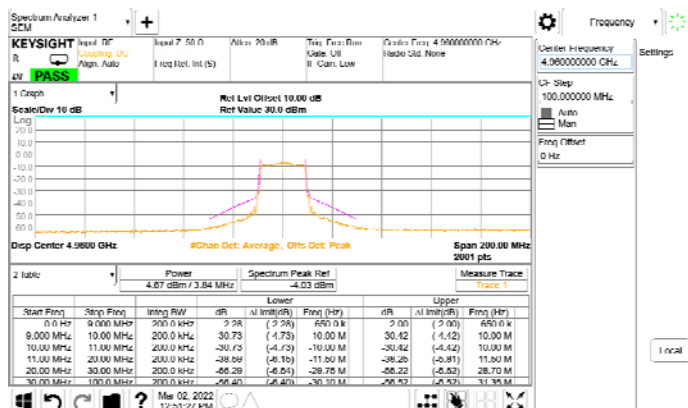
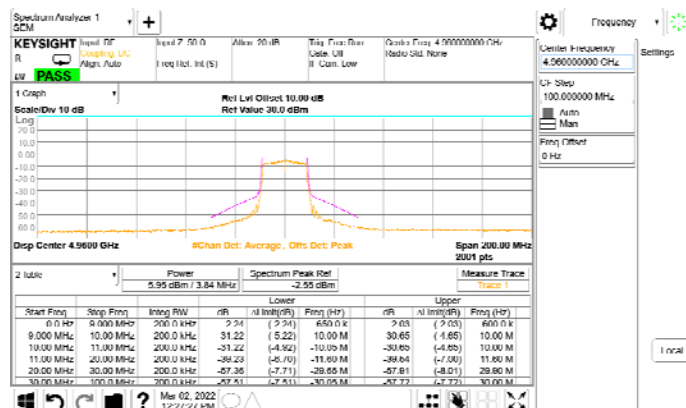


10.4.2 Test Mode: Mode 2

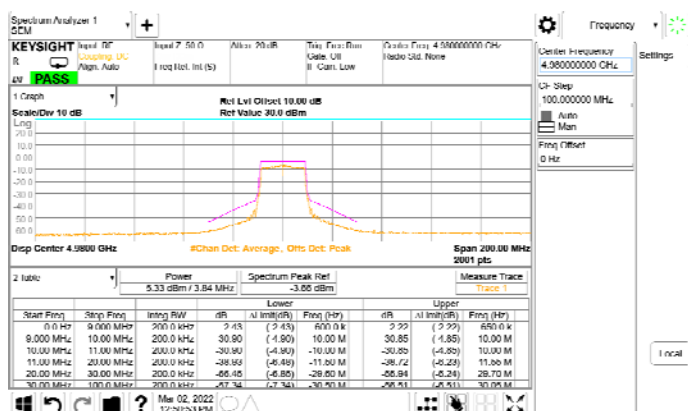
Emission Mask_Chain0_4960MHz



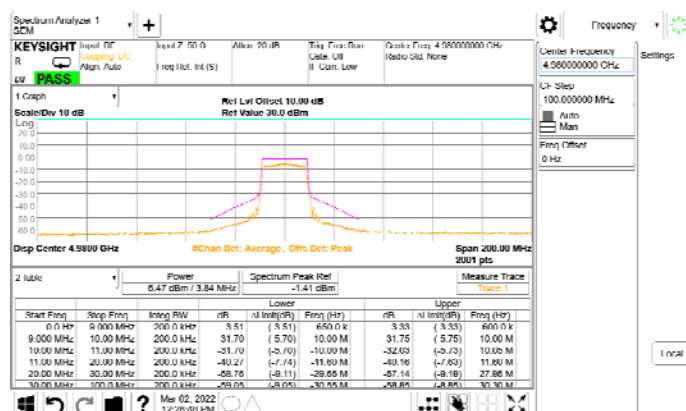
Emission Mask_Chain1_4960MHz



Emission Mask_Chain0_4980MHz



Emission Mask_Chain1_4980MHz



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11 TRANSMITTER CONDUCTED UNWANTED EMISSIONS

11.1 Standard Applicable

Refer as FCC Part 90 §90.210(L)(M).

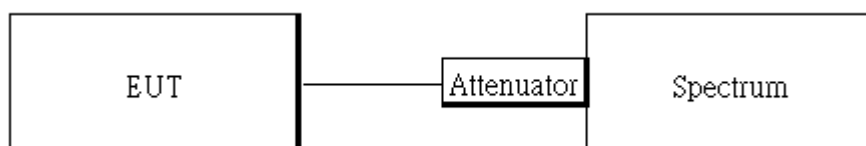
(l) Emission Mask L. For low power transmitters (20 dBm or less) operating

(6) On any frequency removed from the assigned frequency above 150% of the authorized bandwidth: 40 dB.

(m) Emission Mask M. For high power transmitters (greater than 20 dBm)

(6) On any frequency removed from the assigned frequency between above 150% of the authorized bandwidth: 50 dB or $55 + 10 \log (P)$ dB, whichever is the lesser attenuation.

11.2 Test SET-UP



11.3 Measurement Procedure

Refer as ANSI/TIA-603-D-2010, clause 3.2.13 for conducted measurement

For conducted measurements on devices with multiple transmit chains using options given below:

(i) Option 1: measure and sum the spectra across the transmitter outputs.

sweep 30 MHz and up to 10th harmonic of the fundamental or 40GHz whichever is the lesser. Measurements were made at the low, mid and high channels. The Conducted Spurious Emissions Limit is obtained by the following plots. Note: only noise floor was measurable above 26GHz.

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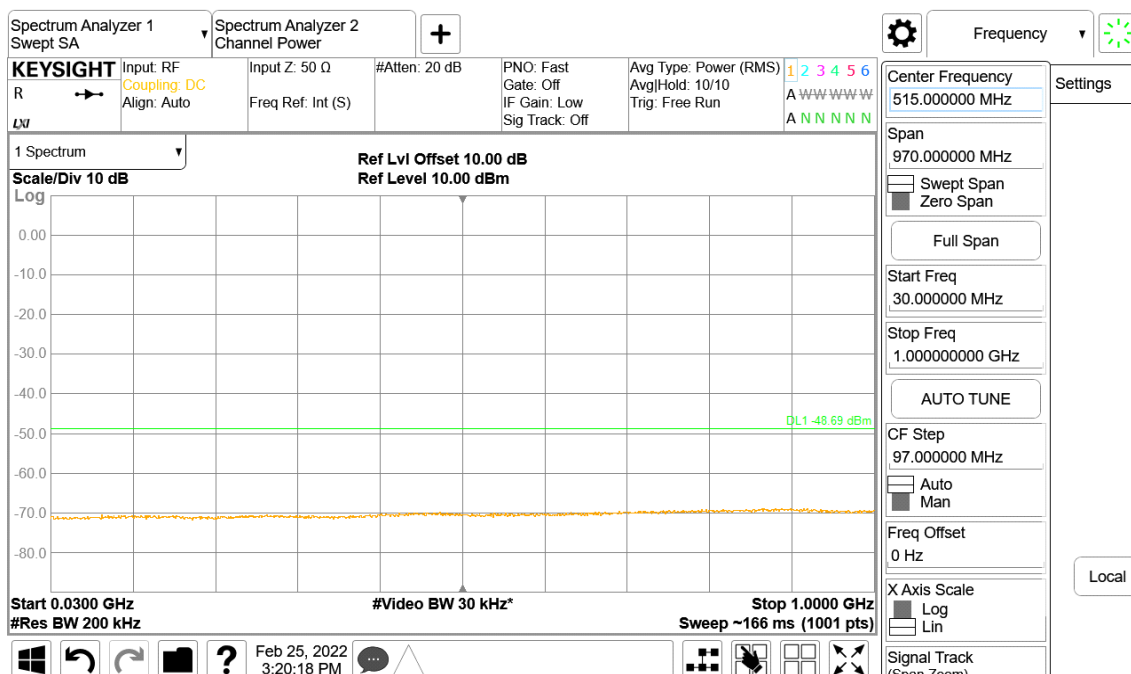
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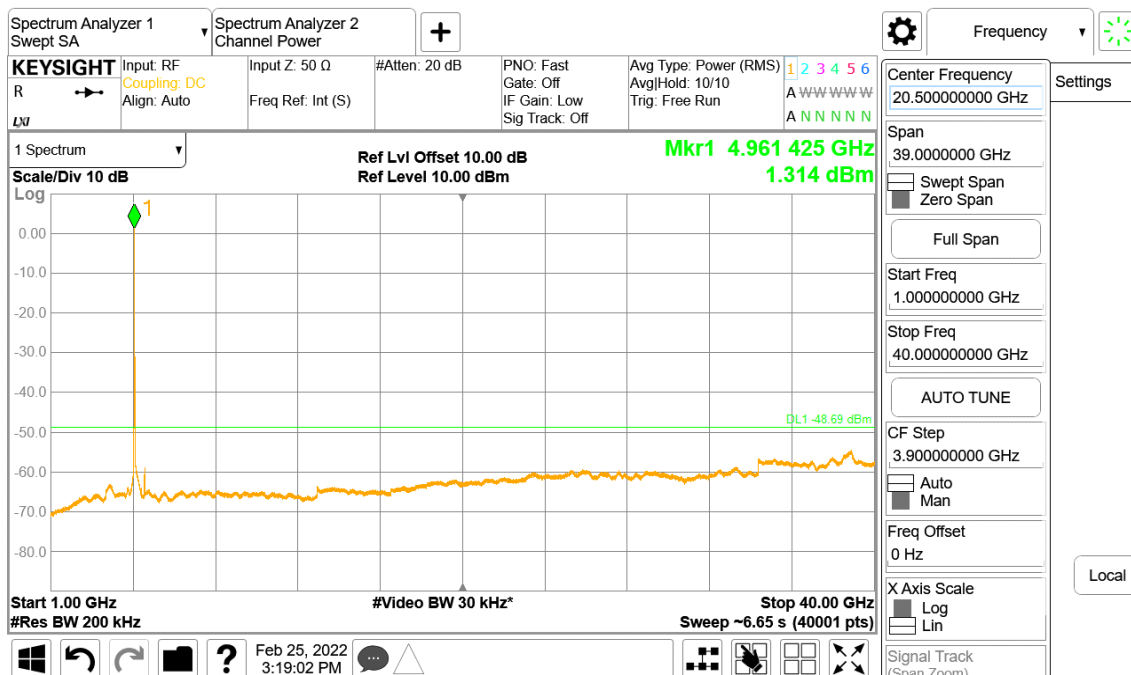
11.4 Measurement Result

11.4.1 Test Mode: Mode 1

Spurious Emissions_Chain0_4960MHz_LF



Spurious Emissions_Chain0_4960MHz_HF

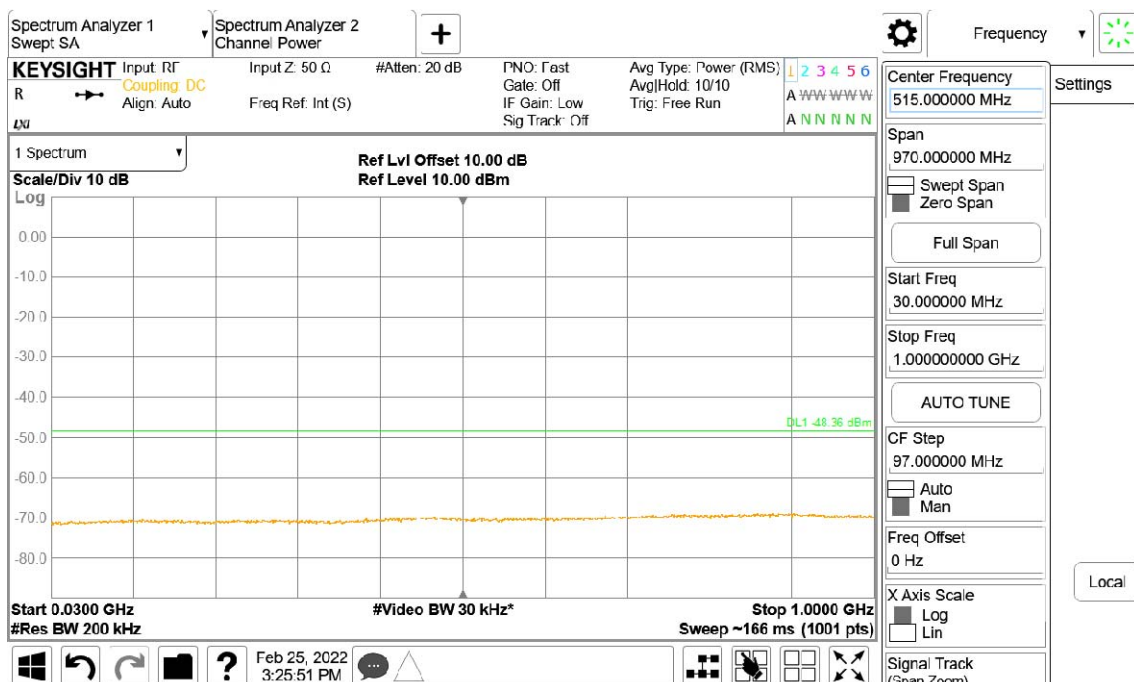


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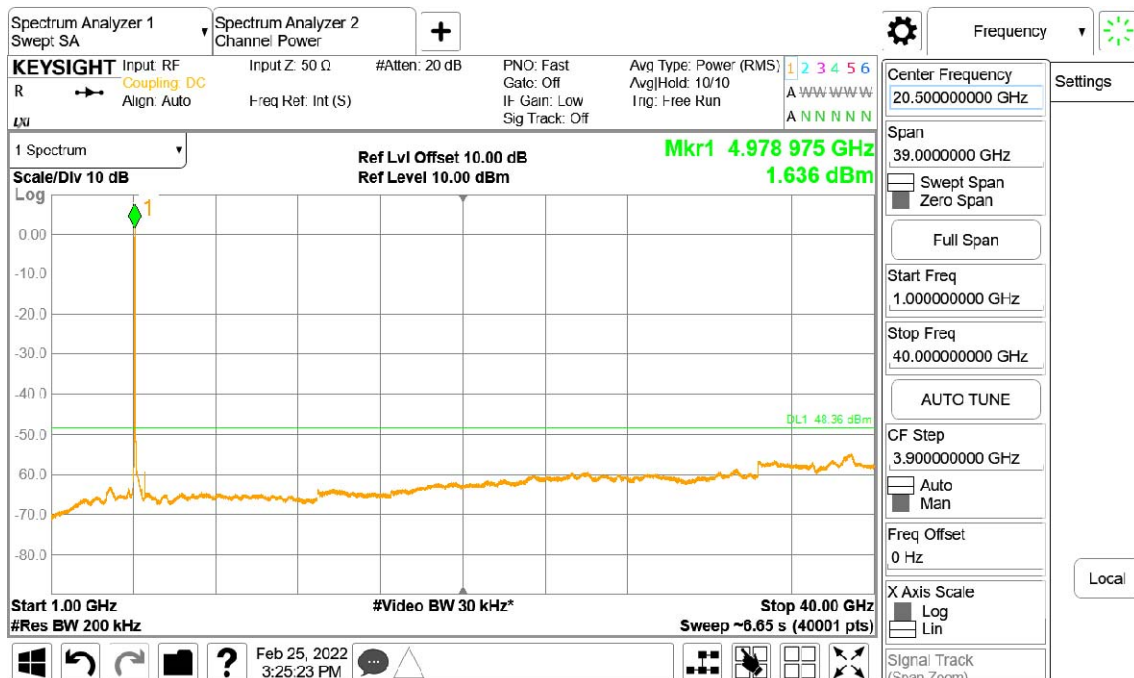
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Spurious Emissions_Chain0_4980MHz_LF



Spurious Emissions_Chain0_4980MHz_HF

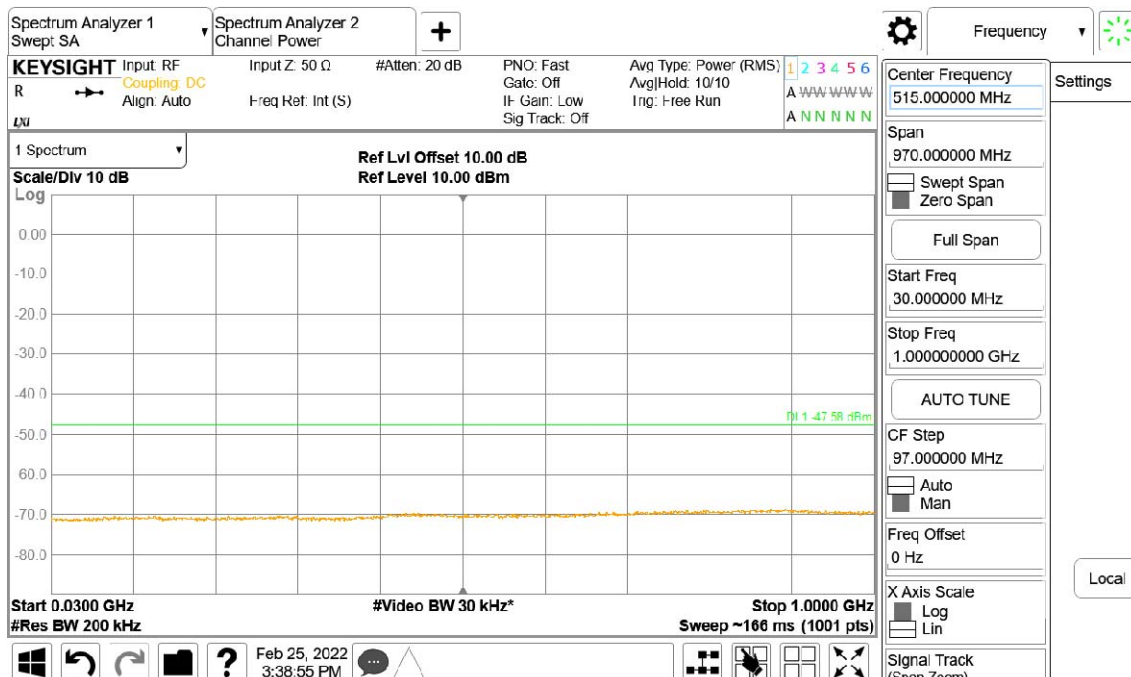


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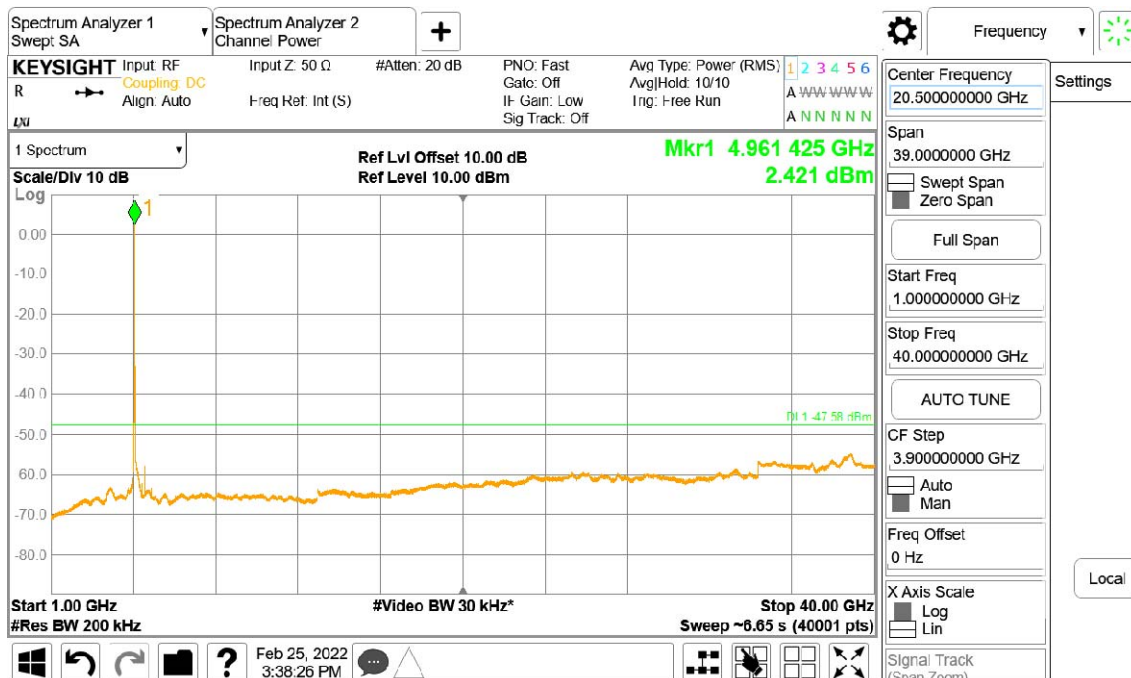
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Spurious Emissions_Chain1_4960MHz_LF



Spurious Emissions_Chain1_4960MHz_HF

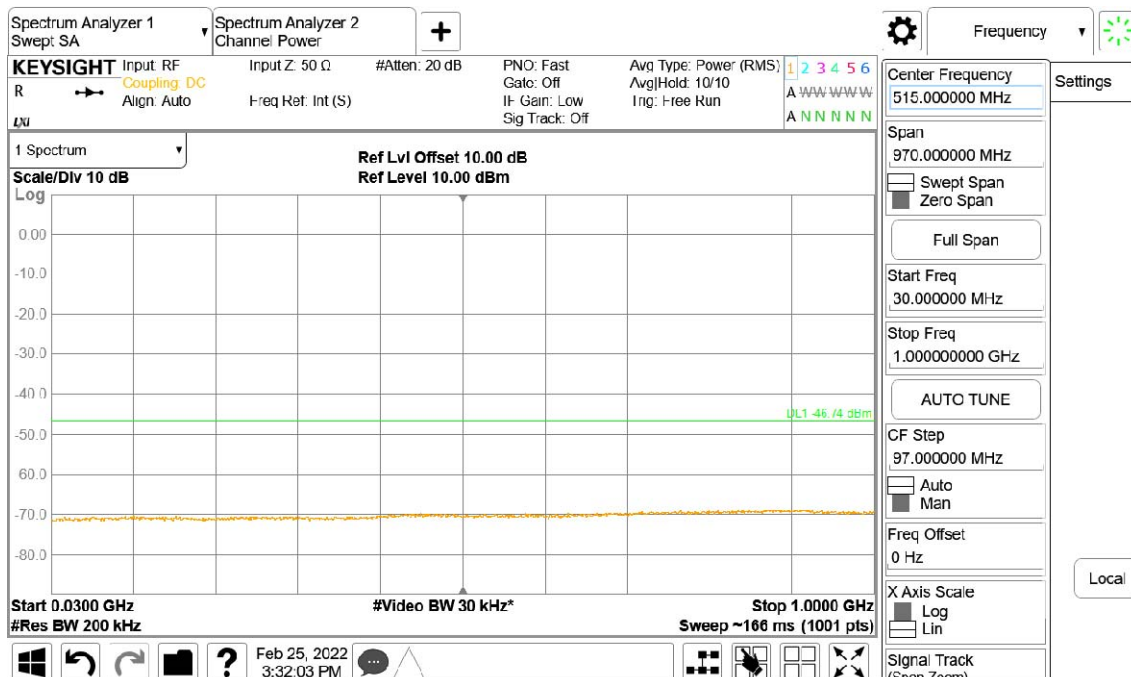


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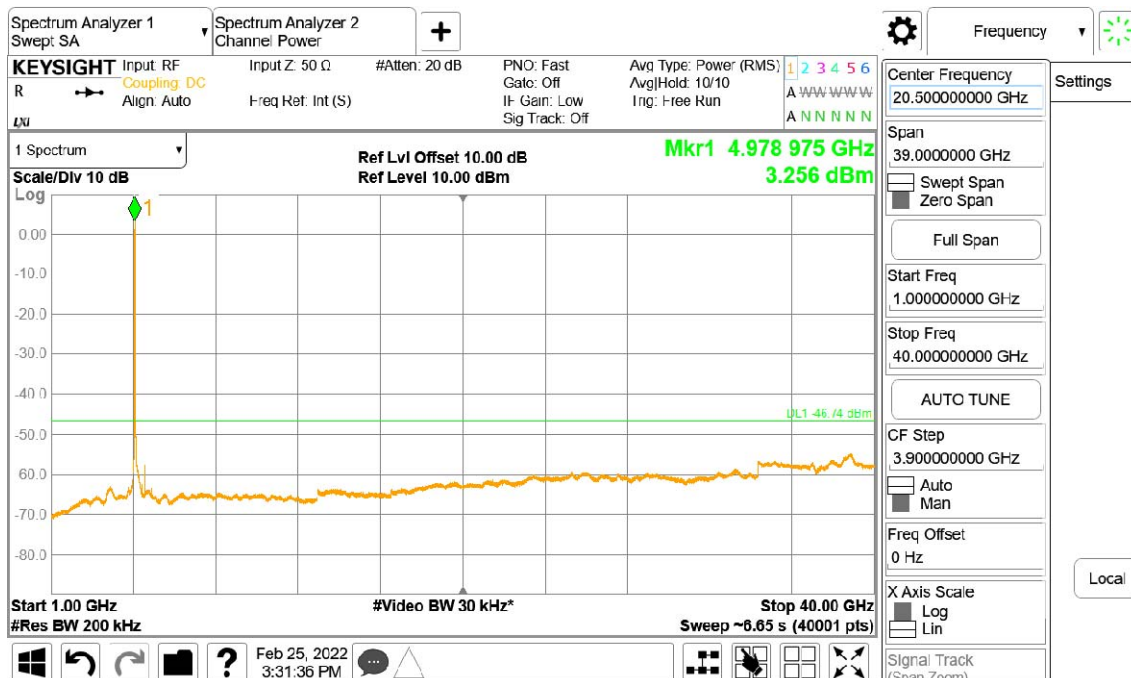
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Spurious Emissions_Chain1_4980MHz_LF



Spurious Emissions_Chain1_4980MHz_HF



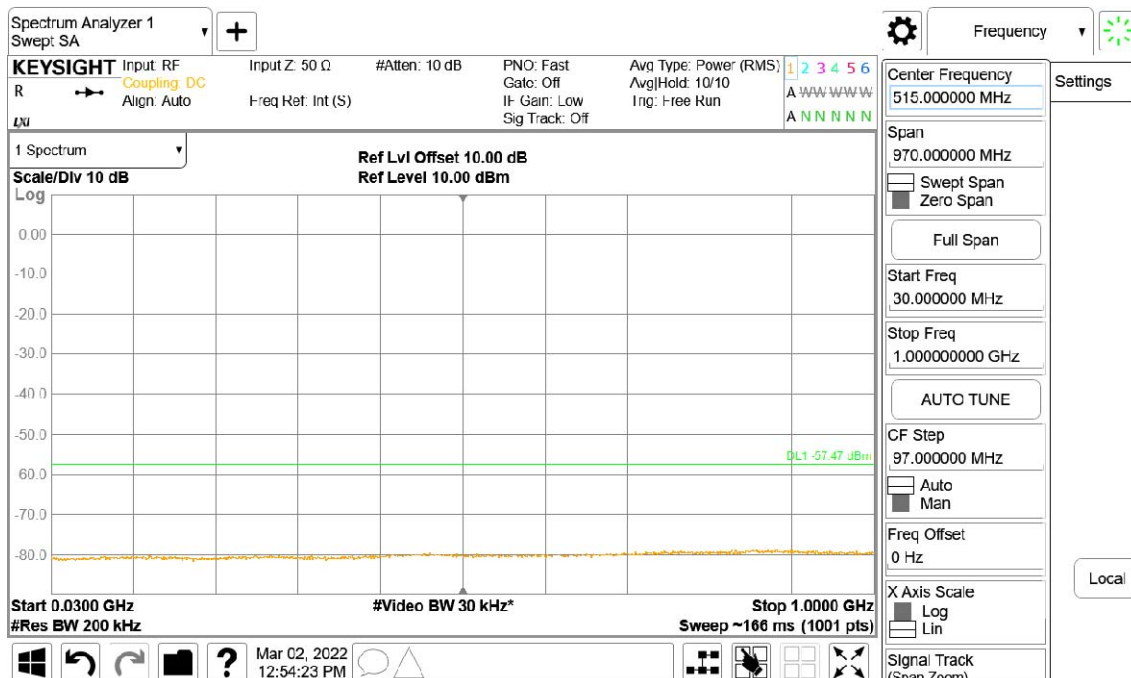
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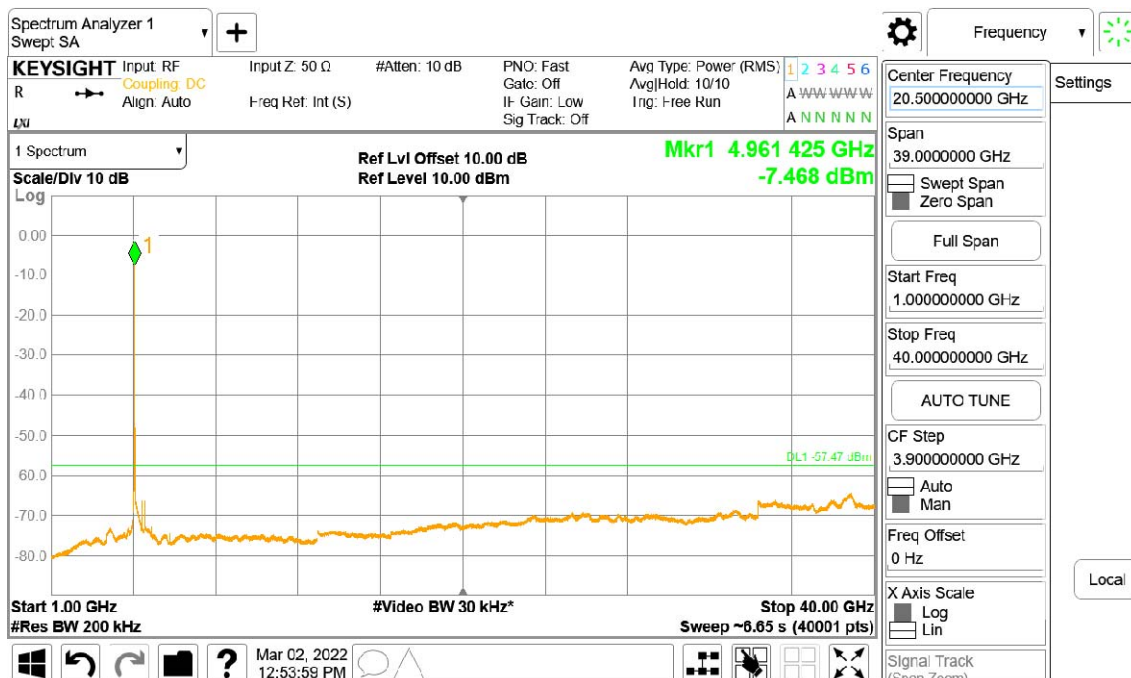
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11.4.2 Test Mode: Mode 2

Spurious Emissions_Chain0_4960MHz_LF



Spurious Emissions_Chain0_4960MHz_HF

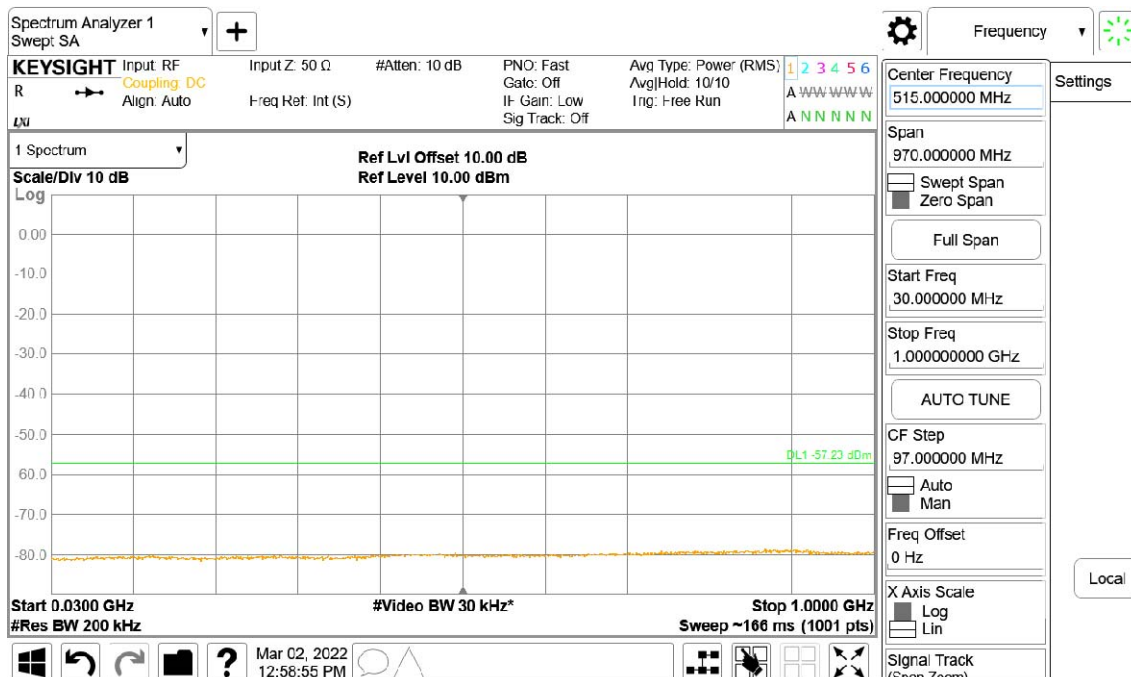


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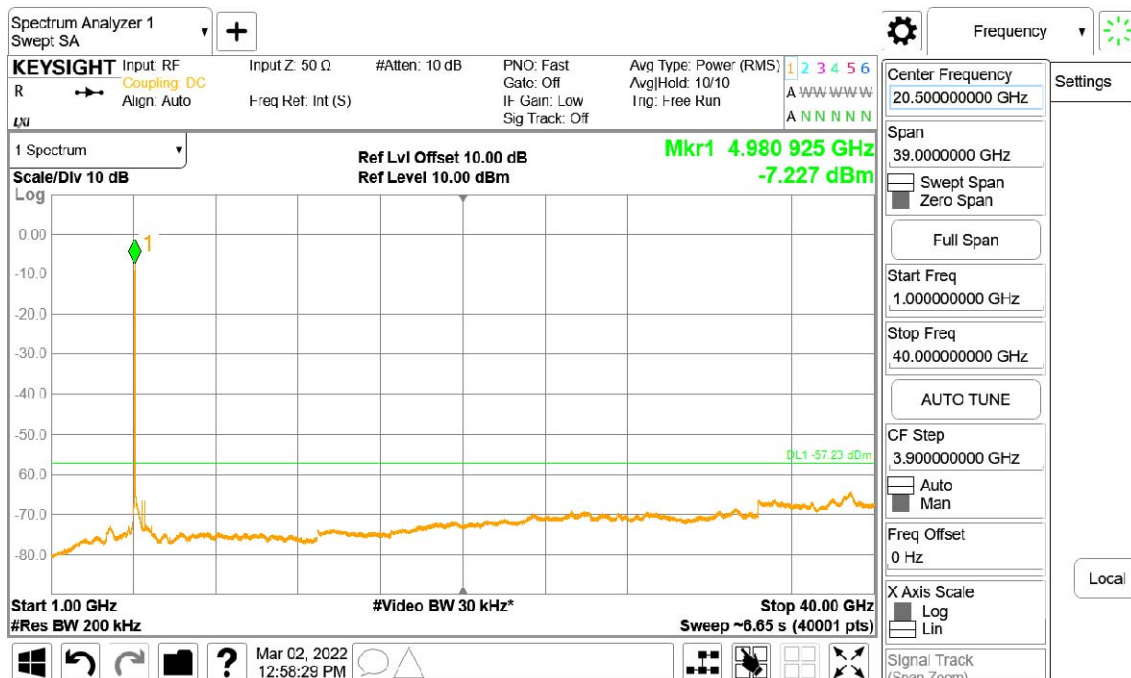
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Spurious Emissions_Chain0_4980MHz_LF



Spurious Emissions_Chain0_4980MHz_HF

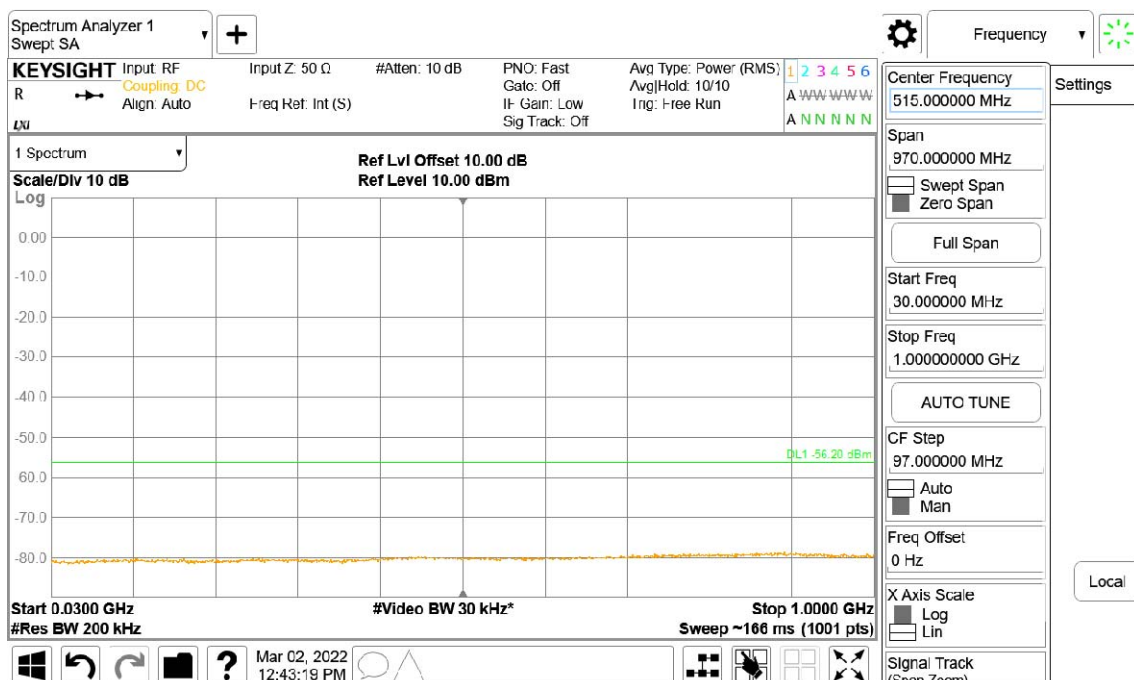


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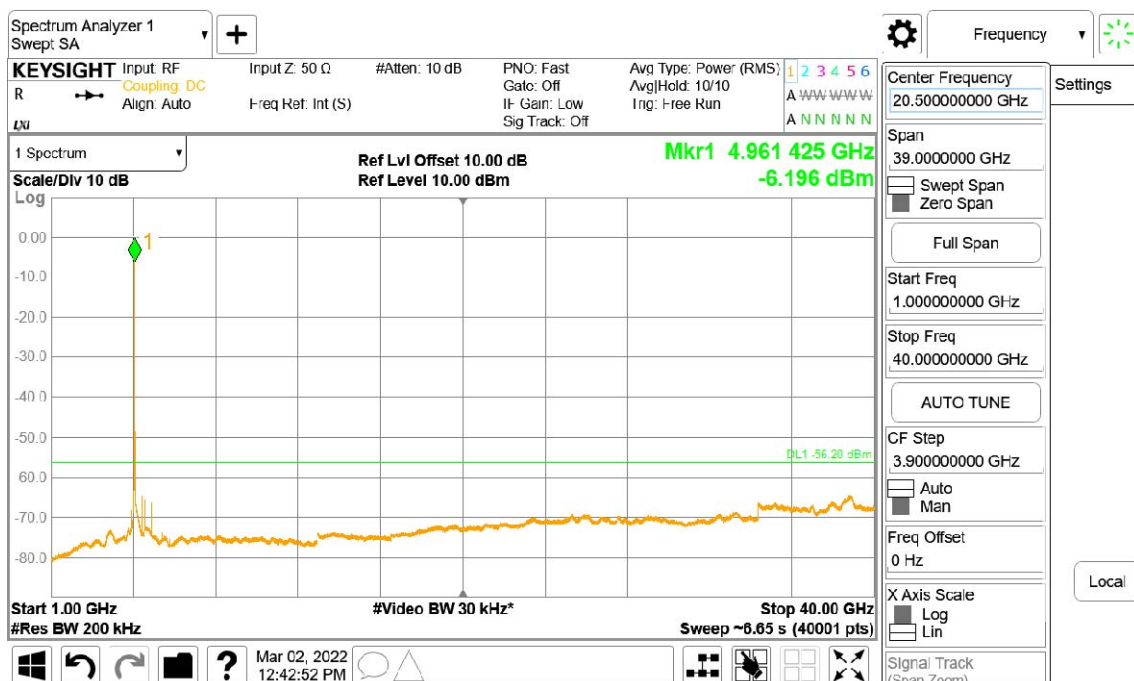
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Spurious Emissions_Chain1_4960MHz_LF



Spurious Emissions_Chain1_4960MHz_HF

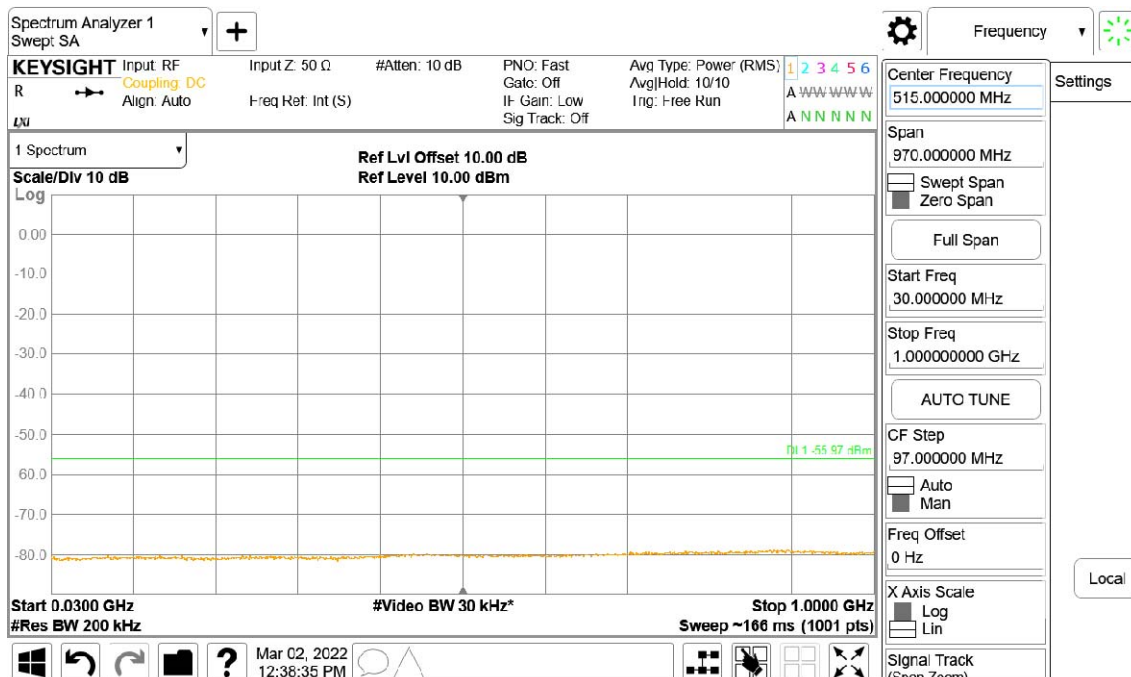


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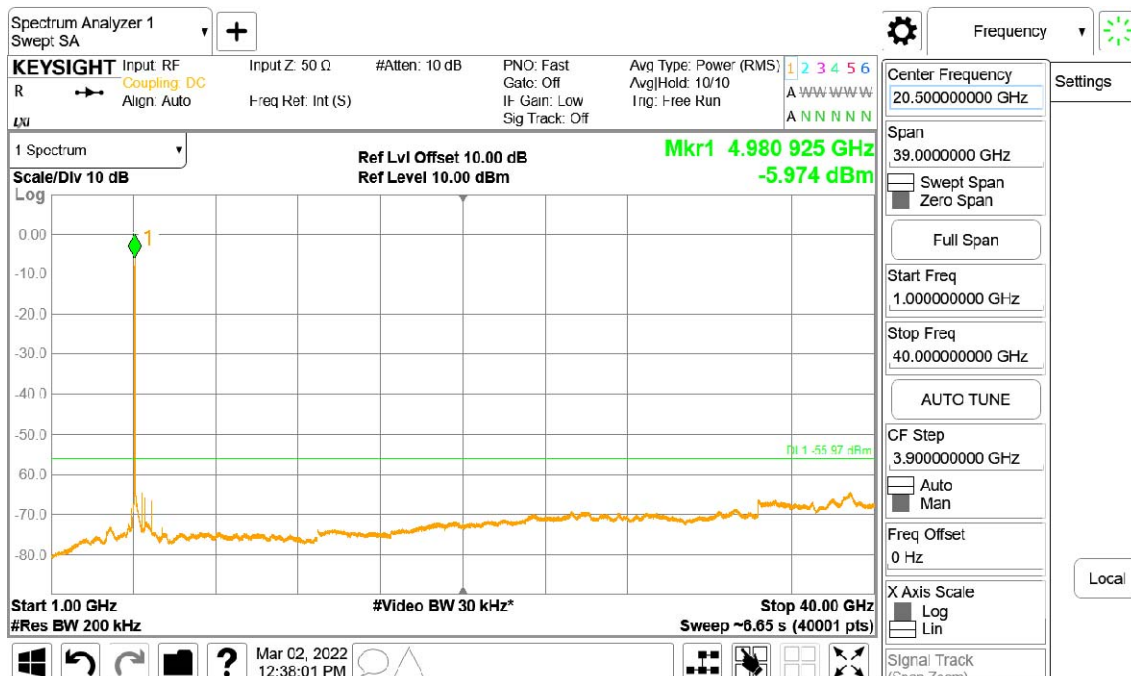
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Spurious Emissions_Chain1_4980MHz_LF



Spurious Emissions_Chain1_4980MHz_HF



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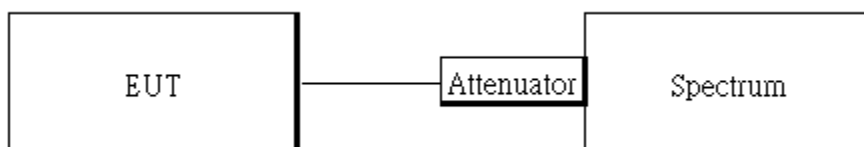
12 PEAK EXCURSION

12.1 Standard Applicable

According to FCC Part 90 §90.1215 (e)

The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the maximum conducted output power shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

12.2 Test Set-up



12.3 Measurement Procedure

Use one of the procedures presented in KDB971168 D01 4.1 to measure the total peak power and record as PPK. Use one of the applicable procedures presented KDB971168 D01 4.2 to measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

$$\text{PAPR (dB)} = \text{PPk(dBm)} - \text{PAvg(dBm)}.$$

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12.4 Measurement Results

12.4.1 Test Mode: Mode 1

Ch0						
Channel bandwidth: 20MHz						
CH	Frequency (MHz)	Mark1 (dBm)	Mark2 (dBm)	PAPR (dB)	Limit (dB)	RESULT
192	4960	17.15	8.798	8.352	13	PASS
196	4980	17.4	9.015	8.385	13	PASS

Ch1						
Channel bandwidth: 20MHz						
CH	Frequency (MHz)	Mark1 (dBm)	Mark2 (dBm)	PAPR (dB)	Limit (dB)	RESULT
192	4960	18.3	9.73	8.57	13	PASS
196	4980	18.6	9.88	8.72	13	PASS

12.4.2 Test Mode: Mode 2

Ch0						
Channel bandwidth: 20MHz						
CH	Frequency (MHz)	Mark1 (dBm)	Mark2 (dBm)	PAPR (dB)	Limit (dB)	RESULT
192	4960	8.328	-0.4864	8.8144	13	PASS
196	4980	8.411	-0.1263	8.5373	13	PASS

Ch1						
Channel bandwidth: 20MHz						
CH	Frequency (MHz)	Mark1 (dBm)	Mark2 (dBm)	PAPR (dB)	Limit (dB)	RESULT
192	4960	9.685	1.62	8.065	13	PASS
196	4980	9.676	1.757	7.919	13	PASS

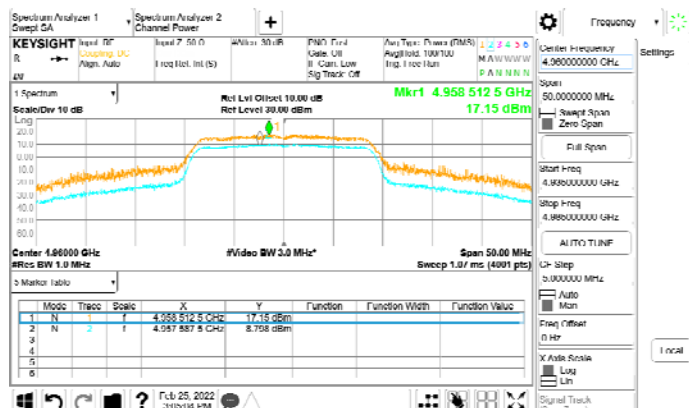
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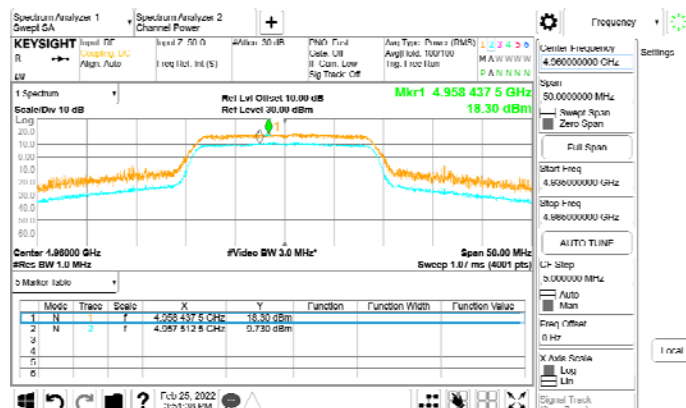
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Test Mode: Mode 1

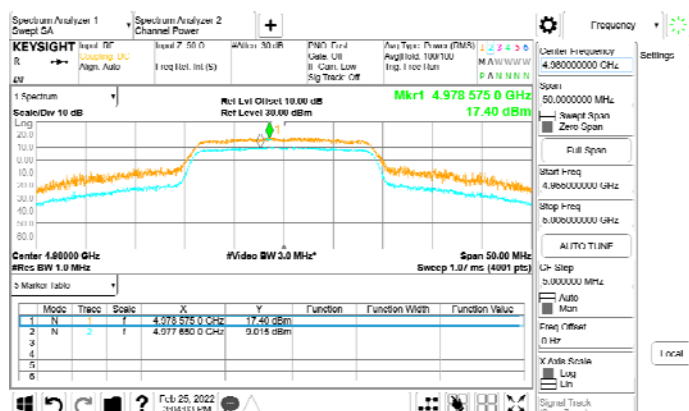
Peak Excursion_Chain0_4960MHz



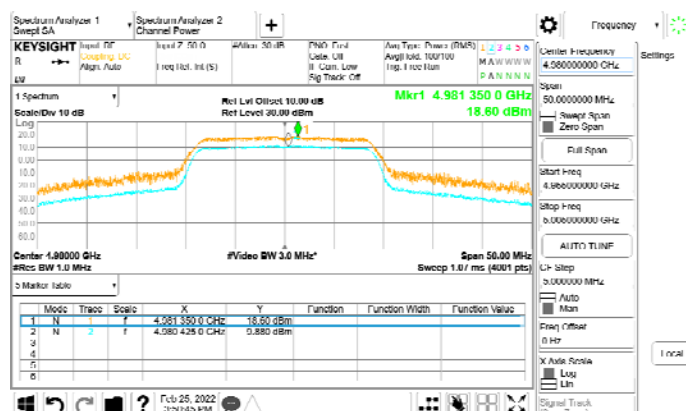
Peak Excursion_Chain1_4960MHz



Peak Excursion_Chain0_4980MHz



Peak Excursion_Chain1_4980MHz



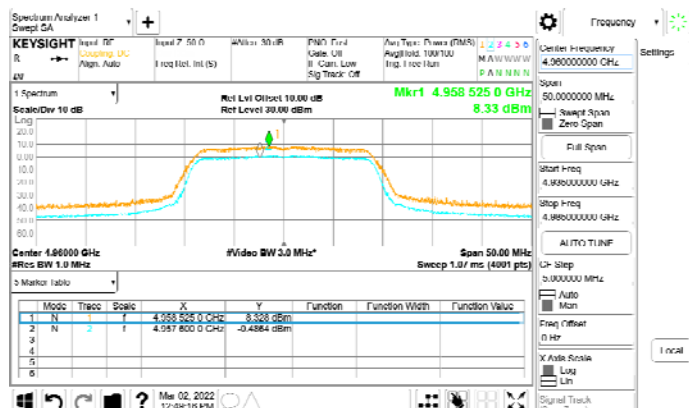
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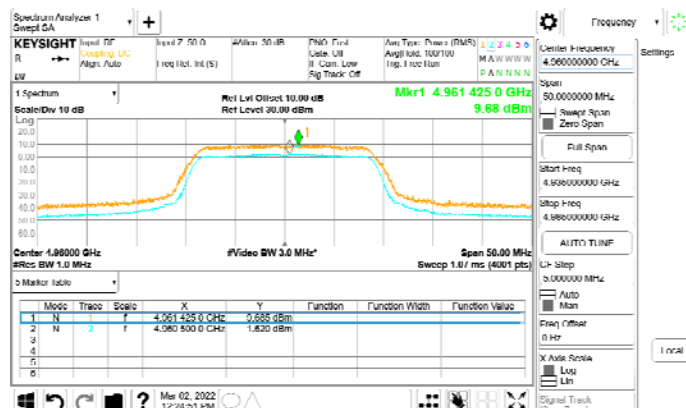
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Test Mode: Mode 2

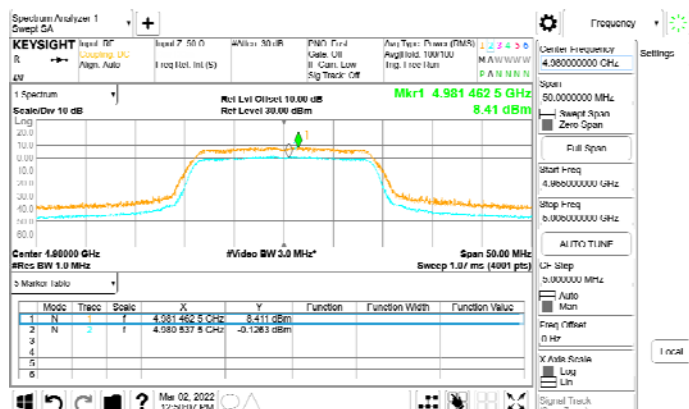
Peak Excursion_Chain0_4960MHz



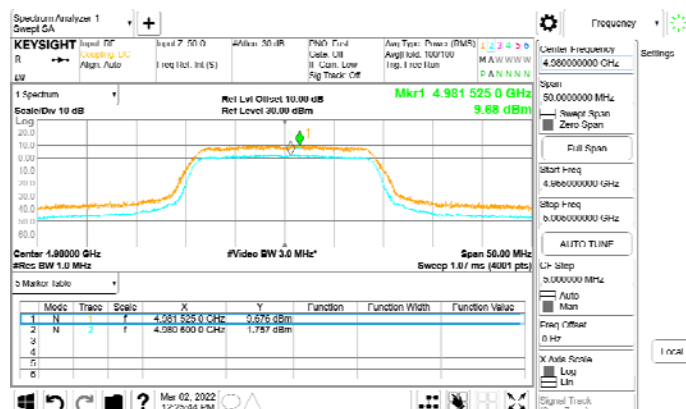
Peak Excursion_Chain1_4960MHz



Peak Excursion_Chain0_4980MHz



Peak Excursion_Chain1_4980MHz



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13 TRANSMITTER RADIATED UNWANTED EMISSIONS

13.1 Standard Applicable

Refer as FCC Part 90 §90.210(L)(M).

(l) Emission Mask L. For low power transmitters (20 dBm or less) operating

(6) On any frequency removed from the assigned frequency above 150% of the authorized bandwidth: 40 dB.

(m) Emission Mask M. For high power transmitters (greater than 20 dBm)

(6) On any frequency removed from the assigned frequency between above 150% of the authorized bandwidth: 50 dB or $55 + 10 \log (P)$ dB, whichever is the lesser attenuation.

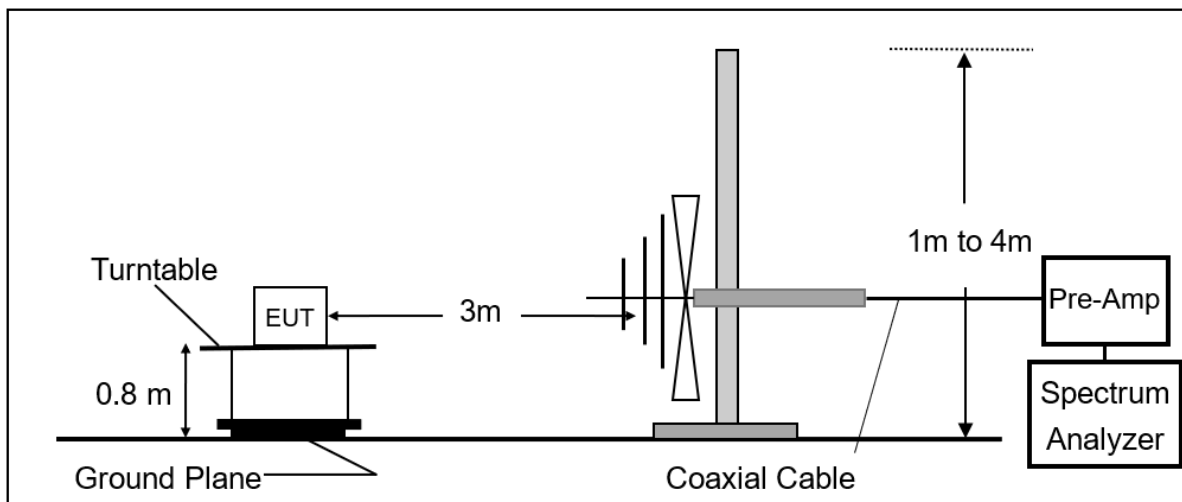
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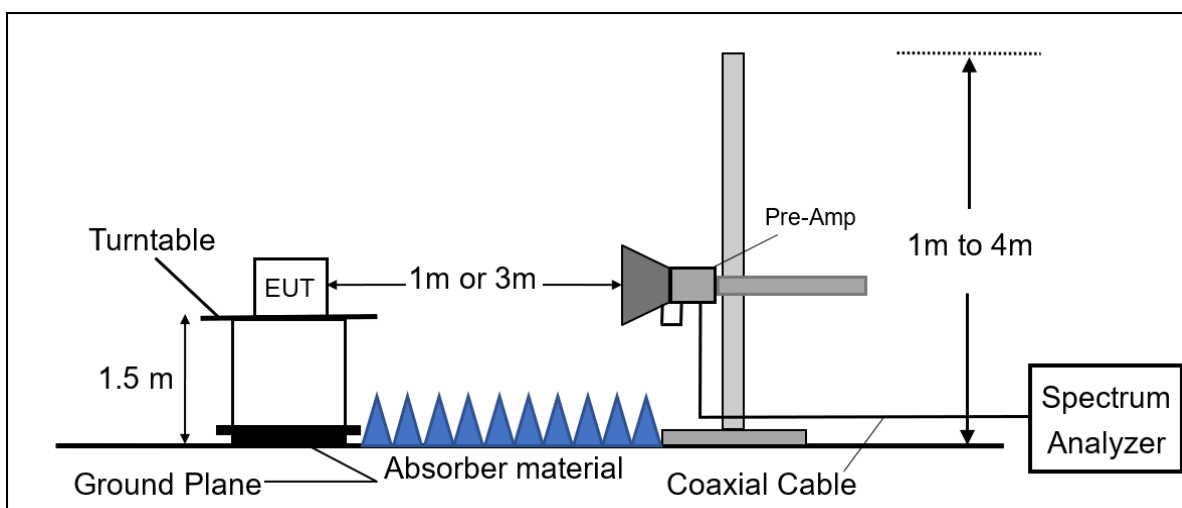
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13.2 Test SET-UP

(A) Radiated Emission Test Set-Up, Frequency from 30MHz to 1000MHz.



(B) Radiated Emission Test Set-Up, Frequency Above 1 GHz



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13.3 Measurement Procedure

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$\text{ERP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

$$\text{EIRP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

13.4 Measurement Result

Note:

1. Refer to next page spectrum analyzer data chart and tabular data sheets.
2. Measurements are completed at peak and average level, the mark of average is the highest emission in restricted bands

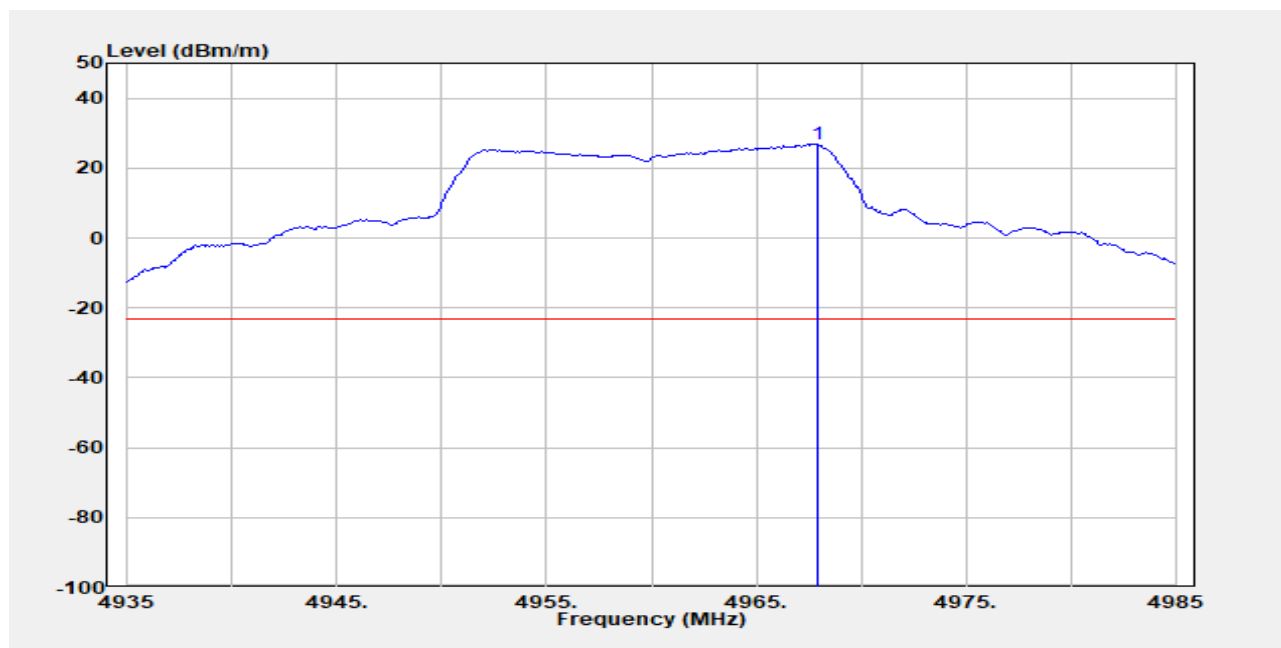
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13.4.1 Radiated Measurement Result (Test Mode: Mode 1)

Report Number	:ER/2021/A0120	Test Site	:SAC 3
Operation Mode	:4.9G 20M	Test Date	:2022-03-02
Test Mode	:Tx CH Low	Temp./Humi.	:23.2/50
EUT Pol	:E2 Plane	Antenna Pol.	:Vertical
Test Frequency	:4960 MHz	Engineer	:Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
4967.917	26.99	14.05	12.73	-7.72		

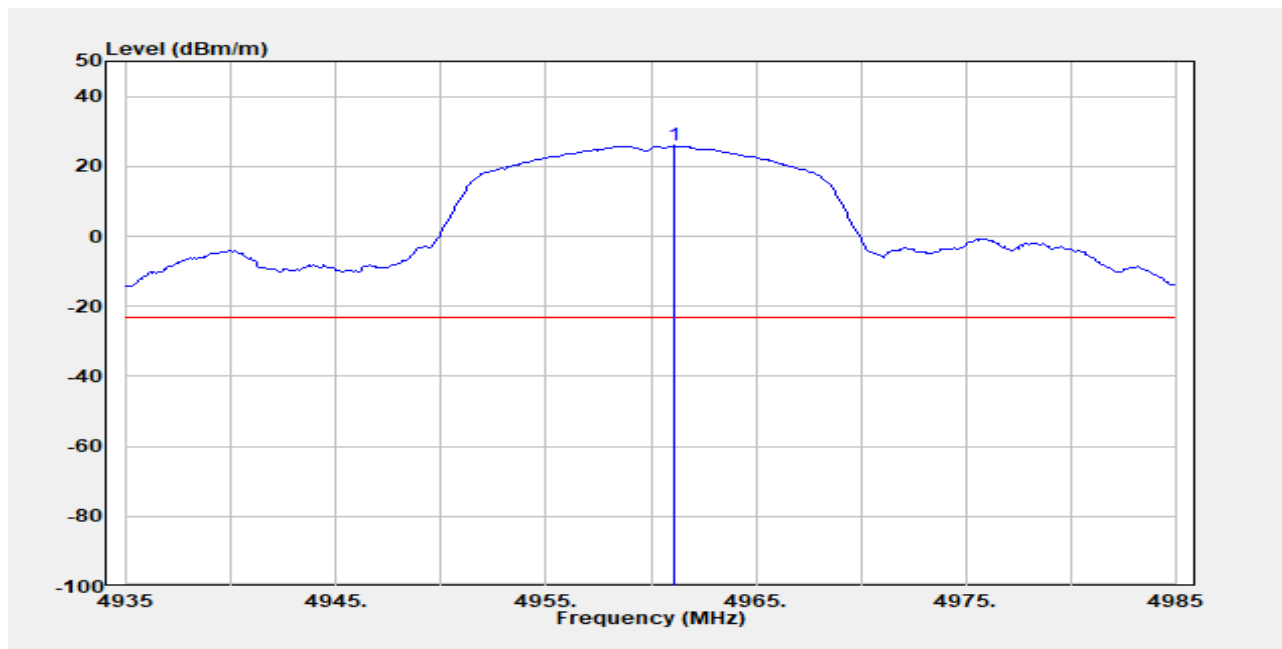
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Report Number :ER/2021/A0120
 Operation Mode :4.9G 20M
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :4960 MHz

Test Site :SAC 3
 Test Date :2022-03-02
 Temp./Humi. :23.2/50
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
4961.083	25.82	14.21	12.76	-7.73		

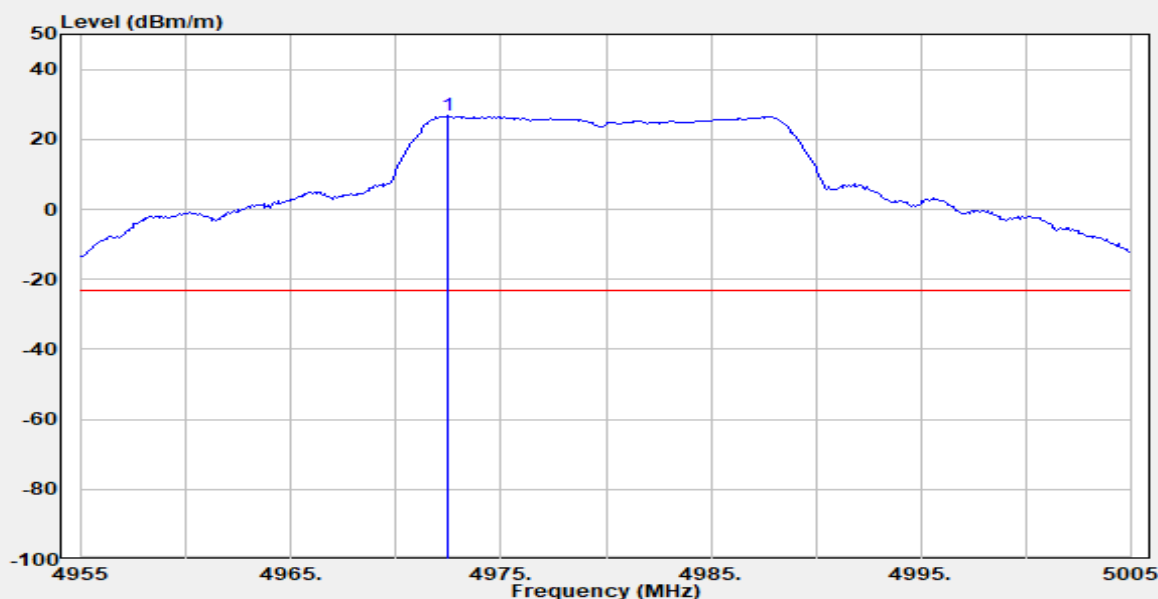
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Report Number :ER/2021/A0120
 Operation Mode :4.9G 20M
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :4980 MHz

Test Site :SAC 3
 Test Date :2022-03-02
 Temp./Humi. :23.2/50
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
4972.417	26.65	14.33	12.71	-7.72		

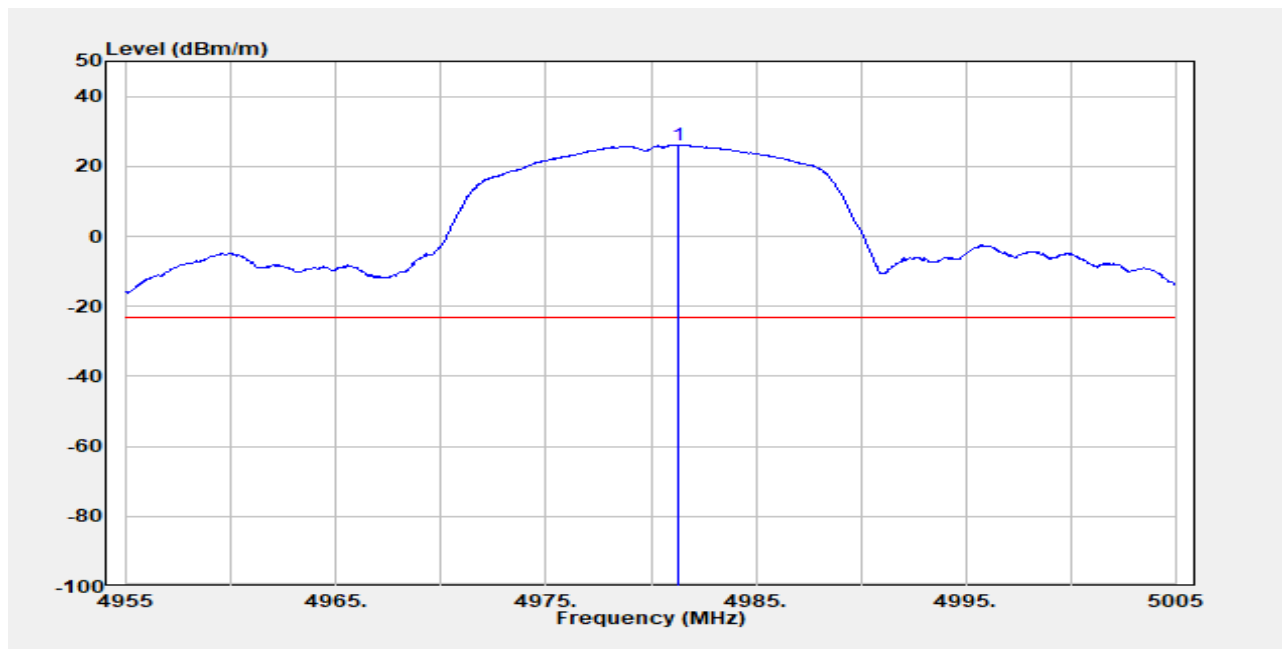
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Report Number :ER/2021/A0120
 Operation Mode :4.9G 20M
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :4980 MHz

Test Site :SAC 3
 Test Date :2022-03-02
 Temp./Humi. :23.2/50
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
4981.300	26.19	14.41	12.67	-7.70		

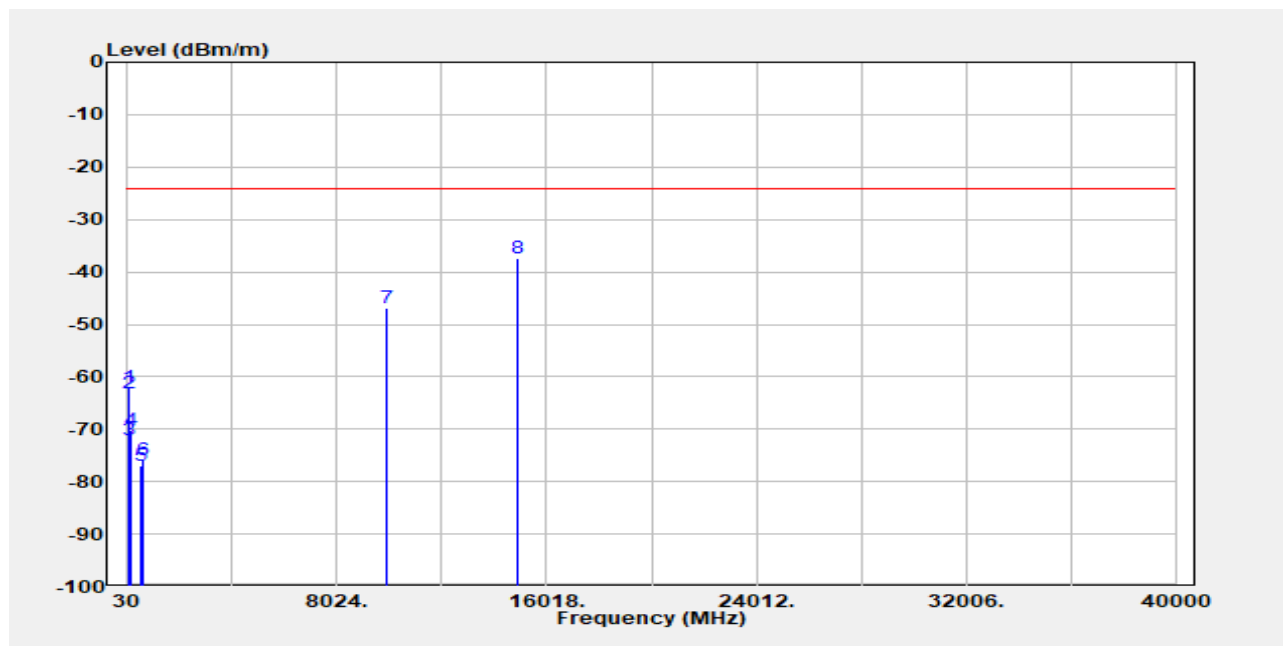
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Report Number :ER/2021/A0120
 Operation Mode :4.9G 20M
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :4960 MHz

Test Site :SAC 3
 Test Date :2022-03-03
 Temp./Humi. :23.2/50
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
52.310	-62.07	-50.14	-11.22	-0.71	-24.18	-37.89
72.680	-63.22	-55.66	-6.70	-0.87	-24.18	-39.04
97.900	-72.14	-62.94	-8.19	-1.01	-24.18	-47.96
156.100	-70.11	-64.64	-4.24	-1.23	-24.18	-45.93
571.260	-77.05	-73.57	-0.79	-2.70	-24.18	-52.87
621.700	-75.88	-72.82	-0.62	-2.44	-24.18	-51.70
9920.000	-46.76	-48.10	11.34	-10.00	-24.18	-22.58
14880.000	-37.49	-37.41	12.34	-12.42	-24.18	-13.31

*Note: Limit= Worst EIRP-50 dB=25.82-50=-24.18dBm

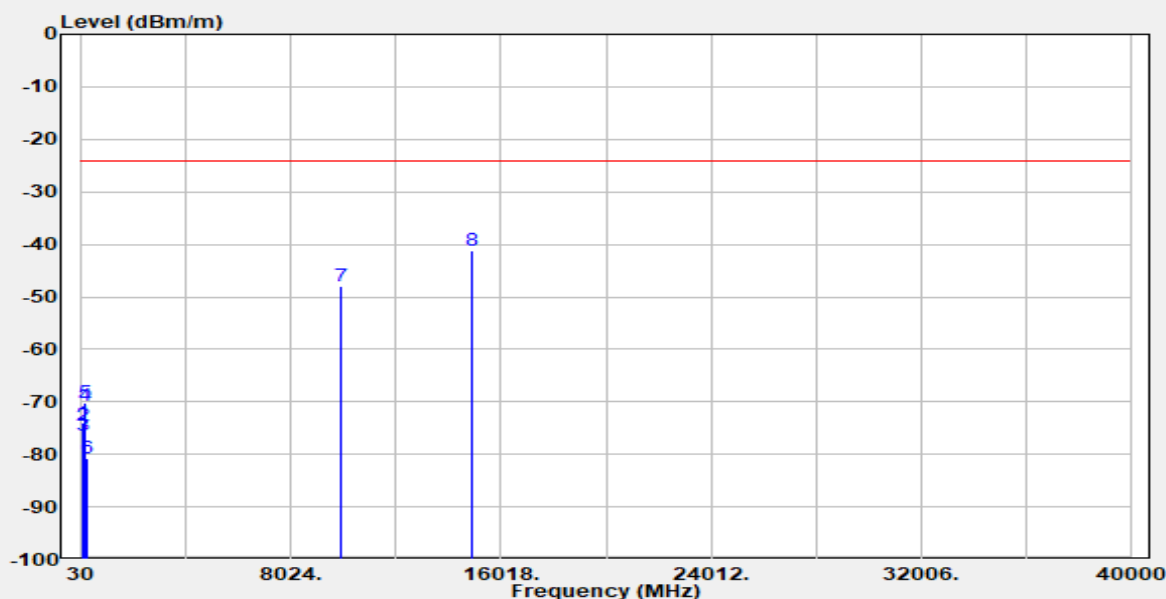
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Report Number :ER/2021/A0120
Operation Mode :4.9G 20M
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Frequency :4960 MHz

Test Site :SAC 3
Test Date :2022-03-03
Temp./Humi. :23.2/50
Antenna Pol. :Horizontal
Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
53.280	-74.09	-62.50	-10.88	-0.72	-24.18	-49.91
72.680	-74.61	-67.05	-6.70	-0.87	-24.18	-50.43
101.780	-76.34	-66.98	-8.33	-1.03	-24.18	-52.16
155.130	-70.86	-65.33	-4.31	-1.22	-24.18	-46.68
178.410	-70.29	-67.11	-1.80	-1.38	-24.18	-46.11
223.030	-80.68	-78.11	-1.04	-1.53	-24.18	-56.50
9920.000	-47.95	-48.24	11.34	-11.04	-24.18	-23.77
14880.000	-41.18	-39.89	12.34	-13.63	-24.18	-17.00

*Note: Limit= Worst EIRP-50 dB=25.82-50=-24.18dBm

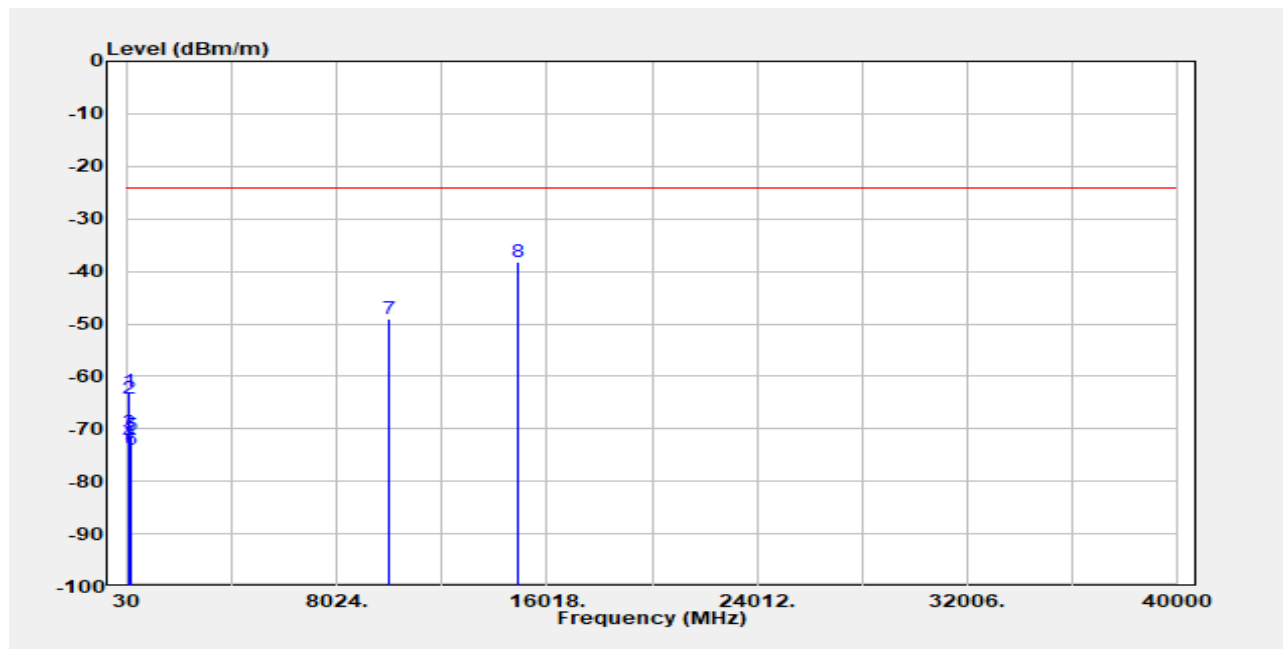
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Report Number :ER/2021/A0120
 Operation Mode :4.9G 20M
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :4980 MHz

Test Site :SAC 3
 Test Date :2022-03-03
 Temp./Humi. :23.2/50
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
52.310	-62.79	-50.85	-11.22	-0.71	-24.18	-38.61
74.620	-64.18	-56.69	-6.61	-0.88	-24.18	-40.00
89.170	-70.67	-62.70	-6.99	-0.97	-24.18	-46.49
105.660	-72.54	-63.24	-8.25	-1.05	-24.18	-48.36
156.100	-71.20	-65.73	-4.24	-1.23	-24.18	-47.02
173.560	-73.91	-70.33	-2.24	-1.34	-24.18	-49.73
9960.000	-48.99	-49.24	11.44	-11.19	-24.18	-24.81
14940.000	-38.32	-37.15	12.56	-13.73	-24.18	-14.14

*Note: Limit= Worst EIRP-50 dB=25.82-50=-24.18dBm

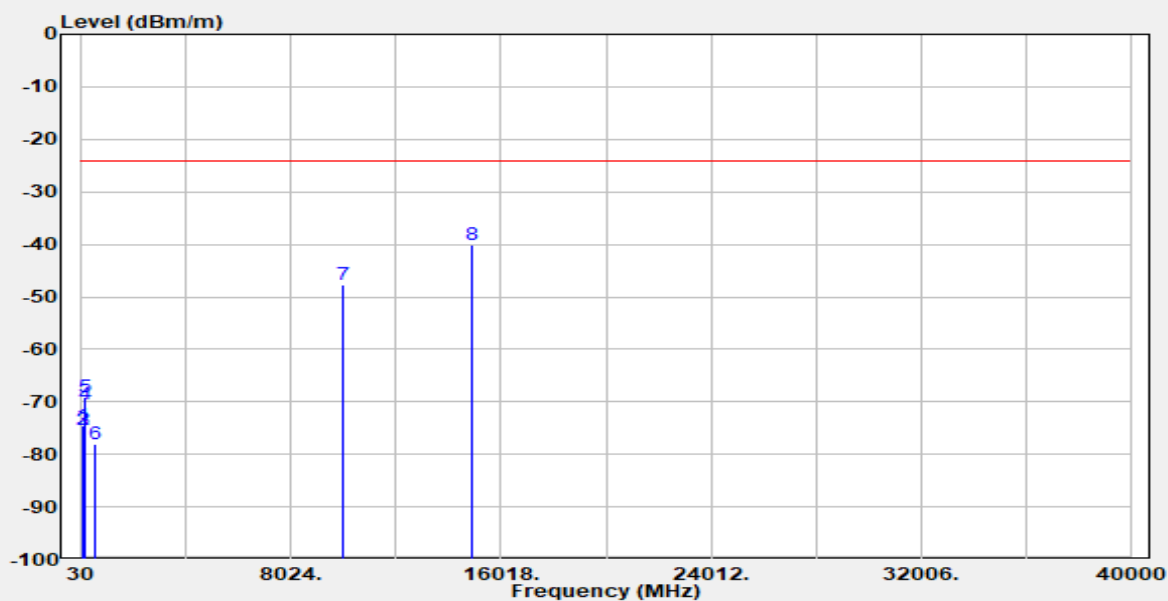
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Report Number :ER/2021/A0120
 Operation Mode :4.9G 20M
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :4980 MHz

Test Site :SAC 3
 Test Date :2022-03-03
 Temp./Humi. :23.2/50
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
54.250	-74.66	-63.55	-10.39	-0.72	-24.18	-50.48
72.680	-75.25	-67.69	-6.70	-0.87	-24.18	-51.07
102.750	-75.40	-66.07	-8.29	-1.04	-24.18	-51.22
156.100	-70.44	-64.97	-4.24	-1.23	-24.18	-46.26
177.440	-69.02	-65.74	-1.90	-1.37	-24.18	-44.84
572.230	-78.02	-74.54	-0.78	-2.71	-24.18	-53.84
9960.000	-47.76	-48.01	11.44	-11.19	-24.18	-23.58
14940.000	-39.98	-38.81	12.56	-13.73	-24.18	-15.80

*Note: Limit= Worst EIRP-50 dB=25.82-50=-24.18dBm

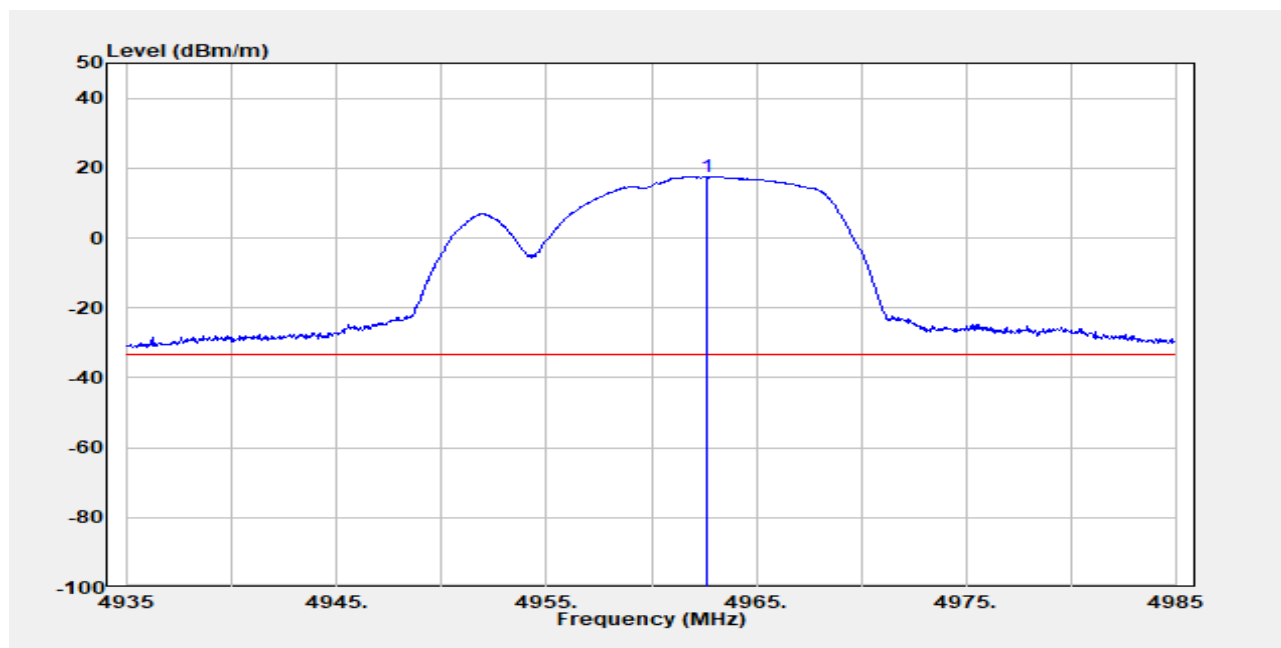
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13.4.2 Radiated Measurement Result (Test Mode: Mode 2)

Report Number	:ER/2021/A0120	Test Site	:SAC 3
Operation Mode	:4.9G 20M	Test Date	:2022-03-02
Test Mode	:Tx CH Low	Temp./Humi.	:23.2/50
EUT Pol	:E2 Plane	Antenna Pol.	:Vertical
Test Frequency	:4960 MHz	Engineer	:Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level	Gain	Loss	dBm	dB
4962.650	17.55	12.53	12.75	-7.73		

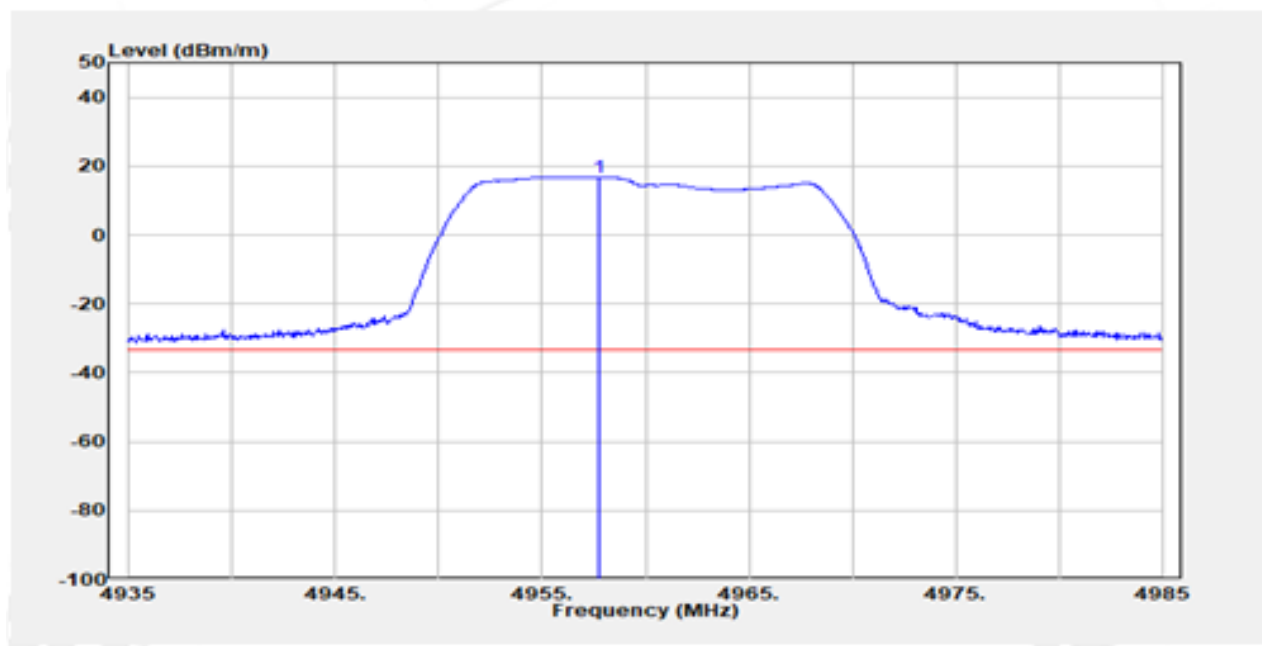
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Report Number :ER/2021/A0120
 Operation Mode :4.9G 20M
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :4960 MHz

Test Site :SAC 3
 Test Date :2022-03-02
 Temp./Humi. :23.2/50
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
4957.750	16.85	11.81	12.77	-7.74		

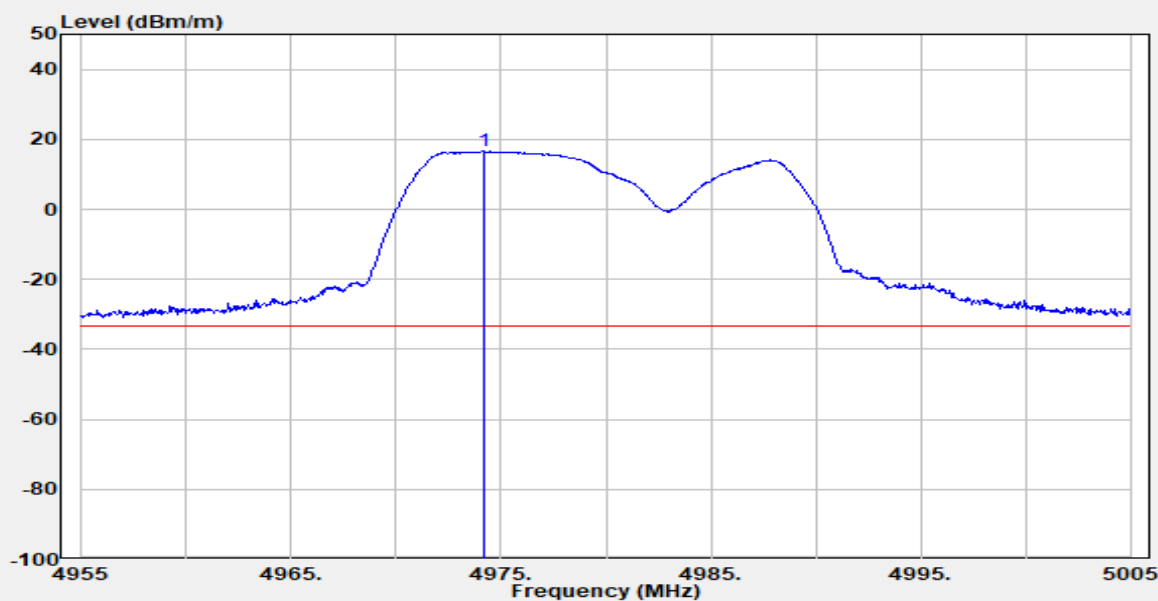
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Report Number :ER/2021/A0120
 Operation Mode :4.9G 20M
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :4980 MHz

Test Site :SAC 3
 Test Date :2022-03-02
 Temp./Humi. :23.2/50
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
4974.200	16.52	11.54	12.70	-7.71		

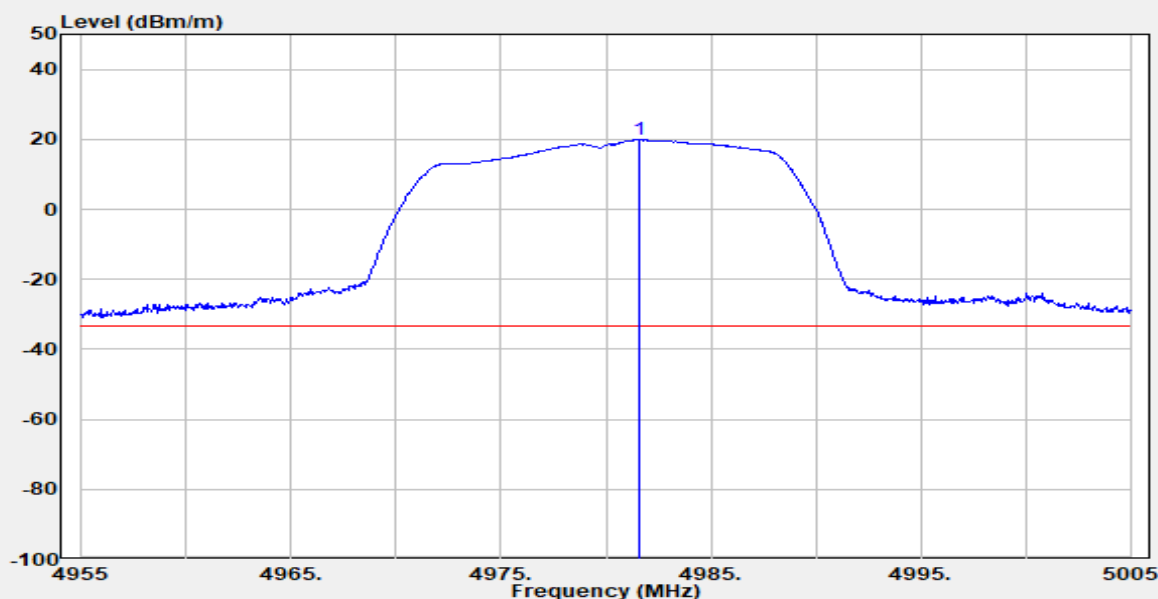
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Report Number :ER/2021/A0120
 Operation Mode :4.9G 20M
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :4980 MHz

Test Site :SAC 3
 Test Date :2022-03-02
 Temp./Humi. :23.2/50
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
4981.550	19.87	14.90	12.67	-7.70		

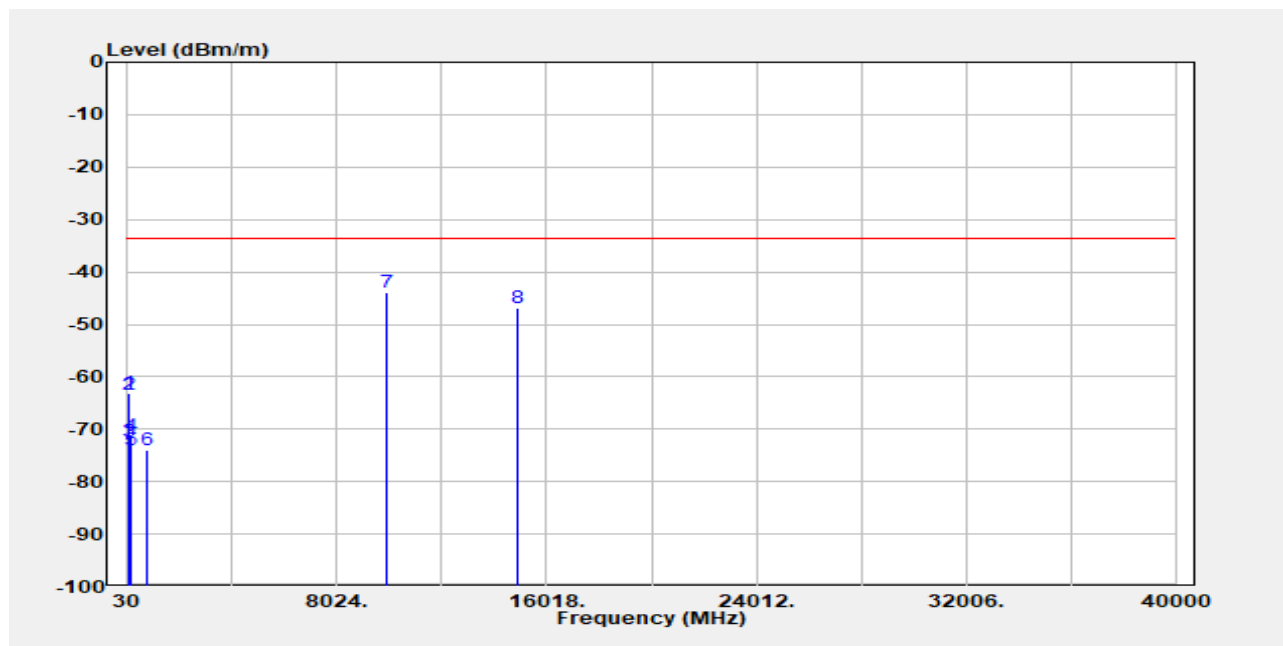
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Report Number :ER/2021/A0120
 Operation Mode :4.9G 20M
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :4960 MHz

Test Site :SAC 3
 Test Date :2022-03-03
 Temp./Humi. :23.2/50
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
53.280	-63.26	-51.67	-10.88	-0.72	-33.48	-29.78
74.620	-63.41	-55.92	-6.61	-0.88	-33.48	-29.93
106.630	-72.36	-63.07	-8.23	-1.05	-33.48	-38.88
155.130	-71.37	-65.84	-4.31	-1.22	-33.48	-37.89
171.620	-74.07	-70.27	-2.47	-1.32	-33.48	-40.59
745.860	-74.01	-71.37	-0.07	-2.57	-33.48	-40.53
9920.000	-43.85	-44.15	11.34	-11.04	-33.48	-10.37
14880.000	-46.97	-45.68	12.34	-13.63	-33.48	-13.49

*Note: Limit= Worst EIRP-50 dB=16.52-50=-33.48dBm

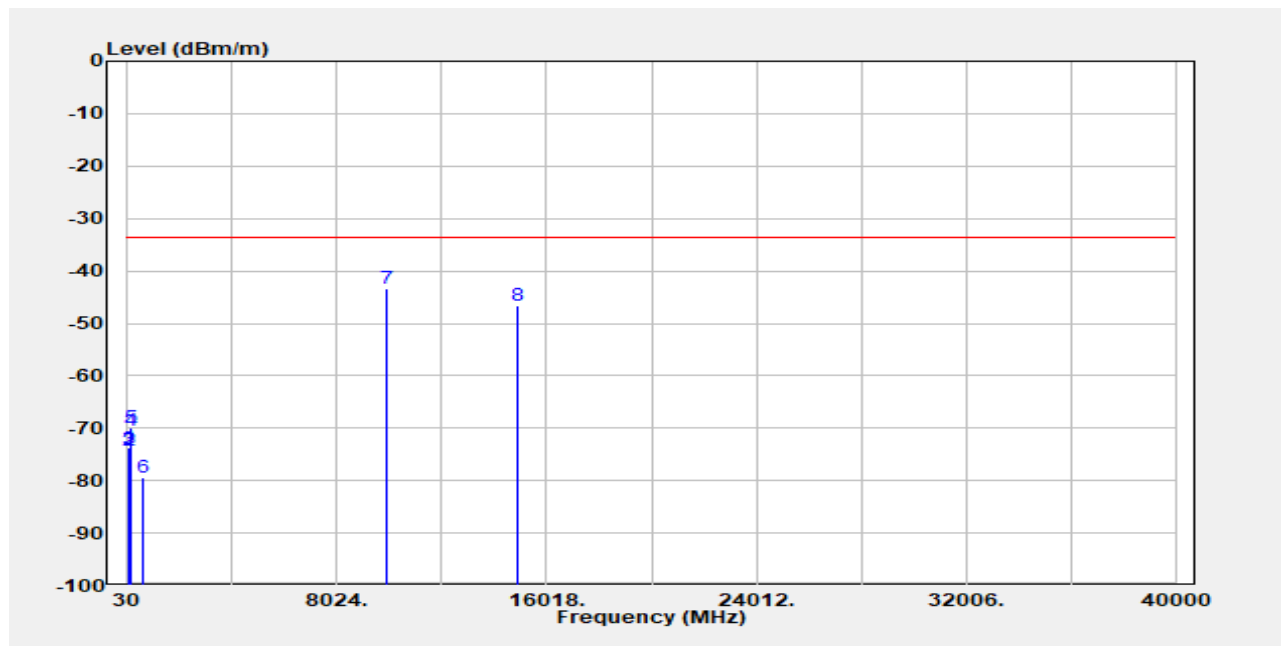
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Report Number :ER/2021/A0120
Operation Mode :4.9G 20M
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Frequency :4960 MHz

Test Site :SAC 3
Test Date :2022-03-03
Temp./Humi. :23.2/50
Antenna Pol. :Horizontal
Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
53.280	-73.72	-62.13	-10.88	-0.72	-33.48	-40.24
72.680	-74.26	-66.70	-6.70	-0.87	-33.48	-40.78
101.780	-73.87	-64.51	-8.33	-1.03	-33.48	-40.39
156.100	-70.44	-64.97	-4.24	-1.23	-33.48	-36.96
177.440	-69.89	-66.62	-1.90	-1.37	-33.48	-36.41
617.820	-79.41	-76.28	-0.67	-2.47	-33.48	-45.93
9920.000	-43.34	-43.64	11.34	-11.04	-33.48	-9.86
14880.000	-46.75	-45.46	12.34	-13.63	-33.48	-13.27

*Note: Limit= Worst EIRP-50 dB=16.52-50=-33.48dBm

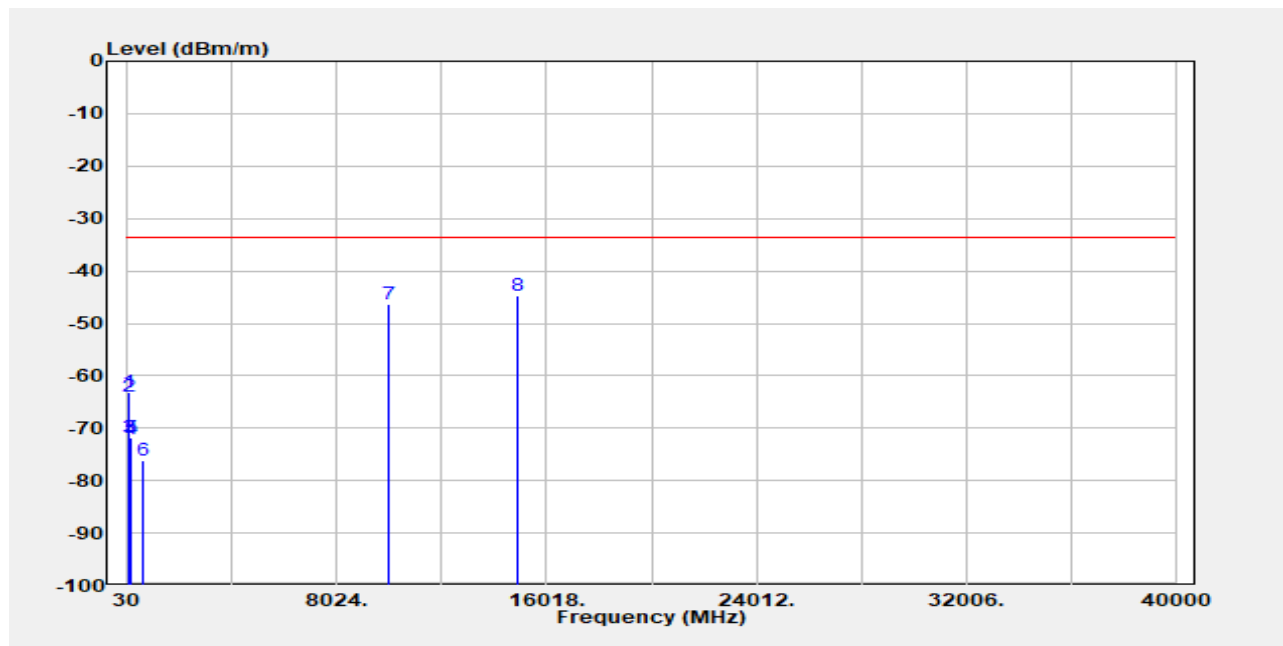
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Report Number :ER/2021/A0120
Operation Mode :4.9G 20M
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Frequency :4980 MHz

Test Site :SAC 3
Test Date :2022-03-03
Temp./Humi. :23.2/50
Antenna Pol. :Vertical
Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
54.250	-63.21	-52.10	-10.39	-0.72	-33.48	-29.73
72.680	-63.93	-56.37	-6.70	-0.87	-33.48	-30.45
90.140	-71.71	-63.49	-7.24	-0.98	-33.48	-38.23
155.130	-71.99	-66.46	-4.31	-1.22	-33.48	-38.51
177.440	-71.85	-68.57	-1.90	-1.37	-33.48	-38.37
622.670	-76.06	-73.03	-0.59	-2.44	-33.48	-42.58
9960.000	-46.27	-46.52	11.44	-11.19	-33.48	-12.79
14940.000	-44.75	-43.58	12.56	-13.73	-33.48	-11.27

*Note: Limit= Worst EIRP-50 dB=16.52-50=-33.48dBm

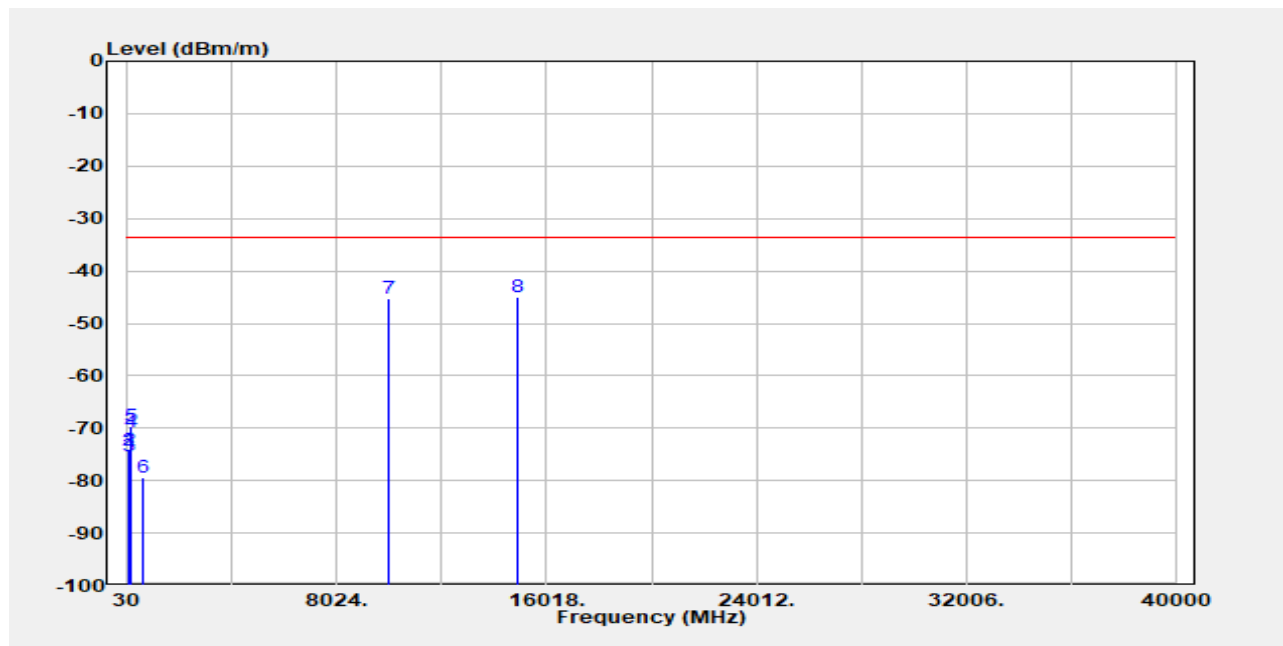
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Report Number :ER/2021/A0120
Operation Mode :4.9G 20M
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Frequency :4980 MHz

Test Site :SAC 3
Test Date :2022-03-03
Temp./Humi. :23.2/50
Antenna Pol. :Horizontal
Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
53.280	-74.22	-62.62	-10.88	-0.72	-33.48	-40.74
73.650	-74.17	-66.59	-6.71	-0.87	-33.48	-40.69
104.690	-75.25	-65.91	-8.30	-1.04	-33.48	-41.77
158.040	-70.72	-65.42	-4.05	-1.25	-33.48	-37.24
178.410	-69.61	-66.43	-1.80	-1.38	-33.48	-36.13
619.760	-79.40	-76.29	-0.68	-2.43	-33.48	-45.92
9960.000	-45.25	-45.50	11.44	-11.19	-33.48	-11.77
14940.000	-45.02	-43.85	12.56	-13.73	-33.48	-11.54

*Note: Limit= Worst EIRP-50 dB=16.52-50=-33.48dBm

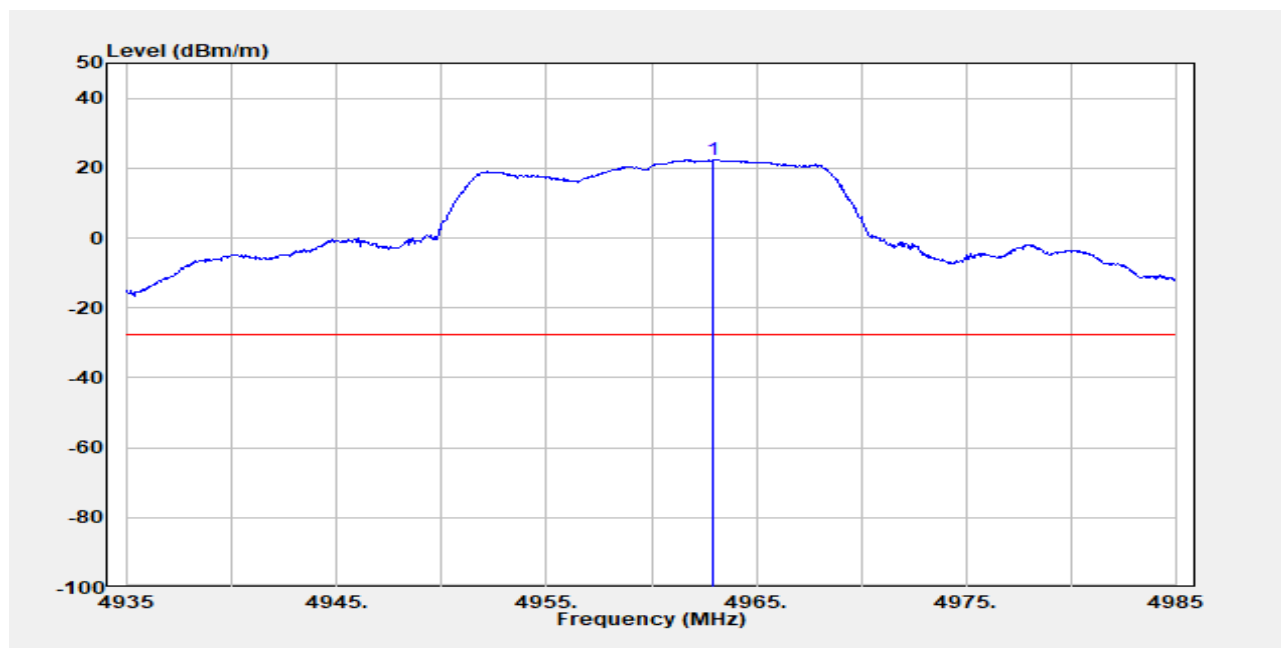
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13.4.3 Radiated Measurement Result (Test Mode: Mode 3)

Report Number	:ER/2021/A0120	Test Site	:SAC 3
Operation Mode	:4.9G 20M	Test Date	:2022-03-02
Test Mode	:Tx CH Low	Temp./Humi.	:23.2/50
EUT Pol	:E2 Plane	Antenna Pol.	:Vertical
Test Frequency	:4960 MHz	Engineer	:Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
4962.950	22.35	17.33	12.75	-7.73		

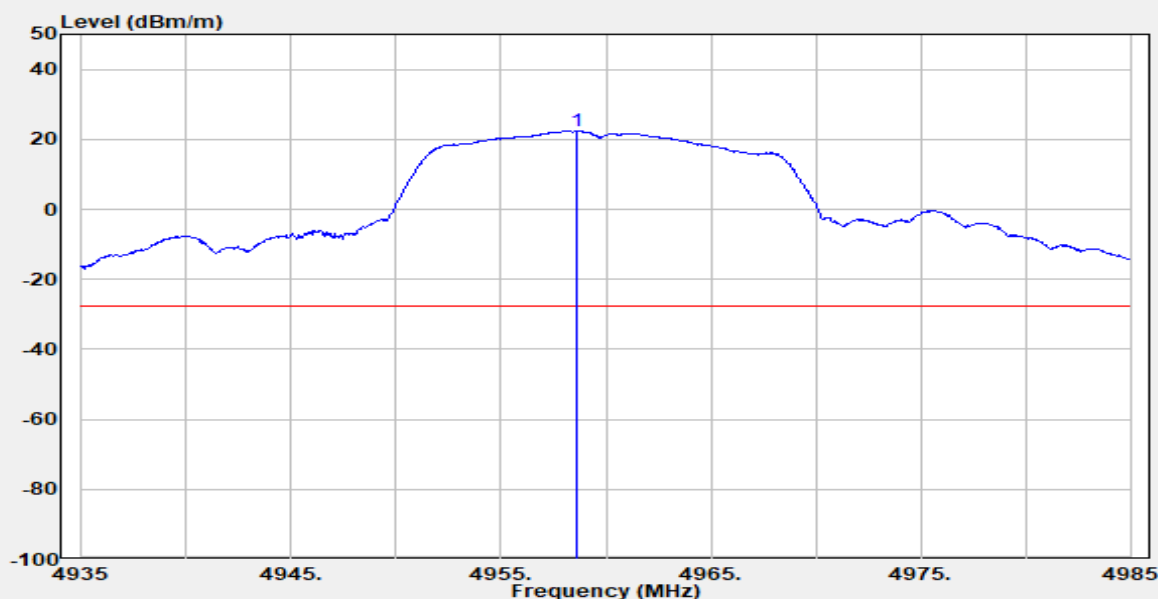
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Report Number :ER/2021/A0120
 Operation Mode :4.9G 20M
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :4960 MHz

Test Site :SAC 3
 Test Date :2022-03-02
 Temp./Humi. :23.2/50
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
4958.650	22.31	17.28	12.77	-7.74		

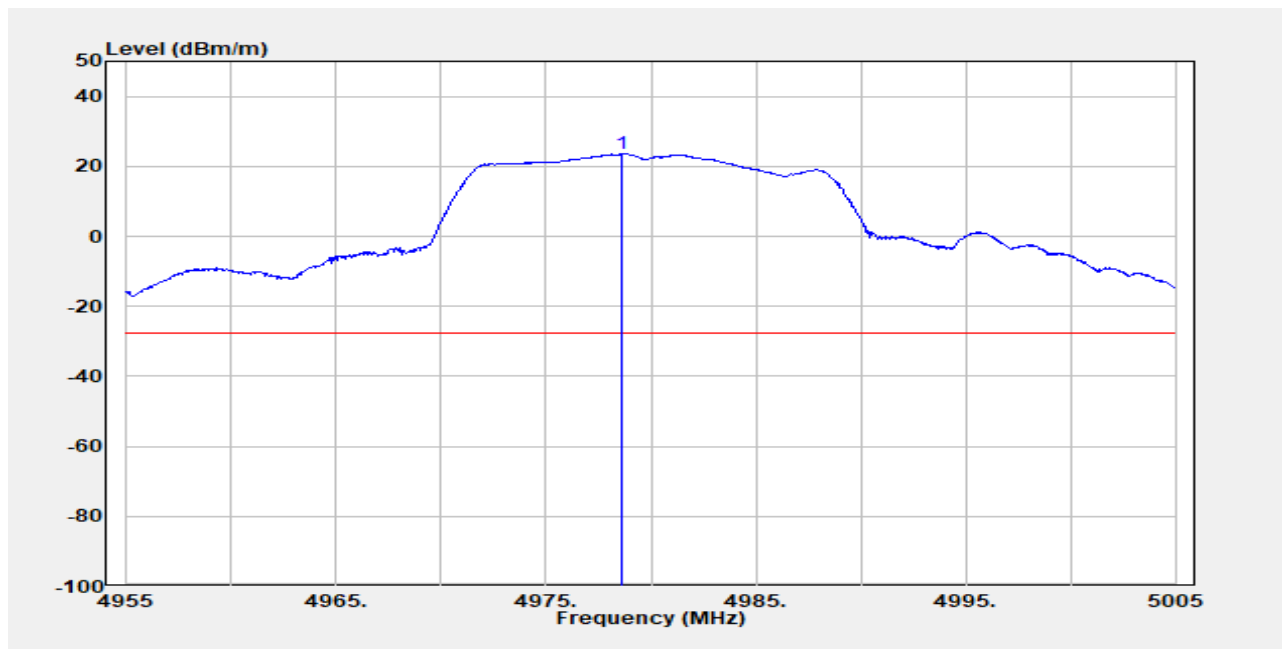
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Report Number :ER/2021/A0120
 Operation Mode :4.9G 20M
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :4980 MHz

Test Site :SAC 3
 Test Date :2022-03-02
 Temp./Humi. :23.2/50
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
4978.650	23.54	18.56	12.69	-7.71		

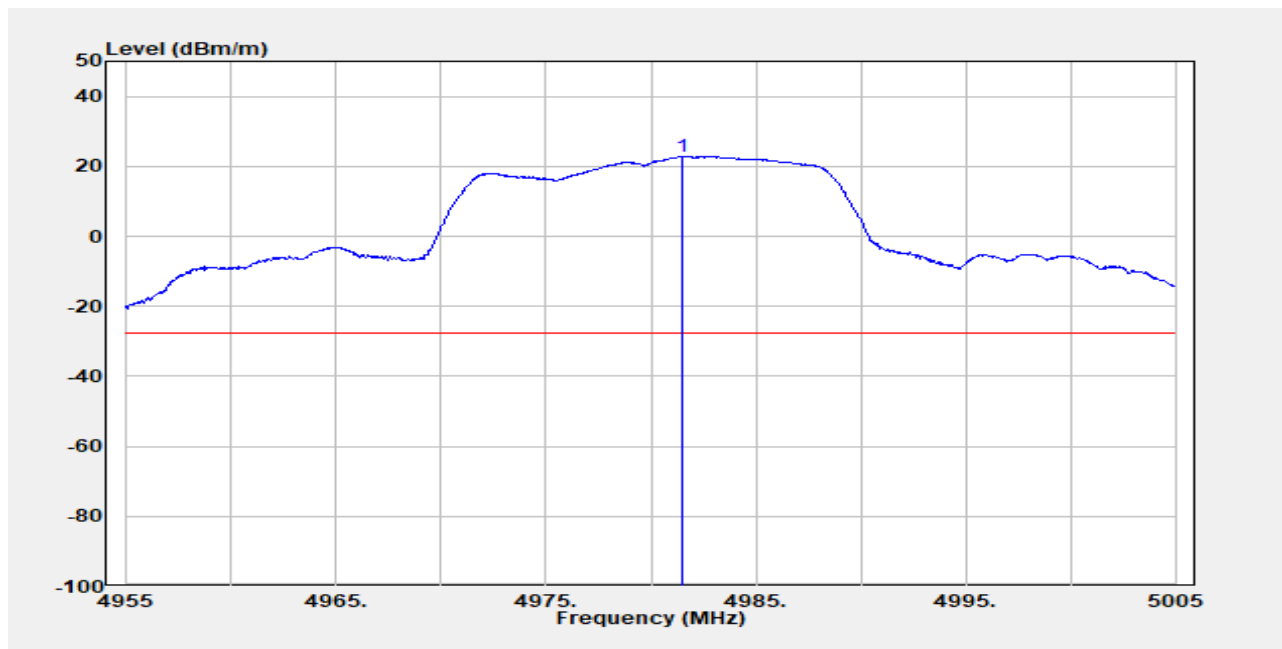
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Report Number :ER/2021/A0120
 Operation Mode :4.9G 20M
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :4980 MHz

Test Site :SAC 3
 Test Date :2022-03-02
 Temp./Humi. :23.2/50
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
4981.500	22.84	17.87	12.67	-7.70		

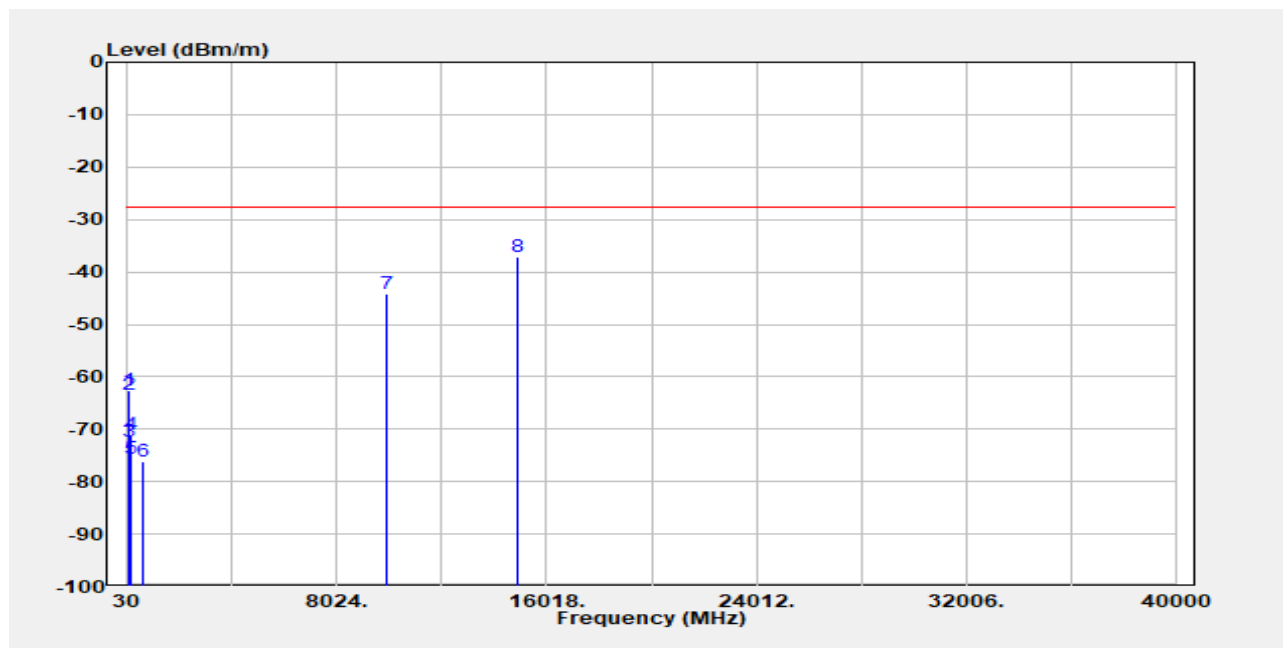
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Report Number :ER/2021/A0120
 Operation Mode :4.9G 20M
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :4960 MHz

Test Site :SAC 3
 Test Date :2022-03-03
 Temp./Humi. :23.2/50
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
53.280	-62.71	-51.11	-10.88	-0.72	-27.69	-35.02
73.650	-63.34	-55.75	-6.71	-0.87	-27.69	-35.65
105.660	-72.36	-63.07	-8.25	-1.05	-27.69	-44.67
156.100	-70.91	-65.45	-4.24	-1.23	-27.69	-43.22
179.380	-75.69	-72.55	-1.75	-1.39	-27.69	-48.00
625.580	-76.03	-73.06	-0.51	-2.46	-27.69	-48.34
9920.000	-44.28	-44.58	11.34	-11.04	-27.69	-16.59
14880.000	-37.22	-35.93	12.34	-13.63	-27.69	-9.53

*Note: Limit= Worst EIRP-50 dB=22.31-50=-27.69dBm

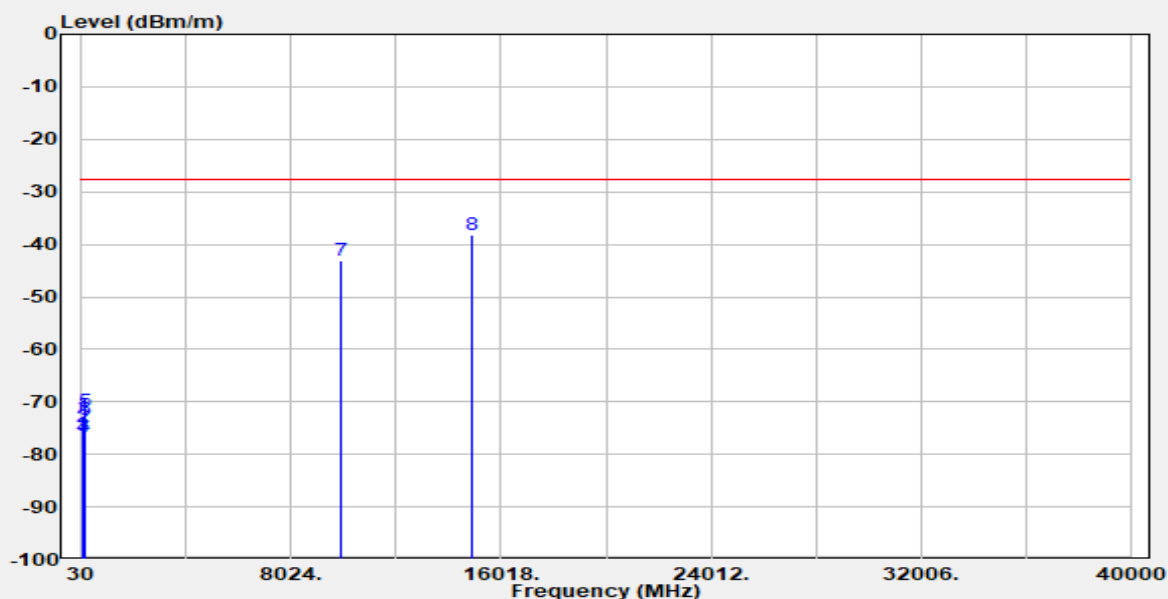
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Report Number :ER/2021/A0120
 Operation Mode :4.9G 20M
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :4960 MHz

Test Site :SAC 3
 Test Date :2022-03-03
 Temp./Humi. :23.2/50
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
54.250	-73.02	-61.91	-10.39	-0.72	-27.69	-45.33
63.950	-74.67	-66.17	-7.71	-0.79	-27.69	-46.98
71.710	-76.36	-68.65	-6.84	-0.86	-27.69	-48.67
89.170	-76.77	-68.81	-6.99	-0.97	-27.69	-49.08
156.100	-71.86	-66.39	-4.24	-1.23	-27.69	-44.17
177.440	-73.46	-70.18	-1.90	-1.37	-27.69	-45.77
9920.000	-42.96	-43.26	11.34	-11.04	-27.69	-15.27
14880.000	-38.31	-37.02	12.34	-13.63	-27.69	-10.62

*Note: Limit= Worst EIRP-50 dB=22.31-50=-27.69dBm

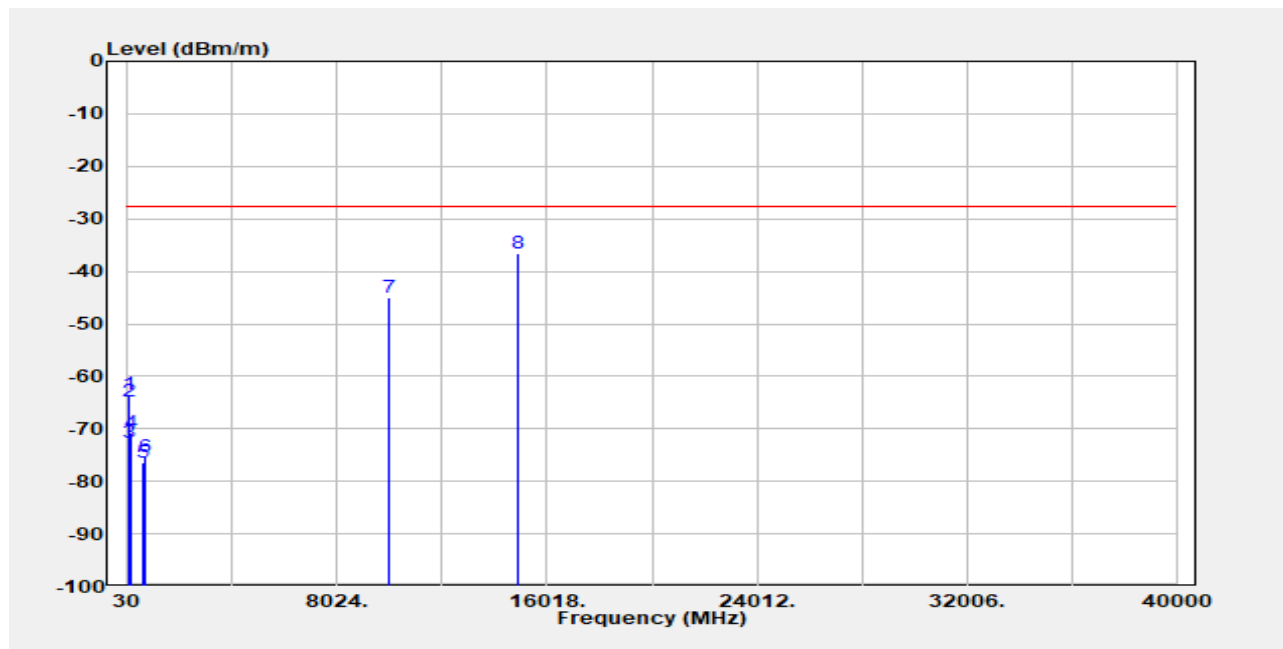
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Report Number :ER/2021/A0120
 Operation Mode :4.9G 20M
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :4980 MHz

Test Site :SAC 3
 Test Date :2022-03-03
 Temp./Humi. :23.2/50
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
50.370	-63.31	-50.28	-12.33	-0.70	-27.69	-35.62
73.650	-64.65	-57.07	-6.71	-0.87	-27.69	-36.96
107.600	-72.63	-63.38	-8.19	-1.06	-27.69	-44.94
156.100	-70.87	-65.40	-4.24	-1.23	-27.69	-43.18
610.060	-76.54	-73.29	-0.62	-2.63	-27.69	-48.85
692.510	-75.32	-72.08	-0.17	-3.07	-27.69	-47.63
9960.000	-45.08	-45.33	11.44	-11.19	-27.69	-17.39
14940.000	-36.70	-35.53	12.56	-13.73	-27.69	-9.01

*Note: Limit= Worst EIRP-50 dB=22.31-50=-27.69dBm

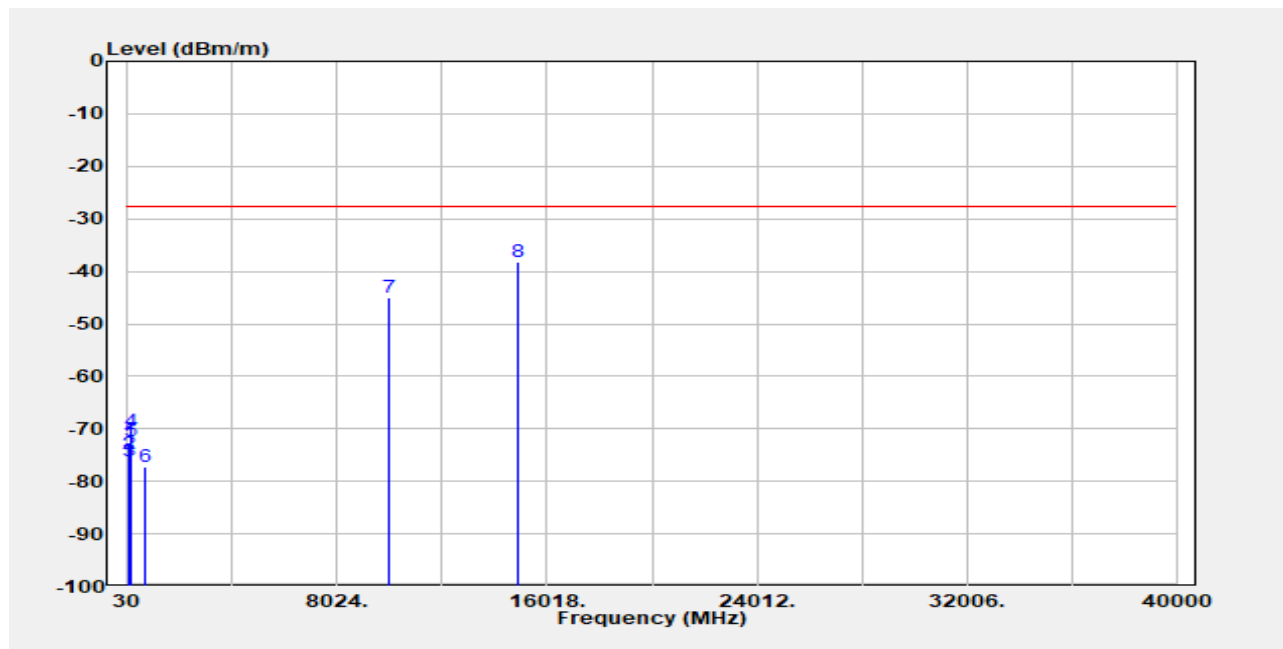
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Report Number :ER/2021/A0120
Operation Mode :4.9G 20M
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Frequency :4980 MHz

Test Site :SAC 3
Test Date :2022-03-03
Temp./Humi. :23.2/50
Antenna Pol. :Horizontal
Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
54.250	-72.60	-61.49	-10.39	-0.72	-27.69	-44.91
63.950	-74.92	-66.42	-7.71	-0.79	-27.69	-47.23
89.170	-76.17	-68.21	-6.99	-0.97	-27.69	-48.48
156.100	-70.48	-65.01	-4.24	-1.23	-27.69	-42.79
178.410	-72.30	-69.12	-1.80	-1.38	-27.69	-44.61
686.690	-77.23	-73.91	-0.26	-3.07	-27.69	-49.54
9960.000	-44.97	-45.22	11.44	-11.19	-27.69	-17.28
14940.000	-38.21	-37.04	12.56	-13.73	-27.69	-10.52

*Note: Limit= Worst EIRP-50 dB=22.31-50=-27.69dBm

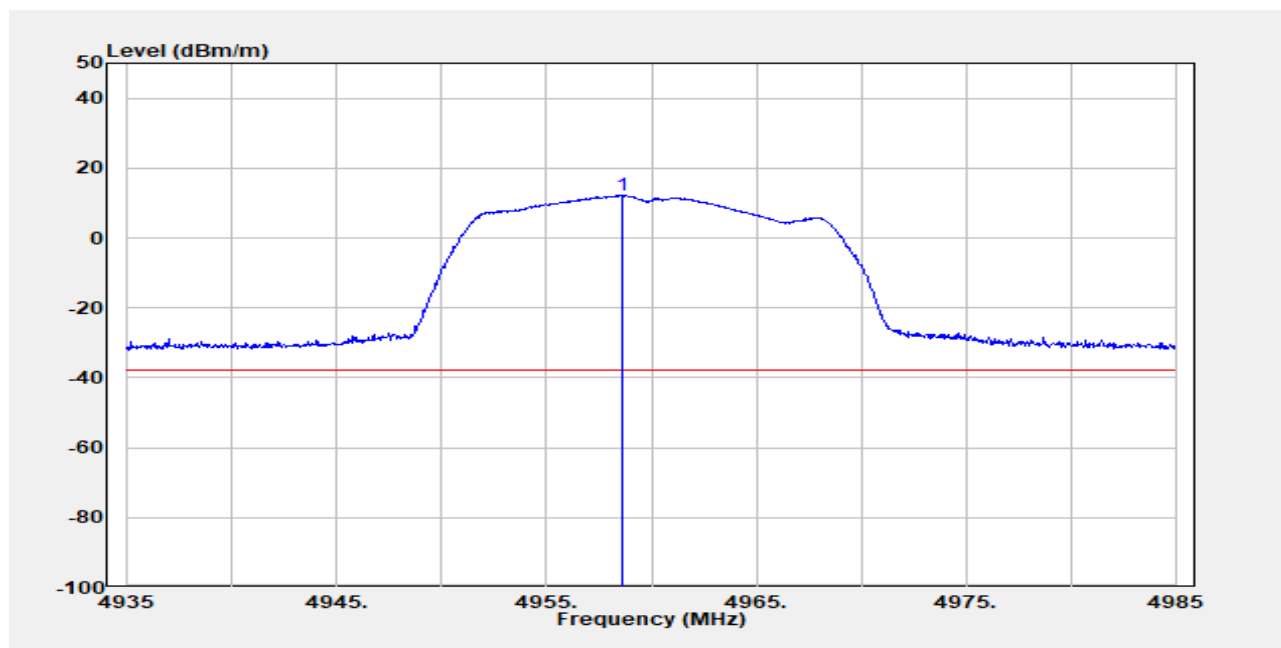
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13.4.4 Radiated Measurement Result (Test Mode: Mode 4)

Report Number	:ER/2021/A0120	Test Site	:SAC 3
Operation Mode	:4.9G 20M	Test Date	:2022-03-02
Test Mode	:Tx CH Low	Temp./Humi.	:23.2/50
EUT Pol	:E2 Plane	Antenna Pol.	:Vertical
Test Frequency	:4960 MHz	Engineer	:Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level	Gain	Loss	dBm	dB
4958.600	12.06	7.03	12.77	-7.74		

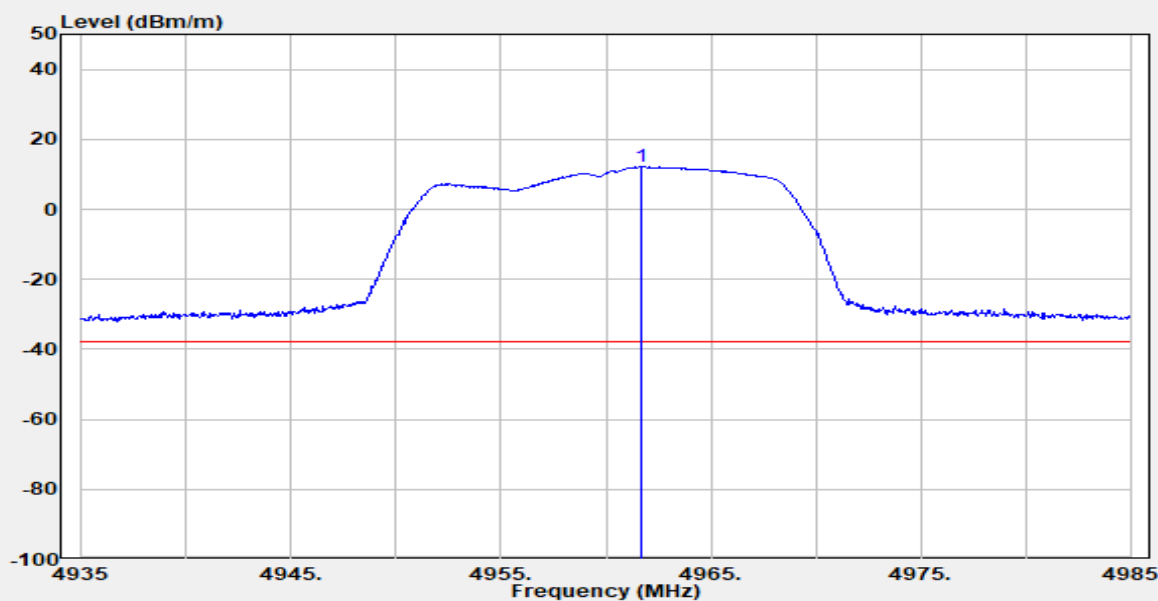
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Report Number :ER/2021/A0120
 Operation Mode :4.9G 20M
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :4960 MHz

Test Site :SAC 3
 Test Date :2022-03-02
 Temp./Humi. :23.2/50
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
4961.700	12.11	7.09	12.75	-7.73		

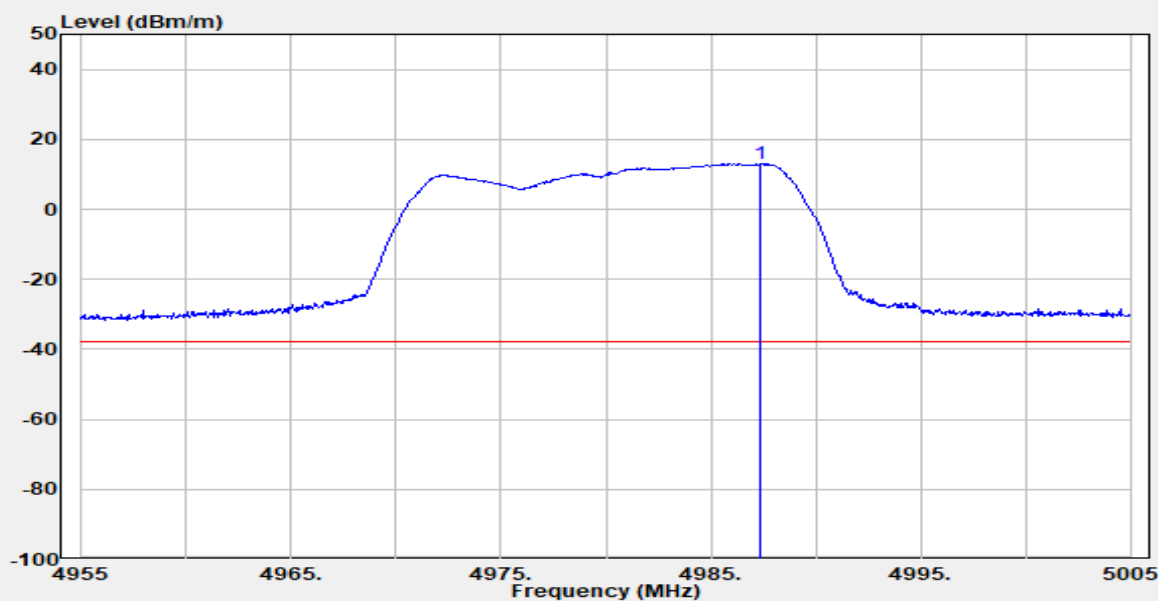
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Report Number :ER/2021/A0120
 Operation Mode :4.9G 20M
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :4980 MHz

Test Site :SAC 3
 Test Date :2022-03-02
 Temp./Humi. :23.2/50
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
4987.400	12.93	7.97	12.65	-7.70		

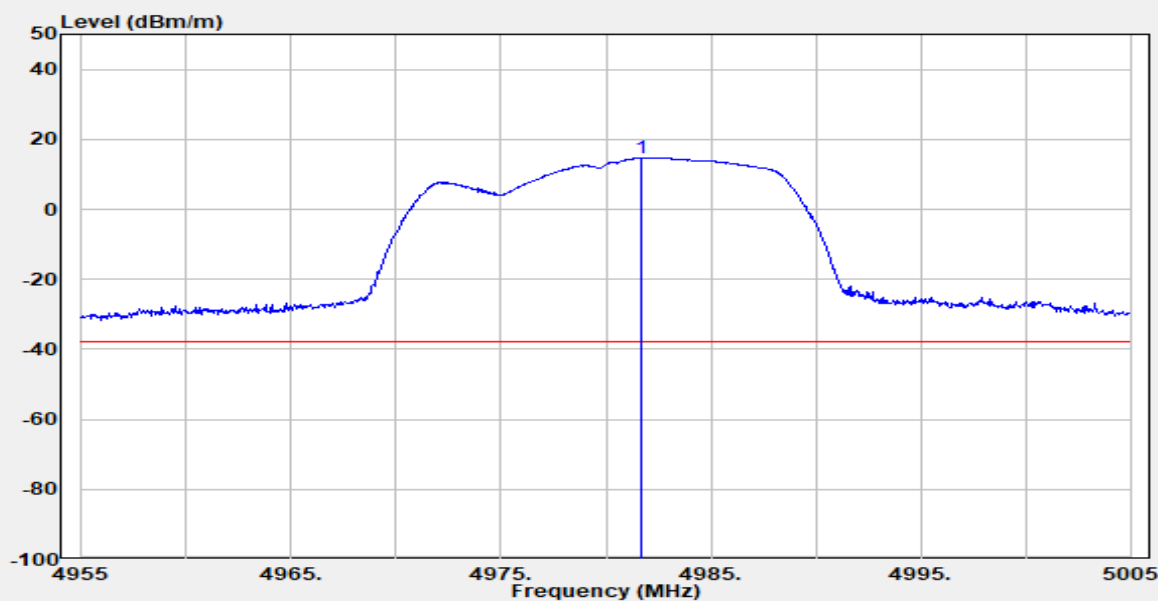
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Report Number :ER/2021/A0120
 Operation Mode :4.9G 20M
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :4980 MHz

Test Site :SAC 3
 Test Date :2022-03-02
 Temp./Humi. :23.2/50
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
4981.700	14.61	9.64	12.67	-7.70		

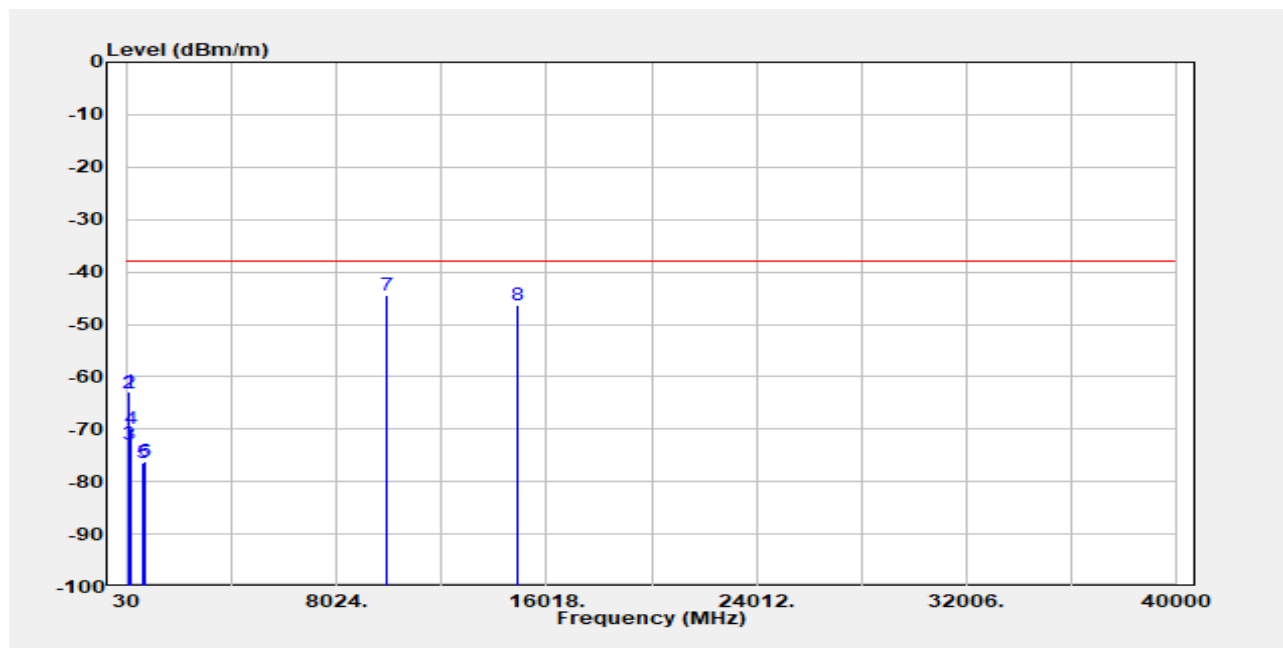
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Report Number :ER/2021/A0120
Operation Mode :4.9G 20M
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Frequency :4960 MHz

Test Site :SAC 3
Test Date :2022-03-03
Temp./Humi. :23.2/50
Antenna Pol. :Vertical
Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
53.280	-62.83	-51.23	-10.88	-0.72	-37.94	-24.89
73.650	-63.18	-55.60	-6.71	-0.87	-37.94	-25.24
105.660	-72.87	-63.58	-8.25	-1.05	-37.94	-34.93
156.100	-69.80	-64.33	-4.24	-1.23	-37.94	-31.86
617.820	-76.40	-73.27	-0.67	-2.47	-37.94	-38.46
695.420	-76.20	-73.02	-0.19	-2.99	-37.94	-38.26
9920.000	-44.51	-44.81	11.34	-11.04	-37.94	-6.57
14880.000	-46.25	-44.96	12.34	-13.63	-37.94	-8.31

*Note: Limit= Worst EIRP-50 dB=12.06-50=-37.94dBm

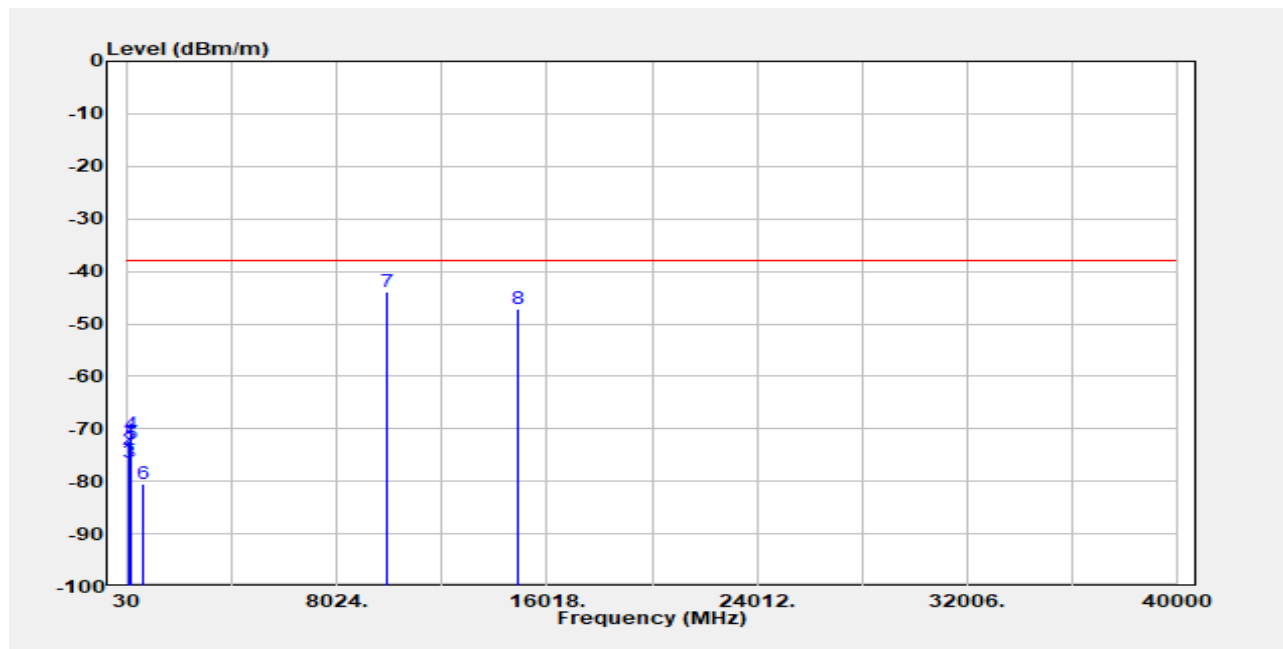
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Report Number :ER/2021/A0120
Operation Mode :4.9G 20M
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Frequency :4960 MHz

Test Site :SAC 3
Test Date :2022-03-03
Temp./Humi. :23.2/50
Antenna Pol. :Horizontal
Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
53.280	-72.44	-60.84	-10.88	-0.72	-37.94	-34.50
63.950	-74.07	-65.57	-7.71	-0.79	-37.94	-36.13
96.930	-76.46	-67.36	-8.09	-1.01	-37.94	-38.52
153.190	-70.92	-65.22	-4.50	-1.20	-37.94	-32.98
178.410	-72.89	-69.71	-1.80	-1.38	-37.94	-34.95
596.480	-80.35	-76.87	-0.79	-2.70	-37.94	-42.41
9920.000	-43.83	-44.13	11.34	-11.04	-37.94	-5.89
14880.000	-47.26	-45.97	12.34	-13.63	-37.94	-9.32

*Note: Limit= Worst EIRP-50 dB=12.06-50=-37.94dBm

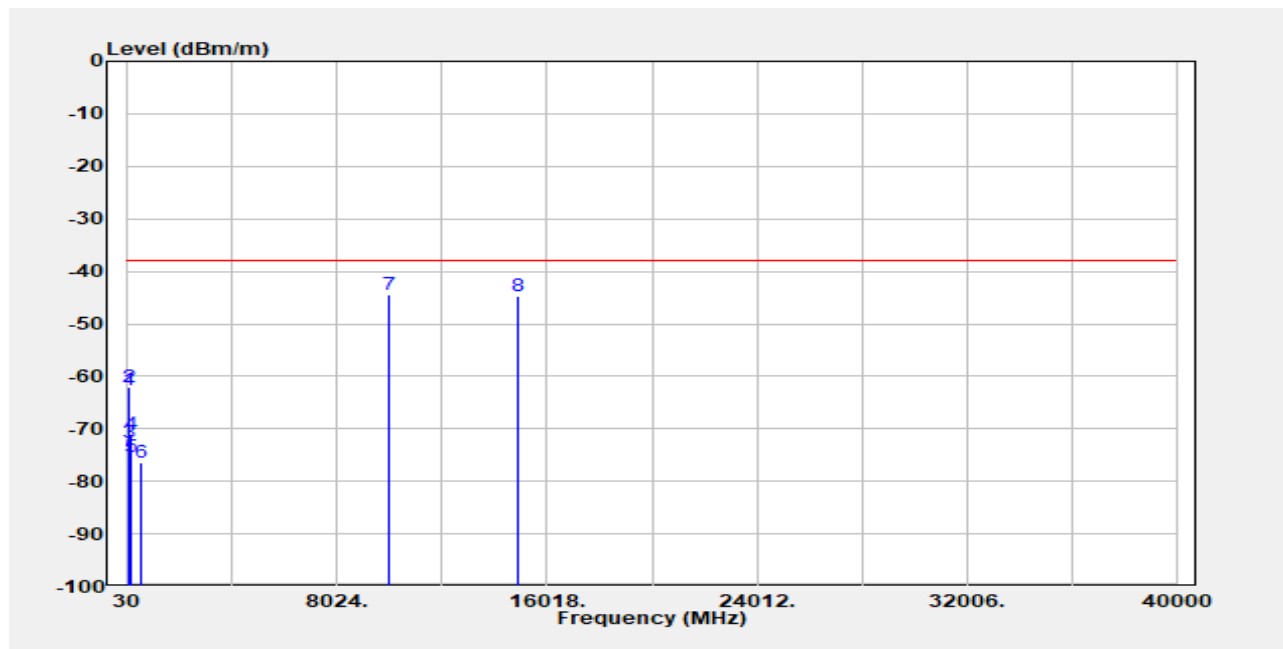
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Report Number :ER/2021/A0120
 Operation Mode :4.9G 20M
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :4980 MHz

Test Site :SAC 3
 Test Date :2022-03-03
 Temp./Humi. :23.2/50
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
53.280	-62.51	-50.91	-10.88	-0.72	-37.94	-24.57
72.680	-61.97	-54.41	-6.70	-0.87	-37.94	-24.03
105.660	-72.57	-63.27	-8.25	-1.05	-37.94	-34.63
158.040	-71.13	-65.83	-4.05	-1.25	-37.94	-33.19
179.380	-75.23	-72.09	-1.75	-1.39	-37.94	-37.29
573.200	-76.47	-72.99	-0.76	-2.72	-37.94	-38.53
9960.000	-44.43	-44.68	11.44	-11.19	-37.94	-6.49
14940.000	-44.79	-43.62	12.56	-13.73	-37.94	-6.85

*Note: Limit= Worst EIRP-50 dB=12.06-50=-37.94dBm

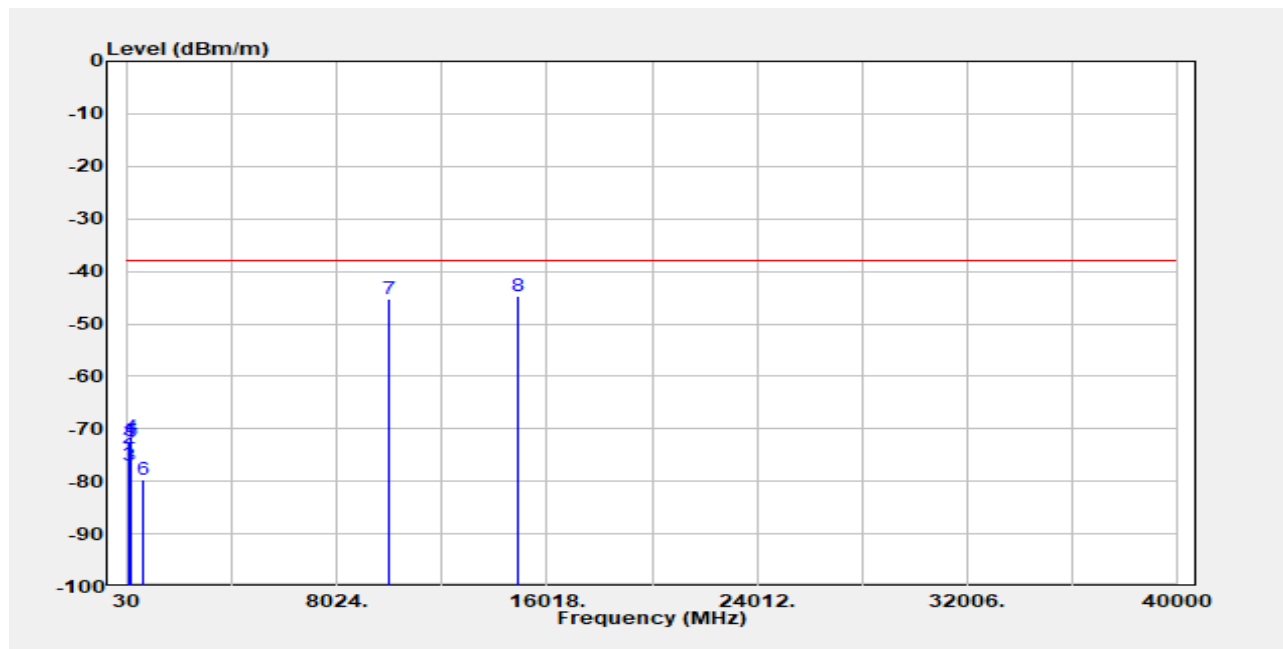
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Report Number :ER/2021/A0120
Operation Mode :4.9G 20M
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Frequency :4980 MHz

Test Site :SAC 3
Test Date :2022-03-03
Temp./Humi. :23.2/50
Antenna Pol. :Horizontal
Engineer :Ricky Chen



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
53.280	-72.37	-60.77	-10.88	-0.72	-37.94	-34.43
63.950	-73.69	-65.19	-7.71	-0.79	-37.94	-35.75
96.930	-76.93	-67.83	-8.09	-1.01	-37.94	-38.99
157.070	-71.61	-66.36	-4.01	-1.24	-37.94	-33.67
178.410	-72.37	-69.19	-1.80	-1.38	-37.94	-34.43
614.910	-79.66	-76.48	-0.65	-2.53	-37.94	-41.72
9960.000	-45.38	-45.63	11.44	-11.19	-37.94	-7.44
14940.000	-44.58	-43.41	12.56	-13.73	-37.94	-6.64

*Note: Limit= Worst EIRP-50 dB=12.06-50=-37.94dBm

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14 FREQUENCY STABILITY MEASUREMENT

14.1 Standard Applicable

According to FCC §2.1055(d) (2) and §90.213

- (a) Unless noted elsewhere, transmitters used in the services governed by this part must have a minimum frequency stability as specified in the following table.

MINIMUM FREQUENCY STABILITY
[Parts per million (ppm)]

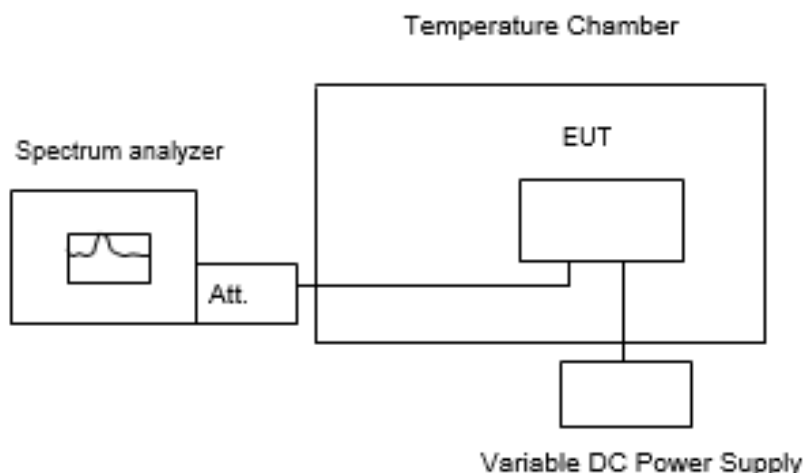
Frequency range (MHz)	Fixed and base stations	Mobile stations	
		Over 2 watts output power	2 watts or less output power
Below 25	^{1,2,3} 100	100	200
25–50	20	20	50
72–76	5		50
150–174	^{5,11} 5	⁶ 5	^{4,6} 50
216–220	1.0		1.0
220–222 ¹²	0.1	1.5	1.5
421–512	^{7,11,14} 2.5	⁸ 5	⁸ 5
806–809	¹⁴ 1.0	1.5	1.5
809–824	¹⁴ 1.5	2.5	2.5
851–854	1.0	1.5	1.5
854–869	1.5	2.5	2.5
896–901	¹⁴ 0.1	1.5	1.5
902–928	2.5	2.5	2.5
902–928 ¹³	2.5	2.5	2.5
929–930	1.5		
935–940	0.1	1.5	1.5
1427–1435	⁹ 300	300	300
Above 2450 ¹⁰			

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14.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

14.3 Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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14.4 Measurement Result

14.4.1 Test Mode: Mode 1

Test Temp.(°C)	Test Voltage(V)	Channel	Nominal Center Frequency (MHz)	Calculated Center Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Result
50	120	192	4960	4959.997	0.60	10	PASS
40		192	4960	4960.008	1.61	10	PASS
30		192	4960	4960.015	3.02	10	PASS
20		192	4960	4960.021	4.23	10	PASS
10		192	4960	4960.044	8.87	10	PASS
0		192	4960	4960.006	1.21	10	PASS
-10		192	4960	4960.036	7.26	10	PASS
-20		192	4960	4960.033	6.65	10	PASS
-30		192	4960	4960.039	7.86	10	PASS
Test Temp.(°C)	Test Voltage(V)	Channel	Nominal Center Frequency (MHz)	Calculated Center Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Result
25	138	192	4960	4960.025	5.04	10	PASS
	120	192	4960	4959.996	0.81	10	PASS
	102	192	4960	4960.025	5.04	10	PASS

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14.4.2 Test Mode: Mode 2

Test Temp.(°C)	Test Voltage(V)	Channel	Nominal Center Frequency (MHz)	Calculated Center Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Result
50	120	192	4960	4960.029	5.85	10	PASS
40		192	4960	4960.036	7.26	10	PASS
30		192	4960	4959.996	0.81	10	PASS
20		192	4960	4960.007	1.41	10	PASS
10		192	4960	4960.039	7.86	10	PASS
0		192	4960	4960.044	8.87	10	PASS
-10		192	4960	4960.019	3.83	10	PASS
-20		192	4960	4960.040	8.06	10	PASS
-30		192	4960	4959.991	1.81	10	PASS
Test Temp.(°C)	Test Voltage(V)	Channel	Nominal Center Frequency (MHz)	Calculated Center Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Result
25	138	192	4960	4960.008	1.61	10	PASS
	120	192	4960	4960.029	5.85	10	PASS
	102	192	4960	4960.020	4.03	10	PASS

~ End of Report ~

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