

467.6500	95.44	V	20.24	0.38	6.6	26.46	0.44	50.00	49.56
467.6500	95.39	H	20.19	0.38	6.6	26.41	0.44	50.00	49.56

Note:

1. Calculation Formula: Emission Level(dBm) = S.G. (dBm)- Cable Loss(dB)+ Ant.Gain(dBi)
2. The Ant. Gain including the correct factor 2.15
3. Margin (dB) = Limit(dBm)- Emission Level(dBm)

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● Conducted Power Result:

The maximum Power (CP) for GMRS is
Analog: 4W/0.5W for 12.5 kHz/25 kHz Channel Separation

Calculation Formula: $CP = R + A + L$

* Note:

CP: The final Conducted Power

R : The reading value from spectrum analyzer

A : The attenuation value of the used attenuator

L : The loss of all connection cables

Conducted Power Measurement Results			
Mode	Channel Separation	Test Channel (MHz)	Measurement Result (dBm) 36.02dBm(4W)
GMRS TX	12.5 kHz	462.6375	35.86
		462.6500	35.79
		467.6500	35.78
Conducted Power Measurement Results			
Mode	Channel Separation	Test Channel (MHz)	Measurement Result (dBm) 26.99dBm(0.5W)
GMRS TX	12.5 kHz	462.6375	26.70
		462.6500	26.77
		467.6500	26.77
		467.6375	26.75

Conducted Power Measurement Results			
Mode	Channel Separation	Test Channel (MHz)	Measurement Result (dBm) 36.02dBm(4W)
GMRS TX	25 kHz	462.6375	35.85
		462.6500	35.82
		467.6500	35.77
Conducted Power Measurement Results			
Mode	Channel Separation	Test Channel (MHz)	Measurement Result (dBm) 26.99dBm(0.5W)
GMRS TX	25 kHz	462.6375	26.71
		462.6500	26.75
		467.6500	26.77

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11. Spurious Emission on Antenna Port

11.1 Provisions Applicable

Please refer to FCC 47 CFR 2.1051, 2.1057, 22.359 & 90.210 for specification details.
Emissions shall be attenuated below the mean output power of the transmitter as follows:

FCC Rules	Attenuation Limit (dBc)
§ 95.1779	At least $43 + 10 \log (P)$ dB

$$43 + 10 \log (P_{\text{watts}})$$

Calculation: Limit (dBm) = EL - 43 - 10 log₁₀ (TP)

Notes: EL is the emission level of the Output Power expressed in dBm,

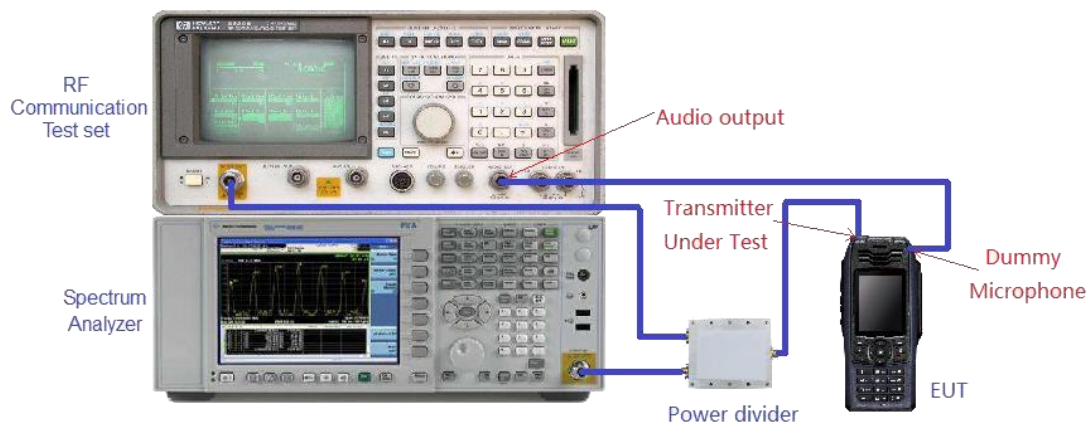
In this application, the EL is P (dBm).

$$\text{Limit (dBm)} = P (\text{dBm}) - 43 - 10 \log (P_{\text{watts}}) = -13 \text{ dBm}$$

11.2 Measurement Procedure

1. The RF output of the EUT was connected to a spectrum analyzer through appropriate attenuation.
2. The resolution bandwidth of the spectrum analyzer was set to 100 kHz. Sufficient scans were taken to
3. Show any out of band emission up to 10th . Harmonic for the lower and the highest frequency range.
4. Set RBW 100 kHz, VBW 300 kHz in the frequency band 30MHz to 1GHz, while set
5. RBW=1MHz. VBW=3MHz from the 1GHz to 10th Harmonic.
6. The audio input was set the unmodulated carrier, the resulting picture is print out for each channel separation.

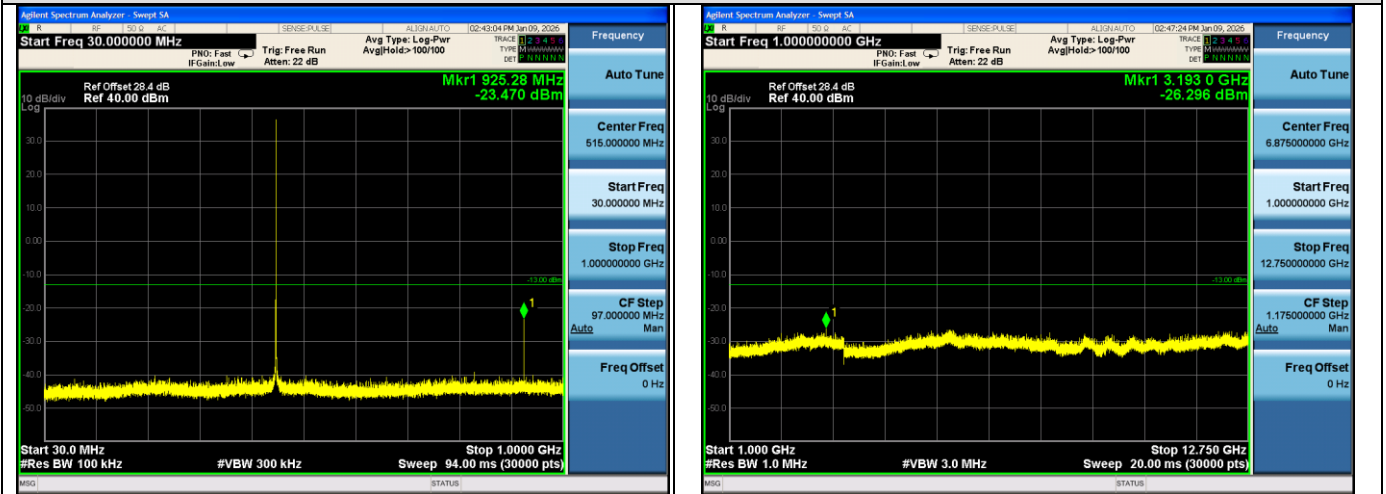
11.3 Measurement Setup



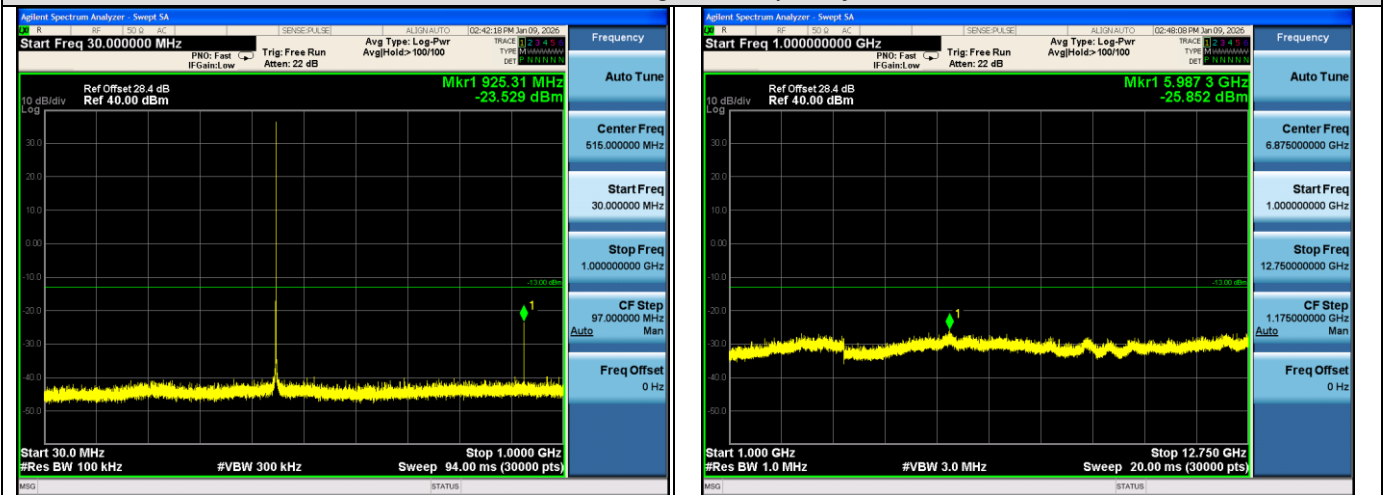
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11.4 Measurement Result

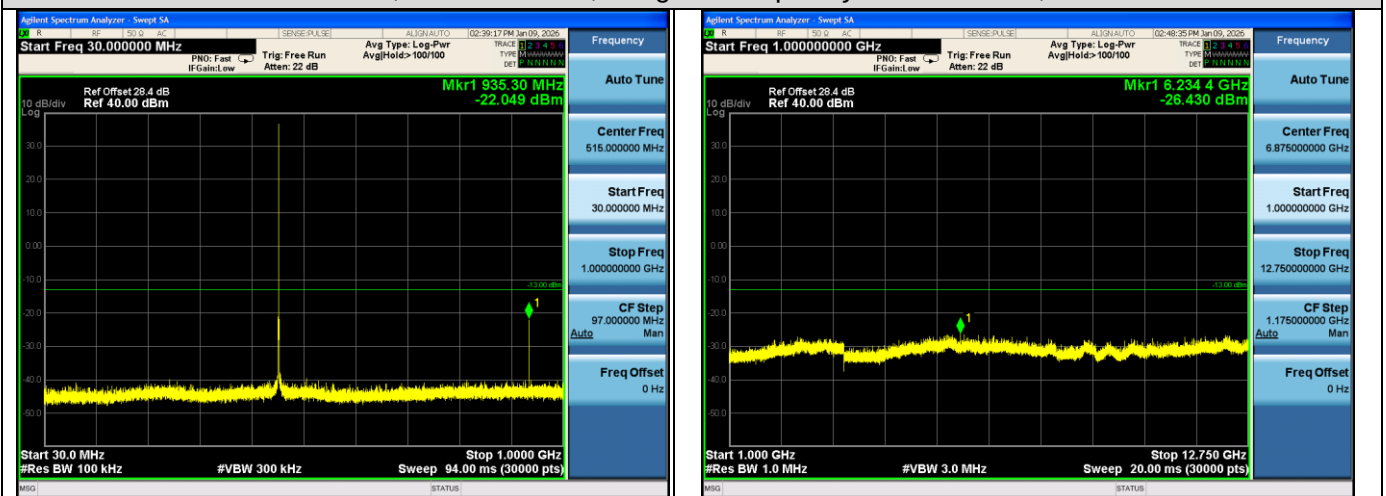
12.5kHz, FM modulation, Assigned Frequency:462.6375MHz, 4W



12.5kHz, FM modulation, Assigned Frequency:462.6500MHz, 4W

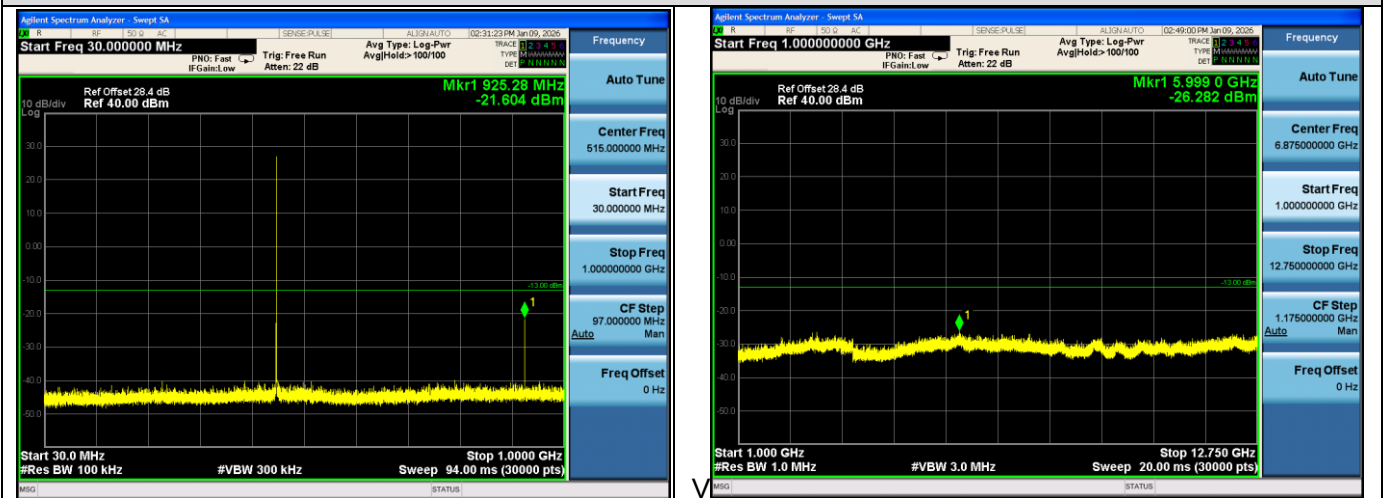


12.5kHz, FM modulation, Assigned Frequency:467.6500MHz, 4W

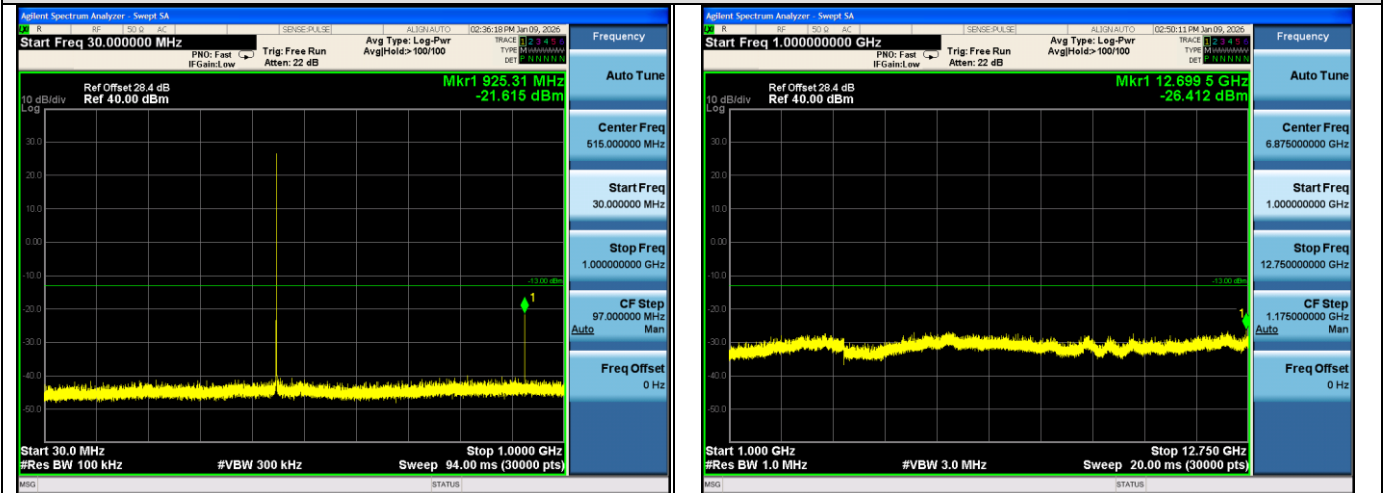


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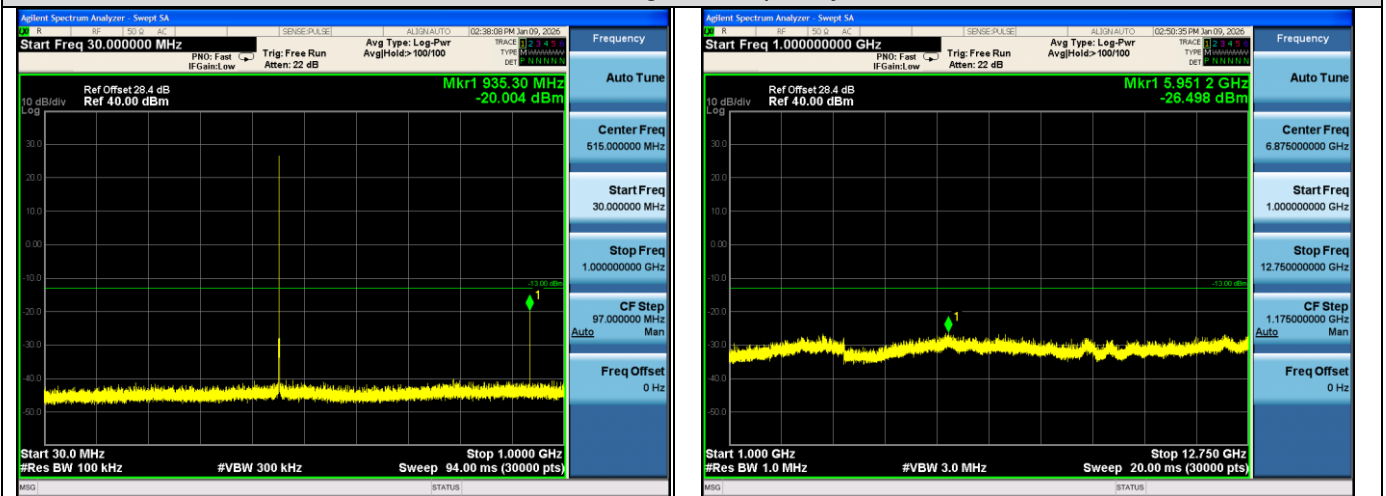
12.5kHz, FM modulation, Assigned Frequency:462.6375MHz, 0.5W



12.5kHz, FM modulation, Assigned Frequency:462.6500MHz, 0.5W

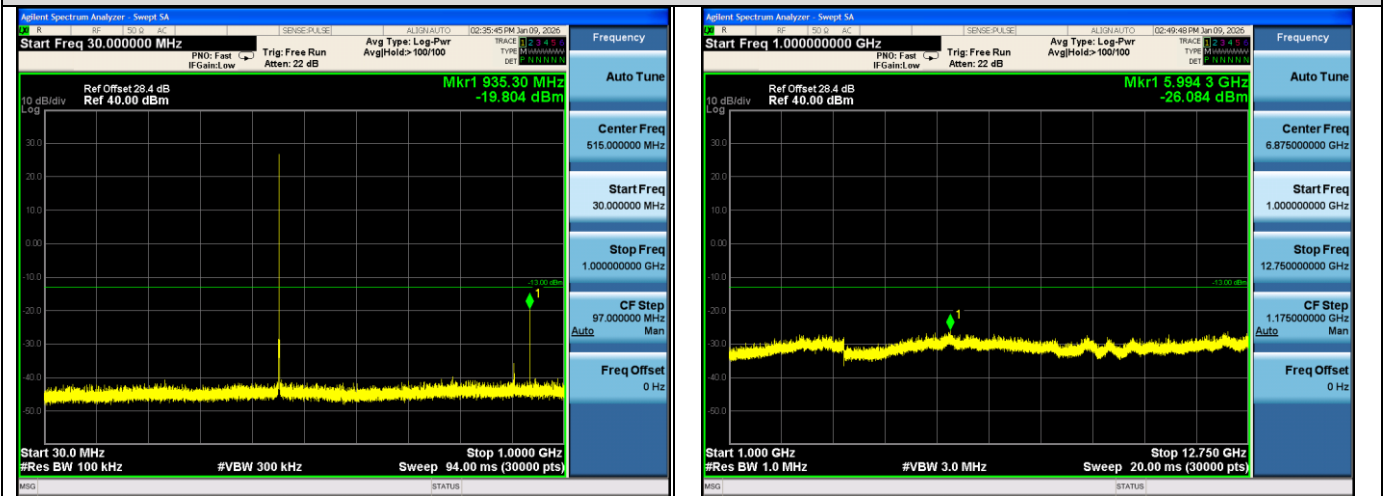


12.5kHz, FM modulation, Assigned Frequency:467.6500MHz, 0.5W

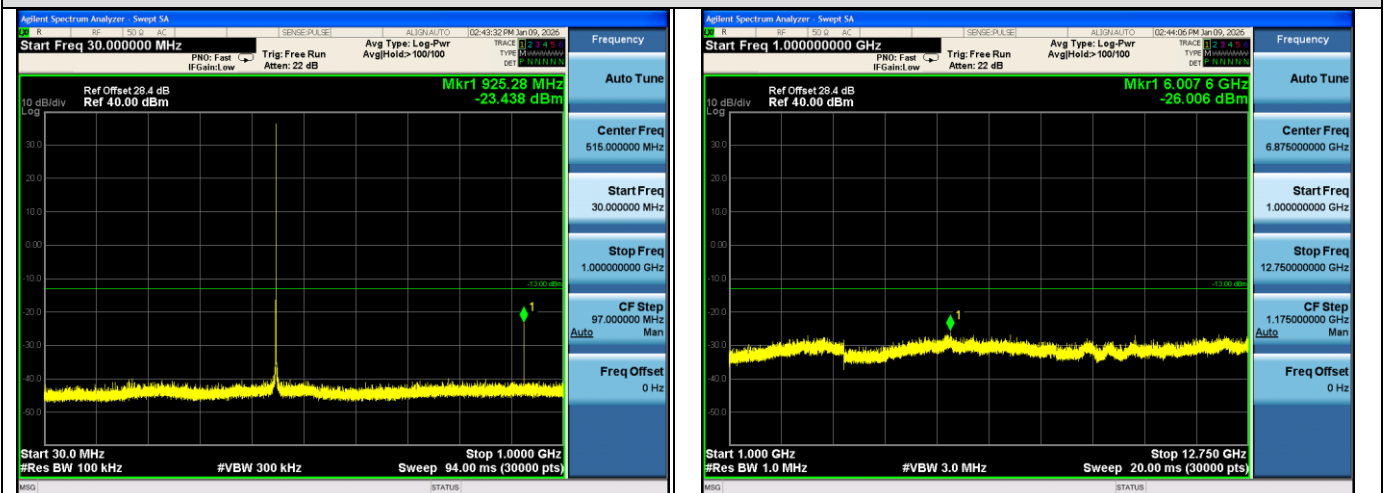


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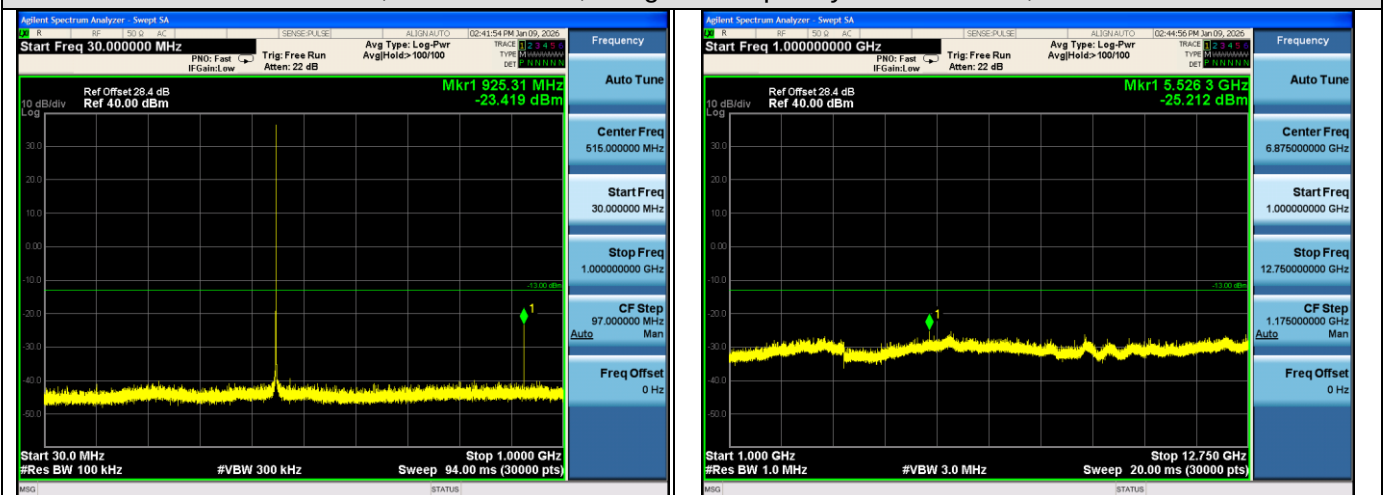
12.5kHz, FM modulation, Assigned Frequency:467.6375MHz, 0.5W



25kHz, FM modulation, Assigned Frequency:462.6375MHz, 4W

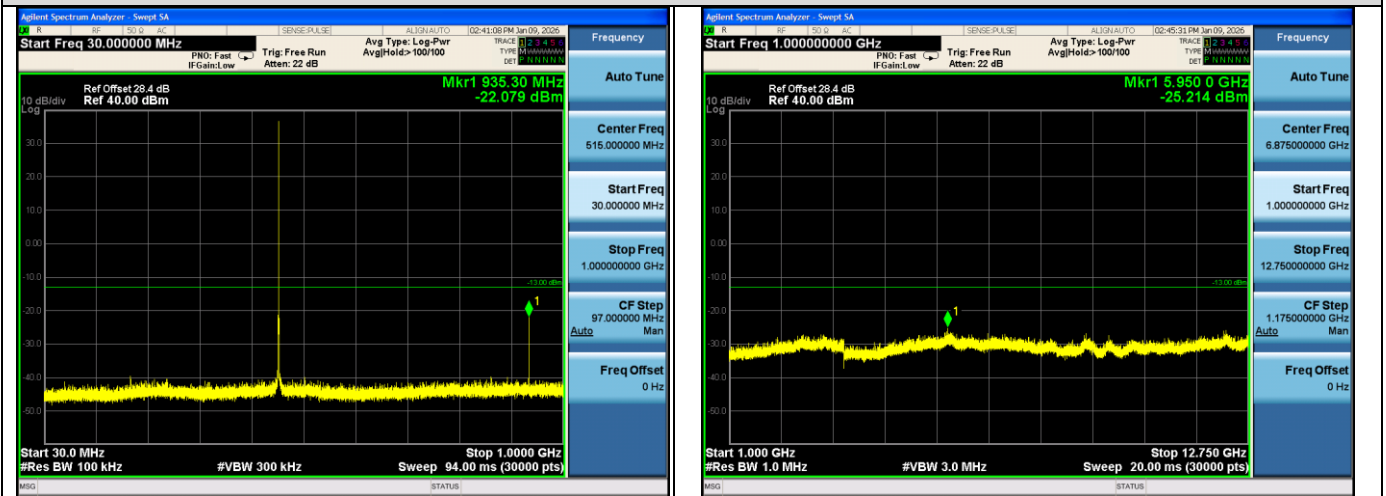


25kHz, FM modulation, Assigned Frequency:462.6500MHz, 4W

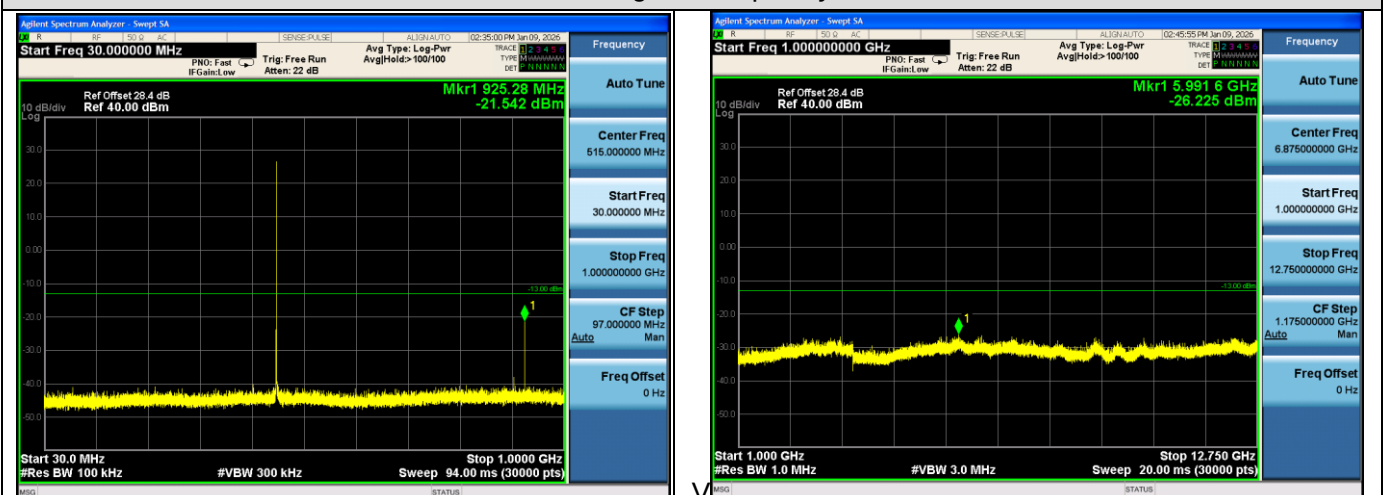


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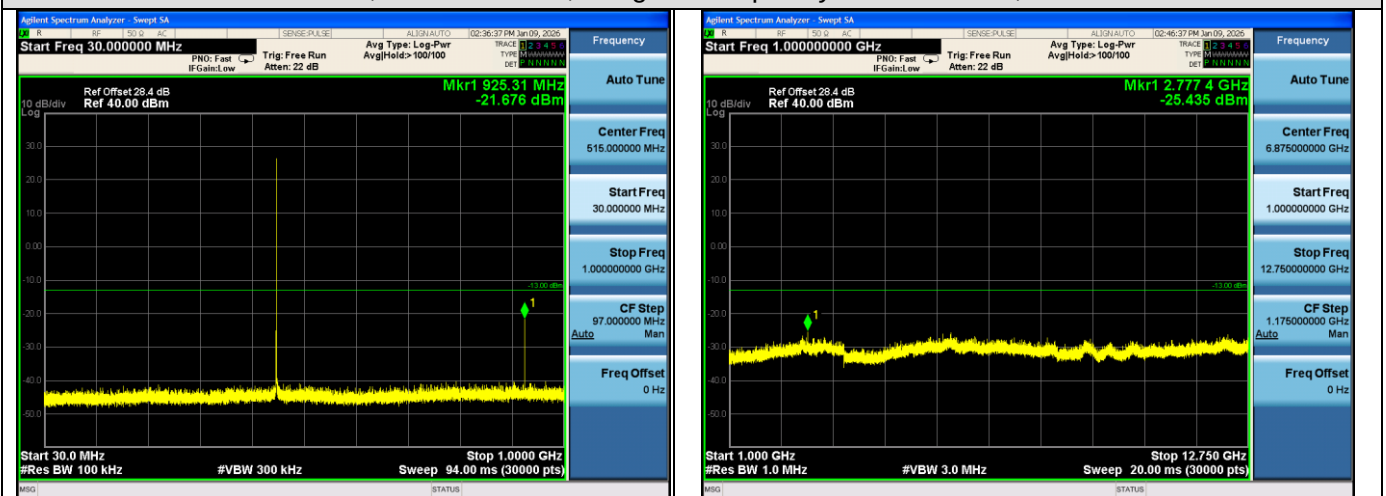
25kHz, FM modulation, Assigned Frequency:467.6500MHz, 4W



25kHz, FM modulation, Assigned Frequency:462.6375MHz, 0.5W

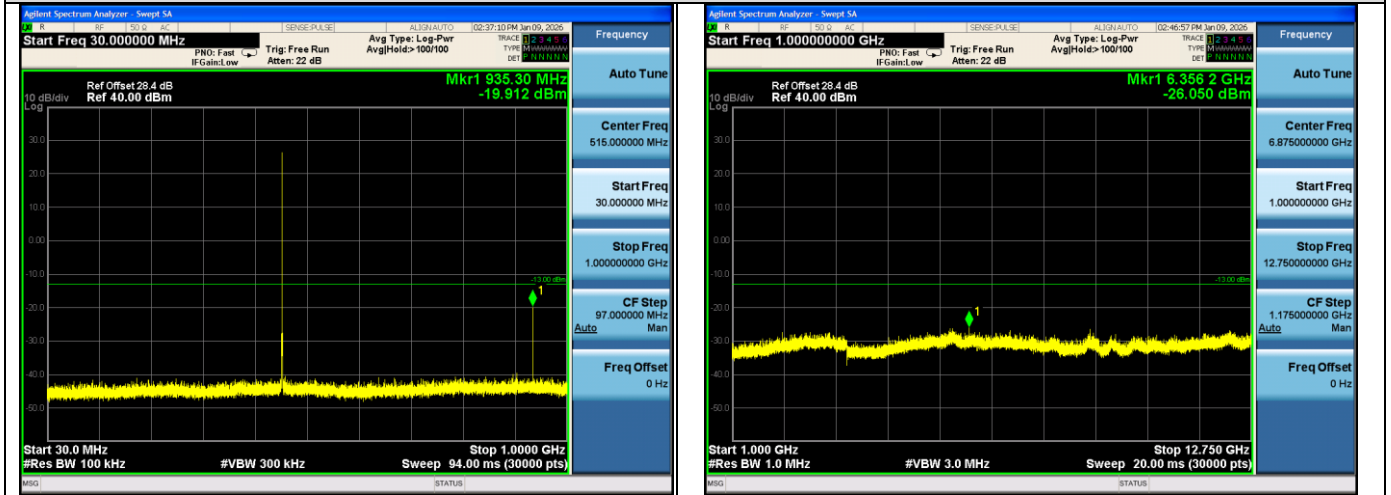


25kHz, FM modulation, Assigned Frequency:462.6500MHz, 0.5W



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25kHz, FM modulation, Assigned Frequency:467.6500MHz, 0.5W



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12. Audio Low Pass Filter Response

12.1 Provisions Applicable

§95.1775 GMRS modulation requirements

Audio filter. Each GMRS transmitter type must include audio frequency low pass filtering, unless it complies with the applicable paragraphs of §95.1779 (without filtering).

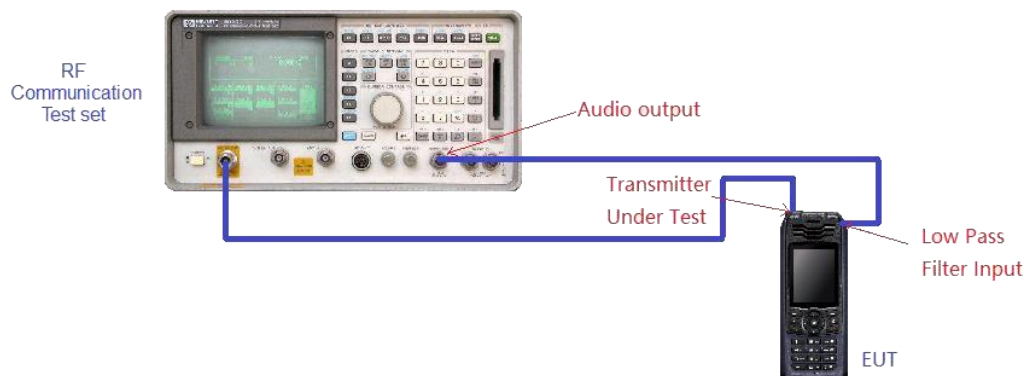
The filter must be between the modulation limiter and the modulated stage of the transmitter.

At any frequency (f in kHz) between 3 and 20 kHz, the filter must have an attenuation of at least $60 \log(f/3)$ dB more than the attenuation at 1 kHz. Above 20 kHz, it must have an attenuation of at least 50 dB more than the attenuation at 1 kHz

12.2 Measurement Procedure

1. The DUT transmitter output port was connected to Modulation Analyzer.
2. Path loss for the measurement included.
3. Press 23.1SPCL on modulation analyzer to enable the external LO from Siglen.
4. Set the Siglen frequency to $F_c + 1.5\text{MHz}$, RF output level to 0dBm without modulation.
5. Transmit the radio and set the audio analyzer to 1 kHz audio frequency and 60% of the maximum deviation.
6. Up the amplitude by 20dB.
7. On DSA, get the reference point to 0dB.
8. Vary the frequency on audio analyzer from 3 kHz to 30 kHz, record the audio tone from DSA.

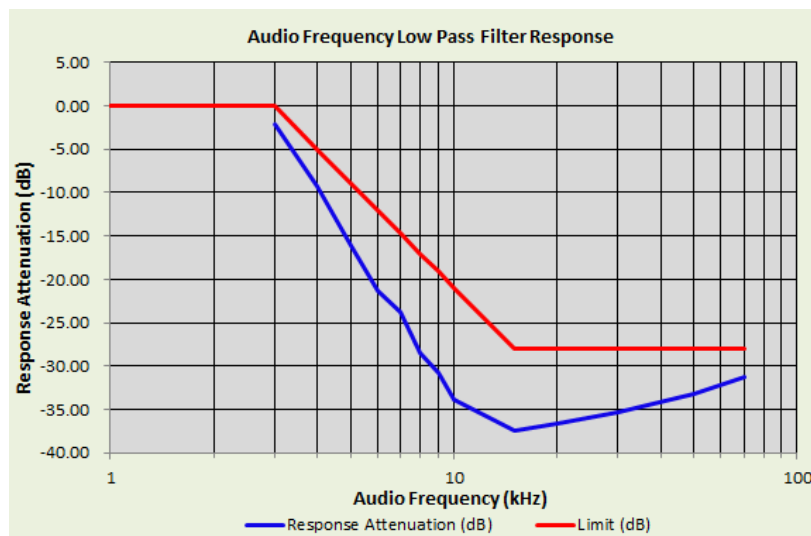
12.3 Measurement Setup



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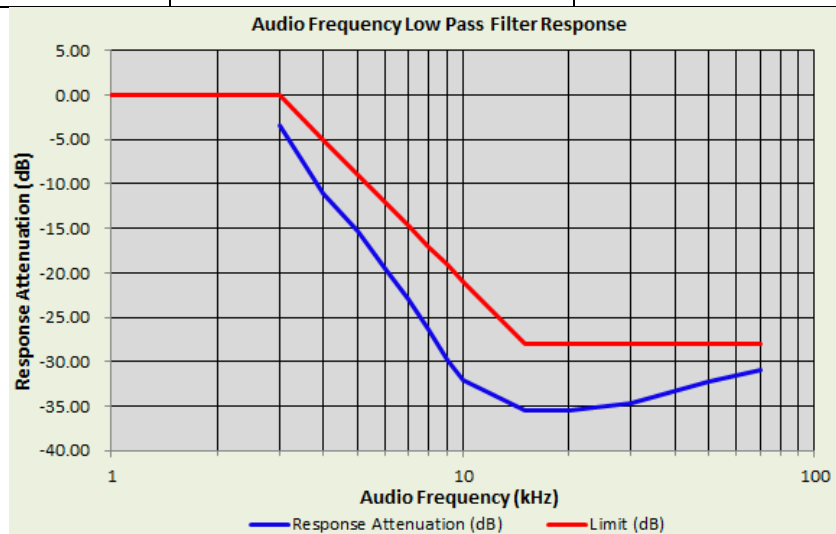
12.4 Measurement Result

12.5kHz, FM modulation, Assigned Frequency:462.6375MHz-4W		
Audio Frequency (kHz)	Response Attenuation (dB)	Limit (dB)
1	0	/
3	-2.14	0.00
4	-9.35	-5.00
5	-16.09	-8.87
6	-21.36	-12.04
7	-23.79	-14.72
8	-28.52	-17.04
9	-30.70	-19.08
10	-33.88	-20.92
15	-37.52	-28.00
20	-36.63	-28.00
30	-35.36	-28.00
50	-33.14	-28.00
70	-31.25	-28.00



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25kHz, FM modulation, Assigned Frequency:462.6375MHz-4W		
Audio Frequency (kHz)	Response Attenuation (dB)	Limit (dB)
1	0	/
3	-3.33	0.00
4	-11.14	-5.00
5	-15.26	-8.87
6	-19.48	-12.04
7	-23.01	-14.72
8	-26.40	-17.04
9	-29.82	-19.08
10	-32.03	-20.92
15	-35.53	-28.00
20	-35.52	-28.00
30	-34.60	-28.00
50	-32.25	-28.00
70	-30.95	-28.00



Note: All the test frequencies was tested, but only the worst data be recorded in this part.

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC00319260101AP01

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Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC00319260101AP02

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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.

-----End of Report-----

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