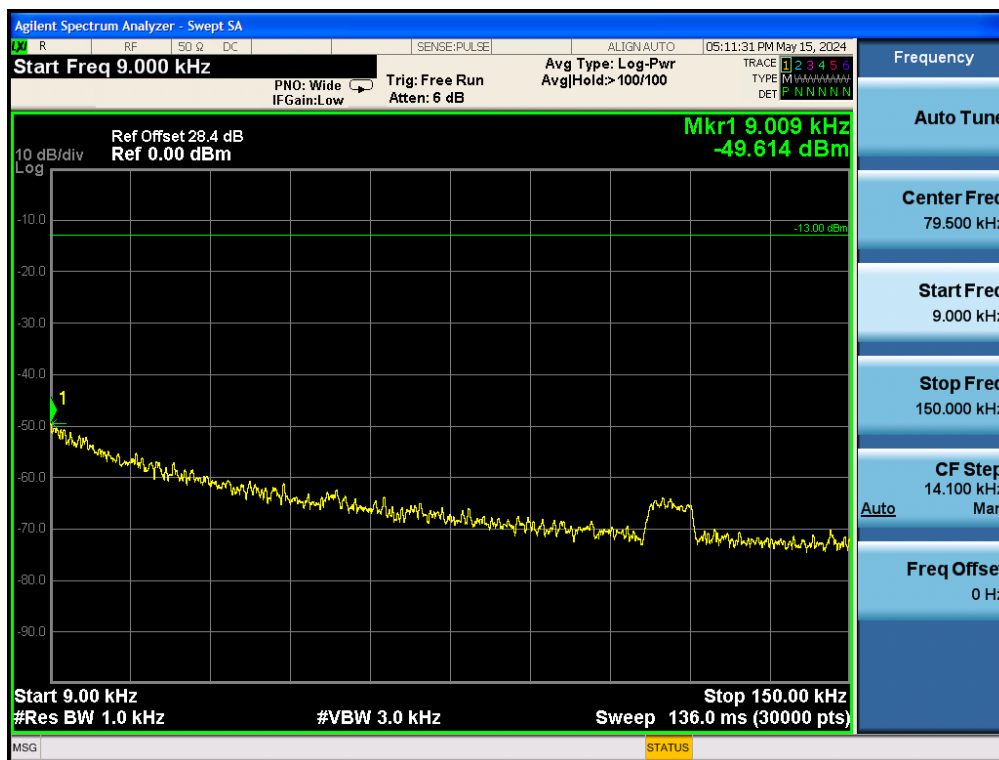
### Low channel, 1GHz-12.75GHz



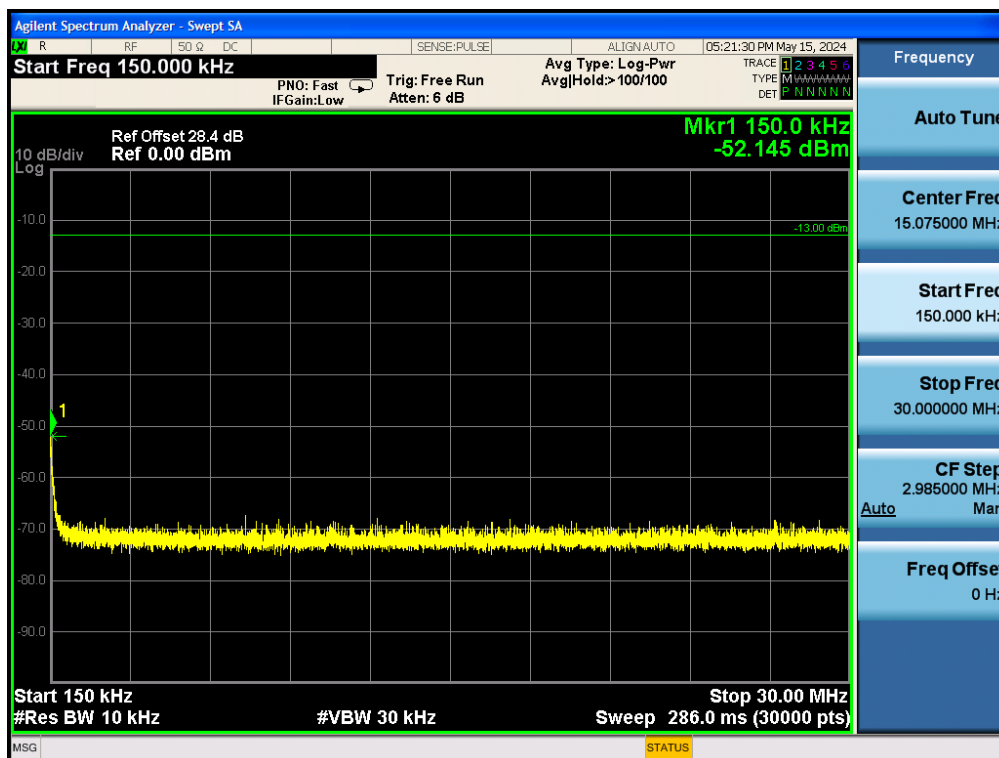
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**UNWANTED EMISSIONS AT MIDDLE CHANNEL**  
**(145.000MHz with 25 kHz channel separation)-5W**

Middle channel, 9kHz-150kHz



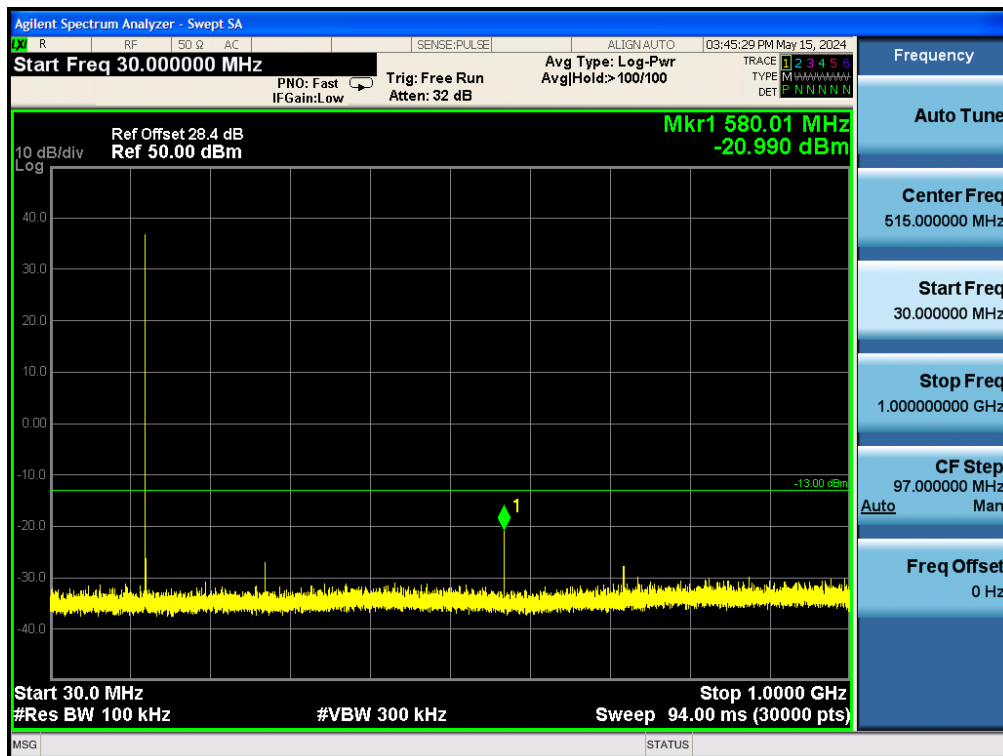
Middle channel, 150kHz-30MHz



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Middle channel, 30MHz-1GHz



Middle channel, 1GHz-12.75GHz



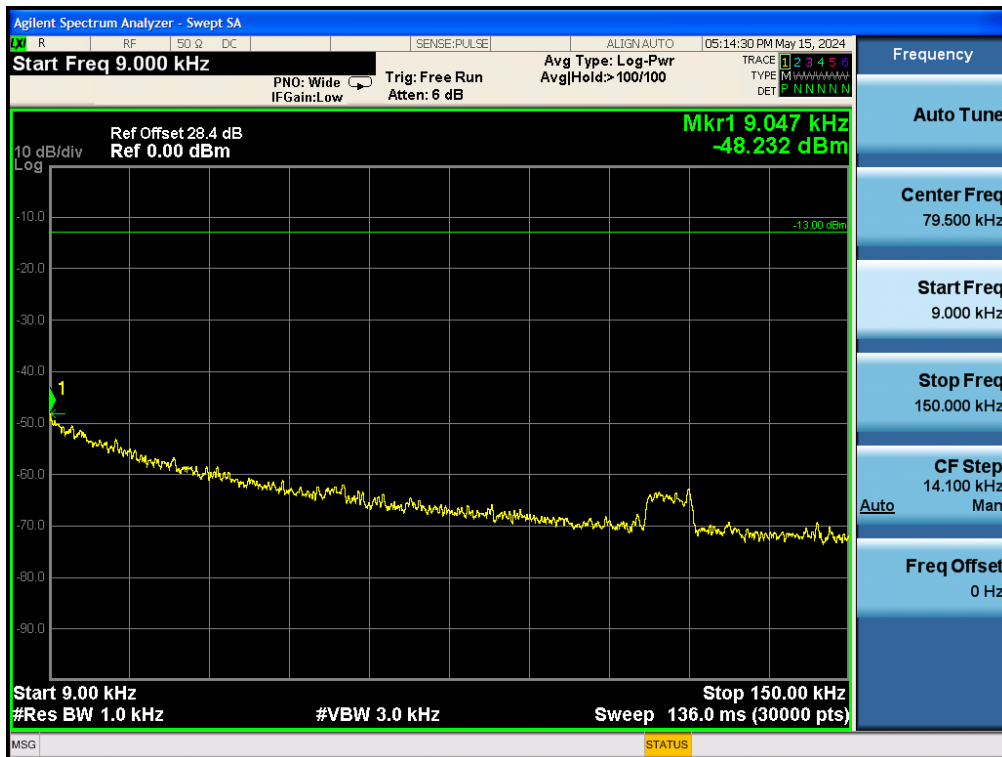
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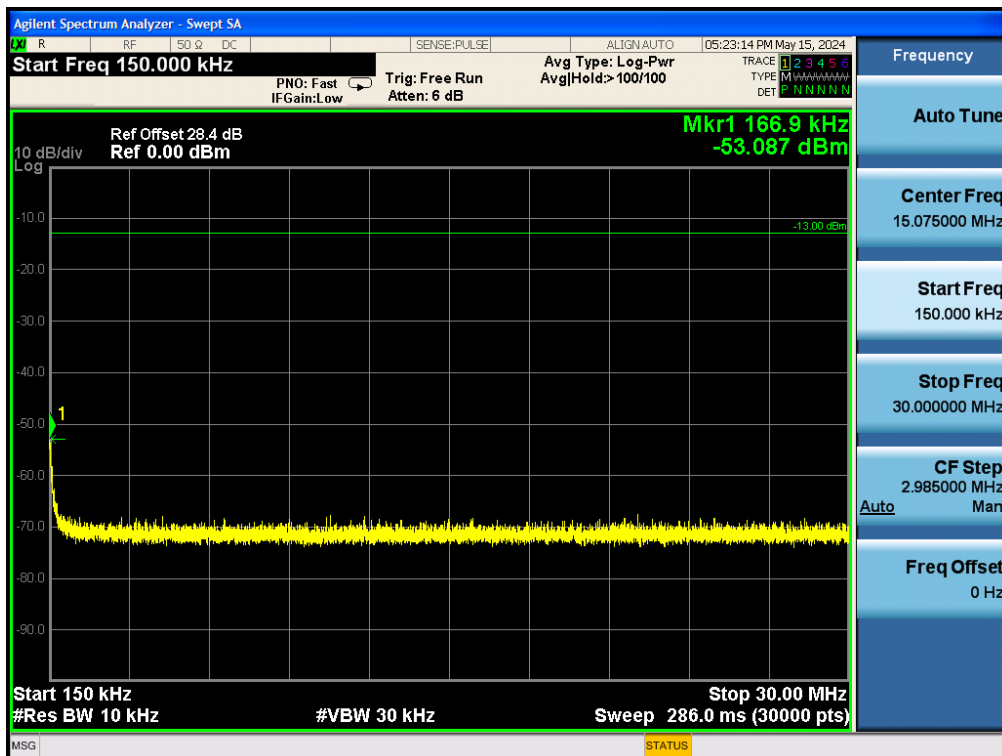


**UNWANTED EMISSIONS AT TOP CHANNEL**  
**(145.975MHz with 25 kHz channel separation)-5W**

Top channel, 9kHz-150kHz

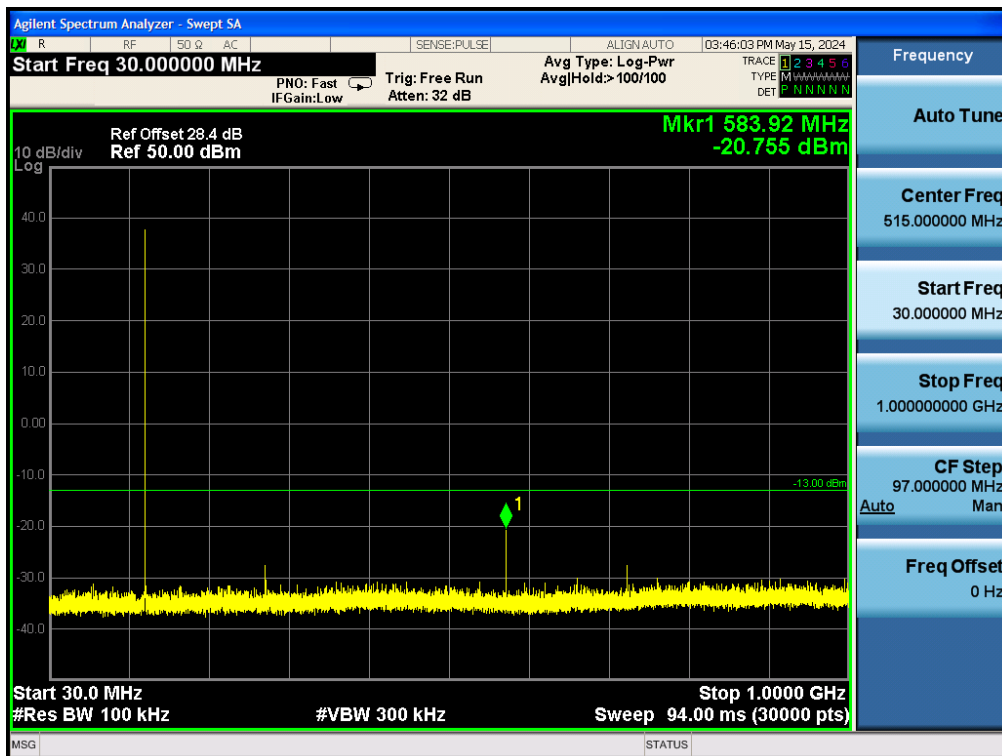


Top channel, 150kHz-30MHz

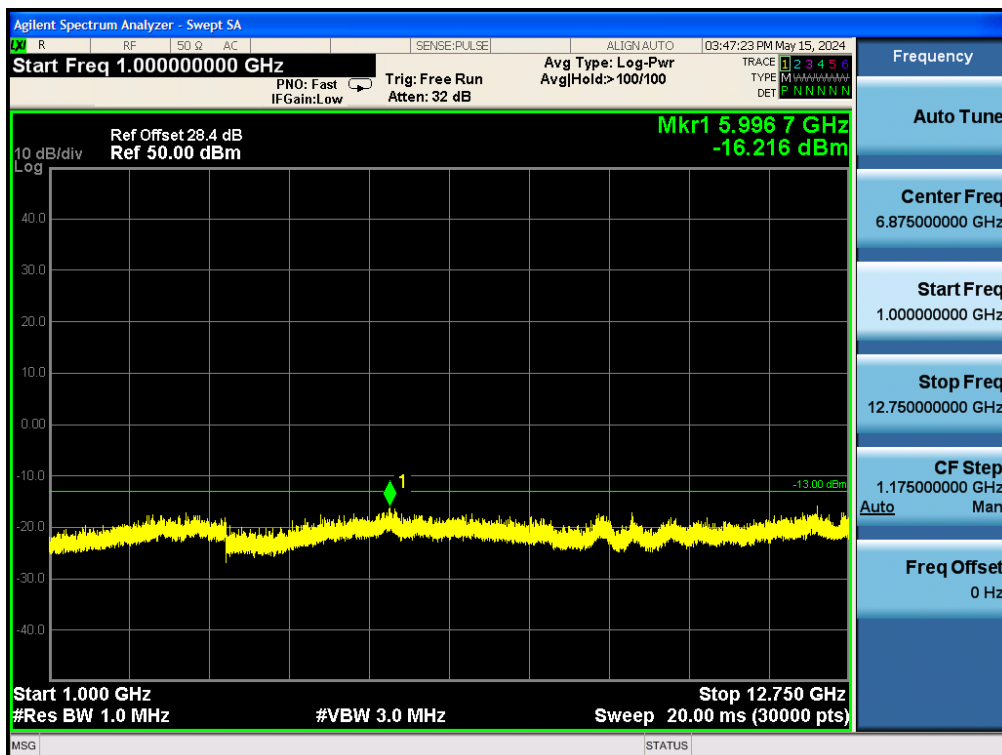


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Top channel, 30MHz-1GHz



Top channel, 1GHz-12.75GHz



Note: All power was tested, but only data with the highest power were recorded in this section

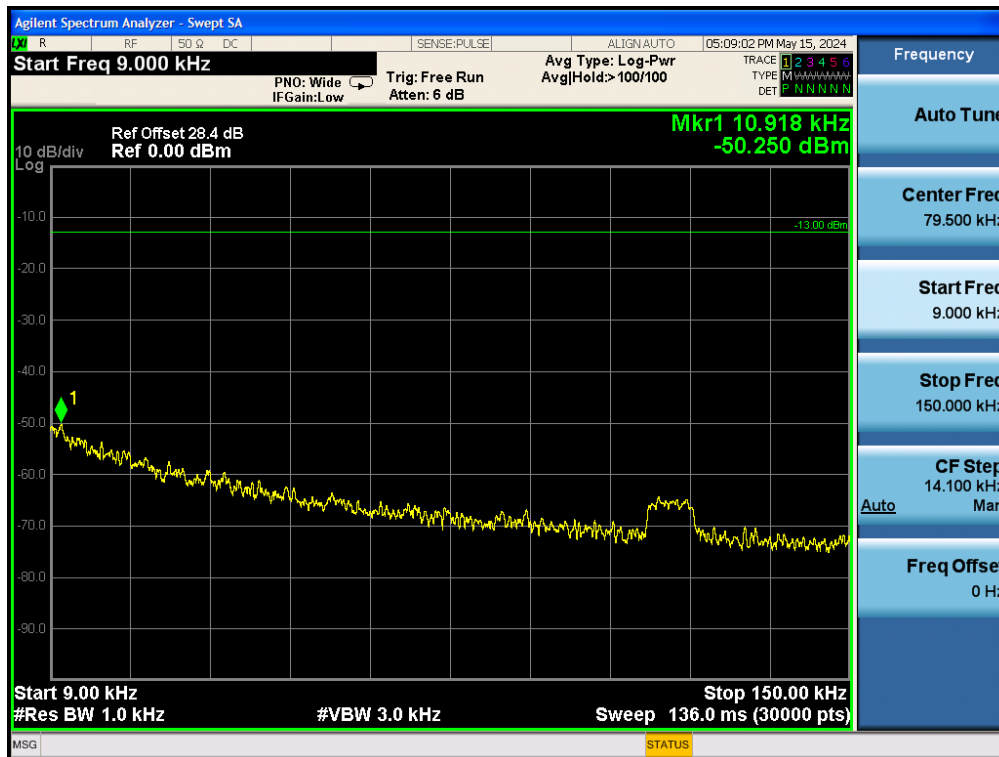
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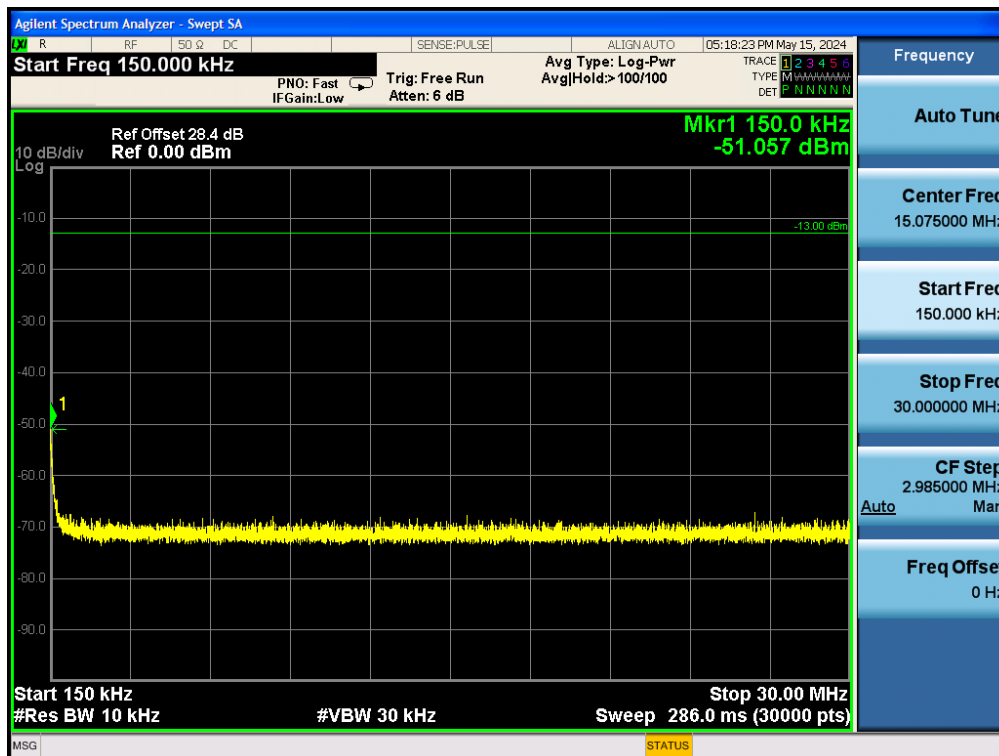


**UNWANTED EMISSIONS AT BOTTOM CHANNEL**  
**(430.025MHz with 25 kHz channel separation)-5W**

Bottom channel, 9kHz-150kHz

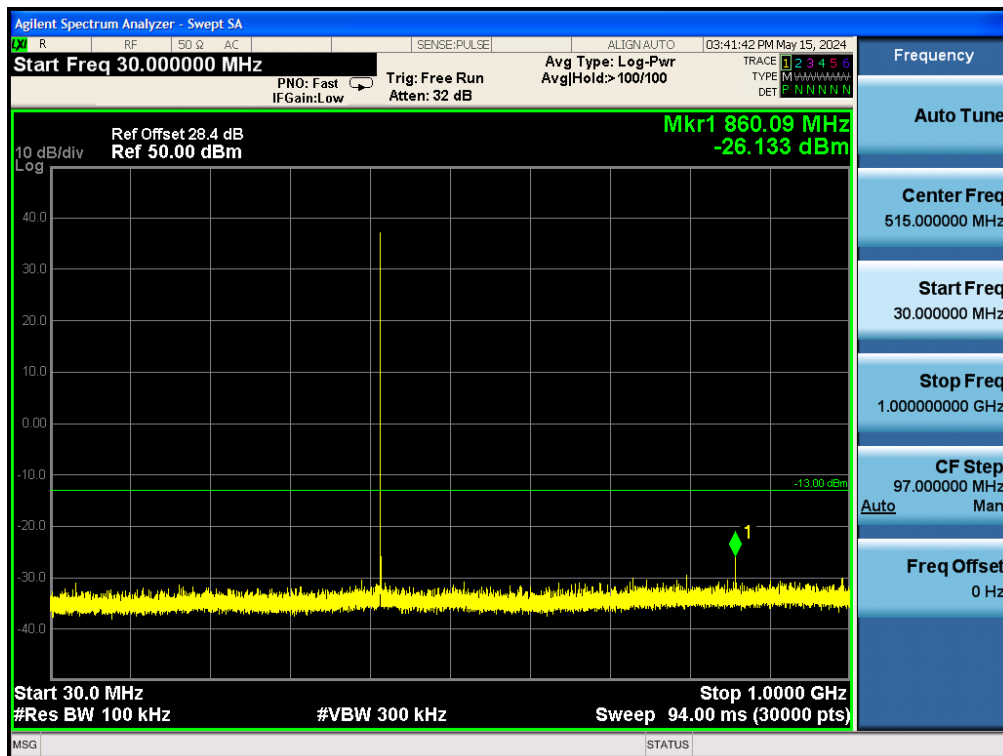


Bottom channel, 150kHz-30MHz

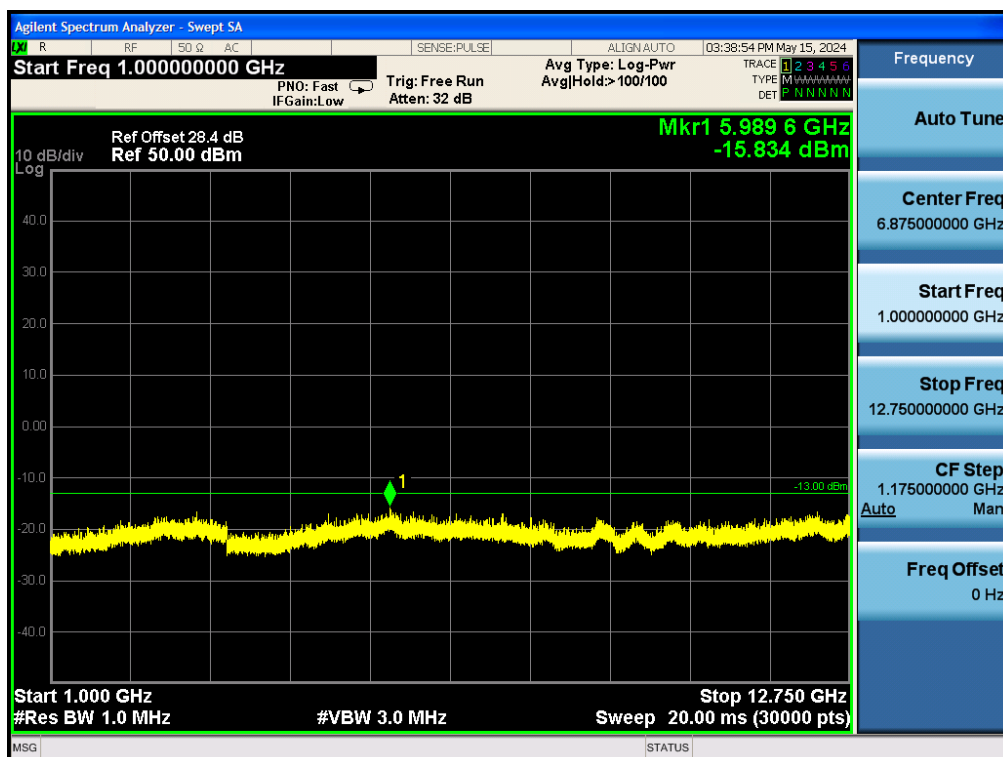


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### Bottom channel, 30MHz-1GHz



### Bottom channel, 1GHz-12.75GHz



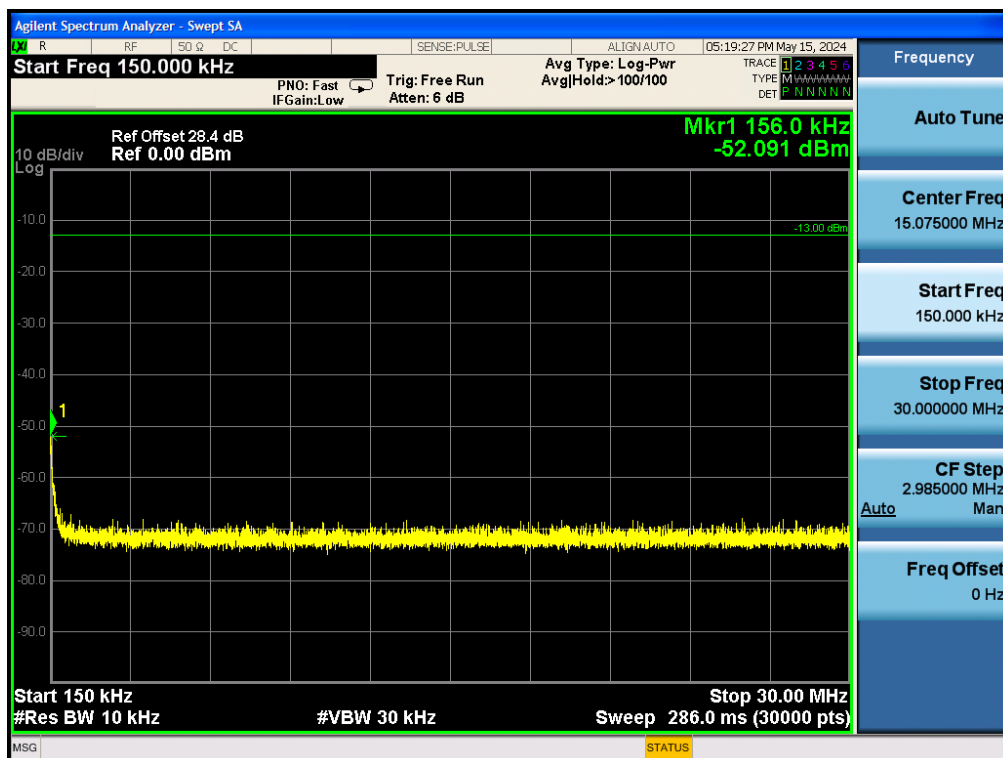
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**UNWANTED EMISSIONS AT MIDDLE CHANNEL**  
**(435.000MHz with 25 kHz channel separation)-5W**

Middle channel, 9kHz-150kHz



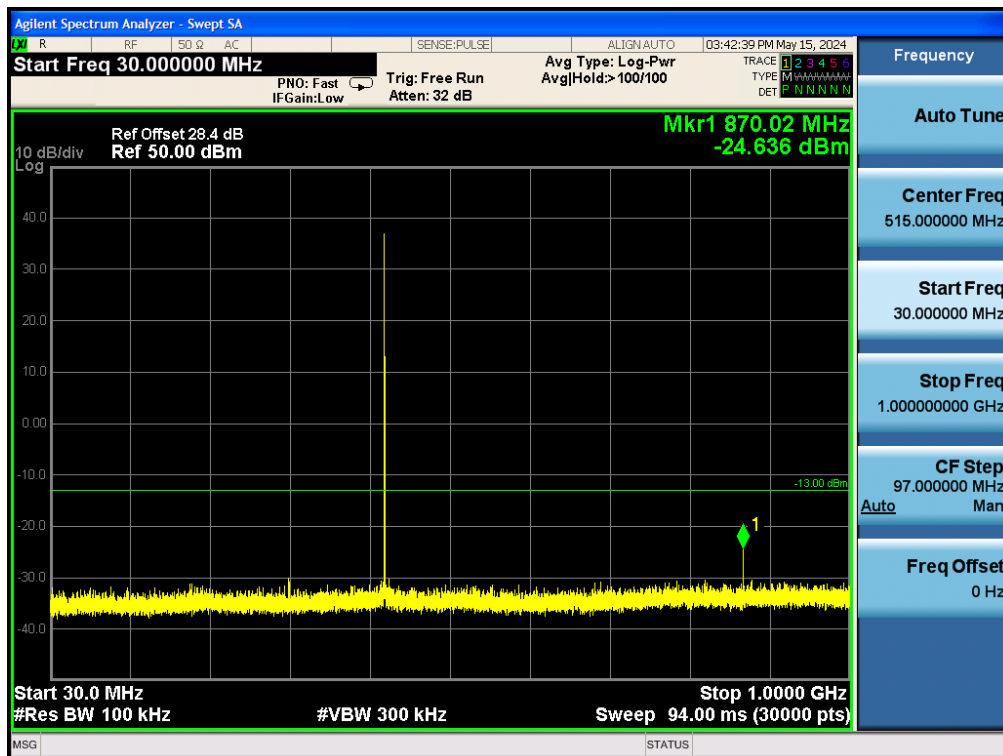
Middle channel, 150kHz-30MHz



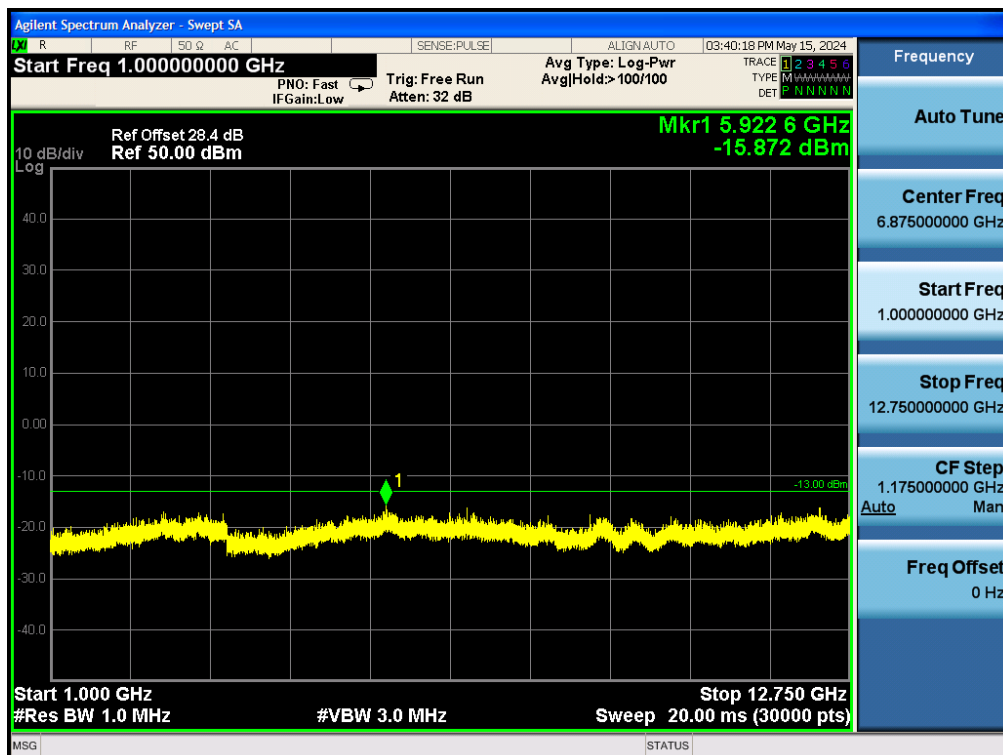
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Middle channel, 30MHz-1GHz



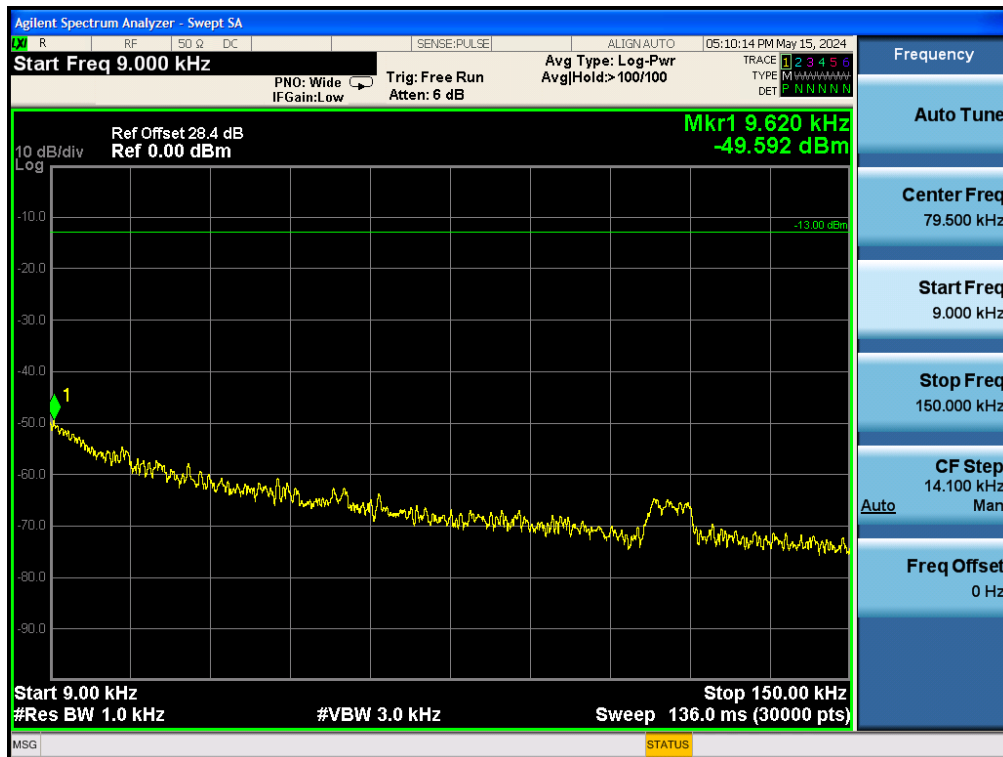
Middle channel, 1GHz-12.75GHz



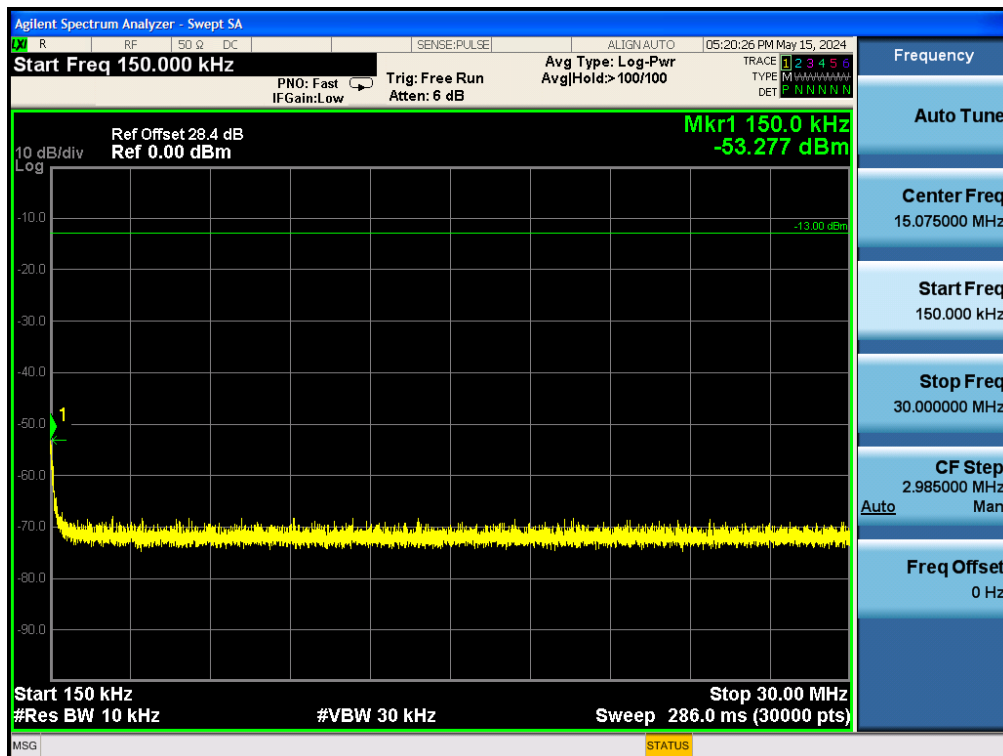
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**UNWANTED EMISSIONS AT TOP CHANNEL**  
**(439.975MHz with 25 kHz channel separation)-5W**

Top channel, 9kHz-150kHz



Top channel, 150kHz-30MHz

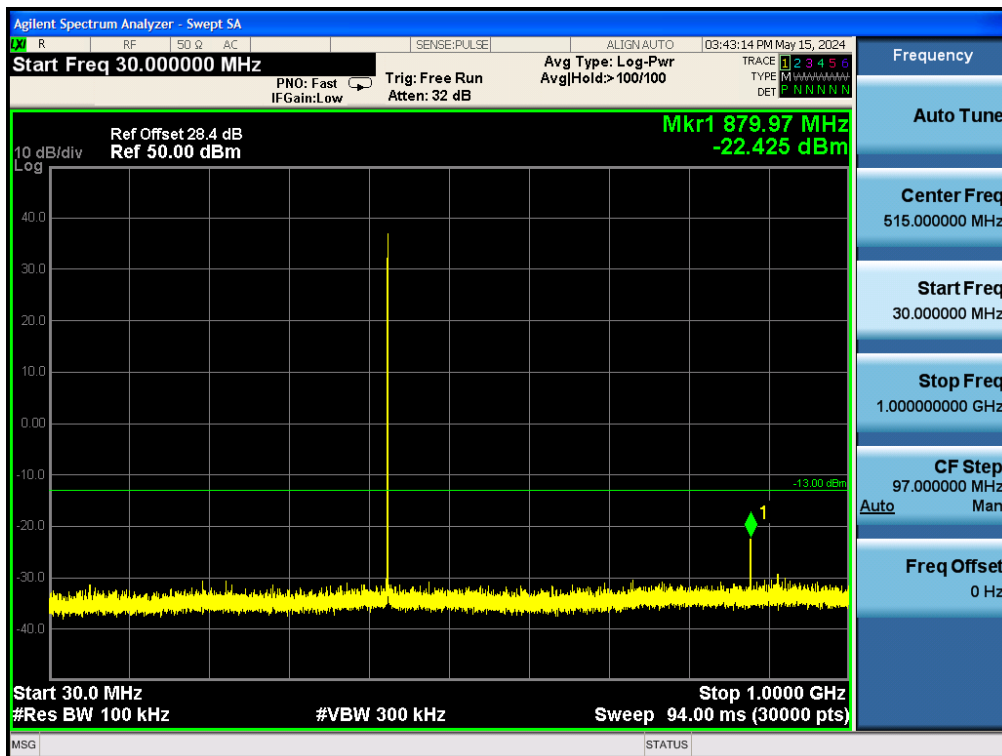


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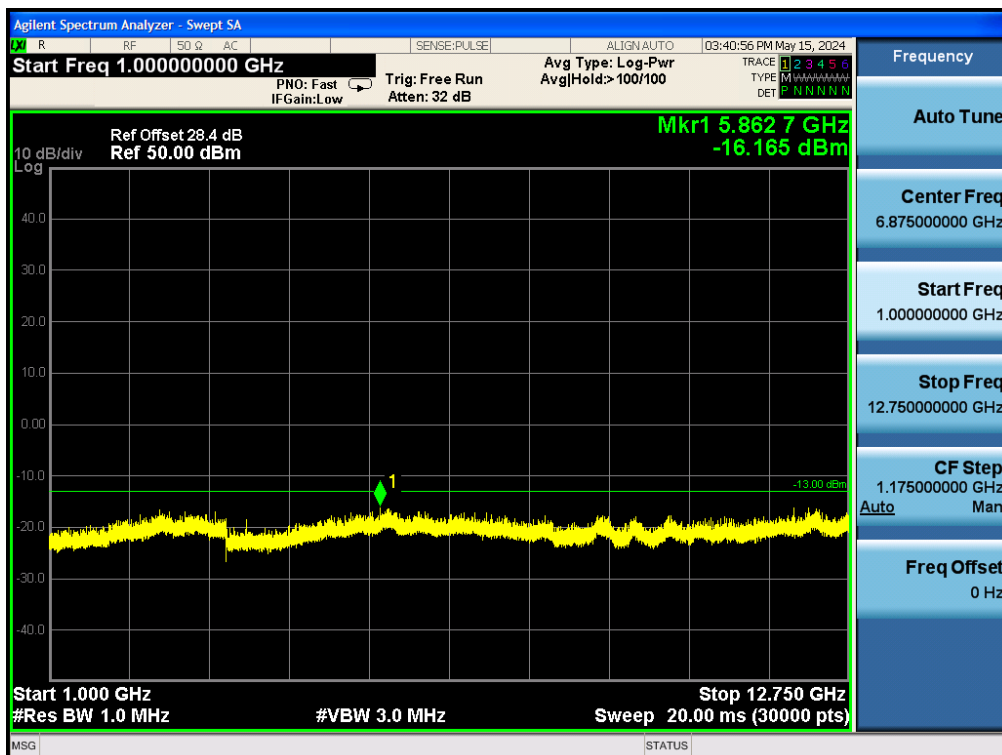
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Top channel, 30MHz-1GHz



Top channel, 1GHz-12.75GHz



Note: All power was tested, but only data with the highest power were recorded in this section

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### 6.3 CONDUCTED SPURIOUS EMISSION IN RECEIVE OR TRANSIMIT STANDBY MODE

#### TEST LIMIT

The power of any spurious emission, occurring outside the exclusion band centred on the frequency on which the transmitter is intended to operate, shall not exceed the values given in tables 6 and 8 with the transmitter operating and tables 7 and 9 with the transmitter in standby mode.

**Table 7: Antenna port limits in transmit standby mode**

Frequency Range	Test Limits	Remarks
0,15 MHz to 1 000 MHz	-57 dBm	
> 1 000 MHz	-47 dBm	(see note)
NOTE: For measurement at frequencies greater than 40 GHz no test limits are specified.		

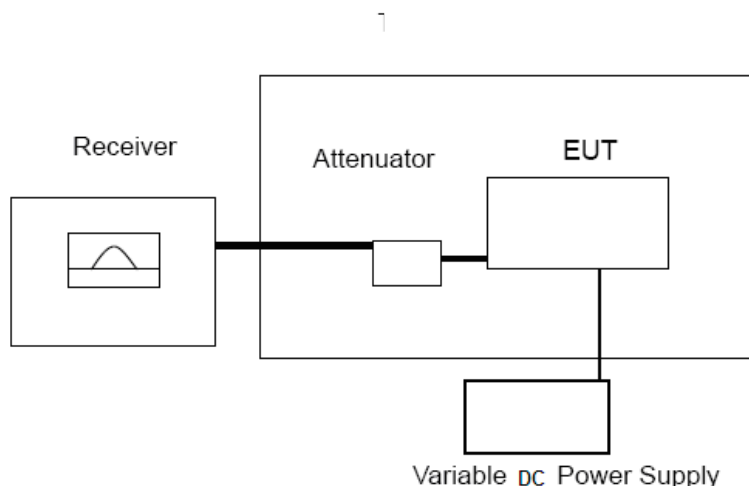
**Table 3: Reference bandwidths to be used for the measurement of spurious emissions**

Frequency range	RBW
9 to 150 kHz	1 kHz
150 kHz to 30 MHz	10 kHz
30 MHz to 1 GHz	100 kHz
Above 1 GHz	1 MHz

**Table 4: Transmit exclusion bands for the measurement of spurious emissions**

Operating freq	Bn minimum	Tx exclusion band
Below 30 MHz	4 kHz	10 kHz
30 MHz to 1 GHz	25 kHz	62,5 kHz
1 GHz to 26 GHz	100 kHz	250 kHz
Above 26 GHz	1 MHz	2,5 MHz

#### TEST CONFIGURATION



#### TEST PROCEDURE

1. Please refer to ETSI EN 301 783(V2 1 1) clause 4.2 for test condition.
  2. Please refer to ETSI EN 301 783(V2 1 1) Sub-clause 5.2.2.4 for the measurement method.
- Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" issued by the AGC, shall be invalid and not applicable for the approval of the product. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

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**Note:**

3. The EUT have been tested under DC 7.4V.
4. Only result the worst case in this part.

**TEST RESULT-UHF-12.5KHz&25KHz-5W**

Frequency (MHz)	Test result (dBm)	Limit (dBm)	Margin (dB)
9KHz - 1 GHz	--	--	At least 20 dB down than the limit
1 GHz - 12.75 GHz	--	--	

**Remark:**

- (1) Margin (dBm) = Limit-test result
- (2) Measuring frequencies from 9KHz - 12.75 GHz.
- (3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the power is too small to be measured.

**TEST RESULT-VHF-12.5KHz&25KHz-5W**

Frequency (MHz)	Test result (dBm)	Limit (dBm)	Margin (dB)
9KHz - 1 GHz	--	--	At least 20 dB down than the limit
1 GHz - 12.75 GHz	--	--	

**Remark:**

- (1) Margin (dBm) = Limit-test result
- (2) Measuring frequencies from 9KHz - 12.75 GHz.
- (3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the power is too small to be measured.

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## 6.4 RADIATED SPURIOUS EMISSION ENCLOSURE PORT IN TRANSMIT MODE

### TEST LIMIT

The power of any spurious emission, occurring outside the exclusion band centred on the frequency on which the transmitter is intended to operate, shall not exceed the values given in tables 6 and 8 with the transmitter operating and tables 7 and 9 with the transmitter in standby mode.

**Table 8: Enclosure port limits in transmit mode**

Frequency range or operating mode	Test Limits	Remarks
Mobile SSB equipment	-43 dBc	
Below or equal to 30 MHz	$-(43 + 10 \times \log(\text{PEP}))$ or -50 dBc whichever is higher	
Above 30 MHz	$-(43 + 10 \times \log(\text{PEP}))$ or -70 dBc whichever is higher	(see note)
NOTE: For measurement at frequencies greater than 40 GHz no test limits are specified.		

**Table 3: Reference bandwidths to be used for the measurement of spurious emissions**

Frequency range	RBW
9 to 150 kHz	1 kHz
150 kHz to 30 MHz	10 kHz
30 MHz to 1 GHz	100 kHz
Above 1 GHz	1 MHz

**Table 4: Transmit exclusion bands for the measurement of spurious emissions**

Operating freq	Bn minimum	Tx exclusion band
Below 30 MHz	4 kHz	10 kHz
30 MHz to 1 GHz	25 kHz	62,5 kHz
1 GHz to 26 GHz	100 kHz	250 kHz
Above 26 GHz	1 MHz	2,5 MHz

For F3E modulation the rated output power is (VHF/UHF: 5W),

$-(43+10 \times \log(\text{PEP})) = -49.99\text{dBc}$  (5W) –VHF/UHF

, refer to table 8, the limit for F3E modulation should be:

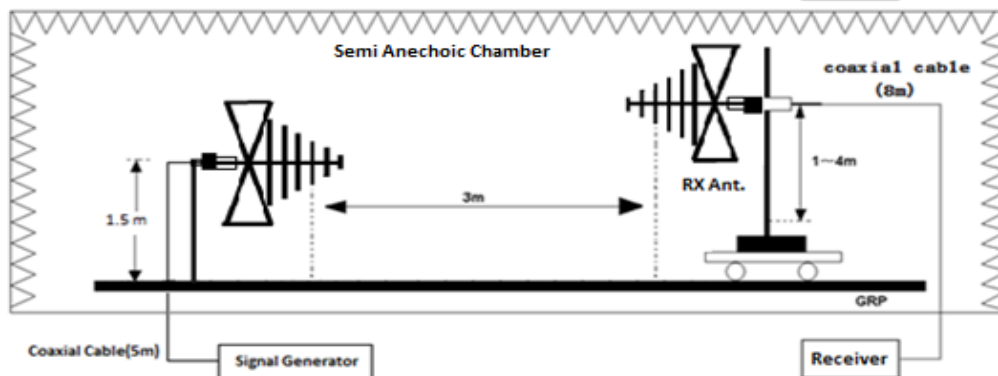
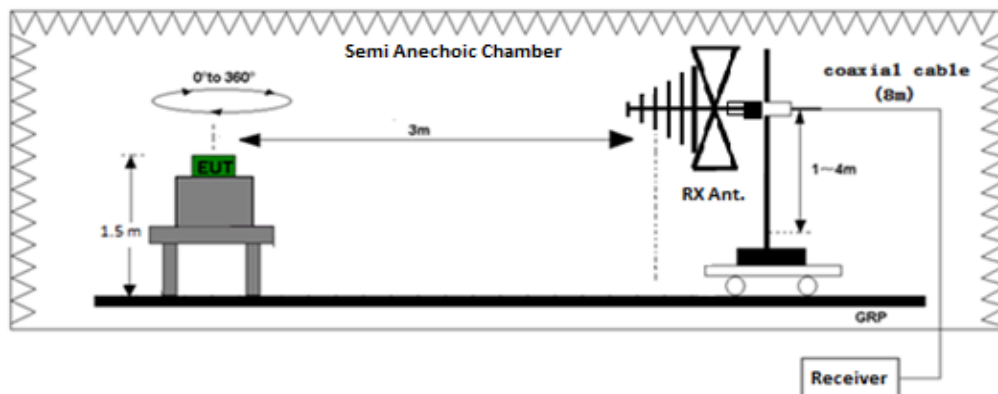
**-49.99dBc (-13dBm) below 30MHz, and -49.99dBc (-13dBm) above 30MHz---(5W)-VHF/UHF**

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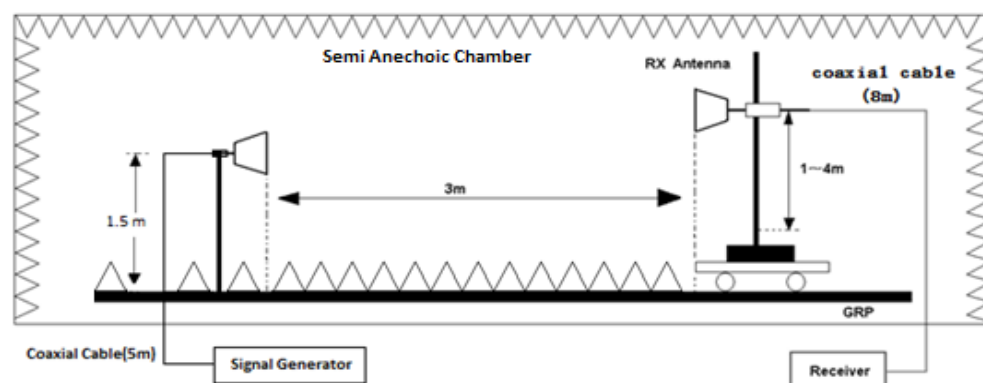
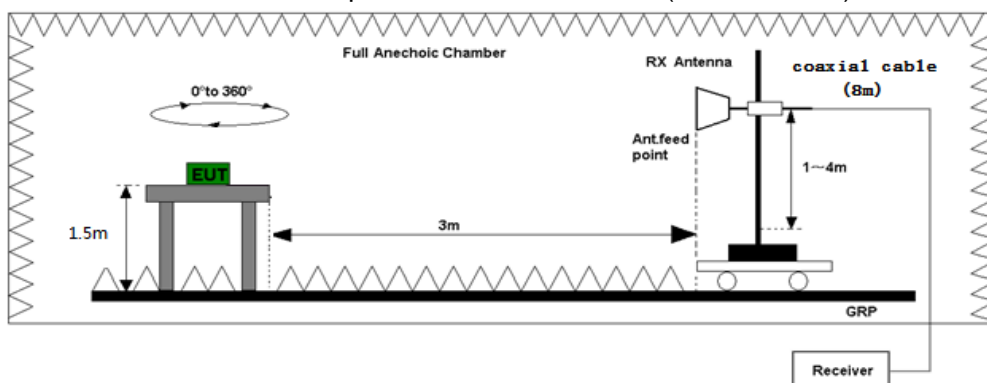
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Test set-up of radiated disturbance (30MHz-1GHz)



Test set-up of radiated disturbance (above 1GHz)

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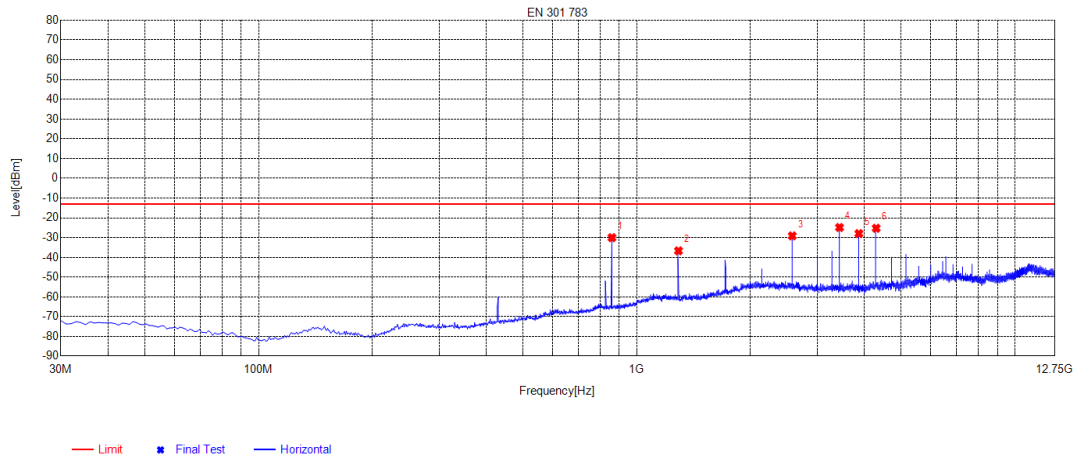
1. Please refer to ETSI EN 301 783(V2.1.1), clause 4.2 for test condition.
2. Please refer to ETSI EN 301 783(V2.1.1) Sub-clause 5.2.2.2 for the measurement method.

### TEST RESULT

**Note:** 1. The fundamental wave has been filtered by trap filter.  
2. The EUT have been tested under DC 7.4V.

### UHF:

#### The Bottom channel for 12.5 kHz Channel Separation @Transmitting Mode-Horizontal-5W

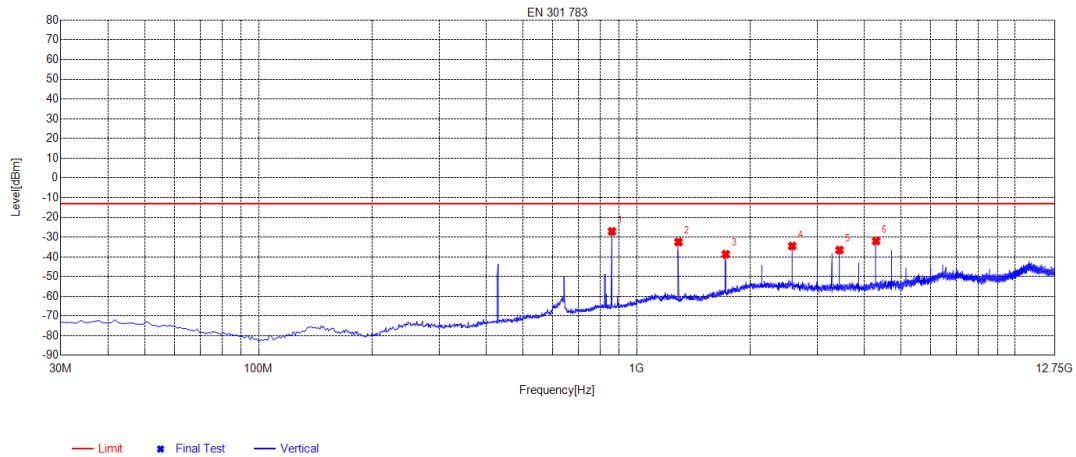


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	860.32	-67.24	-30.04	-13.00	17.04	37.20	307	Horizontal
2	1290.254	-32.59	-36.69	-13.00	23.69	-4.10	93	Horizontal
3	2580.5331	-31.49	-29.12	-13.00	16.12	2.37	9	Horizontal
4	3440.7191	-27.07	-24.87	-13.00	11.87	2.20	307	Horizontal
5	3870.8121	-30.41	-27.96	-13.00	14.96	2.45	1	Horizontal
6	4300.9051	-28.94	-25.28	-13.00	12.28	3.66	47	Horizontal

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# The Bottom channel for 12.5 kHz Channel Separation @Transmitting Mode- Vertical-5W



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	860.32	-64.29	-27.09	-13.00	14.09	37.20	359	Vertical
2	1290.254	-28.37	-32.47	-13.00	19.47	-4.10	214	Vertical
3	1720.347	-37.28	-38.70	-13.00	25.70	-1.42	297	Vertical
4	2580.5331	-36.88	-34.51	-13.00	21.51	2.37	315	Vertical
5	3440.7191	-38.76	-36.56	-13.00	23.56	2.20	261	Vertical
6	4300.9051	-35.68	-32.02	-13.00	19.02	3.66	315	Vertical

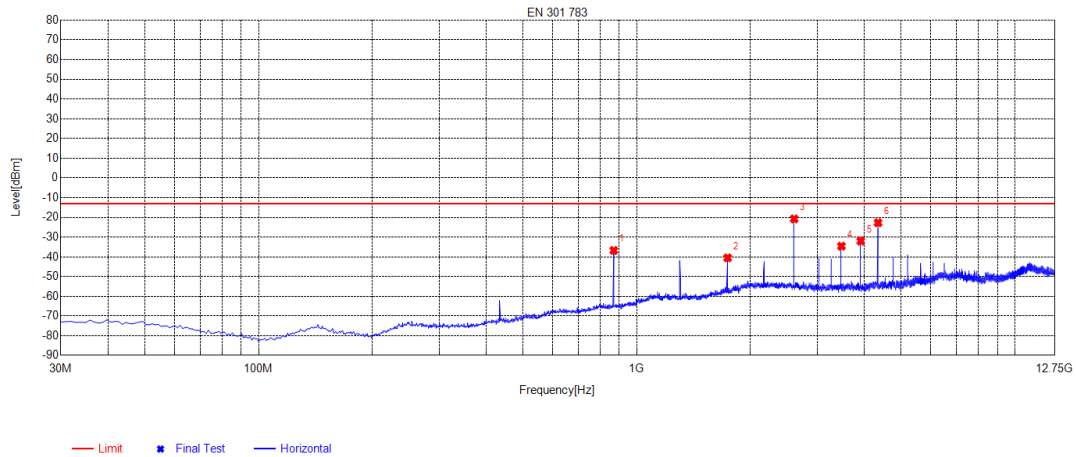
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# The Middle channel for 12.5 kHz Channel Separation @Transmitting Mode-Horizontal-5W



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	870.02	-74.03	-36.75	-13.00	23.75	37.28	313	Horizontal
2	1740.324	-39.33	-40.50	-13.00	27.50	-1.17	158	Horizontal
3	2609.911	-23.07	-20.76	-13.00	7.76	2.31	358	Horizontal
4	3480.6731	-36.85	-34.59	-13.00	21.59	2.26	54	Horizontal
5	3915.4665	-34.43	-31.97	-13.00	18.97	2.46	92	Horizontal
6	4350.26	-26.56	-22.71	-13.00	9.71	3.85	285	Horizontal

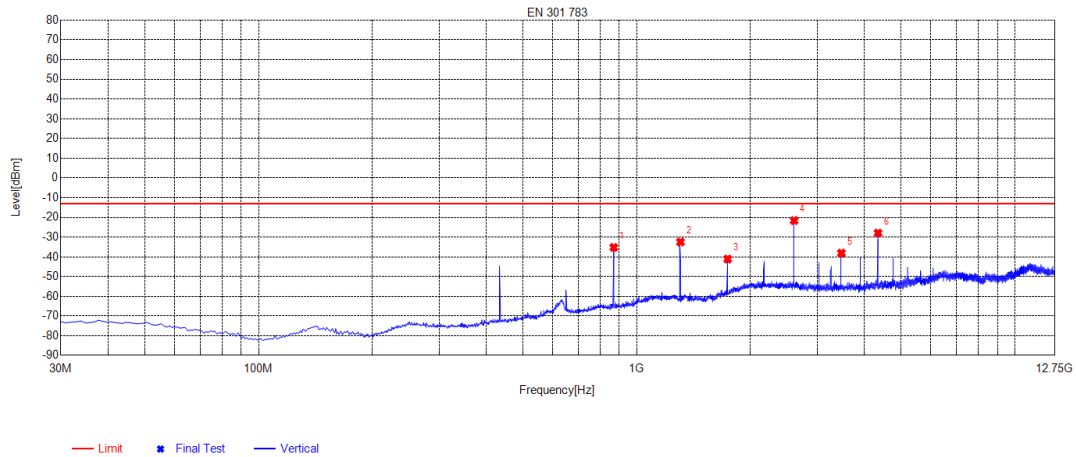
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### The Middle channel for 12.5 kHz Channel Separation @Transmitting Mode- Vertical-5W



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	870.02	-72.52	-35.24	-13.00	22.24	37.28	359	Vertical
2	1305.5306	-28.34	-32.44	-13.00	19.44	-4.10	173	Vertical
3	1740.324	-39.95	-41.12	-13.00	28.12	-1.17	277	Vertical
4	2609.911	-23.90	-21.59	-13.00	8.59	2.31	285	Vertical
5	3480.6731	-40.37	-38.11	-13.00	25.11	2.26	257	Vertical
6	4350.26	-31.79	-27.94	-13.00	14.94	3.85	303	Vertical

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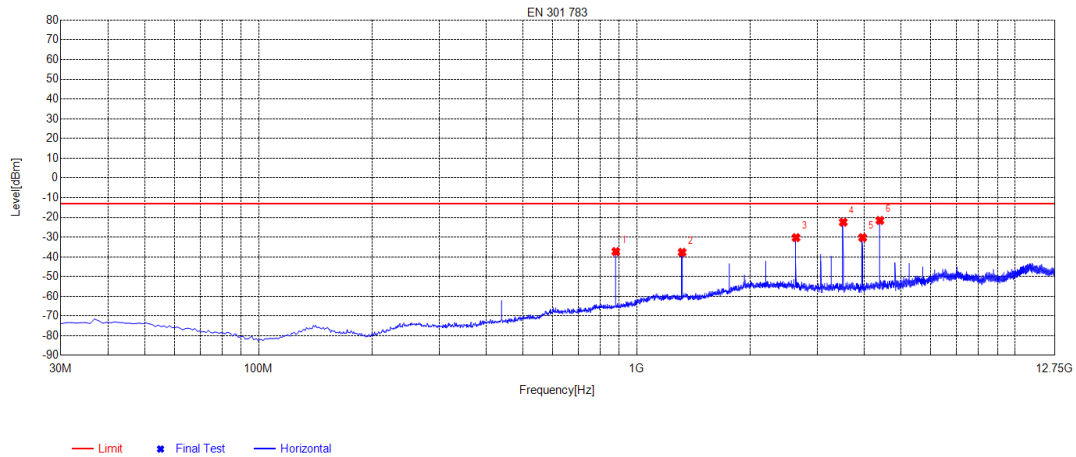
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# The Top channel for 12.5 kHz Channel Separation @Transmitting Mode-Horizontal-5W



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	880.69	-74.70	-37.33	-13.00	24.33	37.37	1	Horizontal
2	1319.632	-33.62	-37.72	-13.00	24.72	-4.10	57	Horizontal
3	2640.464	-32.51	-30.26	-13.00	17.26	2.25	190	Horizontal
4	3519.4519	-24.74	-22.44	-13.00	9.44	2.30	113	Horizontal
5	3960.121	-32.72	-30.24	-13.00	17.24	2.48	39	Horizontal
6	4399.615	-25.60	-21.56	-13.00	8.56	4.04	330	Horizontal

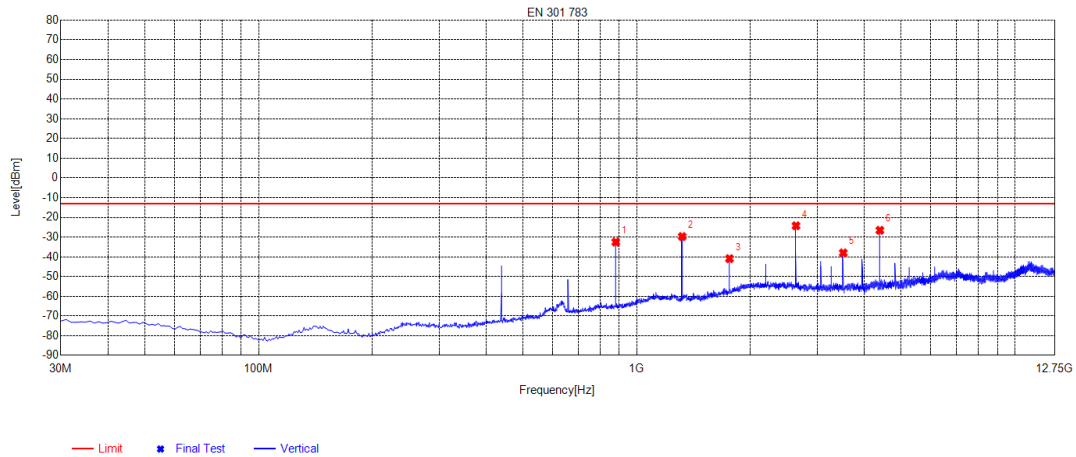
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# The Top channel for 12.5 kHz Channel Separation @Transmitting Mode- Vertical-5W



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	880.69	-69.88	-32.51	-13.00	19.51	37.37	359	Vertical
2	1319.632	-25.63	-29.73	-13.00	16.73	-4.10	173	Vertical
3	1760.301	-39.99	-40.92	-13.00	27.92	-0.93	313	Vertical
4	2640.464	-26.50	-24.25	-13.00	11.25	2.25	0	Vertical
5	3520.6271	-40.29	-37.99	-13.00	24.99	2.30	255	Vertical
6	4399.615	-30.58	-26.54	-13.00	13.54	4.04	313	Vertical

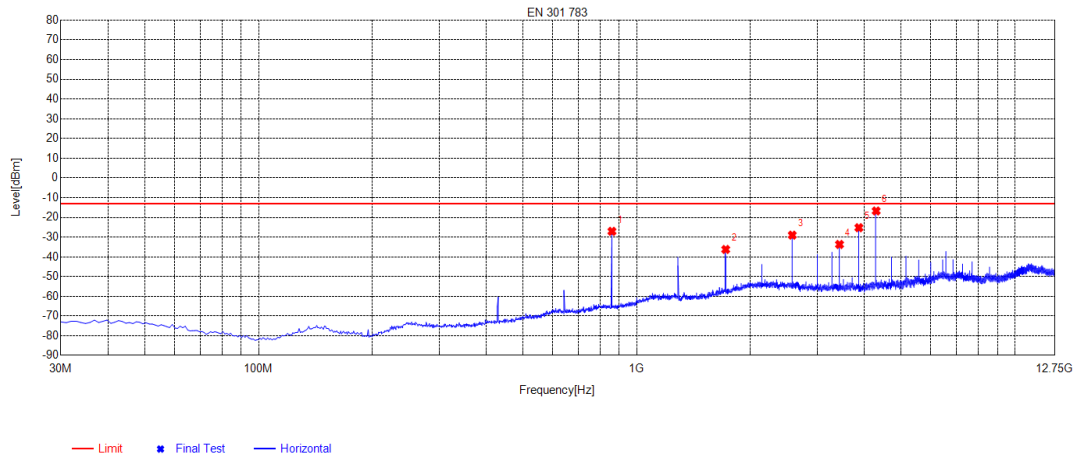
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# The Bottom channel for 25 kHz Channel Separation @Transmitting Mode-Horizontal-5W



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	860.32	-64.26	-27.06	-13.00	14.06	37.20	303	Horizontal
2	1720.347	-34.82	-36.24	-13.00	23.24	-1.42	311	Horizontal
3	2580.5331	-31.36	-28.99	-13.00	15.99	2.37	360	Horizontal
4	3440.7191	-35.90	-33.70	-13.00	20.70	2.20	104	Horizontal
5	3870.8121	-27.67	-25.22	-13.00	12.22	2.45	243	Horizontal
6	4300.9051	-20.40	-16.74	-13.00	3.74	3.66	28	Horizontal

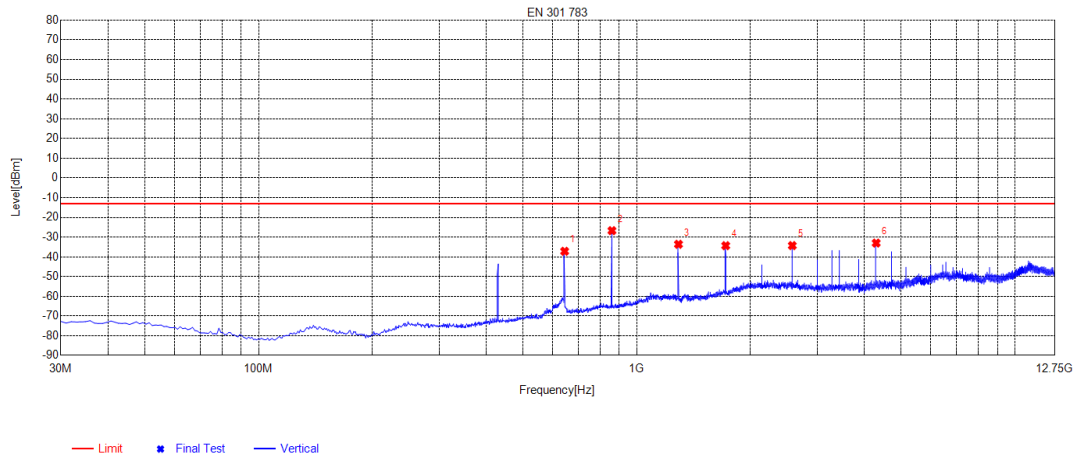
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### The Bottom channel for 25 kHz Channel Separation @Transmitting Mode- Vertical-5W



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	644.98	-71.91	-37.18	-13.00	24.18	34.73	302	Vertical
2	860.32	-63.92	-26.72	-13.00	13.72	37.20	359	Vertical
3	1290.254	-29.53	-33.63	-13.00	20.63	-4.10	176	Vertical
4	1720.347	-32.90	-34.32	-13.00	21.32	-1.42	269	Vertical
5	2580.5331	-36.65	-34.28	-13.00	21.28	2.37	285	Vertical
6	4300.9051	-36.66	-33.00	-13.00	20.00	3.66	312	Vertical

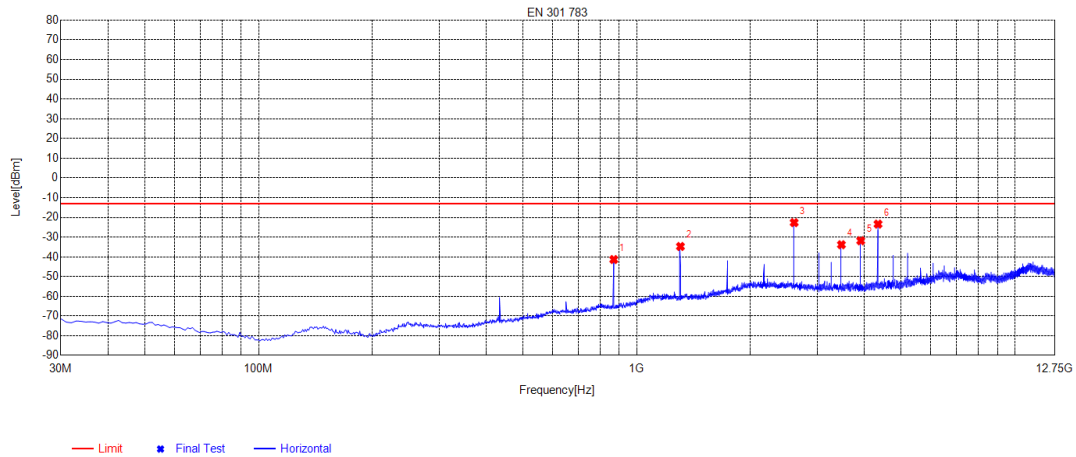
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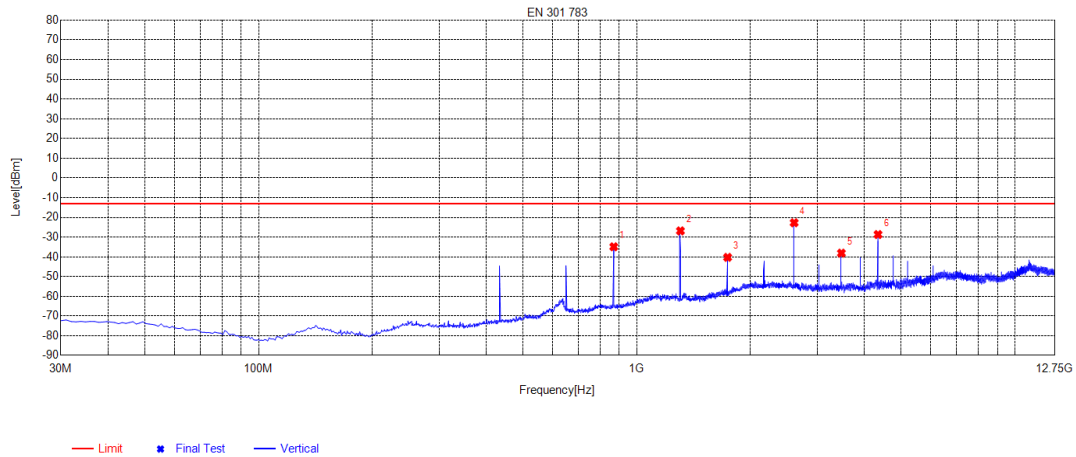
### The Middle channel for 25 kHz Channel Separation @Transmitting Mode-Horizontal-5W



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	870.02	-78.63	-41.35	-13.00	28.35	37.28	303	Horizontal
2	1305.5306	-30.63	-34.73	-13.00	21.73	-4.10	249	Horizontal
3	2609.911	-24.95	-22.64	-13.00	9.64	2.31	358	Horizontal
4	3480.6731	-36.10	-33.84	-13.00	20.84	2.26	47	Horizontal
5	3915.4665	-34.29	-31.83	-13.00	18.83	2.46	249	Horizontal
6	4350.26	-27.25	-23.40	-13.00	10.40	3.85	303	Horizontal

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### The Middle channel for 25 kHz Channel Separation @Transmitting Mode- Vertical-5W



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	870.02	-72.17	-34.89	-13.00	21.89	37.28	306	Vertical
2	1305.5306	-22.73	-26.83	-13.00	13.83	-4.10	10	Vertical
3	1740.324	-39.08	-40.25	-13.00	27.25	-1.17	306	Vertical
4	2609.911	-25.02	-22.71	-13.00	9.71	2.31	278	Vertical
5	3480.6731	-40.38	-38.12	-13.00	25.12	2.26	26	Vertical
6	4350.26	-32.53	-28.68	-13.00	15.68	3.85	268	Vertical

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

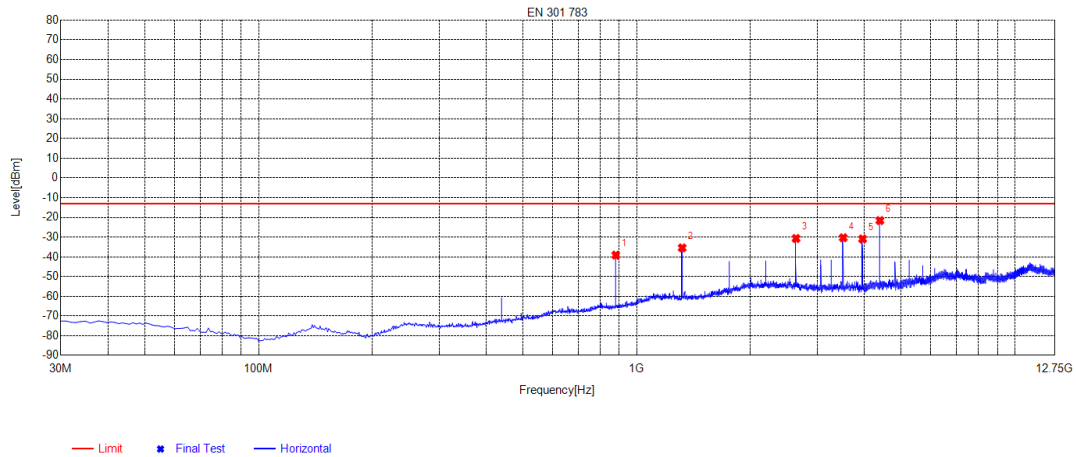
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### The Top channel for 25 kHz Channel Separation @Transmitting Mode-Horizontal-5W



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	880.69	-76.50	-39.13	-13.00	26.13	37.37	1	Horizontal
2	1319.632	-31.34	-35.44	-13.00	22.44	-4.10	360	Horizontal
3	2640.464	-32.93	-30.68	-13.00	17.68	2.25	360	Horizontal
4	3519.4519	-32.60	-30.30	-13.00	17.30	2.30	39	Horizontal
5	3960.121	-33.39	-30.91	-13.00	17.91	2.48	84	Horizontal
6	4399.615	-25.64	-21.60	-13.00	8.60	4.04	313	Horizontal

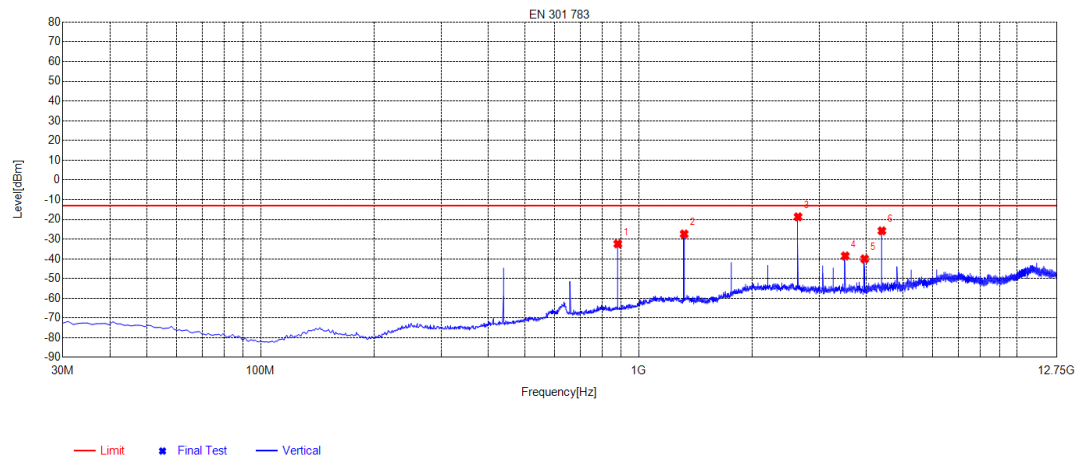
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### The Top channel for 25 kHz Channel Separation @Transmitting Mode- Vertical-5W



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	880.69	-69.77	-32.40	-13.00	19.40	37.37	351	Vertical
2	1319.632	-23.30	-27.40	-13.00	14.40	-4.10	313	Vertical
3	2640.464	-20.97	-18.72	-13.00	5.72	2.25	313	Vertical
4	3519.4519	-40.84	-38.54	-13.00	25.54	2.30	257	Vertical
5	3960.121	-42.50	-40.02	-13.00	27.02	2.48	209	Vertical
6	4399.615	-29.85	-25.81	-13.00	12.81	4.04	265	Vertical

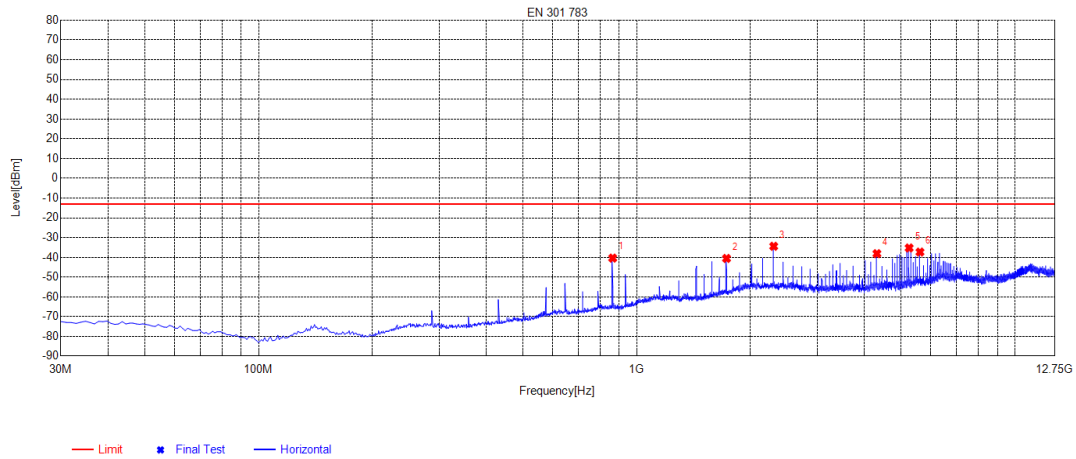
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**The Bottom channel for 12.5 kHz Channel Separation @Transmitting Mode-Horizontal-5W**

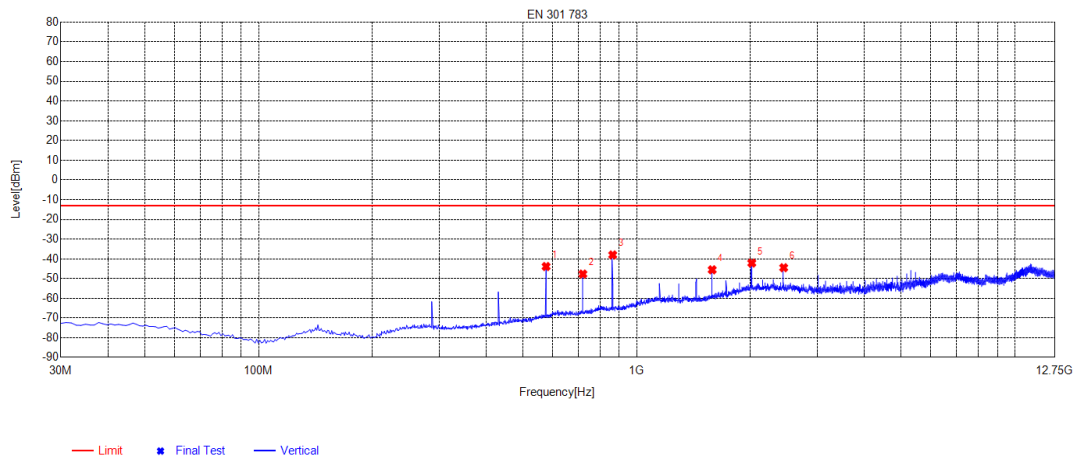


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	864.2	-77.60	-40.37	-13.00	27.37	37.23	1	Horizontal
2	1728.5729	-39.22	-40.54	-13.00	27.54	-1.32	30	Horizontal
3	2304.3804	-36.72	-34.39	-13.00	21.39	2.33	9	Horizontal
4	4320.8821	-41.86	-38.12	-13.00	25.12	3.74	40	Horizontal
5	5257.4507	-40.64	-35.24	-13.00	22.24	5.40	56	Horizontal
6	5617.0367	-43.31	-37.31	-13.00	24.31	6.00	40	Horizontal

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### The Bottom channel for 12.5 kHz Channel Separation @Transmitting Mode- Vertical-5W



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	576.11	-77.76	-43.88	-13.00	30.88	33.88	173	Vertical
2	720.64	-82.98	-47.70	-13.00	34.70	35.28	183	Vertical
3	864.2	-75.24	-38.01	-13.00	25.01	37.23	351	Vertical
4	1584.0334	-42.45	-45.55	-13.00	32.55	-3.10	21	Vertical
5	2016.4766	-44.17	-42.13	-13.00	29.13	2.04	351	Vertical
6	2448.9199	-46.96	-44.48	-13.00	31.48	2.48	351	Vertical

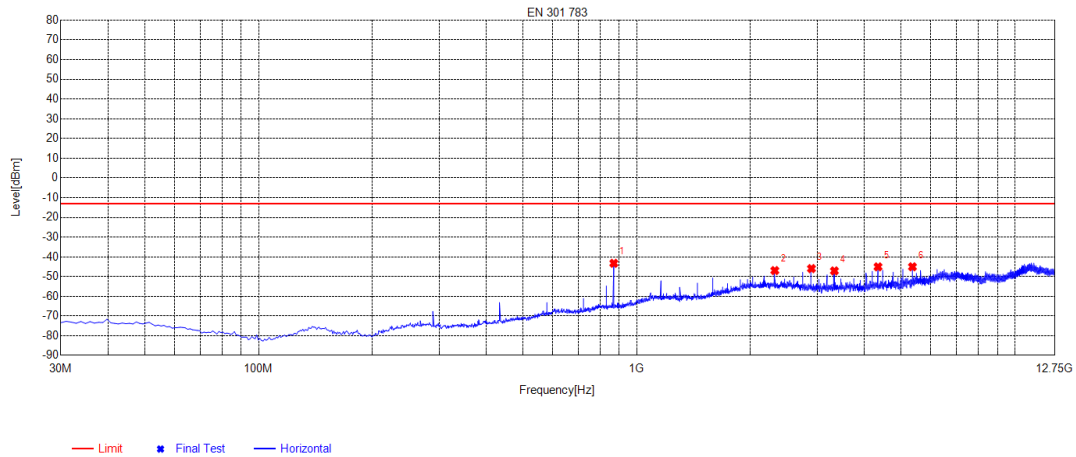
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### The Middle channel for 12.5 kHz Channel Separation @Transmitting Mode-Horizontal-5W



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	870.02	-80.53	-43.25	-13.00	30.25	37.28	305	Horizontal
2	2319.657	-49.30	-46.95	-13.00	33.95	2.35	343	Horizontal
3	2900.165	-47.67	-45.95	-13.00	32.95	1.72	10	Horizontal
4	3334.9585	-49.16	-47.12	-13.00	34.12	2.04	359	Horizontal
5	4350.26	-48.91	-45.06	-13.00	32.06	3.85	38	Horizontal
6	5365.5616	-50.61	-45.04	-13.00	32.04	5.57	38	Horizontal

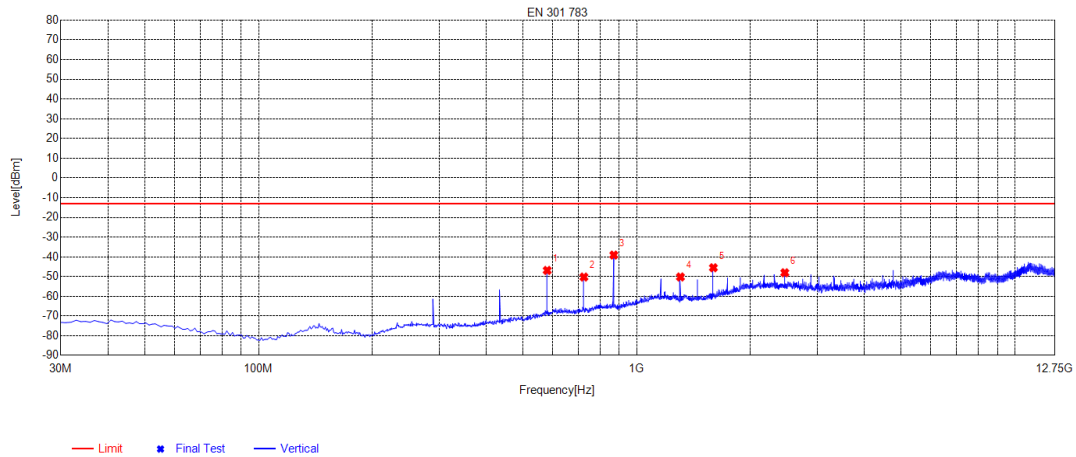
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### The Middle channel for 12.5 kHz Channel Separation @Transmitting Mode- Vertical-5W



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	579.99	-80.89	-46.86	-13.00	33.86	34.03	209	Vertical
2	725.49	-85.57	-50.23	-13.00	37.23	35.34	209	Vertical
3	870.02	-76.36	-39.08	-13.00	26.08	37.28	0	Vertical
4	1305.5306	-46.09	-50.19	-13.00	37.19	-4.10	7	Vertical
5	1595.7846	-42.57	-45.52	-13.00	32.52	-2.95	7	Vertical
6	2465.3715	-50.55	-48.06	-13.00	35.06	2.49	341	Vertical

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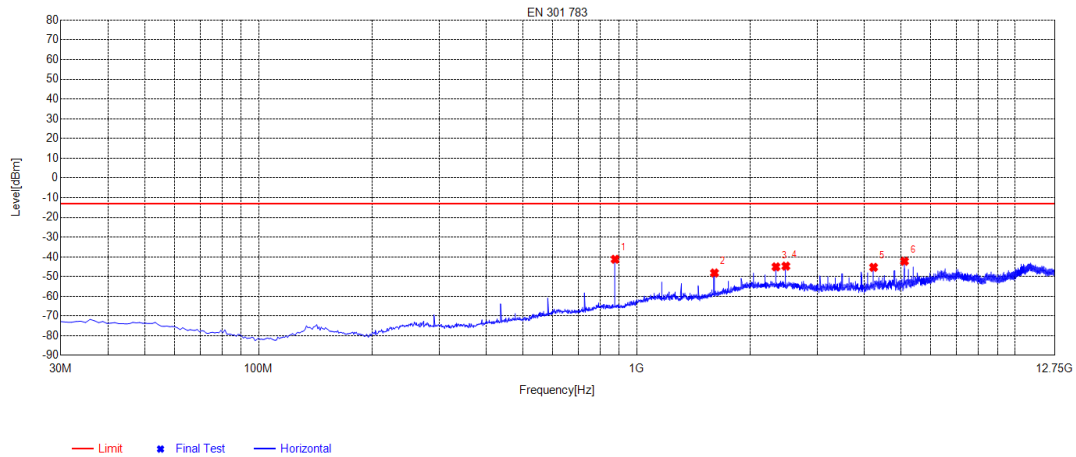
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# The Top channel for 12.5 kHz Channel Separation @Transmitting Mode-Horizontal-5W



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	876.81	-78.56	-41.22	-13.00	28.22	37.34	306	Horizontal
2	1606.3606	-45.35	-48.17	-13.00	35.17	-2.82	176	Horizontal
3	2336.1086	-47.42	-45.06	-13.00	32.06	2.36	9	Horizontal
4	2481.8232	-47.22	-44.71	-13.00	31.71	2.51	350	Horizontal
5	4233.9234	-48.71	-45.31	-13.00	32.31	3.40	44	Horizontal
6	5109.3859	-47.37	-42.21	-13.00	29.21	5.16	44	Horizontal

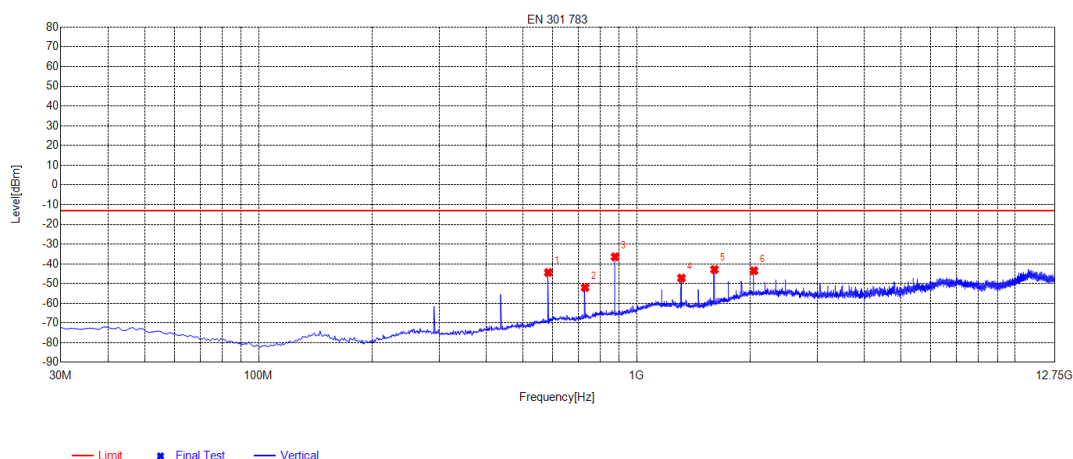
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# The Top channel for 12.5 kHz Channel Separation @Transmitting Mode- Vertical-5W



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	583.87	-78.58	-44.39	-13.00	31.39	34.19	135	Vertical
2	730.34	-87.41	-52.01	-13.00	39.01	35.40	181	Vertical
3	876.81	-73.77	-36.43	-13.00	23.43	37.34	0	Vertical
4	1313.7564	-43.12	-47.22	-13.00	34.22	-4.10	351	Vertical
5	1606.3606	-40.04	-42.86	-13.00	29.86	-2.82	0	Vertical
6	2043.5044	-45.56	-43.50	-13.00	30.50	2.06	359	Vertical

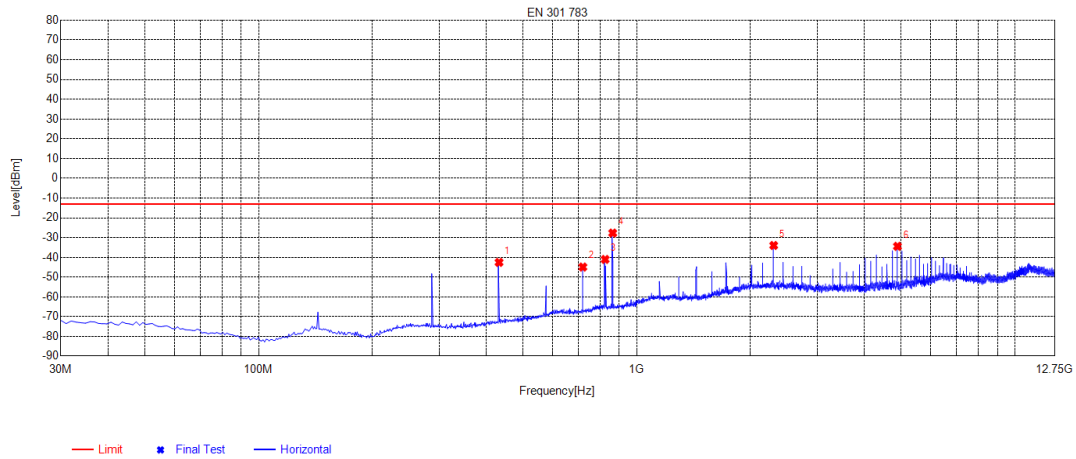
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### The Bottom channel for 25 kHz Channel Separation @Transmitting Mode-Horizontal-5W

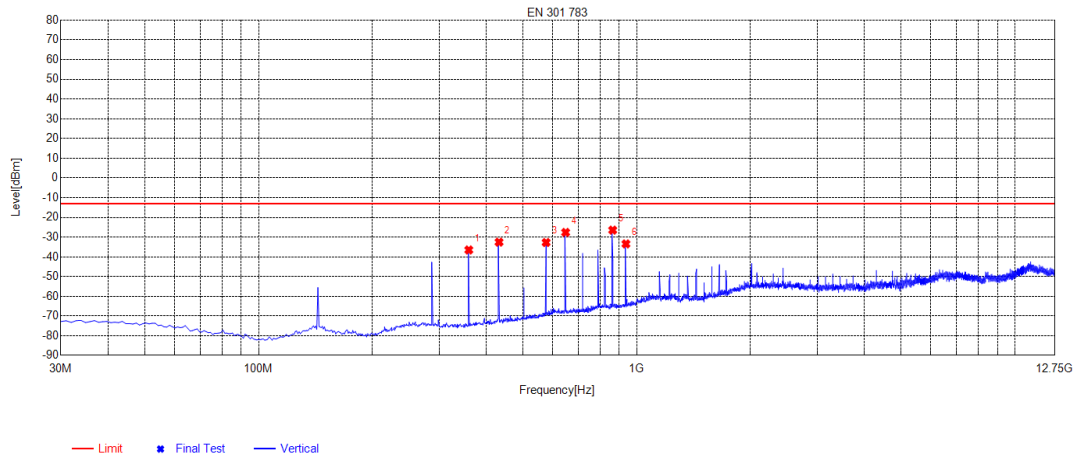


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	432.55	-73.07	-42.54	-13.00	29.54	30.53	360	Horizontal
2	720.64	-80.18	-44.90	-13.00	31.90	35.28	281	Horizontal
3	825.4	-78.45	-41.04	-13.00	28.04	37.41	84	Horizontal
4	864.2	-64.92	-27.69	-13.00	14.69	37.23	309	Horizontal
5	2304.3804	-36.30	-33.97	-13.00	20.97	2.33	360	Horizontal
6	4896.6897	-39.29	-34.42	-13.00	21.42	4.87	56	Horizontal

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### The Bottom channel for 25 kHz Channel Separation @Transmitting Mode- Vertical-5W



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	359.8	-65.09	-36.50	-13.00	23.50	28.59	359	Vertical
2	432.55	-63.07	-32.54	-13.00	19.54	30.53	192	Vertical
3	576.11	-66.60	-32.72	-13.00	19.72	33.88	359	Vertical
4	648.86	-62.33	-27.61	-13.00	14.61	34.72	359	Vertical
5	864.2	-63.68	-26.45	-13.00	13.45	37.23	351	Vertical
6	936.95	-71.70	-33.44	-13.00	20.44	38.26	359	Vertical

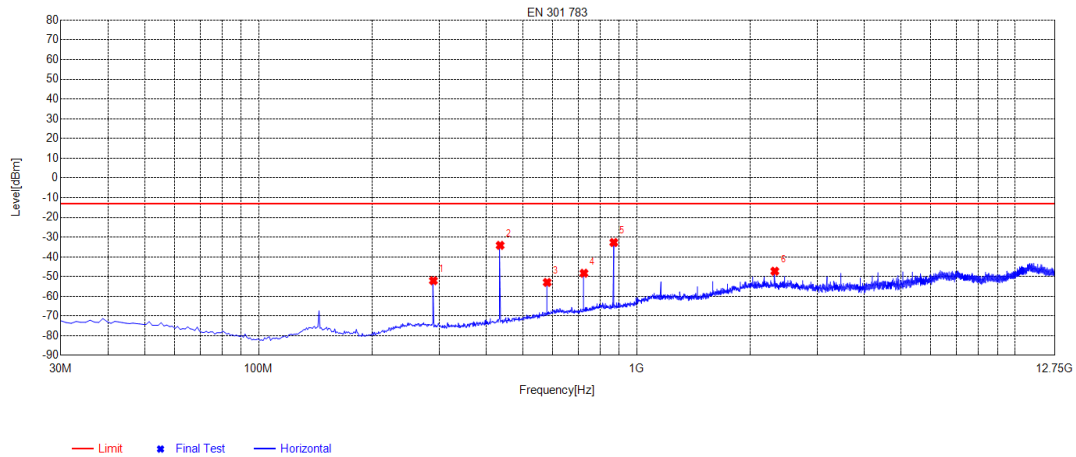
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# The Middle channel for 25 kHz Channel Separation @Transmitting Mode-Horizontal-5W



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	289.96	-80.21	-52.08	-13.00	39.08	28.13	92	Horizontal
2	435.46	-64.79	-34.18	-13.00	21.18	30.61	158	Horizontal
3	579.99	-86.98	-52.95	-13.00	39.95	34.03	346	Horizontal
4	725.49	-83.64	-48.30	-13.00	35.30	35.34	308	Horizontal
5	870.02	-69.99	-32.71	-13.00	19.71	37.28	308	Horizontal
6	2319.657	-49.63	-47.28	-13.00	34.28	2.35	10	Horizontal

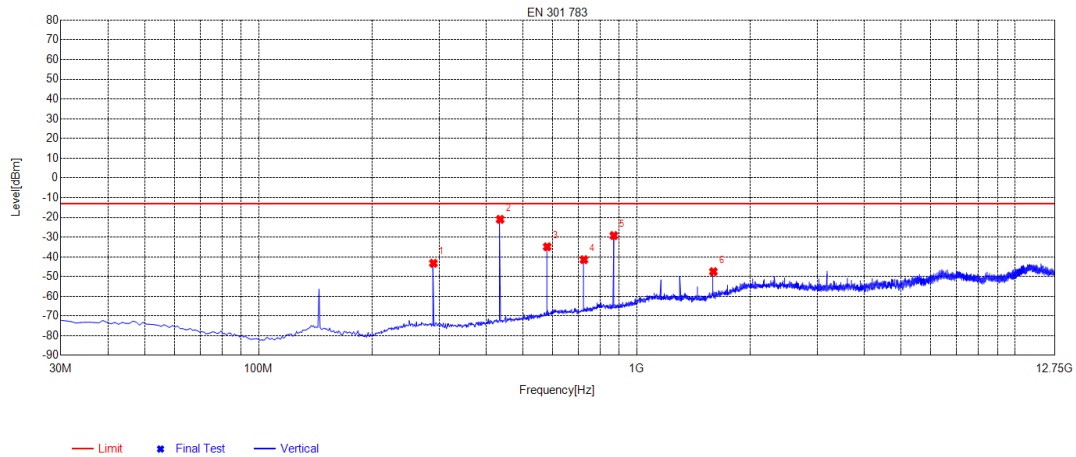
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### The Middle channel for 25 kHz Channel Separation @Transmitting Mode- Vertical-5W



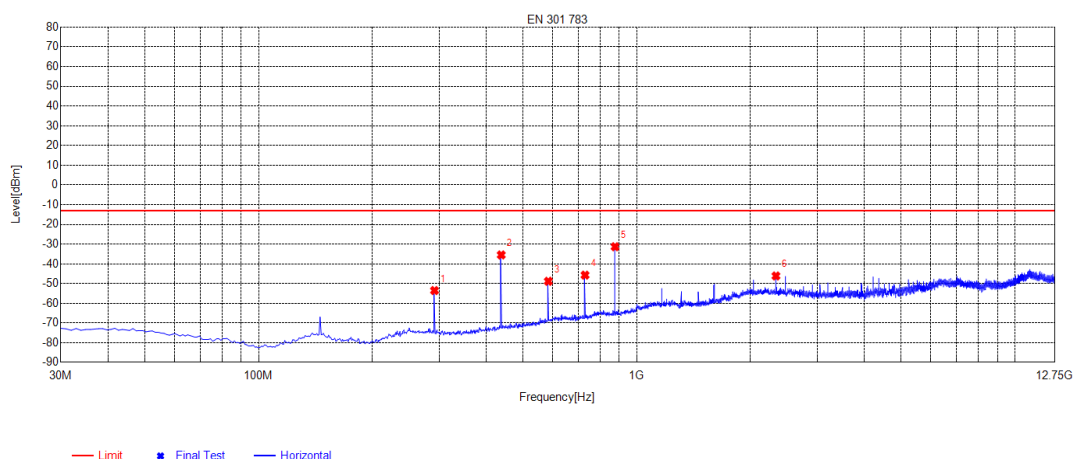
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	289.96	-71.38	-43.25	-13.00	30.25	28.13	214	Vertical
2	435.46	-51.62	-21.01	-13.00	8.01	30.61	198	Vertical
3	579.99	-68.92	-34.89	-13.00	21.89	34.03	143	Vertical
4	725.49	-76.77	-41.43	-13.00	28.43	35.34	198	Vertical
5	870.02	-66.49	-29.21	-13.00	16.21	37.28	359	Vertical
6	1595.7846	-44.55	-47.50	-13.00	34.50	-2.95	359	Vertical

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# The Top channel for 25 kHz Channel Separation @Transmitting Mode-Horizontal-5W



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	291.9	-81.63	-53.53	-13.00	40.53	28.10	72	Horizontal
2	438.37	-66.17	-35.48	-13.00	22.48	30.69	162	Horizontal
3	583.87	-83.02	-48.83	-13.00	35.83	34.19	343	Horizontal
4	730.34	-81.12	-45.72	-13.00	32.72	35.40	280	Horizontal
5	876.81	-68.66	-31.32	-13.00	18.32	37.34	307	Horizontal
6	2336.1086	-48.49	-46.13	-13.00	33.13	2.36	10	Horizontal

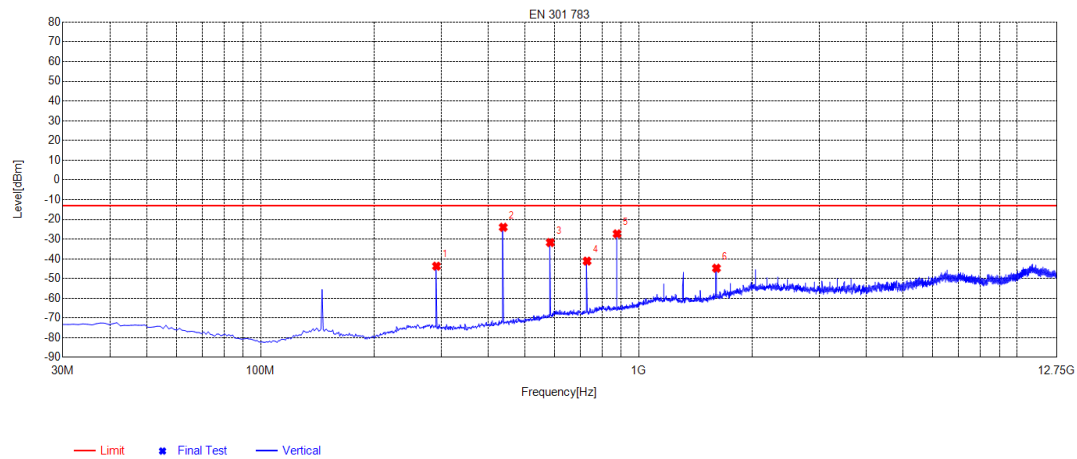
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### The Top channel for 25 kHz Channel Separation @Transmitting Mode- Vertical-5W



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	291.9	-71.81	-43.71	-13.00	30.71	28.10	207	Vertical
2	438.37	-54.67	-23.98	-13.00	10.98	30.69	227	Vertical
3	583.87	-65.94	-31.75	-13.00	18.75	34.19	141	Vertical
4	730.34	-76.53	-41.13	-13.00	28.13	35.40	189	Vertical
5	876.81	-64.65	-27.31	-13.00	14.31	37.34	2	Vertical
6	1606.3606	-41.93	-44.75	-13.00	31.75	-2.82	351	Vertical

#### Note:

1. Factor=Antenna Factor + Cable loss. (Below 1GHz)
2. Factor=Antenna Factor+ Cable loss-Pre-amplifier.(Above 1 GHz)
3. Margin=Limit- Level

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## 6.5 RADIATED SPURIOUS EMISSION ENCLOSURE PORT IN RECEIVE OR STANDBY MODE

### TEST LIMIT

The power of any spurious emission, occurring outside the exclusion band centred on the frequency on which the transmitter is intended to operate, shall not exceed the values given in tables 6 and 8 with the transmitter operating and tables 7 and 9 with the transmitter in standby mode.

**Table 9: Enclosure port limits in transmit standby mode**

Frequency Range	Test Limits	Remarks
30 MHz to 1 000 MHz	-57 dBm	
> 1 000 MHz	-47 dBm	(see note)
NOTE: For measurement at frequencies greater than 40 GHz no test limits are specified.		

**Table 3: Reference bandwidths to be used for the measurement of spurious emissions**

Frequency range	RBW
9 to 150 kHz	1 kHz
150 kHz to 30 MHz	10 kHz
30 MHz to 1 GHz	100 kHz
Above 1 GHz	1 MHz

**Table 4: Transmit exclusion bands for the measurement of spurious emissions**

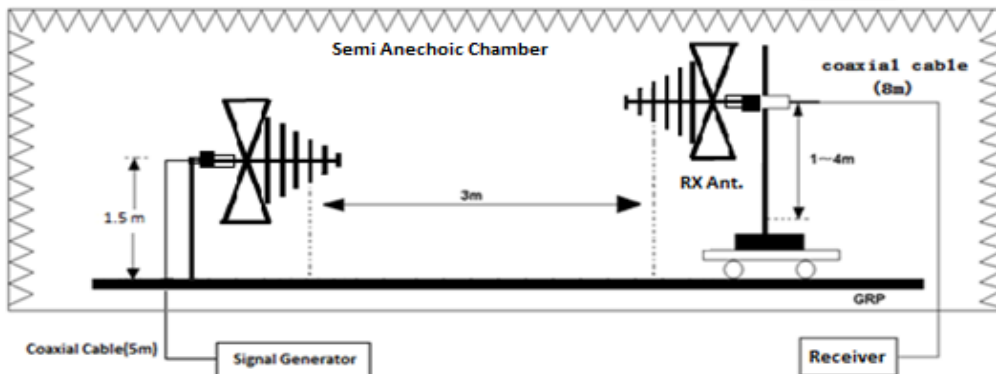
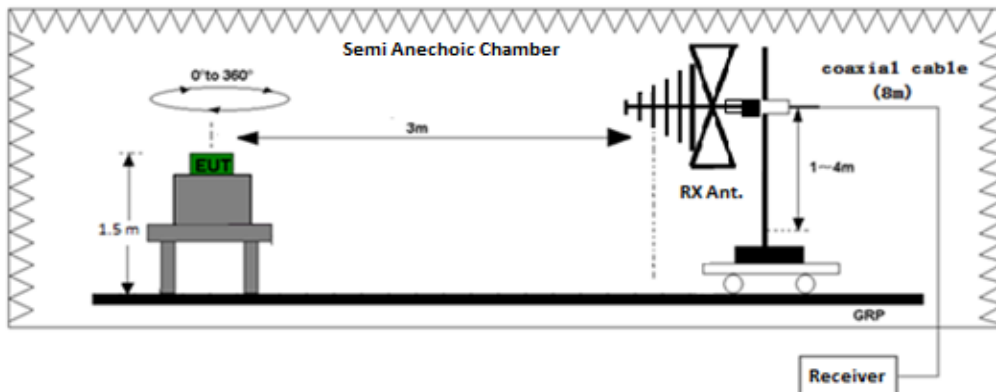
Operating freq	Bn minimum	Tx exclusion band
Below 30 MHz	4 kHz	10 kHz
30 MHz to 1 GHz	25 kHz	62,5 kHz
1 GHz to 26 GHz	100 kHz	250 kHz
Above 26 GHz	1 MHz	2,5 MHz

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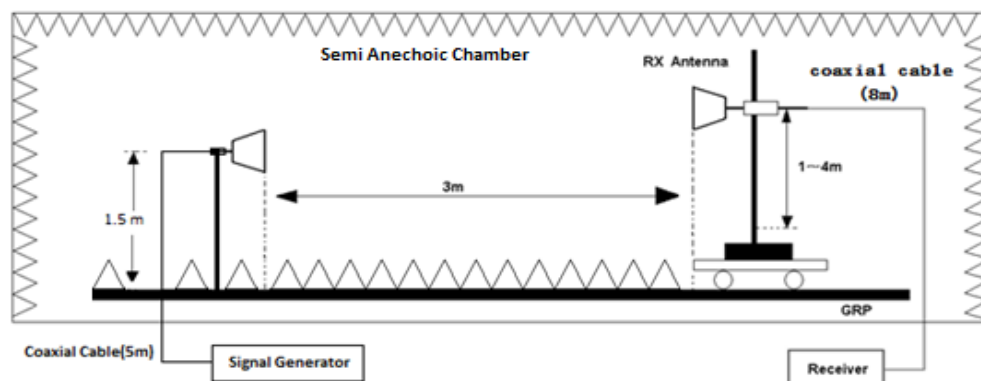
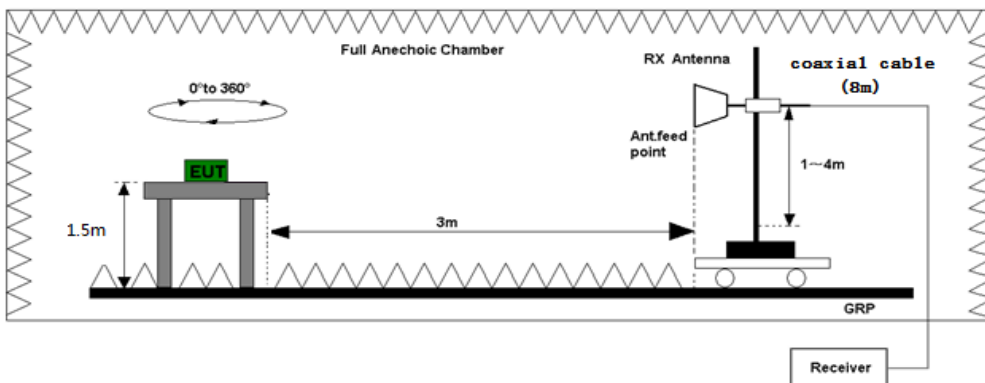
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Test set-up of radiated disturbance (30MHz-1GHz)



Test set-up of radiated disturbance (above 1GHz)

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### TEST PROCEDURE

1. Please refer to ETSI EN 301 783(V2.1.1), clause 4.2 for test condition.
2. Please refer to ETSI EN 301 783(V2.1.1) Sub-clause 5.2.2.2 for the measurement method.

### TEST RESULTS

#### Note:

1. The EUT have been tested under DC 7.4V.
2. Only result the worst case in this part

### TEST RESULT OF VHF/UHF

#### Below 1G

Frequency (MHz)	Reading level (dBuV)	Antenna Polarization	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
30MHz - 1 GHz	--	V	--	--	--	--	--	At least 20 dB down than the limit
30MHz - 1 GHz	--	H	--	--	--	--	--	

#### Remark:

- (1) Emission Level (dBm) = SG O/P-Cable + Ant Gain
- (2) Measuring frequencies from 1 GHz to the 12.75GHz.
- (3) Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

#### Above 1G

Frequency (MHz)	Reading level (dBuV)	Antenna Polarization	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
Above 1 GHz	--	V	--	--	--	--	--	At least 20 dB down than the limit
Above 1 GHz	--	H	--	--	--	--	--	

#### Remark:

- (1) Emission Level (dBm) = SG O/P-Cable + Ant Gain
- (2) Measuring frequencies from 1 GHz to the 12.75GHz.

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## TEST LIMIT

### ETSI EN 301 783(V 2.1.1) Sub-clause 6.1.3

The maximum usable sensitivity of the receiver as defined as in ETSI EN 301 783 Sub-clause 6.1.2.3 shall produce a SND/ND ratio of 12 dB, measured at the receiver output through a telephone psophometric weighting network

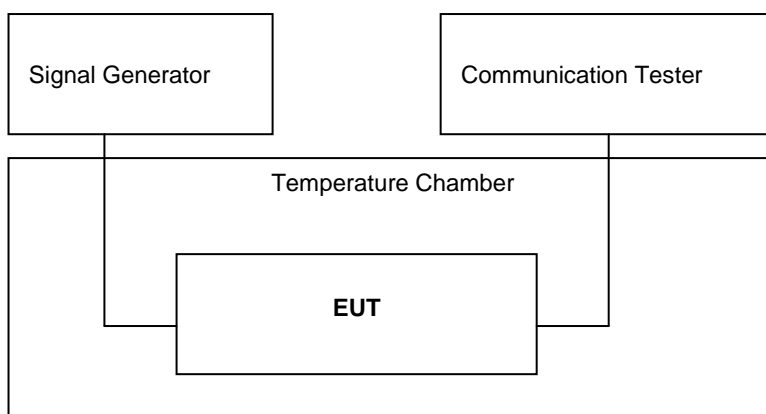
The maximum usable sensitivity shall be equal or greater the values given in below table.

**Table 11: Maximum usable sensitivity**

Frequency range	AM	SSB	FM	Other
Up to 3 MHz	+16 dBμV	+10 dBμV	n/a	As declared by manufacturer
3 MHz to 30 MHz	+6 dBμV	+0 dBμV	+0 dBμV	As declared by manufacturer
30 MHz to 1 GHz	0 dBμV	-6 dBμV	-6 dBμV	As declared by manufacturer
Above 1 GHz	0 dBμV	-6 dBμV	-6 dBμV	As declared by manufacturer

Wanted signal: 60% of the maximum permissible frequency deviation (1 kHz)

## TEST CONFIGURATION



## TEST PROCEDURE

1. Please refer to ETSI EN 300 086 (V.2.1.2) Sub-clause 5.3 and 5.4 for the test conditions.
2. Please refer to ETSI EN 300 086 (V2.1.2) Sub-clause 8.1.2 for the measurement method.

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Test Result of 12.5 KHz Channel Separation (144.025MHz)			
Test Condition		Result Measured ( dBuV )	Limit ( dBuV )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	1.76	At least -6
Result		Pass	

Test Result of 12.5 KHz Channel Separation (145.000MHz)			
Test Condition		Result Measured ( dBuV )	Limit ( dBuV )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	1.80	At least -6
Result		Pass	

Test Result of 12.5 KHz Channel Separation (145.975MHz)			
Test Condition		Result Measured ( dBuV )	Limit ( dBuV )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	1.79	At least -6
Result		Pass	

Test Result of 12.5 KHz Channel Separation (430.025MHz)			
Test Condition		Result Measured ( dBuV )	Limit ( dBuV )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	1.83	At least -6
Result		Pass	

Test Result of 12.5 KHz Channel Separation (435.000MHz)			
Test Condition		Result Measured ( dBuV )	Limit ( dBuV )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	1.84	At least -6
Result		Pass	

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Test Result of 12.5 KHz Channel Separation (439.975MHz)			
Test Condition		Result Measured ( dBuV )	Limit ( dBuV )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	1.84	At least -6
Result		Pass	

Test Result of 25 KHz Channel Separation (144.025MHz)			
Test Condition		Result Measured ( dBuV )	Limit ( dBuV )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	1.82	At least -6
Result		Pass	

Test Result of 25 KHz Channel Separation (145.000MHz)			
Test Condition		Result Measured ( dBuV )	Limit ( dBuV )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	1.79	At least -6
Result		Pass	

Test Result of 25 KHz Channel Separation (145.975MHz)			
Test Condition		Result Measured ( dBuV )	Limit ( dBuV )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	1.80	At least -6
Result		Pass	

Test Result of 25 KHz Channel Separation (430.025MHz)			
Test Condition		Result Measured ( dBuV )	Limit ( dBuV )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	1.82	At least -6
Result		Pass	

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Test Result of 25 KHz Channel Separation (435.000MHz)			
Test Condition		Result Measured ( dBuV )	Limit ( dBuV )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	1.82	At least -6
Result		Pass	

Test Result of 25 KHz Channel Separation (439.975MHz)			
Test Condition		Result Measured ( dBuV )	Limit ( dBuV )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	1.81	At least -6
Result		Pass	

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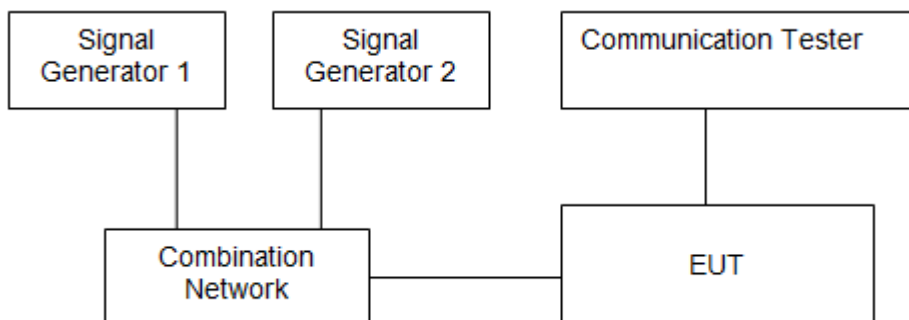
### TEST LIMIT

#### **ETSI EN 301 783(V 2.1.1) Sub-clause 8.4.3**

The adjacent channel selectivity of the receiver as defined as in ETSI EN 301 783 Sub-clause 6.2,  
The adjacent channel selectivity for different channel separations shall not be less than the values given below.

Equipment type	AM	SSB	FM	Other
Base station/Mobile	60 dB	60 dB	60 dB	60 dB
Handheld	55 dB	55 dB	55 dB	55 dB

### TEST CONFIGURATION



### TEST PROCEDURE

1. Please refer to ETSI EN 300 086 (V.2.1.2) Sub-clause 5.3 and 6.4 for the test conditions.
2. Please refer to ETSI EN 300 086 (V 2.1.2) Sub-clause 8.4.2 for the measurement method.

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Test Result of 12.5 KHz Channel Separation (144.025MHz) at unwanted signal frequency above wanted signal frequency			
Test Condition		Result Measured ( dB )	Limit ( dB )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	76	60
Result		Pass	

Test Result of 12.5 KHz Channel Separation (144.025MHz) at unwanted signal frequency below wanted signal frequency			
Test Condition		Result Measured ( dB )	Limit ( dB )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	78	60
Result		Pass	

Test Result of 12.5 KHz Channel Separation (145.000MHz) at unwanted signal frequency above wanted signal frequency			
Test Condition		Result Measured ( dB )	Limit ( dB )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	77	60
Result		Pass	

Test Result of 12.5 KHz Channel Separation (145.000MHz) at unwanted signal frequency below wanted signal frequency			
Test Condition		Result Measured ( dB )	Limit ( dB )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	76	60
Result		Pass	

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Test Result of 12.5 KHz Channel Separation (145.975MHz) at unwanted signal frequency above wanted signal frequency			
Test Condition		Result Measured ( dB )	Limit ( dB )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	75	60
Result		Pass	

Test Result of 12.5 KHz Channel Separation (145.975MHz) at unwanted signal frequency below wanted signal frequency			
Test Condition		Result Measured ( dB )	Limit ( dB )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	78	60
Result		Pass	

Test Result of 25 KHz Channel Separation (144.025MHz) at unwanted signal frequency above wanted signal frequency			
Test Condition		Result Measured ( dB )	Limit ( dB )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	79	60
Result		Pass	

Test Result of 25 KHz Channel Separation (144.025MHz) at unwanted signal frequency below wanted signal frequency			
Test Condition		Result Measured ( dB )	Limit ( dB )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	74	60
Result		Pass	

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Test Result of 25 KHz Channel Separation (145.000MHz) at unwanted signal frequency above wanted signal frequency			
Test Condition		Result Measured ( dB )	Limit ( dB )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	79	60
Result		Pass	

Test Result of 25 KHz Channel Separation (145.000MHz) at unwanted signal frequency below wanted signal frequency			
Test Condition		Result Measured ( dB )	Limit ( dB )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	76	60
Result		Pass	

Test Result of 25 KHz Channel Separation (145.975MHz) at unwanted signal frequency above wanted signal frequency			
Test Condition		Result Measured ( dB )	Limit ( dB )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	77	60
Result		Pass	

Test Result of 25 KHz Channel Separation (145.975MHz) at unwanted signal frequency below wanted signal frequency			
Test Condition		Result Measured ( dB )	Limit ( dB )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	76	60
Result		Pass	

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Test Result of 12.5 KHz Channel Separation (430.025MHz) at unwanted signal frequency above wanted signal frequency			
Test Condition		Result Measured ( dB )	Limit ( dB )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	78	60
Result		Pass	

Test Result of 12.5 KHz Channel Separation (430.025MHz) at unwanted signal frequency below wanted signal frequency			
Test Condition		Result Measured ( dB )	Limit ( dB )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	74	60
Result		Pass	

Test Result of 12.5 KHz Channel Separation (435.000MHz) at unwanted signal frequency above wanted signal frequency			
Test Condition		Result Measured ( dB )	Limit ( dB )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	75	60
Result		Pass	

Test Result of 12.5 KHz Channel Separation (435.000MHz) at unwanted signal frequency below wanted signal frequency			
Test Condition		Result Measured ( dB )	Limit ( dB )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	73	60
Result		Pass	

Test Result of 12.5 KHz Channel Separation (439.975MHz) at unwanted signal frequency above wanted signal frequency			
Test Condition		Result Measured ( dB )	Limit ( dB )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	77	60
Result		Pass	

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Test Result of 12.5 KHz Channel Separation (439.975MHz) at unwanted signal frequency below wanted signal frequency			
Test Condition		Result Measured ( dB )	Limit ( dB )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	76	60
Result		Pass	

Test Result of 25 KHz Channel Separation (430.025MHz) at unwanted signal frequency above wanted signal frequency			
Test Condition		Result Measured ( dB )	Limit ( dB )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	77	60
Result		Pass	

Test Result of 25 KHz Channel Separation (430.025MHz) at unwanted signal frequency below wanted signal frequency			
Test Condition		Result Measured ( dB )	Limit ( dB )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	74	60
Result		Pass	

Test Result of 25 KHz Channel Separation (435.000MHz) at unwanted signal frequency above wanted signal frequency			
Test Condition		Result Measured ( dB )	Limit ( dB )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	73	60
Result		Pass	

Test Result of 25 KHz Channel Separation (435.000MHz) at unwanted signal frequency below wanted signal frequency			
Test Condition		Result Measured ( dB )	Limit ( dB )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	72	60
Result		Pass	

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Test Result of 25 KHz Channel Separation (439.975MHz) at unwanted signal frequency above wanted signal frequency			
Test Condition		Result Measured ( dB )	Limit ( dB )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	73	60
Result		Pass	

Test Result of 25 KHz Channel Separation (439.975MHz) at unwanted signal frequency below wanted signal frequency			
Test Condition		Result Measured ( dB )	Limit ( dB )
Temperature ( °C )	Voltage ( V )		
T Nor ( 25°C )	DC 7.4V	75	60
Result		Pass	

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### **TEST LIMIT**

#### **Refer to 301 783 Subpart 6.3.3**

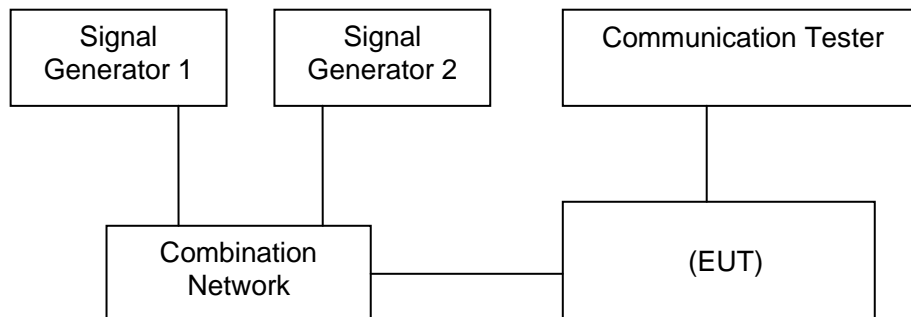
Application of the test signal shall not cause the demodulated receiver output to:

Be reduced to less than 12 db SINAD for analogue speech equipment; or

Be reduced to less than 80 % of the original data throughput for non-speech equipment; or

Be degraded to a level declared by the manufacturer as appropriate for the type of signal conveyed.

### **TEST CONFIGURATION**



### **TEST PROCEDURE**

1. Please refer to ETSI EN 301 783(V2.1.1), clause 4.2 for test condition.
2. Please refer to ETSI EN 301 783(V2.1.1) Sub-clause 6.3.2.1 for the measurement method.

### **TEST RESULTS**

#### **Note:**

1. The EUT have been tested under DC 7.4V.
2. Only result the worst case in the part.

**VHF TEST RESULT-5W-12.5KHz**

Frequency	Modulation	Channel	SINAD(dB)
Below 30MHz(150K~30M)	F3E	Low(144.025MHz)	18.52
		Middle(145.000MHz)	18.11
		High(145.975MHz)	18.37
30MHz to 1GHz	F3E	Low(144.025MHz)	17.56
		Middle(145.000MHz)	18.53
		High(145.975MHz)	18.44

**VHF TEST RESULT-5W-25KHz**

Frequency	Modulation	Channel	SINAD(dB)
Below 30MHz(150K~30M)	F3E	Low(144.025MHz)	17.91
		Middle(145.000MHz)	18.12
		High(145.975MHz)	18.08
30MHz to 1GHz	F3E	Low(144.025MHz)	18.74
		Middle(145.000MHz)	18.43
		High(145.975MHz)	18.29

**UHF TEST RESULT-1W-12.5KHz**

Frequency	Modulation	Channel	SINAD(dB)
Below 30MHz(150K~30M)	F3E	Low(430.025MHz)	18.11
		Middle(435.000MHz)	17.64
		High(439.975MHz)	18.34
30MHz to 1GHz	F3E	Low(430.025MHz)	18.29
		Middle(435.000MHz)	18.41
		High(439.975MHz)	18.52

**UHF TEST RESULT-1W-25KHz**

Frequency	Modulation	Channel	SINAD(dB)
Below 30MHz(150K~30M)	F3E	Low(430.025MHz)	18.63
		Middle(435.000MHz)	18.59
		High(439.975MHz)	18.37
30MHz to 1GHz	F3E	Low(430.025MHz)	18.25
		Middle(435.000MHz)	18.20
		High(439.975MHz)	18.13

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## APPENDIX I: PHOTOGRAPHS OF TEST SETUP

### RADIATED SPURIOUS EMISSION TEST SETUP



RADIATED SPURIOUS EMISSION ABOVE 1G TEST SETUP



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## APPENDIX II: PHOTOGRAPHS OF TEST EUT

Refer to the Report No.: AGC16307240501AP01

**---END OF REPORT---**

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## Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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