

Appendix for Test report

1. Appendix A: DTS Bandwidth

1.1 Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2402	0.672	2401.660	2402.332	≥0.5	PASS
BLE_TM1	Ant1	2440	0.668	2439.668	2440.336	≥0.5	PASS
		2480	0.652	2479.676	2480.328	≥0.5	PASS





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2. Appendix B: Occupied Channel Bandwidth

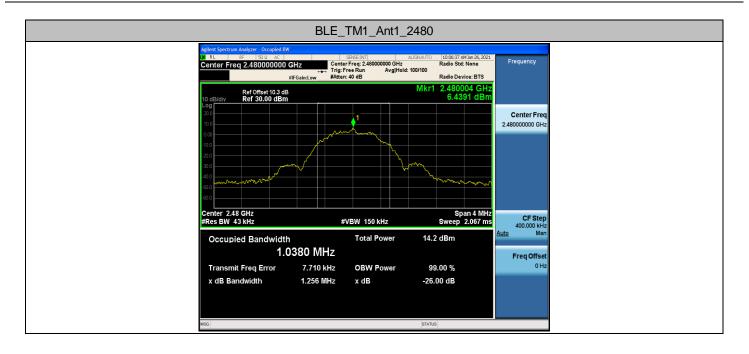
2.1 Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2402	1.0325	2401.492	2402.524		PASS
BLE_TM1	Ant1	2440	1.0394	2439.491	2440.530		PASS
		2480	1.0380	2479.489	2480.527		PASS









3.Appendix C: Duty Cycle

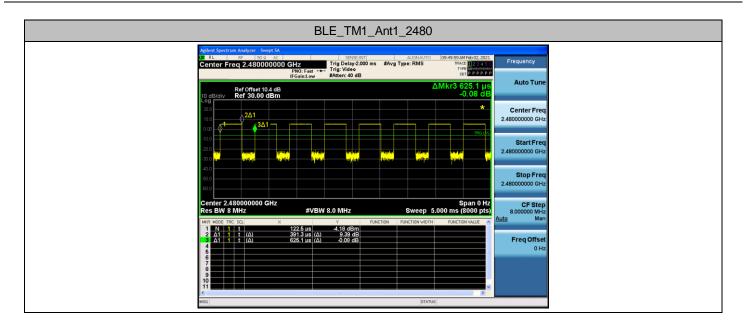
3.1 Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit[MHz]	Verdict
		2402	0.39	0.63	62.60		PASS
BLE_TM1	Ant1	2440	0.39	0.63	62.50		PASS
		2480	0.39	0.63	62.60		PASS









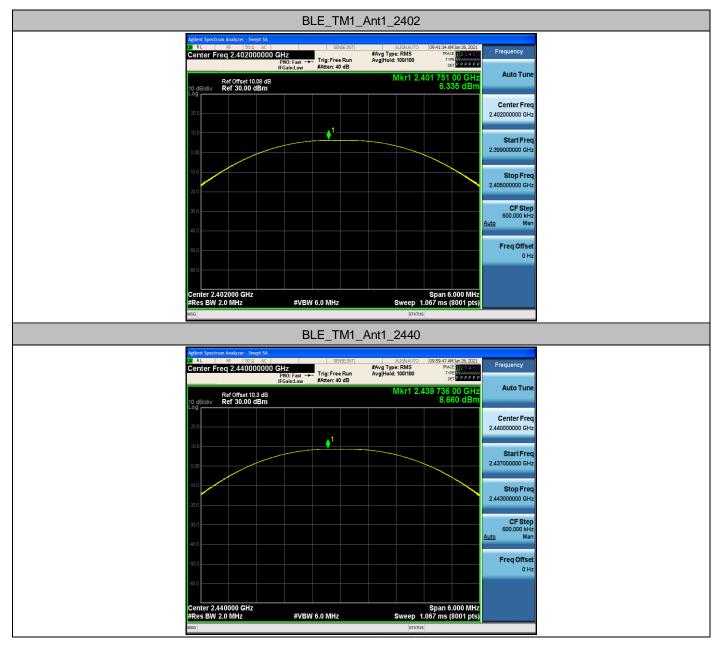
4. Appendix D: Maximum Peak output power

4.1 Test Result

TeetMede	Taat04a da Antanaa	Channel	Conducted	Conducted	EIRP	EIRP	Verdiet
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Result[dBm]	Result[dBm]	Verdict
		2402	6.34	30	4.14	36	PASS
BLE_TM1	Ant1	2440	8.66	30	6.46	36	PASS
		2480	7.66	30	5.46	36	PASS

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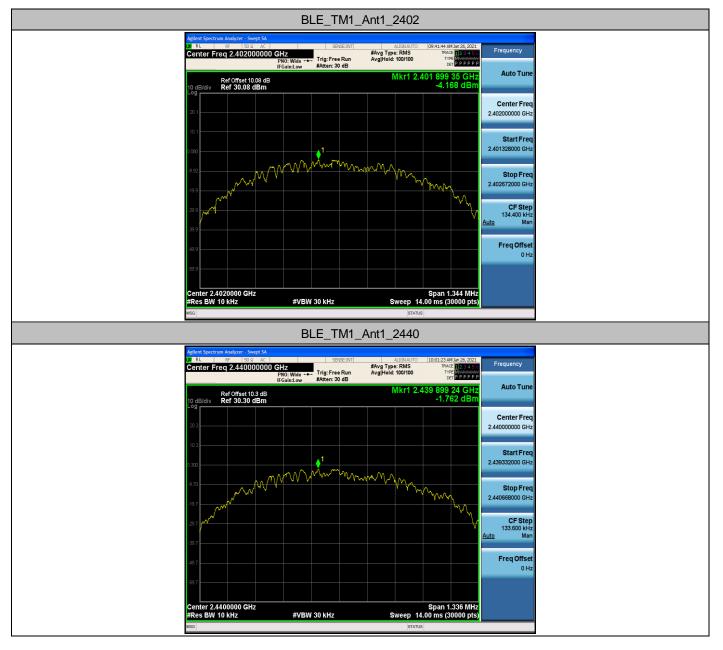
5. Appendix E: Maximum power spectral density

5.1 Test Result

TestMode	Antenna	Channel	Result[dBm/10kHz]	Limit[dBm/3kHz]	Verdict
	BLE_TM1 Ant1	2402	-4.17	<=8	PASS
BLE_TM1		2440	-1.76	<=8	PASS
		2480	-2.81	<=8	PASS

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Center 2.4800000 GHz #Res BW 10 kHz

#VBW 30 kHz



Span 1.304 MHz Sweep 14.00 ms (30000 pts)

6. Appendix F: Band edge measurements

6.1 Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm/100kHz]	Result[dBm/100kHz]	Limit[dBm/100kHz]	Verdict
BLE TM1	Ant1	Low	2402	6.21	-45.74	<=-13.80	PASS
	Anti	High	2480	7.51	-47.09	<=-12.49	PASS





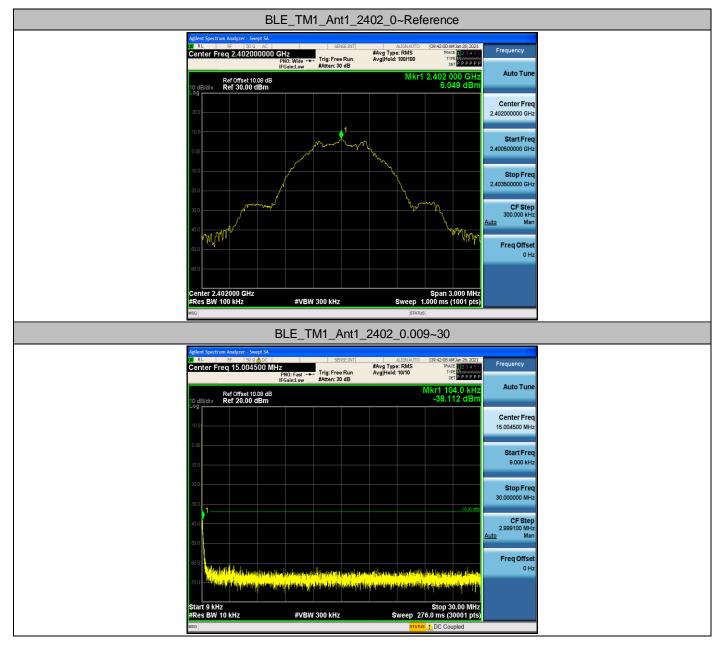
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7 Appendix G: Conducted Spurious Emission

7.1 Test Result

TestMode	Antenna	Channel	FreqRange	RefLevel	Result[dBm]	Limit[dBm]	Verdict
			Reference	6.05	6.05		PASS
		2402	0.009~30	0.009~30	-38.112	<=-33.951	PASS
		2402	30~1000	30~1000	-50.323	<=-23.951	PASS
			1000~26500	1000~26500	-37.337	<=-23.951	PASS
			Reference	8.46	8.46		PASS
BLE TM1	Ant1	2440	0.009~30	0.009~30	-38.069	<=-31.543	PASS
DLC_INII	Anti		30~1000	30~1000	-50.686	<=-21.543	PASS
			1000~26500	1000~26500	-37.771	<=-21.543	PASS
			Reference	7.46	7.46		PASS
		2480	0.009~30	0.009~30	-37.436	<=-32.537	PASS
			30~1000	30~1000	-48.553	<=-22.537	PASS
			1000~26500	1000~26500	-37.775	<=-22.537	PASS

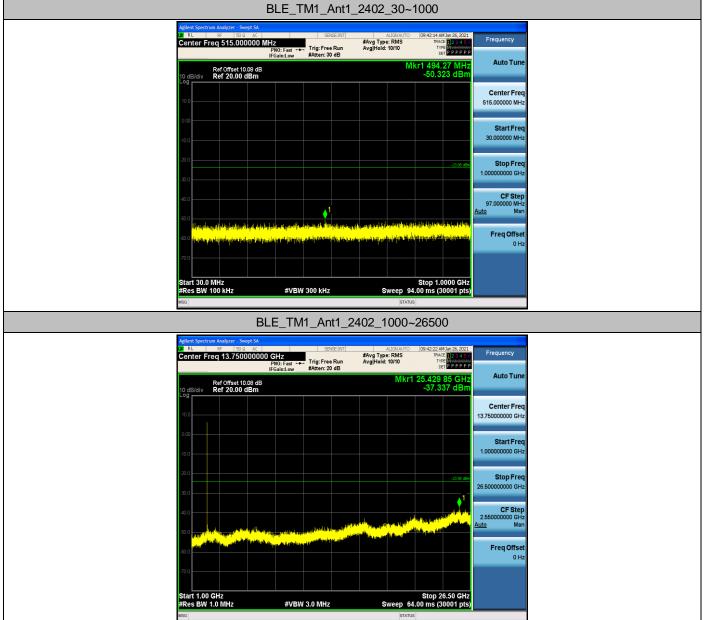




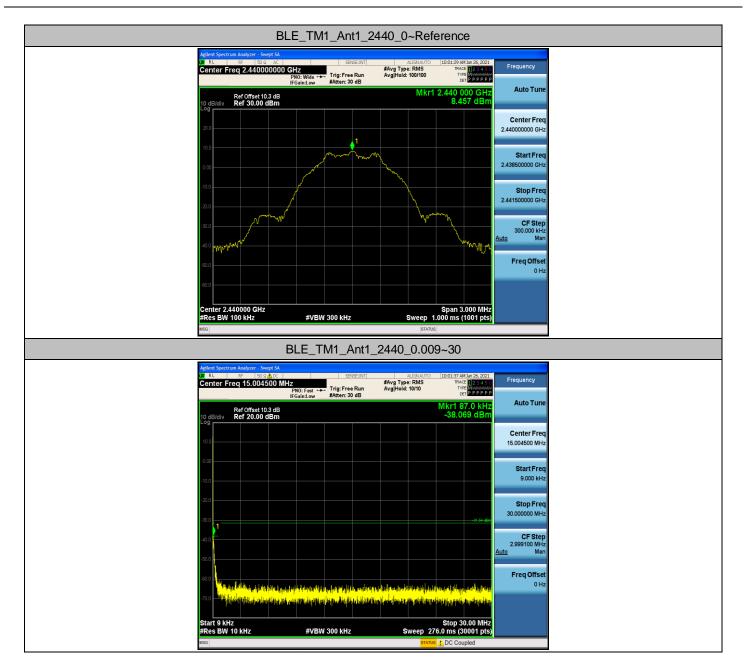




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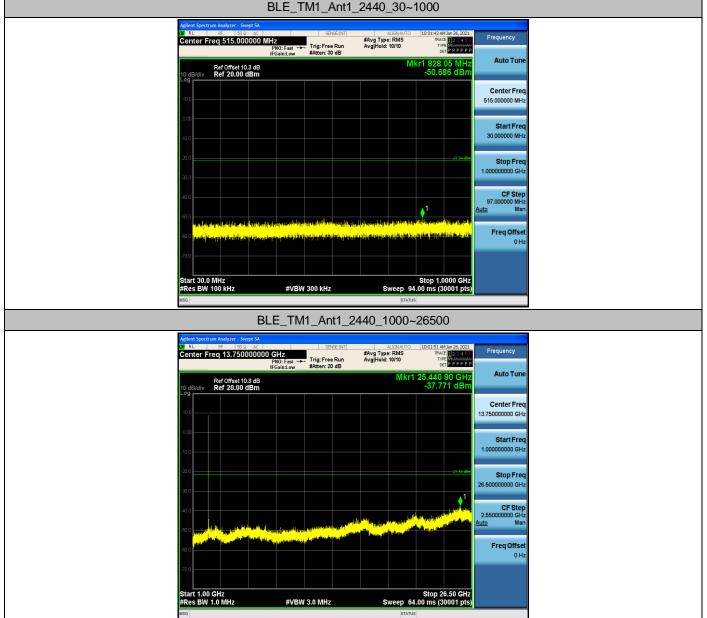




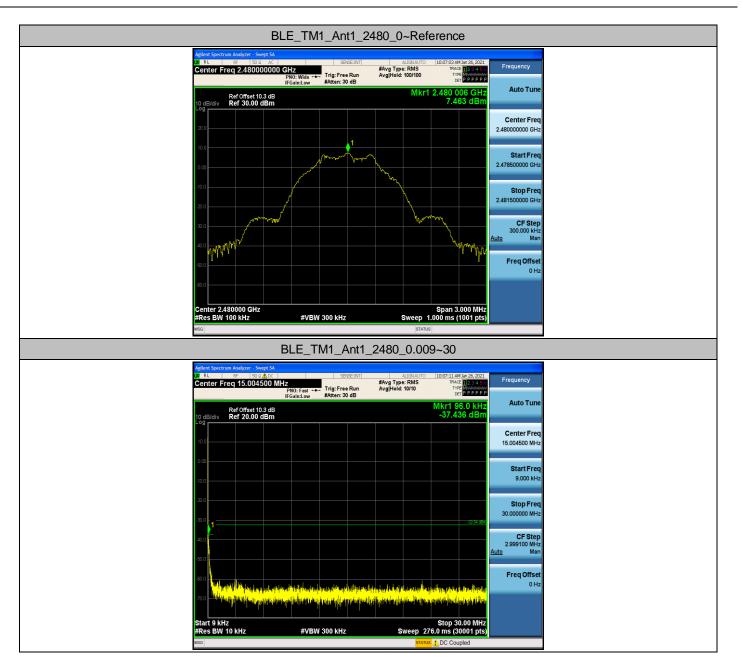




Public



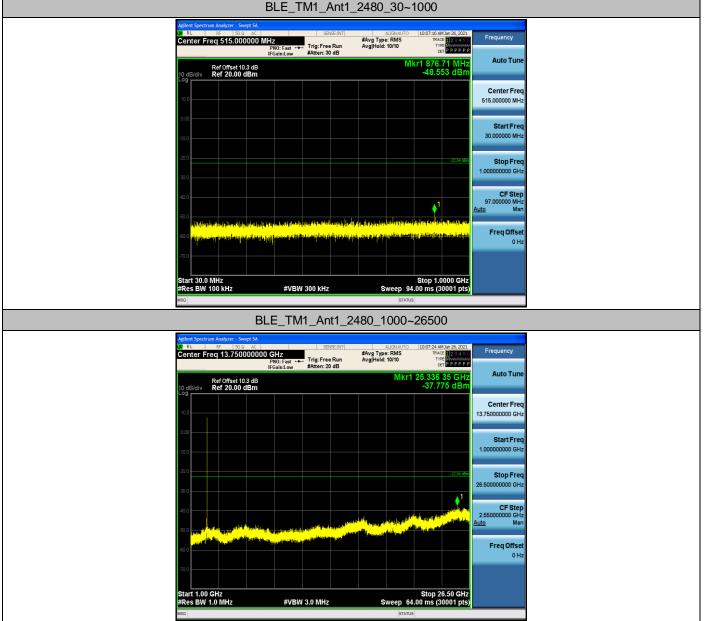
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8. Appendix H: Radiated Spurious Emission & Spurious in Restricted Band

Note:

- 1. We tested all modes & antennas, the data presented below is the worst case.
- 2. The simultaneous transmission has been considered

3. The whole testing range is from "9 KHz to 26.5 GHz (10th harmonics)" is divided into 5 parts according to the test site settings, which are:

- (Part 1): Test range of "9 KHz to 30 MHz", RBW =9 kHz, VBW = 30 kHz
- (Part 2): Test range of "30 GHz to 1 GHz", RBW = 100 kHz, VBW = 300 kHz.
- (Part 3): Test range of "1 GHz to 3 GHz". RBW = 1 MHz, VBW = 3 MHz.
- (Part 4): Test range of "3 GHz to 18 GHz", RBW = 1 MHz, VBW = 3 MHz.
- (Part 5): Test range of "18 GHz to 26.5 GHz". RBW = 1 MHz, VBW = 3 MHz.

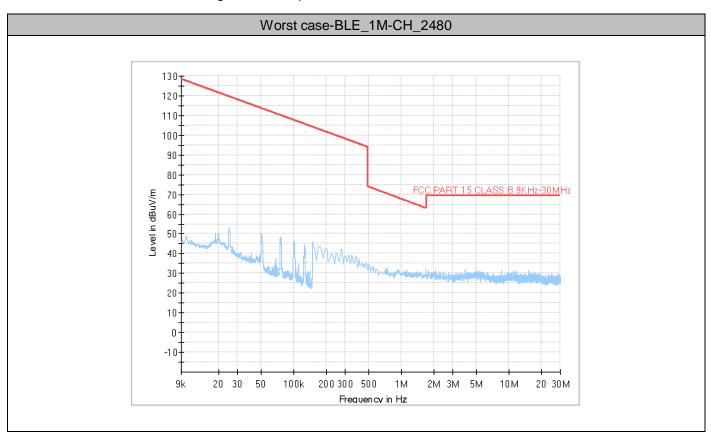
8.1 Test Results

8.1.1 BLE

Test Mode	Antenna	Test Channel	Spurious Emissions Result	Spurious Emissions Limit	Verdict
	Ant1	2402	(see Test Graphs)	(see Test Graphs)	PASS
TM1_BLE_1M	Ant1	2480	(see Test Graphs)	(see Test Graphs)	PASS

8.2.1 Part 1: Testing Range of "9 kHz to 30MHz"

Note 1: The test results and plot for testing range of "9 kHz to 30MHz" showed as below is the WORST case for all Test Modes and Channels. This range will not be presented for each Test Mode and each Channel.

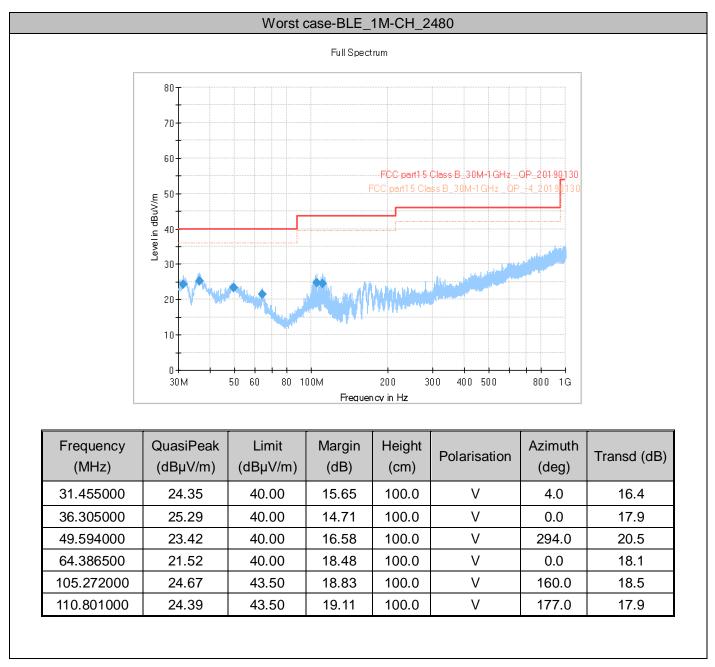


8.2.2

Part 2: Testing Range of "30 MHz to 1 GHz"

Note 1: The test results and plot for testing range of "30 MHz to 1 GHz" showed as below is the WORST case for all Test Modes and Channels. This range will not be presented for each Test Mode and each Channel.

Note 2: The emissions in this range are mainly from the Platform Device (Notepad PC and its ancillary components).



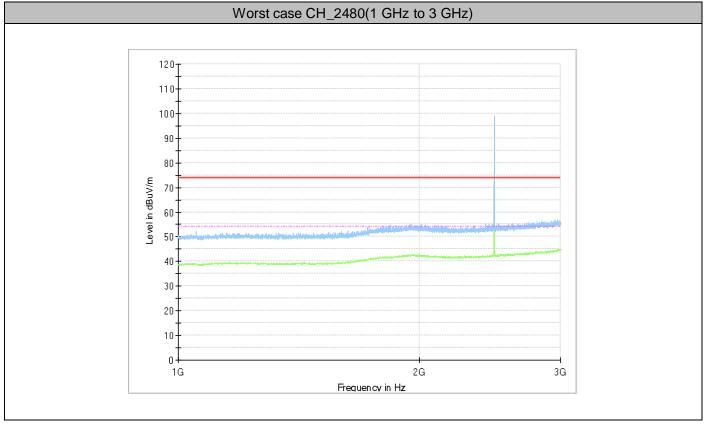
8.2.3 Part 3: Testing Range of "1 GHz to 3 GHz"

Note 1: The testing range of "1 GHz to 3 GHz" is for checking radiated emissions located in restricted bands near the EUT operating bands. The test results and plot for testing range of "1 GHz to 3 GHz" showed as below is the WORST case for all Test Modes and Channels. This range will not be presented for each Test Mode and each Channel.

Note 2: Two limits are required in the testing range above 1 GHz, that is Peak limit (74 dB μ V/m) and Average Limit (54 dB μ V/m).

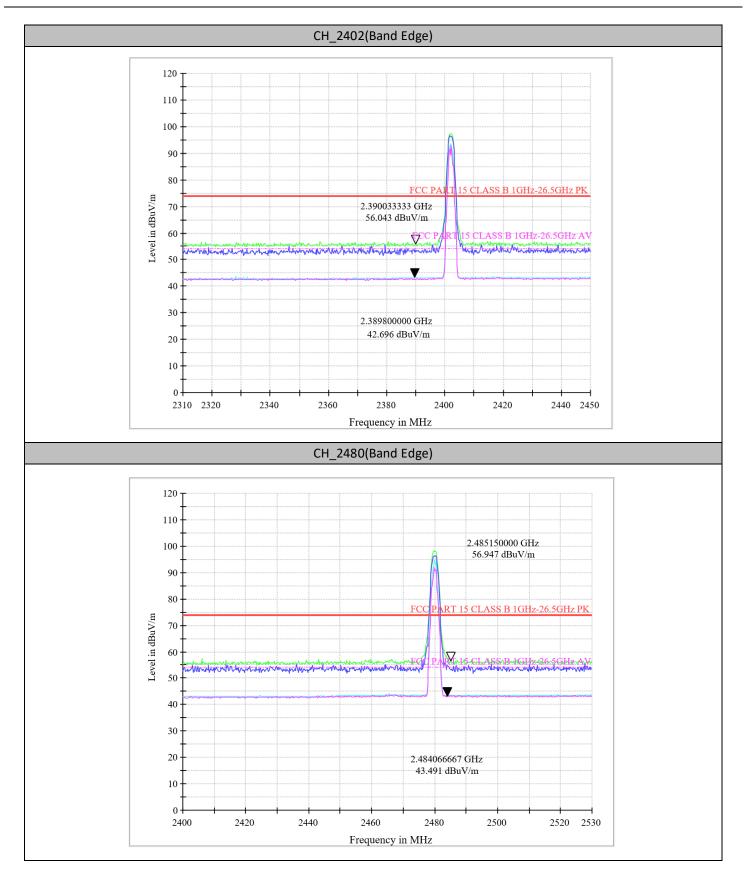
Note 3: The peak spike exceeds the limit line is EUT's operating frequency.

8.2.3.1 TM1_BLE_1M









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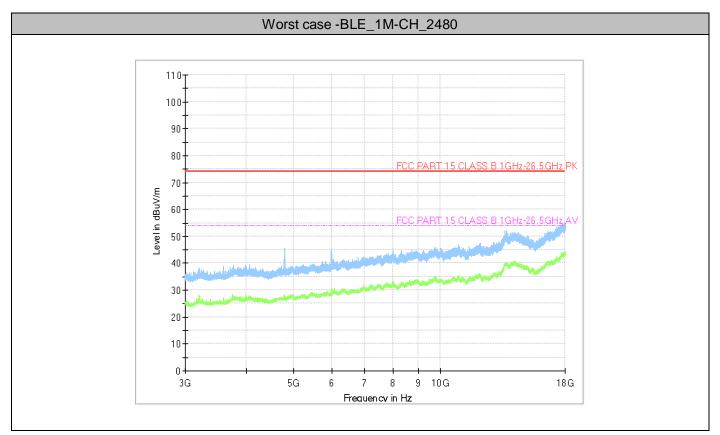
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8.2.4 Part 4: Testing Range of "3 GHz to 18 GHz"

Note 1: The test results and plot for testing range of "3 GHz to 18 GHz" showed as below is the worst case for all Test Modes and Channels. This range will not be presented for each Test Mode and each Channel.

Note 2: The testing range of "3 GHz to 18 GHz" is for checking radiated emissions located in restricted bands faraway from the EUT operating bands.

Note 3: Two limits are required in the testing range above 1 GHz, that is Peak limit (74 dB μ V/m) and Average Limit (54 dB μ V/m).

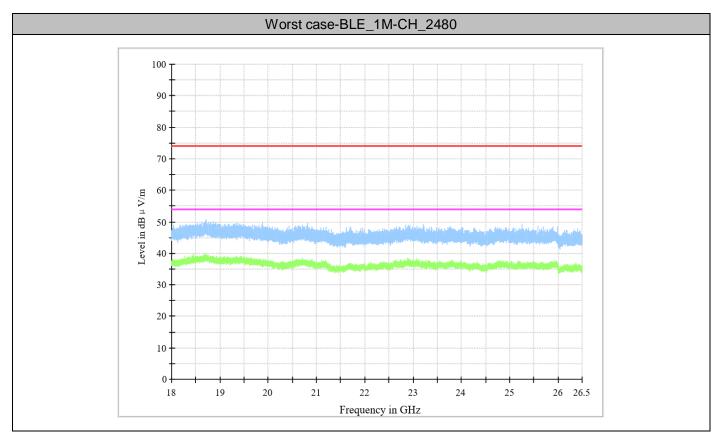


8.2.5 Part 5: Testing Range of "18 GHz to 26.5 GHz"

Note 1: The test results and plot for testing range of "18 GHz to 26.5 GHz" showed as below is the WORST case for all Test Modes and Channels. This range will not be presented for each Test Mode and each Channel.

Note 2: The testing range of "18 GHz to 26.5 GHz" is for checking radiated emissions located in restricted bands faraway from the EUT operating bands.

Note 3: Two limits are required in the testing range above 1 GHz, that is Peak limit (74 dB μ V/m) and Average Limit (54 dB μ V/m).



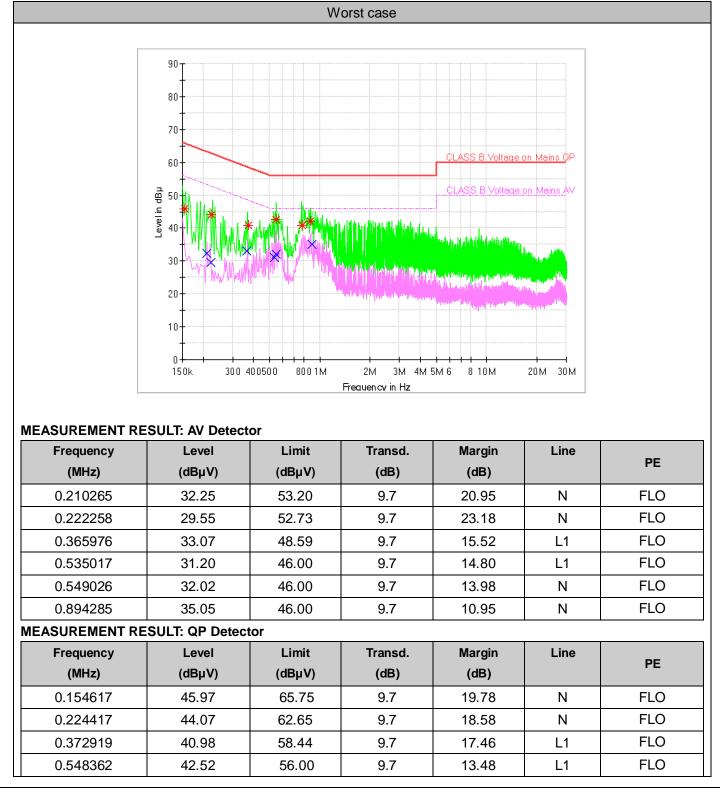
9 Appendix I: Conducted Emission at Power Port

Note 1: The test results and plot for testing range of "150 kHz to 30 MHz" showed as below is the WORST case for all Test Modes and Channels. This range will not be presented for each Test Mode and each Channel. Note 2: RBW =9 kHz; VBW = 30 kHz

9.1 Test Results

Test Mode	Antenna Port	Test Channel	Maximum Emissions	Limit	Verdict
TM1_BLE_1M	Ant1	2480	(see Test Graphs)	(see Test Graphs)	PASS

Note: Not found obvious spikes or see marked spikes on plots and listed emissions records.



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0.780928	40.93	56.00	9.7	15.07	Ν	FLO					
0.875962	41.99	56.00	9.7	14.01	Ν	FLO					
Note:	Note:										
1, Level =Reading lev	el by receiver + T	ransd (Antenna	a factor + cable I	oss – preamplif	ier gain)						
The reading level is calculated by software which is not shown in the sheet.											
2, Margin=Limit - Lev	2, Margin=Limit - Level										

END