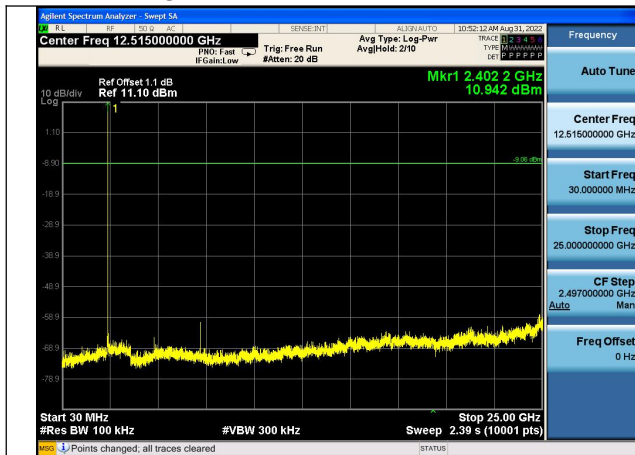


6 Conducted Out of band emission measurement

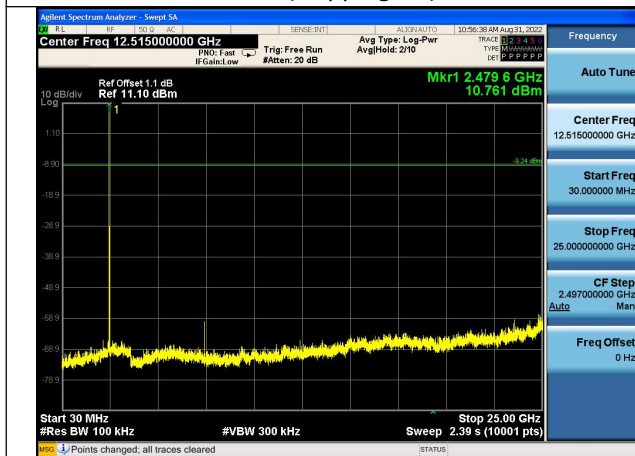
Test Mode: GFSK



CH0(Hopping off)

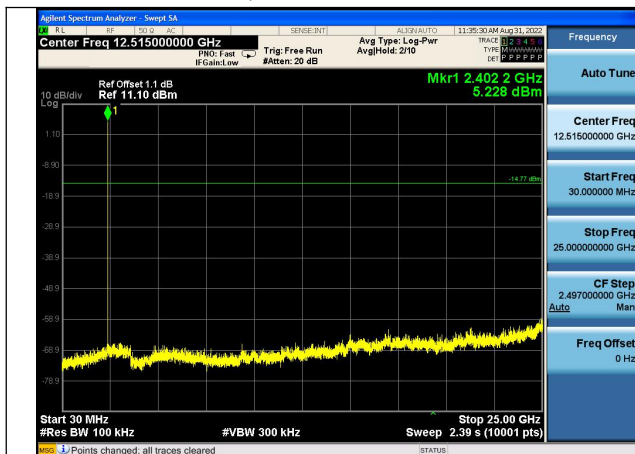


CH39(Hopping off)

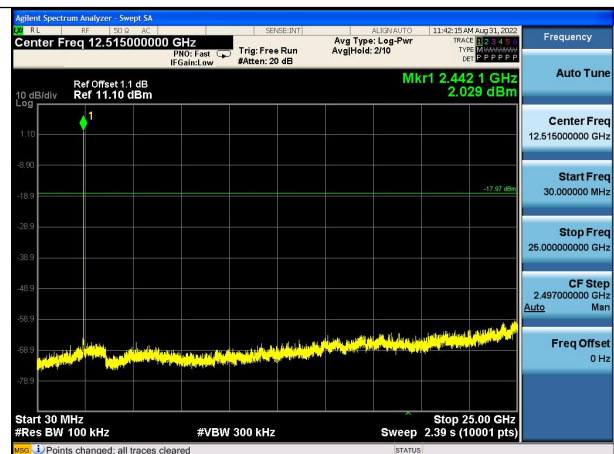


CH78(Hopping off)

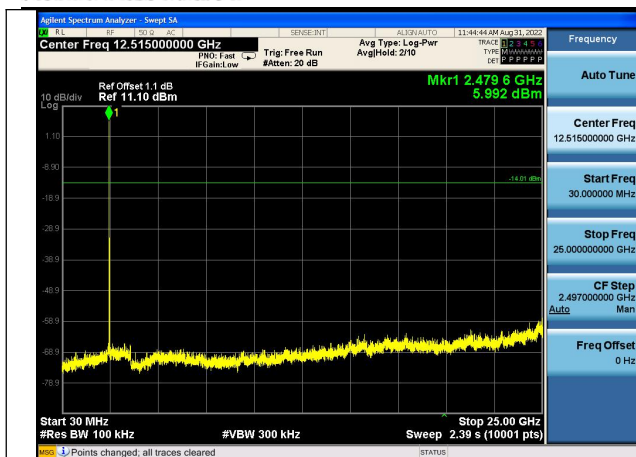
Test Mode: $\pi/4$ DQPSK



CH0(Hopping off)

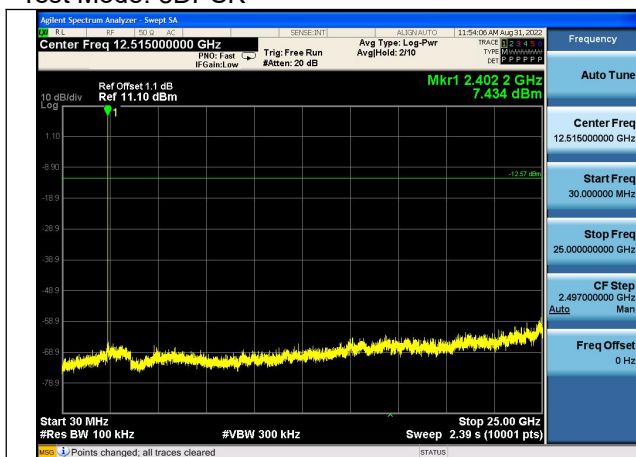


CH39(Hopping off)

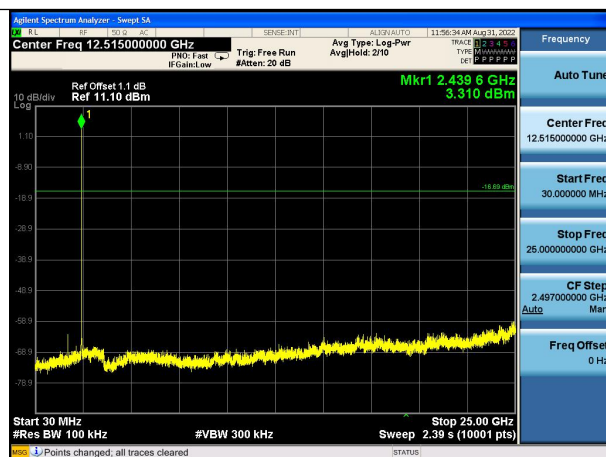


CH78(Hopping off)

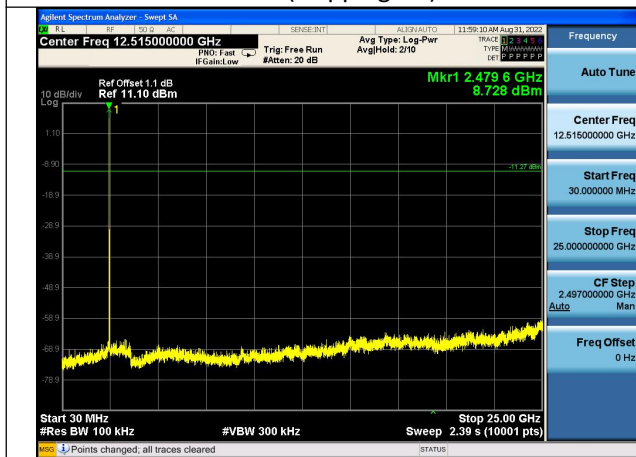
Test Mode: 8DPSK



CH0(Hopping off)



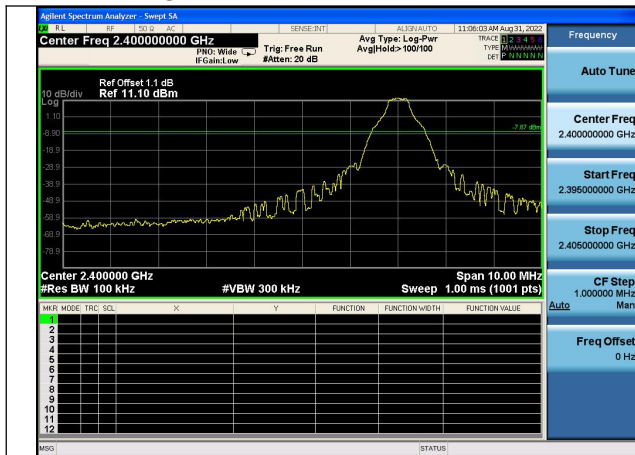
CH39(Hopping off)



CH78(Hopping off)

7 Band Edge measurement

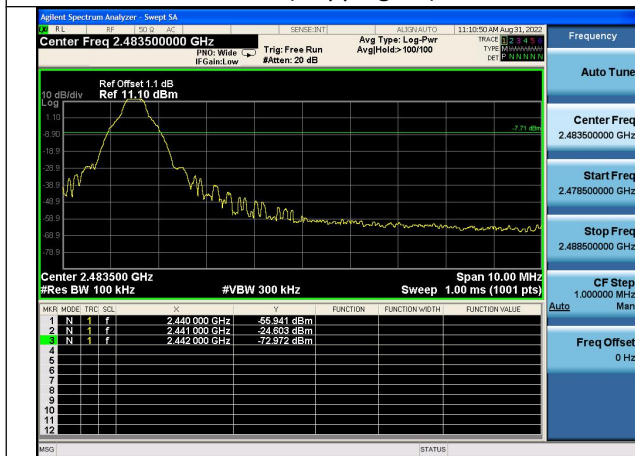
Test Mode: GFSK



CH0(Hopping off)



CH0(Hopping on)



CH78(Hopping off)

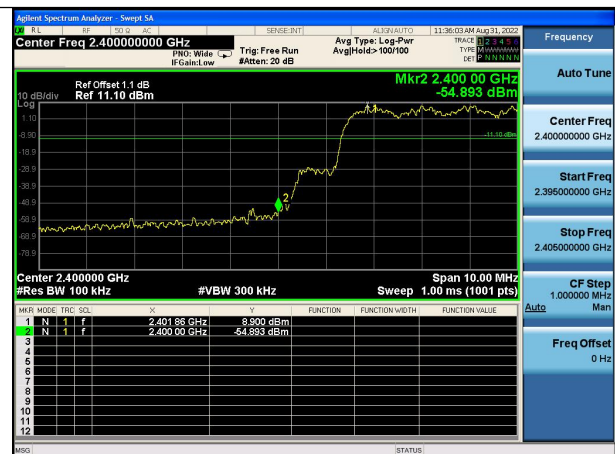


CH78(Hopping on)

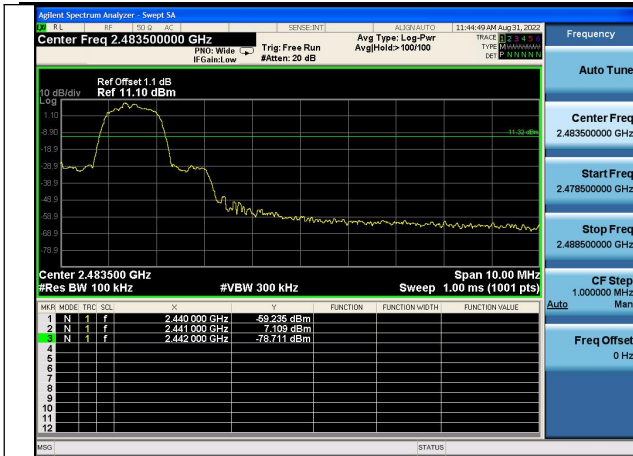
Test Mode: $\pi/4$ DQPSK



CH0(Hopping off)



CH0(Hopping on)

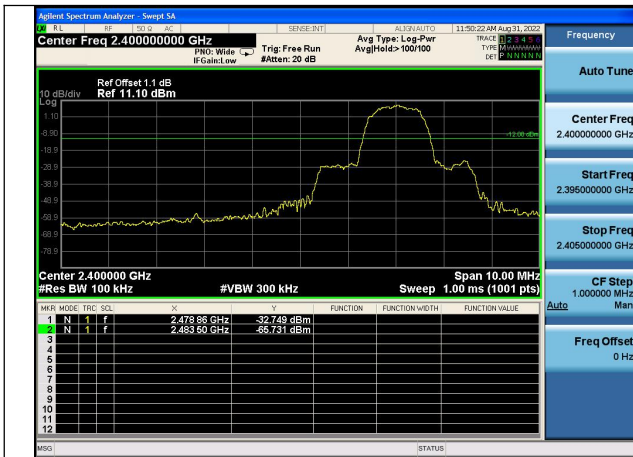


CH78(Hopping off)



CH78(Hopping on)

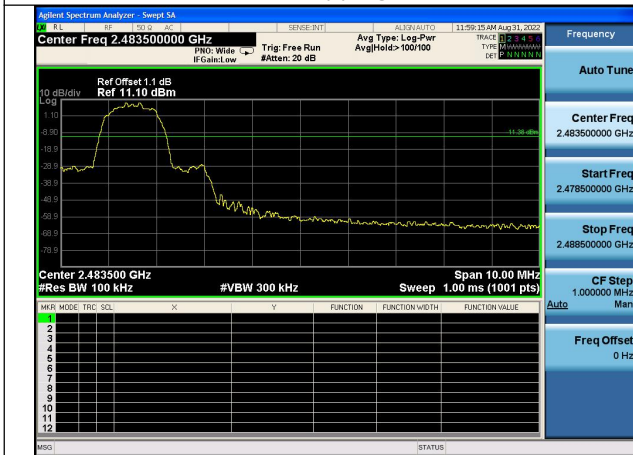
Test Mode: 8DPSK



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 dBuV) + (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	36.73	70.73	N/A	N/A	8.90	25.10
2390.0	6.87	40.87	-33.13	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	37.57	71.57	N/A	N/A	8.90	25.10
2390.0	-5.99	28.01	-25.99	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	39.57	73.57	N/A	N/A	8.90	25.10
2483.5	5.84	39.84	-34.16	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	39.51	73.51	N/A	N/A	8.90	25.10
2483.5	-7.02	26.98	-27.02	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:

QuasiPeak=Reading Value + A_{Rpl}

Above 1GHz:

MaxPeak=Reading MaxPeak + A_{Rpl}

OR

Average=Reading Average + A_{Rpl}

Sample calculation: (30.73 dB μ V/m) = (54.53 dB μ V) + (-23.80 dB/m), the corresponding frequency is 30.097MHz.

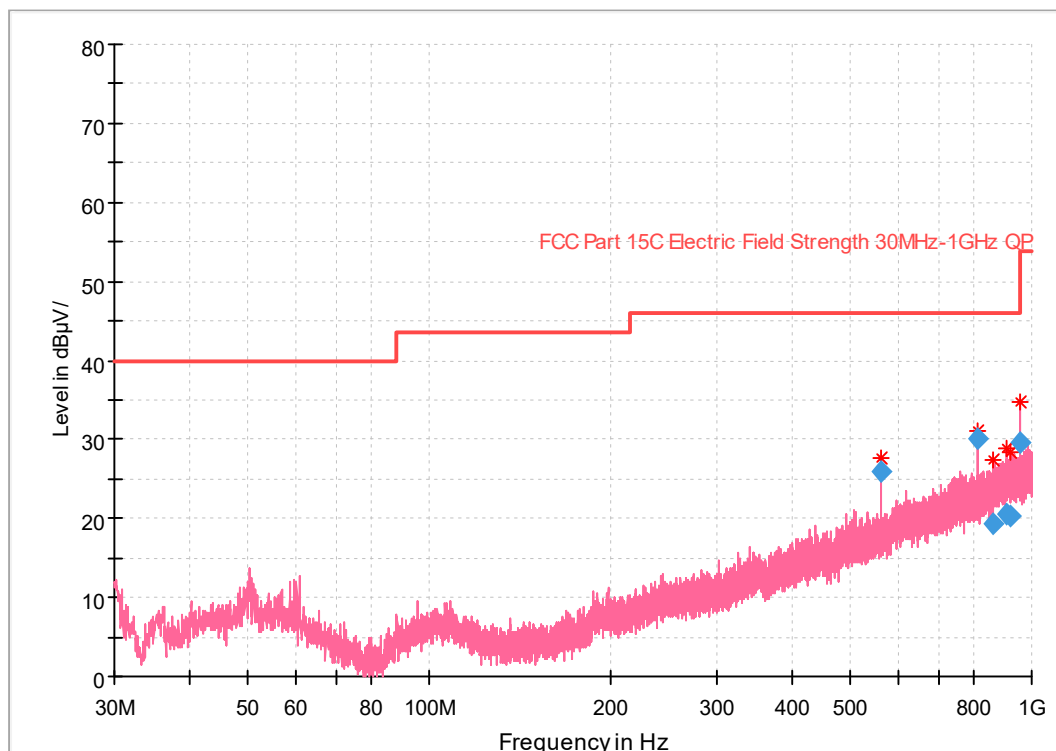
The worst case attitude: The mobile lay down.

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)

Full Spectrum



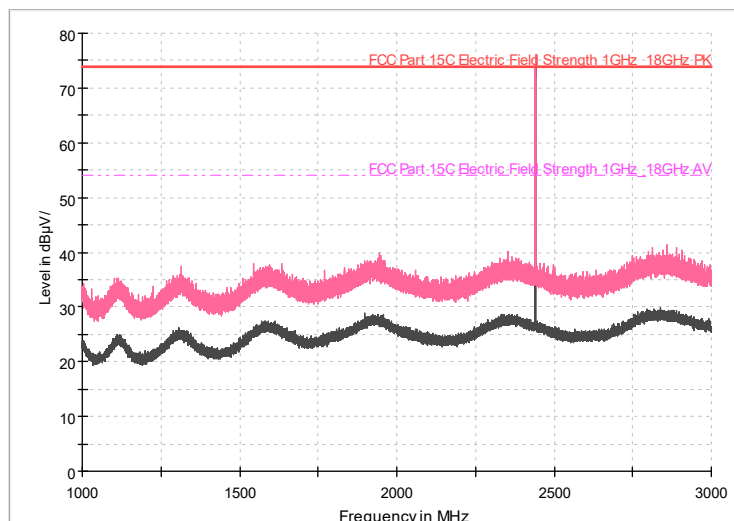
Frequency (MHz)	Reading (dBuV)	QuasiPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
562.53	35.82	25.92	46.00	20.08	-9.90	Vertical
812.50	35.08	30.18	46.00	15.82	-4.90	Vertical
860.22	22.96	19.26	46.00	26.74	-3.70	Vertical
907.32	22.94	20.44	46.00	25.56	-2.50	Vertical
923.90	22.88	20.38	46.00	25.62	-2.50	Vertical
959.84	32.14	29.64	46.00	16.36	-2.50	Vertical

Spurious Radiated Emissions from 1GHz to 18GHz:

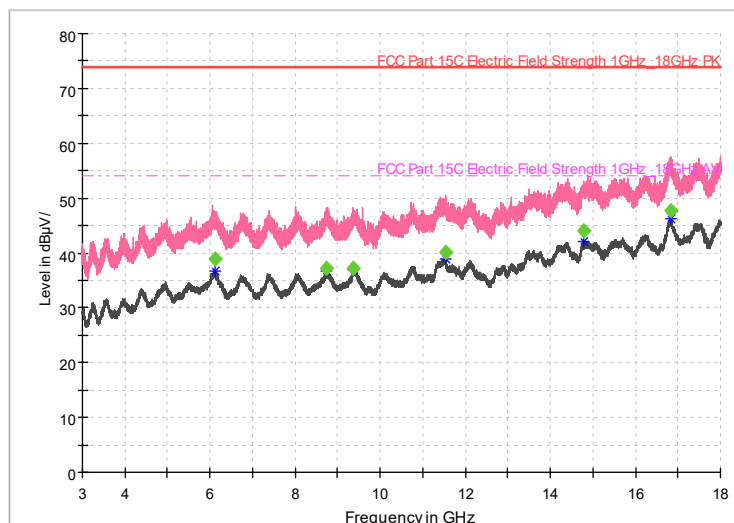
GFSK:

CH Middle (No.39)

Full Spectrum



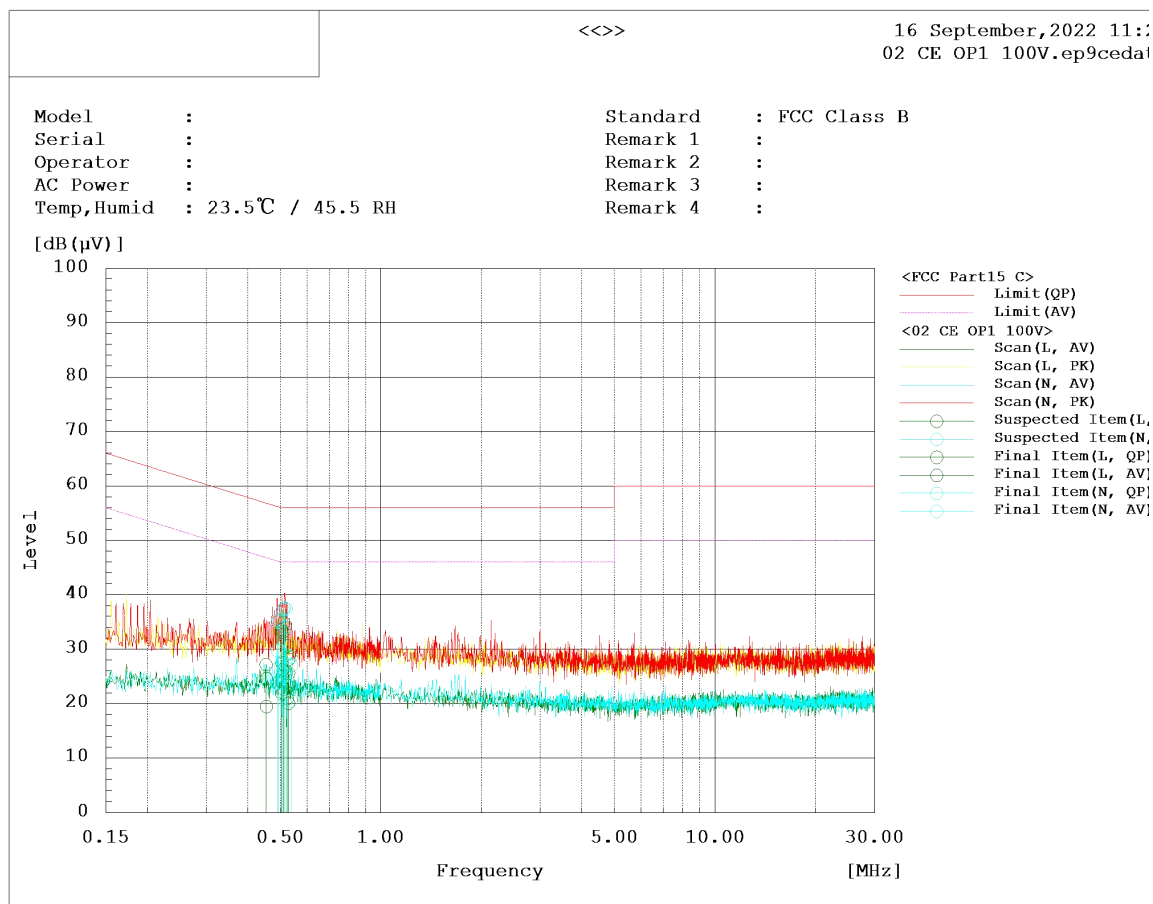
Full Spectrum



Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
6108.00	---	59.36	---	38.86	54.00	15.14	-20.50	Vertical
8741.50	---	57.36	---	37.06	54.00	16.94	-20.30	Vertical
9374.00	---	57.01	---	37.31	54.00	16.69	-19.70	Vertical
11525.50	---	56.56	---	40.06	54.00	13.94	-16.50	Vertical
14796.50	---	57.31	---	44.11	54.00	9.89	-13.20	Vertical
16835.00	---	59.99	---	47.59	54.00	6.41	-12.40	Vertical

AC Power line Conducted Emission

100V

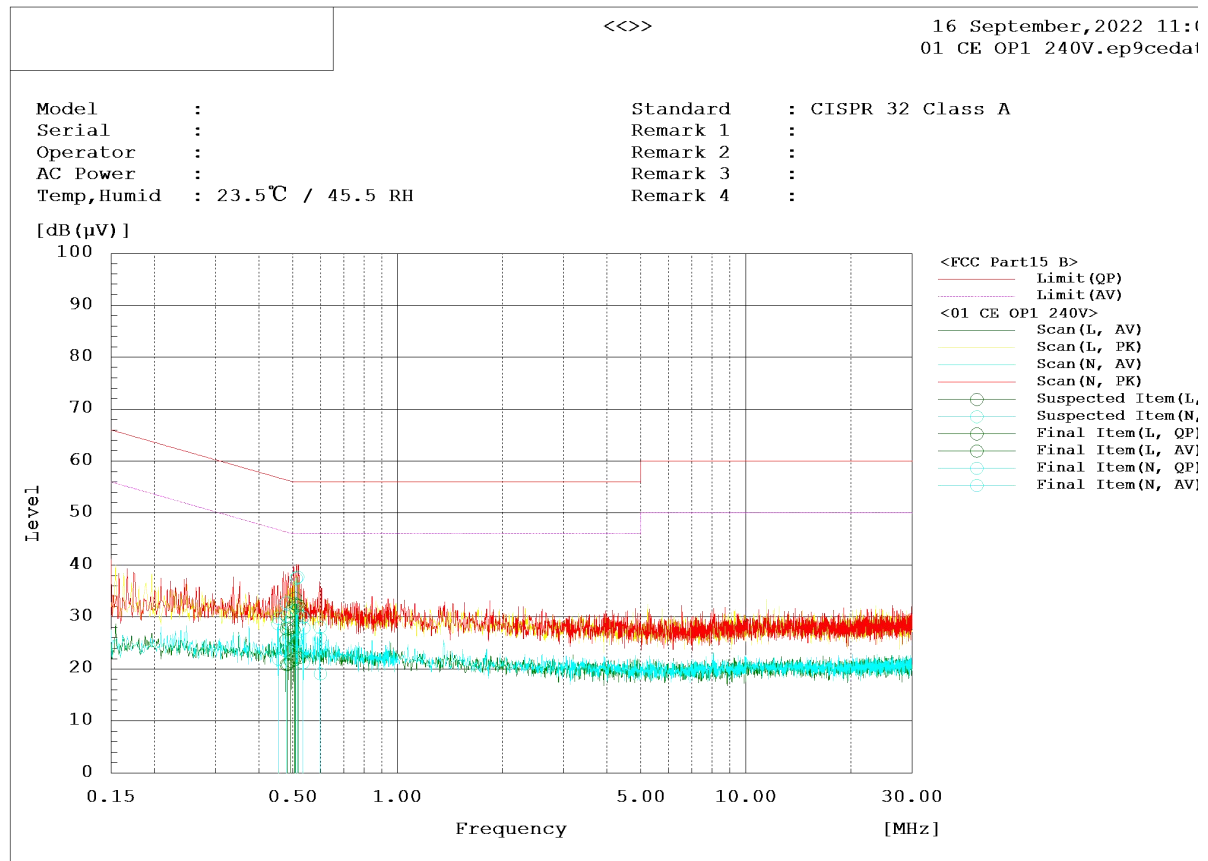


L+N Line

MEASUREMENT RESULT:

Range	Frequency	Line	Reading			Factor	Level			Limit	Limit			Margin			Pass/Fail	
	MHz			dB(μV)			dB	dB(μV)			dB(μV)	dB(μV)			dB			
				QP	AV	PK		QP	AV	PK		QP	AV	PK	QP	AV		PK
Band1	0.45	L	5.0	-0.1		19.6	24.6	19.5			57	47		32.2	27.3		Pass	
Band1	0.50	L	14.0	2.3		19.6	33.6	21.9			56	46		22.4	24.1		Pass	
Band1	0.51	L	13.6	2.6		19.6	33.2	22.2			56	46		22.8	23.8		Pass	
Band1	0.51	L	15.3	3.1		19.6	34.9	22.7			56	46		21.1	23.3		Pass	
Band1	0.52	L	11.0	1.4		19.6	30.6	21.0			56	46		25.4	25.0		Pass	
Band1	0.53	L	8.5	0.5		19.6	28.1	20.1			56	46		27.9	25.9		Pass	
Band1	0.49	N	15.4	4.2		19.6	35.0	23.8			56	46		21.2	22.4		Pass	
Band1	0.49	N	15.7	4.4		19.6	35.3	24.0			56	46		20.8	22.1		Pass	
Band1	0.51	N	17.7	6.9		19.6	37.3	26.5			56	46		18.7	19.5		Pass	
Band1	0.51	N	18.0	5.8		19.6	37.6	25.4			56	46		18.4	20.6		Pass	
Band1	0.52	N	17.8	9.4		19.6	37.4	29.0			56	46		18.6	17.0		Pass	
Band1	0.54	N	9.0	1.0		19.6	28.6	20.6			56	46		27.4	25.4		Pass	

240V



L+N Line

MEASUREMENT RESULT:

Range	Frequency MHz	Line	Reading			Factor dB	Level			Limit dB(μV)	Limit			Margin			Pass/Fail
			dB(μV)				dB(μV)				dB(μV)			dB			
			QP	AV	PK		QP	AV	PK		QP	AV	PK	QP	AV	PK	
Band1	0.46	N	10.1	2.3		19.6	29.7	21.9			57	47		27.1	24.9		Pass
Band1	0.48	N	13.2	3.8		19.6	32.8	23.4			56	46		23.6	23.0		Pass
Band1	0.51	N	17.8	5.6		19.6	37.4	25.2			56	46		18.6	20.8		Pass
Band1	0.52	N	18.1	6.0		19.6	37.7	25.6			56	46		18.3	20.4		Pass
Band1	0.53	N	10.4	1.6		19.6	30.0	21.2			56	46		26.0	24.8		Pass
Band1	0.6	N	6.3	-0.5		19.6	25.9	19.1			56	46		30.1	26.9		Pass
Band1	0.48	L	8.1	1.3		19.6	27.7	20.9			56	46		28.7	25.5		Pass
Band1	0.48	L	9.2	1.3		19.6	28.8	20.9			56	46		27.5	25.4		Pass
Band1	0.49	L	11.6	2.0		19.6	31.2	21.6			56	46		24.9	24.5		Pass
Band1	0.51	L	13.1	2.2		19.6	32.7	21.8			56	46		23.3	24.2		Pass
Band1	0.51	L	14.0	2.7		19.6	33.6	22.3			56	46		22.4	23.7		Pass
Band1	0.52	L	12.7	2.5		19.6	32.3	22.1			56	46		23.7	23.9		Pass

---End of Test Report---