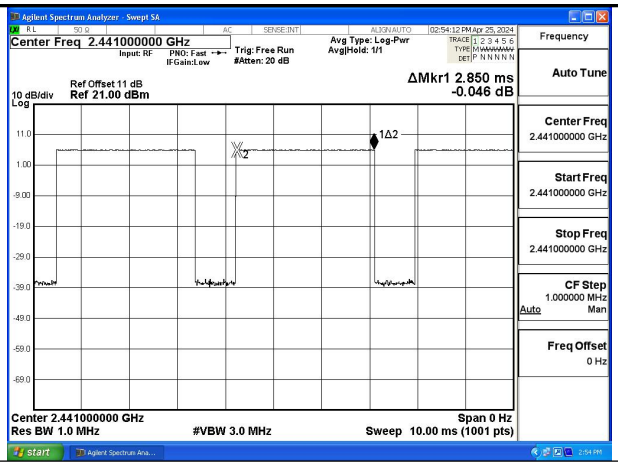
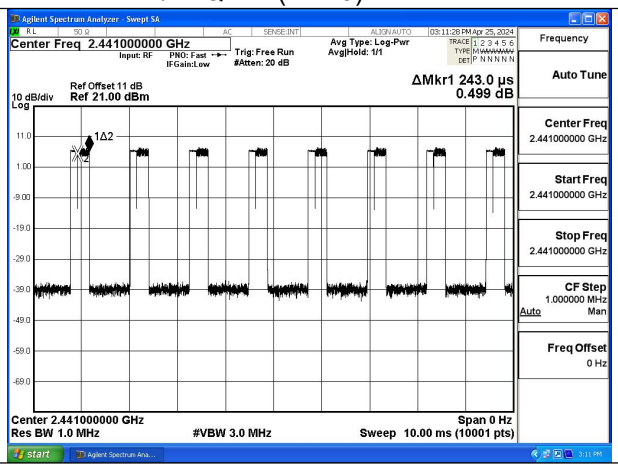
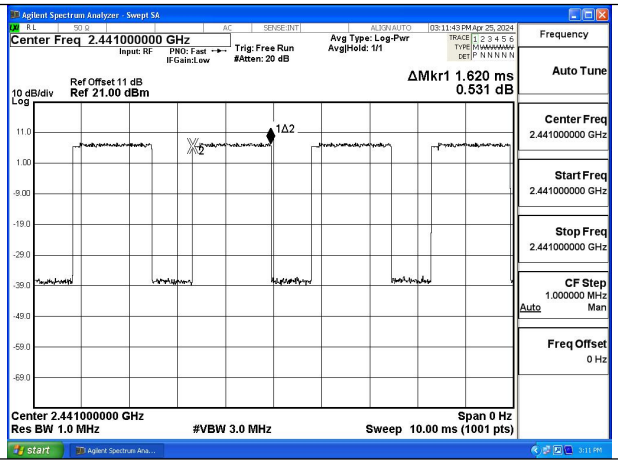


Test Mode:GFSK(DH5) 2441MHz

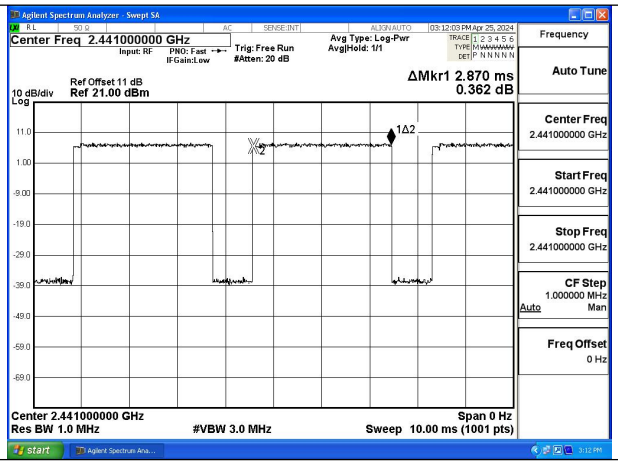
Test Mode: π/4DQPSK(2DH5)



Test Mode:π/4DQPSK(2DH1) 2441MHz

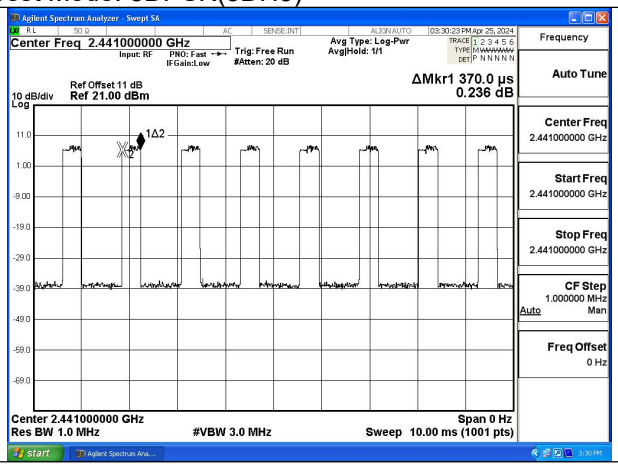


Test Mode:π/4DQPSK(2DH3) 2441MHz

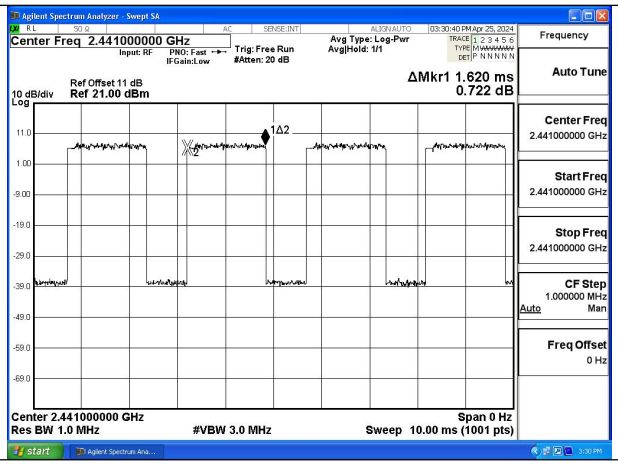


Test Mode:π/4DQPSK(2DH5) 2441MHz

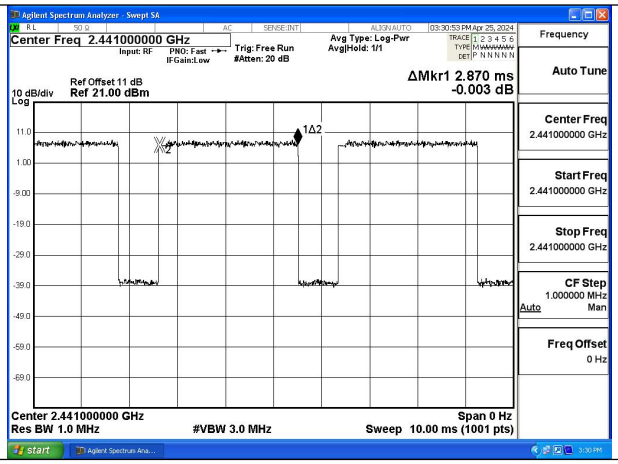
Test Mode: 8DPSK(3DH5)



Test Mode:8DPSK(3DH1) 2441MHz



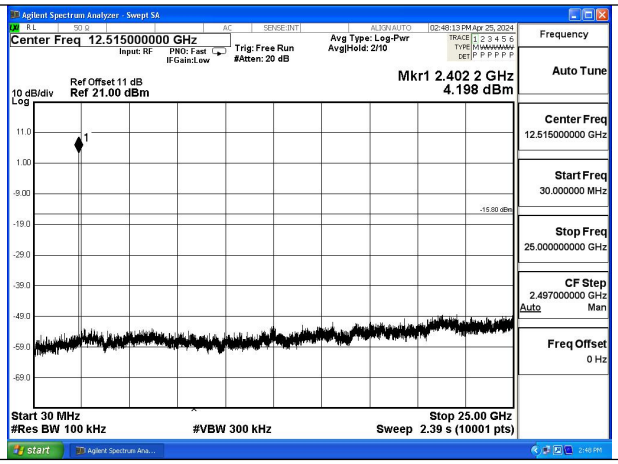
Test Mode:8DPSK(3DH3) 2441MHz



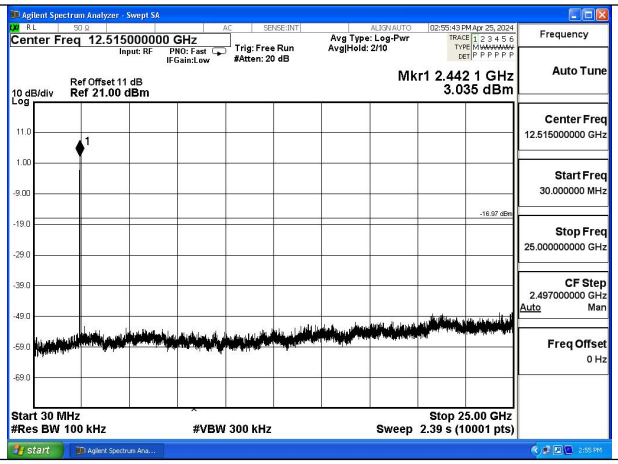
Test Mode:8DPSK(3DH5) 2441MHz

6 Conducted Out of band emission measurement

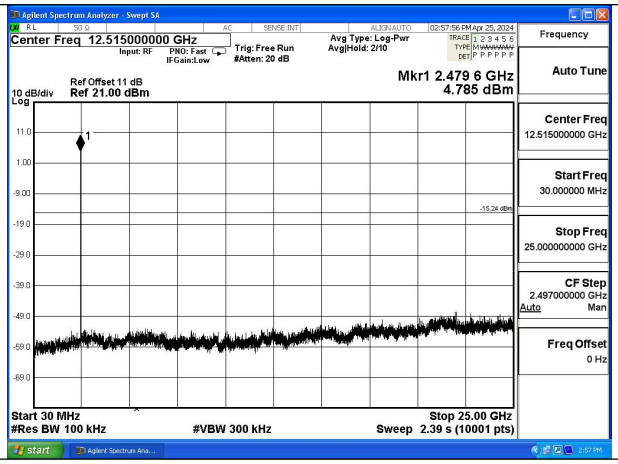
Test Mode: GFSK



CH0(Hopping off)

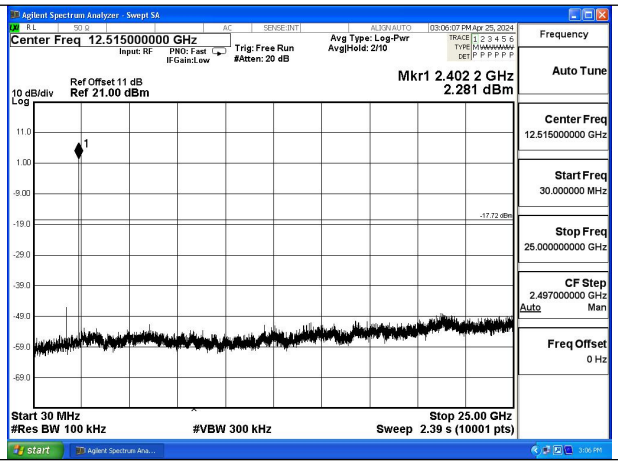


CH39(Hopping off)

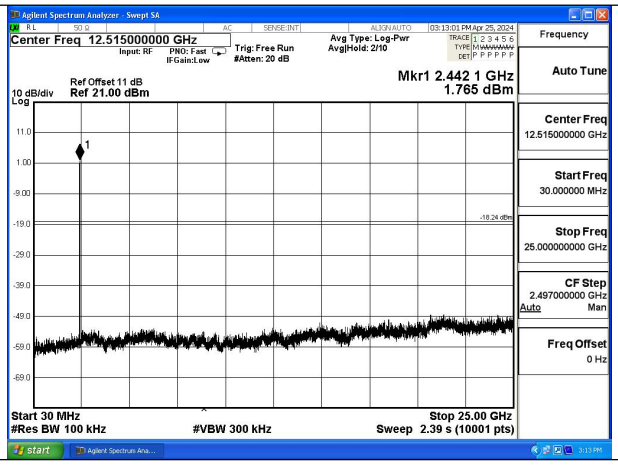


CH78(Hopping off)

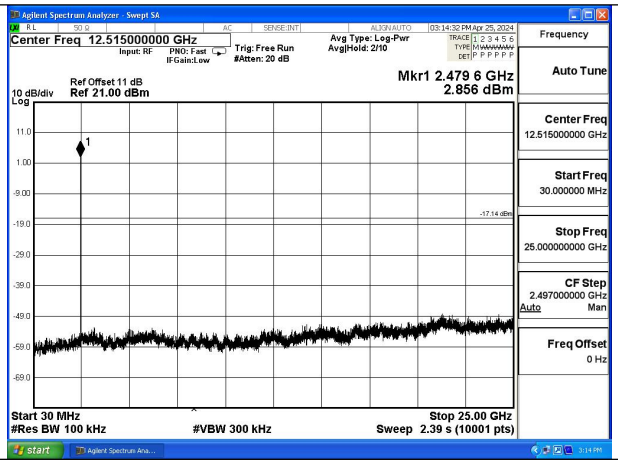
Test Mode: π/4DQPSK



CH0(Hopping off)

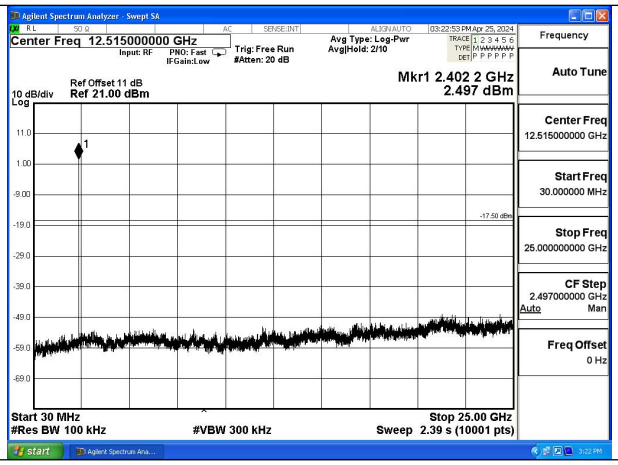


CH39(Hopping off)

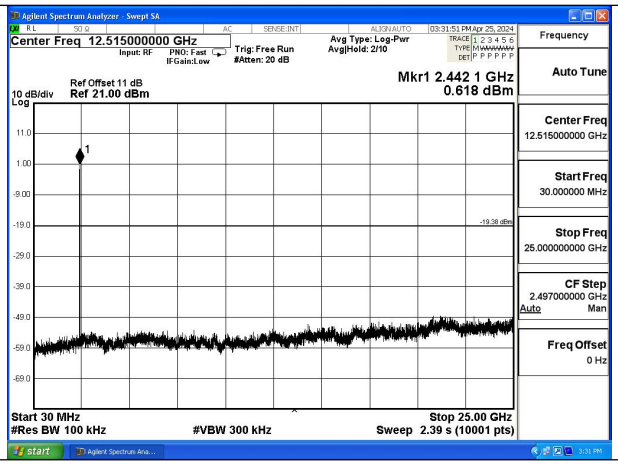


CH78(Hopping off)

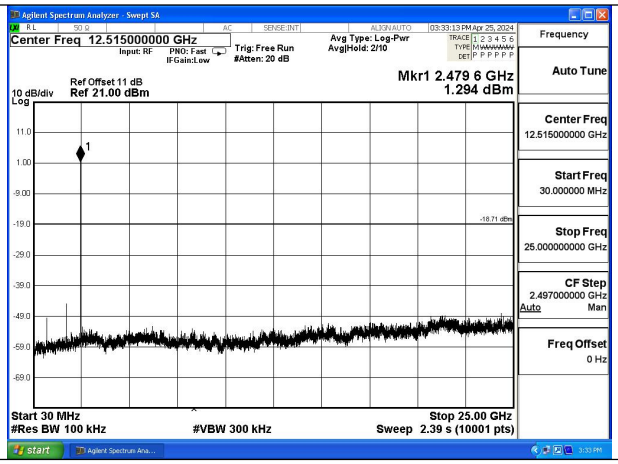
Test Mode: 8DPSK



CH0(Hopping off)



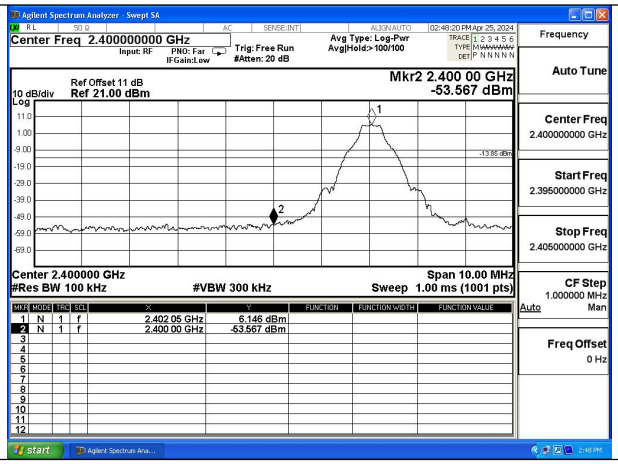
CH39(Hopping off)



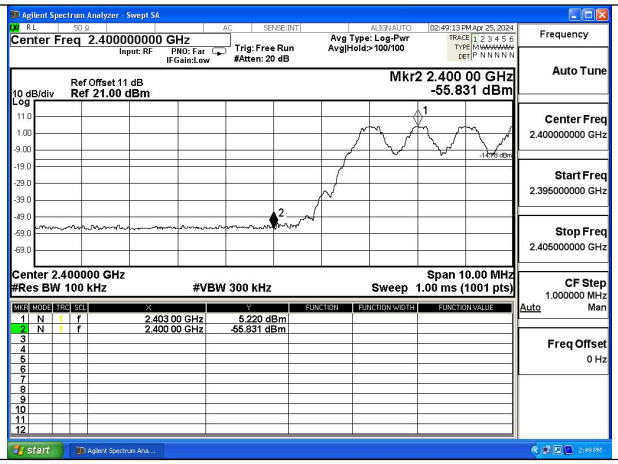
CH78(Hopping off)

7 Band Edge measurement

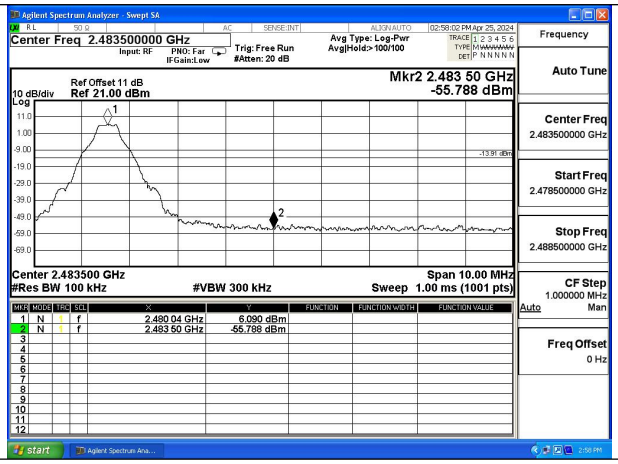
Test Mode: GFSK



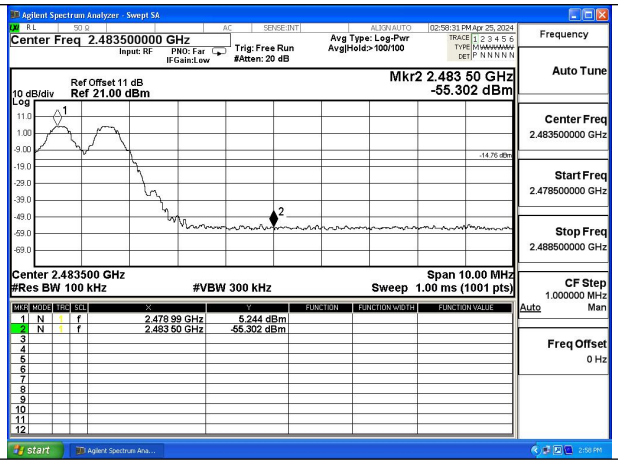
CH0(Hopping off)



CH0(Hopping on)

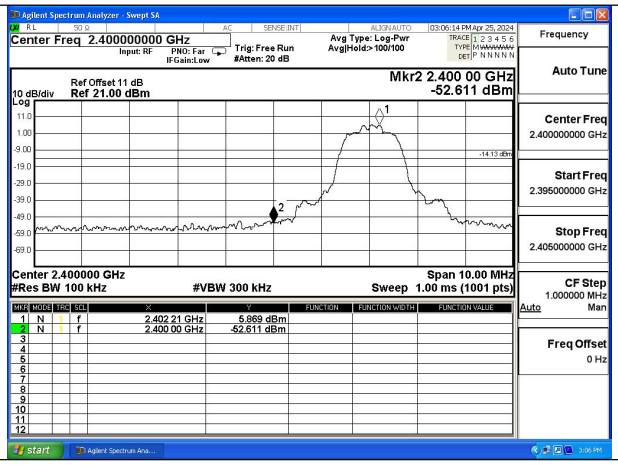


CH78(Hopping off)

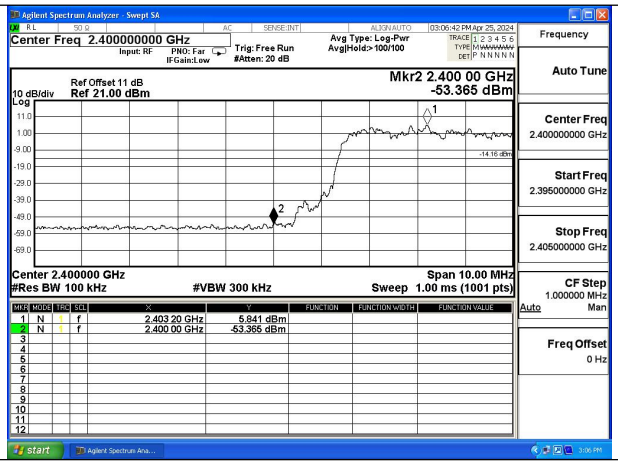


CH78(Hopping on)

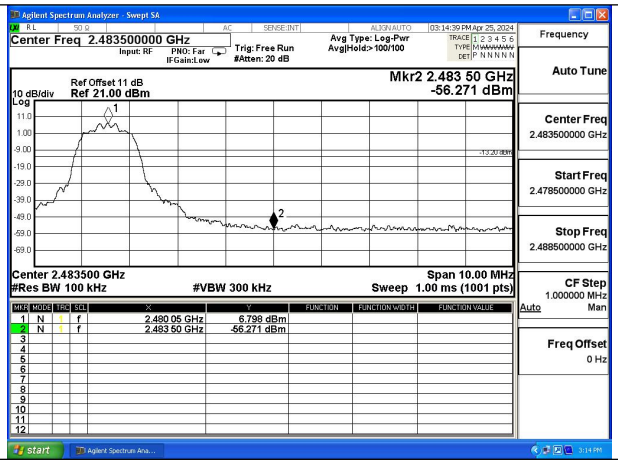
Test Mode: π/4DQPSK



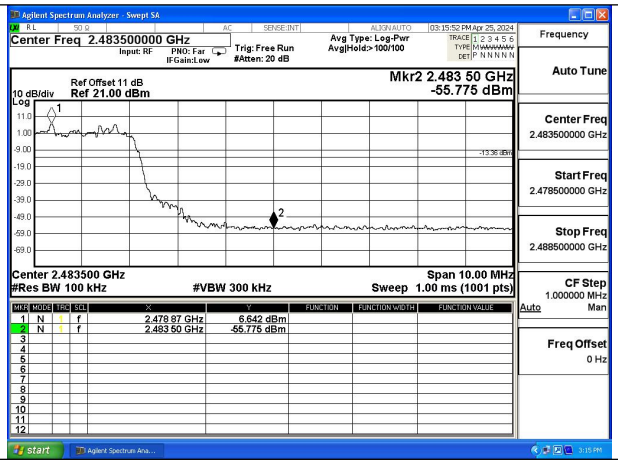
CH0(Hopping off)



CH0(Hopping on)

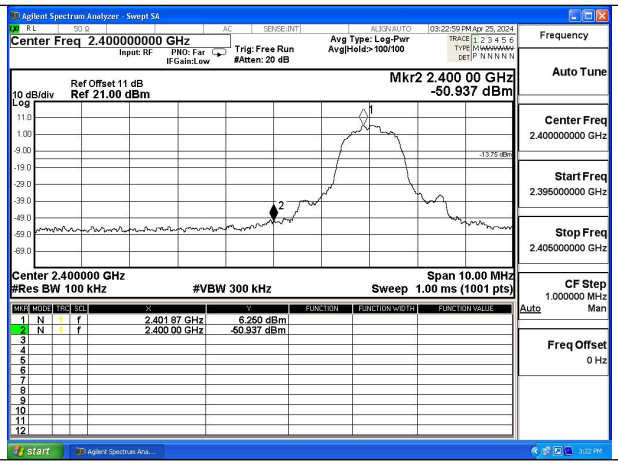


CH78(Hopping off)

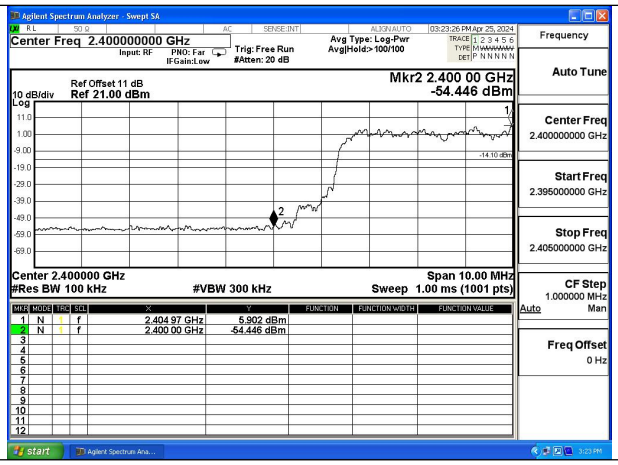


CH78(Hopping on)

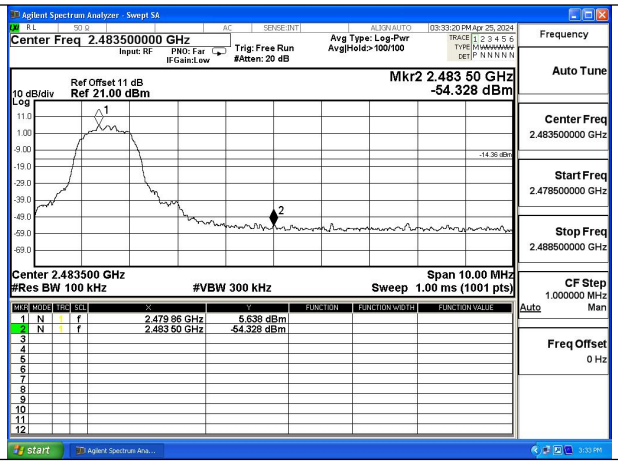
Test Mode: 8DPSK



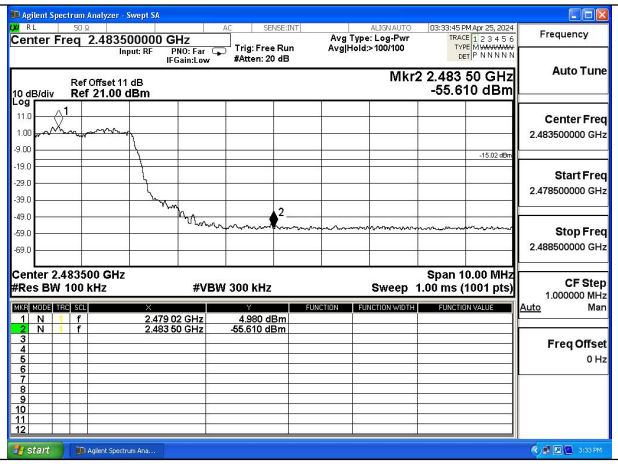
CH0(Hopping off)



CH0(Hopping on)



CH78(Hopping off)



CH78(Hopping on)

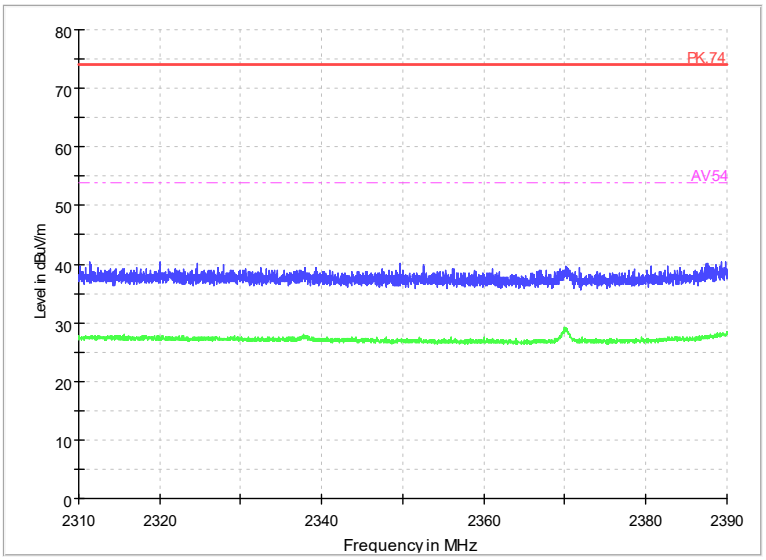
APPENDIX B – TEST DATA OF RADIATED EMISSION

Note：The worst channel results are reflected in the report

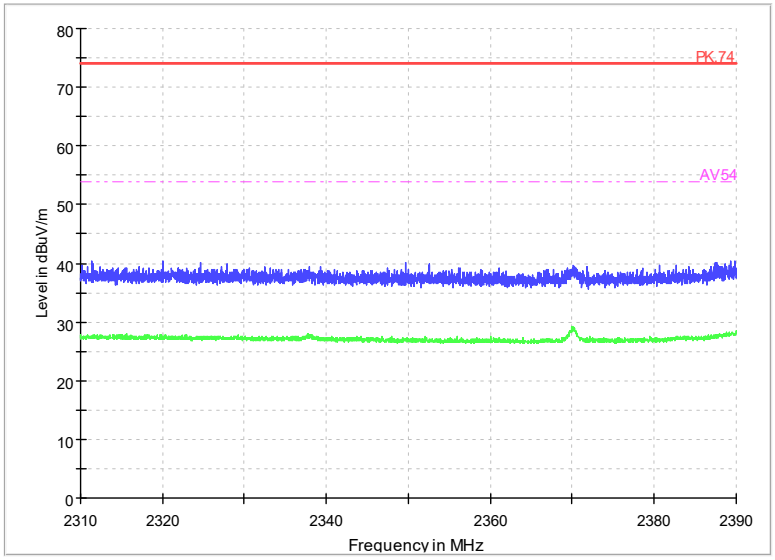
Note: The scanned graph represents the maximum of both horizontal and vertical polarizations and is not a single horizontal or vertical polarization scan.

Radiated Emission Band Edge

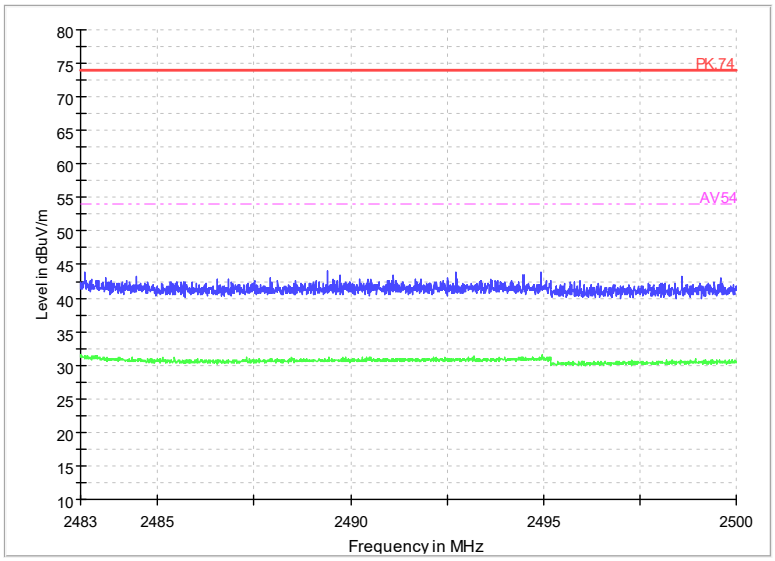
After comparison,the worst case attitude is EUT lay down .



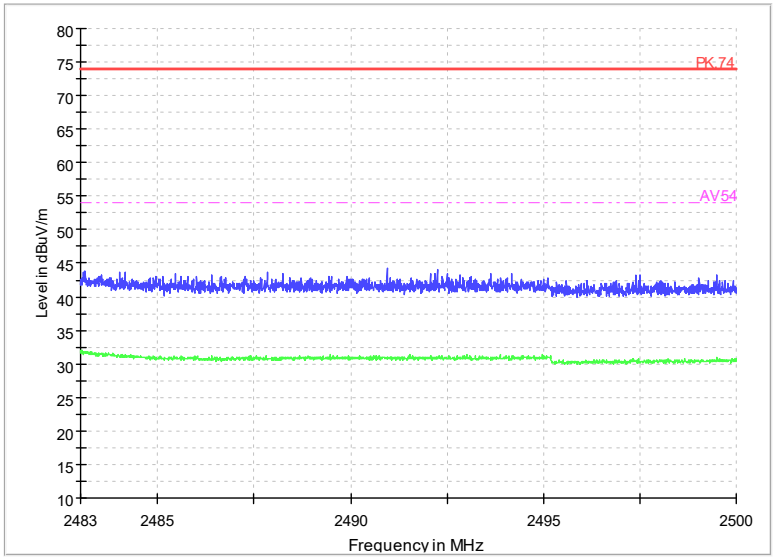
Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: GFSK
Polarity: Vertical



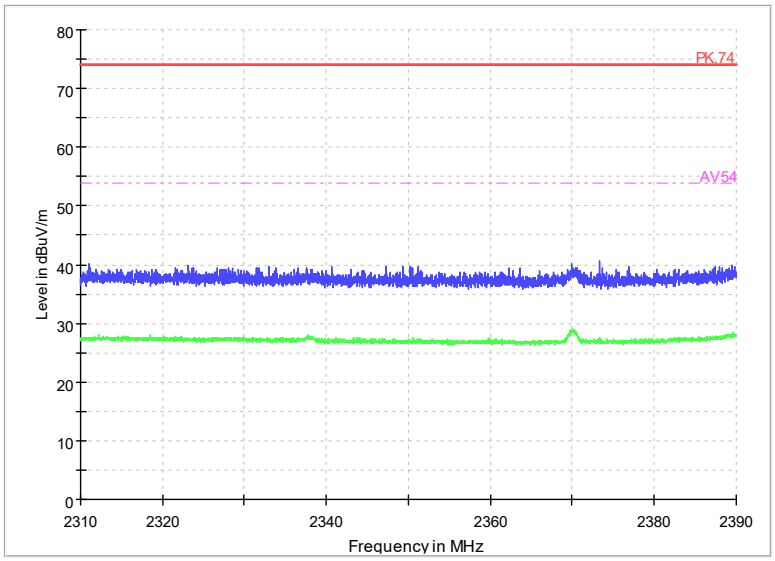
Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: GFSK
Polarity: Horizontal



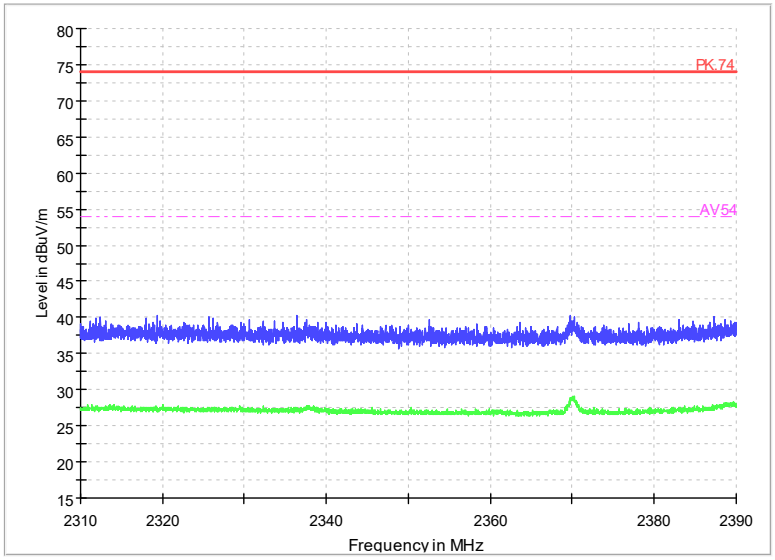
Carrier frequency (MHz): 2480
Channel No.:78
Test Mode: GFSK
Polarity: Vertical



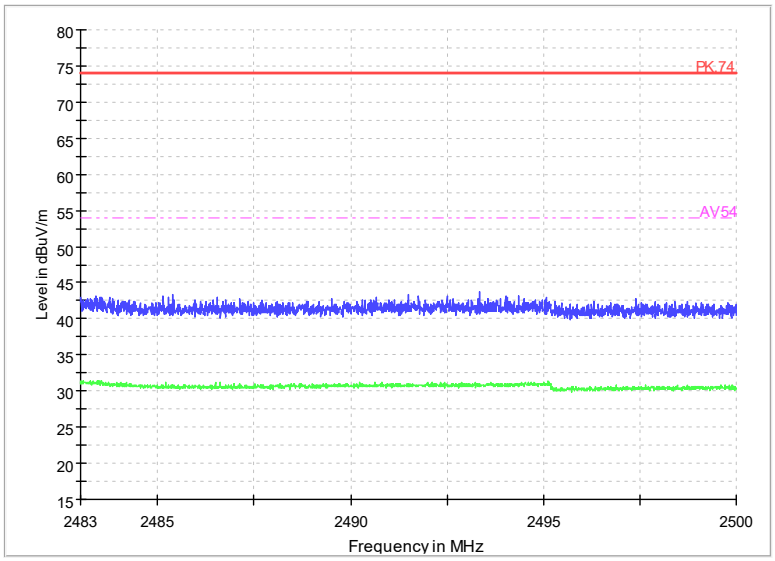
Carrier frequency (MHz): 2480
Channel No.:78
Test Mode: GFSK
Polarity: Horizontal



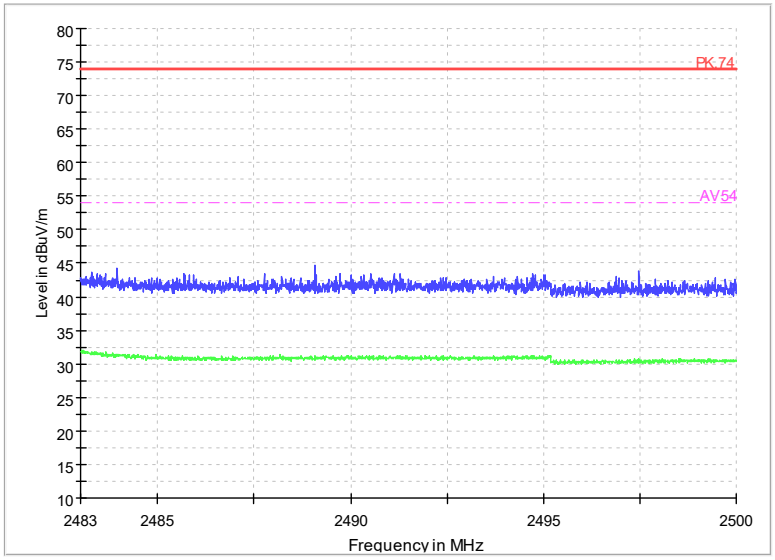
Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: π/4DQPSK
Polarity: Vertical



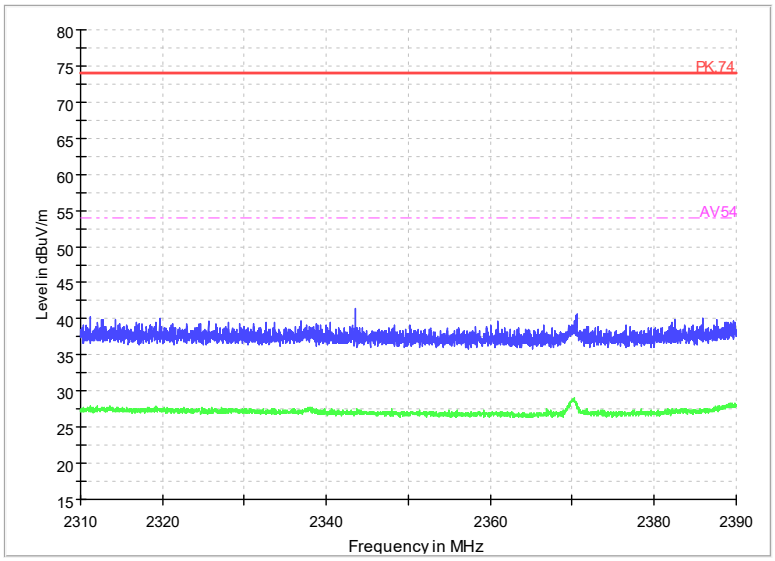
Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: π/4DQPSK
Polarity: Horizontal



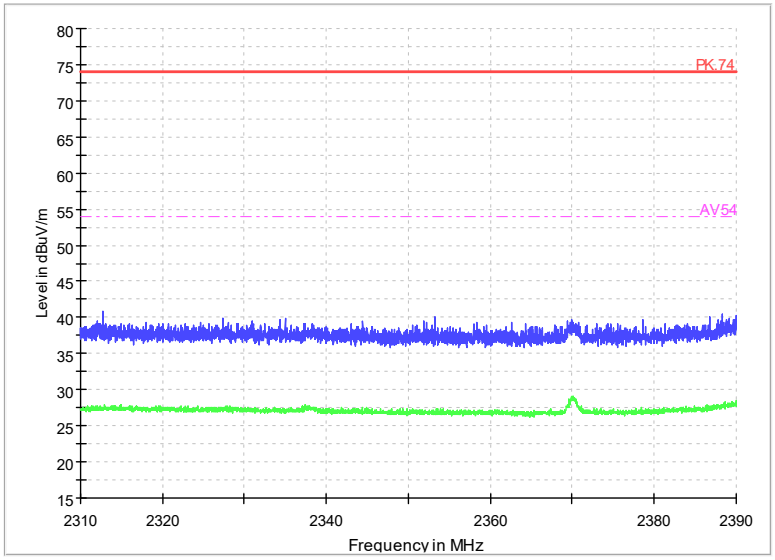
Carrier frequency (MHz): 2480
Channel No.:78
Test Mode:π/4DQPSK
Polarity: Vertical



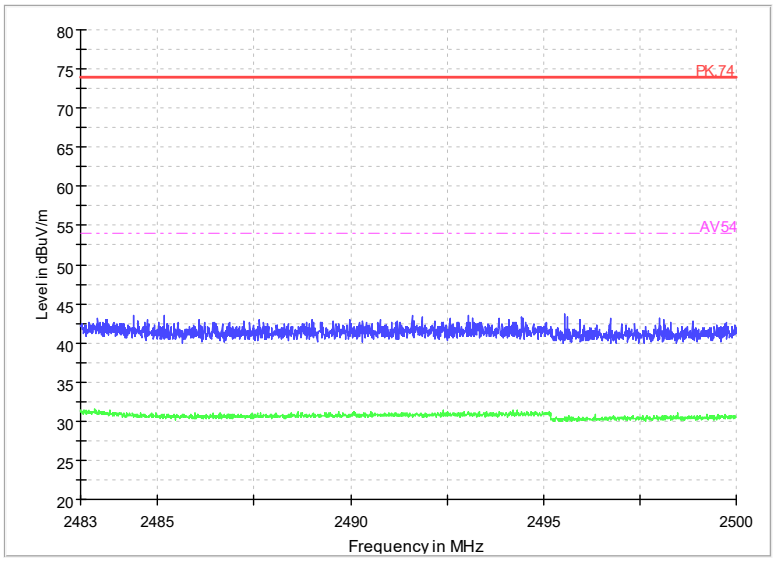
Carrier frequency (MHz): 2480
Channel No.:78
Test Mode: π/4DQPSK
Polarity: Horizontal



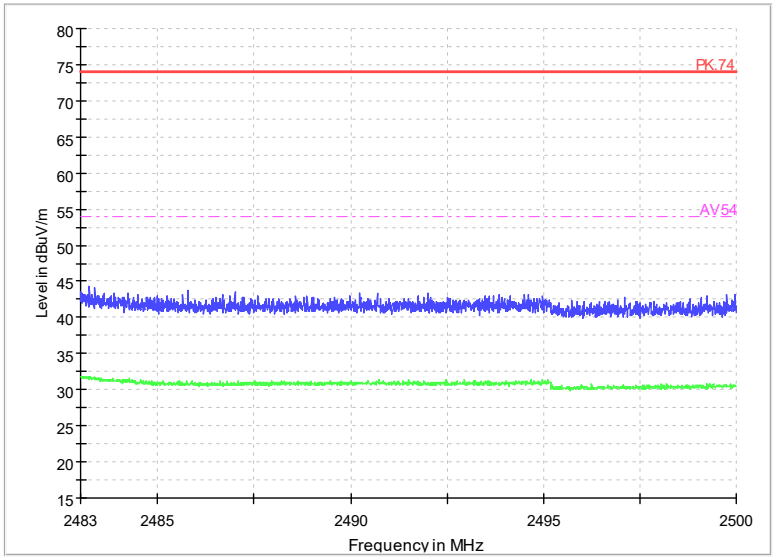
Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: 8DPSK
Polarity: Vertical



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

Test result

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: (18.84dBμV/m) = (38.84dBμV) + (-20dB/m), the corresponding frequency is35.238MHz.

For GFSK
Channel No.:0

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
35.238	18.84	-20	38.84	Vertical	40	21.16
58.9545	5.1	-19.8	24.9	Vertical	40	34.9
105.563	4.61	-19.6	24.21	Vertical	43.5	38.89
282.6365	5.85	-17.6	23.45	Vertical	46	40.15
521.014	10.77	-11.8	22.57	Vertical	46	35.23
913.4275	15.86	-5.3	21.16	Vertical	46	30.14

For π/4DQPSK
Channel No.:0

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
35.1895	17.28	-20	37.28	Vertical	40	22.72
57.645	5.43	-19.6	25.03	Vertical	40	34.57
97.997	5.91	-19.5	25.41	Vertical	43.5	37.59
204.018	3.58	-19.8	23.38	Vertical	43.5	39.92
513.3995	10.75	-11.9	22.65	Vertical	46	35.25
942.9155	16.16	-5.1	21.26	Vertical	46	29.84

For 8DPSK
Channel No.:0

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
35.238	18.82	-20	38.82	Vertical	40	21.18
58.4695	5.48	-19.7	25.18	Vertical	40	34.52
111.48	4.99	-19.8	24.79	Vertical	43.5	38.51
308.584	6.44	-16.9	23.34	Vertical	46	39.56
529.4045	10.85	-11.6	22.45	Vertical	46	35.15
938.3565	16.04	-5.1	21.14	Vertical	46	29.96

For GFSK
Channel No.:39

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
35.1895	17.05	-20	37.05	Vertical	40	22.95
57.645	5.43	-19.6	25.03	Vertical	40	34.57
105.0295	5.17	-19.6	24.77	Vertical	43.5	38.33
207.898	3.98	-19.7	23.68	Vertical	43.5	39.52
511.6535	10.67	-12	22.67	Vertical	46	35.33
956.5925	16.05	-5	21.05	Vertical	46	29.95

For π/4DQPSK
Channel No.:39

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
35.238	18.81	-20	38.81	Vertical	40	21.19
58.1785	5.52	-19.7	25.22	Vertical	40	34.48
98.094	5.26	-19.5	24.76	Vertical	43.5	38.24
267.456	5.29	-18	23.29	Vertical	46	40.71
537.116	11.08	-11.4	22.48	Vertical	46	34.92
936.853	16.12	-5.1	21.22	Vertical	46	29.88

For 8DPSK
Channel No.:39

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
35.1895	17.21	-20	37.21	Vertical	40	22.79
56.481	4.56	-19.5	24.06	Vertical	40	35.44
109.734	4.68	-19.7	24.38	Vertical	43.5	38.82
197.325	3.32	-20.1	23.42	Vertical	43.5	40.18
483.7175	9.59	-12.6	22.19	Vertical	46	36.41
888.8865	15.45	-5.7	21.15	Vertical	46	30.55

For GFSK
Channel No.:78

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
35.1895	17.25	-20	37.25	Vertical	40	22.75
58.13	5.54	-19.7	25.24	Vertical	40	34.46
102.362	4.94	-19.5	24.44	Vertical	43.5	38.56
295.4405	6	-17.2	23.2	Vertical	46	40
512.6235	10.71	-12	22.71	Vertical	46	35.29
932.003	16.05	-5.2	21.25	Vertical	46	29.95

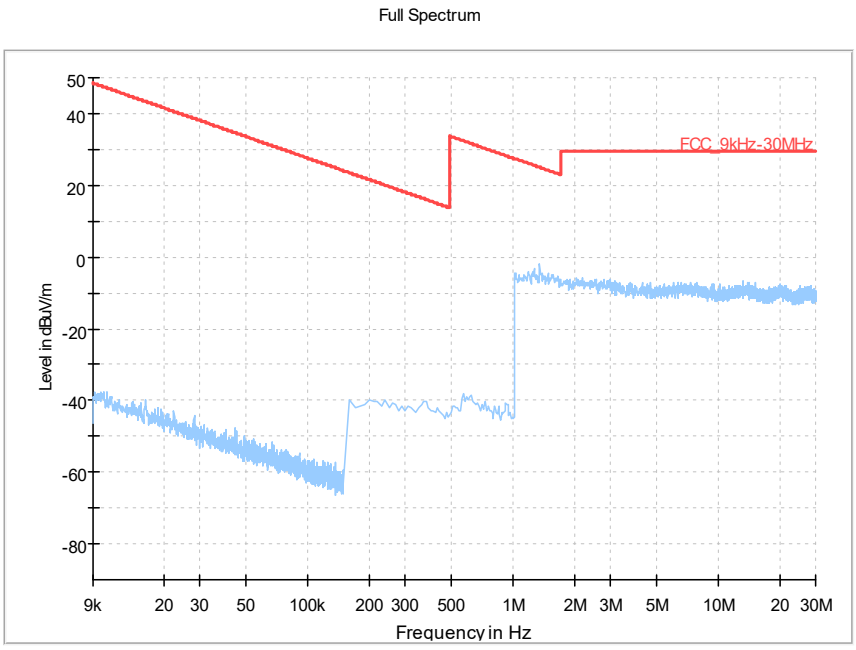
For π/4DQPSK
Channel No.:78

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)

35.238	18.83	-20	38.83	Vertical	40	21.17
58.2755	5.5	-19.7	25.2	Vertical	40	34.5
98.288	5.44	-19.5	24.94	Vertical	43.5	38.06
306.3045	6.23	-16.9	23.13	Vertical	46	39.77
510.1015	10.38	-12	22.38	Vertical	46	35.62
915.7555	15.93	-5.3	21.23	Vertical	46	30.07

For 8DPSK
Channel No.:78

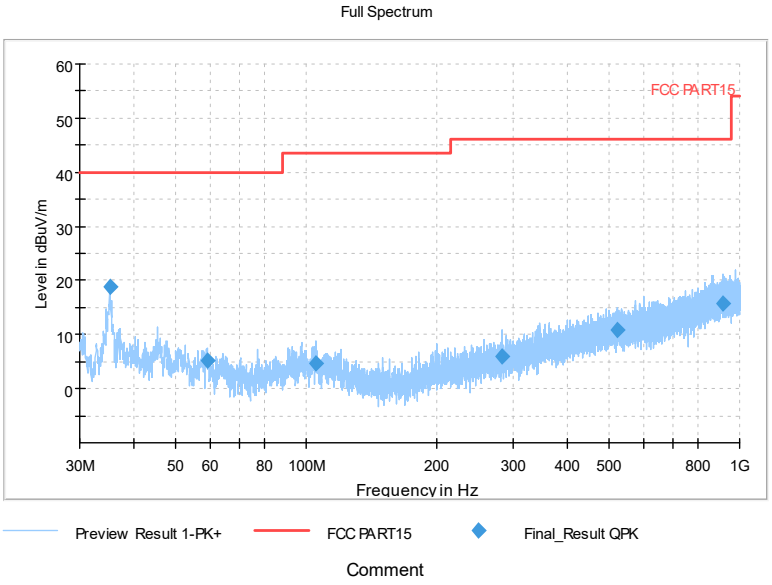
Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
35.238	18.8	-20	38.8	Vertical	40	21.2
80.8765	4.53	-22	26.53	Vertical	40	35.47
102.2165	4	-19.5	23.5	Vertical	43.5	39.5
211.293	3.94	-19.6	23.54	Vertical	43.5	39.56
512.9145	10.7	-12	22.7	Vertical	46	35.3
935.8345	16.17	-5.2	21.37	Vertical	46	29.83



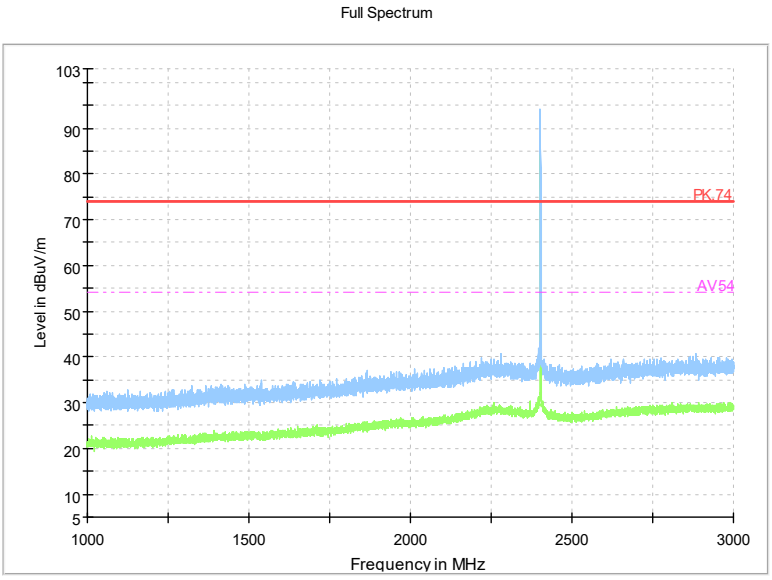
Frequency Range: 9kHz -30MHz
Detector: QP mode

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

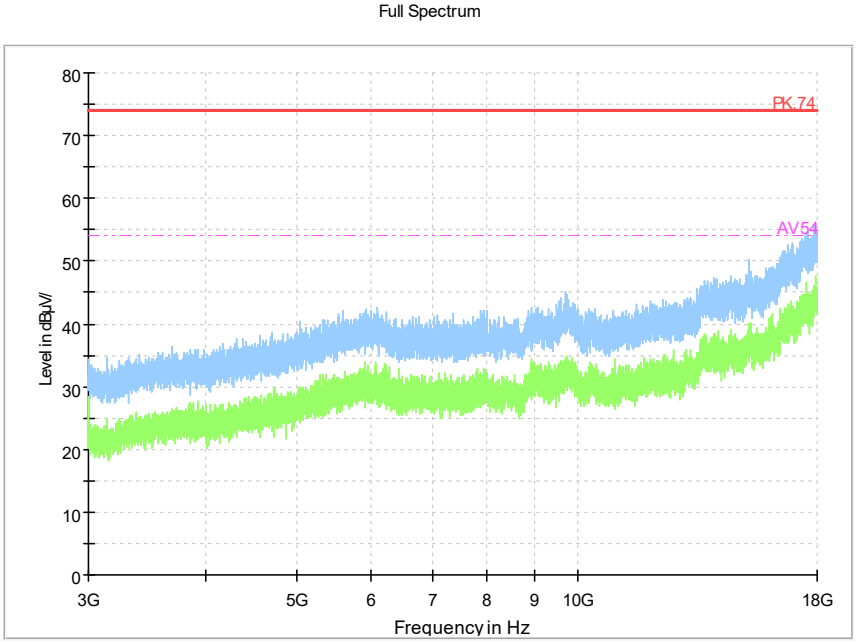
Carrier frequency (MHz): 2402
Channel No.:0



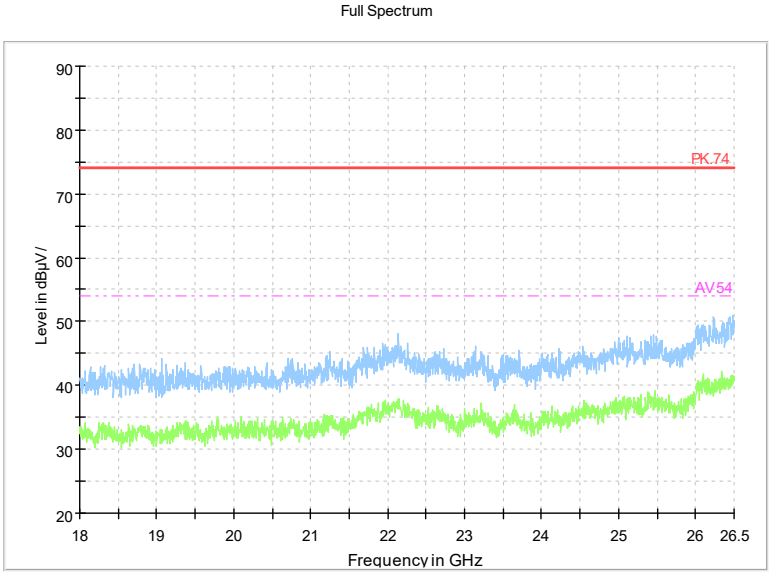
Frequency Range:30MHz-1GHz
Detector: Av mode and PK mode
Modulation type: GFSK



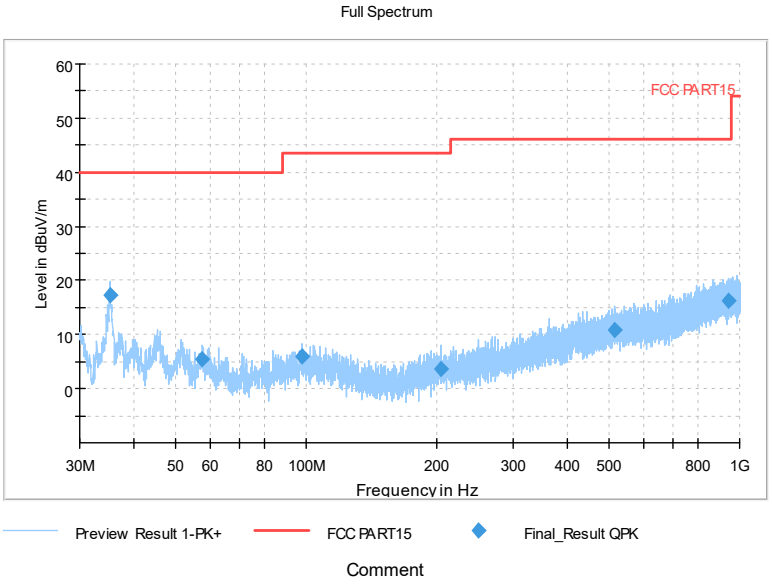
Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: GFSK



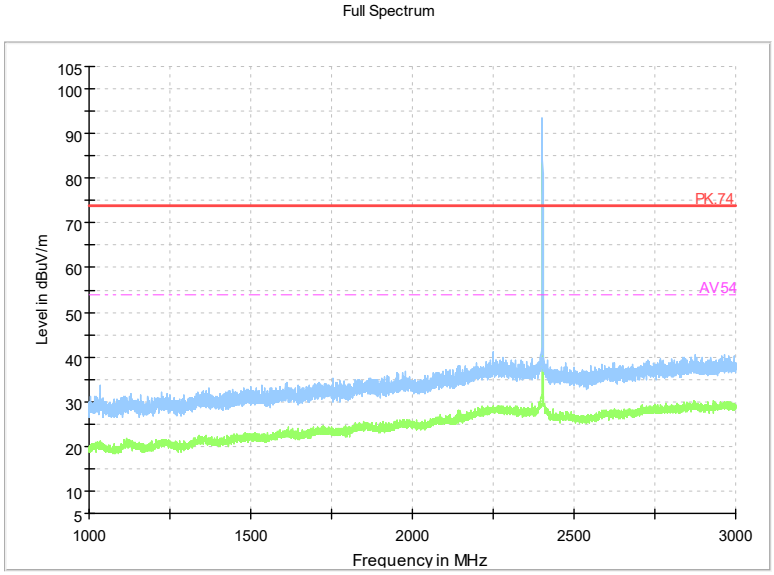
Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: GFSK



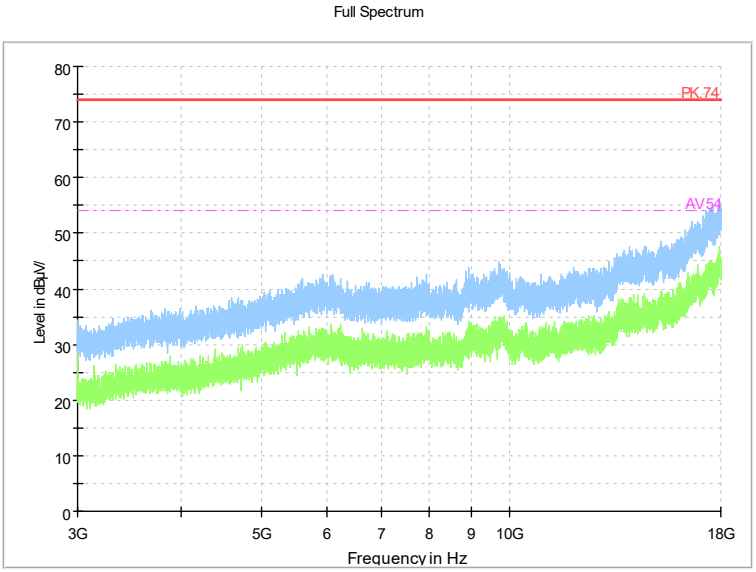
Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: GFSK



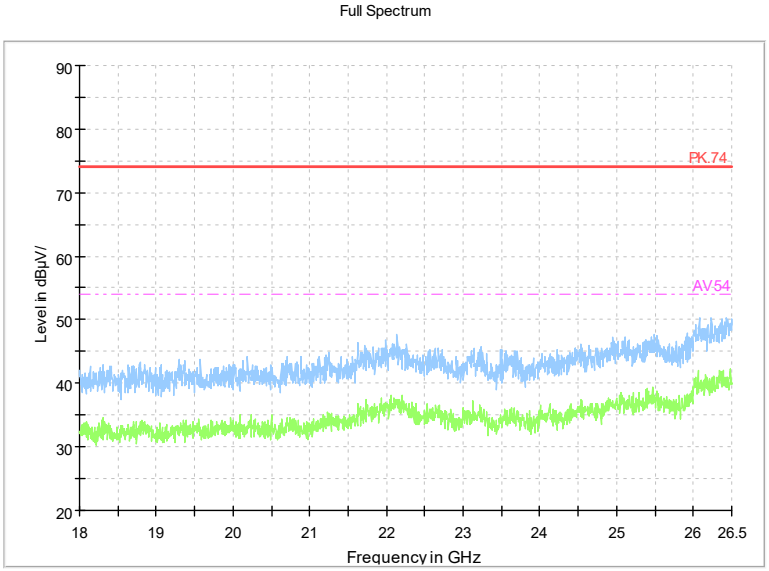
Frequency Range:30MHz-1GHz
Detector: Av mode and PK mode
Modulation type: π/4DQPSK



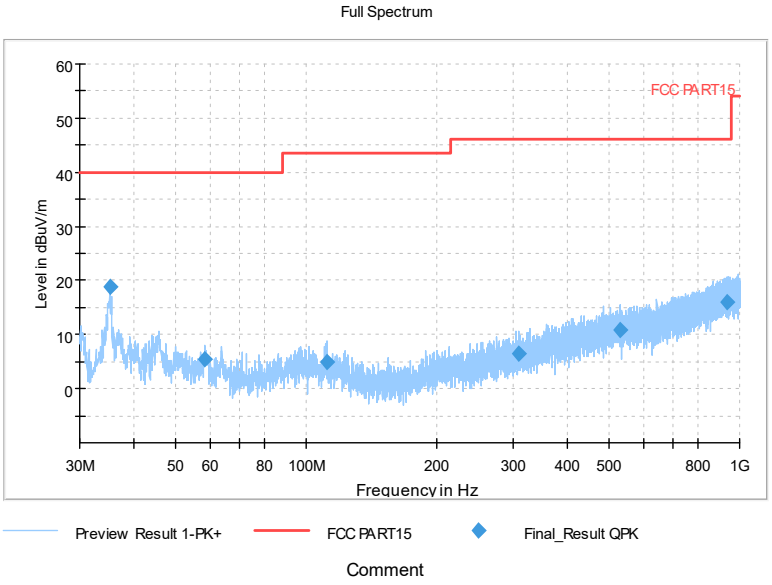
Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: π/4DQPSK



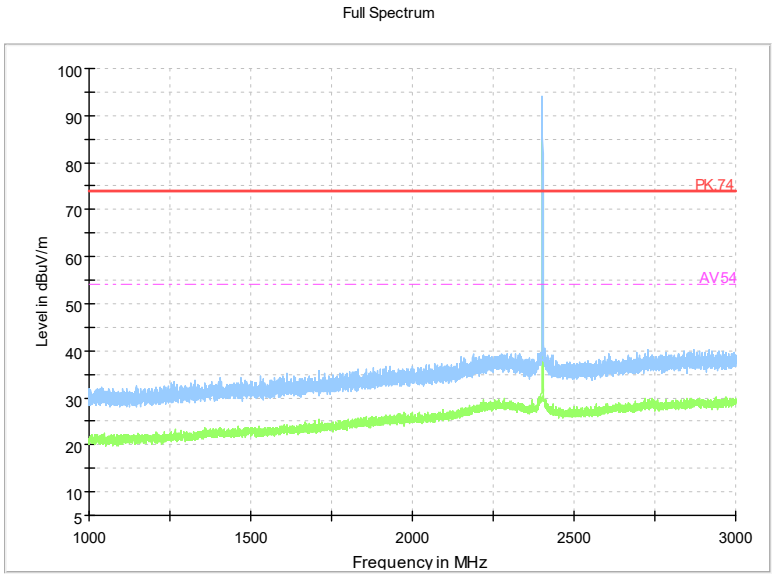
Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: π/4DQPSK



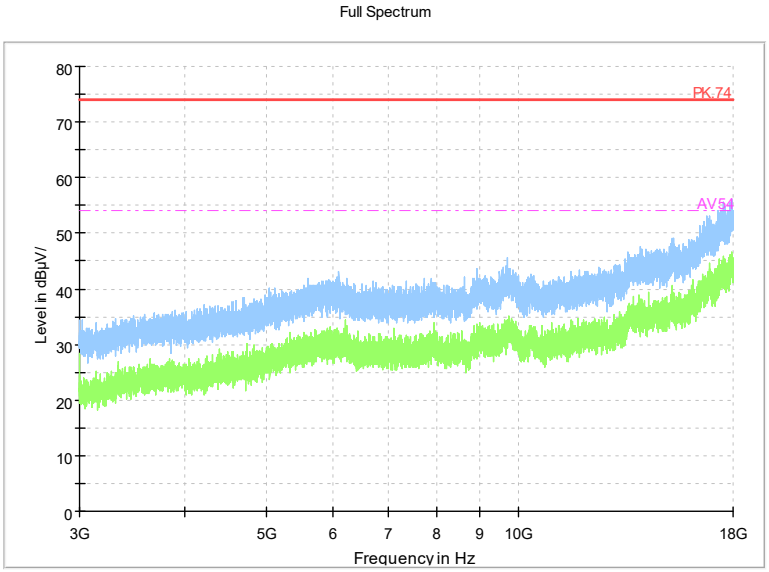
Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: π/4DQPSK



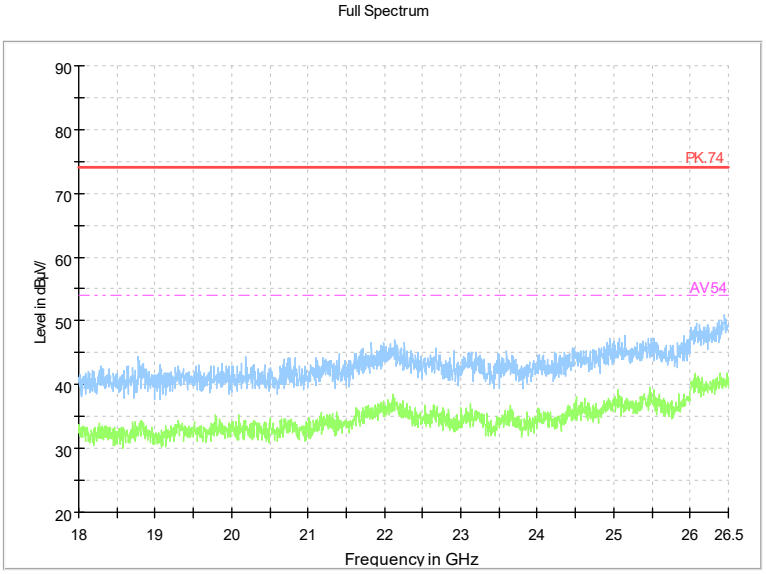
Frequency Range:30MHz-1GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK



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

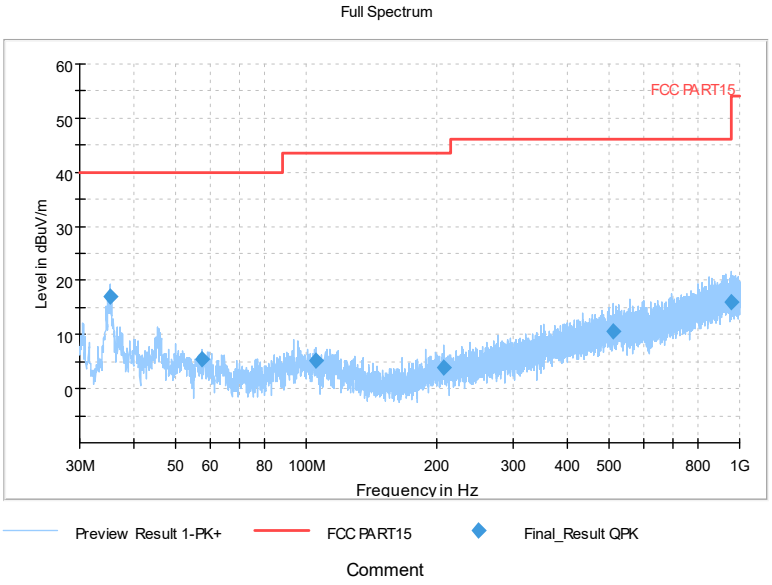


Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK

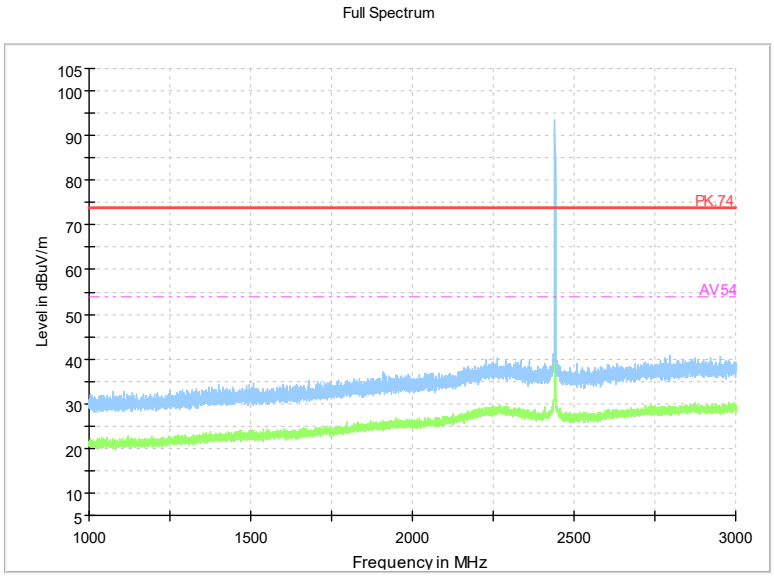


Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK

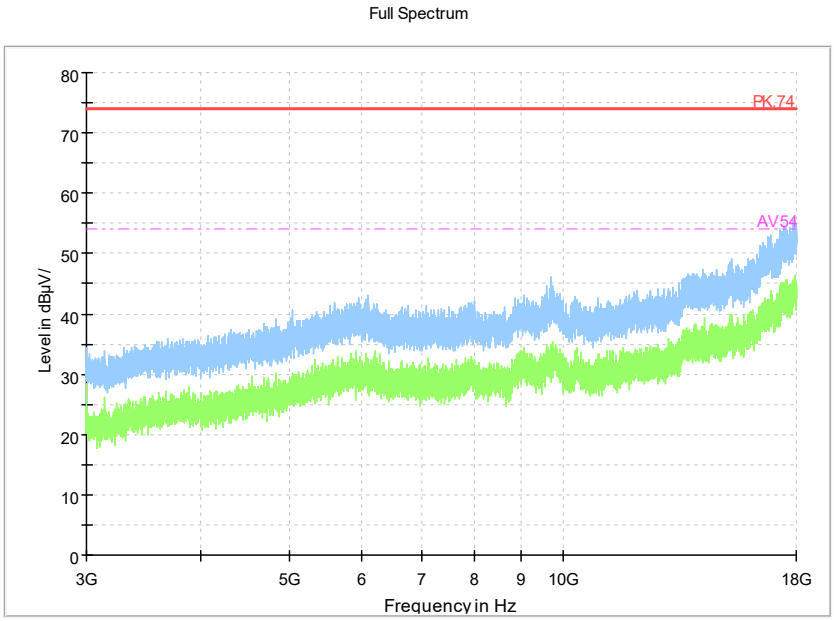
Carrier frequency (MHz): 2440
Channel No.:39



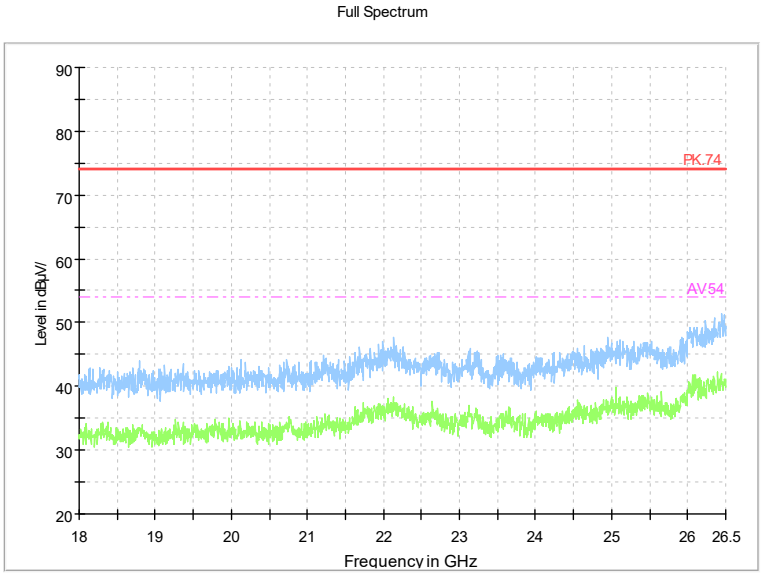
Frequency Range: 30MHz-1GHz
Detector: Av mode and PK mode
Modulation type: GFSK



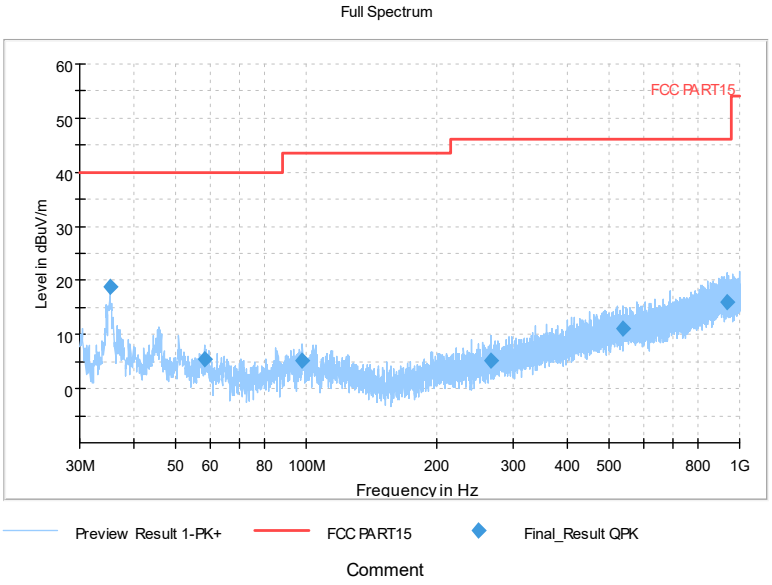
Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: GFSK



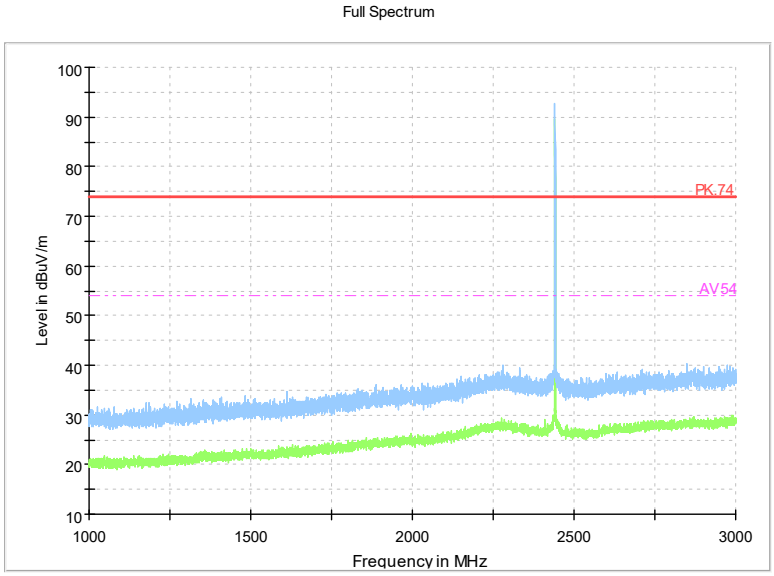
Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: GFSK



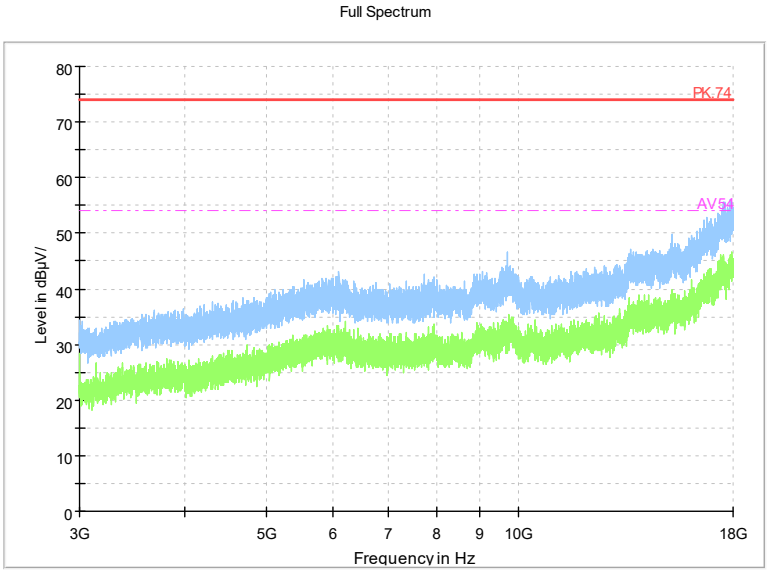
Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: GFSK



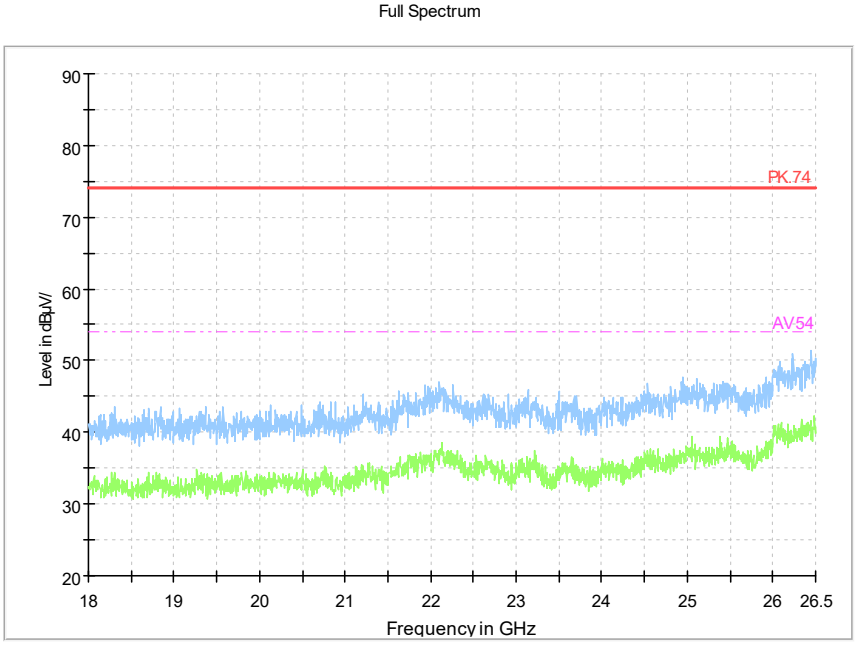
Frequency Range: 30MHz-1GHz
Detector: Av mode and PK mode
Modulation type: π/4DQPSK



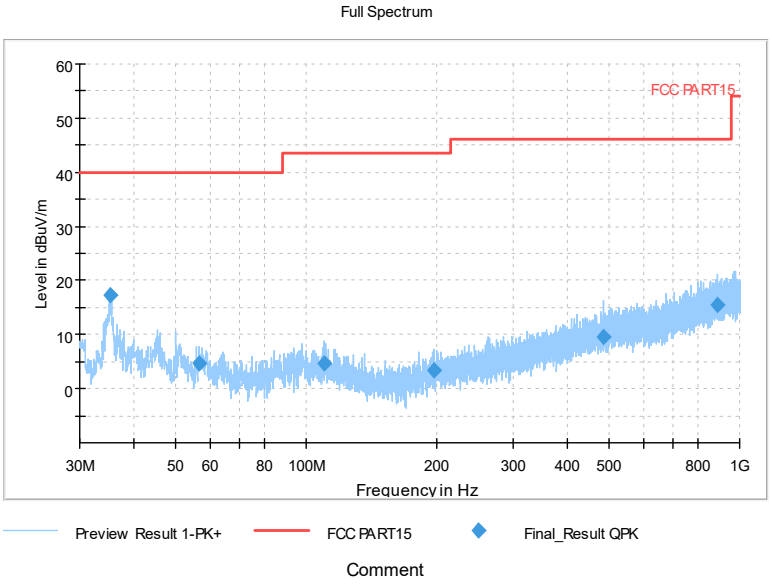
Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: π/4DQPSK



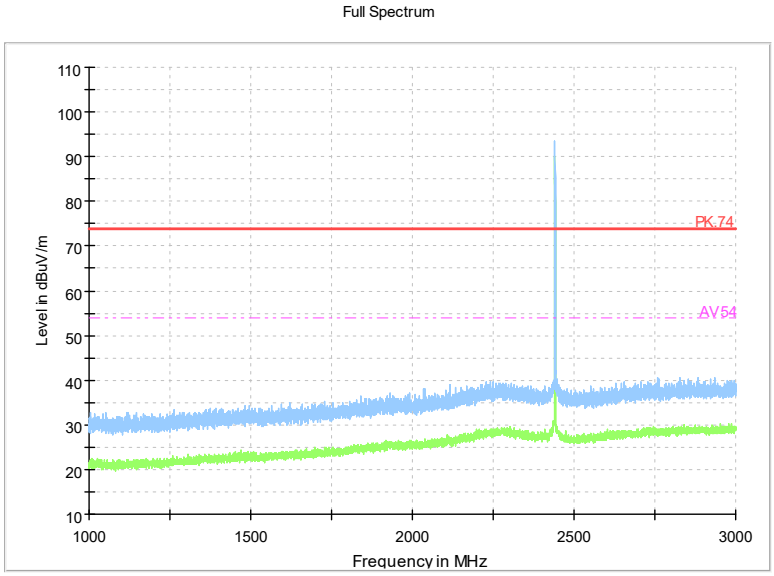
Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: π/4DQPSK



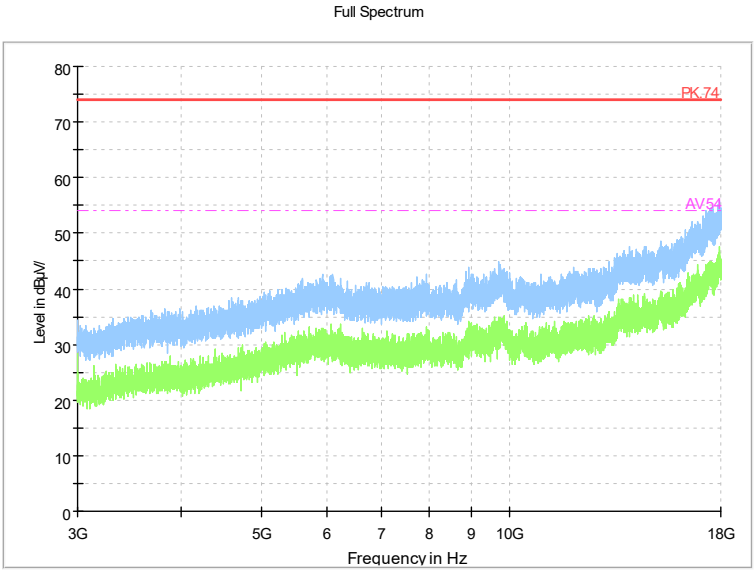
Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: π/4DQPSK



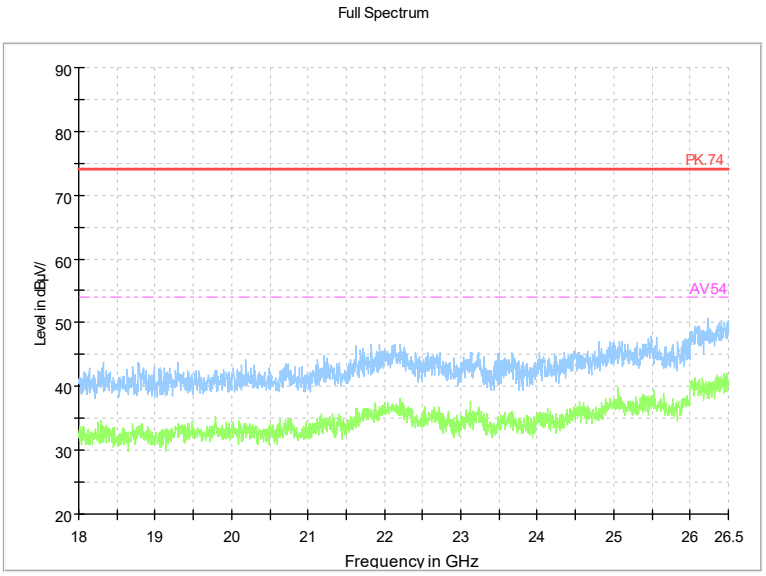
Frequency Range: 30MHz-1GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK



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

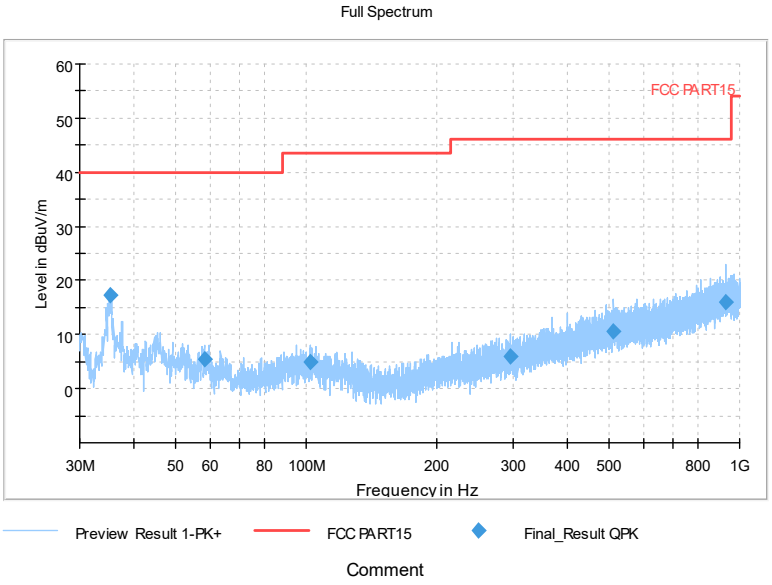


Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK

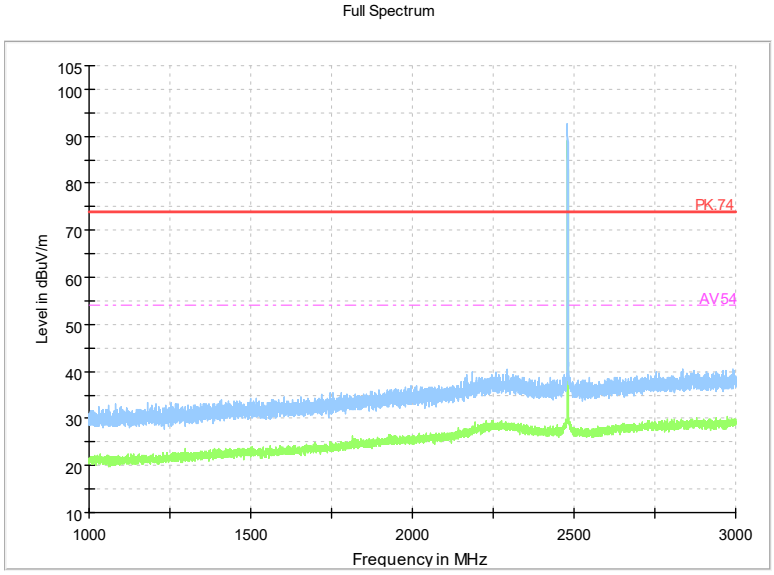


Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK

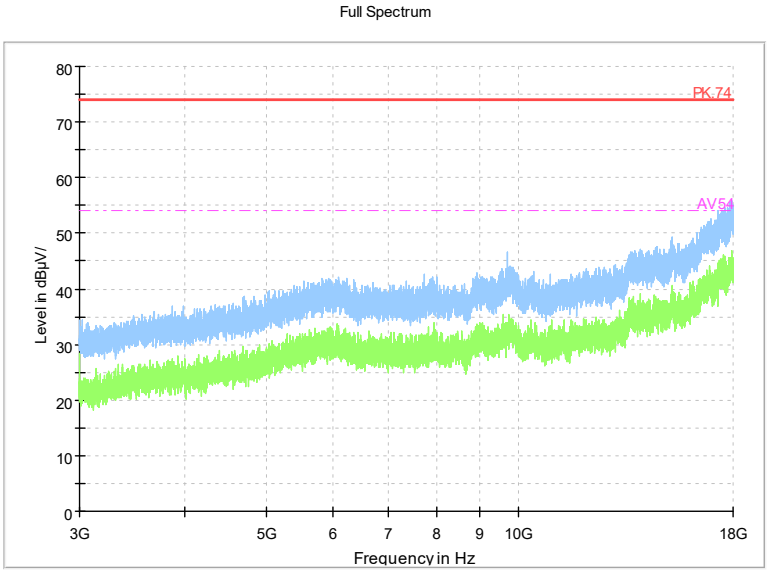
Carrier frequency (MHz): 2480
Channel No.:78



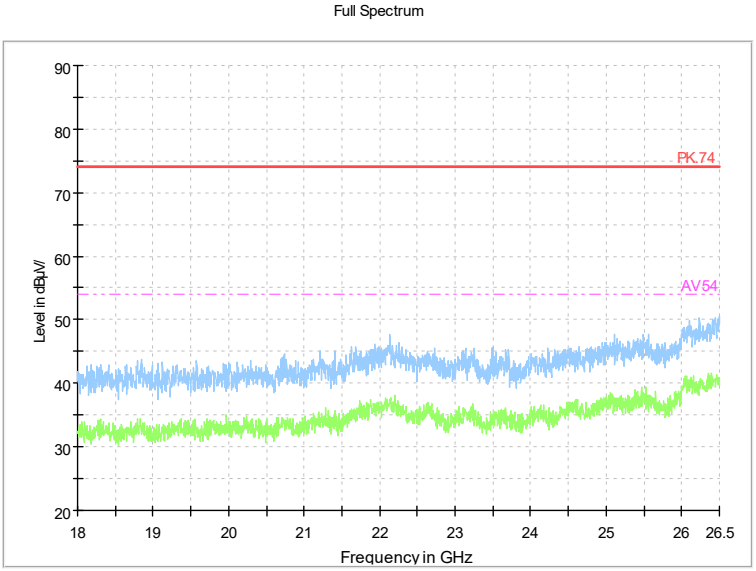
Frequency Range:30MHz-1GHz
Detector: Av mode and PK mode
Modulation type: GFSK



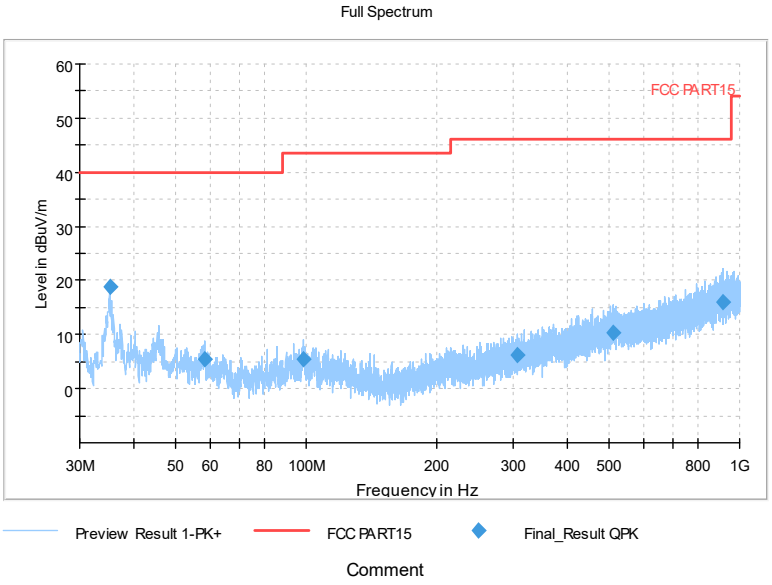
Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: GFSK



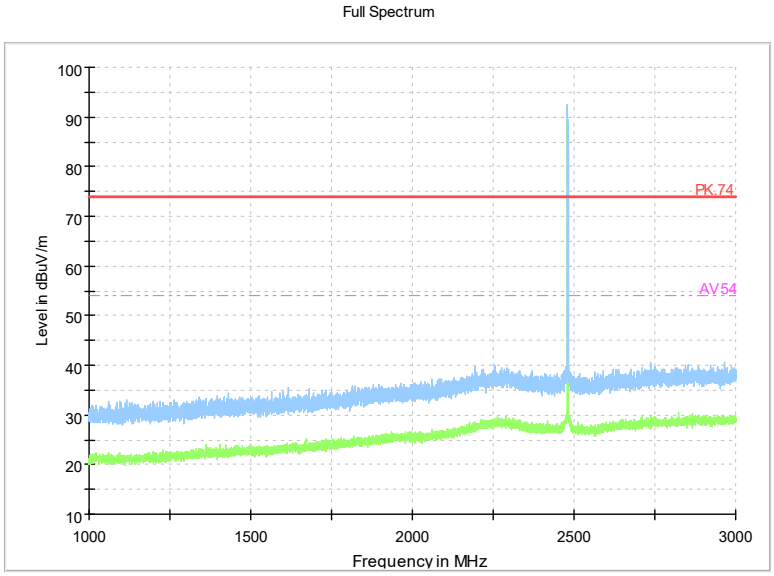
Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: GFSK



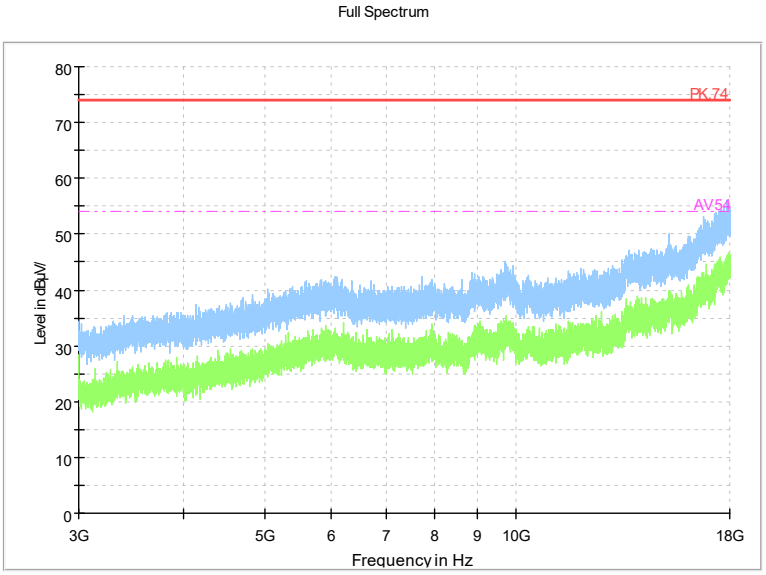
Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: GFSK



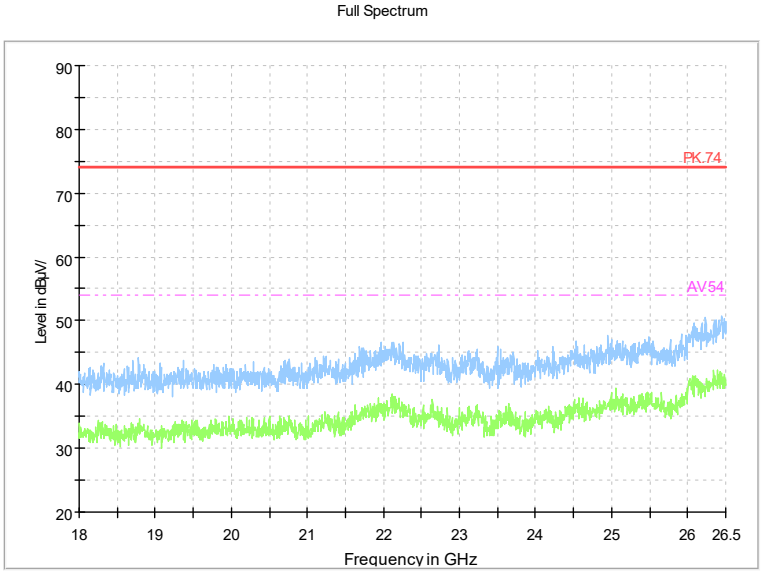
Frequency Range: 30MHz-1GHz
Detector: Av mode and PK mode
Modulation type: π/4DQPSK



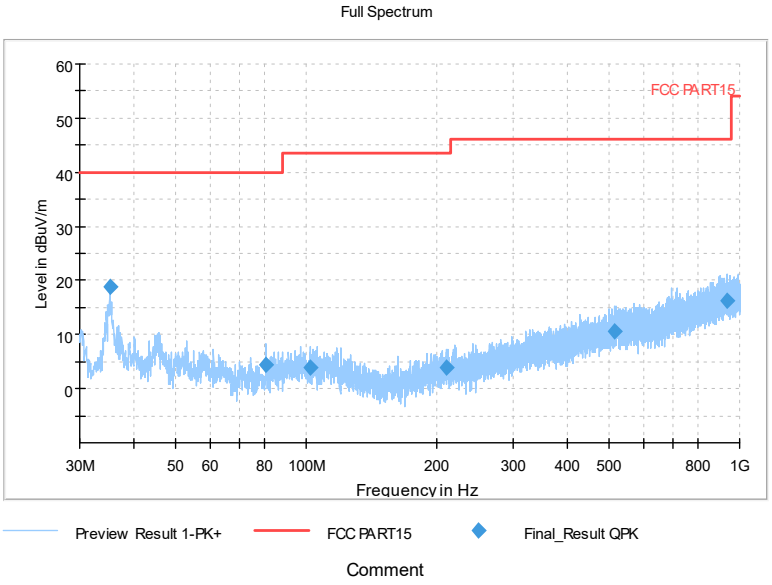
Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: π/4DQPSK



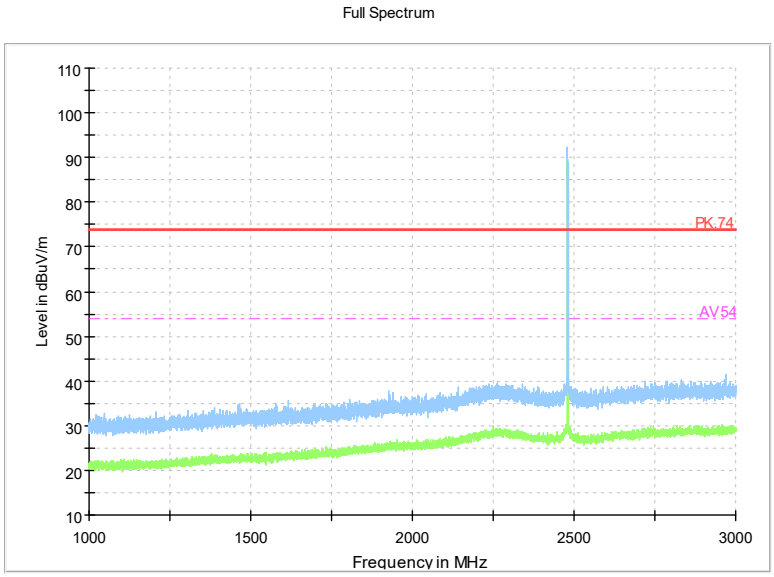
Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: π/4DQPSK



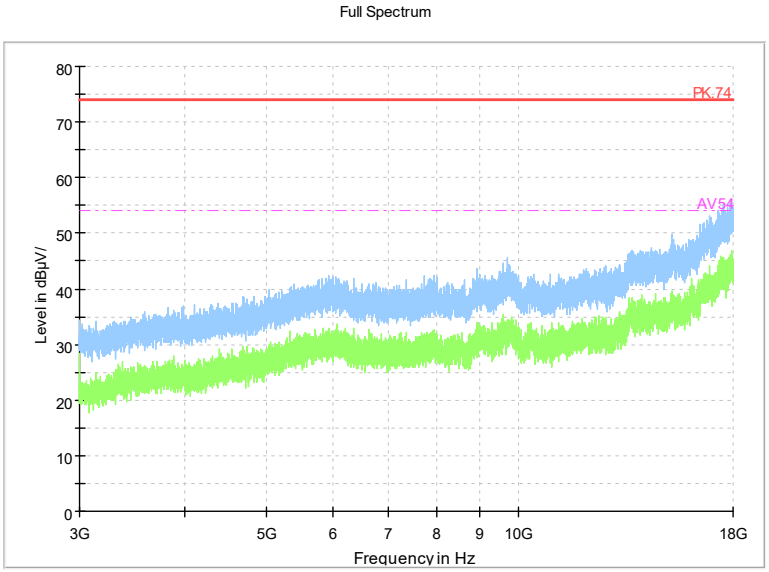
Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: π/4DQPSK



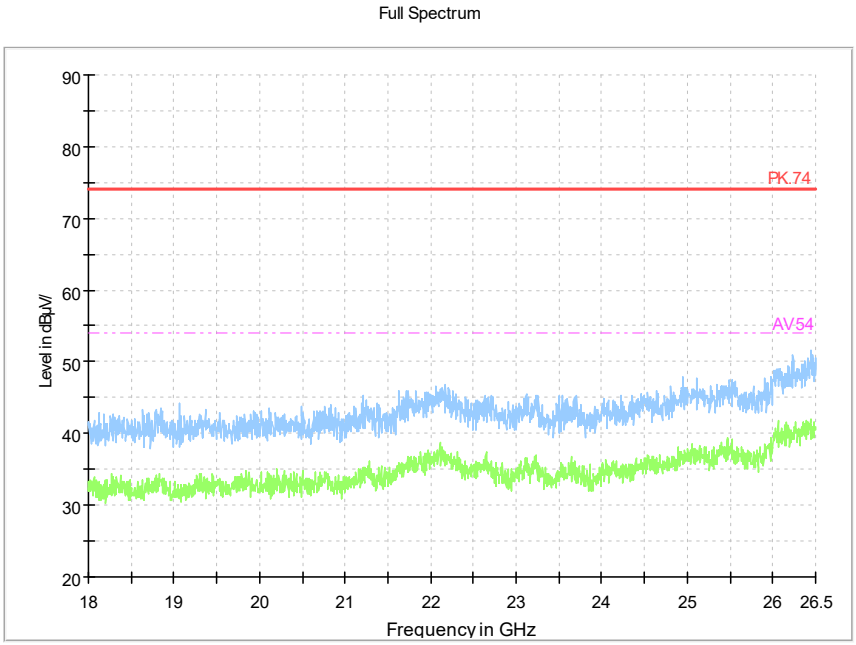
Frequency Range: 30MHz-1GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK



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



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



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

---End of Test Report---