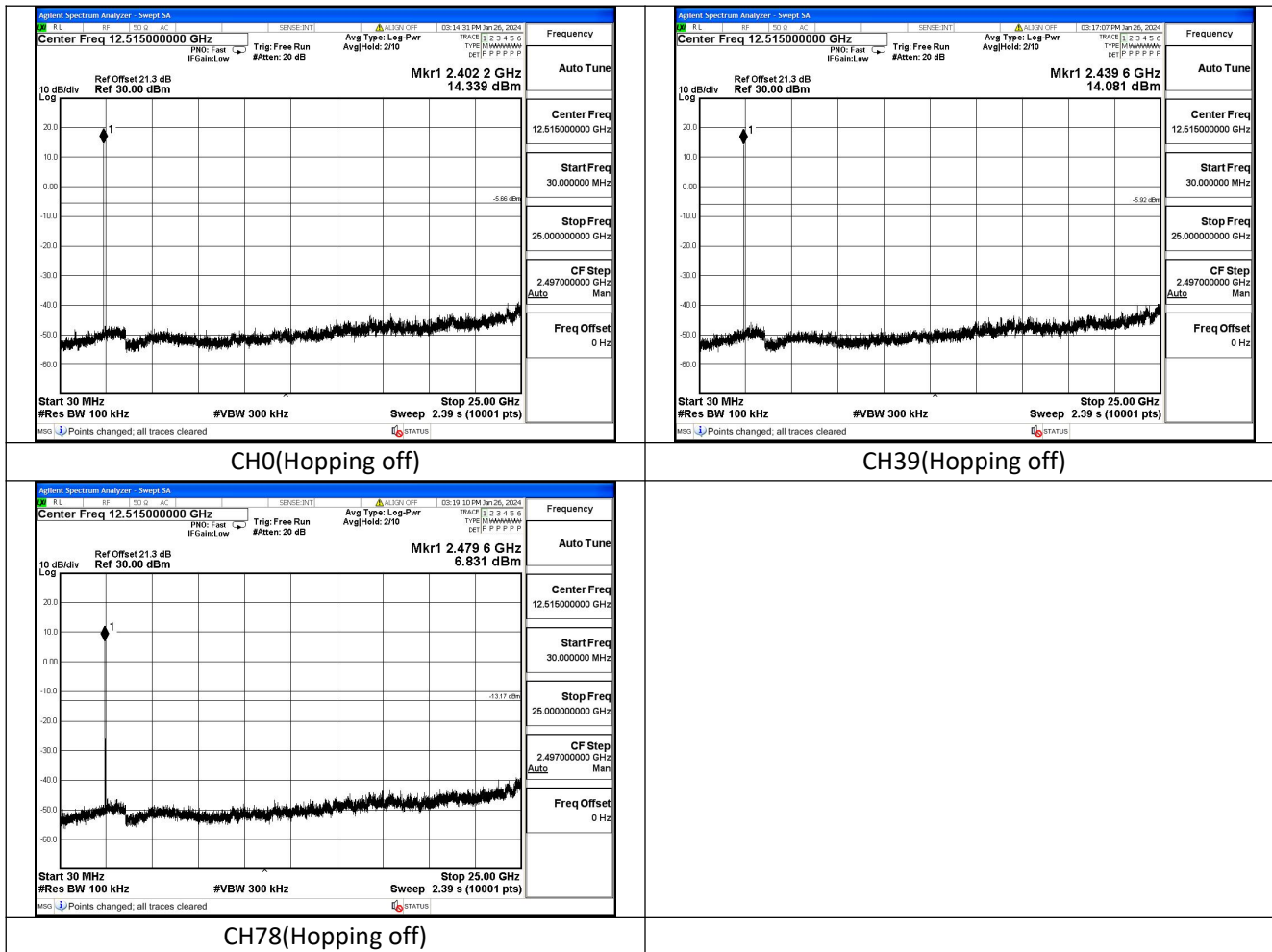
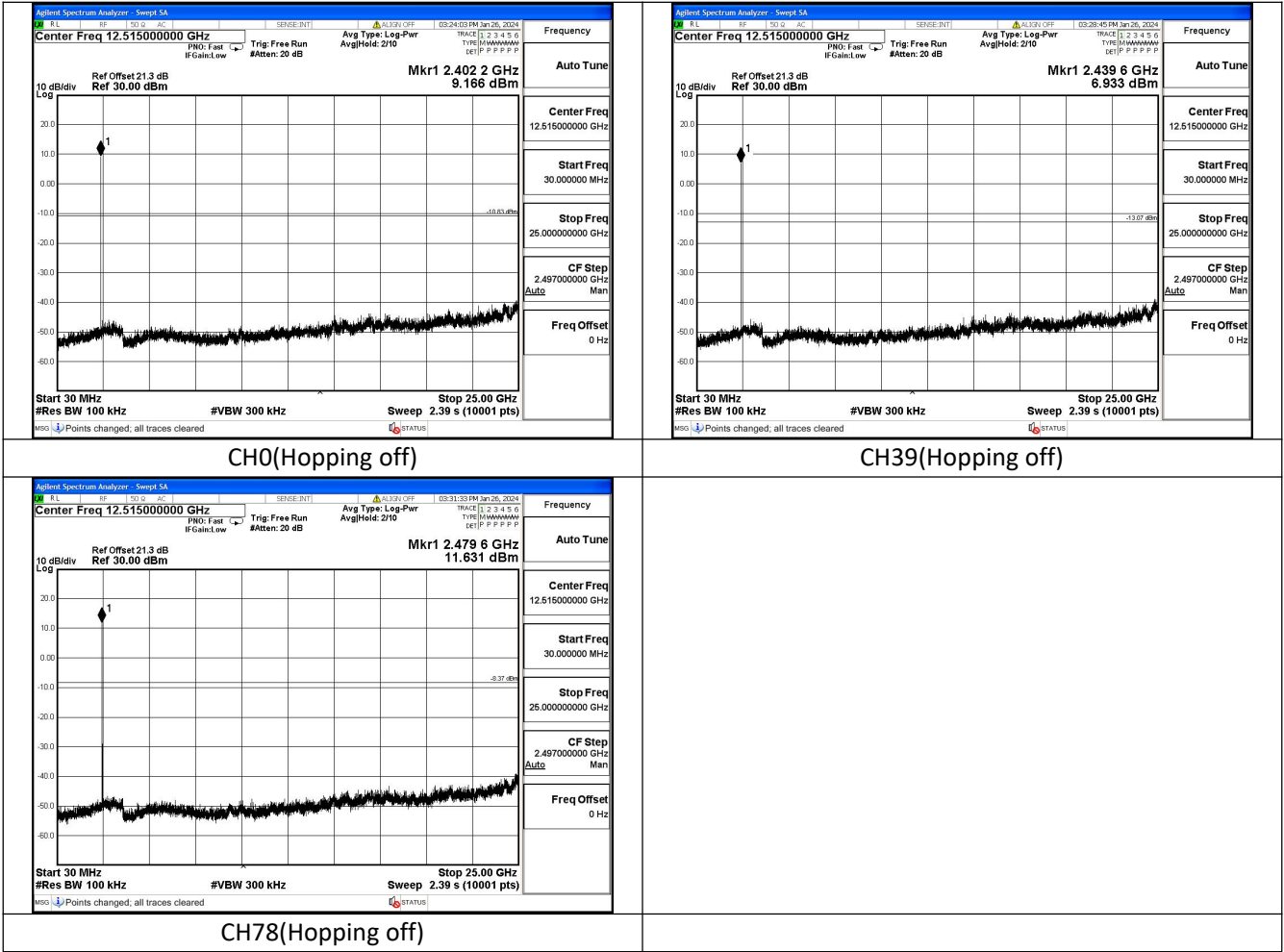


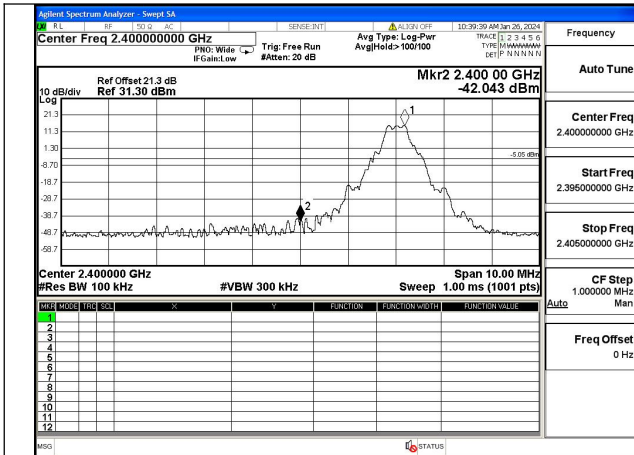
Test Mode:  $\pi$ /4DQPSK



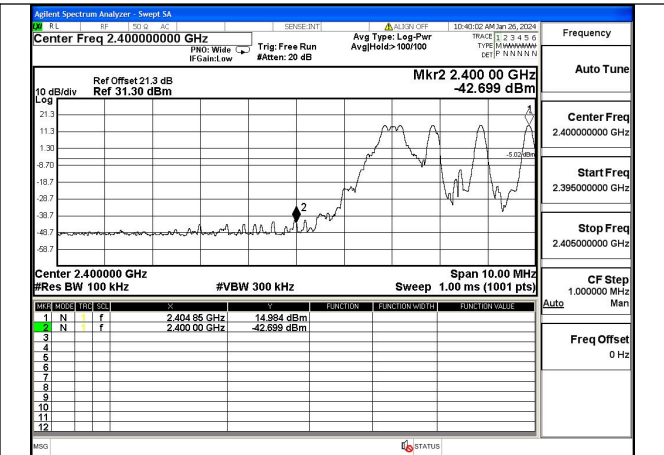
Test Mode: 8DPSK



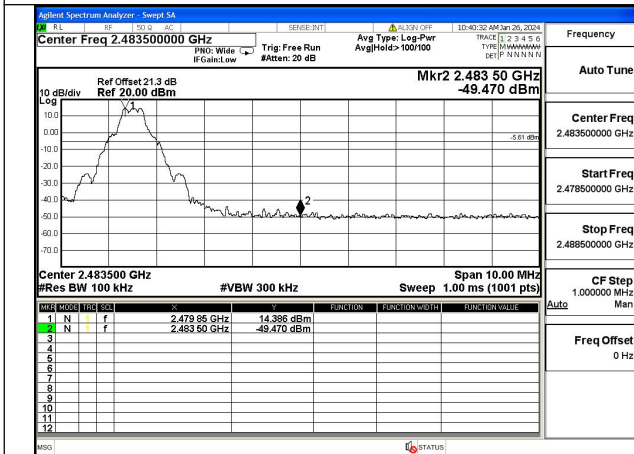
**7 Band Edge measurement**  
Test Mode: GFSK



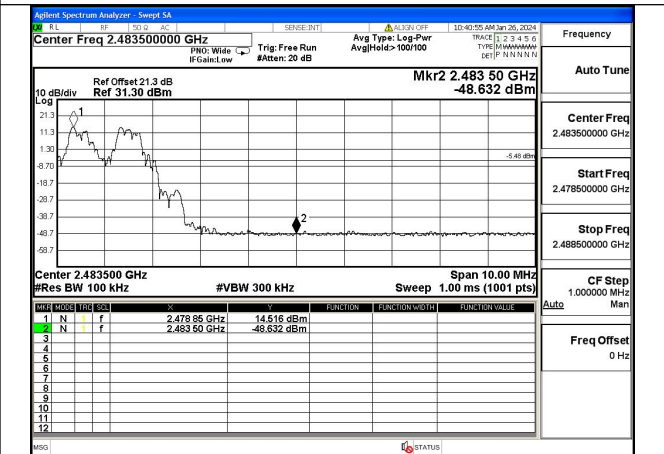
CH0(Hopping off)



CH0(Hopping on)

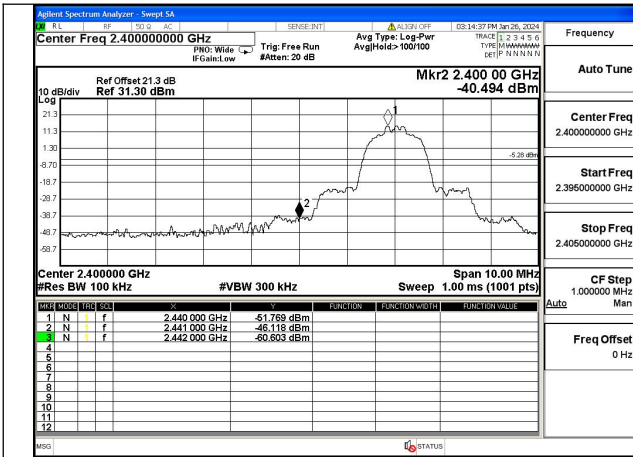


CH78(Hopping off)

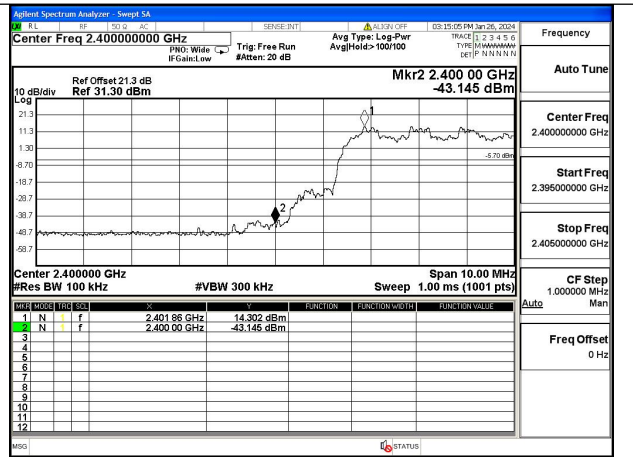


CH78(Hopping on)

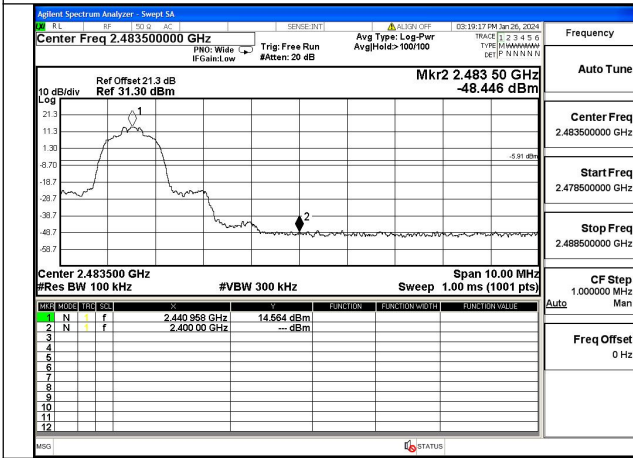
Test Mode:  $\pi$  /4DQPSK



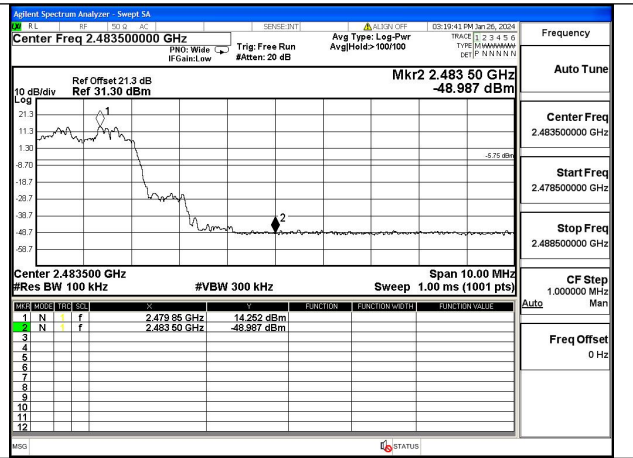
CH0(Hopping off)



CH0(Hopping on)

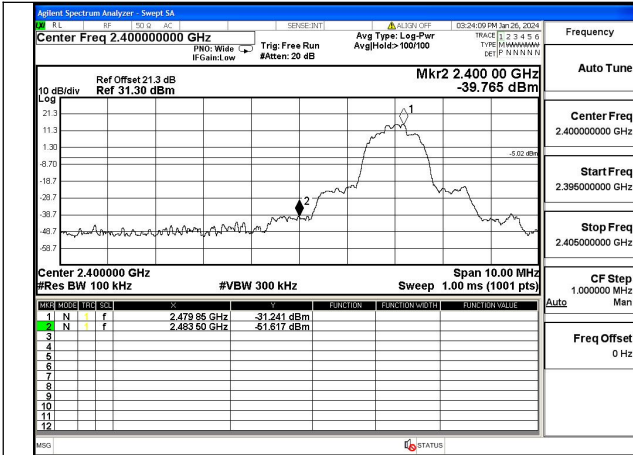


CH78(Hopping off)

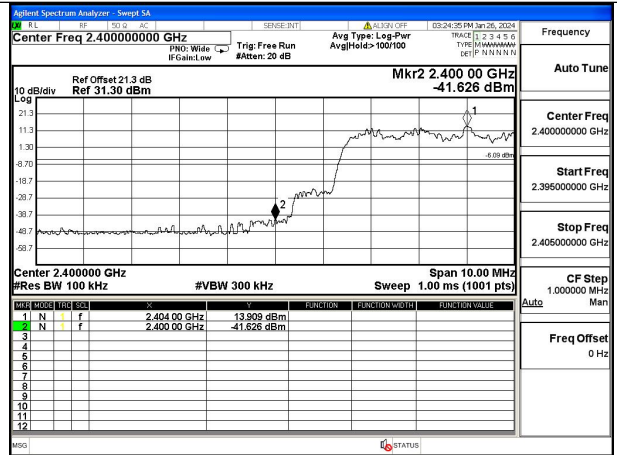


CH78(Hopping on)

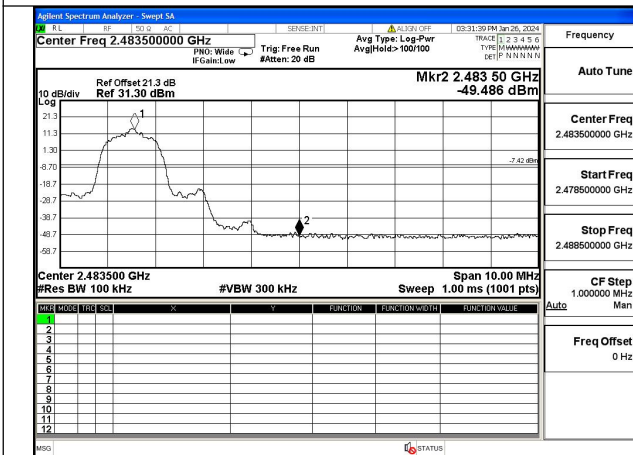
Test Mode: 8DPSK



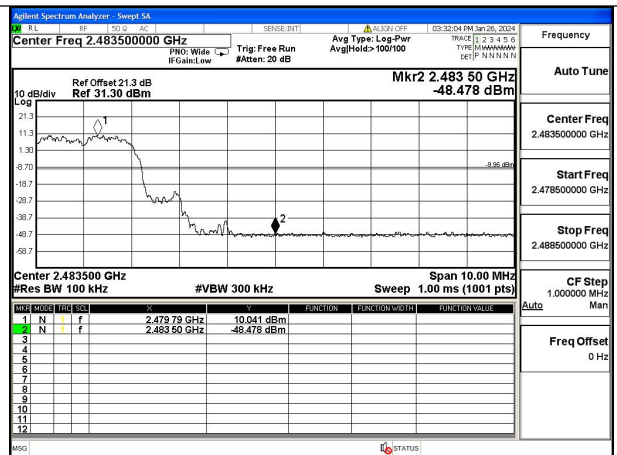
CHO(Hopping off)



CHO(Hopping on)



CH78(Hopping off)



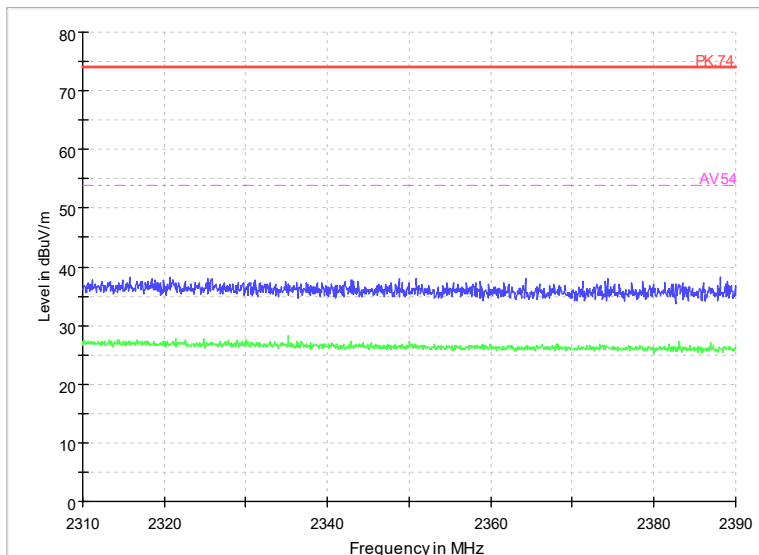
CH78(Hopping on)

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

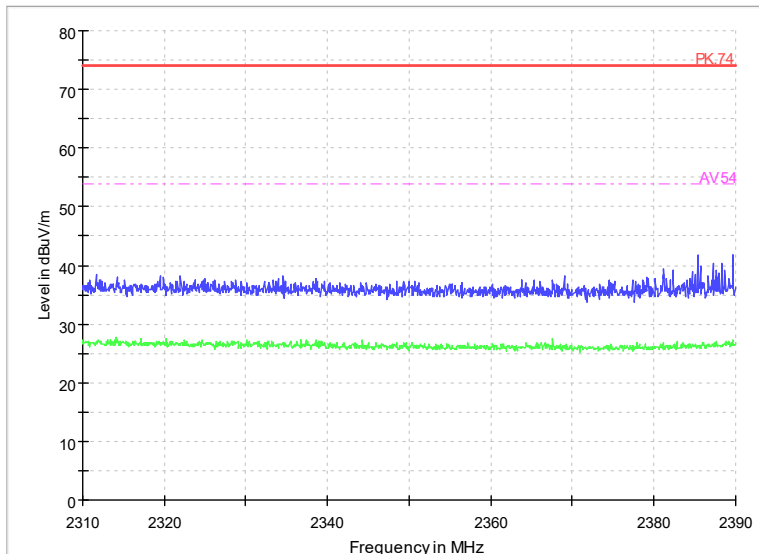
Note: The worst channel results are reflected in the report

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

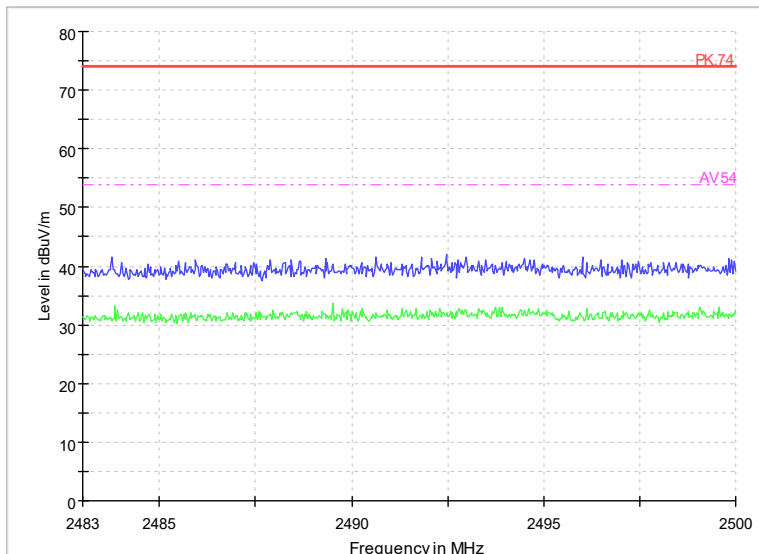
**Radiated Emission Band Edge**



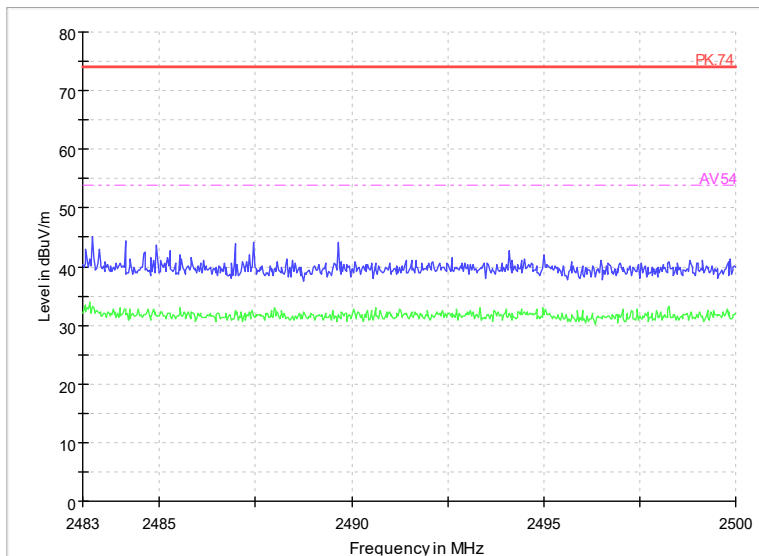
Carrier frequency (MHz): 2402  
Channel No.:0  
Test Mode: GFSK  
Polarity: Vertical



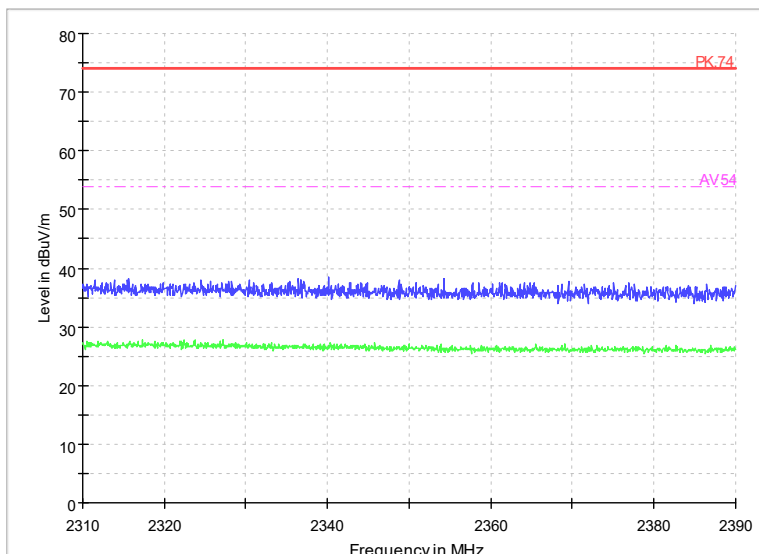
Carrier frequency (MHz): 2402  
Channel No.:0  
Test Mode: GFSK  
Polarity: Horizontal



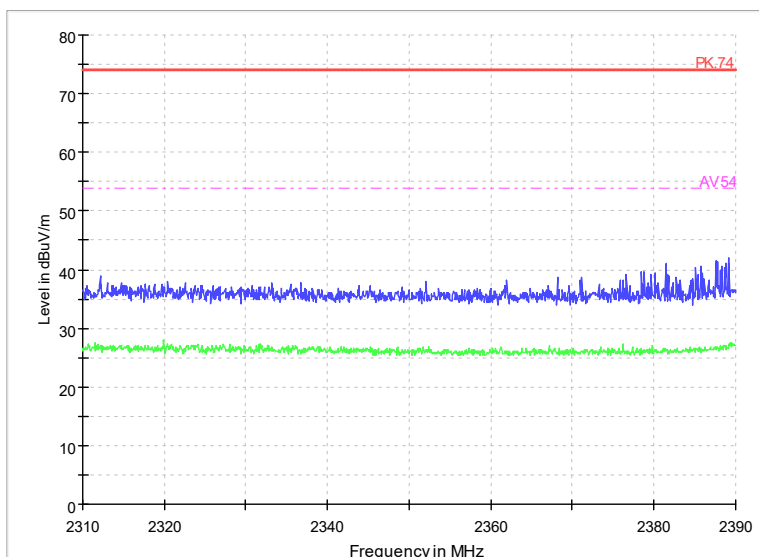
Carrier frequency (MHz): 2480  
Channel No.:78  
Test Mode: GFSK  
Polarity: Vertical



Carrier frequency (MHz): 2480  
Channel No.:78  
Test Mode: GFSK  
Polarity: Horizontal

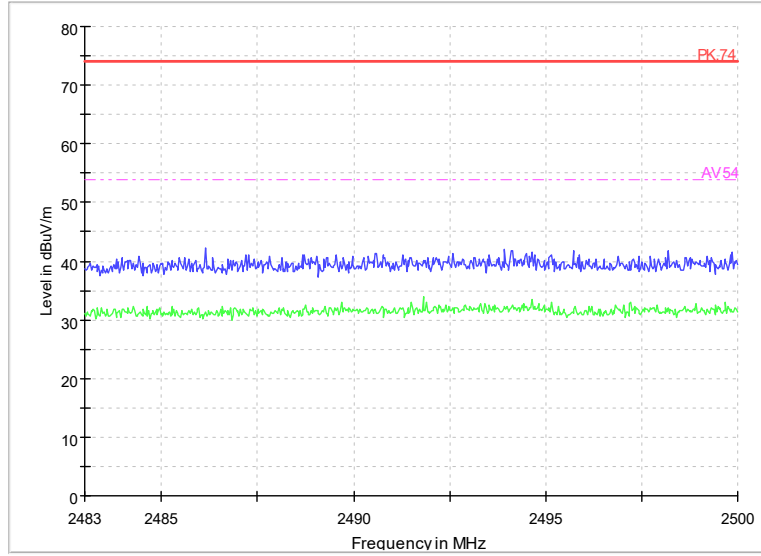


Carrier frequency (MHz): 2402  
Channel No.:0  
Test Mode:  $\pi/4$ DQPSK  
Polarity: Vertical

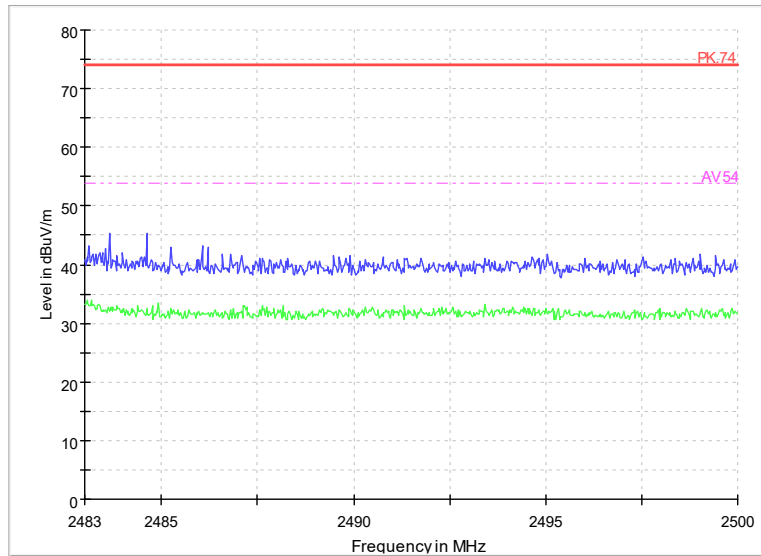


Carrier frequency (MHz): 2402  
Channel No.:0  
Test Mode:  $\pi/4$ DQPSK  
Polarity: Horizontal

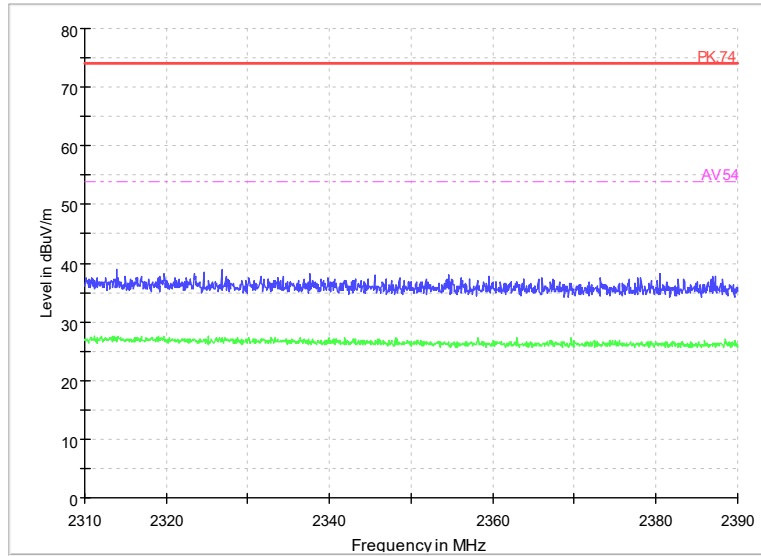




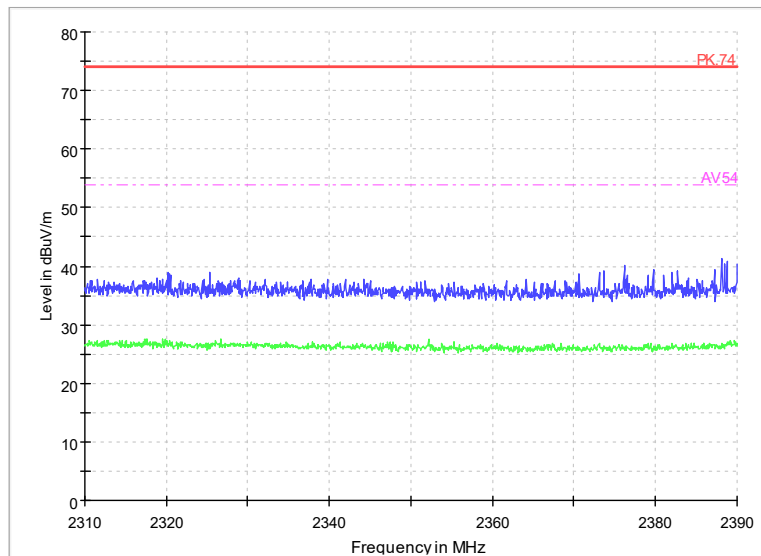
Carrier frequency (MHz): 2480  
Channel No.:78  
Test Mode:  $\pi/4$ DQPSK  
Polarity: Vertical



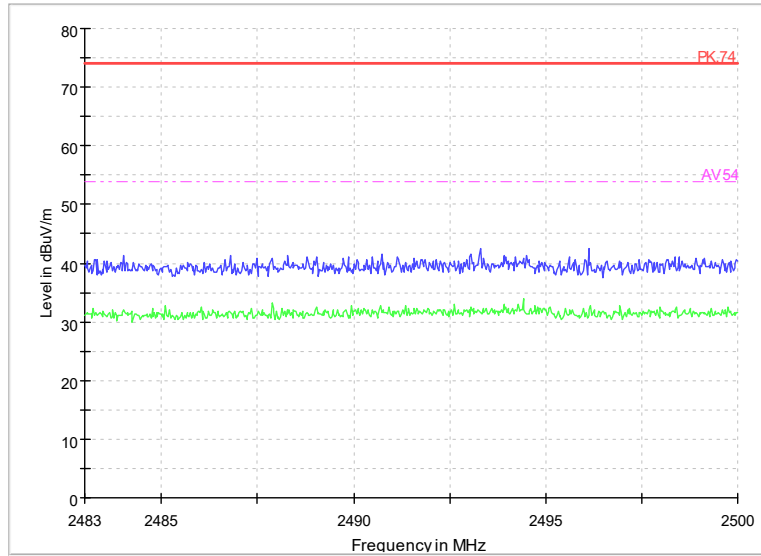
Carrier frequency (MHz): 2480  
Channel No.:78  
Test Mode:  $\pi/4$ DQPSK  
Polarity: Horizontal



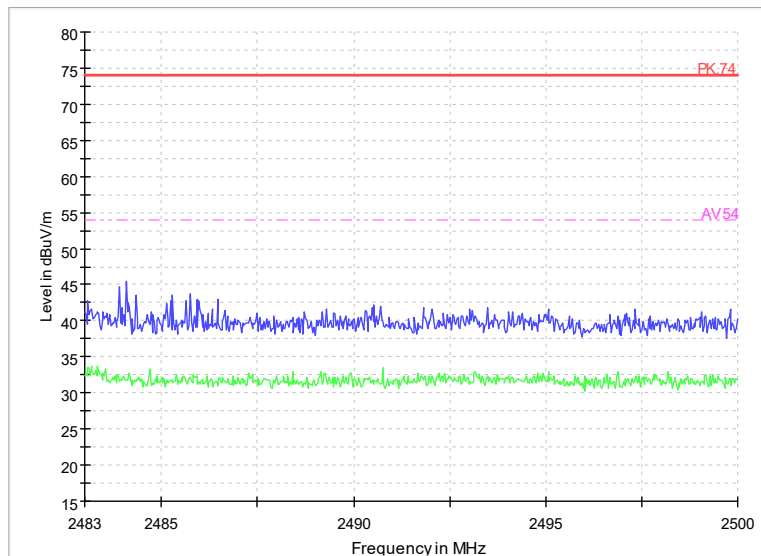
Carrier frequency (MHz): 2402  
Channel No.:0  
Test Mode: 8DPSK  
Polarity: Vertical



Carrier frequency (MHz): 2402  
Channel No.:0  
Test Mode: 8DPSK  
Polarity: Horizontal



Carrier frequency (MHz): 2480  
Channel No.:78  
Test Mode: 8DPSK  
Polarity: Vertical



Carrier frequency (MHz): 2480  
Channel No.:78  
Test Mode: 8DPSK  
Polarity: Horizontal

## Radiated Emission

After comparison, the worst case attitude is EUT lay down .

### Sample Calculations

After comparison, the worst case attitude is EUT lay down.

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:

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

Sample calculation:  $(6.59\text{dB}\mu\text{V}/\text{m}) = (24.99\text{dB}\mu\text{V}) + (-18.4\text{dB}/\text{m})$ , the corresponding frequency is 50.5155MHz.

For GFSK

Channel No.:0

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
50.5155	6.59	-18.4	24.99	Vertical	40	33.41
59.682	5.4	-19.2	24.6	Vertical	40	34.6
98.288	6.33	-18.7	25.03	Vertical	43.5	37.17
303.055	8.01	-15.7	23.71	Vertical	46	37.99
538.4255	13.4	-9.7	23.1	Vertical	46	32.6
922.0605	18.49	-3.1	21.59	Vertical	46	27.51

For  $\pi/4$ DQPSK

Channel No.:0

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
38.3905	6.34	-18.9	25.24	Vertical	40	33.66
58.8575	6.17	-19.1	25.27	Vertical	40	33.83
96.93	5.99	-18.8	24.79	Vertical	43.5	37.51
291.1725	7.89	-16.1	23.99	Vertical	46	38.11
540.22	13.39	-9.6	22.99	Vertical	46	32.61
949.754	18.62	-2.8	21.42	Vertical	46	27.38

For 8DPS

Channel No.:0

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
52.019	7.04	-18.5	25.54	Vertical	40	32.96
58.8575	6.26	-19.1	25.36	Vertical	40	33.74

97.9	6.41	-18.8	25.21	Vertical	43.5	37.09
203.3875	5.2	-18.7	23.9	Vertical	43.5	38.3
551.86	13.28	-9.4	22.68	Vertical	46	32.72
936.9015	18.64	-2.9	21.54	Vertical	46	27.36

For GFSK  
Channel No.:39

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
37.5175	5.26	-19.1	24.36	Vertical	40	34.74
57.936	6.52	-19	25.52	Vertical	40	33.48
98.6275	6.25	-18.7	24.95	Vertical	43.5	37.25
304.5585	8.01	-15.7	23.71	Vertical	46	37.99
542.3055	13.28	-9.6	22.88	Vertical	46	32.72
946.3105	18.56	-2.9	21.46	Vertical	46	27.44

For  $\pi/4$ DQPSK  
Channel No.:39

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
50.1275	5.9	-18.3	24.2	Vertical	40	34.1
57.354	5.97	-19	24.97	Vertical	40	34.03
96.8815	5.64	-18.8	24.44	Vertical	43.5	37.86
304.801	7.76	-15.7	23.46	Vertical	46	38.24
555.352	12.79	-9.3	22.09	Vertical	46	33.21
940.636	18.41	-2.9	21.31	Vertical	46	27.59

For 8DPSK  
Channel No.:39

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
51.0005	6.79	-18.4	25.19	Vertical	40	33.21
56.772	5.77	-18.9	24.67	Vertical	40	34.23
97.2695	6.01	-18.8	24.81	Vertical	43.5	37.49
207.801	5.32	-18.6	23.92	Vertical	43.5	38.18
528.386	12.87	-10	22.87	Vertical	46	33.13
908.5775	18.15	-3.2	21.35	Vertical	46	27.85

For GFSK  
Channel No.:78

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
40.476	5.92	-18.6	24.52	Vertical	40	34.08
64.338	5.02	-20.3	25.32	Vertical	40	34.98
104.1565	6.12	-18.7	24.82	Vertical	43.5	37.38
282.2	7.23	-16.4	23.63	Vertical	46	38.77
534.109	13.08	-9.8	22.88	Vertical	46	32.92
901.351	18.01	-3.3	21.31	Vertical	46	27.99

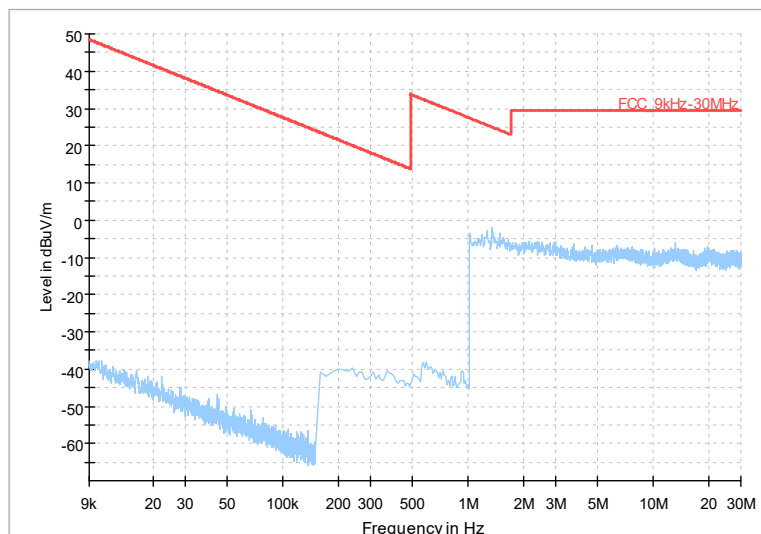
For  $\pi/4$ DQPSK  
Channel No.:78

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
34.171	5.9	-19.7	25.6	Vertical	40	34.1
64.4835	5.07	-20.3	25.37	Vertical	40	34.93
102.3135	5.15	-18.7	23.85	Vertical	43.5	38.35
201.8355	5.26	-18.8	24.06	Vertical	43.5	38.24
507.4825	12.42	-10.4	22.82	Vertical	46	33.58
952.858	18.4	-2.8	21.2	Vertical	46	27.6

For 8DPSK  
Channel No.:78

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
51.922	6.87	-18.5	25.37	Vertical	40	33.13
56.675	5.65	-18.9	24.55	Vertical	40	34.35
98.191	6.16	-18.7	24.86	Vertical	43.5	37.34
210.7595	5.24	-18.5	23.74	Vertical	43.5	38.26
549.241	13.1	-9.4	22.5	Vertical	46	32.9
913.573	18.23	-3.2	21.43	Vertical	46	27.77

Full Spectrum

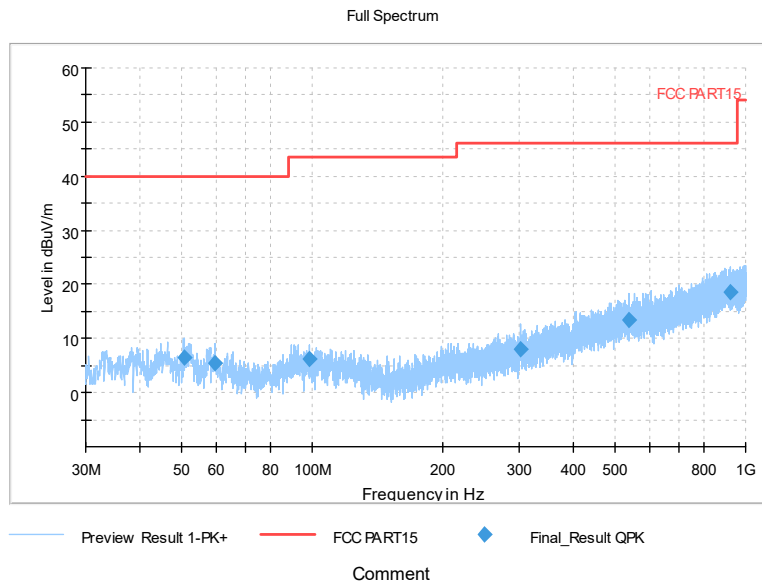


Frequency Range: 9kHz -30MHz

Detector: QP mode

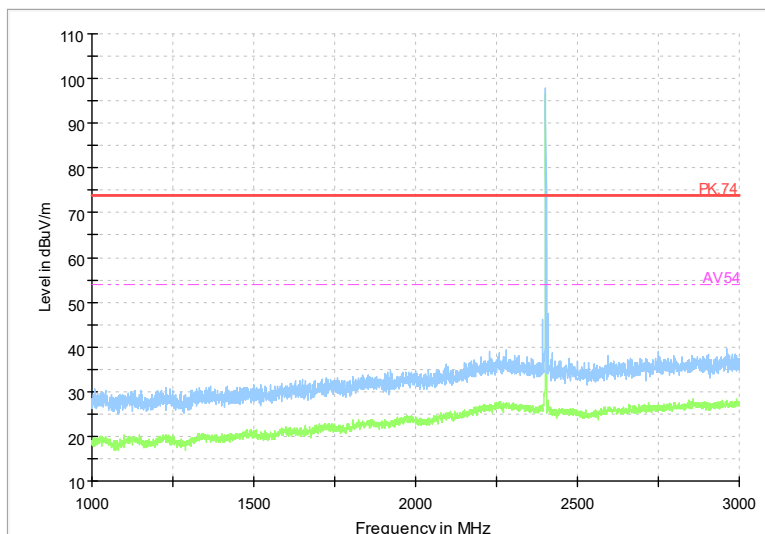
Note: The relevant tests have been performed in order to verify in which mode would have the worst features, the result show above is the worst case.

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



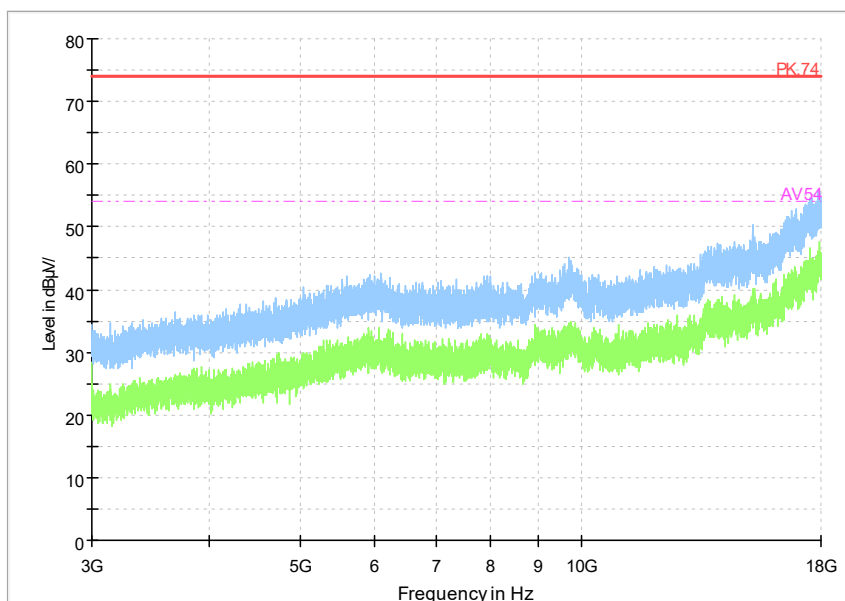
Frequency Range:30MHz-1GHz  
Detector: Av mode and PK mode  
Modulation type: GFSK

Full Spectrum



Frequency Range: 1GHz-3GHz  
Detector: Av mode and PK mode  
Modulation type: GFSK

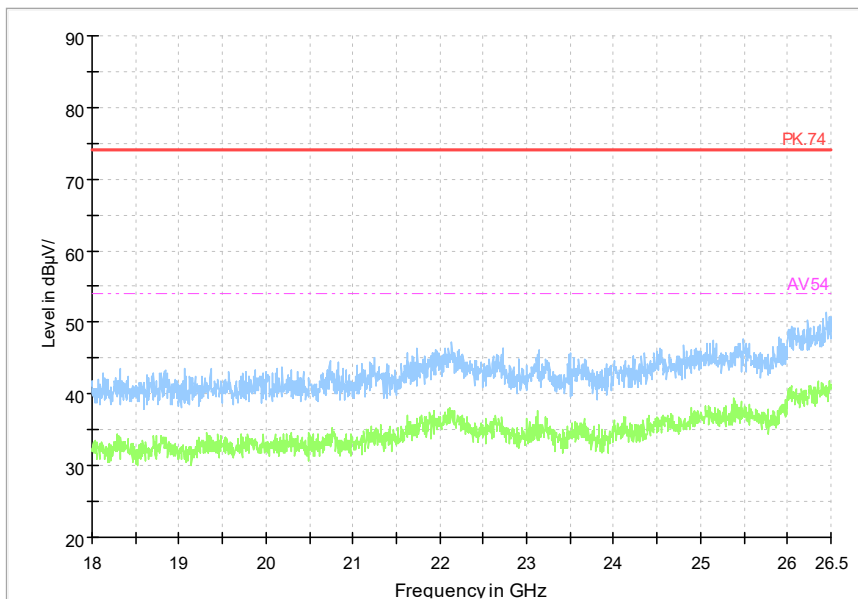
Full Spectrum



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

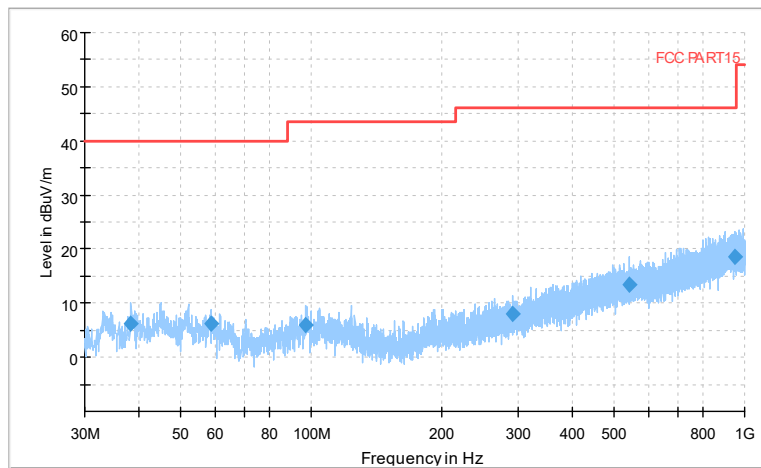


Full Spectrum



Frequency Range: 18GHz-26GHz  
Detector: Av mode and PK mode  
Modulation type: GFSK

Full Spectrum

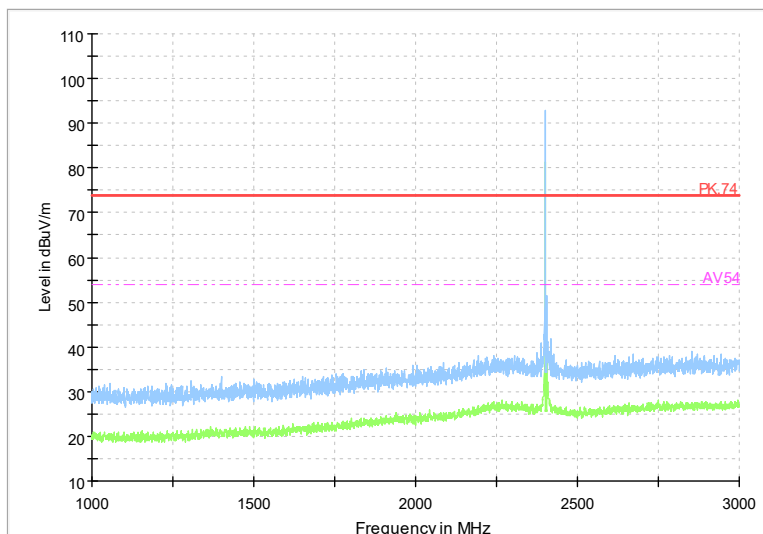


Preview Result 1-PK+    FCC PART15    Final\_Result QPK

Comment

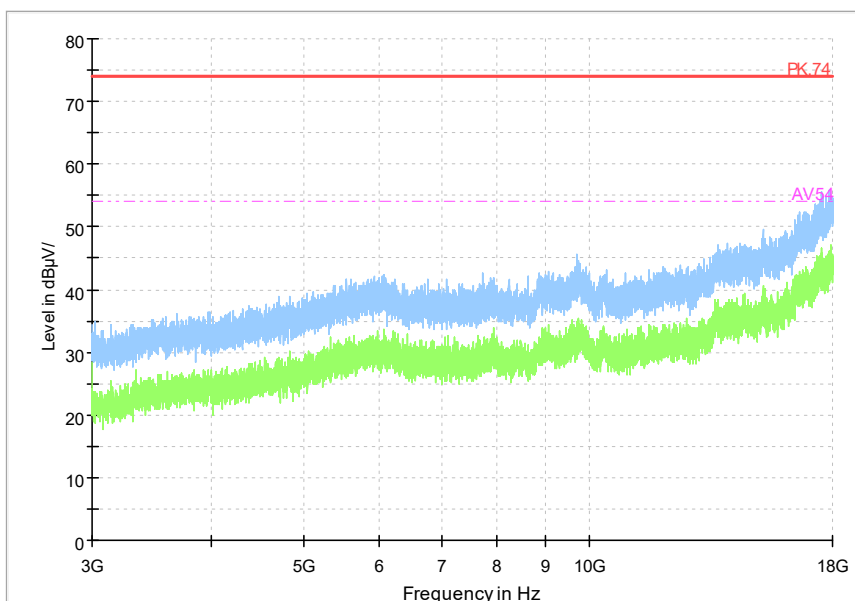
Frequency Range:30MHz-1GHz  
Detector: Av mode and PK mode  
Modulation type:  $\pi/4$ DQPSK

Full Spectrum



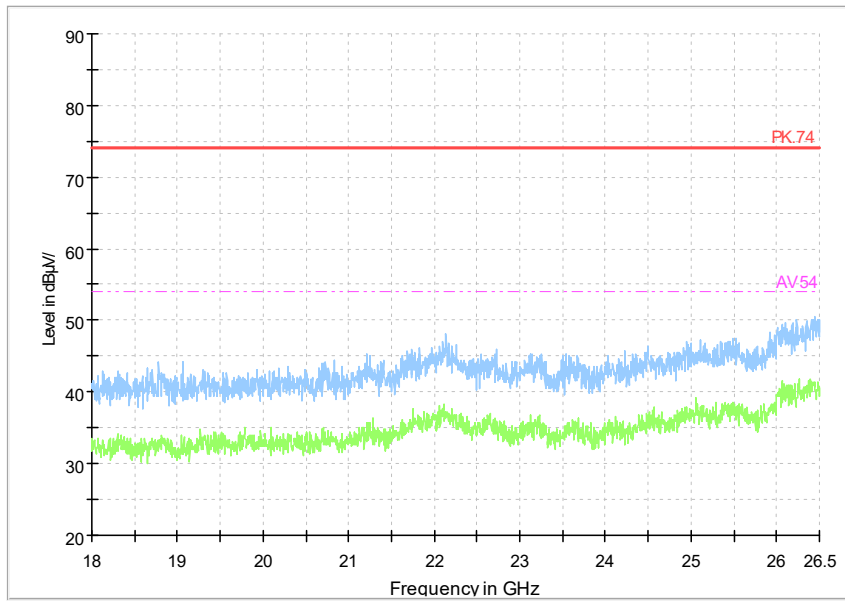
Frequency Range: 1GHz-3GHz  
Detector: Av mode and PK mode  
Modulation type:  $\pi/4$ DQPSK

Full Spectrum



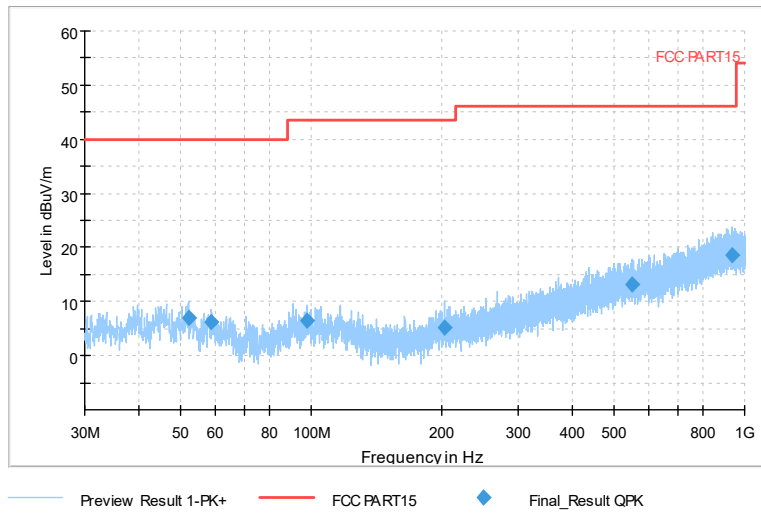
Frequency Range: 3GHz-18GHz  
Detector: Av mode and PK mode  
Modulation type:  $\pi/4$ DQPSK

Full Spectrum



Frequency Range: 18GHz-26GHz  
Detector: Av mode and PK mode  
Modulation type:  $\pi/4$ DQPSK

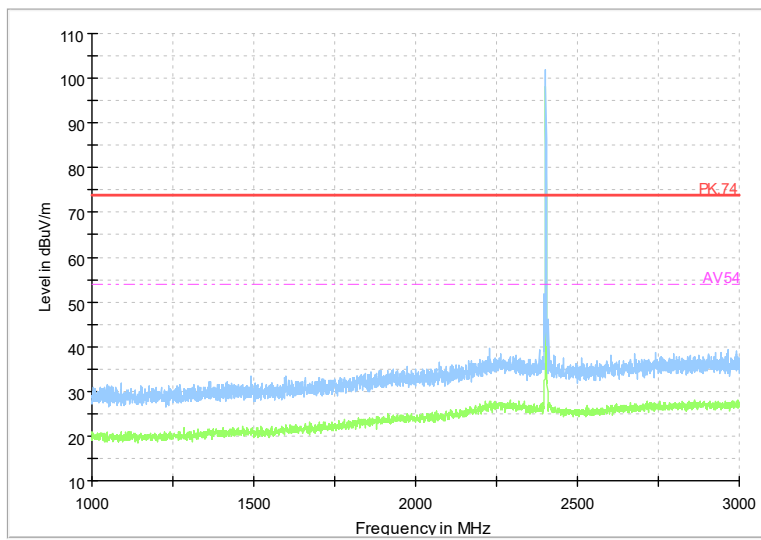
Full Spectrum



Comment

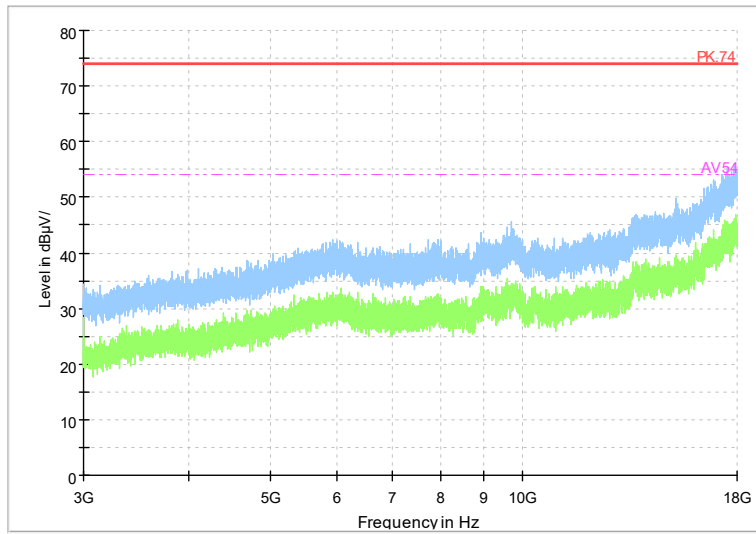
Frequency Range:30MHz-1GHz  
Detector: Av mode and PK mode  
Modulation type: 8DPSK

Full Spectrum



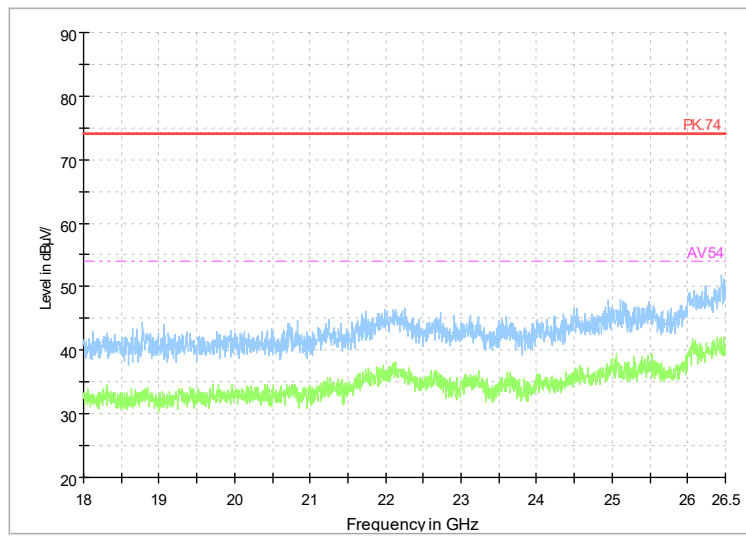
Frequency Range: 1GHz-3GHz  
Detector: Av mode and PK mode  
Modulation type: 8DPSK

Full Spectrum



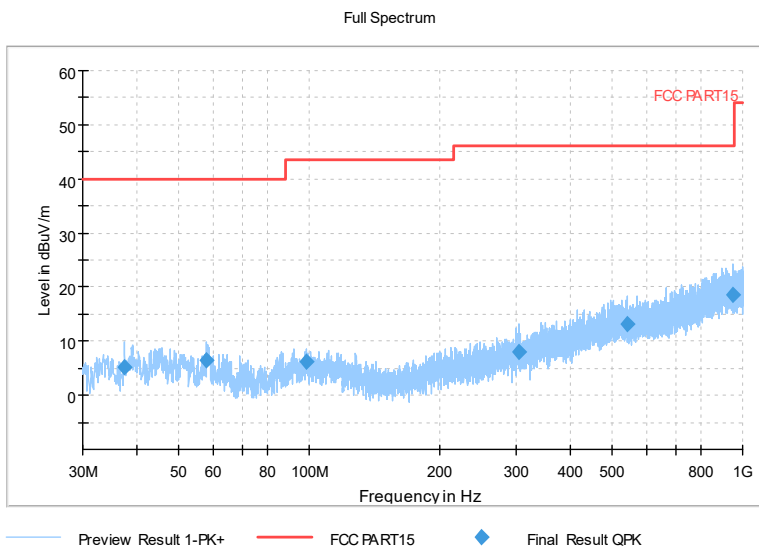
Frequency Range: 3GHz-18GHz  
Detector: Av mode and PK mode  
Modulation type: 8DPSK

Full Spectrum



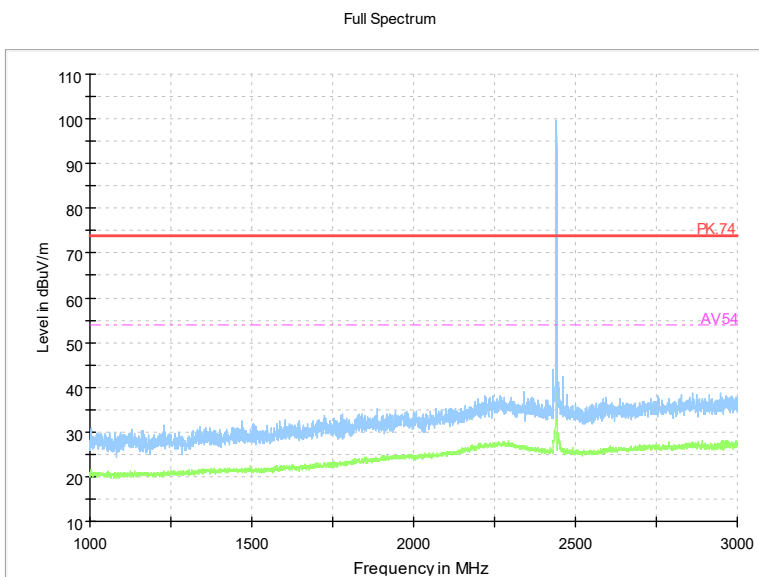
Frequency Range: 18GHz-26GHz  
Detector: Av mode and PK mode  
Modulation type: 8DPSK

Carrier frequency (MHz): 2440  
Channel No.:39



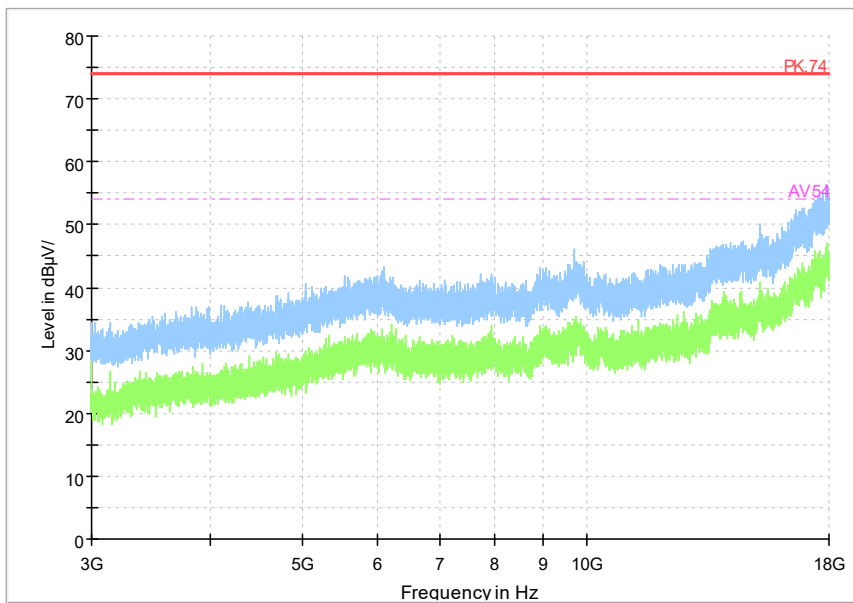
Comment

Frequency Range: 30MHz-1GHz  
Detector: Av mode and PK mode  
Modulation type: GFSK



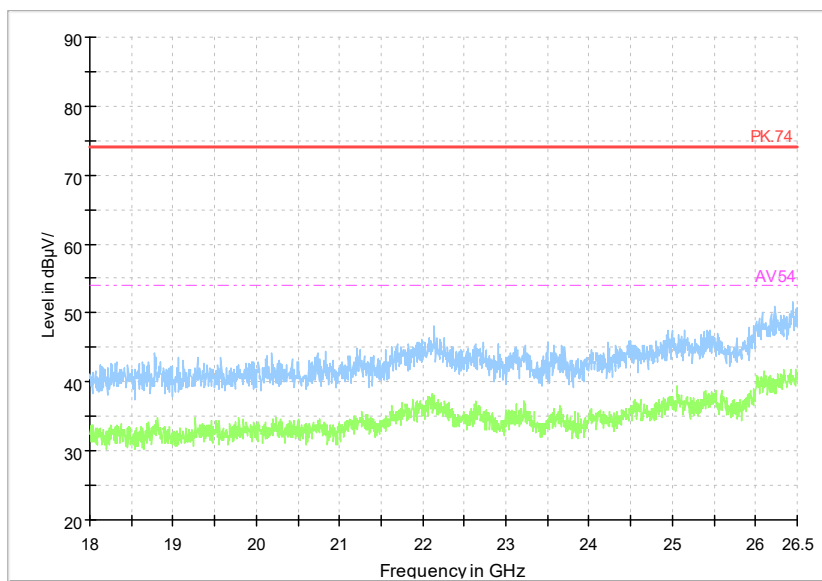
Frequency Range: 1GHz-3GHz  
Detector: Av mode and PK mode  
Modulation type: GFSK

Full Spectrum

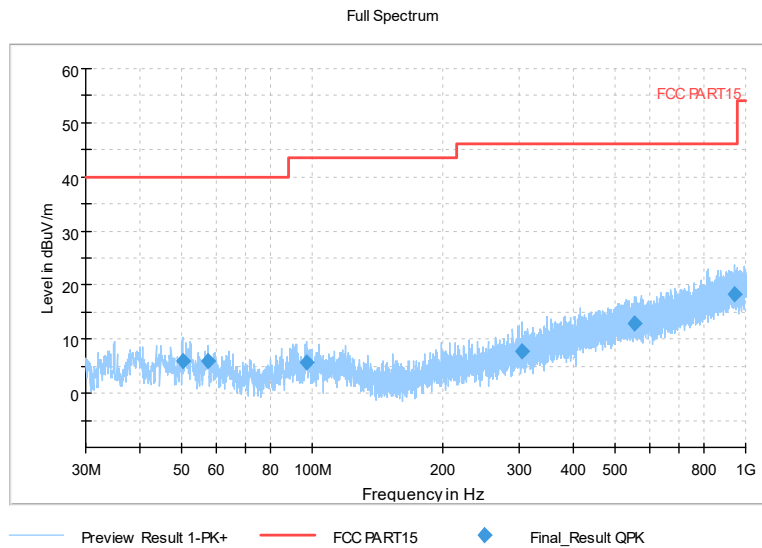


Frequency Range: 3GHz-18GHz  
Detector: Av mode and PK mode  
Modulation type: GFSK

Full Spectrum

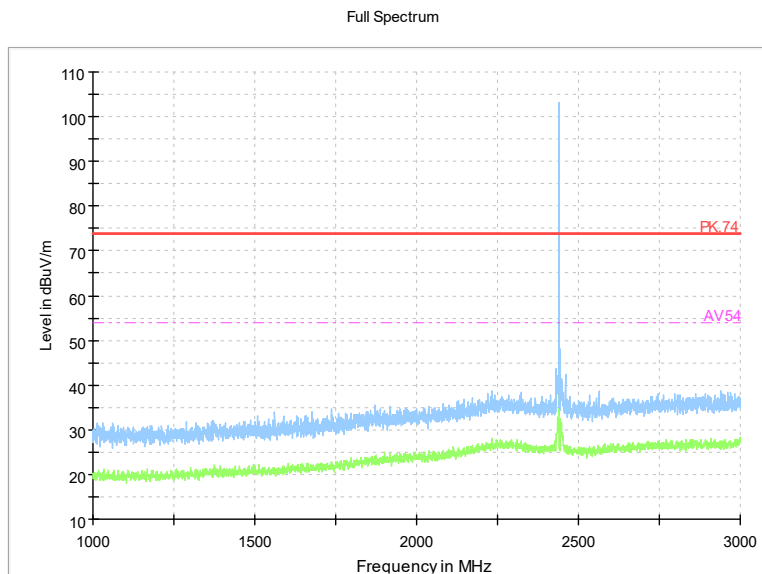


Frequency Range: 18GHz-26GHz  
Detector: Av mode and PK mode  
Modulation type: GFSK



Comment

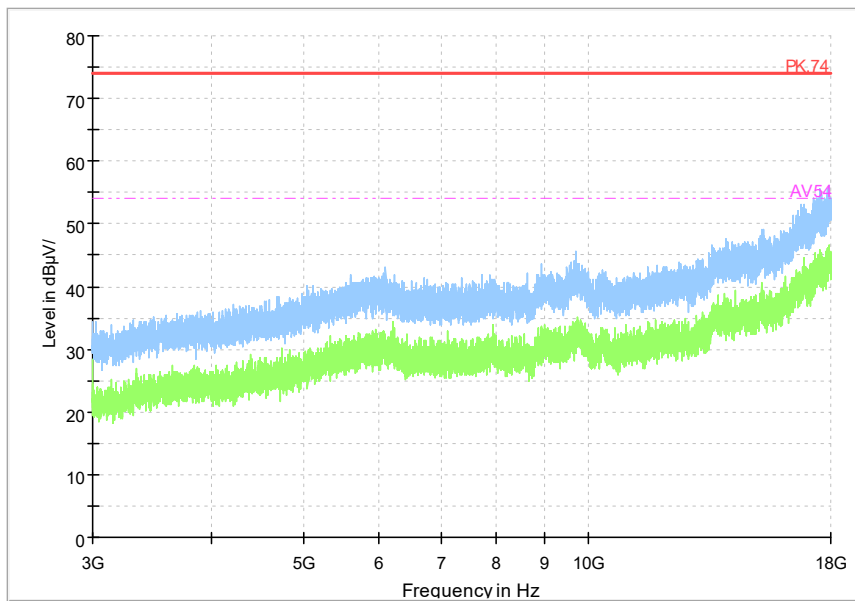
Frequency Range: 30MHz-1GHz  
Detector: Av mode and PK mode  
Modulation type:  $\pi/4$ DQPSK



Frequency Range: 1GHz-3GHz  
Detector: Av mode and PK mode  
Modulation type:  $\pi/4$ DQPSK

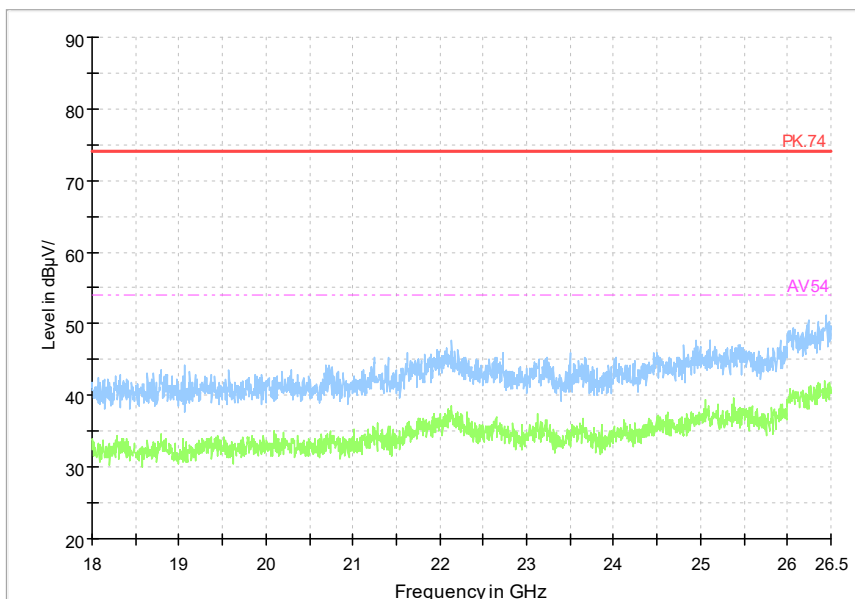


Full Spectrum



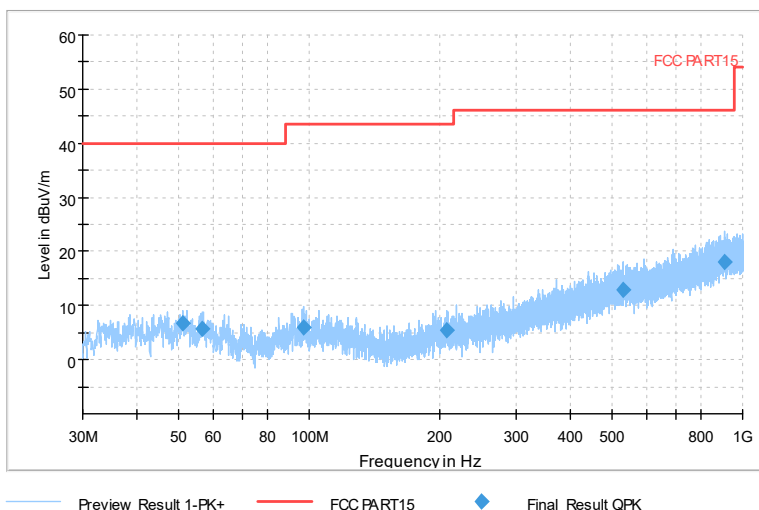
Frequency Range: 3GHz-18GHz  
Detector: Av mode and PK mode  
Modulation type:  $\pi/4$ DQPSK

Full Spectrum



Frequency Range: 18GHz-26GHz  
Detector: Av mode and PK mode  
Modulation type:  $\pi/4$ DQPSK

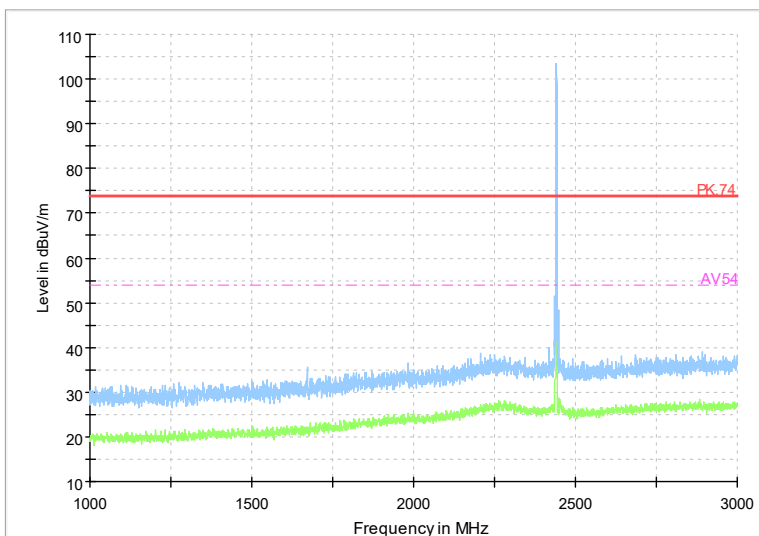
Full Spectrum



Comment

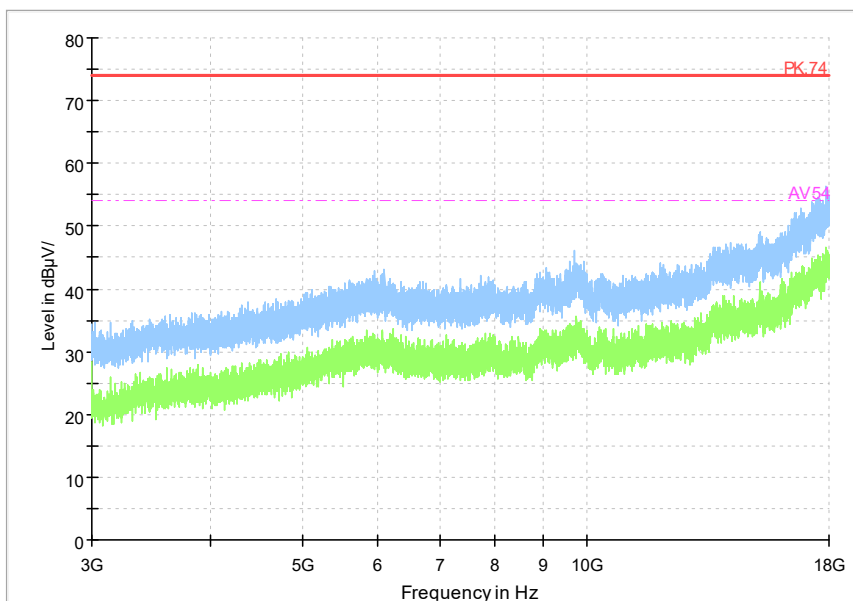
Frequency Range: 30MHz-1GHz  
 Detector: Av mode and PK mode  
 Modulation type: 8DPSK

Full Spectrum



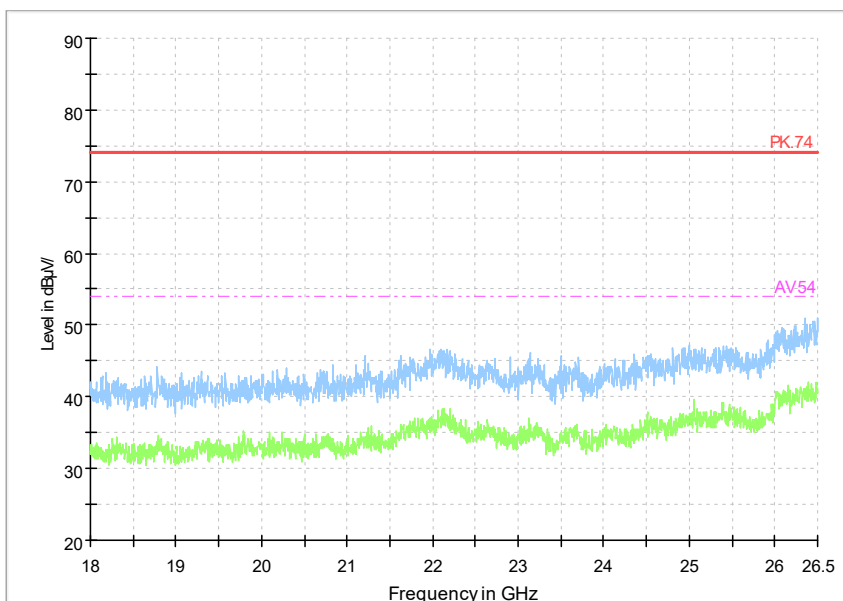
Frequency Range: 1GHz-3GHz  
 Detector: Av mode and PK mode  
 Modulation type: 8DPSK

Full Spectrum



Frequency Range: 3GHz-18GHz  
Detector: Av mode and PK mode  
Modulation type: 8DPSK

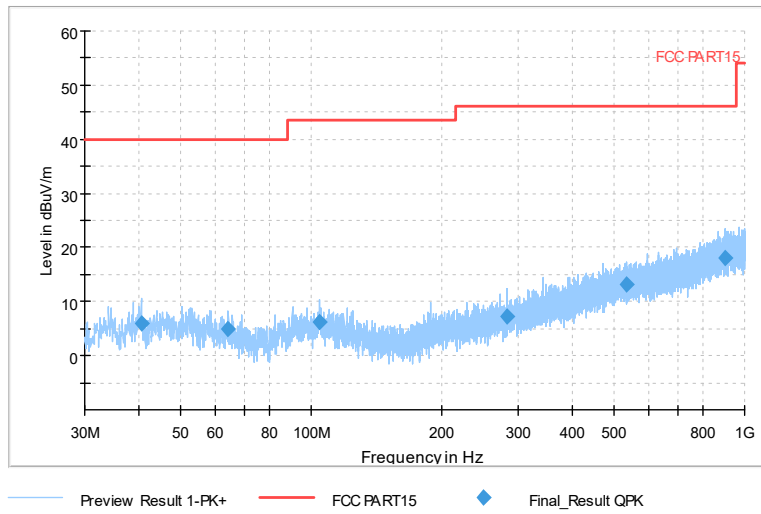
Full Spectrum



Frequency Range: 18GHz-26GHz  
Detector: Av mode and PK mode  
Modulation type: 8DPSK

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

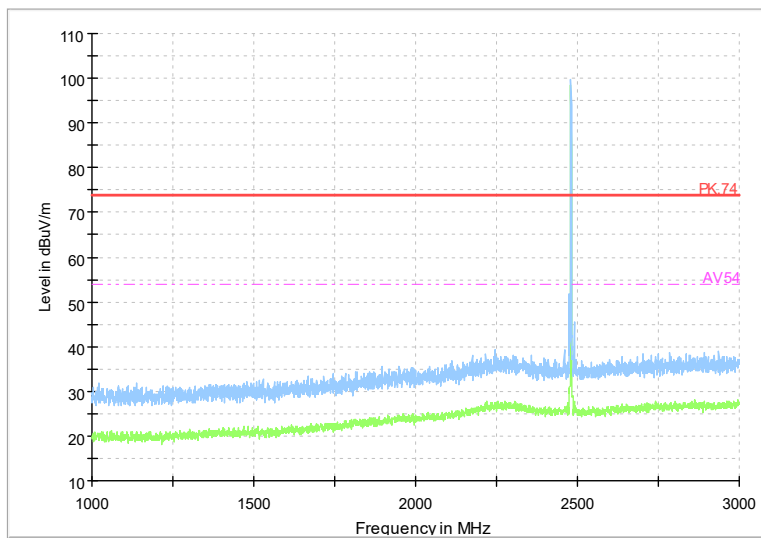
Full Spectrum



Comment

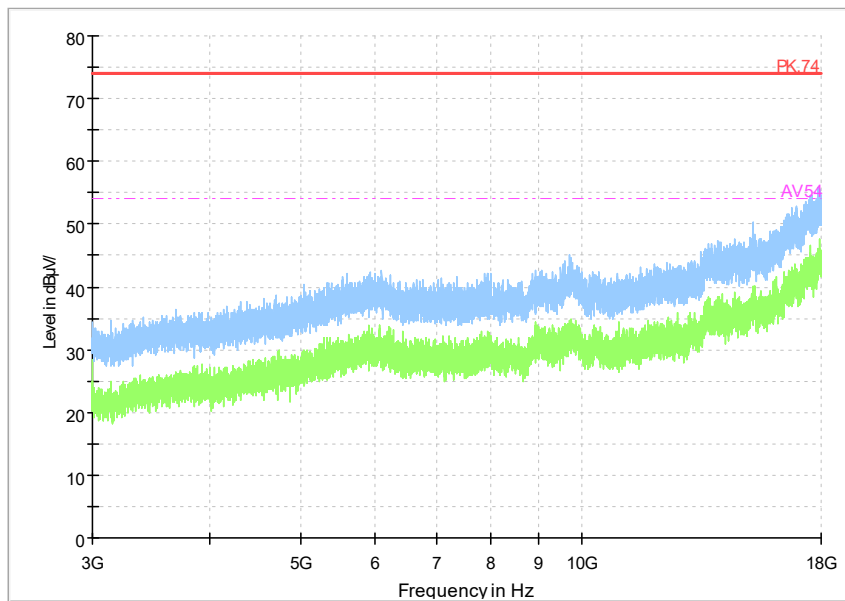
Frequency Range:30MHz-1GHz  
 Detector: Av mode and PK mode  
 Modulation type: GFSK

Full Spectrum



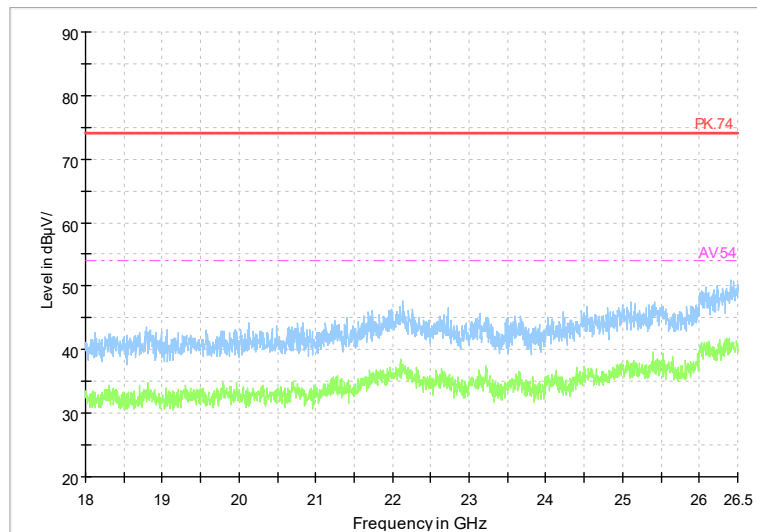
Frequency Range: 1GHz-3GHz  
 Detector: Av mode and PK mode  
 Modulation type: GFSK

Full Spectrum



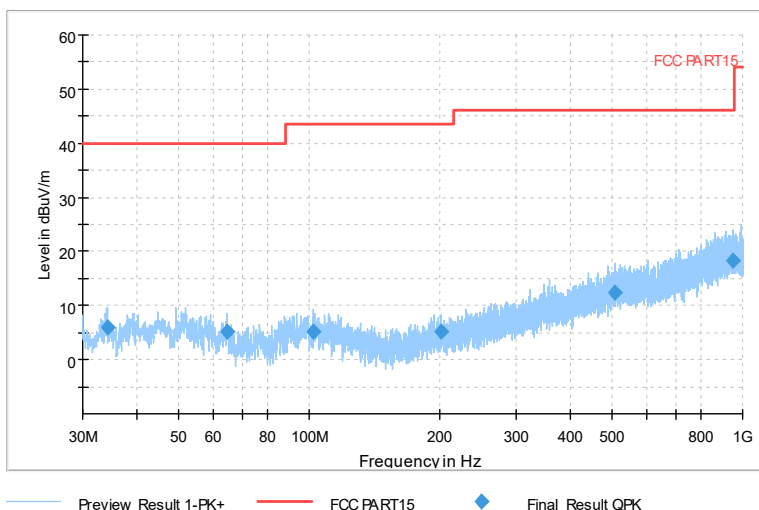
Frequency Range: 3GHz-18GHz  
Detector: Av mode and PK mode  
Modulation type: GFSK

Full Spectrum



Frequency Range: 18GHz-26GHz  
Detector: Av mode and PK mode  
Modulation type: GFSK

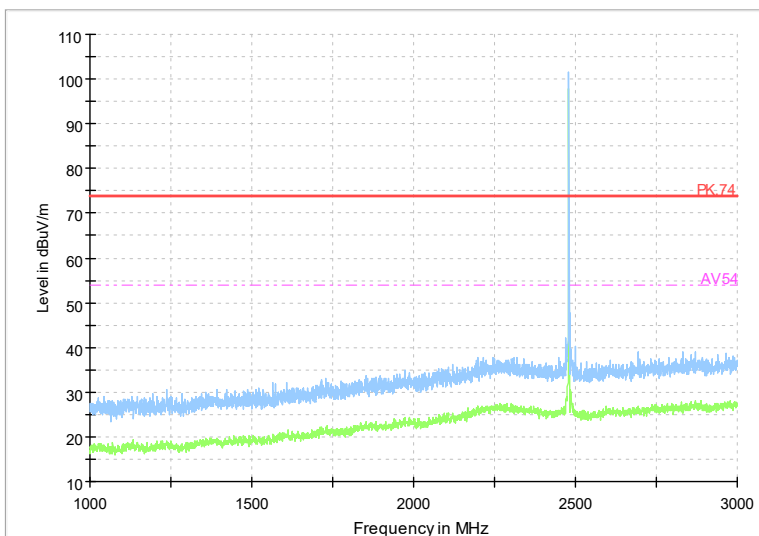
Full Spectrum



Comment

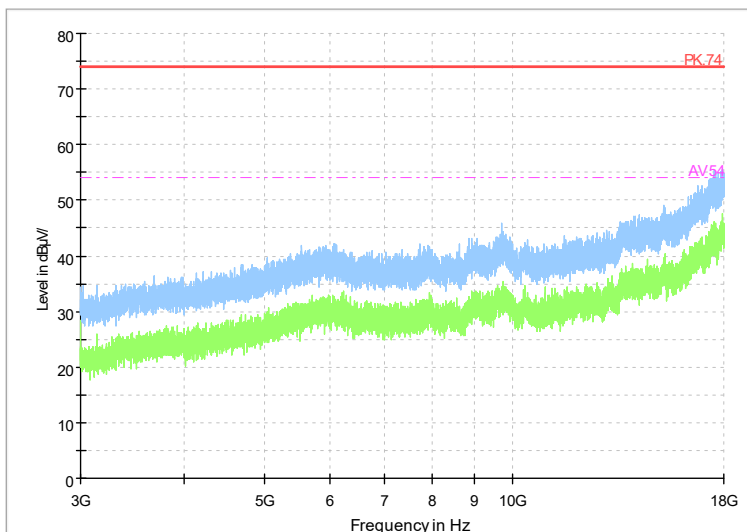
Frequency Range: 30MHz-1GHz  
 Detector: Av mode and PK mode  
 Modulation type:  $\pi/4$ DQPSK

Full Spectrum



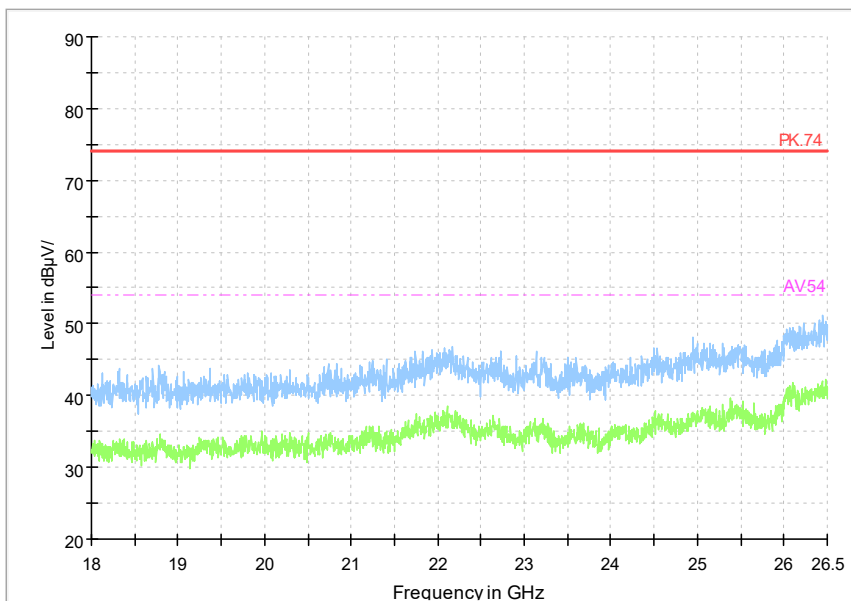
Frequency Range: 1GHz-3GHz  
 Detector: Av mode and PK mode  
 Modulation type:  $\pi/4$ DQPSK

Full Spectrum



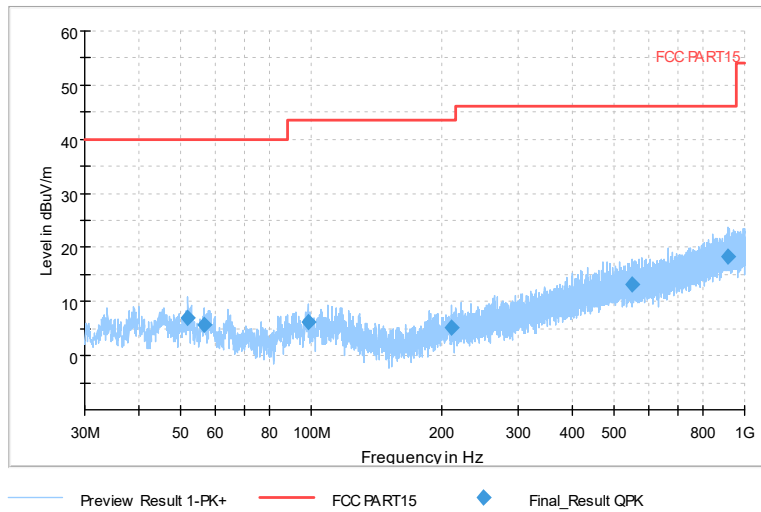
Frequency Range: 3GHz-18GHz  
Detector: Av mode and PK mode  
Modulation type:  $\pi/4$ DQPSK

Full Spectrum



Frequency Range: 18GHz-26GHz  
Detector: Av mode and PK mode  
Modulation type:  $\pi/4$ DQPSK

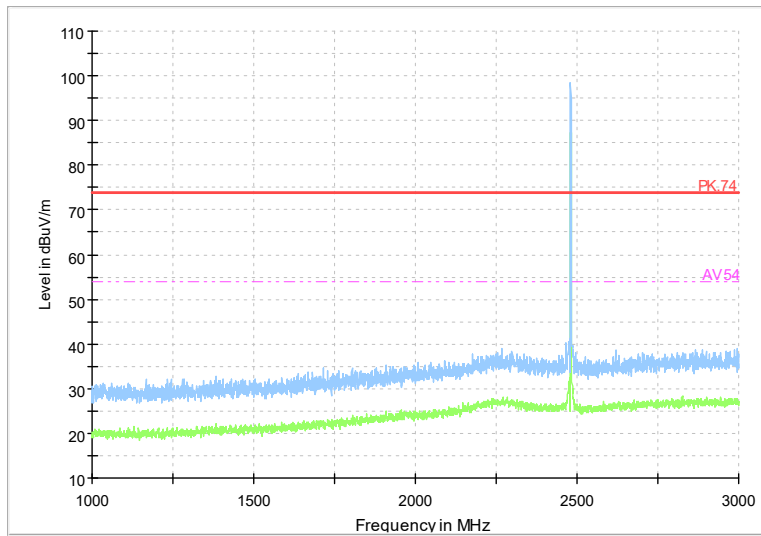
Full Spectrum



Comment

Frequency Range: 30MHz-1GHz  
 Detector: Av mode and PK mode  
 Modulation type: 8DPSK

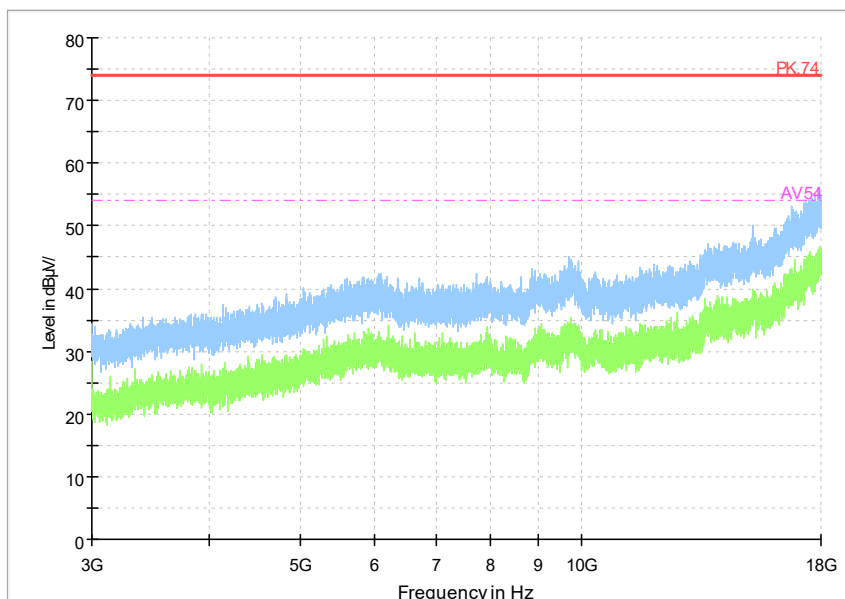
Full Spectrum



Frequency Range: 1GHz-3GHz  
 Detector: Av mode and PK mode  
 Modulation type: 8DPSK

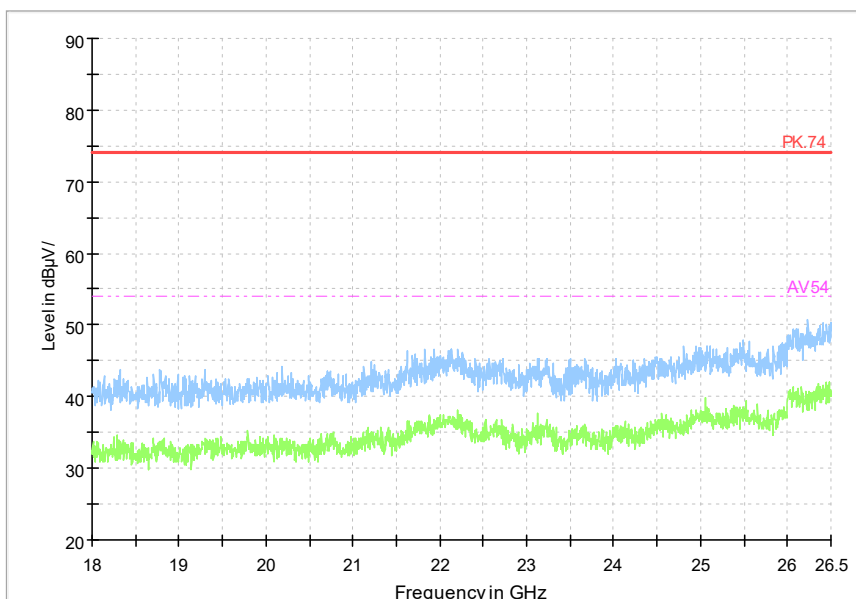


Full Spectrum



Frequency Range: 3GHz-18GHz  
Detector: Av mode and PK mode  
Modulation type: 8DPSK

Full Spectrum



Frequency Range: 18GHz-26GHz  
Detector: Av mode and PK mode  
Modulation type: 8DPSK

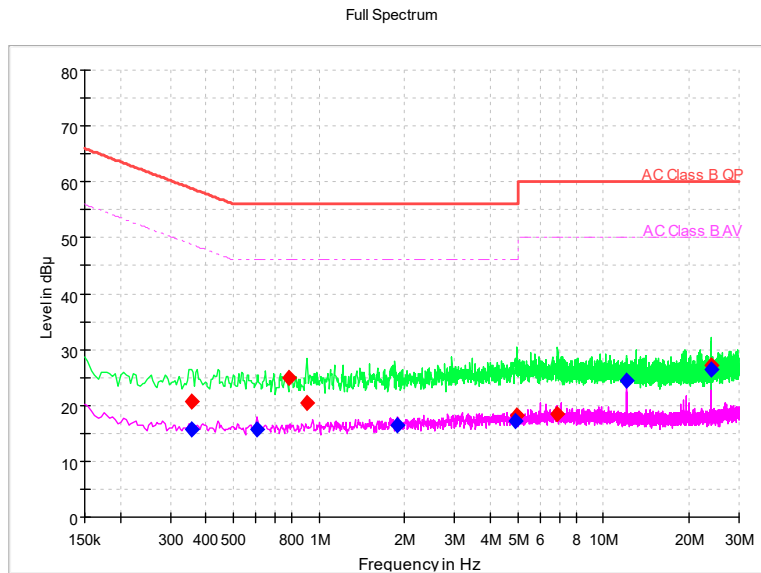
**AC Power line Conducted Emission**

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:  $(20.75dB\mu V) = (-8.95dB\mu V) + (29.7 dB)$ , the corresponding frequency is 0.35469MHz.



**L+N Line**

**MEASUREMENT RESULT:**

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PmeaQuasiPeak (dBμV)	PmeaAverage (dBμV)
0.35469	20.75	---	58.85	38.11	N	29.7	-8.95	---
0.35469	---	15.8	48.85	33.05	L1	29.8	---	-14
0.60201	---	15.76	46	30.24	N	29.7	---	-13.94
0.78538	24.94	---	56	31.06	N	29.7	-4.76	---
0.90478	20.52	---	56	35.48	N	29.7	-9.18	---
1.89409	---	16.4	46	29.6	N	29.7	---	-13.3
4.89189	---	17.29	46	28.71	N	29.8	---	-12.51
4.97717	18.17	---	56	37.83	N	29.8	-11.63	---
6.90889	18.54	---	60	41.46	L1	29.9	-11.36	---
12.0388	---	24.38	50	25.62	L1	30	---	-5.62
24.03	---	26.52	50	23.48	L1	30	---	-3.48
24.03	27.12	---	60	32.88	L1	30	-2.88	---

---End of Test Report---