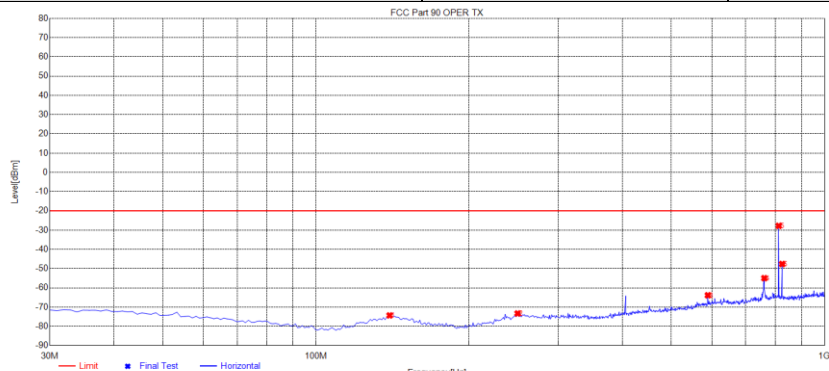
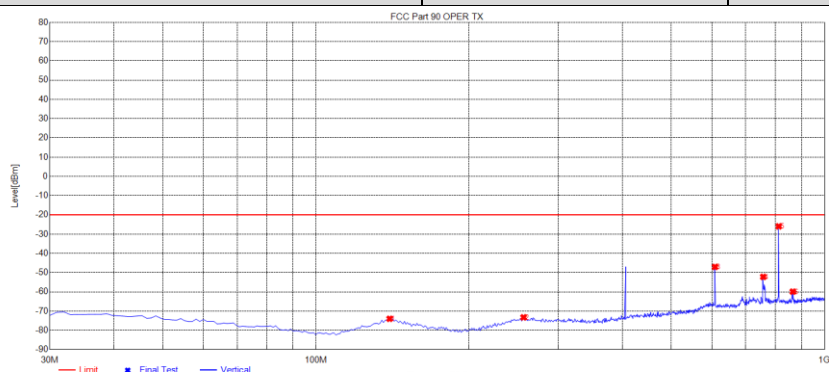


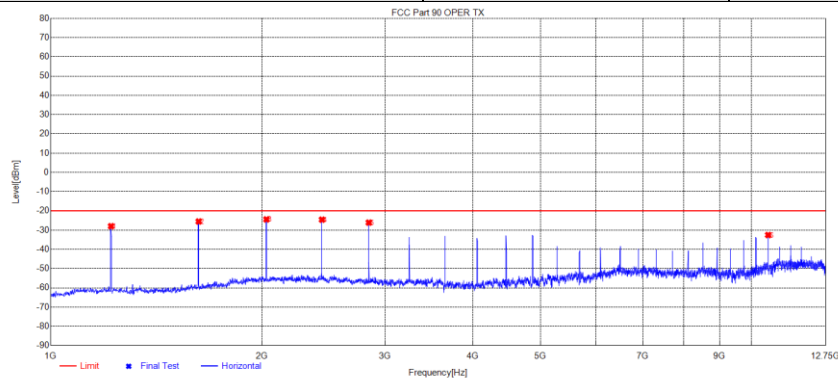
Radiated Emissions 30MHz to 1GHz								
Test Mode:	TX:406.125MHz-4FSK-1W			Polarity:		Horizontal		
FCC Part 90 OPER TX 								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	139.61	-101.28	-74.31	-20.00	54.31	26.97	125	Horizontal
2	249.22	-100.69	-73.29	-20.00	53.29	27.40	231	Horizontal
3	589.69	-97.48	-63.83	-20.00	43.83	33.65	10	Horizontal
4	761.38	-90.33	-54.95	-20.00	34.95	35.38	284	Horizontal
5	812.79	-64.79	-27.77	-20.00	7.77	37.02	81	Horizontal
6	825.4	-84.31	-47.60	-20.00	27.60	36.71	275	Horizontal

Test Mode:	TX:406.125MHz-4FSK-1W			Polarity:		Vertical		
FCC Part 90 OPER TX 								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	139.61	-100.94	-73.97	-20.00	53.97	26.97	262	Vertical
2	256.01	-100.61	-73.23	-20.00	53.23	27.38	61	Vertical
3	609.09	-81.12	-47.02	-20.00	27.02	34.10	149	Vertical
4	757.5	-87.39	-52.20	-20.00	32.20	35.19	210	Vertical
5	812.79	-62.99	-25.97	-20.00	5.97	37.02	192	Vertical
6	866.14	-96.20	-59.89	-20.00	39.89	36.31	219	Vertical

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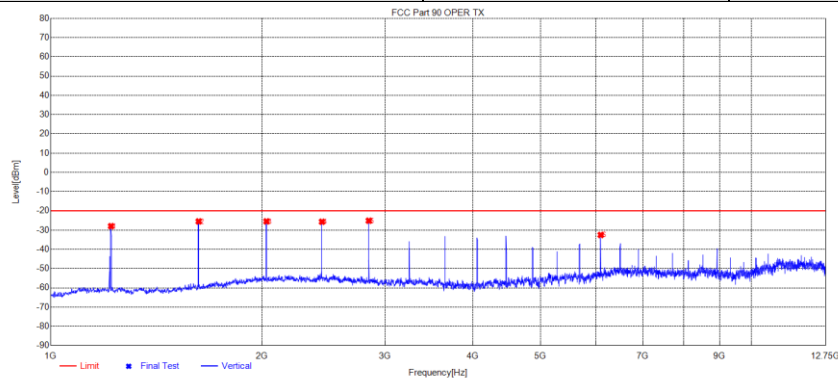
Radiated Emissions Above 1GHz

Test Mode:	TX:406.125MHz-4FSK-1W	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	1218.5719	-23.88	-27.96	-20.00	7.96	-4.08	103	Horizontal
2	1625.1625	-22.92	-25.51	-20.00	5.51	-2.59	310	Horizontal
3	2030.5781	-26.48	-24.43	-20.00	4.43	2.05	360	Horizontal
4	2437.1687	-27.04	-24.57	-20.00	4.57	2.47	347	Horizontal
5	2842.5843	-27.94	-26.10	-20.00	6.10	1.84	328	Horizontal
6	10559.581	-44.91	-32.55	-20.00	12.55	12.36	328	Horizontal

Test Mode:	TX:406.125MHz-4FSK-1W	Polarity:	Vertical
------------	-----------------------	-----------	----------



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	1218.5719	-23.86	-27.94	-20.00	7.94	-4.08	210	Vertical
2	1625.1625	-22.88	-25.47	-20.00	5.47	-2.59	152	Vertical
3	2030.5781	-27.51	-25.46	-20.00	5.46	2.05	144	Vertical
4	2437.1687	-28.12	-25.65	-20.00	5.65	2.47	96	Vertical
5	2842.5843	-26.95	-25.11	-20.00	5.11	1.84	152	Vertical
6	6091.7842	-39.39	-32.52	-20.00	12.52	6.87	152	Vertical

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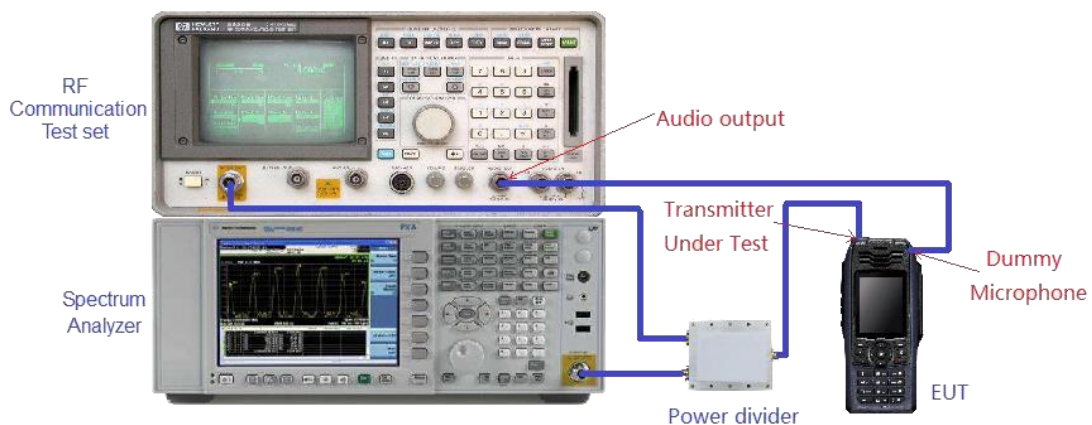
8.5 Emission Mask Measurement Part

The detailed procedure employed for Emission Mask measurements are specified as following:

-Connect the equipment as illustrated.

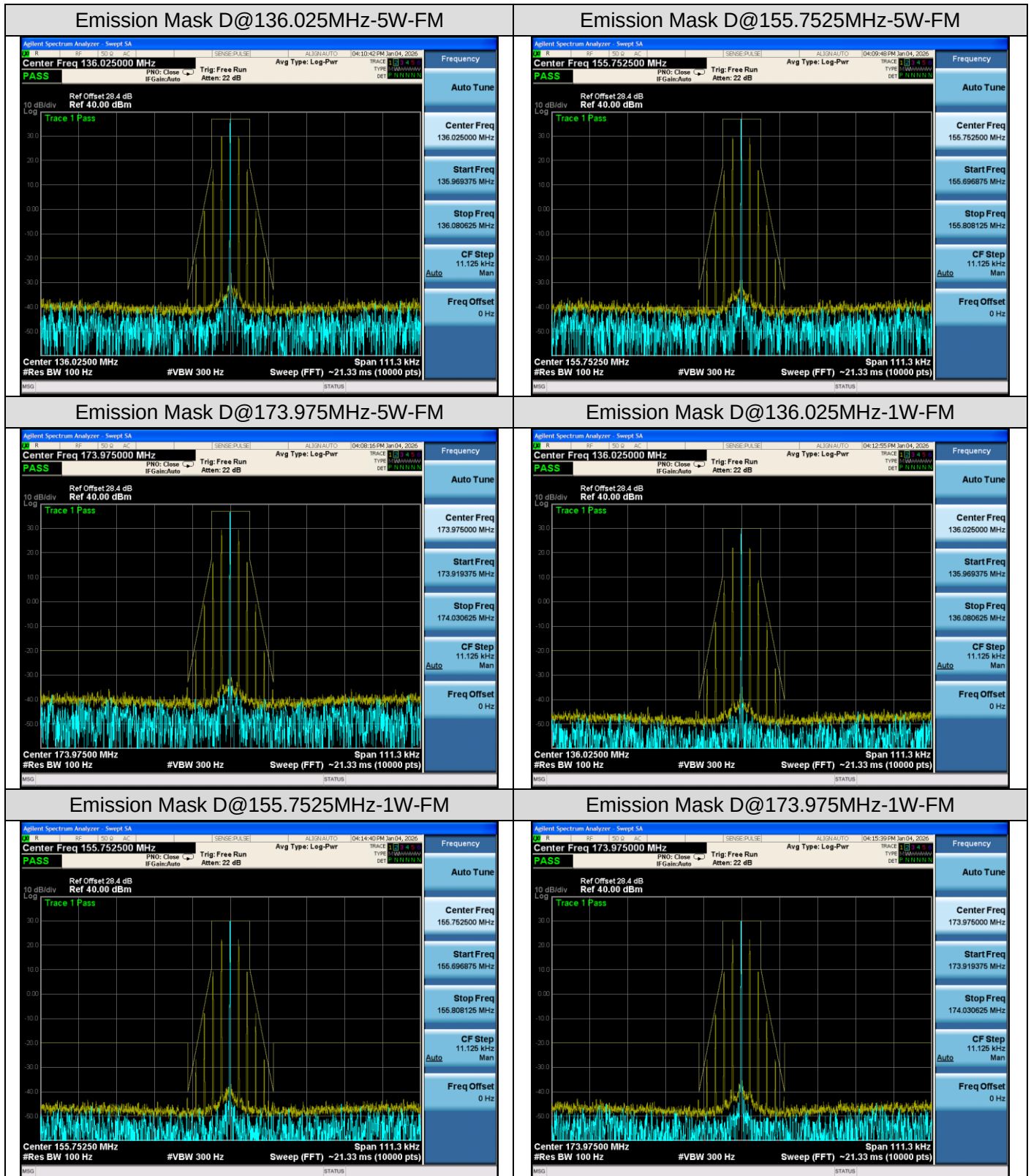
-Spectrum set as follow:

1. Centre frequency = fundamental frequency, Span=50kHz for 12.5kHz channel spacing, RBW=100Hz, VBW=300Hz for 12.5kHz, Sweep = auto, Detector function = peak, Trace = max hold
2. Key the transmitter, and set the level of the unmodulated carrier to a fullscale reference line. This is the 0dB reference for the measurement.
3. Modulate the transmitter with a 2500 Hz sine wave at an input level 16 dB greater than that necessary to produce 50% of rated system deviation (Rated system deviation is 2.5 kHz for 12.5kHz channel spacing). The input level shall be established at the frequency of maximum response of the audio modulating circuit.
4. Transmitters employing digital modulation techniques that bypass the limiter and the audio low-pass filter shall be modulated as specified by the manufacturer.
5. Measure and record the results in the test report.



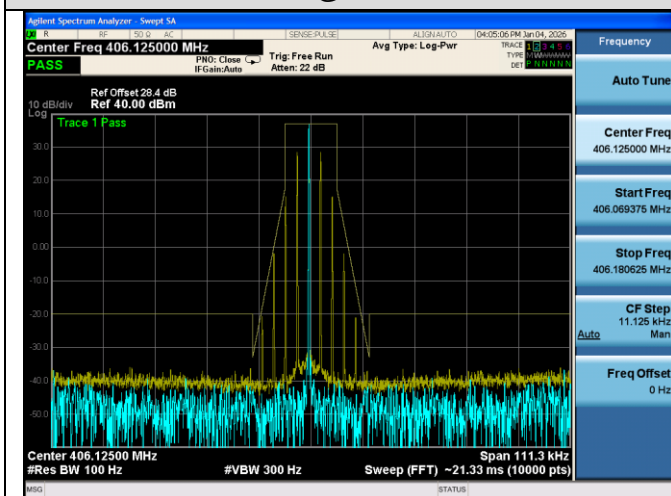
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the 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.

Test plot as follows:

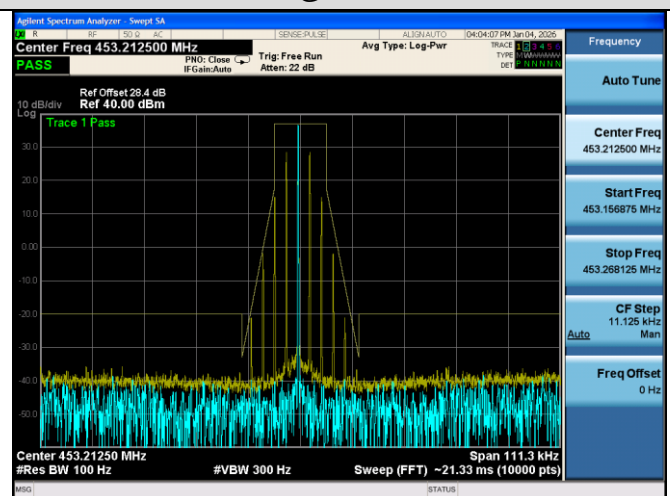


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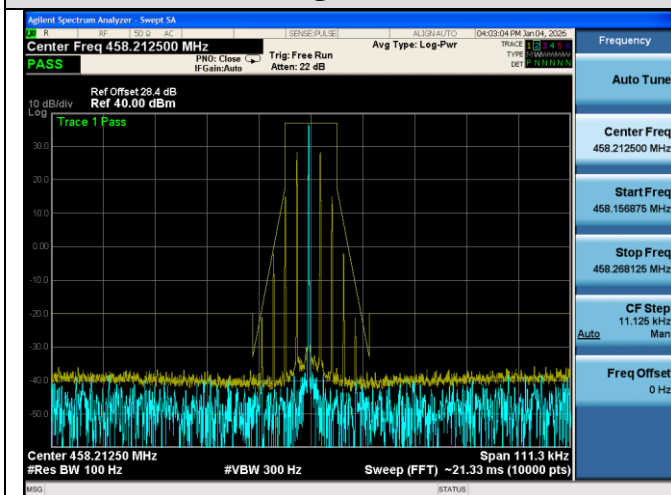
Emission Mask D@406.125MHz-5W-FM



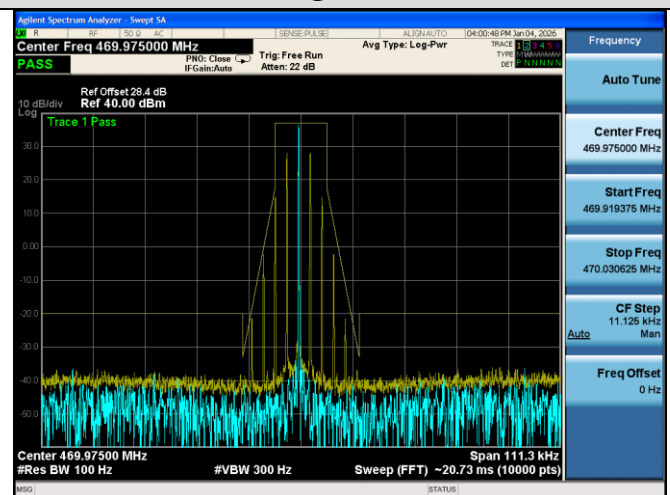
Emission Mask D@453.2125MHz-5W-FM



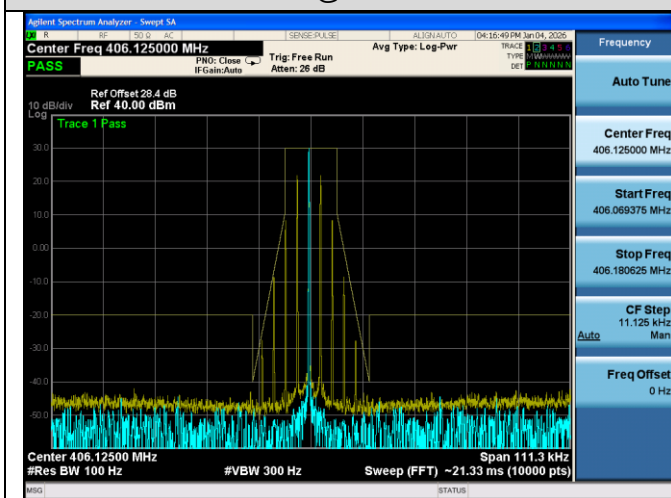
Emission Mask D@458.2125MHz-5W-FM



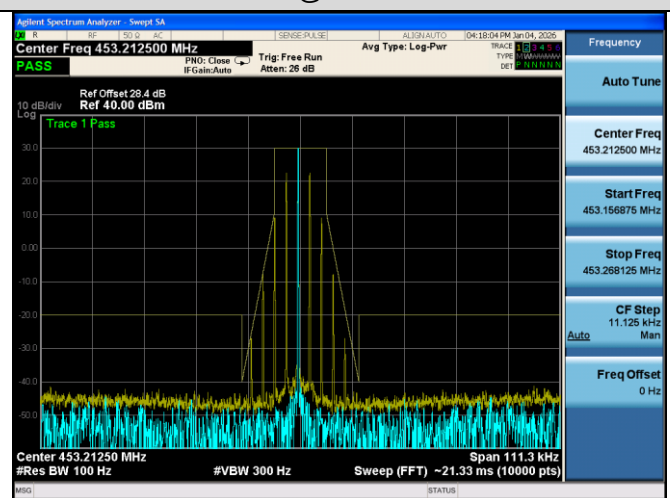
Emission Mask D@469.975MHz-5W-FM



Emission Mask D@406.125MHz-1W-FM

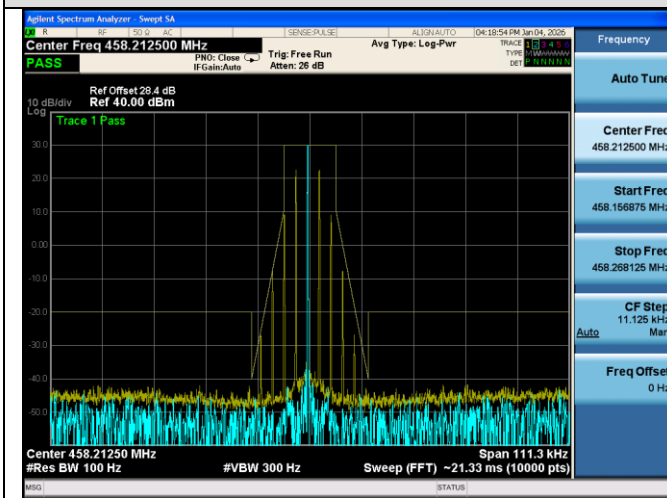


Emission Mask D@453.2125MHz-1W-FM

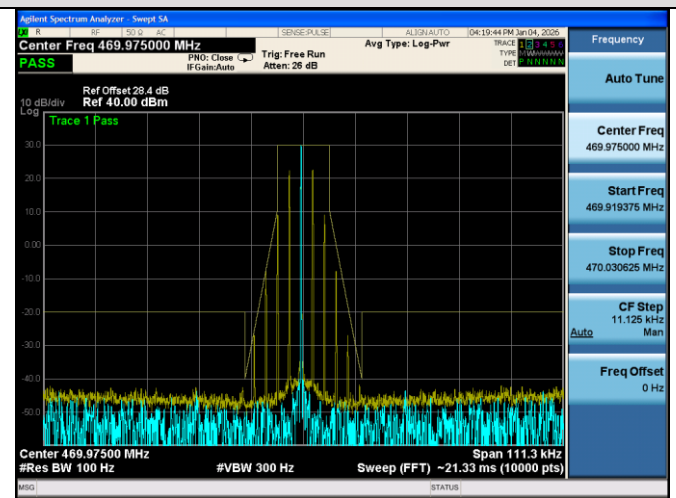


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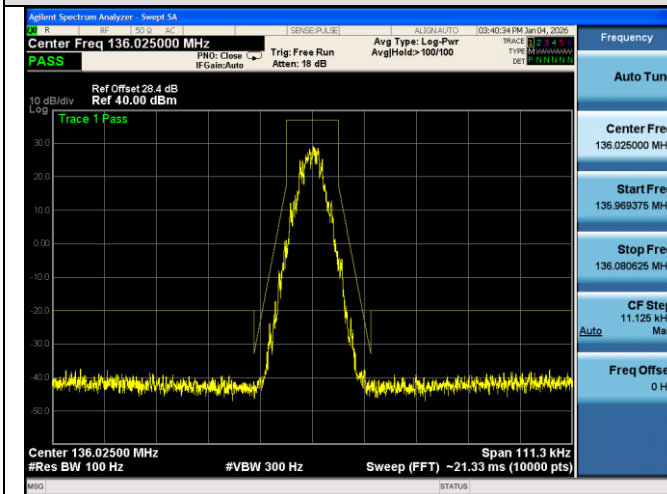
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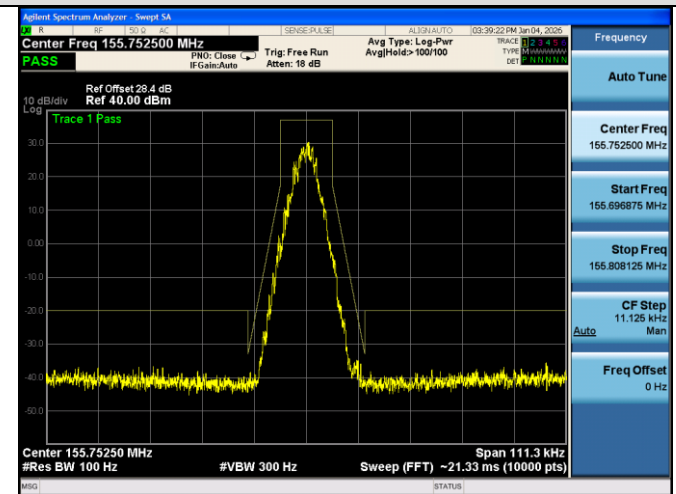
Emission Mask D@469.975MHz-1W-FM



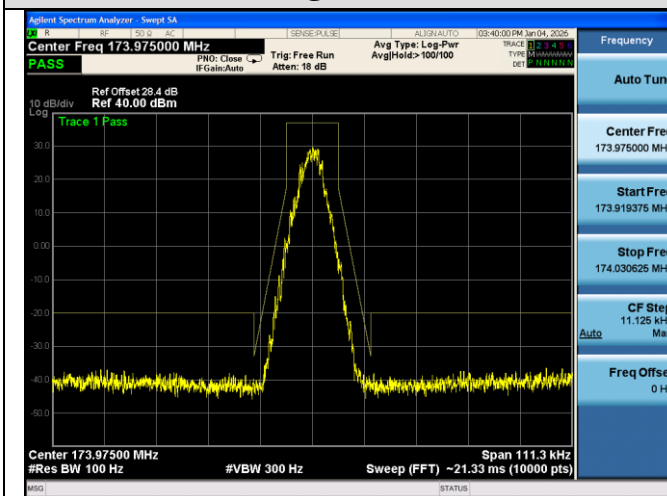
Emission Mask D@136.025MHz-5W-4FSK



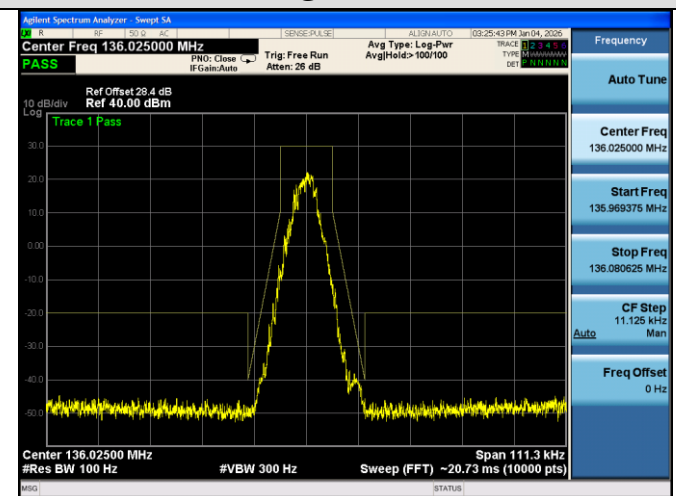
Emission Mask D@155.7525MHz-5W-4FSK



Emission Mask D@173.975MHz-5W-4FSK

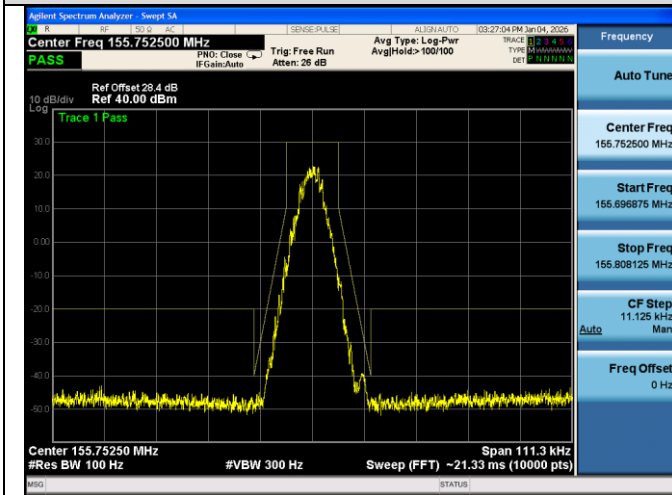


Emission Mask D@136.025MHz-1W-4FSK

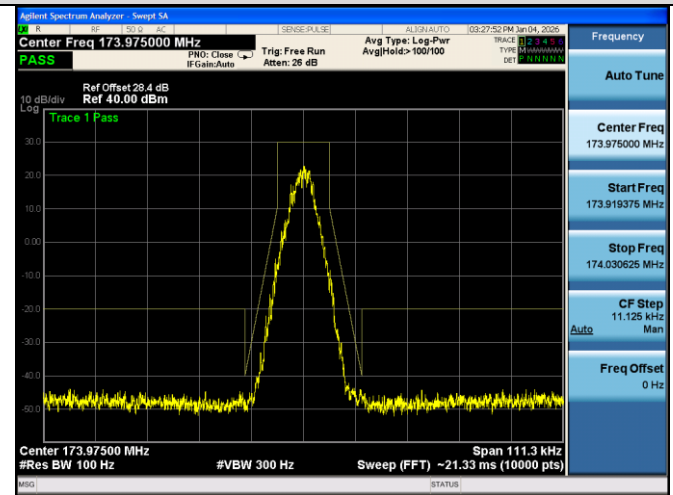


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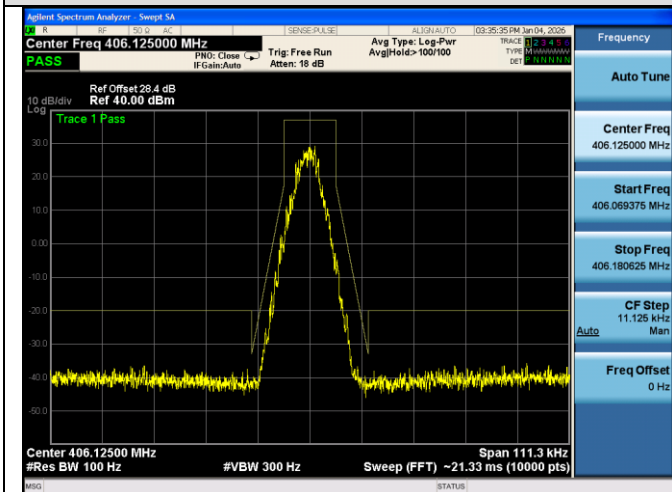
Emission Mask D@155.7525MHz-1W-4FSK



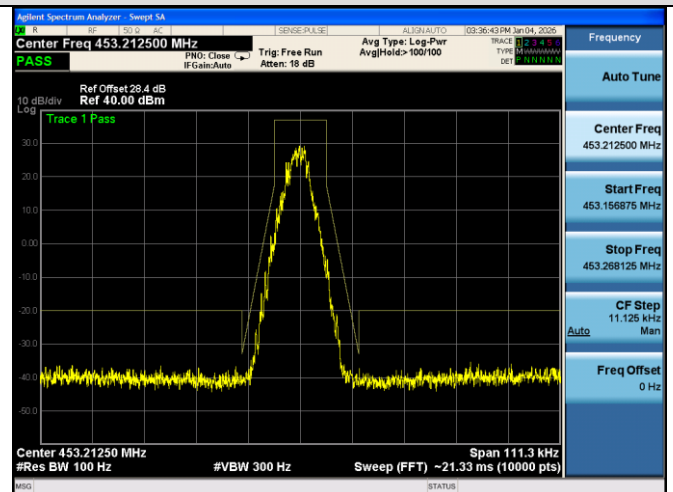
Emission Mask D@173.975MHz-1W-4FSK



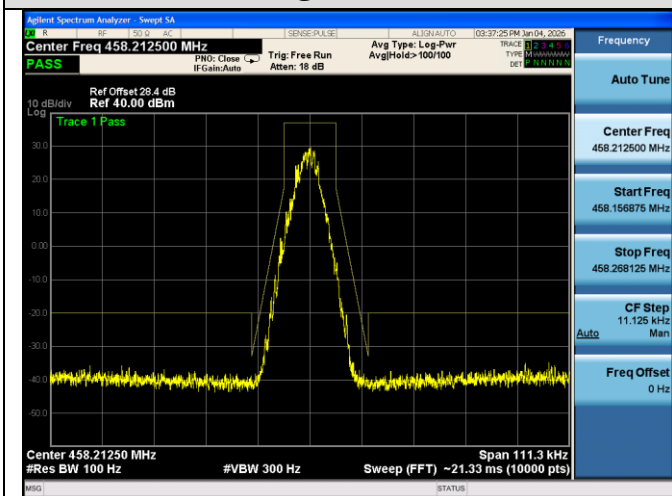
Emission Mask D@406.125MHz-5W-4FSK



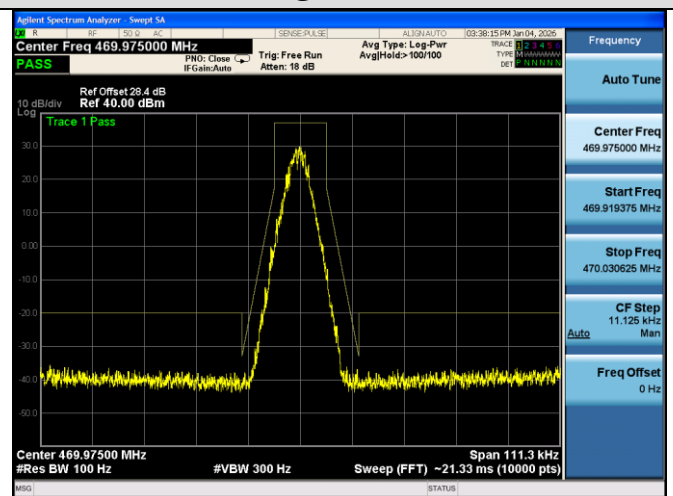
Emission Mask D@453.2125MHz-5W-4FSK



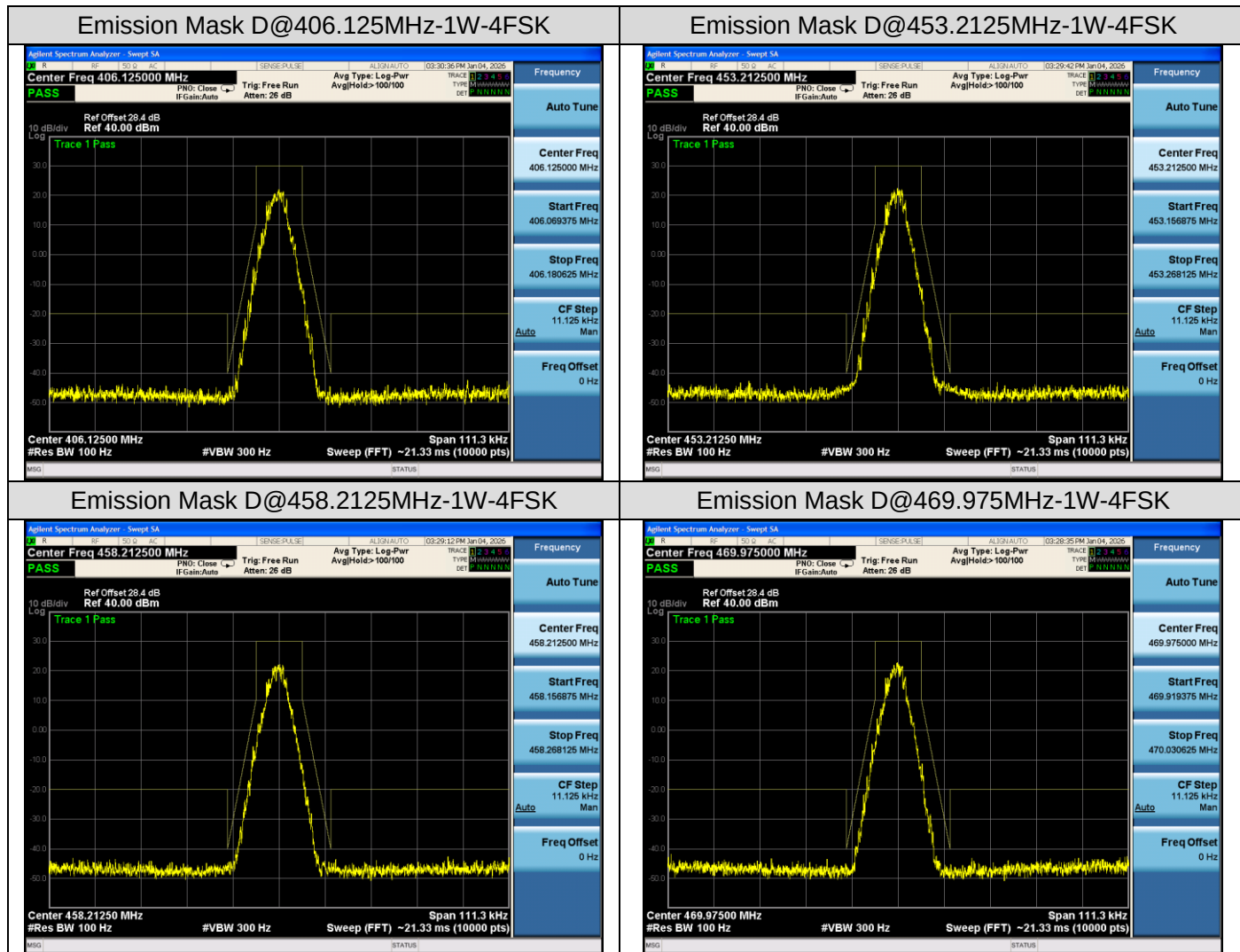
Emission Mask D@458.2125MHz-5W-4FSK



Emission Mask D@469.975MHz-5W-4FSK



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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

9. Modulation Characteristics

9.1 Provisions Applicable

According to FCC§2.1047 and §90.207, for Voice Modulation Communication Equipment, the frequency response of the audio modulation circuit over a range of 100 to 5000Hz shall be measured.

9.2 Measurement Procedure

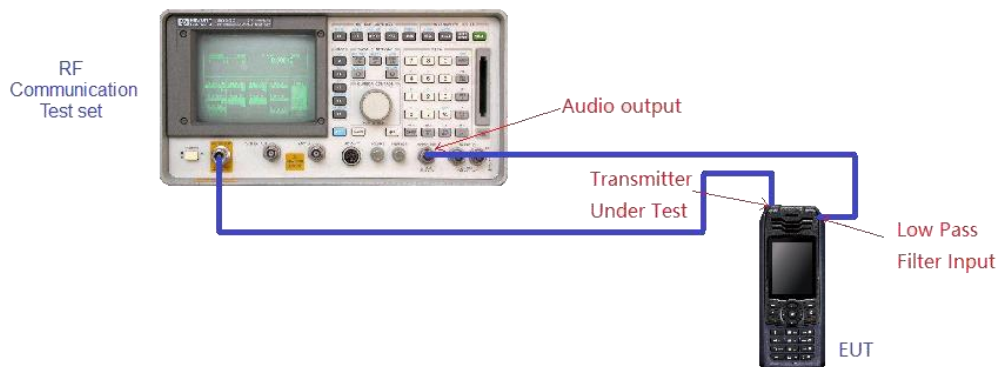
● Modulation Limit

1. Test layout and build equipment as shown below.
2. adjust the audio input for 60% of rated system deviation at 1kHz using this level as a reference (0dB).
3. Vary the input level from -20 to +20dB.
4. Record the frequency deviation obtained as a function of the input level.
5. Repeat step 2 with input frequency changing to 300, 1000, 1500 and 3000Hz in sequence.

● Audio Frequency Response

1. Test layout and build equipment as shown below.
2. Adjust the audio input for 20% of rated system deviation at 1 kHz using this level as a reference (0 dB).
3. Vary the Audio frequency from 100 Hz to 10 kHz and record the frequency deviation.
4. Audio Frequency Response = $20\log_{10} (\text{Deviation of test frequency} / \text{Deviation of 1 kHz reference})$.

9.3 Measurement Setup

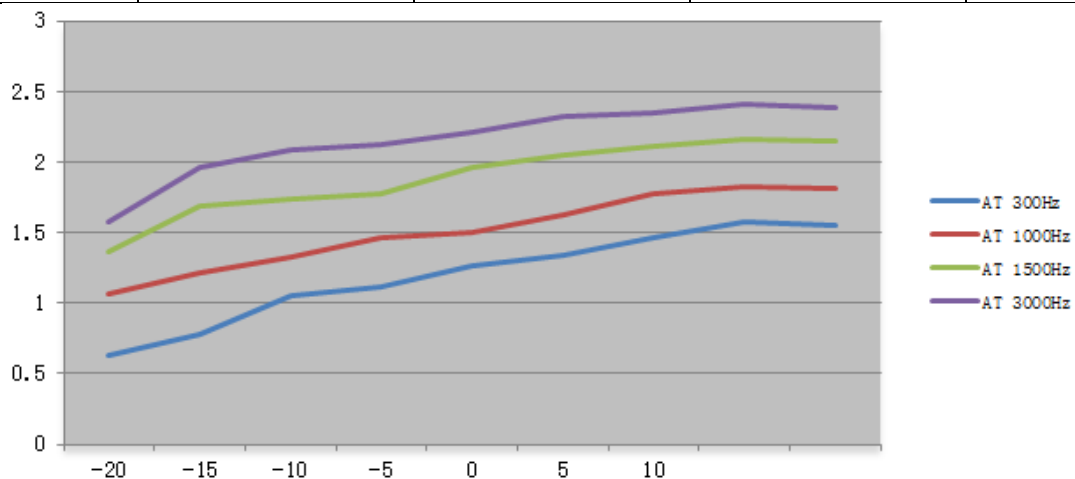


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9.4 Measurement Result

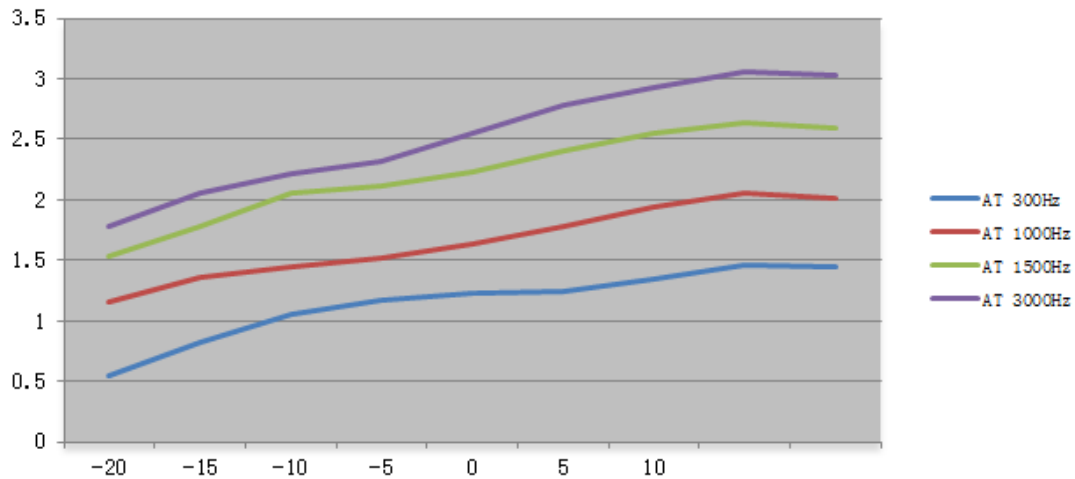
A. Modulation Limit:

12.5kHz, Analog modulation, Assigned Frequency:136.025MHz-High Power				
Modulation Level (dB)	Peak Freq. Deviation At 300 Hz (kHz)	Peak Freq. Deviation At 1000 Hz (kHz)	Peak Freq. Deviation At 1500 Hz (kHz)	Peak Freq. Deviation At 3000 Hz (kHz)
-20	0.63	1.06	1.36	1.58
-15	0.78	1.21	1.69	1.96
-10	1.05	1.32	1.74	2.09
-5	1.12	1.46	1.78	2.12
0	1.26	1.5	1.96	2.21
+5	1.34	1.62	2.05	2.32
+10	1.46	1.78	2.11	2.35
+15	1.58	1.82	2.16	2.41
+20	1.55	1.81	2.15	2.39



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12.5kHz, Analog modulation, Assigned Frequency:406.125MHz-High Power				
Modulation Level (dB)	Peak Freq. Deviation At 300 Hz (kHz)	Peak Freq. Deviation At 1000 Hz (kHz)	Peak Freq. Deviation At 1500 Hz (kHz)	Peak Freq. Deviation At 3000 Hz (kHz)
-20	0.55	1.15	1.53	1.78
-15	0.82	1.36	1.78	2.06
-10	1.06	1.45	2.05	2.21
-5	1.17	1.52	2.11	2.32
0	1.22	1.63	2.23	2.55
+5	1.24	1.78	2.41	2.78
+10	1.34	1.94	2.55	2.93
+15	1.46	2.05	2.63	3.05
+20	1.45	2.01	2.59	3.03

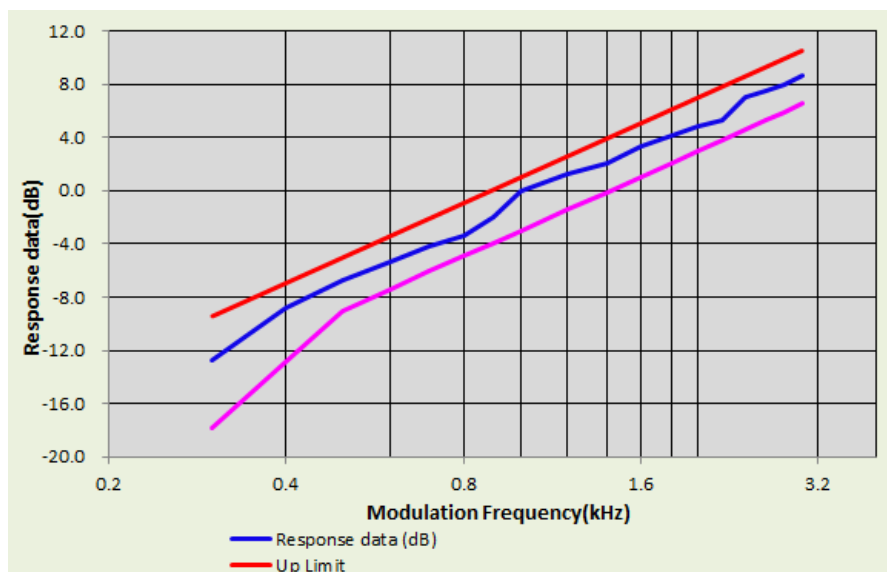


Note: All the modes had been tested, but only the worst data recorded in the report.

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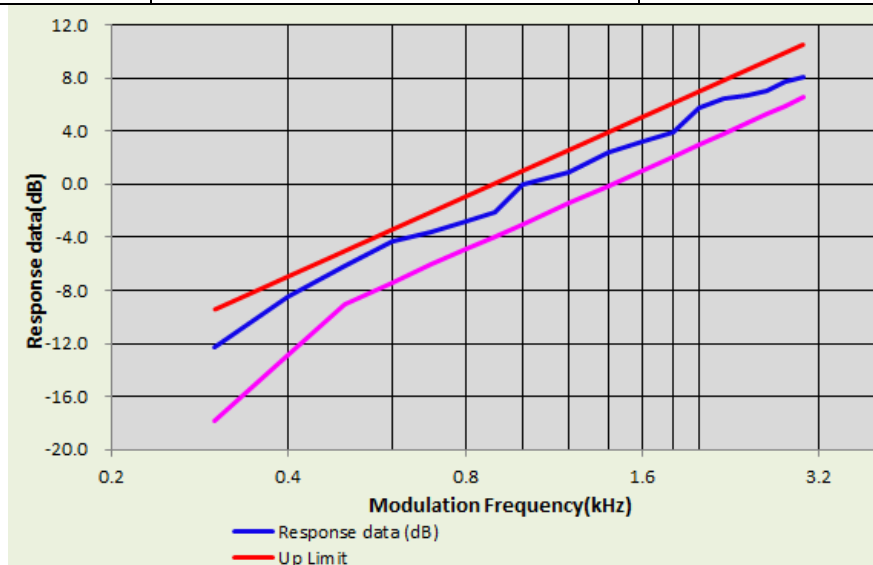
B. Audio Frequency Response:

12.5kHz, Analog modulation, Assigned Frequency:136.025MHz-5W		
Frequency (Hz)	Deviation (kHz)	Audio Frequency Response(dB)
100	--	--
200	--	--
300	0.21	-12.74
400	0.33	-8.81
500	0.42	-6.72
600	0.49	-5.38
700	0.56	-4.22
800	0.62	-3.33
900	0.72	-2.03
1000	0.91	0.00
1200	1.05	1.24
1400	1.16	2.11
1600	1.33	3.30
1800	1.46	4.11
2000	1.59	4.85
2400	1.68	5.33
2500	2.05	7.05
2800	2.16	7.51
3000	2.28	7.98
3200	2.46	8.64



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12.5kHz, Analog modulation, Assigned Frequency:406.125MHz		
Frequency (Hz)	Deviation (kHz)	Audio Frequency Response(dB)
100	--	--
200	--	--
300	0.23	-12.32
400	0.36	-8.43
500	0.47	-6.11
600	0.58	-4.29
700	0.63	-3.57
800	0.69	-2.78
900	0.75	-2.05
1000	0.95	0.00
1200	1.05	0.87
1400	1.26	2.45
1600	1.37	3.18
1800	1.49	3.91
2000	1.84	5.74
2400	1.99	6.42
2500	2.05	6.68
2800	2.12	6.97
3000	2.32	7.76
3200	2.41	8.09



Note: All the modes had been tested, but only the worst data recorded in the report.

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10. Maximum Transmitter Power

10.1 Provisions Applicable

Per FCC §2.1046 and §90.205: Maximum ERP is dependent upon the station's antenna HAAT and required service area.

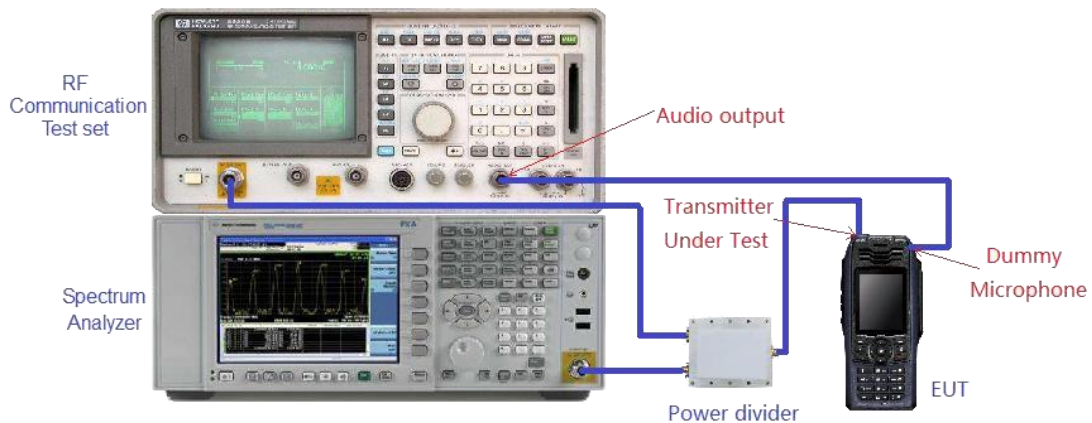
10.2 Measurement Procedure

The RF output of Two-way Radio was conducted to a spectrum analyzer through an appropriate attenuator. In the semi-anechoic chamber, setup as illustrated above the DUT placed on the 0.8m height of Turn Table, rotated the table 45 degree each interval to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power for each degree interval. The "Read Value" is the spectrum reading of maximum power value. The substitution antenna is substituted for DUT at the same position and signals generator (S.G) export the CW signal to the substitution antenna via a TX cable. The receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum radiation power. Record the power level of maximum radiation power from spectrum.

So, the Measured substitution value = Ref level of S.G + TX cables loss – Substituted Antenna Gain.
EIRP = "Read Value" + Measured substitution value + 2.15.

10.3 Measurement Setup

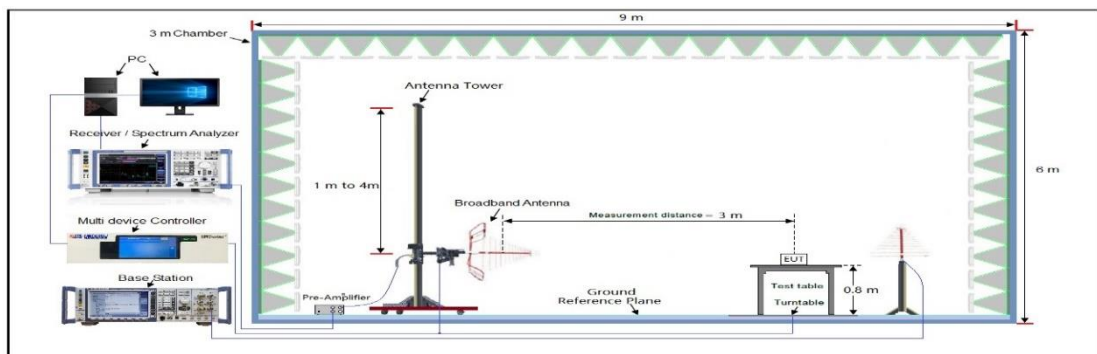
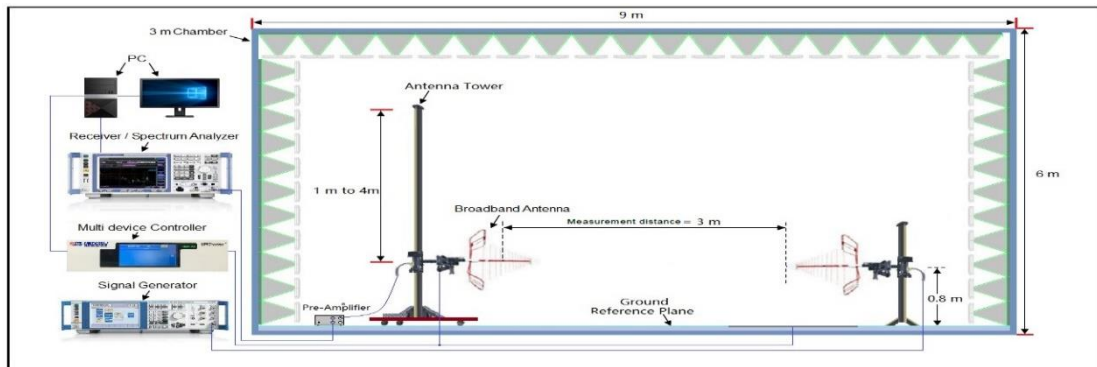
☒ Conducted Output Power:



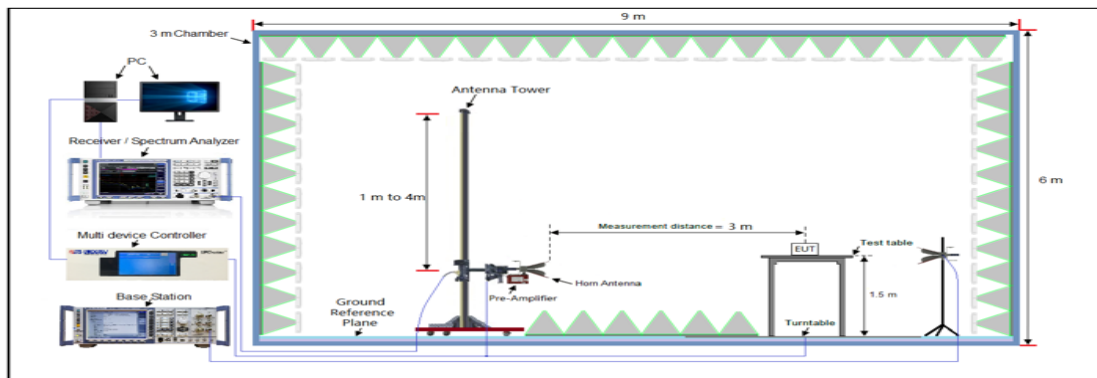
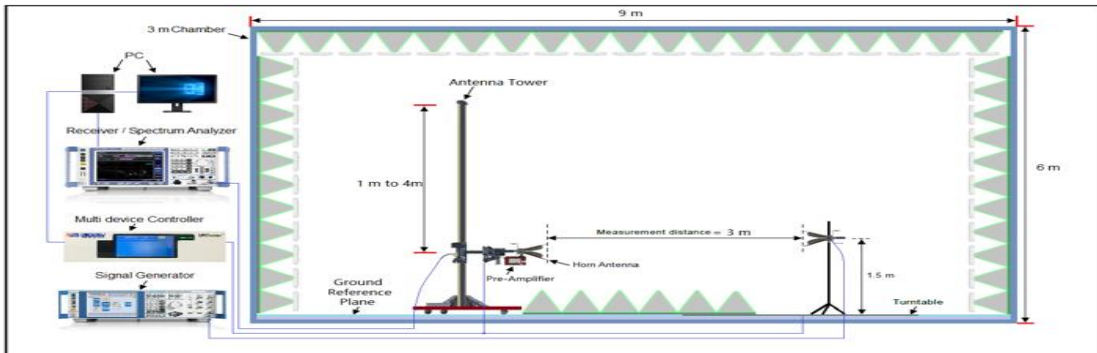
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☒ Effective Radiated Power:

Radiated Below 1GHz



Radiated Above 1 GHz



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10.4 Measurement Result

Conducted Power Measurement Results			
Mode	Channel Separation	Test Channel	Measurement Result (dBm)
			For 36.99dBm(5W)
Analog +Voice	12.5 kHz	Bottom(136.025MHz)	36.80
		Middle(155.7525MHz)	36.84
		Top (173.975MHz)	36.85
Digital (Voice+ Data)	12.5 kHz	Bottom(136.025MHz)	36.63
		Middle(155.7525MHz)	36.72
		Top (173.975MHz)	36.91

Conducted Power Measurement Results			
Mode	Channel Separation	Test Channel	Measurement Result (dBm)
			For 30.00dBm(1W)
Analog +Voice	12.5 kHz	Bottom(136.025MHz)	29.83
		Middle(155.7525MHz)	29.75
		Top (173.975MHz)	29.69
Digital (Voice+ Data)	12.5 kHz	Bottom(136.025MHz)	29.82
		Middle(155.7525MHz)	29.95
		Top (173.975MHz)	29.89

Conducted Power Measurement Results			
Mode	Channel Separation	Test Channel	Measurement Result (dBm)
			For 36.99dBm(5W)
Analog +Voice	12.5 kHz	Bottom(406.125MHz)	36.64
		Middle(453.2125MHz)	36.80
		Middle (458.2125MHz)	36.71
		Top (469.975MHz)	36.48
Digital (Voice+ Data)	12.5 kHz	Bottom(406.125MHz)	36.70
		Middle(453.2125MHz)	36.71
		Middle (458.2125MHz)	36.72
		Top (469.975MHz)	36.59

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Conducted Power Measurement Results			
Mode	Channel Separation	Test Channel	Measurement Result (dBm)
			For 30.00dBm(1W)
Analog +Voice	12.5 kHz	Bottom(406.125MHz)	30.06
		Middle(453.2125MHz)	29.90
		Middle (458.2125MHz)	29.84
		Top (469.975MHz)	29.91
Digital (Voice+ Data)	12.5 kHz	Bottom(406.125MHz)	29.72
		Middle(453.2125MHz)	29.81
		Middle (458.2125MHz)	29.74
		Top (469.975MHz)	29.83

Radiated Power Measurement Results								
Test Mode	Frequency (MHz)	Reading Level (dBuv/m)	Antenna Polarization	S.G. (dBm)	Cable Loss (dB)	Ant.Gain (dBi)	ERP Results (dBm)	Limit (dBm)
Analog + Voice	136.0250	105.85	V	30.62	0.62	6.5	36.50	36.99
	136.0250	105.78	H	30.55	0.62	6.5	36.43	36.99
	155.7525	105.87	V	30.64	0.62	6.5	36.52	36.99
	155.7525	105.81	H	30.58	0.62	6.5	36.46	36.99
	173.9750	105.90	V	30.67	0.62	6.5	36.55	36.99
	173.9750	105.84	H	30.61	0.62	6.5	36.49	36.99
Digital (Voice + Data)	136.0250	105.68	V	30.45	0.62	6.5	36.33	36.99
	136.0250	105.64	H	30.41	0.62	6.5	36.29	36.99
	155.7525	105.78	V	30.55	0.62	6.5	36.43	36.99
	155.7525	105.66	H	30.43	0.62	6.5	36.31	36.99
	173.9750	105.98	V	30.75	0.62	6.5	36.63	36.99
	173.9750	105.94	H	30.71	0.62	6.5	36.59	36.99

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Radiated Power Measurement Results								
Test Mode	Frequency (MHz)	Reading Level (dBuv/m)	Antenna Polarization	S.G. (dBm)	Cable Loss (dB)	Ant.Gain (dBi)	ERP Results (dBm)	Limit (dBm)
Analog +Voice	136.0250	98.87	V	23.64	0.62	6.5	29.52	30.00
	136.0250	98.82	H	23.59	0.62	6.5	29.47	30.00
	155.7525	98.81	V	23.58	0.62	6.5	29.46	30.00
	155.7525	95.74	H	20.51	0.62	6.5	26.39	30.00
	173.9750	98.75	V	23.52	0.62	6.5	29.40	30.00
	173.9750	98.67	H	23.44	0.62	6.5	29.32	30.00
Digital (Voice + Data)	136.0250	98.95	V	23.72	0.62	6.5	29.60	30.00
	136.0250	98.90	H	23.67	0.62	6.5	29.55	30.00
	155.7525	98.95	V	23.72	0.62	6.5	29.60	30.00
	155.7525	98.94	H	23.71	0.62	6.5	29.59	30.00
	173.9750	98.90	V	23.67	0.62	6.5	29.55	30.00
	173.9750	98.77	H	23.54	0.62	6.5	29.42	30.00

Radiated Power Measurement Results								
Test Mode	Frequency (MHz)	Reading Level (dBuv/m)	Antenna Polarization	S.G. (dBm)	Cable Loss (dB)	Ant.Gain (dBi)	ERP Results (dBm)	Limit (dBm)
Analog +Voice	406.1250	105.52	V	30.29	0.85	6.9	36.34	36.99
	406.1250	105.44	H	30.21	0.85	6.9	36.26	36.99
	453.2125	105.68	V	30.45	0.85	6.9	36.50	36.99
	453.2125	105.62	H	30.39	0.85	6.9	36.44	36.99
	458.2125	105.59	V	30.36	0.85	6.9	36.41	36.99
	458.2125	105.50	H	30.27	0.85	6.9	36.32	36.99
	469.9750	105.36	V	30.13	0.85	6.9	36.18	36.99
	469.9750	105.28	H	30.05	0.85	6.9	36.10	36.99
Digital (Voice + Data)	406.1250	105.58	V	30.35	0.85	6.9	36.40	36.99
	406.1250	105.53	H	30.30	0.85	6.9	36.35	36.99
	453.2125	105.57	V	30.34	0.85	6.9	36.39	36.99
	453.2125	105.49	H	30.26	0.85	6.9	36.31	36.99
	458.2125	105.60	V	30.37	0.85	6.9	36.42	36.99
	458.2125	105.53	H	30.30	0.85	6.9	36.35	36.99
	469.9750	105.47	V	30.24	0.85	6.9	36.29	36.99
	469.9750	105.29	H	30.06	0.85	6.9	36.11	36.99

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Radiated Power Measurement Results								
Test Mode	Frequency (MHz)	Reading Level (dBuv/m)	Antenna Polarization	S.G. (dBm)	Cable Loss (dB)	Ant.Gain (dBi)	ERP Results (dBm)	Limit (dBm)
Analog +Voice	406.1250	98.90	V	23.67	0.85	6.9	29.72	30.00
	406.1250	98.81	H	23.58	0.85	6.9	29.63	30.00
	453.2125	98.78	V	23.55	0.85	6.9	29.60	30.00
	453.2125	98.73	H	23.50	0.85	6.9	29.55	30.00
	458.2125	98.72	V	23.49	0.85	6.9	29.54	30.00
	458.2125	98.67	H	23.44	0.85	6.9	29.49	30.00
	469.9750	98.78	V	23.55	0.85	6.9	29.60	30.00
	469.9750	98.71	H	23.48	0.85	6.9	29.53	30.00
Digital (Voice + Data)	406.1250	98.60	V	23.37	0.85	6.9	29.42	30.00
	406.1250	98.51	H	23.28	0.85	6.9	29.33	30.00
	453.2125	98.68	V	23.45	0.85	6.9	29.50	30.00
	453.2125	98.61	H	23.38	0.85	6.9	29.43	30.00
	458.2125	98.62	V	23.39	0.85	6.9	29.44	30.00
	458.2125	98.57	H	23.34	0.85	6.9	29.39	30.00
	469.9750	98.68	V	23.45	0.85	6.9	29.50	30.00
	469.9750	98.64	H	23.41	0.85	6.9	29.46	30.00

Note:

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

- 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
- Measurement Result=Peak Power (Max)

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Attestation of Global Compliance(Shenzhen)Co., Ltd

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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

11. Spurious Emission on Antenna Port

11.1 Provisions Applicable

Please refer to FCC 47 CFR 2.1051, 2.1057 & 90.210 for specification details.

Emissions shall be attenuated below the mean output power of the transmitter as follows:

FCC Rules	Attenuation Limit (dBc)
§ 90.210	At least $50 + 10 \log (P)$ dB

$50 + 10 \log (P_{\text{watts}})$

Note: In general, the worse case attenuation requirement shown above was applied.

Calculation: Limit (dBm) = EL - 50 - 10 log₁₀ (TP)

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

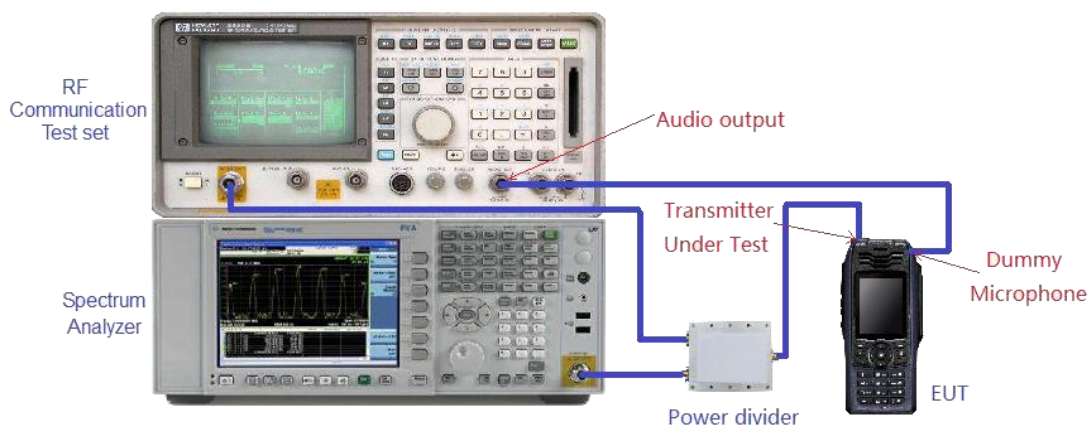
In this application, the EL is P (dBm)

Limit (dBm) = P (dBm) - 50 - 10 log (Pwatts) = -20dBm

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 RBW=1MHz.VBW=3MHz from the 1GHz to 10th Harmonic.
5. 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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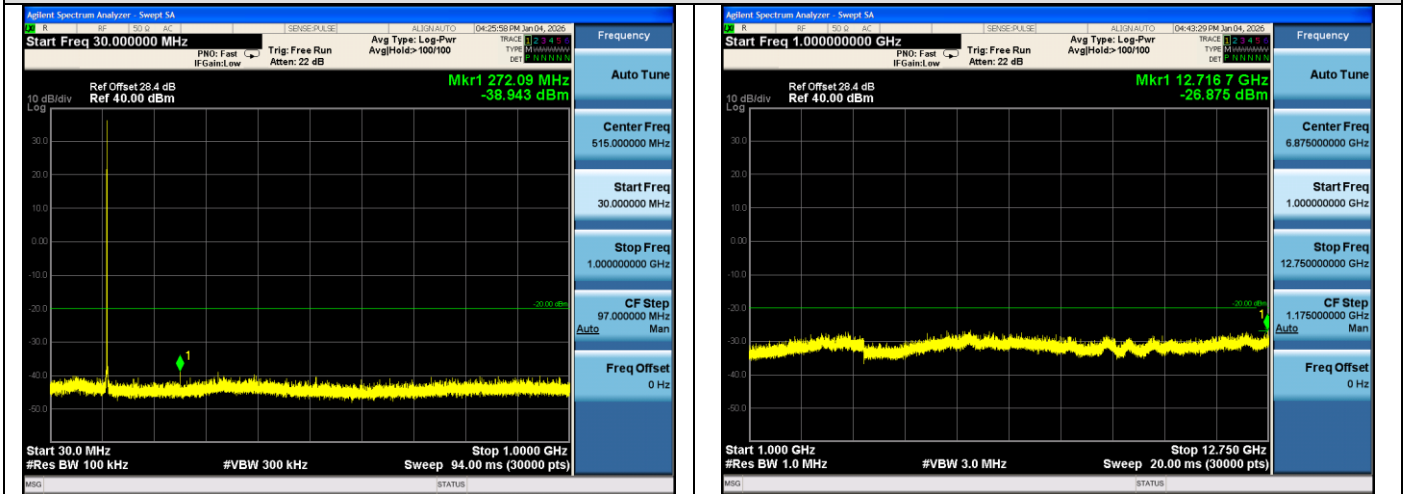
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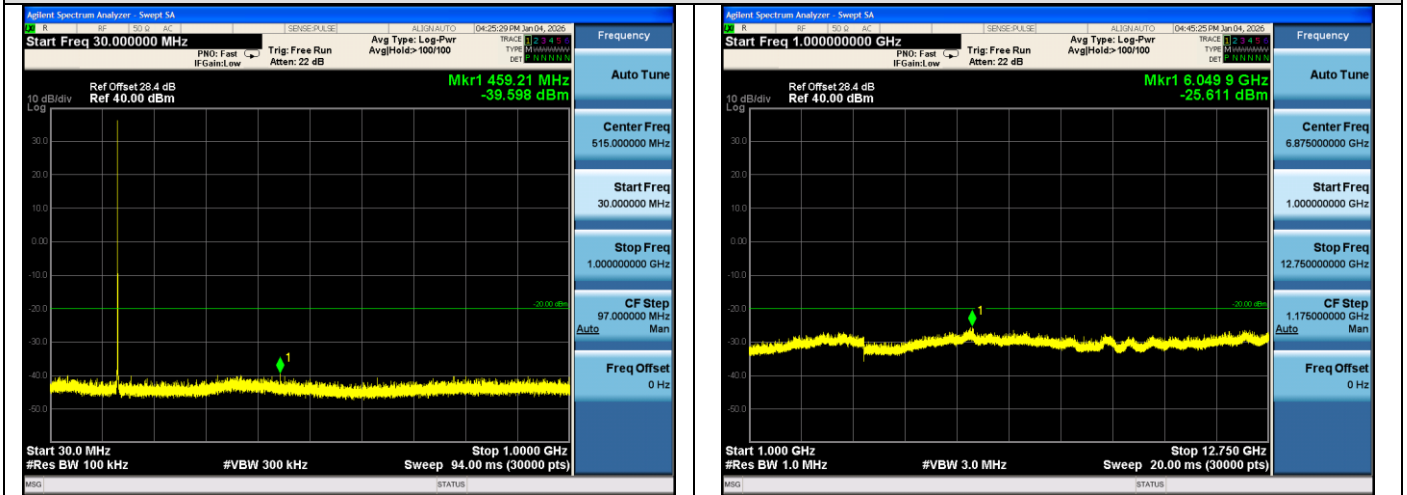
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

11.4 Measurement Result

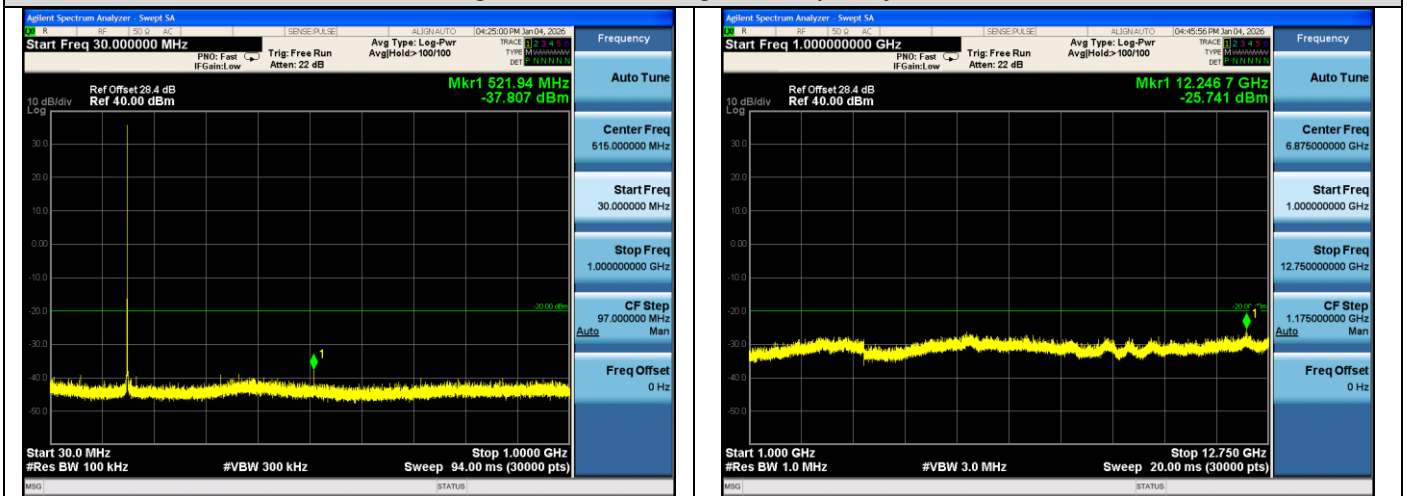
12.5kHz, Analog modulation, Assigned Frequency:136.025MHz, 5W



12.5kHz, Analog modulation, Assigned Frequency:155.7525MHz, 5W

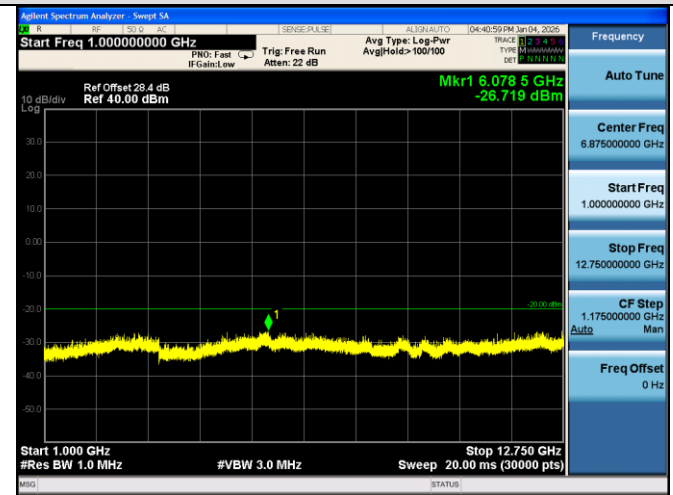
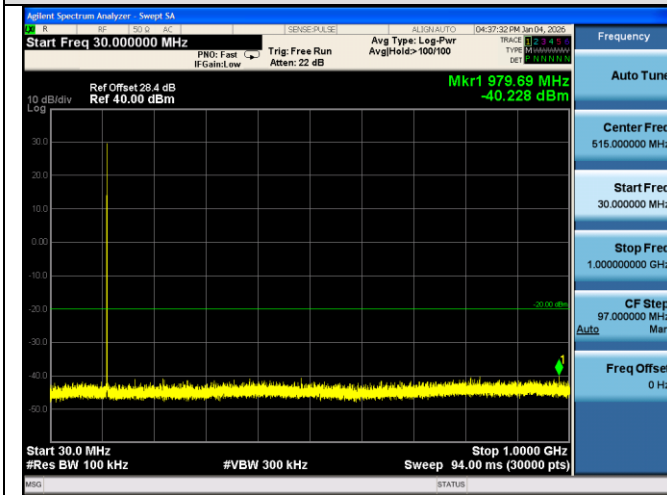


12.5kHz, Analog modulation, Assigned Frequency:173.975MHz, 5W

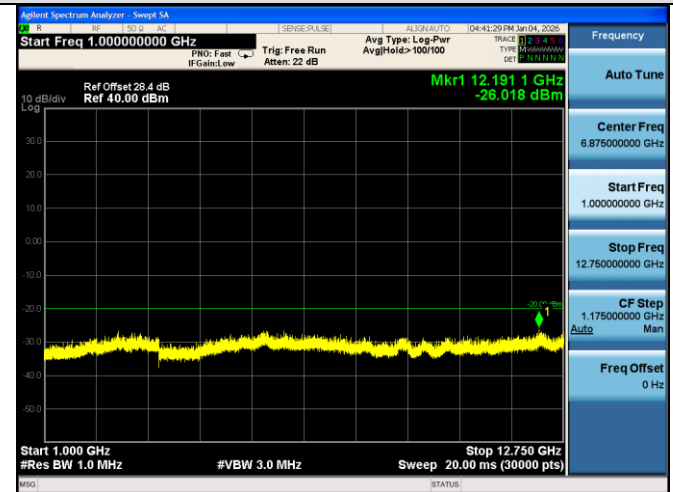
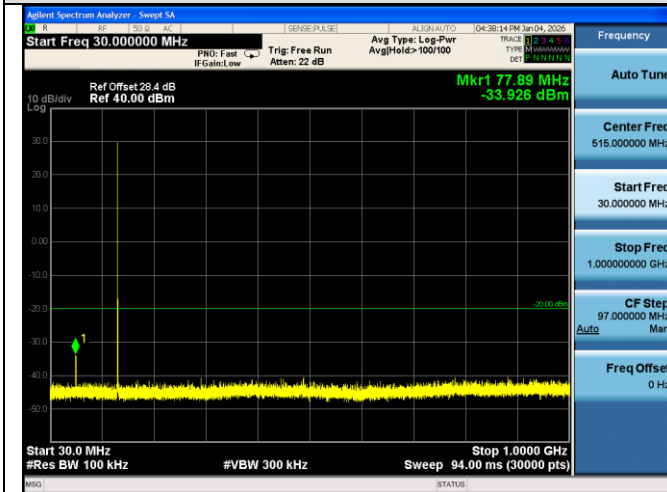


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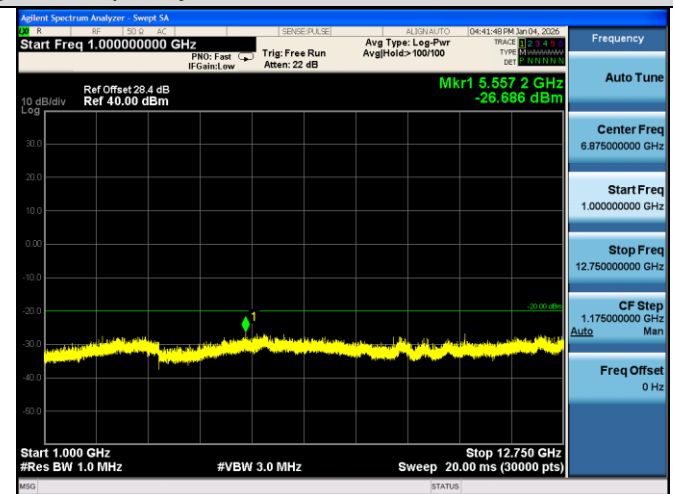
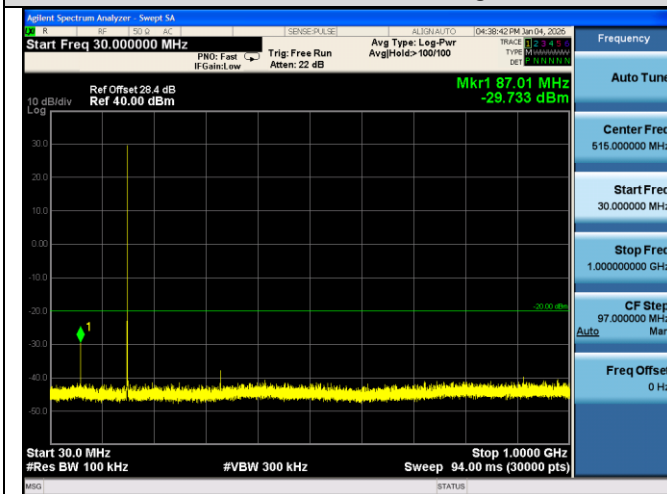
12.5kHz, Analog modulation, Assigned Frequency:136.025MHz, 1W



12.5kHz, Analog modulation, Assigned Frequency:155.7525MHz, 1W

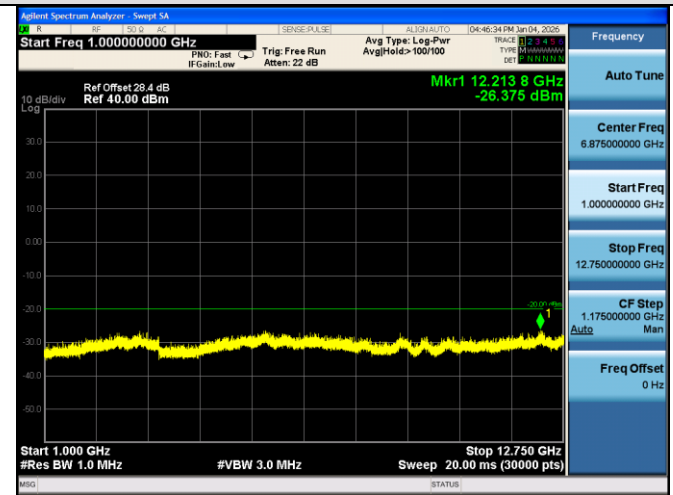
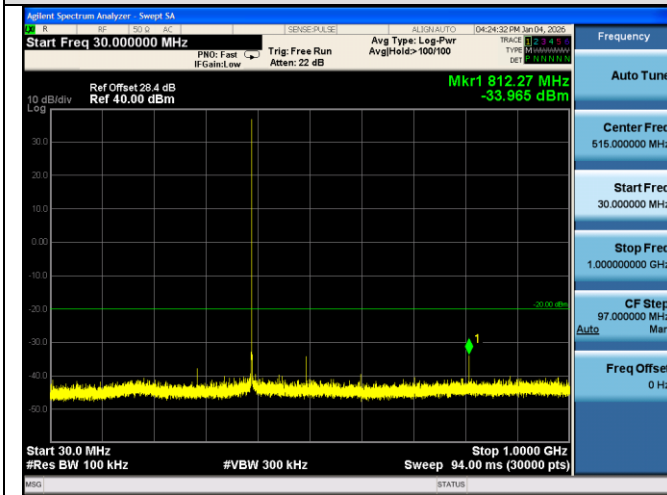


12.5kHz, Analog modulation, Assigned Frequency:173.975MHz, 1W

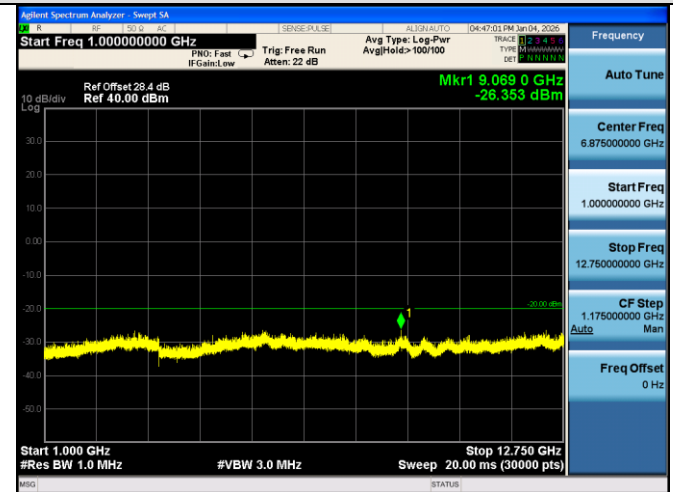
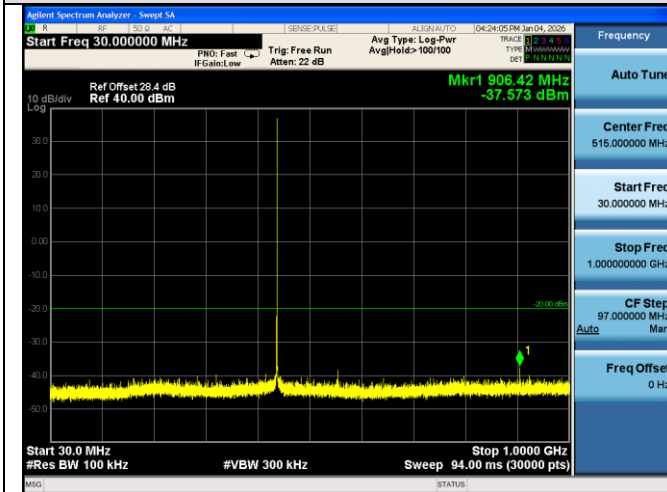


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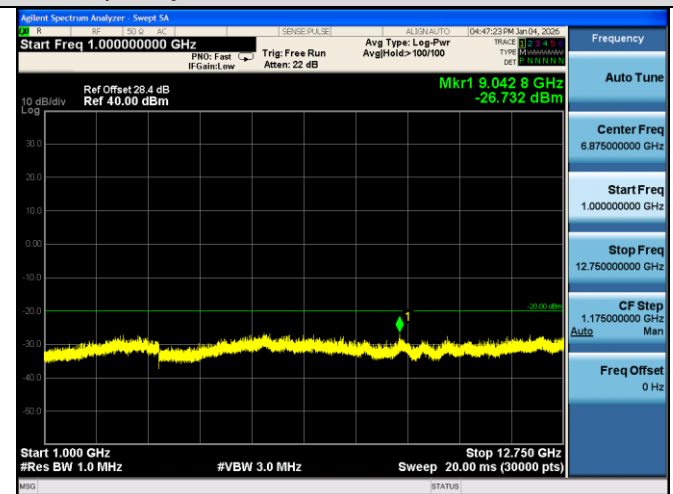
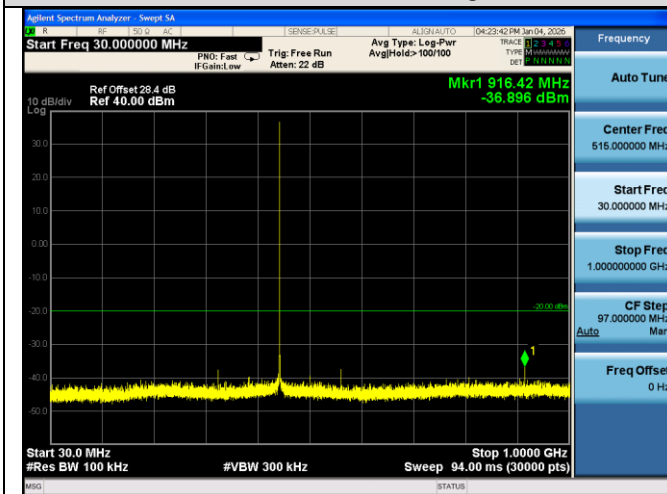
12.5kHz, Analog modulation, Assigned Frequency:406.125MHz, 5W



12.5kHz, Analog modulation, Assigned Frequency:453.2125MHz, 5W



12.5kHz, Analog modulation, Assigned Frequency:458.2125MHz, 5W



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