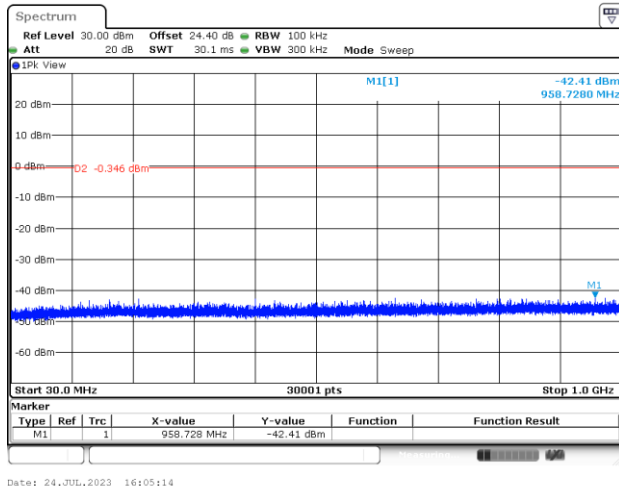


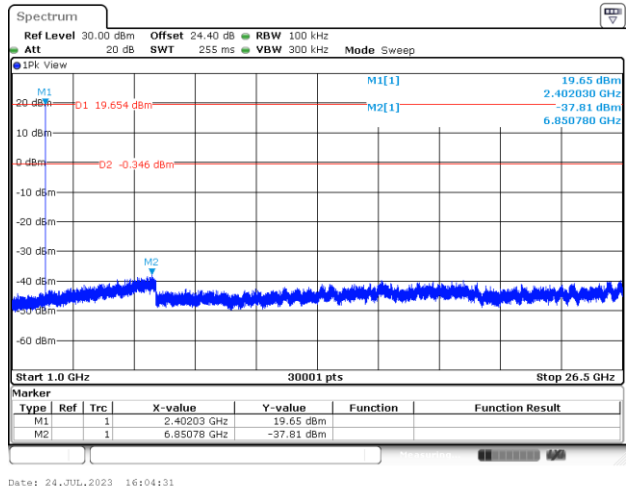
Spurious Emission

<1Mbps>

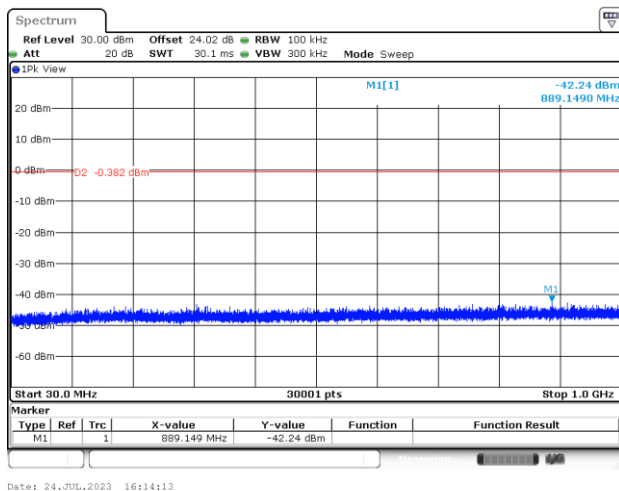
CSE Plot on Ch 00 between 30MHz ~ 1GHz



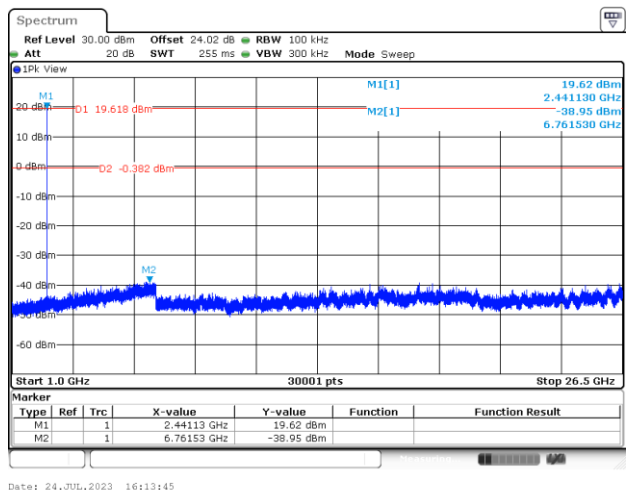
CSE Plot on Ch 00 between 1GHz ~ 26.5GHz



CSE Plot on Ch 39 between 30MHz ~ 1GHz



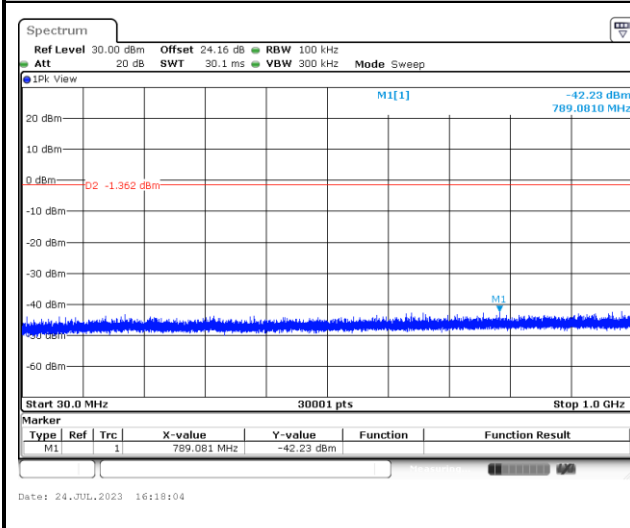
CSE Plot on Ch 39 between 1GHz ~ 26.5GHz



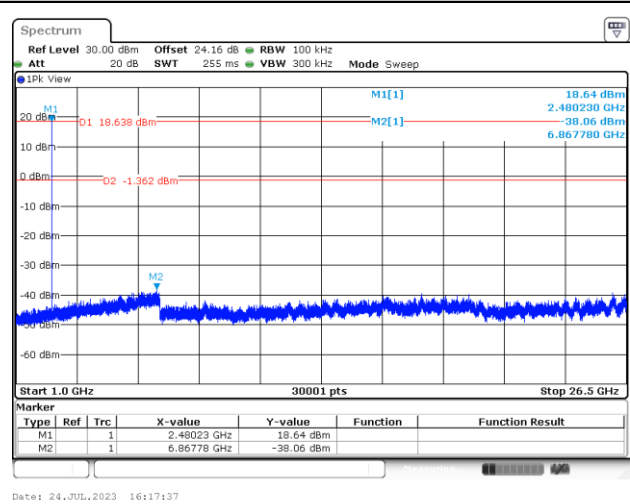


<1Mbps>

CSE Plot on Ch 78 between 30MHz ~ 1GHz

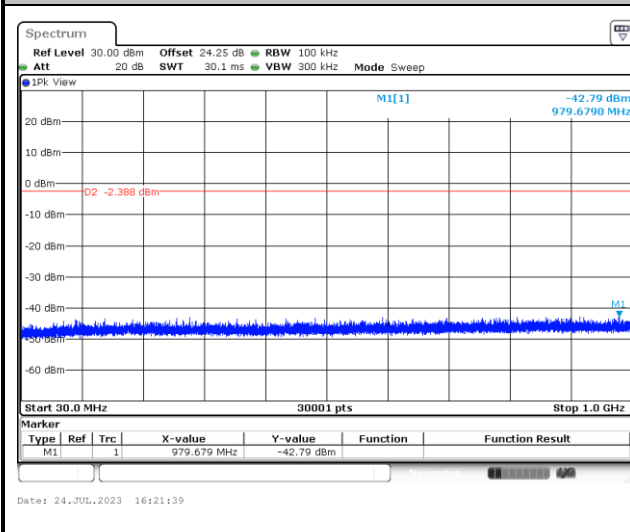


CSE Plot on Ch 78 between 1GHz ~ 26.5GHz

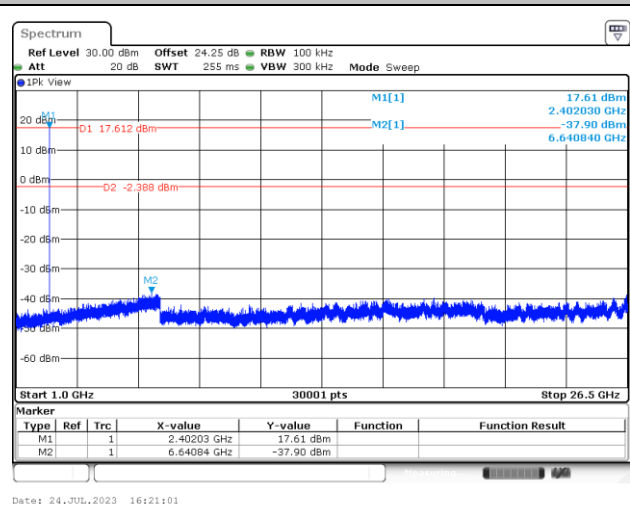


<2Mbps>

CSE Plot on Ch 00 between 30MHz ~ 1GHz



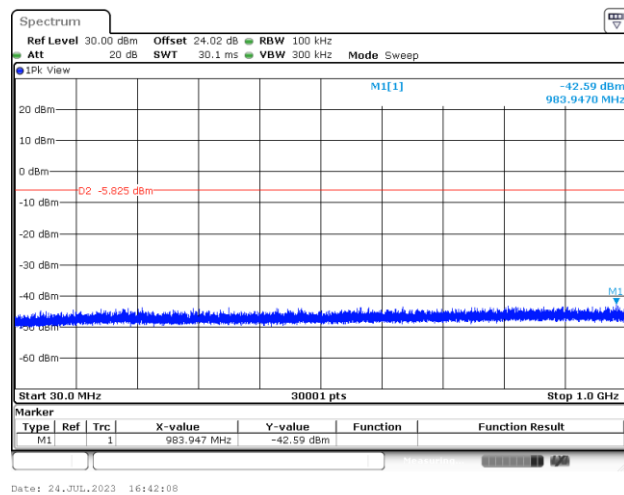
CSE Plot on Ch 00 between 1GHz ~ 26.5GHz



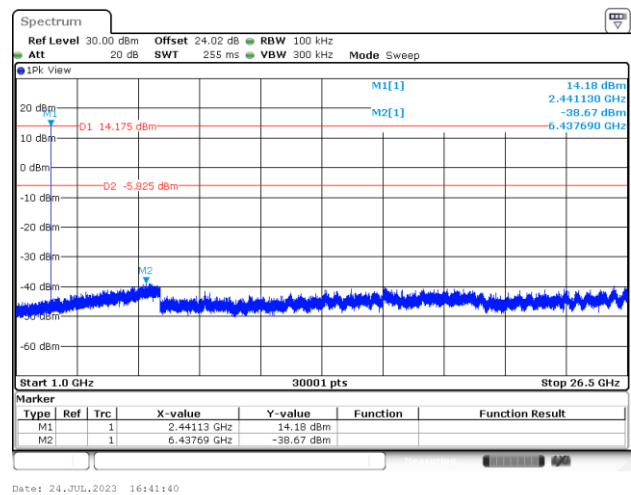


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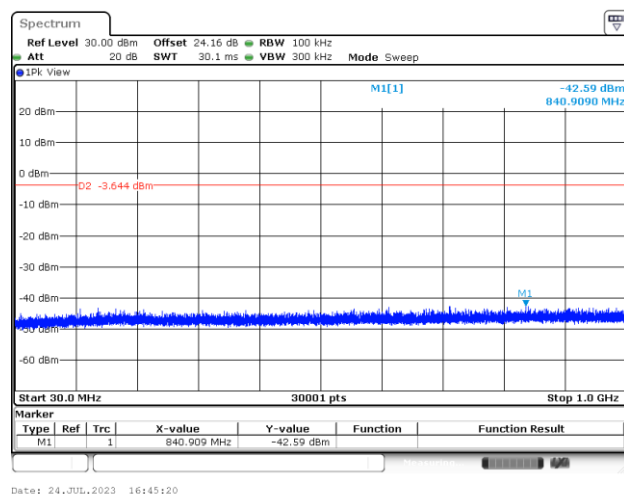
CSE Plot on Ch 39 between 30MHz ~ 1GHz



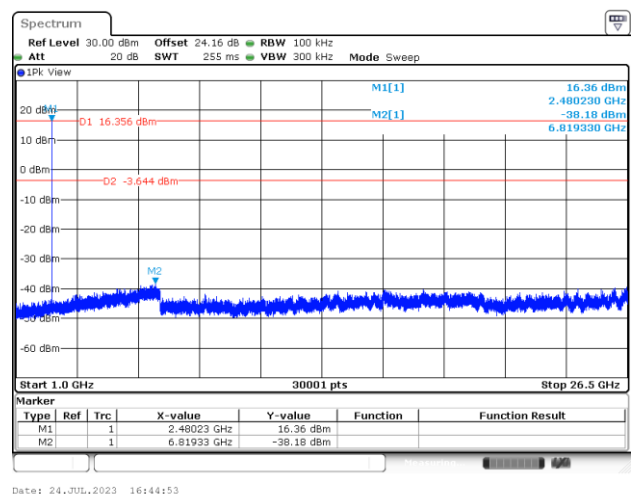
CSE Plot on Ch 39 between 1GHz ~ 26.5GHz



CSE Plot on Ch 78 between 30MHz ~ 1GHz

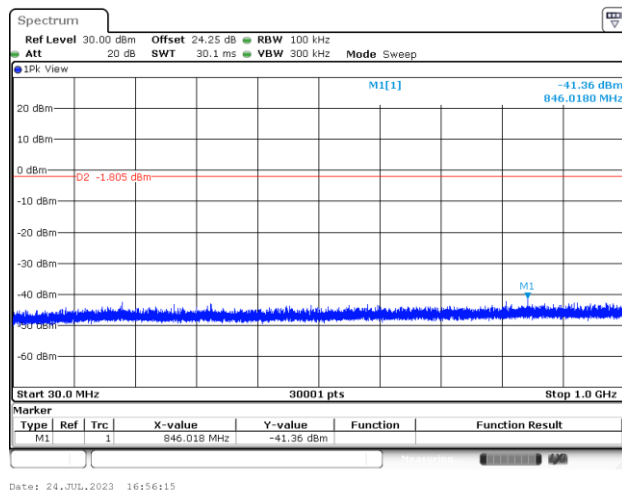


CSE Plot on Ch 78 between 1GHz ~ 26.5GHz

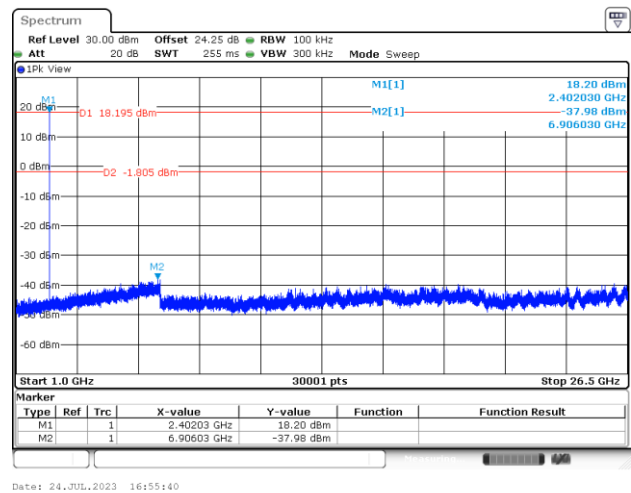


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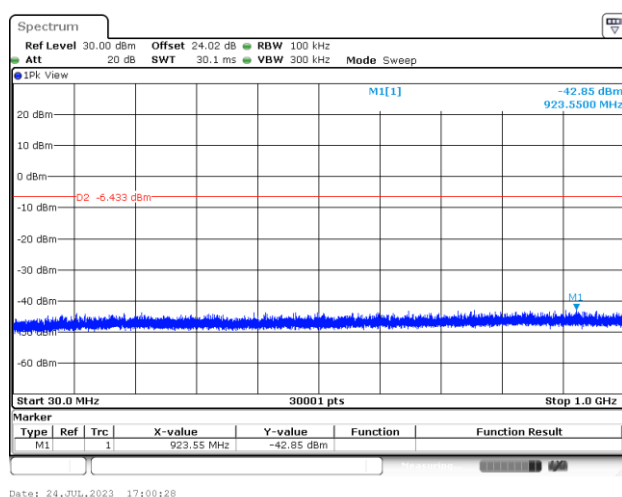
CSE Plot on Ch 00 between 30MHz ~ 1GHz



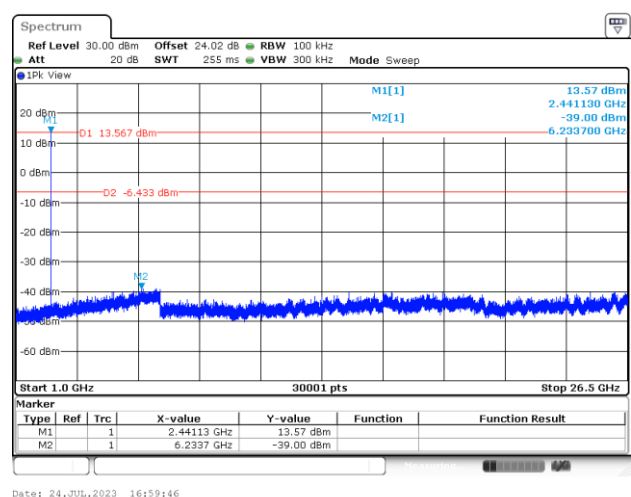
CSE Plot on Ch 00 between 1GHz ~ 26.5GHz



CSE Plot on Ch 39 between 30MHz ~ 1GHz

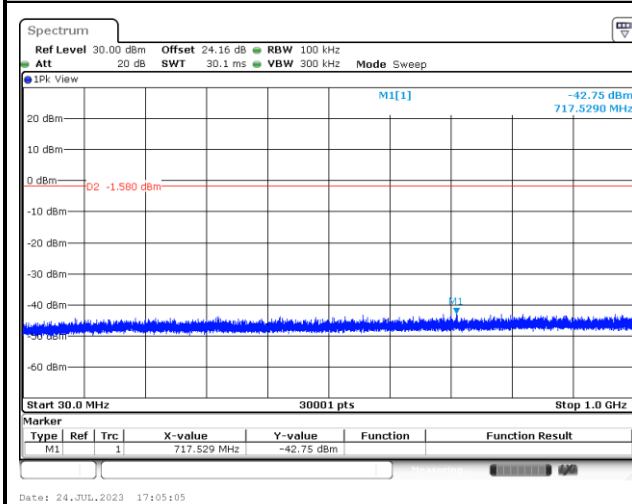


CSE Plot on Ch 39 between 1GHz ~ 26.5GHz

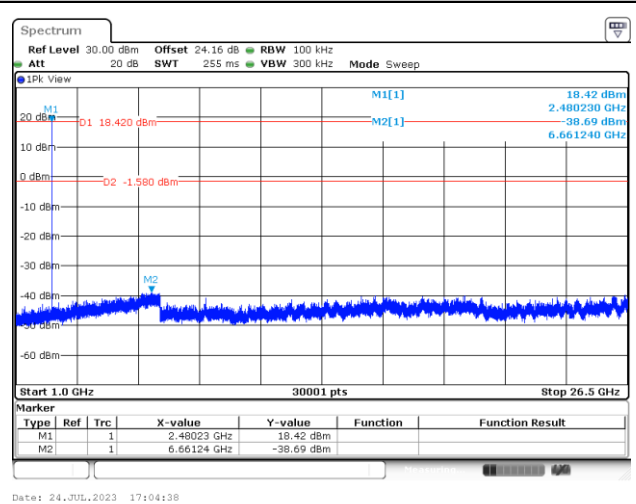


<3Mbps>

CSE Plot on Ch 78 between 30MHz ~ 1GHz

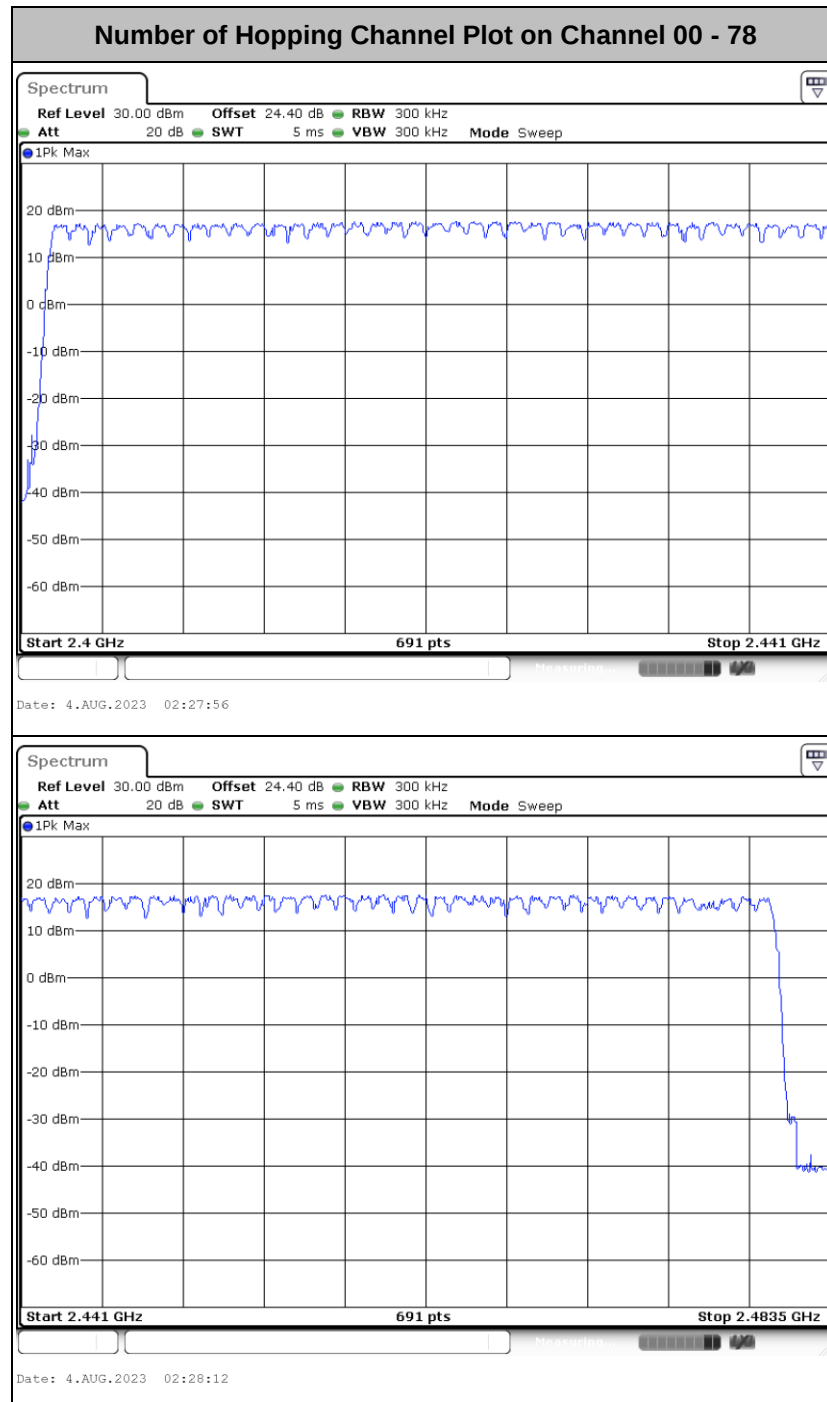


CSE Plot on Ch 78 between 1GHz ~ 26.5GHz



<HR 2Mbps Ant.3>

Number of Hopping Frequency

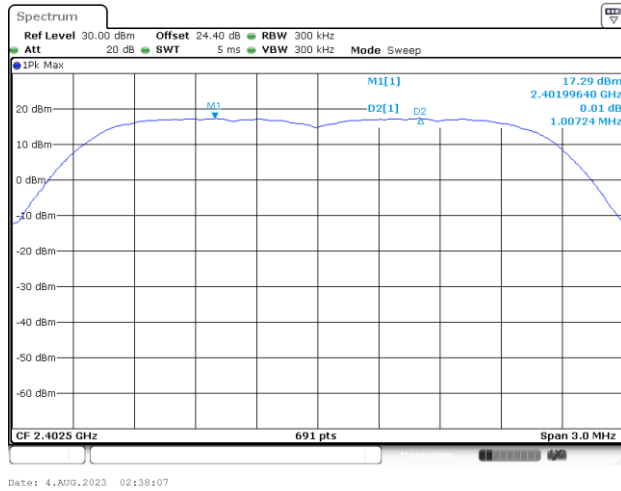




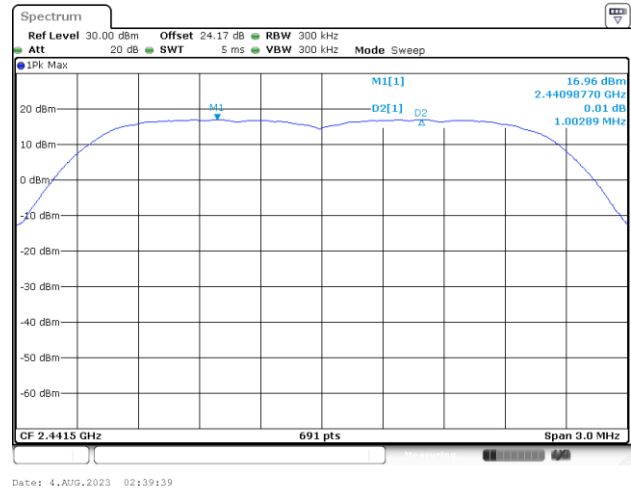
Hopping Channel Separation

<2Mbps>

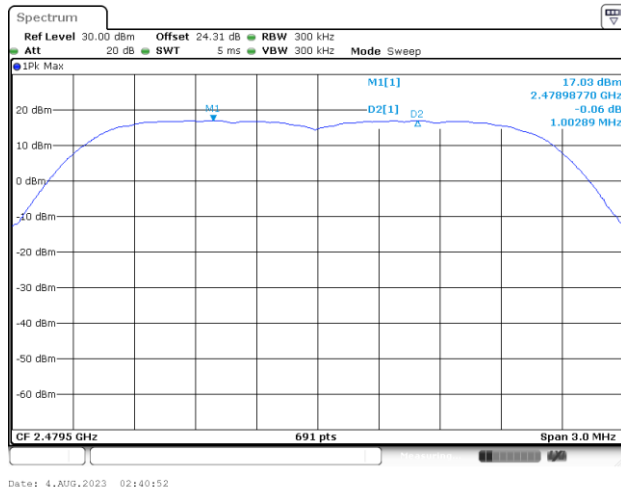
Channel Separation Plot on Channel 00 - 01



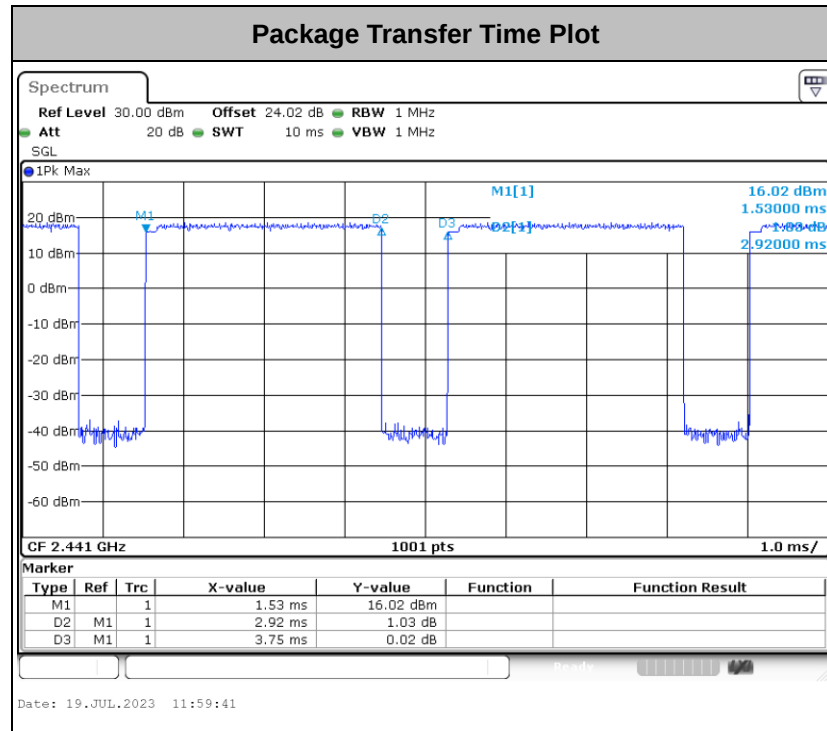
Channel Separation Plot on Channel 39 - 40



Channel Separation Plot on Channel 77 - 78



Dwell Time


Remark:

7. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels. With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit (0.4 x 79) (s), Hops Over Occupancy Time comes to (1600 / 6 / 79) x (0.4 x 79) = 106.67 hops.

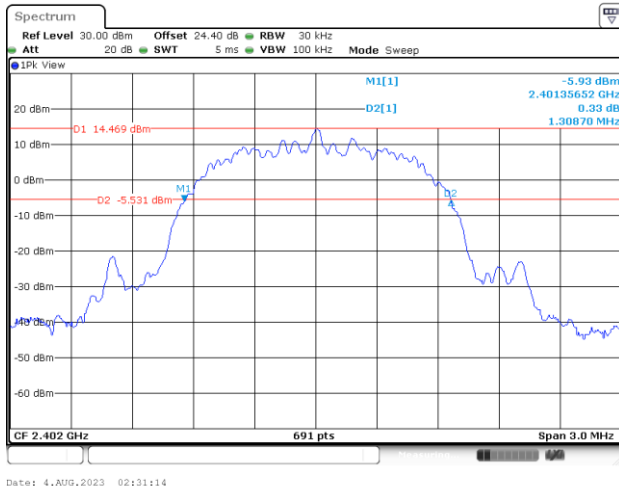
8. In AFH mode, hopping rate is 800 hops/s with 6 slots in 20 hopping channels. With channel hopping rate (800 / 6 / 20) in Occupancy Time Limit (0.4 x 20) (s), Hops Over Occupancy Time comes to (800 / 6 / 20) x (0.4 x 20) = 53.33 hops.

9. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

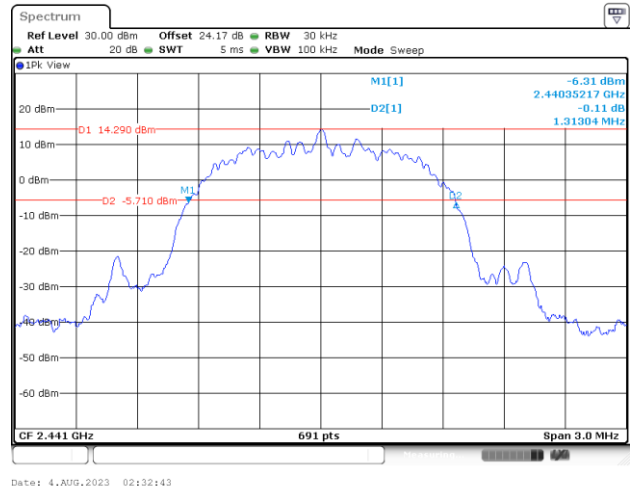
20dB Bandwidth

<2Mbps>

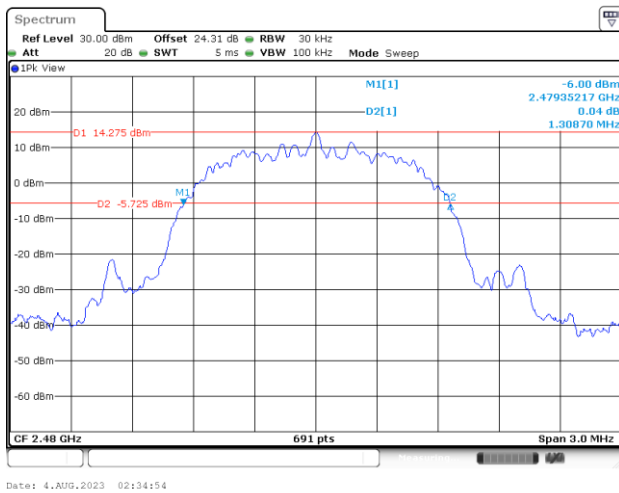
20 dB Bandwidth Plot on Channel 00



20 dB Bandwidth Plot on Channel 39

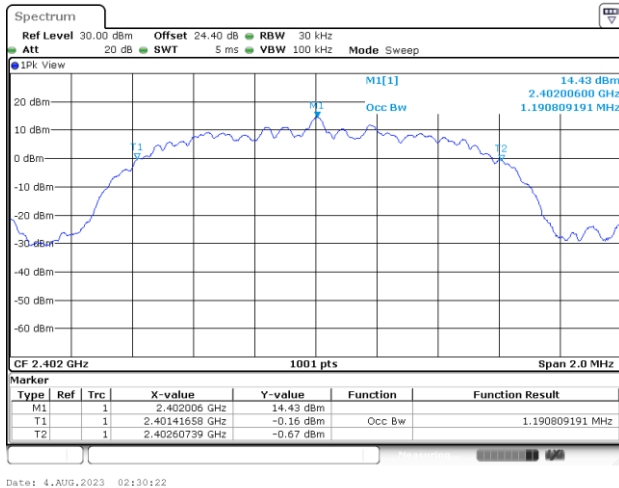
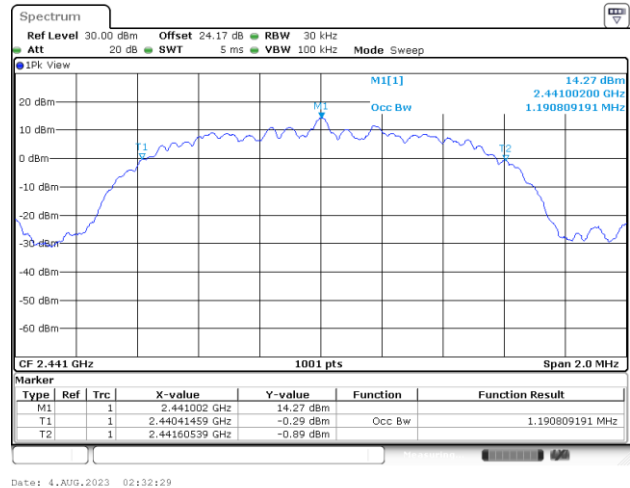
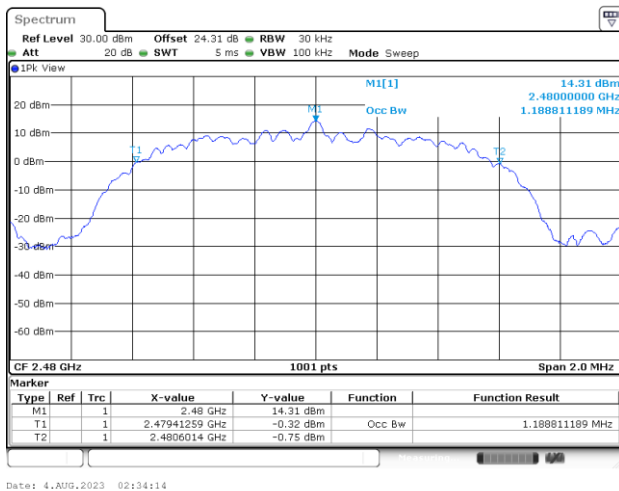


20 dB Bandwidth Plot on Channel 78



99% Occupied Bandwidth

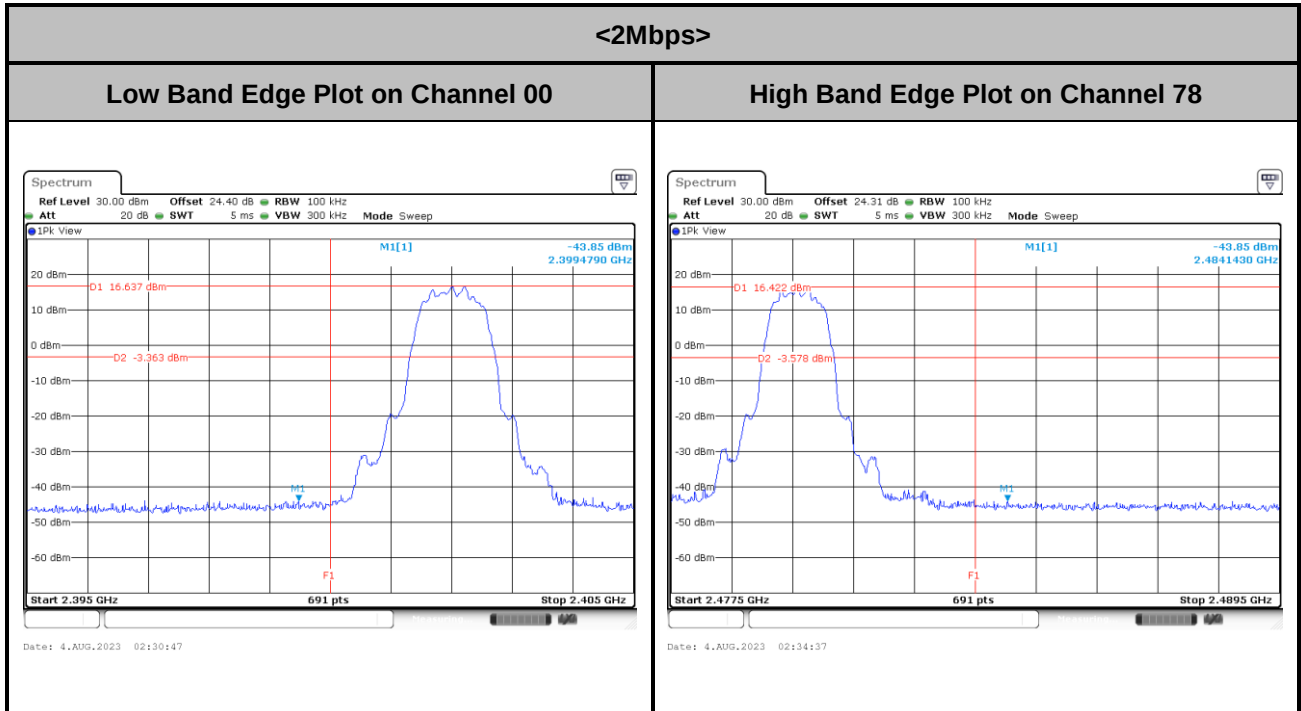
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99% Occupied Bandwidth on Channel 00**99% Occupied Bandwidth on Channel 39****99% Occupied Bandwidth on Channel 78**

Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



Band Edges

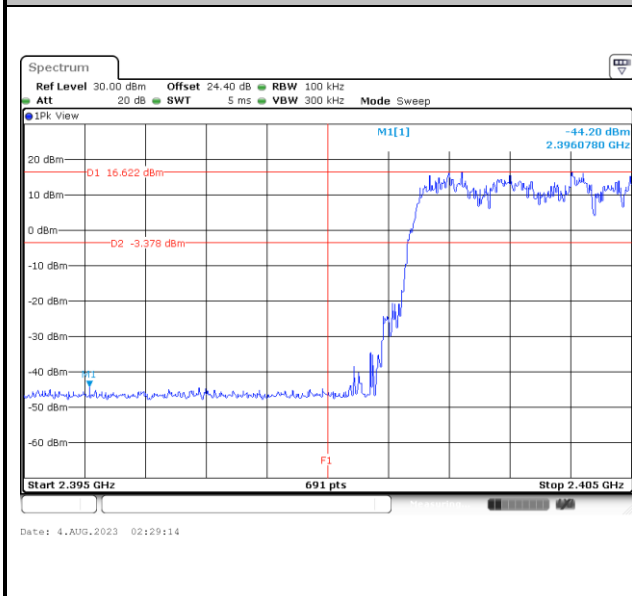




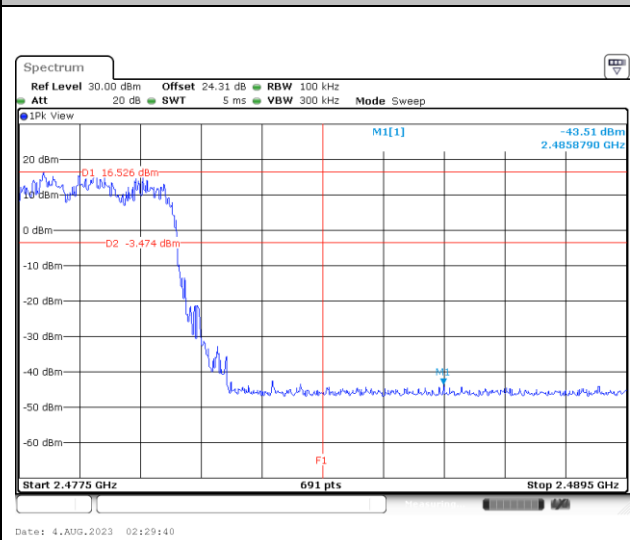
Hopping Mode Band Edges

<2Mbps>

Hopping Mode Low Band Edge Plot



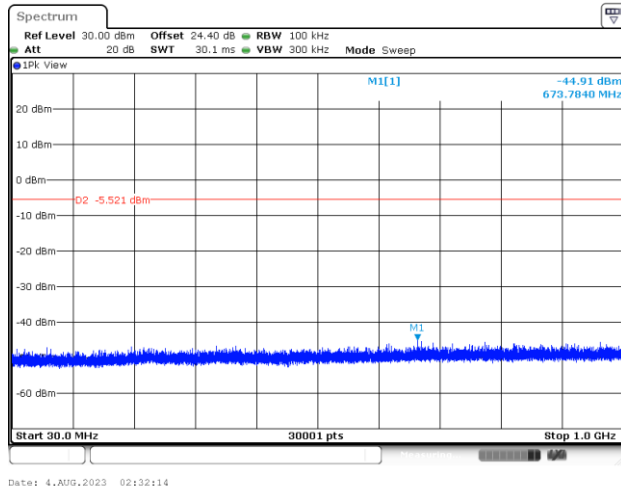
Hopping Mode High Band Edge Plot



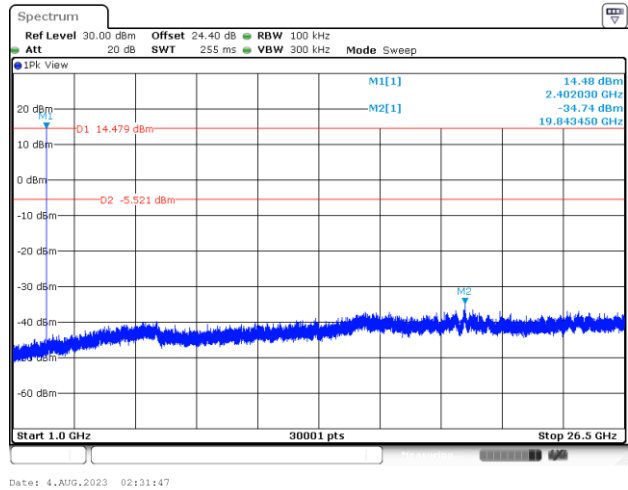
Spurious Emission

<2Mbps>

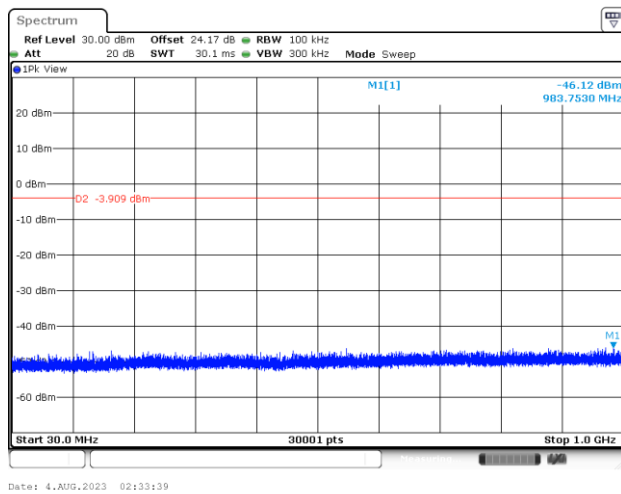
CSE Plot on Ch 00 between 30MHz ~ 1GHz



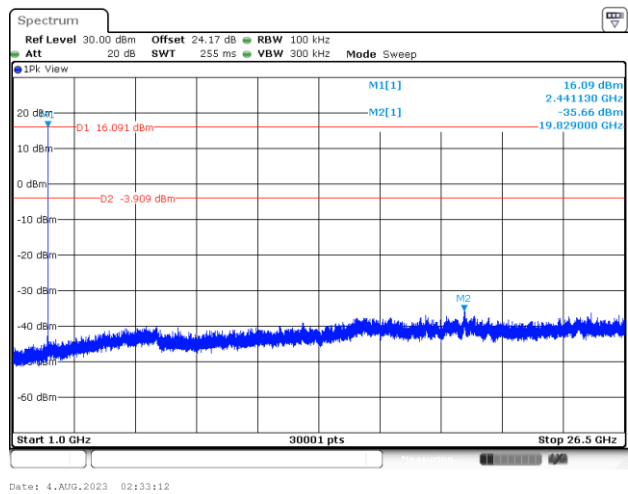
CSE Plot on Ch 00 between 1GHz ~ 26.5GHz



CSE Plot on Ch 39 between 30MHz ~ 1GHz

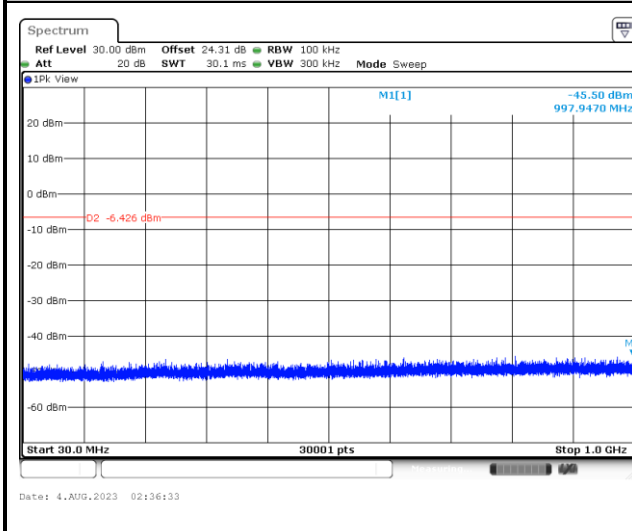


CSE Plot on Ch 39 between 1GHz ~ 26.5GHz

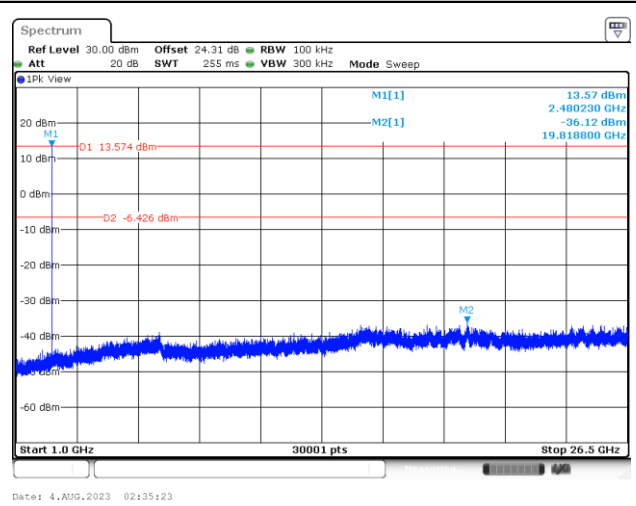


<2Mbps>

CSE Plot on Ch 78 between 30MHz ~ 1GHz



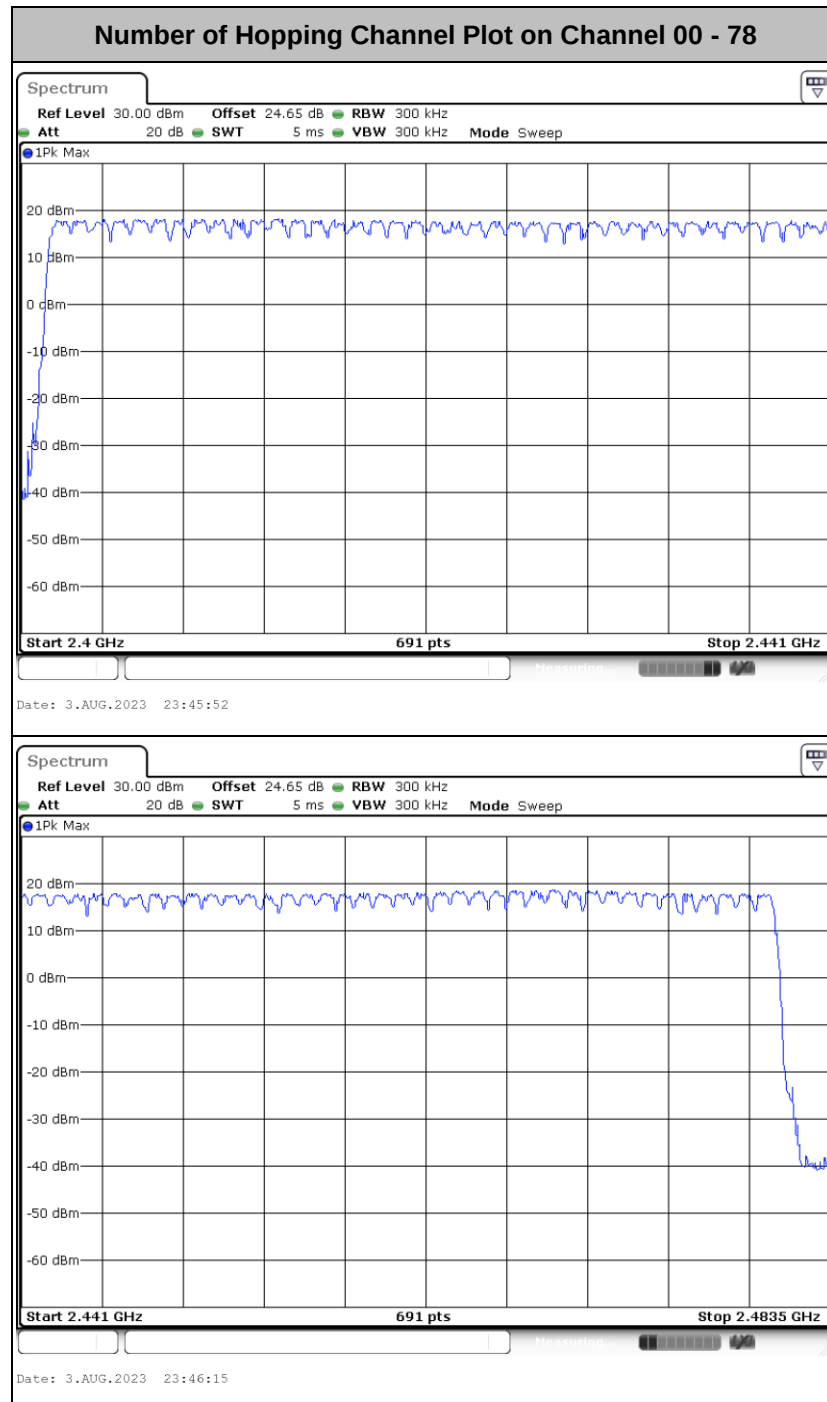
CSE Plot on Ch 78 between 1GHz ~ 26.5GHz





<HR 2Mbps Ant.4>

Number of Hopping Frequency

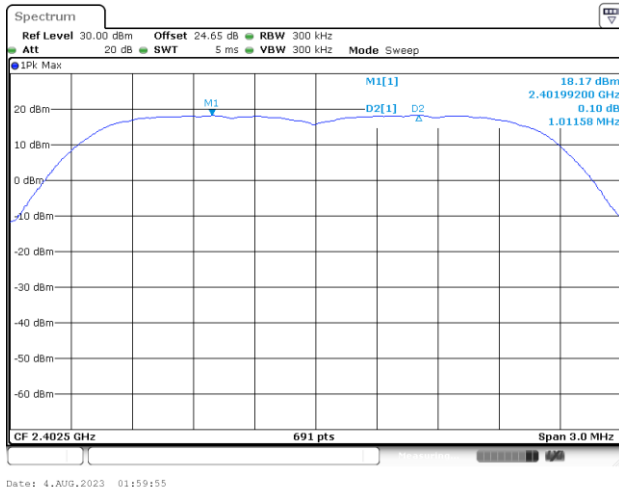




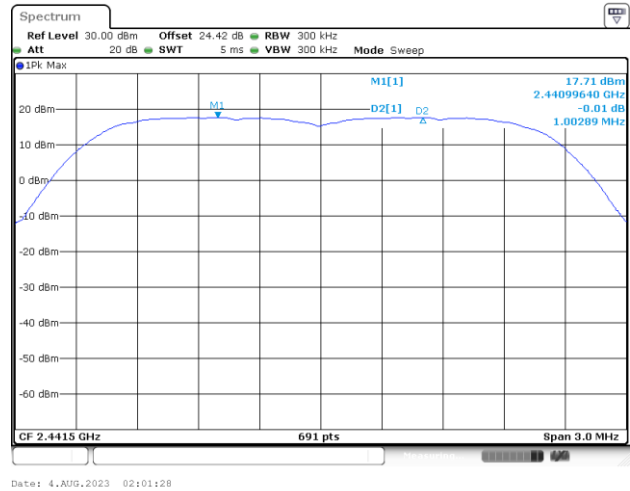
Hopping Channel Separation

<2Mbps>

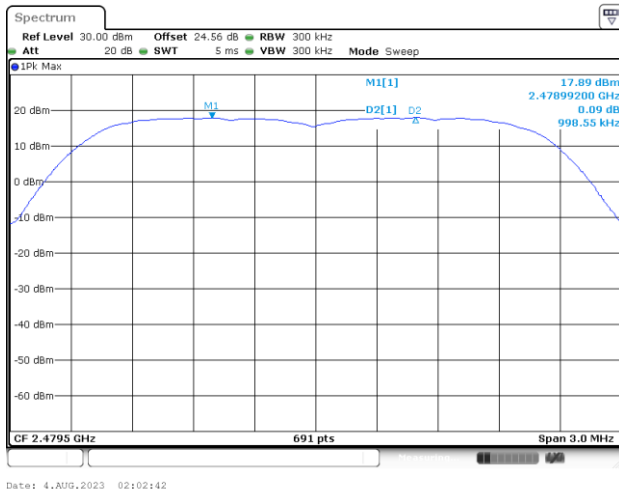
Channel Separation Plot on Channel 00 - 01



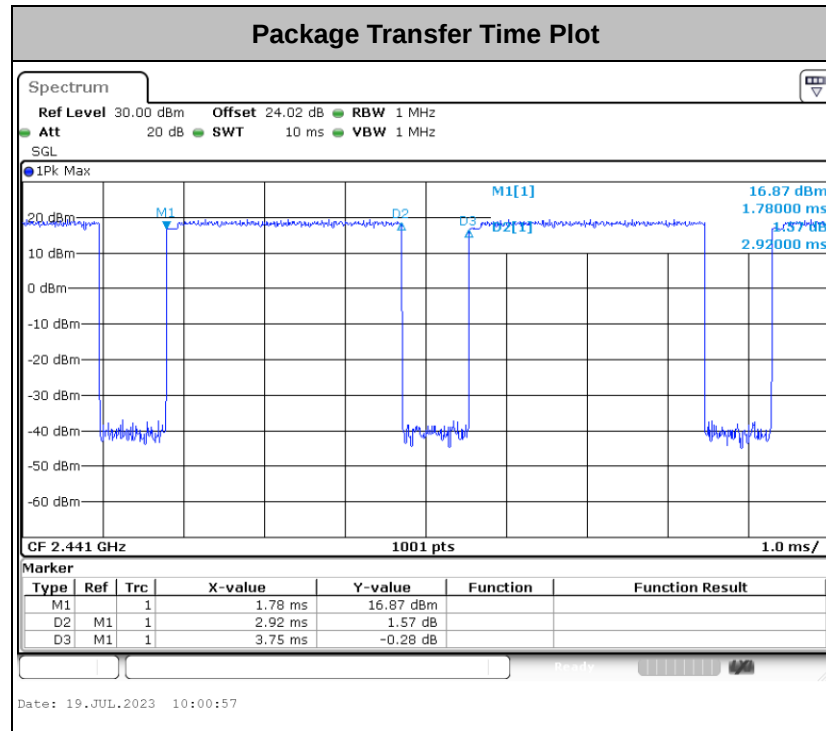
Channel Separation Plot on Channel 39 - 40



Channel Separation Plot on Channel 77 - 78



Dwell Time



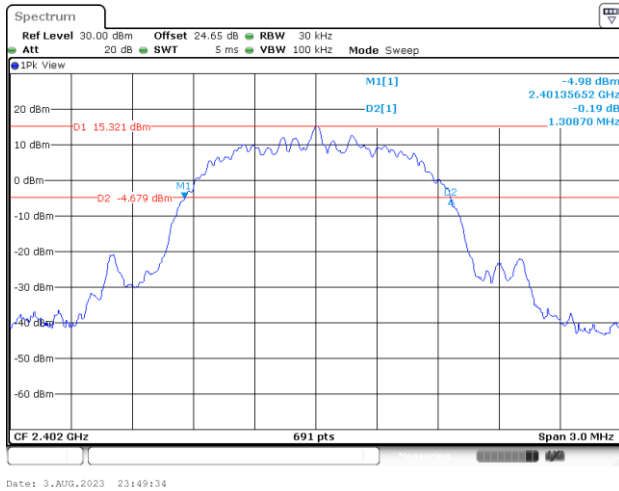
Remark:

1. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels. With channel hopping rate $(1600 / 6 / 79)$ in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600 / 6 / 79) \times (0.4 \times 79) = 106.67$ hops.
2. In AFH mode, hopping rate is 800 hops/s with 6 slots in 20 hopping channels. With channel hopping rate $(800 / 6 / 20)$ in Occupancy Time Limit (0.4×20) (s), Hops Over Occupancy Time comes to $(800 / 6 / 20) \times (0.4 \times 20) = 53.33$ hops.
3. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

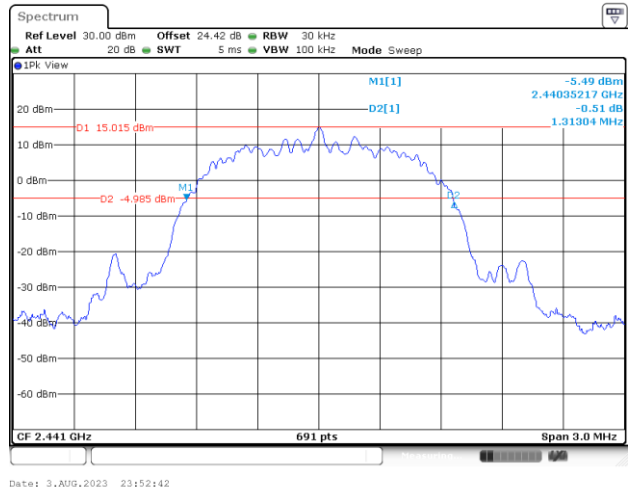
20dB Bandwidth

<2Mbps>

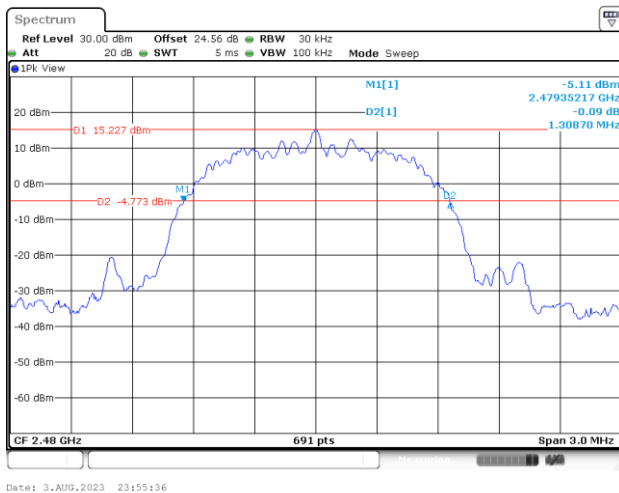
20 dB Bandwidth Plot on Channel 00



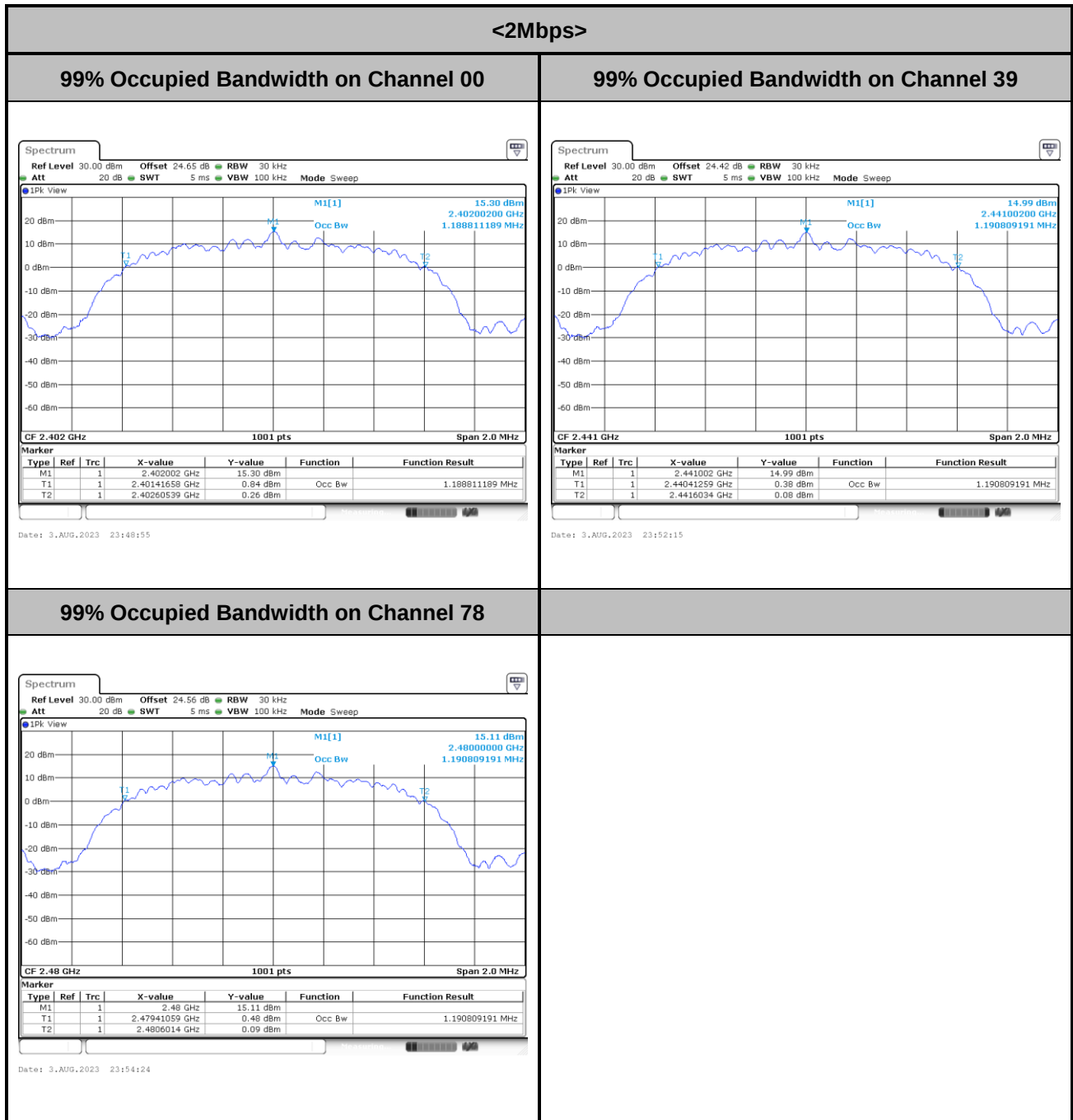
20 dB Bandwidth Plot on Channel 39



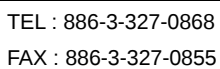
20 dB Bandwidth Plot on Channel 78



99% Occupied Bandwidth



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

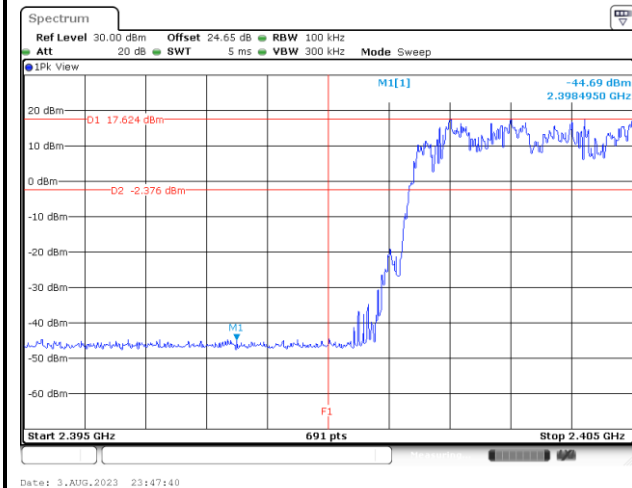




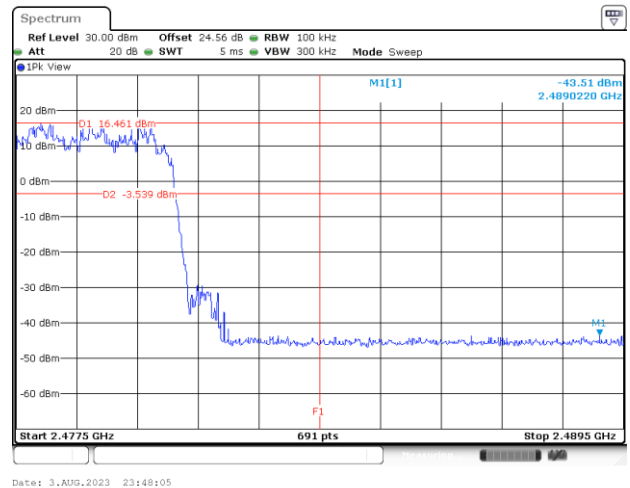
Hopping Mode Band Edges

<2Mbps>

Hopping Mode Low Band Edge Plot



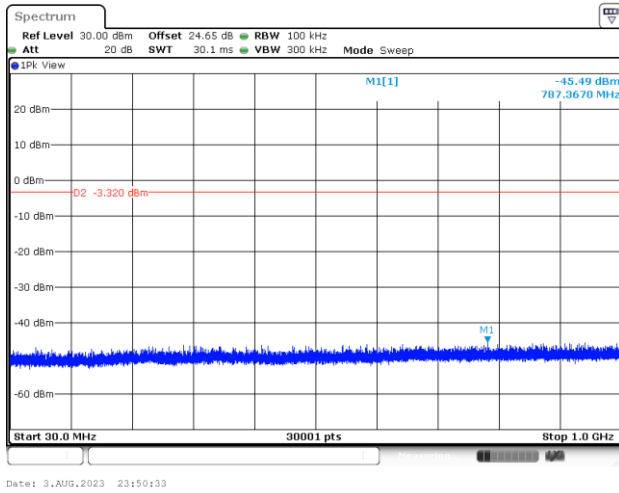
Hopping Mode High Band Edge Plot



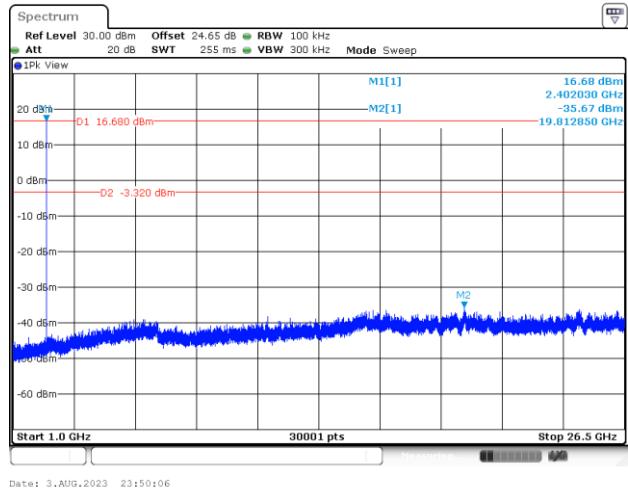
Spurious Emission

<2Mbps>

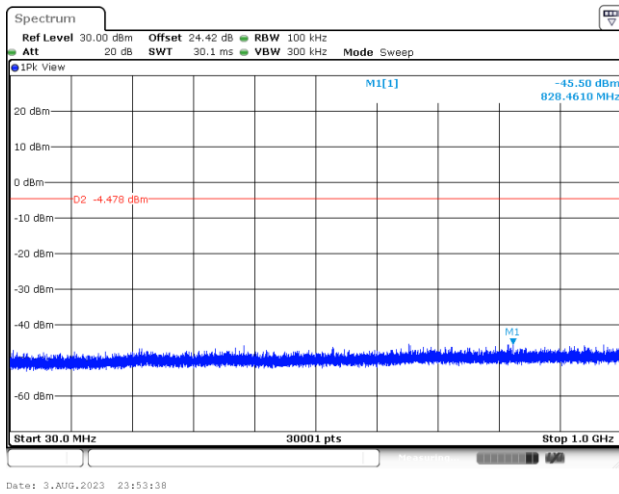
CSE Plot on Ch 00 between 30MHz ~ 1GHz



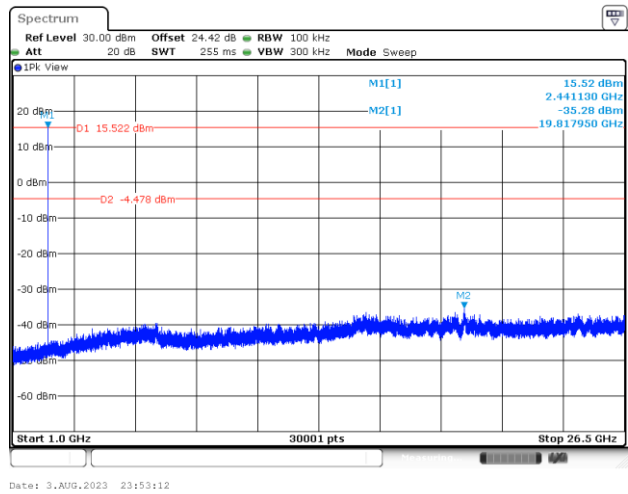
CSE Plot on Ch 00 between 1GHz ~ 26.5GHz



CSE Plot on Ch 39 between 30MHz ~ 1GHz

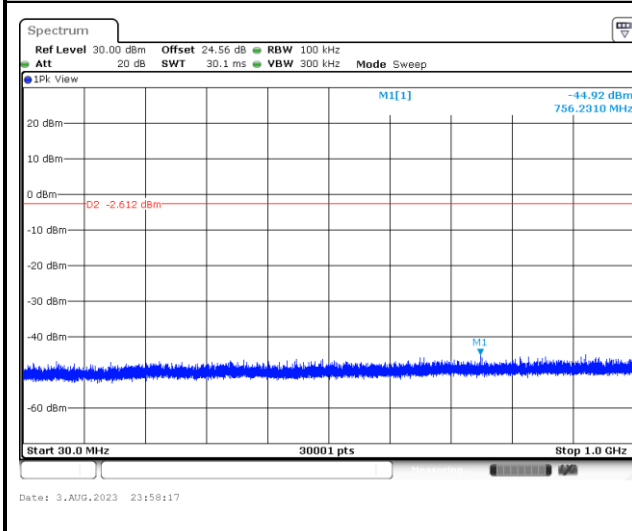


CSE Plot on Ch 39 between 1GHz ~ 26.5GHz

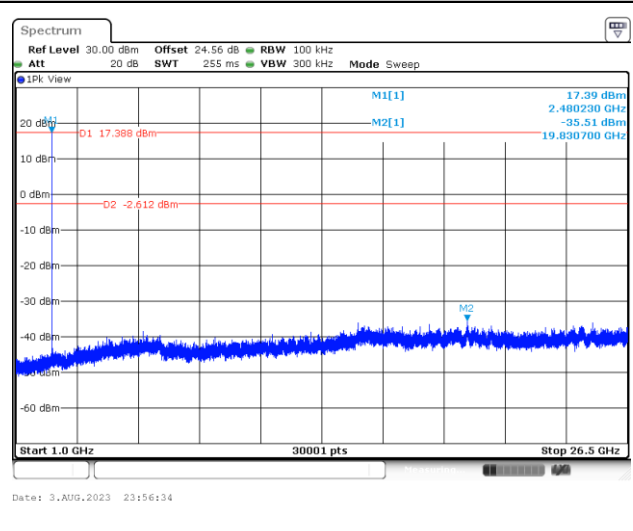


<2Mbps>

CSE Plot on Ch 78 between 30MHz ~ 1GHz



CSE Plot on Ch 78 between 1GHz ~ 26.5GHz





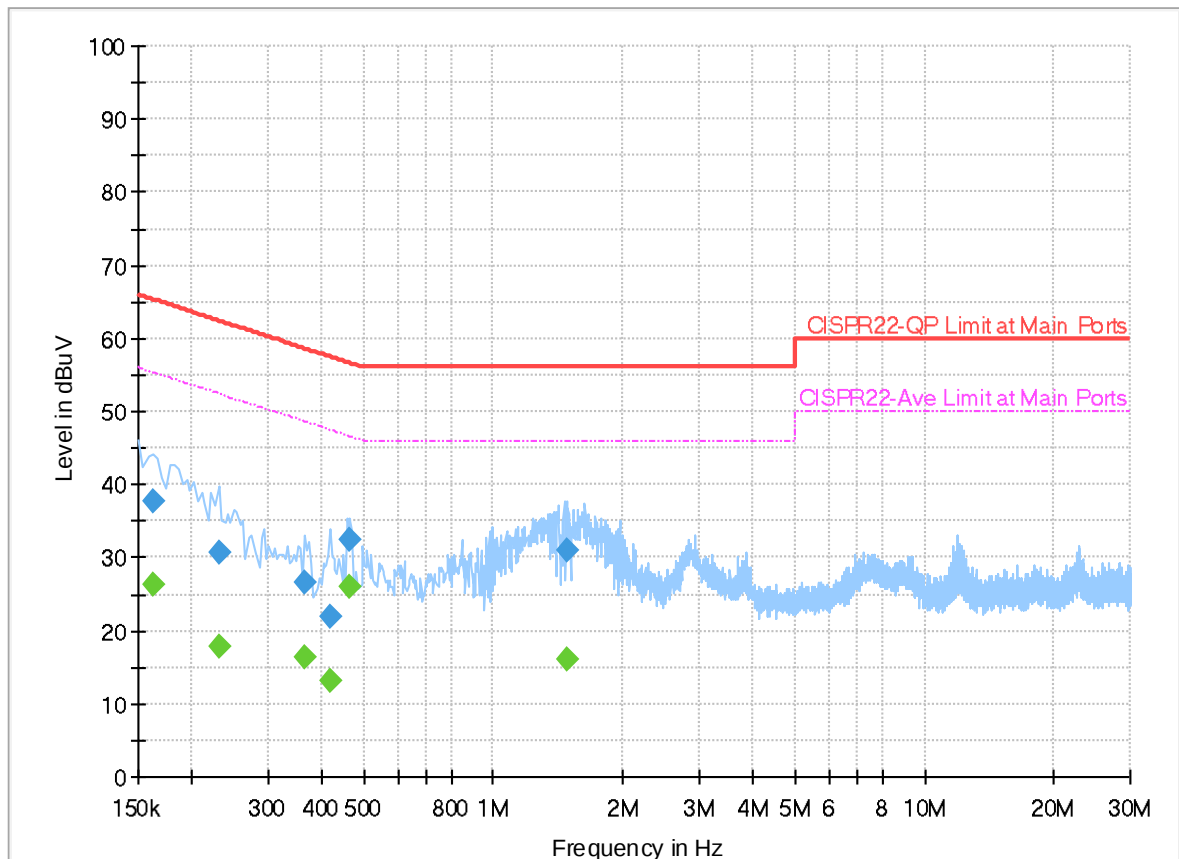
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	Temperature :	23.4~26.7°C
		Relative Humidity :	62.3~67.1%

EUT Information

Report NO : 380306
Test Mode : Mode 1
Test Voltage : 110Vac/60Hz
Phase : Line

Full Spectrum



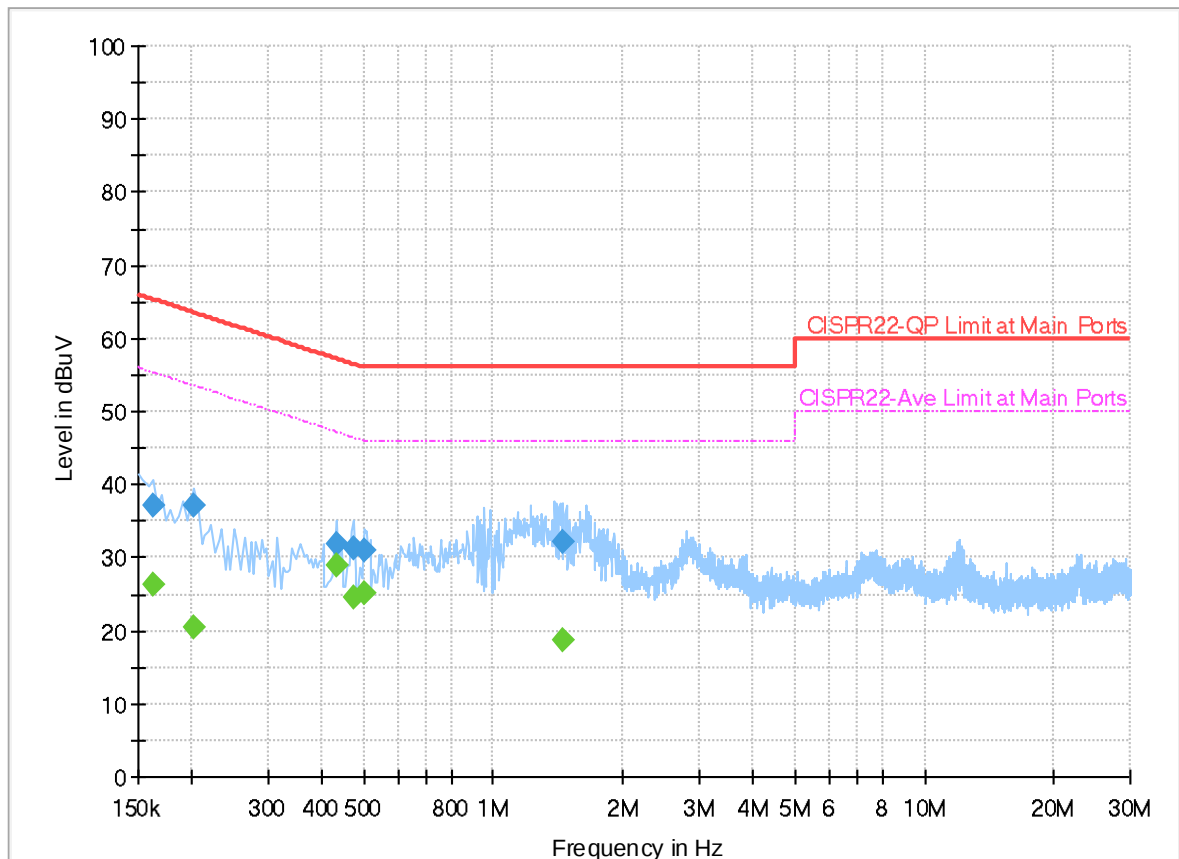
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.162000	---	26.30	55.36	29.06	L1	OFF	19.9
0.162000	37.83	---	65.36	27.53	L1	OFF	19.9
0.230000	---	17.71	52.45	34.74	L1	OFF	19.9
0.230000	30.65	---	62.45	31.80	L1	OFF	19.9
0.366000	---	16.49	48.59	32.10	L1	OFF	19.9
0.366000	26.61	---	58.59	31.98	L1	OFF	19.9
0.418000	---	13.15	47.49	34.34	L1	OFF	20.0
0.418000	22.01	---	57.49	35.48	L1	OFF	20.0
0.466000	---	25.96	46.59	20.63	L1	OFF	20.0
0.466000	32.58	---	56.59	24.01	L1	OFF	20.0
1.474000	---	16.11	46.00	29.89	L1	OFF	20.0
1.474000	30.99	---	56.00	25.01	L1	OFF	20.0

EUT Information

Report NO : 380306
Test Mode : Mode 1
Test Voltage : 110Vac/60Hz
Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.162000	---	26.22	55.36	29.14	N	OFF	19.9
0.162000	37.12	---	65.36	28.24	N	OFF	19.9
0.202000	---	20.38	53.53	33.15	N	OFF	19.9
0.202000	37.10	---	63.53	26.43	N	OFF	19.9
0.434000	---	29.07	47.18	18.11	N	OFF	20.0
0.434000	31.96	---	57.18	25.22	N	OFF	20.0
0.474000	---	24.55	46.44	21.89	N	OFF	20.0
0.474000	31.19	---	56.44	25.25	N	OFF	20.0
0.502000	---	25.05	46.00	20.95	N	OFF	20.0
0.502000	30.94	---	56.00	25.06	N	OFF	20.0
1.446000	---	18.75	46.00	27.25	N	OFF	20.0
1.446000	32.22	---	56.00	23.78	N	OFF	20.0



Appendix C. Radiated Spurious Emission

Test Engineer :	Bank Lin and Lu Wen-Kai	Temperature :	20~25°C
		Relative Humidity :	55~65%

<BR + EDR Ant.3>

2.4GHz 2400~2483.5MHz

BT (Band Edge @ 3m)

BT	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BT CH00 2402MHz		2325.75	49.91	-24.09	74	46.21	27.1	9.02	32.42	100	309	P	H
		2325.75	25.15	-28.85	54	-	-	-	-	-	-	A	H
	*	2402	113.56	-	-	109.87	27	9.16	32.47	100	309	P	H
	*	2402	88.8	-	-	-	-	-	-	-	-	A	H
													H
													H
		2361.24	49.8	-24.2	74	46.16	27	9.09	32.45	400	99	P	V
		2361.24	25.04	-28.96	54	-	-	-	-	-	-	A	V
	*	2402	108.77	-	-	105.08	27	9.16	32.47	400	99	P	V
	*	2402	84.01	-	-	-	-	-	-	-	-	A	V
													V
BT CH 39 2441MHz		2323.58	49.89	-24.11	74	46.2	27.1	9.01	32.42	112	249	P	H
		2323.58	25.13	-28.87	54	-	-	-	-	-	-	A	H
	*	2441	115.48	-	-	111.93	26.81	9.24	32.5	112	249	P	H
	*	2441	90.72	-	-	-	-	-	-	-	-	A	H
		2484.32	50.13	-23.87	74	46.44	26.9	9.32	32.53	112	249	P	H
		2484.32	25.37	-28.63	54	-	-	-	-	-	-	A	H
		2380.42	49.91	-24.09	74	46.25	27	9.12	32.46	397	98	P	V
		2380.42	25.15	-28.85	54	-	-	-	-	-	-	A	V
	*	2441	111.53	-	-	107.98	26.81	9.24	32.5	397	98	P	V
	*	2441	86.77	-	-	-	-	-	-	-	-	A	V
		2494.54	50.03	-23.97	74	46.28	26.95	9.34	32.54	397	98	P	V
		2494.54	25.27	-28.73	54	-	-	-	-	-	-	A	V



BT	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BT CH 78 2480MHz	*	2480	117.02	-	-	113.33	26.9	9.32	32.53	100	276	P	H
	*	2480	92.26	-	-	-	-	-	-	-	-	A	H
		2483.56	56.89	-17.11	74	53.2	26.9	9.32	32.53	100	276	P	H
		2483.56	32.13	-21.87	54	-	-	-	-	-	-	A	H
													H
													H
	*	2480	112.26	-	-	108.57	26.9	9.32	32.53	340	90	P	V
	*	2480	87.5	-	-	-	-	-	-	-	-	A	V
		2484	52.75	-21.25	74	49.06	26.9	9.32	32.53	340	90	P	V
		2484	27.99	-26.01	54	-	-	-	-	-	-	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**2.4GHz 2400~2483.5MHz****BT (Harmonic @ 3m)**

BT	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BT CH 00 2402MHz		4804	45.53	-28.47	74	32.29	32.32	14.51	33.59	-	-	P	H
		4804	20.77	-33.23	54	-	-	-	-	-	-	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4804	45.9	-28.1	74	32.66	32.32	14.51	33.59	-	-	P	V
		4804	21.14	-32.86	54	-	-	-	-	-	-	A	V
													V
													V
													V
													V
													V
													V
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													V
													V
													V
													V



BT	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BT CH 39 2441MHz		4882	45.93	-28.07	74	32.49	32.56	14.45	33.57	-	-	P	H
		4882	21.17	-32.83	54	-	-	-	-	-	-	A	H
		7323	50.61	-23.39	74	32.48	37.5	16.58	35.95	-	-	P	H
		7323	25.85	-28.15	54	-	-	-	-	-	-	A	H
													H
													H
													H
													H
													H
													H
													H
													H
		4882	46.71	-27.29	74	33.27	32.56	14.45	33.57	-	-	P	V
		4882	21.95	-32.05	54	-	-	-	-	-	-	A	V
		7323	51.11	-22.89	74	32.98	37.5	16.58	35.95	-	-	P	V
		7323	26.35	-27.65	54	-	-	-	-	-	-	A	V
													V
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													V
													V

BT	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BT CH 78 2480MHz		4960	46.48	-27.52	74	32.94	32.7	14.4	33.56	-	-	P	H
		4960	21.72	-32.28	54	-	-	-	-	-	-	A	H
		7440	50.66	-23.34	74	32.5	37.32	16.88	36.04	-	-	P	H
		7440	25.9	-28.1	54	-	-	-	-	-	-	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4960	47.03	-26.97	74	33.49	32.7	14.4	33.56	-	-	P	V
		4960	22.27	-31.73	54	-	-	-	-	-	-	A	V
		7440	51.36	-22.64	74	33.2	37.32	16.88	36.04	-	-	P	V
		7440	26.6	-27.4	54	-	-	-	-	-	-	A	V
													V
													V
													V
													V
													V
													V
													V
												V	
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												
	3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												

Emission above 18GHz

2.4GHz BT (SHF)

[illegible]

Emission below 1GHz

2.4GHz BT (LF)

[illegible]



<BR + EDR Ant.4>

2.4GHz 2400~2483.5MHz

BT (Band Edge @ 3m)

BT	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BT CH00 2402MHz		2387.595	50.26	-23.74	74	46.66	26.92	9.14	32.46	120	88	P	H
		2387.595	25.5	-28.5	54	-	-	-	-	-	-	A	H
	*	2402	115.52	-	-	111.83	27	9.16	32.47	120	88	P	H
	*	2402	90.76	-	-	-	-	-	-	-	-	A	H
													H
													H
		2353.89	50.7	-23.3	74	47.07	27	9.07	32.44	360	106	P	V
		2353.89	25.94	-28.06	54	-	-	-	-	-	-	A	V
	*	2402	112.68	-	-	108.99	27	9.16	32.47	360	106	P	V
	*	2402	87.92	-	-	-	-	-	-	-	-	A	V
													V
													V
BT CH 39 2441MHz		2385.74	49.95	-24.05	74	46.34	26.94	9.13	32.46	117	88	P	H
		2385.74	25.19	-28.81	54	-	-	-	-	-	-	A	H
	*	2441	115.57	-	-	112.02	26.81	9.24	32.5	117	88	P	H
	*	2441	90.81	-	-	-	-	-	-	-	-	A	H
		2497.83	49.98	-24.02	74	46.19	26.98	9.35	32.54	117	88	P	H
		2497.83	25.22	-28.78	54	-	-	-	-	-	-	A	H
		2380.42	49.97	-24.03	74	46.31	27	9.12	32.46	396	116	P	V
		2380.42	25.21	-28.79	54	-	-	-	-	-	-	A	V
	*	2441	113.23	-	-	109.68	26.81	9.24	32.5	396	116	P	V
	*	2441	88.47	-	-	-	-	-	-	-	-	A	V
		2489.15	49.75	-24.25	74	46.05	26.9	9.33	32.53	396	116	P	V
		2489.15	24.99	-29.01	54	-	-	-	-	-	-	A	V



BT	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BT CH 78 2480MHz	*	2480	116.36	-	-	112.67	26.9	9.32	32.53	144	88	P	H
	*	2480	91.6	-	-	-	-	-	-	-	-	A	H
		2483.76	56.07	-17.93	74	52.38	26.9	9.32	32.53	144	88	P	H
		2483.76	31.31	-22.69	54	-	-	-	-	-	-	A	H
													H
													H
	*	2480	113.17	-	-	109.48	26.9	9.32	32.53	381	120	P	V
	*	2480	88.41	-	-	-	-	-	-	-	-	A	V
		2483.6	53.87	-20.13	74	50.18	26.9	9.32	32.53	381	120	P	V
		2483.6	29.11	-24.89	54	-	-	-	-	-	-	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**2.4GHz 2400~2483.5MHz****BT (Harmonic @ 3m)**

BT	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BT CH 00 2402MHz		4804	46.04	-27.96	74	32.8	32.32	14.51	33.59	-	-	P	H
		4804	21.28	-32.72	54	-	-	-	-	-	-	A	H
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		4804	47.44	-26.56	74	34.2	32.32	14.51	33.59	-	-	P	V
		4804	22.68	-31.32	54	-	-	-	-	-	-	A	V
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BT	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BT CH 39 2441MHz		4882	46.64	-27.36	74	33.2	32.56	14.45	33.57	-	-	P	H
		4882	21.88	-32.12	54	-	-	-	-	-	-	A	H
		7323	52.33	-21.67	74	34.2	37.5	16.58	35.95	-	-	P	H
		7323	27.57	-26.43	54	-	-	-	-	-	-	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4882	47.63	-26.37	74	34.19	32.56	14.45	33.57	-	-	P	V
		4882	22.87	-31.13	54	-	-	-	-	-	-	A	V
		7323	52.4	-21.6	74	34.27	37.5	16.58	35.95	-	-	P	V
		7323	27.64	-26.36	54	-	-	-	-	-	-	A	V
													V
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													V

BT	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BT CH 78 2480MHz		4960	46.85	-27.15	74	33.31	32.7	14.4	33.56	-	-	P	H
		4960	22.09	-31.91	54	-	-	-	-	-	-	A	H
		7440	55.21	-18.79	74	37.05	37.32	16.88	36.04	100	61	P	H
		7440	30.45	-23.55	54	-	-	-	-	-	-	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4960	46.66	-27.34	74	33.12	32.7	14.4	33.56	-	-	P	V
		4960	21.9	-32.1	54	-	-	-	-	-	-	A	V
		7440	53.41	-20.59	74	35.25	37.32	16.88	36.04	-	-	P	V
		7440	28.65	-25.35	54	-	-	-	-	-	-	A	V
													V
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												V	
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												
	3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												

Emission above 18GHz

2.4GHz BT (SHF)

BT	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz BT SHF		24685	45.18	-28.82	74	43.34	39.54	22.37	60.07	-	-	P	H
													H
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Emission below 1GHz

2.4GHz BT (LF)

BT	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz BT LF		30.97	23.67	-16.33	40	30.77	24.62	1.04	32.76	-	-	P	H
		55.22	26.44	-13.56	40	45.17	12.28	1.72	32.73	-	-	P	H
		119.24	29.09	-14.41	43.5	42.08	17.35	2.38	32.72	-	-	P	H
		176.47	21.81	-21.69	43.5	36.55	15.05	2.89	32.68	-	-	P	H
		575.14	28.64	-17.36	46	30.85	25.8	4.84	32.85	-	-	P	H
		955.38	36.47	-9.53	46	30.48	31.21	6.13	31.35	-	-	P	H
													H
													H
													H
													H
													H
													H
		40.67	26.82	-13.18	40	39.09	19.23	1.24	32.74	-	-	P	V
		56.19	31.77	-8.23	40	50.59	12.18	1.73	32.73	-	-	P	V
		118.27	26.41	-17.09	43.5	39.45	17.3	2.38	32.72	-	-	P	V
		263.77	20.64	-25.36	46	30.07	19.9	3.35	32.68	-	-	P	V
		734.22	35.27	-10.73	46	34.83	27.78	5.37	32.71	-	-	P	V
		892.33	38.18	-7.82	46	35.16	28.99	5.93	31.9	-	-	P	V
													V
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													V
Remark	1. No other spurious found.												
	2. All results are PASS against limit line.												
	3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only.												



<HR 2Mbps Ant.3>

2.4GHz 2400~2483.5MHz

BT (Band Edge @ 3m)

BT	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BT CH00 2402MHz		2384.97	51.13	-22.87	74	47.51	26.95	9.13	32.46	116	300	P	H
		2384.97	26.46	-27.54	54	-	-	-	-	-	-	A	H
	*	2402	113.64	-	-	109.95	27	9.16	32.47	116	300	P	H
	*	2402	88.97	-	-	-	-	-	-	-	-	A	H
													H
													H
		2374.155	50.02	-23.98	74	46.36	27	9.11	32.45	359	92	P	V
		2374.155	25.35	-28.65	54	-	-	-	-	-	-	A	V
	*	2402	109.48	-	-	105.79	27	9.16	32.47	359	92	P	V
	*	2402	84.81	-	-	-	-	-	-	-	-	A	V
													V
													V
BT CH 39 2441MHz		2375.1	49.93	-24.07	74	46.28	27	9.11	32.46	137	253	P	H
		2375.1	25.26	-28.74	54	-	-	-	-	-	-	A	H
	*	2441	115.04	-	-	111.49	26.81	9.24	32.5	137	253	P	H
	*	2441	90.37	-	-	-	-	-	-	-	-	A	H
		2488.38	49.86	-24.14	74	46.16	26.9	9.33	32.53	137	253	P	H
		2488.38	25.19	-28.81	54	-	-	-	-	-	-	A	H
		2343.04	50.15	-23.85	74	46.53	27	9.05	32.43	398	98	P	V
		2343.04	25.48	-28.52	54	-	-	-	-	-	-	A	V
	*	2441	110.59	-	-	107.04	26.81	9.24	32.5	398	98	P	V
	*	2441	85.92	-	-	-	-	-	-	-	-	A	V
		2491.04	50.69	-23.31	74	46.97	26.91	9.34	32.53	398	98	P	V
		2491.04	26.02	-27.98	54	-	-	-	-	-	-	A	V



BT	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BT CH 78 2480MHz	*	2480	117	-	-	113.31	26.9	9.32	32.53	138	263	P	H
	*	2480	92.33	-	-	-	-	-	-	-	-	A	H
		2483.52	57.17	-16.83	74	53.48	26.9	9.32	32.53	138	263	P	H
		2483.52	32.5	-21.5	54	-	-	-	-	-	-	A	H
													H
													H
	*	2480	111.48	-	-	107.79	26.9	9.32	32.53	339	87	P	V
	*	2480	86.81	-	-	-	-	-	-	-	-	A	V
		2483.92	52.13	-21.87	74	48.44	26.9	9.32	32.53	339	87	P	V
		2483.92	27.46	-26.54	54	-	-	-	-	-	-	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

BT (Harmonic @ 3m)

BT	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BT CH 00 2402MHz		4804	45.82	-28.18	74	32.58	32.32	14.51	33.59	-	-	P	H
		4804	21.15	-32.85	54	-	-	-	-	-	-	A	H
													H
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													H
													H
		4804	47.8	-26.2	74	34.56	32.32	15.01	33.59	-	-	P	V
		4804	23.13	-30.87	54	-	-	-	-	-	-	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V



BT	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BT CH 39 2441MHz		4882	46.07	-27.93	74	32.63	32.56	14.45	33.57	-	-	P	H
		4882	21.4	-32.6	54	-	-	-	-	-	-	A	H
		7323	51.52	-22.48	74	33.39	37.5	16.58	35.95	-	-	P	H
		7323	26.85	-27.15	54	-	-	-	-	-	-	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4882	45.96	-28.04	74	32.52	32.56	14.45	33.57	-	-	P	V
		4882	21.29	-32.71	54	-	-	-	-	-	-	A	V
		7323	50.89	-23.11	74	32.76	37.5	16.58	35.95	-	-	P	V
		7323	26.22	-27.78	54	-	-	-	-	-	-	A	V
													V
													V
													V
													V
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													V
													V
													V
													V

[illegible]



<HR 2Mbps Ant.4>

2.4GHz 2400~2483.5MHz

BT (Band Edge @ 3m)

BT	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BT CH00 2402MHz		2389.065	51.19	-22.81	74	47.6	26.91	9.14	32.46	117	78	P	H
		2389.065	26.52	-27.48	54	-	-	-	-	-	-	A	H
	*	2402	116.39	-	-	112.7	27	9.16	32.47	117	78	P	H
	*	2402	91.72	-	-	-	-	-	-	-	-	A	H
													H
													H
		2387.595	50.33	-23.67	74	46.73	26.92	9.14	32.46	358	118	P	V
		2387.595	25.66	-28.34	54	-	-	-	-	-	-	A	V
	*	2402	112.21	-	-	108.52	27	9.16	32.47	358	118	P	V
	*	2402	87.54	-	-	-	-	-	-	-	-	A	V
													V
													V
BT CH 39 2441MHz		2329.46	49.81	-24.19	74	46.1	27.1	9.03	32.42	204	35	P	H
		2329.46	25.14	-28.86	54	-	-	-	-	-	-	A	H
	*	2441	115.97	-	-	112.42	26.81	9.24	32.5	204	35	P	H
	*	2441	91.3	-	-	-	-	-	-	-	-	A	H
		2495.59	49.91	-24.09	74	46.14	26.96	9.35	32.54	204	35	P	H
		2495.59	25.24	-28.76	54	-	-	-	-	-	-	A	H
		2311.26	50.06	-23.94	74	46.47	27.01	8.99	32.41	398	112	P	V
		2311.26	25.39	-28.61	54	-	-	-	-	-	-	A	V
	*	2441	113.22	-	-	109.67	26.81	9.24	32.5	398	112	P	V
	*	2441	88.55	-	-	-	-	-	-	-	-	A	V
		2488.73	50.35	-23.65	74	46.65	26.9	9.33	32.53	398	112	P	V
		2488.73	25.68	-28.32	54	-	-	-	-	-	-	A	V



BT	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BT CH 78 2480MHz	*	2480	116.95	-	-	113.26	26.9	9.32	32.53	199	28	P	H
	*	2480	92.28	-	-	-	-	-	-	-	-	A	H
		2483.88	56.14	-17.86	74	52.45	26.9	9.32	32.53	199	28	P	H
		2483.88	31.47	-22.53	54	-	-	-	-	-	-	A	H
													H
													H
	*	2480	113.46	-	-	109.77	26.9	9.32	32.53	398	110	P	V
	*	2480	88.79	-	-	-	-	-	-	-	-	A	V
		2483.64	53.98	-20.02	74	50.29	26.9	9.32	32.53	398	110	P	V
		2483.64	29.31	-24.69	54	-	-	-	-	-	-	A	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**2.4GHz 2400~2483.5MHz****BT (Harmonic @ 3m)**

BT	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BT CH 00 2402MHz		4804	45.46	-28.54	74	32.22	32.32	14.51	33.59	-	-	P	H
		4804	20.79	-33.21	54	-	-	-	-	-	-	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4804	45.84	-28.16	74	32.6	32.32	14.51	33.59	-	-	P	V
		4804	21.17	-32.83	54	-	-	-	-	-	-	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V



BT	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BT CH 39 2441MHz		4882	46.58	-27.42	74	33.14	32.56	14.45	33.57	-	-	P	H
		4882	21.91	-32.09	54	-	-	-	-	-	-	A	H
		7323	49.97	-24.03	74	31.84	37.5	16.58	35.95	-	-	P	H
		7323	25.3	-28.7	54	-	-	-	-	-	-	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4882	47.95	-26.05	74	34.51	32.56	14.45	33.57	-	-	P	V
		4882	23.28	-30.72	54	-	-	-	-	-	-	A	V
		7323	51.3	-22.7	74	33.17	37.5	16.58	35.95	-	-	P	V
		7323	26.63	-27.37	54	-	-	-	-	-	-	A	V
													V
													V
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													V

BT	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BT CH 78 2480MHz		4960	46.46	-27.54	74	32.92	32.7	14.4	33.56	-	-	P	H
		4960	21.79	-32.21	54	-	-	-	-	-	-	A	H
		7440	51.13	-22.87	74	32.97	37.32	16.88	36.04	-	-	P	H
		7440	26.46	-27.54	54	-	-	-	-	-	-	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4960	46.71	-27.29	74	33.17	32.7	14.4	33.56	-	-	P	V
		4960	22.04	-31.96	54	-	-	-	-	-	-	A	V
		7440	50.83	-23.17	74	32.67	37.32	16.88	36.04	-	-	P	V
		7440	26.16	-27.84	54	-	-	-	-	-	-	A	V
													V
													V
													V
													V
													V
													V
													V
												V	
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												
	3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is Margin line.
P/A	Peak or Average
H/V	Horizontal or Vertical



A calculation example for radiated spurious emission is shown as below:

BT	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BT CH 00 2402MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) =
Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Margin (dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
= 55.45 (dBμV/m)
2. Margin (dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/m)
= -18.55(dB)

Peak measured complies with the limit line, so test result is “PASS”.



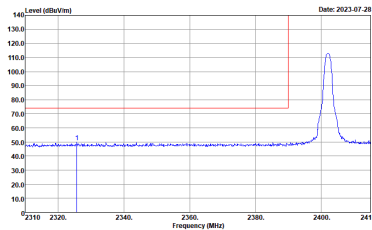
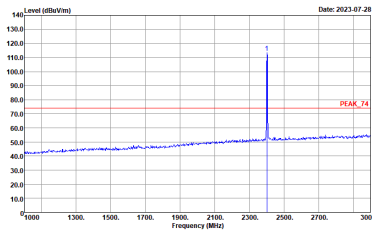
Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Bank Lin and Lu Wen-Kai	Temperature :	20~25°C
		Relative Humidity :	55~65%

<BR + EDR Ant.3>

2.4GHz 2400~2483.5MHz

BT (Band Edge @ 3m)

BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH00 2402MHz	
	Horizontal	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_BE_74 3m LE2C04A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HY Condition : PEAK_74 3m LE2C04A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH00 2402MHz	
	Vertical	Fundamental
Peak	Level (dBm/Vm) Date: 2023-07-28 Frequency (MHz) Site : 03CH22-11Y Condition : PEAK_95_74 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Level (dBm/Vm) Date: 2023-07-28 Frequency (MHz) Site : 03CH22-11Y Condition : PEAK_74 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH39 2441MHz	
	Horizontal	Fundamental
Peak	Site : 03CH22-HV Condition : PEAK_BE_74 3m LE2004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH22-HV Condition : PEAK_74 3m LE2004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	Site : 03CH22-HV Condition : PEAK_BE_74 3m LE2004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH39 2441MHz	
	Vertical	Fundamental
Peak	Site : 03CH22-HY Condition : PEAK_BE_74 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH22-HY Condition : PEAK_74 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	Site : 03CH22-HY Condition : PEAK_BE_74 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH78 2480MHz	
	Horizontal	Fundamental
Peak	Level (dBm/Vm) Date: 2023-07-28 2400 2403.2405.2407.2409.2411.2413.2415.2417.2419.2421.2423.2425.2427.2429.2431.2433.2435.2437.2439.2441.2443.2445.2447.2449.2451.2453.2455.2457.2459.2461.2463.2465.2467.2469.2471.2473.2475.2477.2479.2481.2483.2485.2487.2489.2491.2493.2495.2497.2500 Frequency (MHz) Site : 03CH22-11Y Condition : PEAK_B7_74 3m LE2004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Level (dBm/Vm) Date: 2023-07-28 1000 1300 1600 1900 2100 2300 2500 2700 3000 Frequency (MHz) Site : 03CH22-11Y Condition : PEAK_74 3m LE2004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH78 2480MHz	
	Vertical	Fundamental
Peak	Level (dBuV/m) Date: 2023-07-28 Frequency (MHz) Site : 03CH22-11Y Condition : PEAK_B7_74 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Level (dBuV/m) Date: 2023-07-28 Frequency (MHz) Site : 03CH22-11Y Condition : PEAK_74 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



2.4GHz 2400~2483.5MHz

BT (Harmonic @ 3m)

BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH00 2402MHz	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2023-08-10 Frequency (MHz) Site : 03CH22-4Y Condition : PEAK_74 3m LE2004A18EN_230712 HORIZONTAL	Level (dBuV/m) Date: 2023-08-10 Frequency (MHz) Site : 03CH22-4Y Condition : PEAK_74 3m LE2004A18EN_230712 VERTICAL



BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH00 2402MHz	
	Horizontal	Vertical
10.6G ~18G Avg.	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL :



BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH39 2441MHz	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : PEAK_74 3m LE2004A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : PEAK_74 3m LE2004A18EN_230712 VERTICAL :



BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH39 2441MHz	
	Horizontal	Vertical
10.6G ~18G Avg.	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL :



BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH78 2480MHz	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : PEAK_74 3m LE2004A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : PEAK_74 3m LE2004A18EN_230712 VERTICAL :



BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH78 2480MHz	
	Horizontal	Vertical
10.6G ~18G Avg.	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL :



Emission above 18GHz

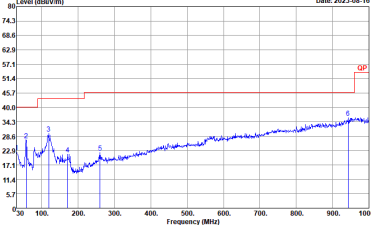
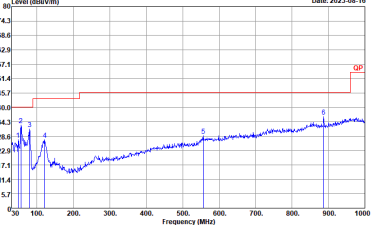
2.4GHz BT (SHF @ 1m)

BT	2.4GHz 2400~2483.5MHz	
	BT SHF	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2023-08-15 Site : 03CH22-4V Condition : PEAK_74 1m SHF_1224_230710 HORIZONTAL	Level (dBuV/m) Date: 2023-08-15 Site : 03CH22-4V Condition : PEAK_74 1m SHF_1224_230710 VERTICAL



Emission below 1GHz

2.4GHz BT (LF)

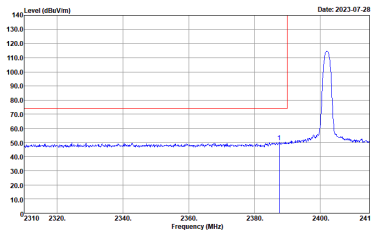
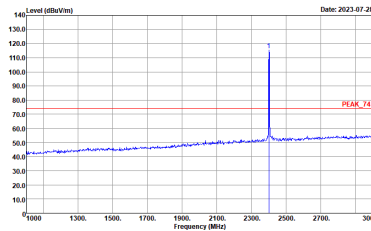
BT	2.4GHz 2400~2483.5MHz	
	BT LF	
	Horizontal	Vertical
QP / Peak	 Site : 03CH22-HV Condition : QP-3m 81LO6_63304_221004 HORIZONTAL :	 Site : 03CH22-HV Condition : QP-3m 81LO6_63304_221004 VERTICAL :



<BR + EDR Ant.4>

2.4GHz 2400~2483.5MHz

BT (Band Edge @ 3m)

BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH00 2402MHz	
	Horizontal	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_BE_74 3m LE2C04A18EN_230712 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HY Condition : PEAK_74 3m LE2C04A18EN_230712 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

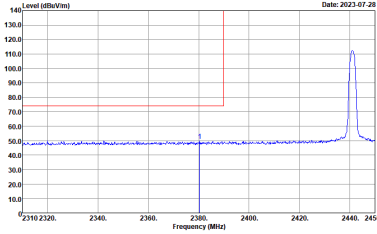
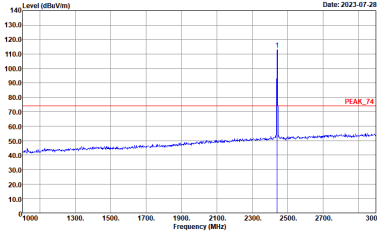
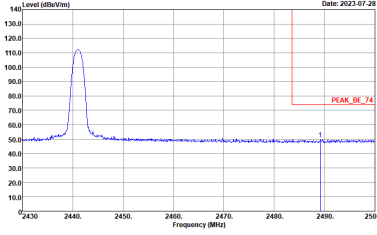


BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH00 2402MHz	
	Vertical	Fundamental
Peak	Level (dBm/Vm) Date: 2023-07-28 Frequency (MHz) Site : 03CH22-11Y Condition : PEAK_95_74 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Level (dBm/Vm) Date: 2023-07-28 Frequency (MHz) Site : 03CH22-11Y Condition : PEAK_74 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH39 2441MHz	
	Horizontal	Fundamental
Peak	Site : 03CH22-HV Condition : PEAK_BE_74 3m LE2004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH22-HV Condition : PEAK_74 3m LE2004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	Site : 03CH22-HV Condition : PEAK_BE_74 3m LE2004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH39 2441MHz	
	Vertical	Fundamental
Peak	 Site : 03CH22-HV Condition : PEAK_BE_74 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HV Condition : PEAK_74 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	 Site : 03CH22-HV Condition : PEAK_BE_74 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH78 2480MHz	
	Horizontal	Fundamental
Peak	Level (dBm/Vm) Date: 2023-07-28 2460 2463.2465.2467.2469.2471.2473.2475.2477.2479.2481.2483.2485.2487.2489.2491.2493.2495.2497. 2500 Frequency (MHz) Site : 03CH22-11Y Condition : PEAK_B8_74 3m LE2004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Level (dBm/Vm) Date: 2023-07-28 1000 1300. 1500. 1700. 1900. 2100. 2300. 2500. 2700. 3000 Frequency (MHz) Site : 03CH22-11Y Condition : PEAK_74 3m LE2004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH78 2480MHz	
	Vertical	Fundamental
Peak	Level (dBuV/m) Date: 2023-07-28 Frequency (MHz) Site : 03CH22-11Y Condition : PEAK_B7_74 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Level (dBuV/m) Date: 2023-07-28 Frequency (MHz) Site : 03CH22-11Y Condition : PEAK_74 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



2.4GHz 2400~2483.5MHz

BT (Harmonic @ 3m)

BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH00 2402MHz	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-HY Condition : PEAK_74 3m LE2004A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-HY Condition : PEAK_74 3m LE2004A18EN_230712 VERTICAL :



BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH00 2402MHz	
	Horizontal	Vertical
10.6G ~18G Avg.	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL :



BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH39 2441MHz	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : PEAK_74 3m LE2004A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : PEAK_74 3m LE2004A18EN_230712 VERTICAL :



BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH39 2441MHz	
	Horizontal	Vertical
10.6G ~18G Avg.	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL :



BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH78 2480MHz	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : PEAK_74 3m LE2004A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : PEAK_74 3m LE2004A18EN_230712 VERTICAL :



BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH78 2480MHz	
	Horizontal	Vertical
10.6G ~18G Avg.	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL :



Emission above 18GHz

2.4GHz BT (SHF @ 1m)

BT	2.4GHz 2400~2483.5MHz	
	BT SHF	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2023-08-15 Site : 03CH22-4V Condition : PEAK_74 1m SHF_1224_230710 HORIZONTAL :	Level (dBuV/m) Date: 2023-08-15 Site : 03CH22-4V Condition : PEAK_74 1m SHF_1224_230710 VERTICAL :



Emission below 1GHz

2.4GHz BT (LF)

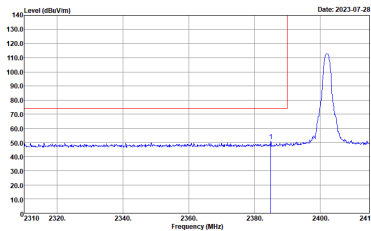
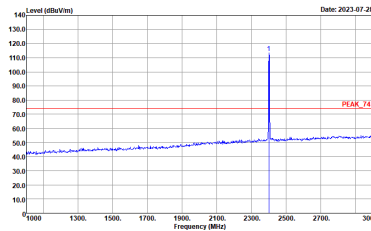
BT	2.4GHz 2400~2483.5MHz	
	BT LF	
	Horizontal	Vertical
QP / Peak	Level (dBuV/m) Date: 2023-08-16 Site : 03CH22-HV Condition : QP-3m 81LO6_63304_221004 HORIZONTAL :	Level (dBuV/m) Date: 2023-08-16 Site : 03CH22-HV Condition : QP-3m 81LO6_63304_221004 VERTICAL :



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2.4GHz 2400~2483.5MHz

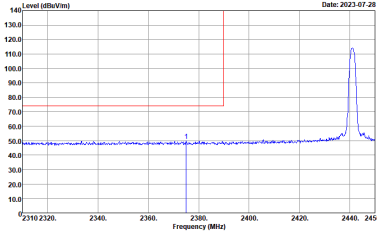
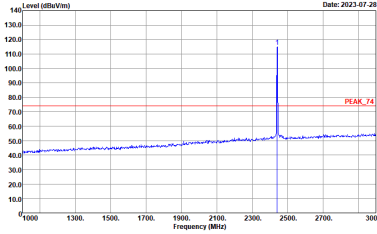
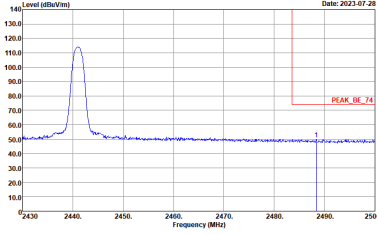
BT (Band Edge @ 3m)

BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH00 2402MHz	
	Horizontal	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_BE_74 3m LE2C04A18EN_230712 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HY Condition : PEAK_74 3m LE2C04A18EN_230712 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH00 2402MHz	
	Vertical	Fundamental
Peak	Level (dBm/Vm) Date: 2023-07-28 Frequency (MHz) Site : 03CH22-11Y Condition : PEAK_95_74 3m LE2C04A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Level (dBm/Vm) Date: 2023-07-28 Frequency (MHz) Site : 03CH22-11Y Condition : PEAK_74 3m LE2C04A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH39 2441MHz	
	Horizontal	Fundamental
Peak	 Site : 03CH22-HV Condition : PEAK_BE_74 3m LE2004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HV Condition : PEAK_74 3m LE2004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	 Site : 03CH22-HV Condition : PEAK_BE_74 3m LE2004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH39 2441MHz	
	Vertical	Fundamental
Peak	Site : 03CH22-HY Condition : PEAK_BE_74 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH22-HY Condition : PEAK_74 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	Site : 03CH22-HY Condition : PEAK_BE_74 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH78 2480MHz	
	Horizontal	Fundamental
Peak	Level (dBm/Vm) Date: 2023-07-28 Frequency (MHz) Site : 03CH22-11Y Condition : PEAK_B8_74 3m LE2004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Level (dBm/Vm) Date: 2023-07-28 Frequency (MHz) Site : 03CH22-11Y Condition : PEAK_74 3m LE2004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH78 2480MHz	
	Vertical	Fundamental
Peak	Level (dBuV/m) Date: 2023-07-28 Frequency (MHz) Site : 03CH22-11Y Condition : PEAK_B7_74 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Level (dBuV/m) Date: 2023-07-28 Frequency (MHz) Site : 03CH22-11Y Condition : PEAK_74 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



2.4GHz 2400~2483.5MHz

BT (Harmonic @ 3m)

BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH00 2402MHz	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-4Y Condition : PEAK_74 3m LE2004A18EN_230712 HORIZONTAL	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-4Y Condition : PEAK_74 3m LE2004A18EN_230712 VERTICAL



BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH00 2402MHz	
	Horizontal	Vertical
10.6G ~18G Avg.	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL :



BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH39 2441MHz	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : PEAK_74 3m LE2004A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : PEAK_74 3m LE2004A18EN_230712 VERTICAL :



BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH39 2441MHz	
	Horizontal	Vertical
10.6G ~18G Avg.	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL :



BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH78 2480MHz	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : PEAK_74 3m LE2004A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : PEAK_74 3m LE2004A18EN_230712 VERTICAL :



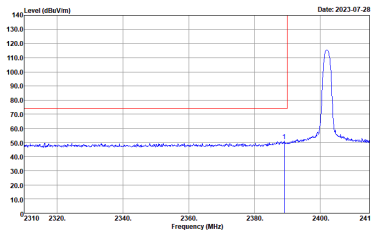
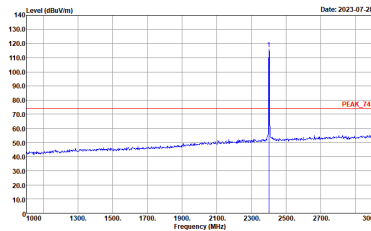
BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH78 2480MHz	
	Horizontal	Vertical
10.6G ~18G Avg.	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL :



<HR 2Mbps Ant.4>

2.4GHz 2400~2483.5MHz

BT (Band Edge @ 3m)

BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH00 2402MHz	
	Horizontal	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_BE_74 3m LE2C04A18EN_230712 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HY Condition : PEAK_74 3m LE2C04A18EN_230712 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH00 2402MHz	
	Vertical	Fundamental
Peak	Level (dBm/Vm) Date: 2023-07-28 Frequency (MHz) Site : 03CH22-11Y Condition : PEAK_95_74 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Level (dBm/Vm) Date: 2023-07-28 Frequency (MHz) Site : 03CH22-11Y Condition : PEAK_74 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH39 2441MHz	
	Horizontal	Fundamental
Peak	Site : 03CH22-HV Condition : PEAK_BE_74 3m LE2004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH22-HV Condition : PEAK_74 3m LE2004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	Site : 03CH22-HV Condition : PEAK_BE_74 3m LE2004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH39 2441MHz	
	Vertical	Fundamental
Peak	Site : 03CH22-HY Condition : PEAK_BE_74 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH22-HY Condition : PEAK_74 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	Site : 03CH22-HY Condition : PEAK_BE_74 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH78 2480MHz	
	Horizontal	Fundamental
Peak	Level (dBuV/m) Date: 2023-07-28 Frequency (MHz) Site : 03CH22-11Y Condition : PEAK_B8_74 3m LE2004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Level (dBuV/m) Date: 2023-07-28 Frequency (MHz) Site : 03CH22-11Y Condition : PEAK_74 3m LE2004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH78 2480MHz	
	Vertical	Fundamental
Peak	Level (dBuV/m) Date: 2023-07-28 Frequency (MHz) Site : 03CH22-11Y Condition : PEAK_B7_74 3m LE2C04A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Level (dBuV/m) Date: 2023-07-28 Frequency (MHz) Site : 03CH22-11Y Condition : PEAK_74 3m LE2C04A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



2.4GHz 2400~2483.5MHz

BT (Harmonic @ 3m)

BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH00 2402MHz	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-4Y Condition : PEAK_74 3m LE2004A18EN_230712 HORIZONTAL	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-4Y Condition : PEAK_74 3m LE2004A18EN_230712 VERTICAL



BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH00 2402MHz	
	Horizontal	Vertical
10.6G ~18G Avg.	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL :



BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH39 2441MHz	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2023-08-10 PEAK_74 AVG_54 Site : 03CH22-11Y Condition : PEAK_74 3m LE2004A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2023-08-10 PEAK_74 AVG_54 Site : 03CH22-11Y Condition : PEAK_74 3m LE2004A18EN_230712 VERTICAL :



BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH39 2441MHz	
	Horizontal	Vertical
10.6G ~18G Avg.	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL :



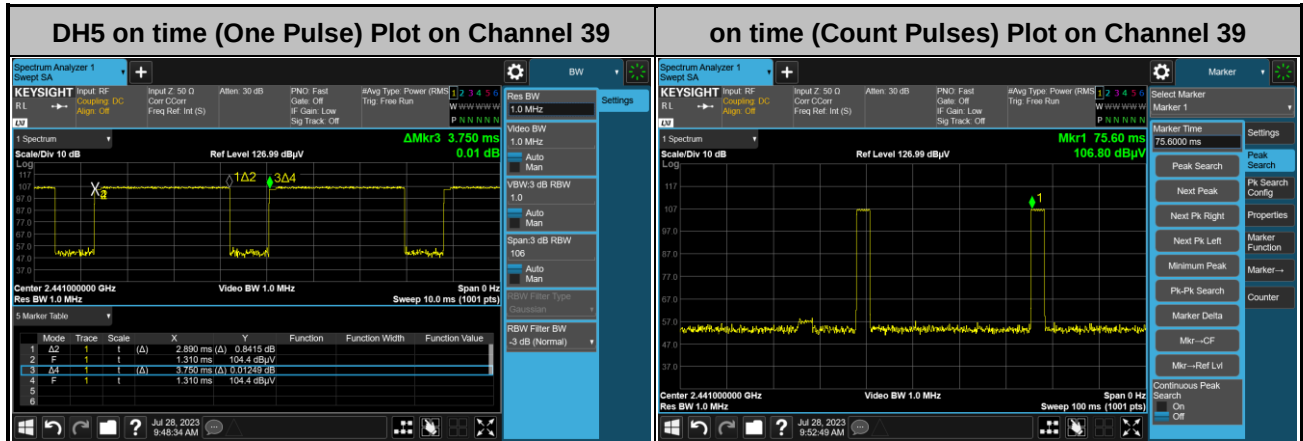
BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH78 2480MHz	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : PEAK_74 3m LE2004A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : PEAK_74 3m LE2004A18EN_230712 VERTICAL :



BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH78 2480MHz	
	Horizontal	Vertical
10.6G ~18G Avg.	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2023-08-10 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL :

Appendix E. Duty Cycle Plots

<BR + EDR Ant.3>



Note:

1. Worst case Duty cycle = on time/100 milliseconds = $2 * 2.89 / 100 = 5.78 \%$
2. Worst case Duty cycle correction factor = $20 * \log(\text{Duty cycle}) = -24.76 \text{ dB}$
3. DH5 has the highest duty cycle worst case and is reported.

Duty Cycle Correction Factor Consideration for AFH mode:

Bluetooth normal hopping rate is 1600Hz and reduced to 800Hz in AFH mode; due to the reduced number of hopping frequencies, with the same packet configuration the dwell time in each channel frequency within 100msec period is longer in AFH mode than normal mode.

In AFH mode, the minimum hopping frequencies are 20, to get the longest dwell time DH5 packet is observed; the on time period to have DH5 packet completing one hopping sequence is

$$2.89 \text{ ms} \times 20 \text{ channels} = 57.8 \text{ ms}$$

There cannot be 2 complete hopping sequences within 100ms period, considering the random hopping behavior, maximum 2 hops can be possibly observed within the period. $[100 \text{ ms} / 57.8 \text{ ms}] = 2 \text{ hops}$

Thus, the maximum possible ON time:

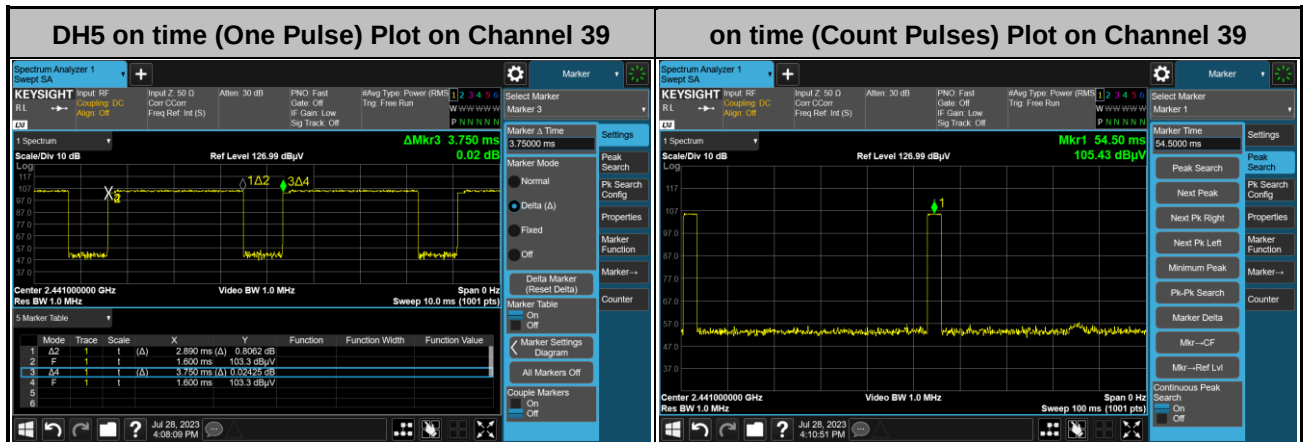
$$2.89 \text{ ms} \times 2 = 5.78 \text{ ms}$$

Worst case Duty Cycle Correction factor, which is derived from the maximum possible ON time,

$$20 \times \log(5.78 \text{ ms}/100 \text{ ms}) = -24.76 \text{ dB}$$



<BR + EDR Ant.4>

**Note:**

1. Worst case Duty cycle = on time/100 milliseconds = $2 \times 2.89 / 100 = 5.78 \%$
2. Worst case Duty cycle correction factor = $20 \times \log(\text{Duty cycle}) = -24.76 \text{ dB}$
3. DH5 has the highest duty cycle worst case and is reported.

Duty Cycle Correction Factor Consideration for AFH mode:

Bluetooth normal hopping rate is 1600Hz and reduced to 800Hz in AFH mode; due to the reduced number of hopping frequencies, with the same packet configuration the dwell time in each channel frequency within 100msec period is longer in AFH mode than normal mode.

In AFH mode, the minimum hopping frequencies are 20, to get the longest dwell time DH5 packet is observed; the on time period to have DH5 packet completing one hopping sequence is

$$2.89 \text{ ms} \times 20 \text{ channels} = 57.8 \text{ ms}$$

There cannot be 2 complete hopping sequences within 100ms period, considering the random hopping behavior, maximum 2 hops can be possibly observed within the period. $[100 \text{ ms} / 57.8 \text{ ms}] = 2 \text{ hops}$
Thus, the maximum possible ON time:

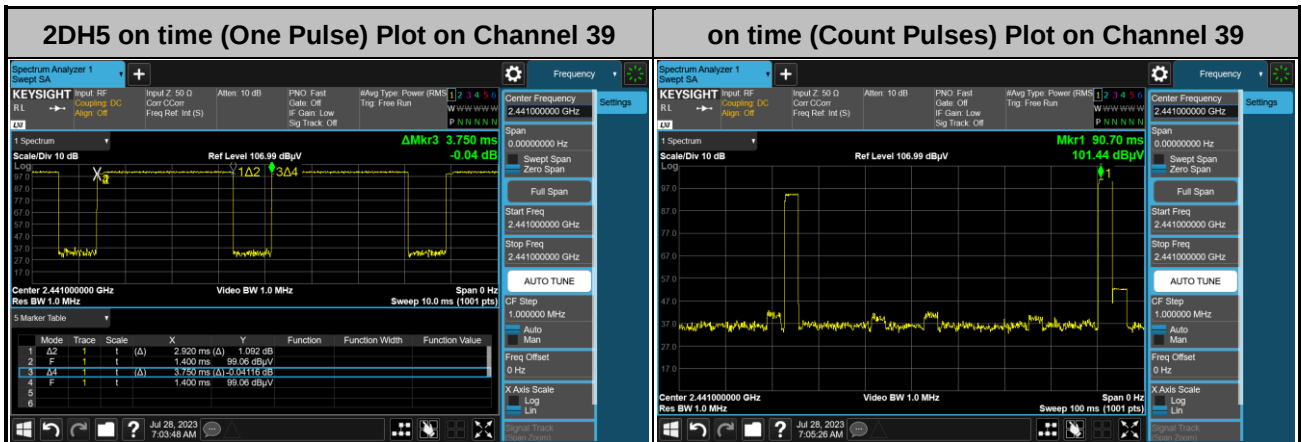
$$2.89 \text{ ms} \times 2 = 5.78 \text{ ms}$$

Worst case Duty Cycle Correction factor, which is derived from the maximum possible ON time,

$$20 \times \log(5.78 \text{ ms}/100 \text{ ms}) = -24.76 \text{ dB}$$



<HR 2Mbps Ant.3>



Note:

1. Worst case Duty cycle = on time/100 milliseconds = $2 \times 2.92 / 100 = 5.84 \%$
2. Worst case Duty cycle correction factor = $20 \times \log(\text{Duty cycle}) = -24.67 \text{ dB}$
3. 2DH5 has the highest duty cycle worst case and is reported.

Duty Cycle Correction Factor Consideration for AFH mode:

Bluetooth normal hopping rate is 1600Hz and reduced to 800Hz in AFH mode; due to the reduced number of hopping frequencies, with the same packet configuration the dwell time in each channel frequency within 100msec period is longer in AFH mode than normal mode.

In AFH mode, the minimum hopping frequencies are 20, to get the longest dwell time DH5 packet is observed; the on time period to have DH5 packet completing one hopping sequence is

$$2.92 \text{ ms} \times 20 \text{ channels} = 58.4 \text{ ms}$$

There cannot be 2 complete hopping sequences within 100ms period, considering the random hopping behavior, maximum 2 hops can be possibly observed within the period. $[100 \text{ ms} / 58.4 \text{ ms}] = 2 \text{ hops}$

Thus, the maximum possible ON time:

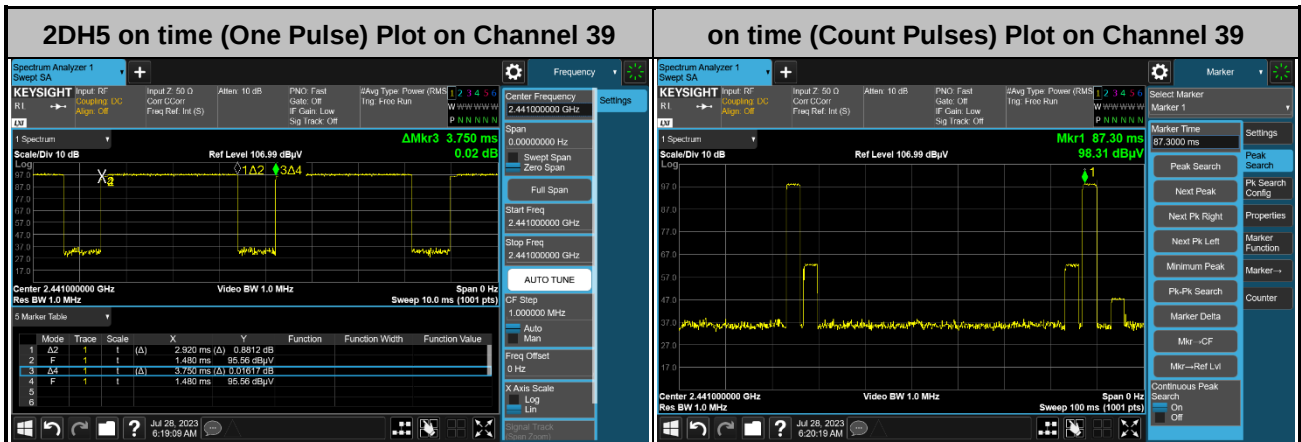
$$2.92 \text{ ms} \times 2 = 5.84 \text{ ms}$$

Worst case Duty Cycle Correction factor, which is derived from the maximum possible ON time,

$$20 \times \log(5.84 \text{ ms}/100 \text{ ms}) = -24.67 \text{ dB}$$



<HR 2Mbps Ant.4>



Note:

1. Worst case Duty cycle = on time/100 milliseconds = $2 \times 2.92 / 100 = 5.84 \%$
2. Worst case Duty cycle correction factor = $20 \times \log(\text{Duty cycle}) = -24.67 \text{ dB}$
3. 2DH5 has the highest duty cycle worst case and is reported.

Duty Cycle Correction Factor Consideration for AFH mode:

Bluetooth normal hopping rate is 1600Hz and reduced to 800Hz in AFH mode; due to the reduced number of hopping frequencies, with the same packet configuration the dwell time in each channel frequency within 100msec period is longer in AFH mode than normal mode.

In AFH mode, the minimum hopping frequencies are 20, to get the longest dwell time DH5 packet is observed; the on time period to have DH5 packet completing one hopping sequence is

$$2.92 \text{ ms} \times 20 \text{ channels} = 58.4 \text{ ms}$$

There cannot be 2 complete hopping sequences within 100ms period, considering the random hopping behavior, maximum 2 hops can be possibly observed within the period. $[100 \text{ ms} / 58.4 \text{ ms}] = 2 \text{ hops}$

Thus, the maximum possible ON time:

$$2.92 \text{ ms} \times 2 = 5.84 \text{ ms}$$

Worst case Duty Cycle Correction factor, which is derived from the maximum possible ON time,

$$20 \times \log(5.84 \text{ ms}/100 \text{ ms}) = -24.67 \text{ dB}$$

—————THE END—————