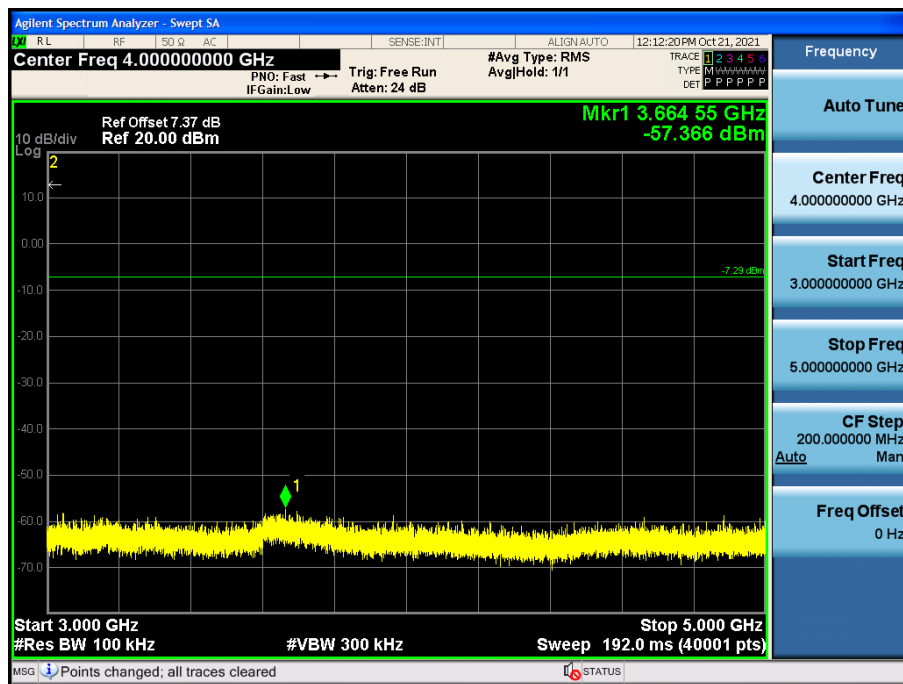


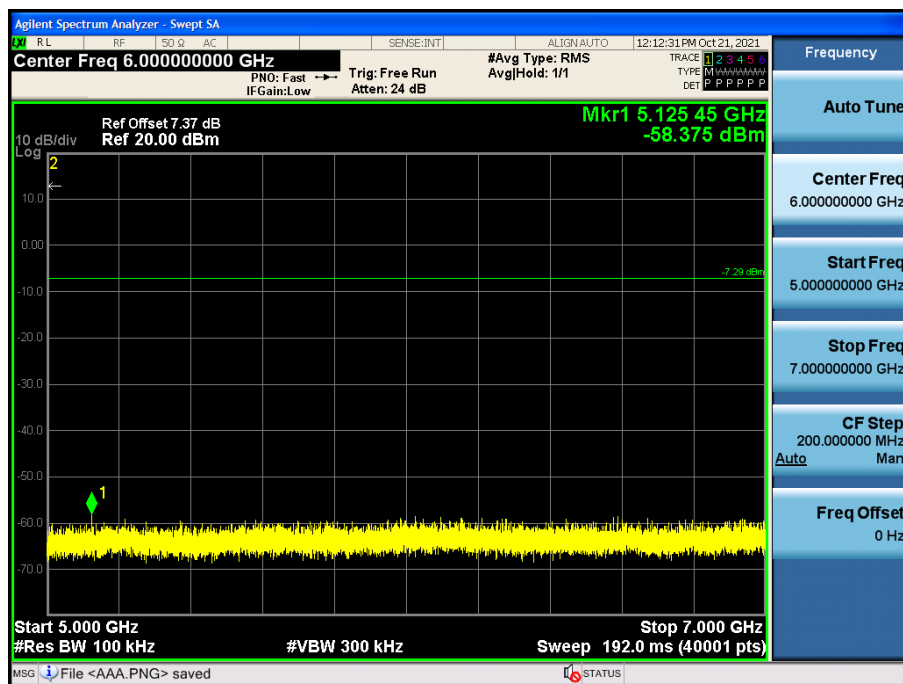
Test Plots(8DPSK)- 3 GHz - 5 GHz

Spurious Emission (CH.39)



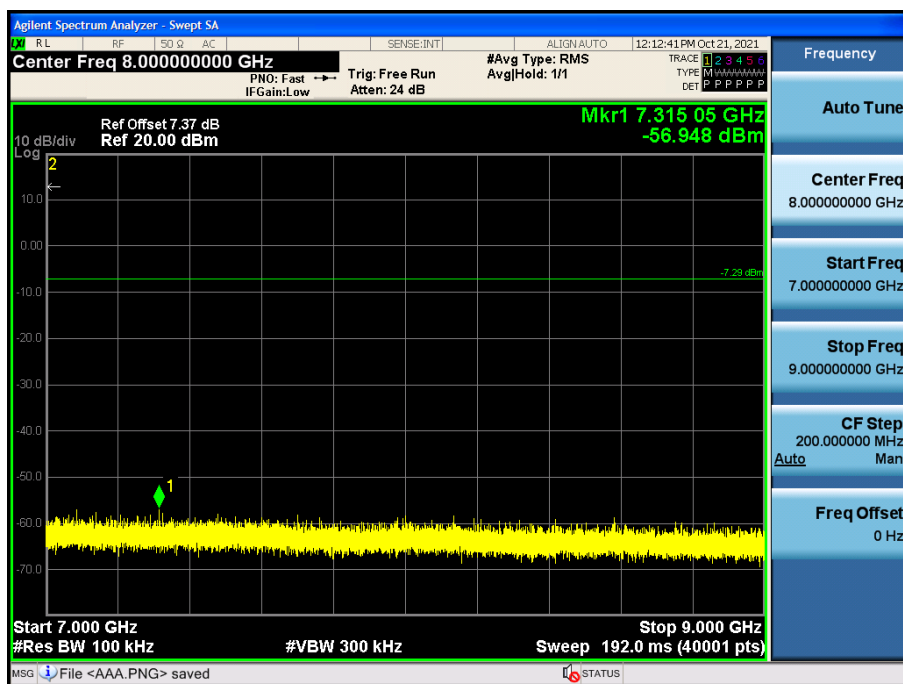
Test Plots (8DPSK)- 5 GHz - 7 GHz

Spurious Emission (CH.39)



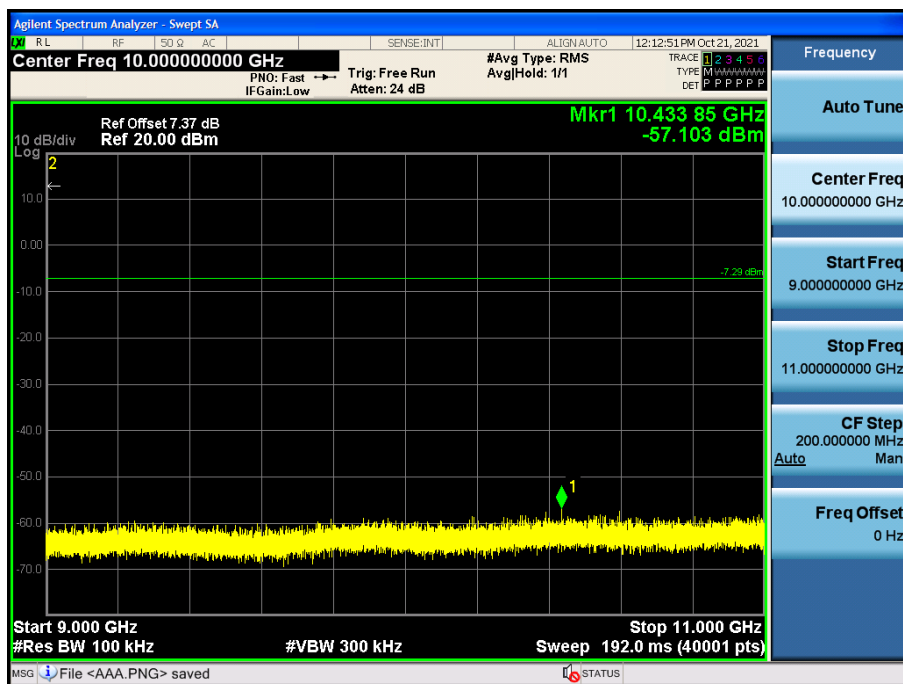
Test Plots(8DPSK)- 7 GHz - 9 GHz

Spurious Emission (CH.39)



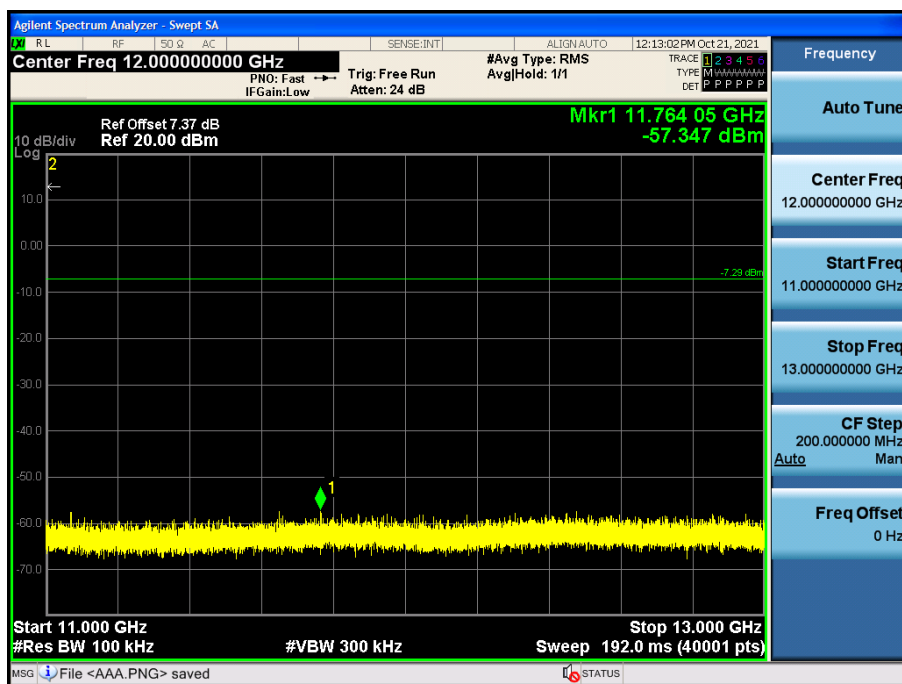
Test Plots(8DPSK)- 9 GHz - 11 GHz

Spurious Emission (CH.39)



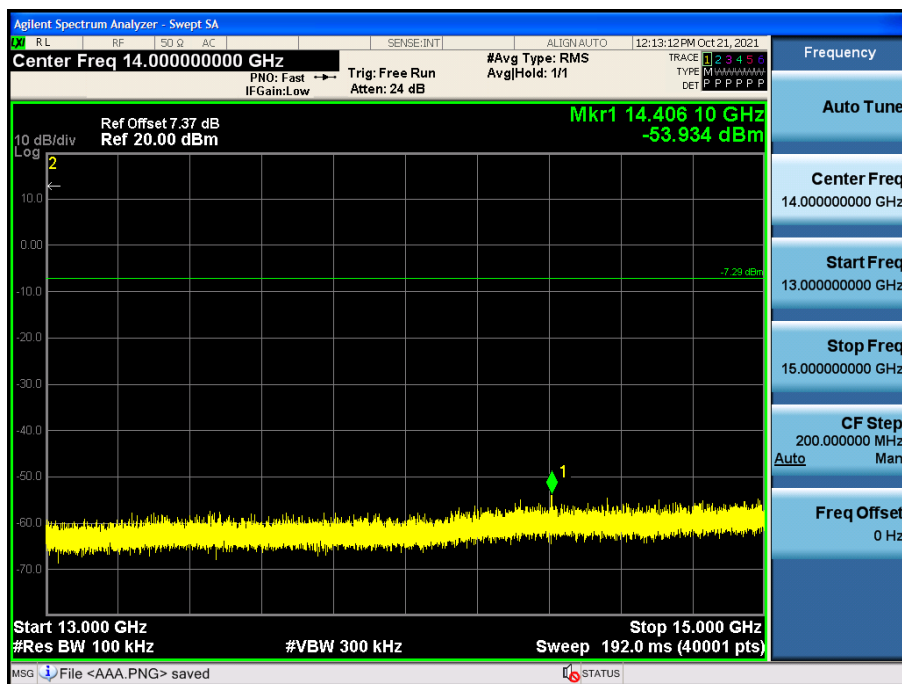
Test Plots(8DPSK) 11 GHz - 13 GHz

Spurious Emission (CH.39)



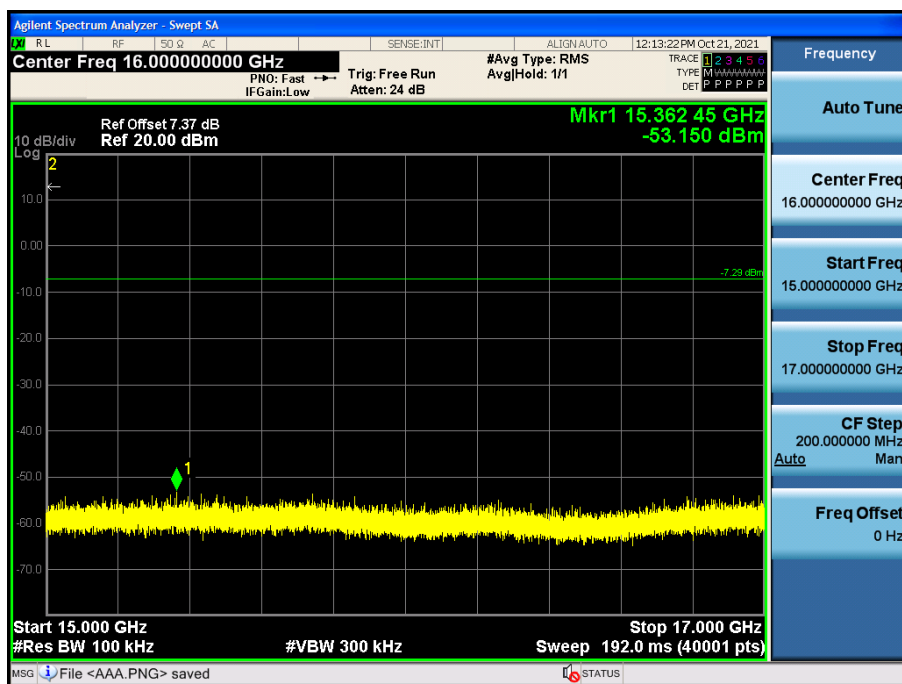
Test Plots (8DPSK)- 13 GHz – 15 GHz

Spurious Emission (CH.39)



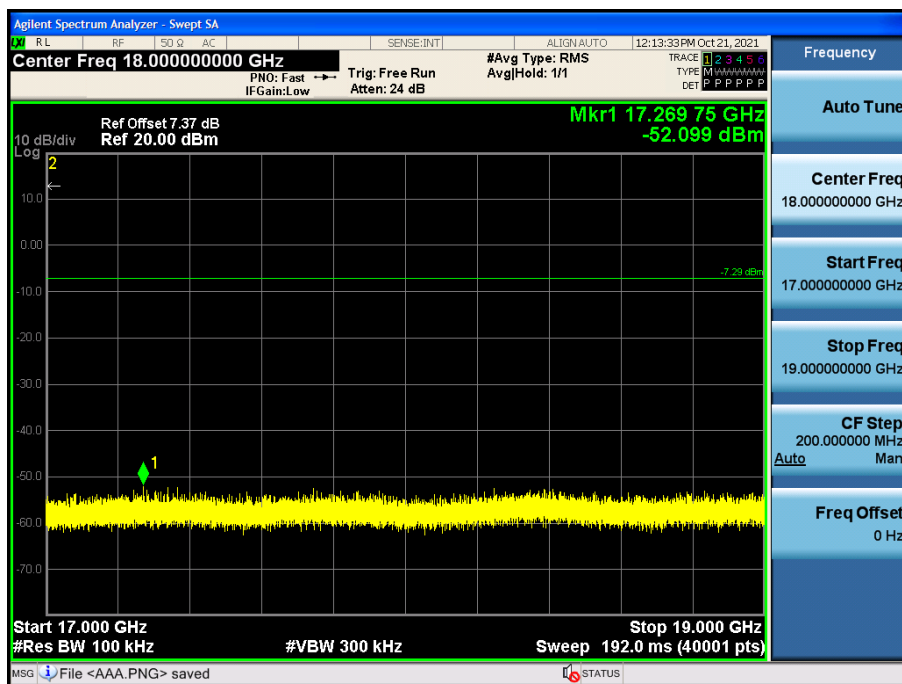
Test Plots(8DPSK)– 15 GHz - 17 GHz

Spurious Emission (CH.39)



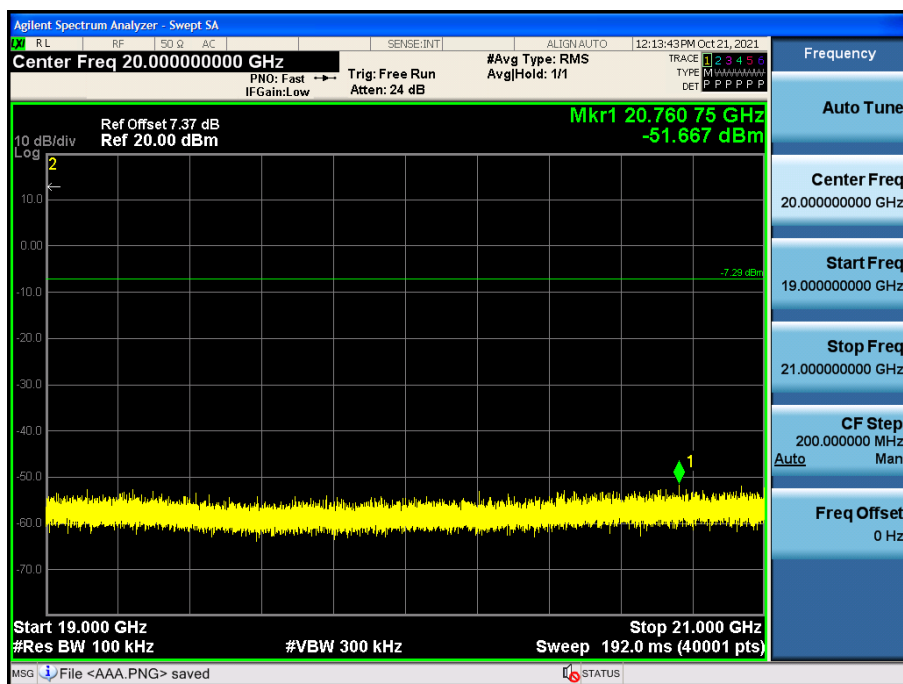
Test Plots(8DPSK)- 17 GHz - 19 GHz

Spurious Emission (CH.39)



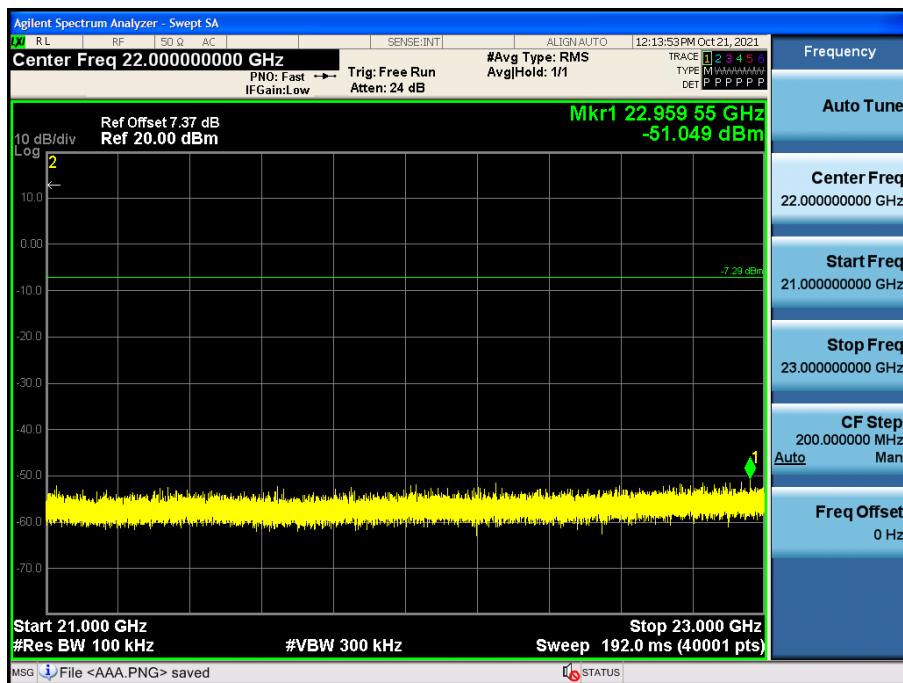
Test Plots (8DPSK)- 19 GHz - 21 GHz

Spurious Emission (CH.39)



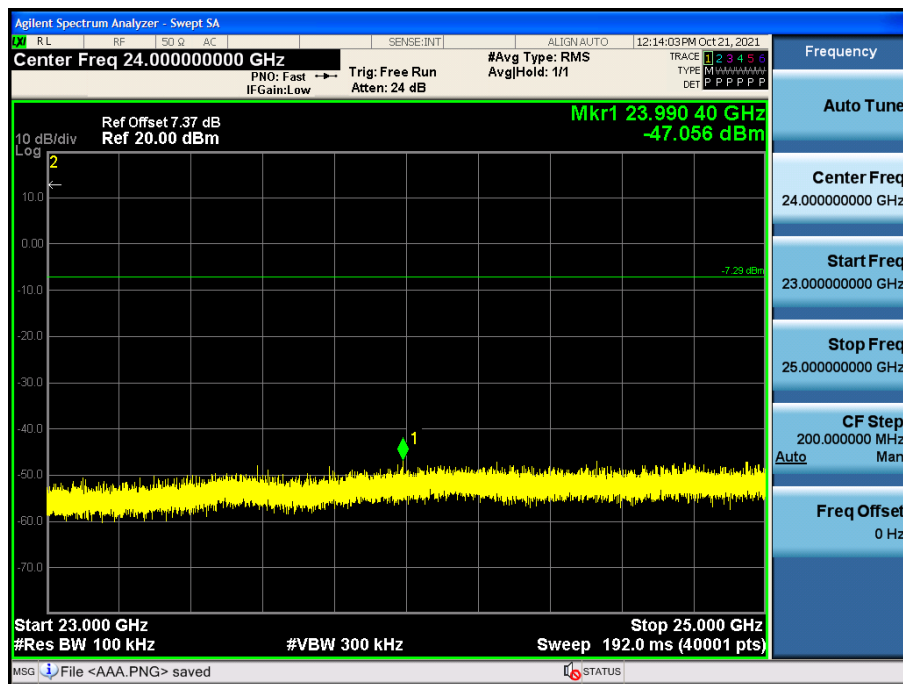
Test Plots (8DPSK)- 21 GHz - 23 GHz

Spurious Emission (CH.39)



Test Plots (8DPSK)- 23 GHz - 25 GHz

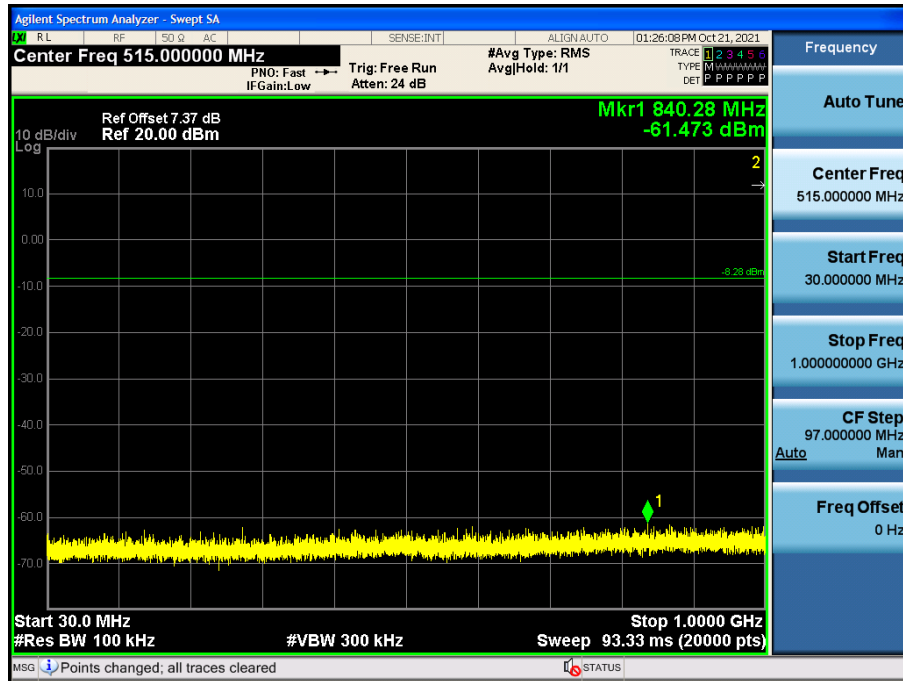
Spurious Emission (CH.39)



[Ant.2]

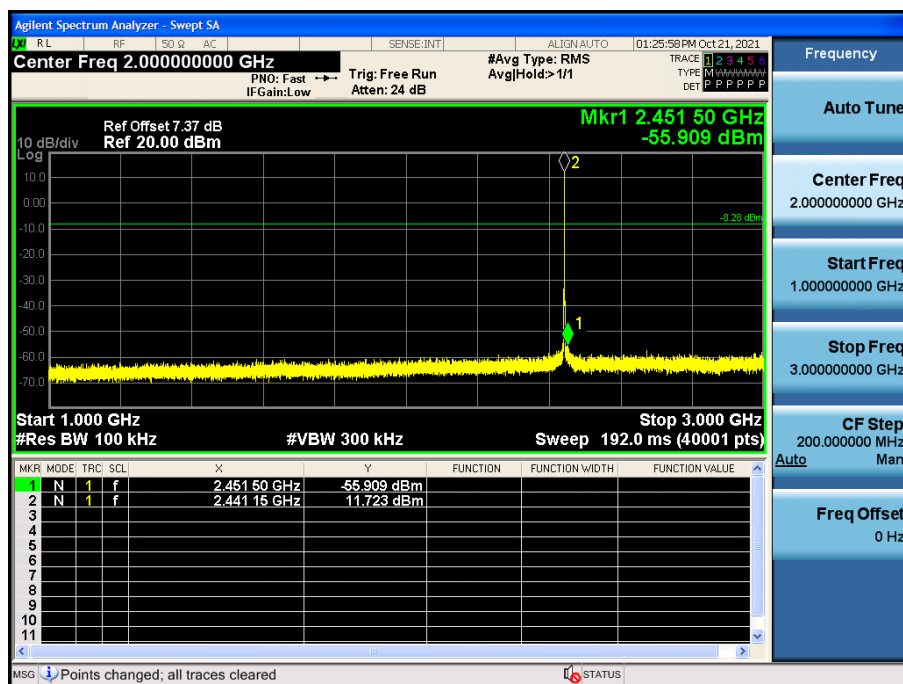
Test Plots (8DPSK)- 30 MHz - 1 GHz

Spurious Emission (CH.39)



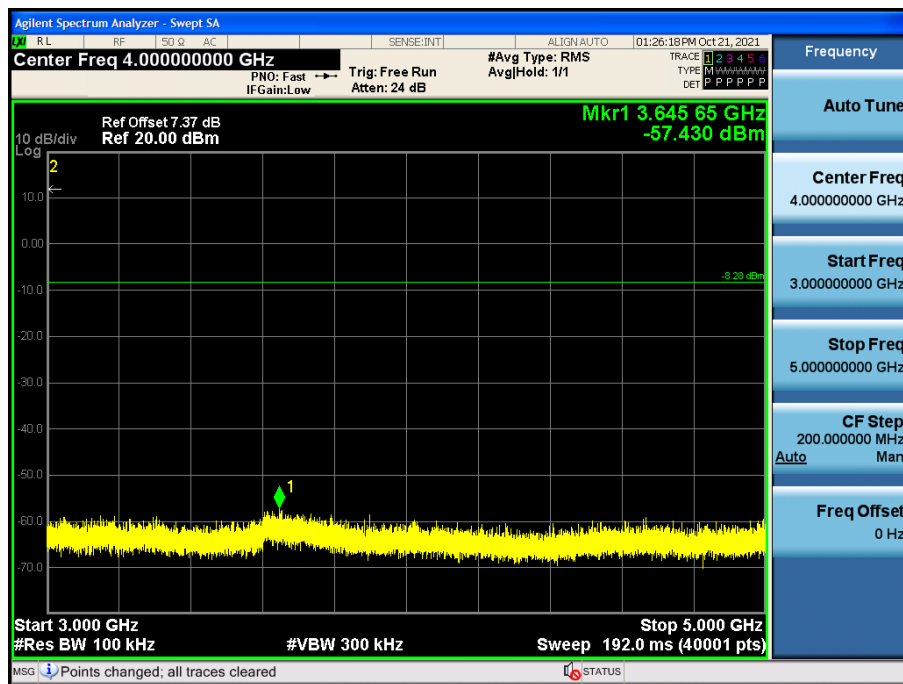
Test Plots (8DPSK)- 1 GHz – 3 GHz

Spurious Emission (CH.39)



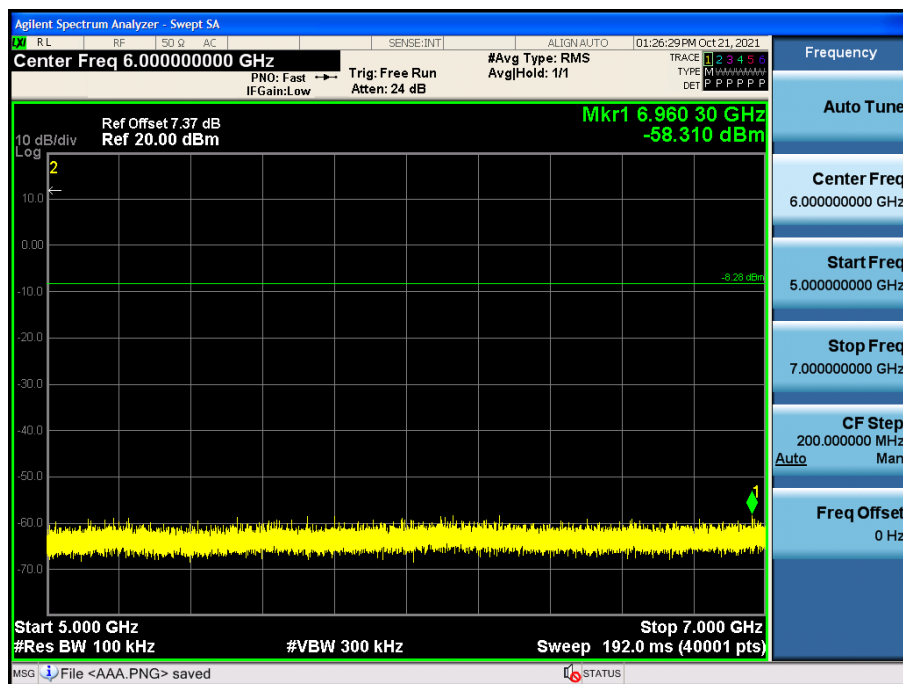
Test Plots(8DPSK)- 3 GHz - 5 GHz

Spurious Emission (CH.39)



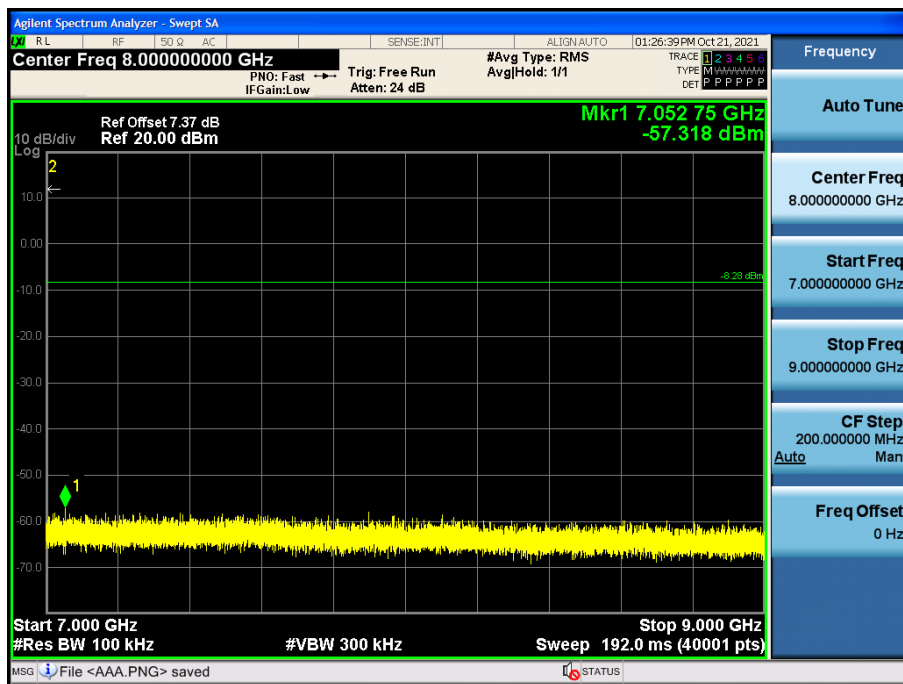
Test Plots (8DPSK)- 5 GHz - 7 GHz

Spurious Emission (CH.39)



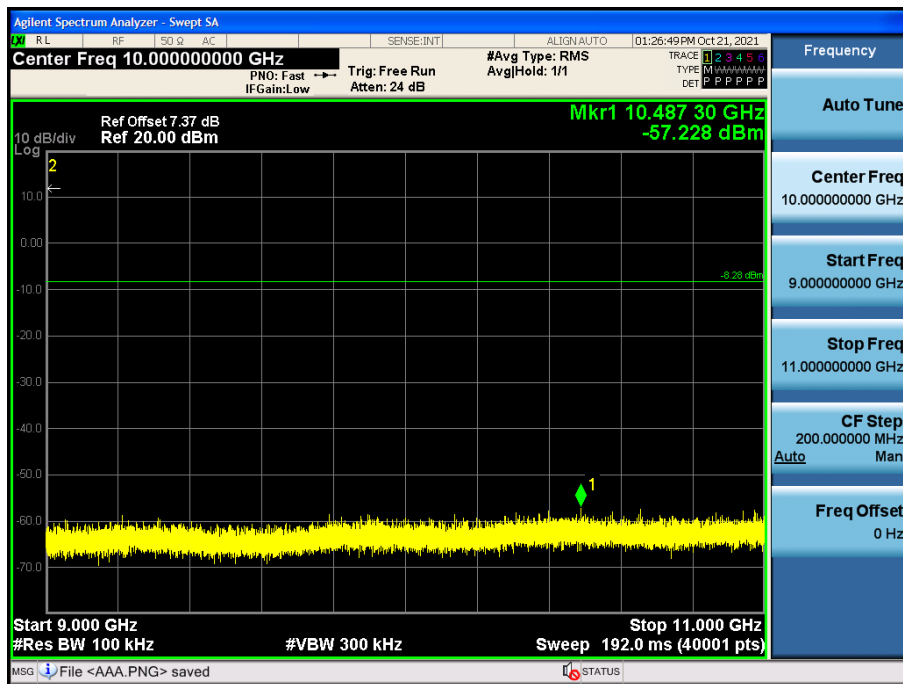
Test Plots(8DPSK)- 7 GHz - 9 GHz

Spurious Emission (CH.39)



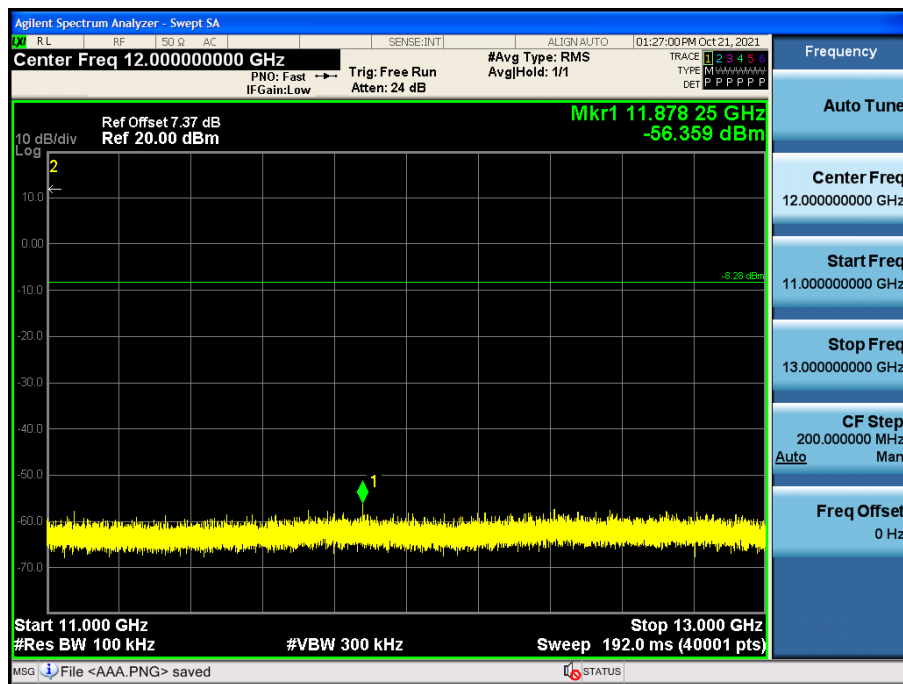
Test Plots(8DPSK)- 9 GHz - 11 GHz

Spurious Emission (CH.39)



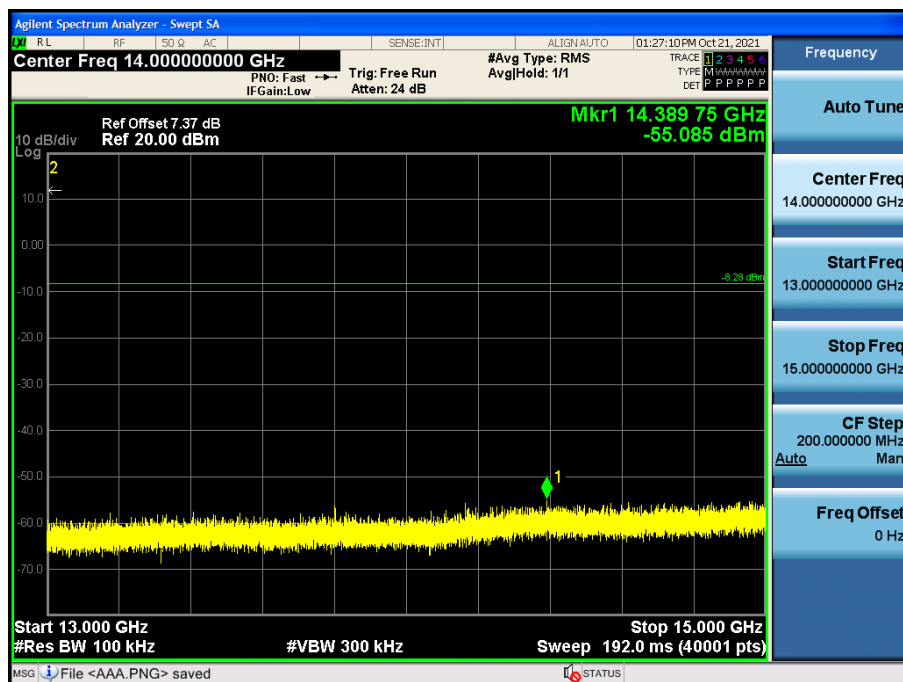
Test Plots(8DPSK) 11 GHz - 13 GHz

Spurious Emission (CH.39)



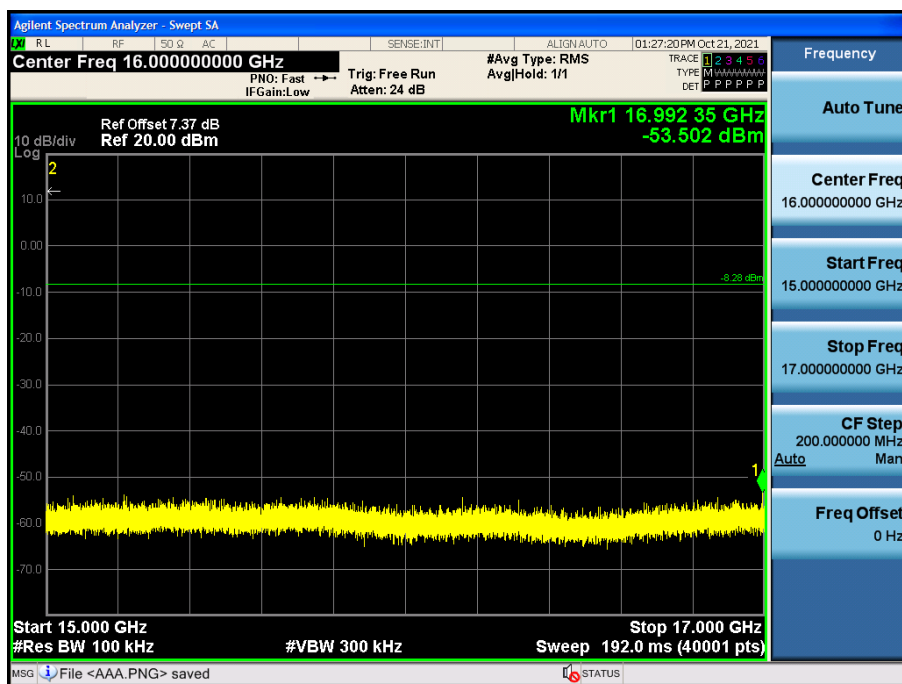
Test Plots (8DPSK)- 13 GHz – 15 GHz

Spurious Emission (CH.39)



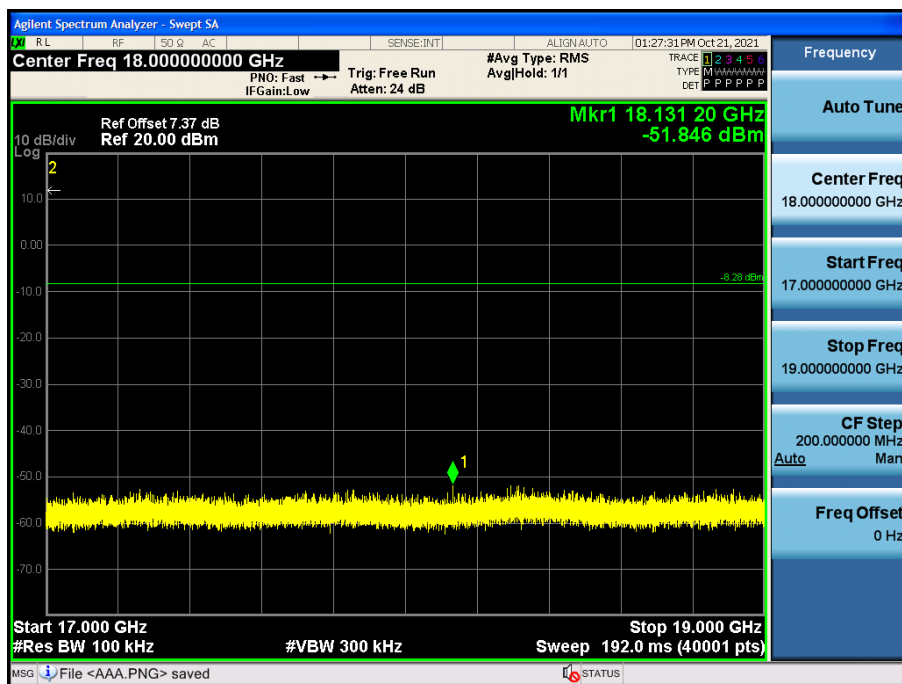
Test Plots(8DPSK)– 15 GHz - 17 GHz

Spurious Emission (CH.39)



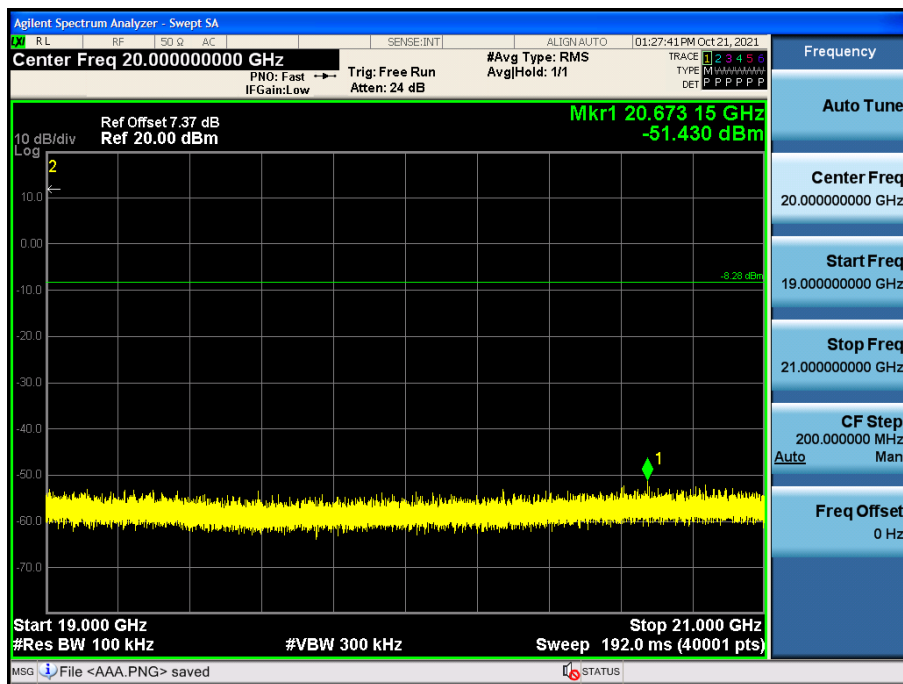
Test Plots(8DPSK)- 17 GHz - 19 GHz

Spurious Emission (CH.39)



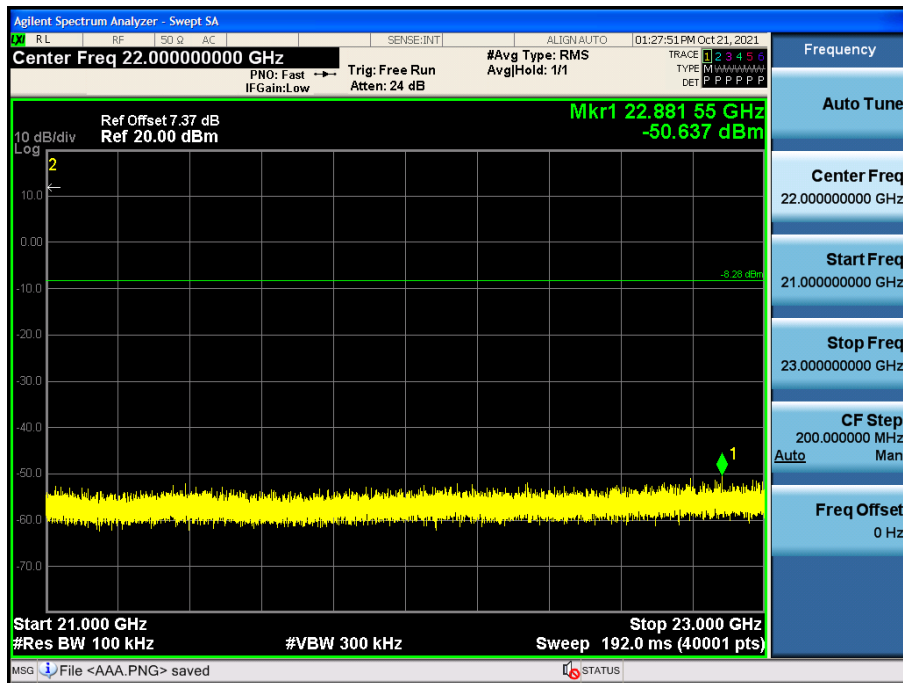
Test Plots (8DPSK)- 19 GHz - 21 GHz

Spurious Emission (CH.39)



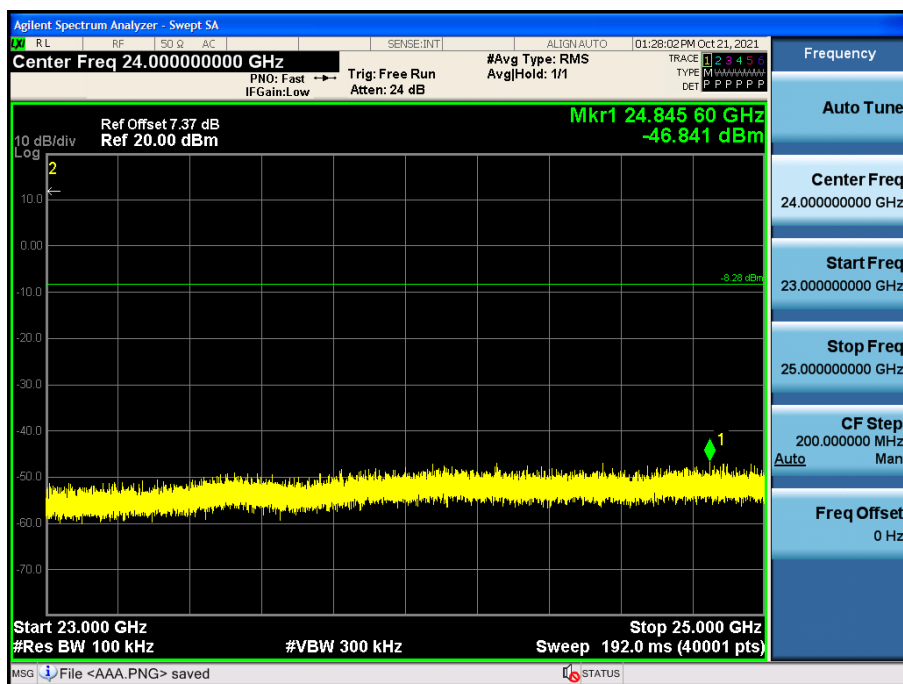
Test Plots (8DPSK)- 21 GHz - 23 GHz

Spurious Emission (CH.39)



Test Plots (8DPSK)- 23 GHz - 25 GHz

Spurious Emission (CH.39)



10.6.2 RADIATED SPURIOUS EMISSIONS

Frequency Range : 9 kHz – 30 MHz

Frequency	Measured Value	A.F+C.L+D.F	POL	Total	Limit	Margin
[MHz]	[dBμV]	[dB/m]	[H/V]	[dBμV/m]	[dBμV/m]	[dB]
No Critical peaks found						

Note:

1. The Measured of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
2. Distance extrapolation factor = $40\log(\text{specific distance} / \text{test distance})$ (dB)
3. Limit line = specific Limits (dBμV) + Distance extrapolation factor
4. Radiated test is performed with hopping off.

Frequency Range : Below 1 GHz

Frequency	Measured Value	A.F+C.L	POL	Total	Limit	Margin
[MHz]	[dBμV]	[dB/m]	[H/V]	[dBμV/m]	[dBμV/m]	[dB]
No Critical peaks found						

Note:

1. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.
2. Radiated test is performed with hopping off.

Frequency Range : Above 1 GHz
[Ant.1]

Operation Mode: CH Low(GFSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4804	43.22	3.75	V	0	46.97	73.98	27.01	PK
4804	33.12	3.75	V	-24.73	12.14	53.98	41.84	AV
7206	40.11	12.70	V	0	52.81	73.98	21.17	PK
7206	26.61	12.70	V	-24.73	14.58	53.98	39.40	AV
4804	44.12	3.75	H	0	47.87	73.98	26.11	PK
4804	34.06	3.75	H	-24.73	13.08	53.98	40.90	AV
7206	40.47	12.70	H	0	53.17	73.98	20.81	PK
7206	27.29	12.70	H	-24.73	15.26	53.98	38.72	AV

Operation Mode: CH Mid(GFSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4882	45.62	3.71	V	0	49.33	73.98	24.65	PK
4882	37.11	3.71	V	-24.73	16.09	53.98	37.89	AV
7323	41.02	11.73	V	0	52.75	73.98	21.23	PK
7323	26.88	11.73	V	-24.73	13.88	53.98	40.10	AV
4882	45.73	3.71	H	0	49.44	73.98	24.54	PK
4882	37.27	3.71	H	-24.73	16.25	53.98	37.73	AV
7323	41.11	11.73	H	0	52.84	73.98	21.14	PK
7323	27.05	11.73	H	-24.73	14.05	53.98	39.93	AV

Operation Mode: CH High(GFSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4960	44.98	4.49	V	0	49.47	73.98	24.51	PK
4960	37.02	4.49	V	-24.73	16.78	53.98	37.20	AV
7440	39.12	12.08	V	0	51.20	73.98	22.78	PK
7440	25.98	12.08	V	-24.73	13.33	53.98	40.65	AV
4960	45.08	4.49	H	0	49.57	73.98	24.41	PK
4960	37.21	4.49	H	-24.73	16.97	53.98	37.01	AV
7440	39.36	12.08	H	0	51.44	73.98	22.54	PK
7440	26.08	12.08	H	-24.73	13.43	53.98	40.55	AV

Operation Mode: CH Low($\pi/4$ DQPSK)

Frequency [MHz]	Measured Value [dB μ V]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
4804	43.02	3.75	V	0	46.77	73.98	27.21	PK
4804	30.99	3.75	V	-24.73	10.01	53.98	43.97	AV
7206	38.89	12.70	V	0	51.59	73.98	22.39	PK
7206	25.61	12.70	V	-24.73	13.58	53.98	40.40	AV
4804	43.21	3.75	H	0	46.96	73.98	27.02	PK
4804	31.15	3.75	H	-24.73	10.17	53.98	43.81	AV
7206	39.02	12.70	H	0	51.72	73.98	22.26	PK
7206	25.74	12.70	H	-24.73	13.71	53.98	40.27	AV

Operation Mode: CH Mid($\pi/4$ DQPSK)

Frequency [MHz]	Measured Value [dB μ V]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
4882	44.69	3.71	V	0	48.40	73.98	25.58	PK
4882	33.12	3.71	V	-24.73	12.10	53.98	41.88	AV
7323	39.41	11.73	V	0	51.14	73.98	22.84	PK
7323	26.48	11.73	V	-24.73	13.48	53.98	40.50	AV
4882	44.85	3.71	H	0	48.56	73.98	25.42	PK
4882	33.31	3.71	H	-24.73	12.29	53.98	41.69	AV
7323	39.55	11.73	H	0	51.28	73.98	22.70	PK
7323	26.66	11.73	H	-24.73	13.66	53.98	40.32	AV

Operation Mode: CH High($\pi/4$ DQPSK)

Frequency [MHz]	Measured Value [dB μ V]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
4960	44.12	4.49	V	0	48.61	73.98	25.37	PK
4960	33.22	4.49	V	-24.73	12.98	53.98	41.00	AV
7440	39.02	12.08	V	0	51.10	73.98	22.88	PK
7440	25.61	12.08	V	-24.73	12.96	53.98	41.02	AV
4960	44.33	4.49	H	0	48.82	73.98	25.16	PK
4960	33.43	4.49	H	-24.73	13.19	53.98	40.79	AV
7440	39.27	12.08	H	0	51.35	73.98	22.63	PK
7440	25.72	12.08	H	-24.73	13.07	53.98	40.91	AV

Operation Mode: CH Low(8DPSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4804	43.12	3.75	V	0	46.87	73.98	27.11	PK
4804	31.02	3.75	V	-24.73	10.04	53.98	43.94	AV
7206	38.91	12.70	V	0	51.61	73.98	22.37	PK
7206	25.62	12.70	V	-24.73	13.59	53.98	40.39	AV
4804	43.33	3.75	H	0	47.08	73.98	26.90	PK
4804	31.23	3.75	H	-24.73	10.25	53.98	43.73	AV
7206	39.01	12.70	H	0	51.71	73.98	22.27	PK
7206	25.71	12.70	H	-24.73	13.68	53.98	40.30	AV

Operation Mode: CH Mid(8DPSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4882	44.78	3.71	V	0	48.49	73.98	25.49	PK
4882	33.12	3.71	V	-24.73	12.10	53.98	41.88	AV
7323	39.51	11.73	V	0	51.24	73.98	22.74	PK
7323	26.61	11.73	V	-24.73	13.61	53.98	40.37	AV
4882	44.91	3.71	H	0	48.62	73.98	25.36	PK
4882	33.28	3.71	H	-24.73	12.26	53.98	41.72	AV
7323	39.62	11.73	H	0	51.35	73.98	22.63	PK
7323	26.71	11.73	H	-24.73	13.71	53.98	40.27	AV

Operation Mode: CH High(8DPSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4960	44.23	4.49	V	0	48.72	73.98	25.26	PK
4960	33.22	4.49	V	-24.73	12.98	53.98	41.00	AV
7440	39.11	12.08	V	0	51.19	73.98	22.79	PK
7440	25.48	12.08	V	-24.73	12.83	53.98	41.15	AV
4960	44.47	4.49	H	0	48.96	73.98	25.02	PK
4960	33.42	4.49	H	-24.73	13.18	53.98	40.80	AV
7440	39.23	12.08	H	0	51.31	73.98	22.67	PK
7440	25.69	12.08	H	-24.73	13.04	53.98	40.94	AV

[Ant.2]

Operation Mode: CH Low(GFSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4804	43.01	3.75	V	0	46.76	73.98	27.22	PK
4804	29.99	3.75	V	-24.73	9.01	53.98	44.97	AV
7206	39.33	12.70	V	0	52.03	73.98	21.95	PK
7206	25.71	12.70	V	-24.73	13.68	53.98	40.30	AV
4804	43.24	3.75	H	0	46.99	73.98	26.99	PK
4804	30.23	3.75	H	-24.73	9.25	53.98	44.73	AV
7206	39.49	12.70	H	0	52.19	73.98	21.79	PK
7206	25.83	12.70	H	-24.73	13.80	53.98	40.18	AV

Operation Mode: CH Mid(GFSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4882	43.12	3.71	V	0	46.83	73.98	27.15	PK
4882	29.61	3.71	V	-24.73	8.59	53.98	45.39	AV
7323	40.12	11.73	V	0	51.85	73.98	22.13	PK
7323	26.22	11.73	V	-24.73	13.22	53.98	40.76	AV
4882	43.32	3.71	H	0	47.03	73.98	26.95	PK
4882	29.71	3.71	H	-24.73	8.69	53.98	45.29	AV
7323	40.27	11.73	H	0	52.00	73.98	21.98	PK
7323	26.42	11.73	H	-24.73	13.42	53.98	40.56	AV

Operation Mode: CH High(GFSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4960	42.81	4.49	V	0	47.30	73.98	26.68	PK
4960	28.51	4.49	V	-24.73	8.27	53.98	45.71	AV
7440	39.02	12.08	V	0	51.10	73.98	22.88	PK
7440	25.42	12.08	V	-24.73	12.77	53.98	41.21	AV
4960	42.98	4.49	H	0	47.47	73.98	26.51	PK
4960	28.63	4.49	H	-24.73	8.39	53.98	45.59	AV
7440	39.11	12.08	H	0	51.19	73.98	22.79	PK
7440	25.54	12.08	H	-24.73	12.89	53.98	41.09	AV

Operation Mode: CH Low($\pi/4$ DQPSK)

Frequency [MHz]	Measured Value [dB μ V]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
4804	42.29	3.75	V	0	46.04	73.98	27.94	PK
4804	29.02	3.75	V	-24.73	8.04	53.98	45.94	AV
7206	39.11	12.70	V	0	51.81	73.98	22.17	PK
7206	25.71	12.70	V	-24.73	13.68	53.98	40.30	AV
4804	42.49	3.75	H	0	46.24	73.98	27.74	PK
4804	29.28	3.75	H	-24.73	8.30	53.98	45.68	AV
7206	39.23	12.70	H	0	51.93	73.98	22.05	PK
7206	25.81	12.70	H	-24.73	13.78	53.98	40.20	AV

Operation Mode: CH Mid($\pi/4$ DQPSK)

Frequency [MHz]	Measured Value [dB μ V]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
4882	42.62	3.71	V	0	46.33	73.98	27.65	PK
4882	29.48	3.71	V	-24.73	8.46	53.98	45.52	AV
7323	39.48	11.73	V	0	51.21	73.98	22.77	PK
7323	26.31	11.73	V	-24.73	13.31	53.98	40.67	AV
4882	42.75	3.71	H	0	46.46	73.98	27.52	PK
4882	29.54	3.71	H	-24.73	8.52	53.98	45.46	AV
7323	39.61	11.73	H	0	51.34	73.98	22.64	PK
7323	26.46	11.73	H	-24.73	13.46	53.98	40.52	AV

Operation Mode: CH High($\pi/4$ DQPSK)

Frequency [MHz]	Measured Value [dB μ V]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
4960	42.31	4.49	V	0	46.80	73.98	27.18	PK
4960	28.77	4.49	V	-24.73	8.53	53.98	45.45	AV
7440	39.01	12.08	V	0	51.09	73.98	22.89	PK
7440	25.71	12.08	V	-24.73	13.06	53.98	40.92	AV
4960	42.41	4.49	H	0	46.90	73.98	27.08	PK
4960	28.99	4.49	H	-24.73	8.75	53.98	45.23	AV
7440	39.08	12.08	H	0	51.16	73.98	22.82	PK
7440	25.88	12.08	H	-24.73	13.23	53.98	40.75	AV

Operation Mode: CH Low(8DPSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4804	42.12	3.75	V	0	45.87	73.98	28.11	PK
4804	29.11	3.75	V	-24.73	8.13	53.98	45.85	AV
7206	39.12	12.70	V	0	51.82	73.98	22.16	PK
7206	25.69	12.70	V	-24.73	13.66	53.98	40.32	AV
4804	42.25	3.75	H	0	46.00	73.98	27.98	PK
4804	29.28	3.75	H	-24.73	8.30	53.98	45.68	AV
7206	39.33	12.70	H	0	52.03	73.98	21.95	PK
7206	25.79	12.70	H	-24.73	13.76	53.98	40.22	AV

Operation Mode: CH Mid(8DPSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4882	42.61	3.71	V	0	46.32	73.98	27.66	PK
4882	29.51	3.71	V	-24.73	8.49	53.98	45.49	AV
7323	39.51	11.73	V	0	51.24	73.98	22.74	PK
7323	26.32	11.73	V	-24.73	13.32	53.98	40.66	AV
4882	42.71	3.71	H	0	46.42	73.98	27.56	PK
4882	29.62	3.71	H	-24.73	8.60	53.98	45.38	AV
7323	39.66	11.73	H	0	51.39	73.98	22.59	PK
7323	26.42	11.73	H	-24.73	13.42	53.98	40.56	AV

Operation Mode: CH High(8DPSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4960	42.11	4.49	V	0	46.60	73.98	27.38	PK
4960	28.71	4.49	V	-24.73	8.47	53.98	45.51	AV
7440	39.11	12.08	V	0	51.19	73.98	22.79	PK
7440	25.71	12.08	V	-24.73	13.06	53.98	40.92	AV
4960	42.24	4.49	H	0	46.73	73.98	27.25	PK
4960	28.91	4.49	H	-24.73	8.67	53.98	45.31	AV
7440	39.21	12.08	H	0	51.29	73.98	22.69	PK
7440	25.86	12.08	H	-24.73	13.21	53.98	40.77	AV

[Non-DBS Mode]

Test Case 2

WLAN/BT Ant : 802.11ax(HE20) SU ch. 144 & Bluetooth ANT1 Ch. 0 (GFSK)

Operation Mode:	802.11ax & GFSK
Transfer Rate :	MCS 0 & 1 Mbps
Operating Frequency	5720 & 2402 MHz
Channel No.	144 Ch & 0 Ch

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4804	45.78	6.81	V	0	52.59	73.98	21.39	PK
4804	35.29	6.81	V	-24.73	17.37	53.98	36.61	AV
7206	40.94	14.78	V	0	55.72	73.98	18.26	PK
7206	26.62	14.78	V	-24.73	16.67	53.98	37.31	AV
4804	45.93	6.81	H	0	52.74	73.98	21.24	PK
4804	35.40	6.81	H	-24.73	17.48	53.98	36.50	AV
7206	41.05	14.78	H	0	55.83	73.98	18.15	PK
7206	26.79	14.78	H	-24.73	16.84	53.98	37.14	AV

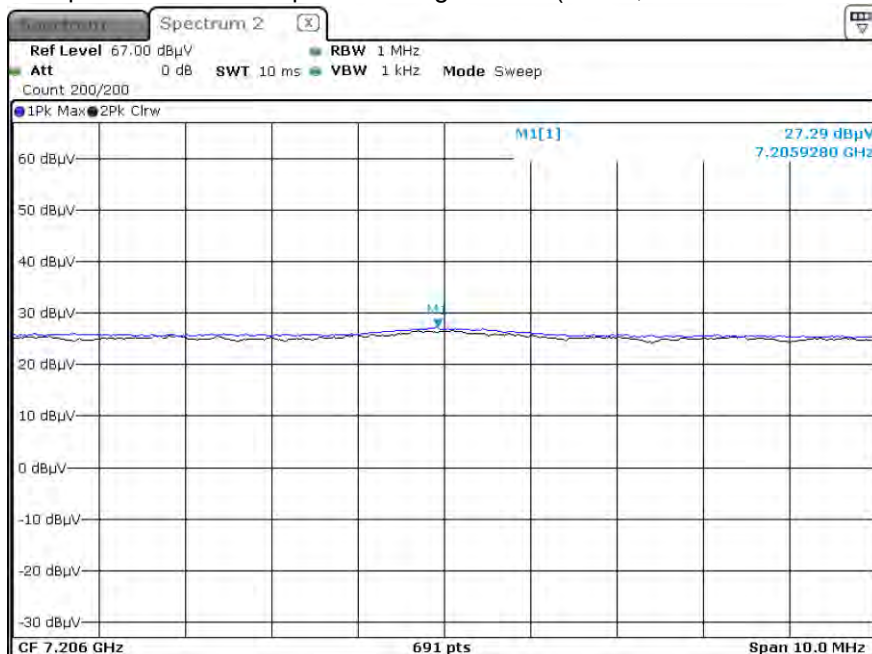
Note :

1. Used duty cycle correction factor.
2. WLAN Non-DBS Data refer to UNII ax Test Report.

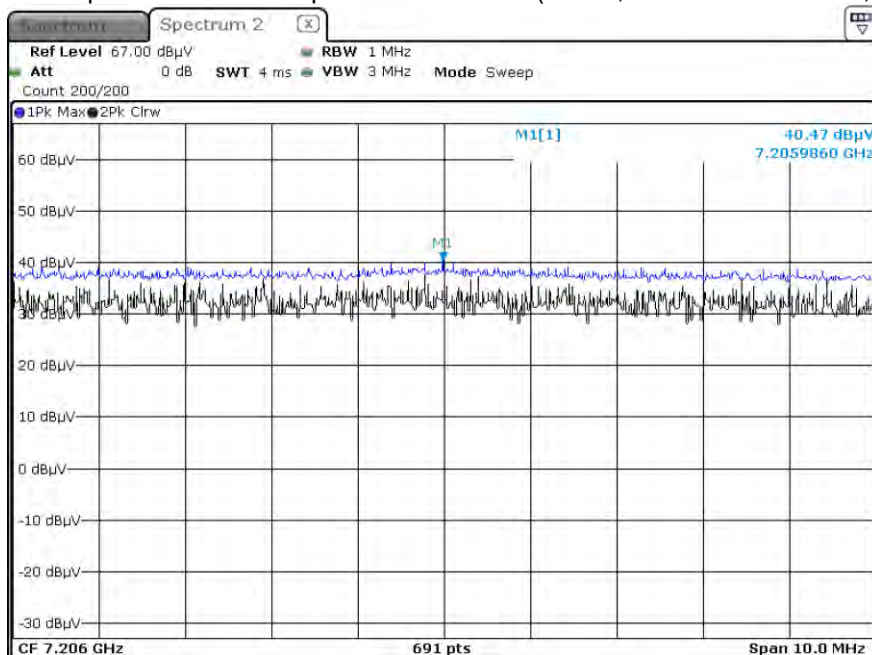
RESULT PLOTS

[Ant.1]

Radiated Spurious Emissions plot – Average Result (GFSK, Ch. 0 3rd Harmonic, Z-H)

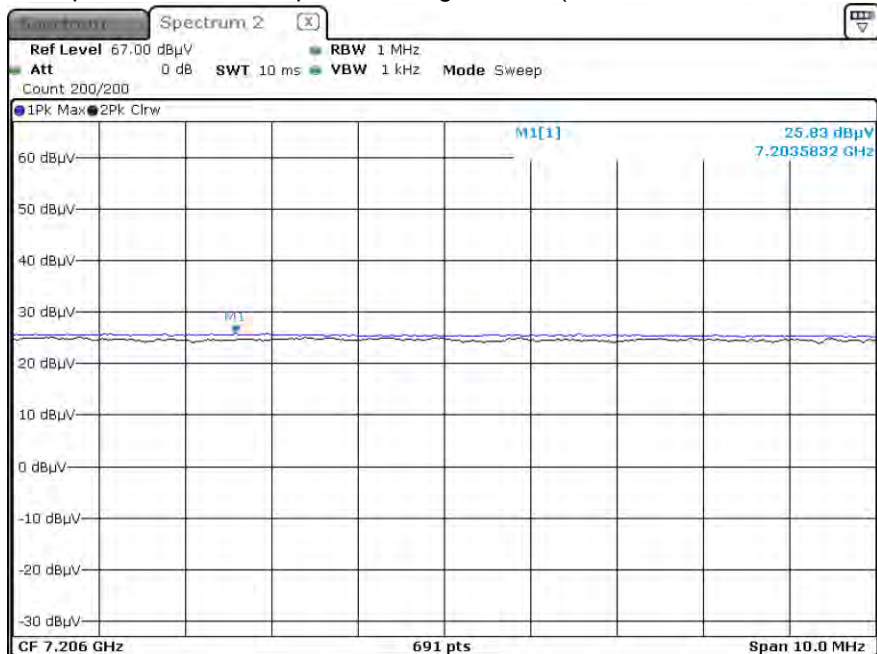


Radiated Spurious Emissions plot – Peak Result (GFSK, Ch. 0 3rd Harmonic, Z-H)

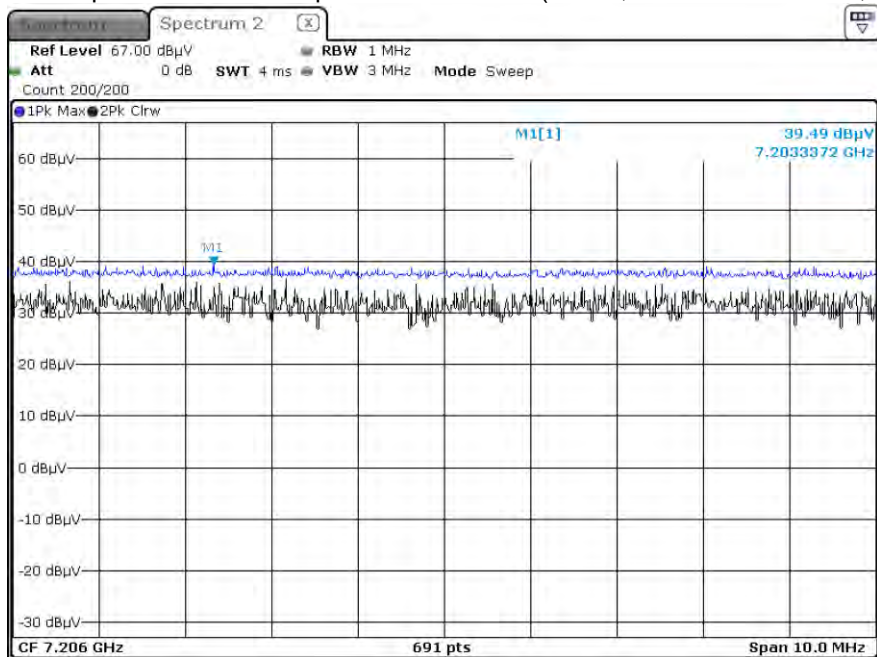


[Ant.2]

Radiated Spurious Emissions plot – Average Result (GFSK, Ch.0 3rd Harmonic, Z-H)



Radiated Spurious Emissions plot – Peak Result (GFSK, Ch.0 3rd Harmonic, Z-H)



Note:

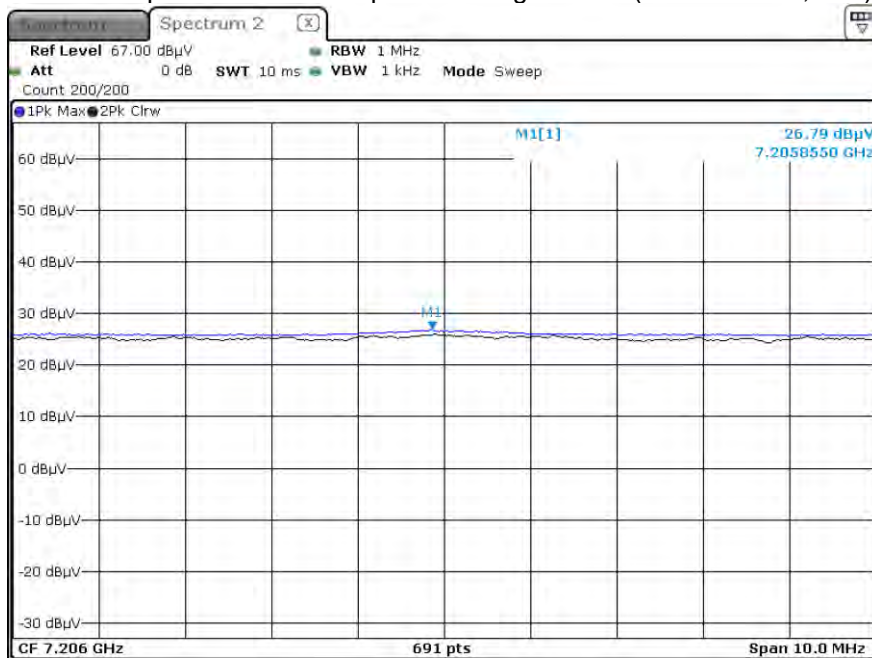
Plot of worst case are only reported.

RESULT PLOTS(Non-DBS)

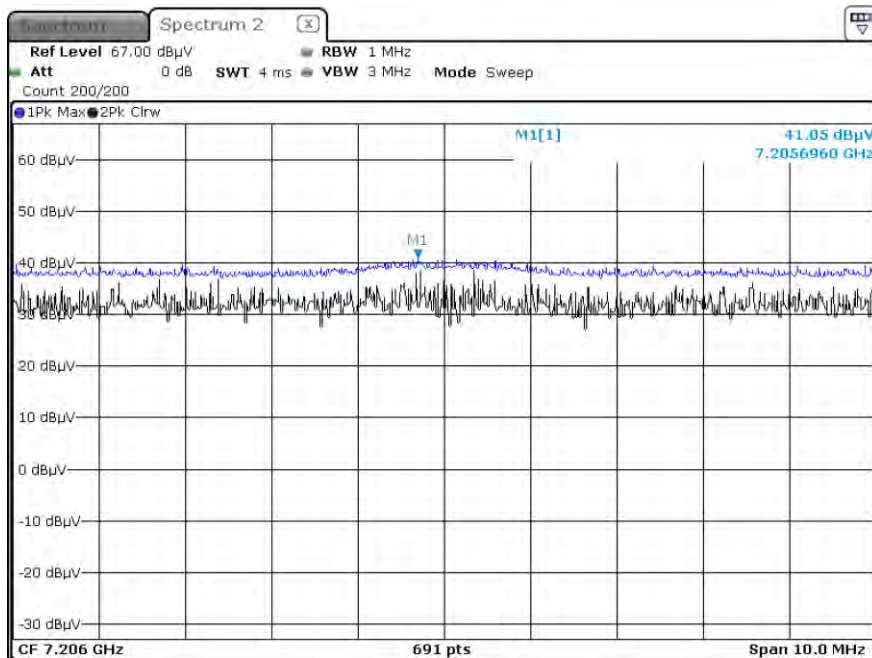
Test Cae 2

WLAN/BT Ant : 802.11ax(HE20) SU ch. 144 & Bluetooth ANT1 Ch. 0 (GFSK)

Radiated Spurious Emissions plot – Average Result (3rd Harmonic, X-H)



Radiated Spurious Emissions plot – Peak Result (3rd Harmonic, X-H)



Note:

Plot of worst case are only reported.

10.6.3 RADIATED RESTRICTED BAND EDGES

[Ant.1]

Operation Mode	Normal(GFSK)
Operating Frequency	2402 MHz, 2480 MHz
Channel No	CH 0, CH 78

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
2390.0	20.955	34.04	H	0	55.00	73.98	18.99	PK
2390.0	11.268	34.04	H	-24.73	20.58	53.98	33.40	AV
2390.0	20.810	34.04	V	0	54.85	73.98	19.13	PK
2390.0	11.112	34.04	V	-24.73	20.42	53.98	33.56	AV
2483.5	26.792	35.00	H	0	61.79	73.98	12.19	PK
2483.5	18.473	35.00	H	-24.73	28.74	53.98	25.24	AV
2483.5	26.682	35.00	V	0	61.68	73.98	12.30	PK
2483.5	18.321	35.00	V	-24.73	28.59	53.98	25.39	AV

Operation Mode	EDR($\pi/4$ DQPSK)
Operating Frequency	2402 MHz, 2480 MHz
Channel No	CH 0, CH 78

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
2390.0	21.359	34.04	H	0	55.40	73.98	18.58	PK
2390.0	11.187	34.04	H	-24.73	20.50	53.98	33.48	AV
2390.0	21.210	34.04	V	0	55.25	73.98	18.73	PK
2390.0	10.999	34.04	V	-24.73	20.31	53.98	33.67	AV
2483.5	24.597	35.00	H	0	59.60	73.98	14.38	PK
2483.5	19.188	35.00	H	-24.73	29.46	53.98	24.52	AV
2483.5	24.321	35.00	V	0	59.32	73.98	14.66	PK
2483.5	19.025	35.00	V	-24.73	29.29	53.98	24.69	AV

Operation Mode	EDR(8DPSK)
Operating Frequency	2402 MHz, 2480 MHz
Channel No	CH 0, CH 78

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
2390.0	21.868	34.04	H	0	55.91	73.98	18.07	PK
2390.0	11.021	34.04	H	-24.73	20.33	53.98	33.65	AV
2390.0	21.699	34.04	V	0	55.74	73.98	18.24	PK
2390.0	10.981	34.04	V	-24.73	20.29	53.98	33.69	AV
2483.5	24.847	35.00	H	0	59.85	73.98	14.13	PK
2483.5	19.222	35.00	H	-24.73	29.49	53.98	24.49	AV
2483.5	24.698	35.00	V	0	59.70	73.98	14.28	PK
2483.5	19.021	35.00	V	-24.73	29.29	53.98	24.69	AV

[Ant.2]

Operation Mode	Normal(GFSK)
Operating Frequency	2402 MHz, 2480 MHz
Channel No	CH 0, CH 78

Frequency [MHz]	Measured Level [dBμV]	A.F+C.L+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
2390.0	21.161	34.04	H	0	55.20	73.98	18.78	PK
2390.0	10.759	34.04	H	-24.73	20.07	53.98	33.91	AV
2390.0	21.021	34.04	V	0	55.06	73.98	18.92	PK
2390.0	10.621	34.04	V	-24.73	19.93	53.98	34.05	AV
2483.5	22.419	35.00	H	0	57.42	73.98	16.56	PK
2483.5	14.059	35.00	H	-24.73	24.33	53.98	29.65	AV
2483.5	22.221	35.00	V	0	57.22	73.98	16.76	PK
2483.5	13.921	35.00	V	-24.73	24.19	53.98	29.79	AV

Operation Mode	EDR($\pi/4$ DQPSK)
Operating Frequency	2402 MHz, 2480 MHz
Channel No	CH 0, CH 78

Frequency [MHz]	Measured Level [dBμV]	A.F+C.L+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
2390.0	21.636	34.04	H	0	55.68	73.98	18.30	PK
2390.0	10.819	34.04	H	-24.73	20.13	53.98	33.85	AV
2390.0	21.489	34.04	V	0	55.53	73.98	18.45	PK
2390.0	10.715	34.04	V	-24.73	20.02	53.98	33.96	AV
2483.5	21.957	35.00	H	0	56.96	73.98	17.02	PK
2483.5	14.552	35.00	H	-24.73	24.82	53.98	29.16	AV
2483.5	21.812	35.00	V	0	56.81	73.98	17.17	PK
2483.5	14.401	35.00	V	-24.73	24.67	53.98	29.31	AV

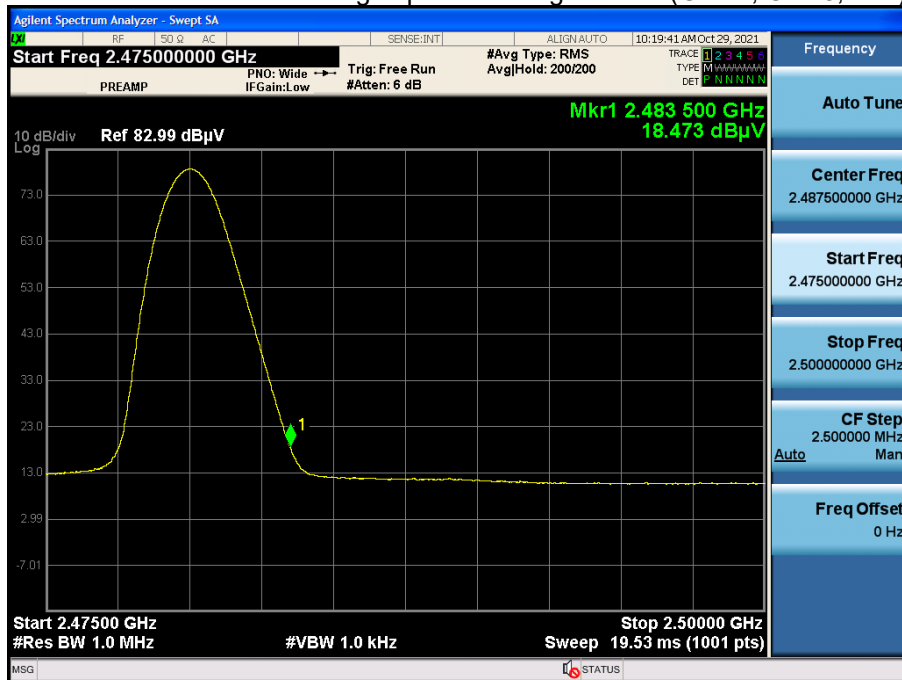
Operation Mode	EDR(8DPSK)
Operating Frequency	2402 MHz, 2480 MHz
Channel No	CH 0, CH 78

Frequency [MHz]	Measured Level [dBμV]	A.F+C.L+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
2390.0	21.384	34.04	H	0	55.42	73.98	18.56	PK
2390.0	10.755	34.04	H	-24.73	20.06	53.98	33.92	AV
2390.0	21.222	34.04	V	0	55.26	73.98	18.72	PK
2390.0	10.612	34.04	V	-24.73	19.92	53.98	34.06	AV
2483.5	23.051	35.00	H	0	58.05	73.98	15.93	PK
2483.5	14.564	35.00	H	-24.73	24.83	53.98	29.15	AV
2483.5	22.912	35.00	V	0	57.91	73.98	16.07	PK
2483.5	14.412	35.00	V	-24.73	24.68	53.98	29.30	AV

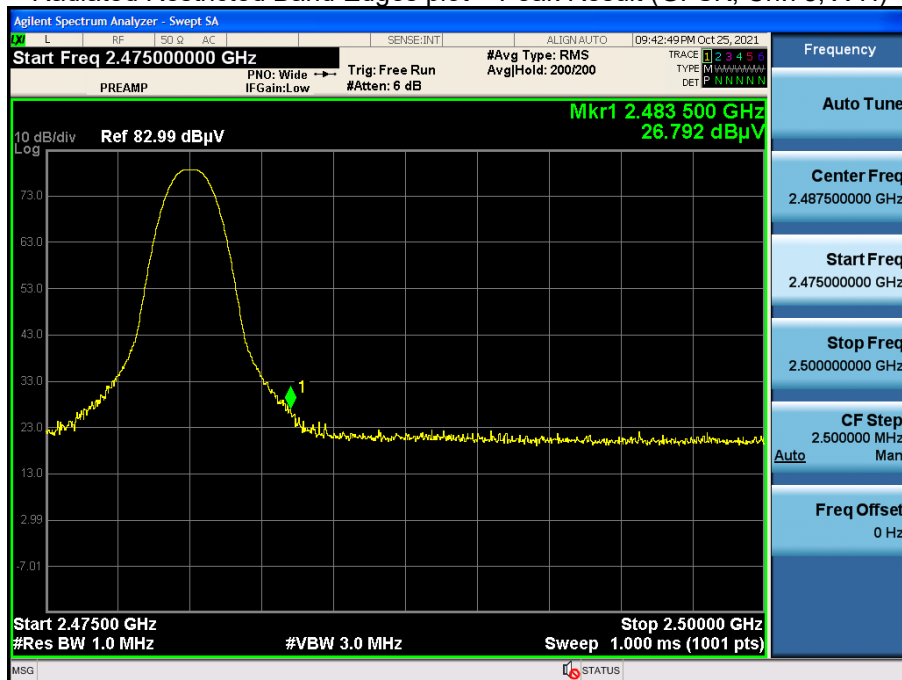
RESULT PLOTS

[Ant.1]

Radiated Restricted Band Edges plot – Average Result (GFSK, Ch.78, X-H)

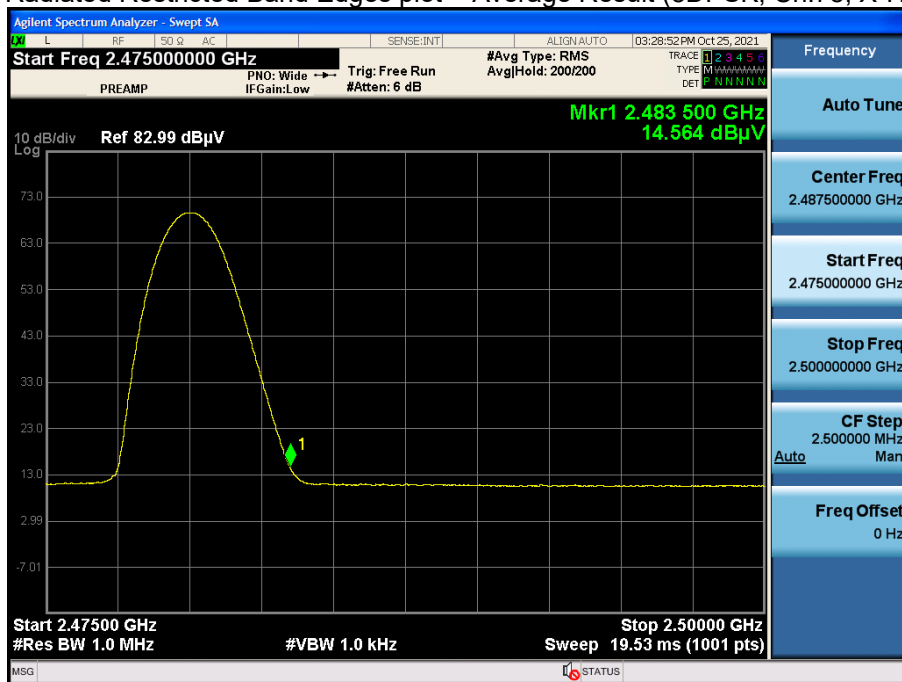


Radiated Restricted Band Edges plot – Peak Result (GFSK, Ch.78, X-H)

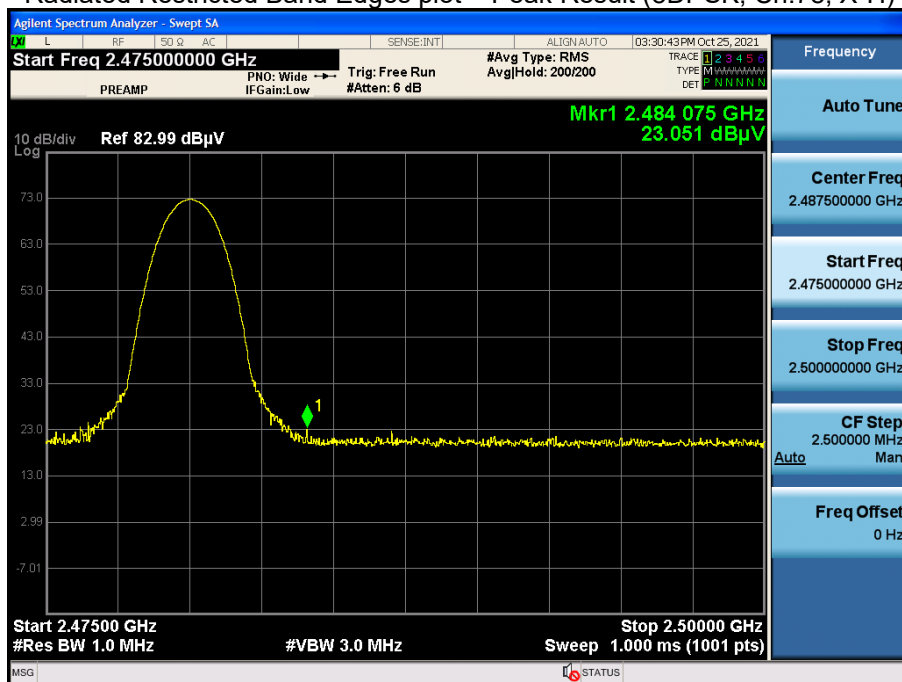


[Ant.2]

Radiated Restricted Band Edges plot – Average Result (8DPSK, Ch.78, X-H)



Radiated Restricted Band Edges plot – Peak Result (8DPSK, Ch.78, X-H)



Note:

Plot of worst case are only reported.

10.7 POWERLINE CONDUCTED EMISSIONS

Conducted Emissions (Line 1)

Test

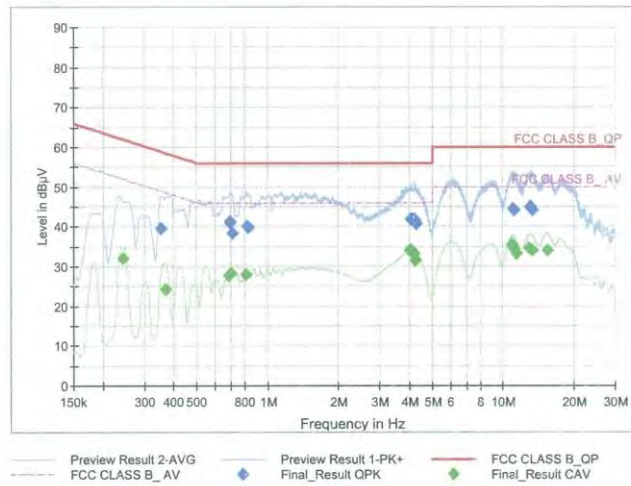
1 / 2

Test Report

Common Information

EUT : SM-X808U
Manufacturer : SAMSUNG
Test Site: SHIELD ROOM
Operating Conditions : BT L1
Operator Name:
Comment:

Full Spectrum



Final Result QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.3525	39.59	58.90	19.31	9.000	L1	OFF	9.6
0.6913	41.08	56.00	14.92	9.000	L1	OFF	9.7
0.6958	41.37	56.00	14.63	9.000	L1	OFF	9.7
0.7093	38.44	56.00	17.56	9.000	L1	OFF	9.7
0.8173	40.15	56.00	15.85	9.000	L1	OFF	9.7
0.8308	39.80	56.00	16.21	9.000	L1	OFF	9.7
4.0460	41.83	56.00	14.17	9.000	L1	OFF	9.8
4.1000	41.95	56.00	14.05	9.000	L1	OFF	9.8
4.1720	41.72	56.00	14.28	9.000	L1	OFF	9.8
4.1878	41.76	56.00	14.24	9.000	L1	OFF	9.8
4.2260	41.27	56.00	14.73	9.000	L1	OFF	9.8
4.3003	40.61	56.00	15.39	9.000	L1	OFF	9.8
11.0165	44.41	60.00	15.59	9.000	L1	OFF	10.1
11.1043	44.27	60.00	15.73	9.000	L1	OFF	10.1
13.0190	45.07	60.00	14.93	9.000	L1	OFF	10.2
13.0303	44.64	60.00	15.36	9.000	L1	OFF	10.2
13.2733	44.18	60.00	15.82	9.000	L1	OFF	10.2
13.2868	44.04	60.00	15.96	9.000	L1	OFF	10.2

2021-11-13

오전 8:24:29

Test

2 / 2

Final Result CAV

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.2445	31.91	51.94	20.03	9.000	L1	OFF	9.6
0.3705	24.33	48.49	24.16	9.000	L1	OFF	9.6
0.6845	27.61	46.00	18.39	9.000	L1	OFF	9.7
0.7003	28.16	46.00	17.84	9.000	L1	OFF	9.7
0.8150	27.90	46.00	18.10	9.000	L1	OFF	9.7
3.9853	34.03	46.00	11.97	9.000	L1	OFF	9.8
4.0483	34.01	46.00	11.99	9.000	L1	OFF	9.8
4.0933	33.90	46.00	12.10	9.000	L1	OFF	9.8
4.1023	33.85	46.00	12.15	9.000	L1	OFF	9.8
4.2013	33.21	46.00	12.79	9.000	L1	OFF	9.8
4.2238	31.40	46.00	14.60	9.000	L1	OFF	9.8
10.9153	35.37	50.00	14.63	9.000	L1	OFF	10.1
11.0390	34.85	50.00	15.15	9.000	L1	OFF	10.1
11.1110	34.29	50.00	15.71	9.000	L1	OFF	10.1
11.4193	33.16	50.00	16.84	9.000	L1	OFF	10.1
12.9043	34.71	50.00	15.29	9.000	L1	OFF	10.2
13.2733	34.11	50.00	15.89	9.000	L1	OFF	10.2
15.4153	34.04	50.00	15.96	9.000	L1	OFF	10.2

2021-11-13

오전 8:24:29

Conducted Emissions (Line 2)

Test

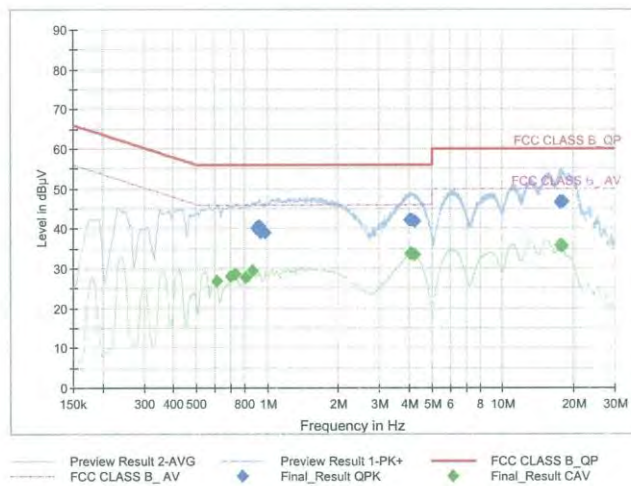
1 / 2

Test Report

Common Information

EUT : SM-X808U
Manufacturer : SAMSUNG
Test Site: SHIELD ROOM
Operating Conditions : BT N
Operator Name:
Comment:

Full Spectrum



Final Result QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.9005	40.02	56.00	15.98	9.000	N	OFF	9.7
0.9185	40.59	56.00	15.41	9.000	N	OFF	9.7
0.9275	40.59	56.00	15.41	9.000	N	OFF	9.7
0.9343	39.49	56.00	16.51	9.000	N	OFF	9.7
0.9410	38.94	56.00	17.06	9.000	N	OFF	9.7
0.9815	38.86	56.00	17.14	9.000	N	OFF	9.7
3.9853	42.00	56.00	14.00	9.000	N	OFF	9.8
4.0640	42.17	56.00	13.83	9.000	N	OFF	9.8
4.0685	42.08	56.00	13.92	9.000	N	OFF	9.8
4.1000	41.99	56.00	14.01	9.000	N	OFF	9.8
4.1360	41.99	56.00	14.01	9.000	N	OFF	9.8
4.2508	41.77	56.00	14.23	9.000	N	OFF	9.8
17.4583	46.30	60.00	13.70	9.000	N	OFF	10.4
17.5775	46.63	60.00	13.37	9.000	N	OFF	10.4
17.7170	46.83	60.00	13.17	9.000	N	OFF	10.4
17.8745	46.60	60.00	13.40	9.000	N	OFF	10.4
17.9668	46.67	60.00	13.33	9.000	N	OFF	10.4
17.9960	46.64	60.00	13.36	9.000	N	OFF	10.4

2021-11-13

오전 8:18:08

Test

2 / 2

Final Result CAV

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.6103	26.84	46.00	19.16	9.000	N	OFF	9.6
0.7003	28.06	46.00	17.94	9.000	N	OFF	9.7
0.7318	28.49	46.00	17.51	9.000	N	OFF	9.7
0.8150	27.56	46.00	18.44	9.000	N	OFF	9.7
0.8690	29.47	46.00	16.53	9.000	N	OFF	9.7
4.0348	33.72	46.00	12.28	9.000	N	OFF	9.8
4.0483	33.68	46.00	12.32	9.000	N	OFF	9.8
4.0685	33.81	46.00	12.19	9.000	N	OFF	9.8
4.1090	33.86	46.00	12.14	9.000	N	OFF	9.8
4.1293	33.71	46.00	12.29	9.000	N	OFF	9.8
4.1360	33.72	46.00	12.28	9.000	N	OFF	9.8
4.2148	33.48	46.00	12.52	9.000	N	OFF	9.8
17.4988	35.83	50.00	14.17	9.000	N	OFF	10.4
17.5753	35.84	50.00	14.16	9.000	N	OFF	10.4
17.6225	35.80	50.00	14.20	9.000	N	OFF	10.4
17.7553	35.75	50.00	14.25	9.000	N	OFF	10.4
17.8160	35.64	50.00	14.36	9.000	N	OFF	10.4
17.8768	35.58	50.00	14.42	9.000	N	OFF	10.4

2021-11-13

오전 8:18:08

11. LIST OF TEST EQUIPMENT

Conducted Test

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
LISN	ENV216	Rohde & Schwarz	102245	08/23/2022	Annual
EMI Test Receiver	ESR	Rohde & Schwarz	101910	06/17/2022	Annual
Temperature Chamber	SU-642	ESPACE	0093008124	03/15/2022	Annual
Signal Analyzer	N9030A	Agilent	MY49431210	01/11/2022	Annual
Power Measurement Set	OSP 120	Rohde & Schwarz	101231	07/02/2022	Annual
Bluetooth Tester	CBT	Rohde & Schwarz	100808	02/23/2022	Annual
Power Meter	N1911A	Agilent	MY45100523	04/08/2022	Annual
Power Sensor	N1921A	Keysight	MY57820067	04/08/2022	Annual
Directional Coupler	87300B	Agilent	3116A03621	11/02/2022	Annual
Power Splitter	11667B	Hewlett Packard	05001	05/20/2022	Annual
DC Power Supply	E3632A	Hewlett Packard	MY50360067	02/16/2022	Annual
Attenuator(10 dB)	8493C	Hewlett Packard	07560	06/26/2022	Annual
Software	EMC32	Rohde & Schwarz	N/A	N/A	N/A
FCC WLAN&BT&BLE Conducted Test Software v3.0	N/A	HCT CO., LTD.	N/A	N/A	N/A

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

Radiated Test

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
Controller(Antenna mast)	CO3000	Innco system	CO3000-4p	N/A	N/A
Antenna Position Tower	MA4640/800-XP-EP	Innco system	N/A	N/A	N/A
Controller	EM1000	Audix	060520	N/A	N/A
Turn Table	N/A	Audix	N/A	N/A	N/A
Bluetooth Tester	TC-3000B	TESCOM	3000B670110	12/18/2021	Annual
Loop Antenna	FMZB 1513	Rohde & Schwarz	1513-333	03/19/2022	Biennial
Hybrid Antenna	VULB 9168	Schwarzbeck	760	02/22/2023	Biennial
Horn Antenna	BBHA 9120D	Schwarzbeck	02299	05/19/2022	Biennial
Horn Antenna (15 GHz ~ 40 GHz)	BBHA9170	Schwarzbeck	BBHA9170541	11/29/2021	Biennial
Spectrum Analyzer	FSV40-N	Rohde & Schwarz	102168	07/05/2022	Annual
Signal Analyzer	N9030A	Agilent	MY49431210	01/11/2022	Annual
Band Reject Filter	WRCJV12-4900-5100-5900- 6100-50SS	Wainwright Instruments	5	06/24/2022	Annual
Band Reject Filter	WRCJV12-4900-5100-5900- 6100-50SS	Wainwright Instruments	6	06/24/2022	Annual
Band Reject Filter	WRCJV2400/2483.5- 2370/2520-60/12SS	Wainwright Instruments	2	01/06/2022	Annual
Band Reject Filter	WRCJV5100/5850-40/50- 8EEK	Wainwright Instruments	1	02/08/2022	Annual
High Pass Filter	WHK3.0/18G-10EF	Wainwright Instruments	8	02/03/2022	Annual
High Pass Filter	WHKX8-6090-7000-18000- 40SS	Wainwright Instruments	25	02/03/2022	Annual
Attenuator (3 dB)	18B-03	Api tech.	1	02/03/2022	Annual
Attenuator(10 dB)	8493C-10	Agilent	08285	02/03/2022	Annual
Power Amplifier	CBLU1183540	CERNEX	22964	02/03/2022	Annual
Power Amplifier	CBL06185030	CERNEX	22965	02/03/2022	Annual
Power Amplifier	CBL18265035	CERNEX	22966	12/04/2021	Annual
Power Amplifier	CBL26405040	CERNEX	25956	03/23/2022	Annual

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
3. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5 (Version : 2017).

12. ANNEX A_ TEST SETUP PHOTO

Please refer to test setup photo file no. as follows;

No.	Description
1	HCT-RF-2111-FC034-P