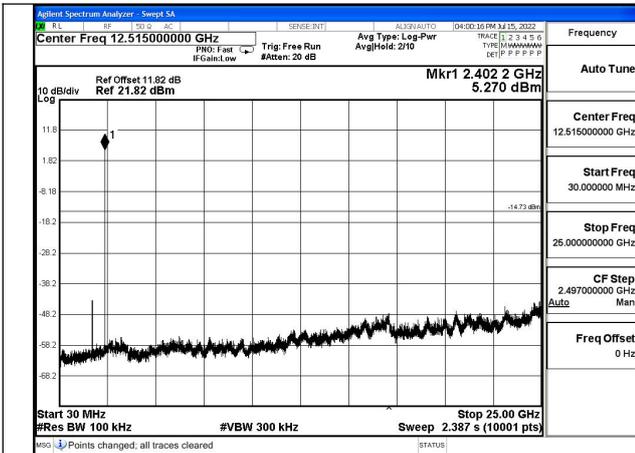
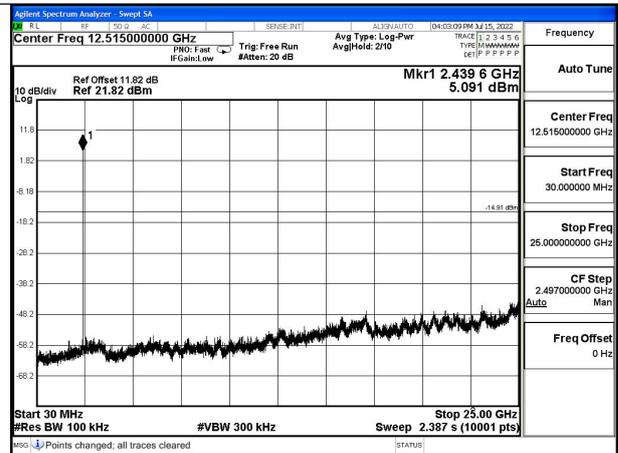


CH39

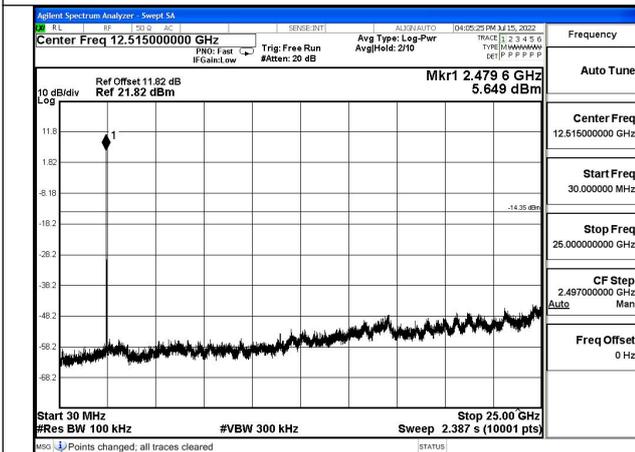
Test Mode: Coded 125K



CH0

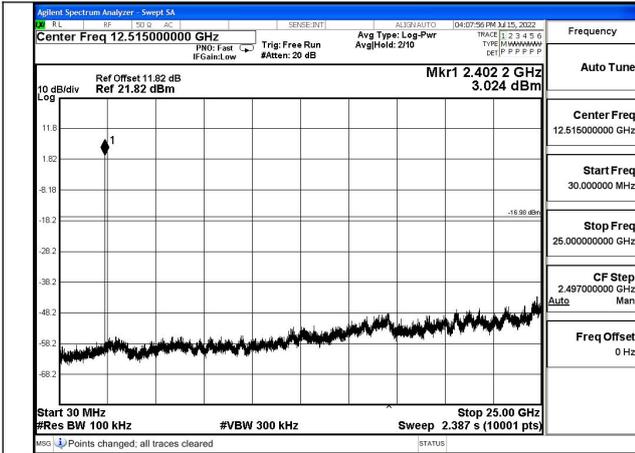


CH19

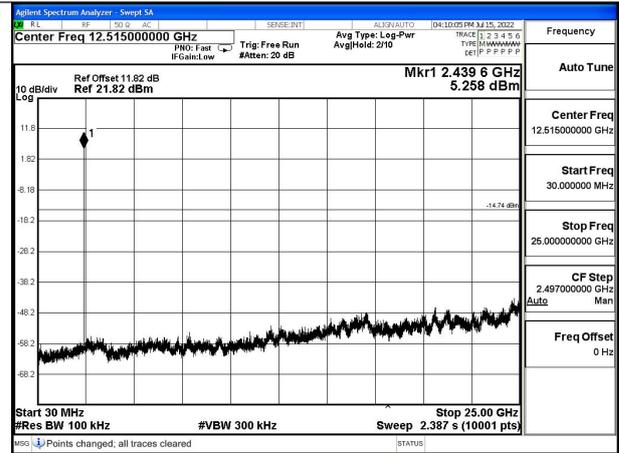


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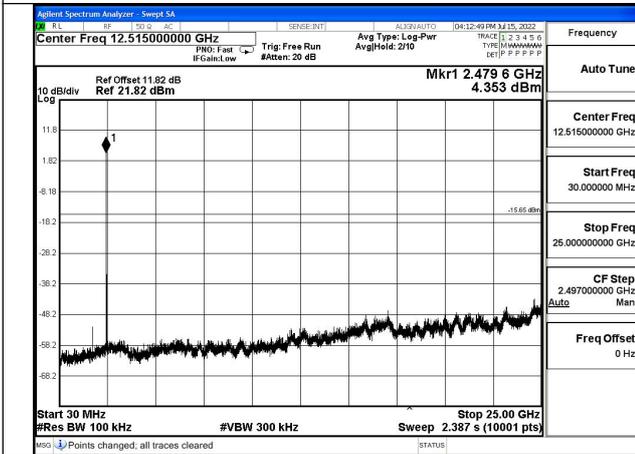
Test Mode: Coded 500K



CH0



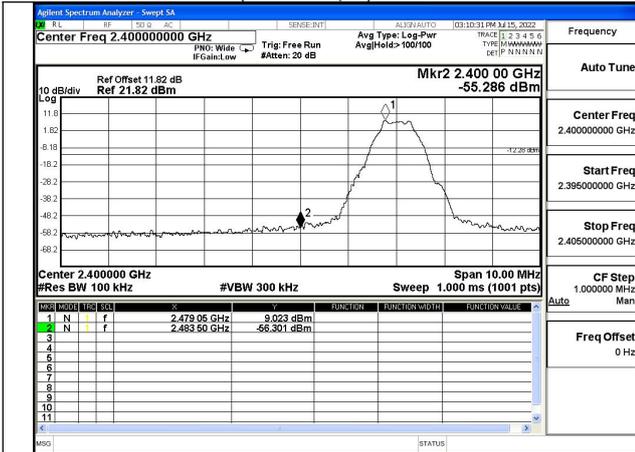
CH19



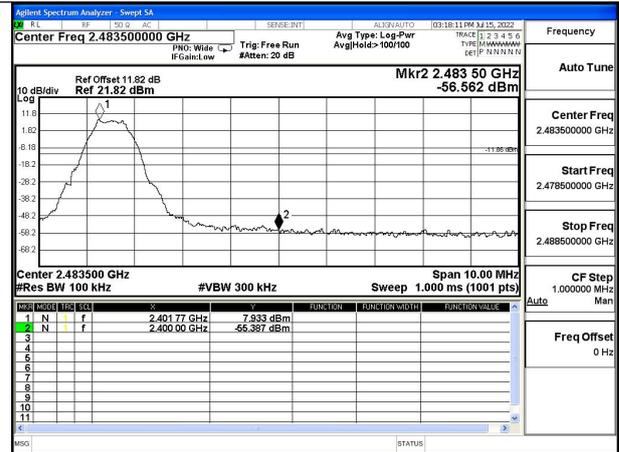
CH39

6 Band Edge measurement

Test Mode: GFSK (LE 1Mbps)

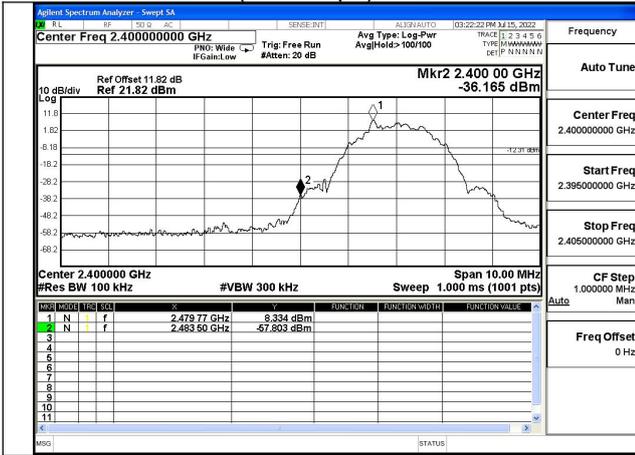


CH0

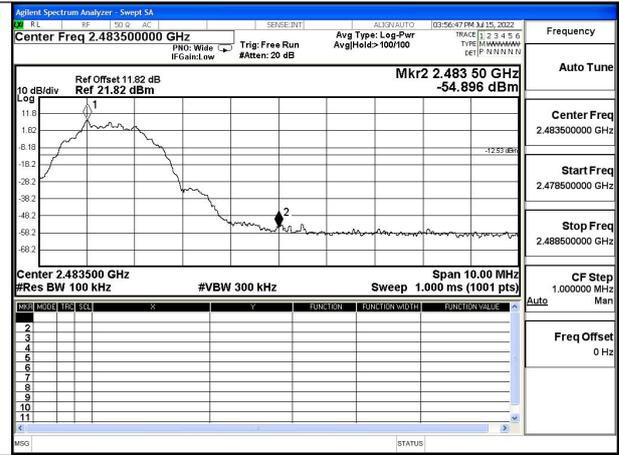


CH39

Test Mode: GFSK (LE 2Mbps)

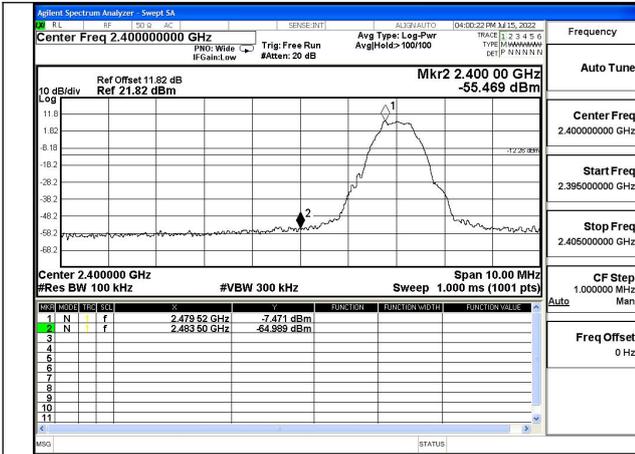


CH0

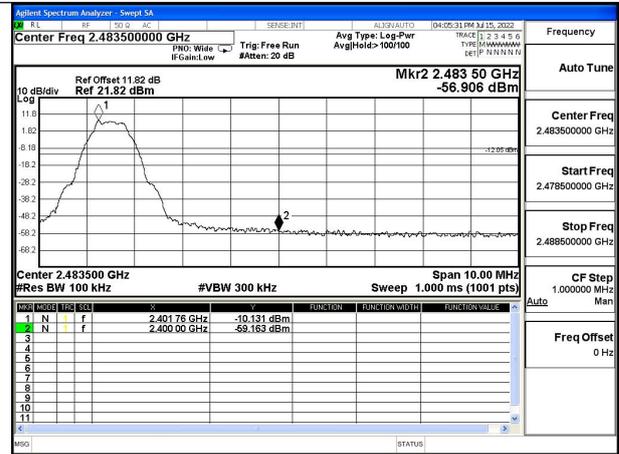


CH39

Test Mode: Coded 125K

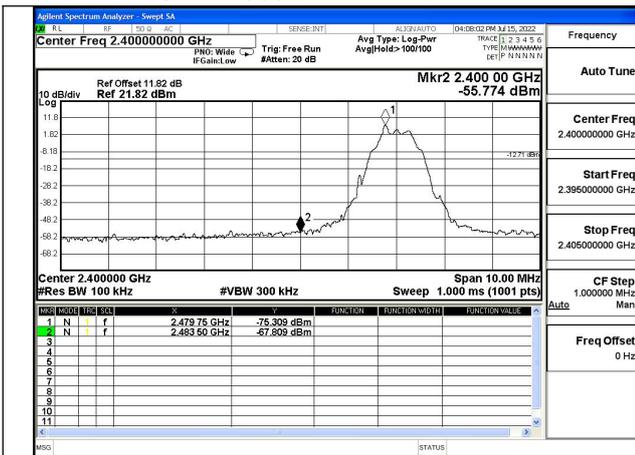


CH0

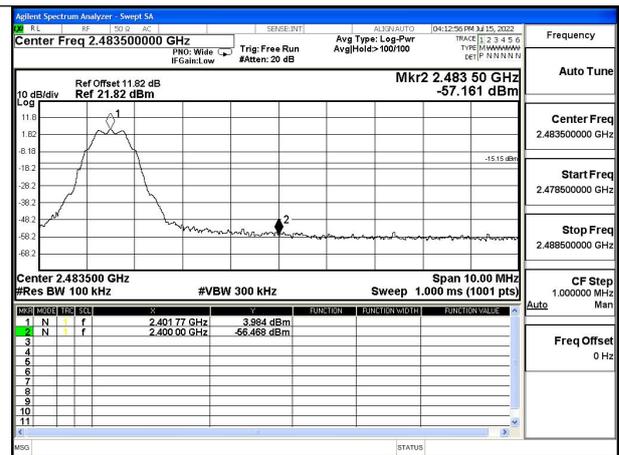


CH39

Test Mode: Coded 500K



CH0



CH39

APPENDIX B – TEST DATA OF RADIATED EMISSION

Worst case(LT-1Mbps)

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)

LE-1Mbps

Carrier Frequency (MHz): 2402

Channel No.: 0

Test Mode: GFSK (LE-1Mbps)

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	56.30	90.30	N/A	N/A	8.90	25.10
2390.0	16.70	50.70	-23.30	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	44.70	78.70	N/A	N/A	8.90	25.10
2390.0	-6.70	27.30	-26.70	54.00	8.90	25.10

Carrier Frequency (MHz): 2480

Channel No.: 39

Test Mode: GFSK (LE-1Mbps)

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	55.50	89.50	N/A	N/A	8.90	25.10
2483.5	3.20	37.20	-36.80	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	39.60	73.60	N/A	N/A	8.90	25.10
2483.5	-13.70	20.30	-33.70	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: $(11.56 \text{ dB}\mu\text{V}/\text{m}) = (35.36 \text{ dB}\mu\text{V}) + (-23.80 \text{ dB}/\text{m})$, the corresponding frequency is 148.437MHz.

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).

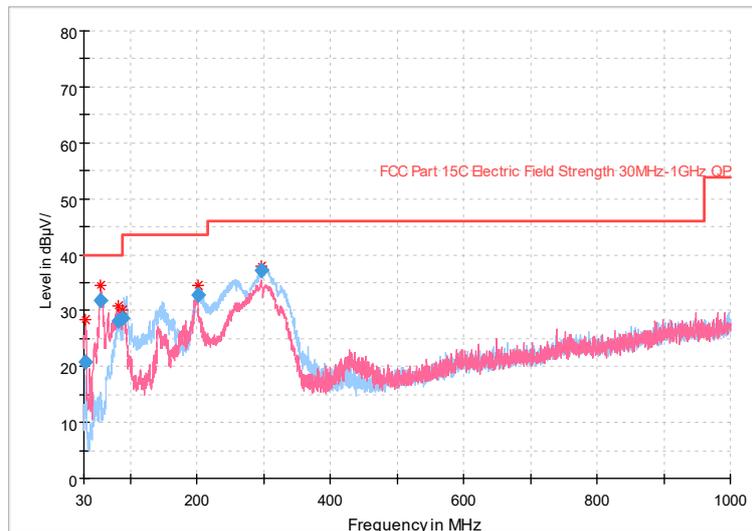
LE-1Mbps

Spurious Radiated Emissions from 30MHz to 1GHz:

GFSK:

CH Middle (No.19)

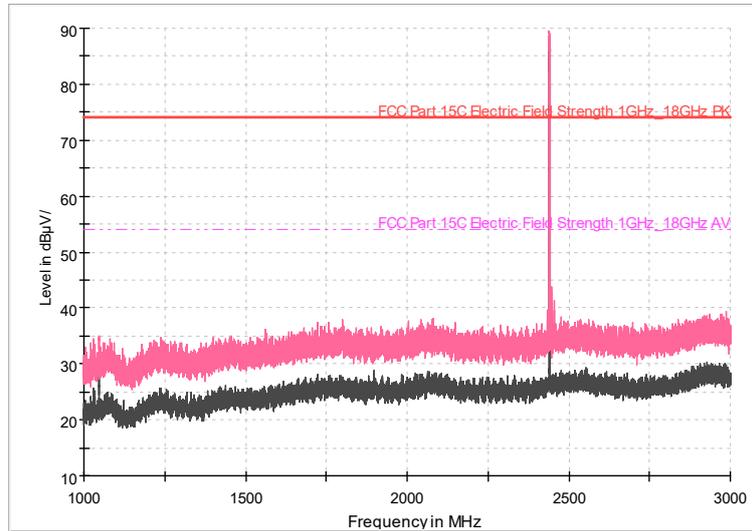
Full Spectrum



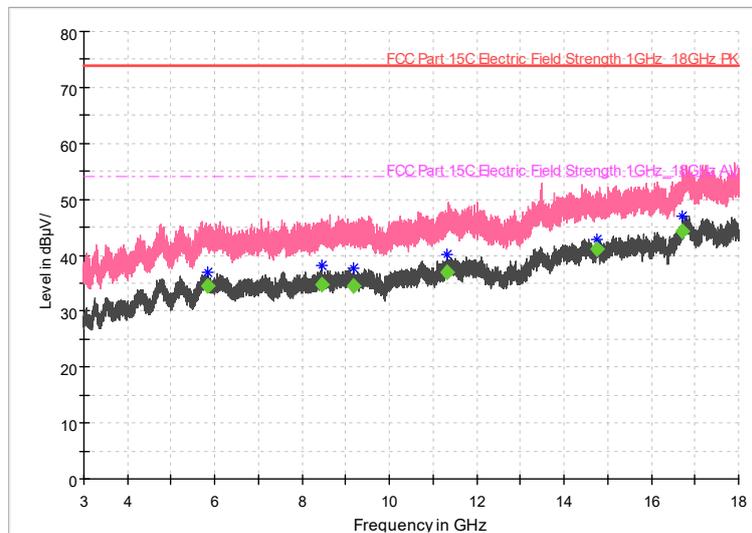
Frequency (MHz)	Reading (dBuV)	QuasiPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A_{Rpl} (dB)	Polarity
32.425	44.48	20.78	40	19.22	-23.7	Vertical
55.4625	51.75	31.75	40	8.25	-20	Vertical
81.41	54.14	28.04	40	11.96	-26.1	Vertical
87.9575	52.56	28.56	40	11.44	-24	Vertical
200.4775	52.68	32.68	43.5	10.82	-20	Vertical
295.5375	54.42	37.22	46	8.78	-17.2	Vertical

LE-1Mbps
Spurious Radiated Emissions from 1GHz to 18GHz:
GFSK:
CH Middle (No.19)

Full Spectrum

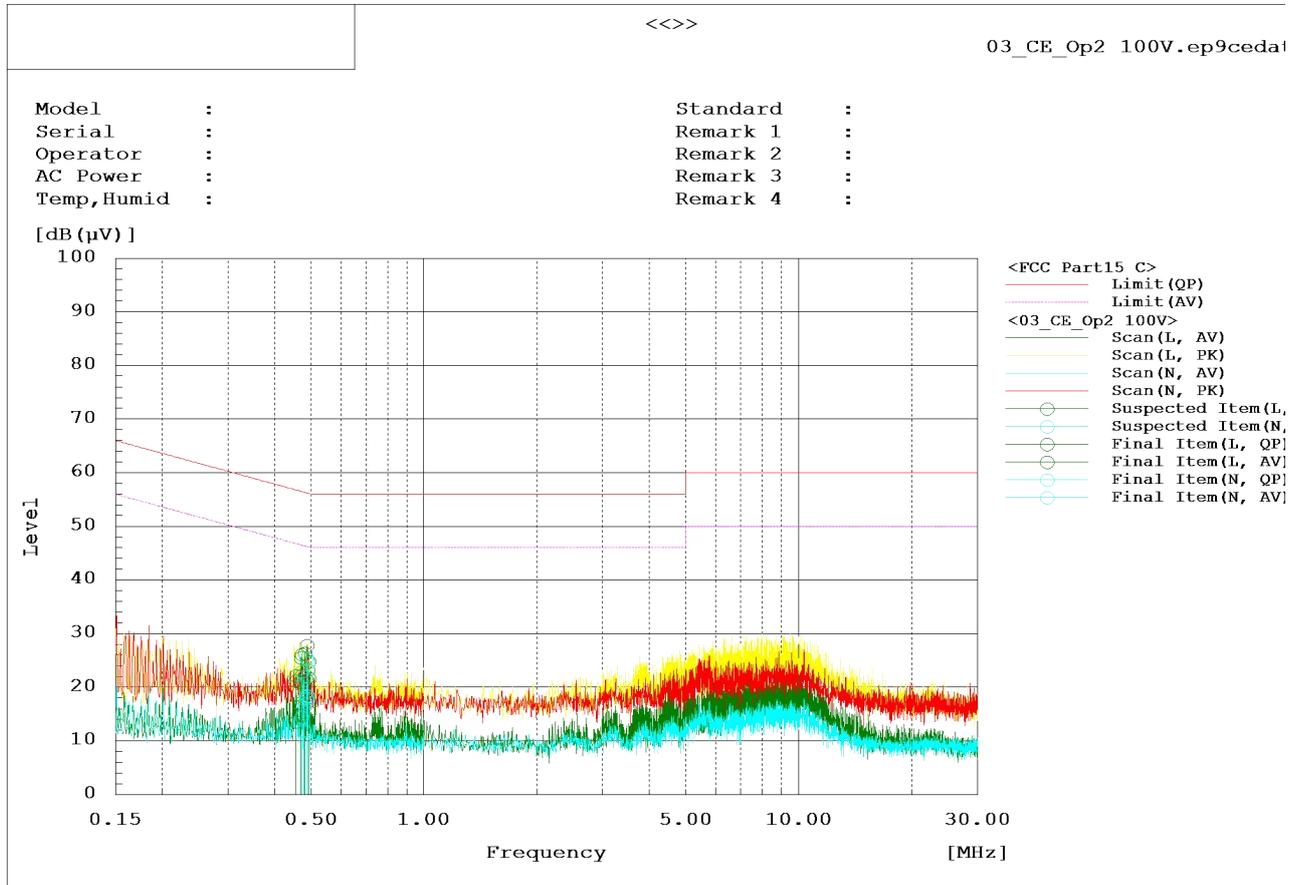


Full Spectrum



Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
5842	---	54.59	---	34.59	54	19.41	-20	Vertical
8448.5	---	55.12	---	34.82	54	19.18	-20.3	Vertical
9163.5	---	54.43	---	34.43	54	19.57	-20	Vertical
11326	---	53.94	---	36.84	54	17.16	-17.1	Vertical
14747.5	---	54.32	---	41.02	54	12.98	-13.3	Vertical
16722.5	---	56.95	---	44.25	54	9.75	-12.7	Vertical

AC Power line Conducted Emission 100V

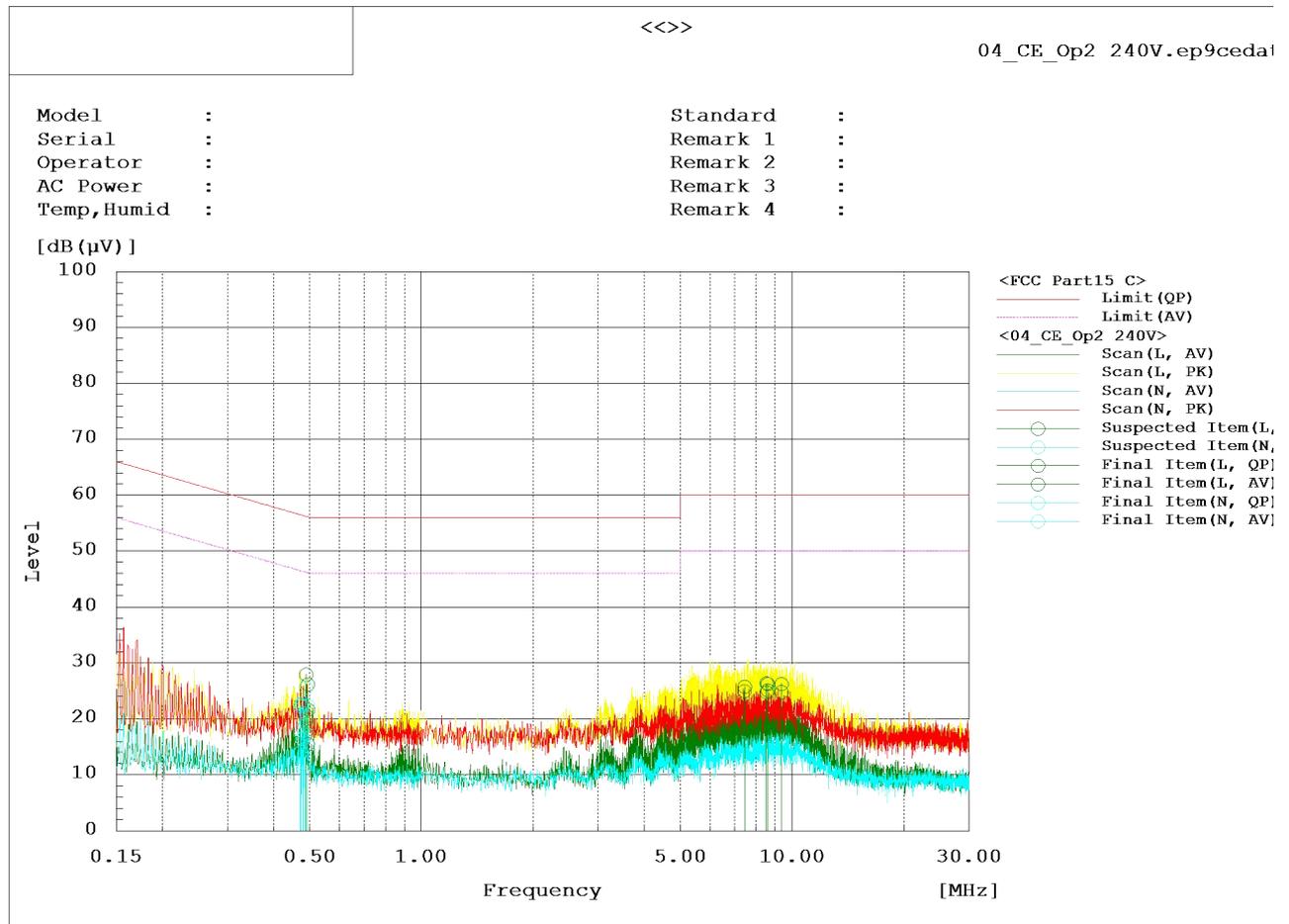


L+N Line

MEASUREMENT RESULT:

Range	Frequency MHz	Line	Reading dB(µV)			Factor dB	Level dB(µV)			Limit dB(µV)	Limit dB(µV)			Margin dB			Pass/Fail
			QP	AV	PK		QP	AV	PK		QP	AV	PK	QP	AV	PK	
			Band1	0.472	N		12.9	4.4			10	22.9	14.4		56.5	46.5	
Band1	0.478	N	12	2		10	22	12		56.4	46.4		34.4	34.4		Pass	
Band1	0.479	N	11.4	1.8		10	21.4	11.8		56.4	46.4		35	34.6		Pass	
Band1	0.488	N	15.3	7.9		10	25.3	17.9		56.2	46.2		30.9	28.3		Pass	
Band1	0.486	N	15.5	8.4		10	25.5	18.4		56.2	46.2		30.7	27.8		Pass	
Band1	0.491	N	14.6	8.3		10	24.6	18.3		56.1	46.1		31.5	27.8		Pass	
Band1	0.455	L	12	3.4		10.1	22.1	13.5		56.8	46.8		34.7	33.3		Pass	
Band1	0.469	L	15.5	7		10	25.5	17		56.5	46.5		31	29.5		Pass	
Band1	0.472	L	16.1	6.6		10	26.1	16.6		56.5	46.5		30.4	29.9		Pass	
Band1	0.481	L	16.3	3.1		10	26.3	13.1		56.3	46.3		30	33.2		Pass	
Band1	0.487	L	17.8	9.6		10	27.8	19.6		56.2	46.2		28.4	26.6		Pass	
Band1	0.494	L	14.7	5.4		10	24.7	15.4		56.1	46.1		31.4	30.7		Pass	

240V



L+N Line

MEASUREMENT RESULT:

Range	Frequency MHz	Line	Reading dB(μV)			Factor dB	Level dB(μV)			Limit dB(μV)	Limit dB(μV)			Margin dB			Pass/Fail
			QP	AV	PK		QP	AV	PK		QP	AV	PK	QP	AV	PK	
Band1	0.488	L	17.9	10		10	27.9	20		56.2	46.2		28.3	26.2		Pass	
Band1	0.493	L	16.2	5.5		10	26.2	15.5		56.1	46.1		29.9	30.6		Pass	
Band1	7.441	L	15.8	7.7		10	25.8	17.7		60	50		34.2	32.3		Pass	
Band1	8.534	L	16.4	8.5		10	26.4	18.5		60	50		33.6	31.5		Pass	
Band1	8.594	L	16.2	8.4		10	26.2	18.4		60	50		33.8	31.6		Pass	
Band1	9.346	L	16.2	8.5		10	26.2	18.5		60	50		33.8	31.5		Pass	
Band1	0.472	N	12.3	4.1		10	22.3	14.1		56.5	46.5		34.2	32.4		Pass	
Band1	0.473	N	12.6	4		10	22.6	14		56.5	46.5		33.9	32.5		Pass	
Band1	0.479	N	12.8	2		10	22.8	12		56.4	46.4		33.6	34.4		Pass	
Band1	0.48	N	12.3	1.2		10	22.3	11.2		56.3	46.3		34	35.1		Pass	
Band1	0.487	N	15.5	8.9		10	25.5	18.9		56.2	46.2		30.7	27.3		Pass	
Band1	0.493	N	12.4	5.1		10	22.4	15.1		56.1	46.1		33.7	31		Pass	

---End of Test Report---