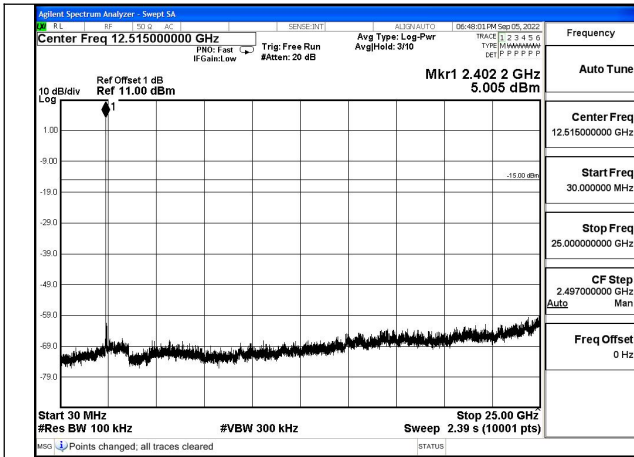
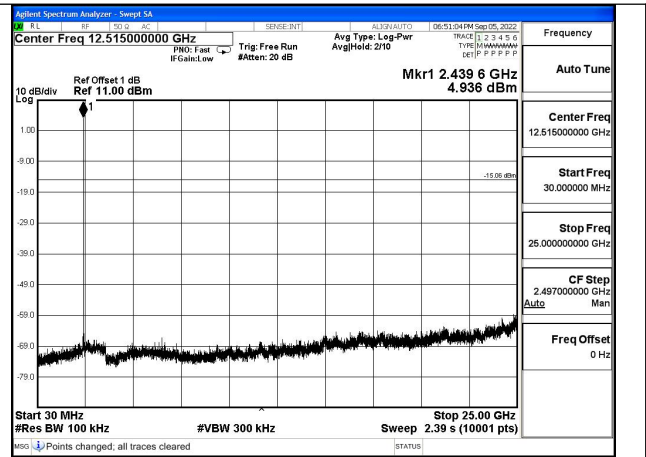


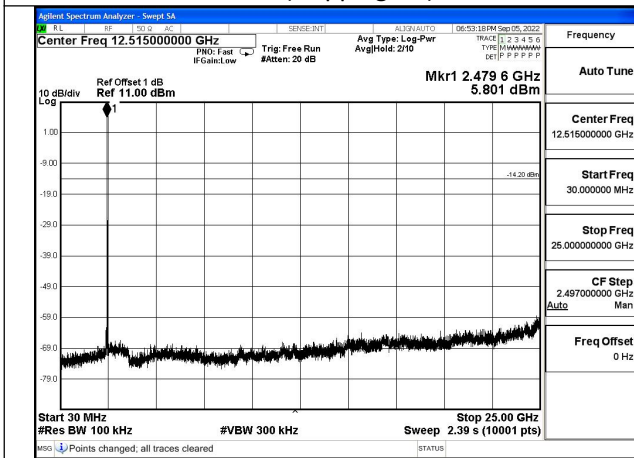
Test Mode:  $\pi$ /4DQPSK



CH0(Hopping off)



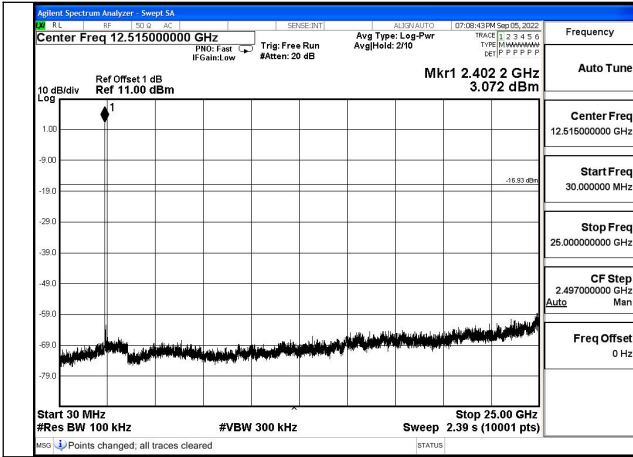
CH39(Hopping off)



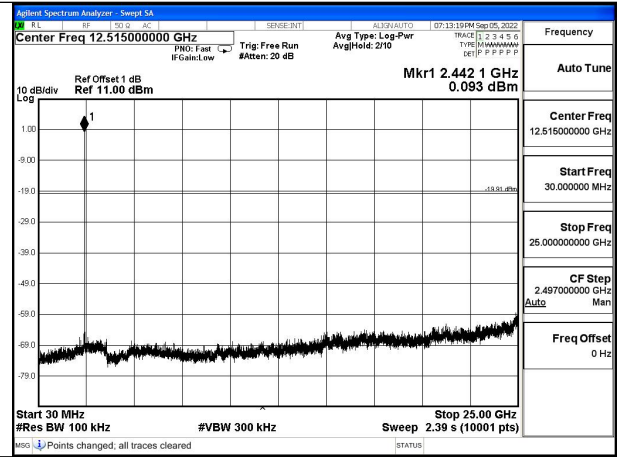
CH78(Hopping off)



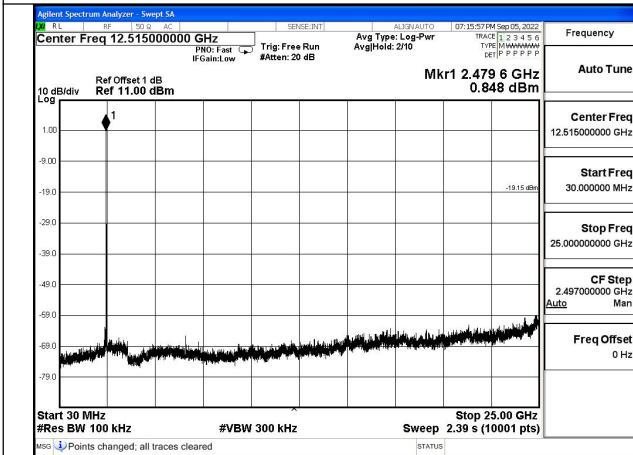
Test Mode: 8DPSK



CH0(Hopping off)



CH39(Hopping off)



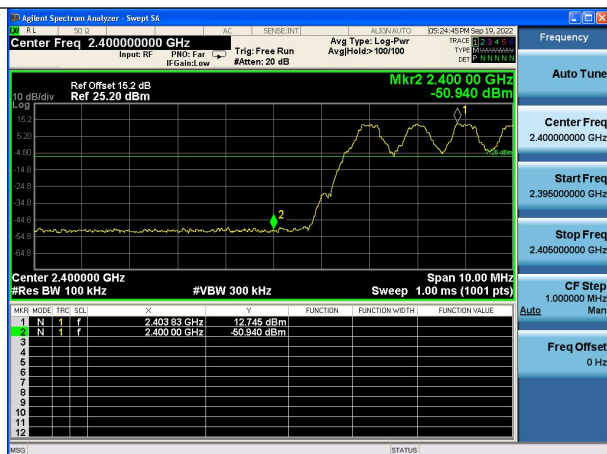
CH78(Hopping off)



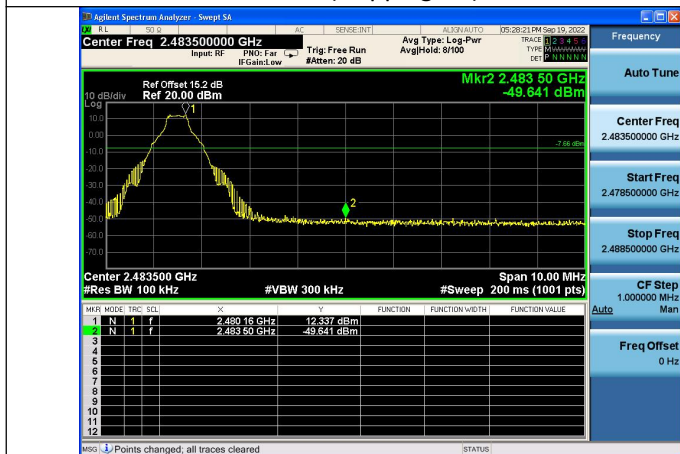
**7 Band Edge measurement**  
Test Mode: GFSK



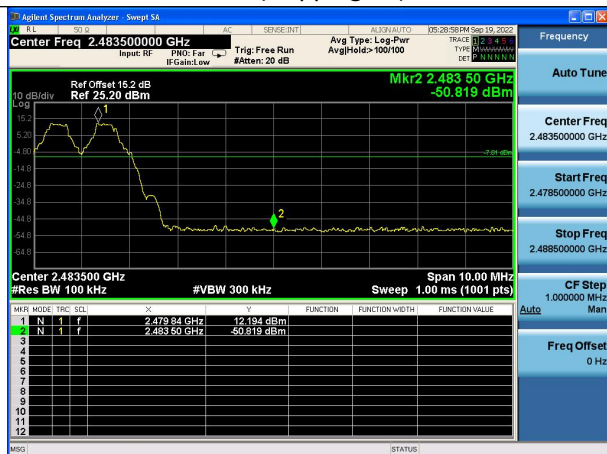
CH0(Hopping off)



CH0(Hopping on)

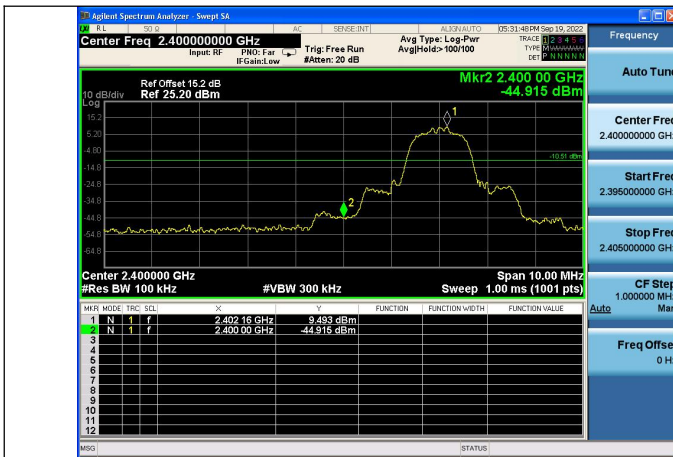


CH78(Hopping off)

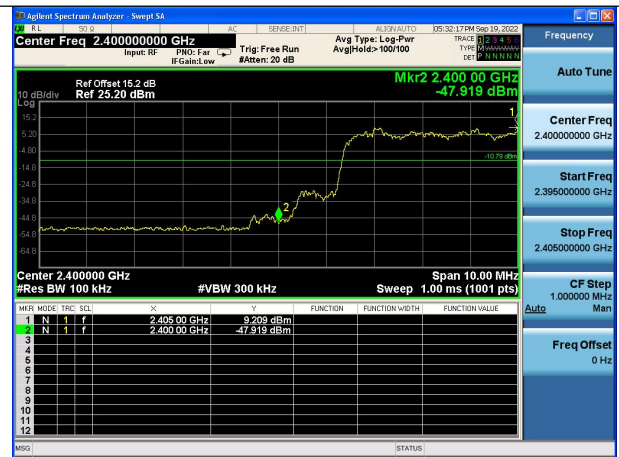


CH78(Hopping on)

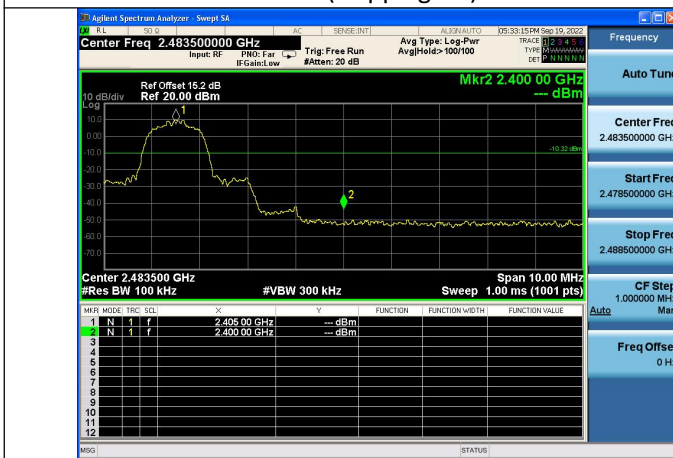
Test Mode:  $\pi$  /4DQPSK



CH0(Hopping off)



CH0(Hopping on)

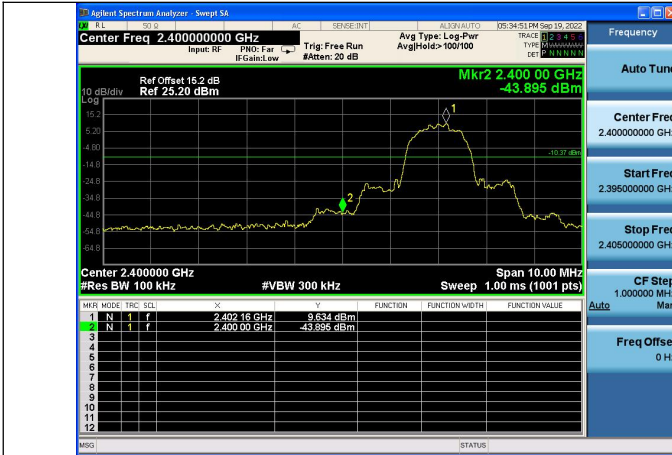


CH78(Hopping off)



CH78(Hopping on)

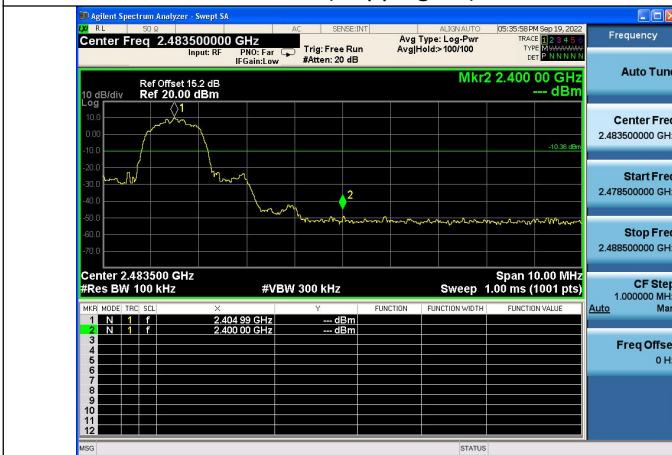
Test Mode: 8DPSK



CH0(Hopping off)



CH0(Hopping on)



CH78(Hopping off)



CH78(Hopping on)

## **APPENDIX B – TEST DATA OF RADIATED EMISSION**

### **Worst case(BT GFSK-DH5)**

#### **Radiated Emission Band Edge**

The worst case attitude: The mobile lay down.

The measurement results are obtained as described below:

Measure Level = Reading Level + Cable loss + Antenna factor Sample calculation: (89.30 dBuV/m) = (55.30 dBμV) + (8.90 dB) + (25.10 dB), the corresponding frequency is 2402MHz.

Note: The scanned graph represents the maximum of both horizontal and vertical polarizations and is not a single horizontal or vertical polarization scan.

Note: There were no emissions above 18GHz found within 20dB of the limit. Thus the test result was not reported according to §15.31 (o)

BR-1Mbps

Carrier Frequency (MHz): 2402

Channel No.: 0

Test Mode: GFSK

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
2402.0	38.59	72.59	N/A	N/A	8.90	25.10
S2390.0	6.29	40.29	-33.71	74.00	8.90	25.10

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
2402.0	37.88	71.88	N/A	N/A	8.90	25.10
2390.0	-7.03	26.97	-27.03	54.00	8.90	25.10

Carrier Frequency (MHz): 2480

Channel No.: 78

Test Mode: GFSK

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
2480.0	32.02	66.02	N/A	N/A	8.90	25.10
2483.5	5.33	39.33	-34.67	74.00	8.90	25.10

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
2480.0	31.76	65.76	N/A	N/A	8.90	25.10
2483.5	-7.59	26.41	-27.59	54.00	8.90	25.10

## Sample Calculations

### Determining Spurious Emissions Levels

A “reference path loss” is established and the  $A_{Rpl}$  is the attenuation of “reference path loss”, and including the gain of receive antenna, the gain of the preamplifier, the cable loss. The measurement results are obtained as described below:

Below 1GHz:

$$\text{QuasiPeak} = \text{Reading Value} + A_{Rpl}$$

Above 1GHz:

$$\text{MaxPeak} = \text{Reading MaxPeak} + A_{Rpl}$$

OR

$$\text{Average} = \text{Reading Average} + A_{Rpl}$$

Sample calculation:  $(30.73 \text{ dB}\mu\text{V/m}) = (54.53 \text{ dB}\mu\text{V}) + (-23.80 \text{ dB/m})$ , the corresponding frequency is 30.097MHz.

The worst case attitude: The mobile lay down.

Spurious Radiated Emissions below 30MHz:

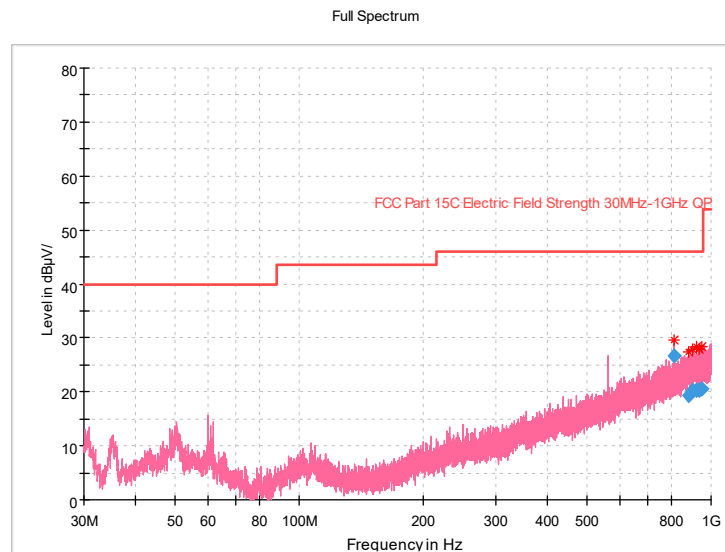
There were no emissions from 9 kHz to 30MHz found within 20dB of the limit. Thus, the test result was not reported according to §15.31 (o).

BR-1Mbps

Spurious Radiated Emissions from 30MHz to 1GHz:

GFSK:

CH Middle (No.39)



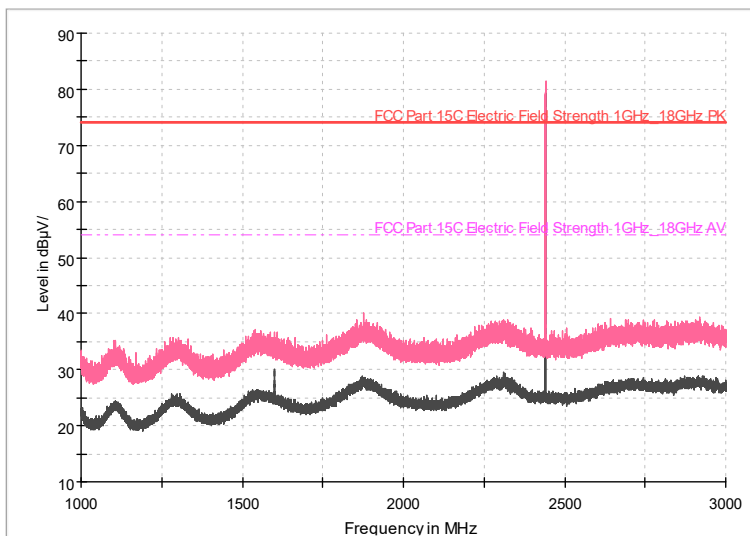
Frequency (MHz)	Reading (dBuV)	QuasiPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	$A_{Rpl}$ (dB)	Polarity
812.55	31.55	26.65	46.00	19.35	-4.90	Vertical
880.84	22.70	19.30	46.00	26.70	-3.40	Vertical
904.50	22.93	20.33	46.00	25.67	-2.60	Vertical
921.48	22.84	20.34	46.00	25.66	-2.50	Vertical
937.87	22.90	20.40	46.00	25.60	-2.50	Vertical
947.18	22.96	20.56	46.00	25.44	-2.40	Vertical

Spurious Radiated Emissions from 1GHz to 18GHz:

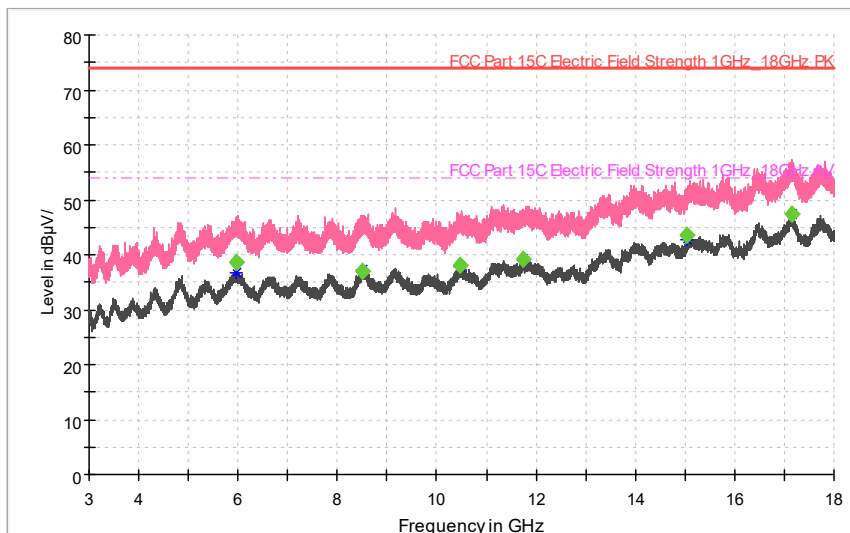
GFSK:

CH Middle (No.39)

Full Spectrum



Full Spectrum

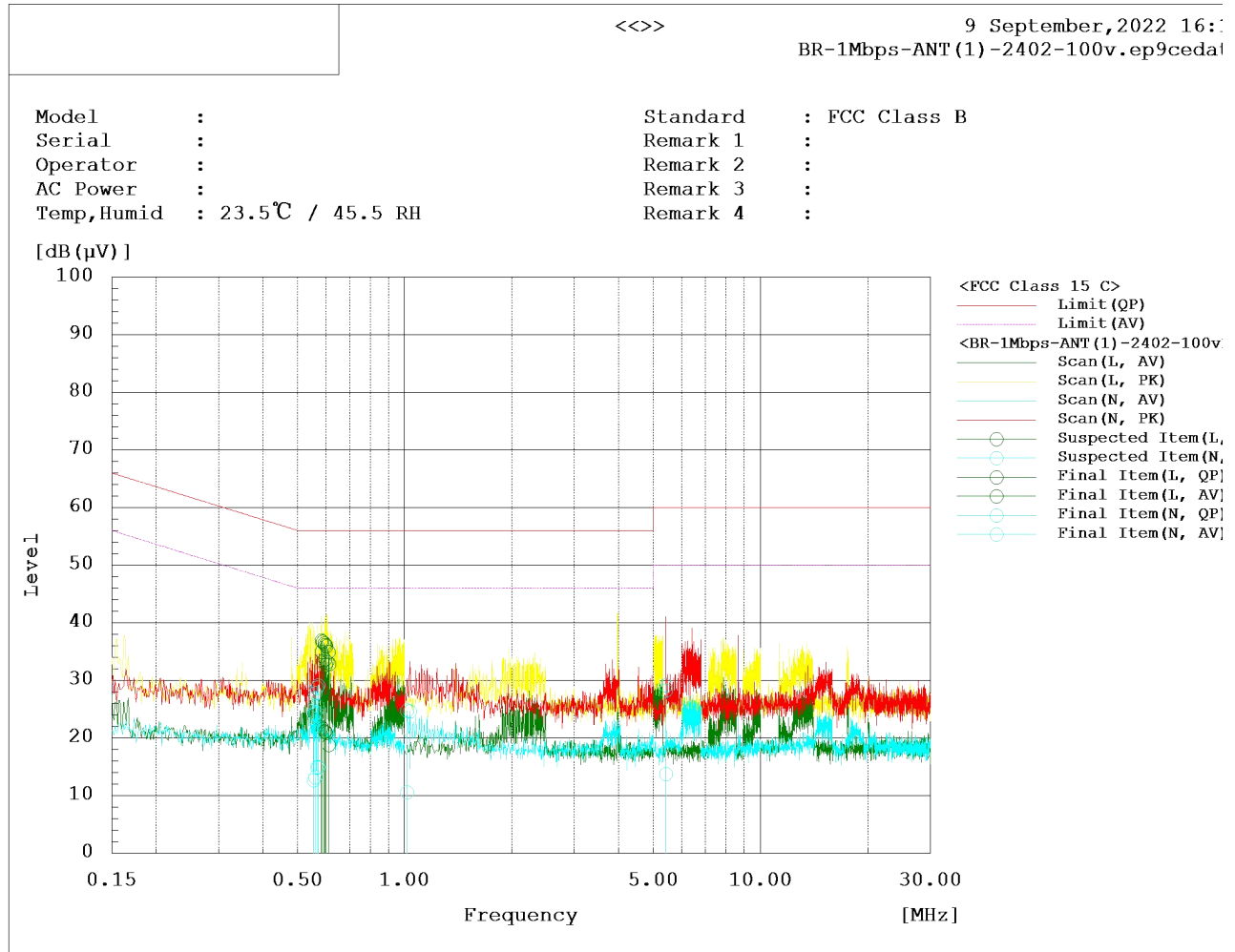


Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A <sub>Rpl</sub> (dB)	Polarity
5954.00	---	58.69	---	38.59	54.00	15.41	-20.10	Vertical
8506.50	---	57.03	---	36.93	54.00	17.07	-20.10	Vertical
10468.00	---	56.79	---	37.99	54.00	16.01	-18.80	Vertical
11742.00	---	55.99	---	39.29	54.00	14.71	-16.70	Vertical
15032.50	---	56.94	---	43.64	54.00	10.36	-13.30	Vertical
17165.00	---	58.92	---	47.32	54.00	6.68	-11.60	Vertical



**AC Power line Conducted Emission**

**100V**

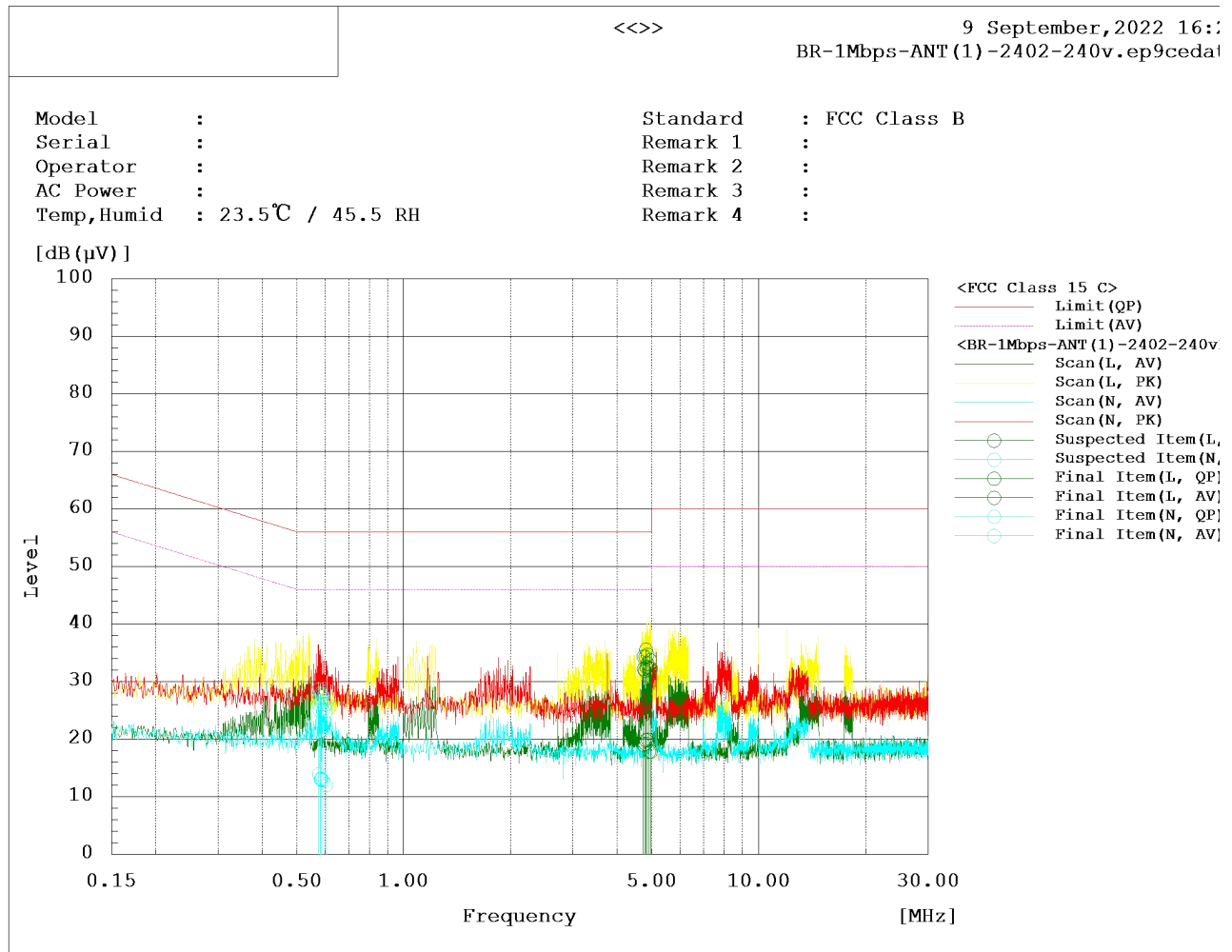


**L+N Line**

**MEASUREMENT RESULT:**

Range	Frequency	Line	Reading			Factor	Level			Limit			Margin			Pass/Fail	
			dB(µV)				dB	dB(µV)			dB(µV)			dB			
			QP	AV	PK			QP	AV	PK	QP	AV	PK	QP	AV		PK
Band1	0.58	L	17.3	2.3		19.6	36.9	21.9			56	46		19.1	24.1		Pass
Band1	0.59	L	17.1	2		19.6	36.7	21.6			56	46		19.3	24.4		Pass
Band1	0.6	L	16.8	1.6		19.6	36.4	21.2			56	46		19.6	24.8		Pass
Band1	0.6	L	16.6	1.5		19.6	36.2	21.1			56	46		19.8	24.9		Pass
Band1	0.6	L	16.3	1.3		19.6	35.9	20.9			56	46		20.1	25.1		Pass
Band1	0.61	L	15.3	-0.8		19.6	34.9	18.8			56	46		21.1	27.2		Pass
Band1	0.55	N	7.2	-6.9		19.6	26.8	12.7			56	46		29.2	33.3		Pass
Band1	0.56	N	8.2	-6.4		19.6	27.8	13.2			56	46		28.2	32.8		Pass
Band1	0.57	N	9.2	-4.7		19.6	28.8	14.9			56	46		27.2	31.1		Pass
Band1	0.57	N	9.5	-4.6		19.6	29.1	15			56	46		26.9	31		Pass
Band1	1.02	N	5.2	-8.9		19.5	24.7	10.6			56	46		31.3	35.4		Pass
Band1	5.41	N	9.6	-5.8		19.6	29.2	13.8			60	50		30.8	36.2		Pass

**240V**



**MEASUREMENT RESULT:**

Range	Frequency MHz	Line	Reading			Factor dB	Level			Limit			Margin			Pass/Fail
			dB(μV)				dB(μV)			dB(μV)			dB			
			QP	AV	PK		QP	AV	PK	QP	AV	PK	QP	AV	PK	
Band1	0.58	N	9.1	-5.7		19.6	28.7	13.9		56	46		27.3	32.1		Pass
Band1	0.58	N	8.4	-6.4		19.6	28	13.2		56	46		28	32.8		Pass
Band1	0.58	N	8.4	-6.7		19.6	28	12.9		56	46		28	33.1		Pass
Band1	0.59	N	8.1	-6.5		19.6	27.7	13.1		56	46		28.3	32.9		Pass
Band1	0.59	N	7.8	-6.8		19.6	27.4	12.8		56	46		28.6	33.2		Pass
Band1	0.61	N	6.6	-7.6		19.6	26.2	12		56	46		29.8	34		Pass
Band1	4.73	L	14.8	-0.5		19.6	34.4	19.1		56	46		21.6	26.9		Pass
Band1	4.79	L	14.7	-0.4		19.6	34.3	19.2		56	46		21.7	26.8		Pass
Band1	4.81	L	15.9	0.2		19.6	35.5	19.8		56	46		20.5	26.2		Pass
Band1	4.85	L	15.1	0.3		19.6	34.7	19.9		56	46		21.3	26.1		Pass
Band1	4.91	L	12.8	-1.8		19.6	32.4	17.8		56	46		23.6	28.2		Pass
Band1	4.96	L	12.6	-1.8		19.6	32.2	17.8		56	46		23.8	28.2		Pass

---End of Test Report---