

Appendix A. Test Result of AC Power Line Conducted Emission

TX_BT3M_2441MHz_Line

Site :HY-SR01
Condition :Line
Mode :TX_BT3M_2441MHz
test by :Ryan

Level (dBuV)
Date: 2025-07-21

No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.153	49.90	65.82	-15.92	40.26	9.64	QP
2	0.153	32.66	55.82	-23.16	23.02	9.64	Average
3	0.416	44.30	57.53	-13.23	34.65	9.65	QP
4	0.416	31.68	47.53	-15.85	22.03	9.65	Average
5	1.020	35.11	56.00	-20.89	25.42	9.69	QP
6	1.020	21.46	46.00	-24.54	11.77	9.69	Average
7	2.813	31.30	56.00	-24.70	21.42	9.88	QP
8	2.813	18.90	46.00	-27.10	9.02	9.88	Average
9	5.489	34.61	60.00	-25.39	24.49	10.12	QP
10	5.489	20.64	50.00	-29.36	10.52	10.12	Average
11	24.071	23.69	60.00	-36.31	13.83	9.86	QP
12	24.071	9.67	50.00	-40.33	-0.19	9.86	Average

Note:
1. Level = Read Level + Factor
2. Factor = LISN insertion loss + Cable loss
3. Over Limit = Level - Limit Line

TX_BT3M_2441MHz_Neutral

Site :HY-SR01
Condition :Neutral
Mode :TX_BT3M_2441MHz
test by :Ryan

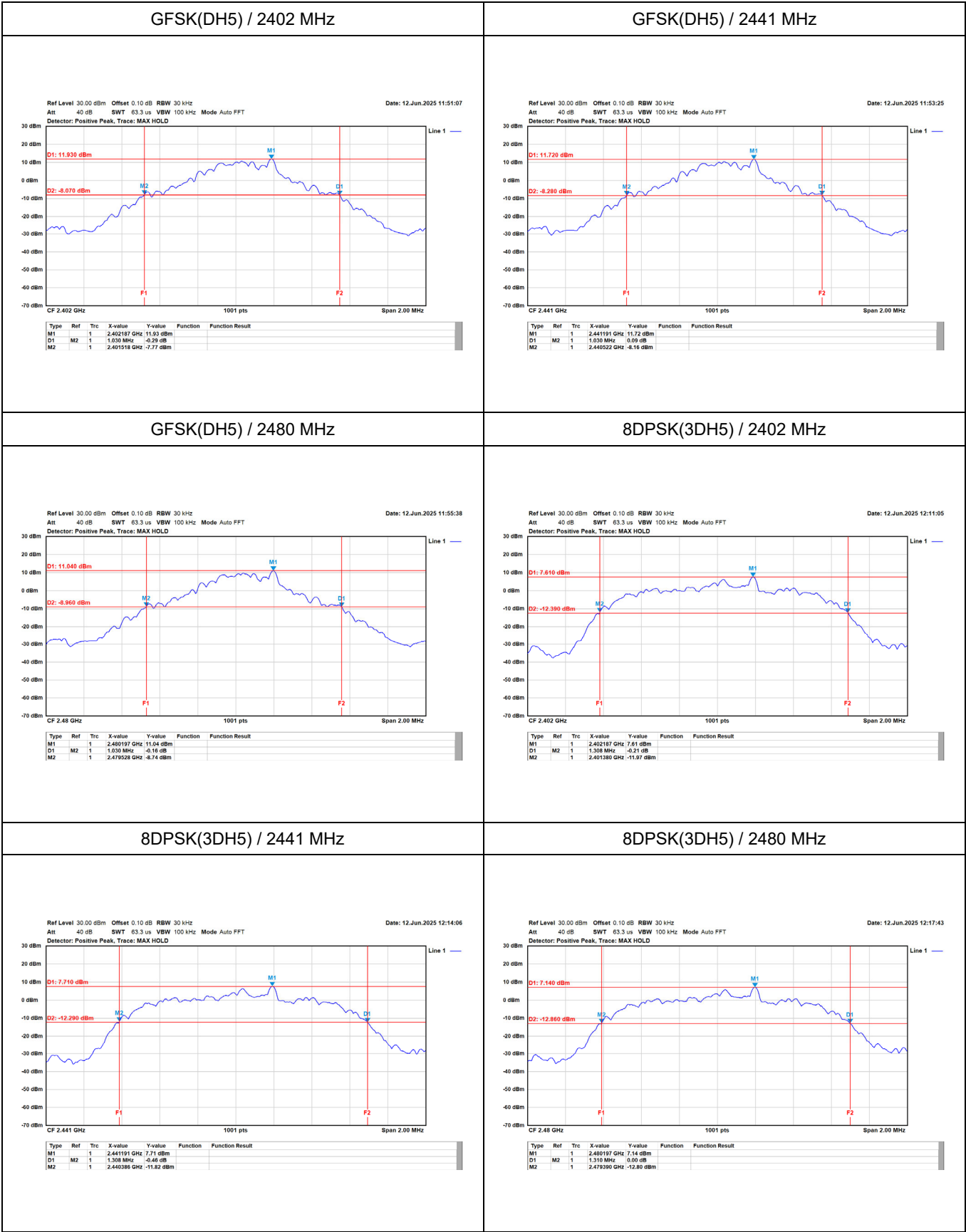
Level (dBuV)
Date: 2025-07-21

No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.154	49.17	65.77	-16.60	39.55	9.62	QP
2	0.154	33.00	55.77	-22.77	23.38	9.62	Average
3	0.419	45.72	57.47	-11.75	36.09	9.63	QP
4	0.419	32.17	47.47	-15.30	22.54	9.63	Average
5	0.974	34.79	56.00	-21.21	25.12	9.67	QP
6	0.974	21.98	46.00	-24.02	12.31	9.67	Average
7	2.124	32.02	56.00	-23.98	22.25	9.77	QP
8	2.124	19.03	46.00	-26.97	9.26	9.77	Average
9	5.527	35.16	60.00	-24.84	25.05	10.11	QP
10	5.527	23.08	50.00	-26.92	12.97	10.11	Average
11	24.146	28.64	60.00	-31.36	18.65	9.99	QP
12	24.146	16.73	50.00	-33.27	6.74	9.99	Average

Note:
1. Level = Read Level + Factor
2. Factor = LISN insertion loss + Cable loss
3. Over Limit = Level - Limit Line

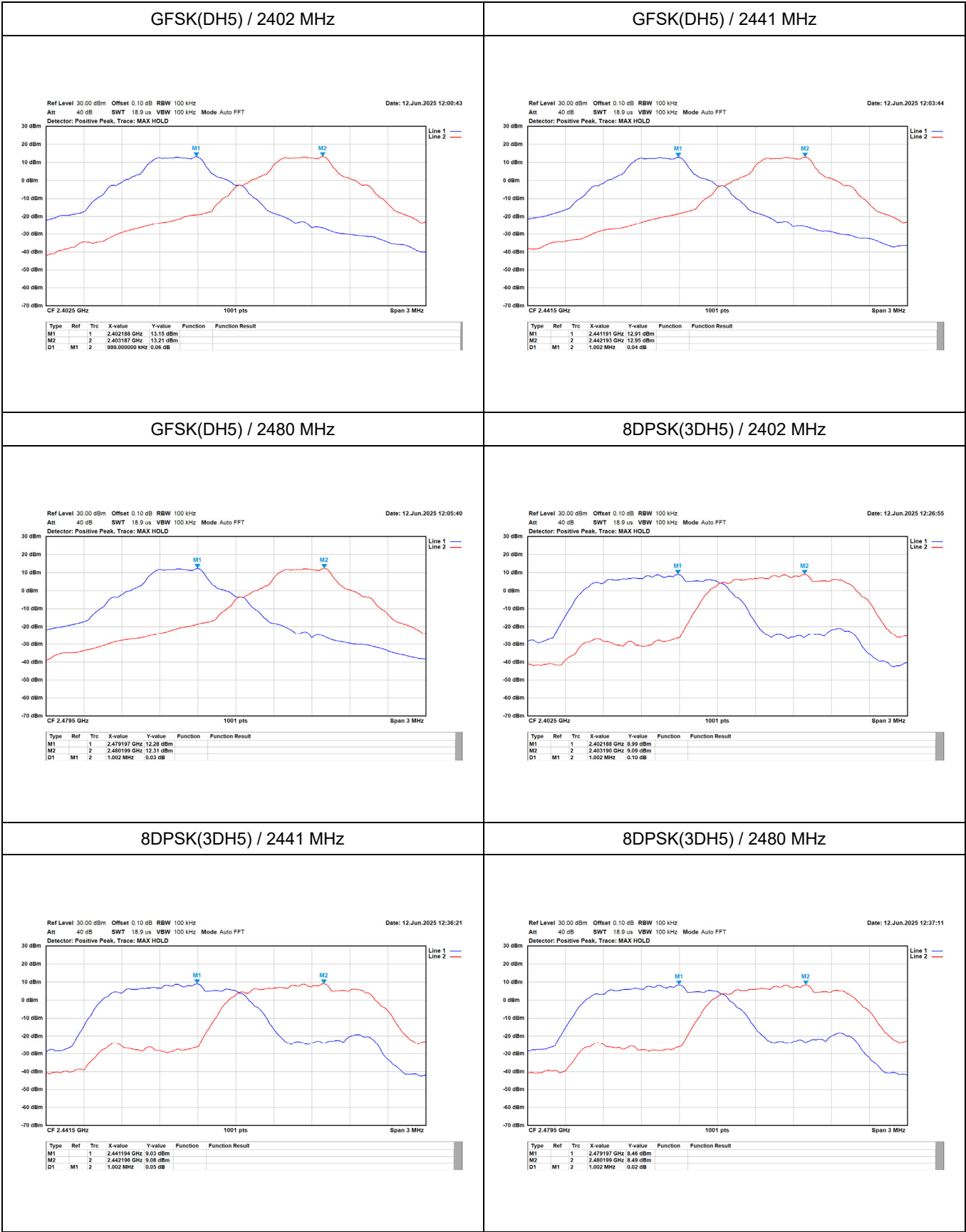
Appendix B. Test Result of 20dB Bandwidth

Modulation	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
GFSK	2402	1.03	-
	2441	1.03	-
	2480	1.03	-
8DPSK	2402	1.31	-
	2441	1.31	-
	2480	1.31	-



Appendix C. Test Result of Carrier Frequency Separation

Modulation	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
GFSK	2402	0.99	0.687	Pass
	2441	1.00	0.687	Pass
	2480	1.00	0.687	Pass
8DPSK	2402	1.00	0.872	Pass
	2441	1.00	0.872	Pass
	2480	1.00	0.873	Pass

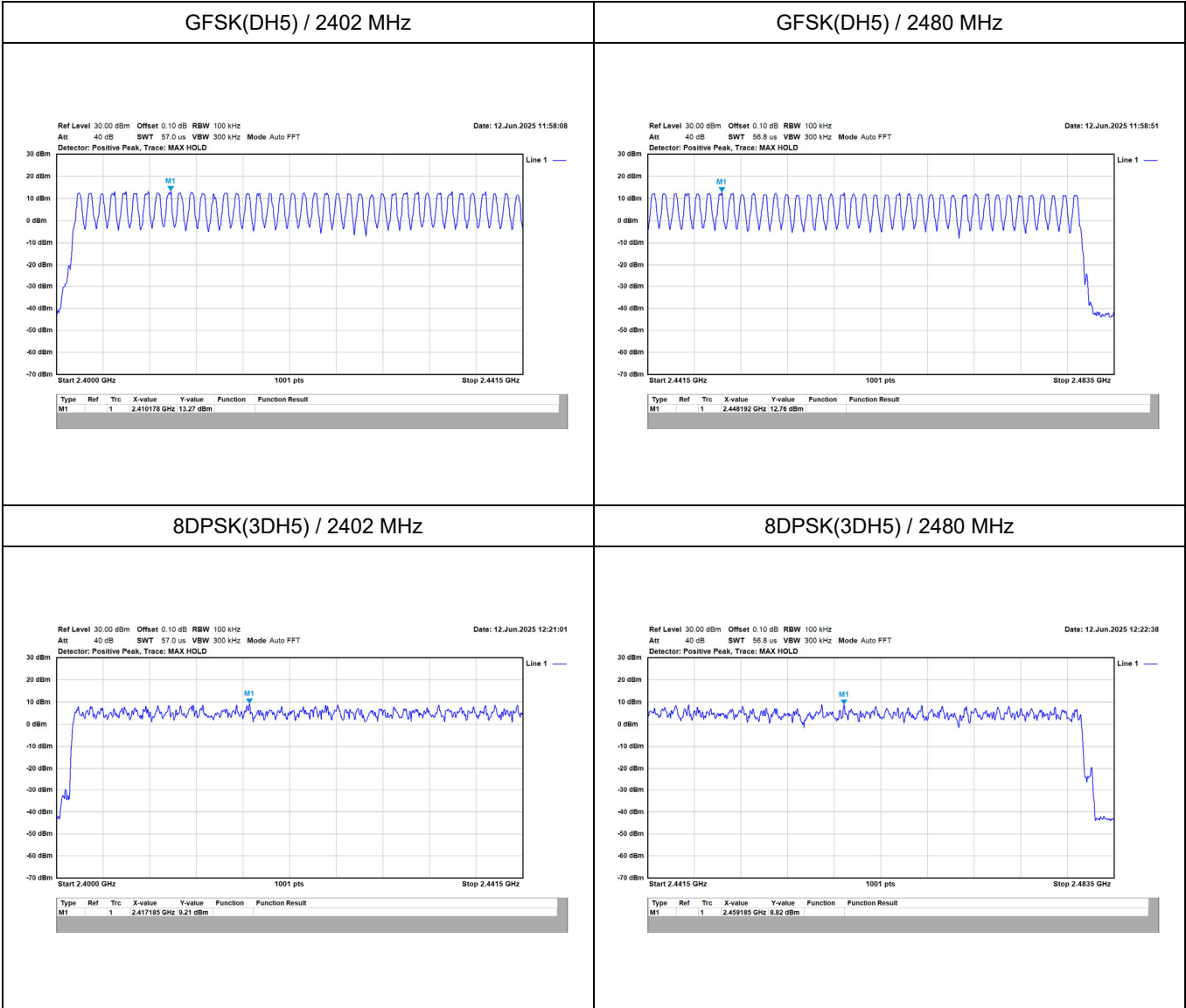


Appendix D. Test Result of Maximum Peak Conducted Output Power

Modulation	Frequency (MHz)	Maximum Conducted Peak Output Power (dBm)	Limit (dBm)	Result
GFSK	2402	6.46	21.00	Pass
	2441	6.13	21.00	Pass
	2480	5.25	21.00	Pass
8DPSK	2402	4.49	21.00	Pass
	2441	4.33	21.00	Pass
	2480	3.26	21.00	Pass

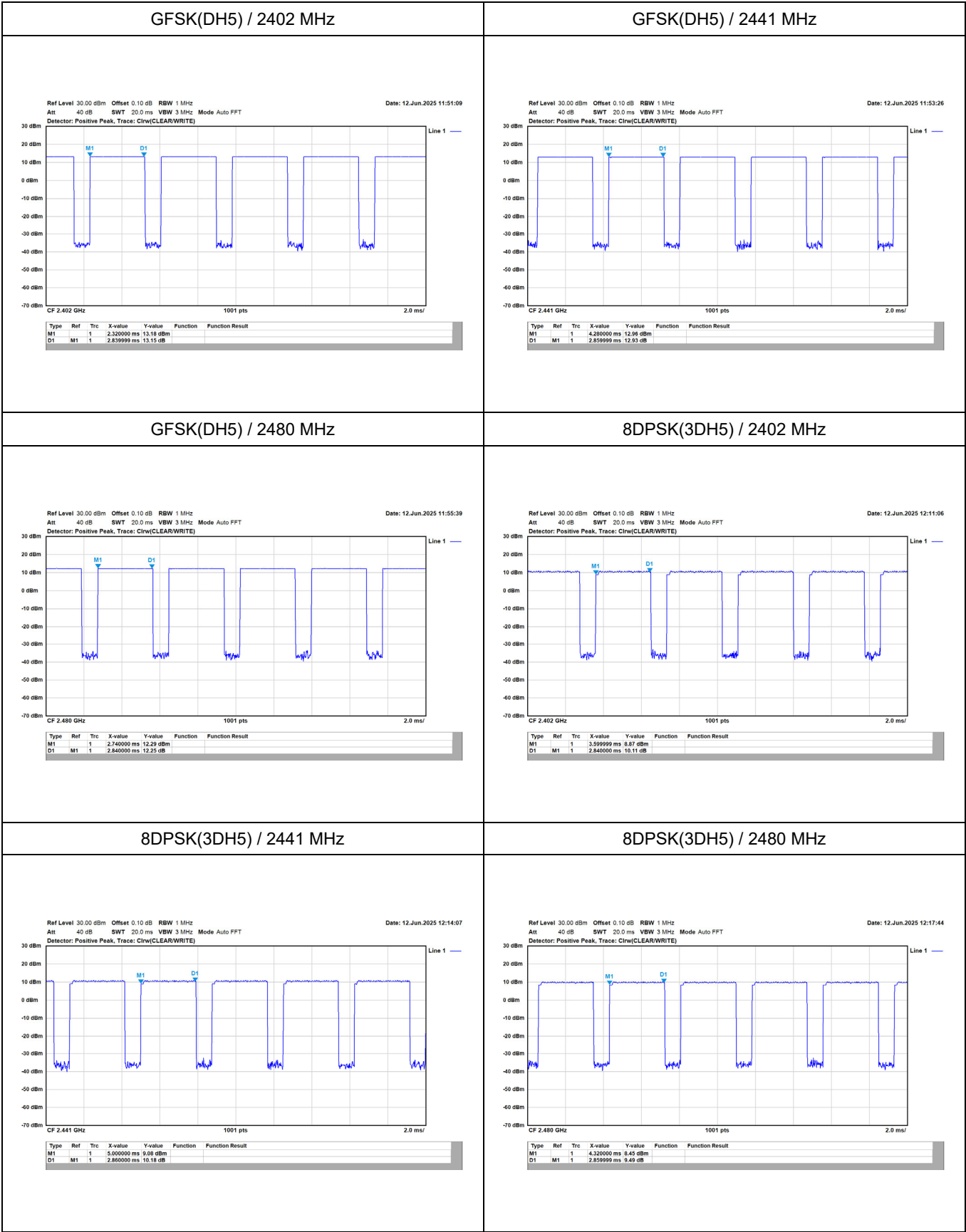
Appendix E. Test Result of Number of Hopping Frequency

Frequency Range (MHz)	Measure Level (Channels)	Limit (Channels)
2402.0 ~ 2480.0	79	≥ 15



Appendix F. Test Result of Dwell Time

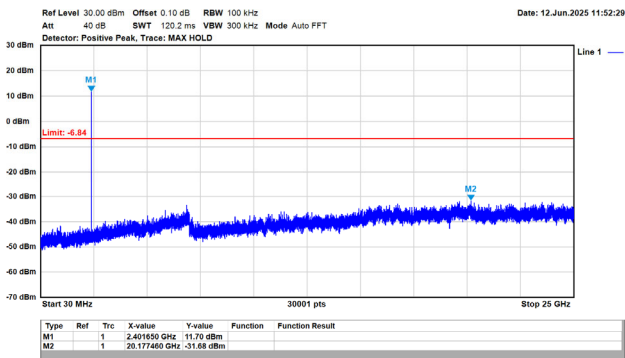
Modulation	Occupancy Time of Frequency Hopping System
GFSK	A) 2402 MHz Test Time Period: $0.4 \times 79 = 31.60$ sec, Time slot length :2.84 = 0.002840 sec
	Dwell Time : $0.002840 \times (266.67/79) \times 31.60 = 0.303$ sec °
	B) 2441 MHz Test Time Period: $0.4 \times 79 = 31.60$ sec, Time slot length :2.86 = 0.002860 sec
	Dwell Time : $0.002860 \times (266.67/79) \times 31.60 = 0.305$ sec °
	C) 2480 MHz Test Time Period: $0.4 \times 79 = 31.60$ sec, Time slot length :2.84 = 0.002840 sec
	Dwell Time : $0.002840 \times (266.67/79) \times 31.60 = 0.303$ sec °
8DPSK	A) 2402 MHz Test Time Period: $0.4 \times 79 = 31.60$ sec, Time slot length :2.84 = 0.002840 sec
	Dwell Time : $0.002840 \times (266.67/79) \times 31.60 = 0.303$ sec °
	B) 2441 MHz Test Time Period: $0.4 \times 79 = 31.60$ sec, Time slot length :2.86 = 0.002860 sec
	Dwell Time : $0.002860 \times (266.67/79) \times 31.60 = 0.305$ sec °
	C) 2480 MHz Test Time Period: $0.4 \times 79 = 31.60$ sec, Time slot length :2.86 = 0.002860 sec
	Dwell Time : $0.002860 \times (266.67/79) \times 31.60 = 0.305$ sec °
Test Result: The Average Occupancy Time of Each Highest , Middle and Lowest Channel Is Less Than 0.4 sec, And Corresponds to The Standard °	



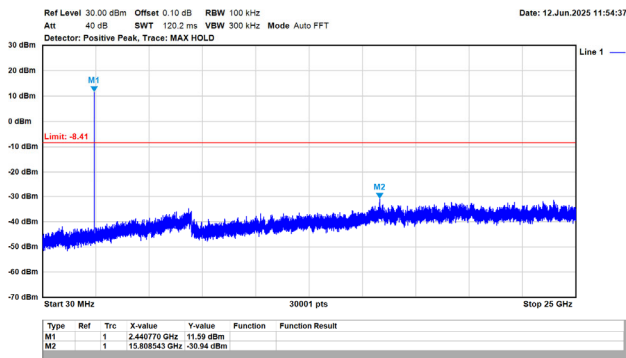
Appendix G. Test Result of Antenna Port Conducted Emission

Modulation	Measurement Level Δ (dB)	Result
GFSK	> 20	Pass
8DPSK	> 20	Pass

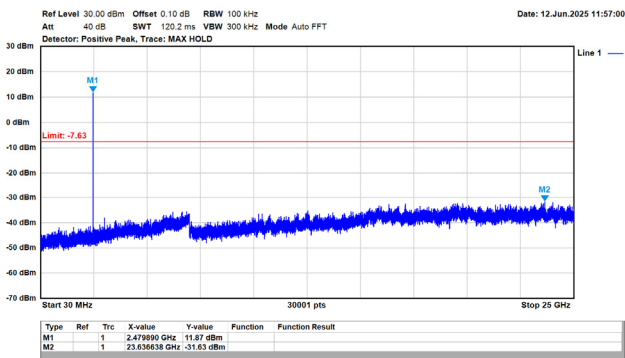
GFSK(DH5) / 2402 MHz



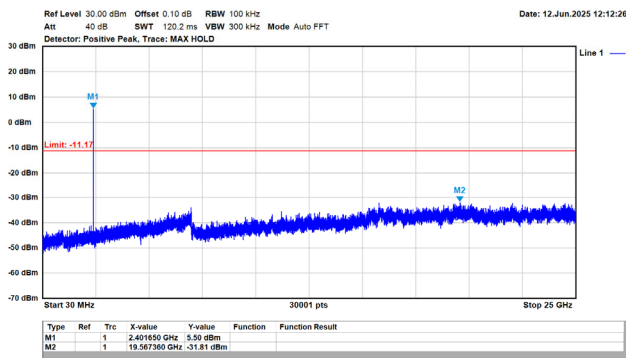
GFSK(DH5) / 2441 MHz



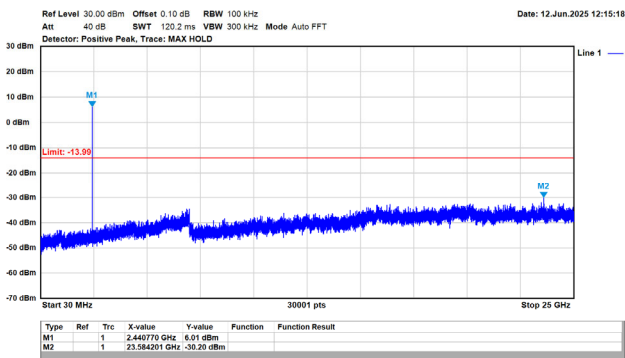
GFSK(DH5) / 2480 MHz



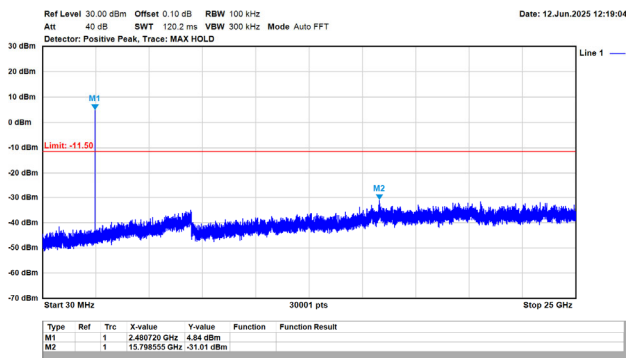
8DPSK(3DH5) / 2402 MHz



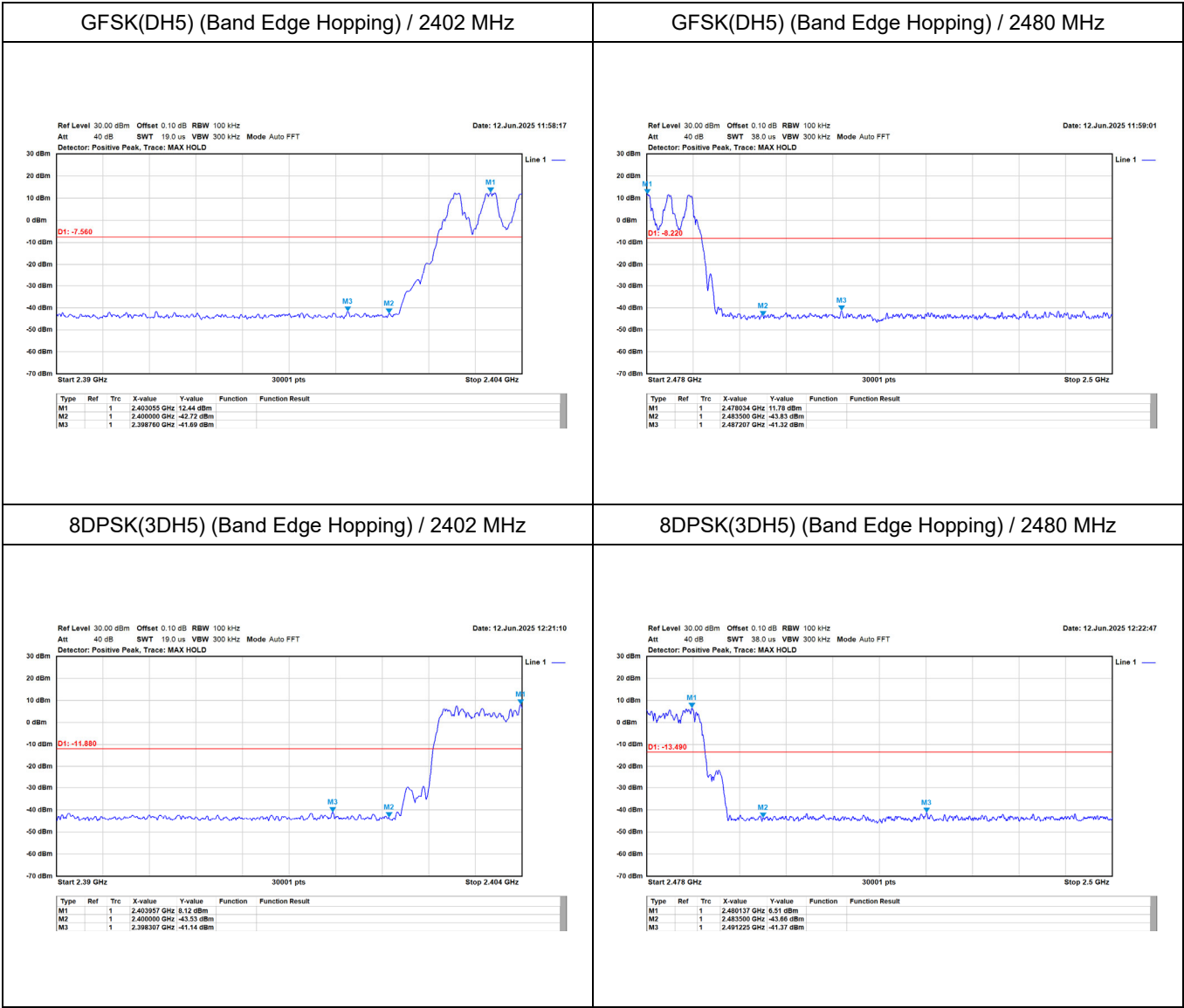
8DPSK(3DH5) / 2441 MHz



8DPSK(3DH5) / 2480 MHz

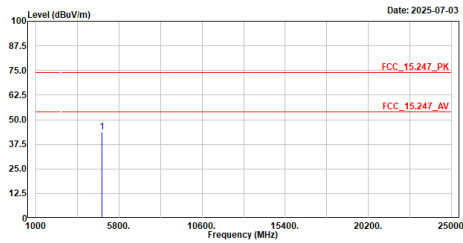






Appendix H. Test Result of Radiated Emission

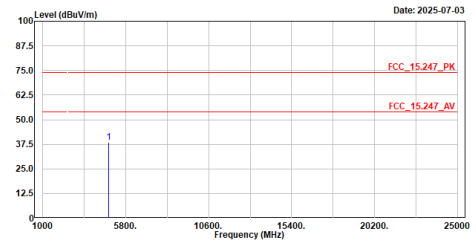
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_BT1M_2402MHz
Test BY :Ashton



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB/m	
1	4804.000	43.67	74.00	-30.33	58.62	-14.95	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

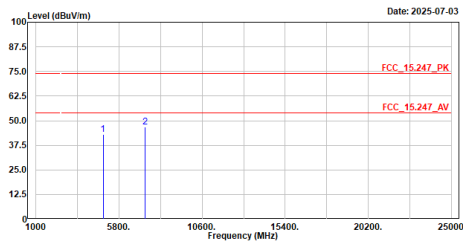
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_BT1M_2402MHz
Test BY :Ashton



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB/m	
1	4804.000	38.65	74.00	-35.35	53.60	-14.95	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

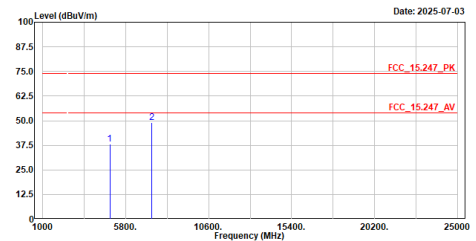
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_BT1M_2441MHz
Test BY :Ashton



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB/m	
1	4882.000	42.96	74.00	-31.04	57.53	-14.57	Peak
2	7323.000	46.77	74.00	-27.23	53.69	-6.92	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

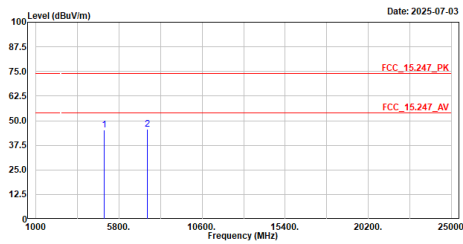
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_BT1M_2441MHz
Test BY :Ashton



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB/m	
1	4882.000	38.07	74.00	-35.93	52.64	-14.57	Peak
2	7323.000	49.14	74.00	-24.86	56.06	-6.92	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_BT1M_2480MHz
Test BY :Ashton

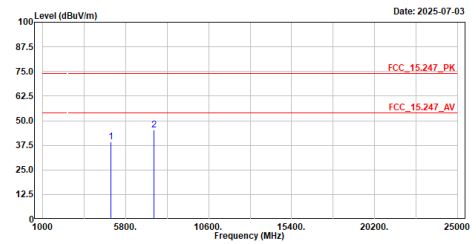


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB/m	
1	4960.000	45.33	74.00	-28.67	59.55	-14.22	Peak
2	7440.000	45.51	74.00	-28.49	52.52	-7.01	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_BT1M_2480MHz
Test BY :Ashton

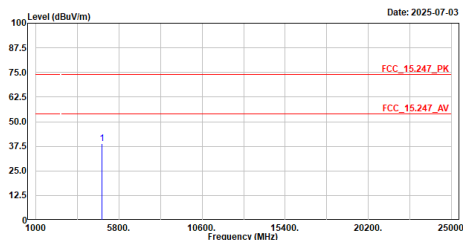


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB/m	
1	4960.000	39.23	74.00	-34.77	53.45	-14.22	Peak
2	7440.000	45.35	74.00	-28.65	52.36	-7.01	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_BT3M_2402MHz
Test BY :Ashton

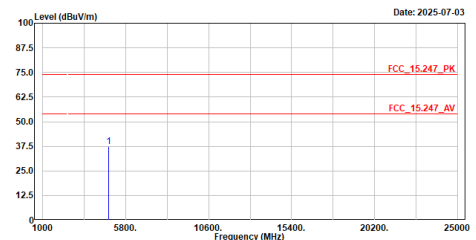


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB/m	
1	4804.000	38.75	74.00	-35.25	53.70	-14.95	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_BT3M_2402MHz
Test BY :Ashton

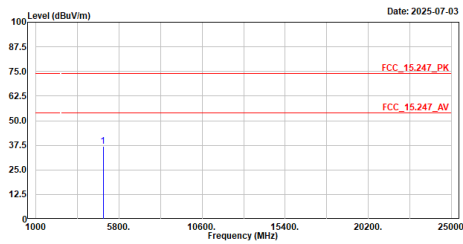


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB/m	
1	4804.000	37.24	74.00	-36.76	52.19	-14.95	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_BT3M_2441MHz
Test BY :Ashton

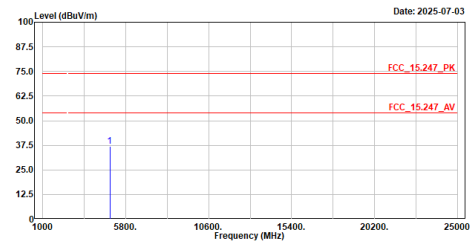


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB/m	
1	4882.000	37.05	74.00	-36.95	51.62	-14.57	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_BT3M_2441MHz
Test BY :Ashton

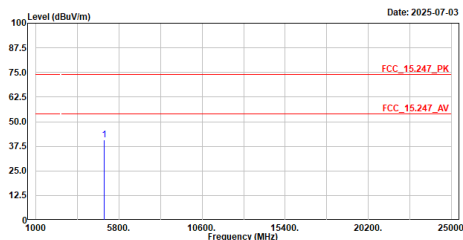


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB/m	
1	4882.000	37.08	74.00	-36.92	51.65	-14.57	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_BT3M_2480MHz
Test BY :Ashton

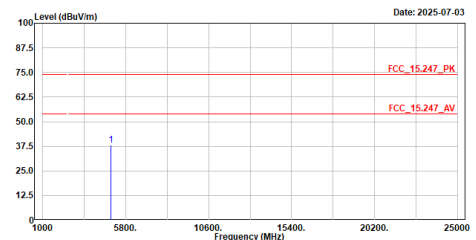


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB/m	
1	4960.000	40.91	74.00	-33.09	55.13	-14.22	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_BT3M_2480MHz
Test BY :Ashton

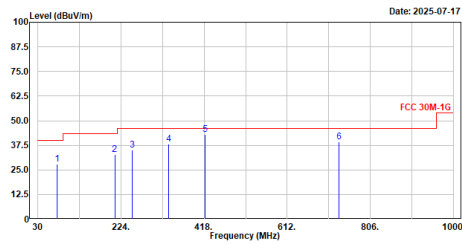


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB/m	
1	4960.000	37.97	74.00	-36.03	52.19	-14.22	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_BT3M_2441MHz
Test BY :Ashton

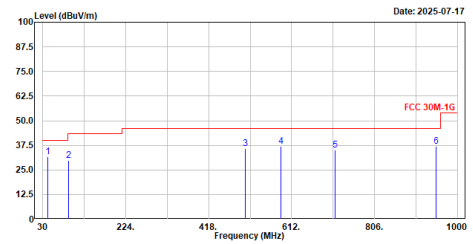


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB/m	
1	75.590	28.02	40.00	-11.98	55.73	-27.71	QP
2	209.450	32.91	43.50	-10.59	59.49	-26.58	QP
3	250.190	35.09	46.00	-10.91	60.00	-24.91	QP
4	335.550	38.21	46.00	-7.79	60.18	-21.97	QP
5	419.940	43.20	46.00	-2.80	63.15	-19.95	QP
6	733.250	39.32	46.00	-6.68	52.66	-13.34	QP

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.

Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_BT3M_2441MHz
Test BY :Ashton

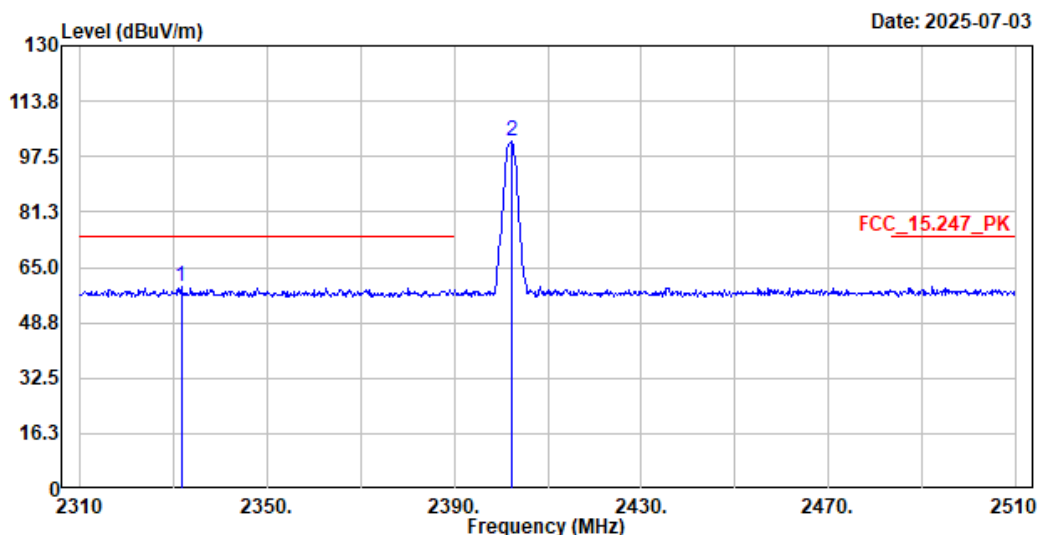


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB/m	
1	42.610	31.82	40.00	-8.18	55.55	-23.73	QP
2	90.140	29.79	43.50	-13.71	59.43	-29.64	QP
3	504.330	35.89	46.00	-10.11	53.79	-17.90	QP
4	587.750	36.93	46.00	-9.07	52.78	-15.85	QP
5	713.850	34.92	46.00	-11.08	48.74	-13.82	QP
6	950.530	37.02	46.00	-8.98	47.64	-10.62	QP

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.

Site :HY-CB03
 Condition :3m ,Horizontal
 Mode :TX_BT1M_2402MHz
 Test BY :Ashton



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2331.600	59.22	74.00	-14.78	28.73	30.49	Peak
2	2402.200	101.80	-----	-----	71.34	30.46	Peak

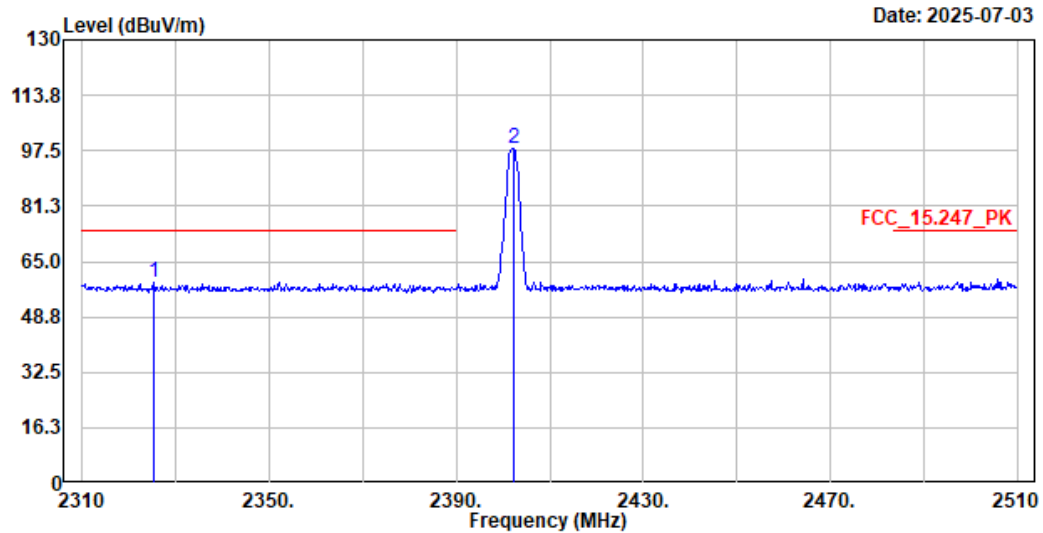
Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Horizontal-Average Detector:

Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Measurement Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)
2331.6	59.22	-24.734	34.486	-19.514	54.000
2402.2	101.8	-24.734	77.066	--	--

Site :HY-CB03
 Condition :3m ,Vertical
 Mode :TX_BT1M_2402MHz
 Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2325.200	59.02	74.00	-14.98	28.46	30.56	Peak
2	2402.200	98.17	-----	-----	67.71	30.46	Peak

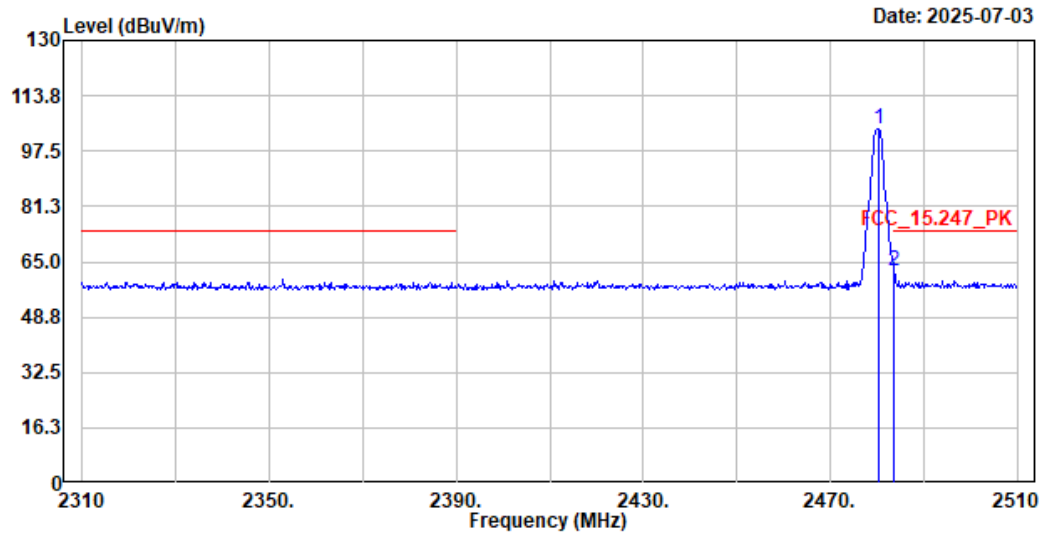
Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Vertical-Average Detector:

Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Measurement Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)
2325.2	59.02	-24.734	34.286	-19.714	54.000
2402.2	98.17	-24.734	73.436	--	--

Site :HY-CB03
 Condition :3m ,Horizontal
 Mode :TX_BT1M_2480MHz
 Test BY :Ashton



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB/m	
1	2480.200	103.87	-----	-----	73.48	30.39	Peak
2	2483.500	62.24	74.00	-11.76	31.80	30.44	Peak

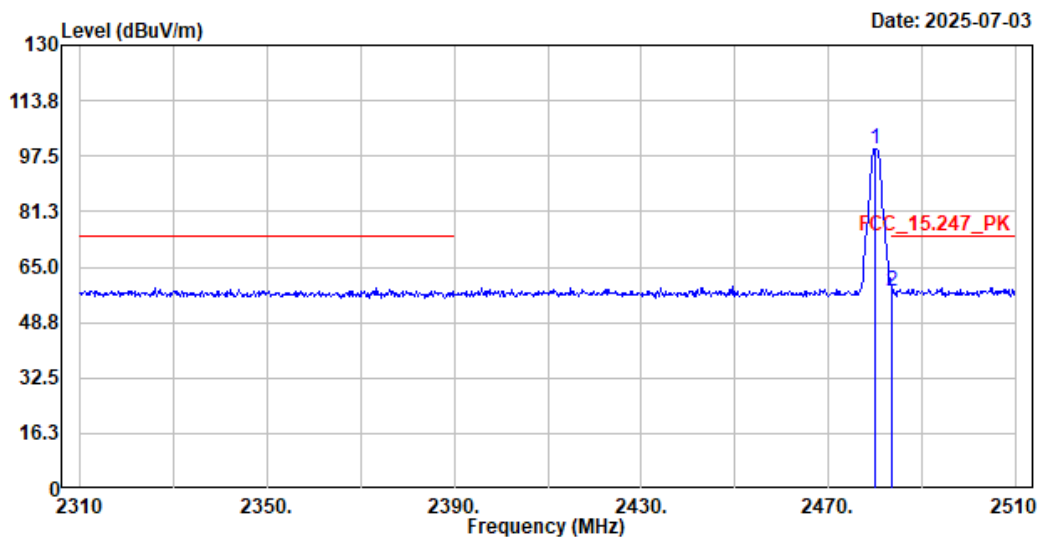
Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Horizontal-Average Detector:

Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Measurement Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)
2480.2	103.87	-24.734	79.136	--	--
2483.5	62.24	-24.734	37.506	-16.494	54.000

Site :HY-CB03
 Condition :3m ,Vertical
 Mode :TX_BT1M_2480MHz
 Test BY :Ashton



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2480.000	99.61	-----	-----	69.22	30.39	Peak
2	2483.500	57.77	74.00	-16.23	27.33	30.44	Peak

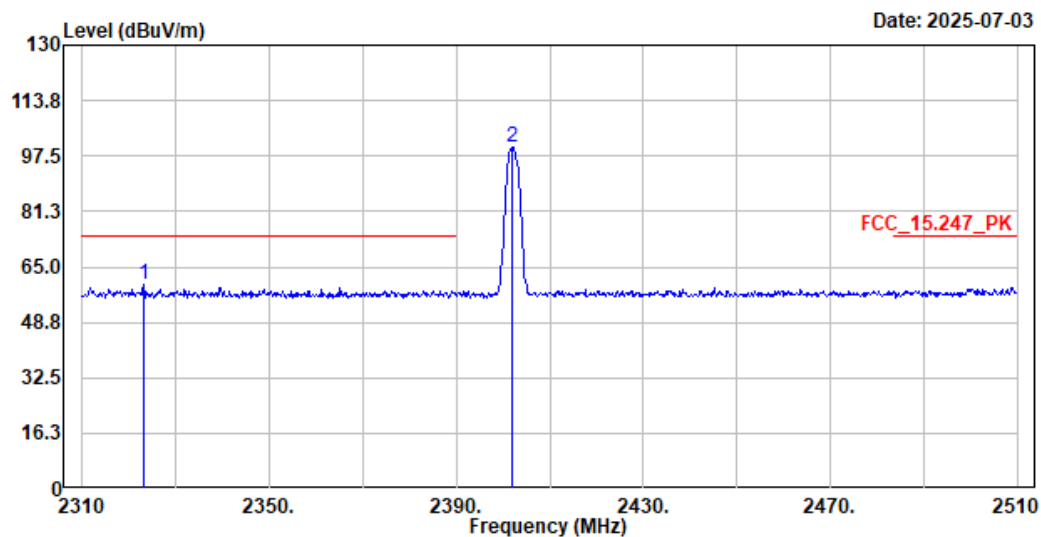
Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Vertical-Average Detector:

Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Measurement Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)
2480.0	99.61	-24.734	74.876	--	--
2483.5	57.77	-24.734	33.036	-20.964	54.000

Site :HY-CB03
 Condition :3m ,Horizontal
 Mode :TX_BT3M_2402MHz
 Test BY :Ashton



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB/m	
1	2323.200	59.70	74.00	-14.30	29.12	30.58	Peak
2	2402.000	100.05	-----	-----	69.59	30.46	Peak

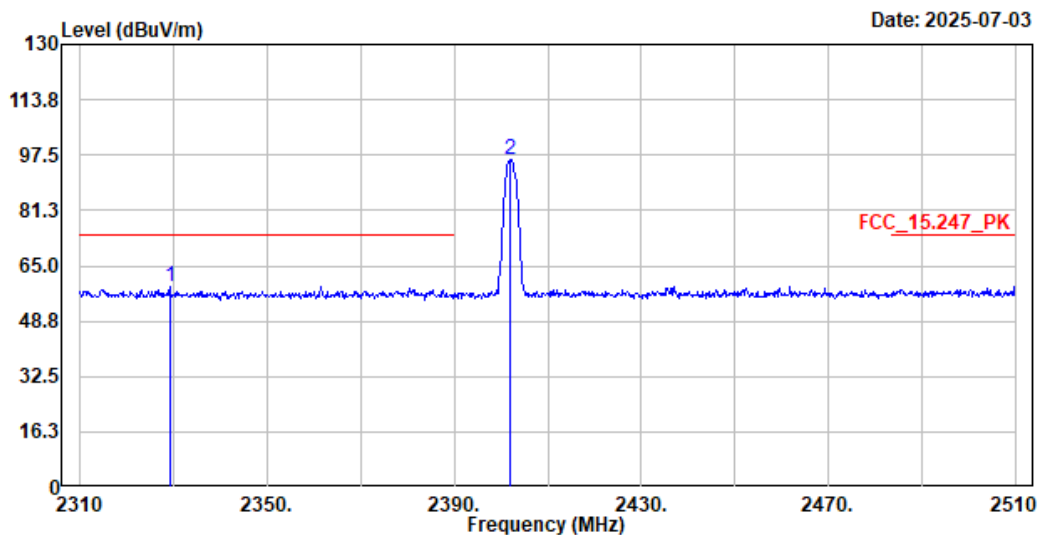
Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Horizontal-Average Detector:

Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Measurement Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)
2323.2	59.70	-25.180	34.520	-19.480	54.000
2402.0	100.05	-25.180	74.870	--	--

Site :HY-CB03
 Condition :3m ,Vertical
 Mode :TX_BT3M_2402MHz
 Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2329.200	58.92	74.00	-15.08	28.40	30.52	Peak
2	2402.000	96.17	-----	-----	65.71	30.46	Peak

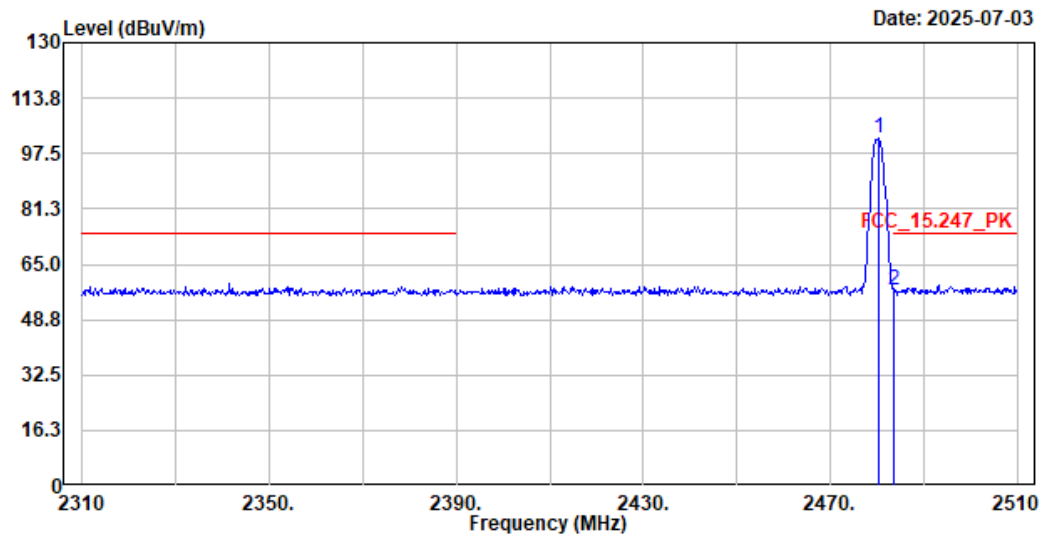
Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Vertical-Average Detector:

Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Measurement Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)
2329.2	58.92	-25.180	33.740	-20.260	54.000
2402.0	96.17	-25.180	70.990	--	--

Site :HY-CB03
 Condition :3m ,Horizontal
 Mode :TX_BT3M_2480MHz
 Test BY :Ashton



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB/m	
1	2480.200	101.81	-----	-----	71.42	30.39	Peak
2	2483.500	57.31	74.00	-16.69	26.87	30.44	Peak

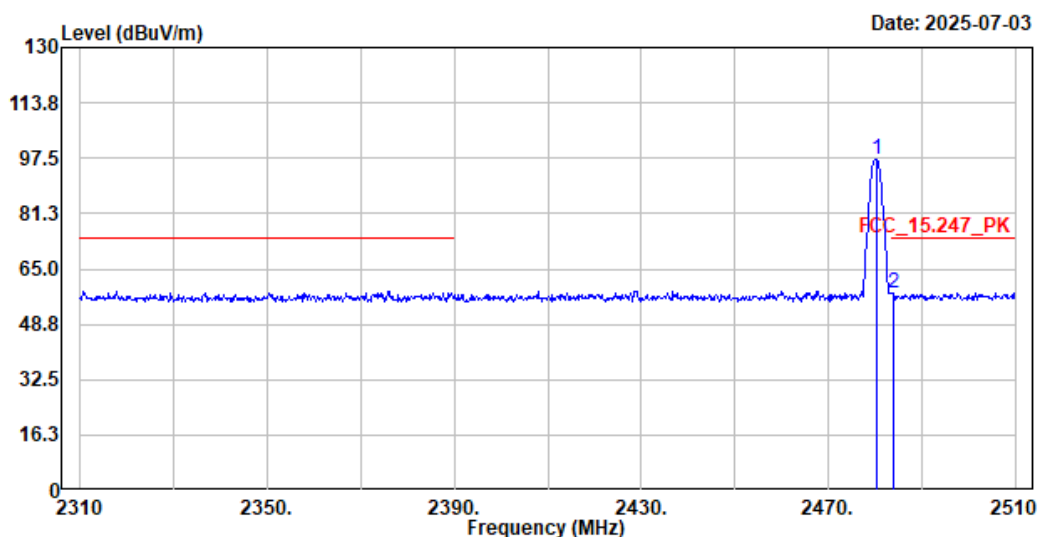
Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Horizontal-Average Detector:

Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Measurement Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)
2480.2	101.81	-25.180	76.630	--	--
2483.5	57.31	-25.180	32.130	-21.870	54.000

Site :HY-CB03
 Condition :3m ,Vertical
 Mode :TX_BT3M_2480MHz
 Test BY :Ashton



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB/m	
1	2480.200	97.22	-----	-----	66.83	30.39	Peak
2	2483.800	57.88	74.00	-16.12	27.44	30.44	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Vertical-Average Detector:

Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Measurement Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)
2480.2	97.22	-25.180	72.040	--	--
2483.8	57.88	-25.180	32.700	-21.300	54.000