

Band Edge measurement

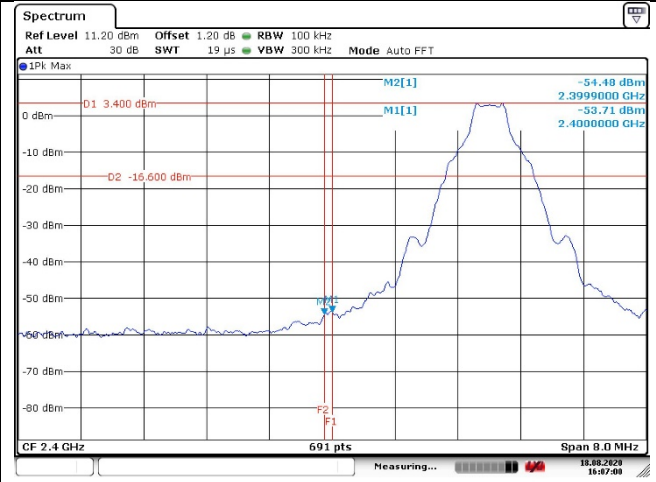
Offset 1.2dB = Temporary antenna connector loss 0.2dB+ Cable loss 1dB

GFSK

CH0 (Hopping off)

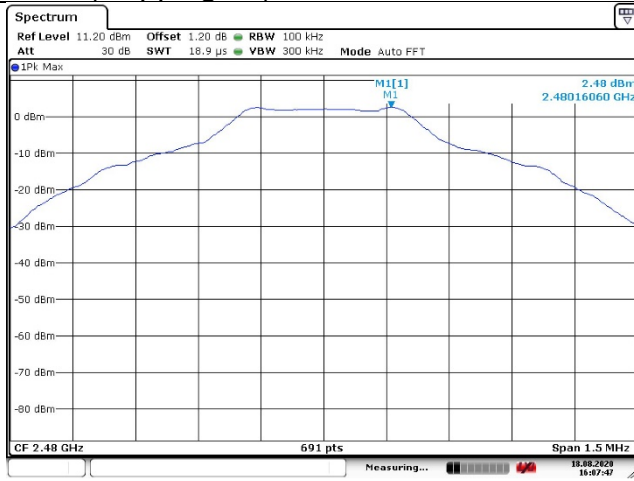


Date: 10_AUG_2020 16:06:05

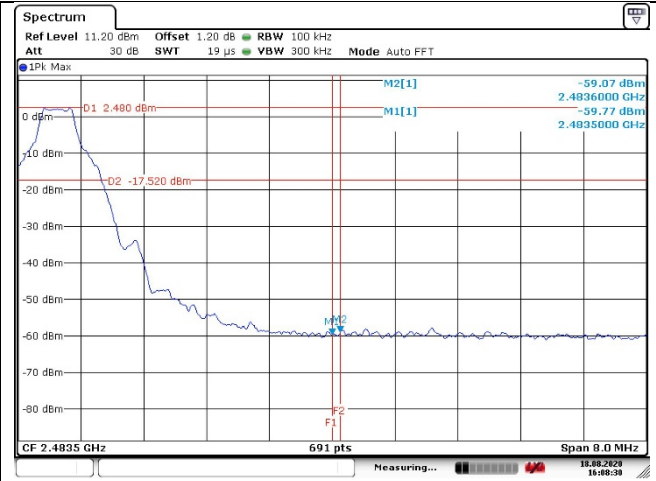


Date: 10_AUG_2020 16:07:00

CH78 (Hopping off)

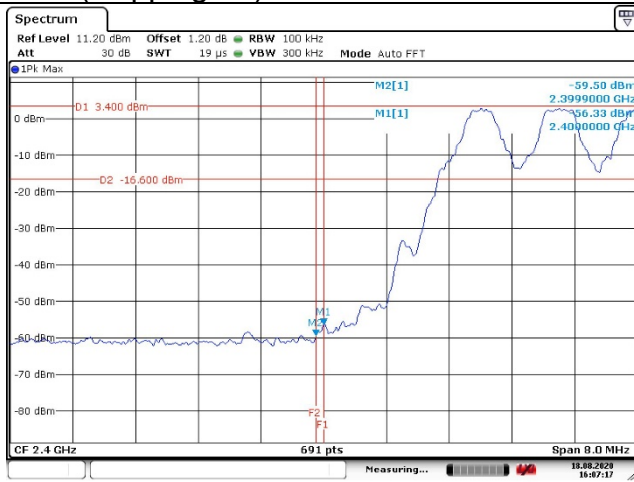


Date: 10_AUG_2020 16:07:46



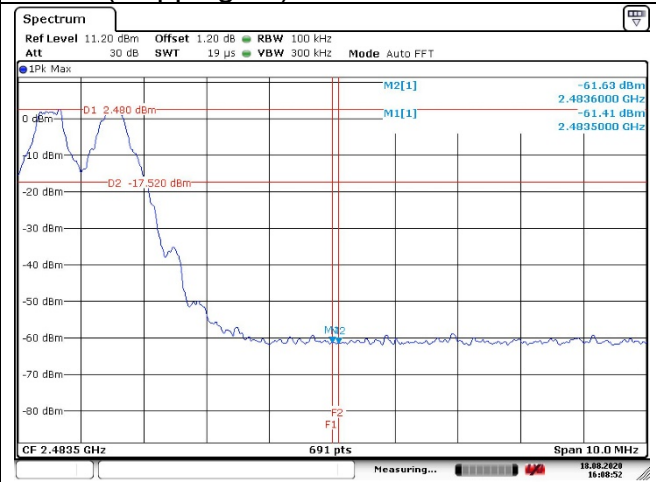
Date: 10_AUG_2020 16:08:30

CH0 (Hopping on)



Date: 10_AUG_2020 16:07:16

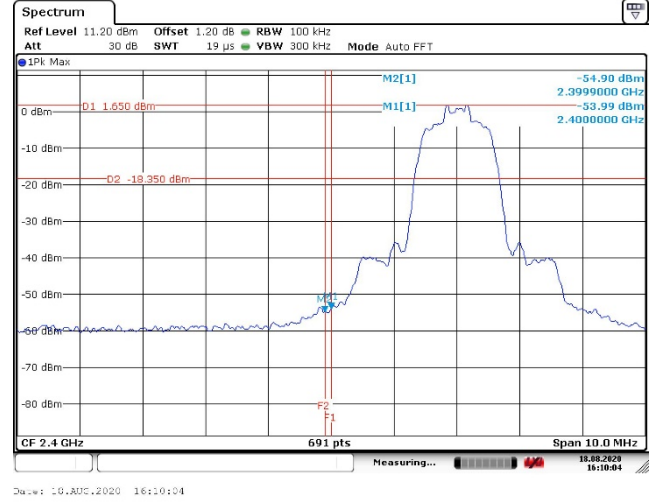
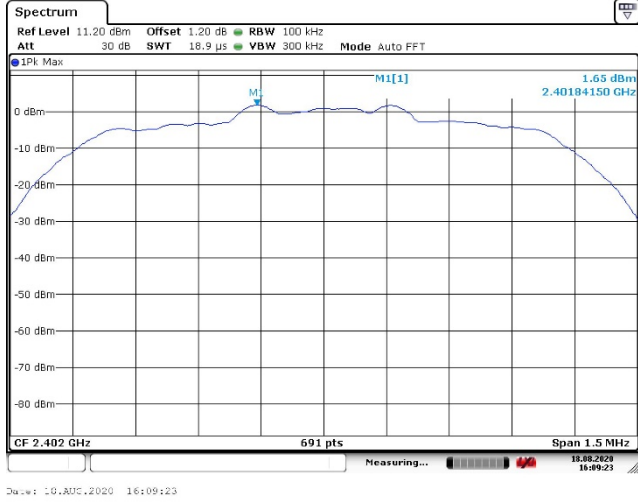
CH78 (Hopping on)



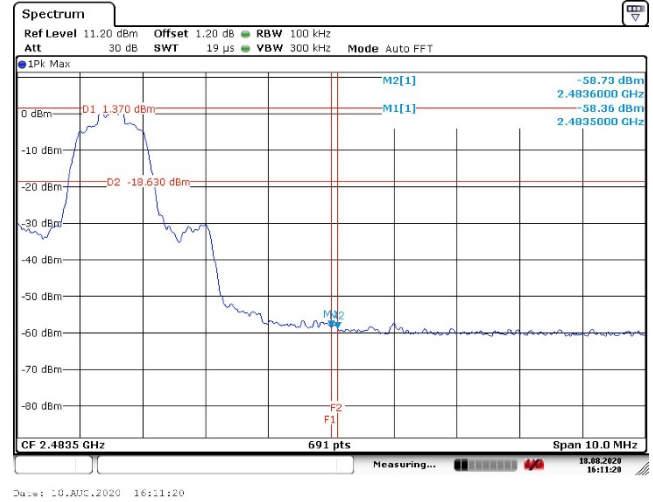
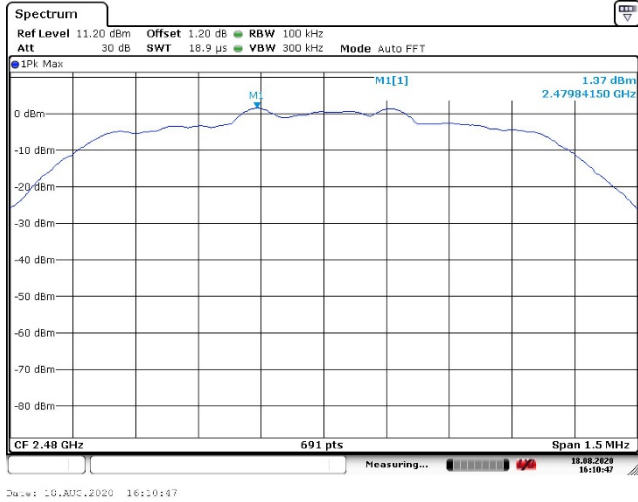
Date: 10_AUG_2020 16:08:52

π /4DQPSK

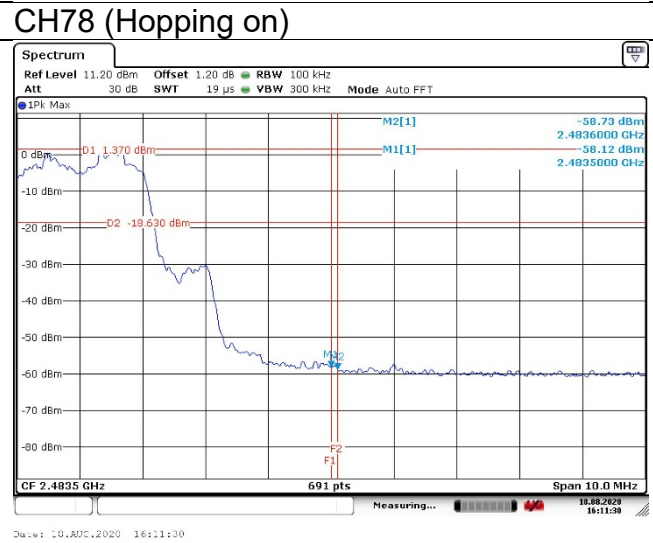
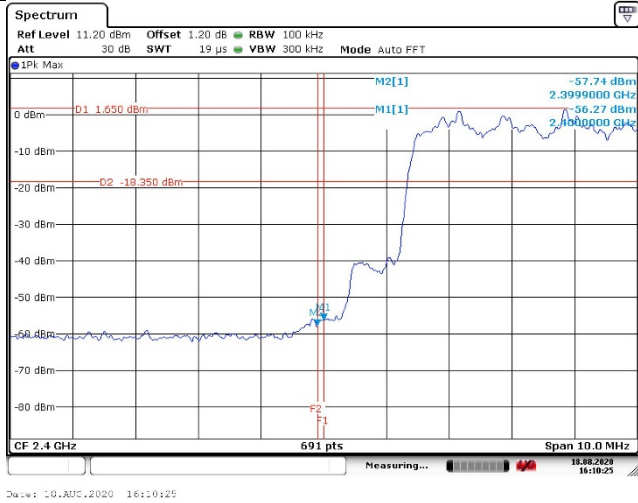
CH0 (Hopping off)



CH78(Hopping off)

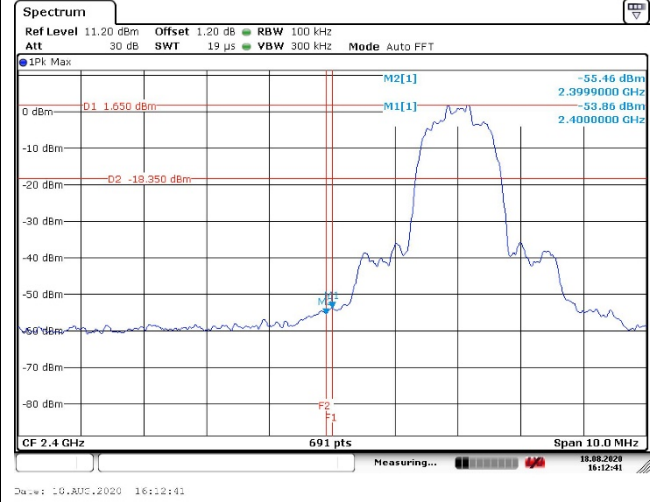
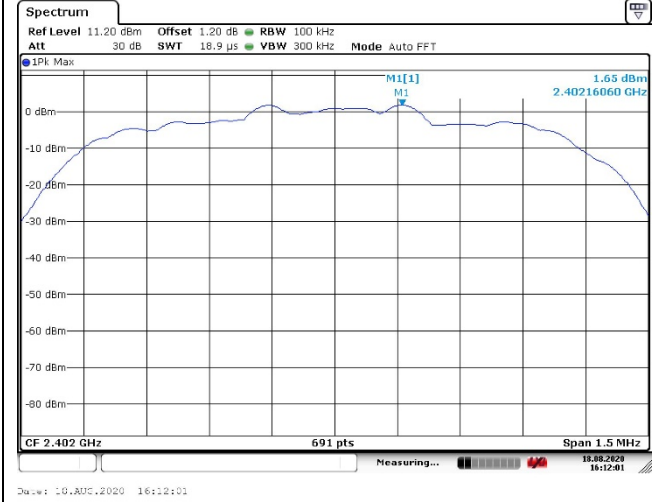


CH0 (Hopping on)

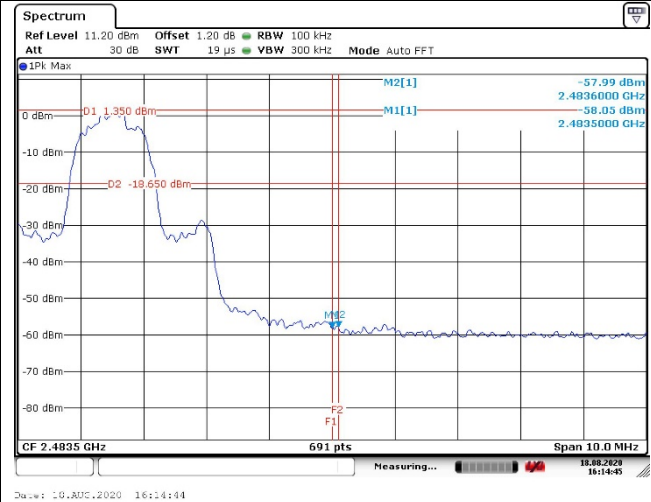
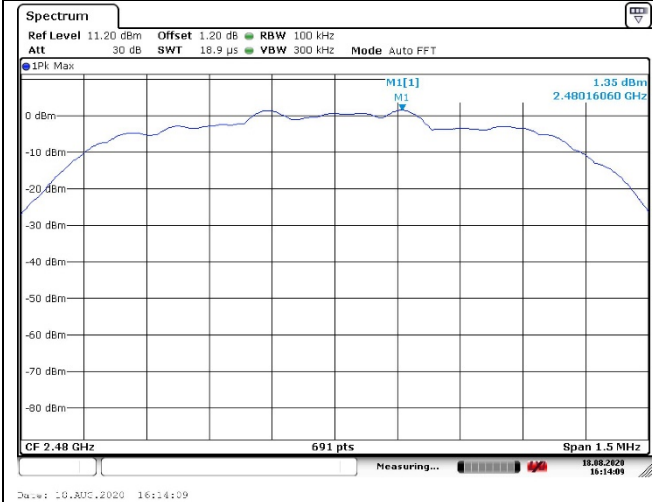


8DPSK

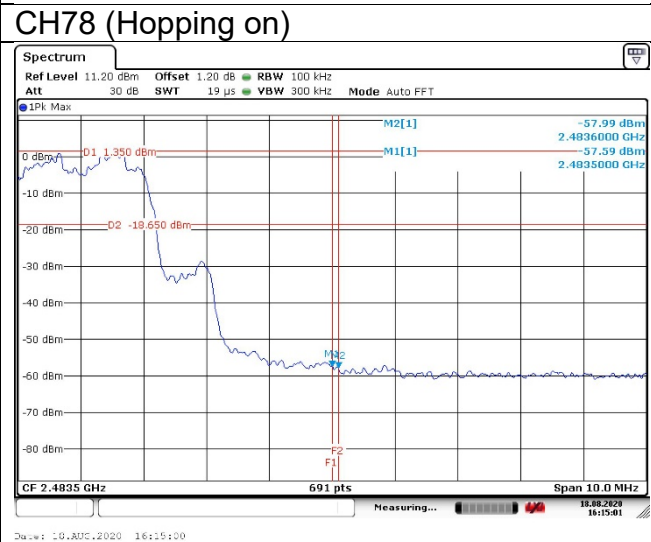
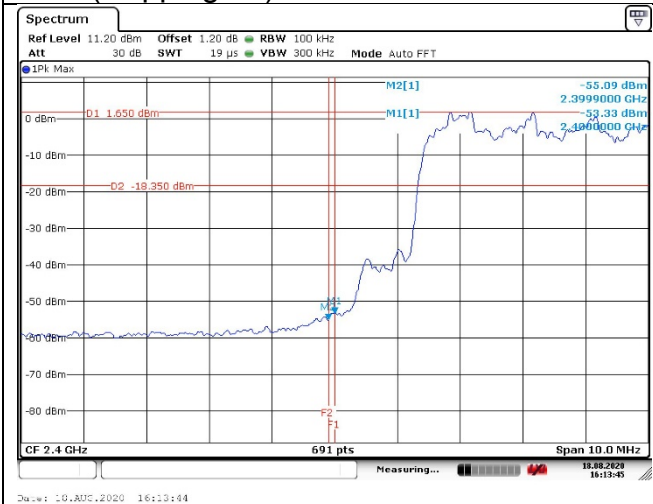
CH0 (Hopping off)



CH78(Hopping off)



CH0 (Hopping on)



APPENDIX B – TEST DATA OF RADIATED EMISSION

Radiated Emission Band Edge

The worst case attitude: The mobile lay down.

The measurement results are obtained as described below:

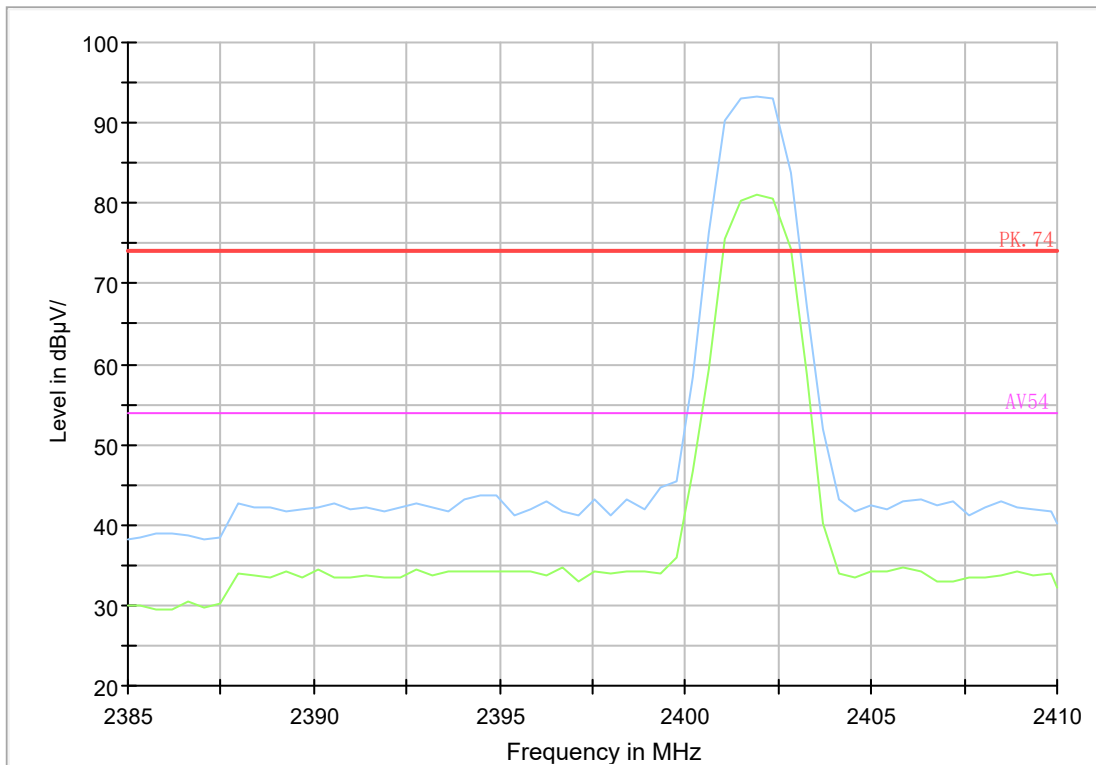
Measure Level = Reading Level + cable loss + antenna factor

For Average Detector, Reading Level including Duty cycle Correction Factor

Sample calculation: $(93.68 \text{ dBuV/m}) = (59.68 \text{ dB}\mu\text{V}) + (8.90 \text{ dB}) + (25.10 \text{ dB})$, the corresponding frequency is 2402MHz.

Full Spectrum

Full Spectrum



Test Mode: GFSK 2402MHz

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: GFSK

Polarity: Vertical

Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2402	93.68	59.68	N/A	N/A	8.90	25.10
2	2390	41.39	7.39	-32.61	74.00	8.90	25.10

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: GFSK

Polarity: Horizontal

Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2402	89.84	55.84	N/A	N/A	8.90	25.10
2	2390	38.56	4.56	-35.44	74.00	8.90	25.10

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: GFSK

Polarity: Vertical

Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2402	80.76	46.76	N/A	N/A	8.90	25.10
2	2390	30.43	-3.57	-23.57	54.00	8.90	25.10

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: GFSK

Polarity: Horizontal

Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2402	78.30	44.30	N/A	N/A	8.90	25.10
2	2390	29.92	-4.08	-24.08	54.00	8.90	25.10

Carrier frequency (MHz): 2480

Channel No.:78

Test Mode: GFSK

Polarity: Vertical

Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2480	92.80	58.80	N/A	N/A	8.90	25.10
2	2483.5	42.91	8.91	-31.09	74.00	8.90	25.10

Carrier frequency (MHz): 2480

Channel No.:78

Test Mode: GFSK

Polarity: Horizontal

Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2480	88.34	54.34	N/A	N/A	8.90	25.10
2	2483.5	36.31	2.31	-37.69	74.00	8.90	25.10

Carrier frequency (MHz): 2480

Channel No.:78

Test Mode: GFSK

Polarity: Vertical

Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2480	80.57	46.57	N/A	N/A	8.90	25.10
2	2483.5	29.72	-4.28	-24.28	54.00	8.90	25.10

Carrier frequency (MHz): 2480

Channel No.:78

Test Mode: GFSK

Polarity: Horizontal

Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2480	76.45	42.45	N/A	N/A	8.90	25.10
2	2483.5	27.73	-6.27	-26.27	54.00	8.90	25.10

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: $\pi/4$ DQPSK

Polarity: Vertical

Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2402	93.18	59.18	N/A	N/A	8.90	25.10
2	2390	42.35	8.35	-31.65	74.00	8.90	25.10

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: $\pi/4$ DQPSK

Polarity: Horizontal

Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2402	89.89	55.89	N/A	N/A	8.90	25.10
2	2390	37.39	3.39	-36.61	74.00	8.90	25.10

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: $\pi/4$ DQPSK

Polarity: Vertical

Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2402	80.31	46.31	N/A	N/A	8.90	25.10
2	2390	29.33	-4.67	-24.67	54.00	8.90	25.10

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: $\pi/4$ DQPSK

Polarity: Horizontal

Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2402	78.80	44.80	N/A	N/A	8.90	25.10
2	2390	29.92	-4.08	-24.08	54.00	8.90	25.10

Carrier frequency (MHz): 2480

Channel No.:78

Test Mode: $\pi/4$ DQPSK

Polarity: Vertical

Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2480	92.88	58.88	N/A	N/A	8.90	25.10
2	2483.5	40.11	6.11	-33.89	74.00	8.90	25.10

Carrier frequency (MHz): 2480

Channel No.:78

Test Mode: $\pi/4$ DQPSK

Polarity: Horizontal

Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2480	88.93	54.93	N/A	N/A	8.90	25.10
2	2483.5	38.70	4.70	-35.30	74.00	8.90	25.10

Carrier frequency (MHz): 2480

Channel No.:78

Test Mode: $\pi/4$ DQPSK

Polarity: Vertical

Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2480	80.69	46.69	N/A	N/A	8.90	25.10
2	2483.5	30.47	-3.53	-23.53	54.00	8.90	25.10

Carrier frequency (MHz): 2480

Channel No.:78

Test Mode: $\pi/4$ DQPSK

Polarity: Horizontal

Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2480	78.16	44.16	N/A	N/A	8.90	25.10
2	2483.5	28.57	-5.43	-25.43	54.00	8.90	25.10

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: 8DPSK

Polarity: Vertical

Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2402	93.59	59.59	N/A	N/A	8.90	25.10
2	2390	42.21	8.21	-31.79	74.00	8.90	25.10

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: 8DPSK

Polarity: Horizontal

Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2402	90.14	56.14	N/A	N/A	8.90	25.10
2	2390	39.13	5.13	-34.87	74.00	8.90	25.10

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: 8DPSK

Polarity: Vertical

Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2402	83.03	49.03	N/A	N/A	8.90	25.10
2	2390	30.29	-3.71	-23.71	54.00	8.90	25.10

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: 8DPSK

Polarity: Horizontal

Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2402	80.31	46.31	N/A	N/A	8.90	25.10
2	2390	28.70	-5.30	-25.30	54.00	8.90	25.10

Carrier frequency (MHz): 2480

Channel No.:78

Test Mode: 8DPSK

Polarity: Vertical

Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2480	91.87	57.87	N/A	N/A	8.90	25.10
2	2483.5	40.59	6.59	-33.41	74.00	8.90	25.10

Carrier frequency (MHz): 2480

Channel No.:78

Test Mode: 8DPSK

Polarity: Horizontal

Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2480	88.59	54.59	N/A	N/A	8.90	25.10
2	2483.5	35.58	1.58	-38.42	74.00	8.90	25.10

Carrier frequency (MHz): 2480

Channel No.:78

Test Mode: 8DPSK

Polarity: Vertical

Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2480	79.30	45.30	N/A	N/A	8.90	25.10
2	2483.5	28.66	-5.34	-25.34	54.00	8.90	25.10

Carrier frequency (MHz): 2480

Channel No.:78

Test Mode: 8DPSK

Polarity: Horizontal

Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2480	76.35	42.35	N/A	N/A	8.90	25.10
2	2483.5	28.43	-5.57	-25.57	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:

$$\text{Result} = P_{\text{mea}} + A_{Rpl}$$

Sample calculation: (33.86 dB μ V/m) = (44.34 dB μ V) + (-18.0 dB/m), the corresponding frequency is 41.177500MHz.

The worst case attitude: The mobile lay down.

For GFSK

Channel No.:0

Frequency (MHz)	Result (dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity	Limit (dB μ V/m)
41.177500	33.86	-18.0	51.86	Vertical	40.00
42.649500	28.85	-17.8	46.65	Vertical	40.00
68.135000	26.62	-21.1	47.72	Vertical	40.00
87.926500	14.41	-21.3	35.71	Vertical	40.00
146.245500	17.58	-21.7	39.28	Horizon	43.50
862.052000	16.74	-2.1	18.84	Vertical	46.00

For $\pi/4$ DQPSK

Channel No.:0

Frequency (MHz)	Result (dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity	Limit (dB μ V/m)
41.120500	33.86	-18.0	51.86	Vertical	40.00
42.455500	29.35	-17.8	47.15	Vertical	40.00
68.029500	26.47	-21.0	47.47	Vertical	40.00
88.120500	16.08	-21.2	37.28	Vertical	43.50
151.430000	16.57	-21.5	38.07	Horizon	43.50
920.229000	17.48	-1.2	18.68	Vertical	46.00

For 8DPSK

Channel No.:0

Frequency (MHz)	Result (dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity	Limit (dB μ V/m)
41.135000	33.86	-18.0	51.86	Vertical	40.00
42.601000	29.08	-17.8	46.88	Vertical	40.00
66.044500	20.78	-20.4	41.18	Vertical	40.00
87.926500	16.47	-21.3	37.77	Vertical	40.00
144.614500	17.38	-21.7	39.08	Horizon	43.50
943.095500	17.51	-0.9	18.41	Vertical	46.00

For GFSK

Channel No.:39

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
41.040500	33.85	-18.0	51.85	Vertical	40.00
42.649500	28.92	-17.8	46.72	Vertical	40.00
68.645500	25.06	-21.2	46.26	Vertical	40.00
87.869500	16.17	-21.3	37.47	Vertical	40.00
145.427000	17.62	-21.7	39.32	Horizon	43.50
936.382000	17.58	-1.0	18.58	Vertical	46.00

For $\pi/4$ DQPSK

Channel No.:39

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
41.112000	33.76	-18.0	51.76	Vertical	40.00
42.649500	28.86	-17.8	46.66	Vertical	40.00
67.354000	25.70	-20.8	46.50	Vertical	40.00
87.604000	16.18	-21.4	37.58	Vertical	40.00
152.137000	17.46	-21.5	38.96	Horizon	43.50
931.030000	17.51	-1.1	18.61	Vertical	46.00

For 8DPSK

Channel No.:39

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
41.067000	33.80	-18.0	51.80	Vertical	40.00
42.455500	29.35	-17.8	47.15	Vertical	40.00
68.888000	23.68	-21.3	44.98	Vertical	40.00
87.926500	17.08	-21.3	38.38	Vertical	40.00
145.279000	15.11	-21.7	36.81	Horizon	43.50
942.265000	17.56	-0.9	18.46	Vertical	46.00

For GFSK

Channel No.:78

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
40.886500	33.37	-18.0	51.37	Vertical	40.00
42.649500	27.06	-17.8	44.86	Vertical	40.00
66.600000	18.73	-20.6	39.33	Vertical	40.00
87.657500	16.52	-21.3	37.82	Vertical	40.00
145.618500	14.04	-21.7	35.74	Horizon	43.50
952.461000	17.57	-0.8	18.37	Vertical	46.00

For $\pi/4$ DQPSK

Channel No.:78

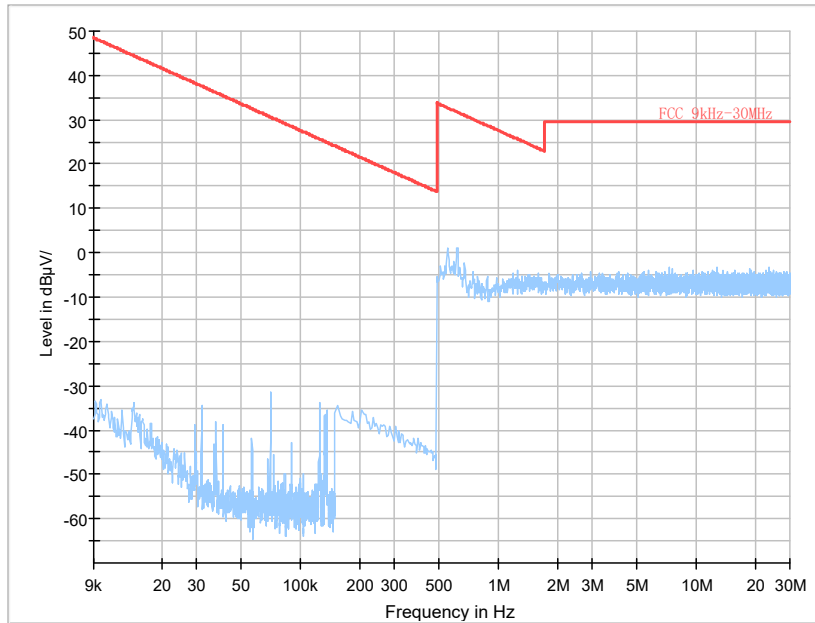
Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
41.118000	32.50	-18.0	50.50	Vertical	40.00
51.269000	28.44	-17.3	45.74	Vertical	40.00
66.829000	20.68	-20.6	41.28	Vertical	40.00
87.138500	15.04	-21.5	36.54	Vertical	40.00
144.742000	12.50	-21.7	34.20	Horizon	43.50
942.807000	17.61	-0.9	18.51	Vertical	46.00

For 8DPSK

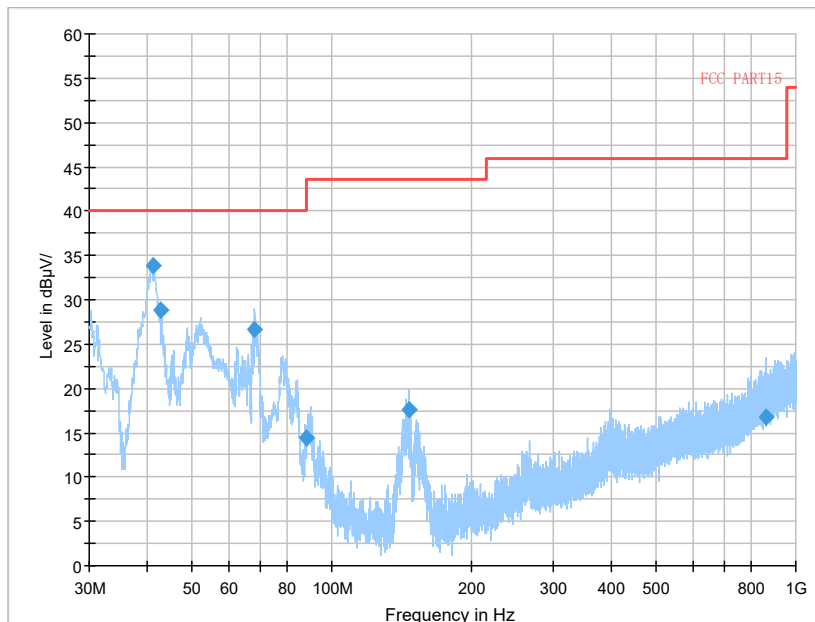
Channel No.:78

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
40.921500	34.63	-18.0	52.63	Vertical	40.00
42.455500	30.45	-17.8	48.25	Vertical	40.00
65.887000	23.84	-20.3	44.14	Vertical	40.00
87.395500	15.52	-21.4	36.92	Vertical	40.00
147.021500	13.28	-21.7	34.98	Horizon	43.50
954.207000	17.63	-0.8	18.43	Vertical	46.00

Carrier frequency (MHz): 2402
Channel No.:0

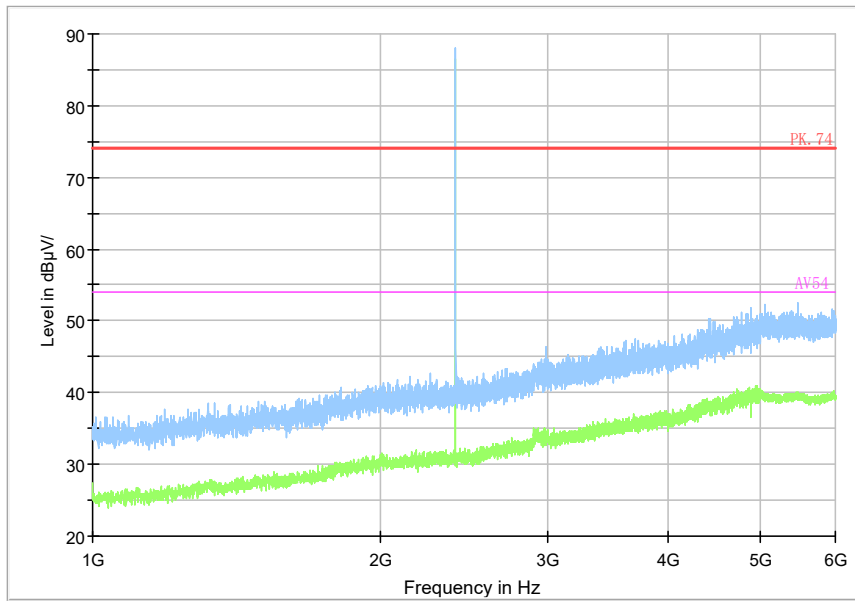


Frequency Range: 9kHz-30MHz
Detector: QP mode
Modulation type: GFSK

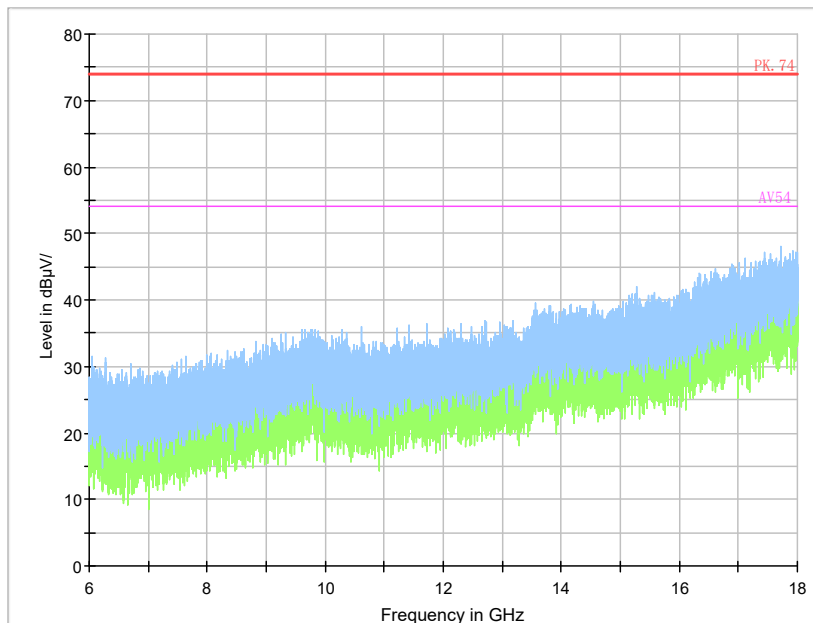


Frequency Range: 30MHz-1000MHz
Detector: QP mode
Modulation type: GFSK

Full Spectrum

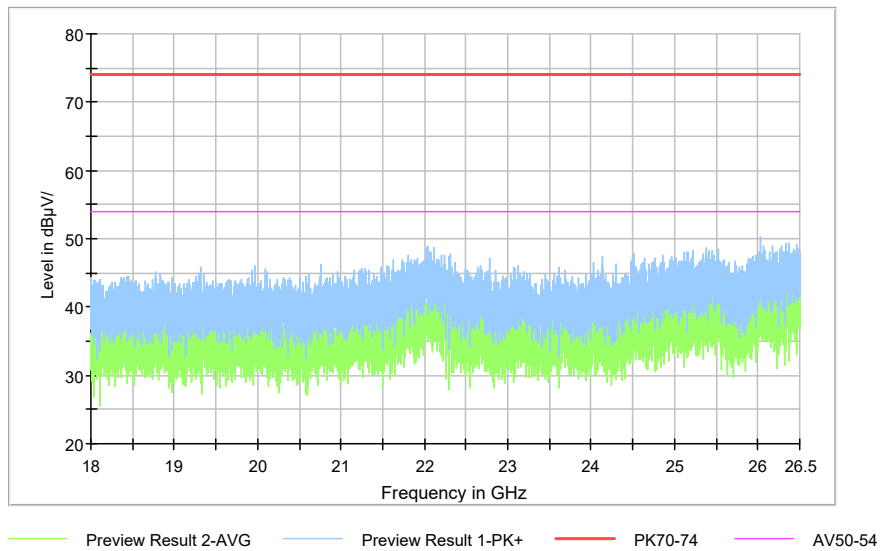


Frequency Range: 1GHz-6GHz
Detector: Av mode and PK mode
Modulation type: GFSK



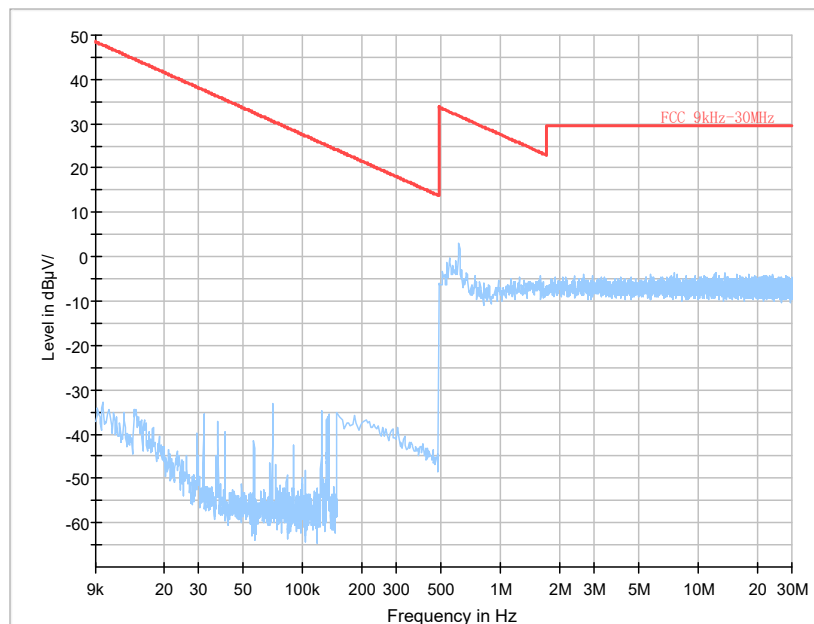
Frequency Range: 6GHz- 18GHz
Detector: Av mode and PK mode
Modulation type: GFSK

Full Spectrum

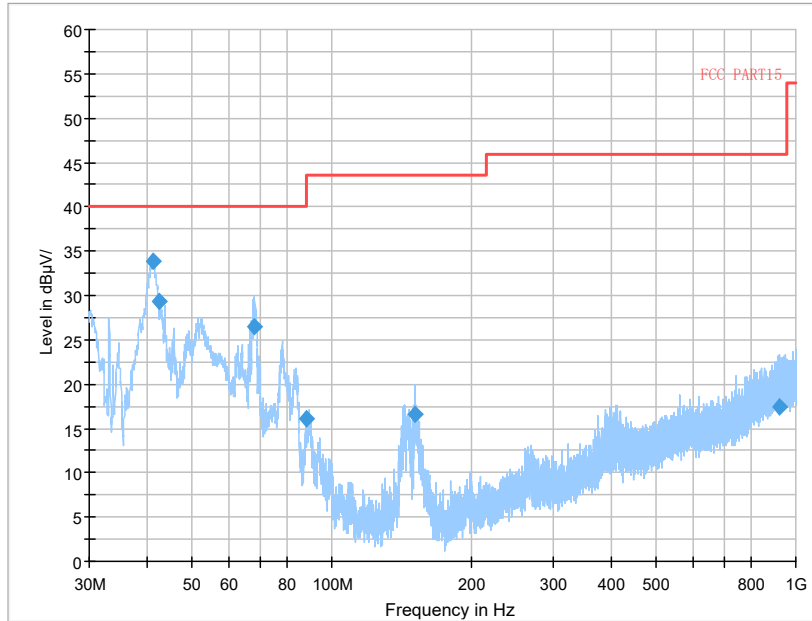


Comment

Frequency Range: 18GHz-25GHz
 Detector: Av mode and PK mode
 Modulation type: GFSK

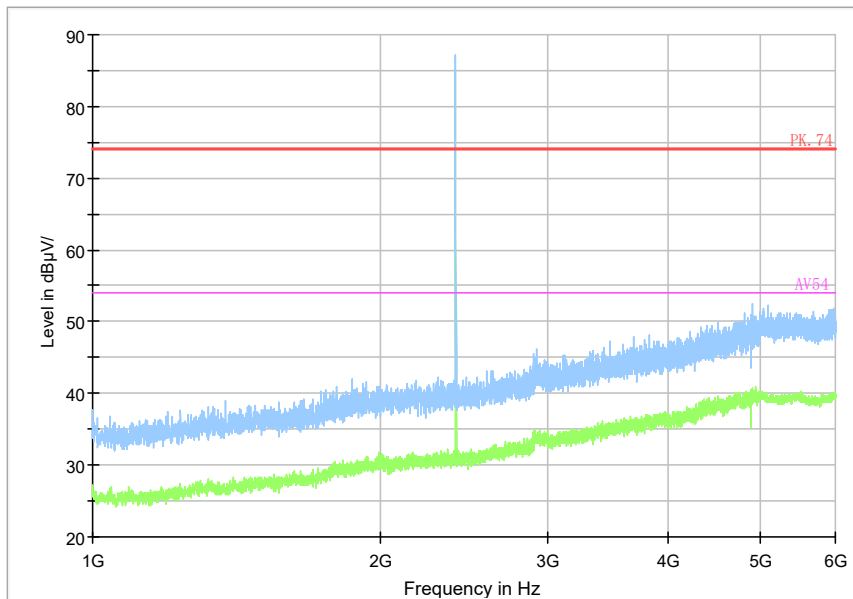


Frequency Range: 9kHz-30MHz
 Detector: QP mode
 Modulation type: $\pi/4$ DQPSK

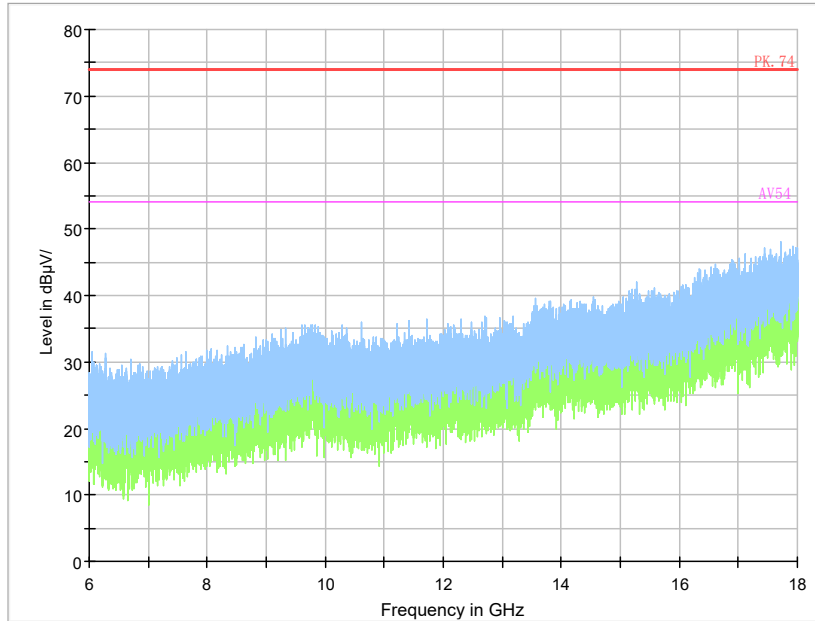


Frequency Range: 30MHz-1000 MHz
Detector: QP mode
Modulation type: $\pi/4$ DQPSK

Full Spectrum

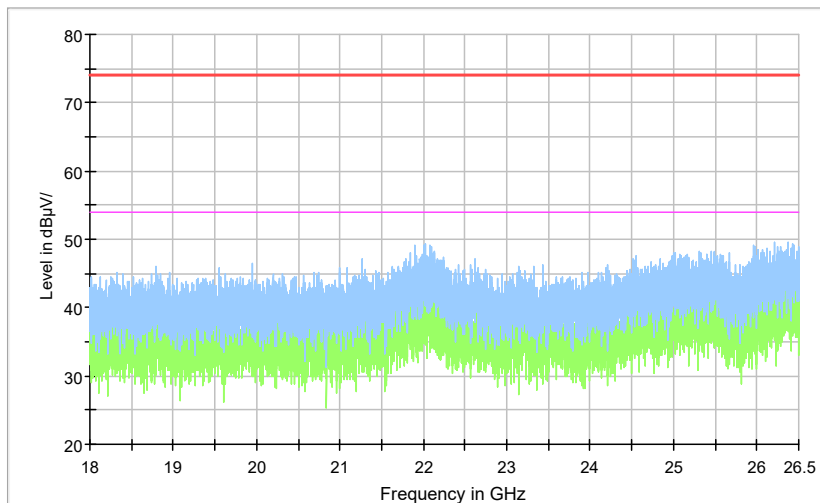


Frequency Range: 1GHz-6GHz
Detector: Av mode and PK mode
Modulation type: $\pi/4$ DQPSK



Frequency Range: 6GHz-18GHz
Detector: Av mode and PK mode
Modulation type: $\pi/4$ DQPSK

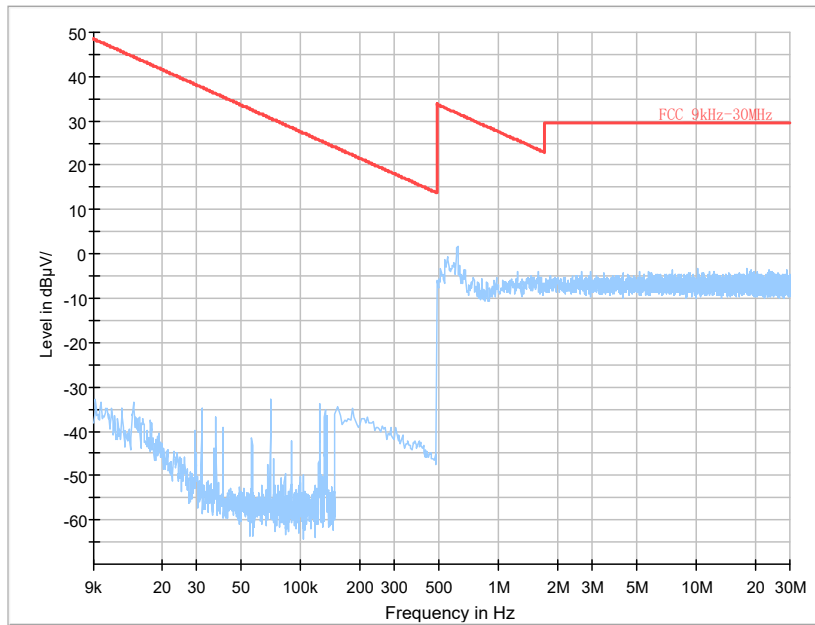
Full Spectrum



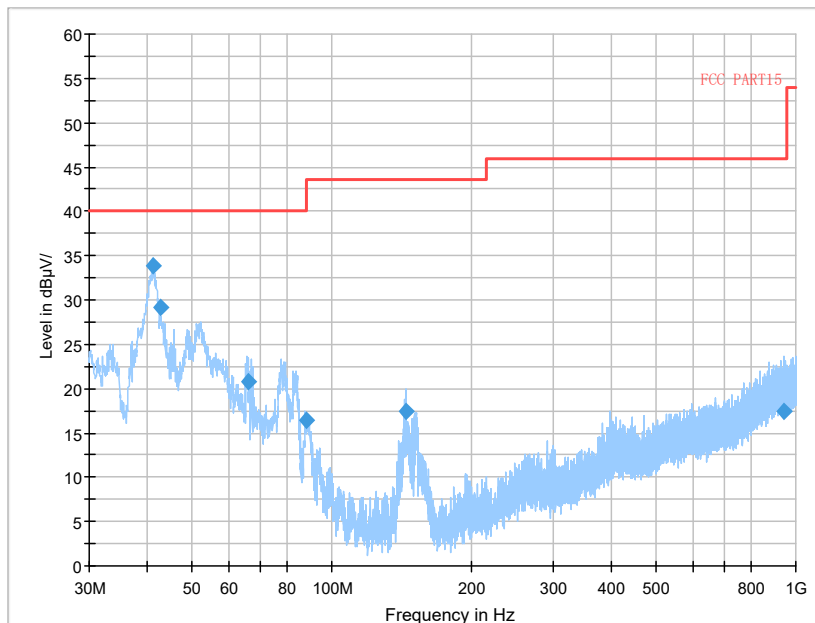
Preview Result 2-AVG Preview Result 1-PK+ PK70-74 AV50-54

Comment

Frequency Range: 18GHz-25GHz
Detector: Av mode and PK mode
Modulation type: $\pi/4$ DQPSK

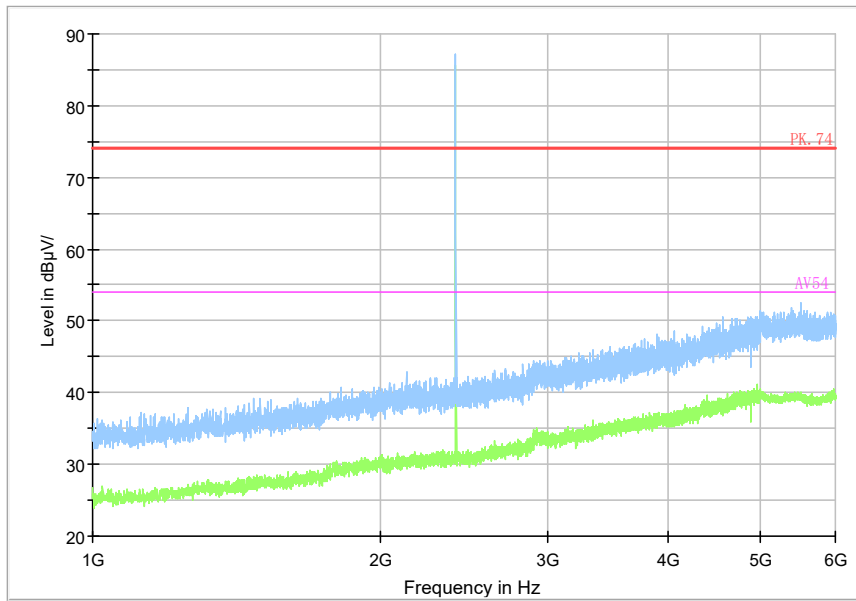


Frequency Range: 9kHz-30MHz
Detector: QP mode
Modulation type: 8DPSK

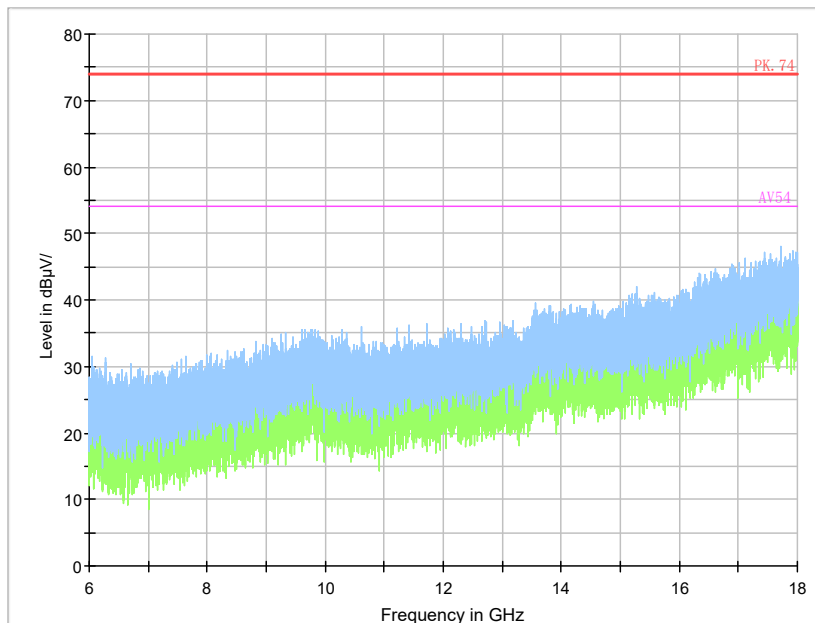


Frequency Range: 30MHz-1000 MHz
Detector: QP mode
Modulation type: 8DPSK

Full Spectrum

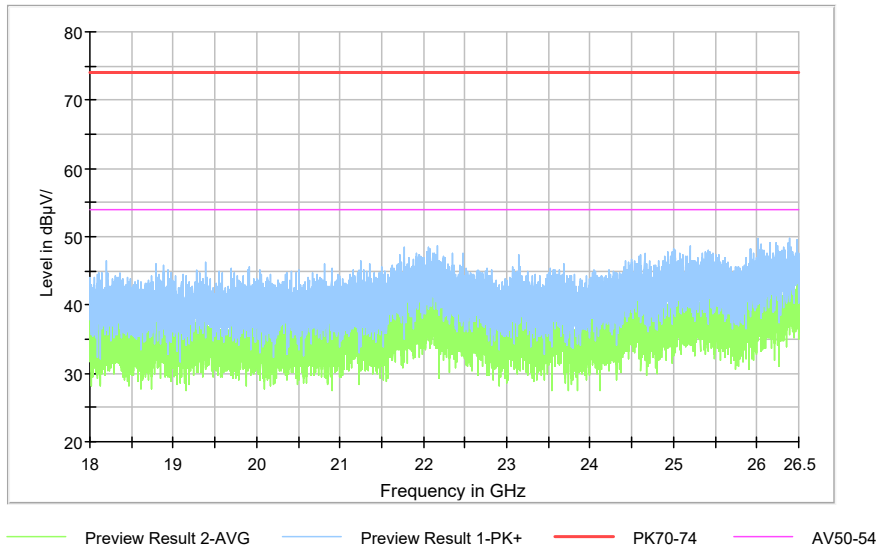


Frequency Range: 1GHz-6GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK



Frequency Range: 6GHz-18GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK

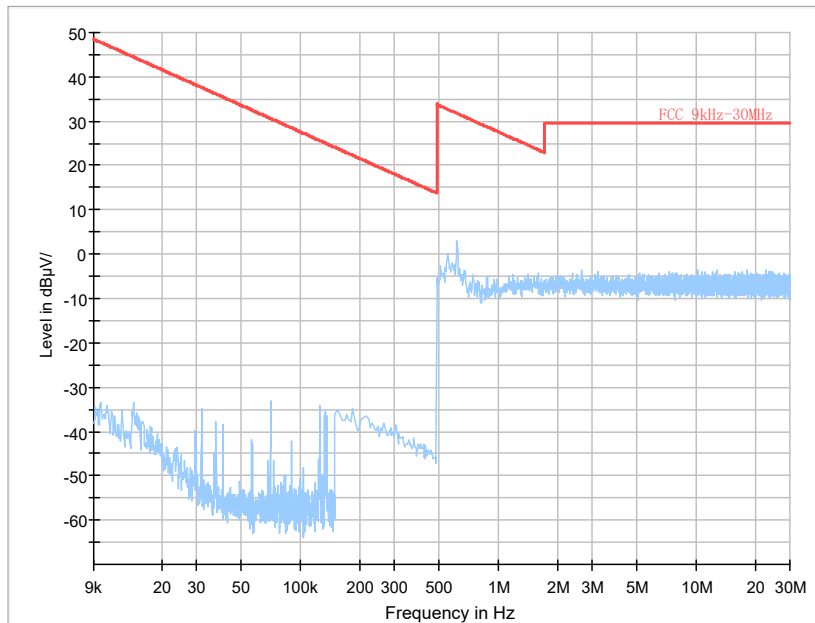
Full Spectrum



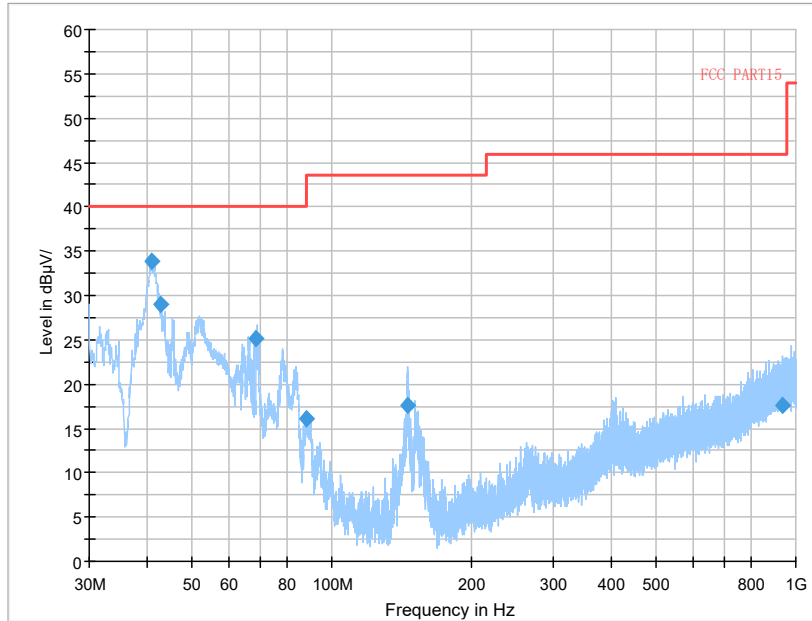
Comment

Frequency Range: 18GHz-25GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK

Carrier frequency (MHz): 2441
Channel No.:39

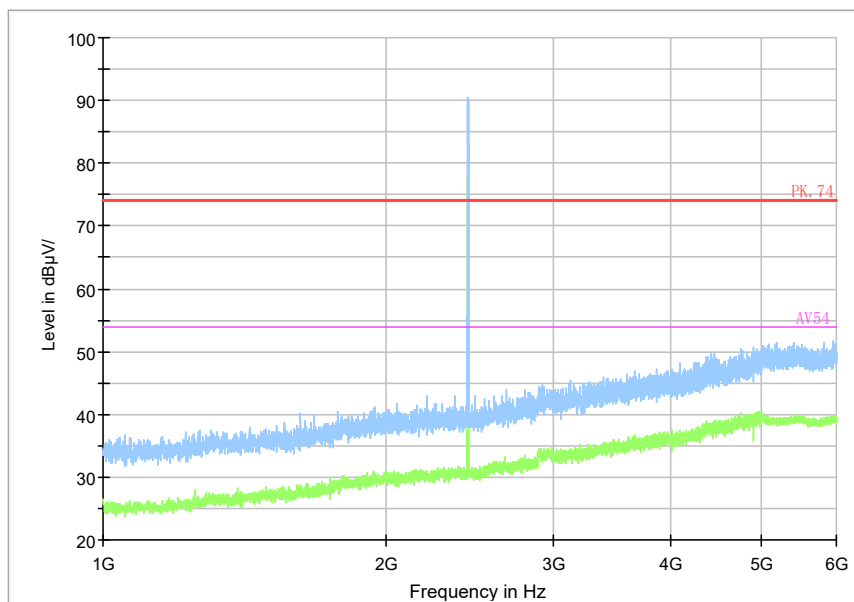


Frequency Range: 9kHz-30MHz
Detector: QP mode
Modulation type: GFSK

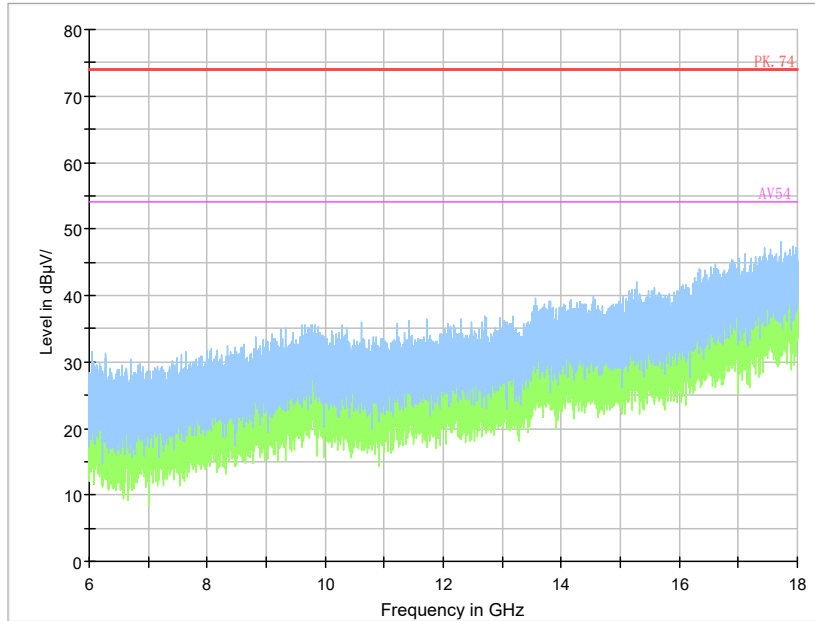


Frequency Range: 30MHz-1000MHz
Detector: QP mode
Modulation type: GFSK

Full Spectrum

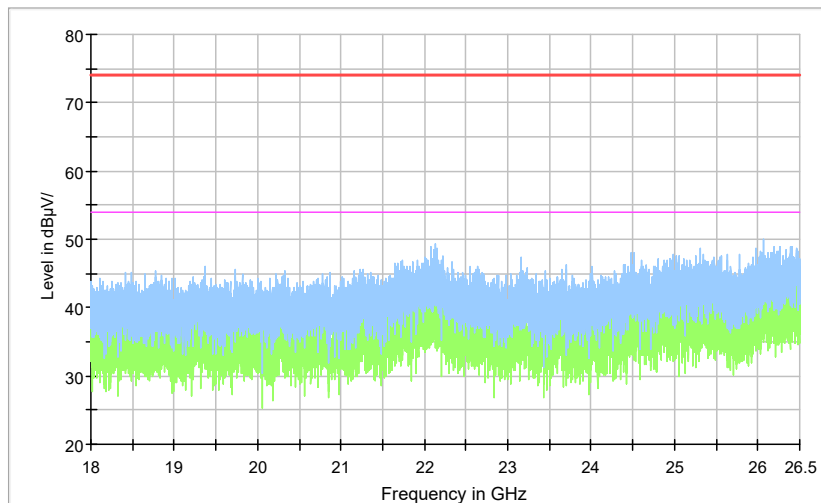


Frequency Range: 1GHz-6GHz
Detector: Av mode and PK mode
Modulation type: GFSK



Frequency Range: 3GHz- 18GHz
Detector: Av mode and PK mode
Modulation type: GFSK

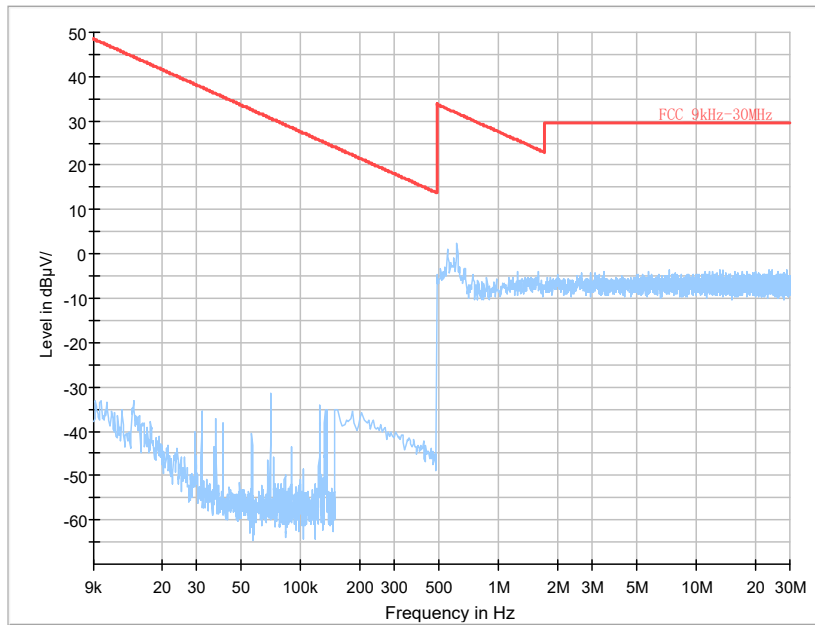
Full Spectrum



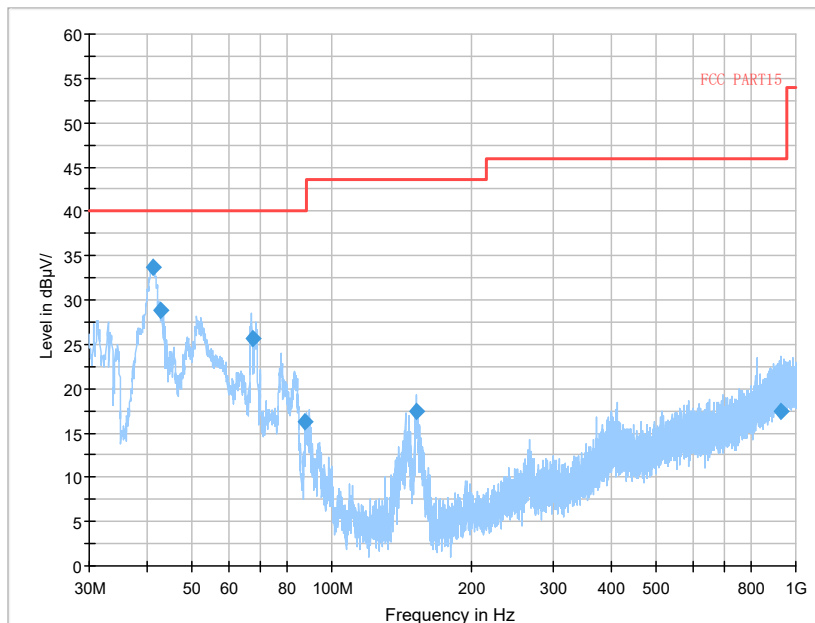
Preview Result 2-AVG Preview Result 1-PK+ PK70-74 AV50-54

Comment

Frequency Range: 18GHz-25GHz
Detector: Av mode and PK mode
Modulation type: GFSK

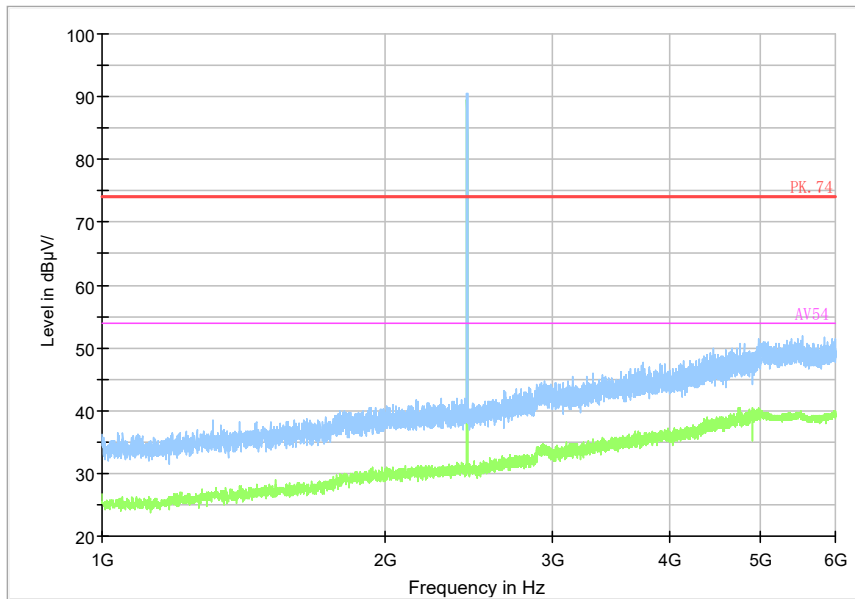


Frequency Range: 9kHz-30MHz
Detector: QP mode
Modulation type: $\pi/4$ DQPSK

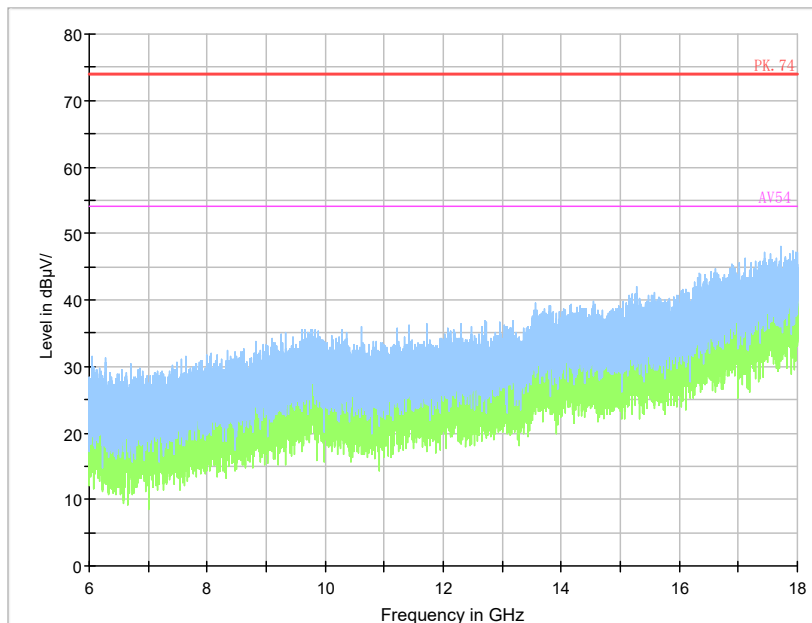


Frequency Range: 30MHz-1000 MHz
Detector: QP mode
Modulation type: $\pi/4$ DQPSK

Full Spectrum

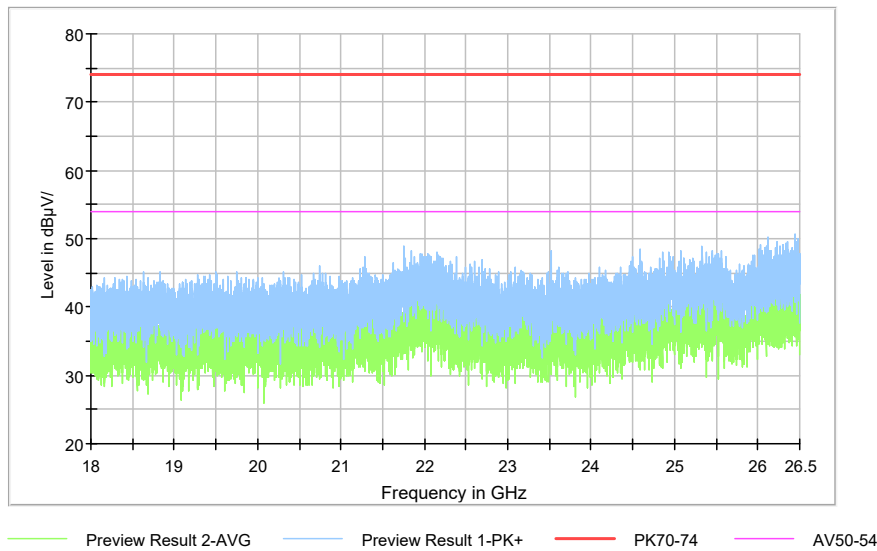


Frequency Range: 1GHz-6GHz
Detector: Av mode and PK mode
Modulation type: $\pi/4$ DQPSK



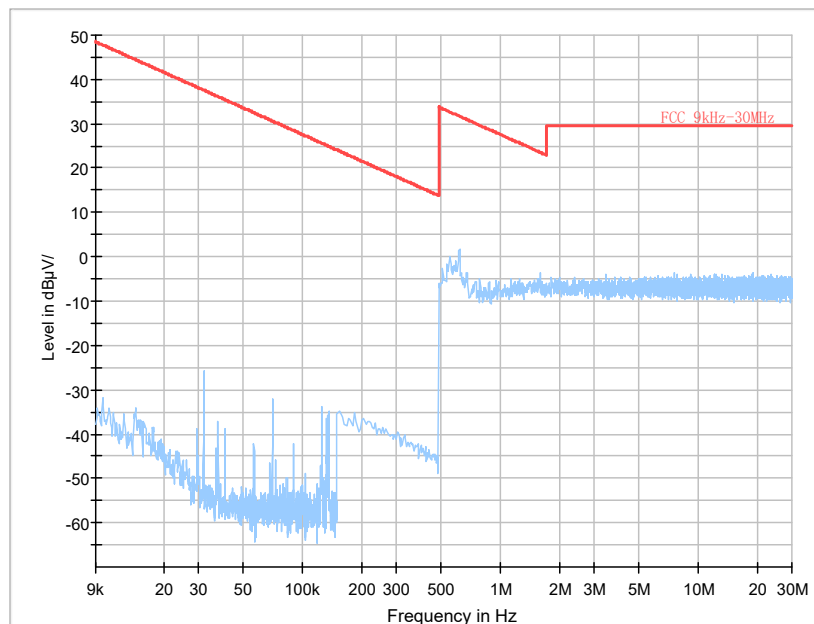
Frequency Range: 6GHz-18GHz
Detector: Av mode and PK mode
Modulation type: $\pi/4$ DQPSK

Full Spectrum

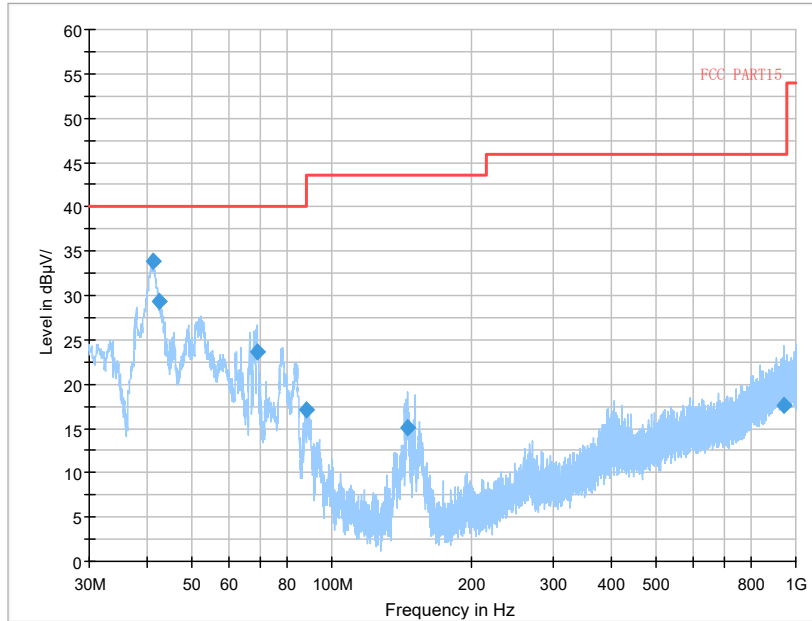


Comment

Frequency Range: 18GHz-25GHz
 Detector: Av mode and PK mode
 Modulation type: $\pi/4$ DQPSK

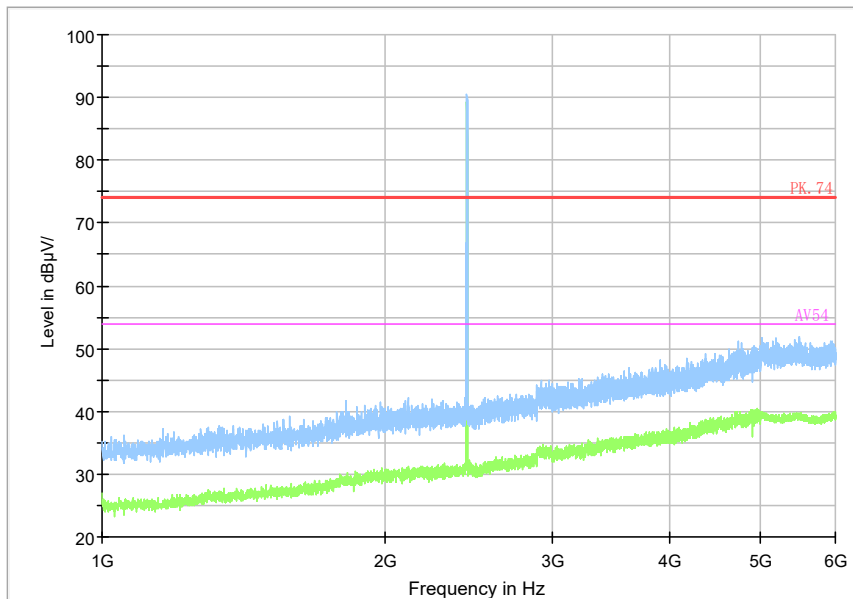


Frequency Range: 9kHz-30MHz
 Detector: QP mode
 Modulation type: 8DPSK

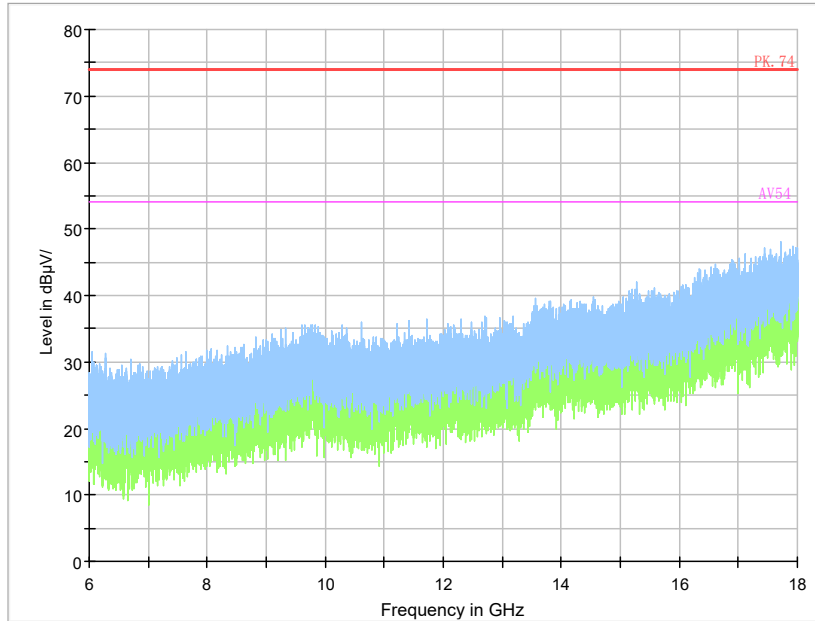


Frequency Range: 30MHz-1000 MHz
Detector: QP mode
Modulation type: 8DPSK

Full Spectrum

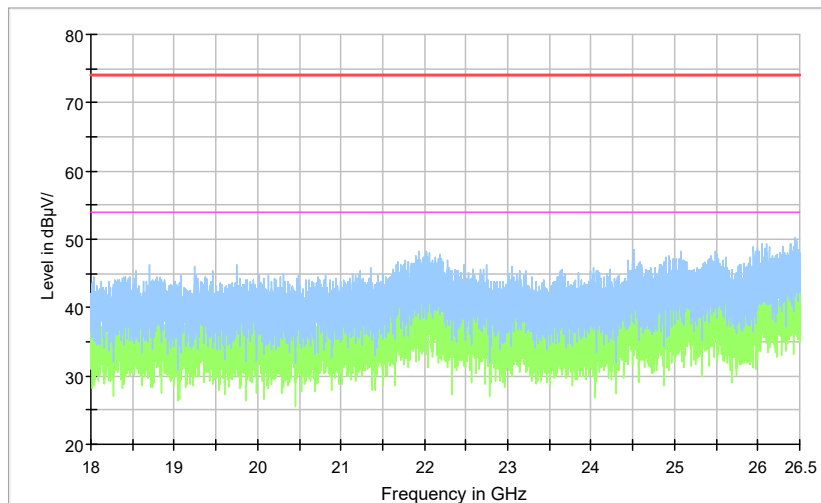


Frequency Range: 1GHz-6GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK



Frequency Range: 6GHz-18GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK

Full Spectrum

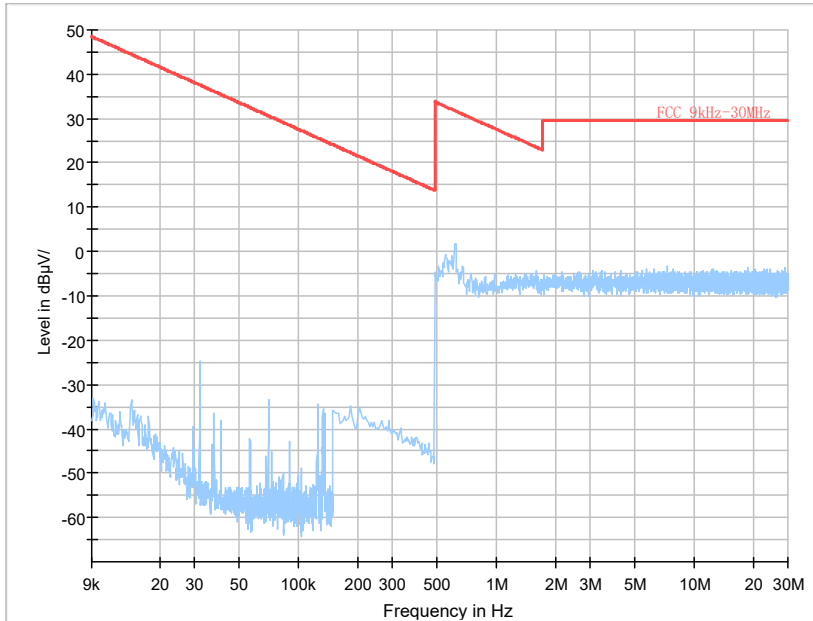


Preview Result 2-AVG Preview Result 1-PK+ PK70-74 AV50-54

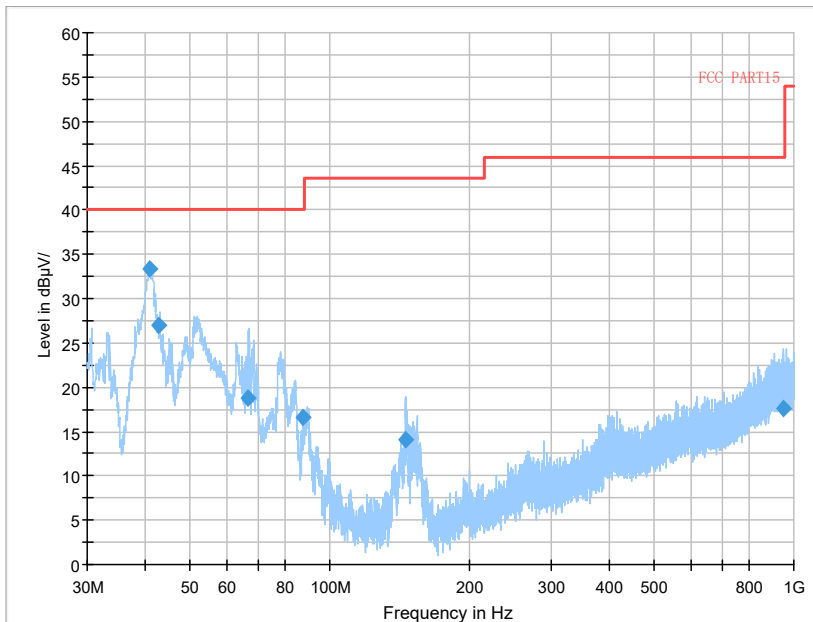
Comment

Frequency Range: 18GHz-25GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK

Carrier frequency (MHz): 2480
Channel No.:78

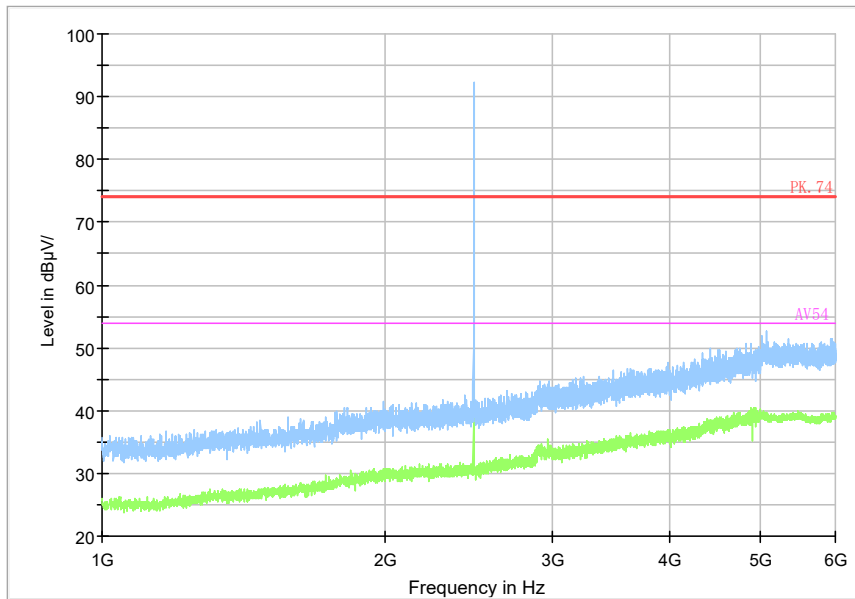


Frequency Range: 9kHz-30MHz
Detector: QP mode
Modulation type: GFSK

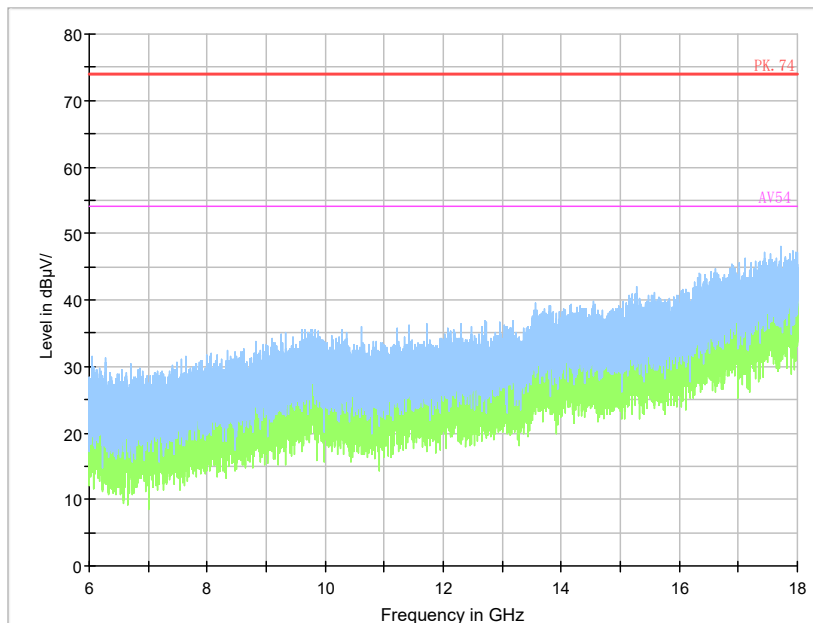


Frequency Range: 30MHz-1000MHz
Detector: QP mode
Modulation type: GFSK

Full Spectrum



Frequency Range: 1GHz-6GHz
Detector: Av mode and PK mode
Modulation type: GFSK



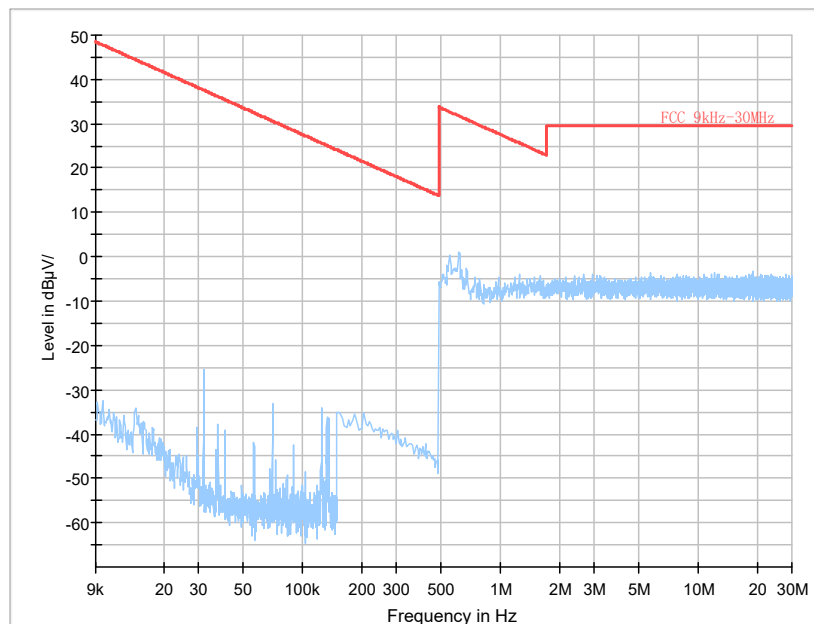
Frequency Range: 3GHz- 18GHz
Detector: Av mode and PK mode
Modulation type: GFSK

Full Spectrum

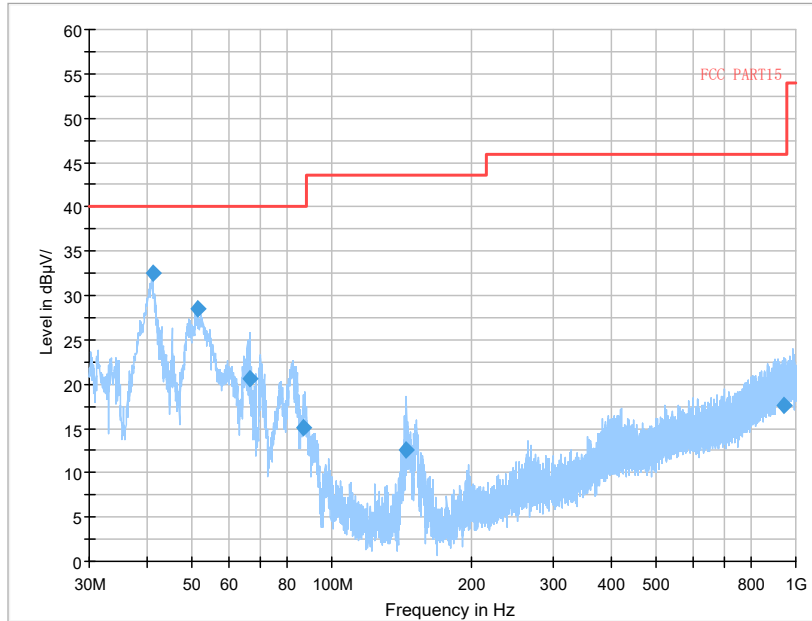


Comment

Frequency Range: 18GHz-25GHz
 Detector: Av mode and PK mode
 Modulation type: GFSK

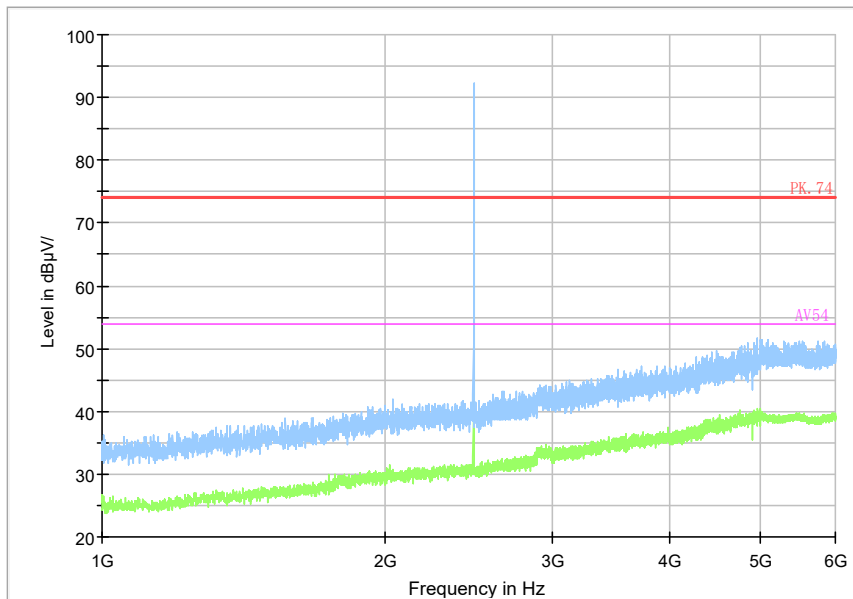


Frequency Range: 9kHz-30MHz
 Detector: QP mode
 Modulation type: $\pi/4$ DQPSK

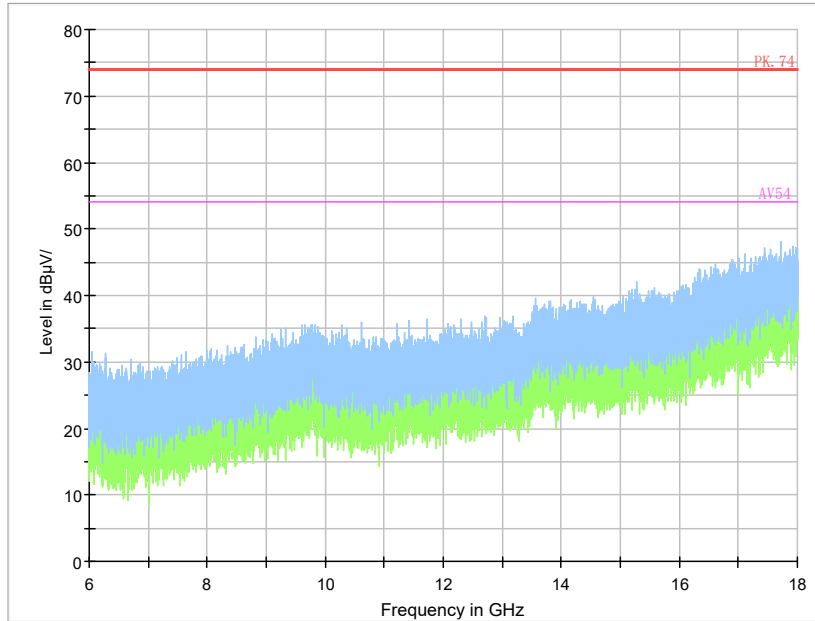


Frequency Range: 30MHz-1000 MHz
Detector: QP mode
Modulation type: $\pi/4$ DQPSK

Full Spectrum

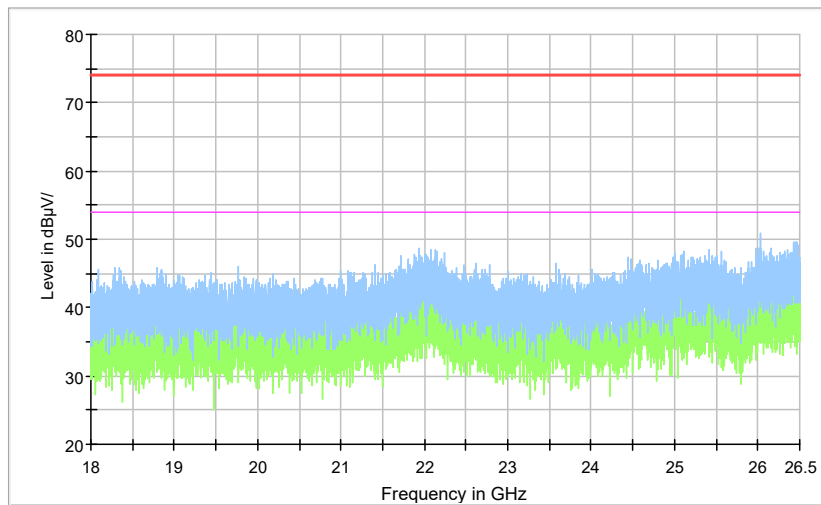


Frequency Range: 1GHz-6GHz
Detector: Av mode and PK mode
Modulation type: $\pi/4$ DQPSK



Frequency Range: 6GHz-18GHz
Detector: Av mode and PK mode
Modulation type: $\pi/4$ DQPSK

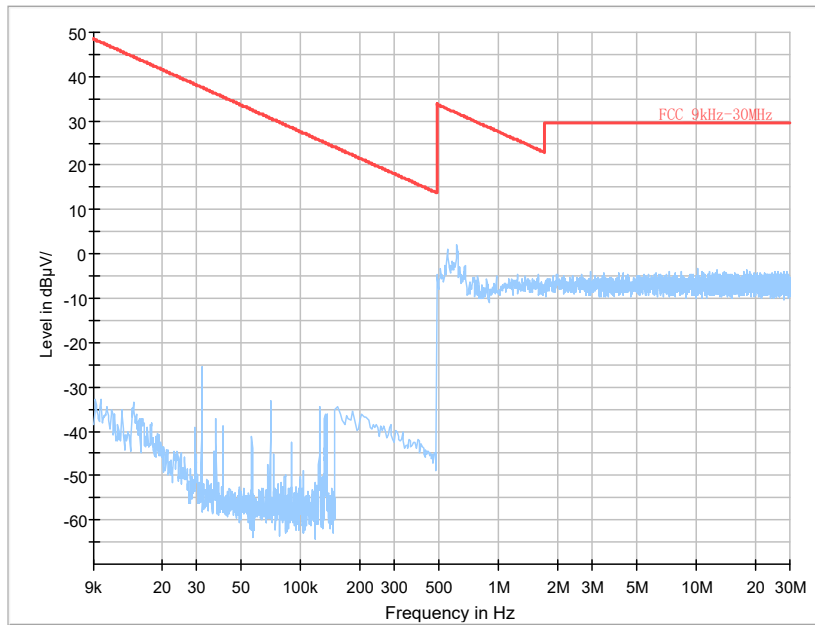
Full Spectrum



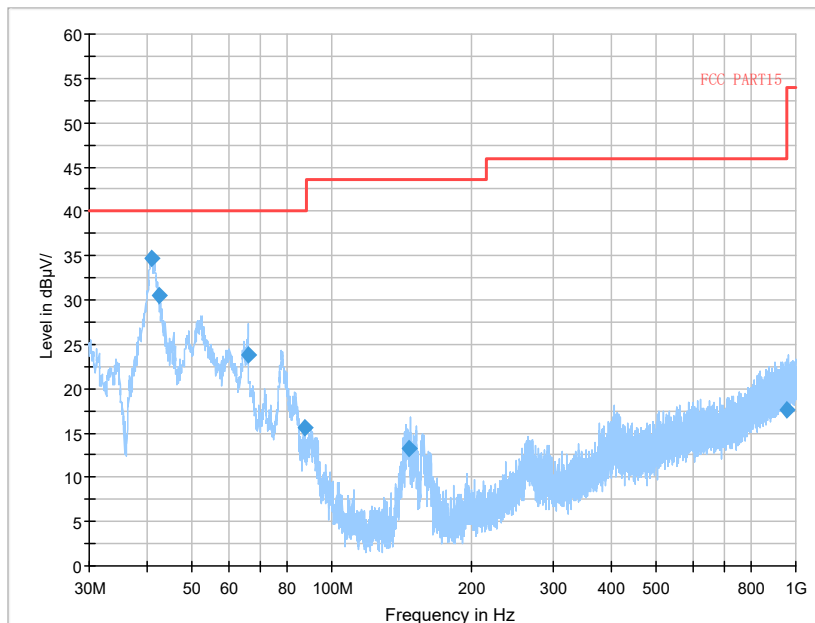
Preview Result 2-AVG Preview Result 1-PK+ PK70-74 AV50-54

Comment

Frequency Range: 18GHz-25GHz
Detector: Av mode and PK mode
Modulation type: $\pi/4$ DQPSK

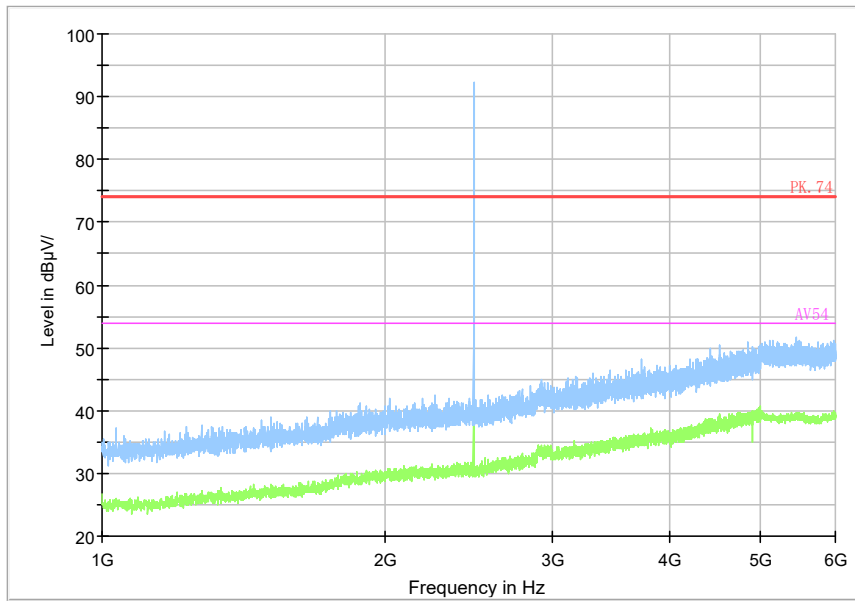


Frequency Range: 9kHz-30MHz
Detector: QP mode
Modulation type: 8DPSK

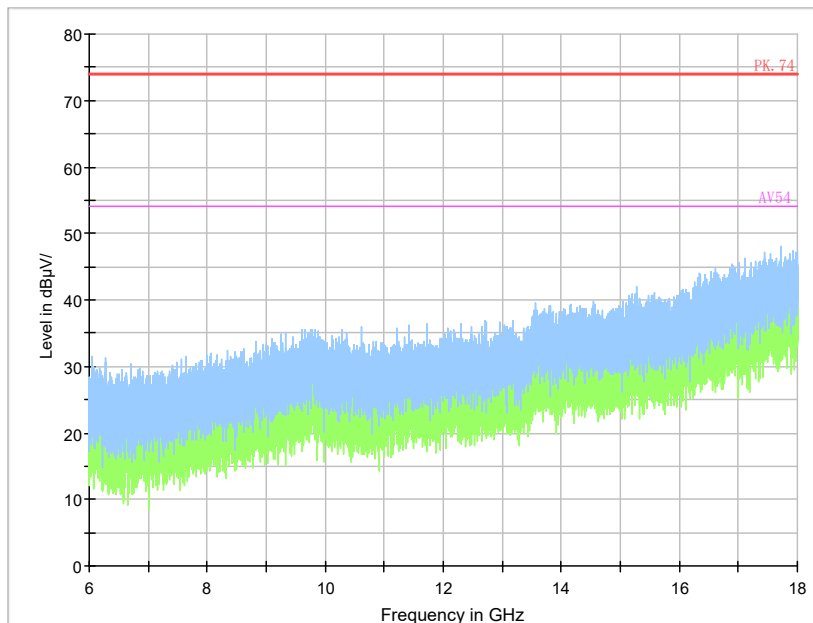


Frequency Range: 30MHz-1000 MHz
Detector: QP mode
Modulation type: 8DPSK

Full Spectrum

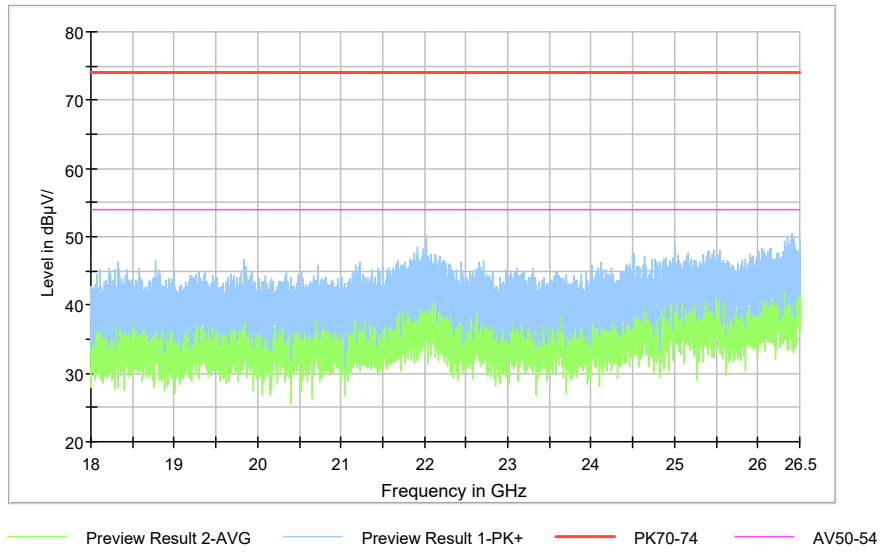


Frequency Range: 1GHz-6GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK



Frequency Range: 6GHz-18GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK

Full Spectrum



Comment

Frequency Range: 18GHz-25GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK

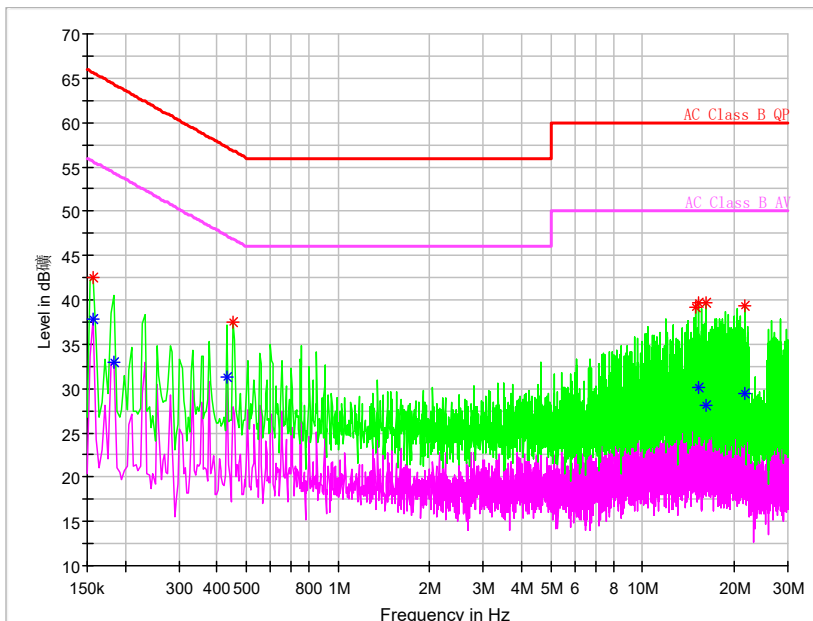
AC Power line Conducted Emission

A "reference path loss" Corr.(dB) is established and the $L_{cable}+ATT+VDF$ is the attenuation of "reference path loss", and including the cable loss, the attenuation of the attenuator, the voltage division factor of AMN.

The measurement results are obtained as described below:

$$P_{result}=P_{mea}+ Corr.(dB)$$

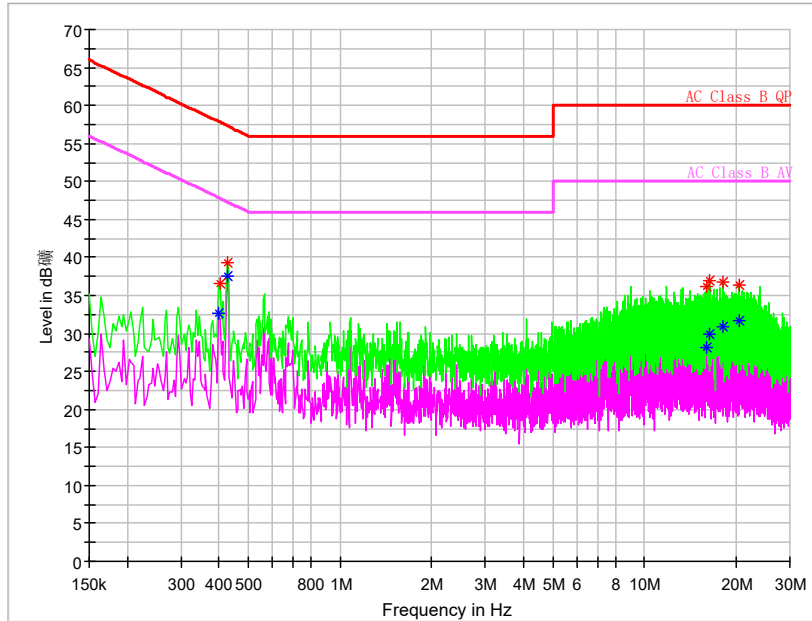
Sample calculation: $(42.58 \text{ dB}\mu\text{V}) = (12.88 \text{ dB}\mu\text{V}) + (29.7 \text{ dB})$, the corresponding frequency is 0.157462MHz.



L+N Line Voltage: 120VAC

MEASUREMENT RESULT:

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	Pmea QuasiPeak (dBμV)	Pmea Average (dBμV)
0.157462	42.58	---	65.60	23.01	L1	29.7	12.88	---
0.157462	---	37.89	55.60	17.71	L1	29.7	---	8.19
0.183581	---	32.97	54.32	21.35	L1	29.7	---	3.27
0.429844	---	31.26	47.26	16.00	L1	29.7	---	1.56
0.452231	37.48	---	56.83	19.35	L1	29.7	7.78	---
14.907094	39.20	---	60.00	20.80	L1	29.9	9.3	---
15.302606	---	30.06	50.00	19.94	L1	29.9	---	0.16
15.302606	39.58	---	60.00	20.42	L1	29.9	9.68	---
16.149600	---	28.04	50.00	21.96	L1	29.9	---	-1.86
16.149600	39.73	---	60.00	20.27	L1	29.9	9.83	---
21.612150	39.25	---	60.00	20.75	N	30.0	9.25	---
21.612150	---	29.44	50.00	20.56	N	30.0	---	-0.56



L+N Line Voltage: 240VAC

MEASUREMENT RESULT:

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P _{mea} QuasiPeak (dBμV)	P _{mea} Average (dBμV)
0.399994	---	32.58	47.85	15.27	L1	29.7	---	2.88
0.403725	36.63	---	57.78	21.15	L1	29.7	6.93	---
0.426112	39.37	---	57.33	17.96	L1	29.7	9.67	---
0.426112	---	37.47	47.33	9.86	L1	29.7	---	7.77
16.063781	36.16	---	60.00	23.84	L1	29.9	6.26	---
16.063781	---	28.15	50.00	21.85	L1	29.9	---	-1.75
16.373475	---	29.97	50.00	20.03	L1	29.9	---	0.07
16.373475	36.93	---	60.00	23.07	L1	29.9	7.03	---
18.164475	---	30.81	50.00	19.19	L1	29.9	---	0.91
18.164475	36.68	---	60.00	23.32	L1	29.9	6.78	---
20.418150	36.41	---	60.00	23.59	N	30.0	6.41	---
20.418150	---	31.76	50.00	18.24	L1	30.0	---	1.76

---End of Test Report---