

Public



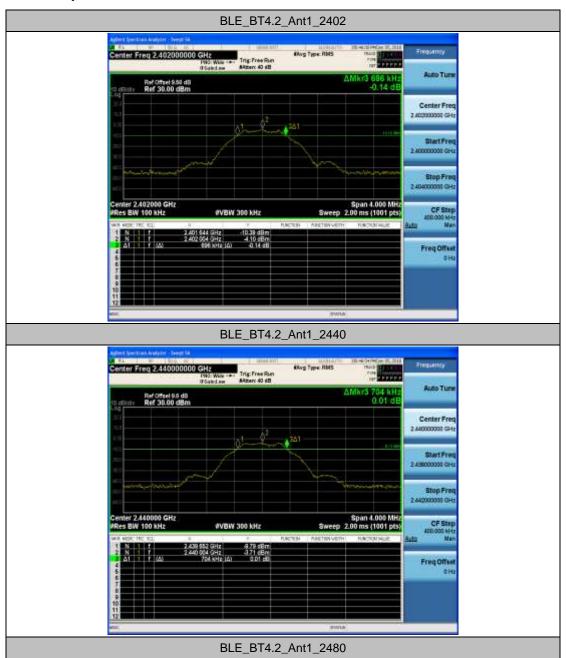
Appendix for Test report



Appendix A: DTS Bandwidth

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2402	0.696	2401.644	2402.340		PASS
BLE_BT4.2	Ant1	2440	0.704	2439.652	2440.356		PASS
		2480	0.708	2479.640	2480.348		PASS







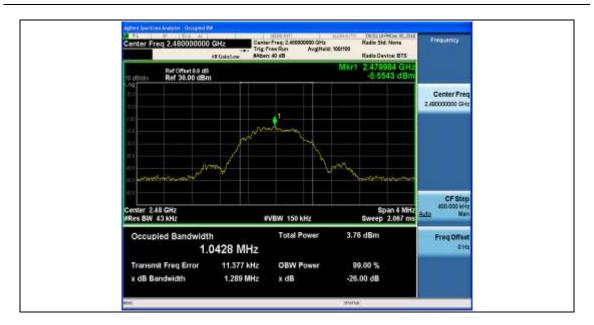


Appendix B: Occupied Channel Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2402	1.0444	2401.490	2402.534		PASS
BLE_BT4.2	Ant1	2440	1.0468	2439.490	2440.537		PASS
		2480	1.0428	2479.490	2480.533		PASS





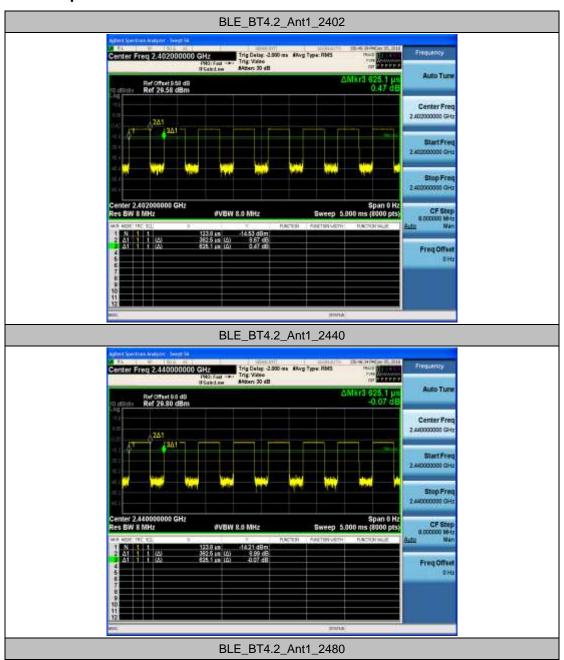


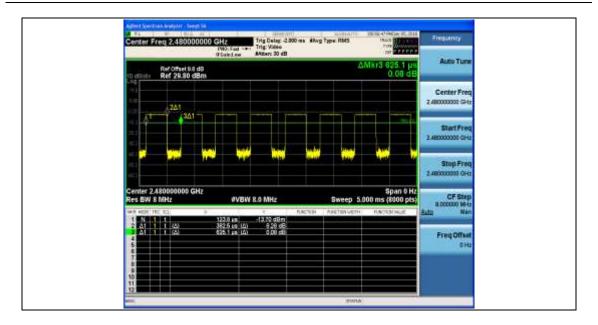


Appendix C: Duty Cycle

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
	BLE_BT4.2 Ant1		0.38	0.63	61.20
BLE_BT4.2			0.38	0.63	61.20
		2480	0.38	0.63	61.20





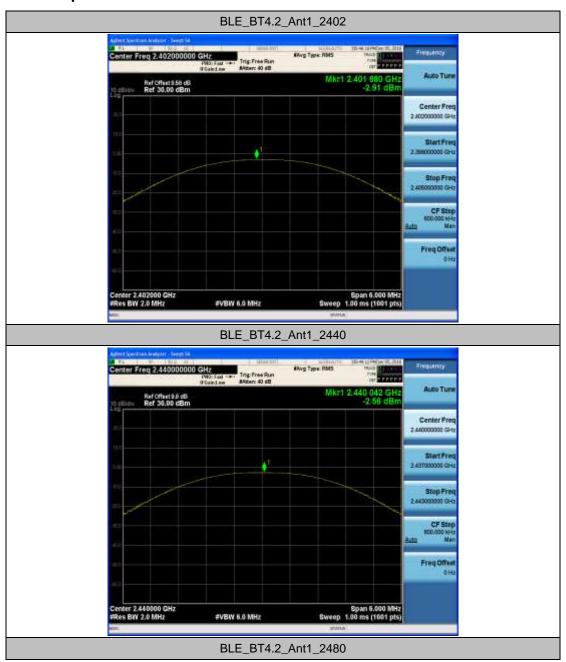




Appendix D: Maximum Peak conducted output power

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
		2402	-2.91	30	PASS
BLE_BT4.2	Ant1	2440	-2.56	30	PASS
		2480	-2.47	30	PASS





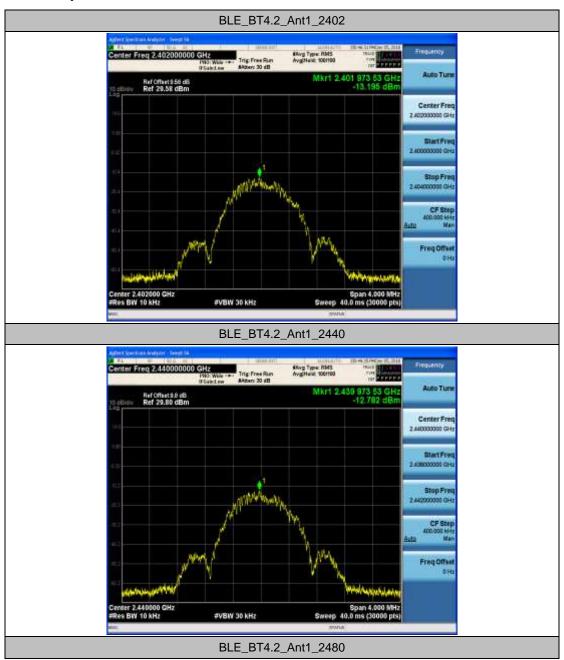


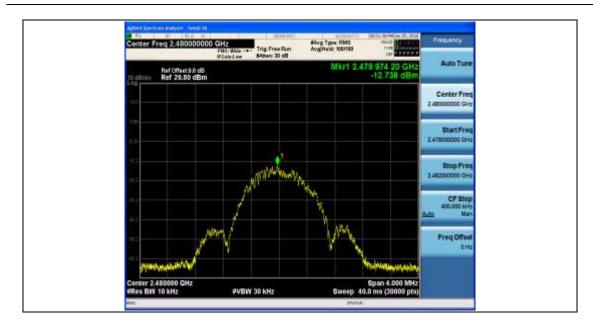


Appendix E: Maximum power spectral density

TestMode	Antenna	Channel	Result[dBm/10KHz]	Limit[dBm/3KHz]	Verdict
		2402	-13.2	8	PASS
BLE_BT4.2	Ant1	2440	-12.78	8	PASS
		2480	-12.74	8	PASS





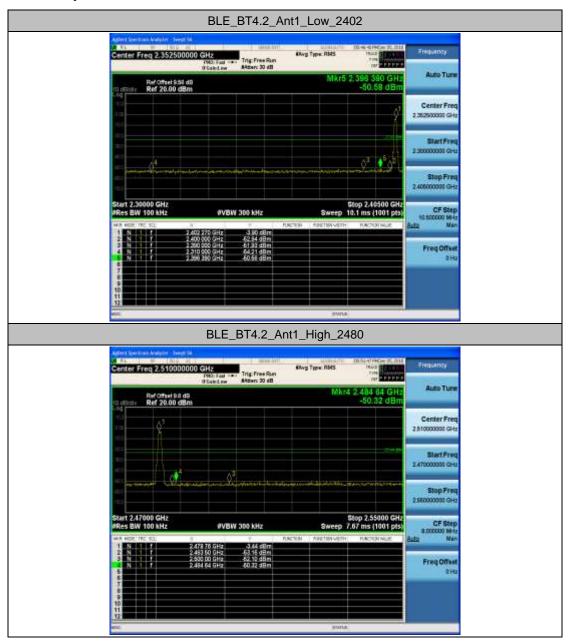




Appendix F: Band edge measurements

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
DIE DT4.0	Ant1	Low	2402	-3.90	-50.58	-23.9	PASS
BLE_BT4.2	Anti	High	2480	-3.44	-50.32	-23.44	PASS



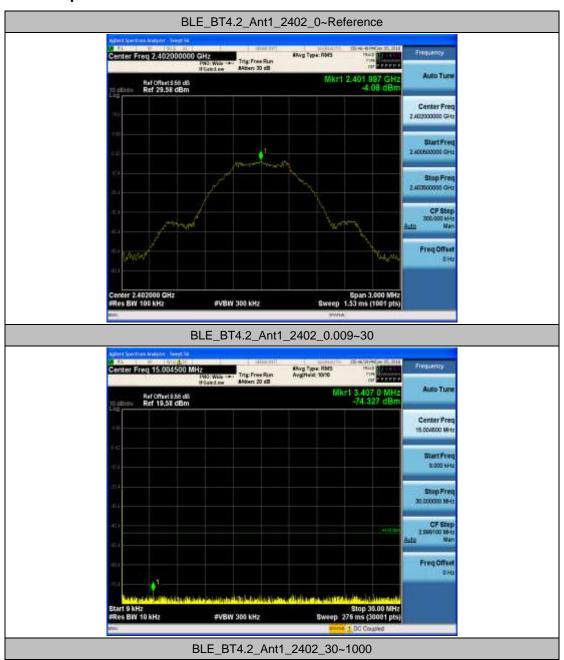




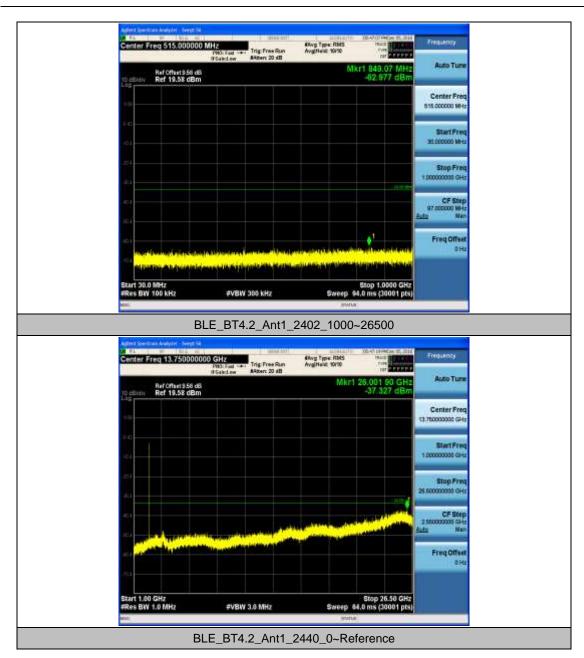
Appendix G: Conducted Spurious Emission

TestMode	Antenna	Channel	FreqRange	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
			Reference	-4.08	-4.08		PASS
		0.400	0.009~30	0.009~30	-74.33	-44.08	PASS
		2402	30~1000	30~1000	-62.98	-34.08	PASS
			1000~26500	1000~26500	-37.33	-34.08	PASS
		2440	Reference	-3.85	-3.85		PASS
DIE DT40	A = +1		0.009~30	0.009~30	-74.11	-43.85	PASS
BLE_BT4.2	Ant1		30~1000	30~1000	-62.33	-33.85	PASS
			1000~26500	1000~26500	-36.51	-33.85	PASS
			Reference	-3.62	-3.62		PASS
		2490	0.009~30	0.009~30	-73.71	-43.62	PASS
		2480	30~1000	30~1000	-62.01	-33.62	PASS
			1000~26500	1000~26500	-36.83	-33.62	PASS

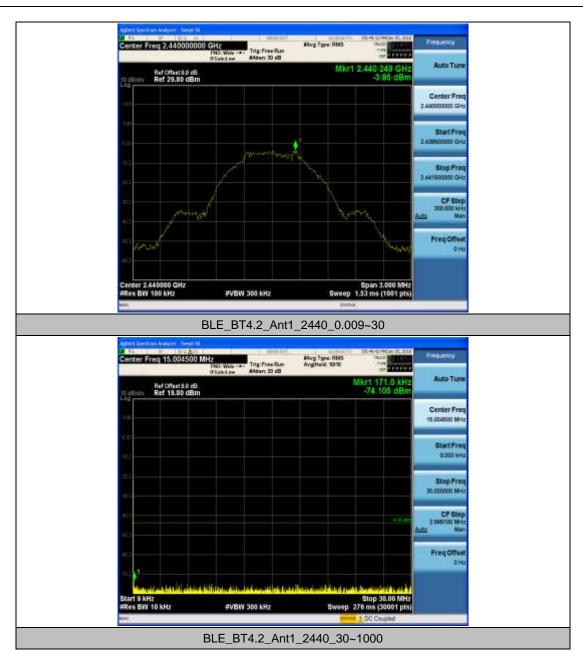




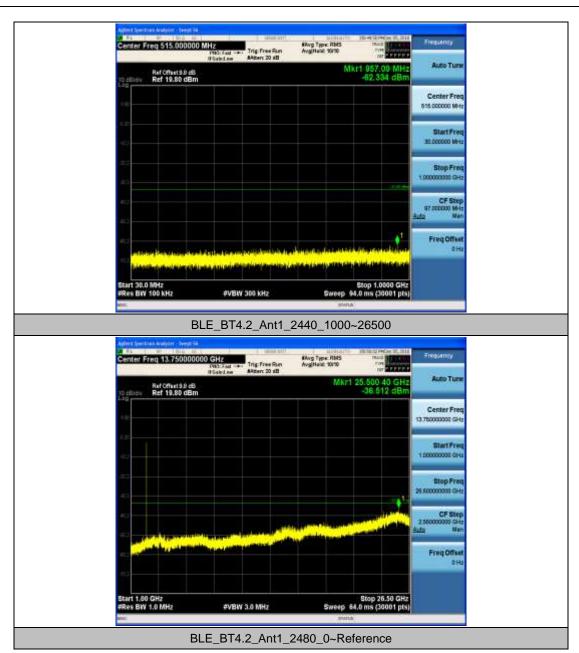




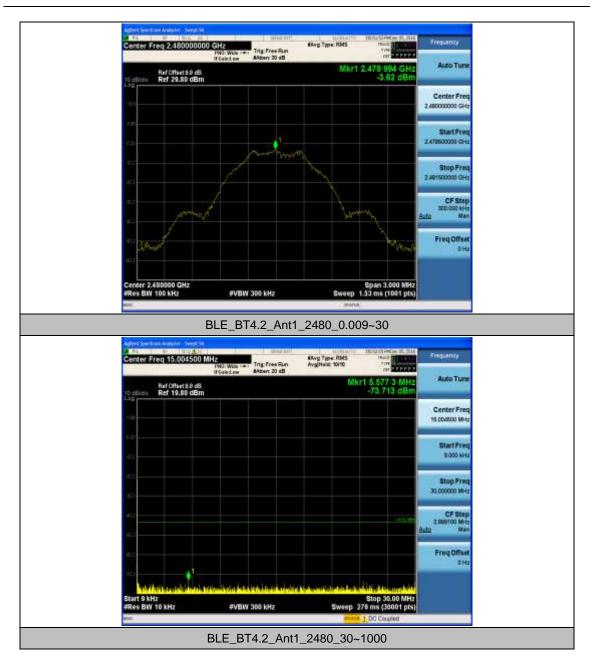




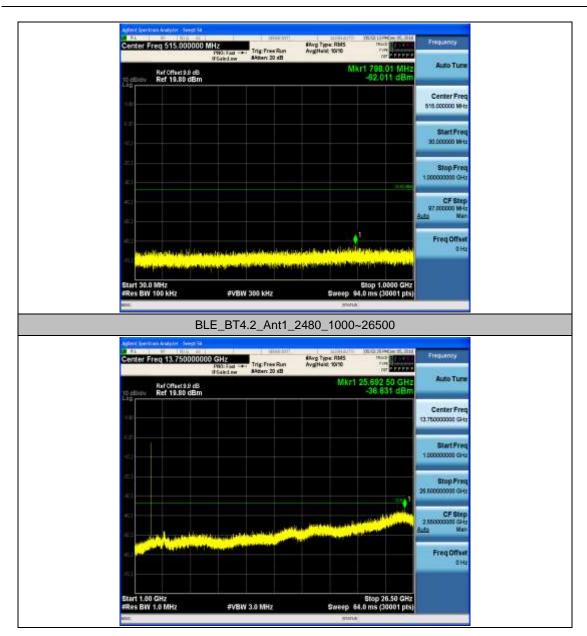














Appendix H: Radiated Spurious Emission & Spurious in

Restricted Band

Note: We tested all modes, but the data presented below is the worst case.

Below 1GHz, RBW = 100 kHz, VBW = 300 kHz.

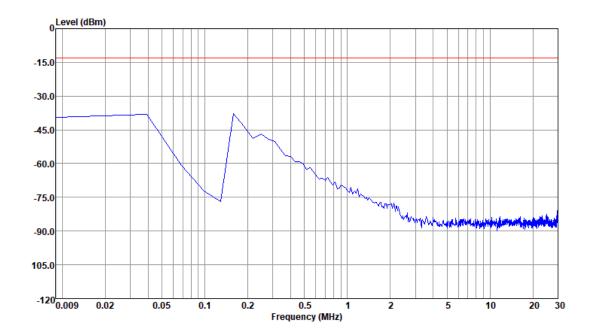
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz.

The simultaneous transmission has been considered



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

Note 1: The test results and plot for testing range of "9 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.

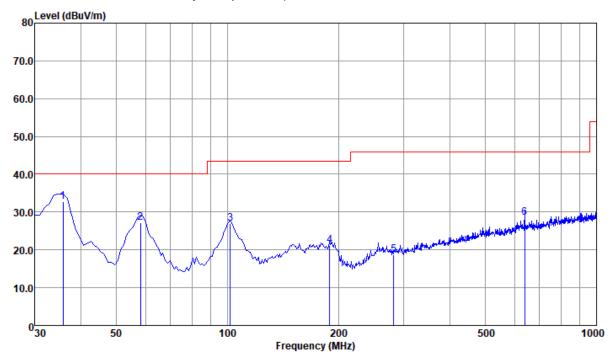




1.2 Part 2: Testing Range of "30 MHz to 1 GHz"

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).



	Freq	Level		Limit Line					Remark
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	——dB	
1 pp	35.82	32.78	-7.22	40.00	43.13	20.92	0.33	31.60	QP
2	58.13	27.15	-12.85	40.00	45.52	12.74	0.49	31.60	QP
3	101.78	26.95	-16.55	43.50	40.76	16.82	0.87	31.50	QP
4	189.08	21.19	-22.31	43.50	35.51	15.38	1.54	31.24	QP
5	282.20	18.79	-27.21	46.00	28.94	18.93	1.98	31.06	QP
6	638.19	28.57	-17.43	46.00	32.00	24.65	3.12	31.20	QP

Note:

1, Level =Reading level by receiver + Transd (Antenna factor + cable loss – preamplifier gain) The reading level is calculated by software which is not shown in the sheet.

2, Margin=Limit - Level



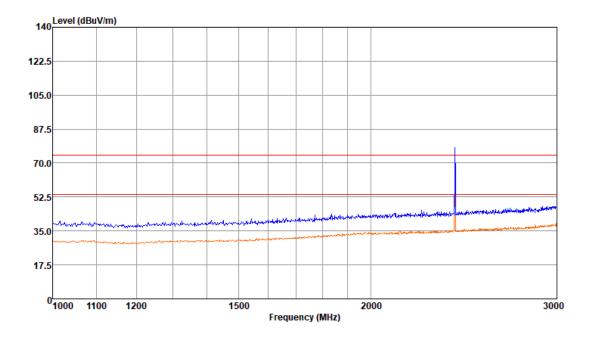
1.3 Part 3: Testing Range of "1GHz to 3GHz"

Note 1: The testing range of "1GHz to 3 GHz" is for checking radiated emissions located in restricted bands near the EUT operating bands.

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. Test Mode:

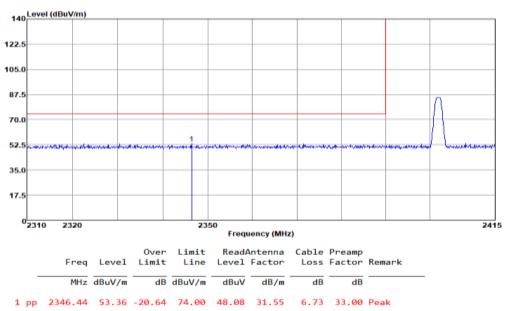
1.3.1Test Mode: TM1



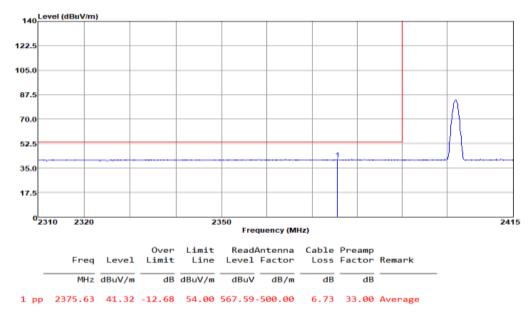


1.3.1.1 Channel 0

MEASUREMENT RESULT: PK Detector



MEASUREMENT RESULT: AV Detector



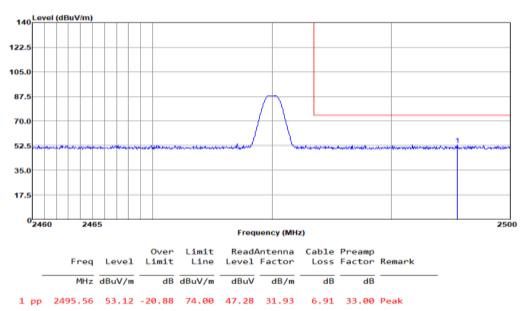
Note2:

- 1, Level =Reading level by receiver + Transd (Antenna factor + cable loss preamplifier gain) The reading level is calculated by software which is not shown in the sheet.
- 2, Margin=Limit Level

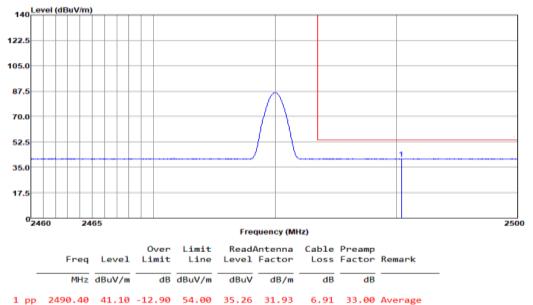


1.3.1.2 Channel 39

MEASUREMENT RESULT: PK Detector



MEASUREMENT RESULT: AV Detector



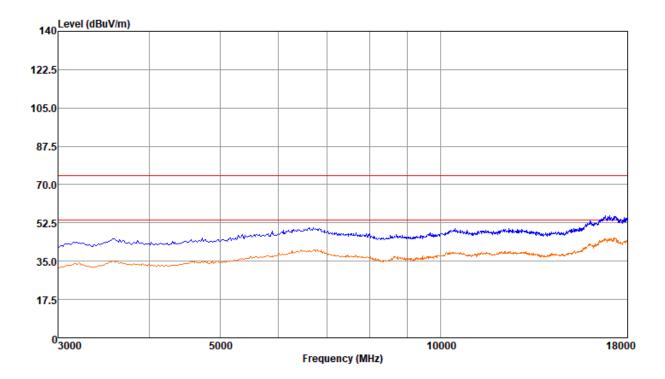
Note2:

- 1, Level =Reading level by receiver + Transd (Antenna factor + cable loss preamplifier gain) The reading level is calculated by software which is not shown in the sheet.
- 2, Margin=Limit Level



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

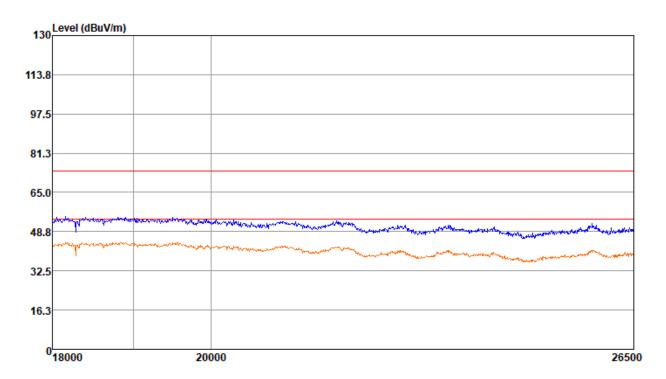
- Note 1: The test results and plot for testing range of "3 GHz to 18 GHz" showed as below is the WORST case for all Test Modes and Channels. This range will not be presented for each Test Mode and each Channel.
- Note 2: The testing range of "3 GHz to 18 GHz" is for checking radiated emissions located 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).





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

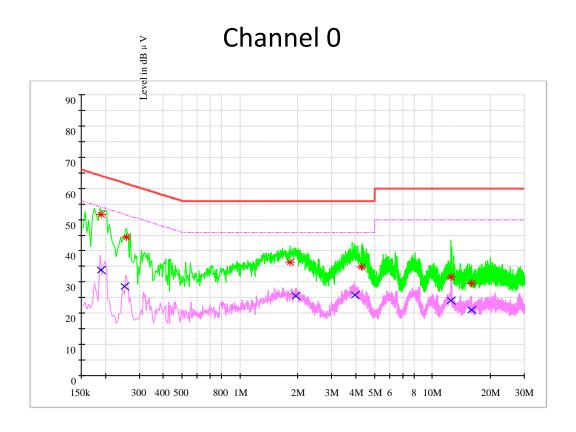
- Note 1: The test results and plot for testing range of "18 GHz to 26.5 GHz" showed as below is the WORST case for all Test Modes and Channels. This range will not be presented for each Test Mode and each Channel.
- Note 2: The testing range of "18 GHz to 26.5 GHz" is for checking radiated emissions 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 dBµV/m) and Average Limit (54 dBµV/m).





Appendix I: Conducted Emission at Power Port

Note: RBW =9 kHz, VBW = 30 kHz



MEASUREMENT RESULT: PK Detector

Frequency (MHz)	Level	Limit (dB μ V)	Transd. (dB)	Margin (dB)	Line	PE
0.189432	51.66	64.06	9.7	12.4	L1	FLO
0.255978	44.37	61.56	9.7	17.19	N	FLO
1.817547	36.34	56	9.8	19.66	L1	FLO
4.287246	34.8	56	10	21.2	L1	FLO
12.491764	31.53	60	10.8	28.47	L1	FLO
16.009874	29.62	60	11.4	30.38	N	FLO



MEASUREMENT RESULT: AV Detector

Frequency	Level	Limit	Transd.	Margin	Line	PE
(MHz)	(dB μ V)	(dB µ V)	(dB)	(dB)		
0.190566	33.76	54.01	20.25	9.7	L1	FLO
0.252388	28.56	51.67	23.11	9.7	N	FLO
1.958867	25.49	46	20.51	9.8	L1	FLO
3.938346	25.71	46	20.29	10.1	N	FLO
12.496564	24.15	50	25.85	10.8	L1	FLO
15.95576	21.12	50	28.88	11.3	N	FLO

Note2:

1, Level =Reading level by receiver + Transd (Antenna factor + cable loss – preamplifier gain) The reading level is calculated by software which is not shown in the sheet.

2, Margin=Limit - Level

END