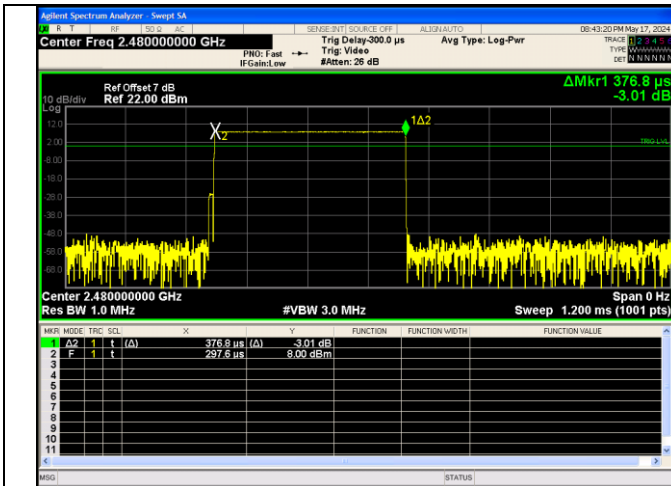
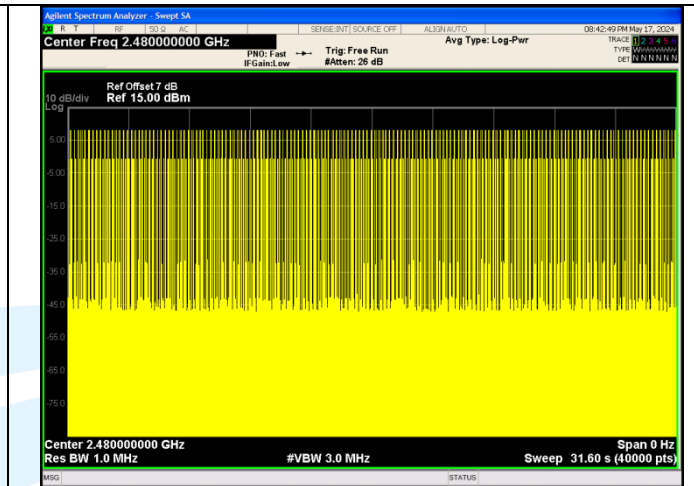
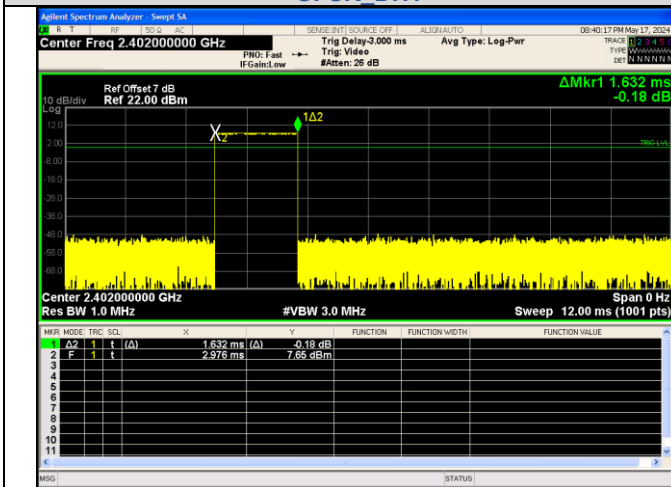




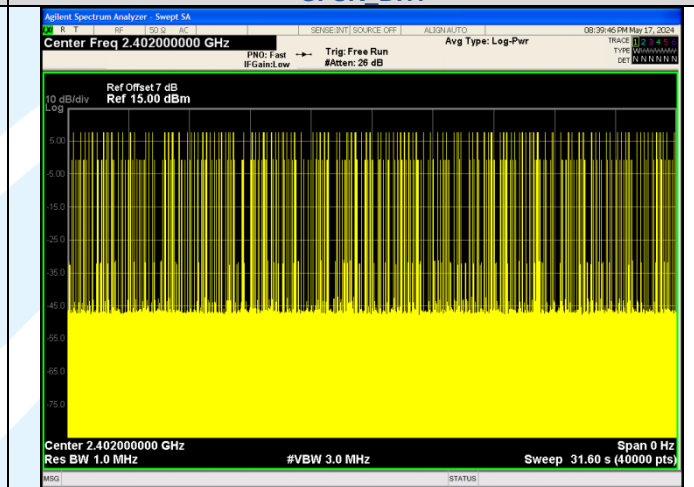
Pulse Width
GFSK_DH1



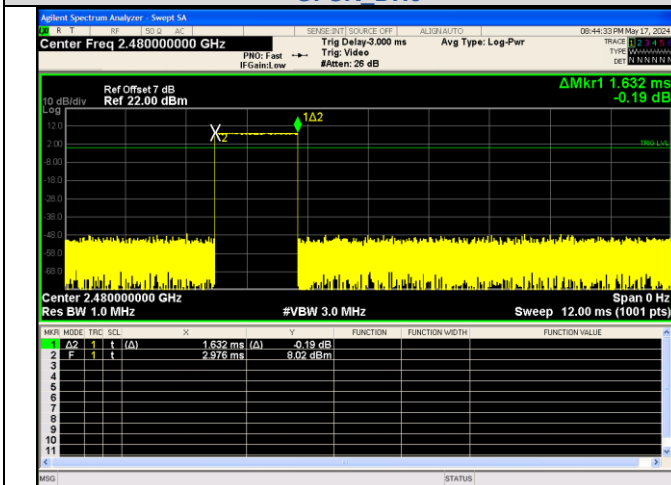
Number of Pulses in 31.6 seconds
GFSK_DH1



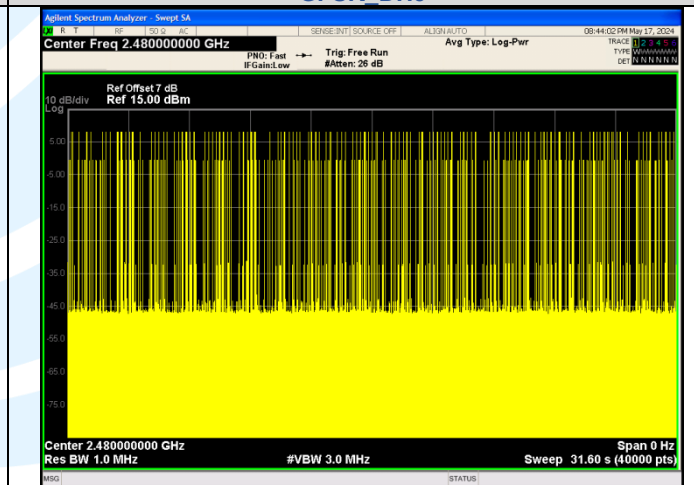
Pulse Width
GFSK_DH3



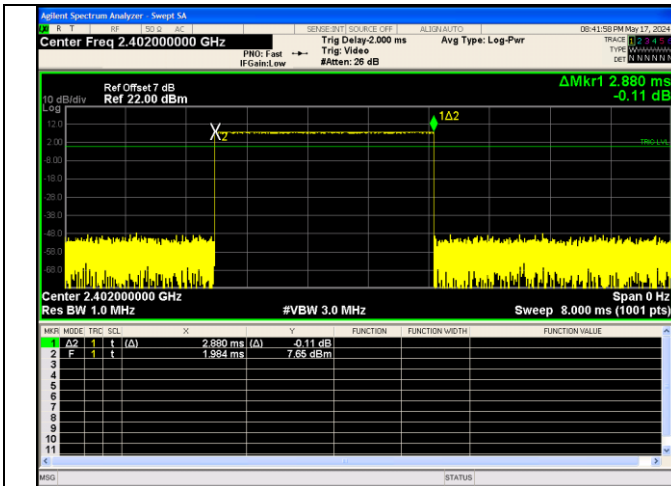
Number of Pulses in 31.6 seconds
GFSK_DH3



Pulse Width
GFSK_DH3



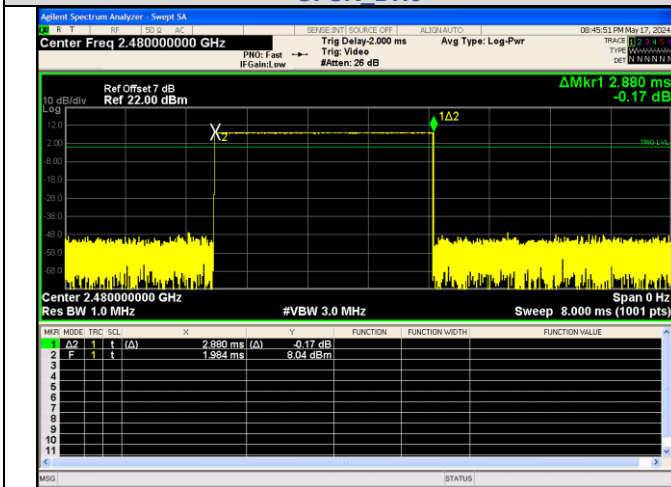
Number of Pulses in 31.6 seconds
GFSK_DH3



Pulse Width
GFSK DH5



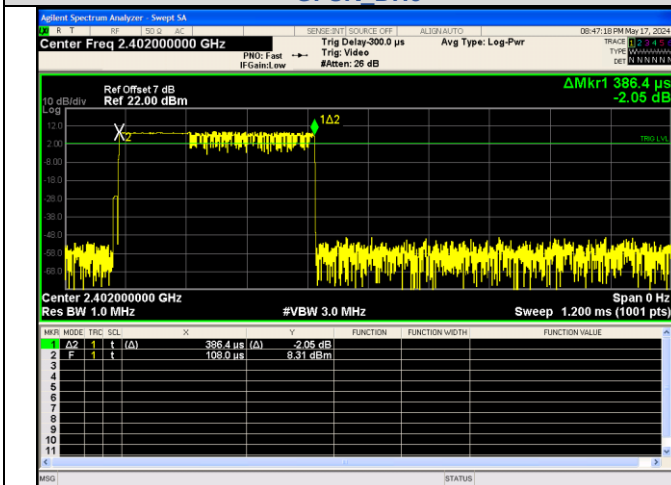
Number of Pulses in 31.6 seconds
GFSK DH5



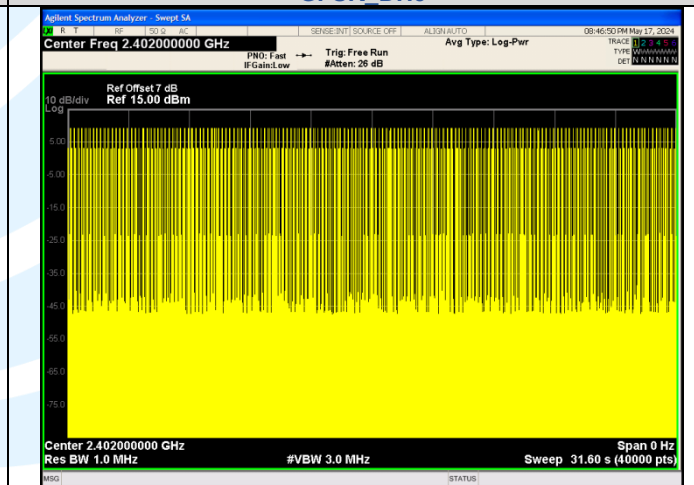
Pulse Width
GFSK DH5



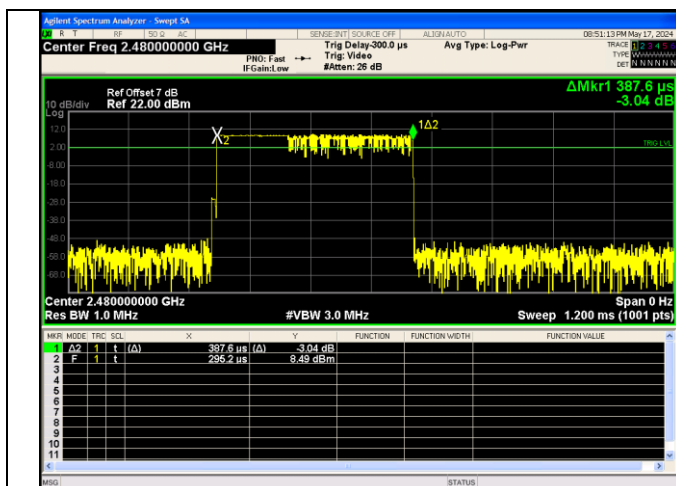
Number of Pulses in 31.6 seconds
GFSK DH5



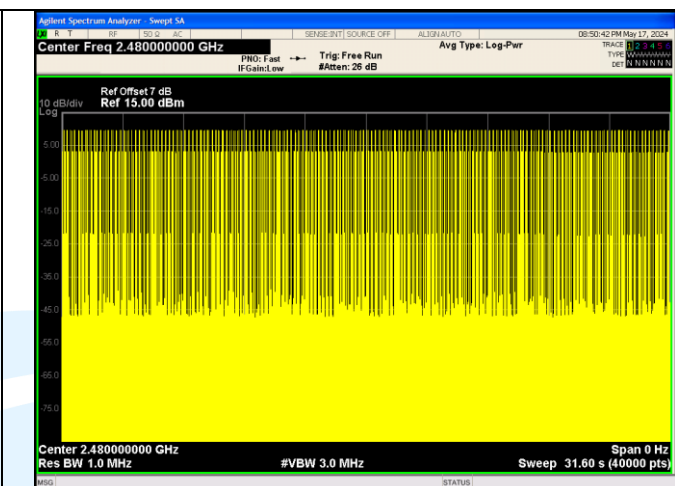
Pulse Width
π/4DQPSK_2-DH1



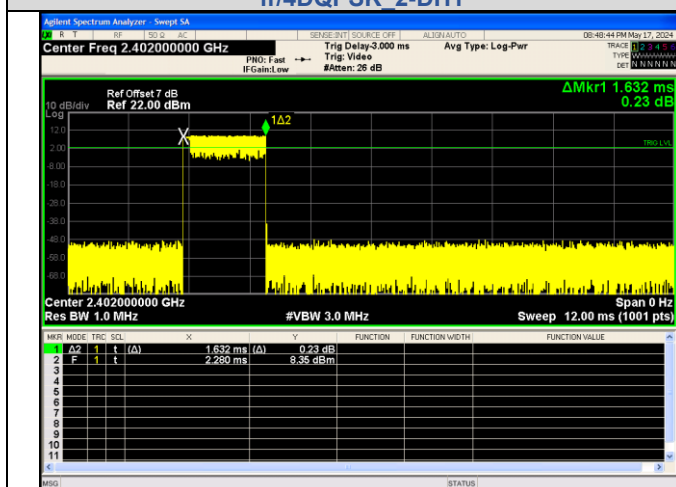
Number of Pulses in 31.6 seconds
π/4DQPSK_2-DH1



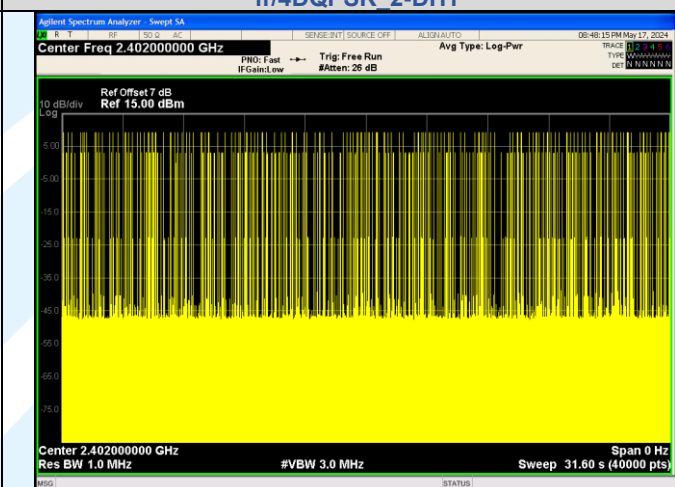
Pulse Width
 $\pi/4$ DQPSK 2-DH1



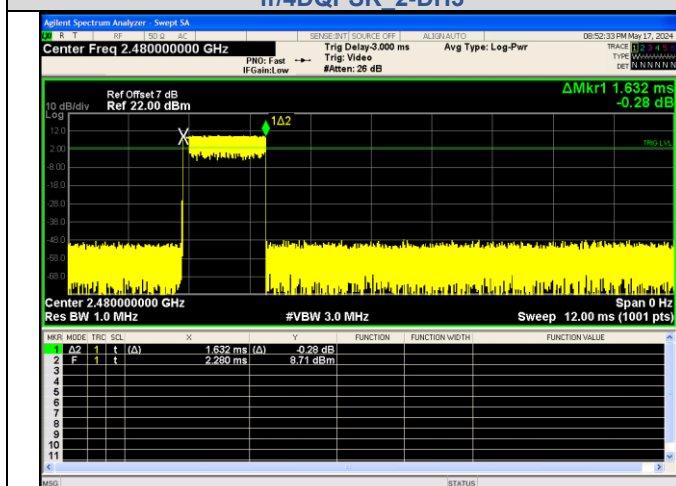
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK 2-DH1



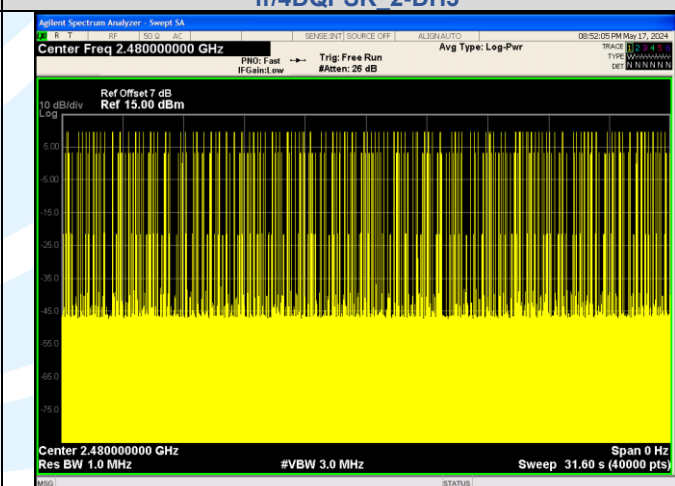
Pulse Width
 $\pi/4$ DQPSK 2-DH3



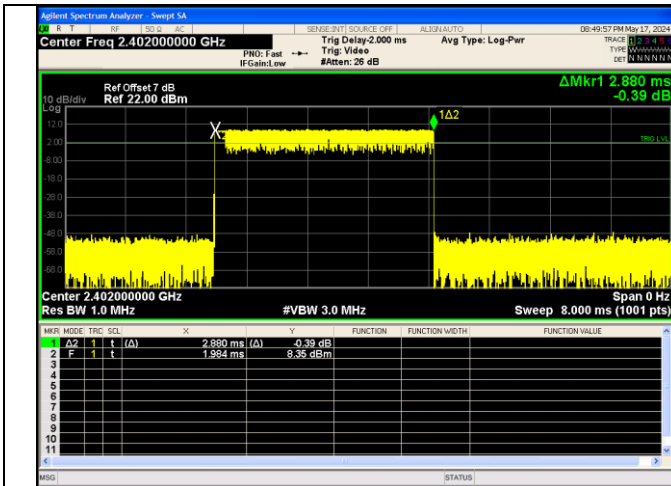
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK 2-DH3



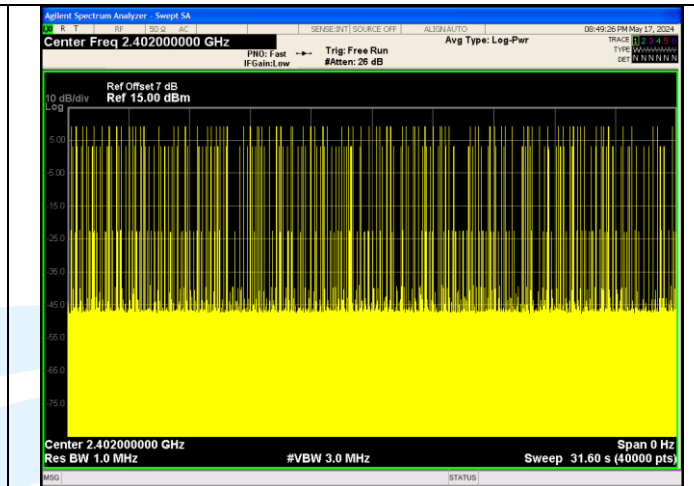
Pulse Width
 $\pi/4$ DQPSK 2-DH3



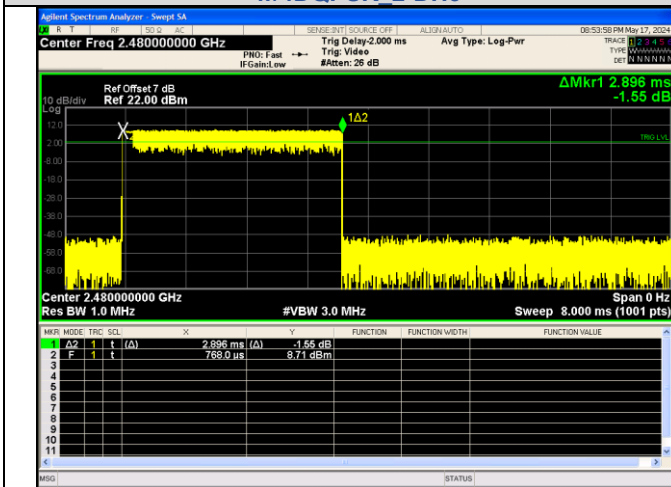
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK 2-DH3



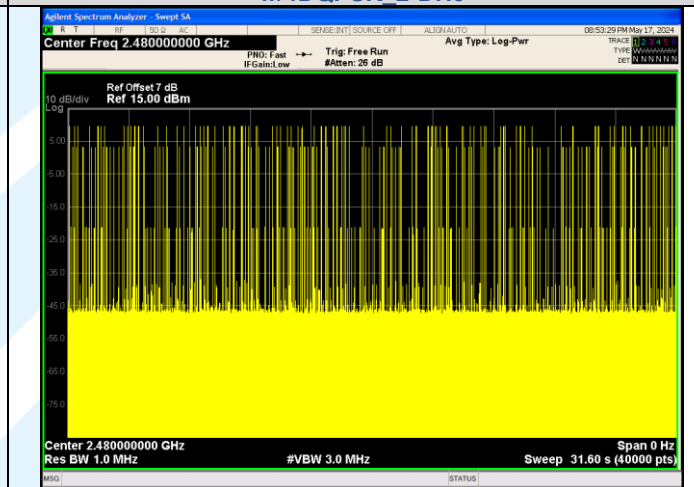
Pulse Width
 $\pi/4$ DQPSK 2-DH5



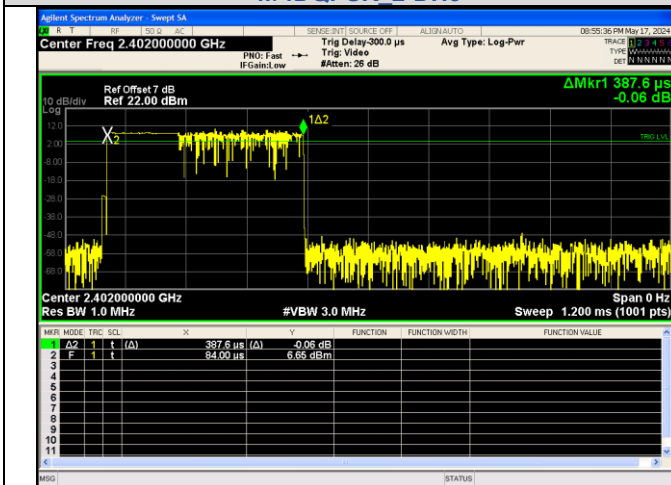
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK 2-DH5



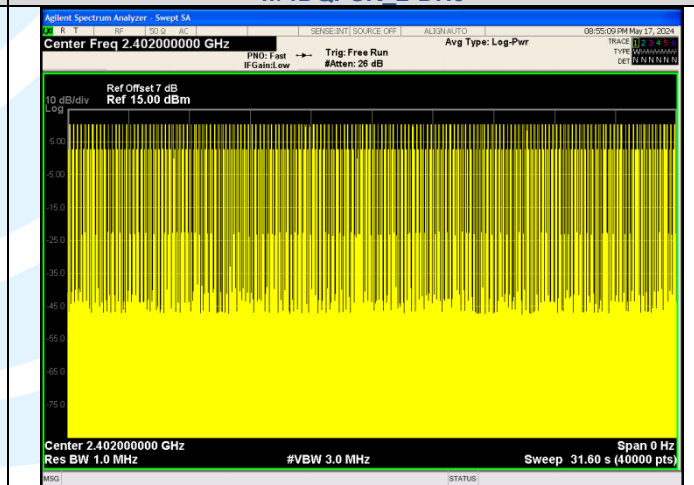
Pulse Width
 $\pi/4$ DQPSK 2-DH5



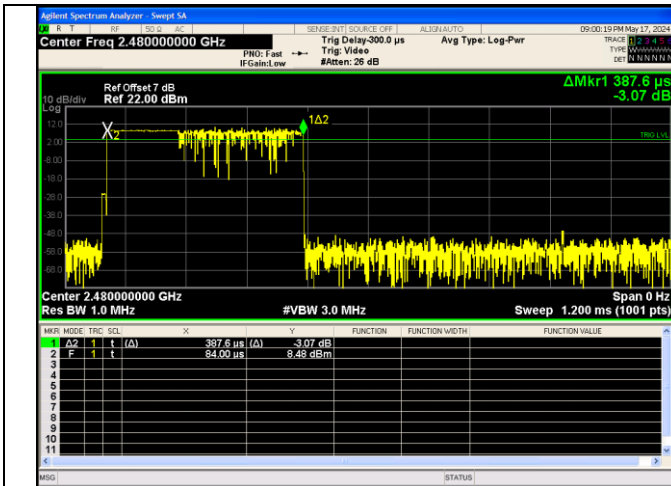
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK 2-DH5



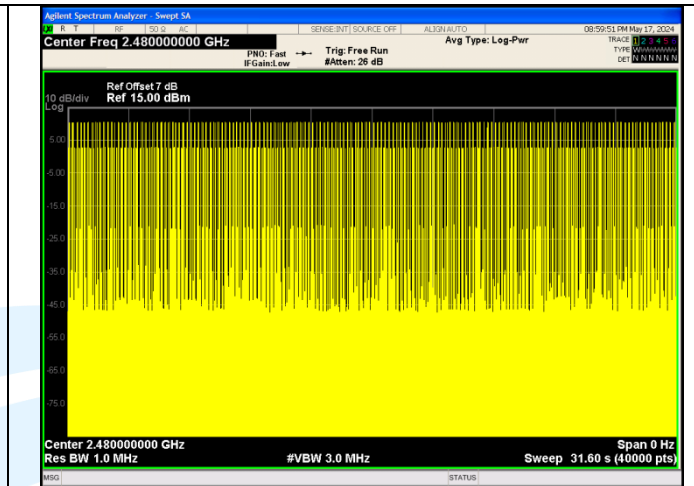
Pulse Width
8DPSK 3-DH1



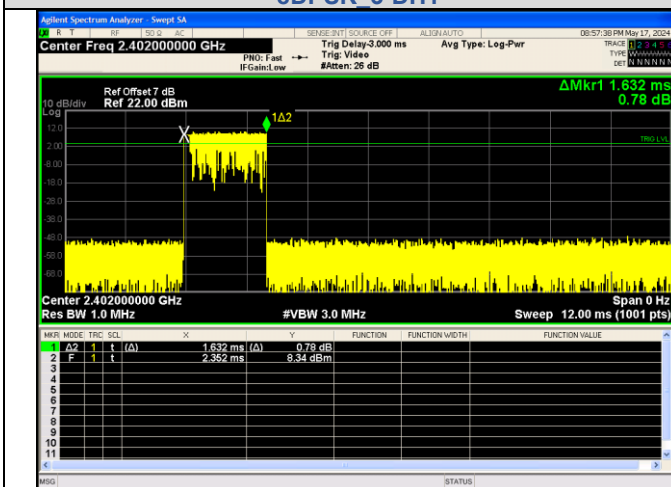
Number of Pulses in 31.6 seconds
8DPSK 3-DH1



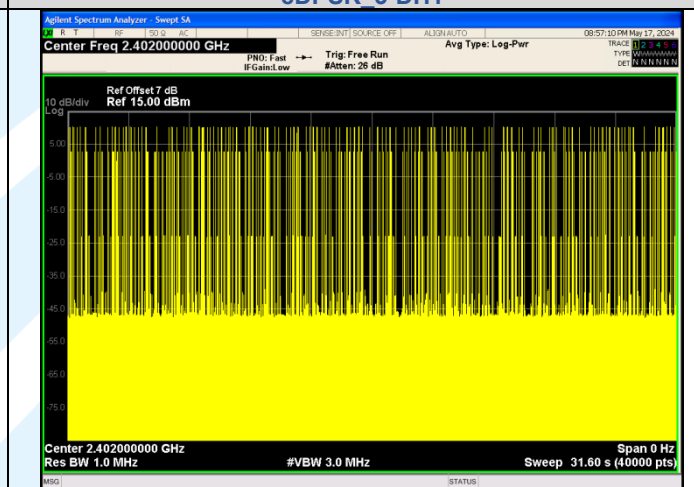
Pulse Width
8DPSK 3-DH1



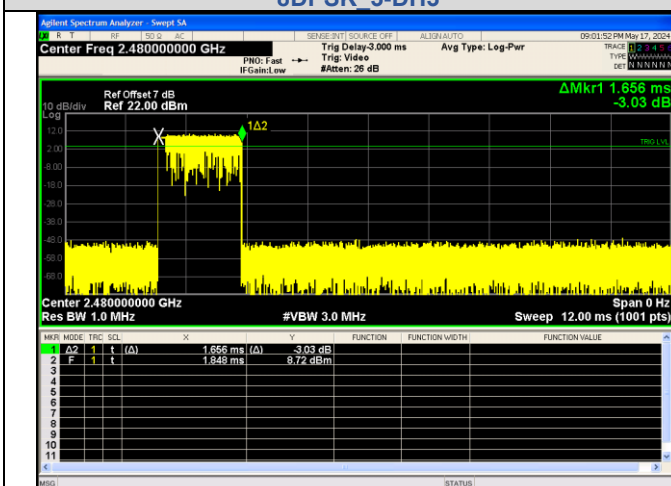
Number of Pulses in 31.6 seconds
8DPSK 3-DH1



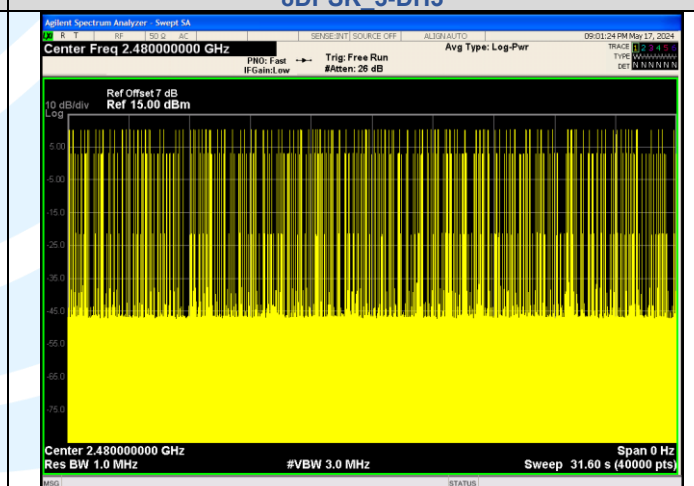
Pulse Width
8DPSK 3-DH3



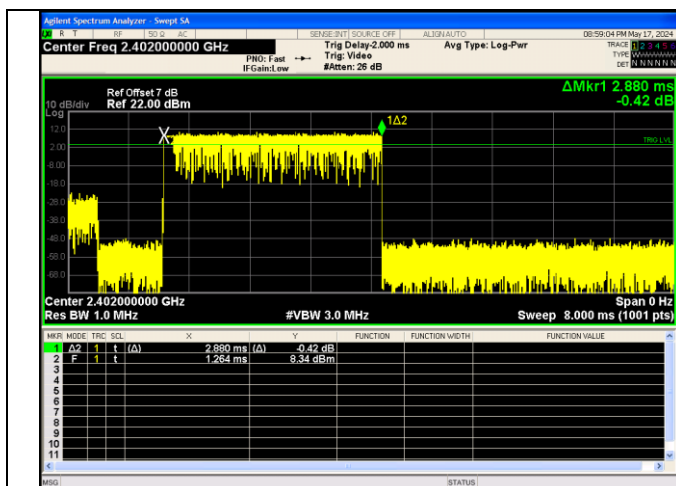
Number of Pulses in 31.6 seconds
8DPSK 3-DH3



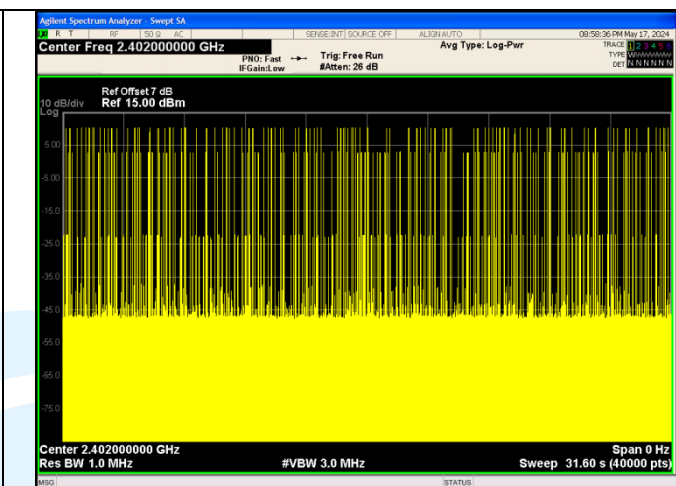
Pulse Width
8DPSK 3-DH3



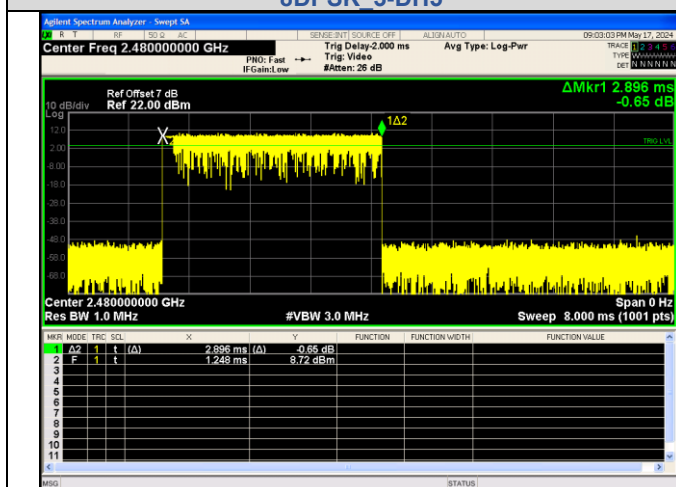
Number of Pulses in 31.6 seconds
8DPSK 3-DH3



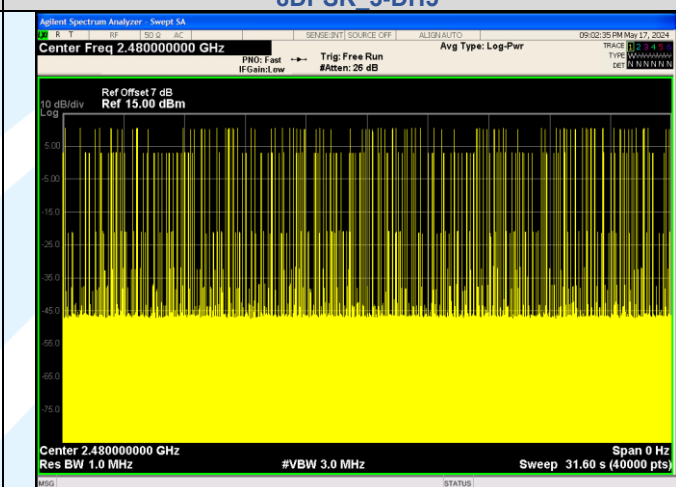
Pulse Width
8DPSK 3-DH5



Number of Pulses in 31.6 seconds
8DPSK 3-DH5



Pulse Width
8DPSK 3-DH5



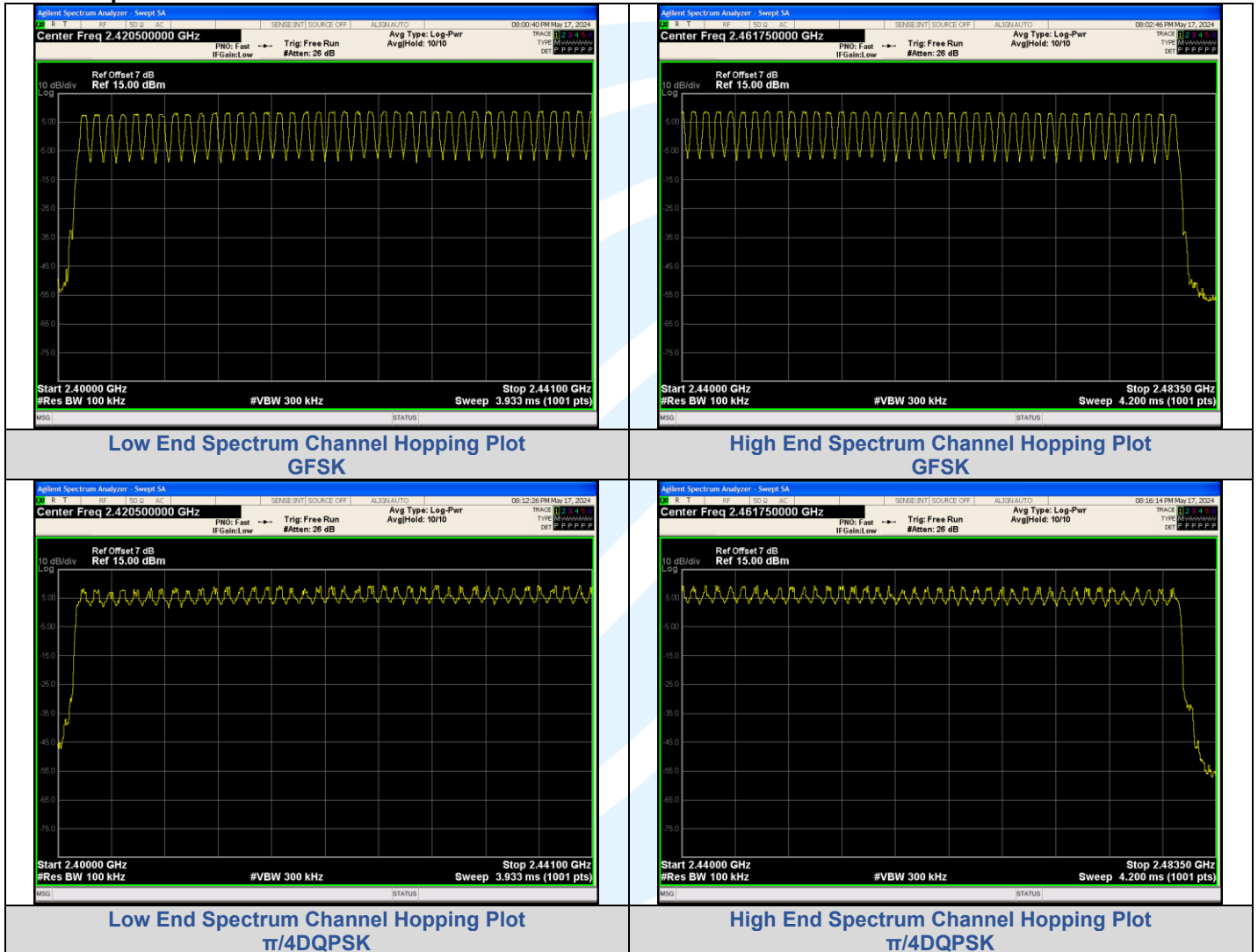
Number of Pulses in 31.6 seconds
8DPSK 3-DH5

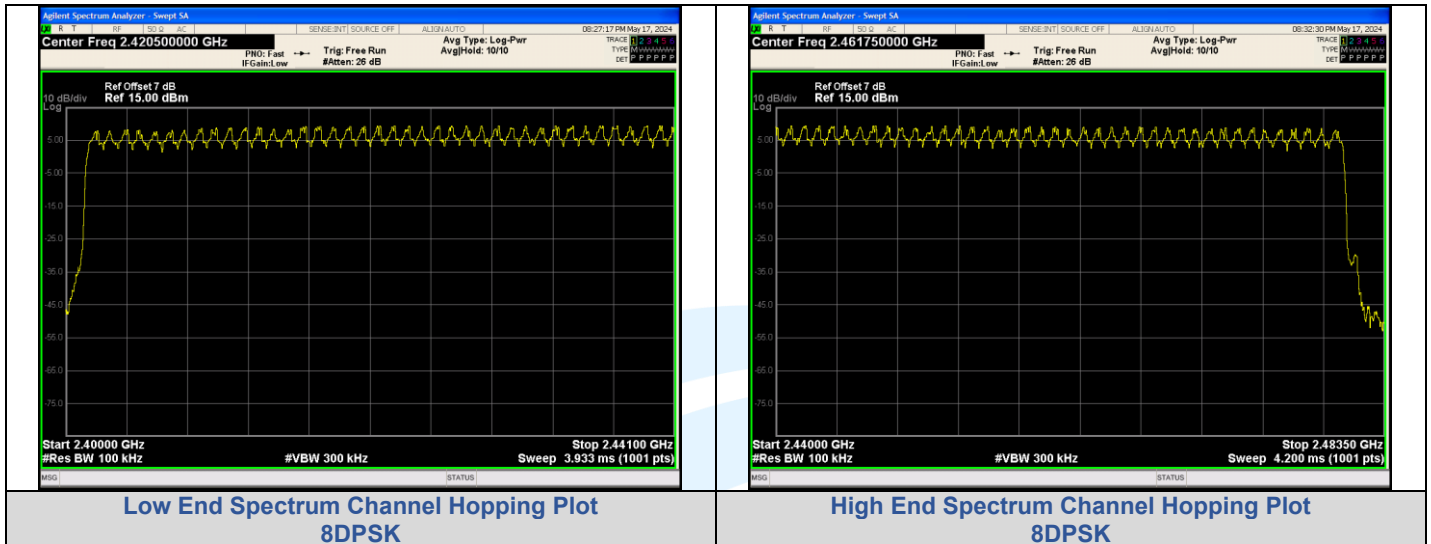
A.6 NUMBER OF HOPPING CHANNEL

Test Result

Modulation	Packet	Number of Hopping Channel	Limit	Result
GFSK	DH5	79	15	PASS
$\pi/4$ DQPSK	2-DH5	79	15	PASS
8DPSK	3-DH5	79	15	PASS

Test Graphs





Shenzhen UnionTrust Quality and Technology Co., Ltd.

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E-mail: info@uttlab.com

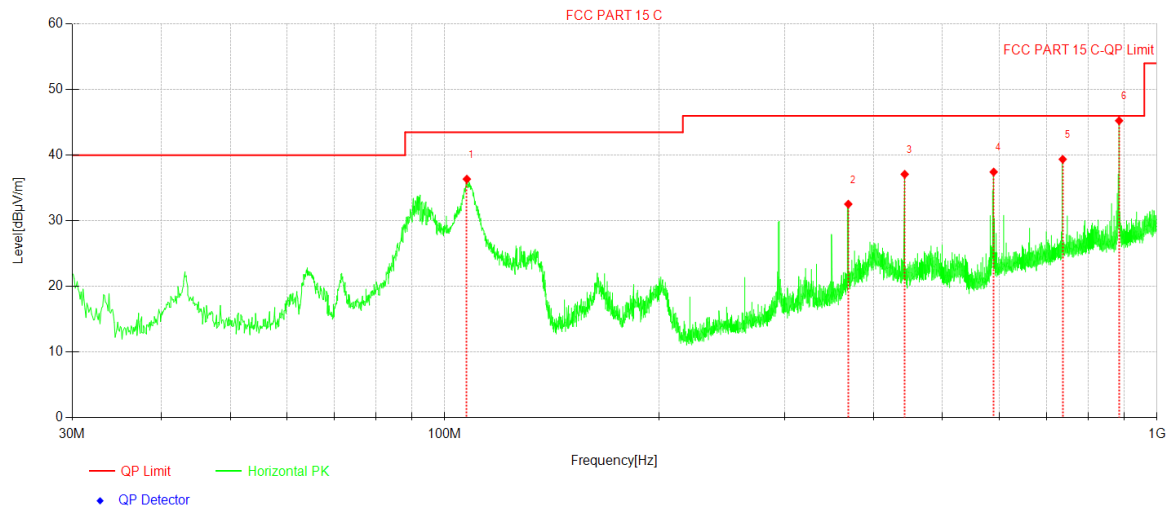
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A.7 RADIATED SPURIOUS EMISSIONS

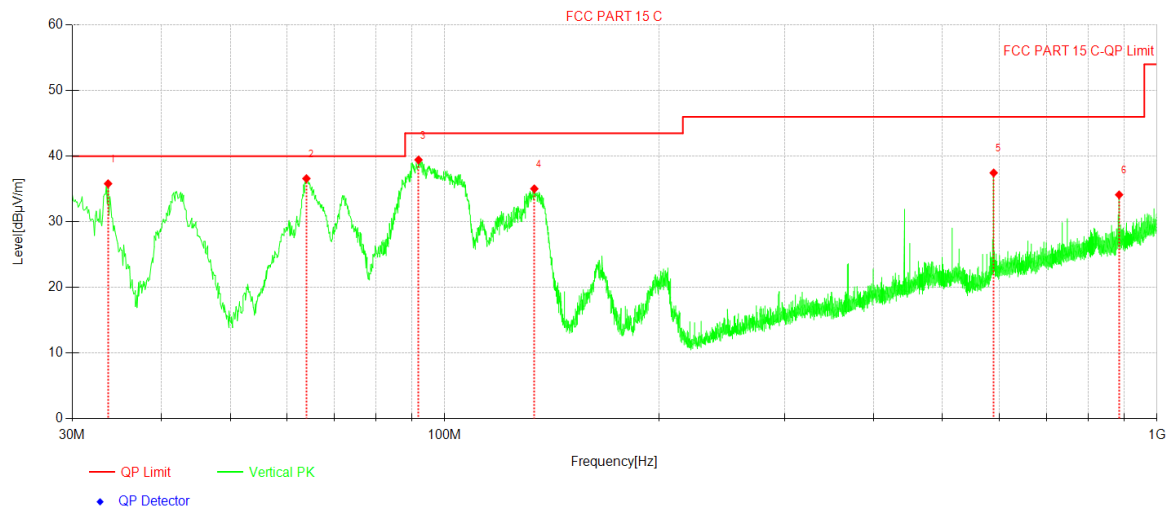
Radiated Emission Test Data (30 MHz ~ 1 GHz):
Worst-Case Configuration(BR+EDR)_Channel 0)

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	107.413741	47.88	-11.52	36.36	43.50	7.14	Peak
2	368.660866	37.75	-5.21	32.54	46.00	13.46	Peak
3	442.388239	40.08	-2.99	37.09	46.00	8.91	Peak
4	589.842984	37.83	-0.39	37.44	46.00	8.56	Peak
5	737.29773	36.33	3.05	39.38	46.00	6.62	Peak
6	884.752475	40.59	4.67	44.76	46.00	1.24	Peak

Vertical



No.	Frequency (MHz)	Reading (dBUV)	Correction factor (dB)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	33.686369	45.26	-9.45	35.81	40.00	4.19	Peak
2	63.953395	45.80	-9.21	36.59	40.00	3.41	Peak
3	91.892189	53.17	-13.73	39.44	43.50	4.06	Peak
4	133.606361	44.14	-9.10	35.04	43.50	8.46	Peak
5	589.842984	37.85	-0.39	37.46	46.00	8.54	Peak
6	884.752475	29.45	4.67	34.12	46.00	11.88	Peak

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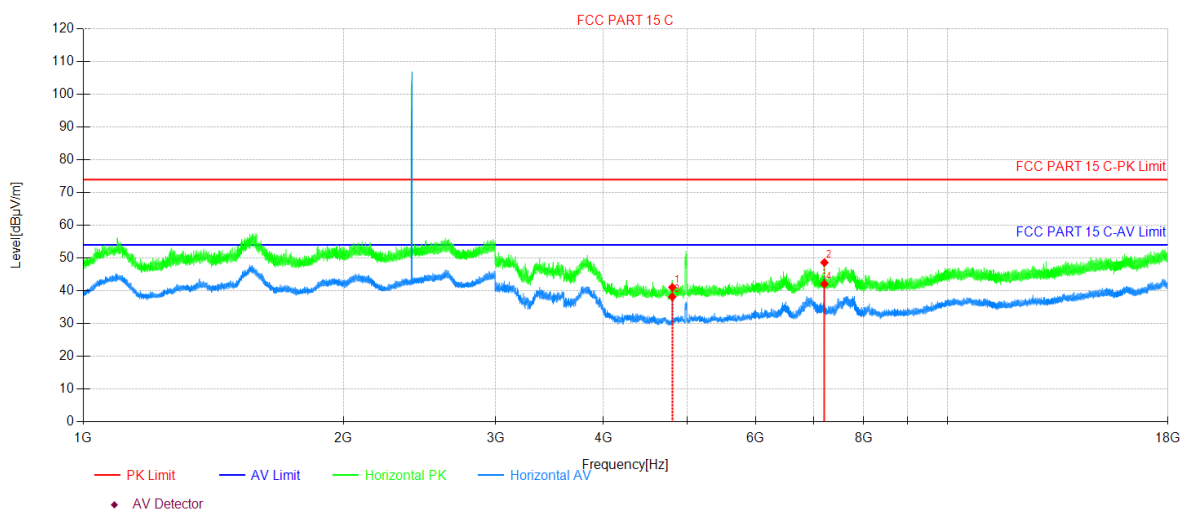
Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

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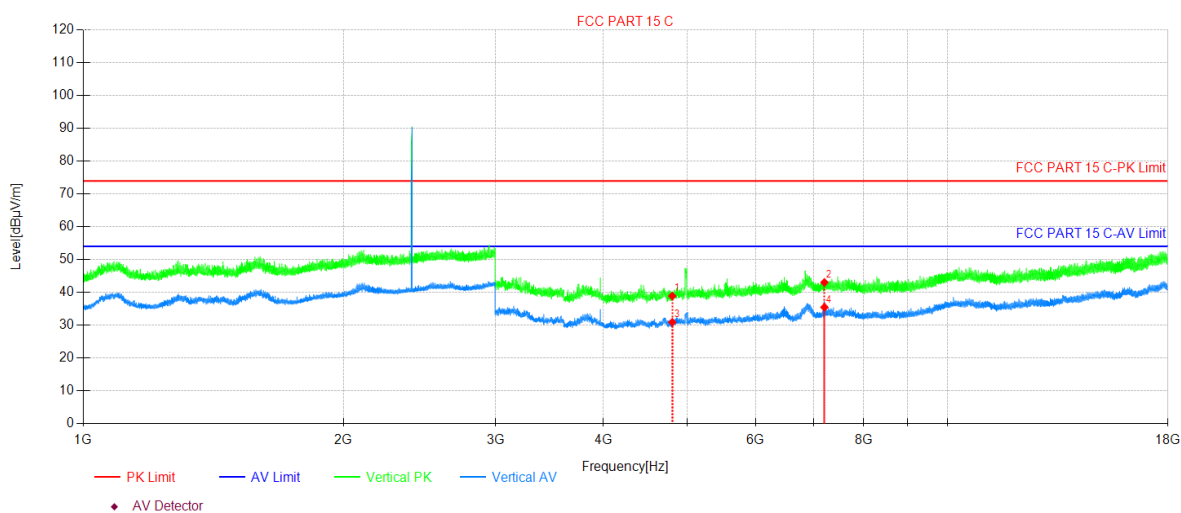
Radiated Emission Test Data (Above 1GHz):

BR+EDR _ Lowest Channel:
Test Graph

Data List

NO.	Freq. [MHz]	Reading [dBμV]	Correct Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Verdict
1	4804.5902	45.66	-4.61	41.05	74.00	32.95	150	56	PK	Horizontal	PASS
2	7206.2103	50.39	-1.76	48.63	74.00	25.37	150	0	PK	Horizontal	PASS
3	4804.5902	42.76	-4.61	38.15	54.00	15.85	150	16	AV	Horizontal	PASS
4	7206.2103	43.81	-1.76	42.05	54.00	11.95	150	0	AV	Horizontal	PASS

Test Graph



Data List

NO.	Freq. [MHz]	Reading [dBμV]	Correct Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Verdict
1	4804.5902	43.48	-4.61	38.87	74.00	35.13	150	55	PK	Vertical	PASS
2	7206.2103	44.79	-1.76	43.03	74.00	30.97	150	4	PK	Vertical	PASS
3	4804.5902	35.50	-4.61	30.89	54.00	23.11	150	98	AV	Vertical	PASS
4	7206.2103	37.21	-1.76	35.45	54.00	18.55	150	84	AV	Vertical	PASS

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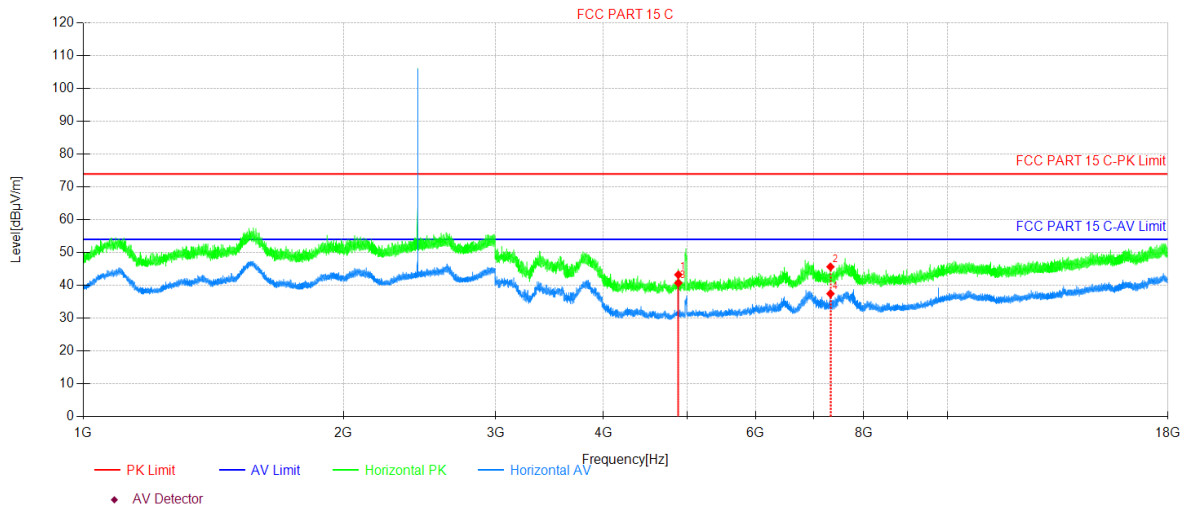
Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

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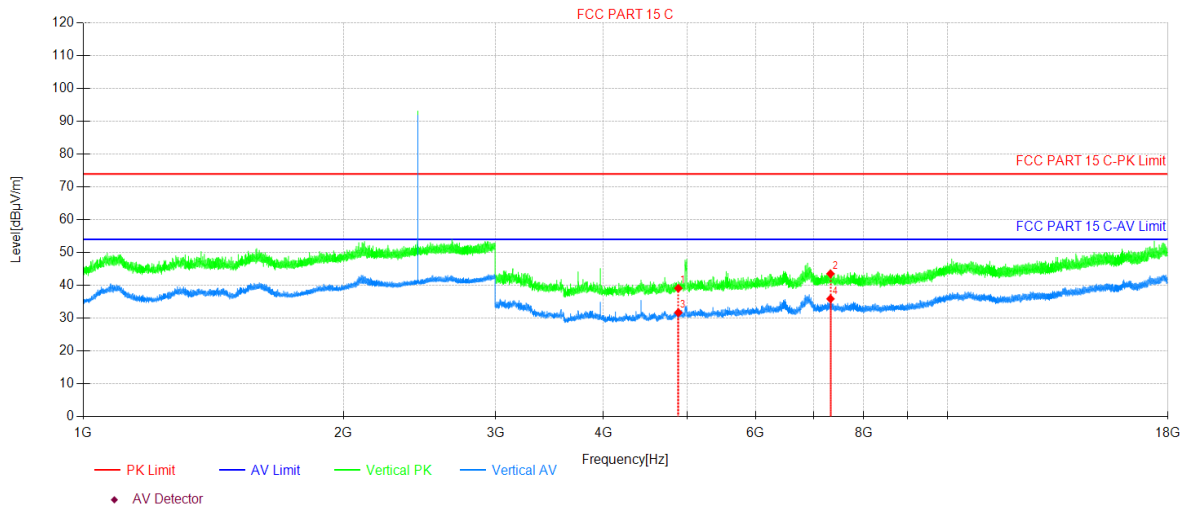
BR+EDR _ Middle Channe: Test Graph



Data List

NO.	Freq. [MHz]	Reading [dBμV]	Correct Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Verdict
1	4882.5941	47.97	-4.72	43.25	74.00	30.75	150	15	PK	Horizontal	PASS
2	7323.2162	47.14	-1.49	45.65	74.00	28.35	150	0	PK	Horizontal	PASS
3	4882.5941	45.44	-4.72	40.72	54.00	13.28	150	4	AV	Horizontal	PASS
4	7323.2162	38.94	-1.49	37.45	54.00	16.55	150	0	AV	Horizontal	PASS

Test Graph



Data List

NO.	Freq. [MHz]	Reading [dBμV]	Correct Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Verdict
1	4882.5941	43.83	-4.72	39.11	74.00	34.89	150	94	PK	Vertical	PASS
2	7323.2162	45.04	-1.49	43.55	74.00	30.45	150	108	PK	Vertical	PASS
3	4882.5941	36.41	-4.72	31.69	54.00	22.31	150	177	AV	Vertical	PASS
4	7323.2162	37.37	-1.49	35.88	54.00	18.12	150	177	AV	Vertical	PASS

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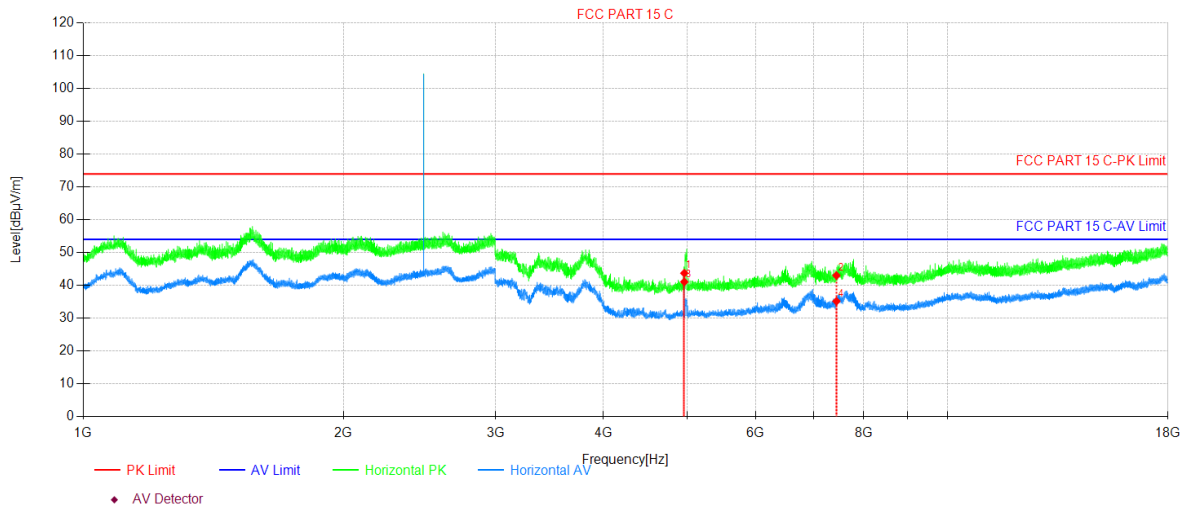
Fax: +86-755-28230886

E-mail: info@uttlab.com

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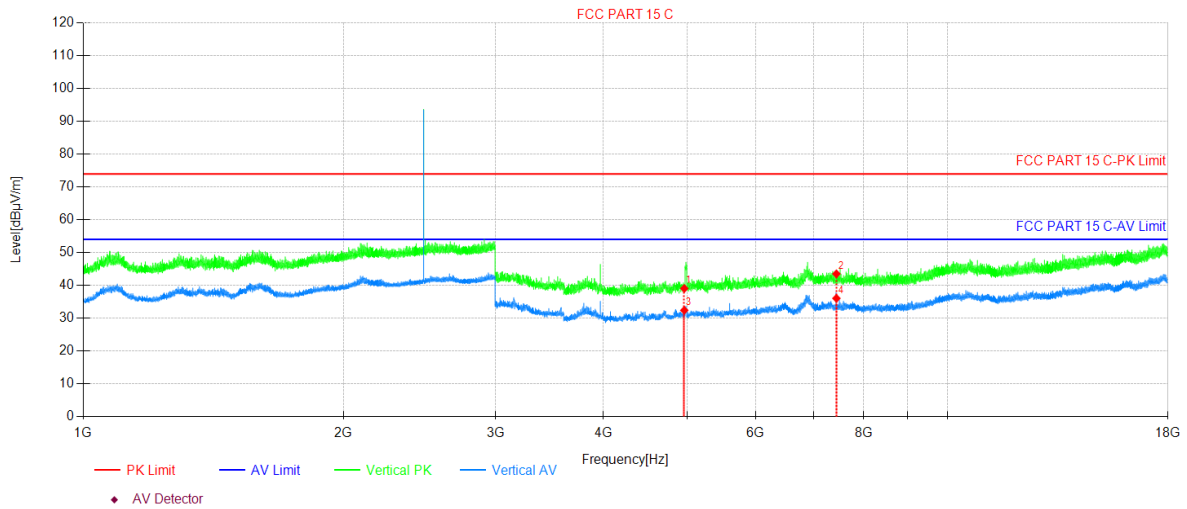
BR+EDR _ Highest Channel Test Graph



Data List

NO.	Freq. [MHz]	Reading [dBμV]	Correct Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Verdict
1	4960.598	48.57	-4.86	43.71	74.00	30.29	150	0	PK	Horizontal	PASS
2	7440.222	44.35	-1.34	43.01	74.00	30.99	150	92	PK	Horizontal	PASS
3	4960.598	45.93	-4.86	41.07	54.00	12.93	150	25	AV	Horizontal	PASS
4	7440.222	36.51	-1.34	35.17	54.00	18.83	150	134	AV	Horizontal	PASS

Test Graph



Data List

NO.	Freq. [MHz]	Reading [dBμV]	Correct Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Verdict
1	4960.598	43.91	-4.86	39.05	74.00	34.95	150	0	PK	Vertical	PASS
2	7440.222	44.85	-1.34	43.51	74.00	30.49	150	106	PK	Vertical	PASS
3	4960.598	37.25	-4.86	32.39	54.00	21.61	150	62	AV	Vertical	PASS
4	7440.222	37.38	-1.34	36.04	54.00	17.96	150	119	AV	Vertical	PASS

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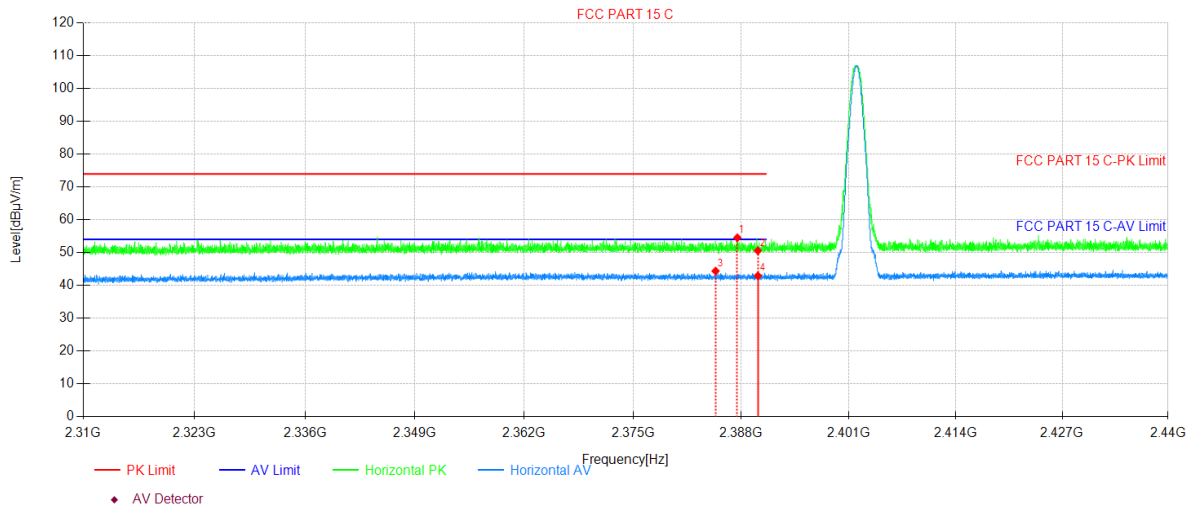
<http://www.uttlab.com>

UTTR-RF-RSS247-V1.1

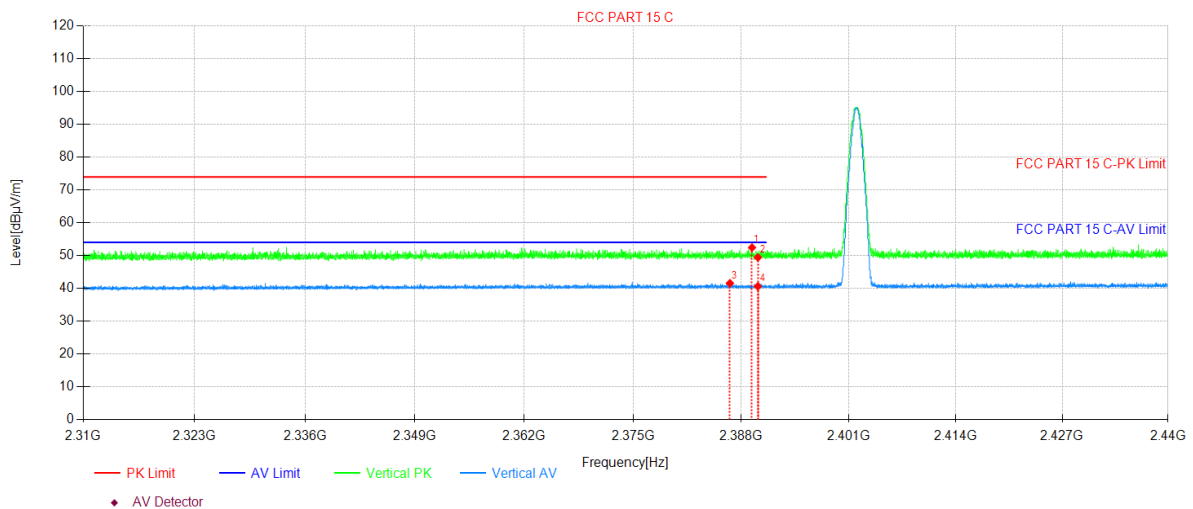
A.8 BAND EDGE MEASUREMENTS (RADIATED)

BR+EDR_Lowest Channel:

Test Graph

**Data List**

NO.	Freq. [MHz]	Reading [dBμV]	Correct Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Verdict
1	2387.5398	55.32	-0.80	54.52	74.00	19.48	150	152	PK	Horizontal	PASS
2	2390.01	51.37	-0.80	50.57	74.00	23.43	150	152	PK	Horizontal	PASS
3	2384.9135	45.19	-0.82	44.37	54.00	9.63	150	142	AV	Horizontal	PASS
4	2390.01	43.70	-0.80	42.90	54.00	11.10	150	142	AV	Horizontal	PASS

Test Graph**Data List**

NO.	Freq. [MHz]	Reading [dBμV]	Correct Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Verdict
1	2389.3079	53.24	-0.80	52.44	74.00	21.56	150	316	PK	Vertical	PASS
2	2390.01	50.25	-0.80	49.45	74.00	24.55	150	15	PK	Vertical	PASS
3	2386.6427	42.37	-0.81	41.56	54.00	12.44	150	38	AV	Vertical	PASS
4	2390.01	41.43	-0.80	40.63	54.00	13.37	150	103	AV	Vertical	PASS

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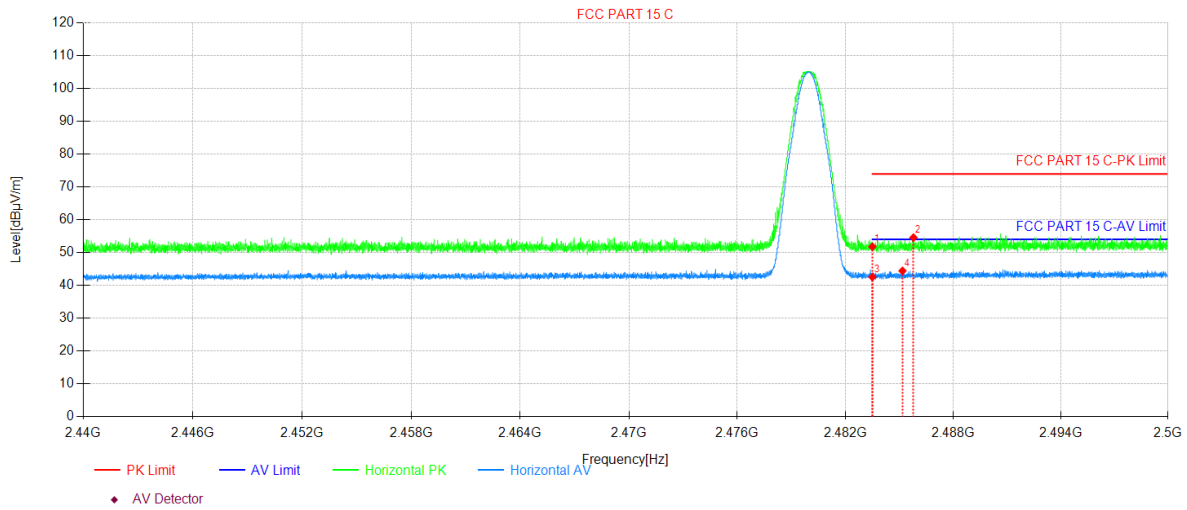
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E-mail: info@uttlab.com

<http://www.uttlab.com>

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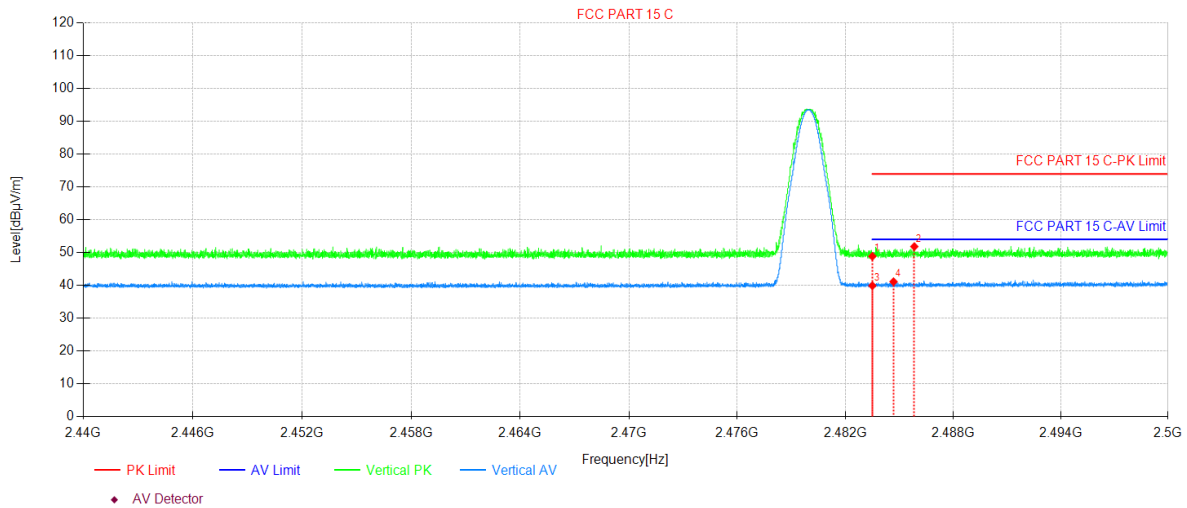
BR+EDR _ Highest Channel Test Graph



Data List

NO.	Freq. [MHz]	Reading [dBμV]	Correct Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Verdict
1	2483.5044	52.08	-0.29	51.79	74.00	22.21	150	155	PK	Horizontal	PASS
2	2485.7906	54.84	-0.27	54.57	74.00	19.43	150	155	PK	Horizontal	PASS
3	2483.5044	42.85	-0.29	42.56	54.00	11.44	150	155	AV	Horizontal	PASS
4	2485.1785	44.69	-0.27	44.42	54.00	9.58	150	155	AV	Horizontal	PASS

Test Graph



Data List

NO.	Freq. [MHz]	Reading [dBμV]	Correct Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Verdict
1	2483.5044	49.14	-0.29	48.85	74.00	25.15	150	5	PK	Vertical	PASS
2	2485.8386	52.10	-0.27	51.83	74.00	22.17	150	357	PK	Vertical	PASS
3	2483.5044	40.18	-0.29	39.89	54.00	14.11	150	192	AV	Vertical	PASS
4	2484.6805	41.37	-0.27	41.10	54.00	12.90	150	330	AV	Vertical	PASS

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Remark:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Limit - Result
4. For Radiated Emission above 18GHz, there was not any unwanted emission detected.
5. The testing of Radiated Emissions was performed in Dongguan DN Testing Co., Ltd.



APPENDIX 1 PHOTOS OF TEST SETUP

See test photos attached in Appendix 1 for the actual connections between Product and support equipment.

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal photos.

*** End of Report ***

The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of UnionTrust, this report can't be reproduced except in full.
