

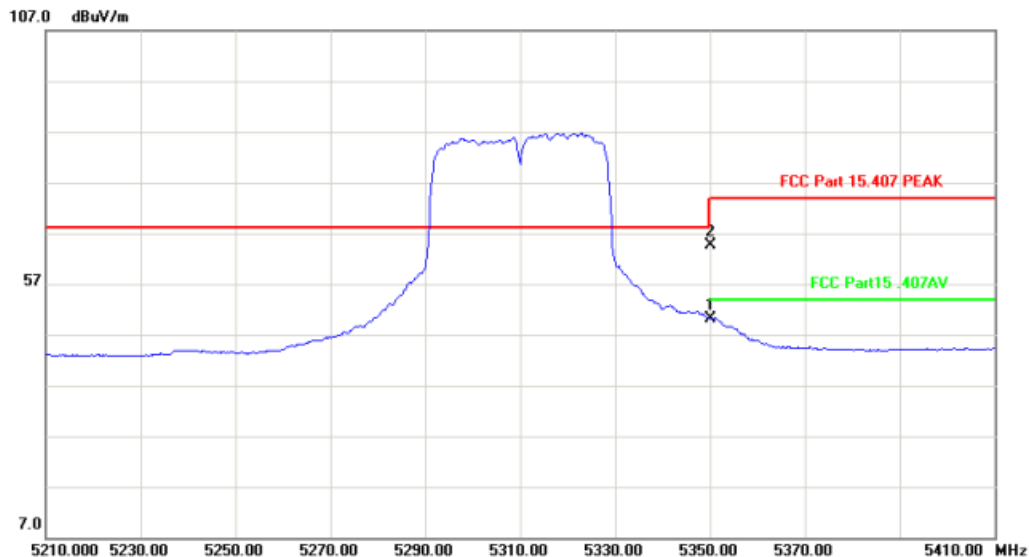
Above 1G (1GHz~40GHz)

Test mode:11AC40

Test Channel:62

VERTICAL

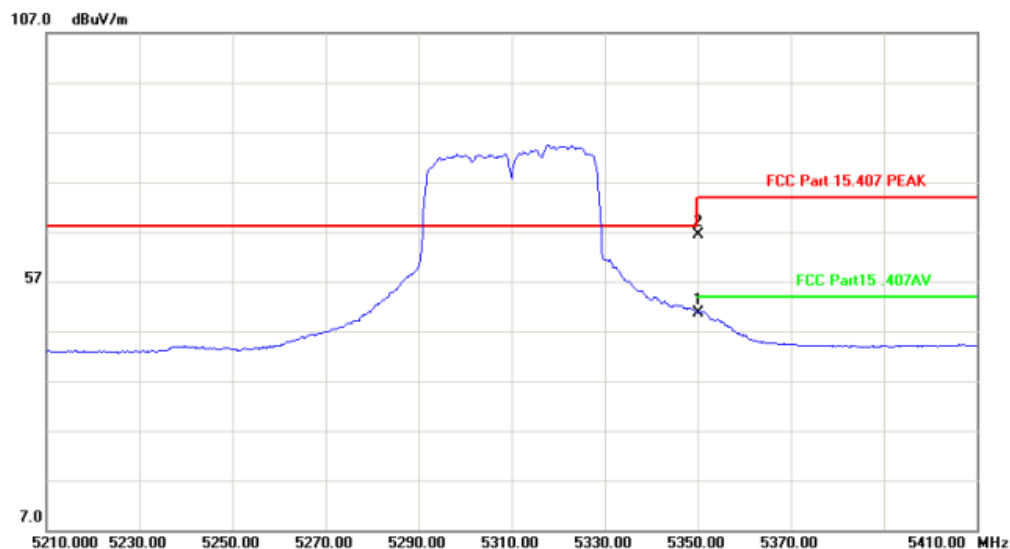
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	5350.000	49.61	0.55	50.16	54.00	-3.84	AVG		
2		5350.000	63.97	0.55	64.52	74.00	-9.48	peak		

HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	5350.000	50.19	0.55	50.74	54.00	-3.26	AVG		
2		5350.000	65.73	0.55	66.28	74.00	-7.72	peak		

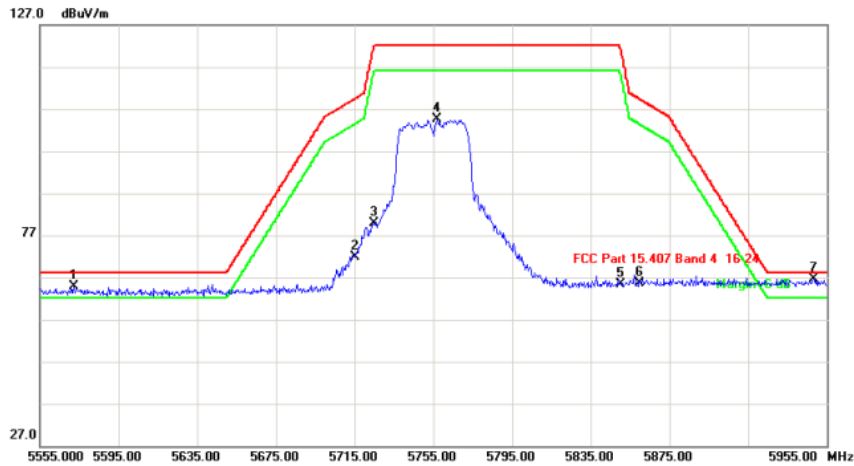
Above 1G (1GHz~40GHz)

Test mode:11AC40

Test Channel:151

VERTICAL

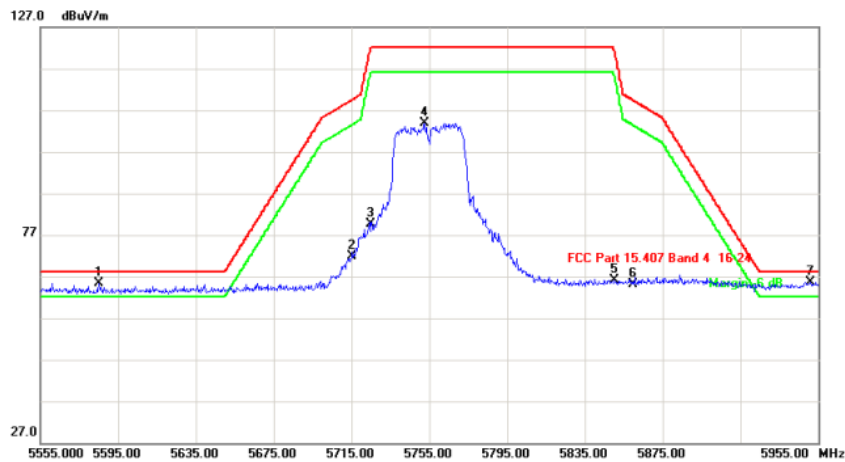
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	!	5572.200	63.56	1.22	64.78	68.20	-3.42	peak		
2		5715.000	70.21	1.66	71.87	109.40	-37.53	peak		
3		5725.000	78.14	1.69	79.83	122.20	-42.37	peak		
4		5756.600	102.86	1.78	104.64	122.20	-17.56	peak		
5		5850.000	63.30	2.07	65.37	122.20	-56.83	peak		
6		5860.000	63.48	2.10	65.58	109.40	-43.82	peak		
7	*	5948.200	64.34	2.36	66.70	68.20	-1.50	peak		

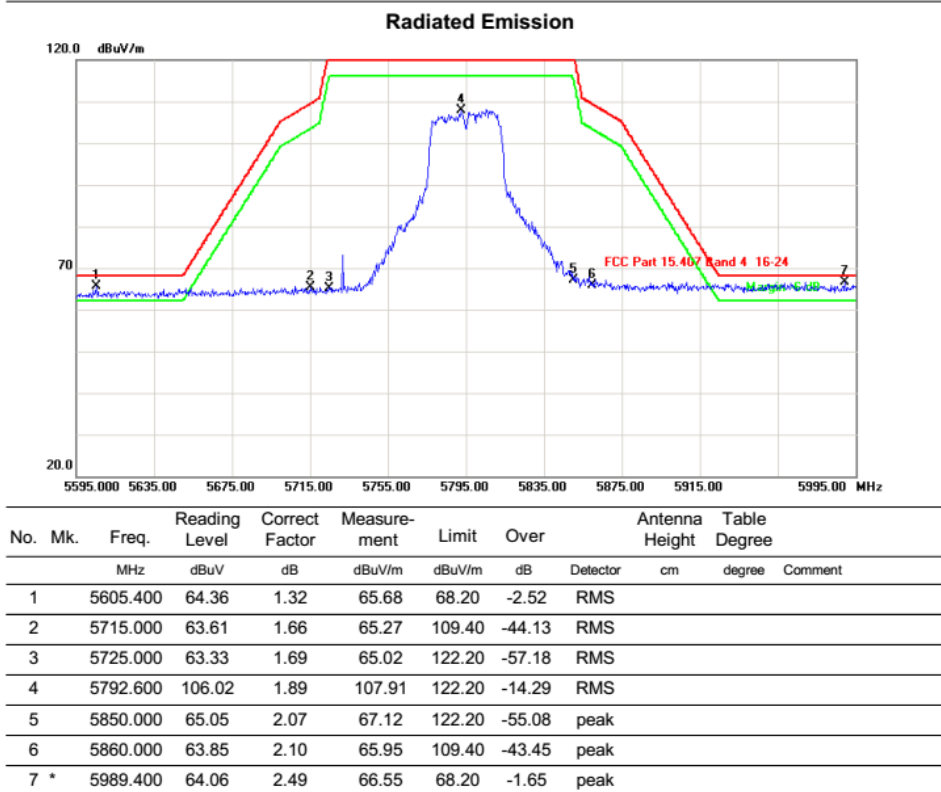
HORIZONTAL

Radiated Emission

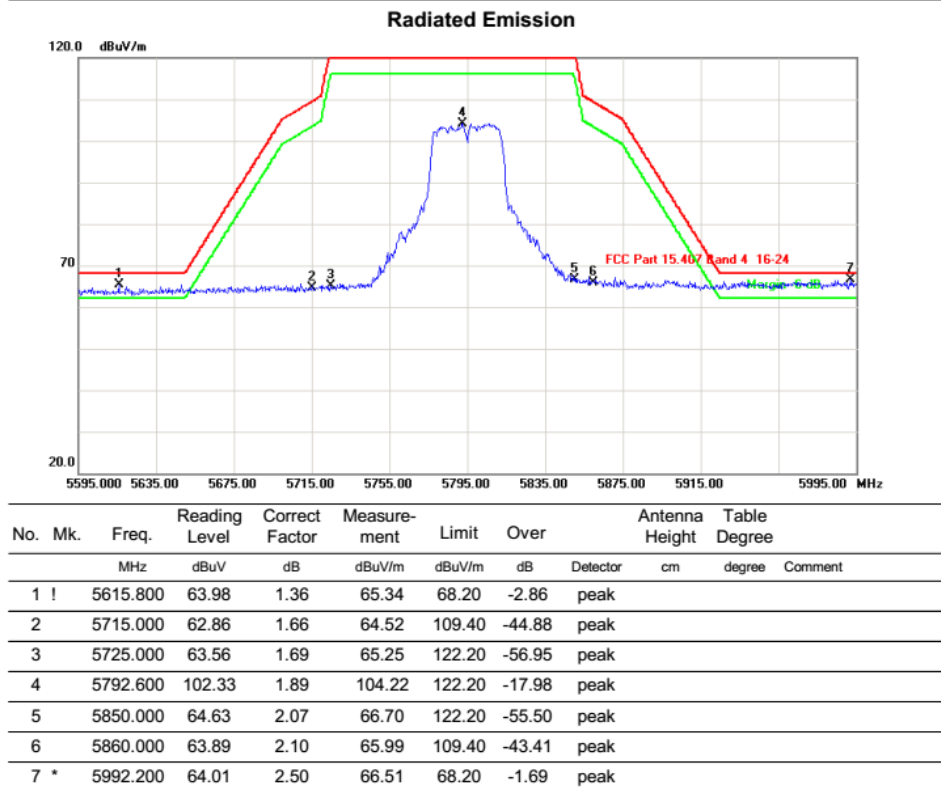


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	!	5585.000	64.01	1.26	65.27	68.20	-2.93	peak		
2		5715.000	70.11	1.66	71.77	109.40	-37.63	peak		
3		5725.000	77.86	1.69	79.55	122.20	-42.65	peak		
4		5752.600	102.09	1.77	103.86	122.20	-18.34	peak		
5		5850.000	64.13	2.07	66.20	122.20	-56.00	peak		
6		5860.000	63.07	2.10	65.17	109.40	-44.23	peak		
7	*	5951.000	63.36	2.37	65.73	68.20	-2.47	peak		

VERTICAL



HORIZONTAL

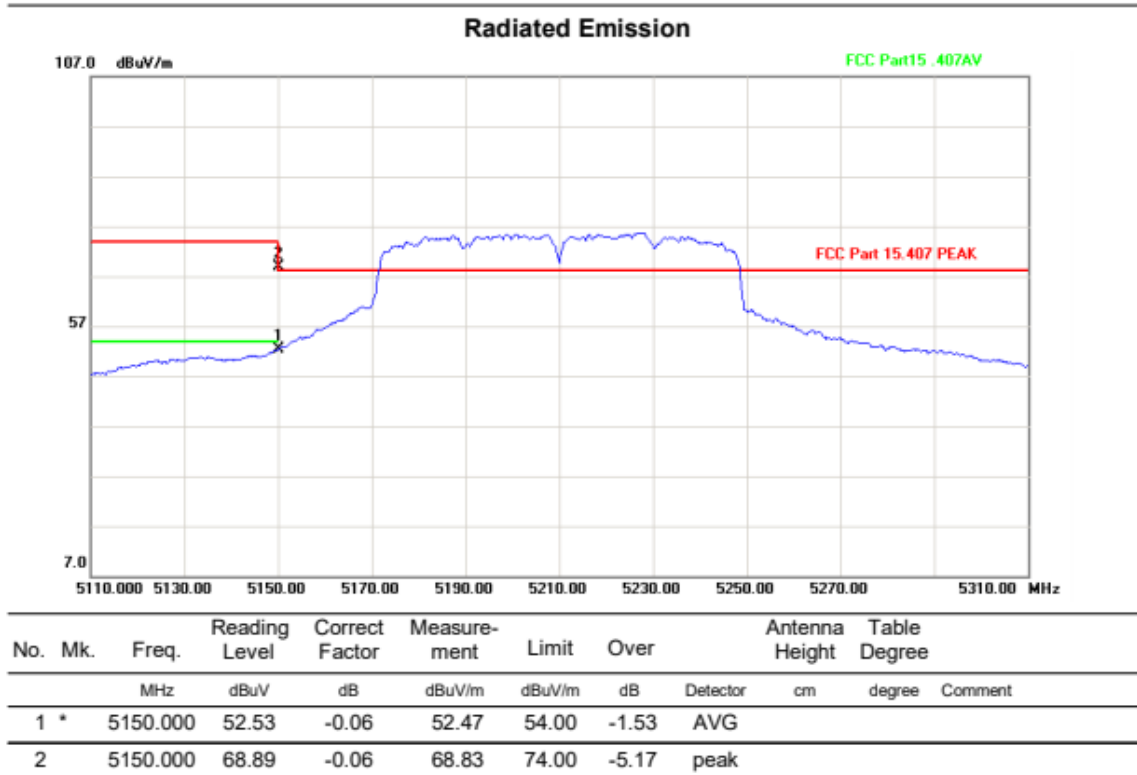


Above 1G (1GHz~40GHz)

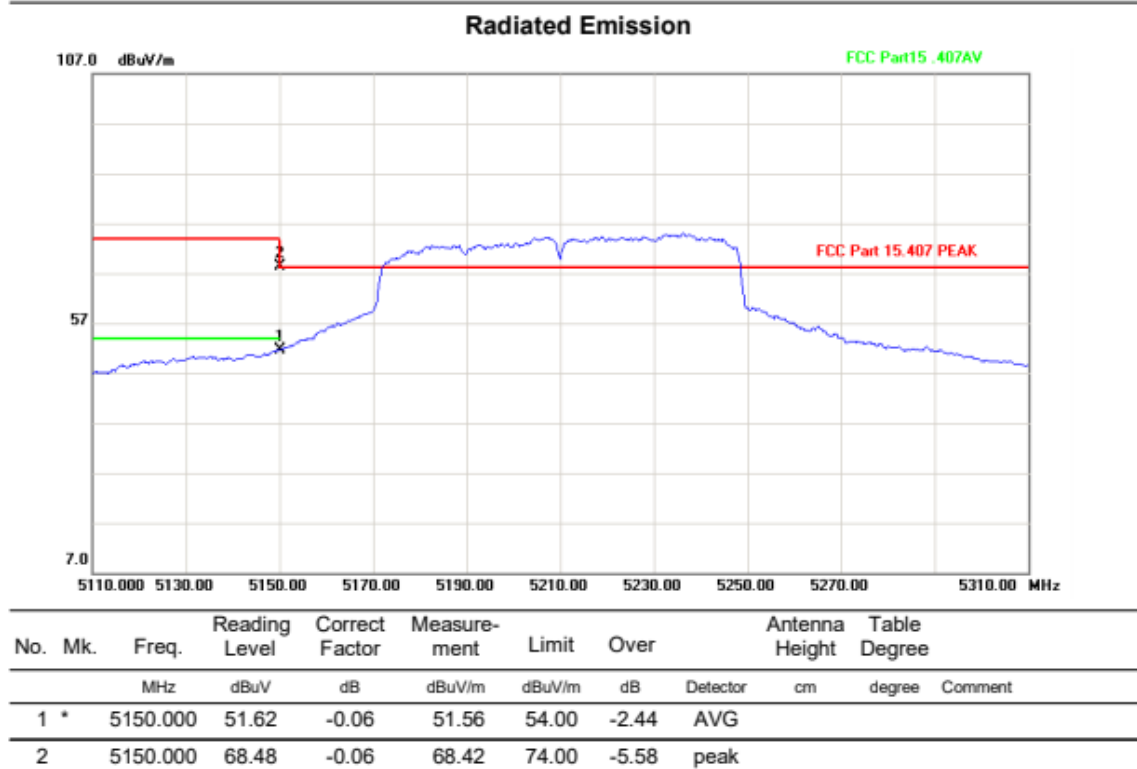
Test mode:11AC80

Test Channel:42

VERTICAL



HORIZONTAL

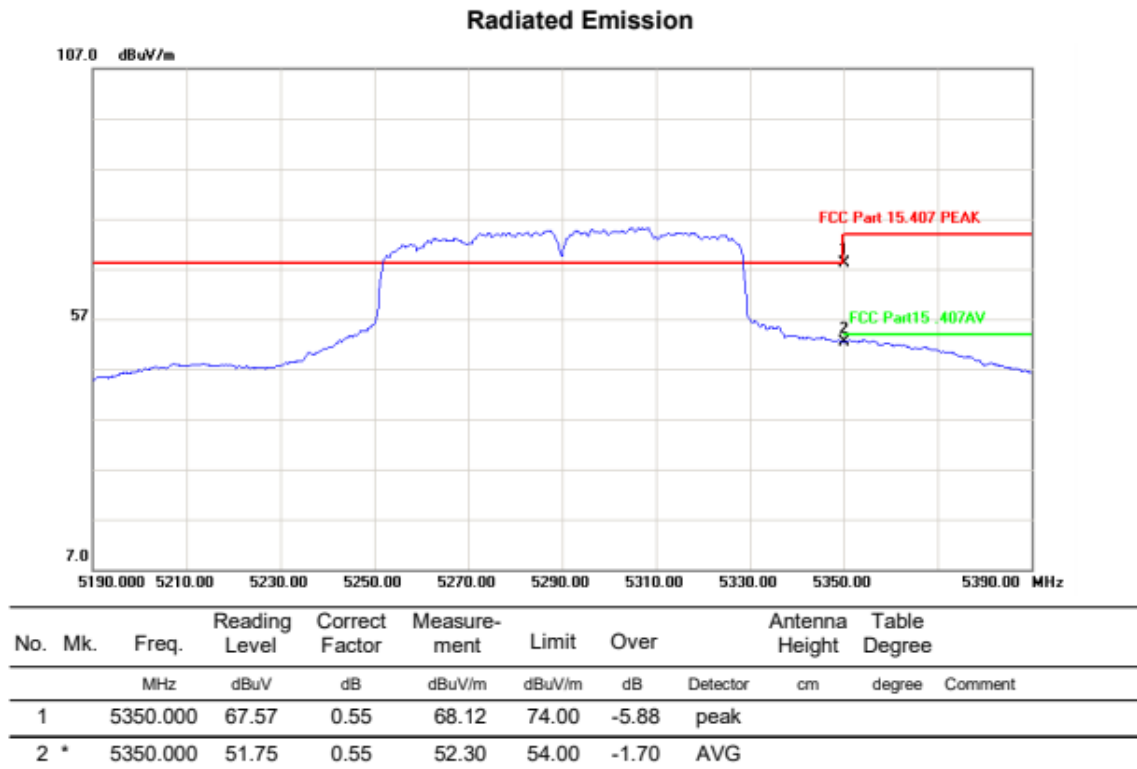


Above 1G (1GHz~40GHz)

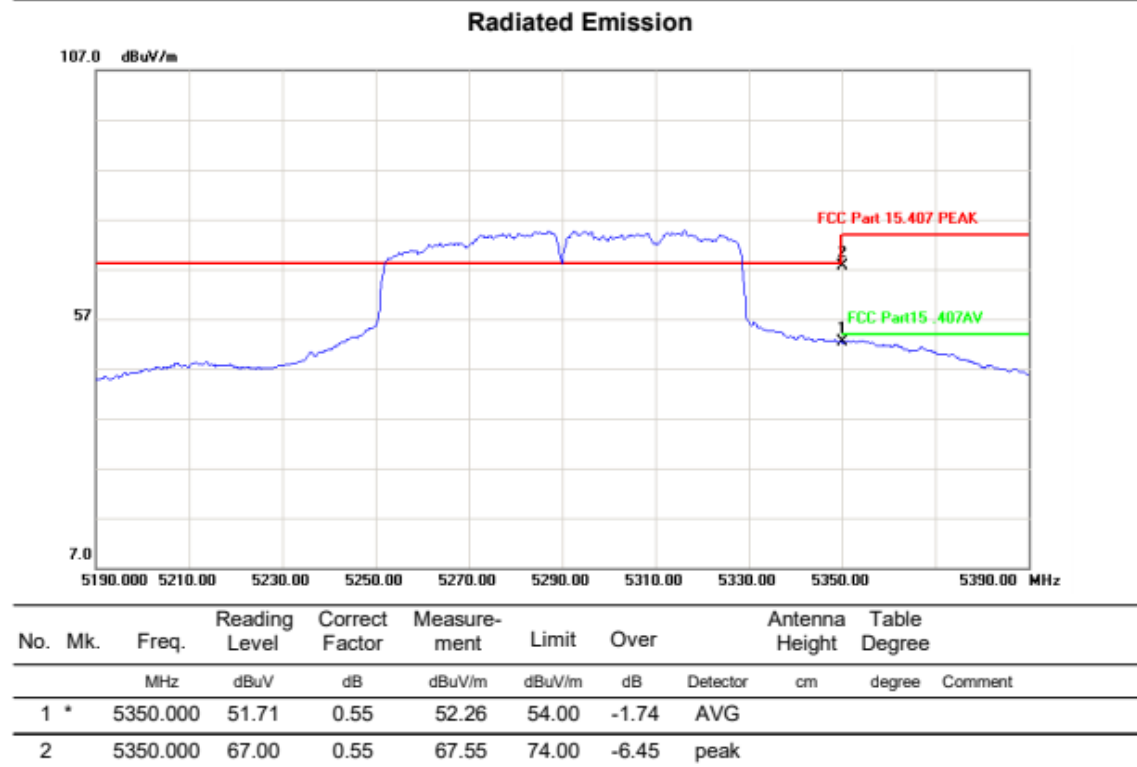
Test mode:11AC80

Test Channel:58

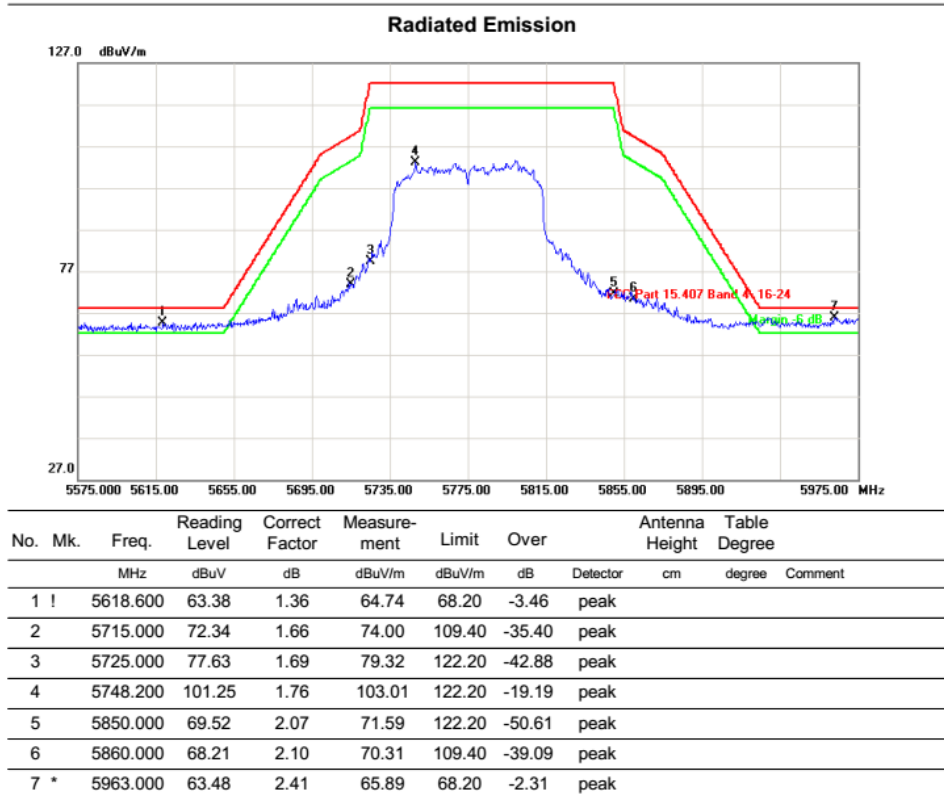
VERTICAL



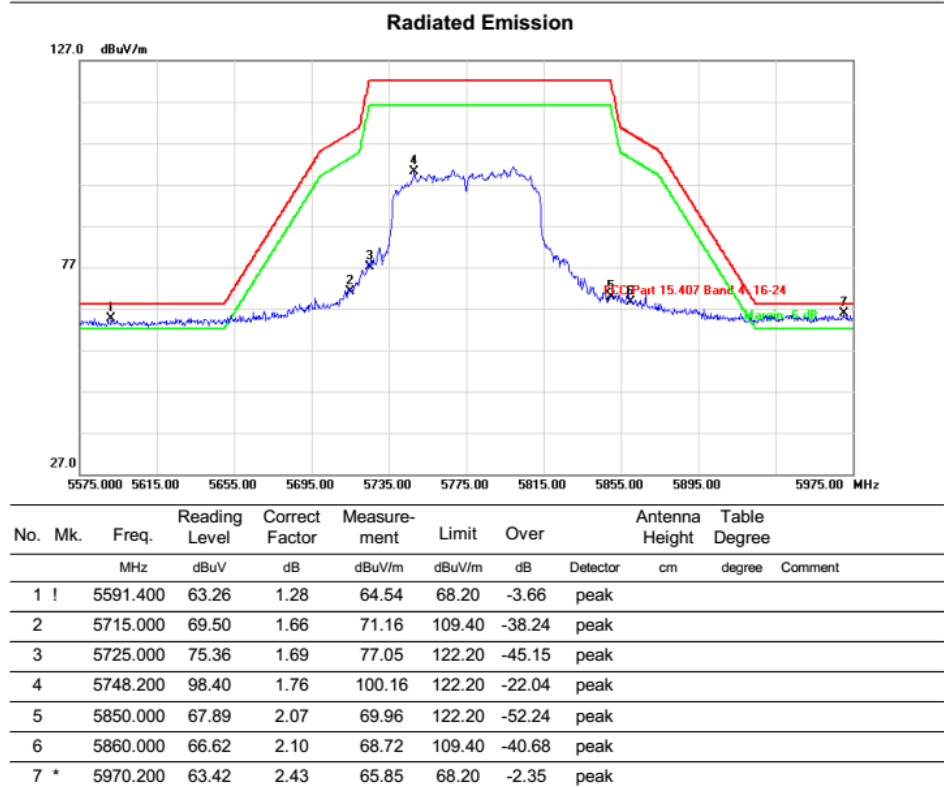
HORIZONTAL



VERTICAL



HORIZONTAL



3.3 Spectrum Bandwidth

3.3.1 Limit

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	26 dB Bandwidth	-	5150-5250
	26 dB Bandwidth	-	5250-5350
15.407(e)	26 dB Bandwidth	-	5470-5725
	6 dB Bandwidth	Minimum 500 kHz	5725-5850

3.3.2 Test Peripherals

Support Equipment				
No.	Equipment	Brand Name	Model Name	Remarks
1	Type-C Cable	AWM	E101344	0.9m, No Shielding
2	Adaptor	FUSHIGANG	AS1201A-0502000 USU	NA
3	Record PC	Lenovo	M4500T	NA
4	Control PC	Lenovo	M4500T	NA

3.3.3 Test Procedure

Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Test Channels	
☒ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ● : Test ○ : No Test	

a) The EUT shall be connected to the spectrum analyser, and the spectrum analyser is set as follow:
For 26 dB Bandwidth

Centre Frequency	The centre frequency of the channel under test
RBW	$\geq 1\% \times \text{Nominal Channel Bandwidth}$
VBW	$\geq 3 \times \text{RBW}$
Frequency span	2 x Nominal Channel Bandwidth
Detector Mode	Peak
Trace Mode	Max Hold
Sweep Time	Auto Couple

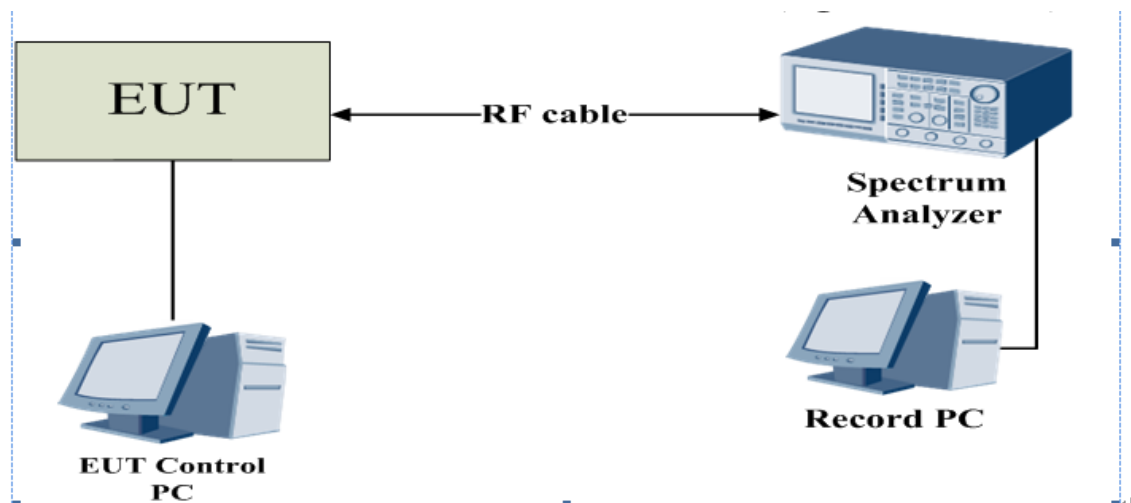
For 6 dB Bandwidth

Centre Frequency	The centre frequency of the channel under test
RBW	100 kHz
VBW	300 kHz

Frequency span	2 x Nominal Channel Bandwidth
Detector Mode	Peak
Trace Mode	Max Hold
Sweep Time	Auto Couple

- b) Wait for the trace to stabilize then find the peak value of the trace and place the analyser marker on this peak.
- c) Use the -26/-6dB bandwidth function of the spectrum analyser to measure the -26/-6dB Bandwidth of the EUT. This value shall be recorded.
- d) Make sure that the power envelope is sufficiently above the noise floor of the analyser to avoid the noise signals left and right from the power envelope being taken into account by this measurement.

3.3.4 Test Setup



3.3.5 Test Result

3.3.5.1 26 dB Bandwidth

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	27.680	5165.720	5193.400	---	---
		5220	26.840	5205.560	5232.400	---	---
		5240	27.720	5226.360	5254.080	---	---
		5260	28.840	5245.360	5274.200	---	---
		5300	28.800	5285.280	5314.080	---	---
		5320	29.760	5304.680	5334.440	---	---
11N20SISO	Ant1	5180	22.960	5168.680	5191.640	---	---
		5220	22.560	5208.440	5231.000	---	---
		5240	23.760	5228.800	5252.560	---	---
		5260	28.000	5246.600	5274.600	---	---
		5300	24.240	5287.480	5311.720	---	---
		5320	29.880	5304.680	5334.560	---	---
11N40SISO	Ant1	5190	49.520	5164.880	5214.400	---	---
		5230	52.560	5202.080	5254.640	---	---
		5270	41.840	5249.440	5291.280	---	---
		5310	42.720	5288.720	5331.440	---	---
11AC20SISO	Ant1	5180	29.120	5166.560	5195.680	---	---
		5220	30.320	5205.000	5235.320	---	---
		5240	28.120	5226.880	5255.000	---	---
		5260	30.560	5244.520	5275.080	---	---
		5300	33.080	5282.640	5315.720	---	---
		5320	33.000	5303.000	5336.000	---	---
11AC40SISO	Ant1	5190	53.680	5164.000	5217.680	---	---
		5230	57.280	5200.080	5257.360	---	---
		5270	42.480	5248.880	5291.360	---	---
		5310	43.360	5287.840	5331.200	---	---
11AC80SISO	Ant1	5210	105.280	5156.240	5261.520	---	---
		5290	90.080	5240.880	5330.960	---	---

11A_Ant1_5180



11A_Ant1_5220



11A_Ant1_5240



11A_Ant1_5260



11A_Ant1_5300



11A_Ant1_5320



11N20SISO_Ant1_5180



11N20SISO_Ant1_5220



11N20SISO_Ant1_5240



11N20SISO_Ant1_5260



11N20SISO_Ant1_5300



11N20SISO_Ant1_5320



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11N40SISO_Ant1_5270



11N40SISO_Ant1_5310



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5220



11AC20SISO_Ant1_5240



11AC20SISO_Ant1_5260



11AC20SISO_Ant1_5300



11AC20SISO_Ant1_5320



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC40SISO_Ant1_5270



11AC40SISO_Ant1_5310



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5290



3.3.5.2 6 dB Bandwidth

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.360	5736.800	5753.160	0.5	PASS
		5785	16.400	5776.760	5793.160	0.5	PASS
		5825	16.400	5816.800	5833.200	0.5	PASS
11N20SISO	Ant1	5745	17.600	5736.200	5753.800	0.5	PASS
		5785	17.640	5776.160	5793.800	0.5	PASS
		5825	17.640	5816.160	5833.800	0.5	PASS
11N40SISO	Ant1	5755	34.320	5738.440	5772.760	0.5	PASS
		5795	35.040	5777.480	5812.520	0.5	PASS
11AC20SISO	Ant1	5745	17.640	5736.160	5753.800	0.5	PASS
		5785	17.560	5776.200	5793.760	0.5	PASS
		5825	17.600	5816.160	5833.760	0.5	PASS
11AC40SISO	Ant1	5755	35.040	5737.480	5772.520	0.5	PASS
		5795	33.600	5777.400	5811.000	0.5	PASS
11AC80SISO	Ant1	5775	71.360	5741.240	5812.600	0.5	PASS

11A_Ant1_5745



11A_Ant1_5785



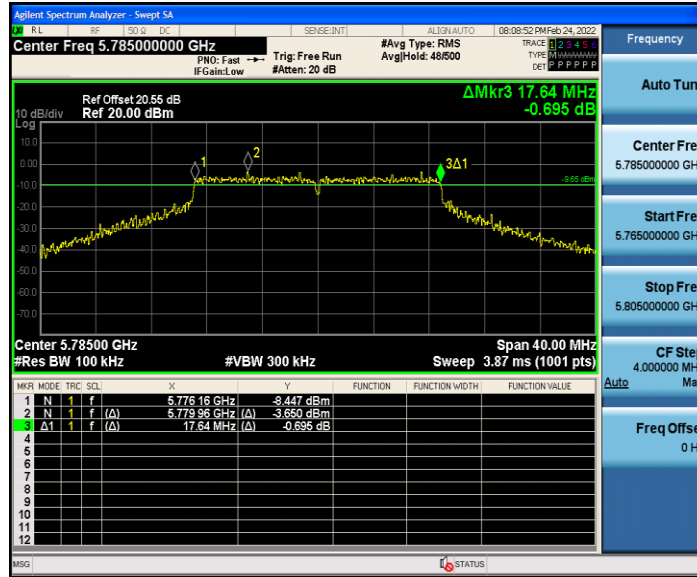
11A_Ant1_5825



11N20SISO_Ant1_5745



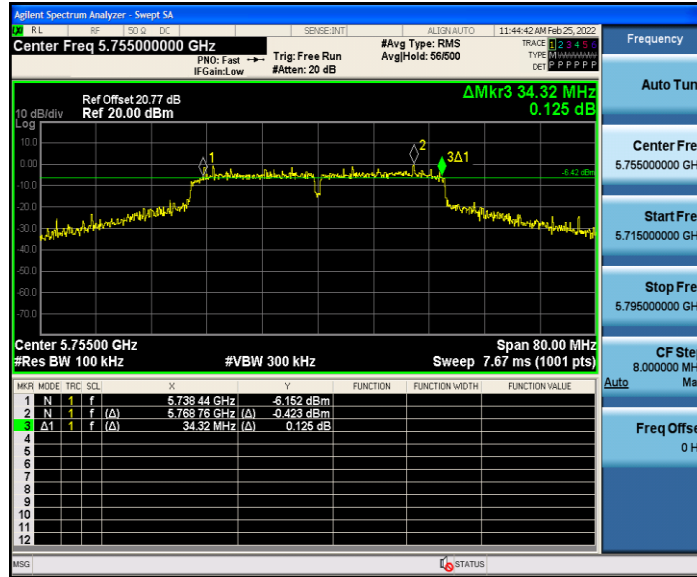
11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775

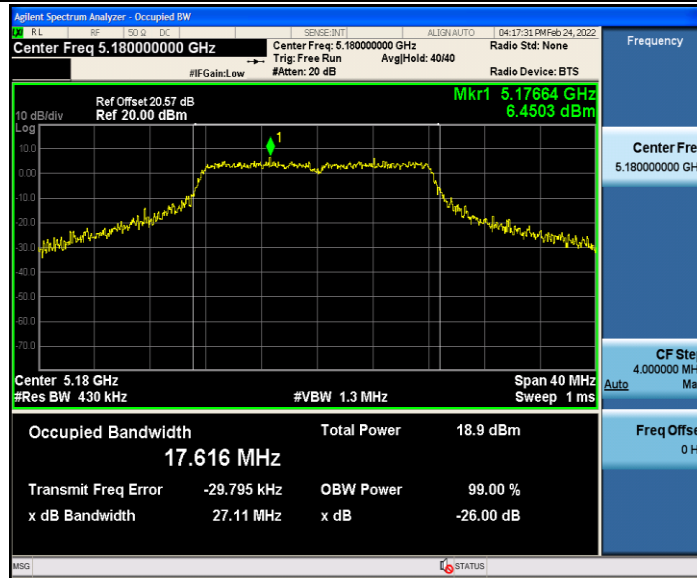


3.3.5.3 Occupied channel bandwidth

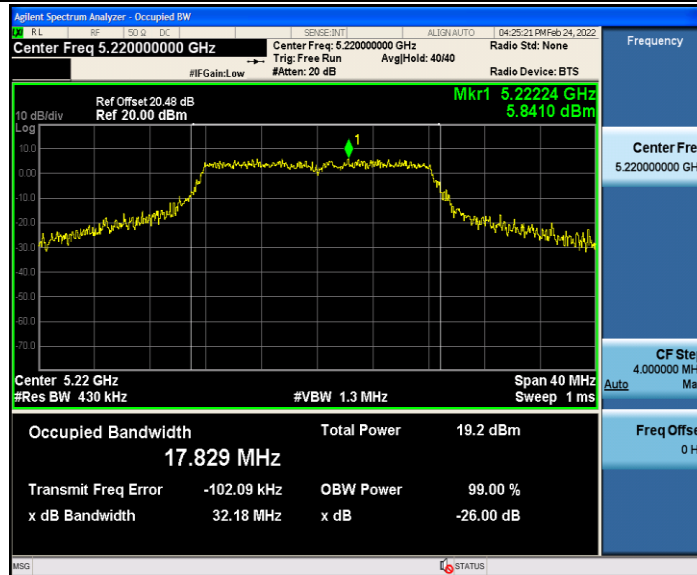
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.616	5171.162	5188.778	---	---
		5220	17.829	5210.983	5228.812	---	---
		5240	17.631	5231.206	5248.837	---	---
		5260	18.020	5250.924	5268.944	---	---
		5300	18.002	5290.802	5308.804	---	---
		5320	18.340	5310.685	5329.025	---	---
		5745	18.855	5735.431	5754.286	---	---
		5785	19.218	5775.068	5794.286	---	---
		5825	19.305	5815.201	5834.506	---	---
11N20SISO	Ant1	5180	18.385	5170.809	5189.194	---	---
		5220	18.255	5210.825	5229.080	---	---
		5240	18.299	5230.836	5249.135	---	---
		5260	18.448	5250.795	5269.243	---	---
		5300	18.539	5290.758	5309.297	---	---
		5320	18.672	5310.682	5329.354	---	---
		5745	19.413	5735.265	5754.678	---	---
		5785	19.325	5775.129	5794.454	---	---
		5825	19.109	5815.247	5834.356	---	---
11N40SISO	Ant1	5190	36.542	5171.687	5208.229	---	---
		5230	36.585	5211.698	5248.283	---	---
		5270	36.275	5251.851	5288.126	---	---
		5310	36.258	5291.842	5328.100	---	---
		5755	38.924	5736.016	5774.940	---	---
		5795	38.139	5775.662	5813.801	---	---
11AC20SISO	Ant1	5180	18.496	5170.705	5189.201	---	---
		5220	18.679	5210.567	5229.246	---	---
		5240	18.722	5230.633	5249.355	---	---
		5260	18.757	5250.664	5269.421	---	---
		5300	18.648	5290.657	5309.305	---	---
		5320	18.964	5310.423	5329.387	---	---
		5745	19.459	5735.223	5754.682	---	---
		5785	19.641	5774.913	5794.554	---	---
		5825	19.183	5815.260	5834.443	---	---
11AC40SISO	Ant1	5190	36.655	5171.583	5208.238	---	---
		5230	36.708	5211.645	5248.353	---	---
		5270	36.280	5251.801	5288.081	---	---
		5310	36.462	5291.757	5328.219	---	---
		5755	38.382	5736.193	5774.575	---	---
		5795	38.603	5775.439	5814.042	---	---

11AC80SISO	Ant1	5210	75.646	5172.190	5247.836	---	---
		5290	75.292	5252.305	5327.597	---	---
		5775	76.056	5737.143	5813.199	---	---

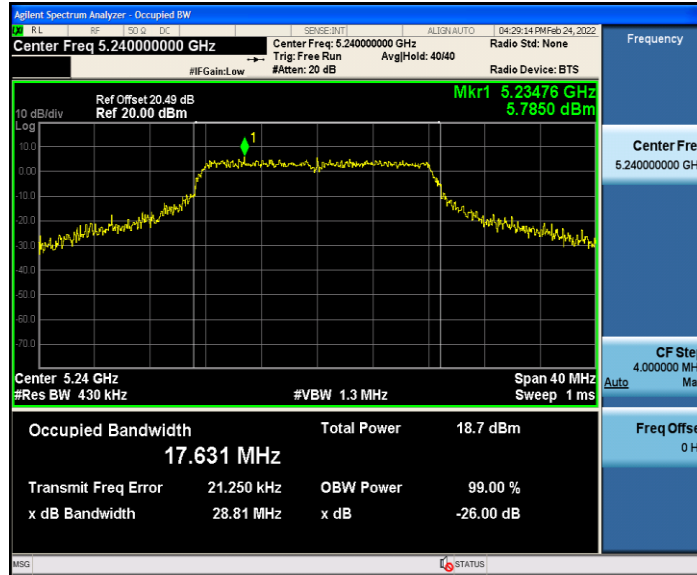
11A_Ant1_5180



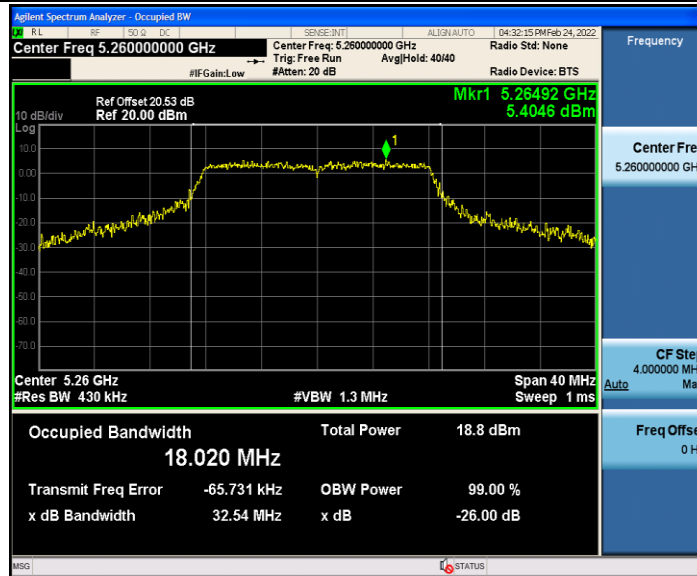
11A_Ant1_5220



11A_Ant1_5240



11A_Ant1_5260



11A_Ant1_5300