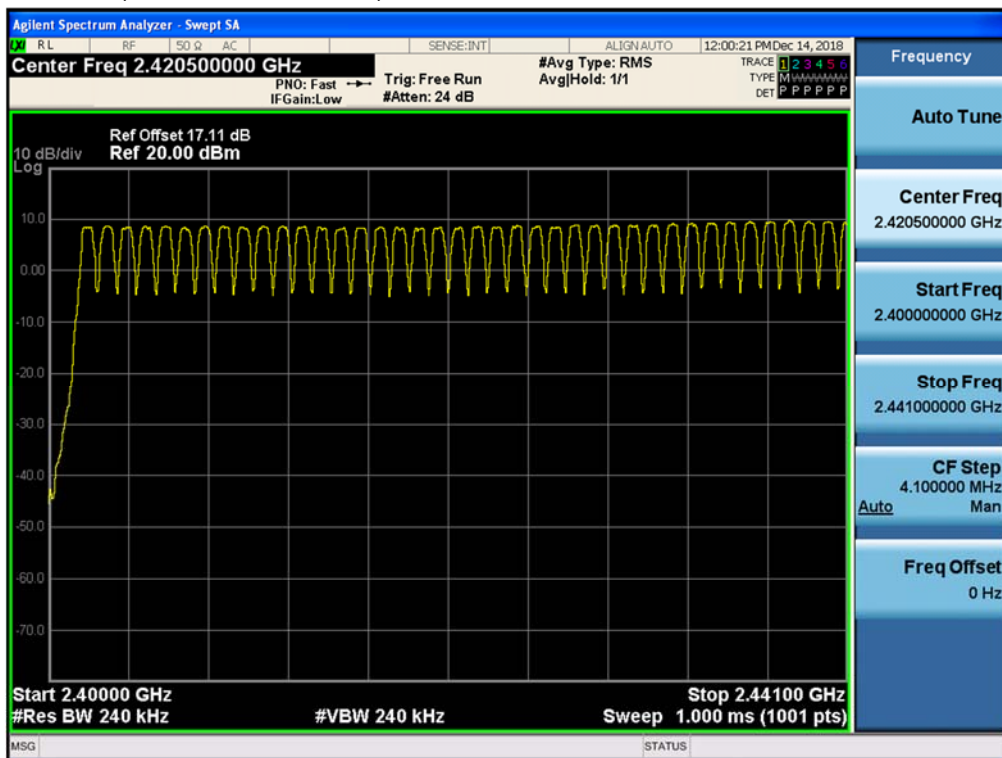


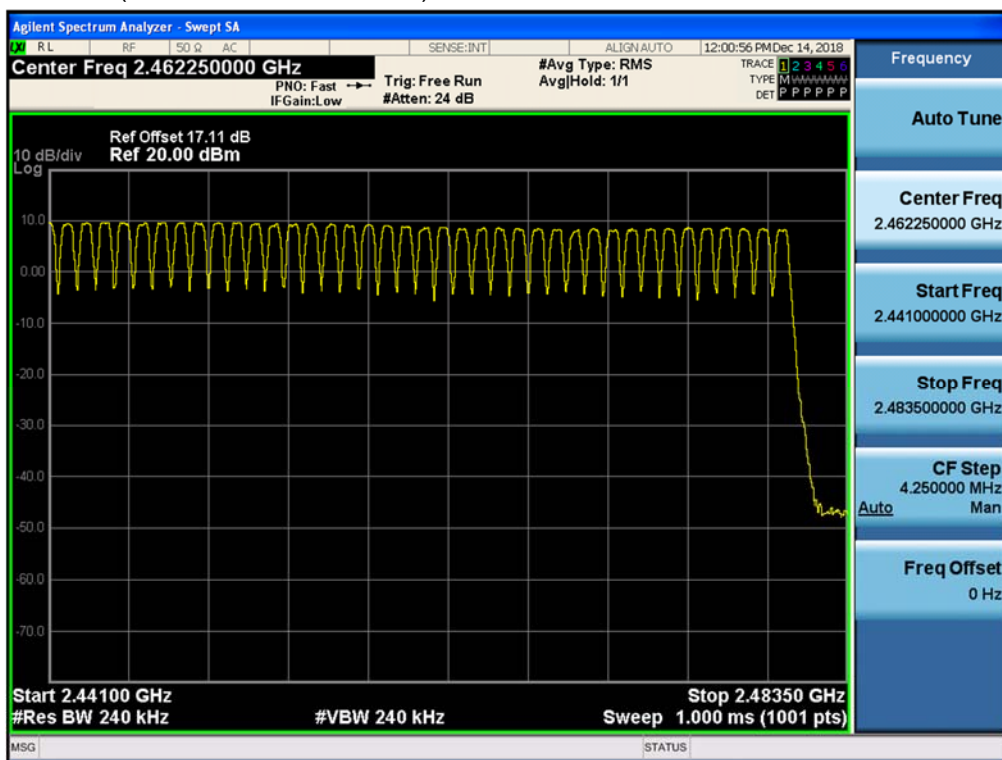
Test Plots (GFSK)

Number of Channels (2.4 GHz - 2.441 GHz)



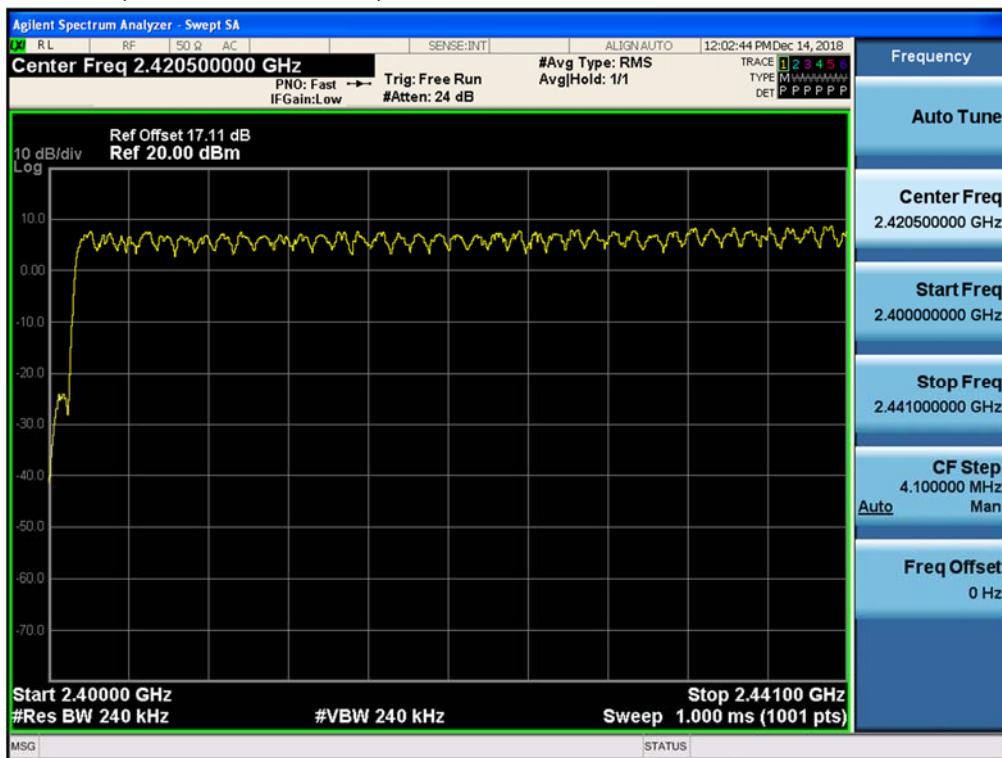
Test Plots (GFSK)

Number of Channels (2.441 GHz - 2.4835 GHz)



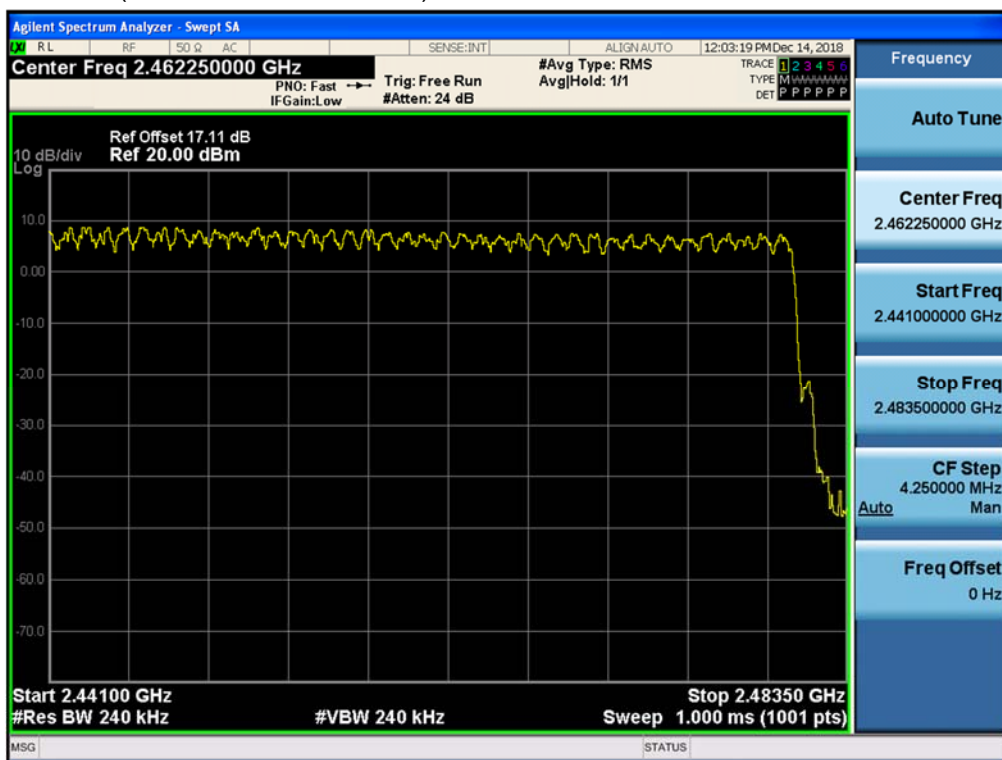
Test Plots (8DPSK)

Number of Channels (2.4 GHz - 2.441 GHz)



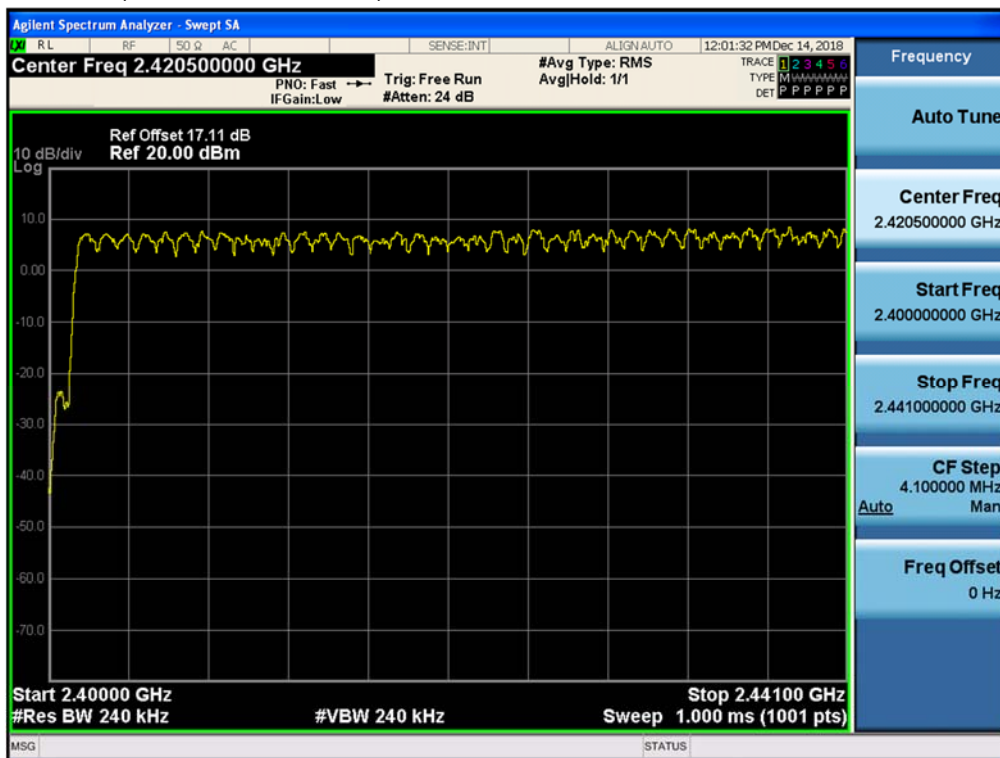
Test Plots (8DPSK)

Number of Channels (2.441 GHz - 2.4835 GHz)

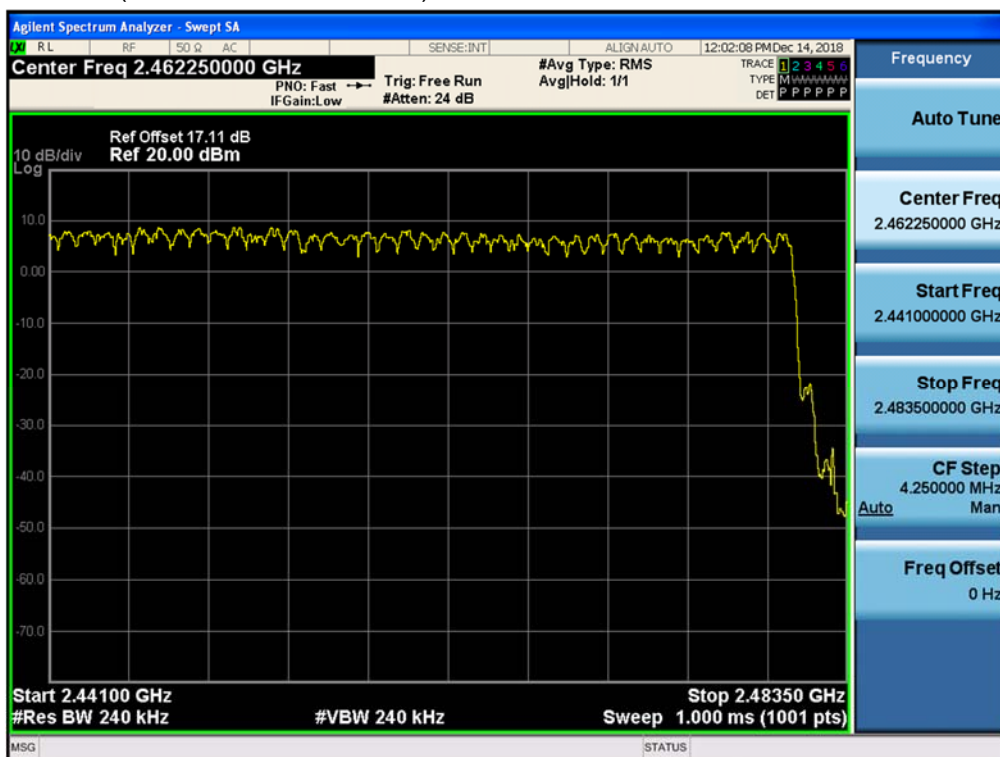


Test Plots ($\pi/4$ DQPSK)

Number of Channels (2.4 GHz - 2.441 GHz)


Test Plots ($\pi/4$ DQPSK)

Number of Channels (2.441 GHz - 2.4835 GHz)



10.5 TIME OF OCCUPANCY (DWELL TIME)

	Channel	GFSK	8DPSK	$\pi/4$ DQPSK
Pulse Time (ms)	Low	2.885	2.895	2.890
	Mid	2.885	2.890	2.890
	High	2.890	2.895	2.890

Non-AFH Mode

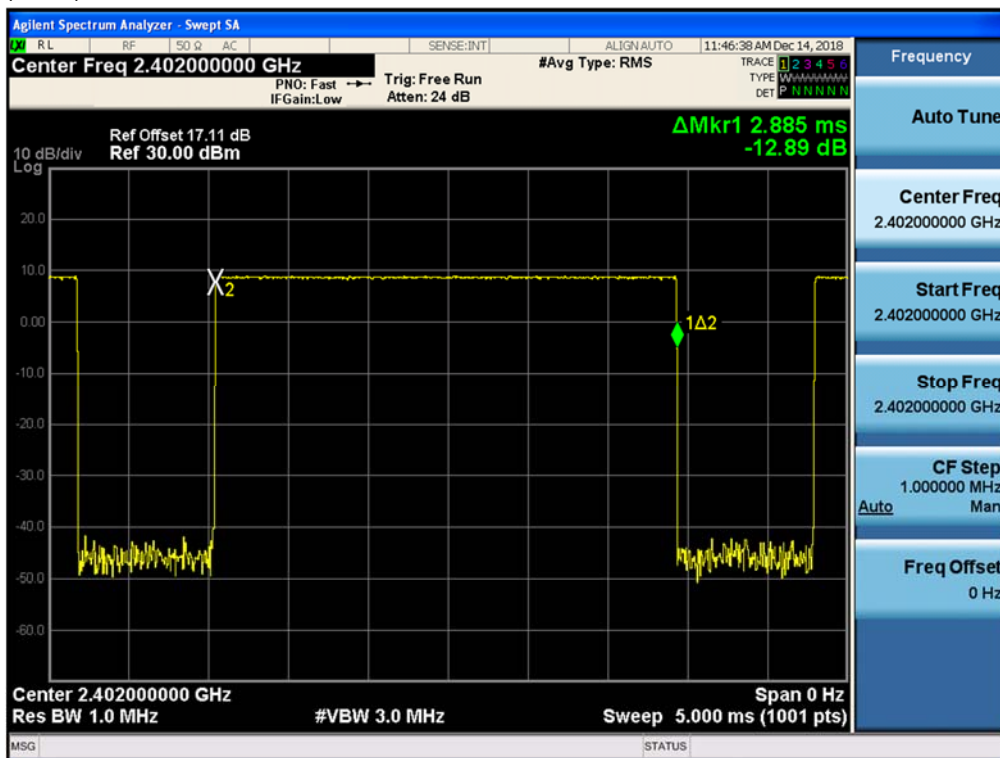
	Channel	GFSK	8DPSK	$\pi/4$ DQPSK	Period Time (s)	Limit (ms)
Total of Dwell (ms)	Low	307.73	308.80	308.27	31.6	400
	Mid	307.73	308.27	308.27	31.6	
	High	308.27	308.80	308.27	31.6	

AFH Mode

	Channel	GFSK	8DPSK	$\pi/4$ DQPSK	Period Time (s)	Limit (ms)
Total of Dwell (ms)	Low	153.87	154.40	154.13	8.0	400
	Mid	153.87	154.13	154.13	8.0	
	High	154.13	154.40	154.13	8.0	

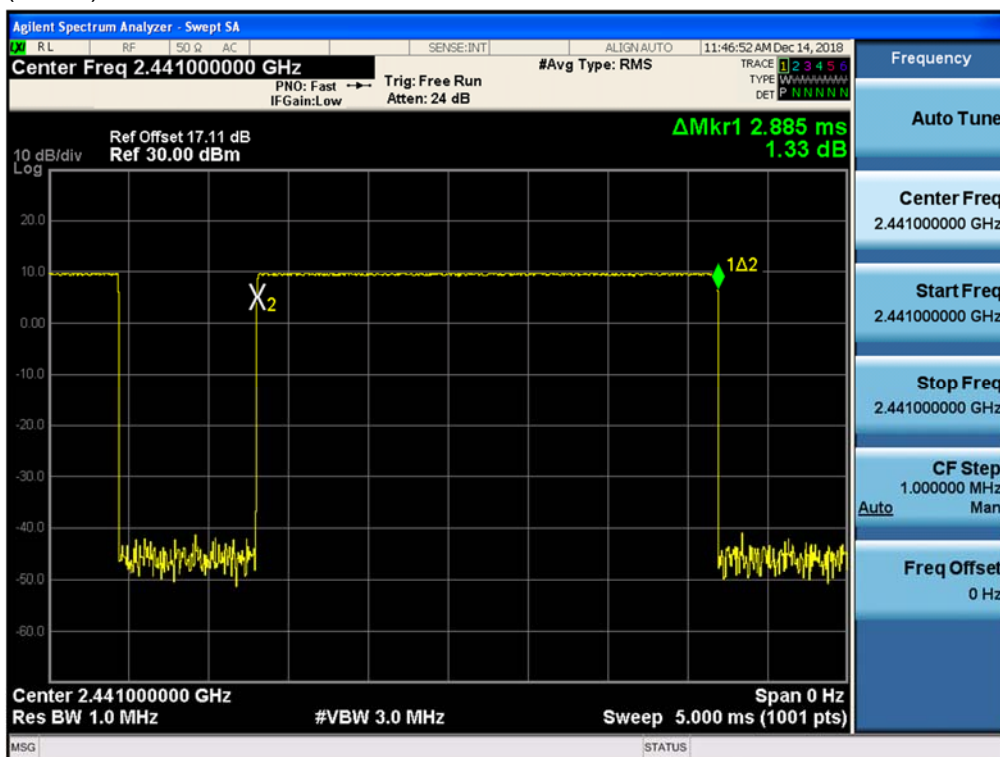
Test Plots (GFSK)

Dwell Time (CH.0)



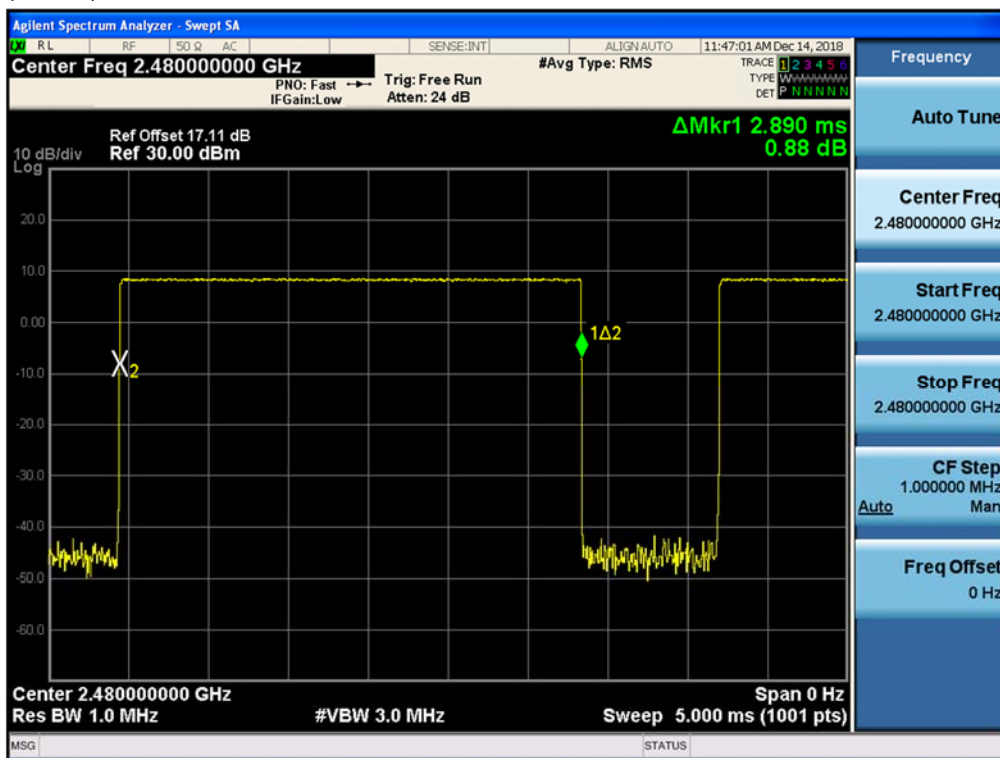
Test Plots (GFSK)

Dwell Time (CH.39)



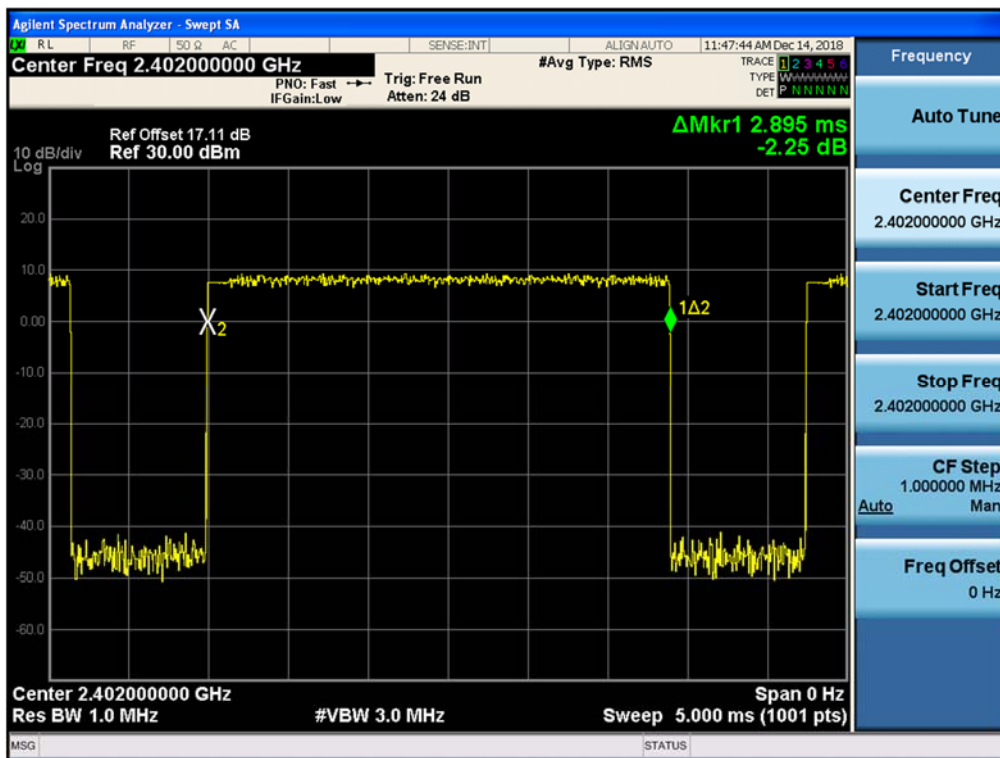
Test Plots (GFSK)

Dwell Time (CH.78)



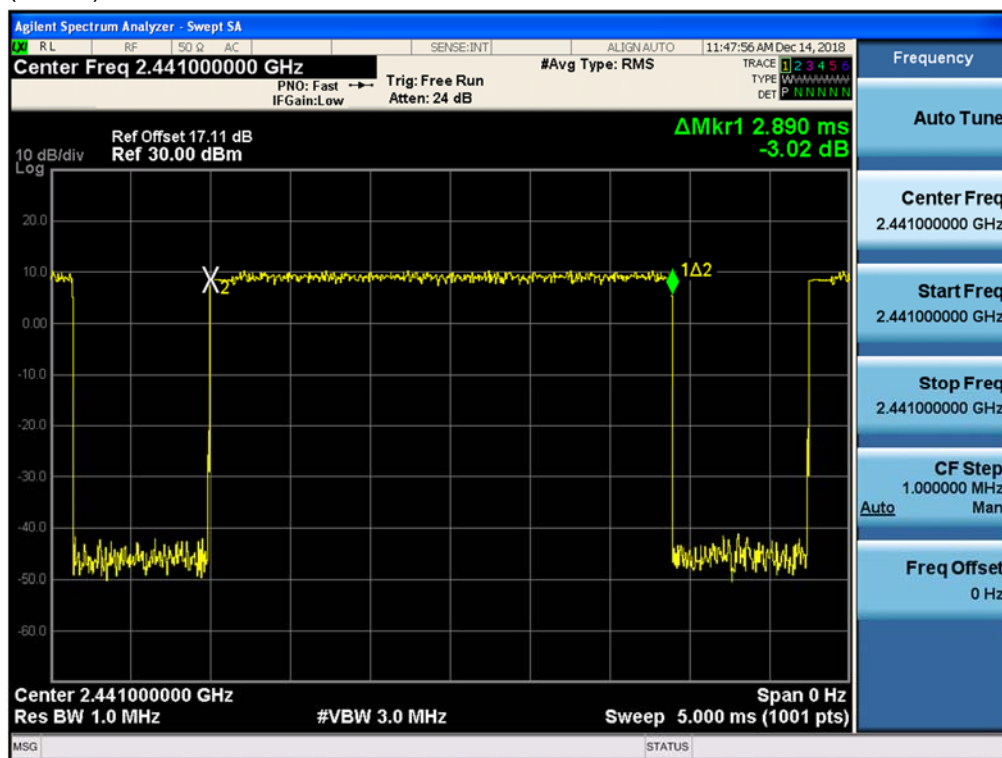
Test Plots (8DPSK)

Dwell Time (CH.0)



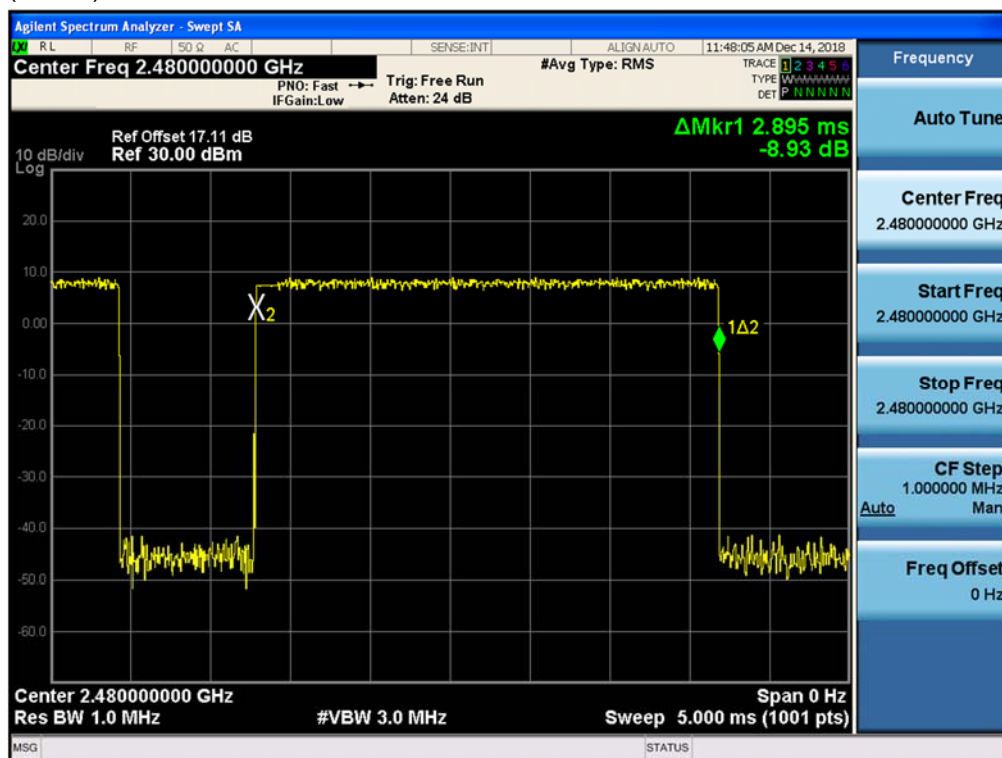
Test Plots (8DPSK)

Dwell Time (CH.39)



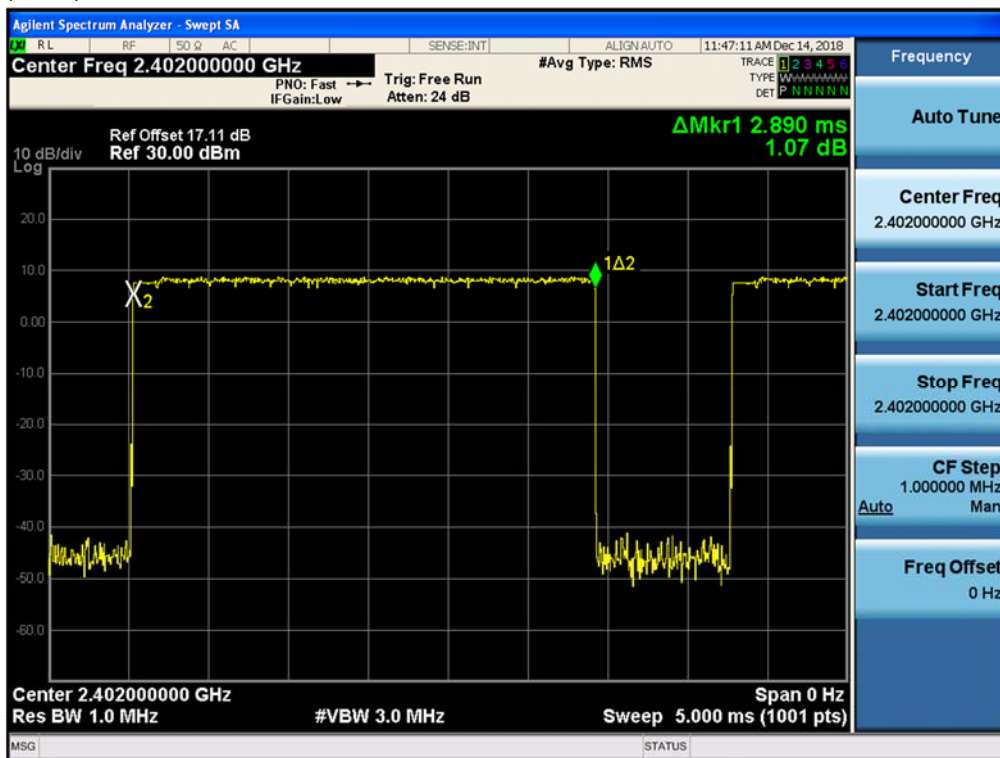
Test Plots (8DPSK)

Dwell Time (CH.78)



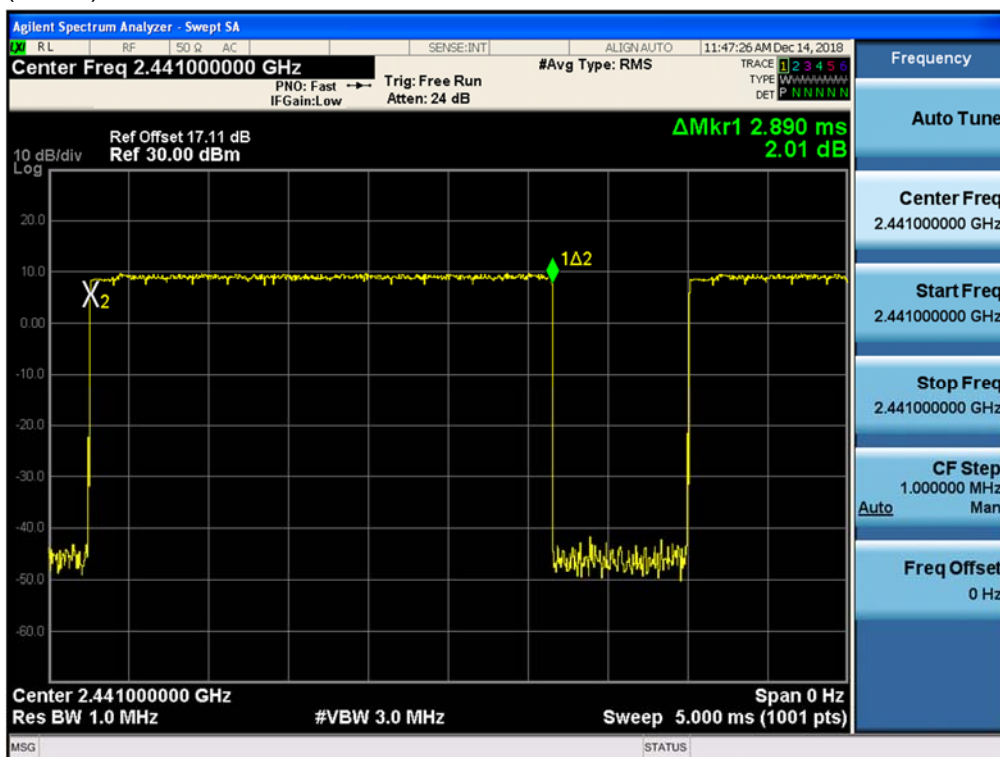
Test Plots ($\pi/4$ DQPSK)

Dwell Time (CH.0)



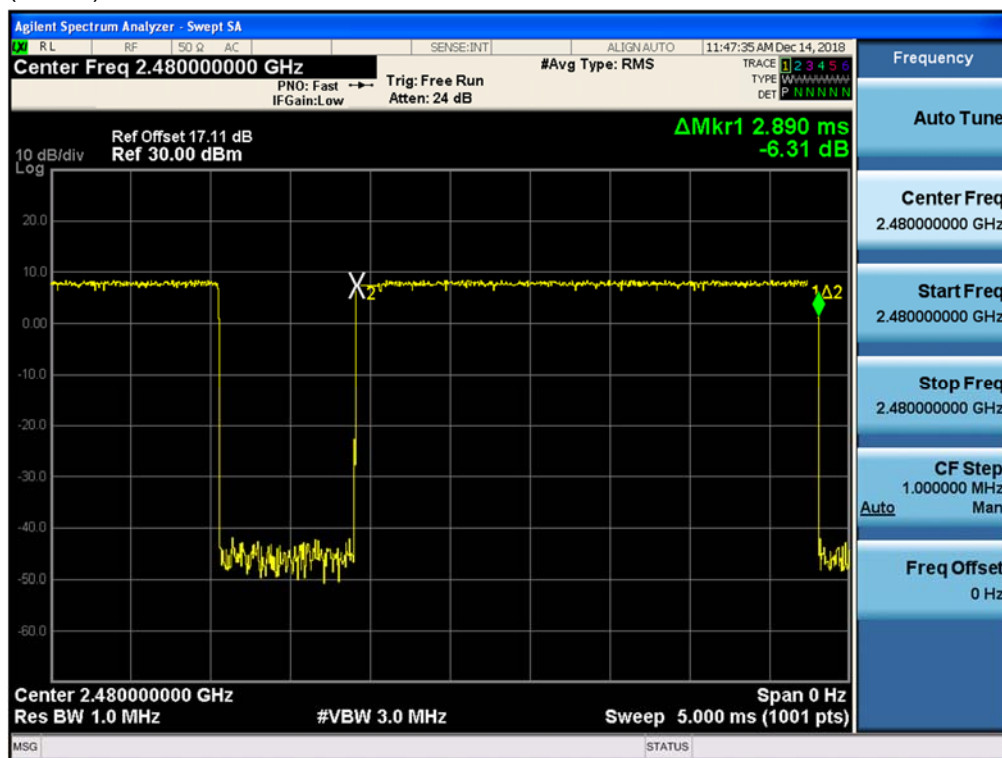
Test Plots ($\pi/4$ DQPSK)

Dwell Time (CH.39)



Test Plots ($\pi/4$ DQPSK)

Dwell Time (CH.78)



10.6 SPURIOUS EMISSIONS

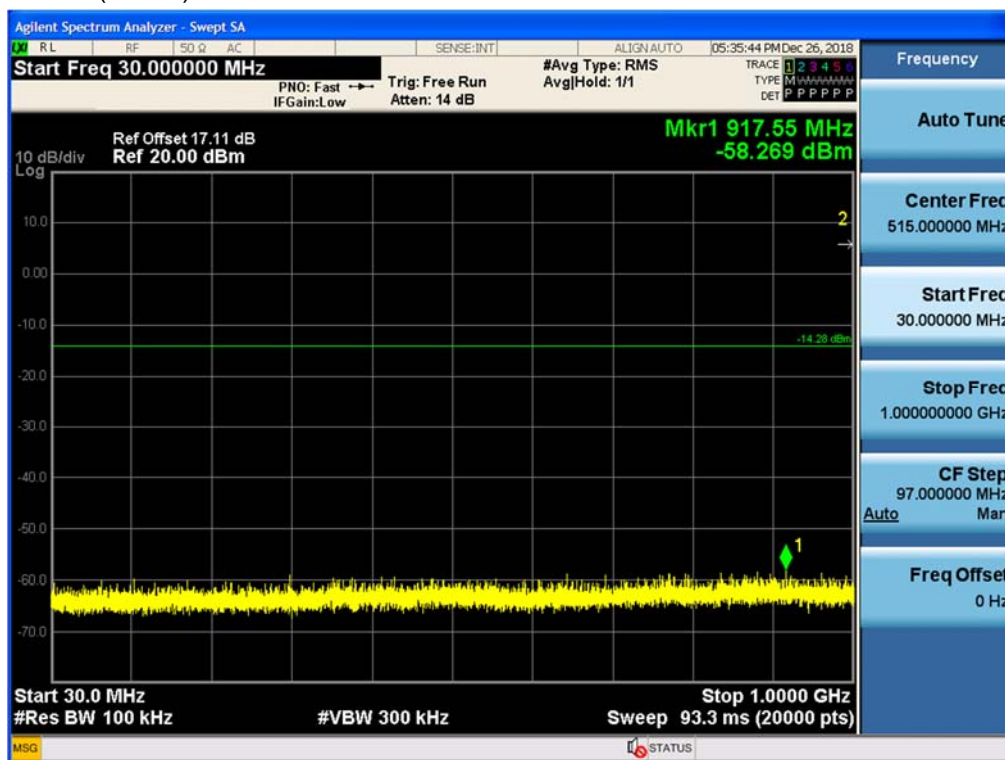
10.6.1 CONDUCTED SPURIOUS EMISSIONS

Test Result : please refer to the plot below.

In order to simplify the report, attached plots were only the worst case channel and data rate.

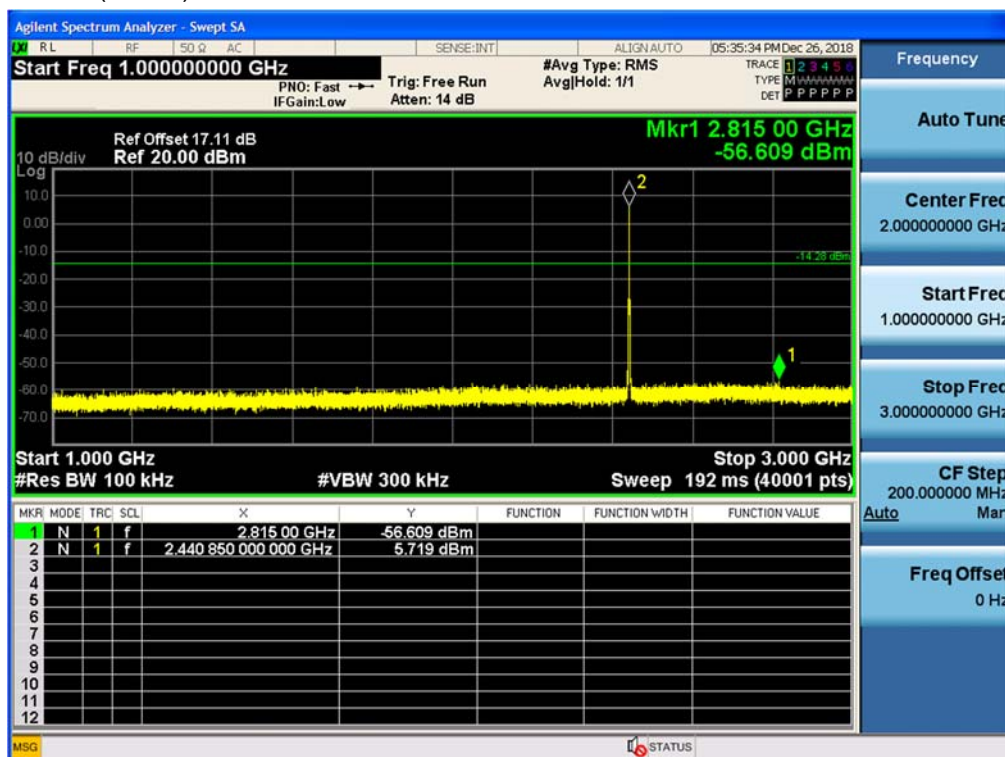
Test Plots (8DPSK)- 30 MHz - 1 GHz

Spurious Emission (CH.39)



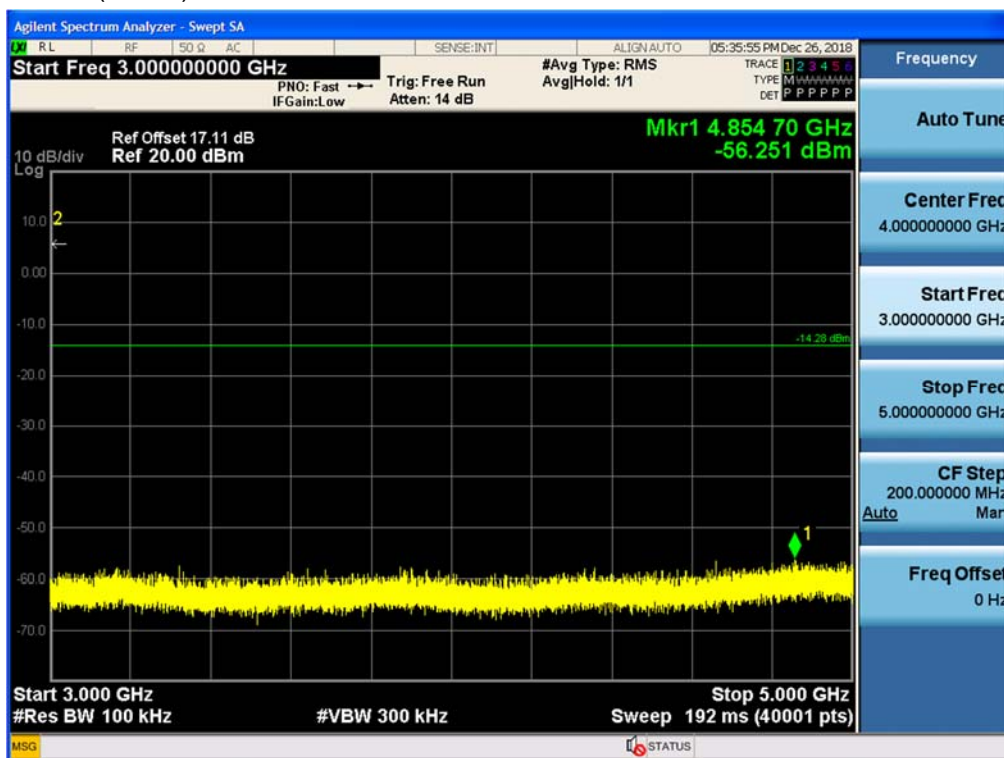
Test Plots (8DPSK)- 1 GHz – 3 GHz

Spurious Emission (CH.39)



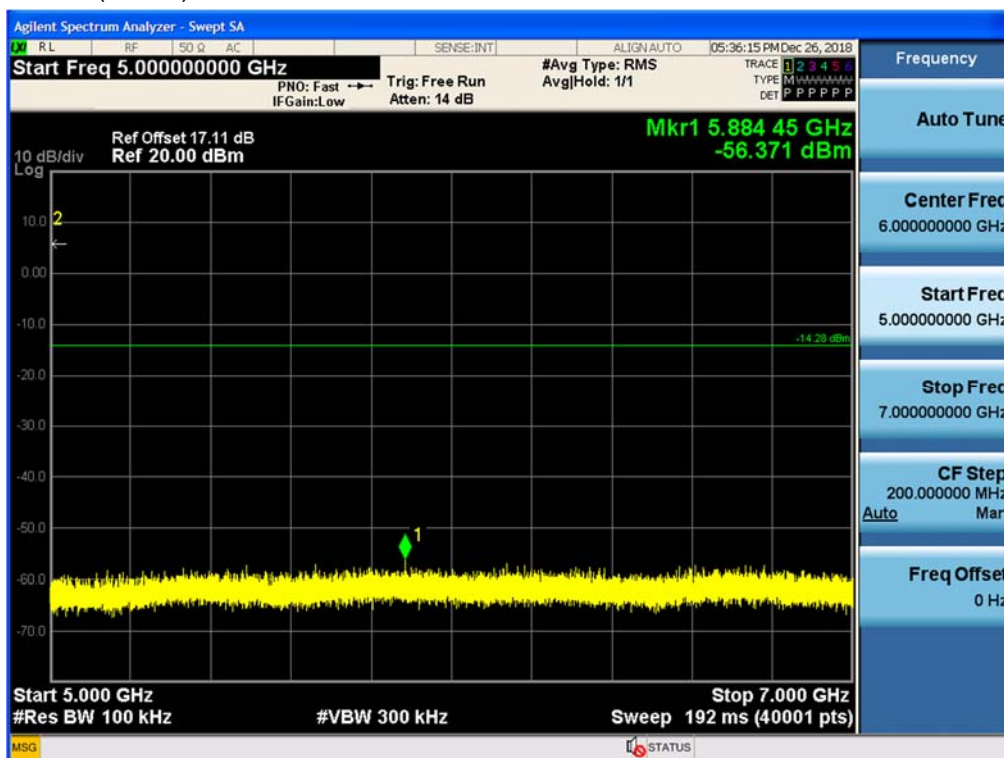
Test Plots(8DPSK)- 3 GHz - 5 GHz

Spurious Emission (CH.39)

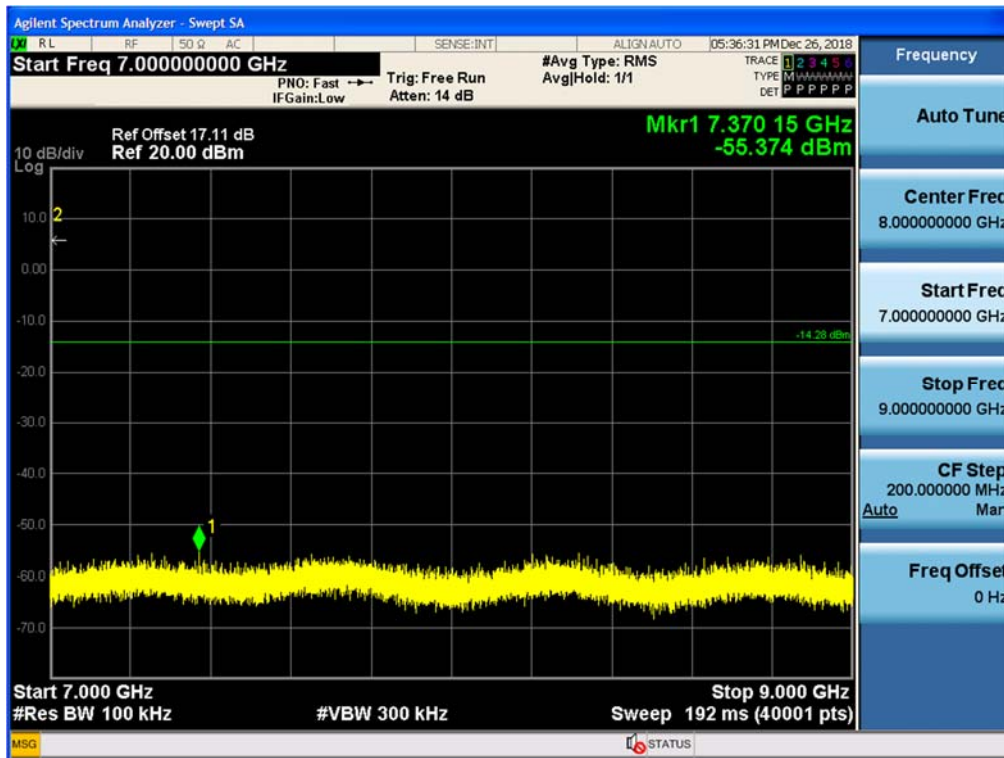


Test Plots (8DPSK)- 5 GHz - 7 GHz

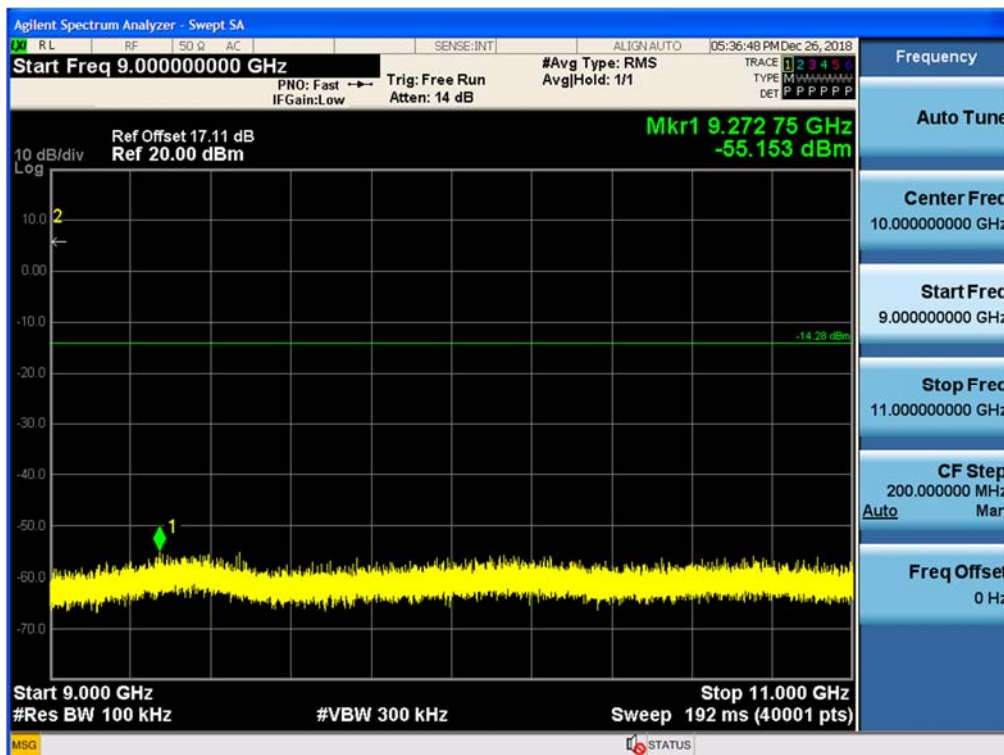
Spurious Emission (CH.39)



Test Plots(8DPSK)- 7 GHz - 9 GHz
Spurious Emission (CH.39)

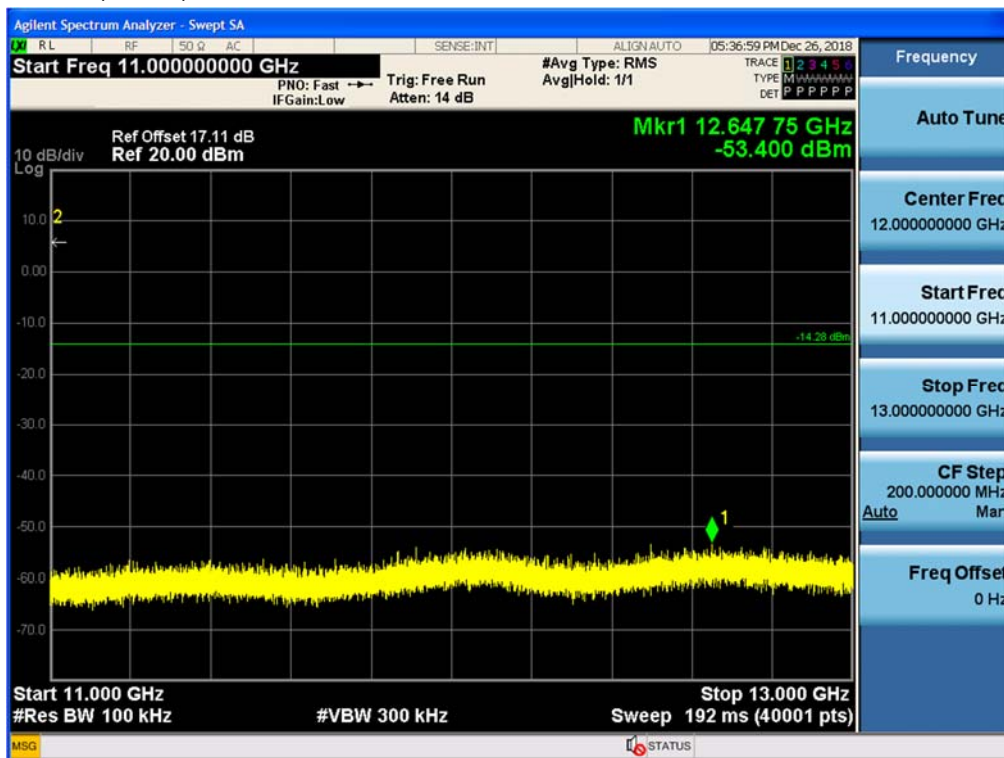


Test Plots(8DPSK)- 9 GHz - 11 GHz
Spurious Emission (CH.39)



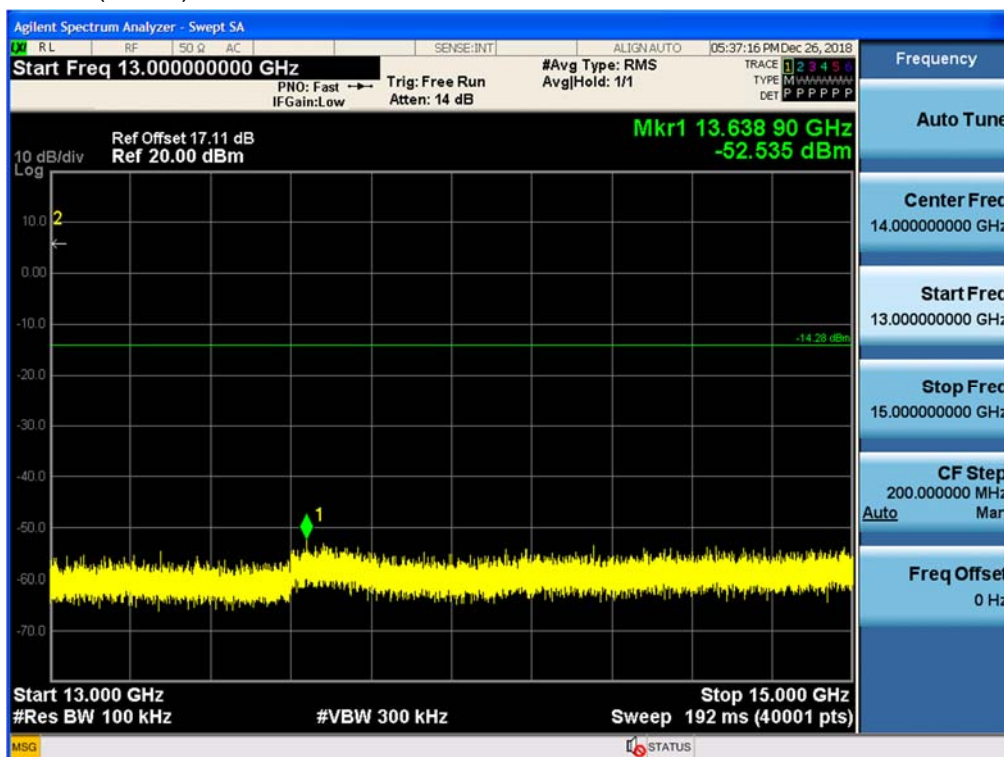
Test Plots(8DPSK) 11 GHz - 13 GHz

Spurious Emission (CH.39)



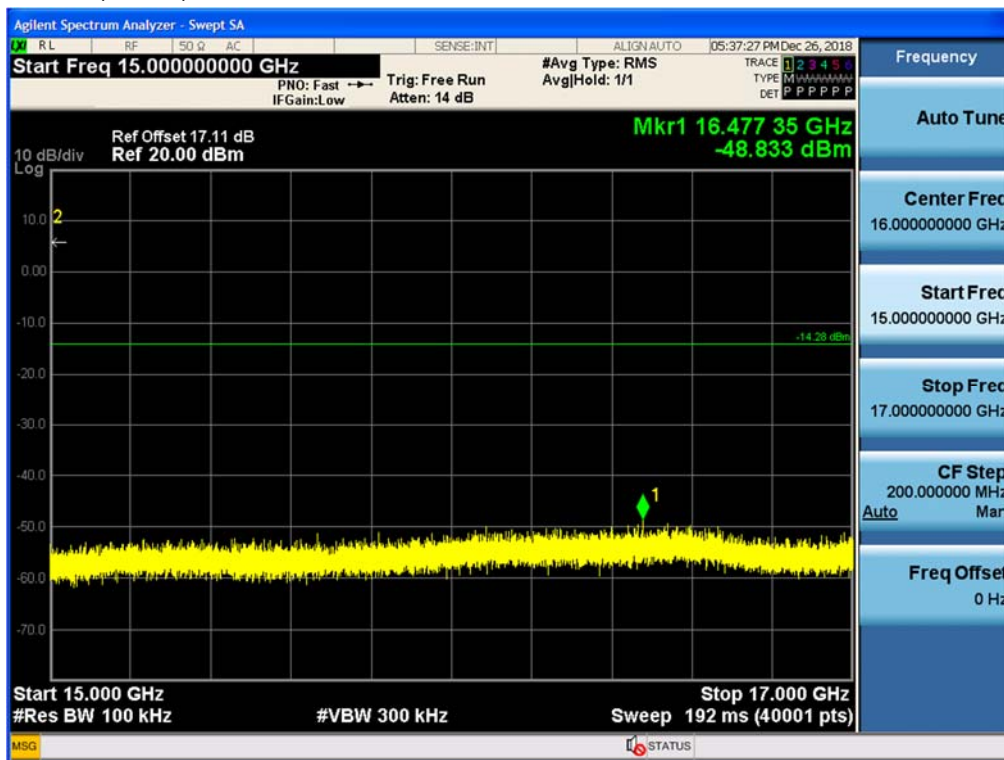
Test Plots (8DPSK)- 13 GHz – 15 GHz

Spurious Emission (CH.39)



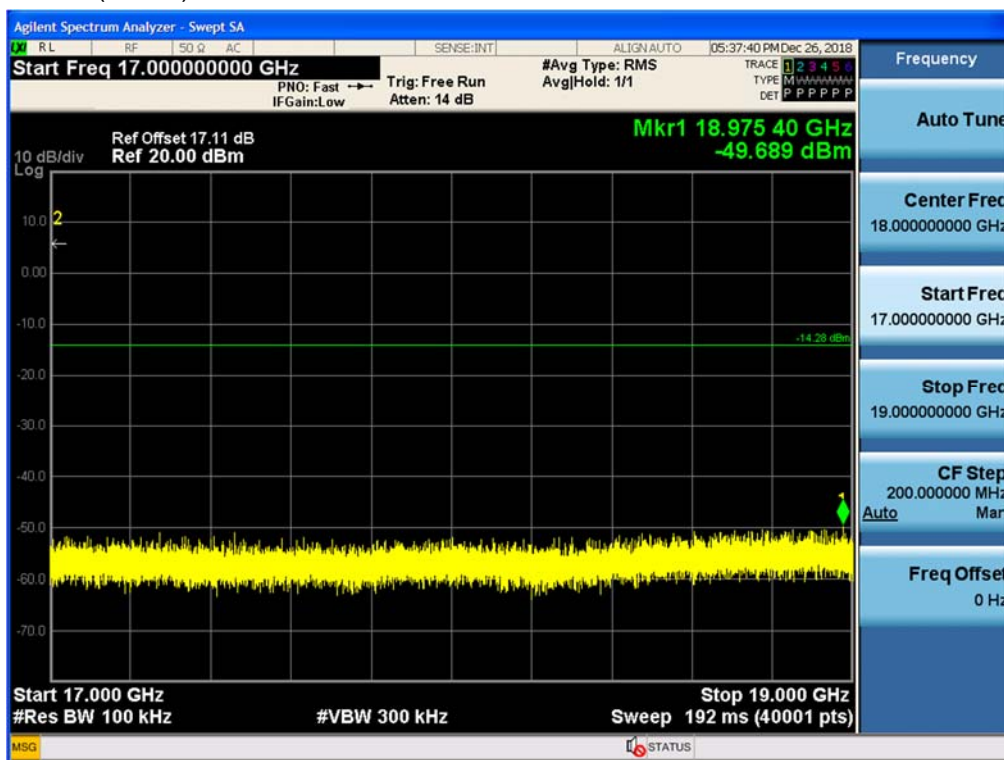
Test Plots(8DPSK)- 15 GHz - 17 GHz

Spurious Emission (CH.39)

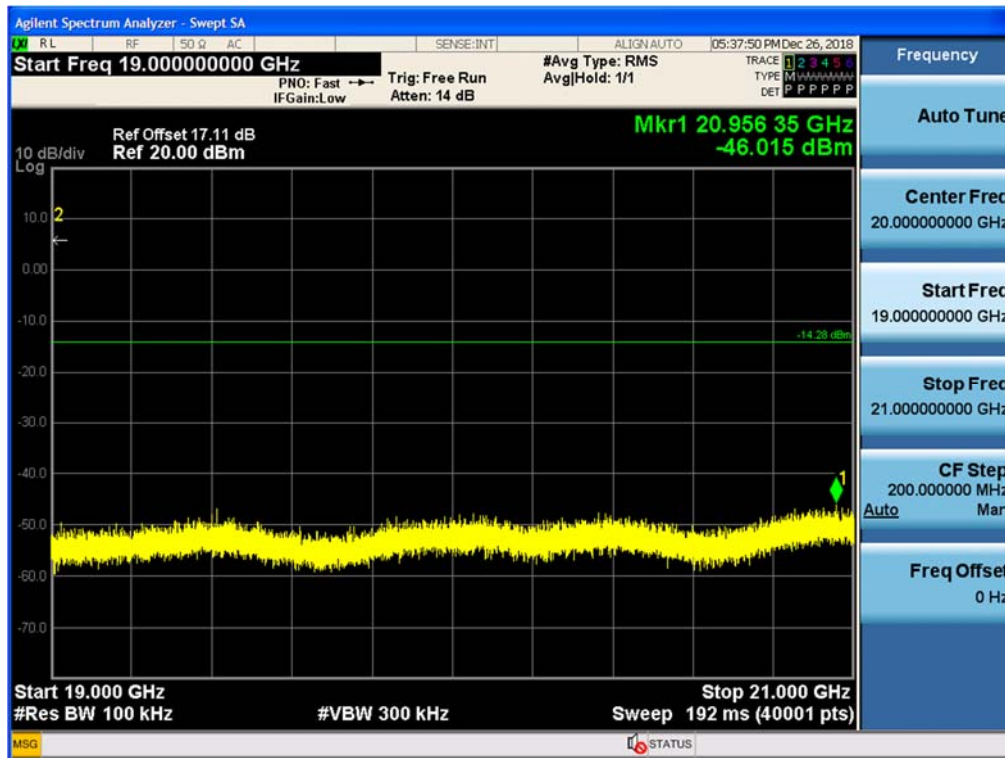


Test Plots(8DPSK)- 17 GHz - 19 GHz

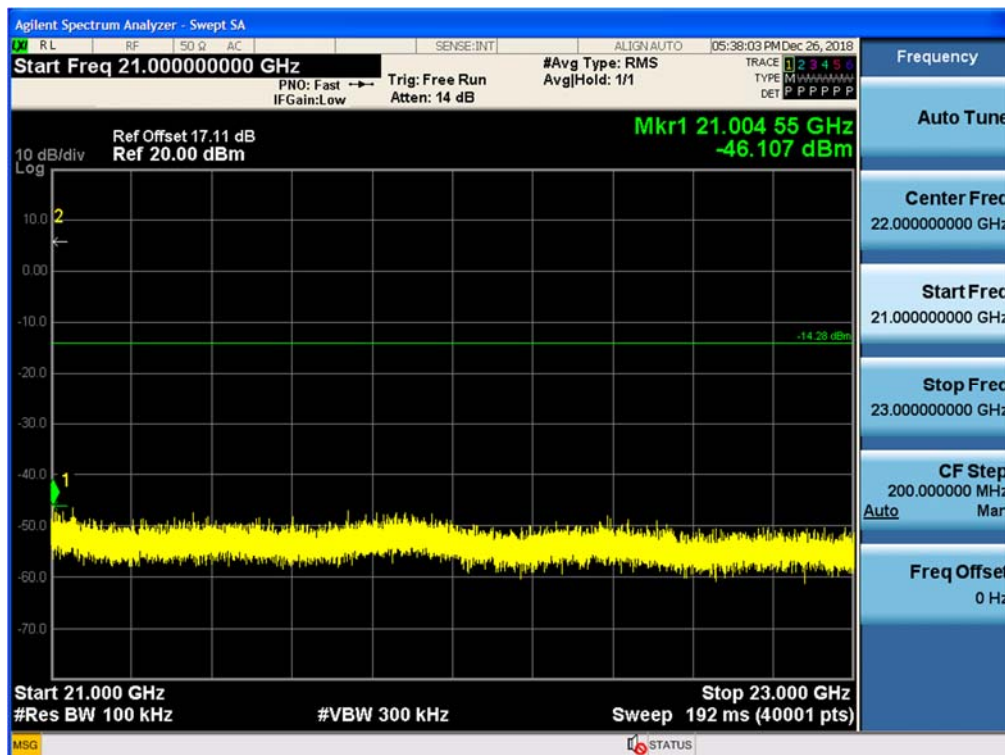
Spurious Emission (CH.39)



Test Plots (8DPSK)- 19 GHz - 21 GHz
Spurious Emission (CH.39)

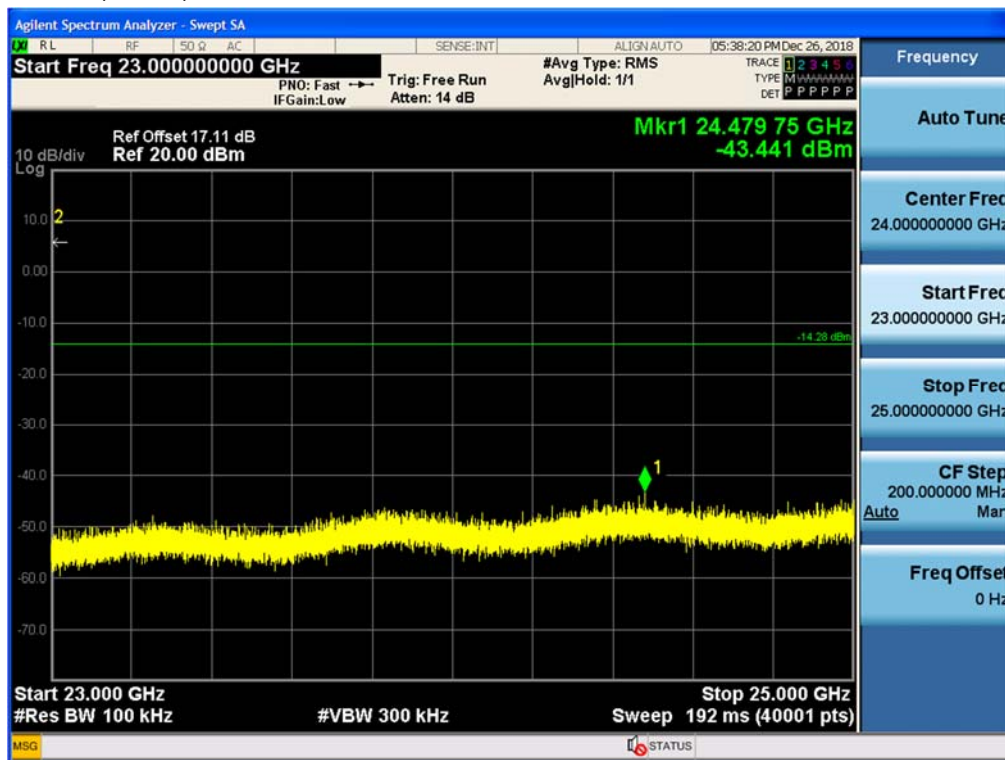


Test Plots (8DPSK)- 21 GHz - 23 GHz
Spurious Emission (CH.39)



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

Spurious Emission (CH.39)



10.6.2 RADIATED SPURIOUS EMISSIONS

Frequency Range : 9 kHz – 30MHz

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dBuV/m	dBm/m	dBm	(H/V)	dBuV/m	dBuV/m	dB
No Critical peaks found							

Note:

1. The reading 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 = $40 \cdot \log(\text{specific distance} / \text{test distance})$ (dB)
3. Limit line = specific Limits (dBuV) + Distance extrapolation factor
4. Radiated test is performed with hopping off.
5. The test results for below 30 MHz is correlated to an open site.
The result on OATS is about 2 dB higher than semi-anechoic chamber(10 m chamber)

Frequency Range : Below 1 GHz

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dBuV/m	dBm/m	dBm	(H/V)	dBuV/m	dBuV/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

Operation Mode: CH Low(GFSK)

Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4804	51.48	-0.42	V	51.06	73.98	22.92	PK
4804	37.46	-0.42	V	37.04	53.98	16.94	AV
7206	52.49	5.40	V	57.89	73.98	16.10	PK
7206	40.58	5.40	V	45.98	53.98	8.01	AV
4804	51.83	-0.42	H	51.41	73.98	22.57	PK
4804	37.80	-0.42	H	37.38	53.98	16.60	AV
7206	52.96	5.40	H	58.36	73.98	15.63	PK
7206	40.91	5.40	H	46.31	53.98	7.68	AV

Operation Mode: CH Low(8DPSK)

Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4804	51.44	-0.42	V	51.02	73.98	22.96	PK
4804	37.56	-0.42	V	37.14	53.98	16.84	AV
7206	51.19	5.40	V	56.59	73.98	17.40	PK
7206	38.76	5.40	V	44.16	53.98	9.83	AV
4804	51.69	-0.42	H	51.27	73.98	22.71	PK
4804	37.71	-0.42	H	37.29	53.98	16.69	AV
7206	51.37	5.40	H	56.77	73.98	17.22	PK
7206	39.00	5.40	H	44.40	53.98	9.59	AV

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

Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4804	51.06	-0.42	V	50.64	73.98	23.34	PK
4804	37.56	-0.42	V	37.14	53.98	16.84	AV
7206	51.49	5.40	V	56.89	73.98	17.10	PK
7206	39.11	5.40	V	44.51	53.98	9.48	AV
4804	51.12	-0.42	H	50.70	73.98	23.28	PK
4804	37.79	-0.42	H	37.37	53.98	16.61	AV
7206	51.59	5.40	H	56.99	73.98	17.00	PK
7206	39.13	5.40	H	44.53	53.98	9.45	AV

Operation Mode: CH Mid(GFSK)

Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4882	51.95	-0.27	V	51.69	73.98	22.30	PK
4882	37.61	-0.27	V	37.35	53.98	16.64	AV
7323	52.16	5.42	V	57.58	73.98	16.40	PK
7323	41.59	5.42	V	47.01	53.98	6.97	AV
4882	52.01	-0.27	H	51.75	73.98	22.24	PK
4882	37.68	-0.27	H	37.42	53.98	16.57	AV
7323	52.29	5.42	H	57.71	73.98	16.27	PK
7323	41.71	5.42	H	47.13	53.98	6.85	AV

Operation Mode: CH Mid(8DPSK)

Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4882	51.06	-0.27	V	50.795	73.98	23.19	PK
4882	37.60	-0.27	V	37.335	53.98	16.65	AV
7323	51.87	5.42	V	57.29	73.98	16.69	PK
7323	39.26	5.42	V	44.68	53.98	9.30	AV
4882	51.13	-0.27	H	50.865	73.98	23.12	PK
4882	37.68	-0.27	H	37.415	53.98	16.57	AV
7323	52.21	5.42	H	57.63	73.98	16.35	PK
7323	39.60	5.42	H	45.02	53.98	8.96	AV

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

Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4882	51.23	-0.27	V	50.965	73.98	23.02	PK
4882	37.59	-0.27	V	37.325	53.98	16.66	AV
7323	52.16	5.42	V	57.58	73.98	16.40	PK
7323	39.21	5.42	V	44.63	53.98	9.35	AV
4882	51.40	-0.27	H	51.135	73.98	22.85	PK
4882	37.65	-0.27	H	37.385	53.98	16.60	AV
7323	52.38	5.42	H	57.8	73.98	16.18	PK
7323	39.60	5.42	H	45.02	53.98	8.96	AV

Operation Mode: CH High(GFSK)

Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4960	52.23	-0.67	V	51.56	73.98	22.42	PK
4960	37.43	-0.67	V	36.76	53.98	17.22	AV
7440	51.26	5.70	V	56.96	73.98	17.02	PK
7440	39.40	5.70	V	45.10	53.98	8.88	AV
4960	52.43	-0.67	H	51.76	73.98	22.22	PK
4960	37.51	-0.67	H	36.84	53.98	17.14	AV
7440	51.32	5.70	H	57.02	73.98	16.96	PK
7440	39.70	5.70	H	45.40	53.98	8.58	AV

Operation Mode: CH High(8DPSK)

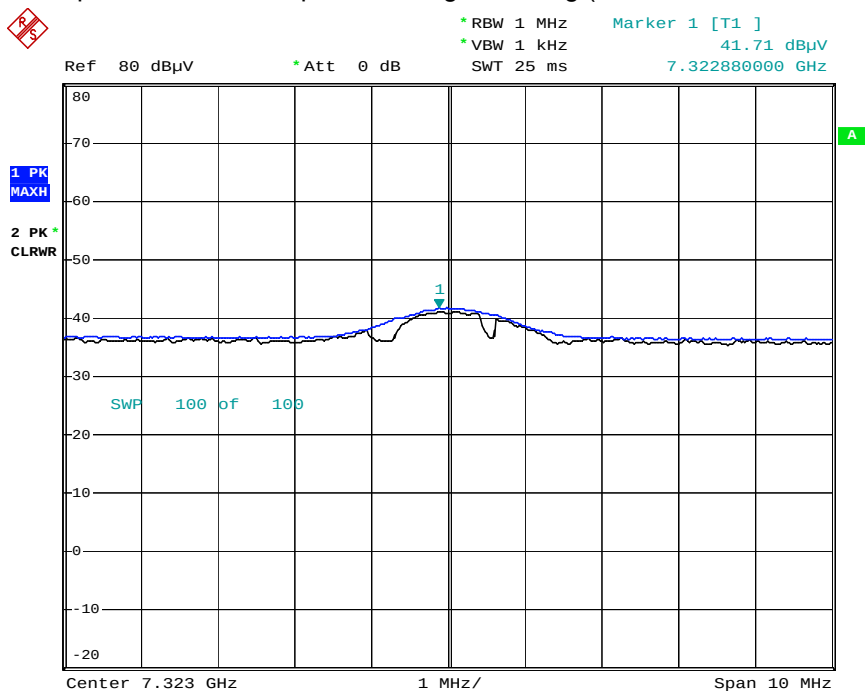
Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4960	50.86	-0.67	V	50.19	73.98	23.79	PK
4960	37.44	-0.67	V	36.77	53.98	17.21	AV
7440	50.26	5.70	V	55.96	73.98	18.02	PK
7440	38.16	5.70	V	43.86	53.98	10.12	AV
4960	50.97	-0.67	H	50.30	73.98	23.68	PK
4960	37.59	-0.67	H	36.92	53.98	17.06	AV
7440	50.43	5.70	H	56.13	73.98	17.85	PK
7440	38.22	5.70	H	43.92	53.98	10.06	AV

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

Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4960	52.29	-0.67	V	51.62	73.98	22.36	PK
4960	37.46	-0.67	V	36.79	53.98	17.19	AV
7440	50.23	5.70	V	55.93	73.98	18.05	PK
7440	38.06	5.70	V	43.76	53.98	10.22	AV
4960	52.47	-0.67	H	51.80	73.98	22.18	PK
4960	37.61	-0.67	H	36.94	53.98	17.04	AV
7440	50.63	5.70	H	56.33	73.98	17.65	PK
7440	38.13	5.70	H	43.83	53.98	10.15	AV

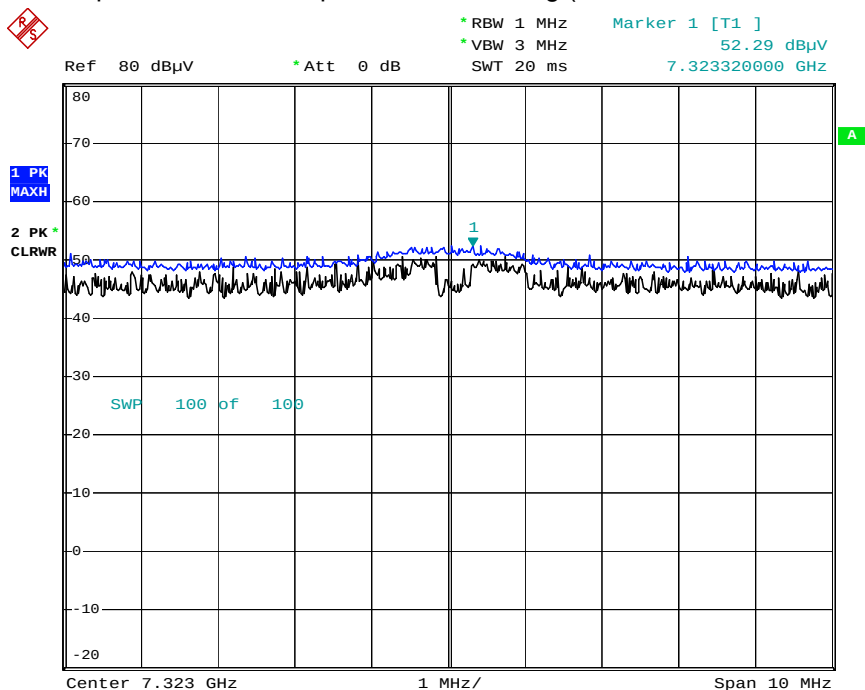
RESULT PLOTS (Worst case : Z-H)

Radiated Spurious Emissions plot – Average Reading (GFSK, Ch.39 3rd Harmonic)



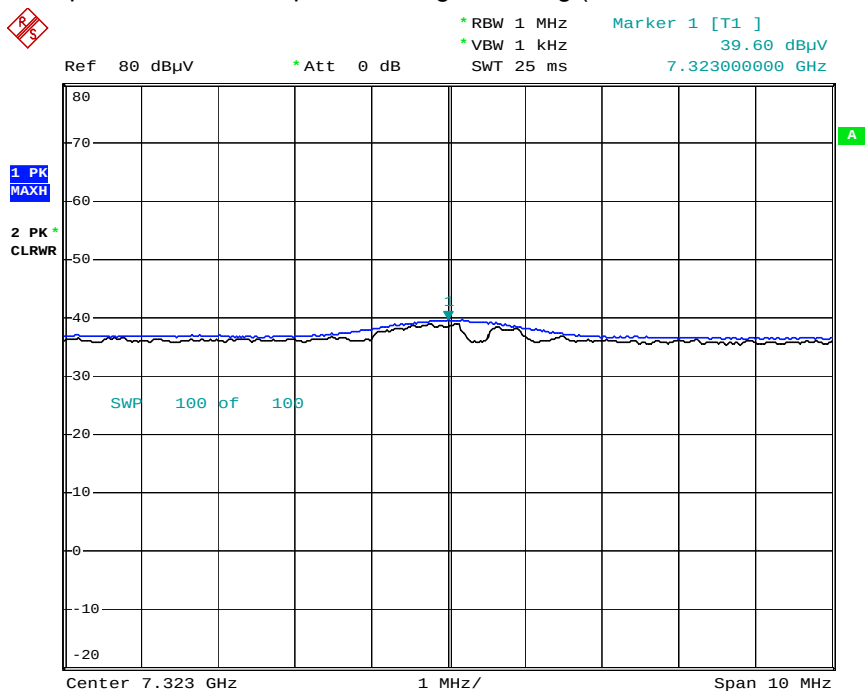
Date: 17.DEC.2018 03:29:52

Radiated Spurious Emissions plot – Peak Reading (GFSK, Ch.39 3rd Harmonic)



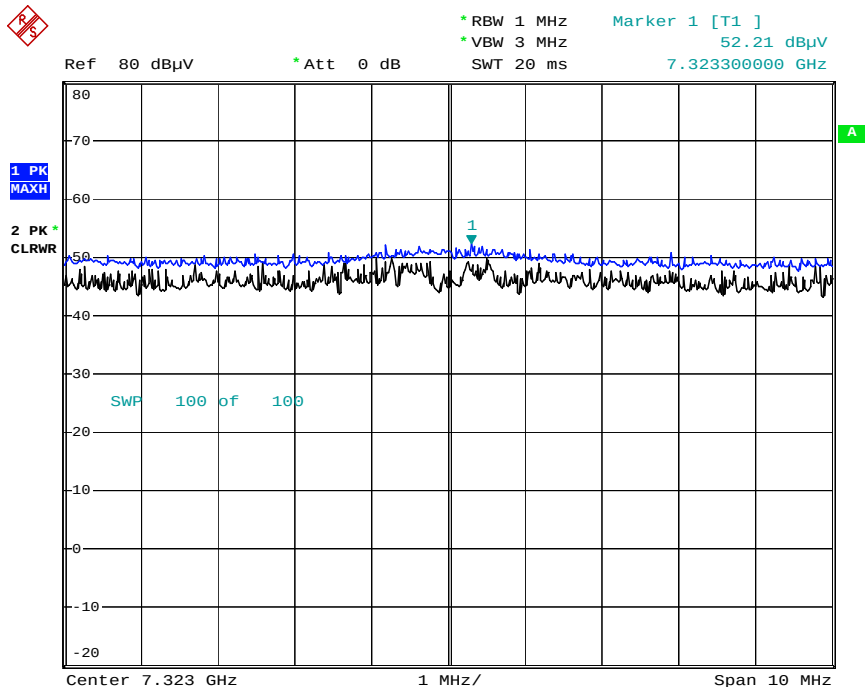
Date: 17.DEC.2018 03:30:31

Radiated Spurious Emissions plot – Average Reading (8DPSK, Ch.39 3rd Harmonic)



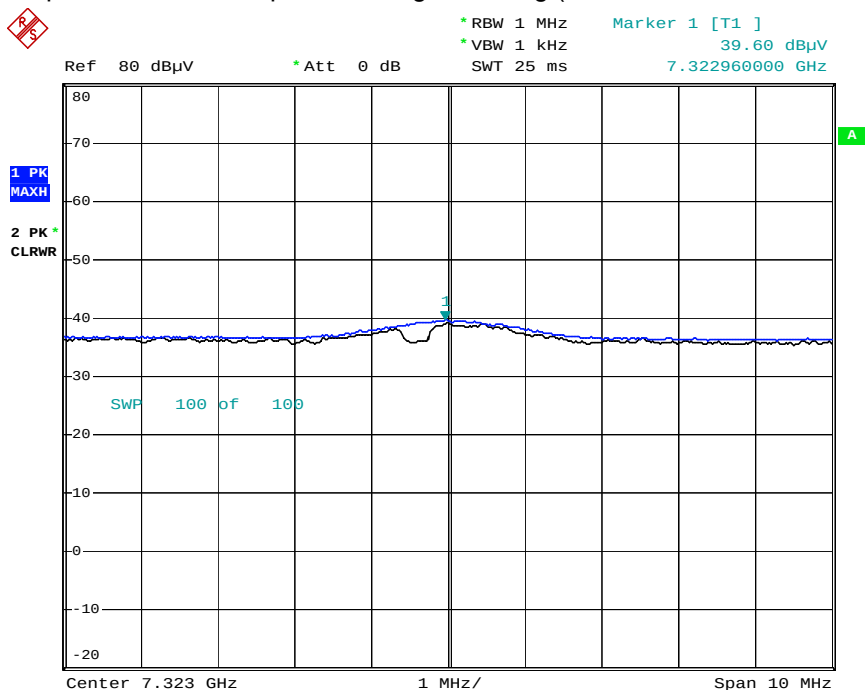
Date: 17.DEC.2018 03:34:25

Radiated Spurious Emissions plot – Peak Reading (8DPSK, Ch.39 3rd Harmonic)



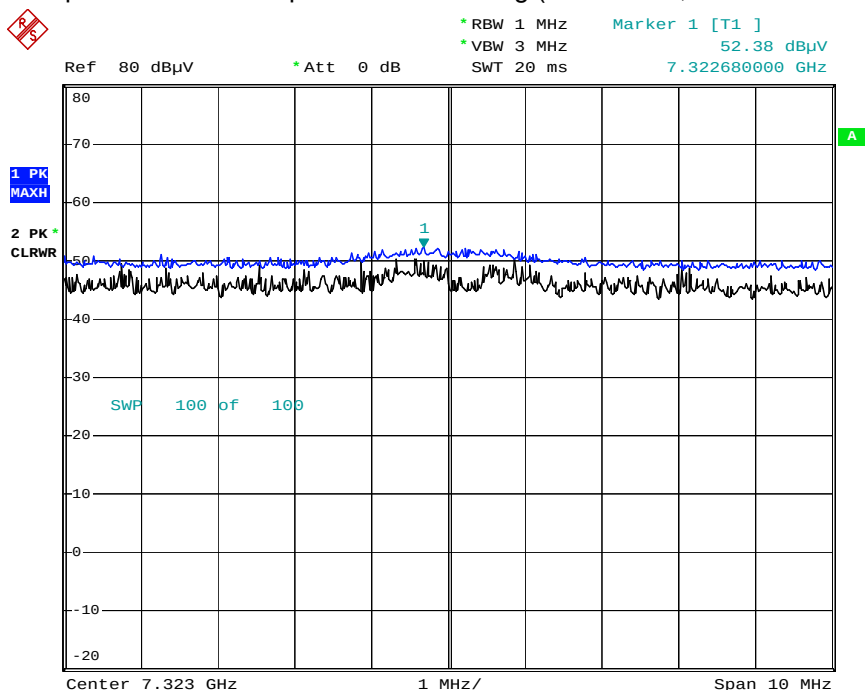
Date: 17.DEC.2018 03:35:02

Radiated Spurious Emissions plot – Average Reading ($\pi/4$ DQPSK, Ch.39 3rd Harmonic)



Date: 17.DEC.2018 03:31:32

Radiated Spurious Emissions plot – Peak Reading ($\pi/4$ DQPSK, Ch.39 3rd Harmonic)



Date: 17.DEC.2018 03:32:25

Note:

Plot of worst case are only reported.

10.6.3 RADIATED RESTRICTED BAND EDGES

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

Frequency [MHz]	Reading [dBuV]	A.F + C.L + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	18.44	34.42	H	52.86	73.98	21.12	PK
2390.0	9.60	34.42	H	44.02	53.98	9.96	AV
2390.0	18.46	34.42	V	52.88	73.98	21.10	PK
2390.0	9.64	34.42	V	44.06	53.98	9.93	AV
2483.5	21.70	33.59	H	55.29	73.98	18.69	PK
2483.5	11.82	33.59	H	45.41	53.98	8.57	AV
2483.5	21.92	33.59	V	55.51	73.98	18.47	PK
2483.5	11.87	33.59	V	45.46	53.98	8.52	AV

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

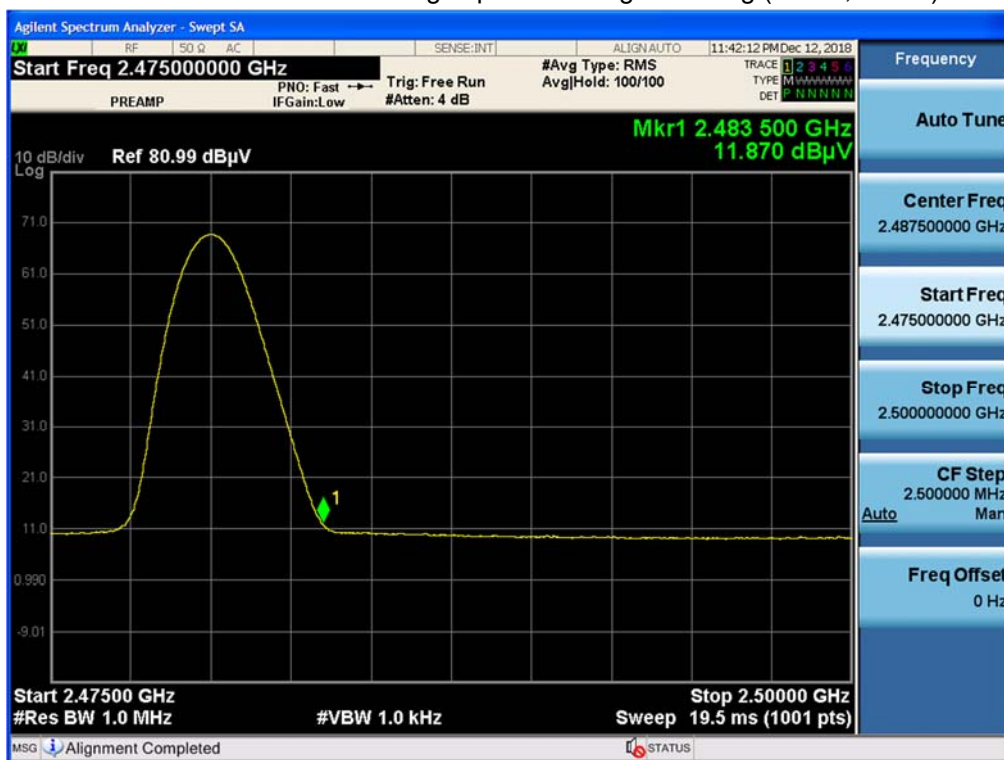
Frequency [MHz]	Reading [dBuV]	A.F + C.L + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	18.44	34.42	H	52.86	73.98	21.12	PK
2390.0	9.16	34.42	H	43.58	53.98	10.40	AV
2390.0	18.48	34.42	V	52.90	73.98	21.08	PK
2390.0	9.19	34.42	V	43.61	53.98	10.37	AV
2483.5	35.28	33.59	H	68.87	73.98	5.11	PK
2483.5	13.47	33.59	H	47.06	53.98	6.92	AV
2483.5	35.30	33.59	V	68.89	73.98	5.09	PK
2483.5	13.50	33.59	V	47.09	53.98	6.89	AV

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

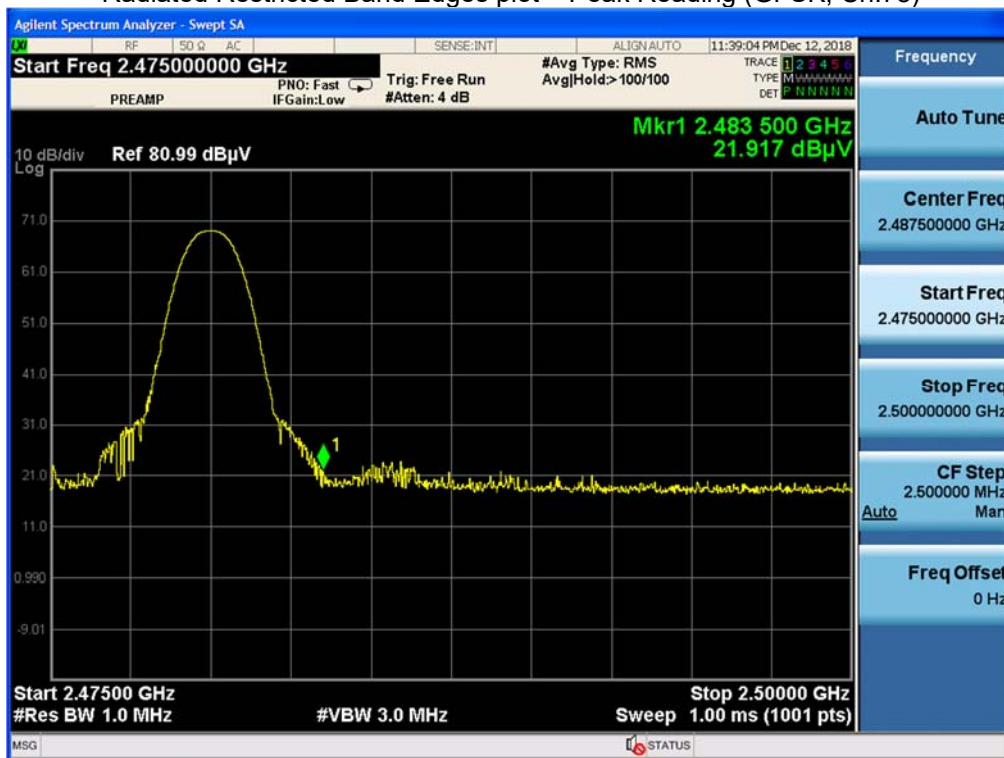
Frequency [MHz]	Reading [dBuV]	A.F + C.L + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	18.18	34.42	H	52.60	73.98	21.38	PK
2390.0	9.01	34.42	H	43.43	53.98	10.55	AV
2390.0	18.27	34.42	V	52.69	73.98	21.29	PK
2390.0	9.00	34.42	V	43.42	53.98	10.56	AV
2483.5	35.26	33.59	H	68.85	73.98	5.13	PK
2483.5	14.53	33.59	H	48.12	53.98	5.86	AV
2483.5	35.34	33.59	V	68.93	73.98	5.05	PK
2483.5	14.63	33.59	V	48.22	53.98	5.76	AV

RESULT PLOTS (Worst case : Z-V)

Radiated Restricted Band Edges plot – Average Reading (GFSK, Ch.78)



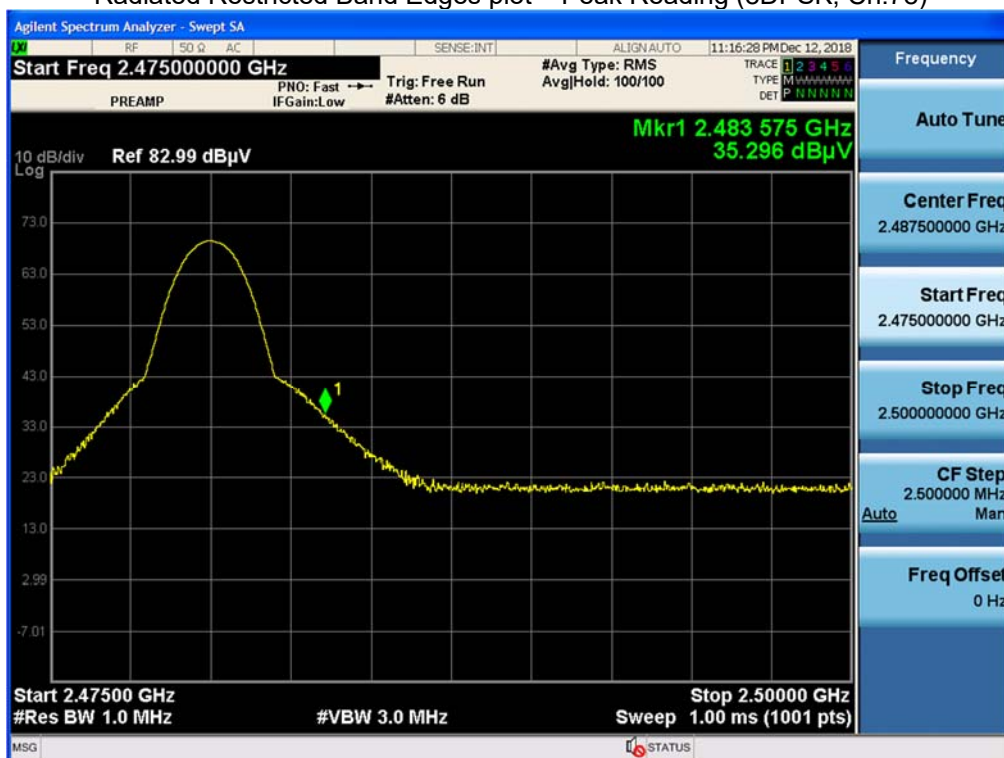
Radiated Restricted Band Edges plot – Peak Reading (GFSK, Ch.78)



Radiated Restricted Band Edges plot – Average Reading (8DPSK, Ch.78)



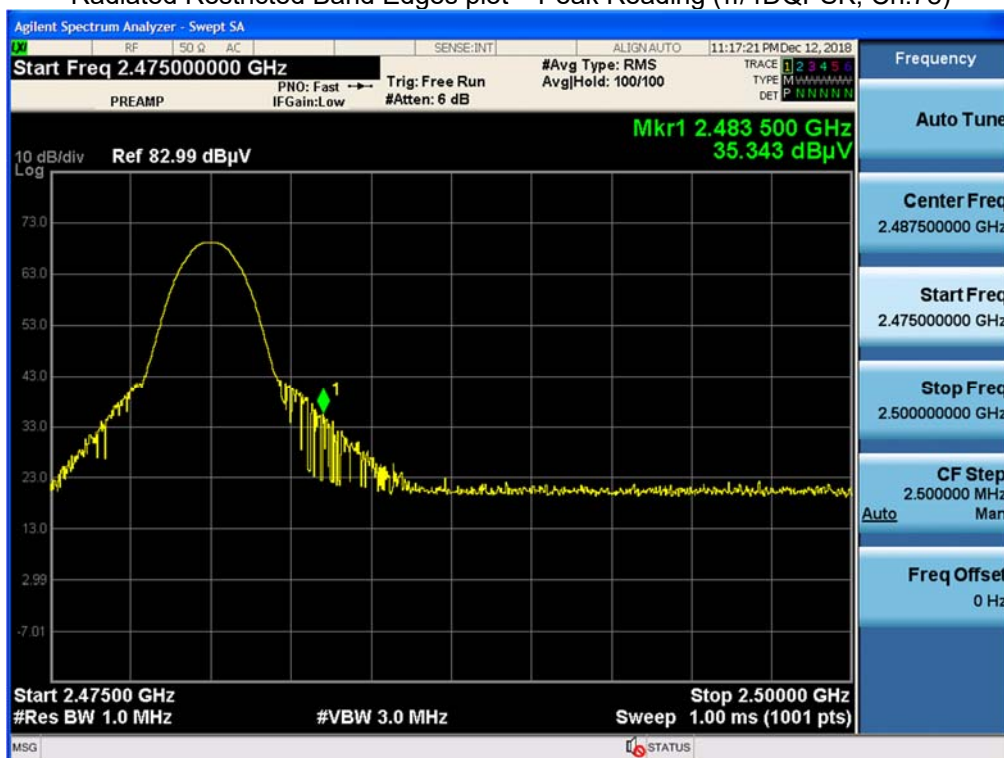
Radiated Restricted Band Edges plot – Peak Reading (8DPSK, Ch.78)



Radiated Restricted Band Edges plot – Average Reading ($\pi/4$ DQPSK, Ch.78)



Radiated Restricted Band Edges plot – Peak Reading ($\pi/4$ DQPSK, Ch.78)



Note:

Plot of worst case are only reported.

10.7 POWERLINE CONDUCTED EMISSIONS

Conducted Emissions (Line 1)

Test

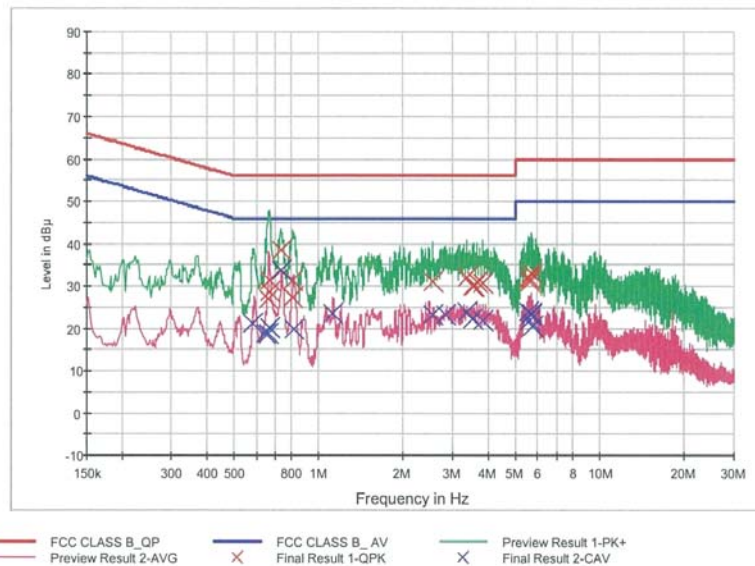
1 / 2

HCT TEST Report

Common Information

EUT: SM-M205F/DS
Manufacturer: SAMSUNG
Test Site: SHIELD ROOM
Operating Conditions: BT_L1

FCC CLASS B_Exten Cable



Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.666000	27.0	9.000	Off	L1	9.8	29.0	56.0
0.670000	28.7	9.000	Off	L1	9.8	27.3	56.0
0.674000	31.5	9.000	Off	L1	9.8	24.5	56.0
0.732000	38.6	9.000	Off	L1	9.8	17.4	56.0
0.806000	31.4	9.000	Off	L1	9.8	24.6	56.0
0.812000	27.2	9.000	Off	L1	9.8	28.8	56.0
2.548000	31.1	9.000	Off	L1	9.9	24.9	56.0
3.374000	32.2	9.000	Off	L1	9.9	23.8	56.0
3.530000	30.1	9.000	Off	L1	9.9	25.9	56.0
3.584000	30.1	9.000	Off	L1	9.9	25.9	56.0
3.664000	31.0	9.000	Off	L1	9.9	25.0	56.0
3.822000	30.7	9.000	Off	L1	10.0	25.3	56.0
5.546000	31.9	9.000	Off	L1	10.1	28.1	60.0
5.638000	31.5	9.000	Off	L1	10.1	28.5	60.0
5.650000	31.1	9.000	Off	L1	10.1	28.9	60.0
5.658000	31.1	9.000	Off	L1	10.1	28.9	60.0
5.728000	32.9	9.000	Off	L1	10.1	27.1	60.0
5.732000	33.1	9.000	Off	L1	10.1	26.9	60.0

2018-12-17

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Test

2 / 2

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.582000	21.1	9.000	Off	L1	9.8	24.9	46.0
0.650000	18.9	9.000	Off	L1	9.8	27.1	46.0
0.666000	18.7	9.000	Off	L1	9.8	27.3	46.0
0.670000	20.1	9.000	Off	L1	9.8	25.9	46.0
0.740000	33.7	9.000	Off	L1	9.8	12.3	46.0
0.814000	19.9	9.000	Off	L1	9.8	26.1	46.0
1.124000	23.4	9.000	Off	L1	9.8	22.6	46.0
2.548000	23.4	9.000	Off	L1	9.9	22.6	46.0
2.820000	23.3	9.000	Off	L1	9.9	22.7	46.0
3.374000	24.0	9.000	Off	L1	9.9	22.0	46.0
3.530000	22.0	9.000	Off	L1	9.9	24.0	46.0
3.822000	22.0	9.000	Off	L1	10.0	24.0	46.0
5.546000	24.0	9.000	Off	L1	10.1	26.0	50.0
5.638000	21.9	9.000	Off	L1	10.1	28.1	50.0
5.660000	21.9	9.000	Off	L1	10.1	28.1	50.0
5.728000	23.5	9.000	Off	L1	10.1	26.5	50.0
5.732000	23.3	9.000	Off	L1	10.1	26.7	50.0
5.796000	20.3	9.000	Off	L1	10.1	29.7	50.0

2018-12-17

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Conducted Emissions (Line 2)

Test

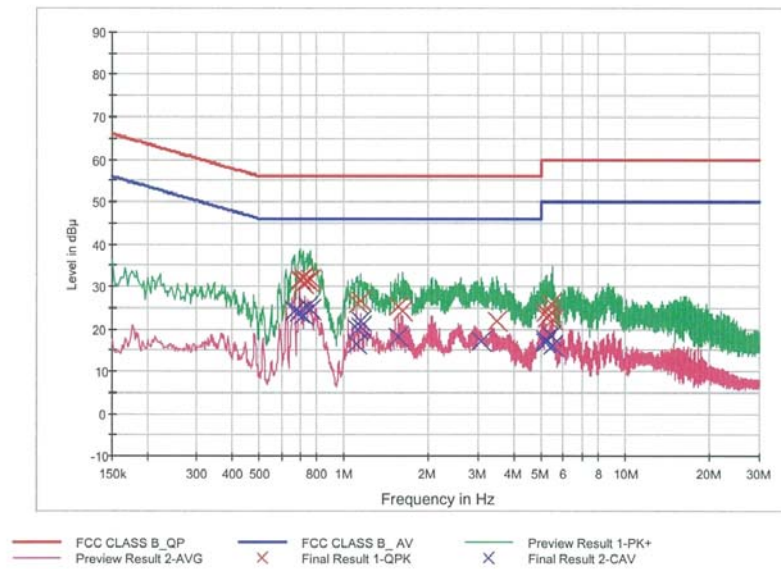
1 / 2

HCT TEST Report

Common Information

EUT: SM-M205F/DS
Manufacturer: SAMSUNG
Test Site: SHIELD ROOM
Operating Conditions: BT_N

FCC CLASS B_Exten Cable



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.700000	31.4	9.000	Off	N	9.9	24.6	56.0
0.704000	31.6	9.000	Off	N	9.9	24.4	56.0
0.716000	32.1	9.000	Off	N	9.9	23.9	56.0
0.722000	30.5	9.000	Off	N	9.9	25.5	56.0
0.748000	31.3	9.000	Off	N	9.9	24.7	56.0
0.758000	31.7	9.000	Off	N	9.9	24.3	56.0
1.116000	25.9	9.000	Off	N	10.0	30.1	56.0
1.148000	26.6	9.000	Off	N	10.0	29.4	56.0
1.152000	26.4	9.000	Off	N	10.0	29.6	56.0
1.554000	25.4	9.000	Off	N	10.1	30.6	56.0
1.614000	24.1	9.000	Off	N	10.1	31.9	56.0
3.504000	21.9	9.000	Off	N	10.1	34.1	56.0
5.174000	23.9	9.000	Off	N	10.2	36.1	60.0
5.240000	22.4	9.000	Off	N	10.2	37.6	60.0
5.410000	25.9	9.000	Off	N	10.2	34.1	60.0
5.438000	24.0	9.000	Off	N	10.2	36.0	60.0
5.458000	24.0	9.000	Off	N	10.2	36.0	60.0
5.502000	22.4	9.000	Off	N	10.3	37.6	60.0

2018-12-17

오후 8:52:49

Test

2 / 2

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.668000	24.4	9.000	Off	N	9.9	21.6	46.0
0.698000	23.7	9.000	Off	N	9.9	22.3	46.0
0.716000	23.3	9.000	Off	N	9.9	22.7	46.0
0.722000	23.4	9.000	Off	N	9.9	22.6	46.0
0.748000	25.2	9.000	Off	N	9.9	20.8	46.0
0.758000	24.4	9.000	Off	N	9.9	21.6	46.0
1.112000	16.6	9.000	Off	N	10.0	29.4	46.0
1.116000	19.7	9.000	Off	N	10.0	26.3	46.0
1.148000	21.7	9.000	Off	N	10.0	24.3	46.0
1.152000	20.6	9.000	Off	N	10.0	25.4	46.0
1.554000	18.2	9.000	Off	N	10.1	27.8	46.0
3.060000	17.2	9.000	Off	N	10.1	28.8	46.0
5.174000	17.5	9.000	Off	N	10.2	32.6	50.0
5.206000	16.9	9.000	Off	N	10.2	33.1	50.0
5.410000	18.5	9.000	Off	N	10.2	31.5	50.0
5.438000	18.4	9.000	Off	N	10.2	31.6	50.0
5.458000	18.4	9.000	Off	N	10.2	31.6	50.0
5.496000	16.1	9.000	Off	N	10.2	33.9	50.0

2018-12-17

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11 LIST OF TEST EQUIPMENT

Conducted Test

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Rohde & Schwarz	ENV216 / LISN	12/12/2018	Annual	102245
Rohde & Schwarz	ESCI / Test Receiver	06/27/2018	Annual	100033
ESPACE	SU-642 / Temperature Chamber	03/30/2018	Annual	0093008124
Agilent	N9020A / Signal Analyzer	06/08/2018	Annual	MY52090906
Agilent	N1911A / Power Meter	04/16/2018	Annual	MY45100523
Agilent	N1921A / Power Sensor	04/16/2018	Annual	MY52260025
Hewlett Packard	11667B / Power Splitter	06/07/2018	Annual	05001
Hewlett Packard	E3632A / DC Power Supply	06/26/2018	Annual	KR75303960
Agilent	8493C / Attenuator(10 dB)	07/10/2018	Annual	07560
Rohde & Schwarz	EMC32 / Software	N/A	N/A	N/A
HCT CO., LTD.	FCC WLAN&BT&BLE Conducted Test Software v3.0	N/A	N/A	N/A
Rohde & Schwarz	CBT / Bluetooth Tester	05/17/2018	Annual	100422

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

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Innco system	CO3000 / Controller(Antenna mast)	N/A	N/A	CO3000-4p
Innco system	MA4640/800-XP-EP / Antenna Position Tower	N/A	N/A	N/A
Audix	EM1000 / Controller	N/A	N/A	060520
Audix	Turn Table	N/A	N/A	N/A
Rohde & Schwarz	Loop Antenna	04/19/2017	Biennial	1513-175
Schwarzbeck	VULB 9168 / Hybrid Antenna	04/06/2017	Biennial	760
Schwarzbeck	VULB 9160 / TRILOG Antenna	08/09/2018	Biennial	9160-3368
Schwarzbeck	BBHA 9120D / Horn Antenna	05/02/2017	Biennial	9120D-937
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	12/04/2017	Biennial	BBHA9170541
Rohde & Schwarz	FSP(9 kHz ~ 30 GHz) / Spectrum Analyzer	09/03/2018	Annual	100688
Rohde & Schwarz	FSV40-N / Spectrum Analyzer	09/28/2018	Annual	101068-SZ
Agilent	N9020A / Signal Analyzer	06/08/2018	Annual	MY51110085
Wainwright Instruments	WHK3.0/18G-10EF / High Pass Filter	06/07/2018	Annual	8
Wainwright Instruments	WHKX7.0/18G-8SS / High Pass Filter	05/09/2018	Annual	29
Wainwright Instruments	WRCJV2400/2483.5-2370/2520-60/12SS / Band Reject Filter	06/29/2018	Annual	2
Wainwright Instruments	WRCJV5100/5850-40/50-8EEK / Band Reject Filter	01/03/2019	Annual	2
Api tech.	18B-03 / Attenuator (3 dB)	06/07/2018	Annual	1
Agilent	8493C-10 / Attenuator(10 dB)	07/17/2018	Annual	08285
CERNEX	CBLU1183540 / Power Amplifier	07/10/2018	Annual	22964
CERNEX	CBL06185030 / Power Amplifier	07/10/2018	Annual	22965
CERNEX	CBL18265035 / Power Amplifier	01/03/2019	Annual	22966
CERNEX	CBL26405040 / Power Amplifier	06/29/2018	Annual	25956
TESCOM	TC-3000C / Bluetooth Tester	03/27/2018	Annual	3000C000276

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.

12 ANNEX A_ TEST SETUP PHOTO

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

No.	Description
1	HCT-RF-1902-FC027-P
2	HCT-RF-1902-FC028-P
3	HCT-RF-1902-FC029-P