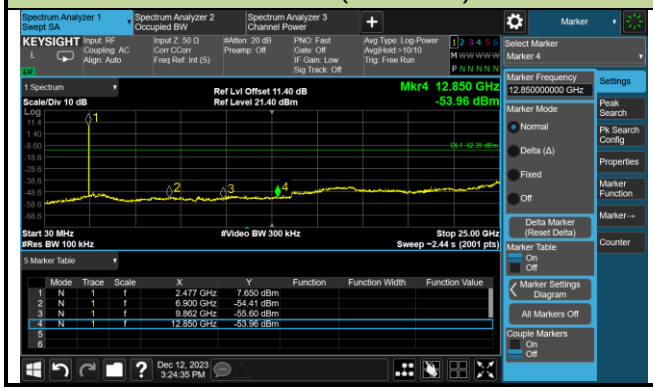
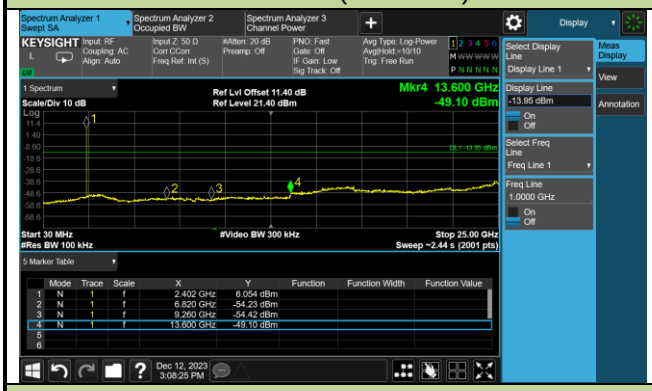
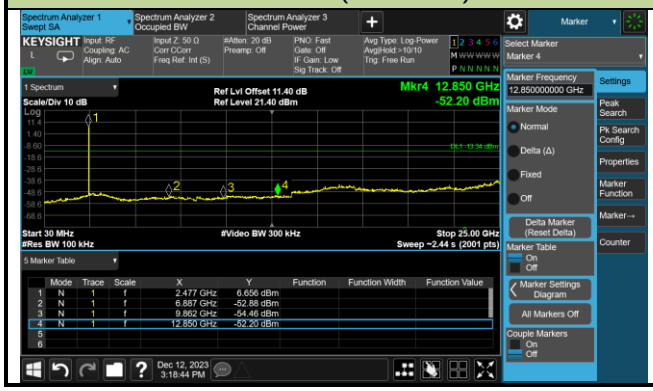
DH5 Conducted Spurious Emissions

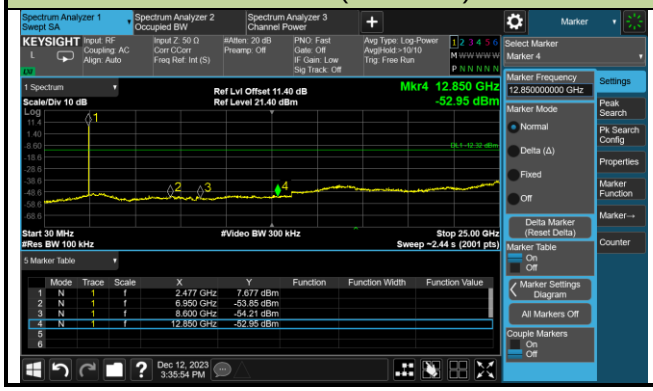
Channel 00 (2402MHz)

Channel 39 (2441MHz)

Channel 78 (2480MHz)



2DH5 Conducted Spurious Emissions	
Channel 00 (2402MHz)	Channel 39 (2441MHz)
	
Channel 78 (2480MHz)	
	

3DH5 Conducted Spurious Emissions	
Channel 00 (2402MHz)	Channel 39 (2441MHz)
Channel 78 (2480MHz)	
	

A.9 Radiated Spurious Emission Test Result

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-12-16 ~ 2023-12-27	Test Mode:	DH5
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
00	4808.0	54.9	-7.8	47.1	74.0	-26.9	Peak	Horizontal
	7426.0	49.1	-4.8	44.3	74.0	-29.7	Peak	Horizontal
	11089.5	48.5	-1.7	46.8	74.0	-27.2	Peak	Horizontal
	4808.0	51.4	-7.8	43.6	74.0	-30.4	Peak	Vertical
	8191.0	48.8	-3.4	45.4	74.0	-28.6	Peak	Vertical
	11531.5	48.2	-1.5	46.7	74.0	-27.3	Peak	Vertical
39	4884.5	55.6	-7.6	48.0	74.0	-26.0	Peak	Horizontal
	8208.0	48.0	-3.1	44.9	74.0	-29.1	Peak	Horizontal
	11897.0	48.9	-1.7	47.2	74.0	-26.8	Peak	Horizontal
	4884.5	50.6	-7.6	43.0	74.0	-31.0	Peak	Vertical
	7638.5	49.2	-4.3	44.9	74.0	-29.1	Peak	Vertical
	11795.0	49.0	-2.0	47.0	74.0	-27.0	Peak	Vertical
78	4961.0	54.0	-7.6	46.4	74.0	-27.6	Peak	Horizontal
	8148.5	48.0	-3.4	44.6	74.0	-29.4	Peak	Horizontal
	11608.0	48.5	-1.6	46.9	74.0	-27.1	Peak	Horizontal
	7613.0	48.5	-4.3	44.2	74.0	-29.8	Peak	Vertical
	8310.0	48.2	-3.1	45.1	74.0	-28.9	Peak	Vertical
	10945.0	47.7	-1.3	46.4	74.0	-27.6	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor ((dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-12-16 ~ 2023-12-27	Test Mode:	2DH5
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
00	4808.0	50.4	-7.8	42.6	74.0	-31.4	Peak	Horizontal
	7613.0	49.7	-4.3	45.4	74.0	-28.6	Peak	Horizontal
	11234.0	47.6	-1.5	46.1	74.0	-27.9	Peak	Horizontal
	4638.0	50.6	-7.9	42.7	74.0	-31.3	Peak	Vertical
	8259.0	48.4	-3.3	45.1	74.0	-28.9	Peak	Vertical
	11489.0	47.7	-1.6	46.1	74.0	-27.9	Peak	Vertical
39	4884.5	53.6	-7.6	46.0	74.0	-28.0	Peak	Horizontal
	8157.0	49.0	-3.4	45.6	74.0	-28.4	Peak	Horizontal
	11888.5	48.4	-1.8	46.6	74.0	-27.4	Peak	Horizontal
	5003.5	49.8	-7.5	42.3	74.0	-31.7	Peak	Vertical
	7604.5	49.3	-4.4	44.9	74.0	-29.1	Peak	Vertical
	11999.0	49.4	-1.8	47.6	74.0	-26.4	Peak	Vertical
78	4961.0	53.4	-7.6	45.8	74.0	-28.2	Peak	Horizontal
	8165.5	49.3	-3.5	45.8	74.0	-28.2	Peak	Horizontal
	11327.5	47.9	-1.5	46.4	74.0	-27.6	Peak	Horizontal
	7715.0	49.1	-4.1	45.0	74.0	-29.0	Peak	Vertical
	8327.0	49.0	-3.4	45.6	74.0	-28.4	Peak	Vertical
	11727.0	48.3	-1.7	46.6	74.0	-27.4	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor ((dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC3	Test Engineer	Fusco Pan
Test Date	2023-12-16 ~ 2023-12-27	Test Mode:	3DH5
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

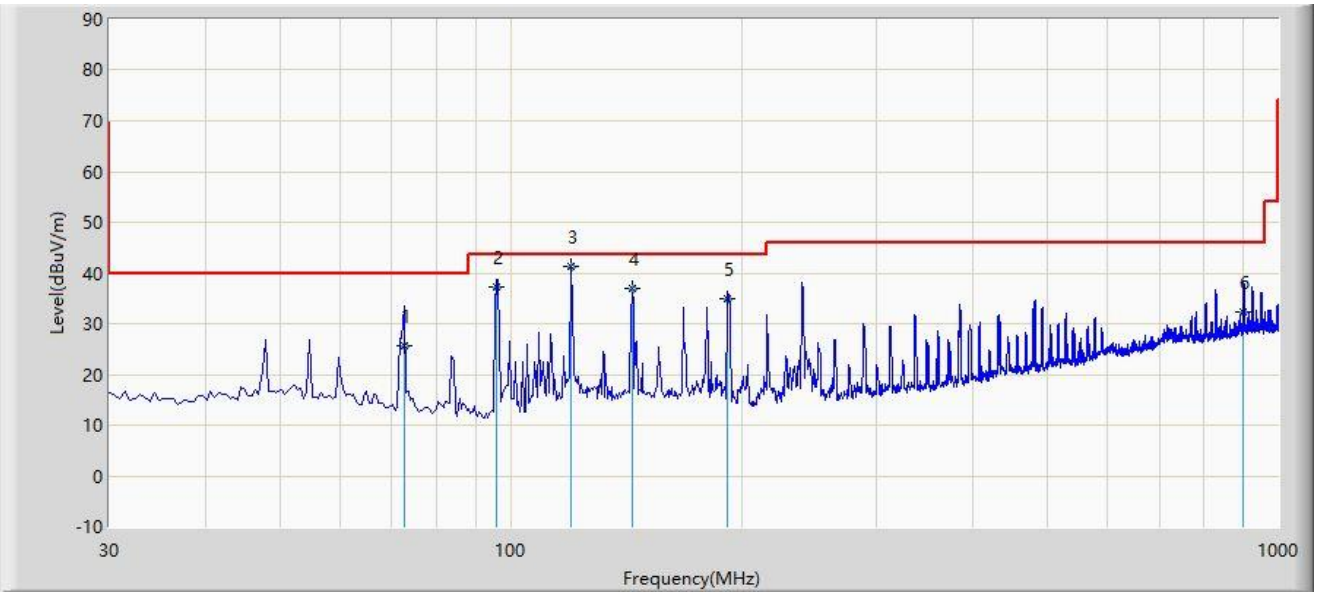
Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
00	4808.0	55.6	-7.8	47.8	74.0	-26.2	Peak	Horizontal
	8165.5	50.0	-3.5	46.5	74.0	-27.5	Peak	Horizontal
	11149.0	48.0	-1.4	46.6	74.0	-27.4	Peak	Horizontal
	4978.0	50.1	-7.5	42.6	74.0	-31.4	Peak	Vertical
	8242.0	48.6	-3.2	45.4	74.0	-28.6	Peak	Vertical
	11608.0	48.0	-1.6	46.4	74.0	-27.6	Peak	Vertical
39	4884.5	54.3	-7.6	46.7	74.0	-27.3	Peak	Horizontal
	8361.0	48.2	-3.4	44.8	74.0	-29.2	Peak	Horizontal
	11030.0	47.5	-1.4	46.1	74.0	-27.9	Peak	Horizontal
	4842.0	50.3	-7.5	42.8	74.0	-31.2	Peak	Vertical
	7443.0	49.6	-4.8	44.8	74.0	-29.2	Peak	Vertical
	11480.5	49.0	-1.6	47.4	74.0	-26.6	Peak	Vertical
78	4961.0	54.0	-7.6	46.4	74.0	-27.6	Peak	Horizontal
	8335.5	48.3	-3.4	44.9	74.0	-29.1	Peak	Horizontal
	11480.5	47.5	-1.6	45.9	74.0	-28.1	Peak	Horizontal
	7528.0	48.5	-4.6	43.9	74.0	-30.1	Peak	Vertical
	8446.0	48.3	-3.2	45.1	74.0	-28.9	Peak	Vertical
	12007.5	49.0	-1.8	47.2	74.0	-26.8	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor ((dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

The Result of Radiated Emission below 1GHz:

Site: SIP-AC1	Test Date: 2023-12-26
Limit: FCC_Part15.209_RSE(3m)	Engineer: Justin Guo
Probe: VULB 9168_00998_25-2000MHz	Polarity: Horizontal
EUT: BT Module	Power: By DC 5V
Test Mode: Transmit by DH5 at 2402MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		72.680	25.586	10.400	-14.414	40.000	15.186	QP
2		95.960	37.225	24.500	-6.275	43.500	12.726	QP
3	*	119.725	41.197	25.600	-2.303	43.500	15.597	QP
4		143.975	36.849	18.600	-6.651	43.500	18.249	QP
5		191.990	34.955	20.100	-8.545	43.500	14.855	QP
6		900.090	32.186	2.500	-13.814	46.000	29.686	QP

Note 1: " * ", means this data is the worst emission level.

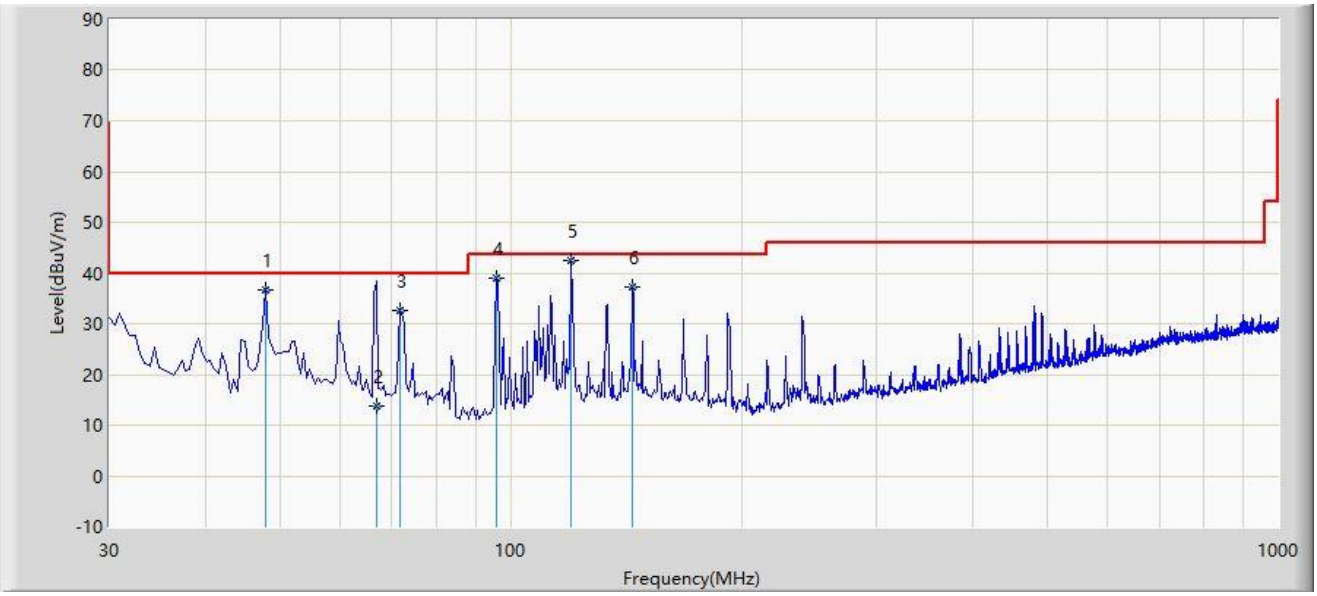
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Note 5: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site: SIP-AC1	Test Date: 2023-12-26
Limit: FCC_Part15.209_RSE(3m)	Engineer: Justin Guo
Probe: VULB 9168_00998_25-2000MHz	Polarity: Vertical
EUT: BT Module	Power: By DC 5V
Test Mode: Transmit by DH5 at 2402MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		47.945	36.545	18.500	-3.455	40.000	18.045	QP
2		66.860	13.786	-2.500	-26.214	40.000	16.286	QP
3		71.710	32.516	17.100	-7.484	40.000	15.416	QP
4		95.960	38.925	26.200	-4.575	43.500	12.726	QP
5	*	119.725	42.497	26.900	-1.003	43.500	15.597	QP
6		143.975	37.249	19.000	-6.251	43.500	18.249	QP

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

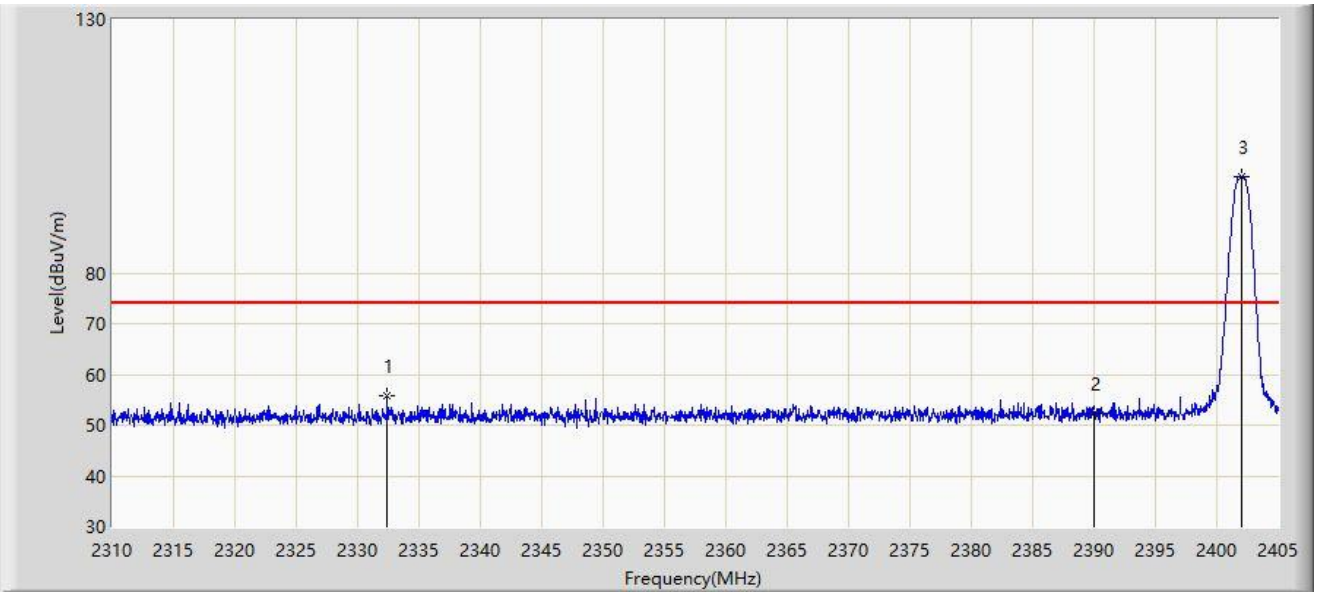
Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Note 5: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

A.10 Radiated Restricted Band Edge Test Result

Site: SIP-AC3	Test Date: 2023-12-16
Limit: FCC_2.4G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Horizontal
EUT: BT Module	Power: By DC 5V
Test Mode: Transmit By DH5 at 2402MHz	



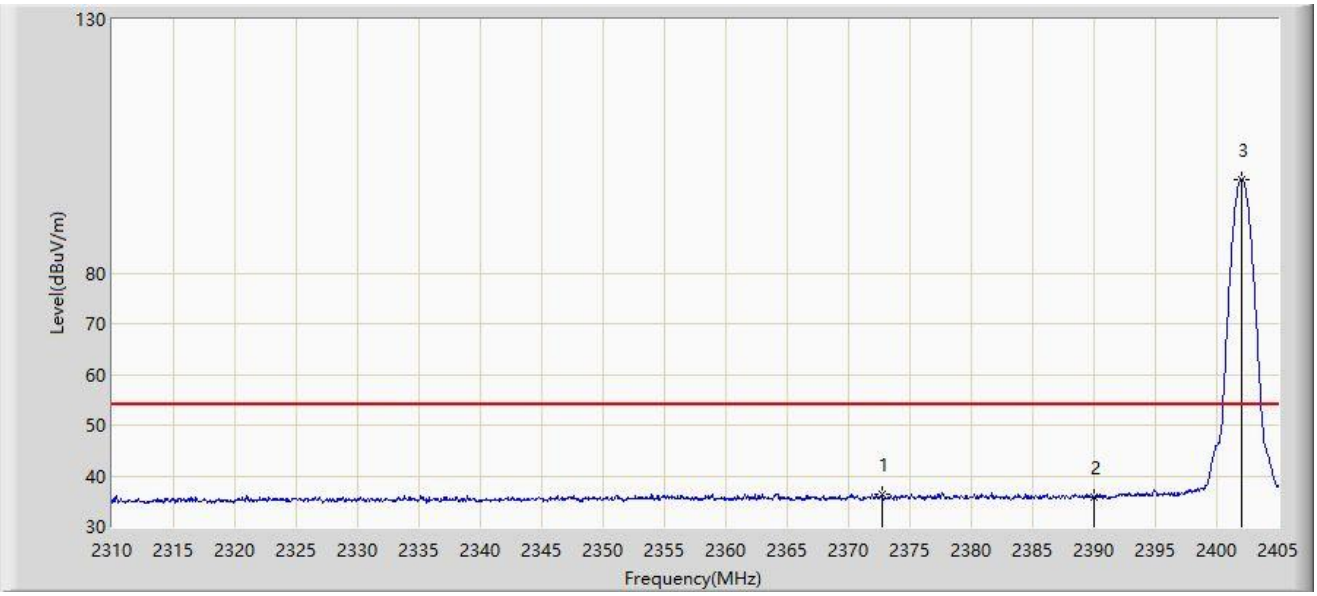
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2332.420	55.906	24.220	-18.094	74.000	31.686	PK
2		2390.000	52.290	20.267	-21.710	74.000	32.023	PK
3		2402.055	99.106	67.068	N/A	N/A	32.037	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Test Date: 2023-12-16
Limit: FCC_2.4G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Horizontal
EUT: BT Module	Power: By DC 5V
Test Mode: Transmit By DH5 at 2402MHz	



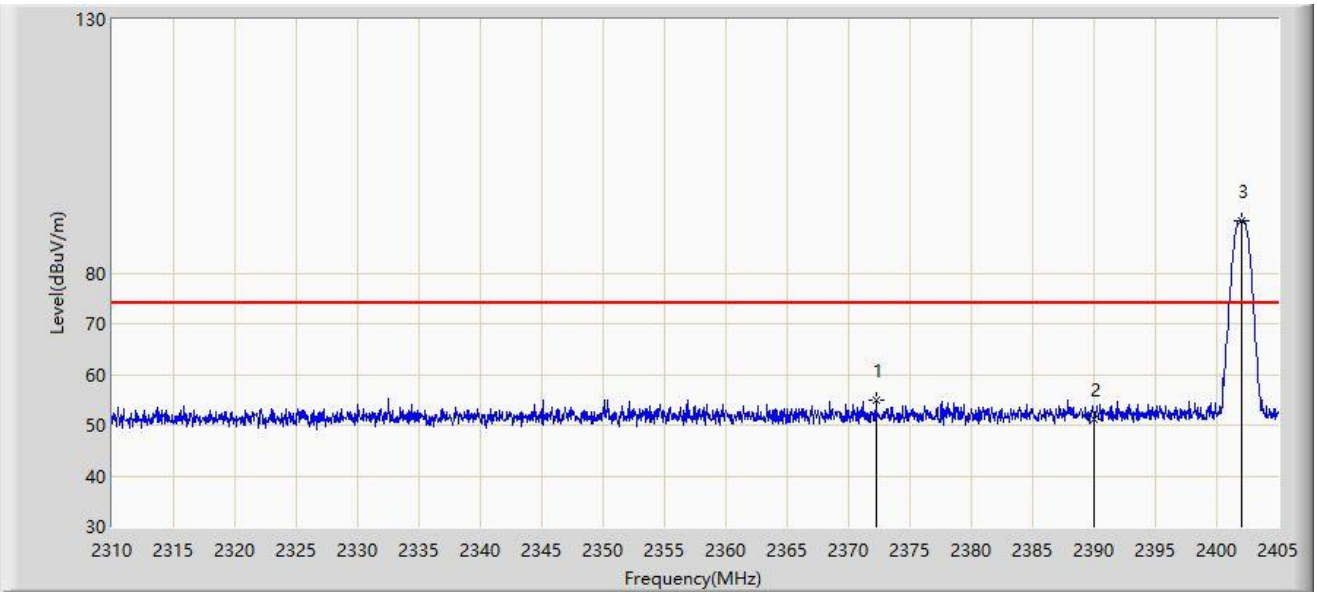
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2372.700	36.495	4.518	-17.505	54.000	31.976	AV
2		2390.000	35.883	3.860	-18.117	54.000	32.023	AV
3		2402.008	98.518	66.480	N/A	N/A	32.037	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Test Date: 2023-12-16
Limit: FCC_2.4G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Vertical
EUT: BT Module	Power: By DC 5V
Test Mode: Transmit By DH5 at 2402MHz	



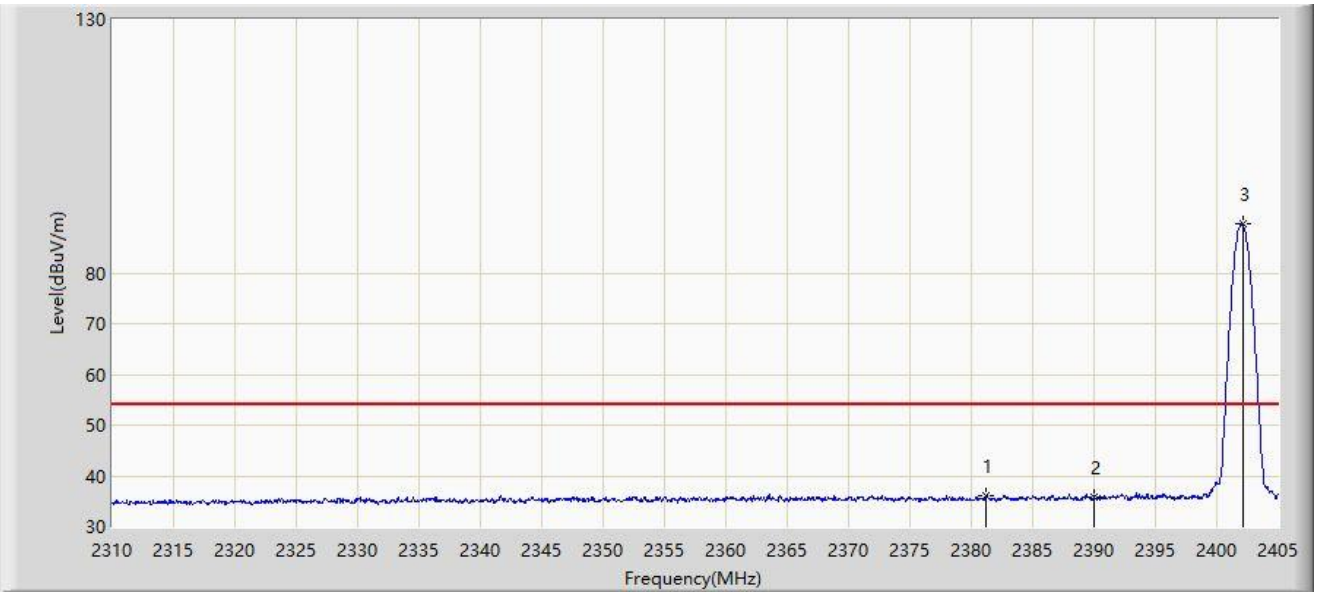
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2372.225	55.066	23.092	-18.934	74.000	31.975	PK
2		2390.000	51.147	19.124	-22.853	74.000	32.023	PK
3		2402.008	90.271	58.233	N/A	N/A	32.037	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Test Date: 2023-12-16
Limit: FCC_2.4G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Vertical
EUT: BT Module	Power: By DC 5V
Test Mode: Transmit By DH5 at 2402MHz	



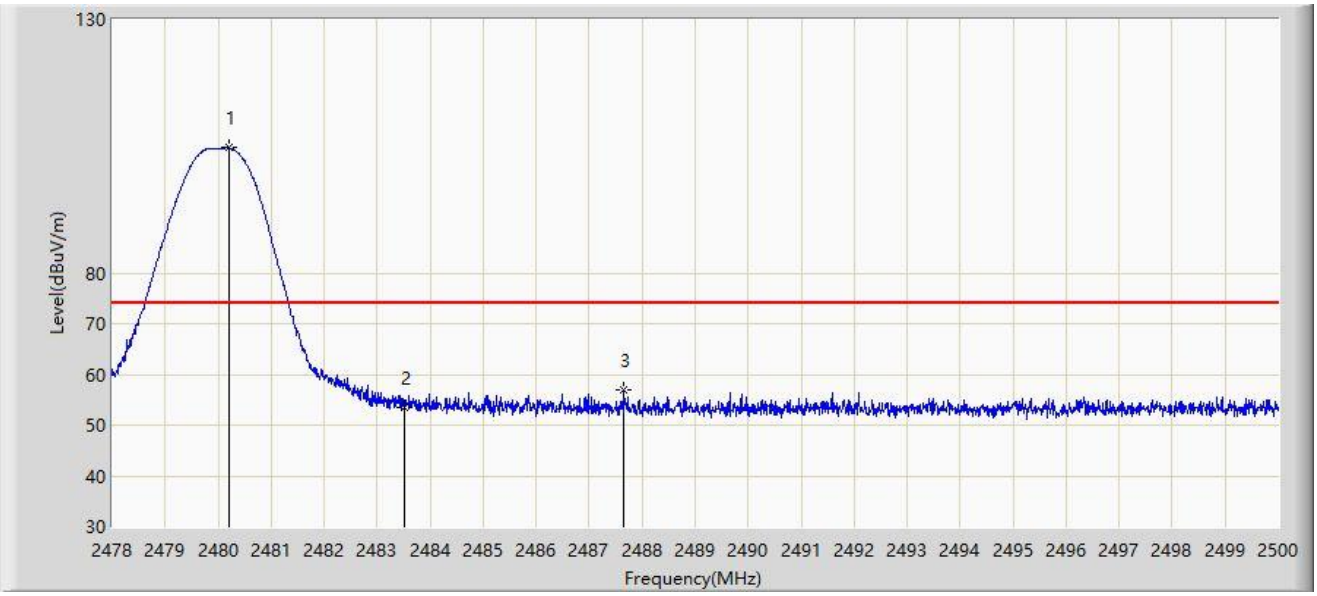
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2381.202	36.106	4.101	-17.894	54.000	32.006	AV
2		2390.000	35.661	3.638	-18.339	54.000	32.023	AV
3		2402.150	89.585	57.547	N/A	N/A	32.038	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Test Date: 2023-12-16
Limit: FCC_2.4G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Horizontal
EUT: BT Module	Power: By DC 5V
Test Mode: Transmit By DH5 at 2480MHz	



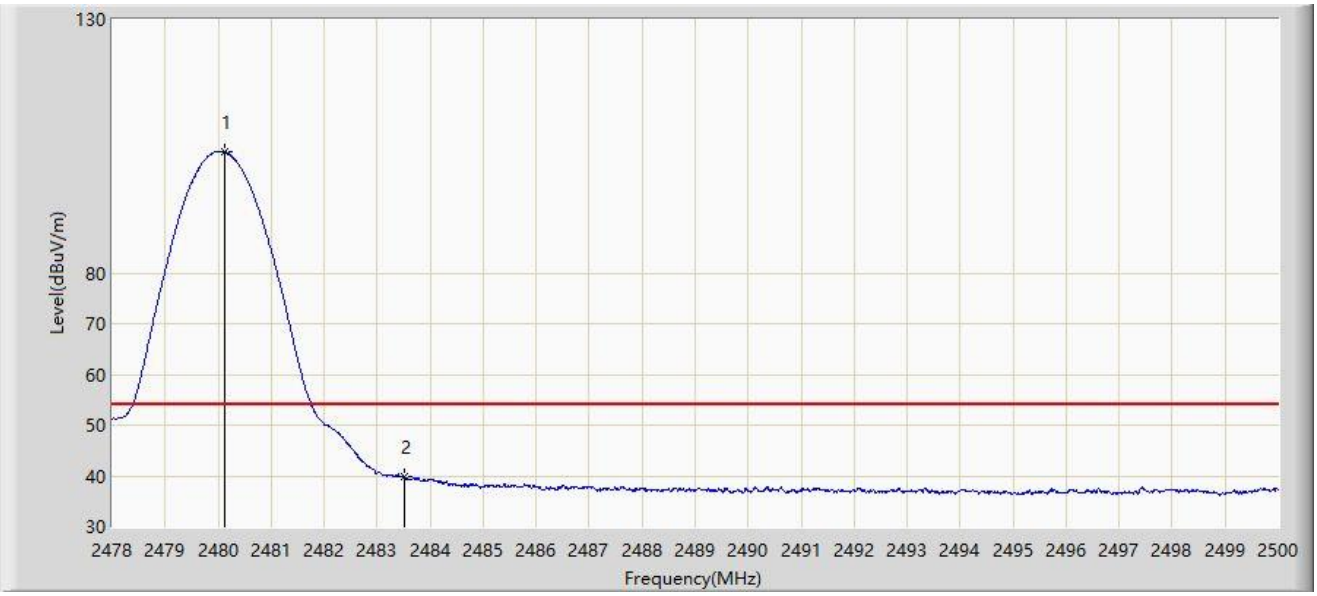
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2480.200	104.693	72.410	N/A	N/A	32.283	PK
2		2483.500	53.594	21.294	-20.406	74.000	32.300	PK
3	*	2487.658	56.842	24.520	-17.158	74.000	32.322	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Test Date: 2023-12-16
Limit: FCC_2.4G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Horizontal
EUT: BT Module	Power: By DC 5V
Test Mode: Transmit By DH5 at 2480MHz	



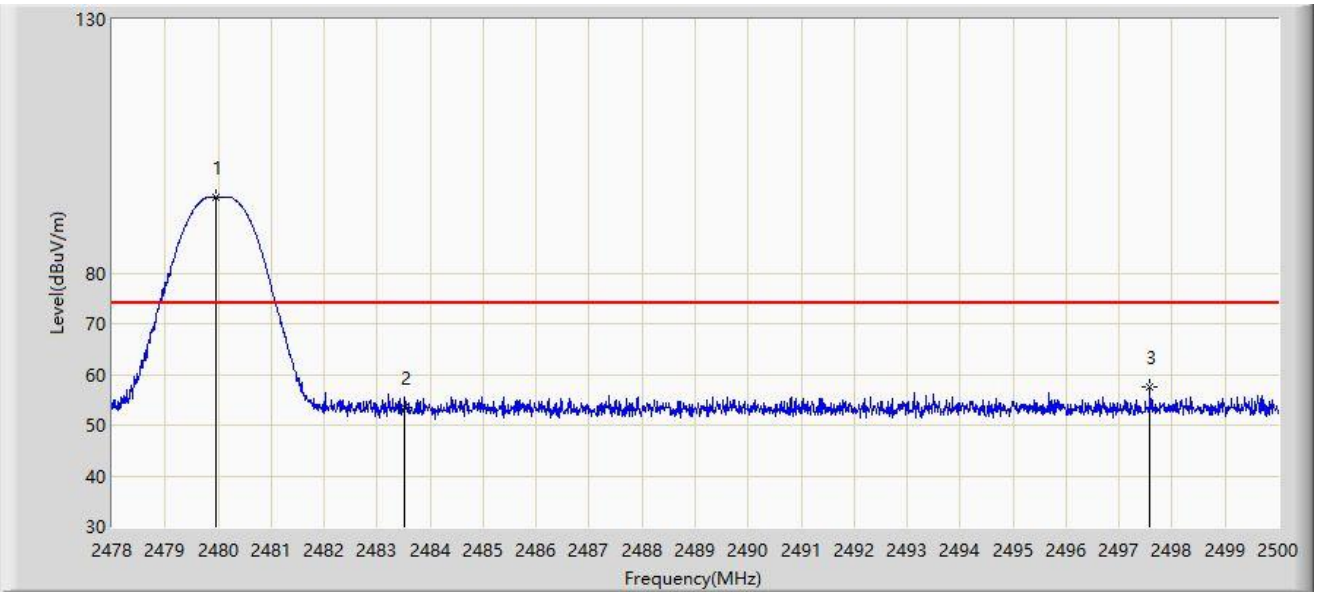
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2480.112	103.912	71.629	N/A	N/A	32.283	AV
2	*	2483.500	39.945	7.645	-14.055	54.000	32.300	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Test Date: 2023-12-16
Limit: FCC_2.4G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Vertical
EUT: BT Module	Power: By DC 5V
Test Mode: Transmit By DH5 at 2480MHz	



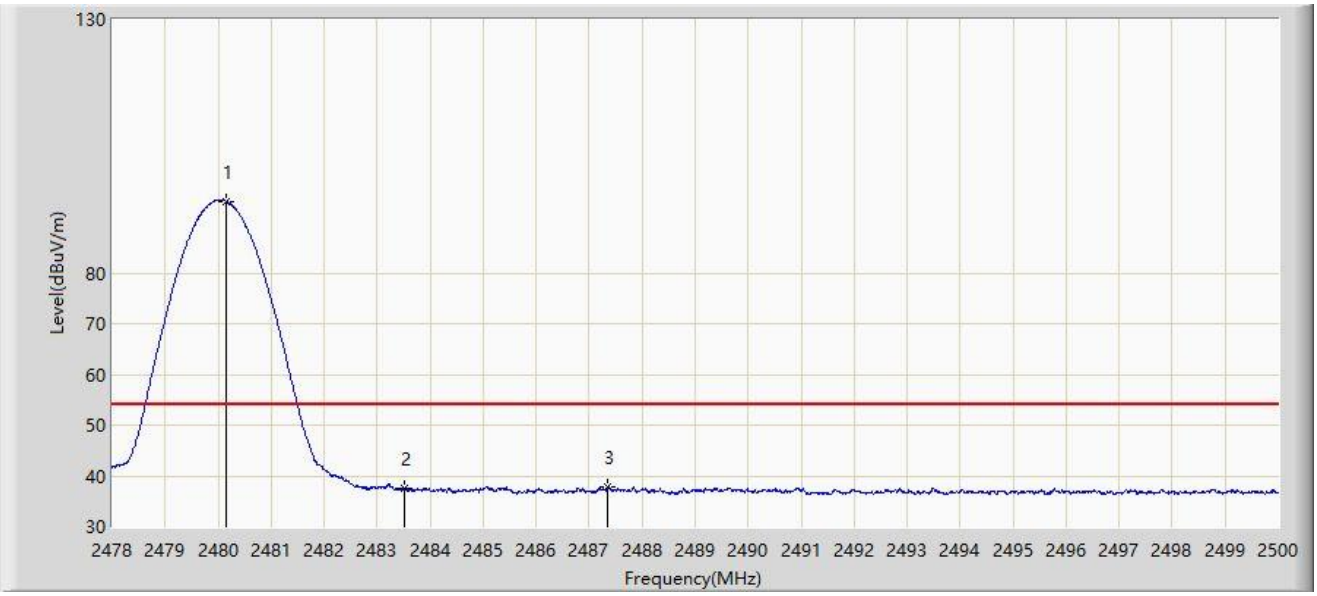
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2479.969	94.984	62.702	N/A	N/A	32.282	PK
2		2483.500	53.464	21.164	-20.536	74.000	32.300	PK
3	*	2497.580	57.649	25.272	-16.351	74.000	32.376	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Test Date: 2023-12-16
Limit: FCC_2.4G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Vertical
EUT: BT Module	Power: By DC 5V
Test Mode: Transmit By DH5 at 2480MHz	



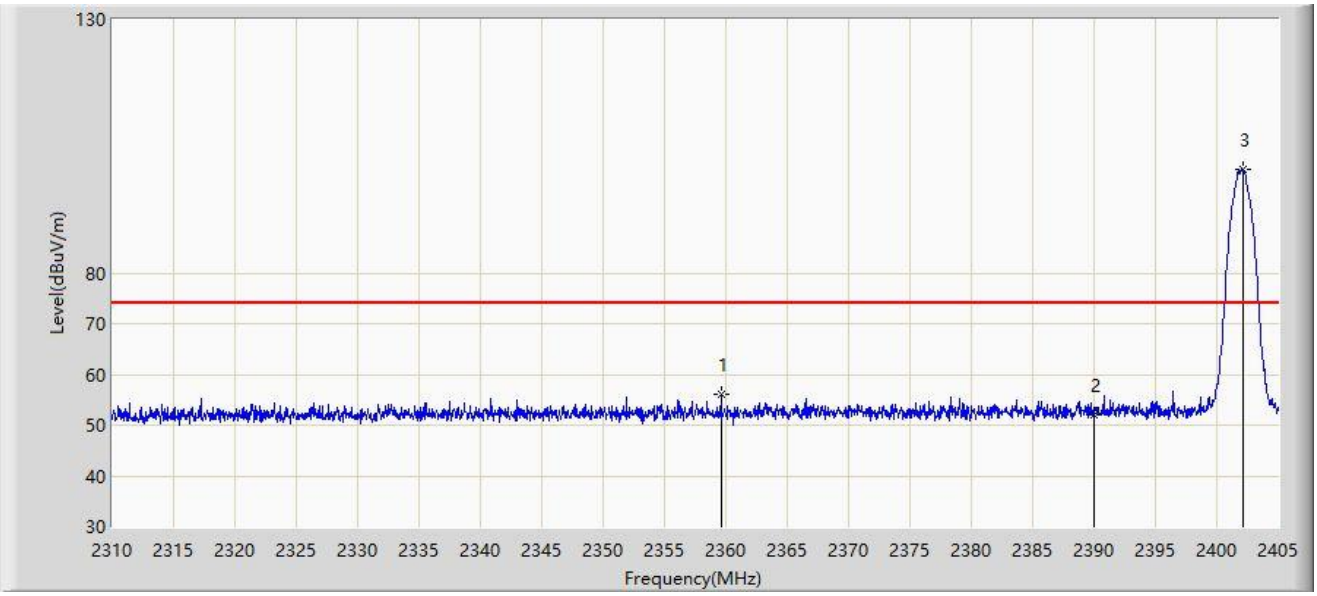
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2480.145	94.177	61.894	N/A	N/A	32.283	AV
2		2483.500	37.583	5.283	-16.417	54.000	32.300	AV
3	*	2487.350	37.713	5.393	-16.287	54.000	32.320	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Test Date: 2023-12-16
Limit: FCC_2.4G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Horizontal
EUT: BT Module	Power: By DC 5V
Test Mode: Transmit By 2DH5 at 2402MHz	



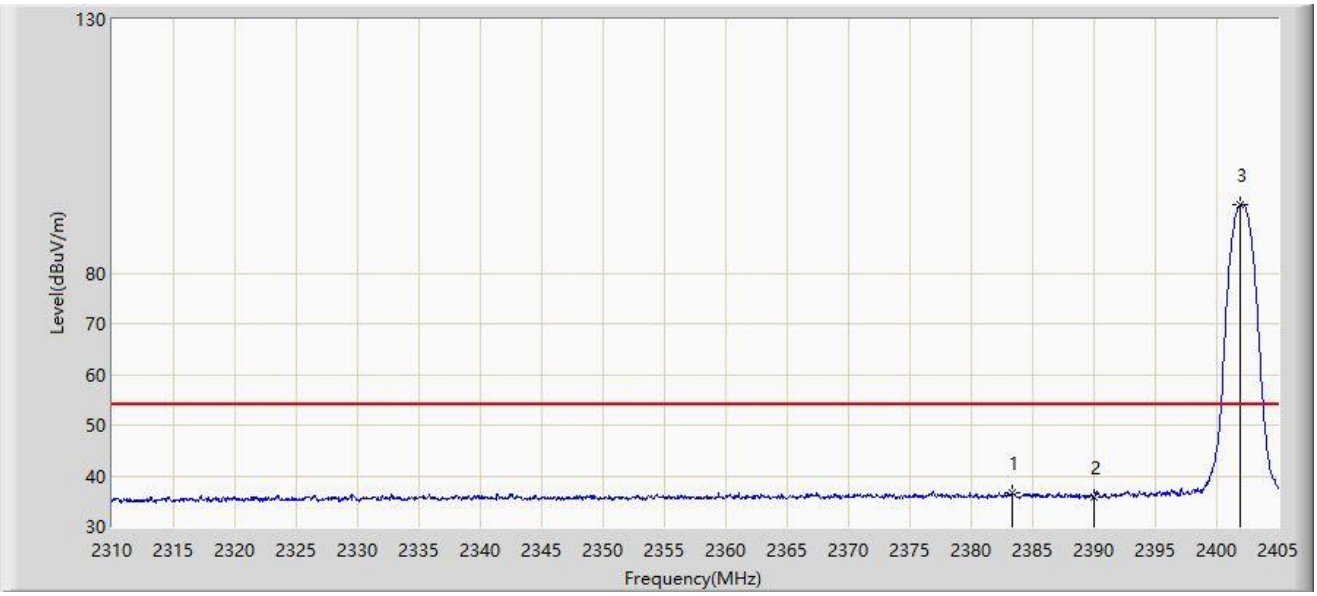
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2359.590	55.952	24.040	-18.048	74.000	31.912	PK
2		2390.000	51.919	19.896	-22.081	74.000	32.023	PK
3		2402.150	100.365	68.327	N/A	N/A	32.038	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Test Date: 2023-12-16
Limit: FCC_2.4G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Horizontal
EUT: BT Module	Power: By DC 5V
Test Mode: Transmit By 2DH5 at 2402MHz	



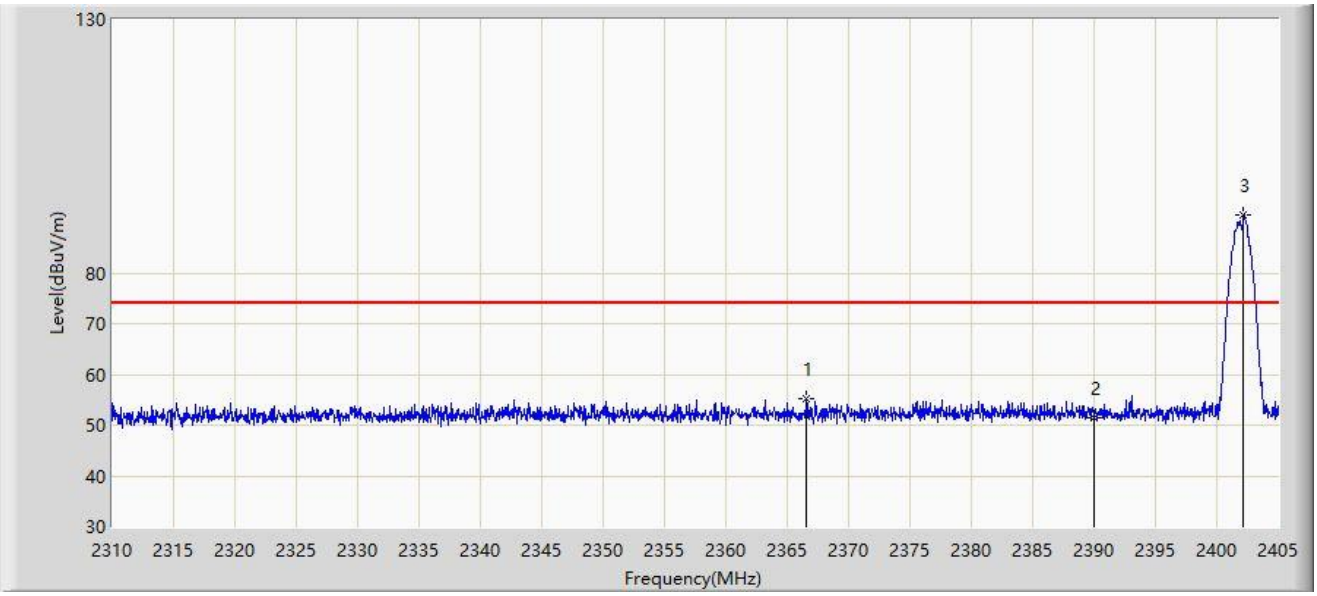
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2383.340	36.738	4.728	-17.262	54.000	32.010	AV
2		2390.000	35.778	3.755	-18.222	54.000	32.023	AV
3		2401.960	93.595	61.557	N/A	N/A	32.038	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Test Date: 2023-12-16
Limit: FCC_2.4G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Vertical
EUT: BT Module	Power: By DC 5V
Test Mode: Transmit By 2DH5 at 2402MHz	



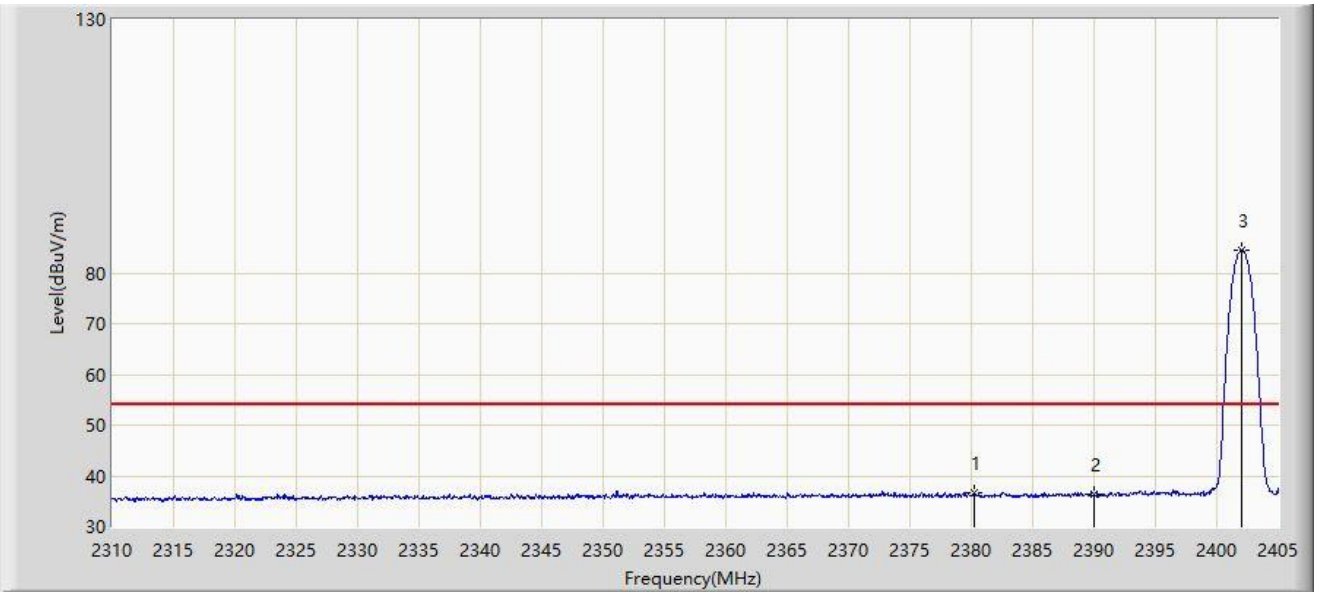
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2366.573	55.087	23.140	-18.913	74.000	31.948	PK
2		2390.000	51.525	19.502	-22.475	74.000	32.023	PK
3		2402.150	91.523	59.485	N/A	N/A	32.038	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Test Date: 2023-12-16
Limit: FCC_2.4G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Vertical
EUT: BT Module	Power: By DC 5V
Test Mode: Transmit By 2DH5 at 2402MHz	



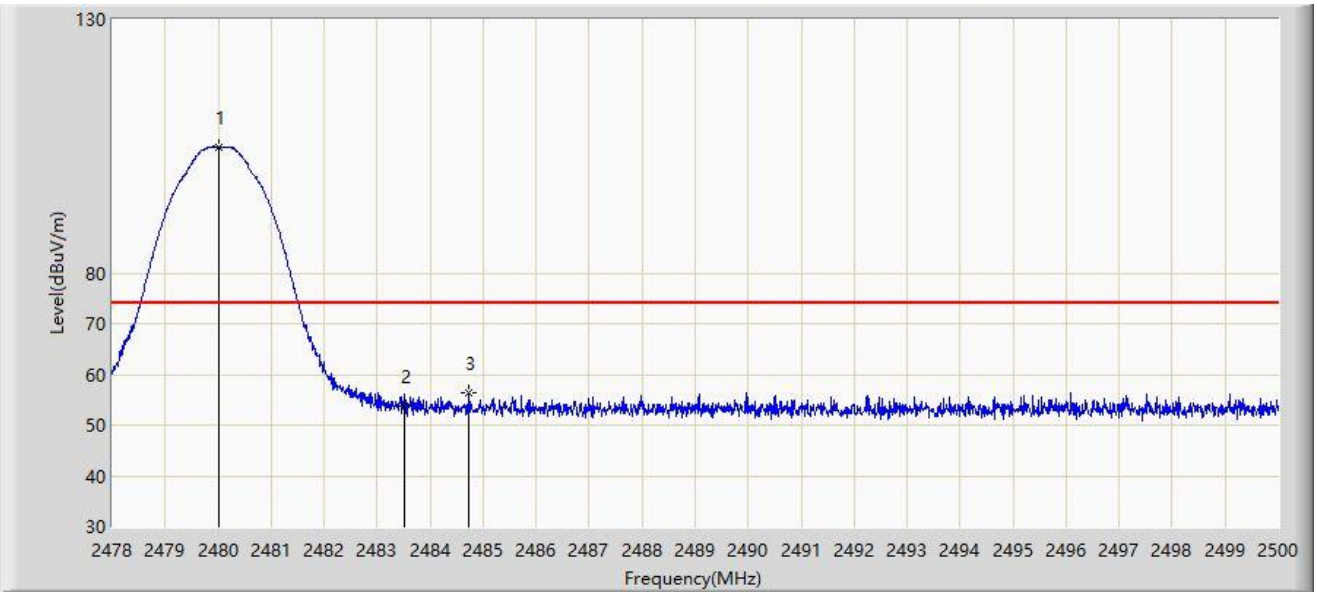
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2380.252	36.729	4.725	-17.271	54.000	32.004	AV
2		2390.000	36.260	4.237	-17.740	54.000	32.023	AV
3		2402.008	84.542	52.504	N/A	N/A	32.037	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Test Date: 2023-12-16
Limit: FCC_2.4G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Horizontal
EUT: BT Module	Power: By DC 5V
Test Mode: Transmit By 2DH5 at 2480MHz	



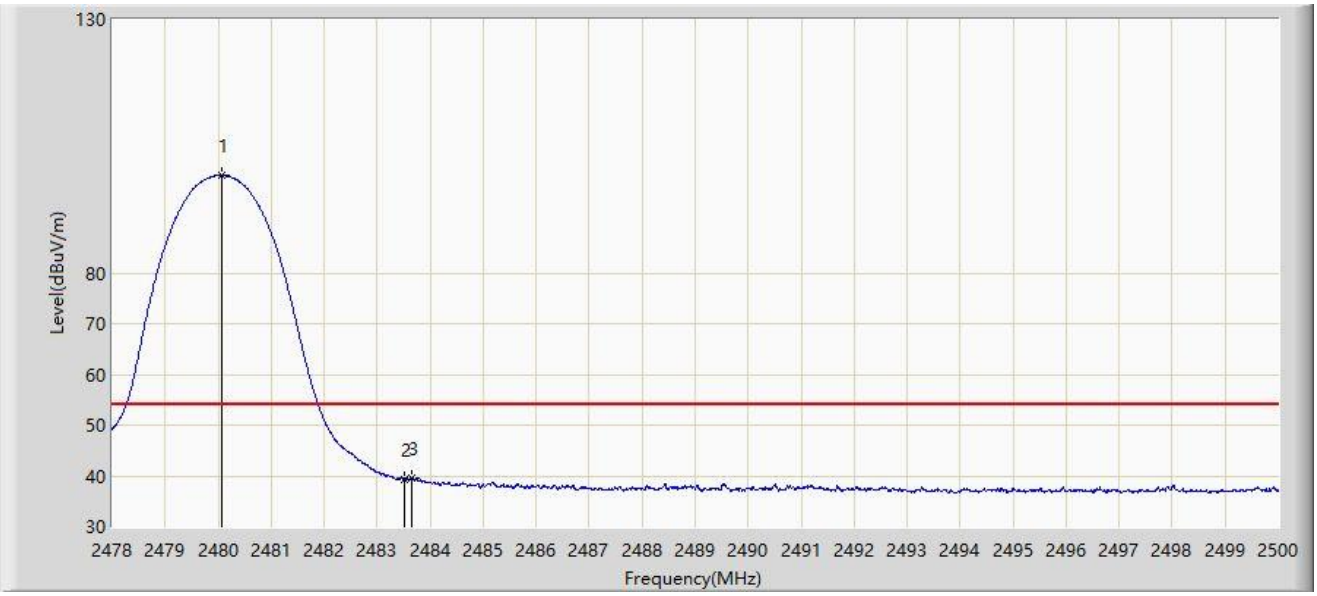
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2480.002	104.859	72.577	N/A	N/A	32.282	PK
2		2483.500	53.683	21.383	-20.317	74.000	32.300	PK
3	*	2484.732	56.315	24.008	-17.685	74.000	32.307	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Test Date: 2023-12-16
Limit: FCC_2.4G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Horizontal
EUT: BT Module	Power: By DC 5V
Test Mode: Transmit By 2DH5 at 2480MHz	



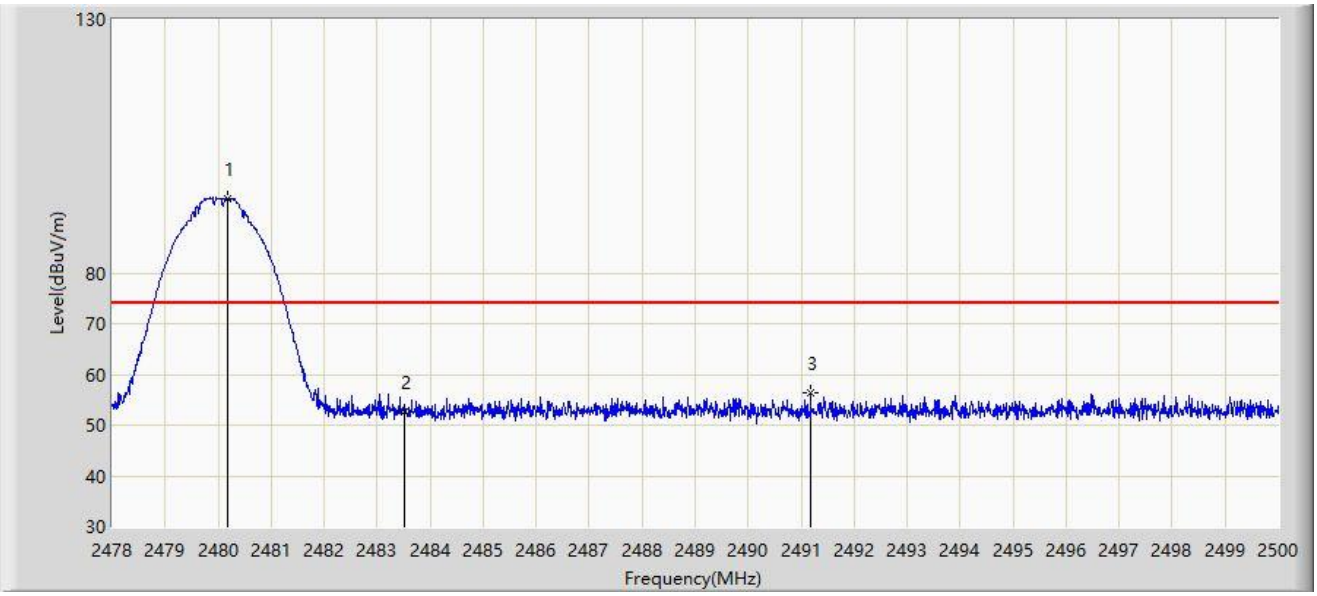
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2480.079	99.230	66.947	N/A	N/A	32.282	AV
2		2483.500	39.236	6.936	-14.764	54.000	32.300	AV
3	*	2483.665	39.650	7.349	-14.350	54.000	32.301	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Test Date: 2023-12-16
Limit: FCC_2.4G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Vertical
EUT: BT Module	Power: By DC 5V
Test Mode: Transmit By 2DH5 at 2480MHz	



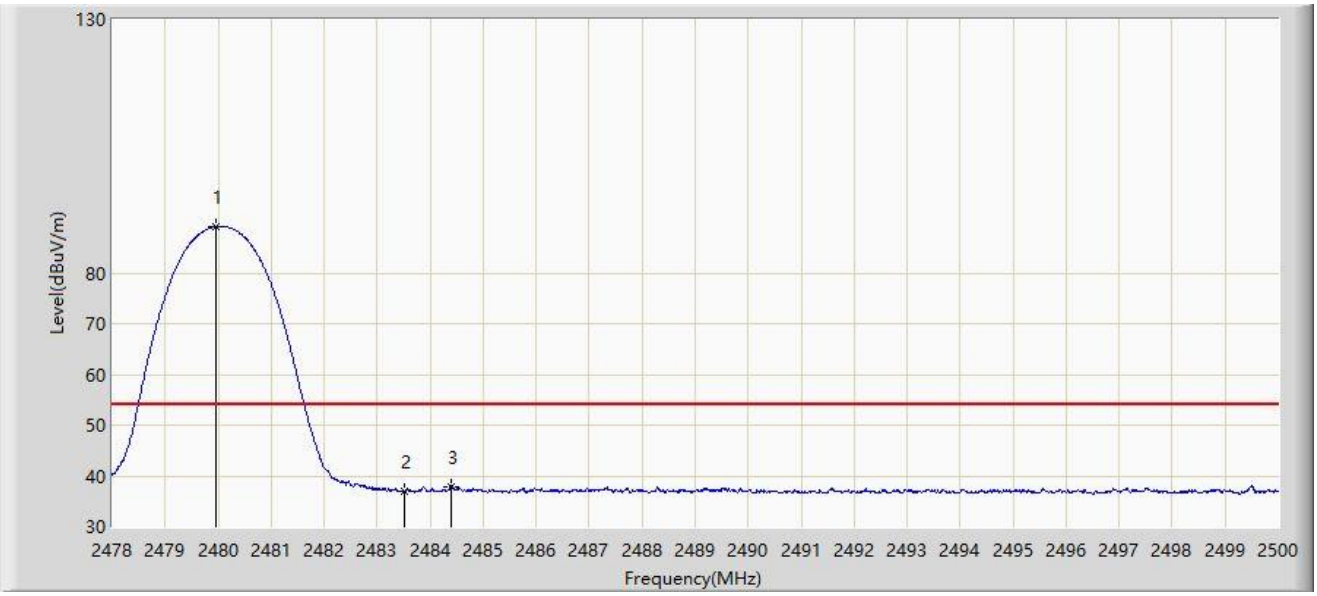
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2480.189	94.771	62.488	N/A	N/A	32.283	PK
2		2483.500	52.657	20.357	-21.343	74.000	32.300	PK
3	*	2491.178	56.256	23.916	-17.744	74.000	32.340	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Test Date: 2023-12-16
Limit: FCC_2.4G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Vertical
EUT: BT Module	Power: By DC 5V
Test Mode: Transmit By 2DH5 at 2480MHz	



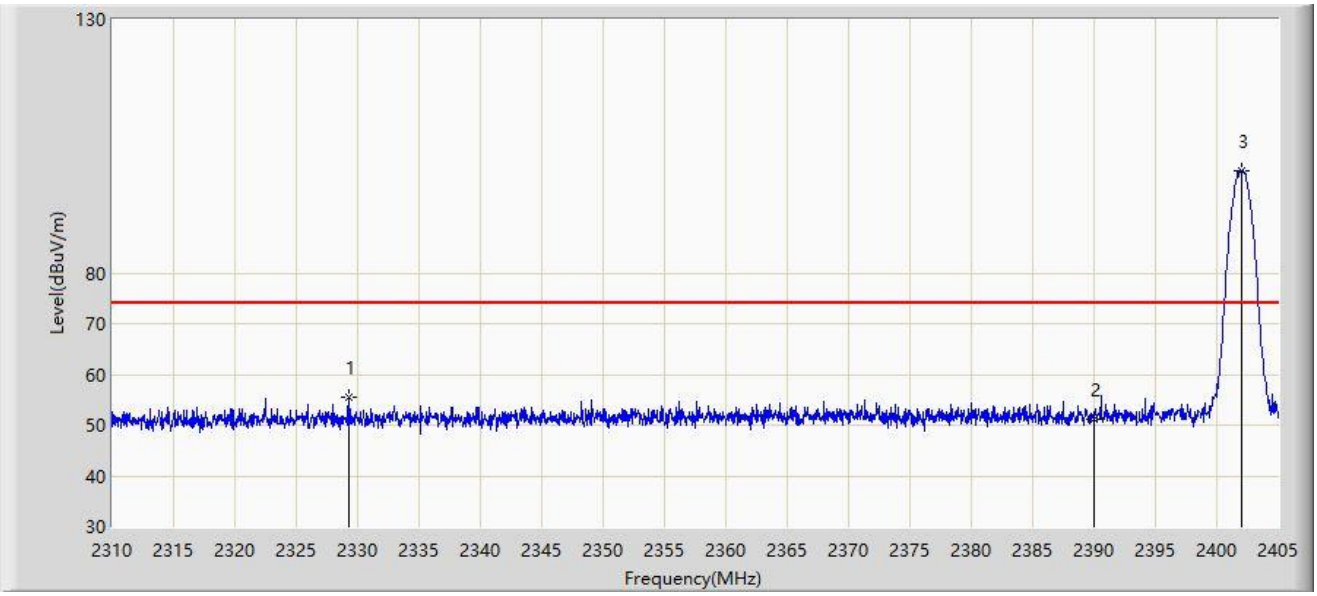
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2479.958	89.181	56.899	N/A	N/A	32.282	AV
2		2483.500	37.040	4.740	-16.960	54.000	32.300	AV
3	*	2484.391	37.938	5.633	-16.062	54.000	32.305	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Test Date: 2023-12-16
Limit: FCC_2.4G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Horizontal
EUT: BT Module	Power: By DC 5V
Test Mode: Transmit By 3DH5 at 2402MHz	



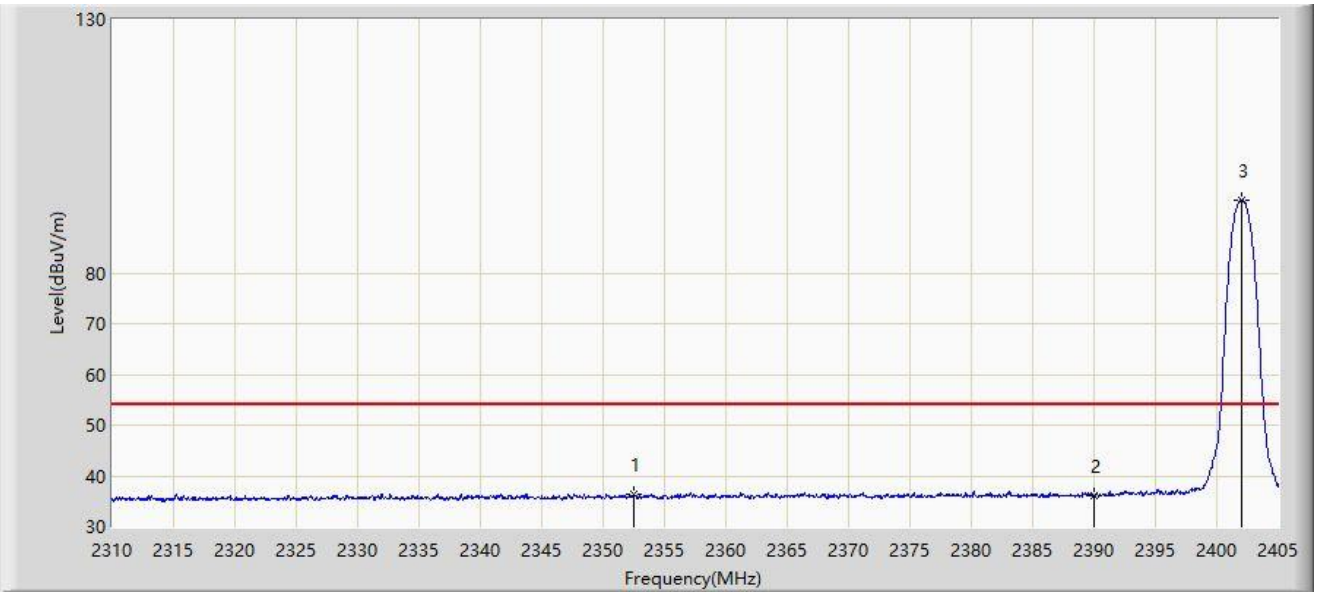
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2329.238	55.475	23.810	-18.525	74.000	31.666	PK
2		2390.000	51.160	19.137	-22.840	74.000	32.023	PK
3		2402.008	100.131	68.093	N/A	N/A	32.037	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Test Date: 2023-12-16
Limit: FCC_2.4G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Horizontal
EUT: BT Module	Power: By DC 5V
Test Mode: Transmit By 3DH5 at 2402MHz	



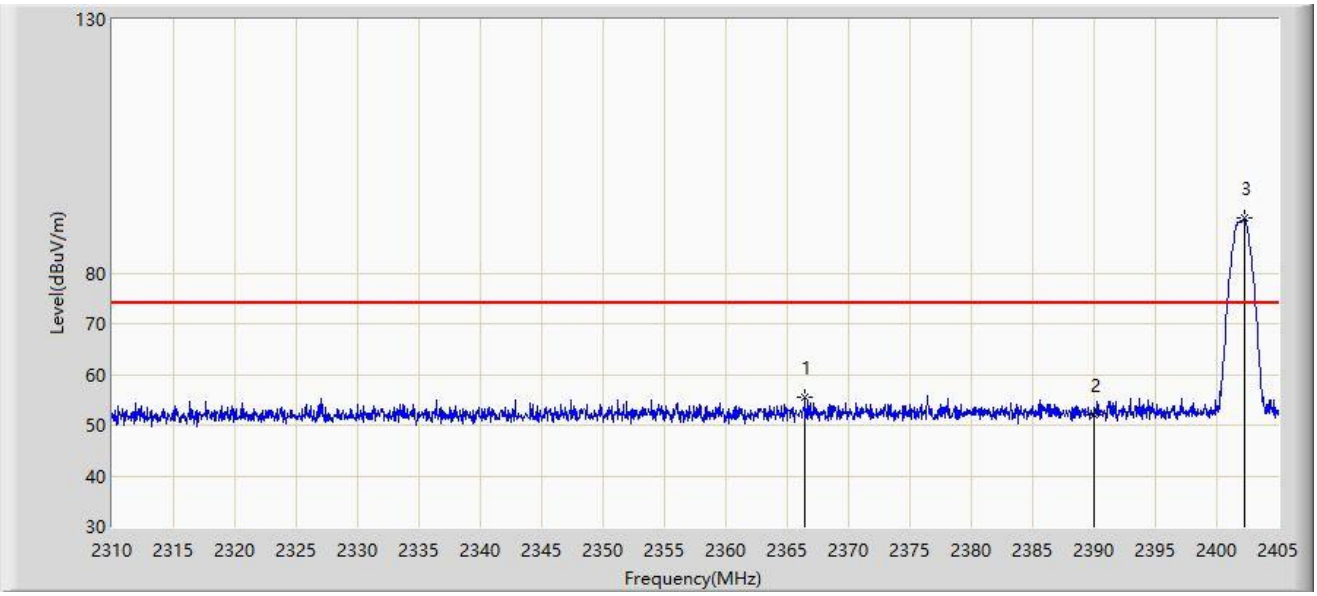
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2352.512	36.420	4.575	-17.580	54.000	31.845	AV
2		2390.000	36.092	4.069	-17.908	54.000	32.023	AV
3		2402.008	94.476	62.438	N/A	N/A	32.037	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Test Date: 2023-12-16
Limit: FCC_2.4G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Vertical
EUT: BT Module	Power: By DC 5V
Test Mode: Transmit By 3DH5 at 2402MHz	



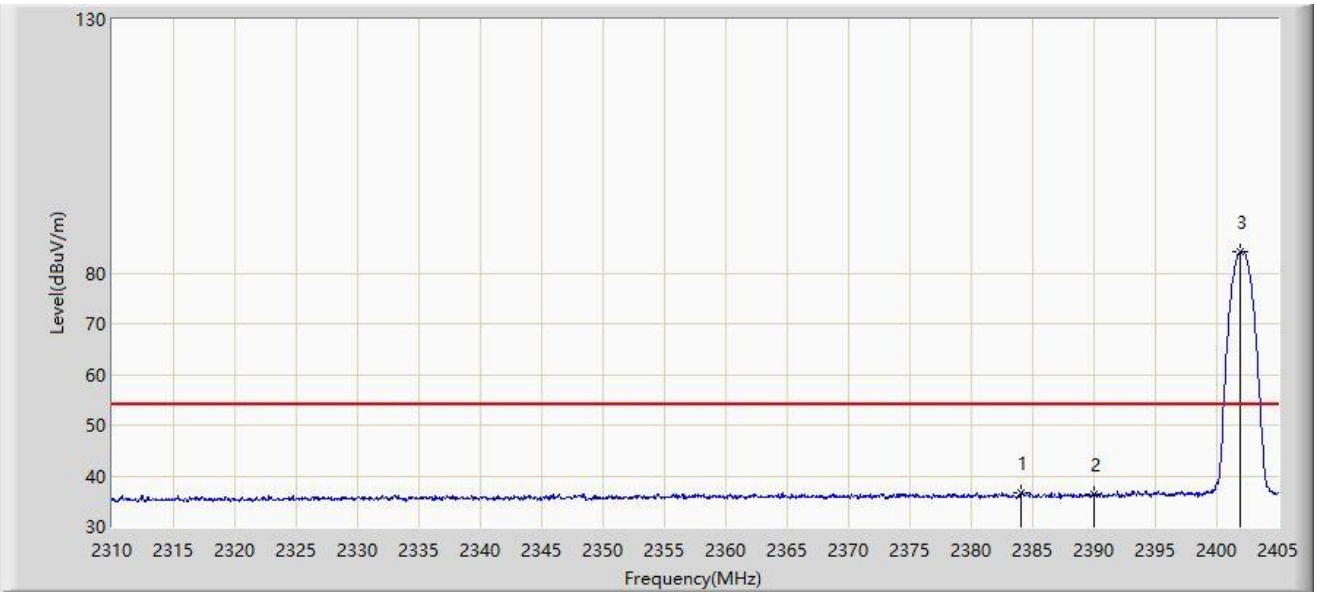
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2366.478	55.427	23.480	-18.573	74.000	31.946	PK
2		2390.000	51.947	19.924	-22.053	74.000	32.023	PK
3		2402.245	90.805	58.767	N/A	N/A	32.038	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Test Date: 2023-12-16
Limit: FCC_2.4G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Vertical
EUT: BT Module	Power: By DC 5V
Test Mode: Transmit By 3DH5 at 2402MHz	



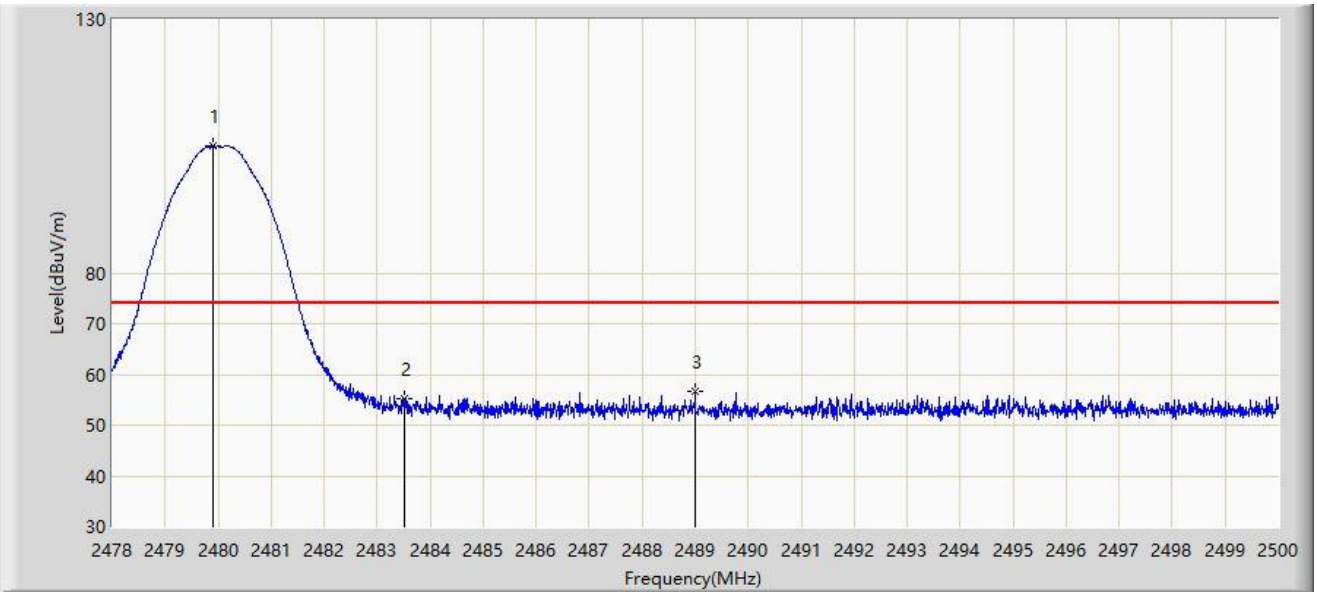
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2384.100	36.786	4.775	-17.214	54.000	32.011	AV
2		2390.000	36.374	4.351	-17.626	54.000	32.023	AV
3		2401.913	84.196	52.158	N/A	N/A	32.038	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Test Date: 2023-12-16
Limit: FCC_2.4G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Horizontal
EUT: BT Module	Power: By DC 5V
Test Mode: Transmit By 3DH5 at 2480MHz	



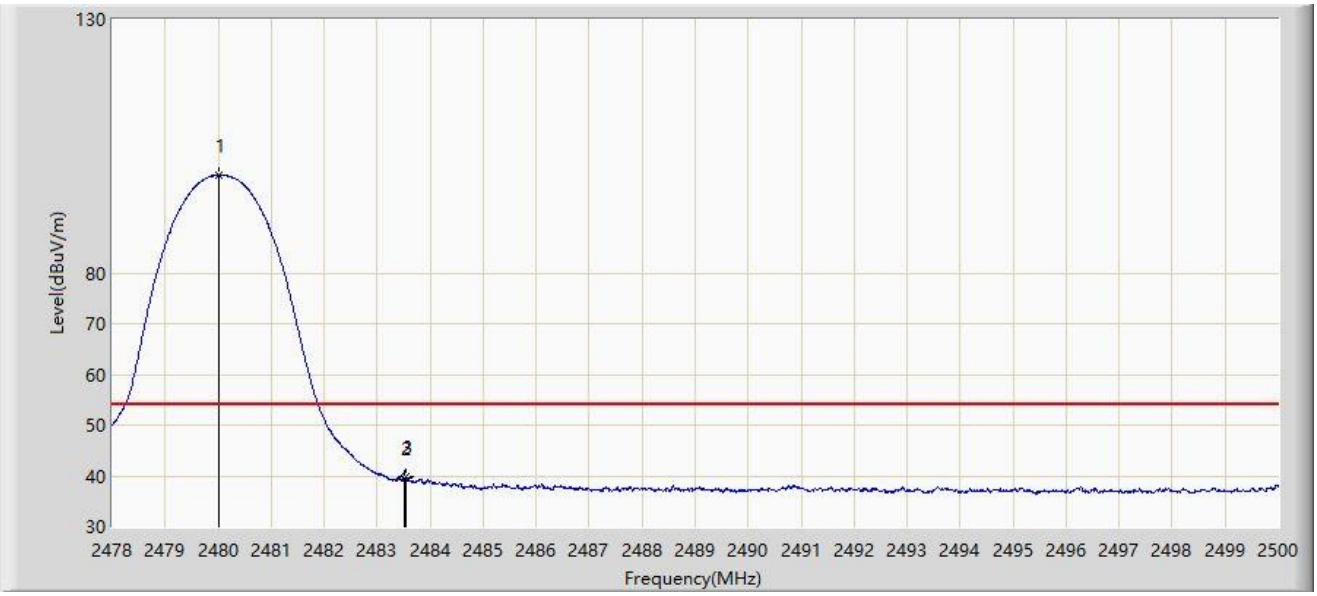
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2479.903	105.101	72.819	N/A	N/A	32.282	PK
2		2483.500	55.299	22.999	-18.701	74.000	32.300	PK
3	*	2489.000	56.567	24.238	-17.433	74.000	32.329	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Test Date: 2023-12-16
Limit: FCC_2.4G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Horizontal
EUT: BT Module	Power: By DC 5V
Test Mode: Transmit By 3DH5 at 2480MHz	



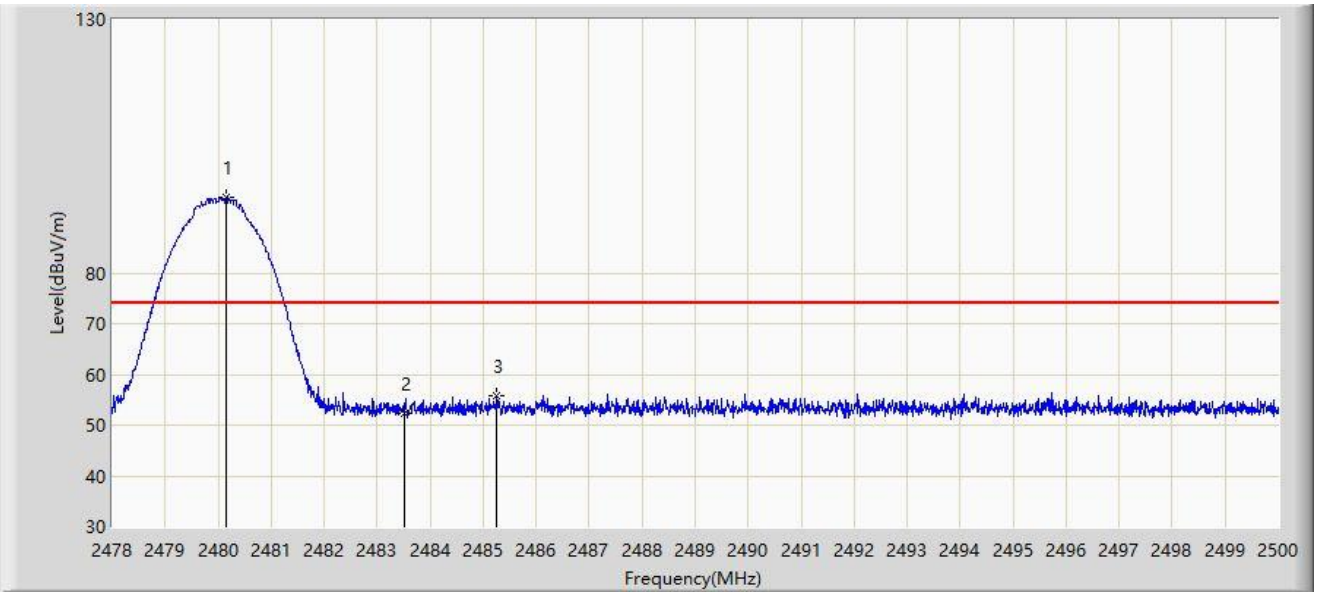
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2480.002	99.289	67.007	N/A	N/A	32.282	AV
2		2483.500	39.509	7.209	-14.491	54.000	32.300	AV
3	*	2483.533	39.848	7.548	-14.152	54.000	32.301	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Test Date: 2023-12-16
Limit: FCC_2.4G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Vertical
EUT: BT Module	Power: By DC 5V
Test Mode: Transmit By 3DH5 at 2480MHz	



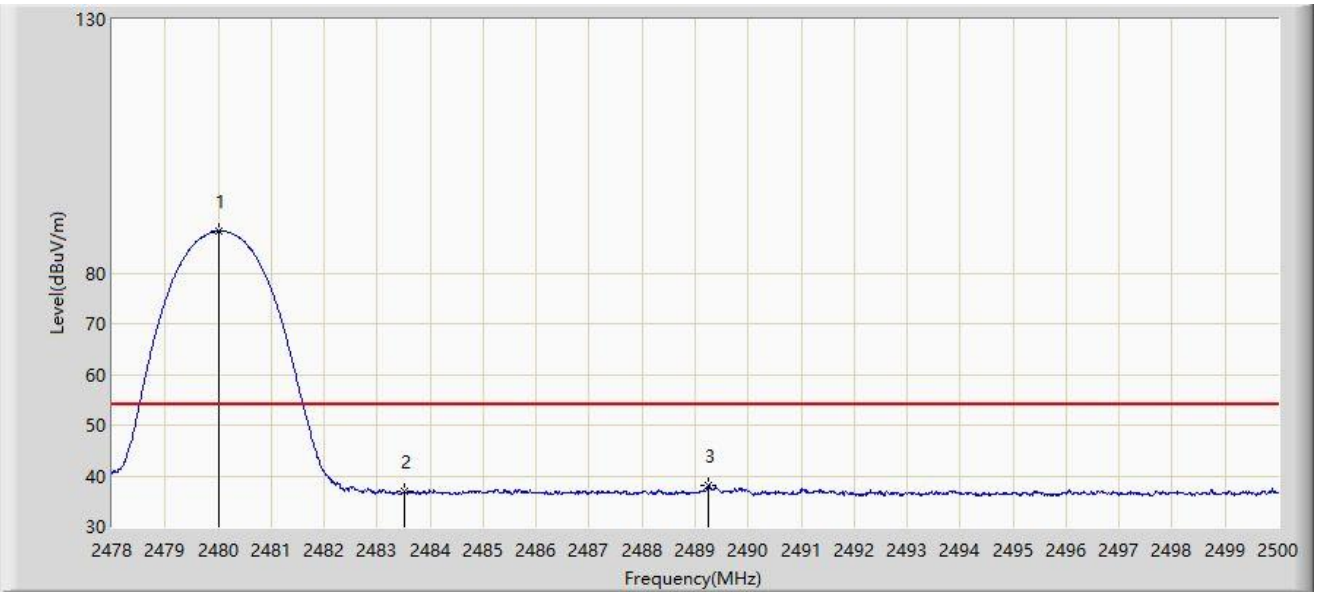
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2480.145	94.867	62.584	N/A	N/A	32.283	PK
2		2483.500	52.358	20.058	-21.642	74.000	32.300	PK
3	*	2485.260	55.703	23.394	-18.297	74.000	32.309	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Test Date: 2023-12-16
Limit: FCC_2.4G_RE(3m)	Engineer: Fusco Pan
Probe: HF907_102861_1-18GHz	Polarity: Vertical
EUT: BT Module	Power: By DC 5V
Test Mode: Transmit By 3DH5 at 2480MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2480.024	88.267	55.985	N/A	N/A	32.282	AV
2		2483.500	36.880	4.580	-17.120	54.000	32.300	AV
3	*	2489.242	37.995	5.665	-16.005	54.000	32.330	AV

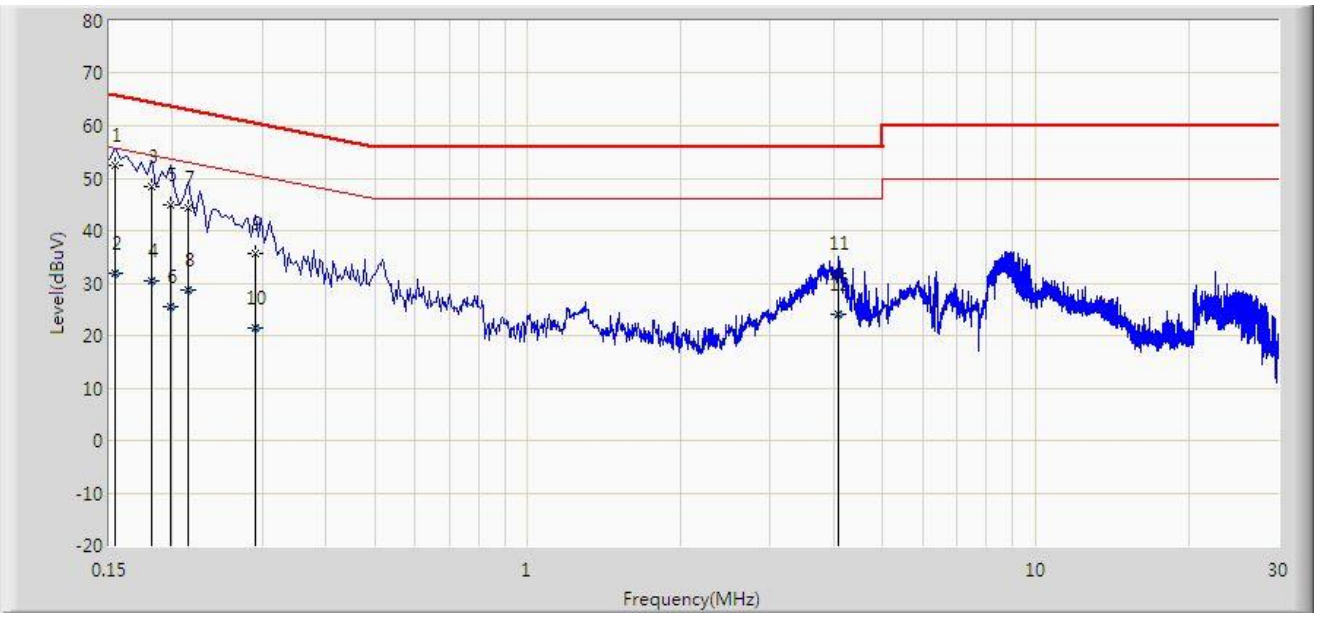
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

A.11 AC Conducted Emissions Test Result

Site: SIP-SR2	Test Date: 2023/12/29
Temperature: 17.6°C	Humidity: 49.1%
Limit: FCC_Part15.207_CE_AC Power	Engineer: Mark Long
Probe: SIP-SR2-ENV216_101684_C	Polarity: Line
EUT: BT Module	Power: AC 120V/60Hz
Test Mode: Transmit by DH5 at 2402MHz	



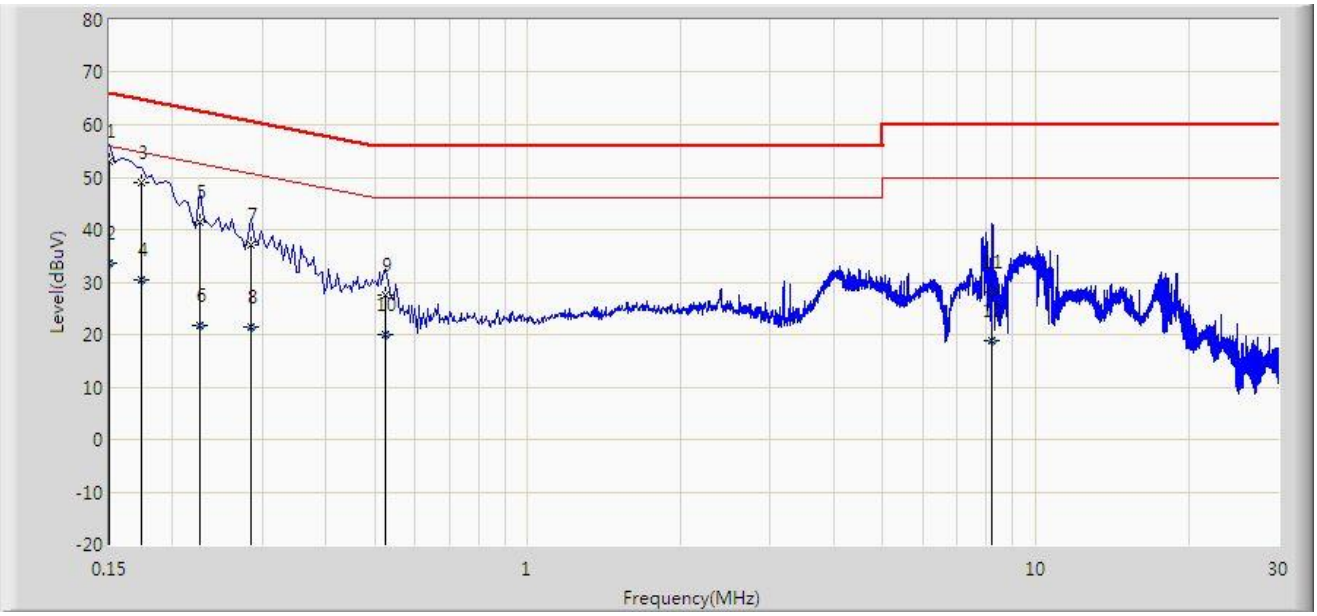
No	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1	*	0.154	52.516	42.601	-13.266	65.781	9.915	QP
2		0.154	31.741	21.826	-24.040	55.781	9.915	AV
3		0.182	48.382	38.359	-16.012	64.394	10.023	QP
4		0.182	30.369	20.346	-24.025	54.394	10.023	AV
5		0.198	44.876	34.827	-18.818	63.694	10.049	QP
6		0.198	25.503	15.453	-28.191	53.694	10.049	AV
7		0.214	44.356	34.330	-18.693	63.049	10.025	QP
8		0.214	28.647	18.622	-24.401	53.049	10.025	AV
9		0.290	35.589	25.820	-24.935	60.524	9.769	QP
10		0.290	21.580	11.811	-28.944	50.524	9.769	AV
11		4.090	31.762	21.911	-24.238	56.000	9.851	QP
12		4.090	24.144	14.293	-21.856	46.000	9.851	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB).

Note 3: Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

Site: SIP-SR2	Test Date: 2023/12/29
Temperature: 17.6°C	Humidity: 49.1%
Limit: FCC_Part15.207_CE_AC Power	Engineer: Mark Long
Probe: SIP-SR2-ENV216_101684_C	Polarity: Neutral
EUT: BT Module	Power: AC 120V/60Hz
Test Mode: Transmit by DH5 at 2402MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1	*	0.150	52.935	43.292	-13.065	66.000	9.642	QP
2		0.150	33.755	24.113	-22.245	56.000	9.642	AV
3		0.174	48.851	39.211	-15.916	64.767	9.640	QP
4		0.174	30.360	20.720	-24.408	54.767	9.640	AV
5		0.226	41.523	31.837	-21.073	62.595	9.686	QP
6		0.226	21.628	11.943	-30.967	52.595	9.686	AV
7		0.286	37.130	27.435	-23.510	60.640	9.696	QP
8		0.286	21.585	11.890	-29.055	50.640	9.696	AV
9		0.526	27.482	17.772	-28.518	56.000	9.710	QP
10		0.526	20.142	10.432	-25.858	46.000	9.710	AV
11		8.206	28.037	18.057	-31.963	60.000	9.980	QP
12		8.206	18.786	8.806	-31.214	50.000	9.980	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB).

Note 3: Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

Appendix B - Test Setup Photograph

Refer to “2311RSU069-UT” file.

Appendix C - EUT Photograph

Refer to “2311RSU069-UE” file.

The End