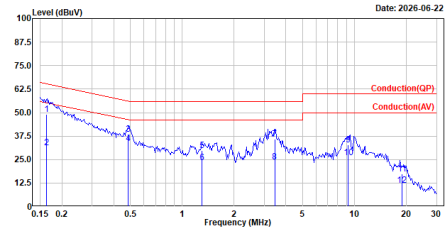
Appendix A. Test Result of AC Power Line Conducted Emission

TX_4M_2440MHz_Line

Site :HY-SR01
Condition :Line
Mode :TX_4M_2440MHz
test by :Michael

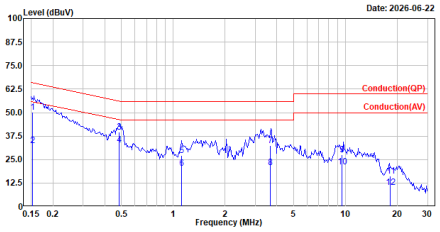


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.163	49.00	65.30	-16.30	39.37	9.63	QP
2	0.163	31.42	55.30	-23.88	21.79	9.63	Average
3	0.487	38.46	56.21	-17.75	28.80	9.66	QP
4	0.487	33.62	46.21	-12.59	23.96	9.66	Average
5	1.303	29.68	56.00	-26.32	20.00	9.68	QP
6	1.303	23.32	46.00	-22.68	13.64	9.68	Average
7	3.442	35.98	56.00	-20.02	26.04	9.94	QP
8	3.442	23.88	46.00	-22.12	13.94	9.94	Average
9	9.189	32.97	60.00	-27.03	22.78	10.19	QP
10	9.189	25.85	50.00	-24.15	15.66	10.19	Average
11	18.806	17.45	60.00	-42.55	7.57	9.88	QP
12	18.806	11.29	50.00	-38.71	1.41	9.88	Average

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

TX_4M_2440MHz_Neutral

Site :HY-SR01
Condition :Neutral
Mode :TX_4M_2440MHz
test by :Michael

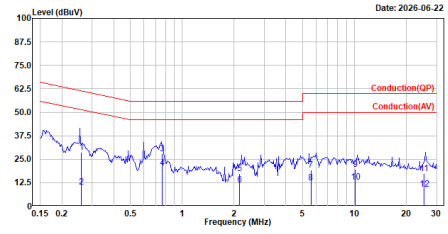


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.153	50.36	65.84	-15.48	40.72	9.64	QP
2	0.153	32.45	55.84	-23.39	22.81	9.64	Average
3	0.487	39.49	56.21	-16.72	29.83	9.66	QP
4	0.487	32.84	46.21	-13.37	23.18	9.66	Average
5	1.120	27.09	56.00	-28.91	17.42	9.67	QP
6	1.120	20.29	46.00	-25.71	10.62	9.67	Average
7	3.646	32.45	56.00	-23.55	22.48	9.97	QP
8	3.646	20.92	46.00	-25.08	10.95	9.97	Average
9	9.569	27.61	60.00	-32.39	17.42	10.19	QP
10	9.569	21.32	50.00	-28.68	11.13	10.19	Average
11	18.260	16.04	60.00	-43.96	6.16	9.88	QP
12	18.260	10.19	50.00	-39.81	0.31	9.88	Average

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

Charging mode_Line

Site :HY-SR01
Condition :Line
Mode :Charging mode
test by :Michael

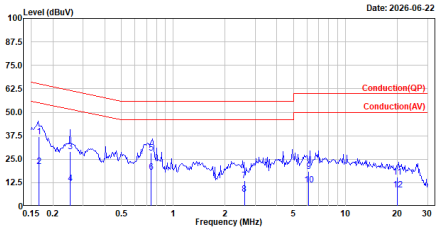


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.259	28.63	61.47	-32.84	18.98	9.65	QP
2	0.259	10.20	51.47	-41.27	0.55	9.65	Average
3	0.766	27.74	56.00	-28.26	18.07	9.67	QP
4	0.766	20.51	46.00	-25.49	10.84	9.67	Average
5	2.155	17.42	56.00	-38.58	7.67	9.75	QP
6	2.155	11.19	46.00	-34.81	1.44	9.75	Average
7	5.583	19.29	60.00	-40.71	9.18	10.11	QP
8	5.583	12.59	50.00	-37.41	2.48	10.11	Average
9	10.119	19.67	60.00	-40.33	9.47	10.20	QP
10	10.119	12.82	50.00	-37.18	2.62	10.20	Average
11	25.290	17.35	60.00	-42.65	7.45	9.90	QP
12	25.290	9.04	50.00	-40.96	-0.86	9.90	Average

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

Charging mode_Neutral

Site :HY-SR01
Condition :Neutral
Mode :Charging mode
test by :Michael



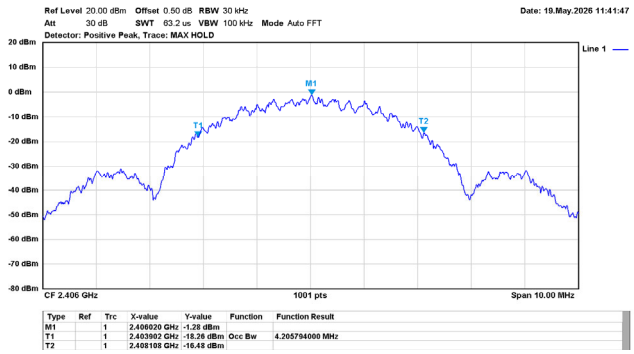
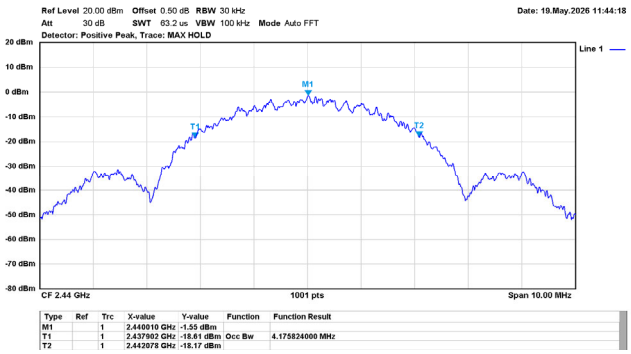
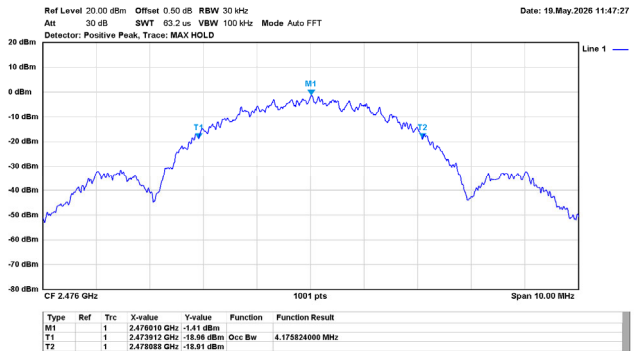
No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.166	37.03	65.17	-28.14	27.39	9.64	QP
2	0.166	21.03	55.17	-34.14	11.39	9.64	Average
3	0.253	29.02	61.67	-32.65	19.36	9.66	QP
4	0.253	12.07	51.67	-39.60	2.41	9.66	Average
5	0.747	28.17	56.00	-27.83	18.51	9.66	QP
6	0.747	18.24	46.00	-27.76	8.58	9.66	Average
7	2.589	13.43	56.00	-42.57	3.62	9.81	QP
8	2.589	6.59	46.00	-39.41	-3.22	9.81	Average
9	6.131	18.62	60.00	-41.38	8.50	10.12	QP
10	6.131	11.41	50.00	-38.59	1.29	10.12	Average
11	19.922	15.45	60.00	-44.55	5.52	9.93	QP
12	19.922	8.75	50.00	-41.25	-1.18	9.93	Average

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

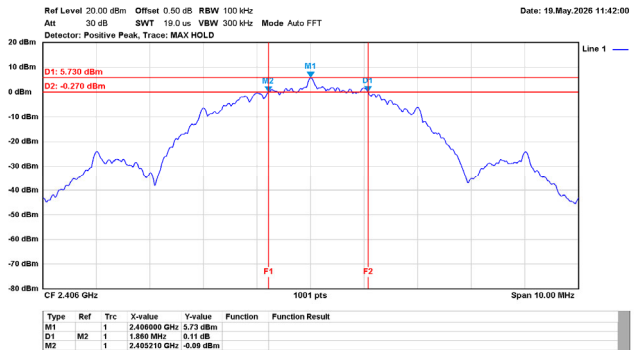
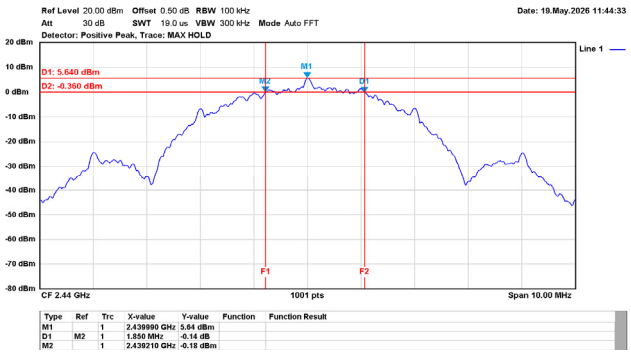
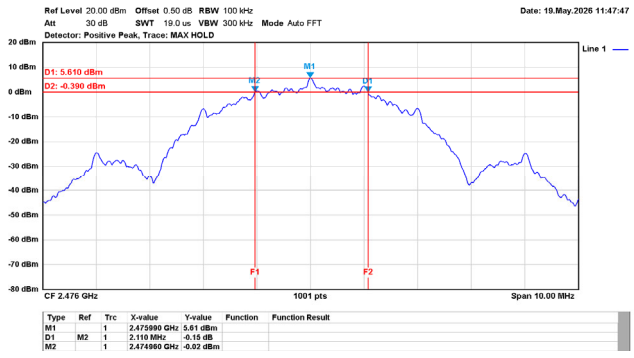
Appendix B. Test Result of Occupied Bandwidth & DTS Bandwidth

Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)	DTS Bandwidth (MHz)	Limit (MHz)	
				99% Occupied Bandwidth	DTS Bandwidth
GFSK (ULL4M)	2406	4.21	1.86	-	≧ 0.5
	2440	4.18	1.85	-	≧ 0.5
	2476	4.18	2.11	-	≧ 0.5

For 99% Occupied Bandwidth:

GFSK/ULL4M/2406MHz/Ch2/Ant.1	GFSK/ULL4M/2440MHz/Ch19/Ant.1
	
GFSK/ULL4M/2476MHz/Ch37/Ant.1	
	

For DTS Bandwidth:

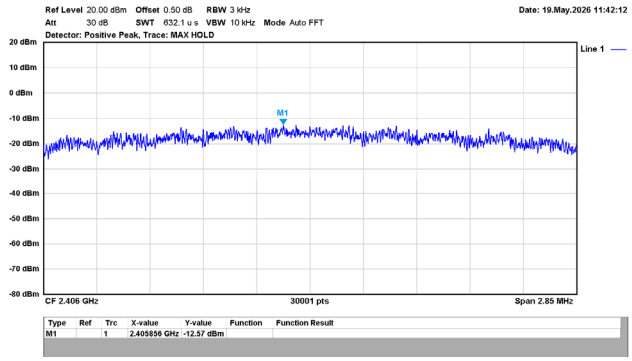
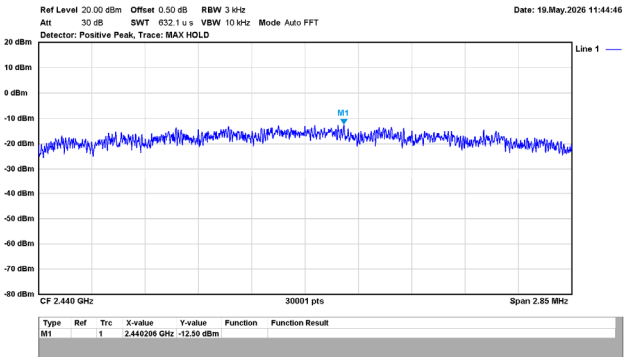
GFSK/ULL4M/2406MHz/Ch2/Ant.1	GFSK/ULL4M/2440MHz/Ch19/Ant.1
	
GFSK/ULL4M/2476MHz/Ch37/Ant.1	
	

Appendix C. Test Result of Maximum Peak Conducted Output Power

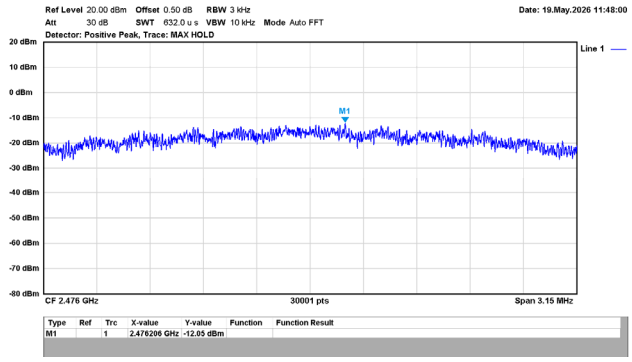
Modulation	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)	Limit (dBm)	Result
PI/4-DQBSK (4Mbps)	2406	7.53	30.00	Pass
	2440	7.51	30.00	Pass
	2476	7.42	30.00	Pass

Appendix D. Test Result of Maximum Power Spectral Density

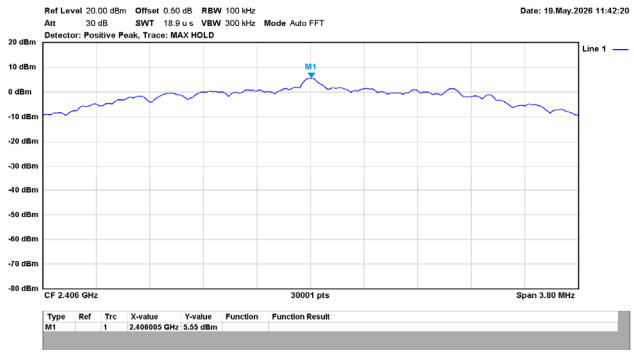
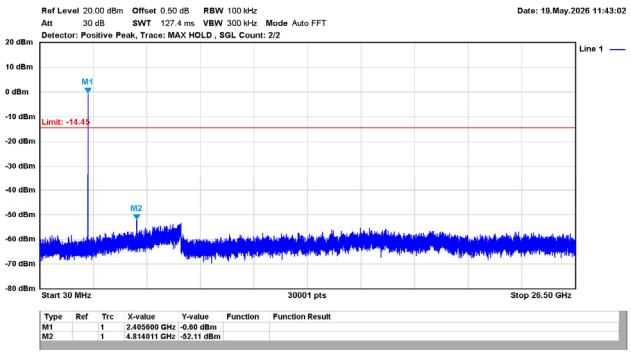
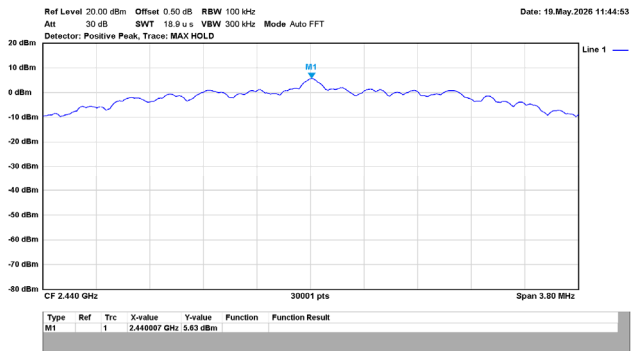
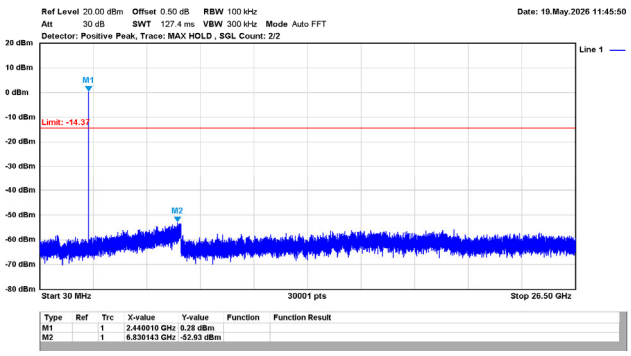
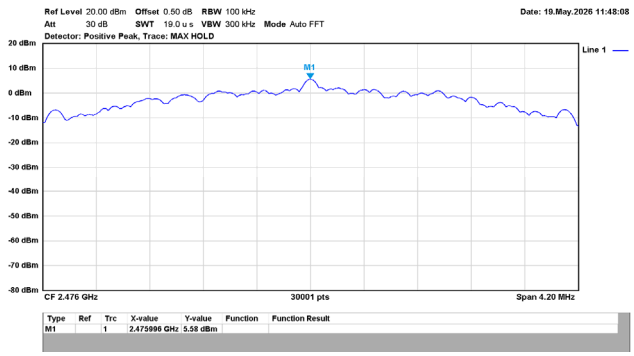
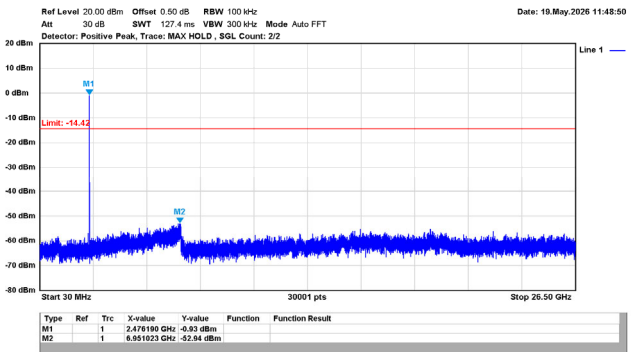
Modulation	Frequency (MHz)	Maximum Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
GFSK (ULL4M)	2406	-12.57	8.00	Pass
	2440	-12.50	8.00	Pass
	2476	-12.05	8.00	Pass

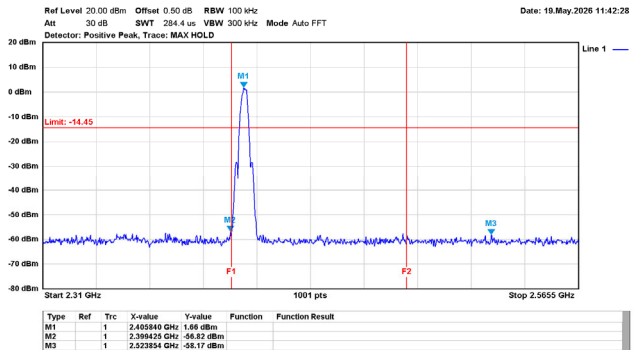
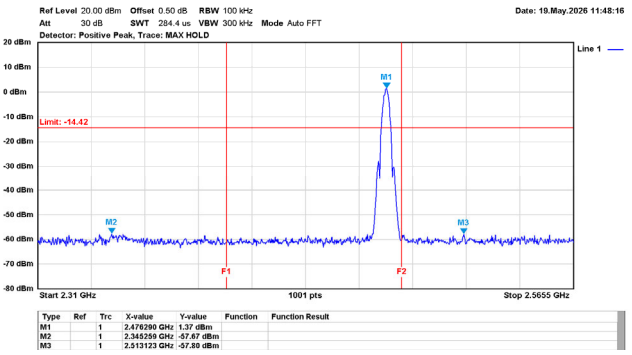
GFSK/ULL4M/2406MHz/Ch2/Ant.1	GFSK/ULL4M/2440MHz/Ch19/Ant.1
	

GFSK/ULL4M/2476MHz/Ch37/Ant.1



Appendix E. Test Result of Antenna Port Conducted Emission

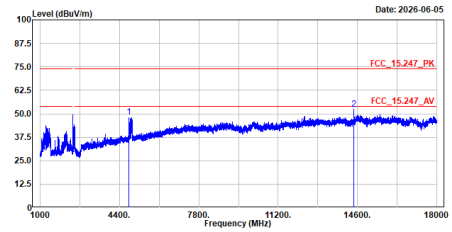
GFSK/ULL4M/2406MHz/Ch2/Ant.1 (Ref.)	GFSK/ULL4M/2406MHz/Ch2/Ant.1
	
GFSK/ULL4M/2440MHz/Ch19/Ant.1 (Ref.)	GFSK/ULL4M/2440MHz/Ch19/Ant.1
	
GFSK/ULL4M/2476MHz/Ch37/Ant.1 (Ref.)	GFSK/ULL4M/2476MHz/Ch37/Ant.1
	

GFSK/ULL4M/2406MHz/Ch2/Ant.1(Band Edge)	GFSK/ULL4M/2476MHz/Ch37/Ant.1(Band Edge)
	

Appendix F. Test Result of Radiated Emission

TX_4M_2406MHz_H

Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_4M_2406MHz
Test BY :Rock

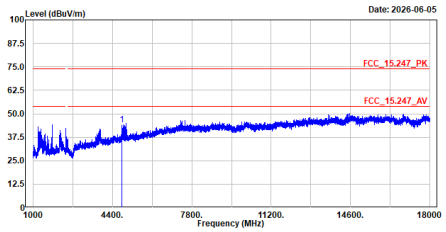


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	4812.000	48.36	74.00	-25.64	63.05	-14.69	Peak
2	14454.650	52.49	74.00	-21.51	51.98	0.51	Peak

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.

TX_4M_2406MHz_V

Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_4M_2406MHz
Test BY :Rock

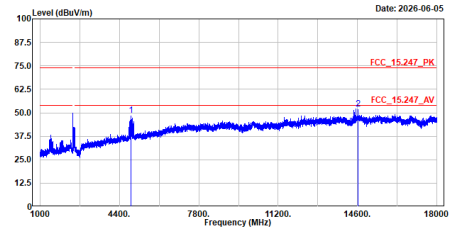


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	4812.000	44.10	74.00	-29.90	58.79	-14.69	Peak

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.

TX_4M_2440MHz_H

Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_4M_2440MHz
Test BY :Rock

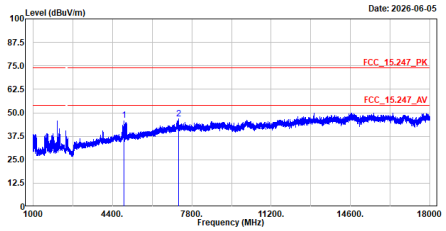


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	4880.000	48.58	74.00	-25.42	63.04	-14.46	Peak
2	14640.000	52.01	74.00	-21.99	51.77	0.24	Peak

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.

TX_4M_2440MHz_V

Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_4M_2440MHz
Test BY :Rock

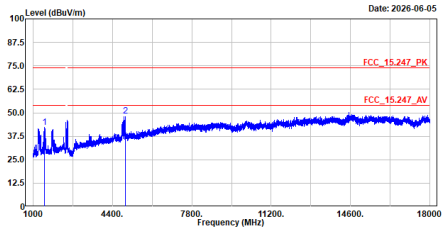


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	4880.000	46.16	74.00	-27.84	60.62	-14.46	Peak
2	7239.000	46.82	74.00	-27.18	54.04	-7.22	Peak

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.

TX_4M_2476MHz_H

Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_4M_2476MHz
Test BY :Rock

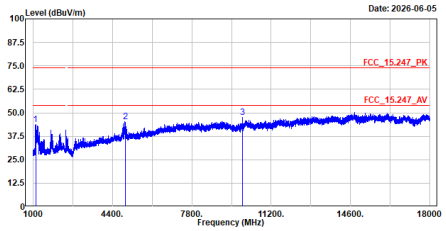


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	1476.000	42.38	74.00	-31.62	68.03	-25.65	Peak
2	4952.000	48.19	74.00	-25.81	62.45	-14.26	Peak

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.

TX_4M_2476MHz_V

Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_4M_2476MHz
Test BY :Rock

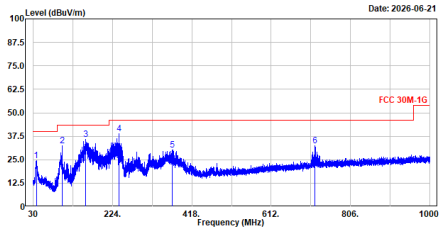


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	1102.000	43.71	74.00	-30.29	69.63	-25.92	Peak
2	4952.000	45.38	74.00	-28.62	59.64	-14.26	Peak
3	9968.350	47.67	74.00	-26.33	53.32	-5.65	Peak

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.

TX_4M_2440MHz_H

Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_4M_2440MHz
Test BY :Rock

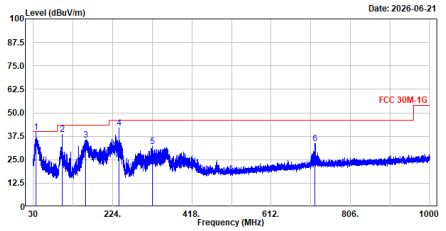


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	37.566	24.62	40.00	-15.38	49.00	-24.38	QP
2	100.907	32.47	43.50	-11.03	60.64	-28.17	QP
3	158.622	35.96	43.50	-7.54	59.78	-23.82	QP
4	240.296	38.96	46.00	-7.04	64.04	-25.08	QP
5	369.985	30.33	46.00	-15.67	51.63	-21.30	QP
6	719.864	32.33	46.00	-13.67	46.05	-13.72	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.

TX_4M_2440MHz_V

Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_4M_2440MHz
Test BY :Rock

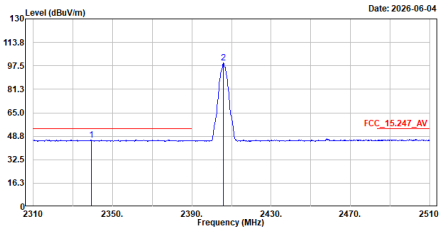


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	36.596	39.45	40.00	-0.55	63.98	-24.53	QP
2	100.907	38.60	43.50	-4.90	66.77	-28.17	QP
3	158.137	35.39	43.50	-8.11	59.22	-23.83	QP
4	239.908	42.04	46.00	-3.96	67.14	-25.10	QP
5	322.261	31.92	46.00	-14.08	54.31	-22.39	QP
6	719.864	33.69	46.00	-12.31	47.41	-13.72	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.

TX_4M_2406MHz_H_Average

Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_4M_2406MHz
Test BY :Rock

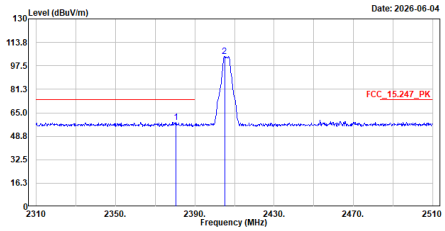


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2339.200	46.13	54.00	-7.87	15.56	30.57	Average
2	2406.000	99.43	------	------	69.10	30.33	Average

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.

TX_4M_2406MHz_H_Peak

Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_4M_2406MHz
Test BY :Rock

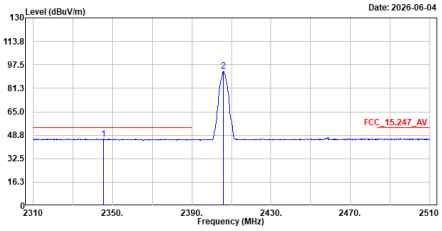


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2380.400	58.55	74.00	-15.45	28.07	30.48	Peak
2	2405.000	103.93	------	------	73.59	30.34	Peak

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.

TX_4M_2406MHz_V_Average

Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_4M_2406MHz
Test BY :Rock

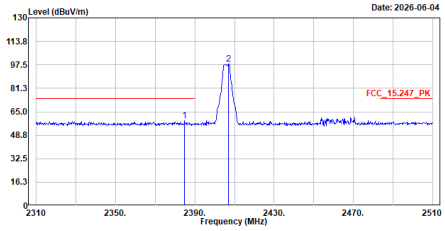


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2345.400	46.19	54.00	-7.81	15.67	30.52	Average
2	2406.000	93.27	------	------	62.94	30.33	Average

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.

TX_4M_2406MHz_V_Peak

Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_4M_2406MHz
Test BY :Rock

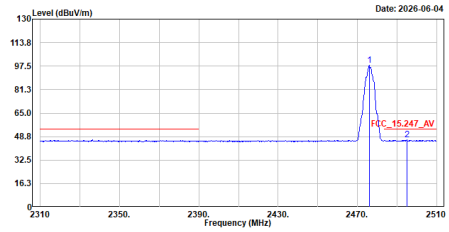


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2384.800	58.63	74.00	-15.37	28.19	30.44	Peak
2	2407.000	98.00	------	------	67.68	30.32	Peak

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.

TX_4M_2476MHz_H_Average

Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_4M_2476MHz
Test BY :Rock

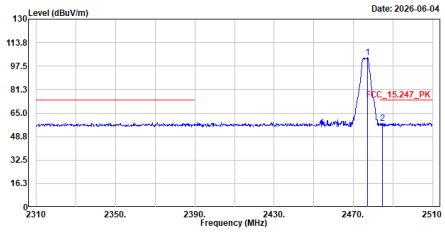


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2476.000	98.21	------	------	67.78	30.43	Average
2	2495.200	46.41	54.00	-7.59	15.97	30.44	Average

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.

TX_4M_2476MHz_H_Peak

Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_4M_2476MHz
Test BY :Rock

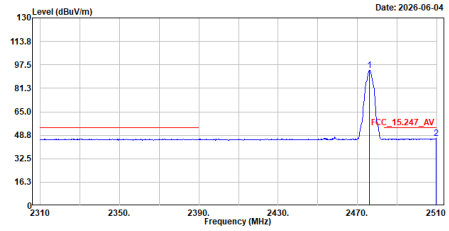


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2477.200	103.34	------	------	72.91	30.43	Peak
2	2484.600	57.95	74.00	-16.05	27.52	30.43	Peak

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.

TX_4M_2476MHz_V_Average

Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_4M_2476MHz
Test BY :Rock

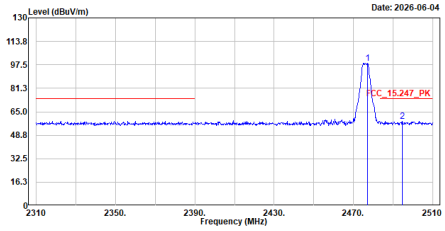


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2476.200	93.87	------	------	63.44	30.43	Average
2	2509.600	46.48	54.00	-7.52	16.03	30.45	Average

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.

TX_4M_2476MHz_V_Peak

Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_4M_2476MHz
Test BY :Rock

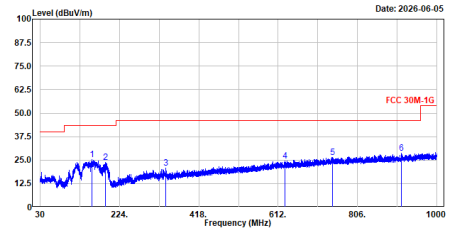


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2477.000	98.64	------	------	68.21	30.43	Peak
2	2494.800	58.37	74.00	-15.63	27.93	30.44	Peak

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.

Charging mode_H	Charging mode_V

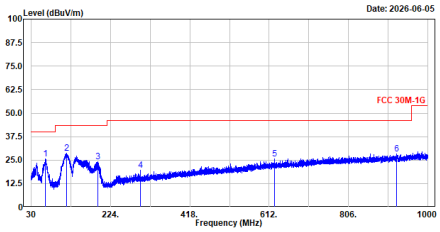
Site :HY-CB03
Condition :3m ,Horizontal
Mode :Charging mode
Test BY :Rock



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	156.682	25.45	43.50	-18.05	49.35	-23.90	QP
2	189.080	23.71	43.50	-19.79	50.24	-26.53	QP
3	337.684	20.85	46.00	-25.15	42.87	-22.02	QP
4	628.102	24.61	46.00	-21.39	39.83	-15.22	QP
5	745.860	26.43	46.00	-19.57	39.50	-13.07	QP
6	913.282	28.62	46.00	-17.38	40.03	-11.41	QP

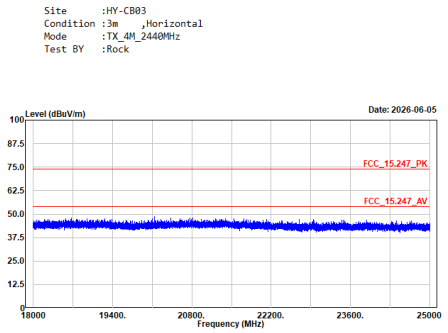
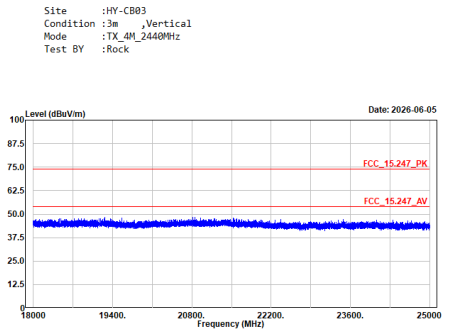
Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.

Site :HY-CB03
Condition :3m ,Vertical
Mode :Charging mode
Test BY :Rock



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	64.726	25.74	40.00	-14.26	51.02	-25.28	QP
2	115.748	28.50	43.50	-15.00	55.09	-26.59	QP
3	192.475	24.29	43.50	-19.21	50.91	-26.62	QP
4	297.041	19.68	46.00	-26.32	42.94	-23.26	QP
5	625.095	25.72	46.00	-20.28	41.01	-15.29	QP
6	924.340	28.37	46.00	-17.63	39.51	-11.14	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.

Worst-Case Emissions Above 18 GHz

TX_4M_2440MHz_H	TX_4M_2440MHz_V