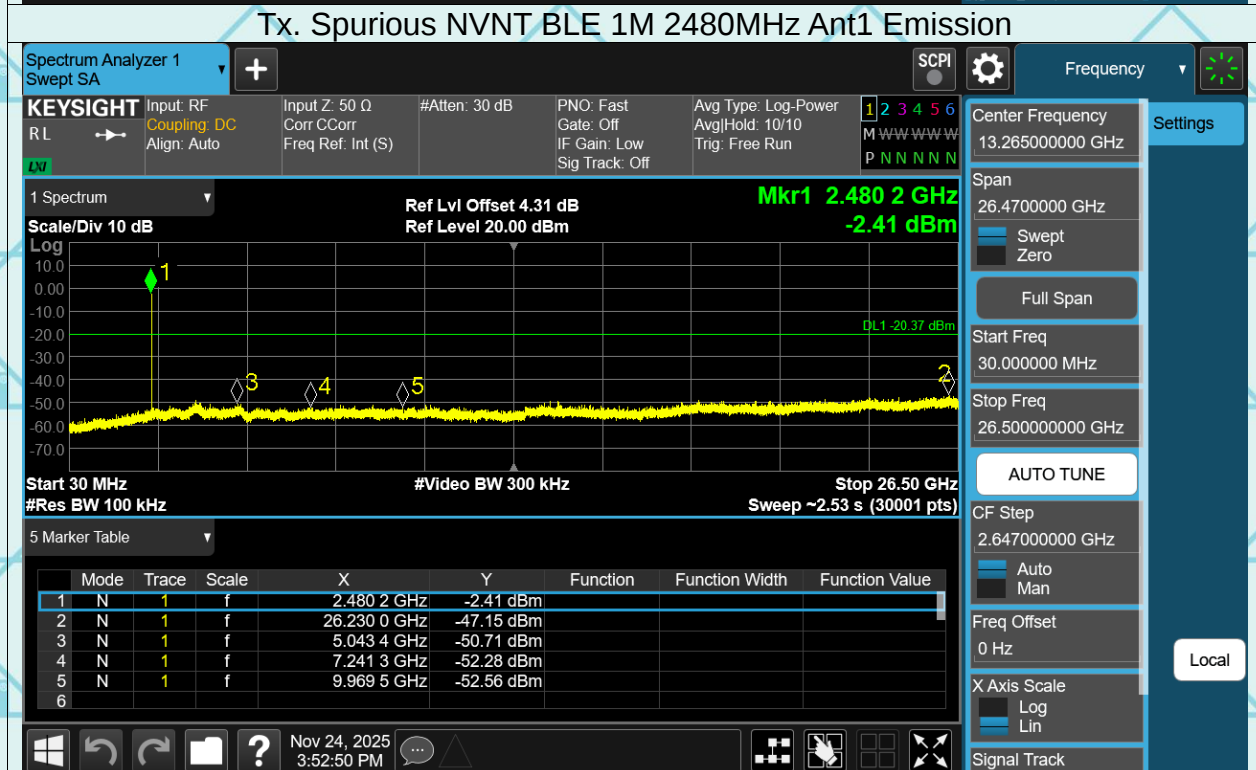
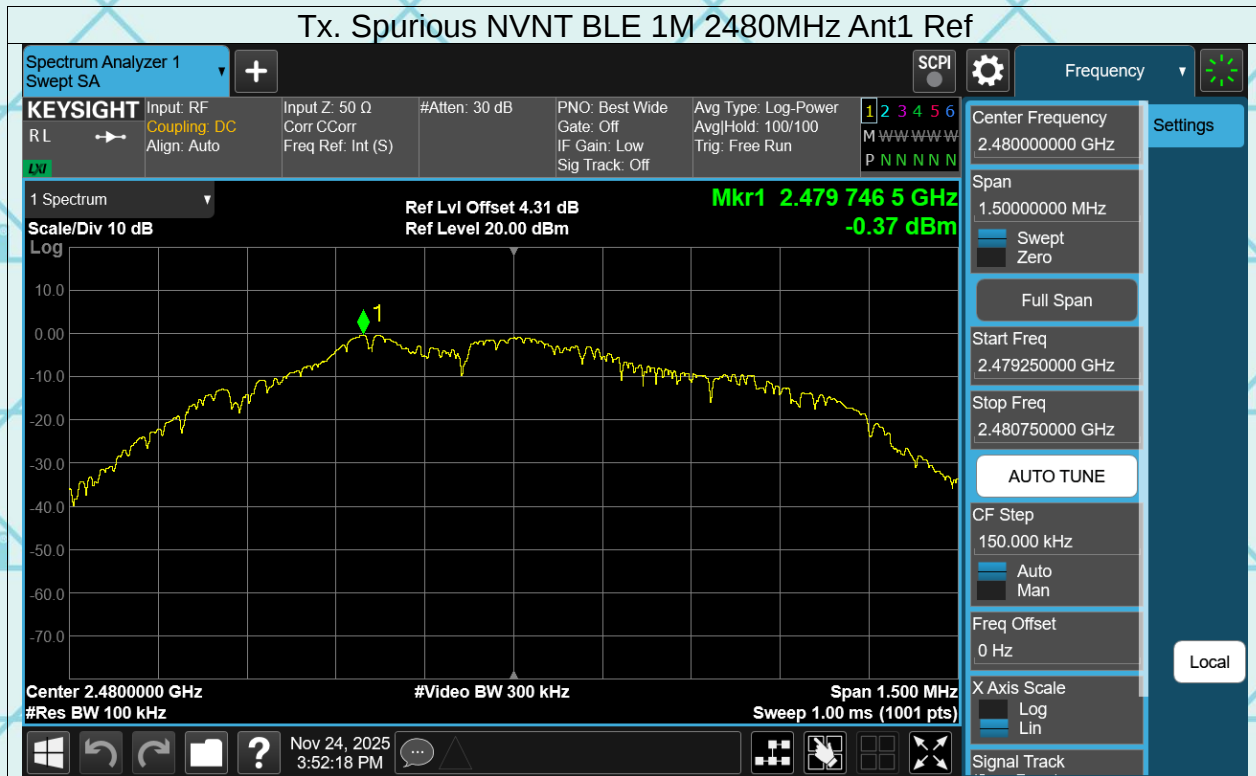
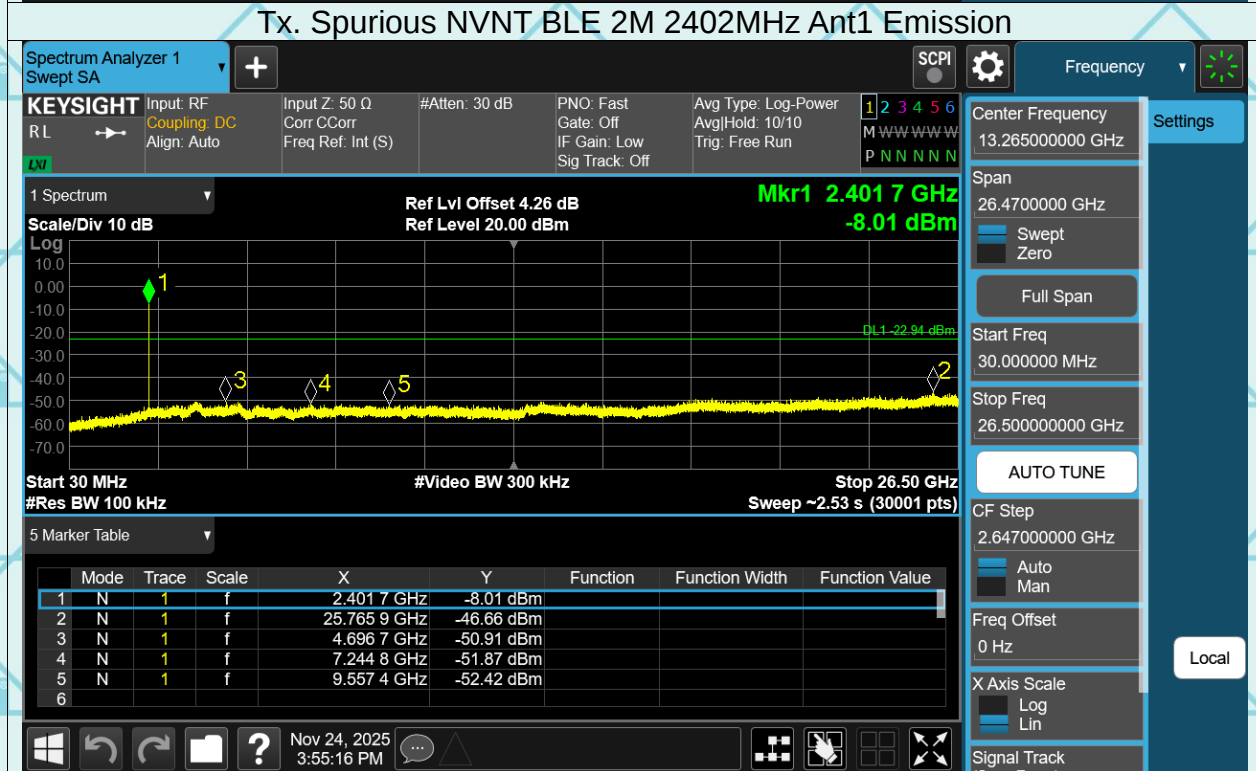
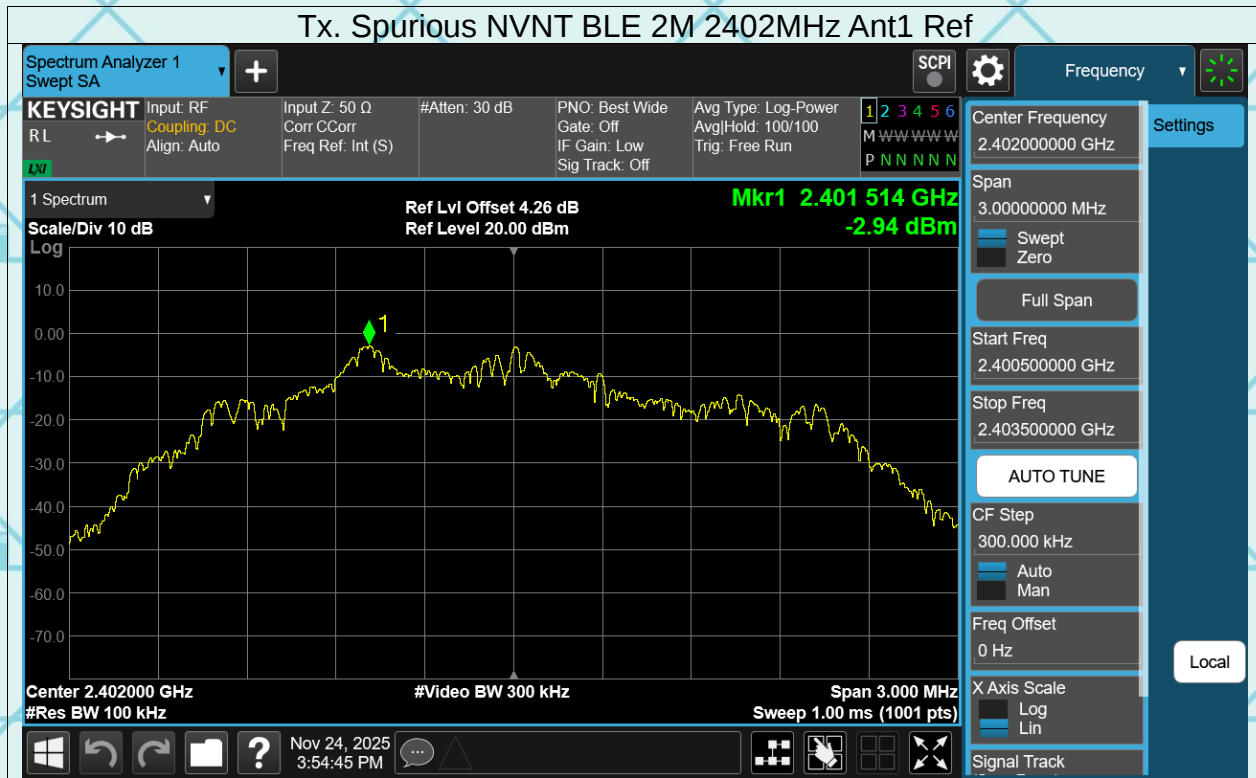
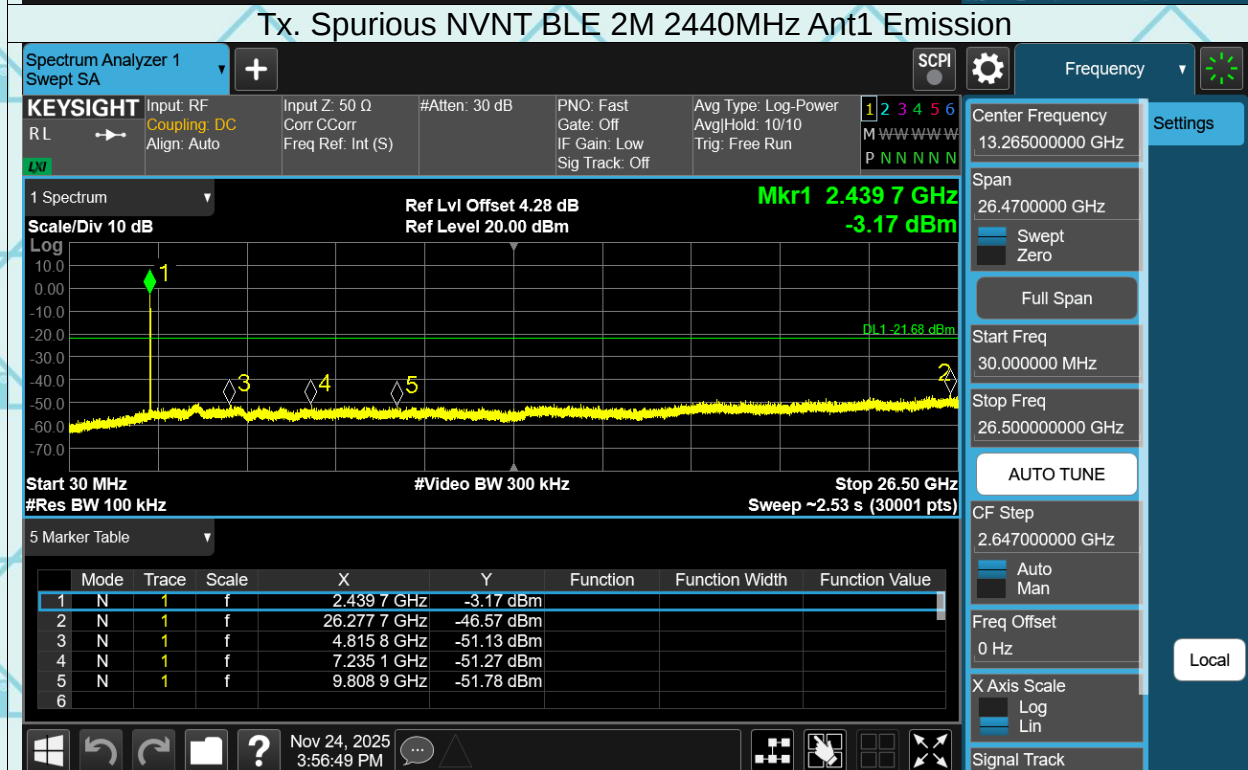
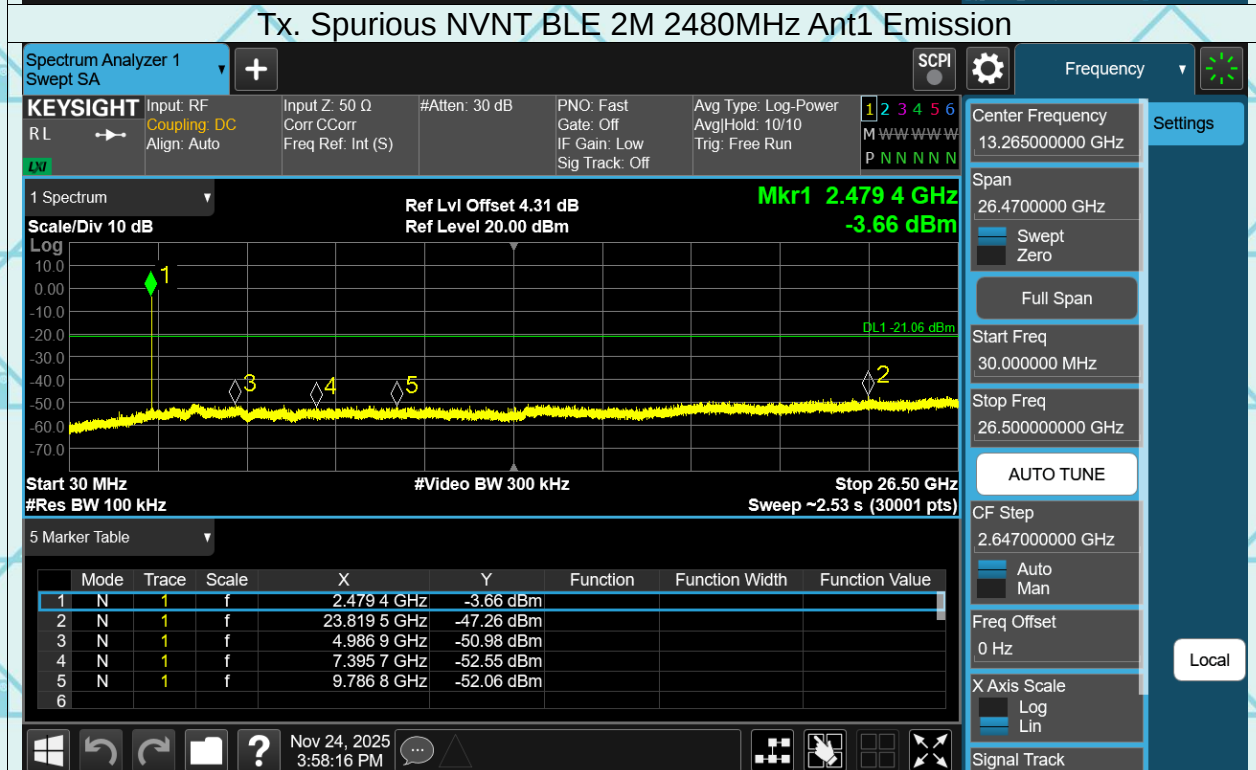
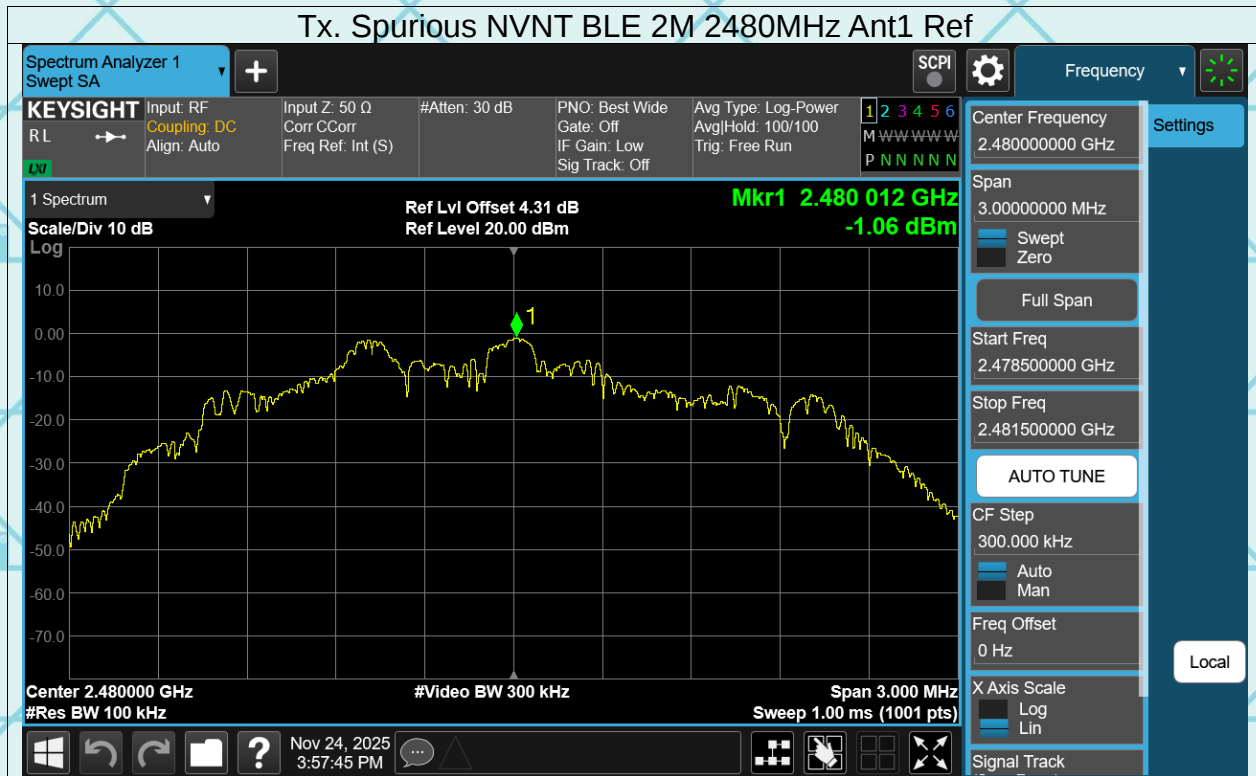




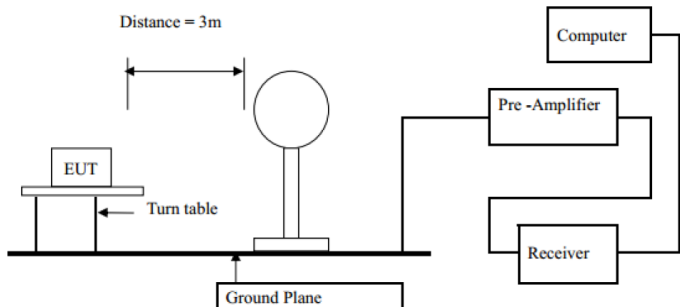


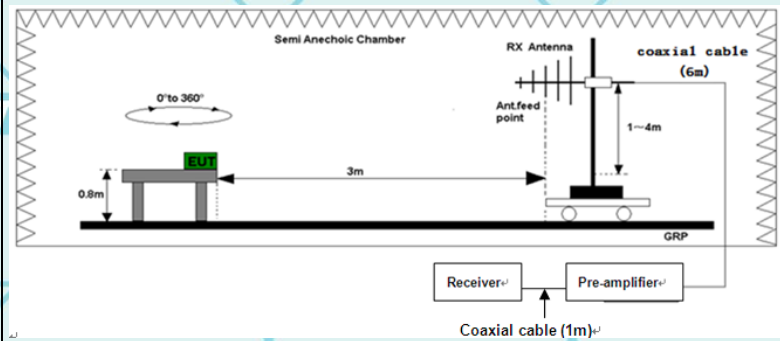




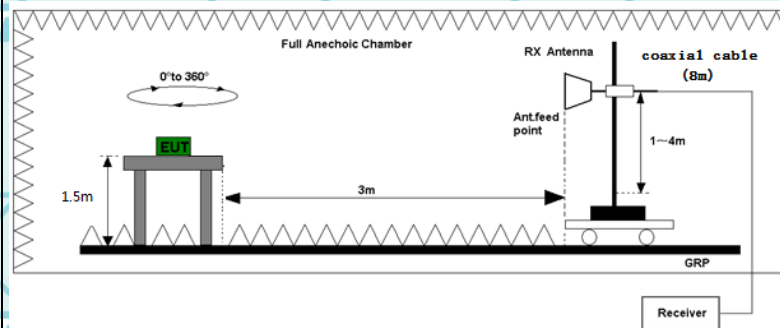
6.7. Radiated Spurious Emission Measurement

6.7.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209					
Test Method:	ANSI C63.10:2020					
Frequency Range:	9 kHz to 25 GHz					
Measurement Distance:	3 m					
Antenna Polarization:	Horizontal & Vertical					
Operation mode:	Refer to item 4.1					
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark	
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value	
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value	
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value	
	Above 1GHz	Peak	1MHz	3MHz	Peak Value	
		Peak	1MHz	10Hz	Average Value	
Limit:	Frequency		Field Strength (microvolts/meter)		Measurement Distance (meters)	
	0.009-0.490		2400/F(KHz)		300	
	0.490-1.705		24000/F(KHz)		30	
	1.705-30		30		30	
	30-88		100		3	
	88-216		150		3	
	216-960		200		3	
	Above 960		500		3	
	Frequency		Field Strength (microvolts/meter)		Measurement Distance (meters)	Detector
	Above 1GHz		500		3	Average
			5000		3	Peak
Test setup:	For radiated emissions below 30MHz					
						
	30MHz to 1GHz					



Above 1GHz



Test Procedure:

- For the radiated emission test below 1GHz:
The EUT was placed on a turntable with 0.1 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level.
For the radiated emission test above 1GHz:
Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- Corrected Reading: Antenna Factor + Cable Loss +

	Read Level - Preamp Factor = Level 3. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported. 4. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=100 kHz for $f < 1$ GHz; $VBW \geq RBW$; Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement: $VBW = 10$ Hz, when duty cycle is no less than 98 percent. $VBW \geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Test mode:	Refer to section 4.1 for details
Test results:	PASS

Note 1: The symbol of "--" in the table which means not application.

Note 2: For the test data above 1 GHz, According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 3: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

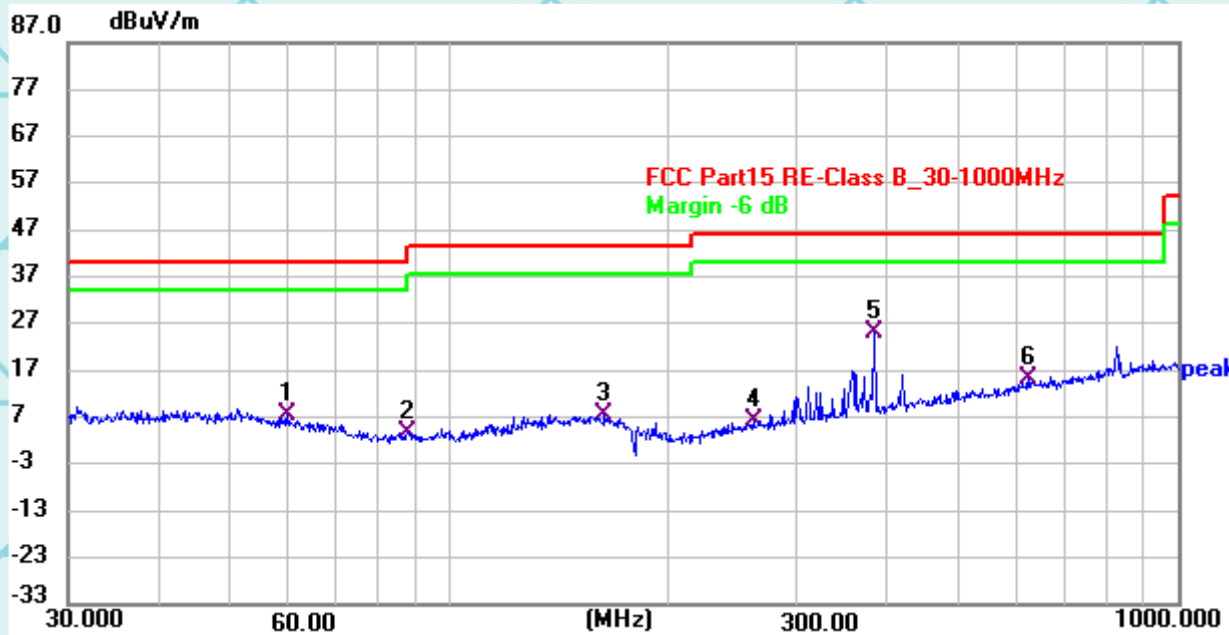
Note 4: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

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6.7.2. Test Data

Please refer to following diagram for individual
Below 1GHz

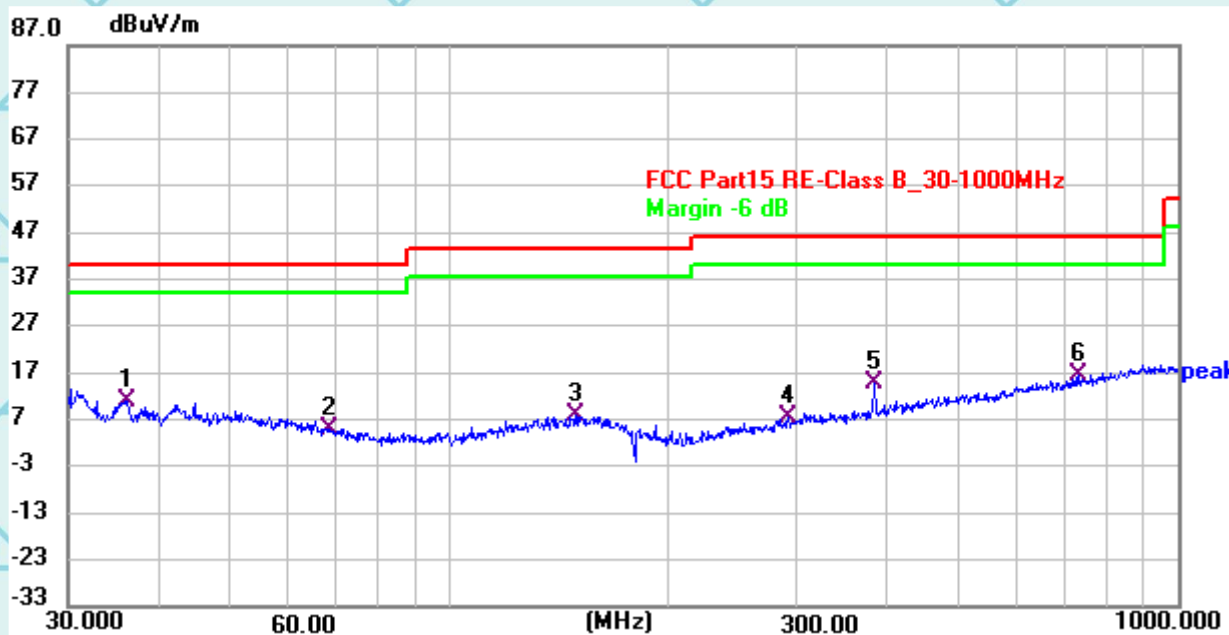
Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	60.1218	27.82	-20.36	7.46	40.00	-32.54	QP
2	87.9557	27.85	-24.03	3.82	40.00	-36.18	QP
3	163.4681	27.59	-19.97	7.62	43.50	-35.88	QP
4	262.5501	27.60	-21.55	6.05	46.00	-39.95	QP
5 *	384.1001	43.52	-18.24	25.28	46.00	-20.72	QP
6	623.7096	28.43	-13.20	15.23	46.00	-30.77	QP

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Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	36.3336	30.29	-19.44	10.85	40.00	-29.15	QP
2	68.6912	27.02	-22.05	4.97	40.00	-35.03	QP
3	148.9625	27.39	-19.42	7.97	43.50	-35.53	QP
4	293.0842	28.02	-20.52	7.50	46.00	-38.50	QP
5	384.1001	33.02	-18.24	14.78	46.00	-31.22	QP
6	732.2412	28.06	-11.77	16.29	46.00	-29.71	QP

Note1:

Freq. = Emission frequency in MHz

Reading level (dBuV) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor.

Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

Margin (dB) = Measurement (dBuV) – Limits (dBuV)

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Above 1GHz

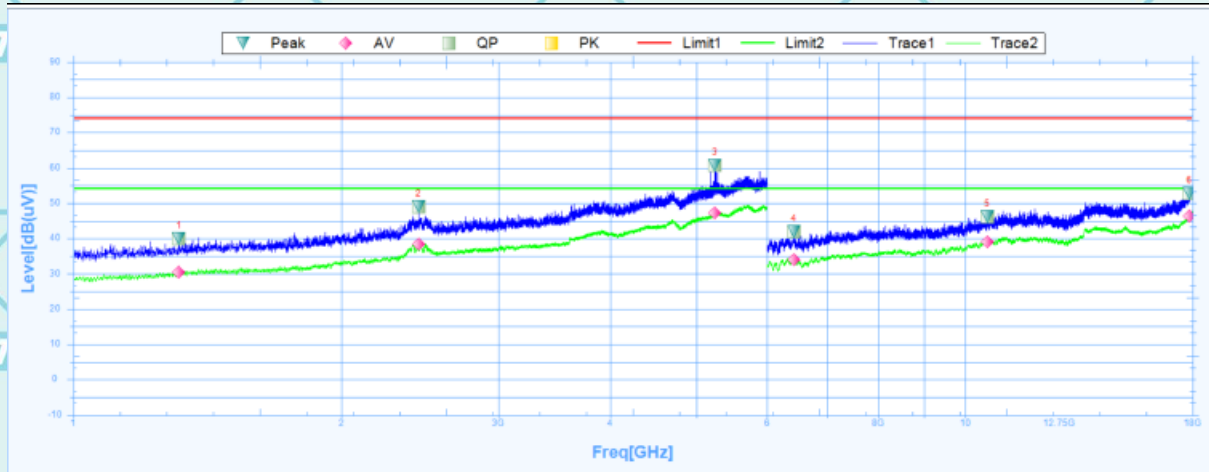
Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note 2: The spurious above 18G is noise only, do not show on the report.

Note 3 BLE 1M and 2M both tested the report and only recorded the worst-case scenario 1M:

Low channel: 2402MHz

Horizontal:

**Susputed Data List**

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1314.3750	39.93	24.8	15.13	74	-34.07	0	Horizontal	PK	Pass
1	1314.3750	30.47	24.8	5.67	54	-23.53	0	Horizontal	AV	Pass
2	2439.3750	48.95	27.39	21.56	74	-25.05	0	Horizontal	PK	Pass
2	2439.3750	38.5	27.39	11.11	54	-15.5	0	Horizontal	AV	Pass
3	5245.0000	60.78	31.8	28.98	74	-13.22	186.2	Horizontal	PK	Pass
3	5245.0000	47.13	31.8	15.33	54	-6.87	186.2	Horizontal	AV	Pass
4	6430.5000	41.96	4.6	37.36	74	-32.04	10.6	Horizontal	PK	Pass
4	6430.5000	33.89	4.6	29.29	54	-20.11	10.6	Horizontal	AV	Pass
5	10590.0000	46.06	14.28	31.78	74	-27.94	358.6	Horizontal	PK	Pass
5	10590.0000	39.1	14.28	24.82	54	-14.9	358.6	Horizontal	AV	Pass
6	17848.5000	52.74	22.93	29.81	74	-21.26	240.8	Horizontal	PK	Pass
6	17848.5000	46.35	22.93	23.42	54	-7.65	240.8	Horizontal	AV	Pass

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Vertical:



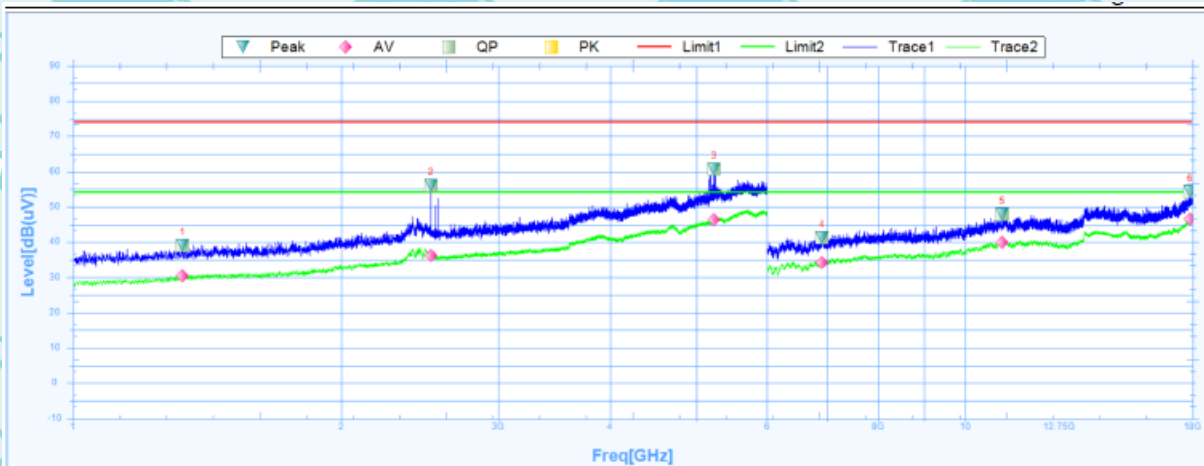
Suspected Data List

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1176.2500	38.96	24.39	14.57	74	-35.04	0	Vertical	PK	Pass
1	1176.2500	28.94	24.39	4.55	54	-25.06	0	Vertical	AV	Pass
2	2455.6250	46.49	27.45	19.04	74	-27.51	35.6	Vertical	PK	Pass
2	2455.6250	37.79	27.45	10.34	54	-16.21	35.6	Vertical	AV	Pass
3	5177.5000	61.11	31.74	29.37	74	-12.89	157.5	Vertical	PK	Pass
3	5177.5000	45.95	31.74	14.21	54	-8.05	157.5	Vertical	AV	Pass
4	6795.0000	41.27	5.6	35.67	74	-32.73	218.1	Vertical	PK	Pass
4	6795.0000	33.98	5.6	28.38	54	-20.02	218.1	Vertical	AV	Pass
5	11127.0000	47.54	15.84	31.7	74	-26.46	126.1	Vertical	PK	Pass
5	11127.0000	40.01	15.84	24.17	54	-13.99	126.1	Vertical	AV	Pass
6	17950.5000	53.72	23.58	30.14	74	-20.28	251.6	Vertical	PK	Pass
6	17950.5000	46.76	23.58	23.18	54	-7.24	251.6	Vertical	AV	Pass

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Middle channel: 2440MHz

Horizontal:

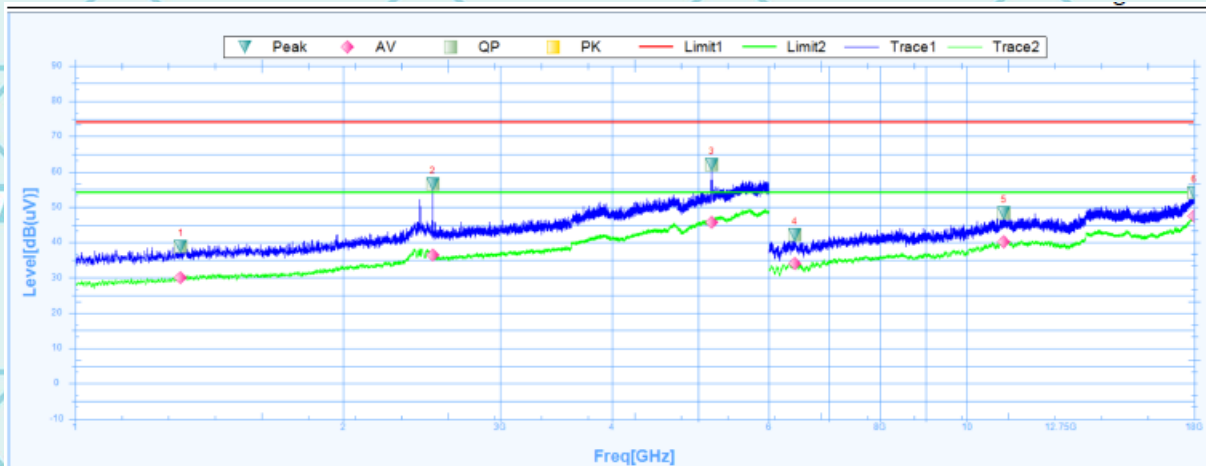


Suspected Data List

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1326.8750	39.14	24.84	14.3	74	-34.86	182.6	Horizontal	PK	Pass
1	1326.8750	30.37	24.84	5.53	54	-23.63	182.6	Horizontal	AV	Pass
2	2520.6250	56.14	27.62	28.52	74	-17.86	-0.1	Horizontal	PK	Pass
2	2520.6250	36.28	27.62	8.66	54	-17.72	-0.1	Horizontal	AV	Pass
3	5234.3750	60.66	31.79	28.87	74	-13.34	112	Horizontal	PK	Pass
3	5234.3750	46.3	31.79	14.51	54	-7.7	112	Horizontal	AV	Pass
4	6916.5000	41.24	6.08	35.16	74	-32.76	1.1	Horizontal	PK	Pass
4	6916.5000	34.27	6.08	28.19	54	-19.73	1.1	Horizontal	AV	Pass
5	11014.5000	47.84	15.67	32.17	74	-26.16	146.4	Horizontal	PK	Pass
5	11014.5000	40.02	15.67	24.35	54	-13.98	146.4	Horizontal	AV	Pass
6	17875.5000	54.21	23.11	31.1	74	-19.79	1.4	Horizontal	PK	Pass
6	17875.5000	46.62	23.11	23.51	54	-7.38	1.4	Horizontal	AV	Pass

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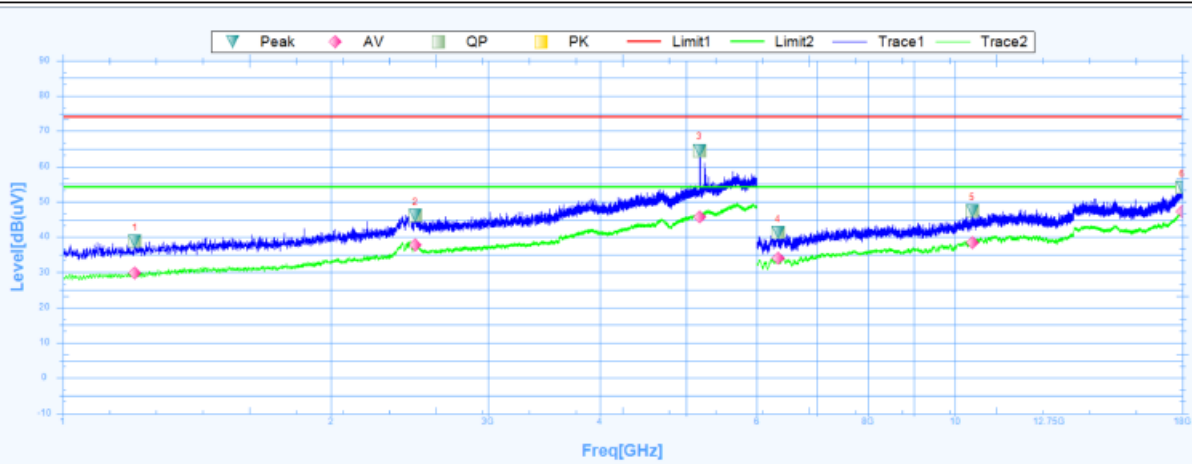
Vertical:



Suspected Data List

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1314.3750	38.83	24.8	14.03	74	-35.17	358.4	Vertical	PK	Pass
1	1314.3750	29.9	24.8	5.1	54	-24.1	358.4	Vertical	AV	Pass
2	2518.7500	56.5	27.62	28.88	74	-17.5	296.2	Vertical	PK	Pass
2	2518.7500	36.3	27.62	8.68	54	-17.7	296.2	Vertical	AV	Pass
3	5180.0000	62.04	31.74	30.3	74	-11.96	-0.1	Vertical	PK	Pass
3	5180.0000	45.59	31.74	13.85	54	-8.41	-0.1	Vertical	AV	Pass
4	6417.0000	42.09	4.59	37.5	74	-31.91	224	Vertical	PK	Pass
4	6417.0000	33.95	4.59	29.36	54	-20.05	224	Vertical	AV	Pass
5	11008.5000	48.31	15.64	32.67	74	-25.69	188.2	Vertical	PK	Pass
5	11008.5000	40.16	15.64	24.52	54	-13.84	188.2	Vertical	AV	Pass
6	17997.0000	54.06	23.91	30.15	74	-19.94	115.3	Vertical	PK	Pass
6	17997.0000	47.54	23.91	23.63	54	-6.46	115.3	Vertical	AV	Pass

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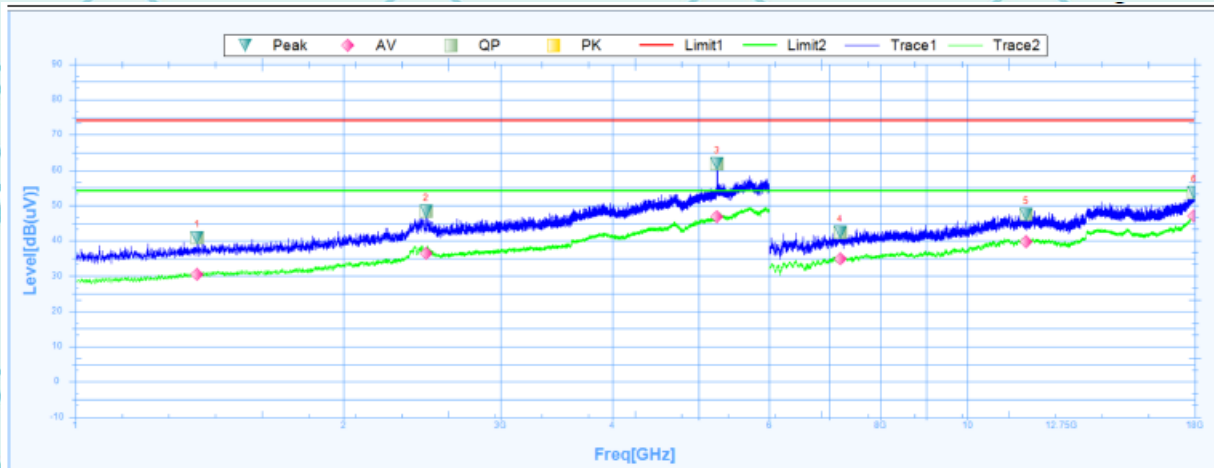
High channel: 2480MHz
Horizontal:

Suspected Data List

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1205.6250	38.88	24.42	14.46	74	-35.12	0	Horizontal	PK	Pass
1	1205.6250	29.84	24.42	5.42	54	-24.16	0	Horizontal	AV	Pass
2	2486.8750	46.18	27.56	18.62	74	-27.82	187.4	Horizontal	PK	Pass
2	2486.8750	37.82	27.56	10.26	54	-16.18	187.4	Horizontal	AV	Pass
3	5175.6250	64.55	31.74	32.81	74	-9.45	107.4	Horizontal	PK	Pass
3	5175.6250	45.61	31.74	13.87	54	-8.39	107.4	Horizontal	AV	Pass
4	6336.0000	41.27	4.42	36.85	74	-32.73	360	Horizontal	PK	Pass
4	6336.0000	33.94	4.42	29.52	54	-20.06	360	Horizontal	AV	Pass
5	10459.5000	47.5	13.78	33.72	74	-26.5	253.9	Horizontal	PK	Pass
5	10459.5000	38.35	13.78	24.57	54	-15.65	253.9	Horizontal	AV	Pass
6	17989.5000	53.97	23.86	30.11	74	-20.03	133.1	Horizontal	PK	Pass
6	17989.5000	47.27	23.86	23.41	54	-6.73	133.1	Horizontal	AV	Pass

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Vertical:



Suspected Data List

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1370.0000	40.85	25	15.85	74	-33.15	286.6	Vertical	PK	Pass
1	1370.0000	30.42	25	5.42	54	-23.58	286.6	Vertical	AV	Pass
2	2474.3750	48.38	27.51	20.87	74	-25.62	-0.1	Vertical	PK	Pass
2	2474.3750	36.45	27.51	8.94	54	-17.55	-0.1	Vertical	AV	Pass
3	5245.0000	61.72	31.8	29.92	74	-12.28	139.5	Vertical	PK	Pass
3	5245.0000	46.83	31.8	15.03	54	-7.17	139.5	Vertical	AV	Pass
4	7201.5000	42.31	7	35.31	74	-31.69	228.9	Vertical	PK	Pass
4	7201.5000	34.89	7	27.89	54	-19.11	228.9	Vertical	AV	Pass
5	11643.0000	47.45	16.16	31.29	74	-26.55	348.2	Vertical	PK	Pass
5	11643.0000	39.76	16.16	23.6	54	-14.24	348.2	Vertical	AV	Pass
6	17968.5000	53.71	23.71	30	74	-20.29	12.1	Vertical	PK	Pass
6	17968.5000	46.97	23.71	23.26	54	-7.03	12.1	Vertical	AV	Pass

Note:

1. All emissions not reported were more than 20dB below the specified limit or in the noise floor.
2. Emission Level= Reading Level + Probe Factor + Cable Loss.
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.
4. EUT has been tested in unfolded states, and the report only reflects data in the unfolded state (worst-case scenario)

Note: Freq. = Emission frequency in MHz

Reading level (dBμV) = Receiver reading

Corr. Factor (dB) = Attenuation factor + Cable loss

Level (dBμV) = Reading level (dBμV) + Corr. Factor (dB)

Limit (dBμV) = Limit stated in standard

Margin (dB) = Level (dBμV) – Limits (dBμV)

6.7.3. Restricted Bands Requirements

Test result for GFSK Mode (the worst case)

Frequency	Reading	Correct Factor	Emission Level	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel							
2390	61.48	-8.76	52.72	74	21.28	H	PK
2390	56.31	-8.76	47.55	54	6.45	H	AV
2390	62.80	-8.73	54.07	74	19.93	V	PK
2390	57.05	-8.73	48.32	54	5.68	V	AV
High Channel							
2483.5	63.80	-8.17	55.63	74	18.37	H	PK
2483.5	54.52	-8.17	46.35	54	7.65	H	AV
2483.5	63.80	-8.17	55.63	74	18.37	V	PK
2483.5	54.67	-8.17	46.50	54	7.50	V	AV

Note: Freq. = Emission frequency in MHz

Reading level (dBuV) = Receiver reading

Corr. Factor (dB) = Attenuation factor + Cable loss

Level (dBuV) = Reading level (dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

Margin (dB) = Level (dBuV) - Limits (dBuV)

7. Test Setup Photographs

Please refer to Annex "Set Up Photos-15C" for test setup photos

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