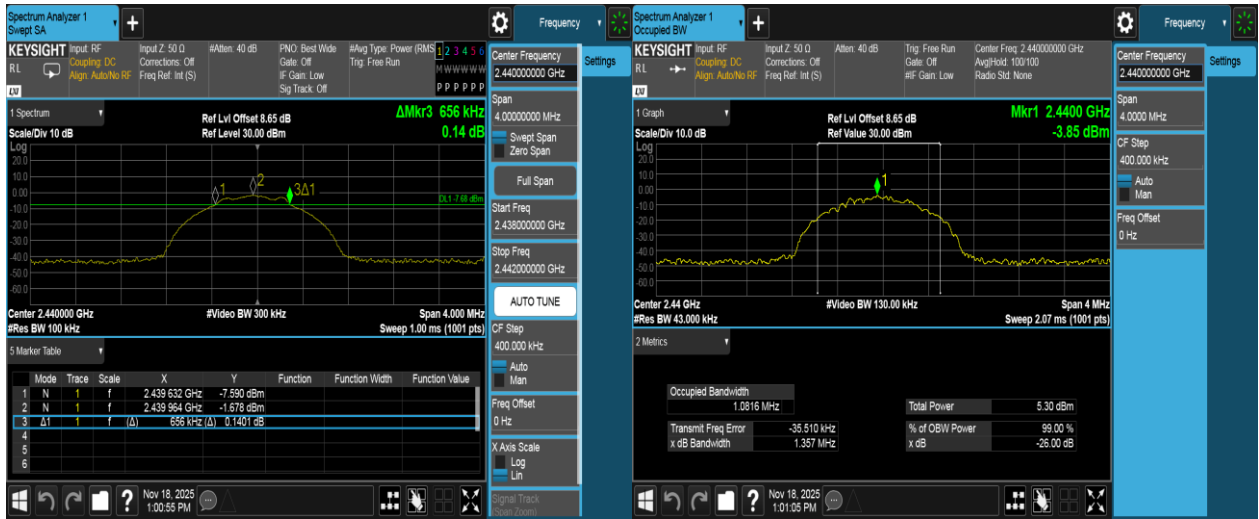
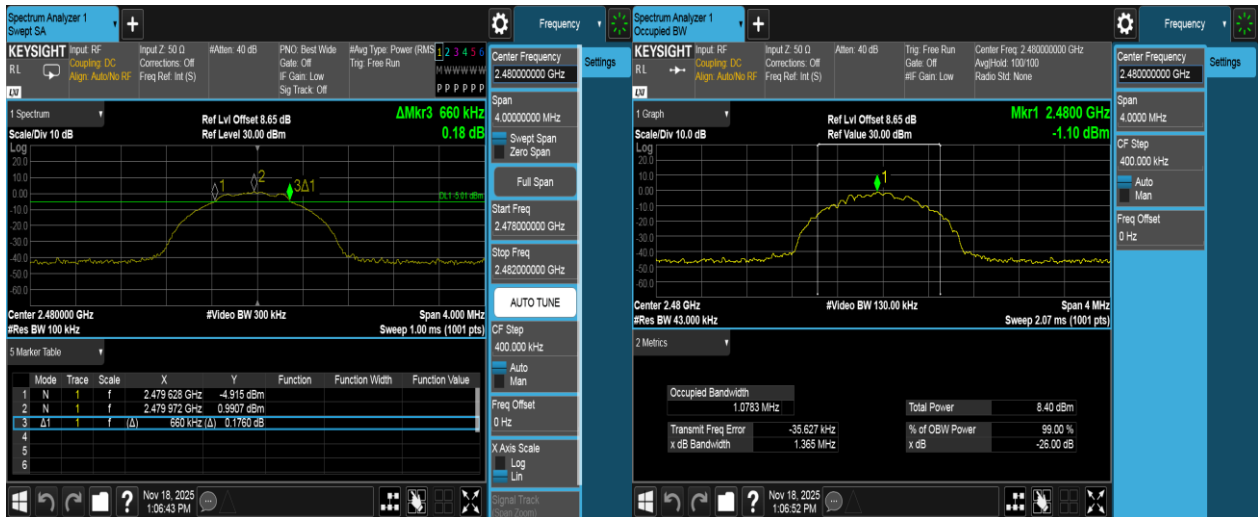


BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



7.3. Output Power Measurement

7.3.1. Test Limit

The maximum permissible conducted output power is 1 Watt (30dBm). And for antenna gain greater than 6dBi the limit shall reduce by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

7.3.2. Test Procedure Used

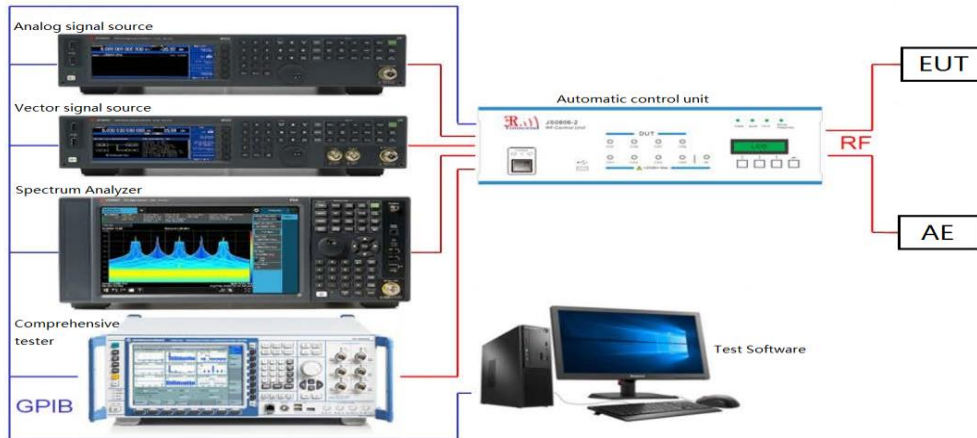
ANSI C63.10-2020 – Section 11.9.1.1

KDB 558074 D01 v05r02 – Section 8.3.1.2

7.3.3. Test Setting

- 1.Set the RBW $\geq$ DTS bandwidth.
- 2.Set the VBW $\geq$ $[3 \times \text{RBW}]$.
- 3.Set the span $\geq$ $[3 \times \text{RBW}]$.
- 4.Detector = peak.
- 5.Sweep time = No faster than coupled (auto) time.
- 6.Trace mode = max hold.
- 7.Allow trace to fully stabilize.
8. Use peak marker function to determine the peak amplitude level.

7.3.4. Test Setup



7.3.5. Test Result

Temperature:	22.2 °C
Relative Humidity:	36 %
ATM Pressure:	103.5 kPa
Test Date:	2025-11-18
Test Engineer:	Stone Zhang

Test Mode	Antenna	Frequency (MHz)	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	-0.52	≤30	PASS
		2440	0.24	≤30	PASS
		2480	2.96	≤30	PASS

Test Graphs

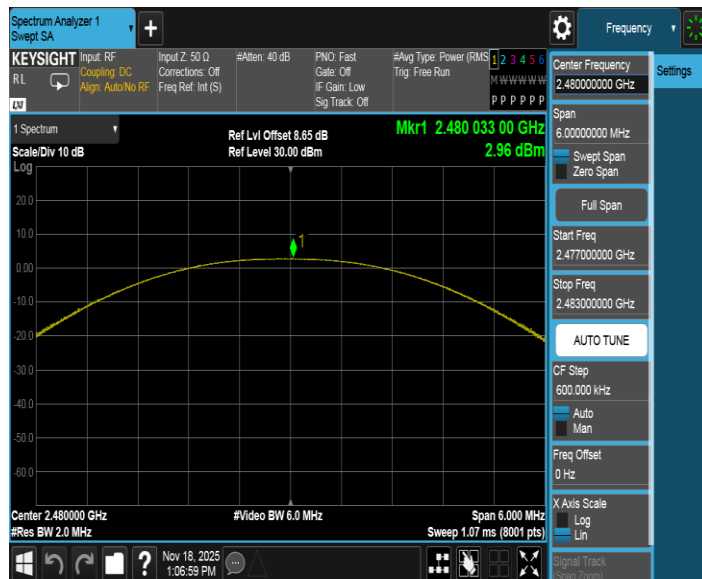
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



7.4. Power Spectral Density Measurement

7.4.1. Test Limit

The maximum permissible power spectral density is 8dBm in any 3 kHz band. And for antenna gain greater than 6dBi the limit shall reduce by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

7.4.2. Test Procedure Used

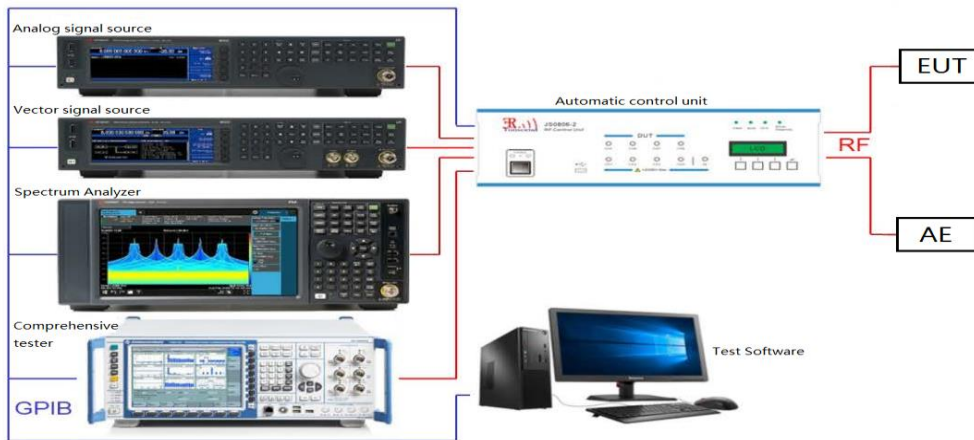
KDB 558074 D01 v05r02 - Section 8.4

ANSI C63.10 – Section 11.10.2

7.4.3. Test Setting

1. Set analyzer center frequency to DTS channel center frequency.
2. Set span to > 1.5 times the DTS bandwidth.
3. Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq [3 \times \text{RBW}]$.
5. Detector = peak.
6. Sweep time = No faster than coupled (auto) time.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

7.4.4. Test Setup



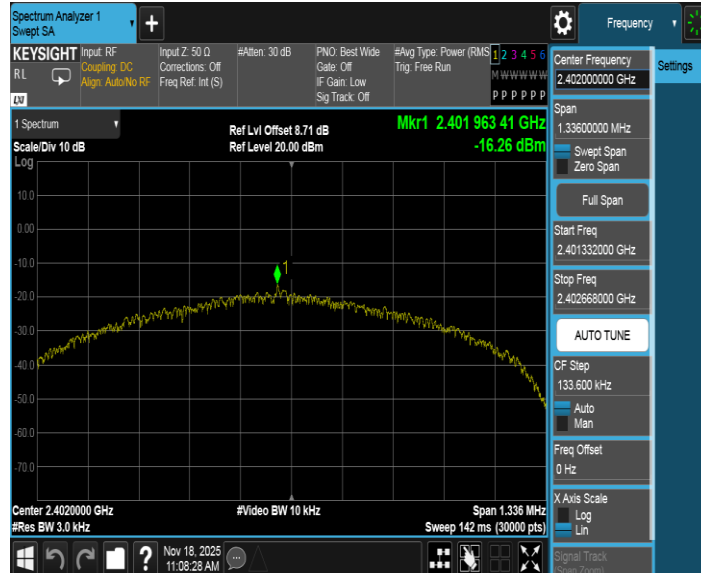
7.4.5. Test Result

Temperature:	22.2 °C
Relative Humidity:	36 %
ATM Pressure:	103.5 kPa
Test Date:	2025-11-18
Test Engineer:	Stone Zhang

Test Mode	Antenna	Frequency (MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.26	≤8.00	PASS
		2440	-14.99	≤8.00	PASS
		2480	-12.33	≤8.00	PASS

Test Graphs

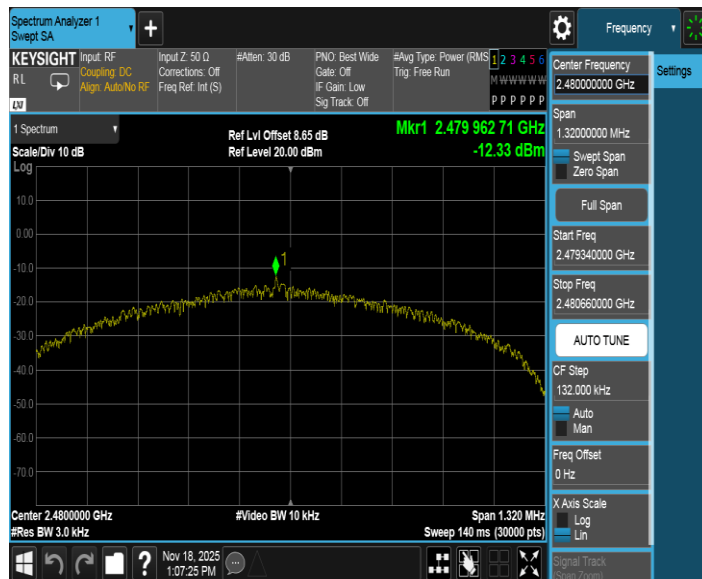
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



7.5. Conducted Band Edge and Out-of-Band Emissions

7.5.1. Test Limit

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth per the PSD procedure.

7.5.2. Test Procedure Used

KDB 558074 D01 v05r02 - Section 8.5 & Section 8.6

ANSI C63.10 – Section 11.11&11.12

7.5.3. Test Setting

Reference level measurement:

Establish a reference level by using the following procedure:

- (a) Set instrument center frequency to DTS channel center frequency.
- (b) Set the span to ≥ 1.5 times the DTS bandwidth.
- (c) Set the RBW = 100 kHz.
- (d) Set the VBW $\geq [3 \times \text{RBW}]$.
- (e) Detector = peak.
- (f) Sweep time = No faster than coupled (auto) time.
- (g) Trace mode = max-hold.
- (h) Allow trace to fully stabilize.
- (i) Use the peak marker function to determine the maximum PSD level.

Emission level measurement:

Establish an emission level by using the following procedure:

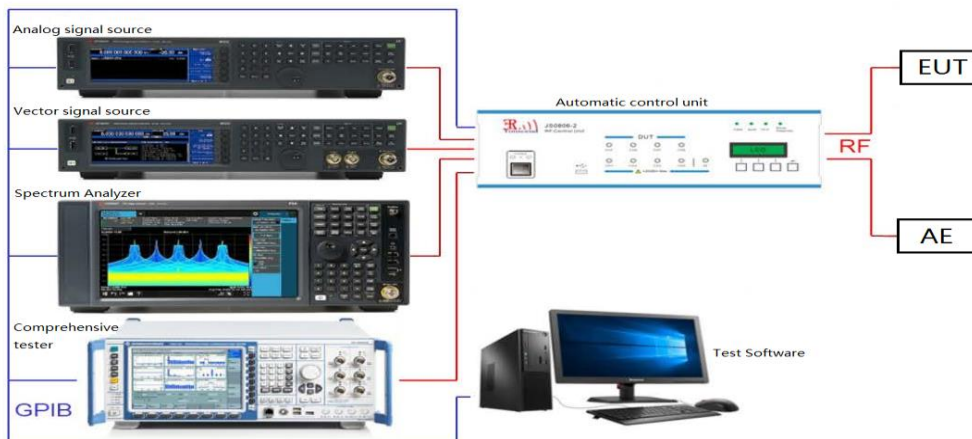
- (a) Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.

NOTE—the number of points can also be increased for large spans to retain frequency resolution

- (b) Set the RBW = 100 kHz.
- (c) Set the VBW $\geq [3 \times \text{RBW}]$.
- (d) Detector = peak.
- (e) Sweep time = No faster than coupled (auto) time.
- (f) Trace mode = max-hold.
- (g) Allow trace to fully stabilize.
- (h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

7.5.4. Test Setup



7.5.5. Test Result

Temperature:	22.2 °C
Relative Humidity:	36 %
ATM Pressure:	103.5 kPa
Test Date:	2025-11-18
Test Engineer:	Stone Zhang

Band edge

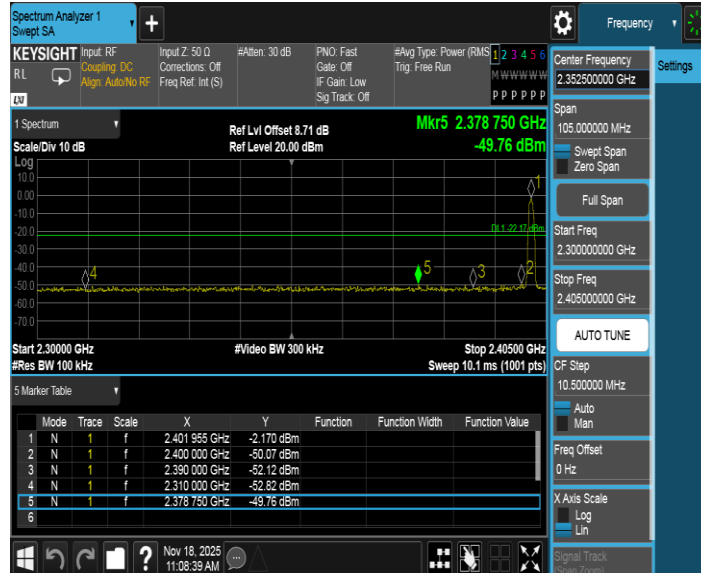
Test Mode	Antenna	ChName	Frequency (MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.17	-49.76	≤-22.17	PASS
		High	2480	1.43	-28.98	≤-18.57	PASS

Conducted Spurious Emission

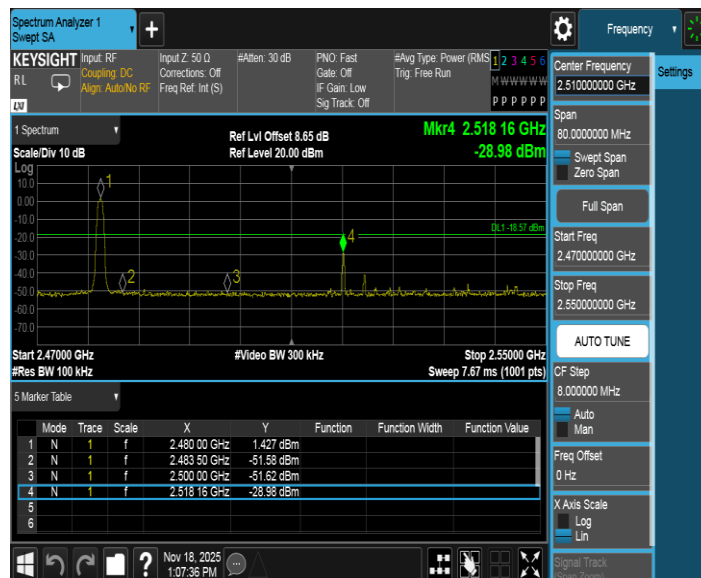
Test Mode	Antenna	Frequency (MHz)	Frequency Range [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.44	-2.44	---	PASS
			30~1000	-2.44	-51.13	≤-22.44	PASS
			1000~26500	-2.44	-31.70	≤-22.44	PASS
		2440	Reference	-1.72	-1.72	---	PASS
			30~1000	-1.72	-50.29	≤-21.72	PASS
			1000~26500	-1.72	-41.76	≤-21.72	PASS
		2480	Reference	0.99	0.99	---	PASS
			30~1000	0.99	-50.87	≤-19.01	PASS
			1000~26500	0.99	-28.31	≤-19.01	PASS

Test Graphs of Band Edge

BLE_1M_Ant1_Low_2402

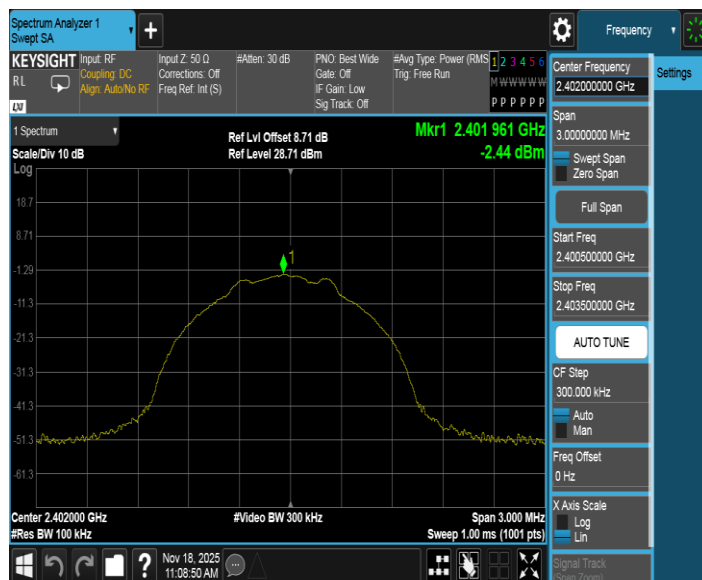


BLE_1M_Ant1_High_2480

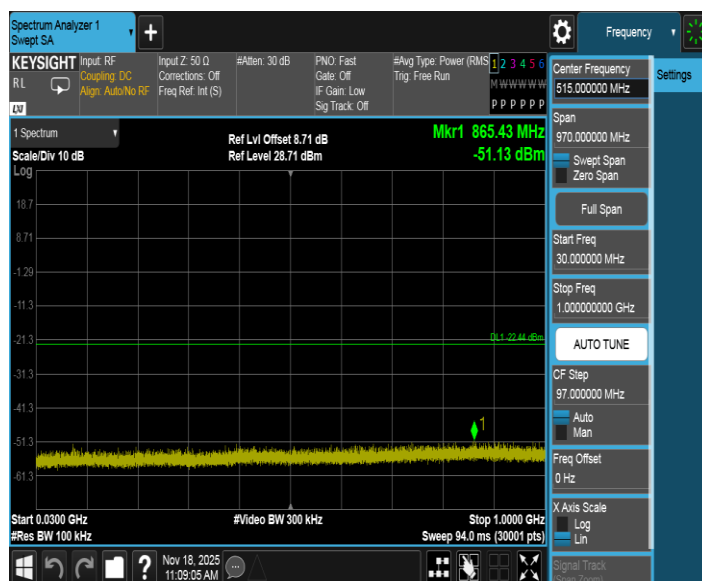


Test Graphs of Out-of-Band Emissions

BLE_1M_Ant1_2402_0~Reference



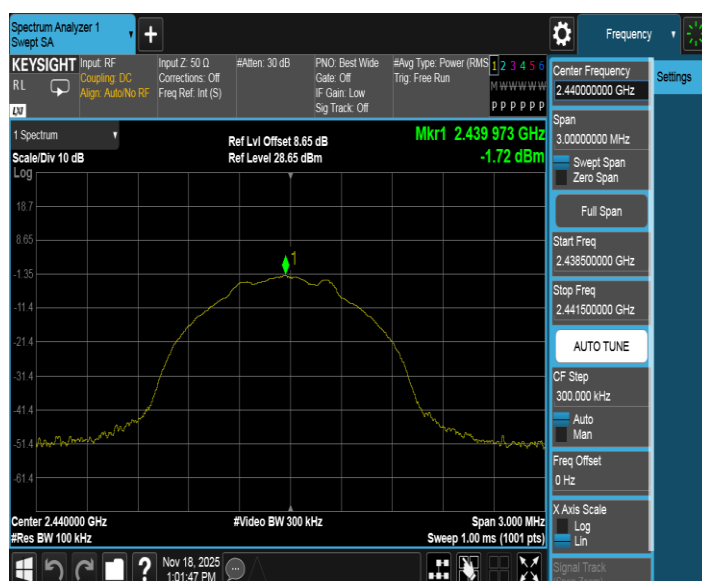
BLE_1M_Ant1_2402_30~1000



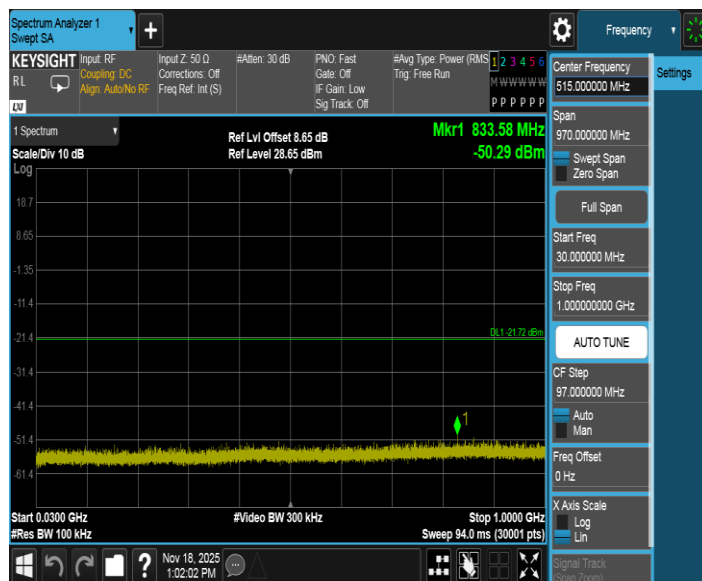
BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference



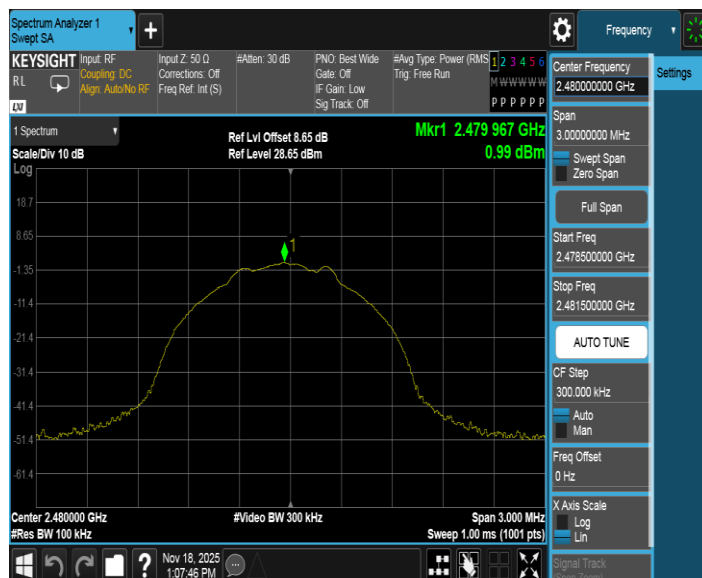
BLE_1M_Ant1_2440_30~1000



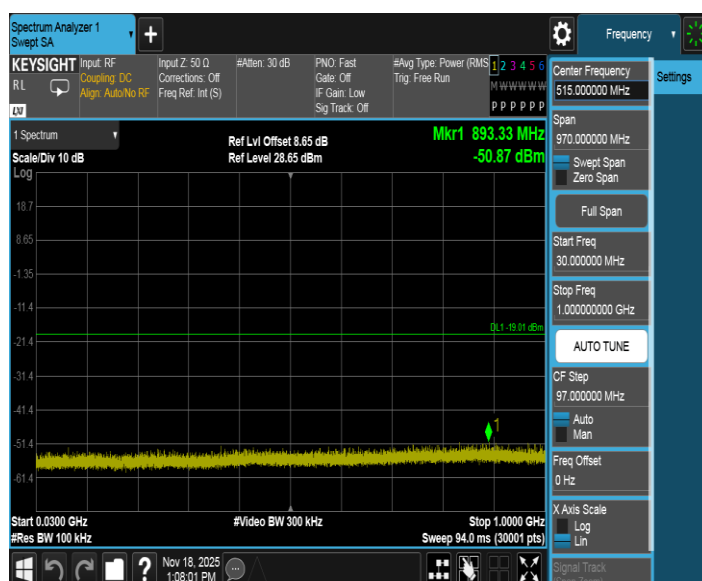
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



7.6. Radiated Spurious Emission Measurement

7.6.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR 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

7.6.2. Test Procedure Used

ANSI C63.10-2020 – Section 6.6.4.3

7.6.3. Test Setting

Peak Field Strength Measurements

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

- Trace was allowed to stabilize

Table 1 - RBW as a function of frequency

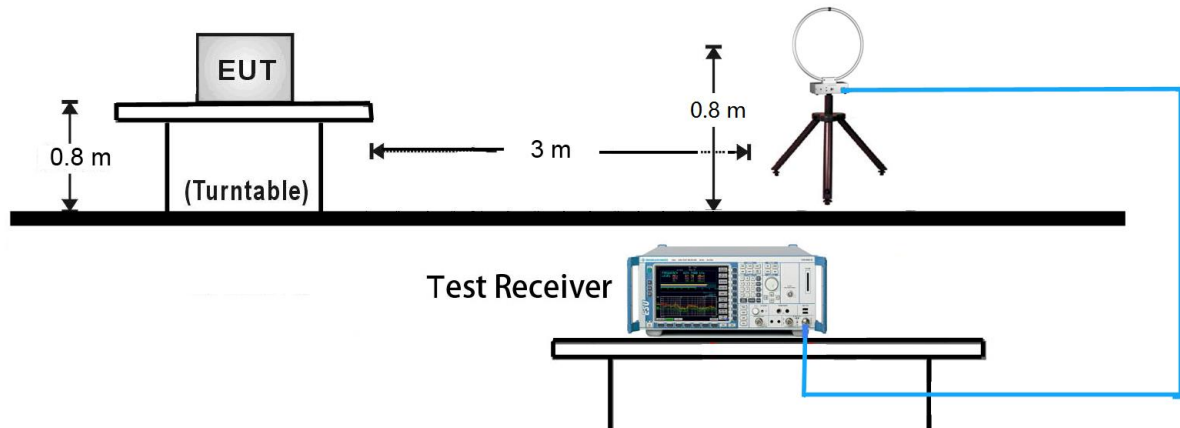
Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Average Field Strength Measurements

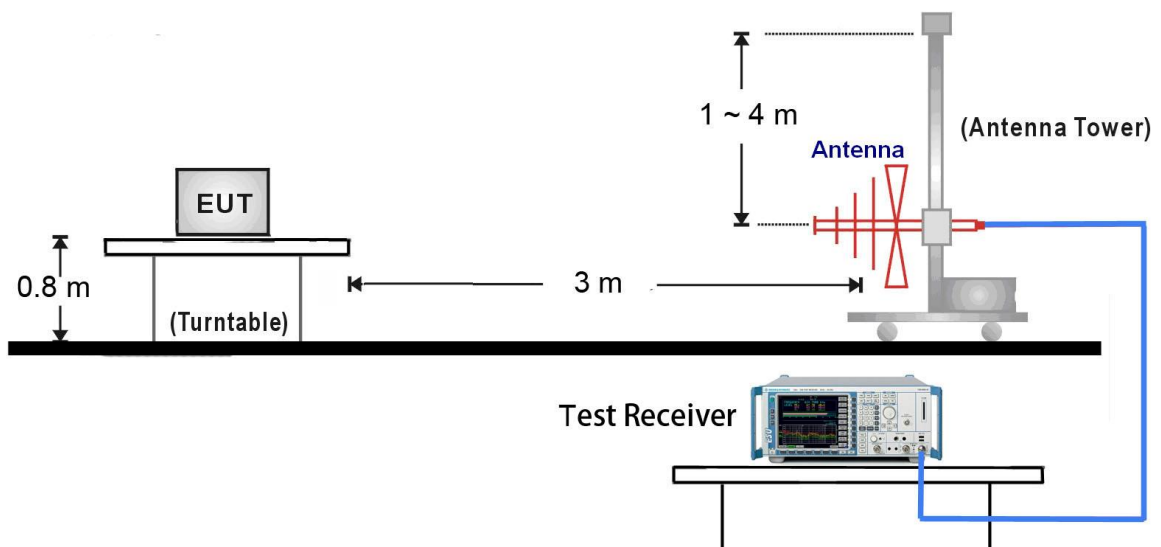
- Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- RBW = 1MHz
- VBW = 3MHz
- Detector = Power Average (RMS)
- Number of sweep point = 2001 (Number of sweep points must be $\geq 2 \times \text{span} / \text{RBW}$)
- Sweep time = auto
- Trace (RMS) averaging was performed over at least 100 traces.

7.6.4. Test Setup

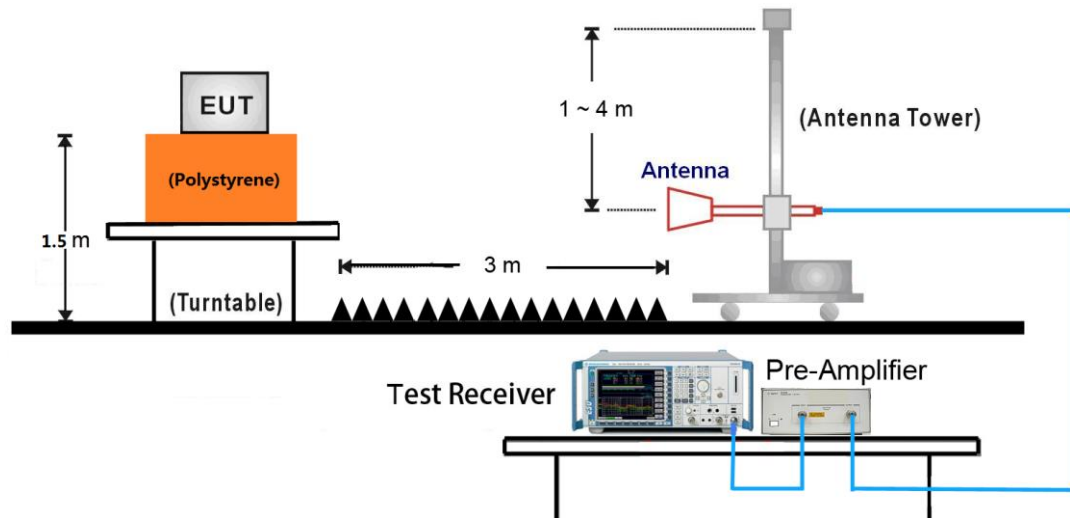
9kHz ~ 30MHz Test Setup:



30MHz ~ 1GHz Test Setup:



1GHz ~ 26.5GHz Test Setup:

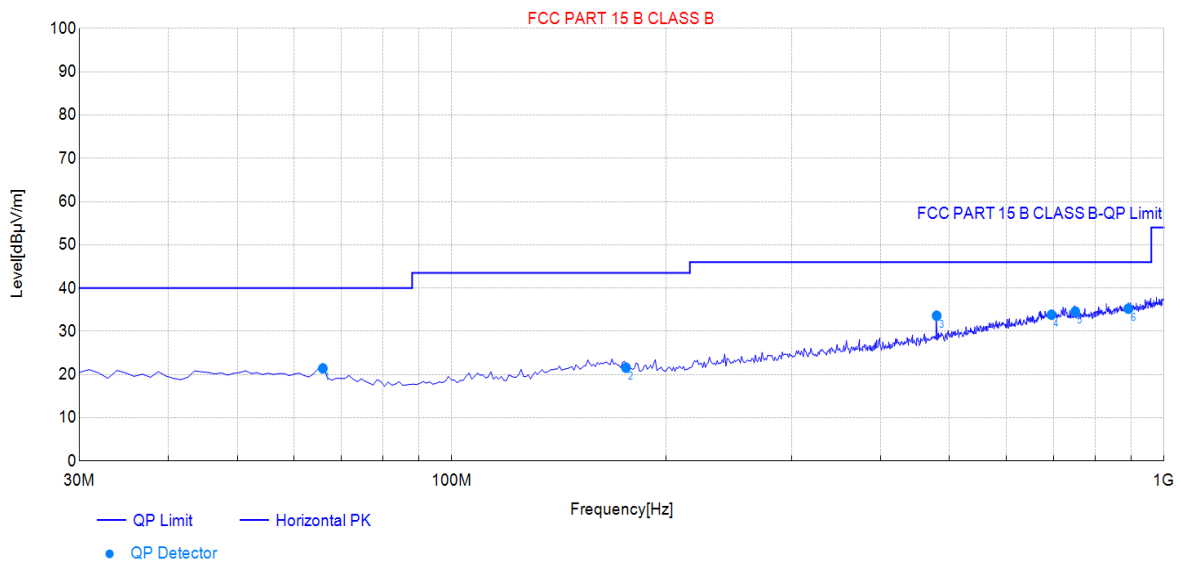


7.6.5. Test Result

The worst case of Radiated Emission below 1GHz:

30MHz – 1GHz Test Data

EUT:	DQube	Polarity:	Horizontal
Model:	DQRID01	Test Date:	2025-11-21
Mode:	Transmit at BLE Channel 00	Voltage:	DC 3.7 V from battery
Environment:	Temp: 22.4°C; Humi:49%	Engineer:	Stone Zhang



Final Data List										
NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pol	Verdict
1	65.93	13.24	8.17	21.41	40.00	18.59	200	97	Horizontal	PASS
2	175.65	15.29	6.29	21.58	43.50	21.92	200	298	Horizontal	PASS
3	479.56	20.66	12.94	33.60	46.00	12.40	100	114	Horizontal	PASS
4	695.12	24.98	8.85	33.83	46.00	12.17	200	91	Horizontal	PASS
5	750.46	25.57	8.99	34.56	46.00	11.44	100	175	Horizontal	PASS
6	891.25	27.28	7.96	35.24	46.00	10.76	200	81	Horizontal	PASS

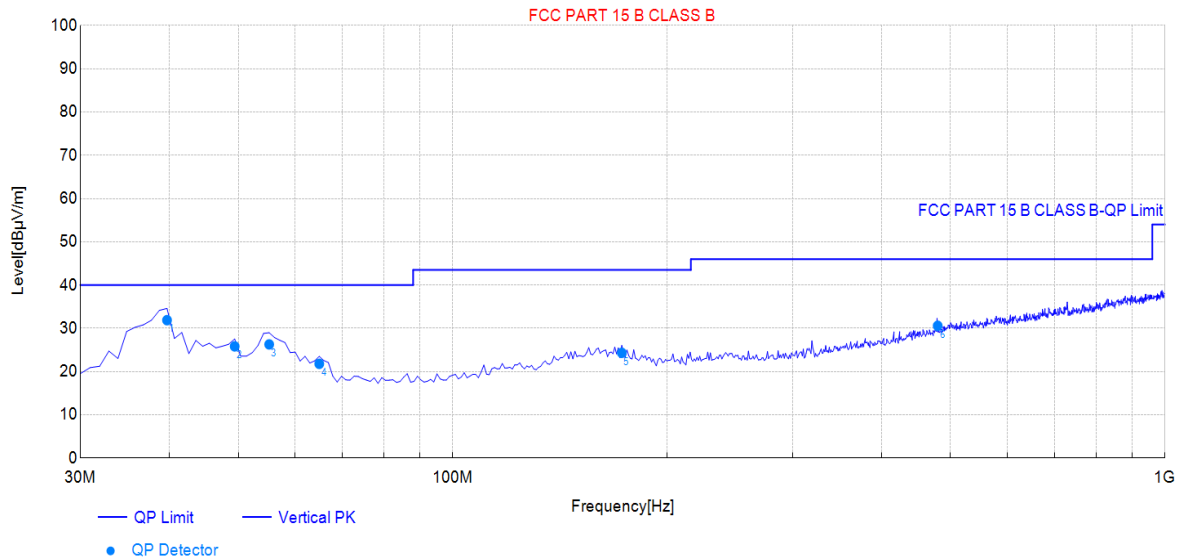
Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

(3) 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 ~ 25GHz), therefore no data appear in the report.

EUT:	DQube	Polarity:	Vertical
Model:	DQRID01	Test Date:	2025-11-21
Mode:	Transmit at BLE Channel 00	Voltage:	DC 3.7 V from battery
Environment:	Temp: 22.4°C; Humi:49%	Engineer:	Stone Zhang



Final Data List										
NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pol	Verdict
1	39.71	13.00	18.89	31.89	40.00	8.11	100	262	Vertical	PASS
2	49.42	13.33	12.5	25.83	40.00	14.17	100	70	Vertical	PASS
3	55.25	13.04	13.24	26.28	40.00	13.72	100	262	Vertical	PASS
4	64.95	12.09	9.71	21.80	40.00	18.20	200	325	Vertical	PASS
5	172.73	17.25	7.08	24.33	43.50	19.17	100	87	Vertical	PASS
6	479.56	21.56	9.02	30.58	46.00	15.42	100	73	Vertical	PASS

Note:

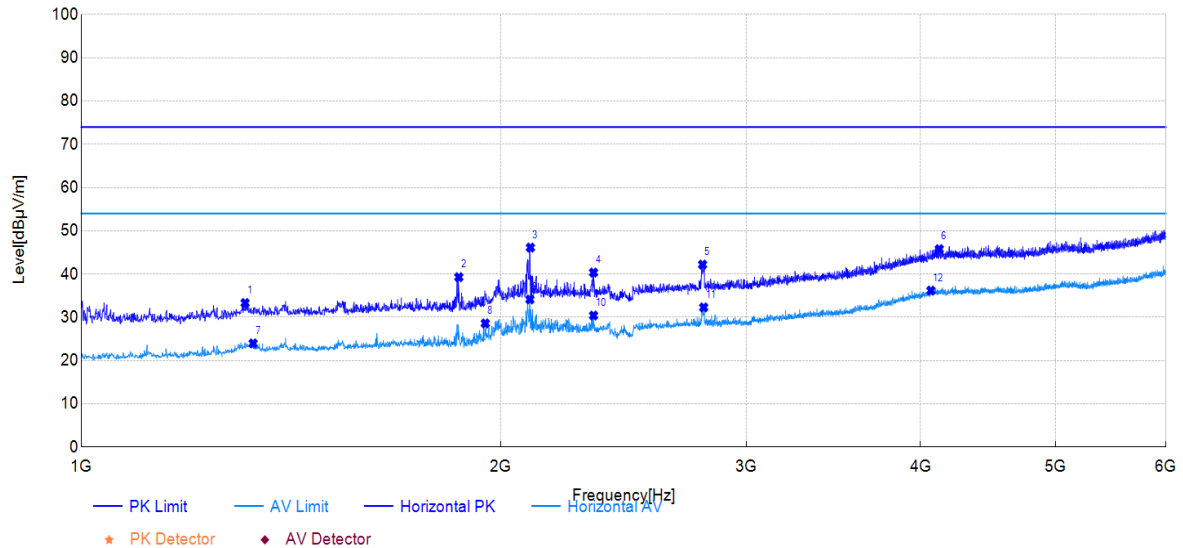
(1) Level=Reading + Factor

(2) Margin=Limit-Level

(3) 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 ~ 25GHz), therefore no data appear in the report.

1GHz-6GHz

Test Mode:	BLE	Test Date:	2025-11-21
Test Channel:	00	Test Engineer:	Stone Zhang



Suspected Data List

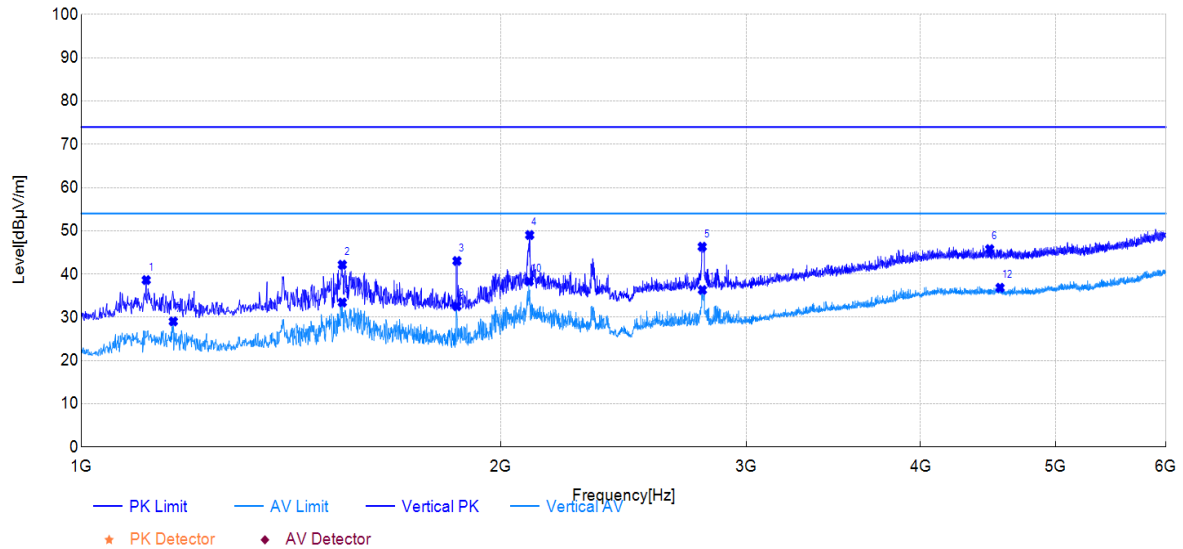
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1310.83	56.10	33.31	-22.79	74.00	40.69	150	55	PK	Horizontal	PASS
2	1865.83	58.30	39.28	-19.02	74.00	34.72	150	320	PK	Horizontal	PASS
3	2100.00	63.68	46.13	-17.55	74.00	27.87	150	138	PK	Horizontal	PASS
4	2330.83	57.17	40.36	-16.81	74.00	33.64	150	301	PK	Horizontal	PASS
5	2790.83	57.43	42.19	-15.24	74.00	31.81	150	127	PK	Horizontal	PASS
6	4125.83	53.88	45.77	-8.11	74.00	28.23	150	104	PK	Horizontal	PASS
7	1328.33	46.63	23.97	-22.66	54.00	30.03	150	55	AV	Horizontal	PASS
8	1949.17	47.02	28.60	-18.42	54.00	25.40	150	55	AV	Horizontal	PASS
9	2098.33	51.67	34.12	-17.55	54.00	19.88	150	134	AV	Horizontal	PASS
10	2330.83	47.22	30.41	-16.81	54.00	23.59	150	301	AV	Horizontal	PASS
11	2795.83	47.53	32.29	-15.24	54.00	21.71	150	127	AV	Horizontal	PASS
12	4069.17	44.46	36.19	-8.27	54.00	17.81	150	206	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-11-21
Test Channel:	00	Test Engineer:	Stone Zhang



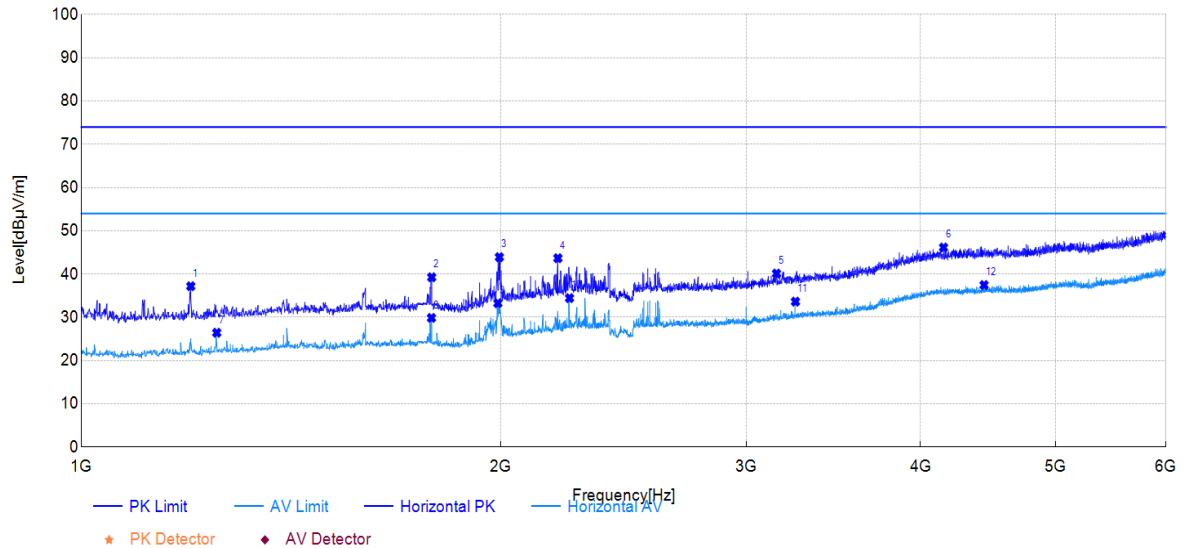
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1113.33	61.58	38.61	-22.97	74.00	35.39	150	82	PK	Vertical	PASS
2	1539.17	62.82	42.16	-20.66	74.00	31.84	150	105	PK	Vertical	PASS
3	1860.00	61.93	43.03	-18.90	74.00	30.97	150	82	PK	Vertical	PASS
4	2097.50	66.64	49.02	-17.62	74.00	24.98	150	358	PK	Vertical	PASS
5	2789.17	61.40	46.32	-15.08	74.00	27.68	150	105	PK	Vertical	PASS
6	4484.17	53.47	45.77	-7.70	74.00	28.23	150	336	PK	Vertical	PASS
7	1164.17	51.80	29.05	-22.75	54.00	24.95	150	79	AV	Vertical	PASS
8	1539.17	54.09	33.43	-20.66	54.00	20.57	150	105	AV	Vertical	PASS
9	1860.00	51.45	32.55	-18.90	54.00	21.45	150	82	AV	Vertical	PASS
10	2095.83	55.94	38.31	-17.63	54.00	15.69	150	82	AV	Vertical	PASS
11	2790.00	51.40	36.32	-15.08	54.00	17.68	150	105	AV	Vertical	PASS
12	4561.67	44.37	36.83	-7.54	54.00	17.17	150	105	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-11-21
Test Channel:	19	Test Engineer:	Stone Zhang



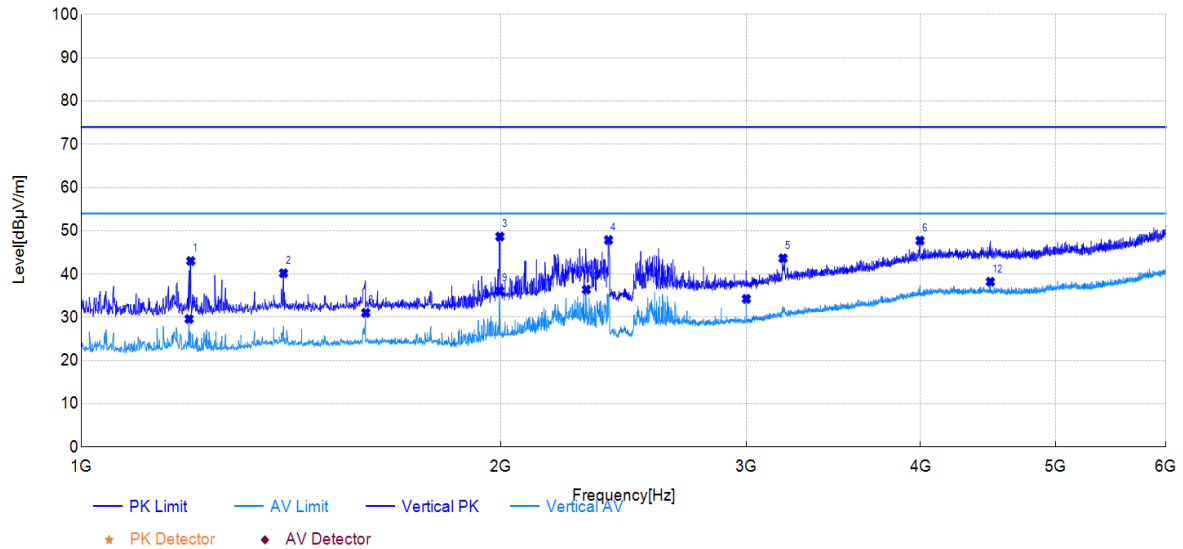
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1198.33	60.67	37.19	-23.48	74.00	36.81	150	81	PK	Horizontal	PASS
2	1784.17	58.72	39.26	-19.46	74.00	34.74	150	100	PK	Horizontal	PASS
3	1995.00	61.91	43.91	-18.00	74.00	30.09	150	154	PK	Horizontal	PASS
4	2197.50	60.89	43.67	-17.22	74.00	30.33	150	180	PK	Horizontal	PASS
5	3153.33	53.91	40.12	-13.79	74.00	33.88	150	342	PK	Horizontal	PASS
6	4155.00	54.24	46.14	-8.10	74.00	27.86	150	128	PK	Horizontal	PASS
7	1250.83	49.60	26.43	-23.17	54.00	27.57	150	267	AV	Horizontal	PASS
8	1783.33	49.32	29.86	-19.46	54.00	24.14	150	85	AV	Horizontal	PASS
9	1990.00	51.31	33.26	-18.05	54.00	20.74	150	93	AV	Horizontal	PASS
10	2240.00	51.54	34.44	-17.10	54.00	19.56	150	85	AV	Horizontal	PASS
11	3253.33	46.96	33.62	-13.34	54.00	20.38	150	285	AV	Horizontal	PASS
12	4442.50	45.04	37.46	-7.58	54.00	16.54	150	24	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-11-21
Test Channel:	19	Test Engineer:	Stone Zhang



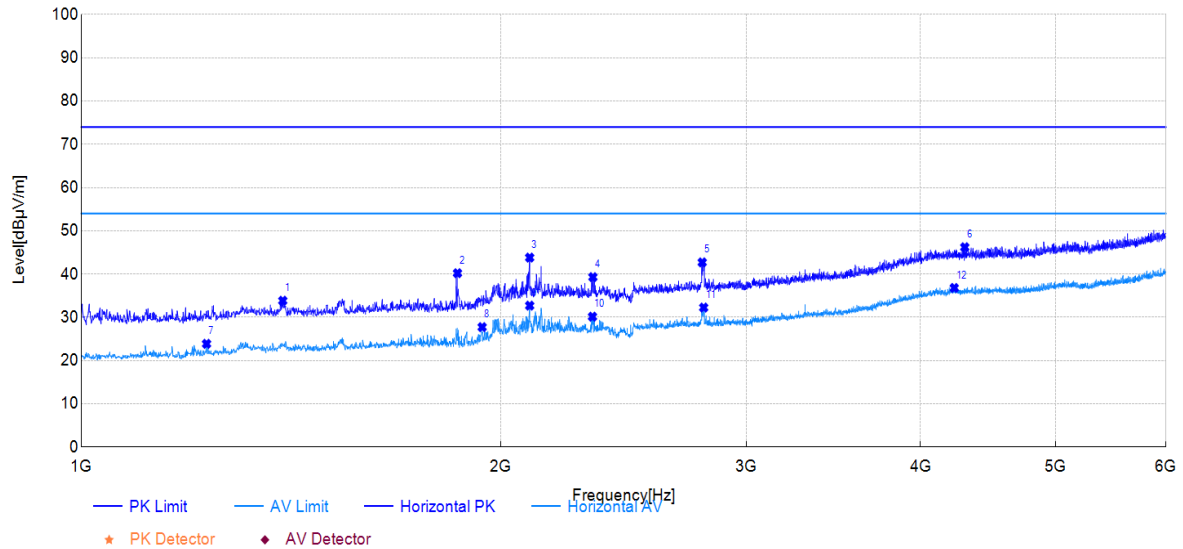
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1198.33	65.65	43.03	-22.62	74.00	30.97	150	75	PK	Vertical	PASS
2	1396.67	61.54	40.20	-21.34	74.00	33.80	150	110	PK	Vertical	PASS
3	1996.67	66.75	48.67	-18.08	74.00	25.33	150	110	PK	Vertical	PASS
4	2389.17	64.36	47.87	-16.49	74.00	26.13	150	60	PK	Vertical	PASS
5	3187.50	56.74	43.64	-13.10	74.00	30.36	150	56	PK	Vertical	PASS
6	3996.67	56.13	47.73	-8.40	74.00	26.27	150	87	PK	Vertical	PASS
7	1195.00	52.25	29.62	-22.63	54.00	24.38	150	75	AV	Vertical	PASS
8	1600.00	51.38	31.03	-20.35	54.00	22.97	150	201	AV	Vertical	PASS
9	1996.67	54.17	36.09	-18.08	54.00	17.91	150	110	AV	Vertical	PASS
10	2303.33	53.31	36.41	-16.90	54.00	17.59	150	68	AV	Vertical	PASS
11	3000.00	48.51	34.26	-14.25	54.00	19.74	150	68	AV	Vertical	PASS
12	4489.17	45.91	38.22	-7.69	54.00	15.78	150	160	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-11-21
Test Channel:	39	Test Engineer:	Stone Zhang



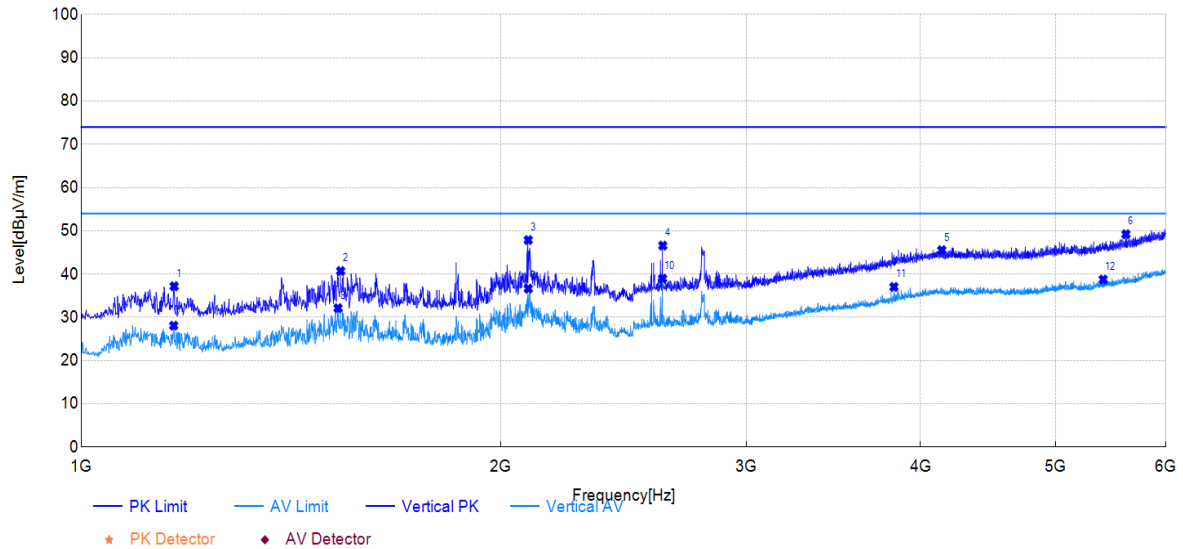
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1395.00	56.01	33.84	-22.17	74.00	40.16	150	62	PK	Horizontal	PASS
2	1861.67	59.24	40.20	-19.04	74.00	33.80	150	301	PK	Horizontal	PASS
3	2097.50	61.37	43.81	-17.56	74.00	30.19	150	118	PK	Horizontal	PASS
4	2328.33	56.11	39.29	-16.82	74.00	34.71	150	73	PK	Horizontal	PASS
5	2789.17	57.94	42.70	-15.24	74.00	31.30	150	121	PK	Horizontal	PASS
6	4303.33	53.93	46.20	-7.73	74.00	27.80	150	230	PK	Horizontal	PASS
7	1230.00	47.16	23.87	-23.29	54.00	30.13	150	36	AV	Horizontal	PASS
8	1939.17	46.24	27.73	-18.51	54.00	26.27	150	54	AV	Horizontal	PASS
9	2097.50	50.26	32.70	-17.56	54.00	21.30	150	118	AV	Horizontal	PASS
10	2326.67	46.96	30.14	-16.82	54.00	23.86	150	313	AV	Horizontal	PASS
11	2795.83	47.49	32.25	-15.24	54.00	21.75	150	43	AV	Horizontal	PASS
12	4229.17	44.76	36.79	-7.97	54.00	17.21	150	185	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-11-21
Test Channel:	39	Test Engineer:	Stone Zhang



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1165.83	59.93	37.18	-22.75	74.00	36.82	150	275	PK	Vertical	PASS
2	1535.00	61.38	40.70	-20.68	74.00	33.30	150	109	PK	Vertical	PASS
3	2092.50	65.50	47.86	-17.64	74.00	26.14	150	158	PK	Vertical	PASS
4	2613.33	62.15	46.58	-15.57	74.00	27.42	150	135	PK	Vertical	PASS
5	4143.33	53.54	45.52	-8.02	74.00	28.48	150	351	PK	Vertical	PASS
6	5615.83	54.91	49.21	-5.70	74.00	24.79	150	263	PK	Vertical	PASS
7	1165.00	50.83	28.07	-22.76	54.00	25.93	150	79	AV	Vertical	PASS
8	1528.33	52.83	32.12	-20.71	54.00	21.88	150	112	AV	Vertical	PASS
9	2092.50	54.28	36.64	-17.64	54.00	17.36	150	158	AV	Vertical	PASS
10	2612.50	54.52	38.95	-15.57	54.00	15.05	150	135	AV	Vertical	PASS
11	3828.33	46.46	37.02	-9.44	54.00	16.98	150	124	AV	Vertical	PASS
12	5408.33	44.74	38.74	-6.00	54.00	15.26	150	0	AV	Vertical	PASS

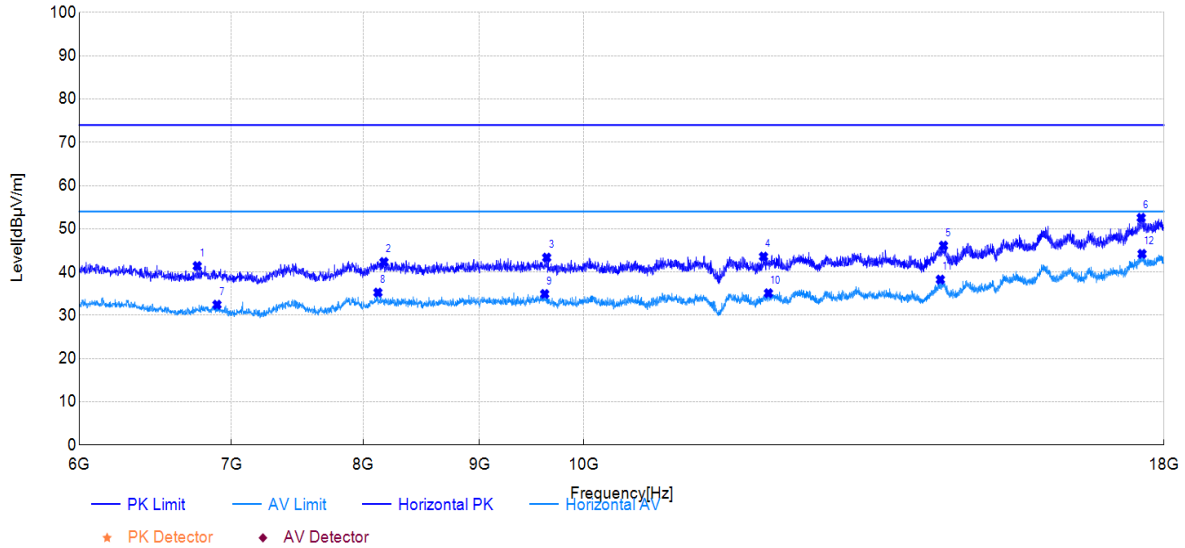
Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

6GHz-18GHz

Test Mode:	BLE	Test Date:	2025-11-21
Test Channel:	00	Test Engineer:	Stone Zhang



Suspected Data List

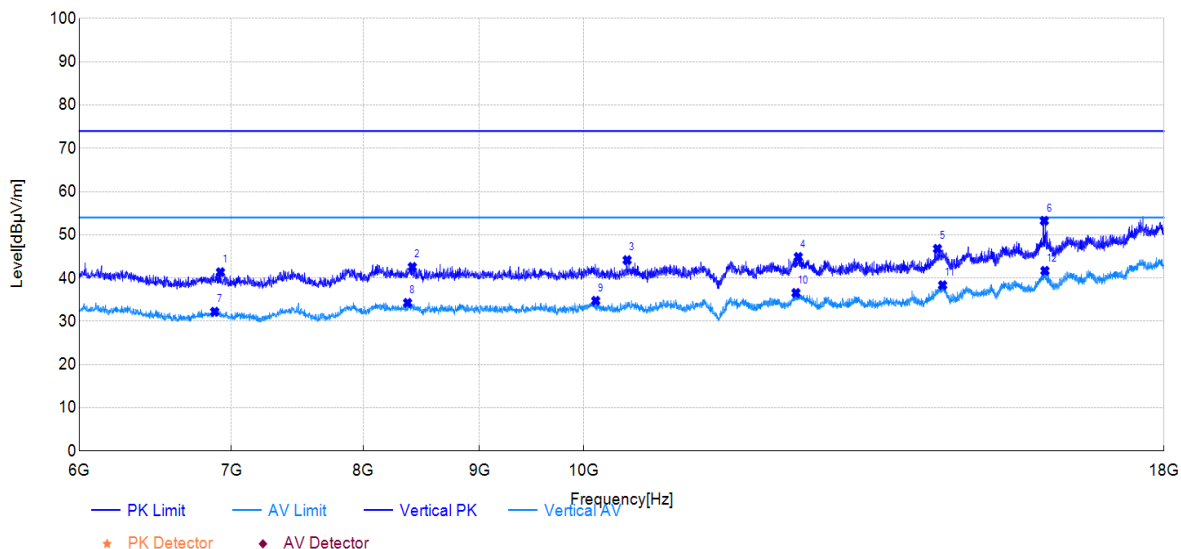
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	6762.00	46.70	41.39	-5.31	74.00	32.61	150	298	PK	Horizontal	PASS
2	8169.00	43.81	42.32	-1.49	74.00	31.68	150	45	PK	Horizontal	PASS
3	9633.00	43.61	43.34	-0.27	74.00	30.66	150	345	PK	Horizontal	PASS
4	11998.50	42.04	43.57	1.53	74.00	30.43	150	283	PK	Horizontal	PASS
5	14397.00	41.06	46.11	5.05	74.00	27.89	150	146	PK	Horizontal	PASS
6	17589.00	38.57	52.55	13.98	74.00	21.45	150	108	PK	Horizontal	PASS
7	6898.50	37.05	32.45	-4.60	54.00	21.55	150	2	AV	Horizontal	PASS
8	8119.50	36.55	35.26	-1.29	54.00	18.74	150	333	AV	Horizontal	PASS
9	9613.50	35.00	34.93	-0.07	54.00	19.07	150	317	AV	Horizontal	PASS
10	12058.50	33.61	35.11	1.50	54.00	18.89	150	1	AV	Horizontal	PASS
11	14352.00	33.38	38.25	4.87	54.00	15.75	150	345	AV	Horizontal	PASS
12	17604.00	30.14	44.20	14.06	54.00	9.80	150	45	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-11-21
Test Channel:	00	Test Engineer:	Stone Zhang



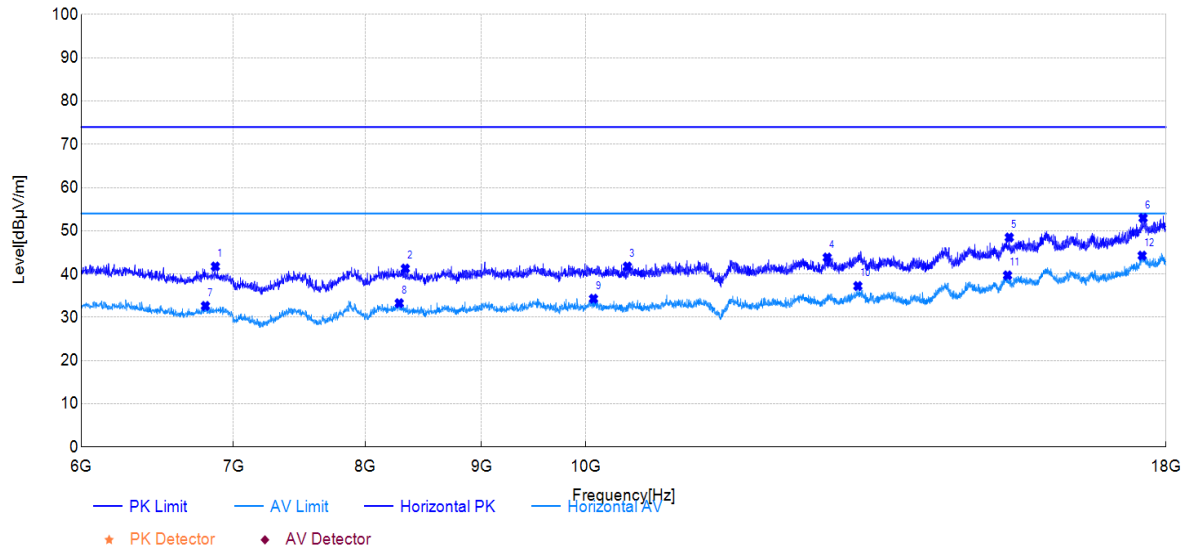
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	6922.50	45.77	41.36	-4.41	74.00	32.64	150	181	PK	Vertical	PASS
2	8407.50	43.64	42.57	-1.07	74.00	31.43	150	60	PK	Vertical	PASS
3	10450.50	43.60	44.15	0.55	74.00	29.85	150	298	PK	Vertical	PASS
4	12429.00	42.17	44.88	2.71	74.00	29.12	150	321	PK	Vertical	PASS
5	14310.00	41.59	46.77	5.18	74.00	27.23	150	115	PK	Vertical	PASS
6	15945.00	44.19	53.24	9.05	74.00	20.76	150	64	PK	Vertical	PASS
7	6882.00	36.62	32.21	-4.41	54.00	21.79	150	325	AV	Vertical	PASS
8	8367.00	35.37	34.26	-1.11	54.00	19.74	150	99	AV	Vertical	PASS
9	10123.50	34.64	34.74	0.10	54.00	19.26	150	344	AV	Vertical	PASS
10	12399.00	33.92	36.56	2.64	54.00	17.44	150	360	AV	Vertical	PASS
11	14385.00	32.92	38.34	5.42	54.00	15.66	150	181	AV	Vertical	PASS
12	15955.50	32.62	41.67	9.05	54.00	12.33	150	32	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-11-21
Test Channel:	19	Test Engineer:	Stone Zhang



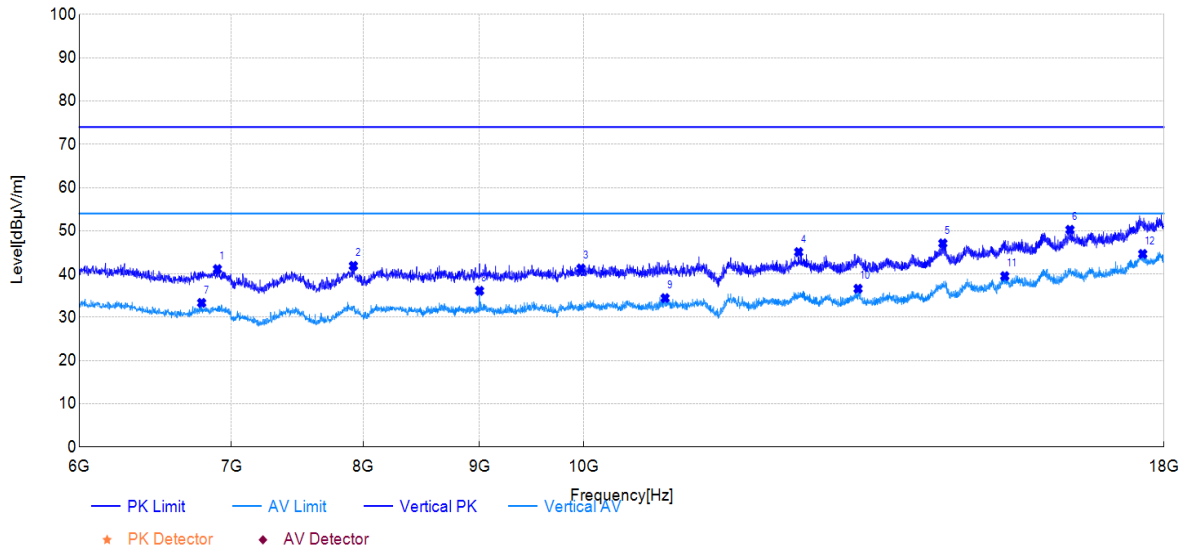
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	6873.00	46.45	41.75	-4.70	74.00	32.25	150	177	PK	Horizontal	PASS
2	8331.00	42.52	41.27	-1.25	74.00	32.73	150	244	PK	Horizontal	PASS
3	10432.50	41.56	41.74	0.18	74.00	32.26	150	158	PK	Horizontal	PASS
4	12772.50	41.83	43.82	1.99	74.00	30.18	150	135	PK	Horizontal	PASS
5	15358.50	41.40	48.46	7.06	74.00	25.54	150	142	PK	Horizontal	PASS
6	17587.50	38.98	52.94	13.96	74.00	21.06	150	206	PK	Horizontal	PASS
7	6804.00	37.62	32.63	-4.99	54.00	21.37	150	251	AV	Horizontal	PASS
8	8280.00	34.63	33.26	-1.37	54.00	20.74	150	310	AV	Horizontal	PASS
9	10080.00	34.22	34.30	0.08	54.00	19.70	150	353	AV	Horizontal	PASS
10	13174.50	33.86	37.23	3.37	54.00	16.77	150	275	AV	Horizontal	PASS
11	15331.50	32.54	39.70	7.16	54.00	14.30	150	206	AV	Horizontal	PASS
12	17571.00	30.45	44.26	13.81	54.00	9.74	150	213	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-11-21
Test Channel:	19	Test Engineer:	Stone Zhang



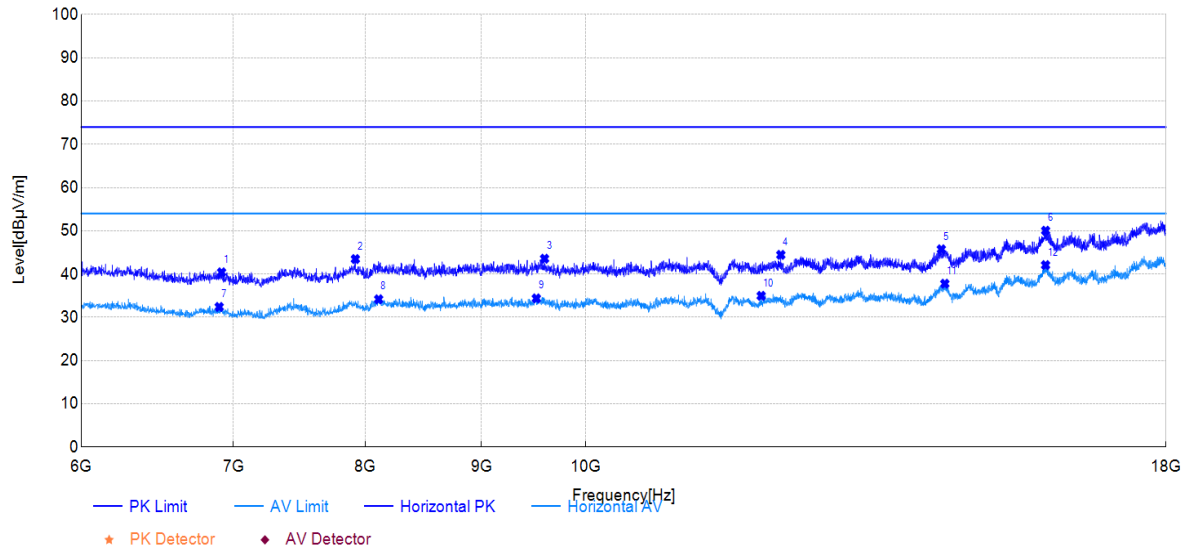
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	6901.50	45.47	41.15	-4.32	74.00	32.85	150	212	PK	Vertical	PASS
2	7920.00	43.11	41.89	-1.22	74.00	32.11	150	53	PK	Vertical	PASS
3	9973.50	41.25	41.29	0.04	74.00	32.71	150	352	PK	Vertical	PASS
4	12433.50	42.38	45.09	2.71	74.00	28.91	150	279	PK	Vertical	PASS
5	14388.00	41.67	47.10	5.43	74.00	26.90	150	204	PK	Vertical	PASS
6	16365.00	40.60	50.24	9.64	74.00	23.76	150	197	PK	Vertical	PASS
7	6792.00	38.25	33.33	-4.92	54.00	20.67	150	65	AV	Vertical	PASS
8	9000.00	37.21	36.13	-1.08	54.00	17.87	150	116	AV	Vertical	PASS
9	10860.00	33.64	34.44	0.80	54.00	19.56	150	267	AV	Vertical	PASS
10	13204.50	33.70	36.61	2.91	54.00	17.39	150	111	AV	Vertical	PASS
11	15319.50	32.35	39.53	7.18	54.00	14.47	150	15	AV	Vertical	PASS
12	17616.00	30.06	44.65	14.59	54.00	9.35	150	344	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-11-21
Test Channel:	39	Test Engineer:	Stone Zhang



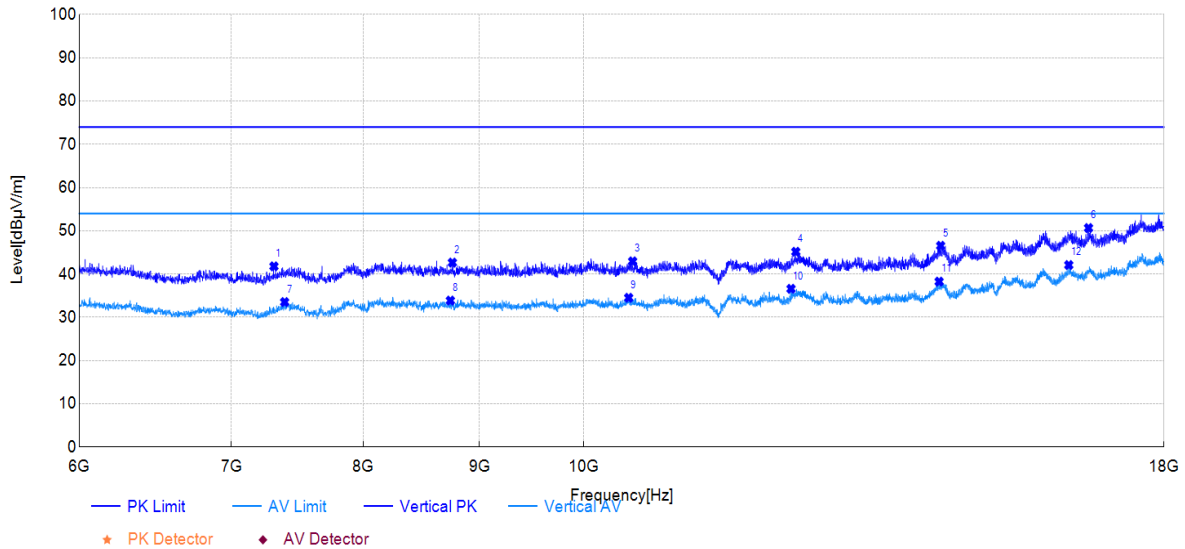
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	6916.50	45.08	40.40	-4.68	74.00	33.60	150	139	PK	Horizontal	PASS
2	7920.00	44.68	43.47	-1.21	74.00	30.53	150	235	PK	Horizontal	PASS
3	9592.50	43.46	43.55	0.09	74.00	30.45	150	0	PK	Horizontal	PASS
4	12186.00	42.76	44.44	1.68	74.00	29.56	150	205	PK	Horizontal	PASS
5	14337.00	40.93	45.73	4.80	74.00	28.27	150	104	PK	Horizontal	PASS
6	15934.50	40.41	50.03	9.62	74.00	23.97	150	0	PK	Horizontal	PASS
7	6900.00	36.99	32.40	-4.59	54.00	21.60	150	257	AV	Horizontal	PASS
8	8109.00	35.41	34.17	-1.24	54.00	19.83	150	205	AV	Horizontal	PASS
9	9513.00	34.06	34.37	0.31	54.00	19.63	150	0	AV	Horizontal	PASS
10	11946.00	33.66	34.96	1.30	54.00	19.04	150	193	AV	Horizontal	PASS
11	14388.00	32.75	37.77	5.02	54.00	16.23	150	177	AV	Horizontal	PASS
12	15933.00	32.45	42.07	9.62	54.00	11.93	150	8	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-11-21
Test Channel:	39	Test Engineer:	Stone Zhang



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	7308.00	45.09	41.78	-3.31	74.00	32.22	150	230	PK	Vertical	PASS
2	8755.50	43.87	42.64	-1.23	74.00	31.36	150	190	PK	Vertical	PASS
3	10509.00	42.08	42.93	0.85	74.00	31.07	150	175	PK	Vertical	PASS
4	12397.50	42.52	45.15	2.63	74.00	28.85	150	315	PK	Vertical	PASS
5	14356.50	41.21	46.54	5.33	74.00	27.46	150	0	PK	Vertical	PASS
6	16675.50	40.41	50.65	10.24	74.00	23.35	150	0	PK	Vertical	PASS
7	7387.50	36.24	33.52	-2.72	54.00	20.48	150	11	AV	Vertical	PASS
8	8737.50	35.10	33.87	-1.23	54.00	20.13	150	89	AV	Vertical	PASS
9	10467.00	33.85	34.51	0.66	54.00	19.49	150	331	AV	Vertical	PASS
10	12337.50	34.40	36.59	2.19	54.00	17.41	150	160	AV	Vertical	PASS
11	14334.00	33.00	38.25	5.25	54.00	15.75	150	27	AV	Vertical	PASS
12	16345.50	32.56	42.09	9.53	54.00	11.91	150	105	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

7.7. Radiated Restricted Band Edge Measurement

7.7.1. Test Limit

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	156.52480 - 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

7.7.2. Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

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

7.7.3. Test Setting

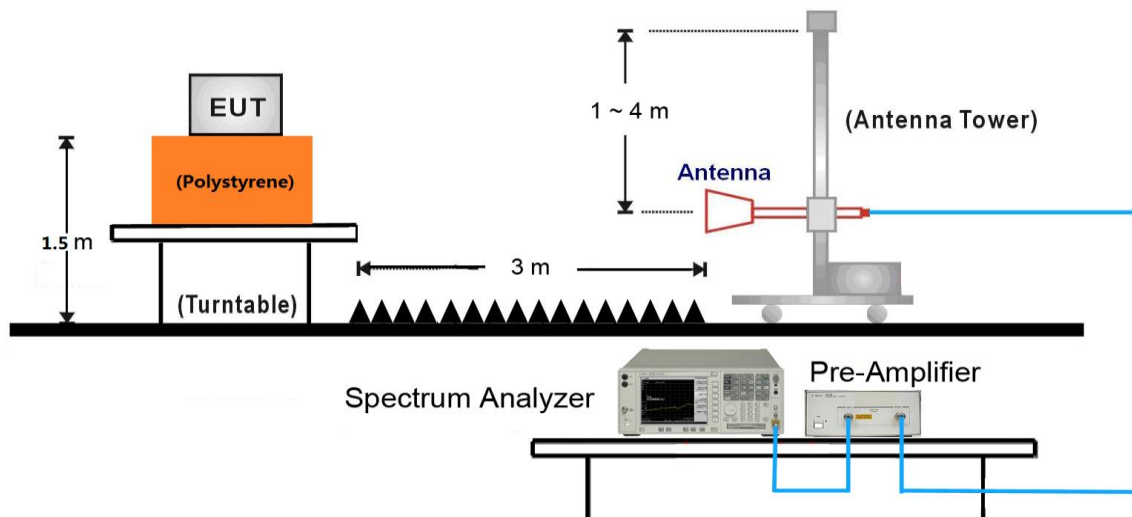
Peak Field Strength Measurements

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 Field Strength Measurements

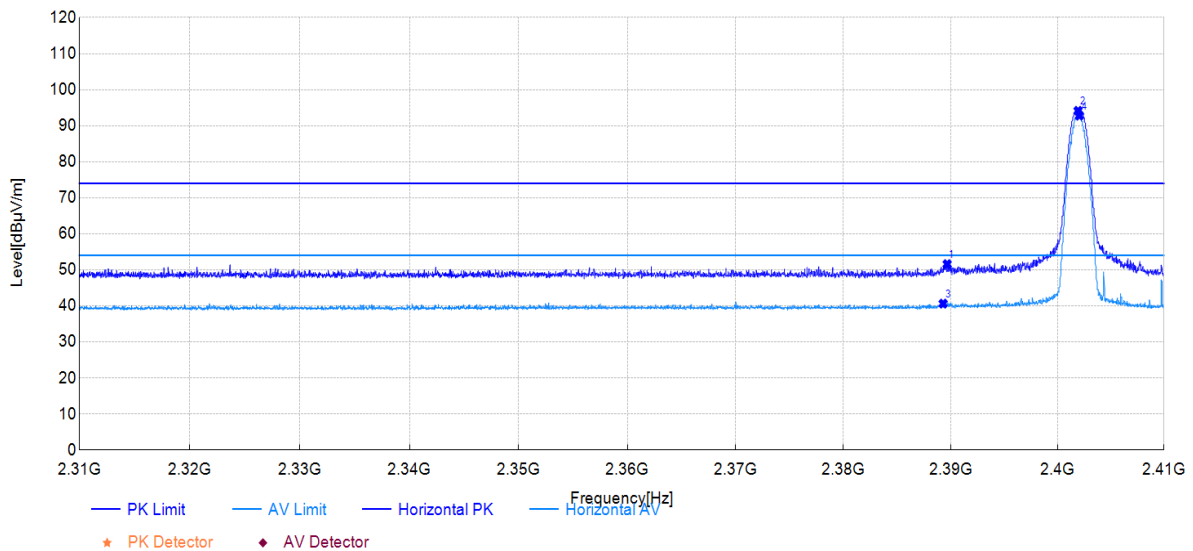
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Power Average (RMS)
5. Number of sweep point = 2001 (Number of sweep points must be $\geq 2 \times \text{span} / \text{RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces.

7.7.4. Test Setup



7.7.5. Test Result

Project Information			
EUT:	DQube	Model:	DQRID01
Test Date:	2025-11-24	Voltage:	DC 3.7 V from battery
Environment:	Temp: 22.8°C; Humi:48%	Engineer:	Stone Zhang
Remark:	Transmit by BLE at Channel 2402MHz		

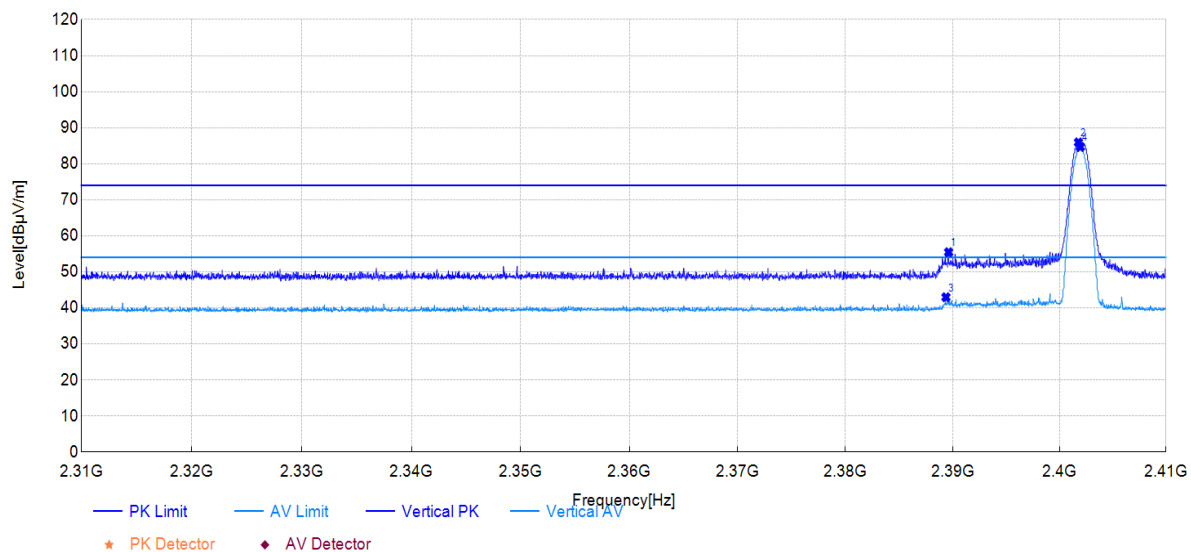


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2389.67	16.29	51.59	35.30	74.00	22.41	150	153	PK	Horizontal	PASS
2	2401.92	58.86	94.13	35.27	/	/	150	77	PK	Horizontal	PASS
3	2389.29	5.33	40.63	35.30	54.00	13.37	150	65	AV	Horizontal	PASS
4	2402.05	57.51	92.79	35.28	/	/	150	77	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level



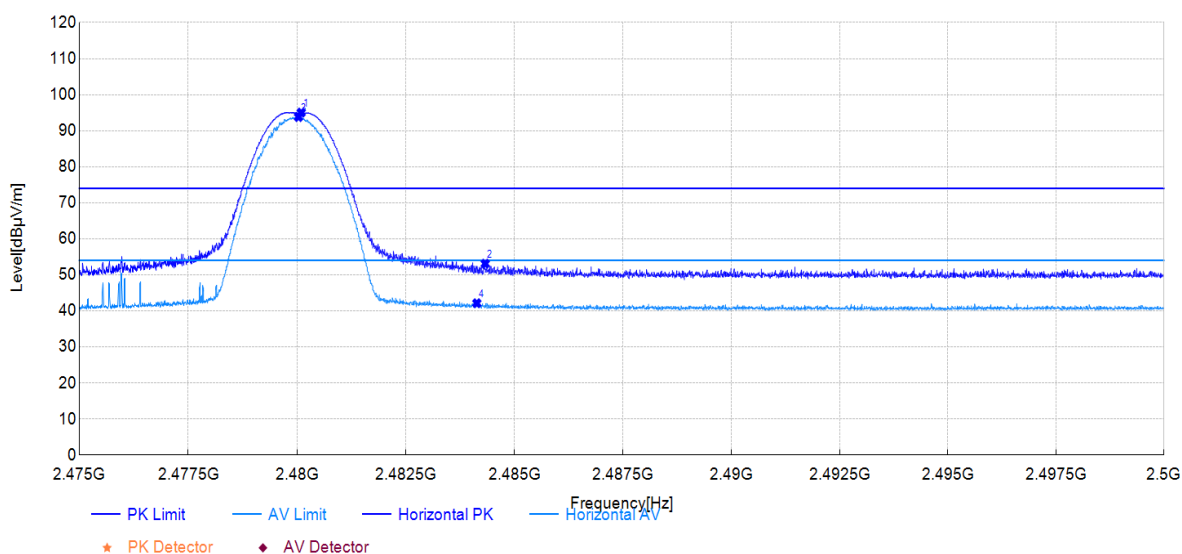
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2389.62	20.10	55.45	35.35	74.00	18.55	150	44	PK	Vertical	PASS
2	2401.77	50.59	85.92	35.33	/	/	150	48	PK	Vertical	PASS
3	2389.37	7.61	42.96	35.35	54.00	11.04	150	48	AV	Vertical	PASS
4	2401.95	49.32	84.65	35.33	/	/	150	44	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Project Information			
EUT:	DQube	Model:	DQRID01
Test Date:	2025-11-24	Voltage:	DC 3.7 V from battery
Environment:	Temp: 22.8°C; Humi:48%	Engineer:	Stone Zhang
Remark:	Transmit by BLE at Channel 2480MHz		

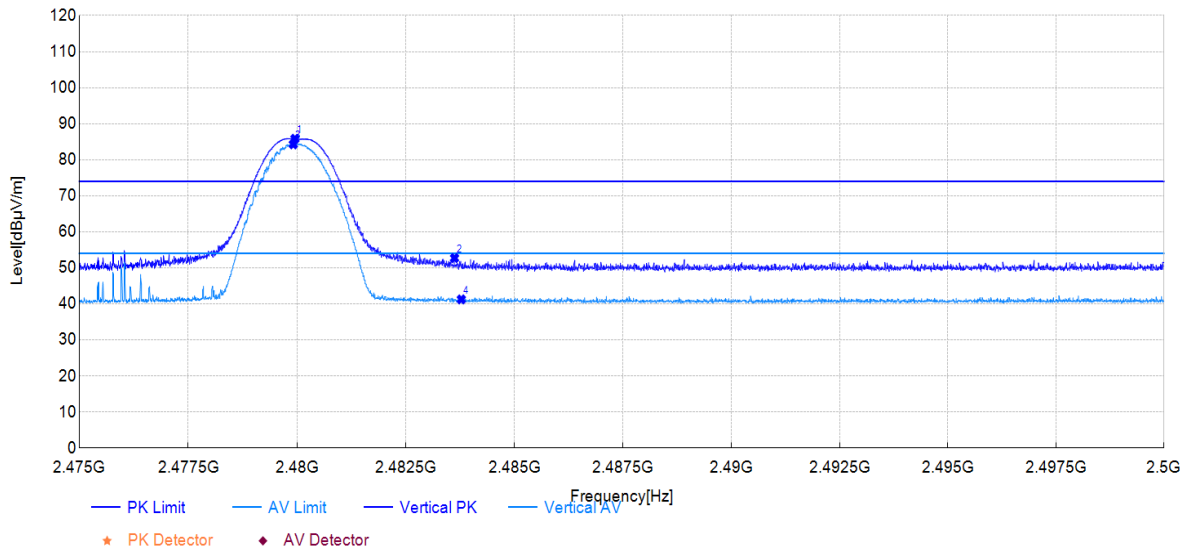


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2480.10	59.04	95.02	35.98	/	/	150	76	PK	Horizontal	PASS
2	2484.33	17.08	53.10	36.02	74.00	20.90	150	41	PK	Horizontal	PASS
3	2480.03	57.82	93.80	35.98	/	/	150	76	AV	Horizontal	PASS
4	2484.13	6.11	42.13	36.02	54.00	11.87	150	43	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2479.95	49.74	85.81	36.07	/	/	150	68	PK	Vertical	PASS
2	2483.62	16.60	52.71	36.11	74.00	21.29	150	71	PK	Vertical	PASS
3	2479.91	48.21	84.28	36.07	/	/	150	68	AV	Vertical	PASS
4	2483.78	5.14	41.25	36.11	54.00	12.75	150	71	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

7.8. AC Conducted Emissions Measurement

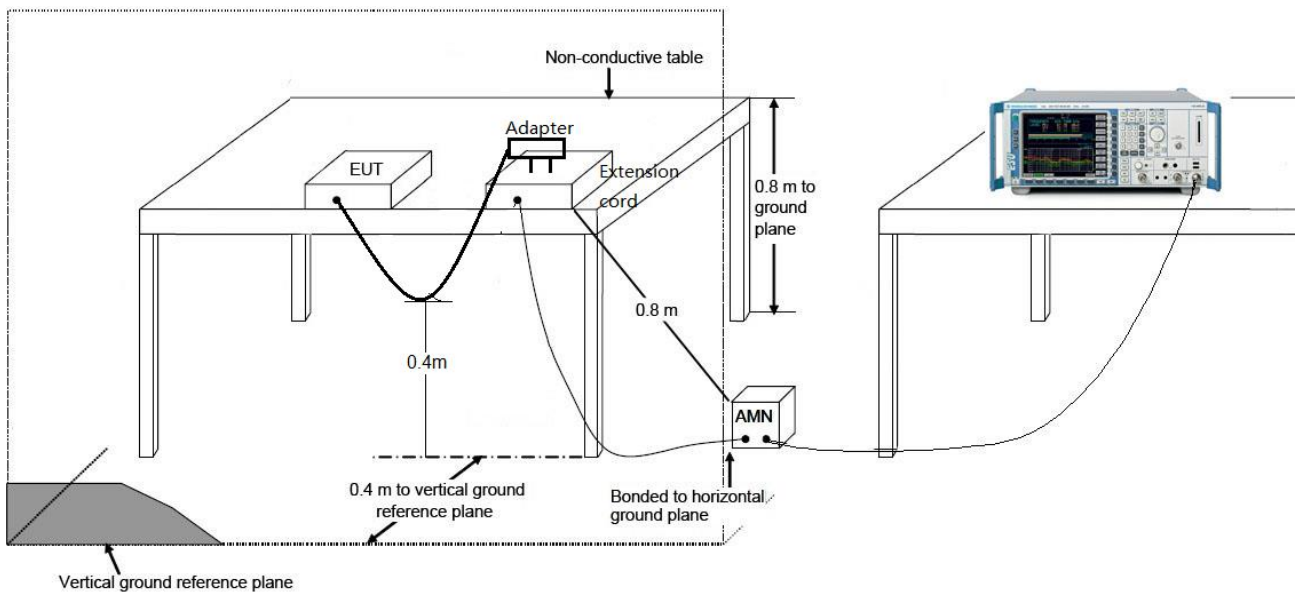
7.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
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.

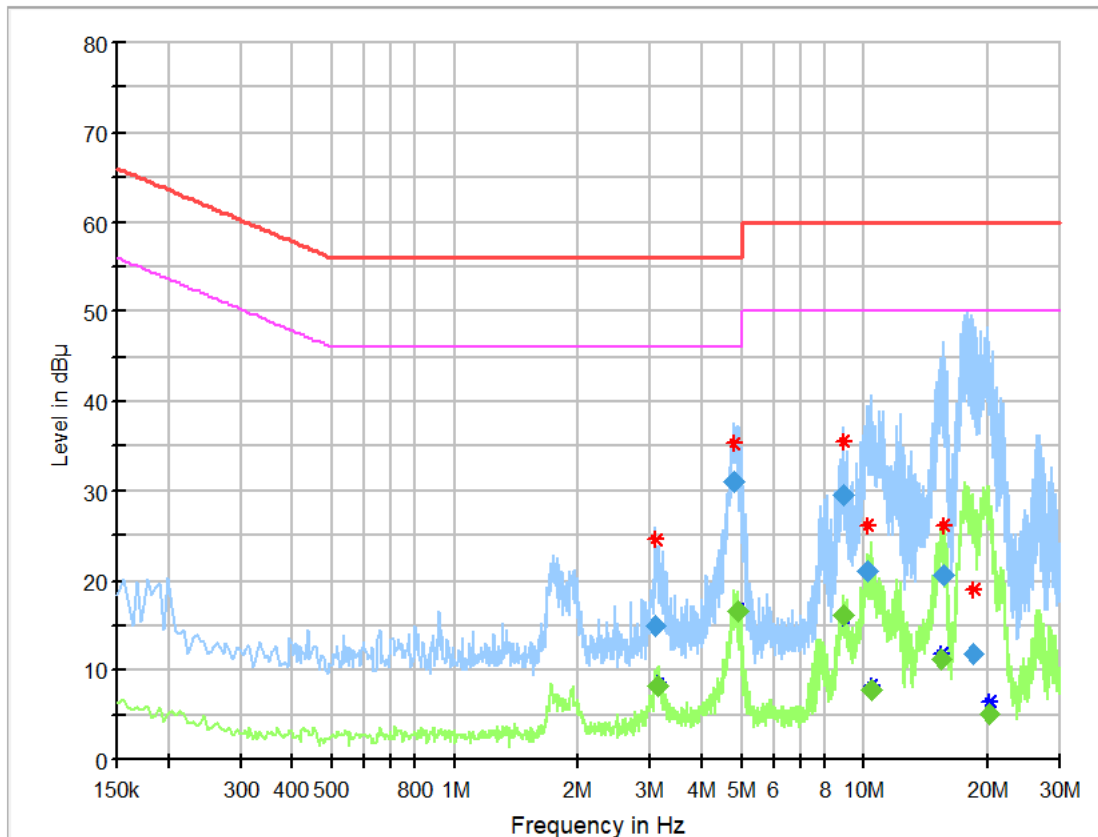
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.8.2. Test Setup



7.8.3. Test Result

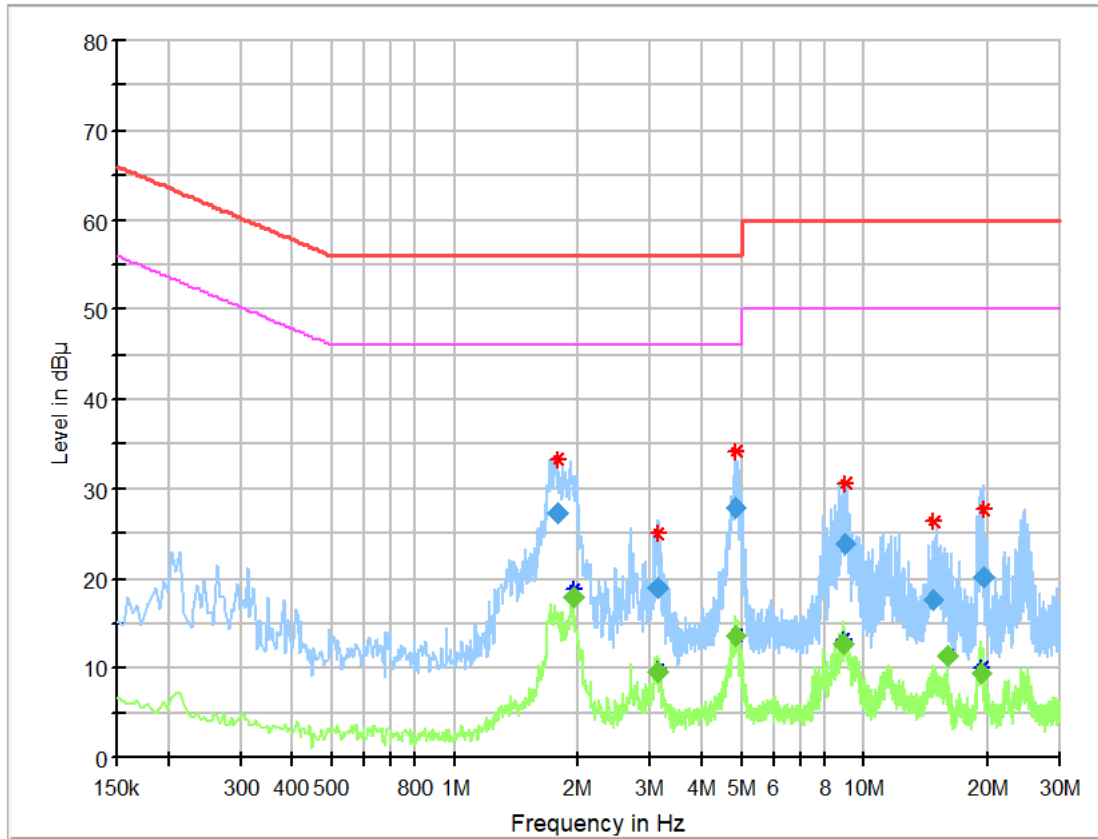
EUT:	DQube	Polarity:	LINE
Model:	DQRID01	Test Date:	2025-11-24
Mode:	Charge Mode	Voltage:	AC120V 60Hz
Environment:	Temp: 23.4°C; Humi:53%	Engineer:	Stone Zhang



Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Line	Filter	Corr. (dB)
3.088500	14.92	---	56.00	41.08	100.0	9.000	L1	ON	9.6
3.120000	---	8.34	46.00	37.66	100.0	9.000	L1	ON	9.6
4.807500	31.12	---	56.00	24.88	100.0	9.000	L1	ON	9.7
4.888500	---	16.48	46.00	29.52	100.0	9.000	L1	ON	9.7
8.871000	---	16.15	50.00	33.85	100.0	9.000	L1	ON	9.7
8.871000	29.51	---	60.00	30.49	100.0	9.000	L1	ON	9.7
10.153500	21.06	---	60.00	38.94	100.0	9.000	L1	ON	9.8
10.378500	---	7.82	50.00	42.18	100.0	9.000	L1	ON	9.8
15.517500	---	11.16	50.00	38.84	100.0	9.000	L1	ON	9.7
15.607500	20.55	---	60.00	39.45	100.0	9.000	L1	ON	9.7
18.505500	11.75	---	60.00	48.25	100.0	9.000	L1	ON	9.7

20.229000	---	5.13	50.00	44.87	100.0	9.000	L1	ON	9.7
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EUT:	DQube	Polarity:	NEUTRAL
Model:	DQRID01	Test Date:	2025-11-24
Mode:	Charge Mode	Voltage:	AC120V 60Hz
Environment:	Temp: 23.4°C; Humi:53%	Engineer:	Stone Zhang



Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Line	Filter	Corr. (dB)
1.774500	27.37	---	56.00	28.63	100.0	9.000	N	ON	9.6
1.941000	---	17.92	46.00	28.08	100.0	9.000	N	ON	9.6
3.120000	---	9.61	46.00	36.40	100.0	9.000	N	ON	9.6
3.142500	19.07	---	56.00	36.93	100.0	9.000	N	ON	9.6
4.830000	---	13.62	46.00	32.38	100.0	9.000	N	ON	9.7
4.848000	27.89	---	56.00	28.11	100.0	9.000	N	ON	9.7
8.938500	---	12.66	50.00	37.34	100.0	9.000	N	ON	9.7
9.051000	23.93	---	60.00	36.07	100.0	9.000	N	ON	9.7
14.847000	17.57	---	60.00	42.43	100.0	9.000	N	ON	9.8
15.999000	---	11.29	50.00	38.71	100.0	9.000	N	ON	9.8
19.356000	---	9.28	50.00	40.72	100.0	9.000	N	ON	9.8
19.464000	20.10	---	60.00	39.90	100.0	9.000	N	ON	9.8

8. Conclusion

The data collected relate only the item(s) tested and show that the **DQube (Model: DQRID01)** is 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.
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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. This report is issued by the following laboratory premises:

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

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