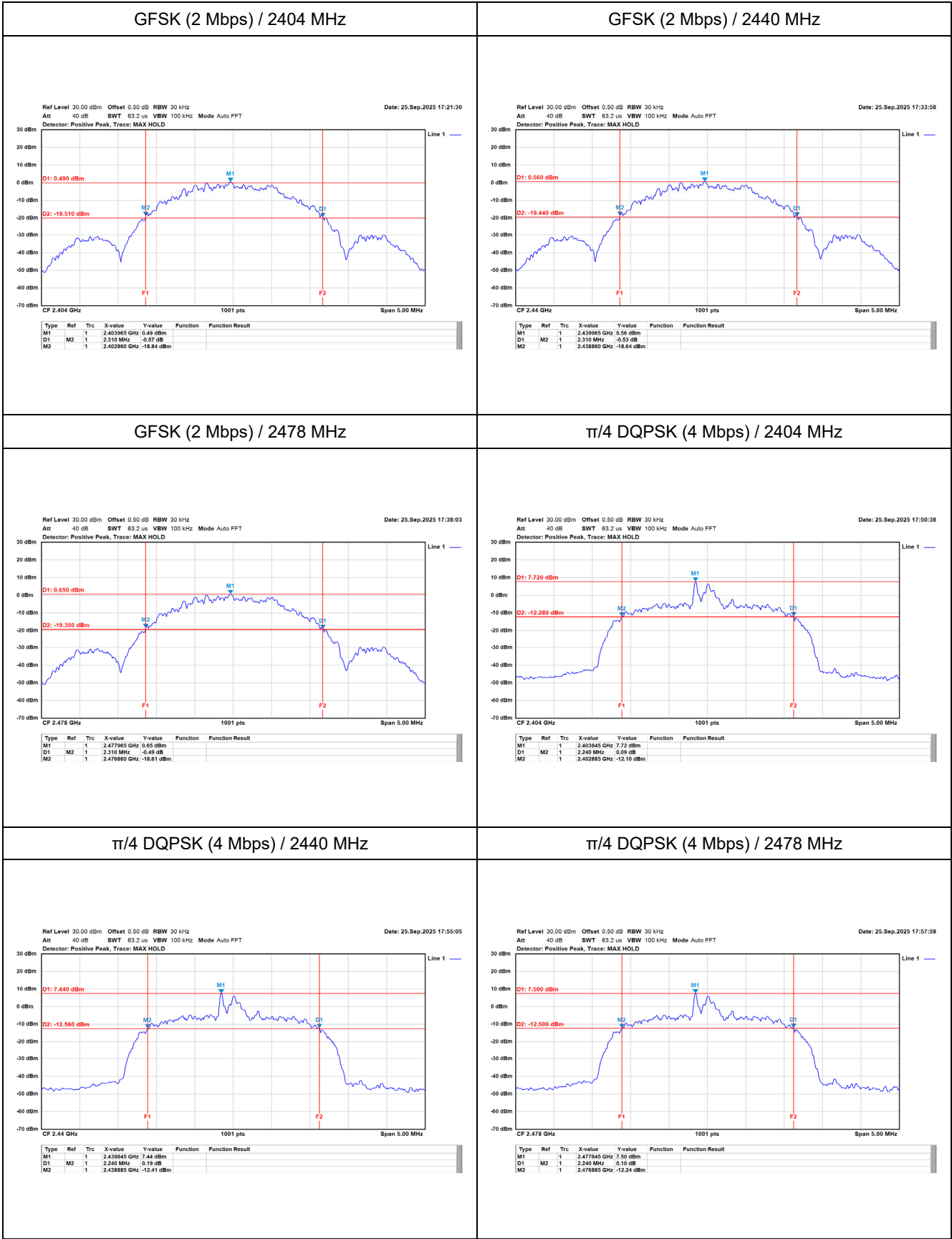


Appendix A. Test Result of AC Power Line Conducted Emission

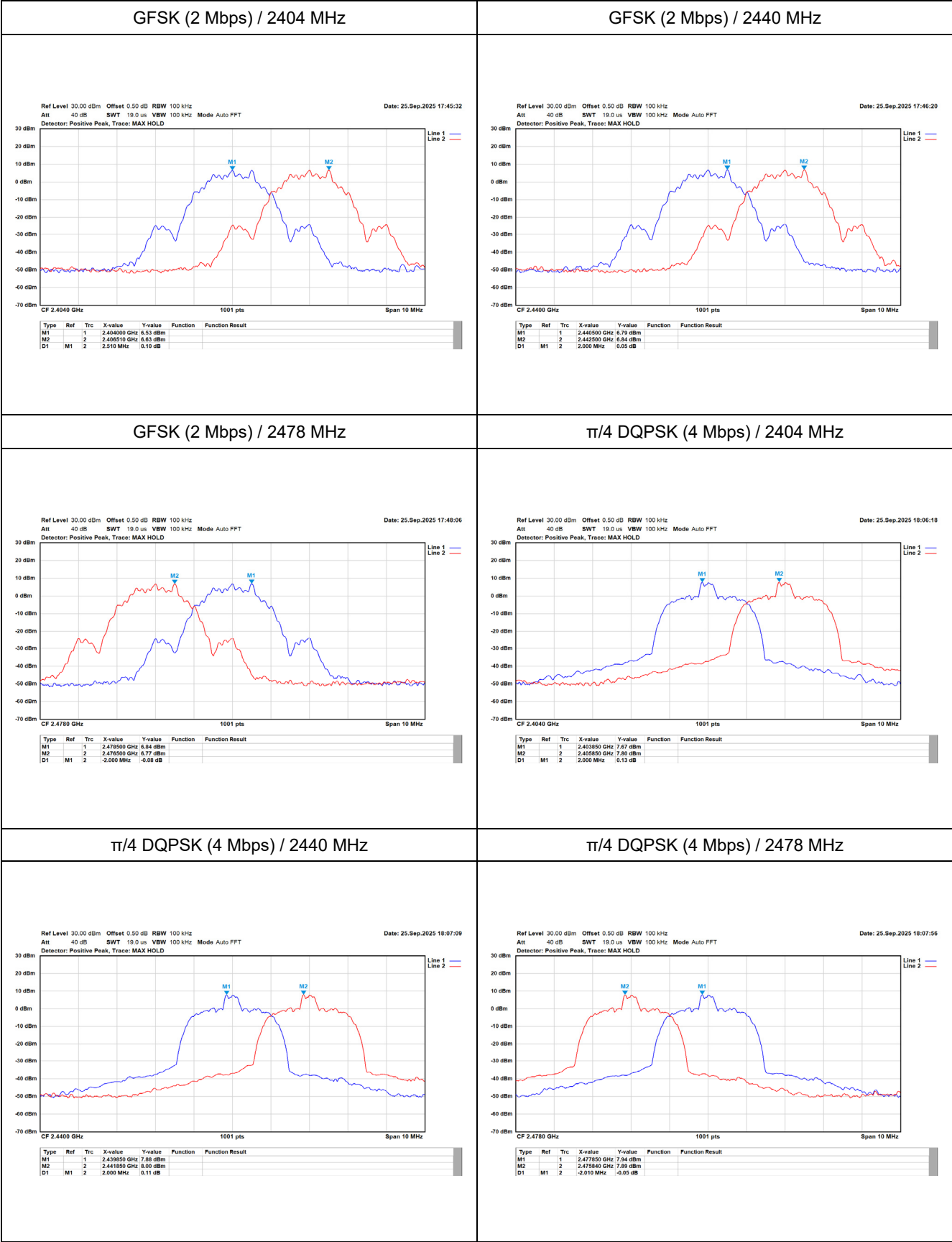
Appendix B. Test Result of 20dB Bandwidth

Modulation	Frequency (MHz)	20dB Bandwidth (MHz)	Limit (MHz)
GFSK (2 Mbps)	2404	2.31	-
	2440	2.31	-
	2478	2.31	-
$\pi/4$ DQPSK (4 Mbps)	2404	2.24	-
	2440	2.24	-
	2478	2.24	-



Appendix C. Test Result of Carrier Frequency Separation

Modulation	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
GFSK (2 Mbps)	2404	2.50	1.540	Pass
	2440	2.00	1.540	Pass
	2478	2.00	1.540	Pass
$\pi/4$ DQPSK (4 Mbps)	2404	2.00	1.493	Pass
	2440	2.00	1.493	Pass
	2478	2.00	1.493	Pass

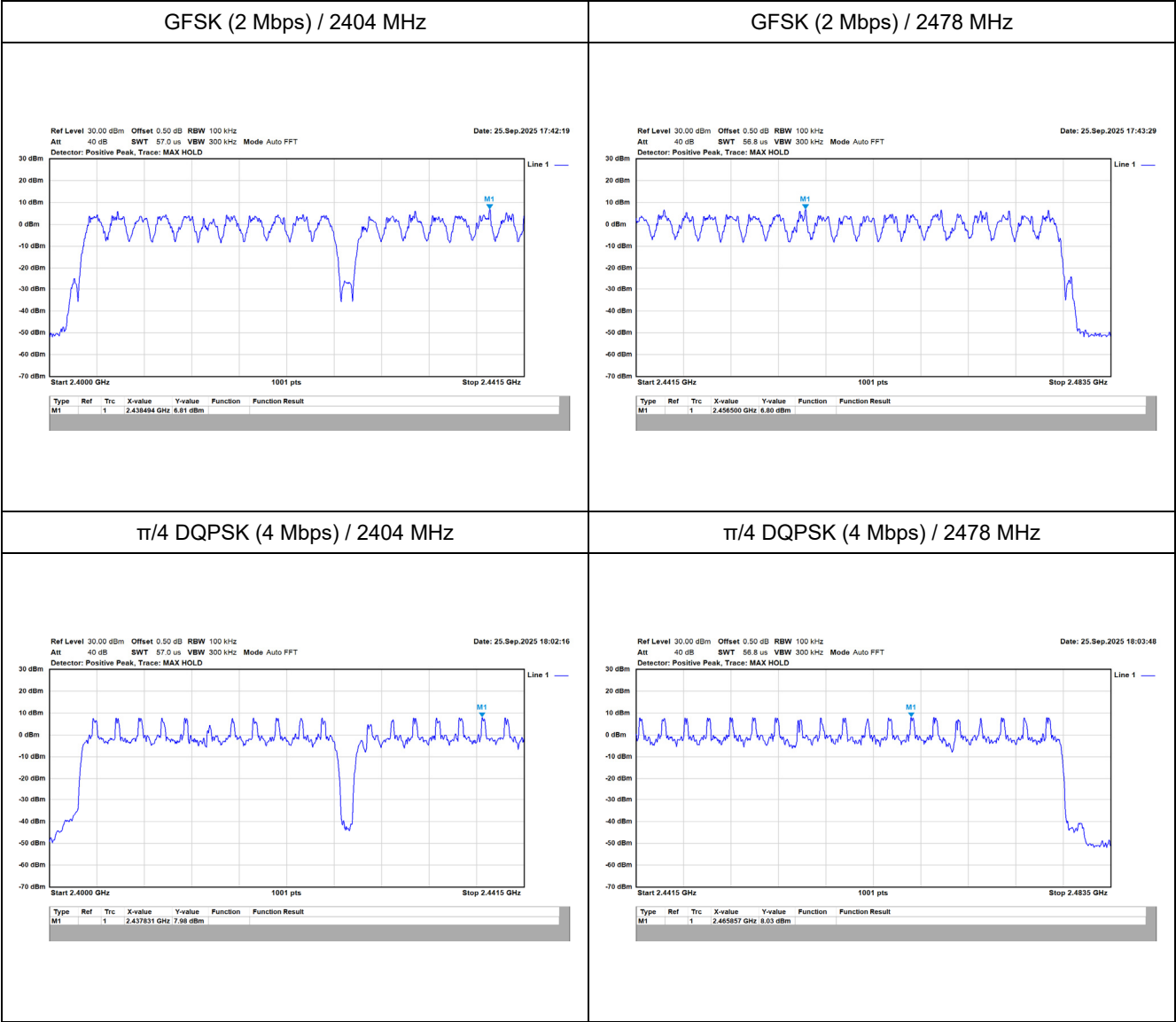


Appendix D. Test Result of Maximum Peak Conducted Output Power

Modulation	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)	Limit (dBm)	Result
GFSK (2 Mbps)	2404	9.78	21.00	Pass
	2440	9.89	21.00	Pass
	2478	9.90	21.00	Pass
$\pi/4$ DQPSK (4 Mbps)	2404	10.35	21.00	Pass
	2440	9.94	21.00	Pass
	2478	9.98	21.00	Pass

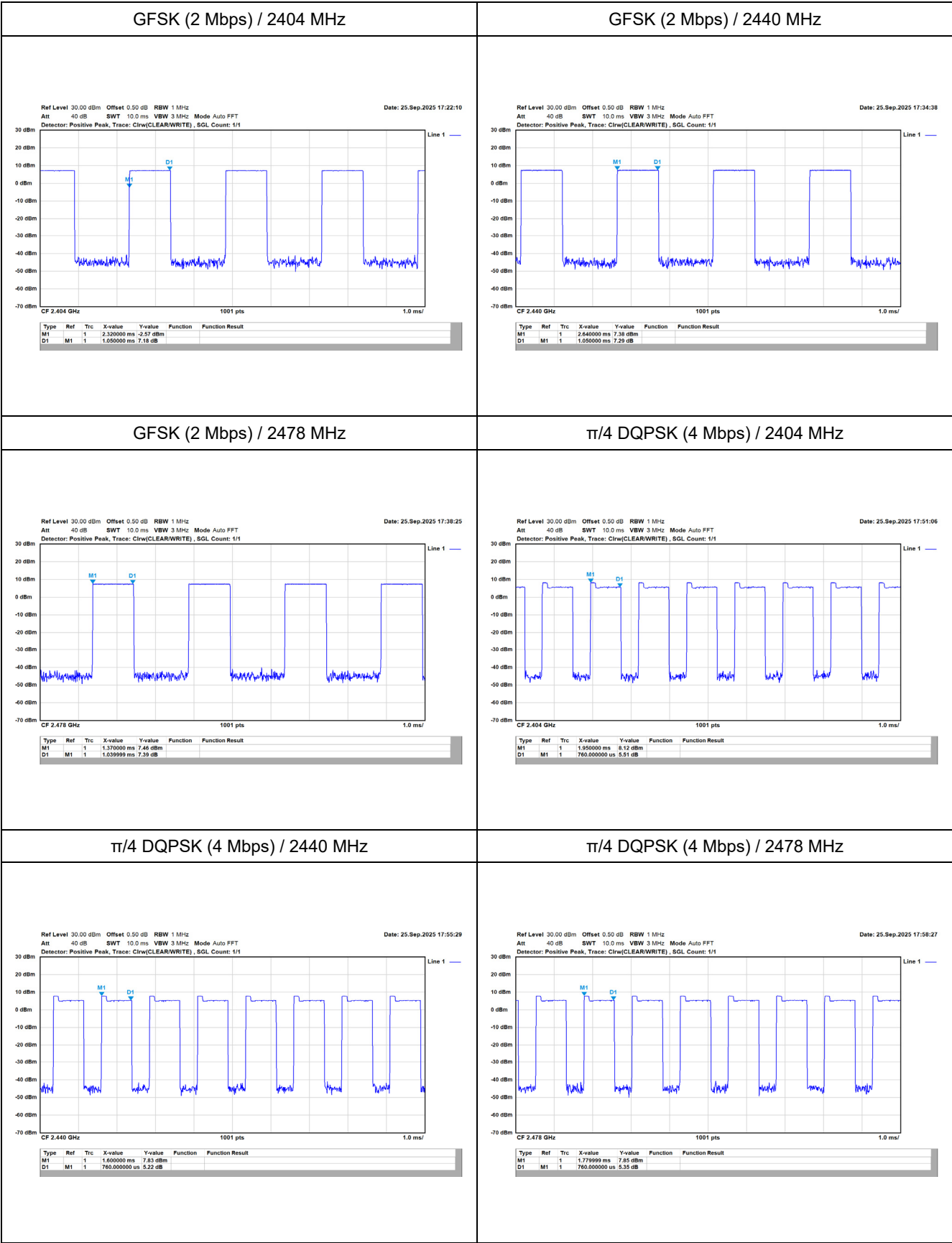
Appendix E. Test Result of Number of Hopping Frequency

Frequency (MHz)	Measure Level (Channels)	Limit (Channels)
2404.0 ~ 2478.0	37	$\geq$ 15



Appendix F. Test Result of Dwell Time

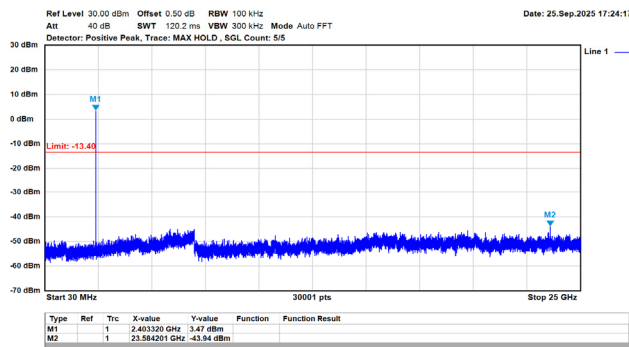
Modulation	Occupancy Time of Frequency Hopping System
GFSK (2 Mbps)	A) 2404 MHz Test Time Period: $0.4 \times 37 = 31.60$ sec, Time slot length :1.05 = 0.001050 sec
	Dwell Time : $0.001050 \times (266.67/37) \times 31.60 = 0.112$ sec °
	B) 2440 MHz Test Time Period: $0.4 \times 37 = 31.60$ sec, Time slot length :1.05 = 0.001050 sec
	Dwell Time : $0.001050 \times (266.67/37) \times 31.60 = 0.112$ sec °
	C) 2478 MHz Test Time Period: $0.4 \times 37 = 31.60$ sec, Time slot length :1.04 = 0.001040 sec
$\pi/4$ DQPSK (4 Mbps)	Dwell Time : $0.001040 \times (266.67/37) \times 31.60 = 0.111$ sec °
	A) 2404 MHz Test Time Period: $0.4 \times 37 = 31.60$ sec, Time slot length :760 = 0.760000 sec
	Dwell Time : $0.760000 \times (266.67/37) \times 31.60 = 81.068$ sec °
	B) 2440 MHz Test Time Period: $0.4 \times 37 = 31.60$ sec, Time slot length :760 = 0.760000 sec
	Dwell Time : $0.760000 \times (266.67/37) \times 31.60 = 81.068$ sec °
	C) 2478 MHz Test Time Period: $0.4 \times 37 = 31.60$ sec, Time slot length :760 = 0.760000 sec
	Dwell Time : $0.760000 \times (266.67/37) \times 31.60 = 81.068$ sec °
Test Result: The occupancy time of each highest, middle and lowest channel is less than 0.4 sec, and corresponds to the standard.	



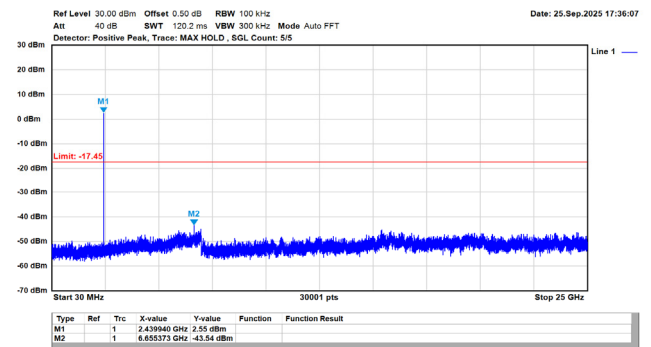
Appendix G. Test Result of Antenna Port Conducted Emission

Modulation	Measurement Level Δ (dB)	Result
GFSK (2 Mbps)	> 20	Pass
$\pi/4$ DQPSK (4 Mbps)	> 20	Pass

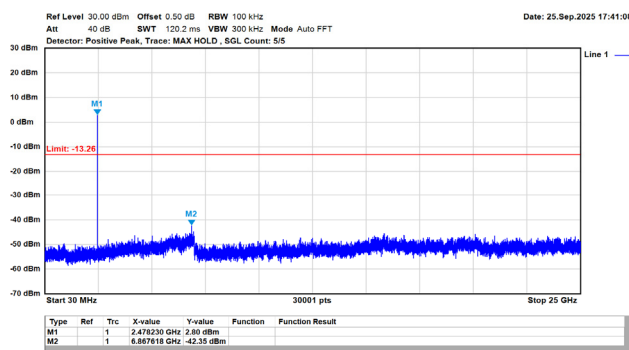
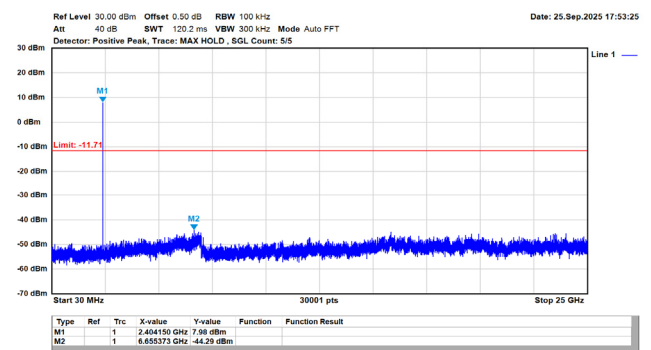
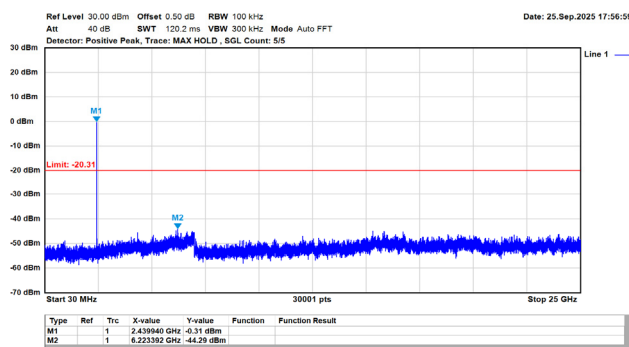
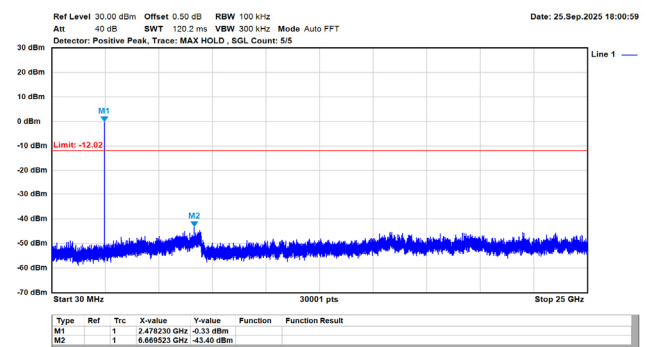
GFSK (2 Mbps) / 2404 MHz

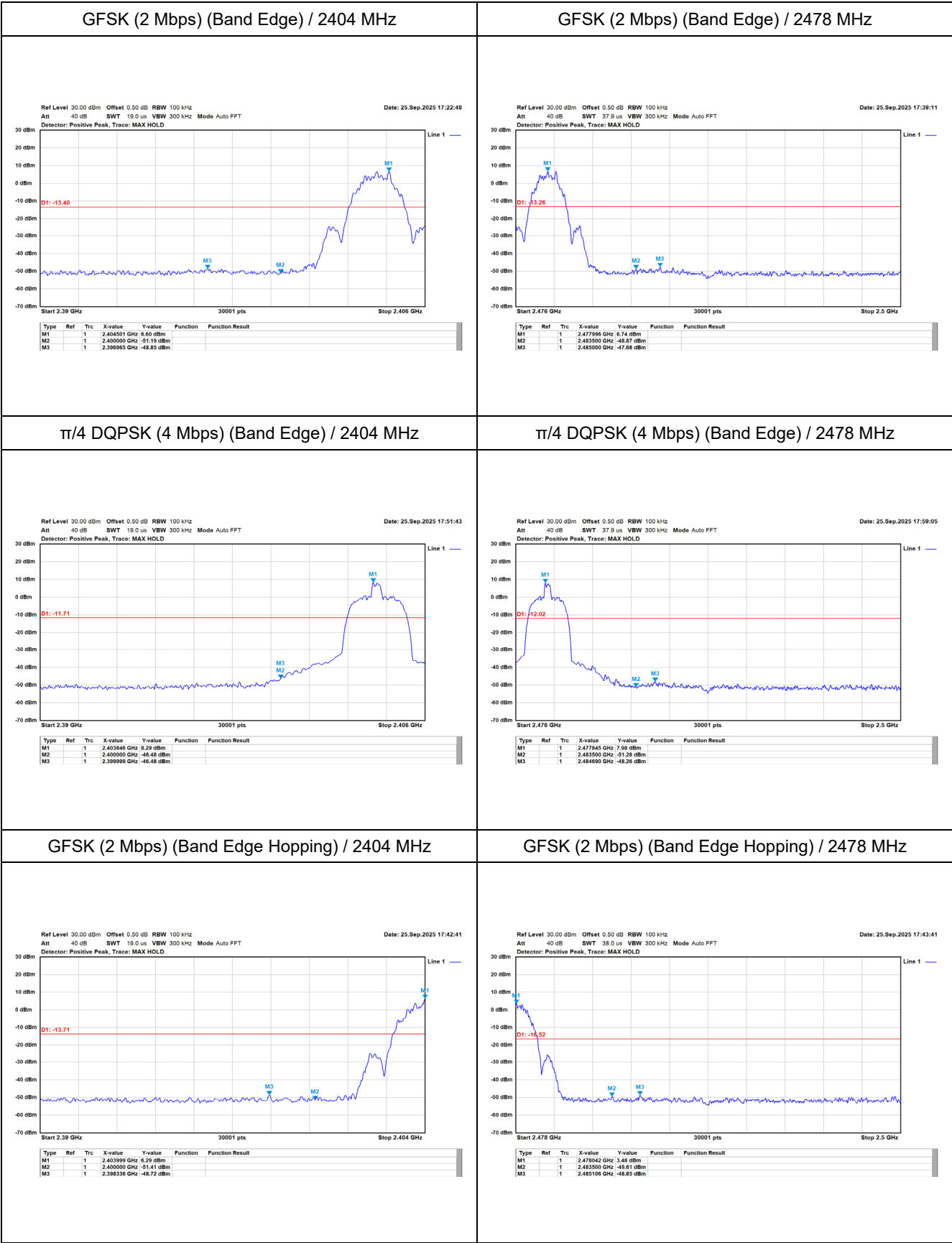


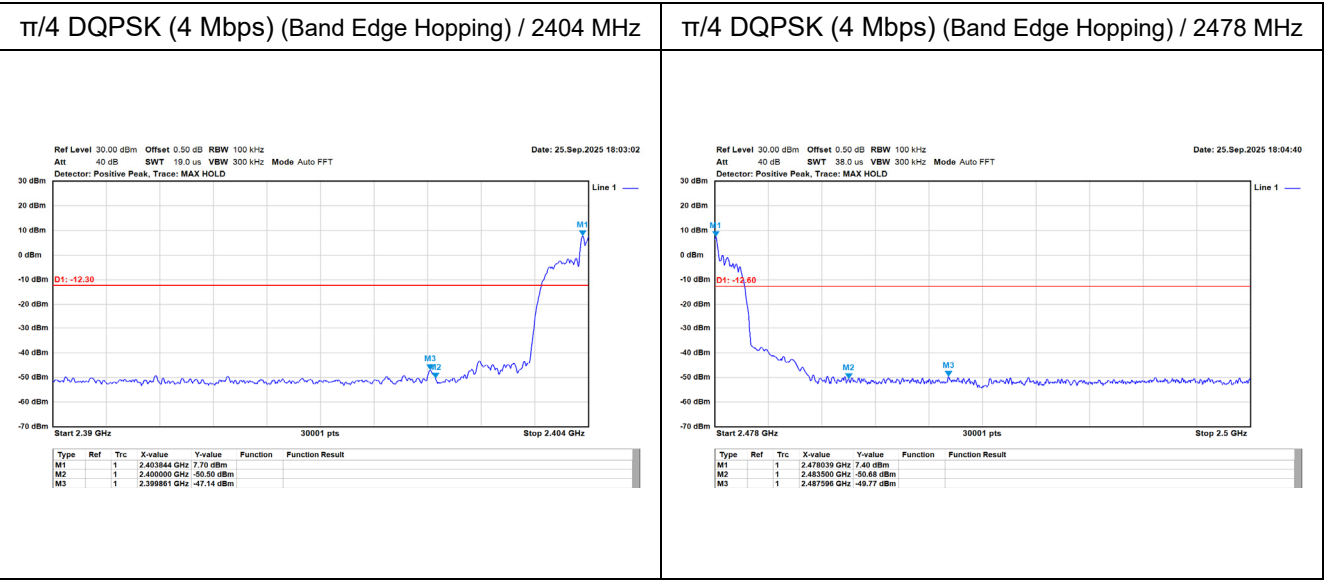
GFSK (2 Mbps) / 2440 MHz



GFSK (2 Mbps) / 2478 MHz

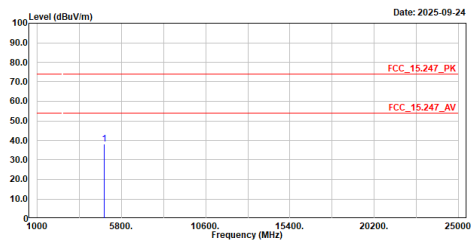
 $\pi/4$ DQPSK (4 Mbps) / 2404 MHz $\pi/4$ DQPSK (4 Mbps) / 2440 MHz $\pi/4$ DQPSK (4 Mbps) / 2478 MHz





Appendix H. Test Result of Radiated Emission

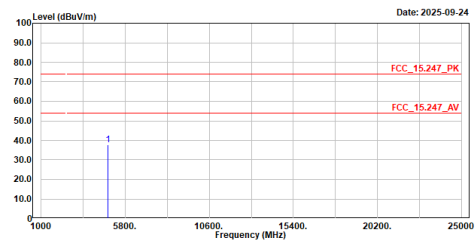
Site :HY-CB02
Condition :3m ,HORIZONTAL
mode :TX_2M_240MHz
Test by :Caster



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB/m	
1	4888.000	38.09	74.00	-35.91	49.78	-11.69	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.

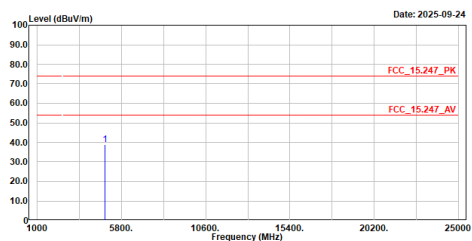
Site :HY-CB02
Condition :3m ,VERTICAL
mode :TX_2M_240MHz
Test by :Caster



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB/m	
1	4888.000	37.79	74.00	-36.21	49.48	-11.69	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.

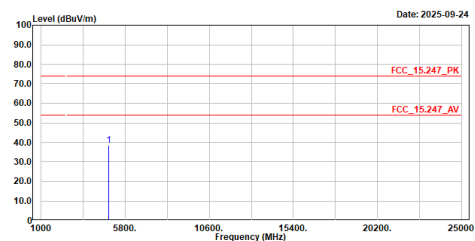
Site :HY-CB02
Condition :3m ,HORIZONTAL
mode :TX_2M_240MHz
Test by :Caster



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB/m	
1	4888.000	38.78	74.00	-35.22	49.95	-11.17	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.

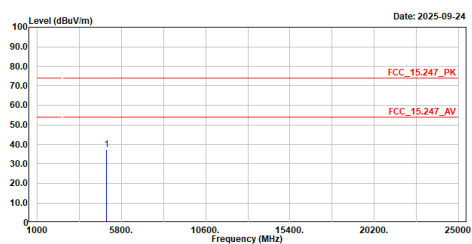
Site :HY-CB02
Condition :3m ,VERTICAL
mode :TX_2M_240MHz
Test by :Caster



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB/m	
1	4888.000	38.63	74.00	-35.37	49.80	-11.17	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.

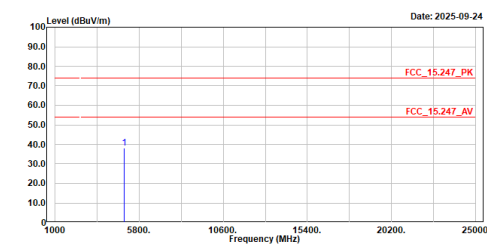
Site :HY-CB02
Condition :3m ,HORIZONTAL
mode :TX_2M_2478MHz
Test by :Caster



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.

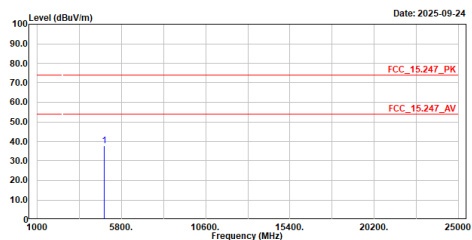
Site :HY-CB02
Condition :3m ,VERTICAL
mode :TX_2M_2478MHz
Test by :Caster



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.

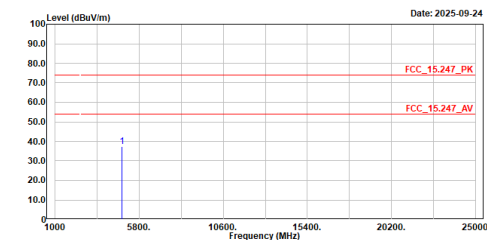
Site :HY-CB02
Condition :3m ,HORIZONTAL
mode :TX_4M_2484MHz
Test by :Caster



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.

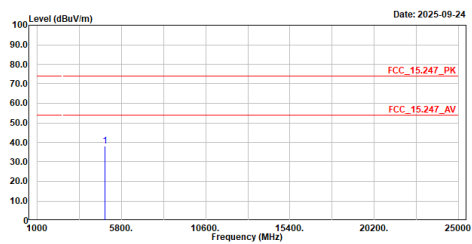
Site :HY-CB02
Condition :3m ,VERTICAL
mode :TX_4M_2484MHz
Test by :Caster



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.

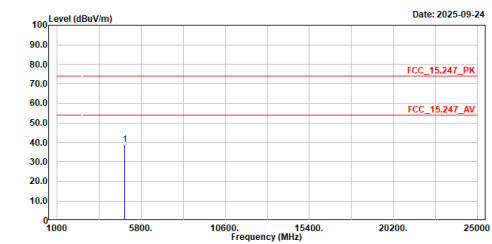
Site :HY-CB02
Condition :3m ,HORIZONTAL
mode :TX_4M_2440MHz
Test by :Caster



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.

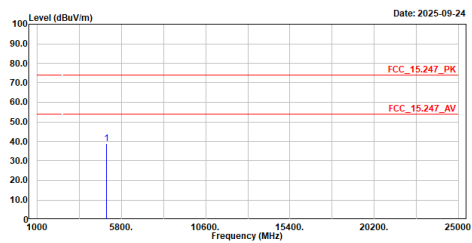
Site :HY-CB02
Condition :3m ,VERTICAL
mode :TX_4M_2440MHz
Test by :Caster



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.

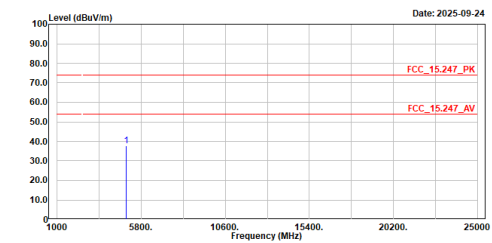
Site :HY-CB02
Condition :3m ,HORIZONTAL
mode :TX_4M_2478MHz
Test by :Caster



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.

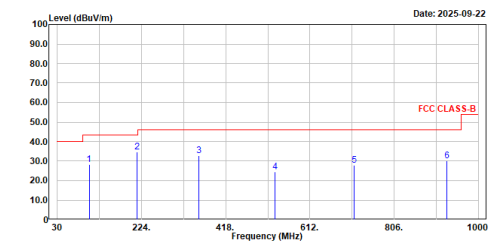
Site :HY-CB02
Condition :3m ,VERTICAL
mode :TX_4M_2478MHz
Test by :Caster



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-CB02
Condition :3m ,HORIZONTAL
mode :TX_4M_2440MHz
Test by :Caster

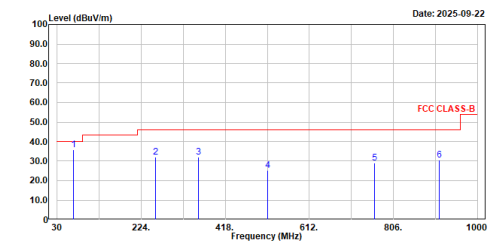


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	Mhz	dBuV/m	Line	Limit	Level		
				dB	dBuV	dB/m	
1	103.526	28.24	43.50	-15.26	42.78	-14.54	QP
2	214.494	34.87	43.50	-8.63	48.36	-13.49	QP
3	356.890	32.08	46.00	-13.12	41.94	-9.06	QP
4	531.005	24.47	46.00	-21.53	29.43	-4.96	QP
5	713.462	27.82	46.00	-18.18	29.52	-1.70	QP
6	926.959	30.18	46.00	-15.82	29.32	0.86	QP

Note:

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

Site :HY-CB02
Condition :3m ,VERTICAL
mode :TX_4M_2440MHz
Test by :Caster

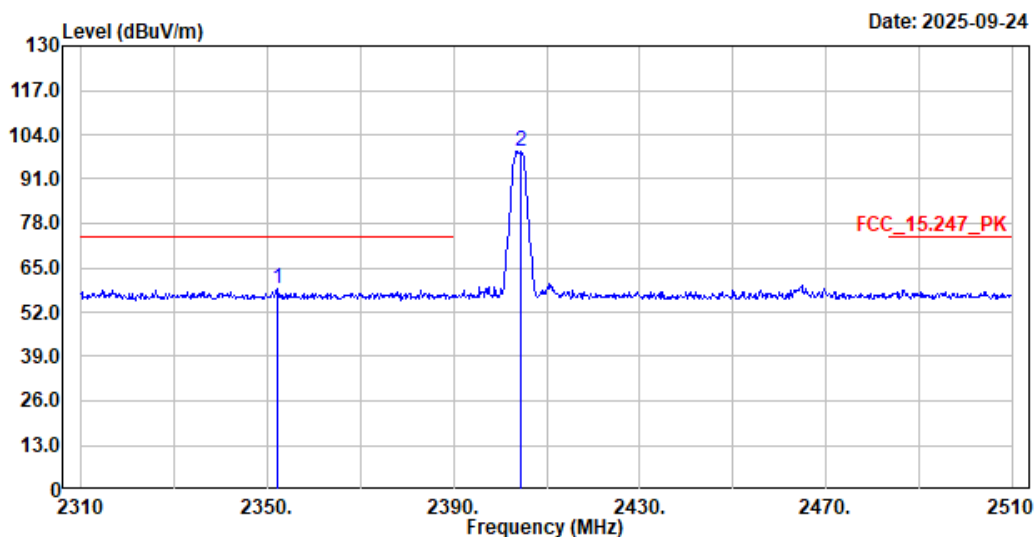


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	Mhz	dBuV/m	Line	Limit	Level		
				dB	dBuV	dB/m	
1	67.636	35.68	48.00	-4.32	48.04	-12.36	QP
2	257.077	32.05	46.00	-13.95	43.84	-11.79	QP
3	356.890	32.21	46.00	-13.79	41.27	-9.06	QP
4	516.164	25.16	46.00	-20.84	30.23	-5.07	QP
5	762.641	28.93	46.00	-17.07	29.73	-0.80	QP
6	911.536	30.44	46.00	-15.56	29.86	0.58	QP

Note:

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

Site :HY-CB02
 Condition :3m ,Horizontal
 mode :TX_2M_2404MHz
 Test by :Caster



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2352.200	58.73	74.00	-15.27	28.40	30.33	Peak
2	2404.600	99.15	-----	-----	68.86	30.29	Peak

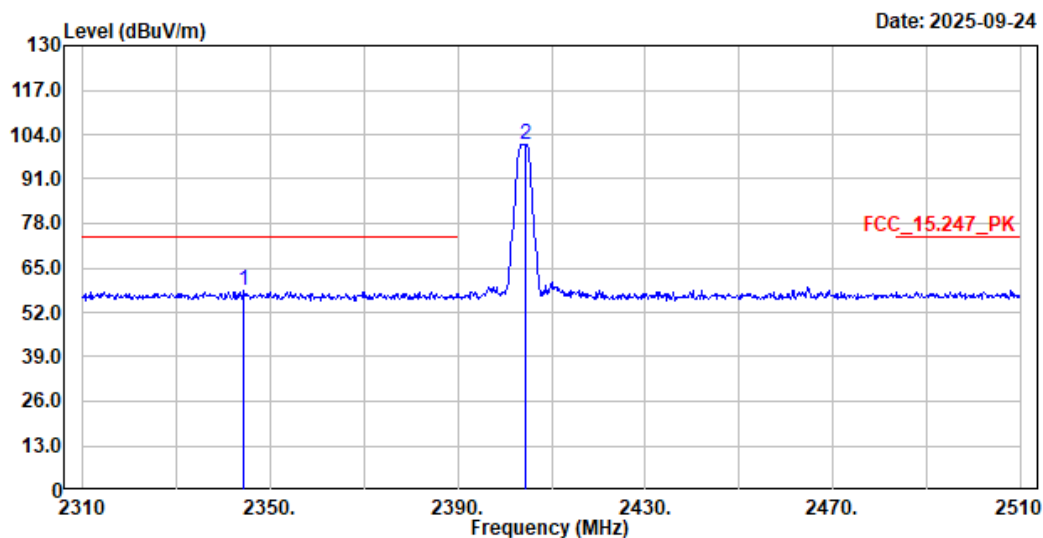
Note:

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)
2352.2	58.73	-40.000	18.730	-35.270	54.000
2404.6	99.15	-40.000	59.150	--	--

Site :HY-CB02
 Condition :3m ,VERTICAL
 mode :TX_2M_2404MHz
 Test by :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2344.400	58.49	74.00	-15.51	28.16	30.33	Peak
2	2404.600	101.17	-----	-----	70.88	30.29	Peak

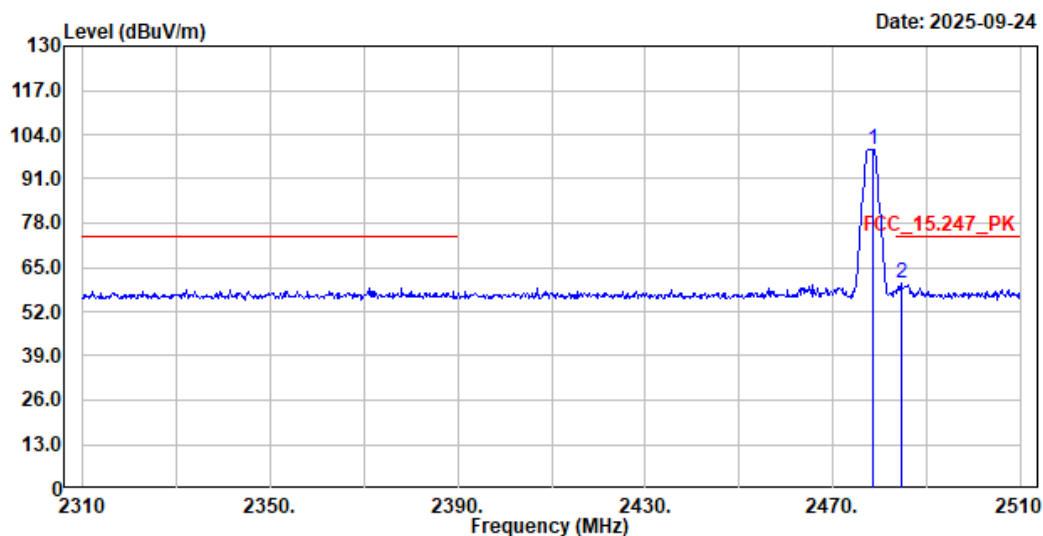
Note:

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	Peak Measurement	Duty Cycle Factor	Measurement Level	Margin	Limit
2344.4	58.49	-40.000	18.490	-35.510	54.000
2404.6	101.17	-40.000	61.170	--	--

Site :HY-CB02
 Condition :3m ,Horizontal
 mode :TX_2M_2478MHz
 Test by :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2478.600	99.74	-----	-----	69.48	30.26	Peak
2	2484.600	60.15	74.00	-13.85	29.84	30.31	Peak

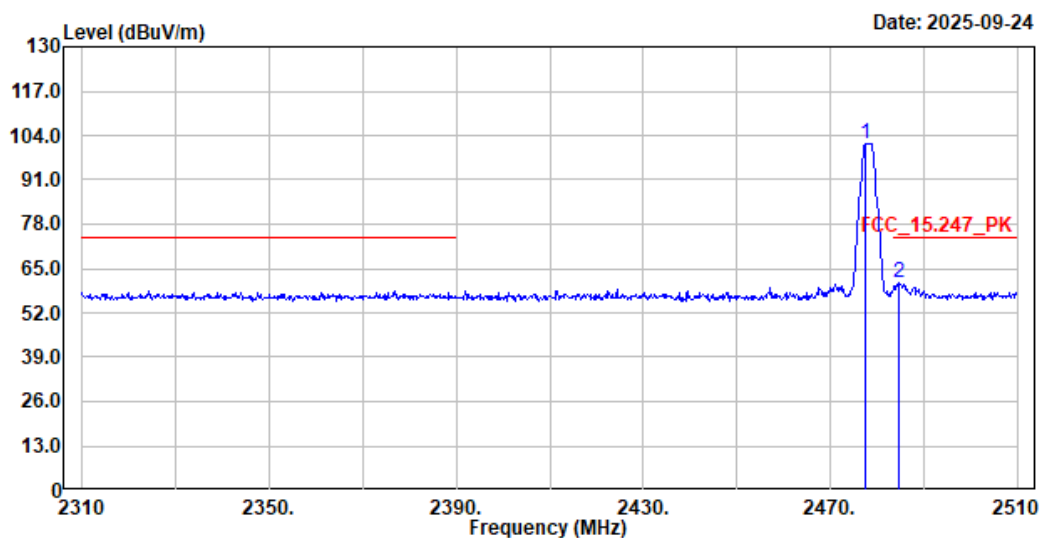
Note:

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)
2478.6	99.74	-40.000	59.740	--	--
2484.6	60.15	-40.000	20.150	-33.850	54.000

Site :HY-CB02
 Condition :3m ,VERTICAL
 mode :TX_2M_2478MHz
 Test by :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2477.600	101.68	-----	-----	71.42	30.26	Peak
2	2484.600	60.71	74.00	-13.29	30.40	30.31	Peak

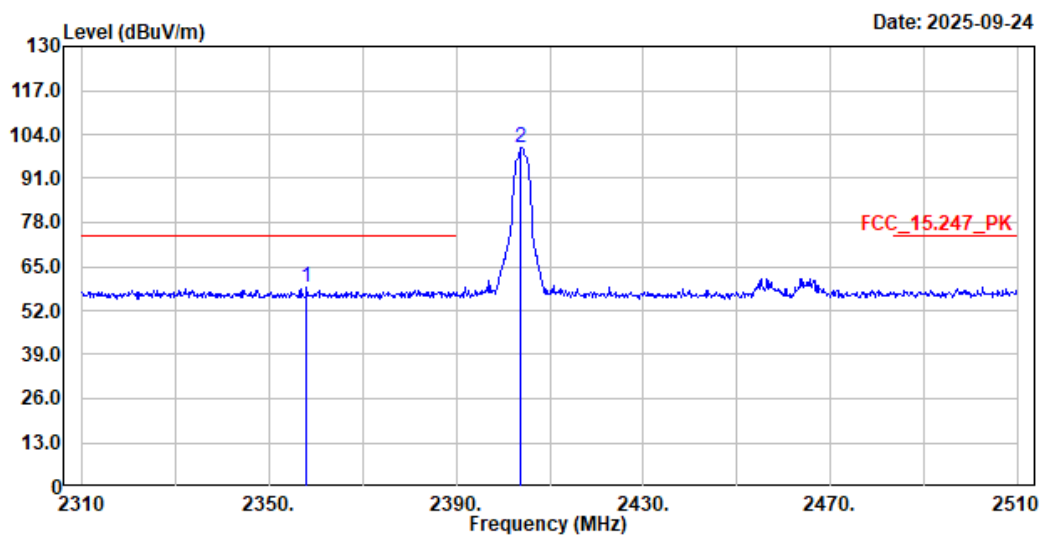
Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit
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 (dB μ V/m)	Duty Cycle Factor (dB)	Measurement Level (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)
2477.6	101.68	-40.000	61.680	--	--
2484.6	60.71	-40.000	20.710	-33.290	54.000

Site :HY-CB02
 Condition :3m ,HORIZONTAL
 mode :TX_4M_2404MHz
 Test by :Caster



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB/m	
1	2358.000	58.99	74.00	-15.01	28.65	30.34	Peak
2	2403.800	99.88	-----	-----	69.59	30.29	Peak

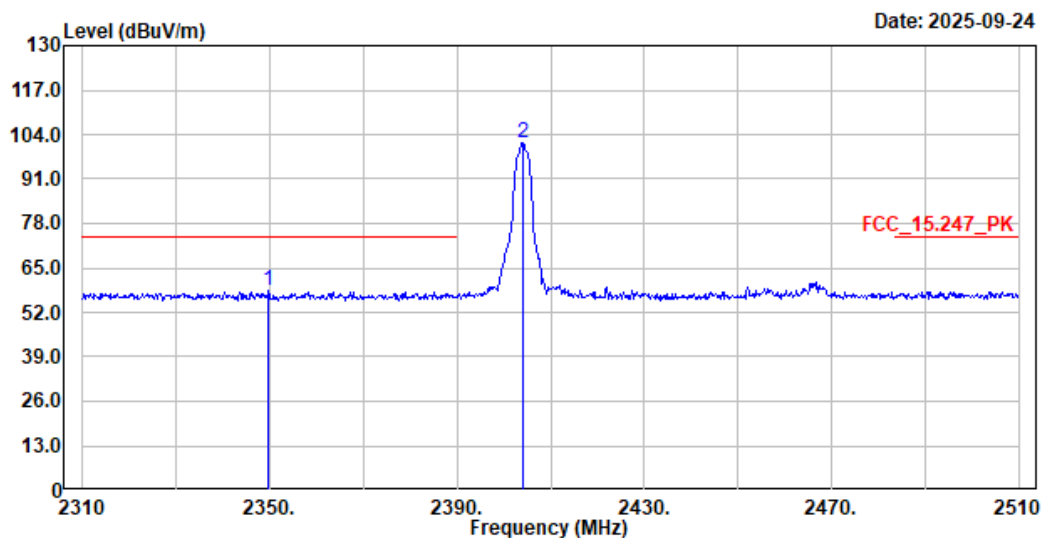
Note:

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)
2358.0	58.99	-35.918	23.072	-30.928	54.000
2403.8	99.88	-35.918	63.962	--	--

Site :HY-CB02
 Condition :3m ,Vertical
 mode :TX_4M_2404MHz
 Test by :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2349.800	58.24	74.00	-15.76	27.91	30.33	Peak
2	2404.200	101.41	-----	-----	71.12	30.29	Peak

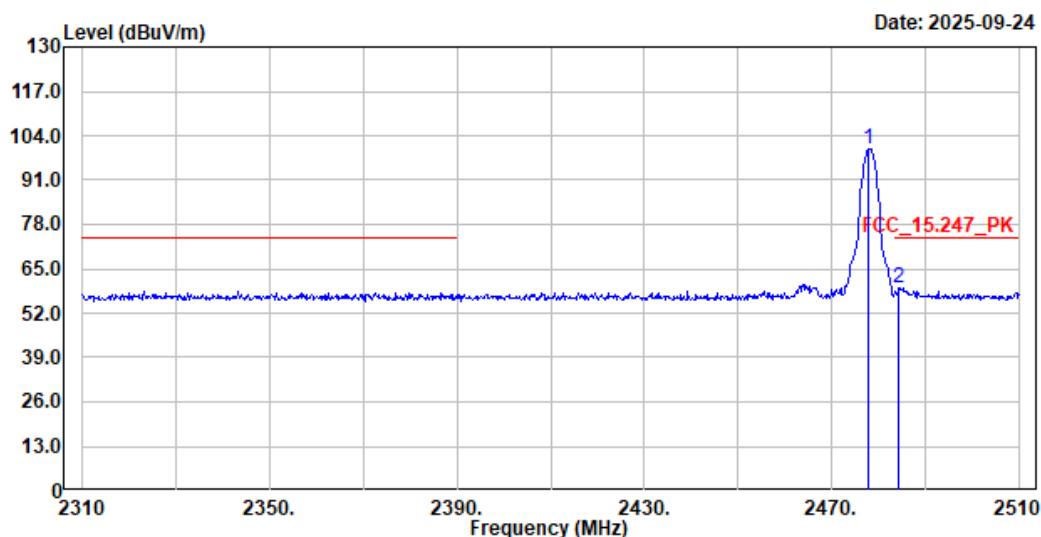
Note:

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 (dB μ V/m)	Duty Cycle Factor (dB)	Measurement Level (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)
2349.8	58.24	-35.918	22.322	-31.678	54.000
2404.2	101.41	-35.918	65.492	--	--

Site :HY-CB02
 Condition :3m ,HORIZONTAL
 mode :TX_4M_2478MHz
 Test by :Caster



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB/m	
1	2478.000	100.24	-----	-----	69.98	30.26	Peak
2	2484.400	59.44	74.00	-14.56	29.14	30.30	Peak

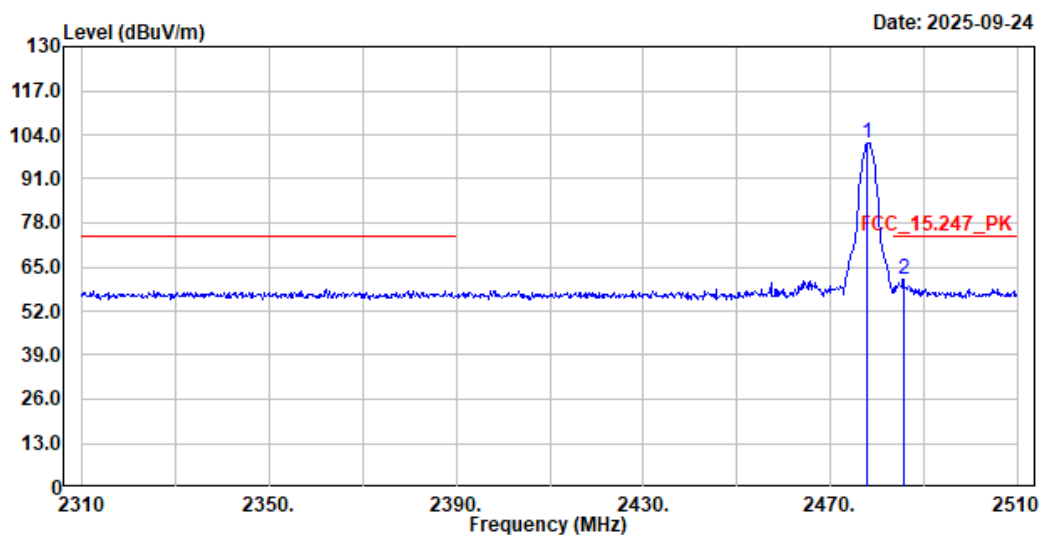
Note:

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)
2478.0	100.24	-35.918	64.322	--	--
2484.4	59.44	-35.918	23.522	-30.478	54.000

Site :HY-CB02
 Condition :3m ,Vertical
 mode :TX_4M_2478MHz
 Test by :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2478.000	101.40	-----	-----	71.14	30.26	Peak
2	2485.600	61.44	74.00	-12.56	31.12	30.32	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)
2478.0	101.4	-35.918	65.482	--	--
2485.6	61.44	-35.918	25.522	-28.478	54.000