

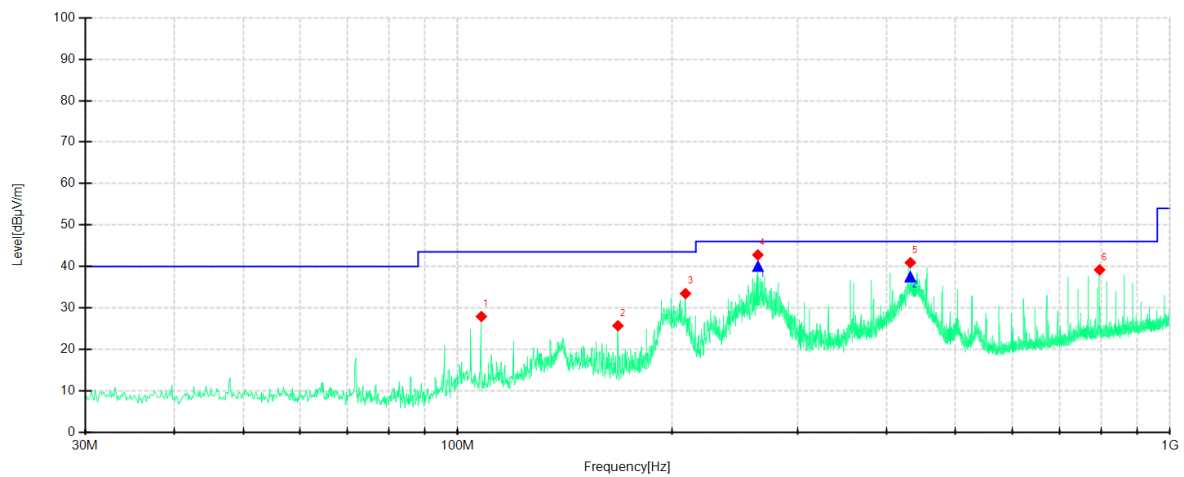
7.9.5.Test Result

All models were pretested and only the worst modes and channels were recorded in this report (DH5-2402MHz).

30MHz – 1GHz Test Data

EUT:	Marine Radio with Bluetooth	Polarity:	Horizontal
Model:	UTE-M701	SN:	N/A
Mode:	Transmit at DH5 Channel 00	Voltage:	DC 12V
Environment:	Temp: 21.9℃; Humi: 51%	Engineer:	Chuang Li

Test Graph



Suspected Data List

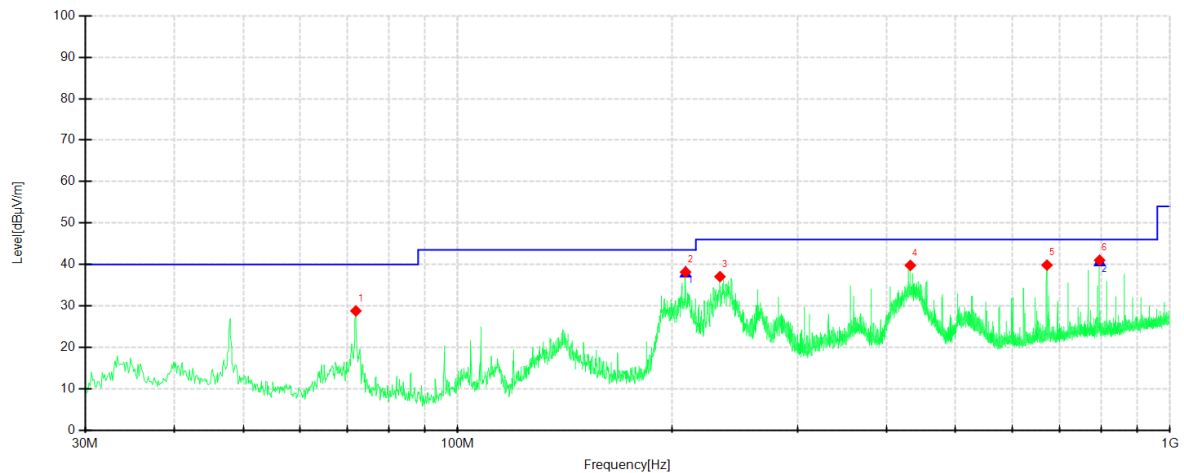
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity
1	107.9735	58.67	27.90	-30.77	43.50	15.60	PK	200	328	Horizontal
2	167.8785	54.46	25.67	-28.79	43.50	17.83	PK	200	192	Horizontal
3	208.8661	64.74	33.44	-31.30	43.50	10.06	PK	100	276	Horizontal
4	263.9205	71.84	42.78	-29.06	46.00	3.22	PK	100	209	Horizontal
5	431.9940	63.94	40.90	-23.04	46.00	5.10	PK	100	76	Horizontal
6	796.5171	56.08	39.17	-16.91	46.00	6.83	PK	100	315	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV/m]	Level [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	263.9816	-29.06	69.08	40.02	46.00	5.98	100	195.1	Horizontal	PASS
2	431.9752	-23.04	60.52	37.48	46.00	8.52	100	41.1	Horizontal	PASS

EUT:	Marine Radio with Bluetooth	Polarity:	Vertical
Model:	UTE-M701	SN:	N/A
Mode:	Transmit at DH5 Channel 00	Voltage:	DC 12V
Environment:	Temp: 21.9°C; Humi: 51%	Engineer:	Chuang Li

Test Graph



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity
1	71.9577	60.59	28.77	-31.82	40.00	11.23	PK	100	114	Vertical
2	208.8661	69.45	38.15	-31.30	43.50	5.35	PK	100	271	Vertical
3	233.4829	66.87	37.05	-29.82	46.00	8.95	PK	100	46	Vertical
4	431.9940	62.80	39.76	-23.04	46.00	6.24	PK	100	126	Vertical
5	671.9777	58.25	39.83	-18.42	46.00	6.17	PK	100	247	Vertical
6	796.5171	57.91	41.00	-16.91	46.00	5.00	PK	100	340	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV/m]	Level [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	208.9115	-31.30	69.50	38.20	43.50	5.30	100	267.2	Horizontal	PASS
2	796.5055	-16.91	57.80	40.89	46.00	5.11	100	326.6	Horizontal	PASS

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 26.5GHz), therefore no data appear in the report.

1GHz –18GHz Test Data

All models were pretested and only the worst modes and channels were recorded in this report (DH5&3DH5).

EUT:	Marine Radio with Bluetooth	Polarity:	Horizontal
Model:	UTE-M701	S/N:	/
Mode:	Transmit at DH5 Channel 00	Voltage:	DC 12V
Environment:	Temp: 21.9℃; Humi: 51%	Engineer:	Chuang Li

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2660.4000	50.07	47.54	-2.53	74.00	26.46	100	123	Horizontal
2	3459.0000	58.97	45.67	-13.30	74.00	28.33	200	210	Horizontal
3	3982.0000	53.32	42.51	-10.81	74.00	31.49	100	20	Horizontal
4	4804.0000	56.92	49.39	-7.53	74.00	24.61	200	210	Horizontal
5	8736.0000	41.71	47.85	6.14	74.00	26.15	200	108	Horizontal
6	13283.0000	36.83	50.89	14.06	74.00	23.11	100	258	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.0000	-7.53	54.98	47.45	54.00	6.55	200	202.3	Horizontal
2	13277.4250	14.06	24.17	38.23	54.00	15.77	164	245.1	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2957.4000	48.14	47.81	-0.33	74.00	26.19	100	84	Vertical
2	3460.0000	58.36	45.69	-12.67	74.00	28.31	100	227	Vertical
3	3995.0000	60.20	50.13	-10.07	74.00	23.87	100	314	Vertical
4	4804.0000	61.23	54.19	-7.04	74.00	19.81	100	122	Vertical
5	5314.0000	53.07	47.31	-5.76	74.00	26.69	100	108	Vertical
6	15058.0000	36.75	50.41	13.66	74.00	23.59	200	230	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dB μ V/m]	AV Value [dB μ V/m]	AV Limit [dB μ V/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3982.5120	-10.07	46.34	36.27	54.00	17.73	131	301	Vertical
2	4804.0700	-7.04	57.99	50.95	54.00	3.05	100	114.1	Vertical
3	15119.2300	13.66	24.54	38.20	54.00	15.80	148	259.8	Vertical

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 26.5GHz), therefore no data appear in the report.

EUT:	Marine Radio with Bluetooth	Polarity:	Horizontal
Model:	UTE-M701	S/N:	/
Mode:	Transmit at DH5 Channel 39	Voltage:	DC 12V
Environment:	Temp: 21.9℃; Humi: 51%	Engineer:	Chuang Li

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.4000	51.89	44.45	-7.44	74.00	29.55	100	326	Horizontal
2	2664.6000	49.10	46.61	-2.49	74.00	27.39	100	124	Horizontal
3	3460.0000	59.13	45.84	-13.29	74.00	28.16	100	20	Horizontal
4	3982.0000	54.40	43.59	-10.81	74.00	30.41	100	122	Horizontal
5	4881.0000	54.72	47.49	-7.23	74.00	26.51	200	197	Horizontal
6	13103.0000	36.31	50.73	14.42	74.00	23.27	100	241	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	13115.3250	14.42	23.49	37.91	54.00	16.09	102	202.7	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2665.2000	50.61	48.24	-2.37	74.00	25.76	100	150	Vertical
2	3460.0000	58.05	45.38	-12.67	74.00	28.62	100	229	Vertical
3	3995.0000	59.89	49.82	-10.07	74.00	24.18	100	245	Vertical
4	4882.0000	59.12	52.05	-7.07	74.00	21.95	100	124	Vertical
5	7322.0000	46.49	48.11	1.62	74.00	25.89	100	229	Vertical
6	12205.0000	41.70	53.15	11.45	74.00	20.85	200	228	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2655.3650	-2.37	35.71	33.34	54.00	20.66	100	131	Vertical
2	3982.3960	-10.07	45.61	35.54	54.00	18.46	111	222.6	Vertical
3	4882.0000	-7.07	56.69	49.62	54.00	4.38	100	128.3	Vertical
4	7322.9500	1.62	40.30	41.92	54.00	12.08	100	215.7	Vertical
5	12205.0050	11.45	29.28	40.73	54.00	13.27	147	205.8	Vertical

EUT:	Marine Radio with Bluetooth	Polarity:	Horizontal
Model:	UTE-M701	S/N:	/
Mode:	Transmit at DH5 Channel 78	Voltage:	DC 12V
Environment:	Temp: 21.9℃; Humi: 51%	Engineer:	Chuang Li

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2656.0000	49.41	46.86	-2.55	74.00	27.14	100	155	Horizontal
2	3460.0000	59.09	45.80	-13.29	74.00	28.20	100	29	Horizontal
3	3982.0000	53.50	42.69	-10.81	74.00	31.31	200	340	Horizontal
4	4959.0000	55.42	48.66	-6.76	74.00	25.34	200	207	Horizontal
5	9920.0000	40.54	48.94	8.40	74.00	25.06	200	104	Horizontal
6	14706.0000	36.57	50.52	13.95	74.00	23.48	200	44	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0050	-6.76	48.03	41.27	54.00	12.73	179	215.4	Horizontal
2	9920.0000	8.40	34.40	42.80	54.00	11.20	200	127.8	Horizontal
3	14647.4700	13.95	24.54	38.49	54.00	15.51	168	268.2	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1599.8000	54.98	46.30	-8.68	74.00	27.70	200	248	Vertical
2	2659.4000	50.51	48.16	-2.35	74.00	25.84	100	211	Vertical
3	3460.0000	57.54	44.87	-12.67	74.00	29.13	100	102	Vertical
4	3985.0000	55.52	45.36	-10.16	74.00	28.64	100	29	Vertical
5	4960.0000	56.64	49.66	-6.98	74.00	24.34	100	221	Vertical
6	14938.0000	37.02	51.07	14.05	74.00	22.93	100	72	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2661.5170	-2.35	36.08	33.73	54.00	20.27	153	212.6	Vertical
2	4960.0720	-6.98	51.48	44.50	54.00	9.50	122	207.7	Vertical
3	15009.7700	14.05	23.91	37.96	54.00	16.04	121	96.8	Vertical

EUT:	Marine Radio with Bluetooth	Polarity:	Horizontal
Model:	UTE-M701	S/N:	/
Mode:	Transmit at 3DH5 Channel 00	Voltage:	DC 12V
Environment:	Temp: 21.9℃; Humi: 51%	Engineer:	Chuang Li

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1662.2000	51.79	44.36	-7.43	74.00	29.64	100	331	Horizontal
2	3460.0000	59.14	45.85	-13.29	74.00	28.15	100	27	Horizontal
3	3982.0000	54.71	43.90	-10.81	74.00	30.10	100	133	Horizontal
4	4806.0000	53.40	45.86	-7.54	74.00	28.14	100	175	Horizontal
5	9430.0000	41.65	48.96	7.31	74.00	25.04	100	1	Horizontal
6	13283.0000	36.92	50.98	14.06	74.00	23.02	200	0	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9385.3700	7.31	27.94	35.25	54.00	18.75	112	23.1	Horizontal
2	13274.1550	14.06	24.25	38.31	54.00	15.69	199	268.9	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1796.0000	50.78	44.75	-6.03	74.00	29.25	100	170	Vertical
2	2660.0000	51.68	49.33	-2.35	74.00	24.67	100	156	Vertical
3	3460.0000	57.96	45.29	-12.67	74.00	28.71	100	220	Vertical
4	3994.0000	54.19	44.12	-10.07	74.00	29.88	100	324	Vertical
5	4803.0000	54.06	47.02	-7.04	74.00	26.98	100	116	Vertical
6	15286.0000	36.75	50.47	13.72	74.00	23.53	200	131	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2663.0800	-2.35	36.02	33.67	54.00	20.33	152	149.2	Vertical
2	15241.7600	13.72	24.53	38.25	54.00	15.75	169	124.2	Vertical

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 26.5GHz), therefore no data appear in the report.

EUT:	Marine Radio with Bluetooth	Polarity:	Horizontal
Model:	UTE-M701	S/N:	/
Mode:	Transmit at 3DH5 Channel 39	Voltage:	DC 12V
Environment:	Temp: 21.9℃; Humi: 51%	Engineer:	Chuang Li

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1793.6000	54.29	47.60	-6.69	74.00	26.40	100	259	Horizontal
2	2654.0000	49.97	47.40	-2.57	74.00	26.60	100	126	Horizontal
3	3460.0000	59.42	46.13	-13.29	74.00	27.87	200	271	Horizontal
4	3983.0000	59.04	48.23	-10.81	74.00	25.77	100	139	Horizontal
5	4882.0000	54.09	46.88	-7.21	74.00	27.12	200	197	Horizontal
6	14716.0000	36.86	50.64	13.78	74.00	23.36	200	226	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3982.4810	-10.81	48.29	37.48	54.00	16.52	150	121	Horizontal
2	14644.8700	13.78	24.57	38.35	54.00	15.65	169	244	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1665.4000	52.61	44.92	-7.69	74.00	29.08	100	153	Vertical
2	2658.6000	50.60	48.26	-2.34	74.00	25.74	100	191	Vertical
3	3460.0000	58.43	45.76	-12.67	74.00	28.24	100	228	Vertical
4	3981.0000	60.88	50.68	-10.20	74.00	23.32	100	245	Vertical
5	4882.0000	58.49	51.42	-7.07	74.00	22.58	100	125	Vertical
6	12205.0000	40.03	51.48	11.45	74.00	22.52	200	244	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2657.6000	-2.34	36.70	34.36	54.00	19.64	100	203.1	Vertical
2	3982.3830	-10.20	45.48	35.28	54.00	18.72	100	221.5	Vertical
3	4882.0000	-7.07	53.43	46.36	54.00	7.64	100	127.8	Vertical
4	12204.8250	11.45	32.07	43.52	54.00	10.48	199	230.7	Vertical

EUT:	Marine Radio with Bluetooth	Polarity:	Horizontal
Model:	UTE-M701	S/N:	/
Mode:	Transmit at 3DH5 Channel 78	Voltage:	DC 12V
Environment:	Temp: 21.9℃; Humi: 51%	Engineer:	Chuang Li

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1665.2000	51.08	43.64	-7.44	74.00	30.36	100	312	Horizontal
2	3460.0000	59.39	46.10	-13.29	74.00	27.90	200	213	Horizontal
3	3981.0000	59.15	48.33	-10.82	74.00	25.67	100	138	Horizontal
4	4960.0000	53.74	46.98	-6.76	74.00	27.02	200	198	Horizontal
5	9271.0000	41.82	49.04	7.22	74.00	24.96	100	227	Horizontal
6	12888.0000	36.28	50.68	14.40	74.00	23.32	100	317	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3982.4400	-10.82	43.62	32.80	54.00	21.20	101	161	Horizont
2	9228.8750	7.22	28.74	35.96	54.00	18.04	110	202.8	Horizont
3	12824.9600	14.40	23.79	38.19	54.00	15.81	152	256.3	Horizont

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1660.0000	53.79	46.04	-7.75	74.00	27.96	100	151	Vertical
2	2665.6000	50.25	47.88	-2.37	74.00	26.12	100	204	Vertical
3	3460.0000	58.11	45.44	-12.67	74.00	28.56	100	111	Vertical
4	4000.0000	57.92	47.90	-10.02	74.00	26.10	100	21	Vertical
5	4960.0000	52.76	45.78	-6.98	74.00	28.22	100	198	Vertical
6	13132.0000	36.29	50.19	13.90	74.00	23.81	100	317	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	13197.5600	13.90	24.04	37.94	54.00	16.06	145	306.6	Vertical

7.10. Radiated Restricted Band Edge Measurement

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.25 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41	--	--	--

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.10.1.Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

7.10.2.Test Setting

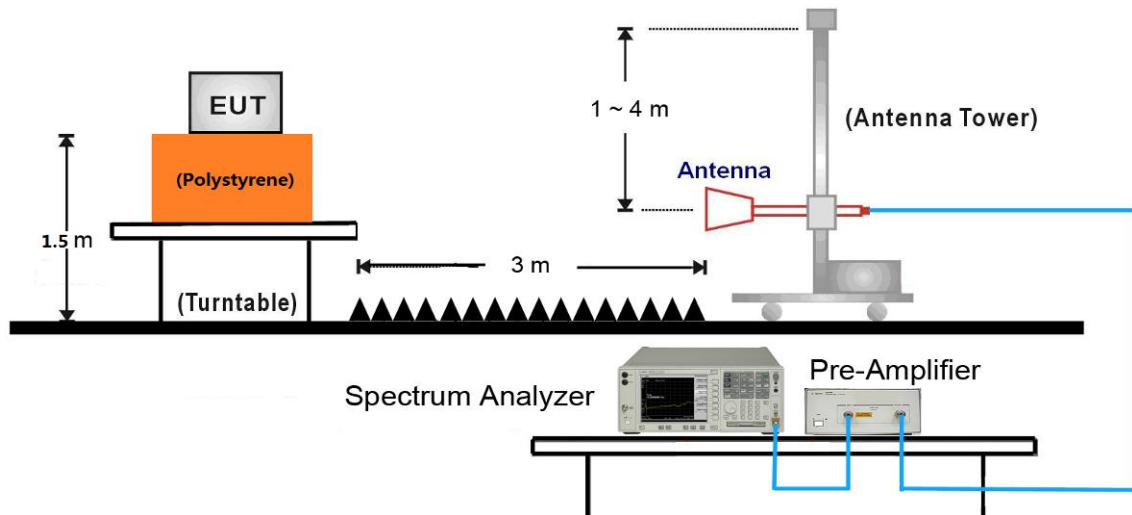
Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.
If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration.
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

7.10.3.Test Setup



7.10.4.Test Result

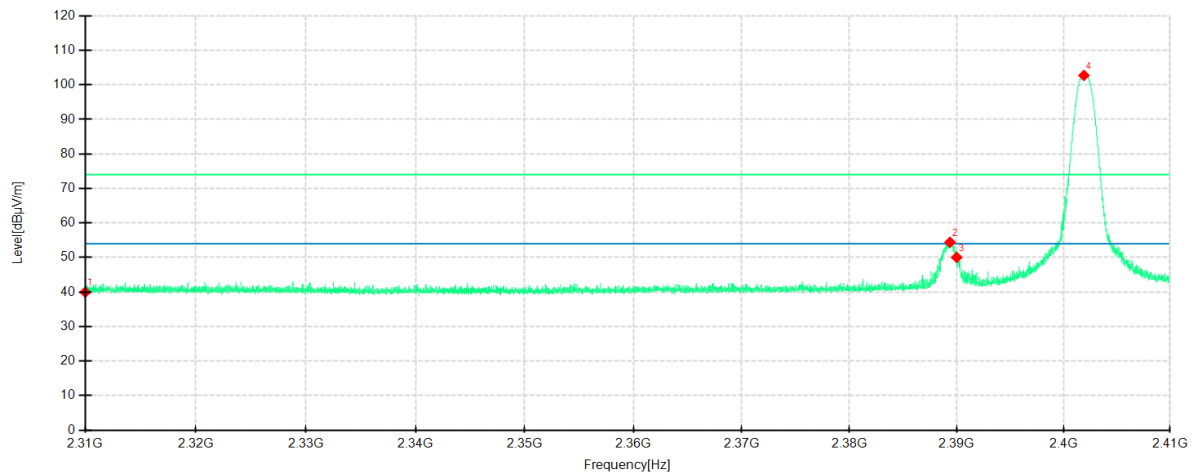
All models were pretested and only the worst modes and channels were recorded in this report (DH5&3DH5).

DH5 2402

Test Mode:	DH5	Test Date:	2025-08-23
Test Channel:	2402	Test Engineer:	Chuang Li
Remark:	/		

Test Graph

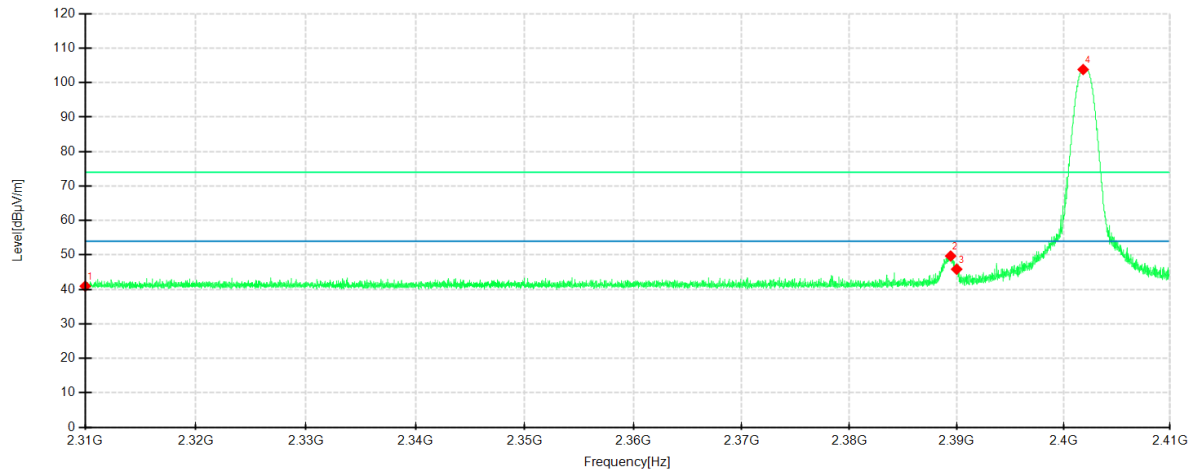
Detector mode: Peak Polarity: Horizontal



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2310.00	39.95	-5.90	74.00	34.05	200	43	Peak	Horizontal
2389.37	54.41	-5.74	74.00	19.59	100	327	Peak	Horizontal
2390.00	50.03	-5.73	74.00	23.97	200	320	Peak	Horizontal
2401.91	102.75	-5.52	/	/	100	145	Peak	Horizontal

Test Mode:	DH5	Test Date:	2025-08-23
Test Channel:	2402	Test Engineer:	Chuang Li
Remark:	/		

Detector mode: Peak Polarity: Vertical

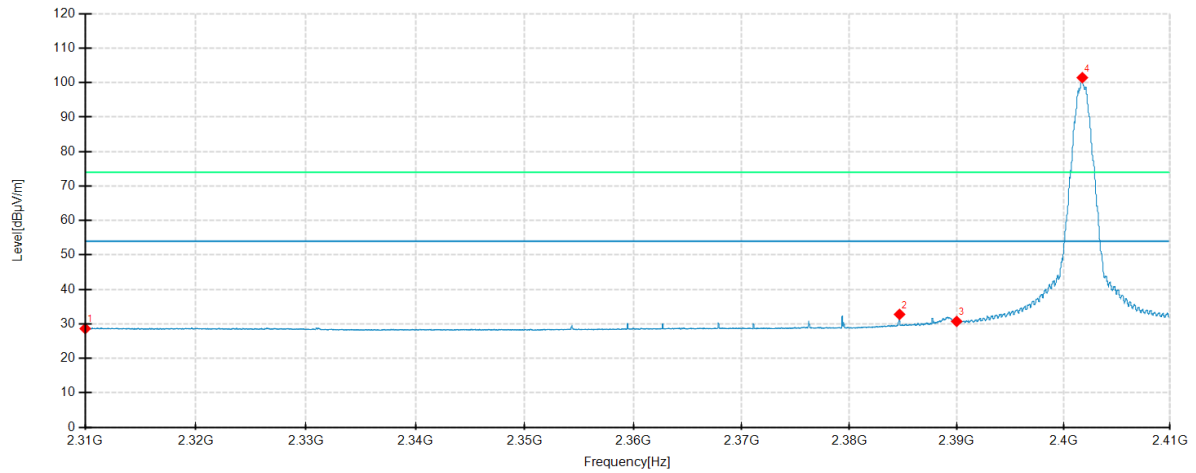


Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2310.0000	40.94	-5.30	74.00	33.06	100	71	Peak	Vertical
2389.4375	49.70	-5.45	74.00	24.30	100	21	Peak	Vertical
2390.0000	45.86	-5.45	74.00	28.14	100	126	Peak	Vertical
2401.8375	103.83	-5.46	/	/	200	196	Peak	Vertical

Test Mode:	DH5	Test Date:	2025-08-23
Test Channel:	2402	Test Engineer:	Chuang Li
Remark:	/		

Test Graph

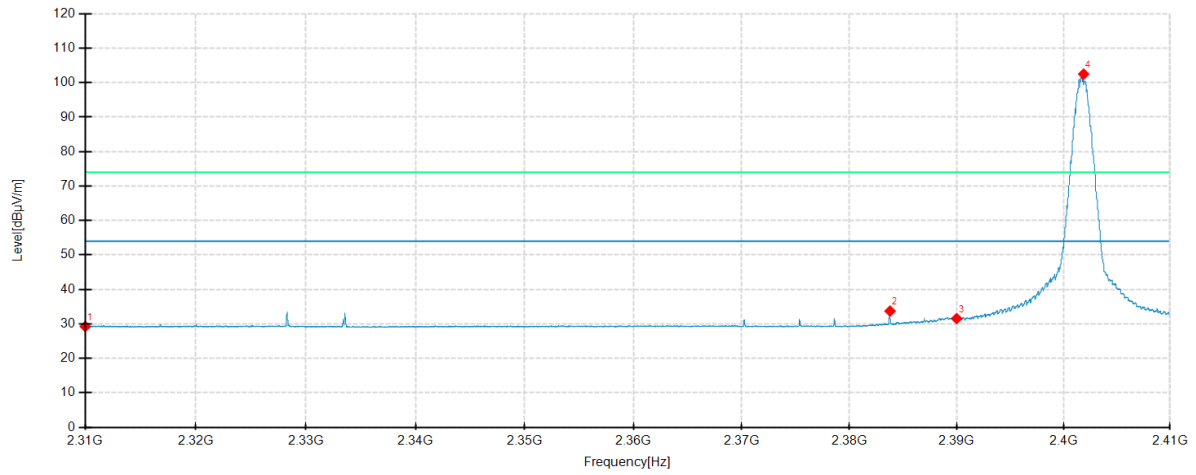
Detector mode: Average Polarity: Horizontal



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2310.00	28.63	-5.90	54.00	25.37	200	293	Average	Horizontal
2384.67	32.76	-5.82	54.00	21.24	100	272	Average	Horizontal
2390.00	30.72	-5.73	54.00	23.28	100	233	Average	Horizontal
2401.76	101.47	-5.53	/	/	100	144	Average	Horizontal

Test Mode:	DH5	Test Date:	2025-08-23
Test Channel:	2402	Test Engineer:	Chuang Li
Remark:	/		

Detector mode: Average Polarity: Vertical



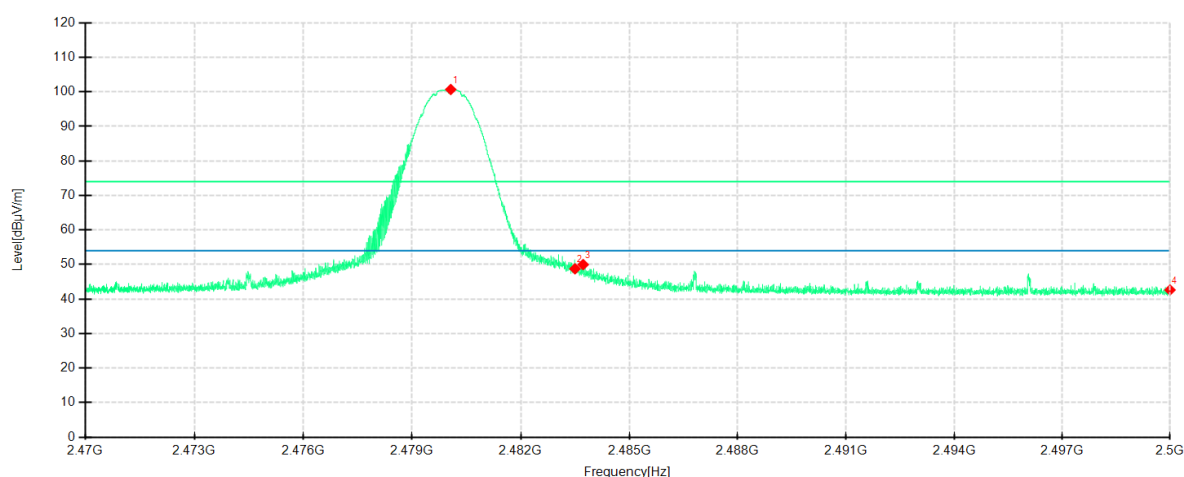
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2310.0000	29.23	-5.30	54.00	24.77	100	214	Average	Vertical
2383.7875	33.72	-5.44	54.00	20.28	100	189	Average	Vertical
2390.0000	31.54	-5.45	54.00	22.46	200	184	Average	Vertical
2401.8875	102.52	-5.46	/	/	200	184	Average	Vertical

DH5 2480

Test Mode:	DH5	Test Date:	2025-08-23
Test Channel:	2480	Test Engineer:	Chuang Li
Remark:	/		

Test Graph

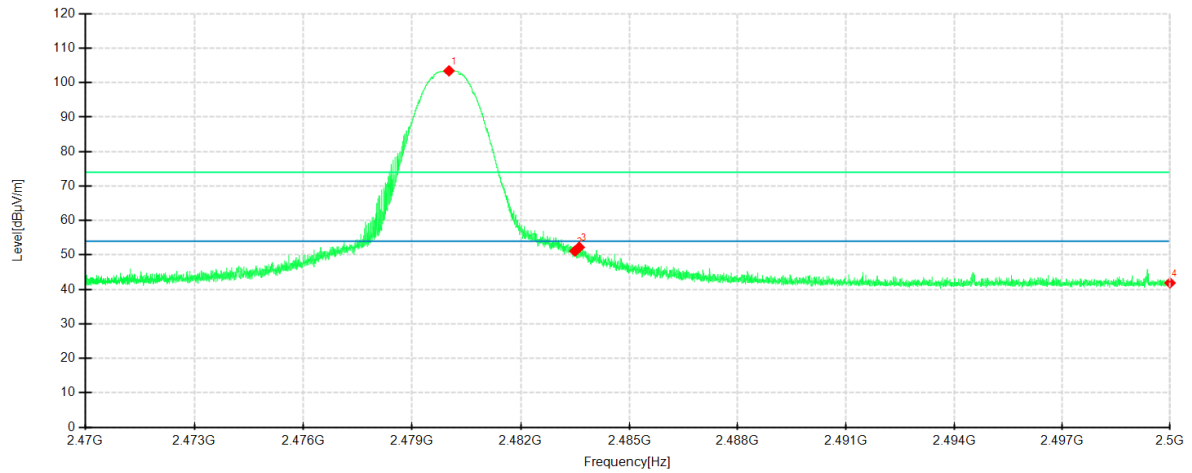
Detector mode: Peak Polarity: Horizontal



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2480.06	100.70	-4.65	/	/	100	145	Peak	Horizontal
2483.50	48.76	-4.67	74.00	25.24	100	145	Peak	Horizontal
2483.72	49.97	-4.67	74.00	24.03	100	145	Peak	Horizontal
2500.00	42.62	-4.79	74.00	31.38	100	24	Peak	Horizontal

Test Mode:	DH5	Test Date:	2025-08-23
Test Channel:	2480	Test Engineer:	Chuang Li
Remark:	/		

Detector mode: Peak Polarity: Vertical

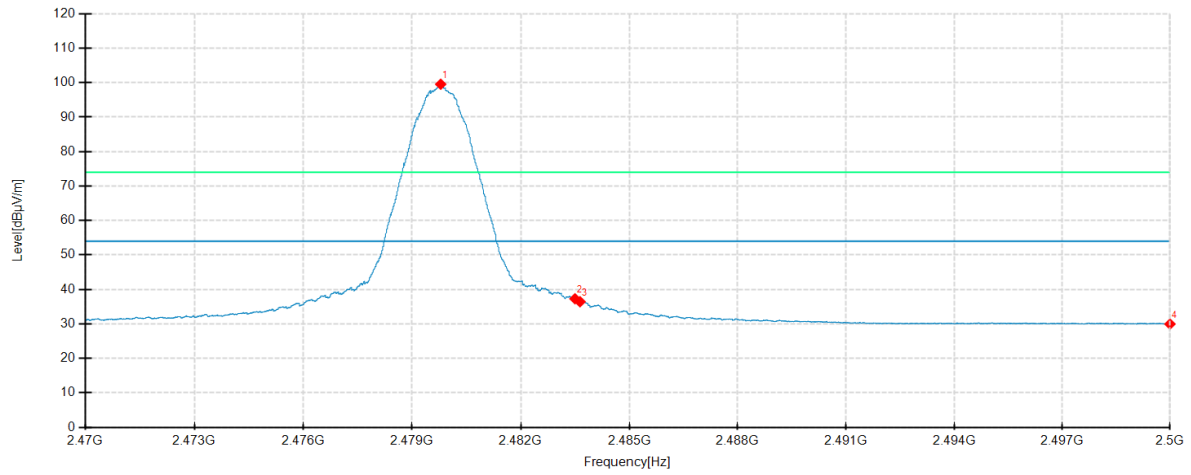


Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2480.0200	103.45	-5.15	/	/	200	185	Peak	Vertical
2483.5000	51.12	-5.13	74.00	22.88	200	199	Peak	Vertical
2483.6163	52.22	-5.13	74.00	21.78	200	185	Peak	Vertical
2500.0000	41.88	-5.09	74.00	32.12	100	19	Peak	Vertical

Test Mode:	DH5	Test Date:	2025-08-23
Test Channel:	2480	Test Engineer:	Chuang Li
Remark:	/		

Test Graph

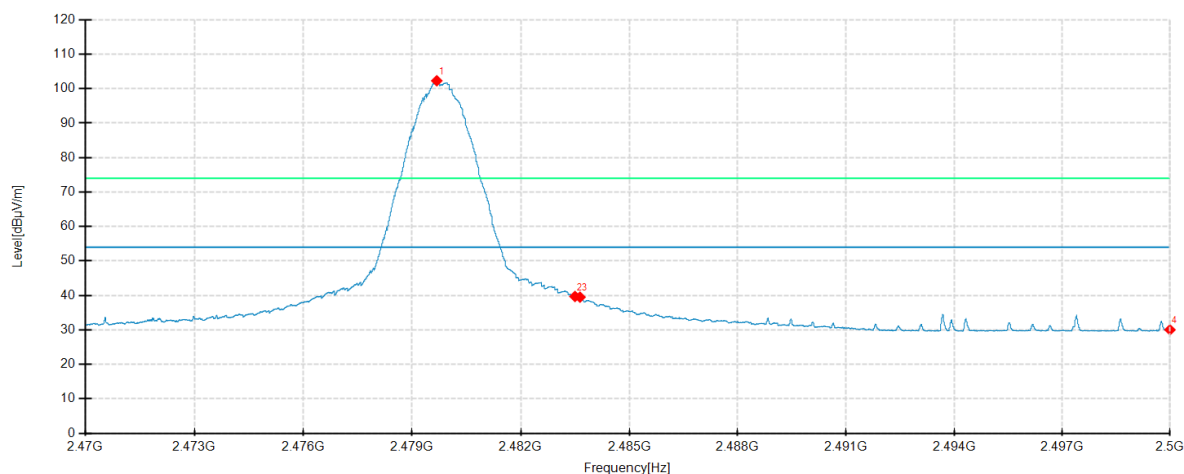
Detector mode: Average Polarity: Horizontal



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2479.79	99.56	-4.65	/	/	100	144	Average	Horizontal
2483.50	37.28	-4.67	54.00	16.72	100	144	Average	Horizontal
2483.63	36.43	-4.67	54.00	17.57	100	144	Average	Horizontal
2500.00	29.95	-4.79	54.00	24.05	200	307	Average	Horizontal

Test Mode:	DH5	Test Date:	2025-08-23
Test Channel:	2480	Test Engineer:	Chuang Li
Remark:	/		

Detector mode: Average Polarity: Vertical



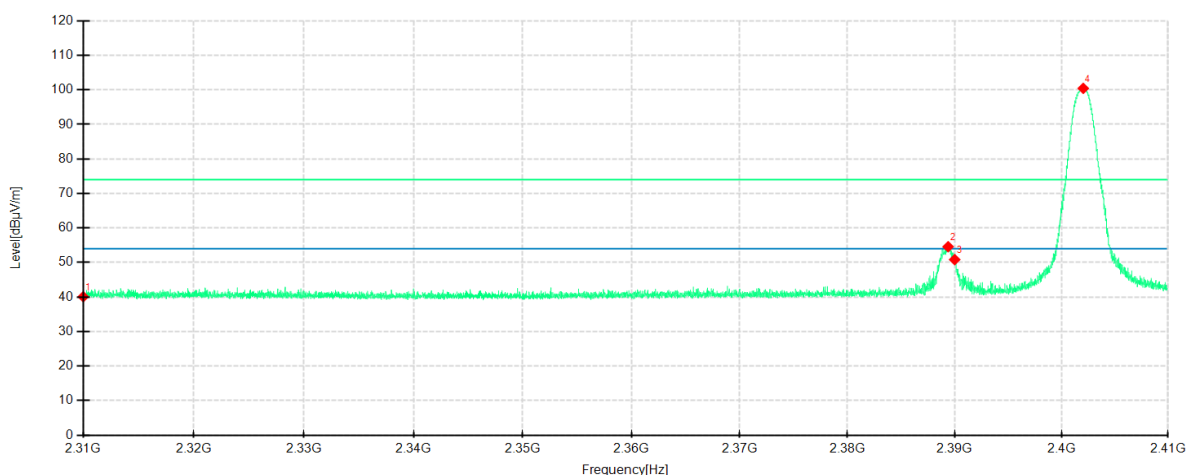
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2479.6825	102.31	-5.15	/	/	200	183	Average	Vertical
2483.5000	39.70	-5.13	54.00	14.30	200	197	Average	Vertical
2483.6388	39.50	-5.13	54.00	14.50	200	197	Average	Vertical
2500.0000	30.02	-5.09	54.00	23.98	100	335	Average	Vertical

3DH5 2402

Test Mode:	3DH5	Test Date:	2025-08-23
Test Channel:	2402	Test Engineer:	Chuang Li
Remark:	/		

Test Graph

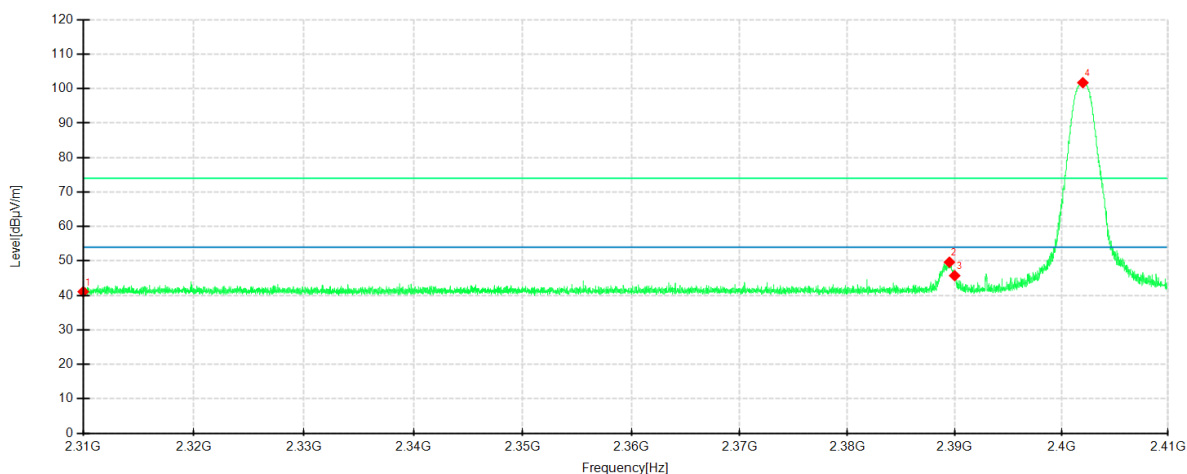
Detector mode: Peak Polarity: Horizontal



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2310.00	40.08	-5.90	74.00	33.92	100	196	Peak	Horizontal
2389.38	54.57	-5.74	74.00	19.43	100	327	Peak	Horizontal
2390.00	50.84	-5.73	74.00	23.16	100	327	Peak	Horizontal
2402.03	100.45	-5.52	/	/	100	143	Peak	Horizontal

Test Mode:	3DH5	Test Date:	2025-08-23
Test Channel:	2402	Test Engineer:	Chuang Li
Remark:	/		

Detector mode: Peak Polarity: Vertical

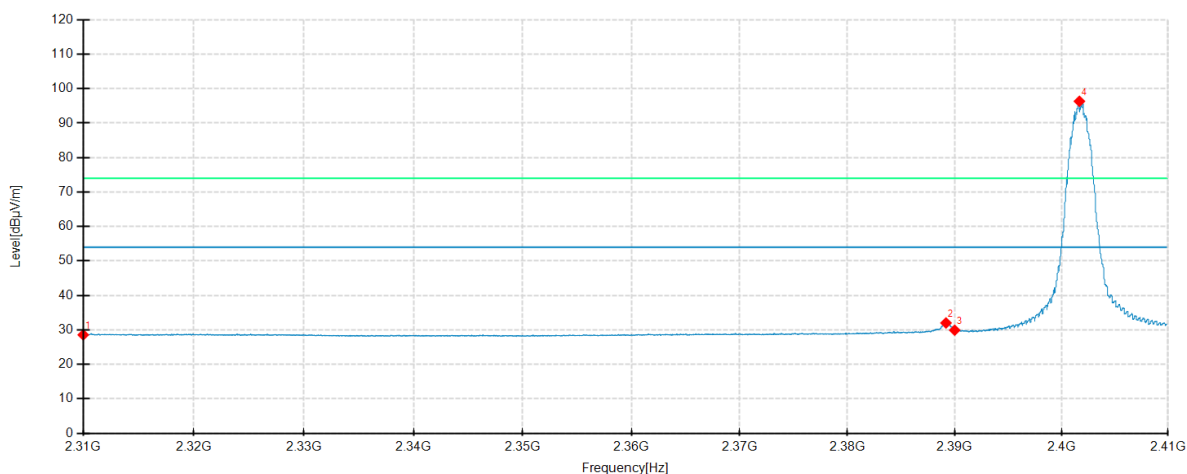


Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2310.0000	41.08	-5.30	74.00	32.92	200	355	Peak	Vertical
2389.5125	49.66	-5.45	74.00	24.34	100	135	Peak	Vertical
2390.0000	45.73	-5.45	74.00	28.27	100	95	Peak	Vertical
2402.0000	101.75	-5.46	/	/	200	185	Peak	Vertical

Test Mode:	3DH5	Test Date:	2025-08-23
Test Channel:	2402	Test Engineer:	Chuang Li
Remark:	/		

Test Graph

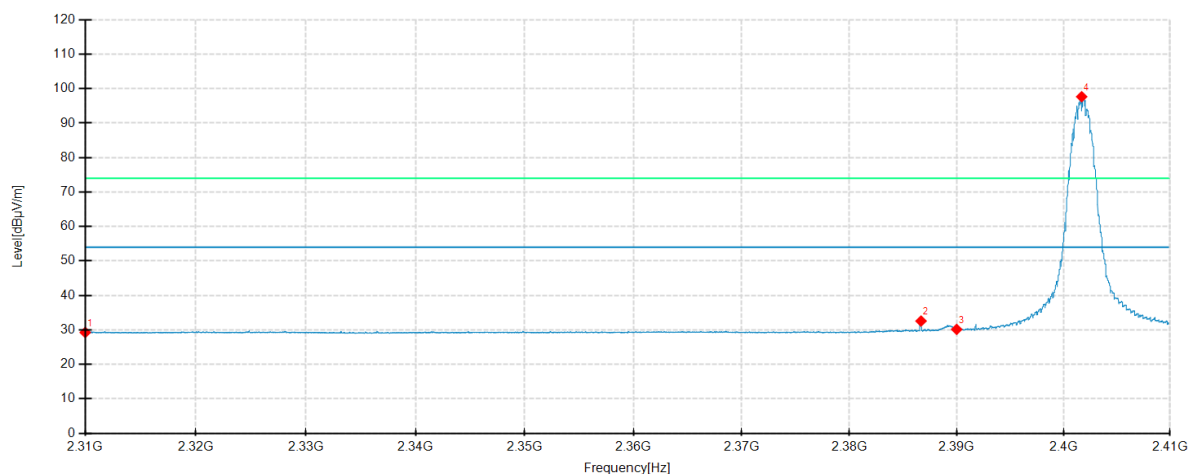
Detector mode: Average Polarity: Horizontal



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2310.00	28.55	-5.90	54.00	25.45	100	170	Average	Horizontal
2389.18	32.01	-5.74	54.00	21.99	100	342	Average	Horizontal
2390.00	29.91	-5.73	54.00	24.09	100	329	Average	Horizontal
2401.67	96.35	-5.54	/	/	100	144	Average	Horizontal

Test Mode:	3DH5	Test Date:	2025-08-23
Test Channel:	2402	Test Engineer:	Chuang Li
Remark:	/		

Detector mode: Average Polarity: Vertical



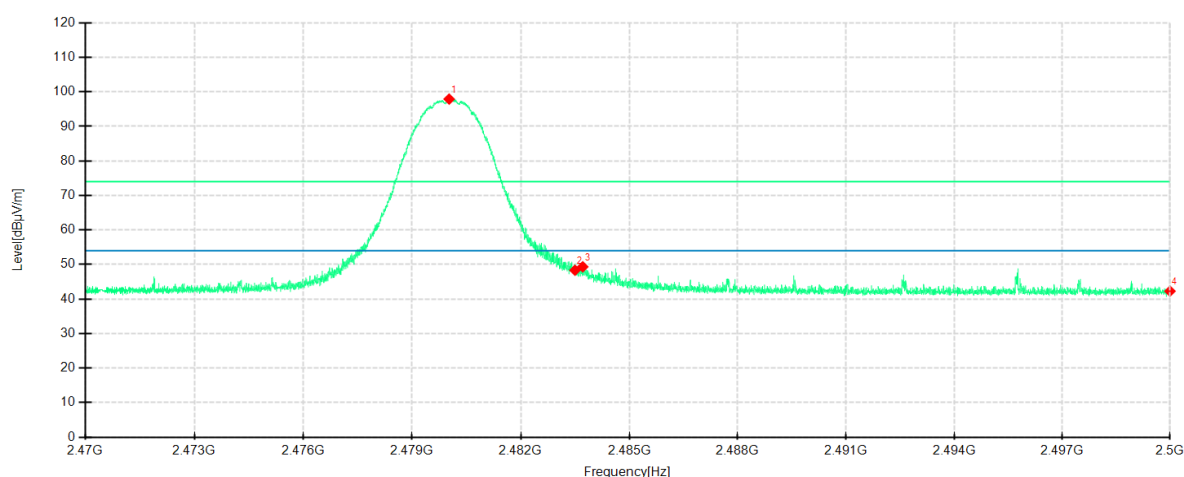
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2310.0000	29.25	-5.30	54.00	24.75	200	250	Average	Vertical
2386.6750	32.56	-5.44	54.00	21.44	200	210	Average	Vertical
2390.0000	30.15	-5.45	54.00	23.85	200	158	Average	Vertical
2401.7000	97.68	-5.47	/	/	200	184	Average	Vertical

3DH5 2480

Test Mode:	3DH5	Test Date:	2025-08-23
Test Channel:	2480	Test Engineer:	Chuang Li
Remark:	/		

Test Graph

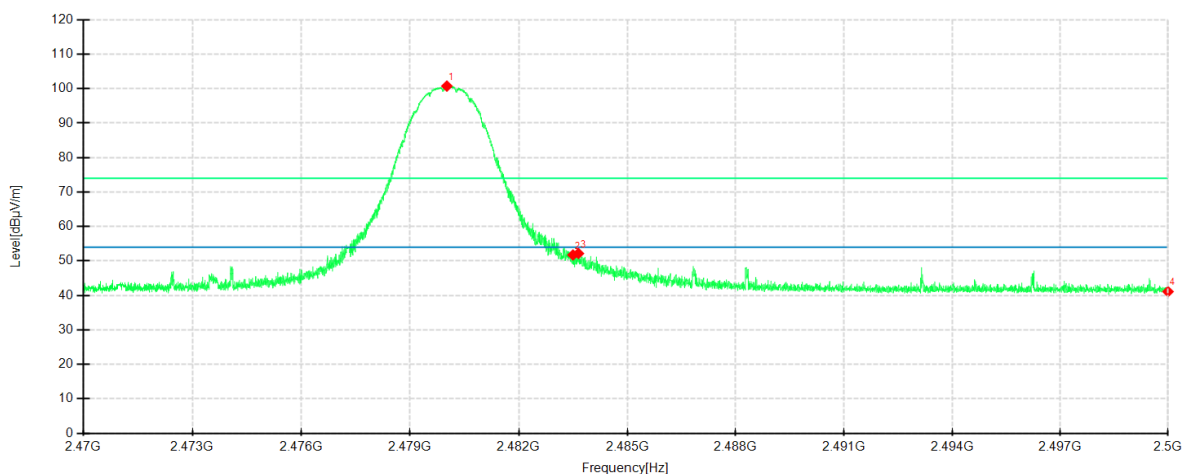
Detector mode: Peak Polarity: Horizontal



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2480.02	97.92	-4.65	/	/	100	145	Peak	Horizontal
2483.50	48.34	-4.67	74.00	25.66	100	184	Peak	Horizontal
2483.71	49.33	-4.67	74.00	24.67	100	196	Peak	Horizontal
2500.00	42.27	-4.79	74.00	31.73	100	329	Peak	Horizontal

Test Mode:	3DH5	Test Date:	2025-08-23
Test Channel:	2480	Test Engineer:	Chuang Li
Remark:	/		

Detector mode: Peak Polarity: Vertical

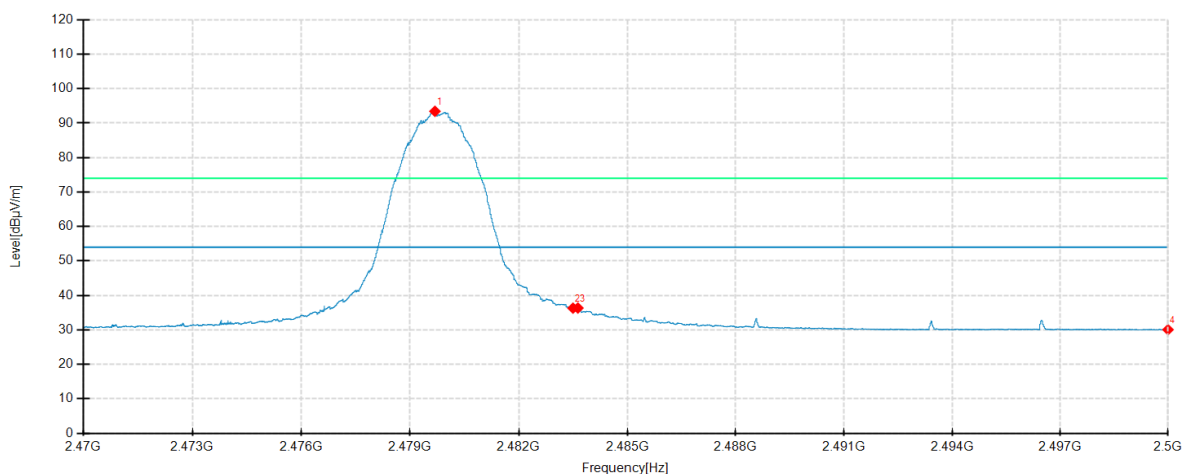


Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2480.0163	100.76	-5.15	/	/	200	184	Peak	Vertical
2483.5000	51.74	-5.13	74.00	22.26	200	184	Peak	Vertical
2483.6500	52.17	-5.13	74.00	21.83	200	184	Peak	Vertical
2500.0000	41.11	-5.09	74.00	32.89	100	243	Peak	Vertical

Test Mode:	3DH5	Test Date:	2025-08-23
Test Channel:	2480	Test Engineer:	Chuang Li
Remark:	/		

Test Graph

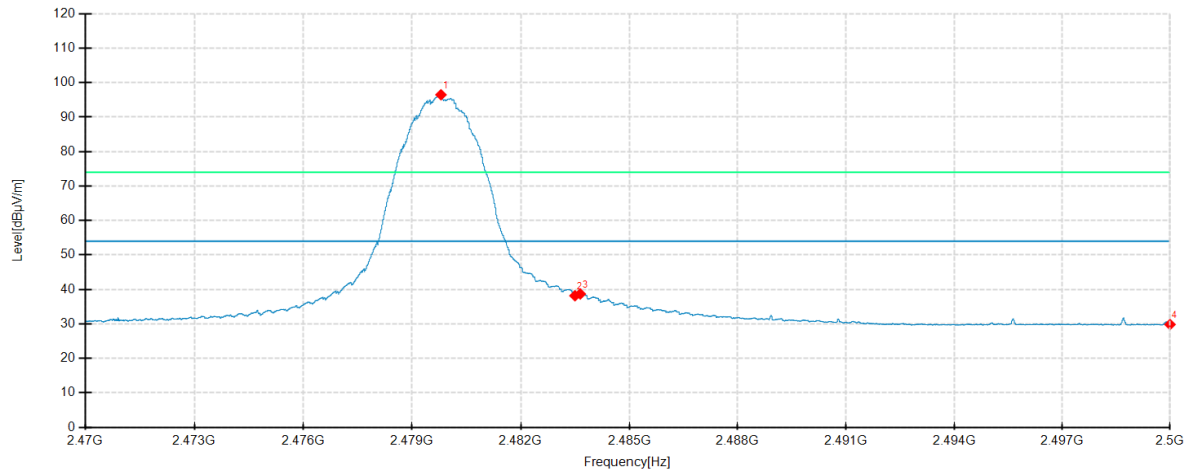
Detector mode: Average Polarity: Horizontal



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2479.68	93.45	-4.65	/	/	100	144	Average	Horizontal
2483.50	36.31	-4.67	54.00	17.69	100	144	Average	Horizontal
2483.63	36.35	-4.67	54.00	17.65	100	144	Average	Horizontal
2500.00	30.05	-4.79	54.00	23.95	200	57	Average	Horizontal

Test Mode:	3DH5	Test Date:	2025-08-23
Test Channel:	2480	Test Engineer:	Chuang Li
Remark:	/		

Detector mode: Average Polarity: Vertical



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
2479.7988	96.51	-5.15	/	/	200	184	Average	Vertical
2483.5000	38.17	-5.13	54.00	15.83	200	184	Average	Vertical
2483.6463	38.68	-5.13	54.00	15.32	200	196	Average	Vertical
2500.0000	29.82	-5.09	54.00	24.18	100	294	Average	Vertical

7.11. AC Conducted Emissions Measurement

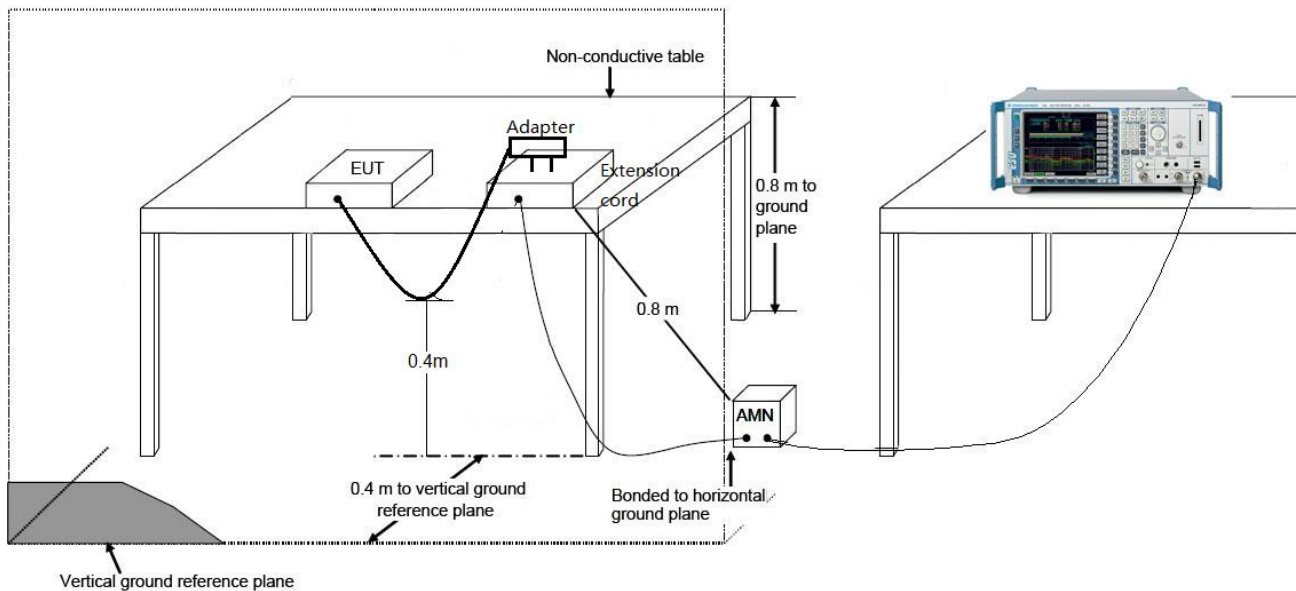
7.11.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBμV)	Average (dBμV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.11.2. Test Setup



7.11.3. Test Result

Not Applicable . The device is only powered by DC 12V.

8. CONCLUSION

The data collected relate only the item(s) tested and show that the **Marine Radio with Bluetooth** is in compliance with Part 15C of the FCC Rules.

Statement

1. This report is invalid for the following states: without the special inspection and testing stamp or the official stamp of our institution; without the signature of the report authorized officer; if the report is altered.
2. It is forbidden to copy partial contents of the report except in full without the approval of our institution.
3. The client shall provide the test sample(s) and commission information and be responsible for their authenticity.
4. The report content is only applicable to the tested sample(s) this time.
5. If there are any objections to the report content, please submit them to our company in writing within 15 days from the date of receiving the report.
6. If the reports include both Chinese and English versions, when there are any inconsistencies caused by language, the Chinese version shall prevail.
7. Information about laboratory sites involved in our company:

No.8 Ningyun Rd., Xinwu District Wuxi, Jiangsu 214000 China

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