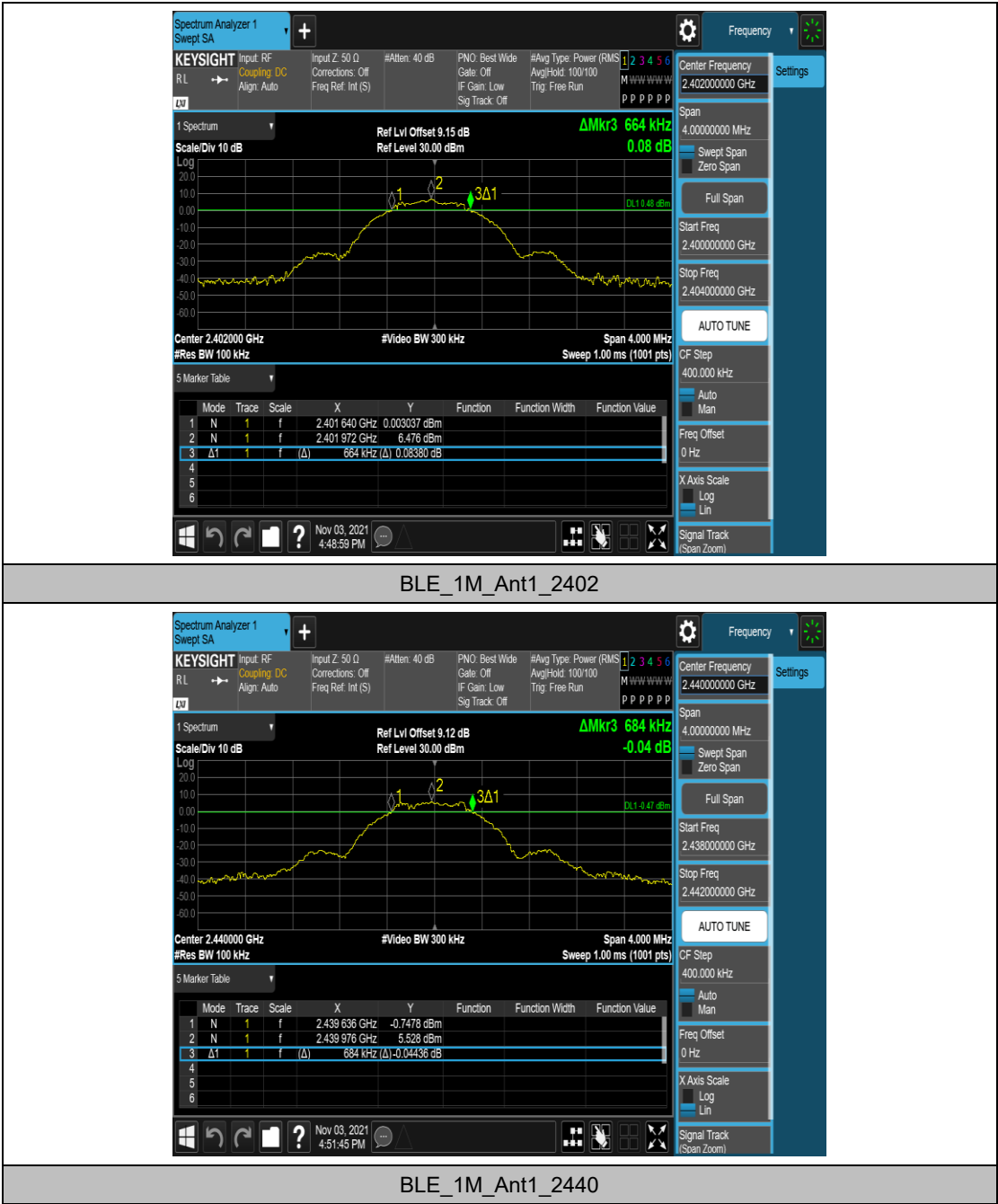


Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.664	2401.640	2402.304	0.5	PASS
		2440	0.684	2439.636	2440.320	0.5	PASS
		2480	0.664	2479.648	2480.312	0.5	PASS

Test Graphs





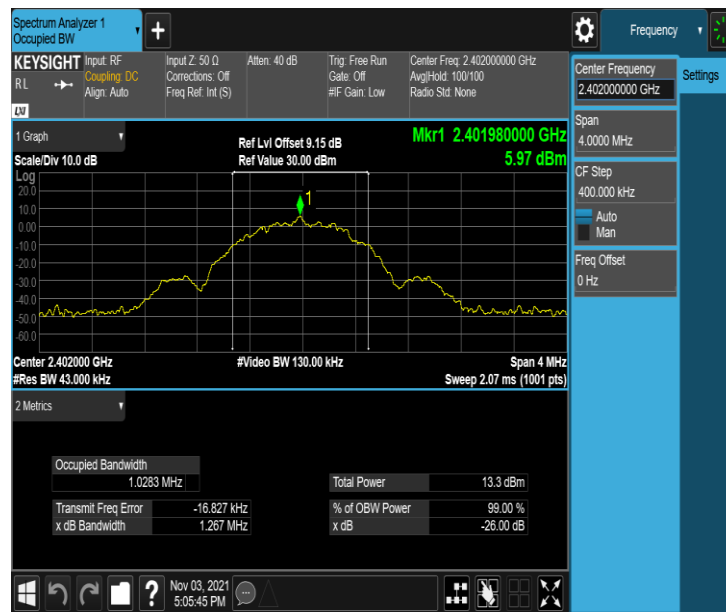
BLE_1M_Ant1_2480

Appendix B: Occupied Channel Bandwidth

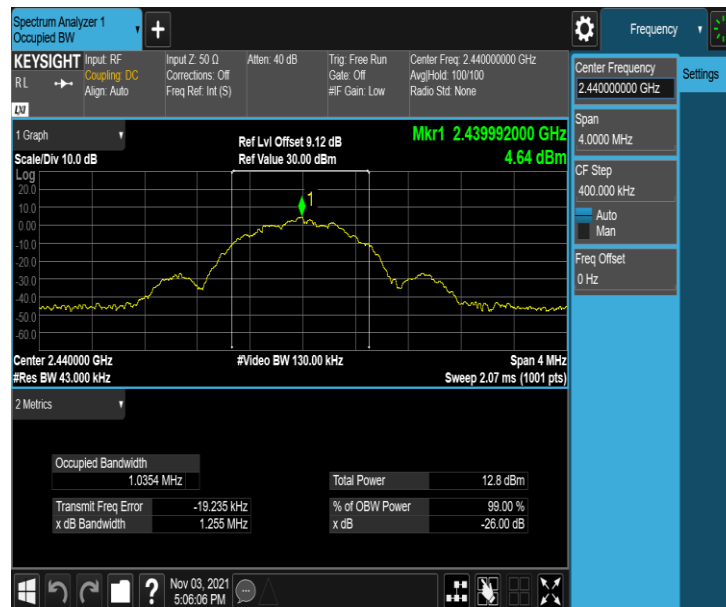
Test Result

TestMode	Antenna	Channel	OCB [MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0283	---	PASS
		2440	1.0354	---	PASS
		2480	1.0303	---	PASS

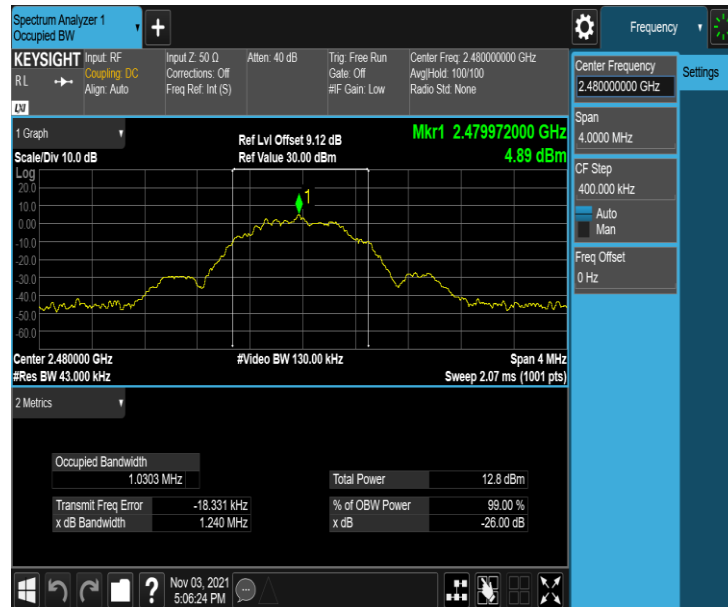
Test Graphs



BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	7.84	≤30	PASS
		2440	7.37	≤30	PASS
		2480	7.53	≤30	PASS

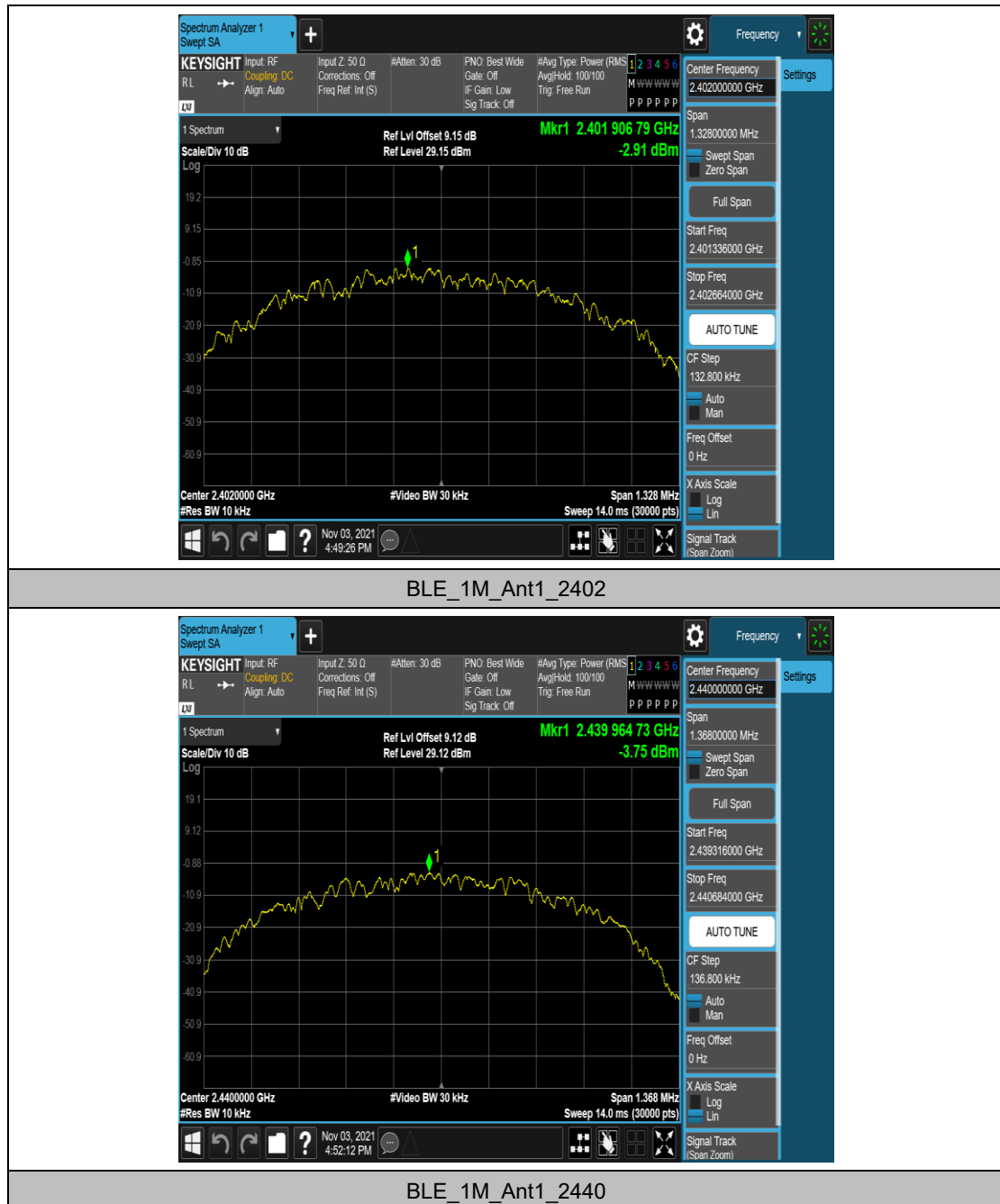
TestMode	Antenna	Channel	E.I.R.P Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	10.34	≤36	PASS
		2440	9.87	≤36	PASS
		2480	10.03	≤36	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-2.91	≤8	PASS
		2440	-3.75	≤8	PASS
		2480	-3.08	≤8	PASS

Test Graphs





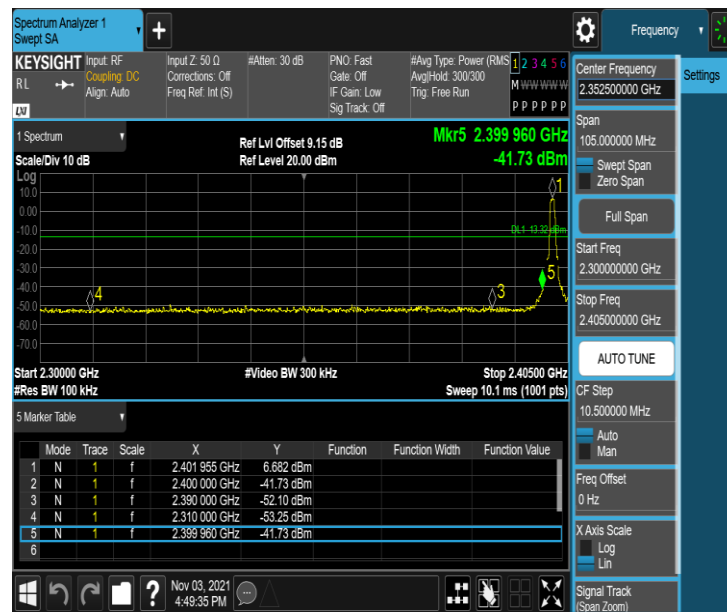
BLE_1M_Ant1_2480

Appendix E: Band edge measurements

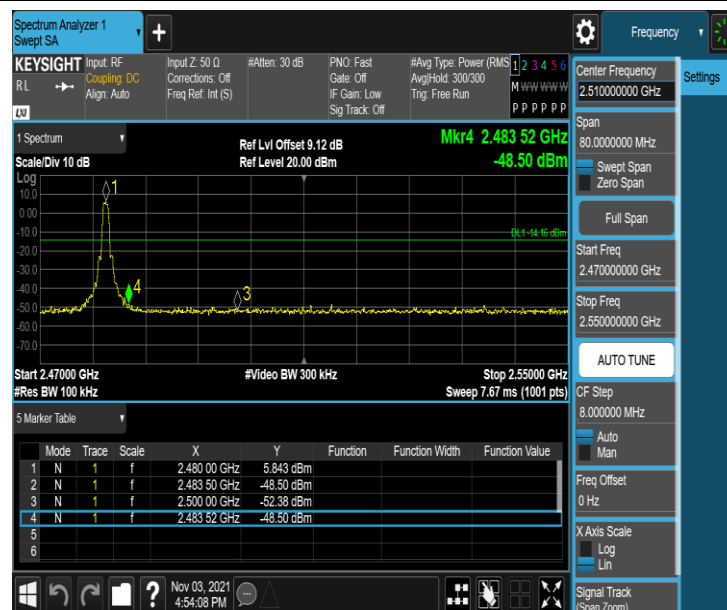
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	6.68	-41.73	≤-13.32	PASS
		High	2480	5.84	-48.5	≤-14.16	PASS

Test Graphs



BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480

Appendix F: Conducted Spurious Emission

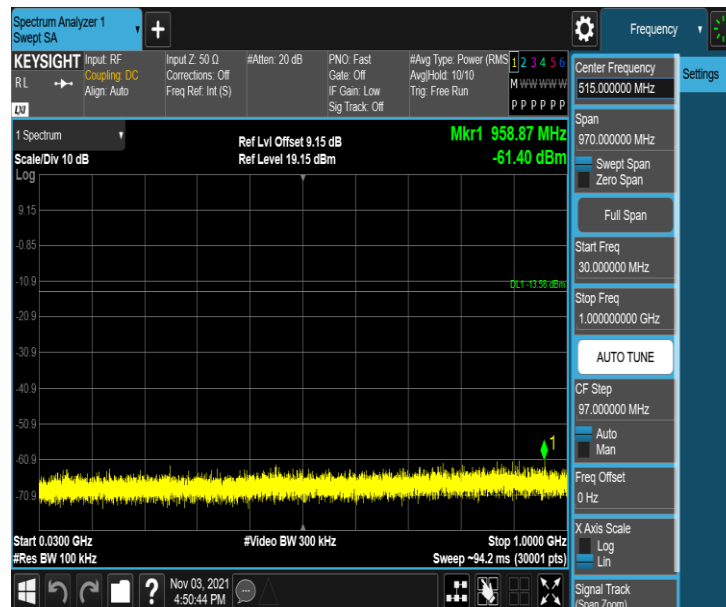
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	6.42	6.42	---	PASS
			30~1000	6.42	-61.4	≤-13.58	PASS
			1000~26500	6.42	-52.43	≤-13.58	PASS
		2440	Reference	5.62	5.62	---	PASS
			30~1000	5.62	-62.04	≤-14.39	PASS
			1000~26500	5.62	-53.57	≤-14.39	PASS
		2480	Reference	5.76	5.76	---	PASS
			30~1000	5.76	-61.8	≤-14.24	PASS
			1000~26500	5.76	-53.08	≤-14.24	PASS

Test Graphs



BLE_1M_Ant1_2402_0~Reference



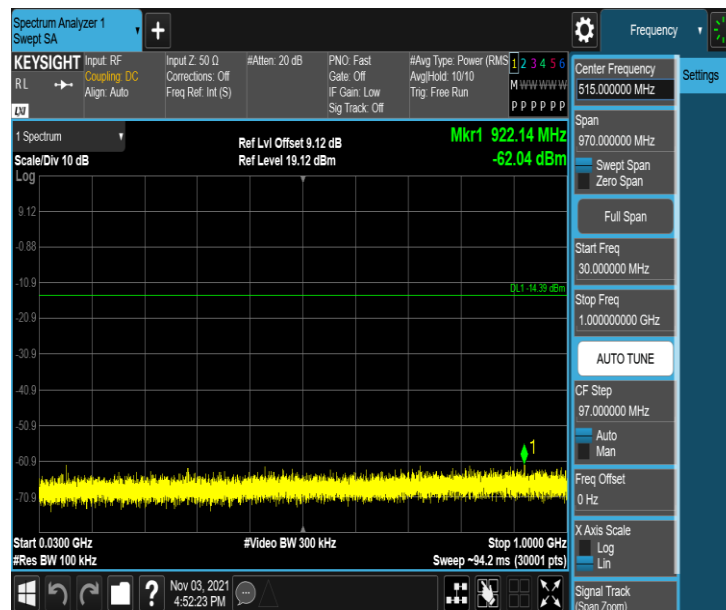
BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference



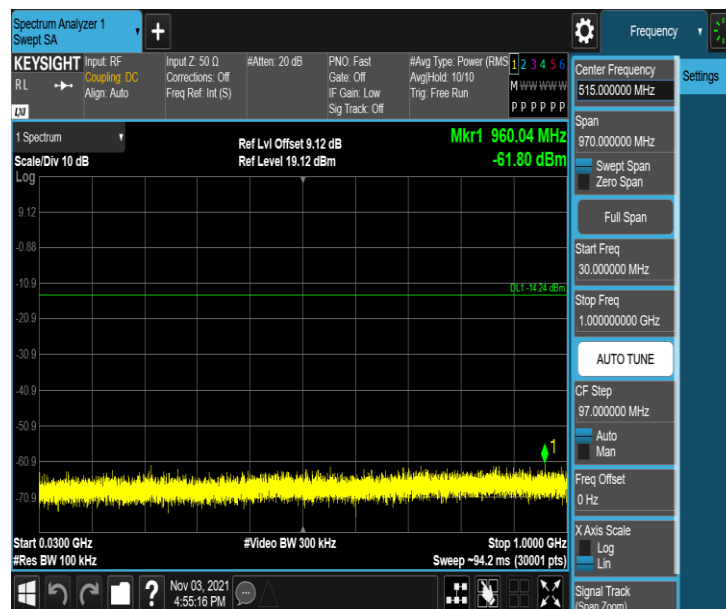
BLE_1M_Ant1_2440_30~1000



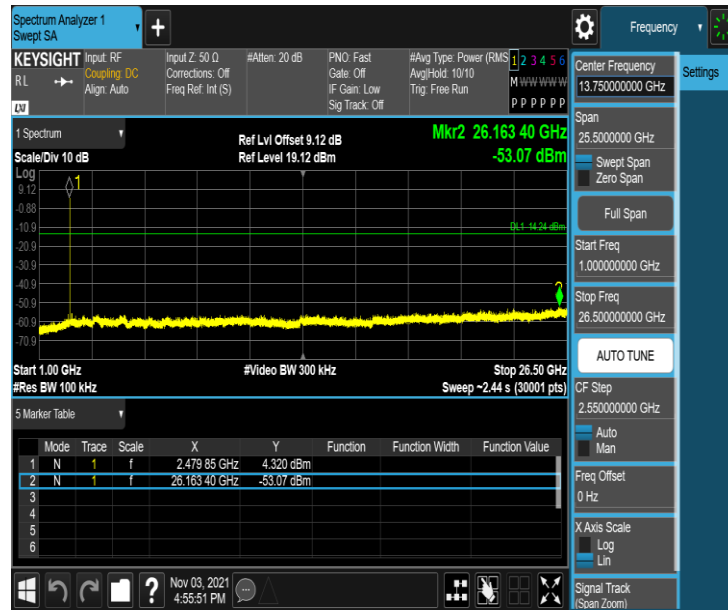
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



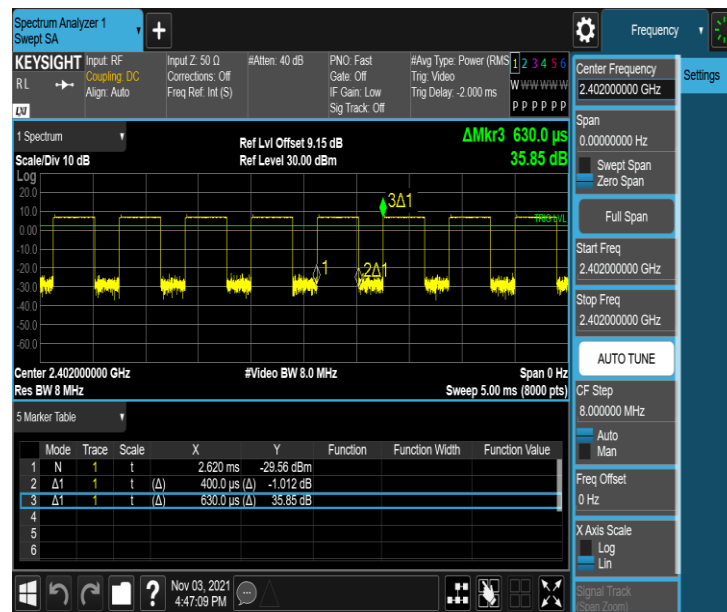
BLE_1M_Ant1_2480_1000~26500

Appendix G: Duty Cycle

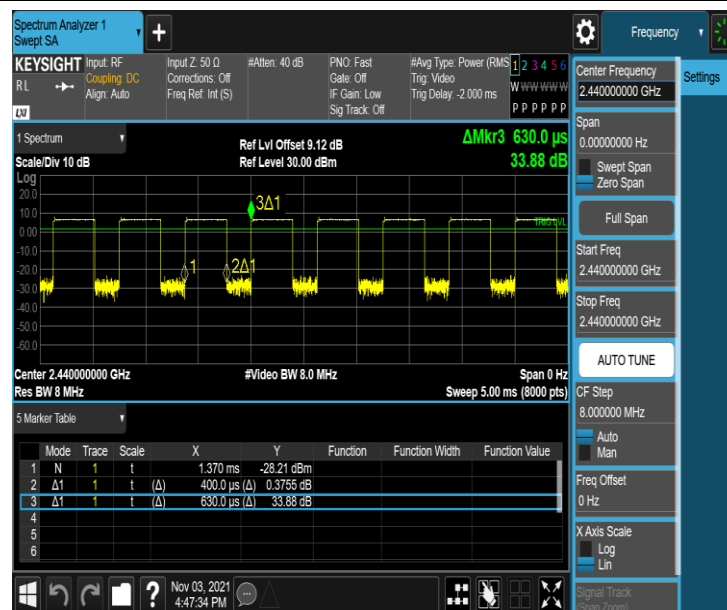
Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.40	0.63	0.6349	63.49	1.97	---	PASS
		2440	0.40	0.63	0.6349	63.49	1.97	---	PASS
		2480	0.40	0.63	0.6349	63.49	1.97	---	PASS

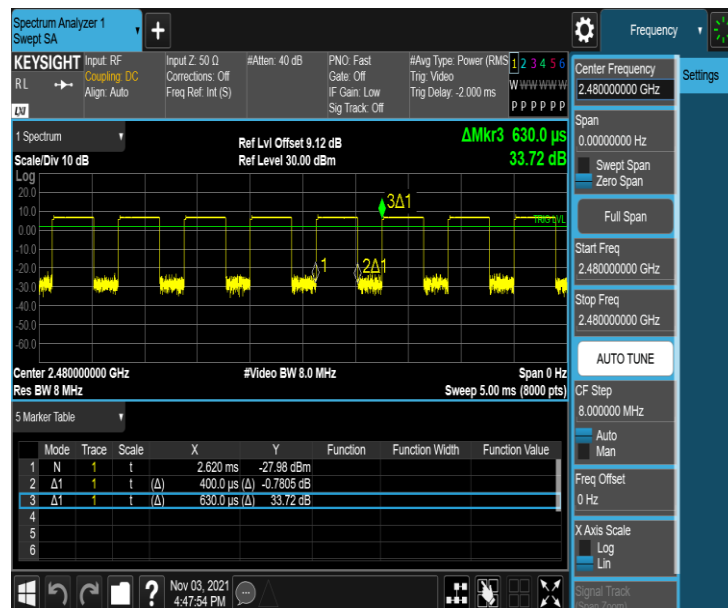
Test Graphs



BLE_1M_Ant1_2402



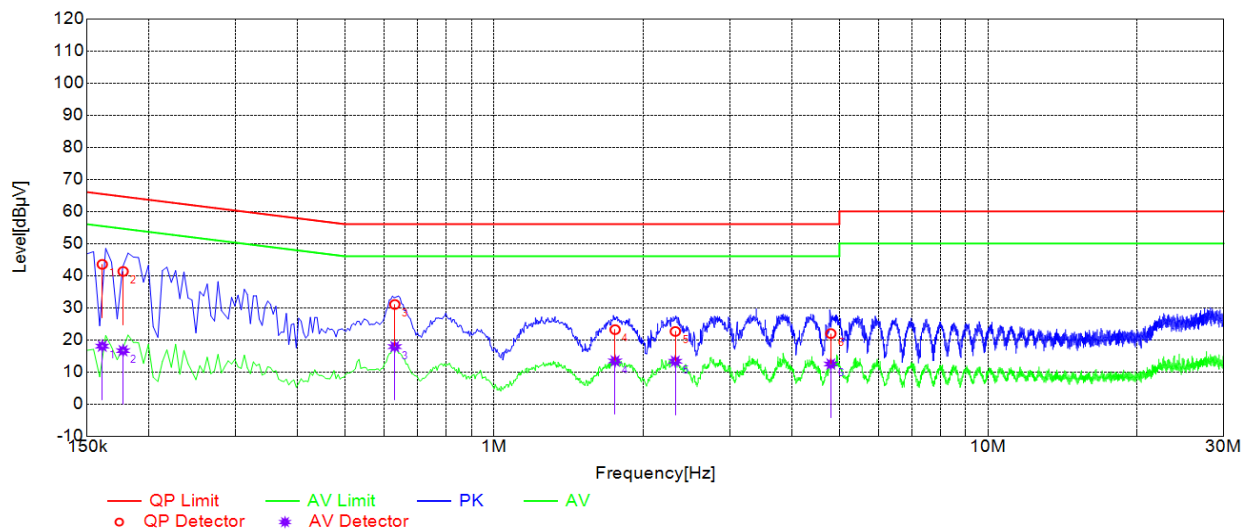
BLE_1M_Ant1_2440



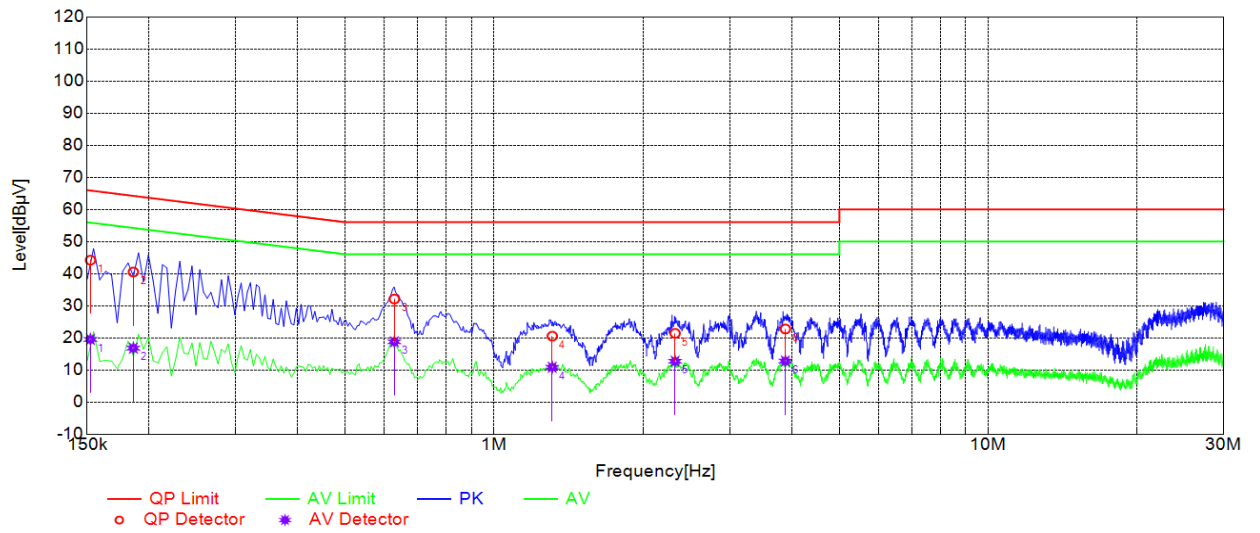
BLE_1M_Ant1_2480

Appendix H: Conducted emission AC power port

Test Graph



NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Type	Verdict
1	0.1609	10.24	43.50	65.42	21.92	18.03	55.42	37.39	N	PASS
2	0.1773	10.24	41.30	64.61	23.31	16.61	54.61	38.00	N	PASS
3	0.6291	10.26	31.01	56.00	24.99	17.87	46.00	28.13	N	PASS
4	1.7571	10.30	23.18	56.00	32.82	13.41	46.00	32.59	N	PASS
5	2.3266	10.30	22.61	56.00	33.39	13.33	46.00	32.67	N	PASS
6	4.8041	10.36	21.95	56.00	34.05	12.45	46.00	33.55	N	PASS



NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Type	Verdict
1	0.1523	10.25	44.20	65.87	21.67	19.49	55.87	36.38	L	PASS
2	0.1860	10.24	40.50	64.21	23.71	16.77	54.21	37.44	L	PASS
3	0.6280	10.27	32.09	56.00	23.91	18.75	46.00	27.25	L	PASS
4	1.3110	10.31	20.52	56.00	35.48	10.83	46.00	35.17	L	PASS
5	2.3246	10.35	21.39	56.00	34.61	12.70	46.00	33.30	L	PASS
6	3.8864	10.39	22.76	56.00	33.24	12.76	46.00	33.24	L	PASS

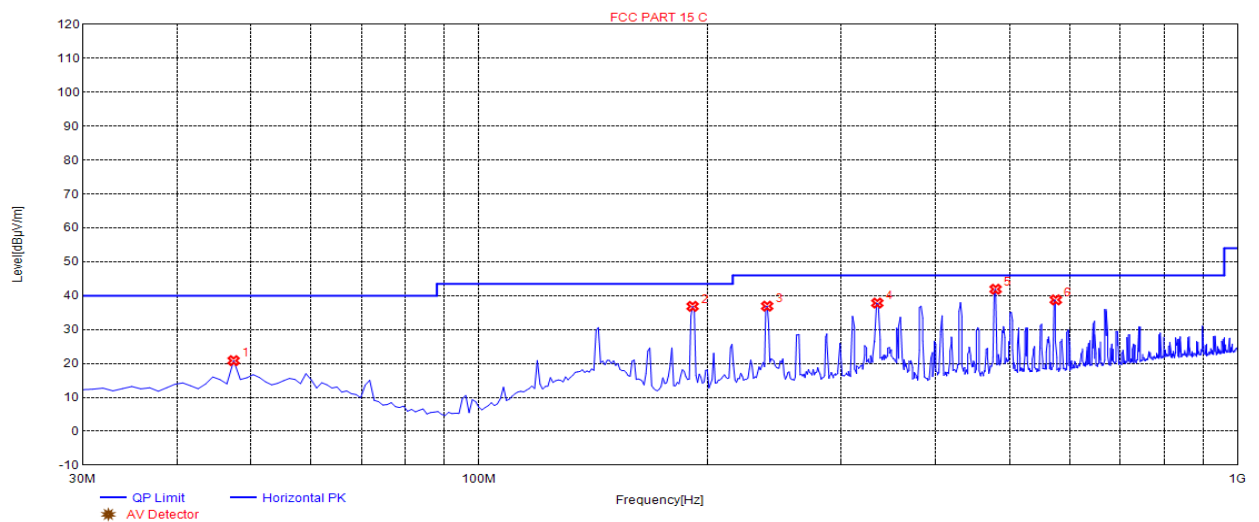
Appendix H: Radiated emissions for transmitter

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

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

Mode:	2402	Voltage:	120V/60Hz
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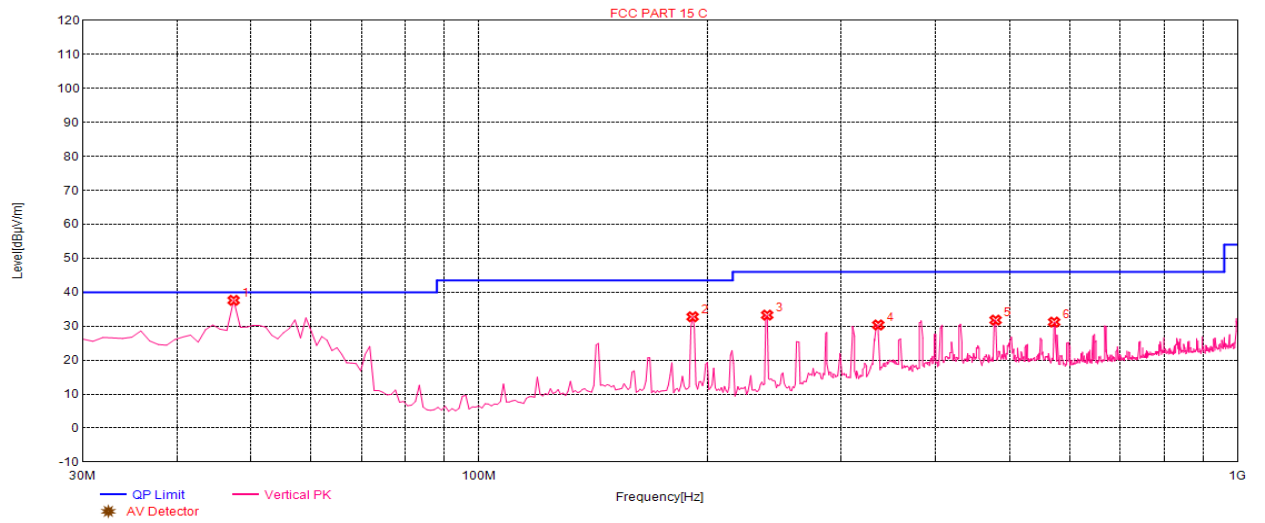
Test Graph



NO.	Freq. [MHz]	PK Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	47.4775	36.69	20.84	-15.85	40.00	19.16	Horizontal	PASS
2	191.1812	55.09	36.85	-18.24	43.50	6.65	Horizontal	PASS
3	239.7297	54.20	36.92	-17.28	46.00	9.08	Horizontal	PASS
4	334.8849	52.64	37.83	-14.81	46.00	8.17	Horizontal	PASS
5	479.5596	53.52	41.91	-11.61	46.00	4.09	Horizontal	PASS
6	575.6857	48.31	38.77	-9.54	46.00	7.23	Horizontal	PASS

Mode:	2402	Voltage:	120V/60Hz
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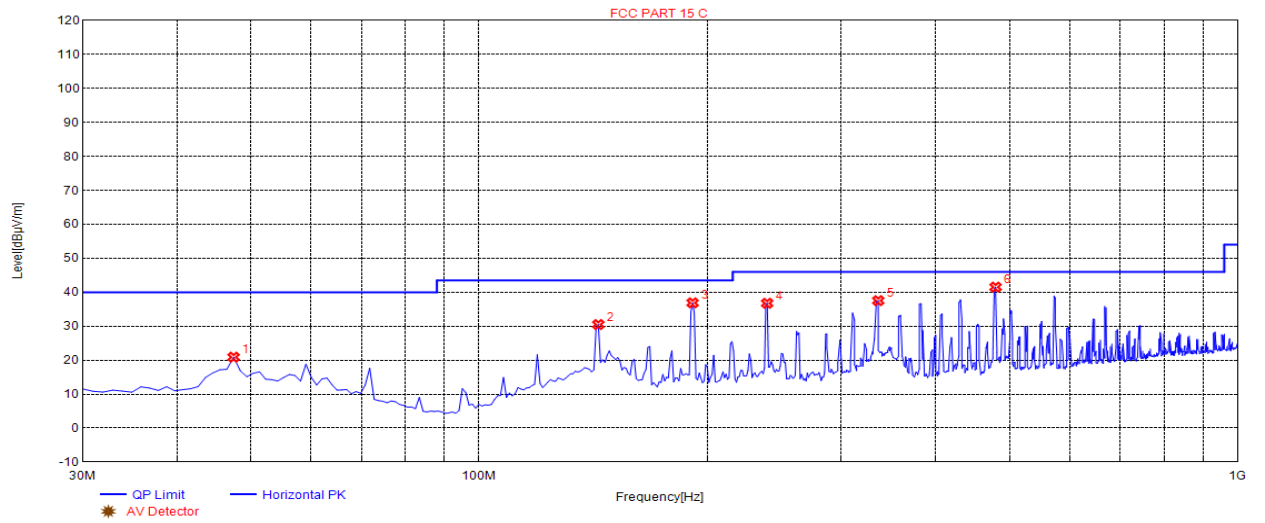
Test Graph



NO.	Freq. [MHz]	PK Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	47.4775	53.47	37.62	-15.85	40.00	2.38	Vertical	PASS
2	191.1812	51.01	32.77	-18.24	43.50	10.73	Vertical	PASS
3	239.7297	50.55	33.27	-17.28	46.00	12.73	Vertical	PASS
4	335.8559	45.16	30.37	-14.79	46.00	15.63	Vertical	PASS
5	479.5596	43.41	31.80	-11.61	46.00	14.20	Vertical	PASS
6	572.7728	40.82	31.22	-9.60	46.00	14.78	Vertical	PASS

Mode:	2440	Voltage:	120V/60Hz
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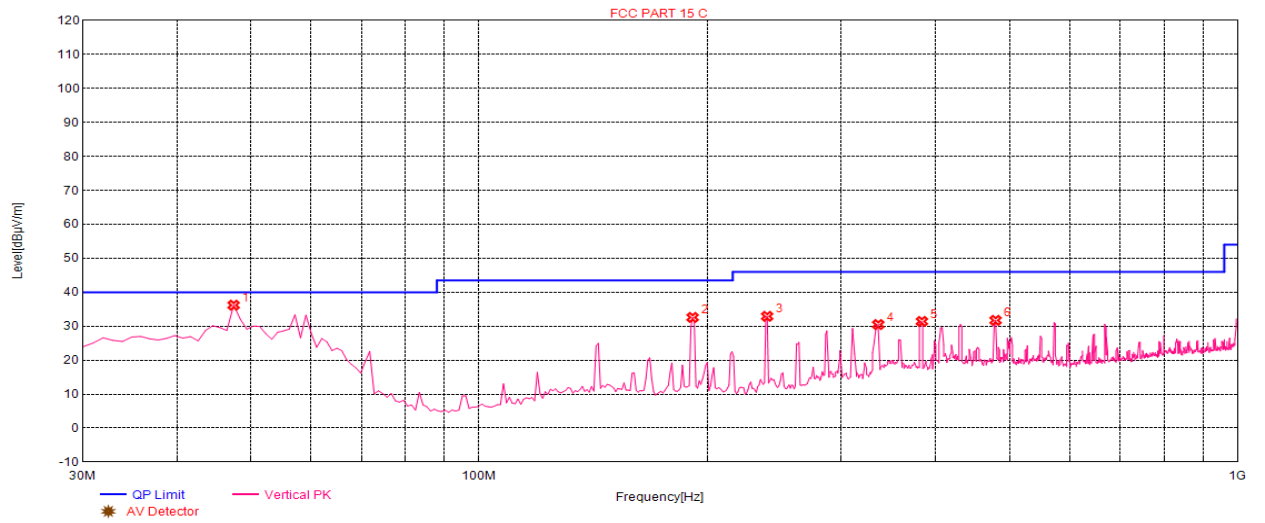
Test Graph



NO.	Freq. [MHz]	PK Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	47.4775	36.74	20.89	-15.85	40.00	19.11	Horizontal	PASS
2	143.6036	46.50	30.50	-16.00	43.50	13.00	Horizontal	PASS
3	191.1812	55.12	36.88	-18.24	43.50	6.62	Horizontal	PASS
4	239.7297	54.04	36.76	-17.28	46.00	9.24	Horizontal	PASS
5	335.8559	52.32	37.53	-14.79	46.00	8.47	Horizontal	PASS
6	479.5596	53.12	41.51	-11.61	46.00	4.49	Horizontal	PASS

Mode:	2440	Voltage:	120V/60Hz
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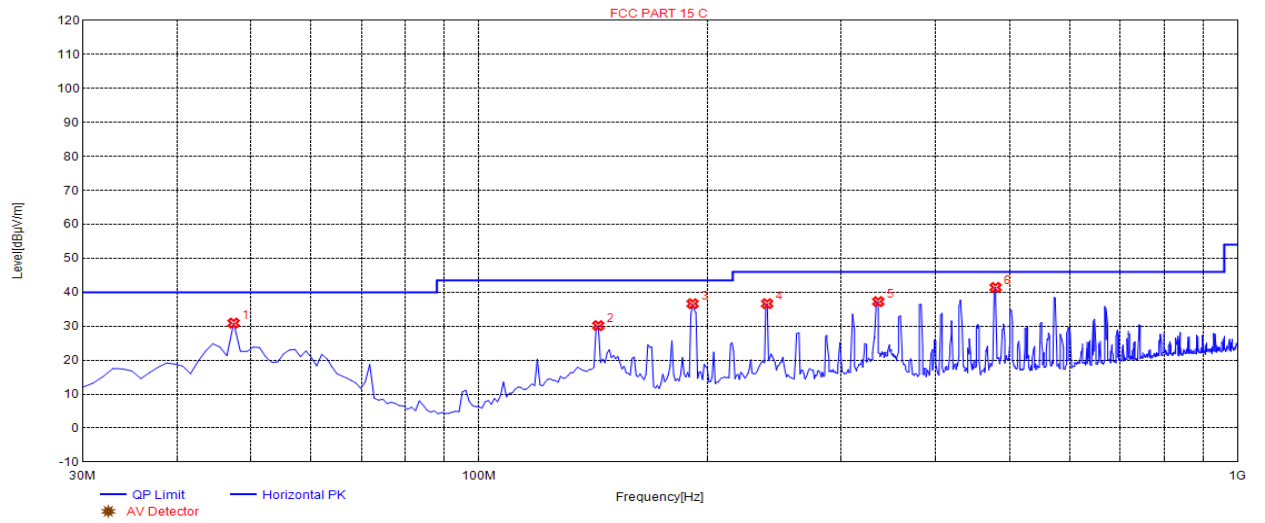
Test Graph



NO.	Freq. [MHz]	PK Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	47.4775	52.04	36.19	-15.85	40.00	3.81	Vertical	PASS
2	191.1812	50.82	32.58	-18.24	43.50	10.92	Vertical	PASS
3	239.7297	50.19	32.91	-17.28	46.00	13.09	Vertical	PASS
4	335.8559	45.28	30.49	-14.79	46.00	15.51	Vertical	PASS
5	383.4334	45.21	31.42	-13.79	46.00	14.58	Vertical	PASS
6	479.5596	43.34	31.73	-11.61	46.00	14.27	Vertical	PASS

Mode:	2480	Voltage:	120V/60Hz
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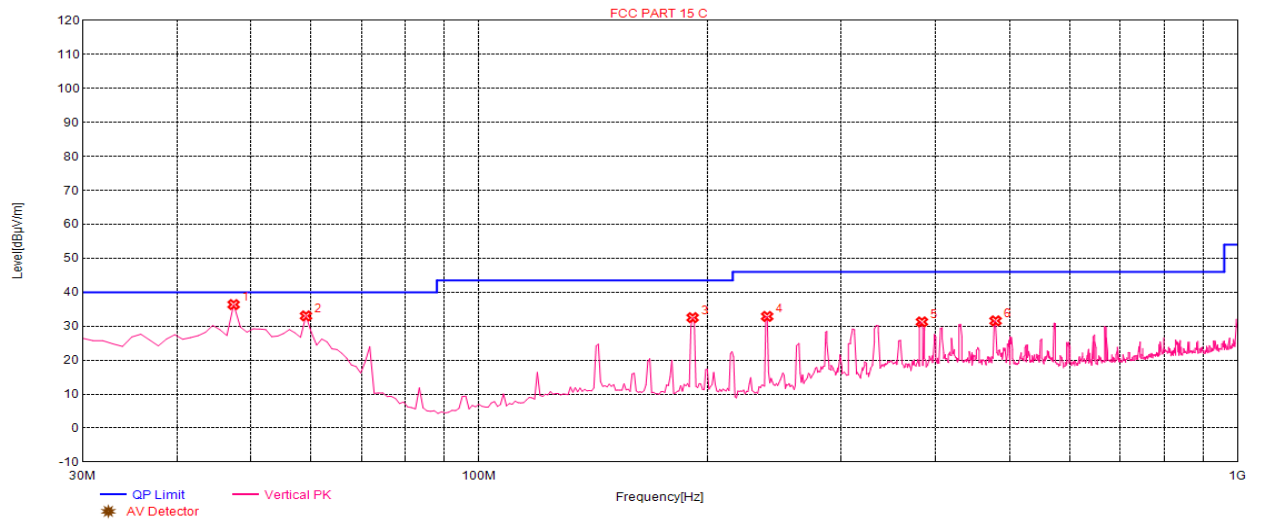
Test Graph



NO.	Freq. [MHz]	PK Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	47.4775	46.77	30.92	-15.85	40.00	9.08	Horizontal	PASS
2	143.6036	46.17	30.17	-16.00	43.50	13.33	Horizontal	PASS
3	191.1812	54.87	36.63	-18.24	43.50	6.87	Horizontal	PASS
4	239.7297	53.92	36.64	-17.28	46.00	9.36	Horizontal	PASS
5	335.8559	52.03	37.24	-14.79	46.00	8.76	Horizontal	PASS
6	479.5596	53.02	41.41	-11.61	46.00	4.59	Horizontal	PASS

Mode:	2480	Voltage:	120V/60Hz
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Test Graph



NO.	Freq. [MHz]	PK Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	47.4775	52.22	36.37	-15.85	40.00	3.63	Vertical	PASS
2	59.1291	49.15	33.03	-16.12	40.00	6.97	Vertical	PASS
3	191.1812	50.76	32.52	-18.24	43.50	10.98	Vertical	PASS
4	239.7297	50.16	32.88	-17.28	46.00	13.12	Vertical	PASS
5	383.4334	45.06	31.27	-13.79	46.00	14.73	Vertical	PASS
6	479.5596	43.19	31.58	-11.61	46.00	14.42	Vertical	PASS

Mode:	BLE 2402	Voltage:	120V/60Hz
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PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dBμV/m]	Factor [dB/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Polarity	Verdict
1	4803.6665	67.02	-16.47	50.55	74.00	23.45	Horizontal	PASS

AV Final Data List								
NO.	Freq. [MHz]	AV Reading [dBμV/m]	Factor [dB/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity	Verdict
1	4803.6665	54.60	-16.47	38.13	54.00	15.87	Horizontal	PASS

Mode:	BLE 2402	Voltage:	120V/60Hz
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PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dBμV/m]	Factor [dB/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Polarity	Verdict
1	4805.2446	64.16	-16.46	47.70	74.00	26.30	Vertical	PASS

AV Final Data List								
NO.	Freq. [MHz]	AV Reading [dBμV/m]	Factor [dB/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity	Verdict
1	4805.2446	49.47	-16.46	33.01	54.00	20.99	Vertical	PASS

Mode:	2440	Voltage:	120V/60Hz
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PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dB μ V/m]	Factor [dB/m]	PK Value [dB μ V/m]	PK Limit [dB μ V/m]	PK Margin [dB]	Polarity	Verdict
1	4880.0198	68.52	-16.32	52.20	74.00	21.80	Horizontal	PASS

AV Final Data List								
NO.	Freq. [MHz]	AV Reading [dB μ V/m]	Factor [dB/m]	AV Value [dB μ V/m]	AV Limit [dB μ V/m]	AV Margin [dB]	Polarity	Verdict
1	4880.0198	59.6	-16.32	43.28	54.00	10.72	Horizontal	PASS

Mode:	2440	Voltage:	120V/60Hz
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PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dB μ V/m]	Factor [dB/m]	PK Value [dB μ V/m]	PK Limit [dB μ V/m]	PK Margin [dB]	Polarity	Verdict
1	4880.8367	64.84	-16.32	48.52	74.00	25.48	Vertical	PASS

AV Final Data List								
NO.	Freq. [MHz]	AV Reading [dB μ V/m]	Factor [dB/m]	AV Value [dB μ V/m]	AV Limit [dB μ V/m]	AV Margin [dB]	Polarity	Verdict
1	4880.8367	53.36	-16.32	37.04	54.00	16.96	Vertical	PASS

Mode:	2480	Voltage:	120V/60Hz
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PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dBμV/m]	Factor [dB/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Polarity	Verdict
1	4959.6323	68.39	-16.35	52.04	74.00	21.96	Horizontal	PASS

AV Final Data List								
NO.	Freq. [MHz]	AV Reading [dBμV/m]	Factor [dB/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity	Verdict
1	4959.6323	58.08	-16.35	41.73	54.00	12.27	Horizontal	PASS

Mode:	2480	Voltage:	120V/60Hz
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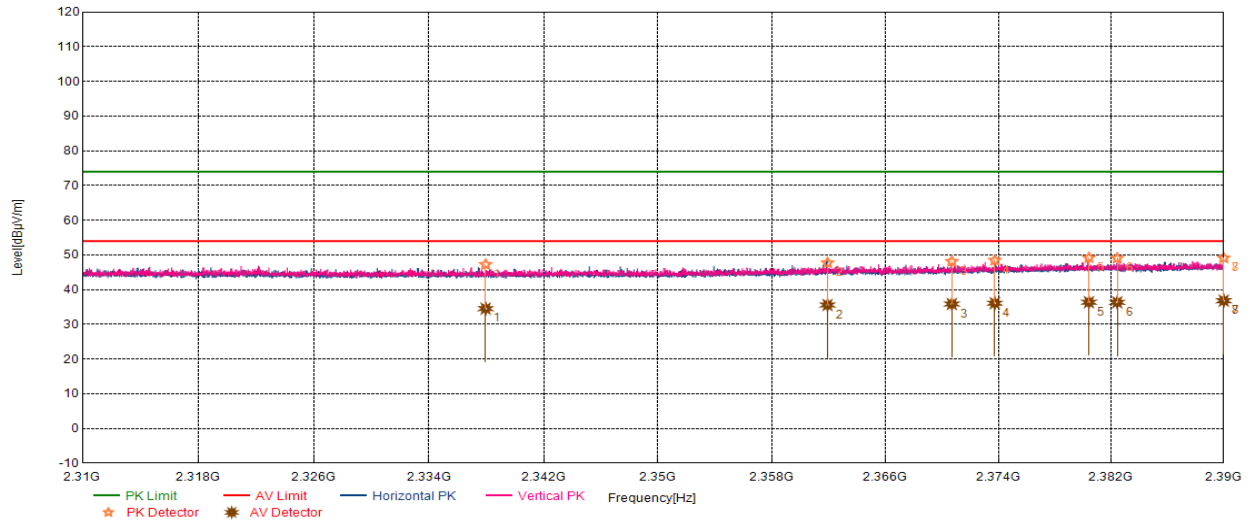
PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dBμV/m]	Factor [dB/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Polarity	Verdict
1	4959.1562	66.34	-16.35	49.99	74.00	24.01	Vertical	PASS

AV Final Data List								
NO.	Freq. [MHz]	AV Reading [dBμV/m]	Factor [dB/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity	Verdict
1	4959.1562	55.99	-16.35	39.64	54.00	14.36	Vertical	PASS

Band edge

Mode:	2402	Voltage:	120V/60Hz
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Test Graph



PK Final Data List

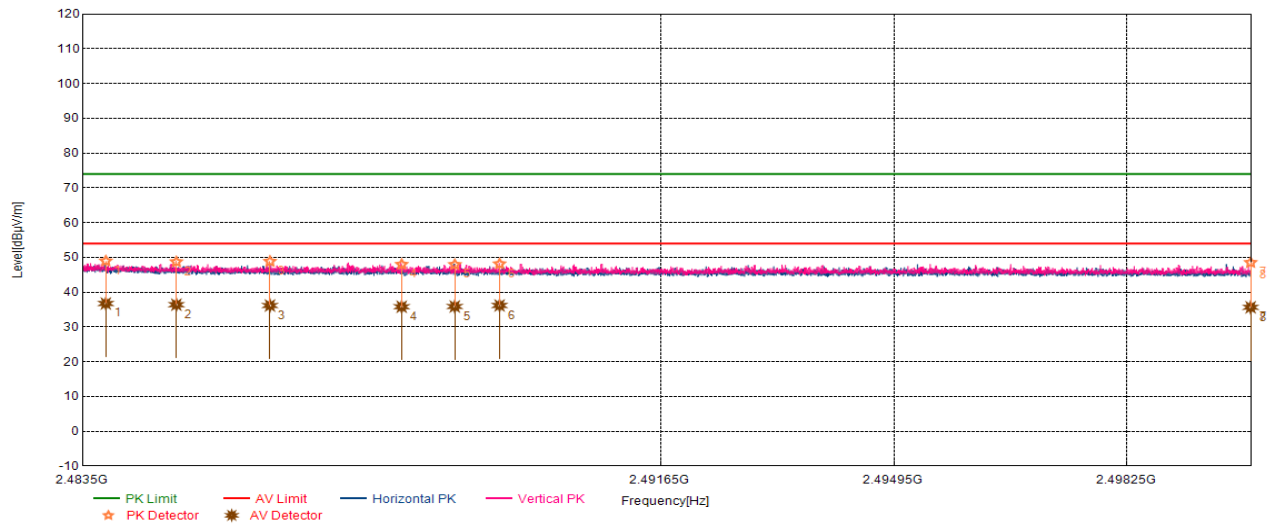
NO.	Freq. [MHz]	PK Reading [dBμV/m]	Factor [dB/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Polarity	Verdict
1	2337.9548	66.99	-19.74	47.25	74.00	26.75	Vertical	PASS
2	2361.9172	66.82	-19.09	47.73	74.00	26.27	Horizontal	PASS
3	2370.6941	66.76	-18.61	48.15	74.00	25.85	Vertical	PASS
4	2373.7344	66.92	-18.45	48.47	74.00	25.53	Horizontal	PASS
5	2380.4070	67.29	-18.09	49.20	74.00	24.80	Vertical	PASS
6	2382.4152	67.05	-17.98	49.07	74.00	24.93	Horizontal	PASS
7	2390.0000	66.69	-17.57	49.12	74.00	24.88	Vertical	PASS
8	2390.0000	66.76	-17.57	49.19	74.00	24.81	Horizontal	PASS

AV Final Data List

NO.	Freq. [MHz]	AV Reading [dBμV/m]	Factor [dB/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity	Verdict
1	2337.9548	54.29	-19.74	34.55	54.00	19.45	Vertical	PASS
2	2361.9172	54.69	-19.09	35.60	54.00	18.40	Horizontal	PASS
3	2370.6941	54.48	-18.61	35.87	54.00	18.13	Vertical	PASS
4	2373.7344	54.55	-18.45	36.10	54.00	17.90	Horizontal	PASS
5	2380.4070	54.48	-18.09	36.39	54.00	17.61	Vertical	PASS
6	2382.4152	54.35	-17.98	36.37	54.00	17.63	Horizontal	PASS
7	2390.0000	54.40	-17.57	36.83	54.00	17.17	Vertical	PASS
8	2390.0000	54.44	-17.57	36.87	54.00	17.13	Horizontal	PASS

Mode:	2480	Voltage:	120V/60Hz
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Test Graph



PK Final Data List

NO.	Freq. [MHz]	PK Reading [dBµV/m]	Factor [dB/m]	PK Value [dBµV/m]	PK Limit [dBµV/m]	PK Margin [dB]	Polarity	Verdict
1	2483.8300	67.09	-18.11	48.98	74.00	25.02	Horizontal	PASS
2	2484.8234	67.11	-18.36	48.75	74.00	25.25	Vertical	PASS
3	2486.1419	67.41	-18.54	48.87	74.00	25.13	Horizontal	PASS
4	2487.9984	66.74	-18.74	48.00	74.00	26.00	Vertical	PASS
5	2488.7475	66.78	-18.83	47.95	74.00	26.05	Horizontal	PASS
6	2489.3795	67.05	-18.90	48.15	74.00	25.85	Vertical	PASS
7	2500.0000	67.39	-18.85	48.54	74.00	25.46	Vertical	PASS
8	2500.0000	66.65	-18.85	47.80	74.00	26.20	Horizontal	PASS

AV Final Data List

NO.	Freq. [MHz]	AV Reading [dBµV/m]	Factor [dB/m]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Polarity	Verdict
1	2483.8300	54.86	-18.11	36.75	54.00	17.25	Horizontal	PASS
2	2484.8234	54.78	-18.36	36.42	54.00	17.58	Vertical	PASS
3	2486.1419	54.72	-18.54	36.18	54.00	17.82	Horizontal	PASS
4	2487.9984	54.57	-18.74	35.83	54.00	18.17	Vertical	PASS
5	2488.7475	54.73	-18.83	35.90	54.00	18.10	Horizontal	PASS
6	2489.3795	55.09	-18.90	36.19	54.00	17.81	Vertical	PASS
7	2500.0000	54.51	-18.85	35.66	54.00	18.34	Vertical	PASS
8	2500.0000	54.42	-18.85	35.57	54.00	18.43	Horizontal	PASS