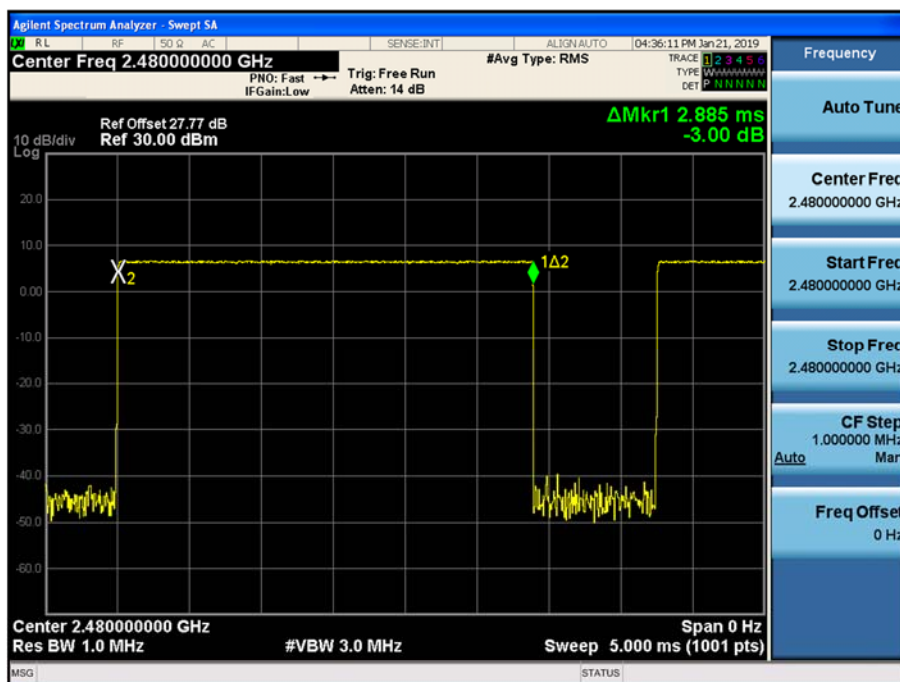


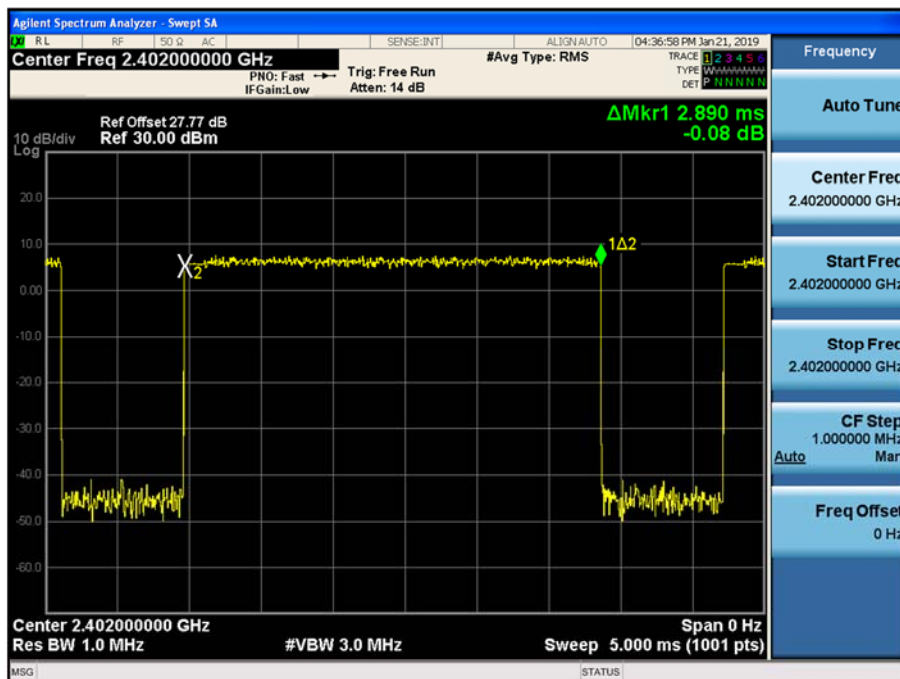
Test Plots (GFSK)

Dwell Time (CH.78)



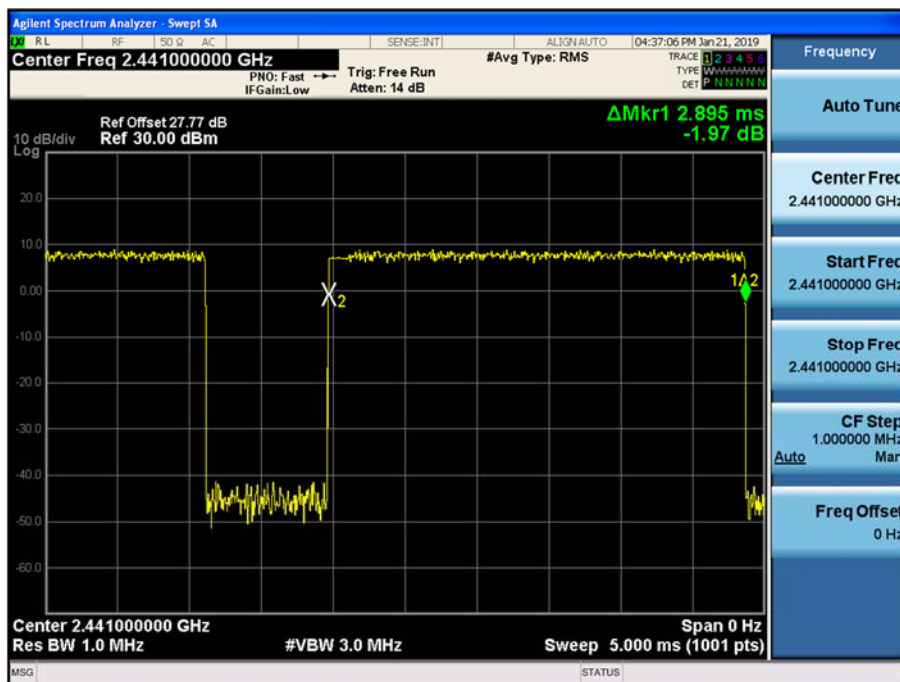
Test Plots (8DPSK)

Dwell Time (CH.0)



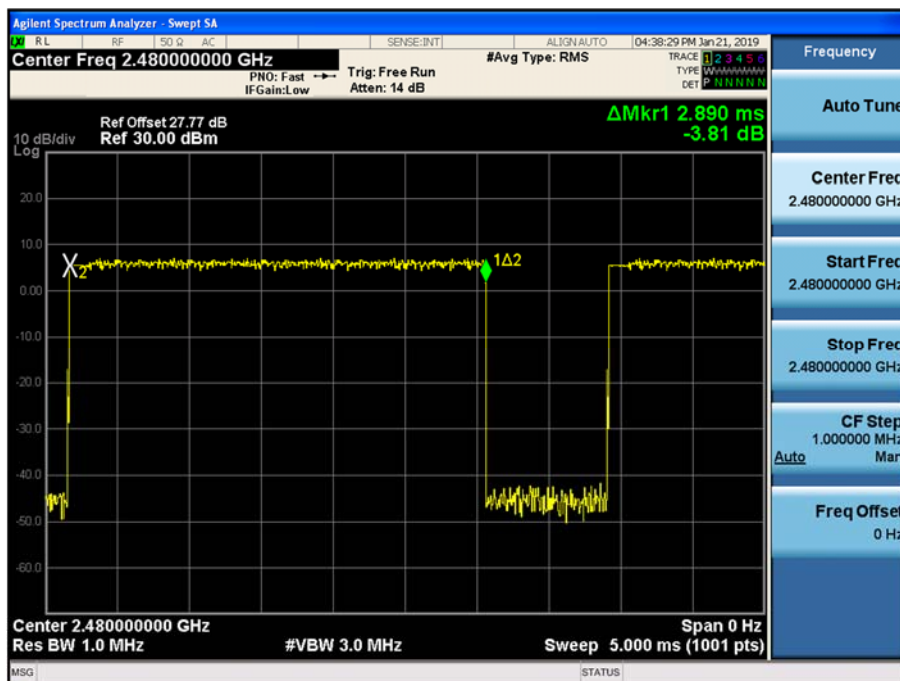
Test Plots (8DPSK)

Dwell Time (CH.39)



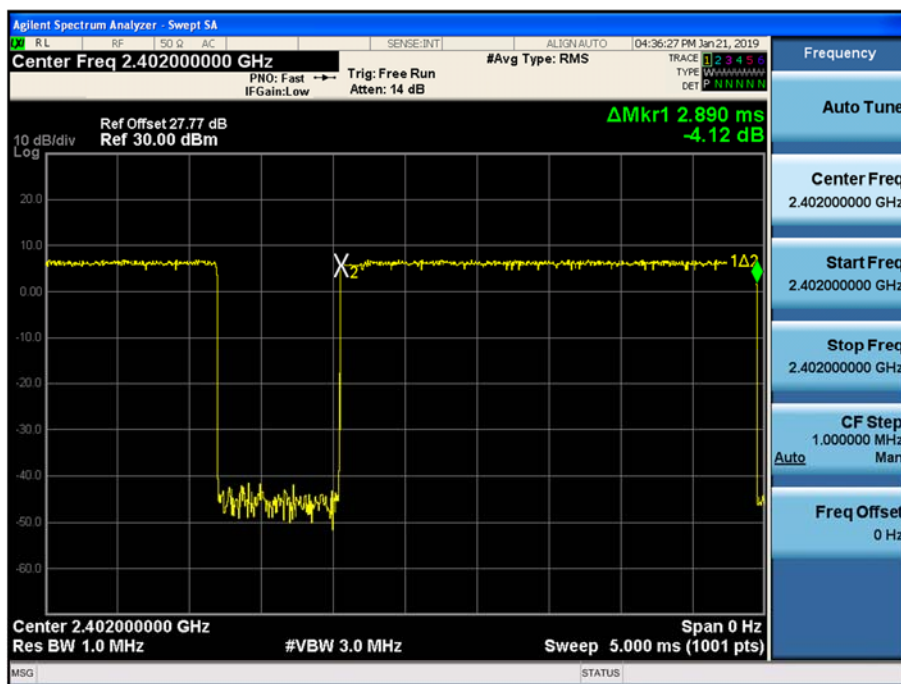
Test Plots (8DPSK)

Dwell Time (CH.78)



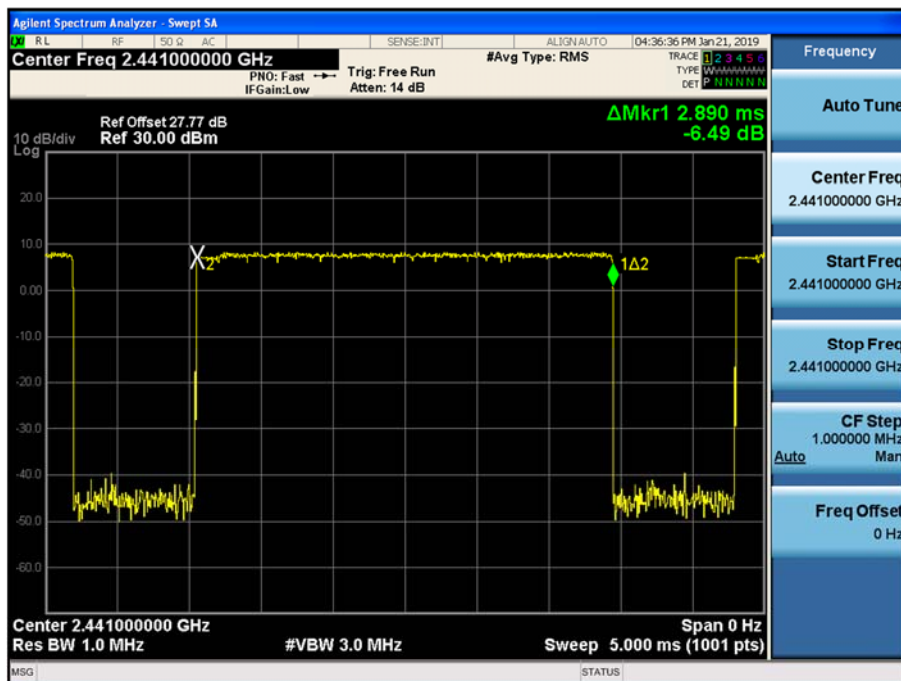
Test Plots ($\pi/4$ DQPSK)

Dwell Time (CH.0)



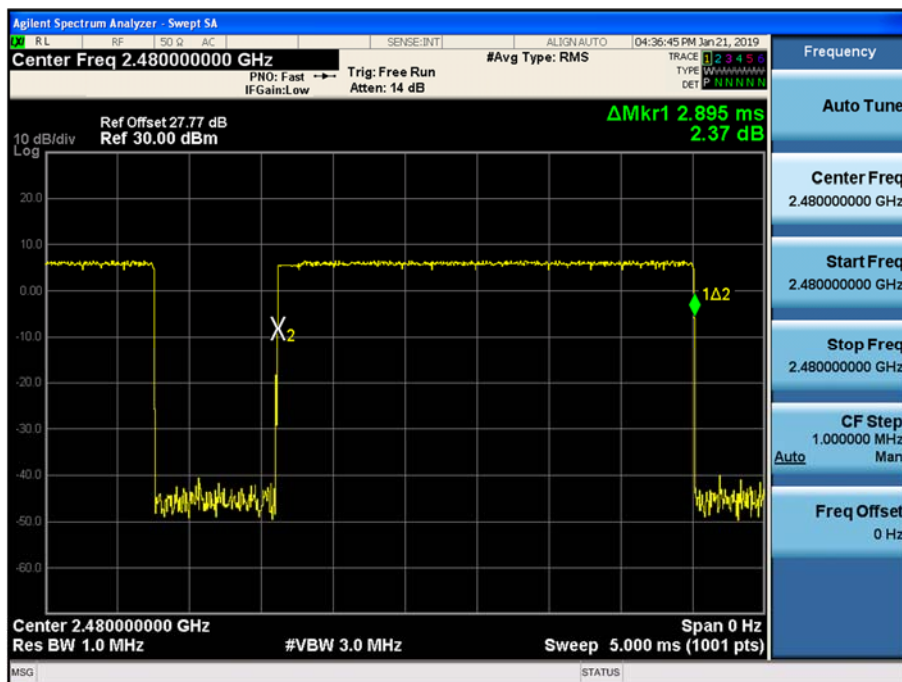
Test Plots ($\pi/4$ DQPSK)

Dwell Time (CH.39)



Test Plots ($\pi/4$ DQPSK)

Dwell Time (CH.78)



10.6 SPURIOUS EMISSIONS

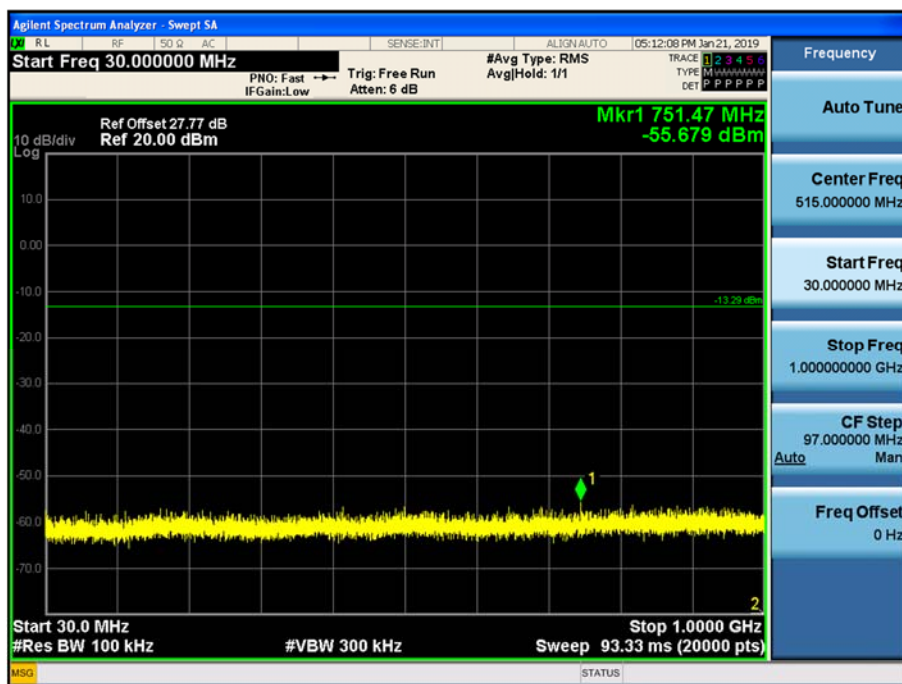
10.6.1 CONDUCTED SPURIOUS EMISSIONS

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.

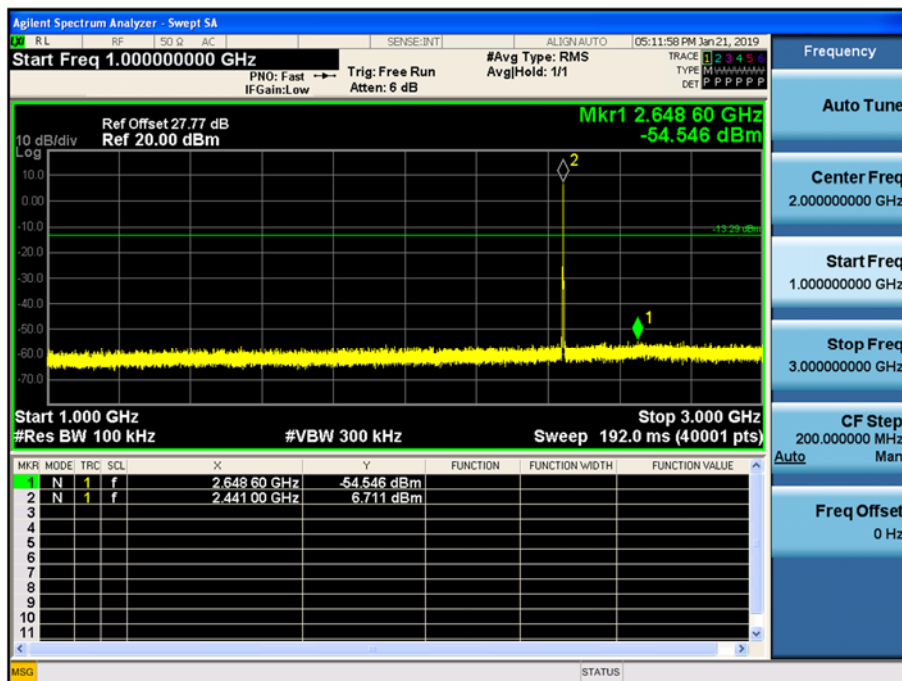
Test Plots (8DPSK)- 30 MHz - 1 GHz

Spurious Emission (CH.39)



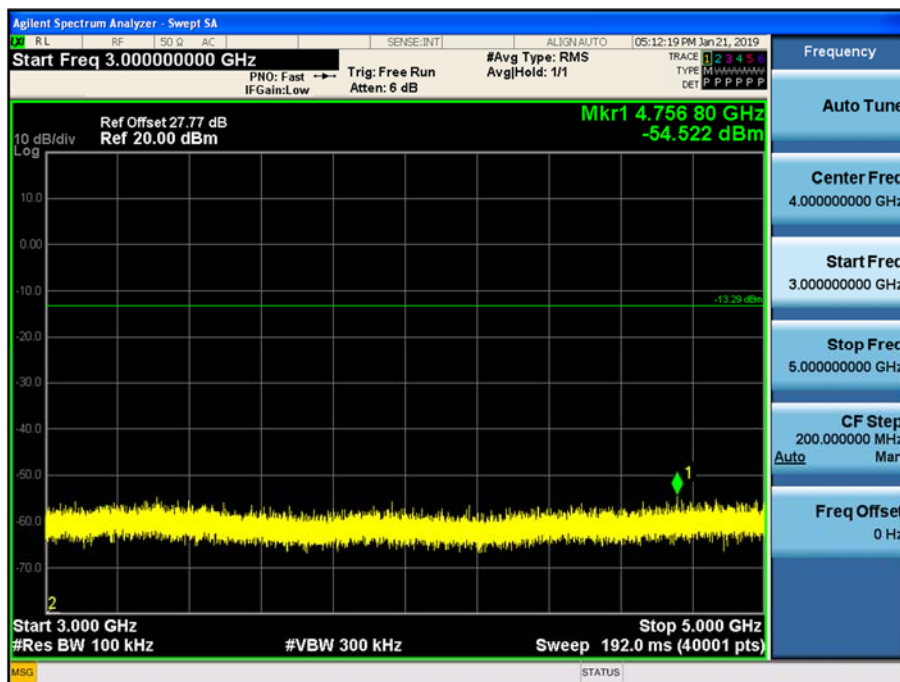
Test Plots (8DPSK)- 1 GHz – 3 GHz

Spurious Emission (CH.39)



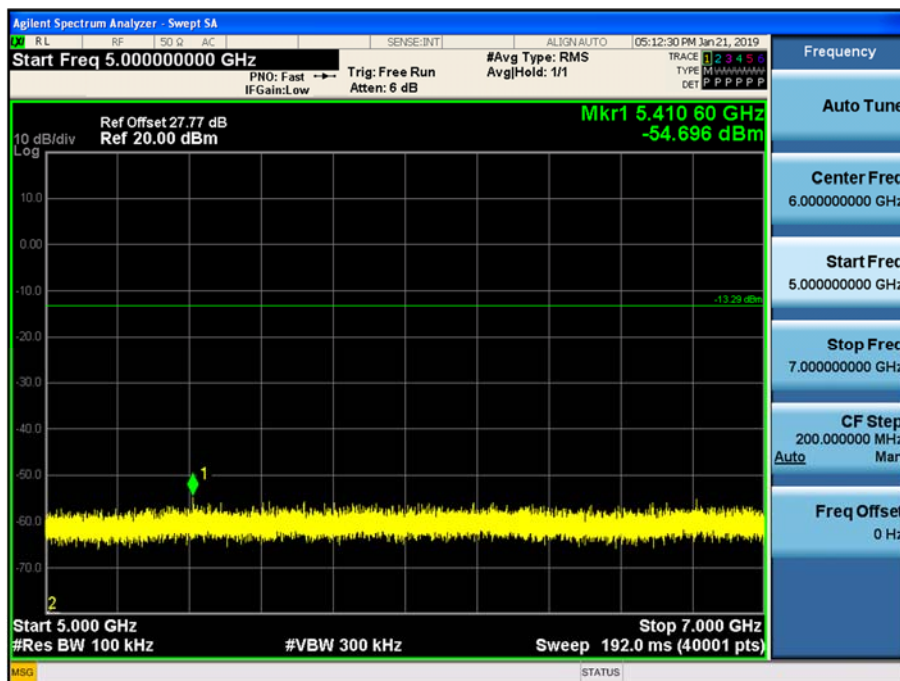
Test Plots(8DPSK)- 3 GHz - 5 GHz

Spurious Emission (CH.39)



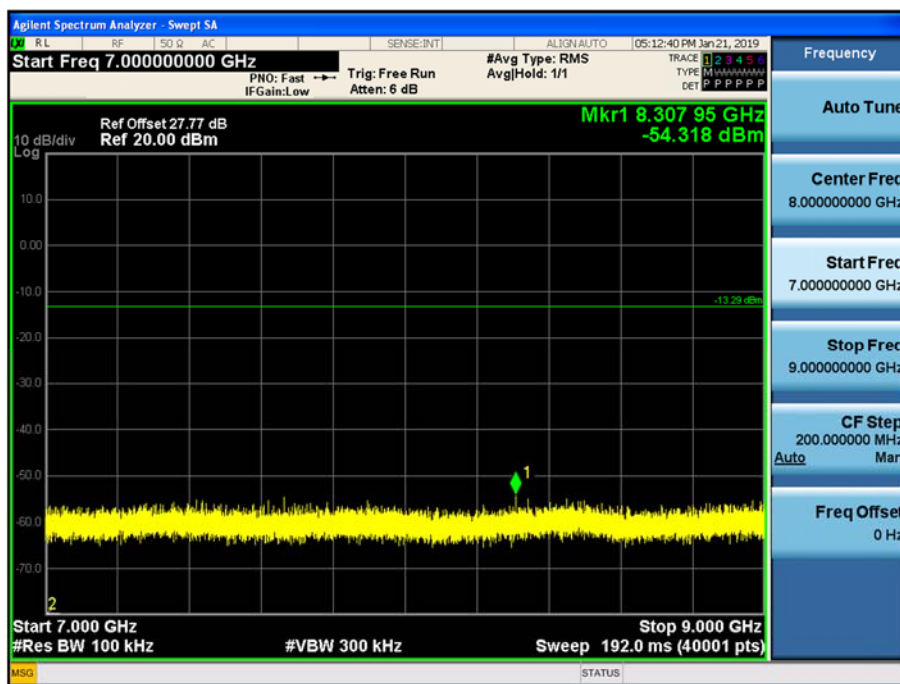
Test Plots (8DPSK)- 5 GHz - 7 GHz

Spurious Emission (CH.39)



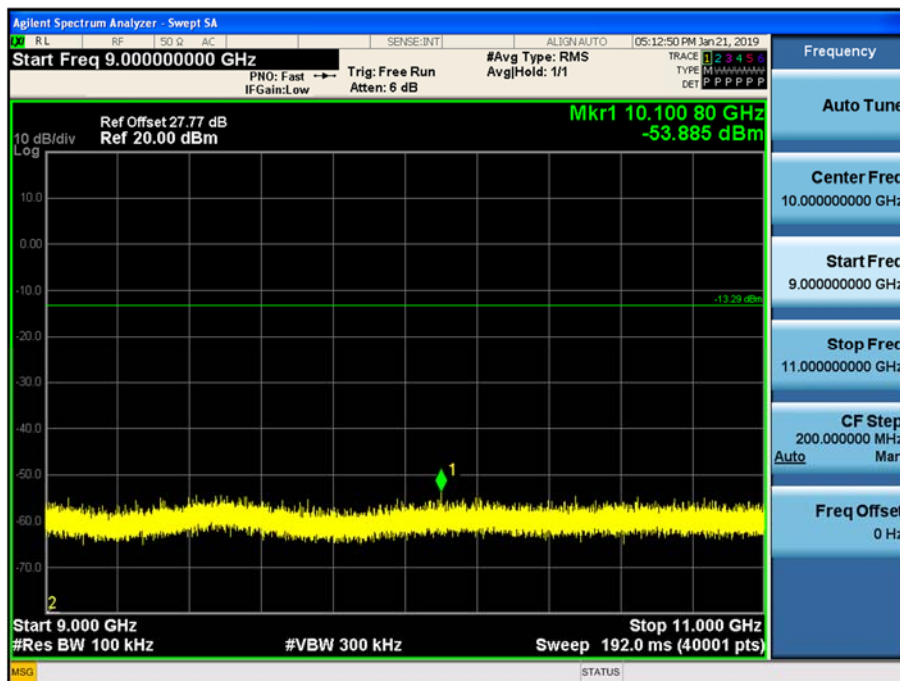
Test Plots(8DPSK)- 7 GHz - 9 GHz

Spurious Emission (CH.39)



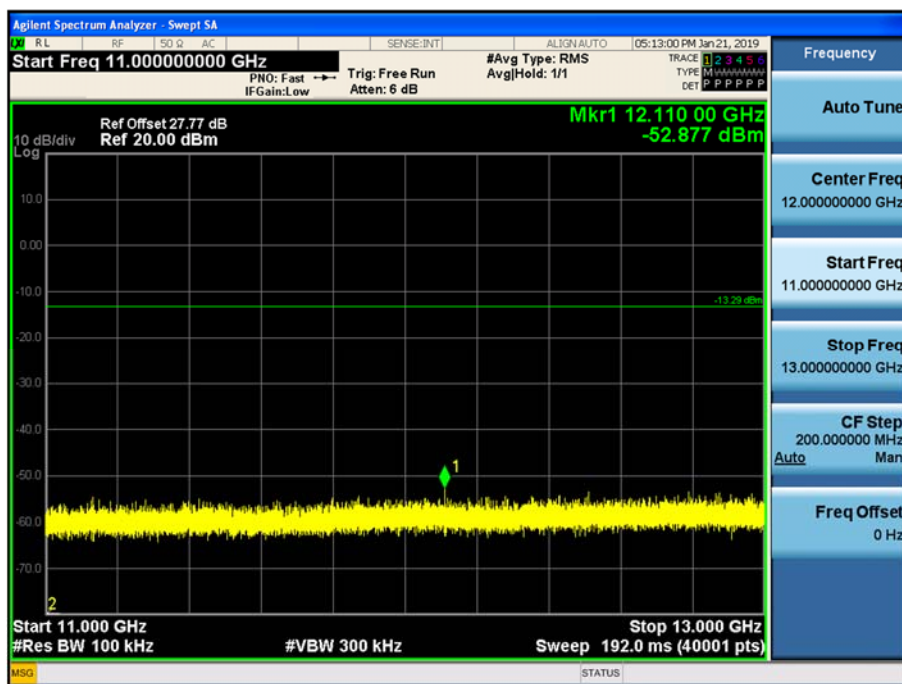
Test Plots(8DPSK)- 9 GHz - 11 GHz

Spurious Emission (CH.39)



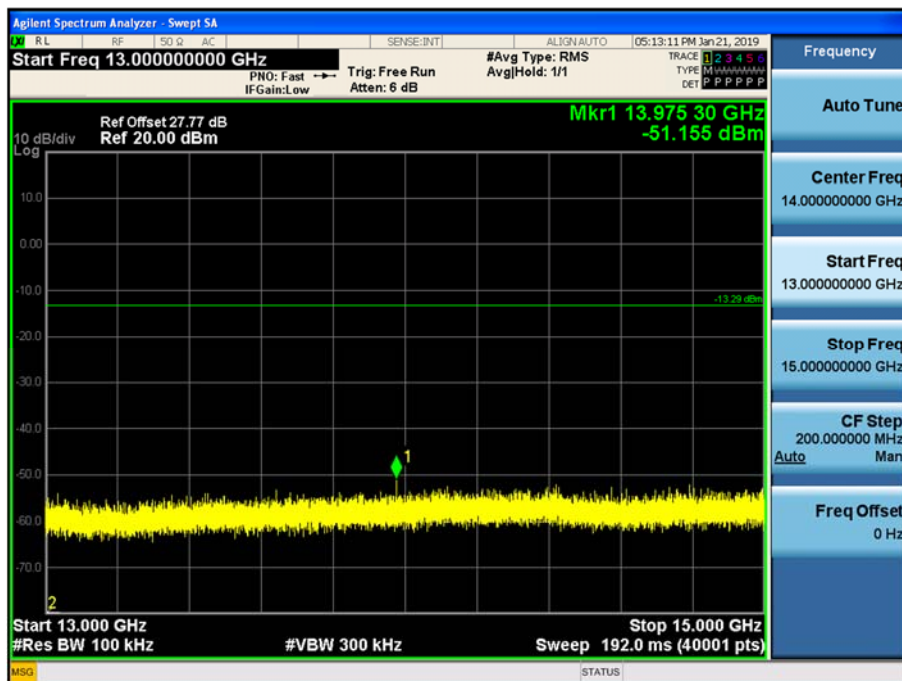
Test Plots(8DPSK) 11 GHz - 13 GHz

Spurious Emission (CH.39)



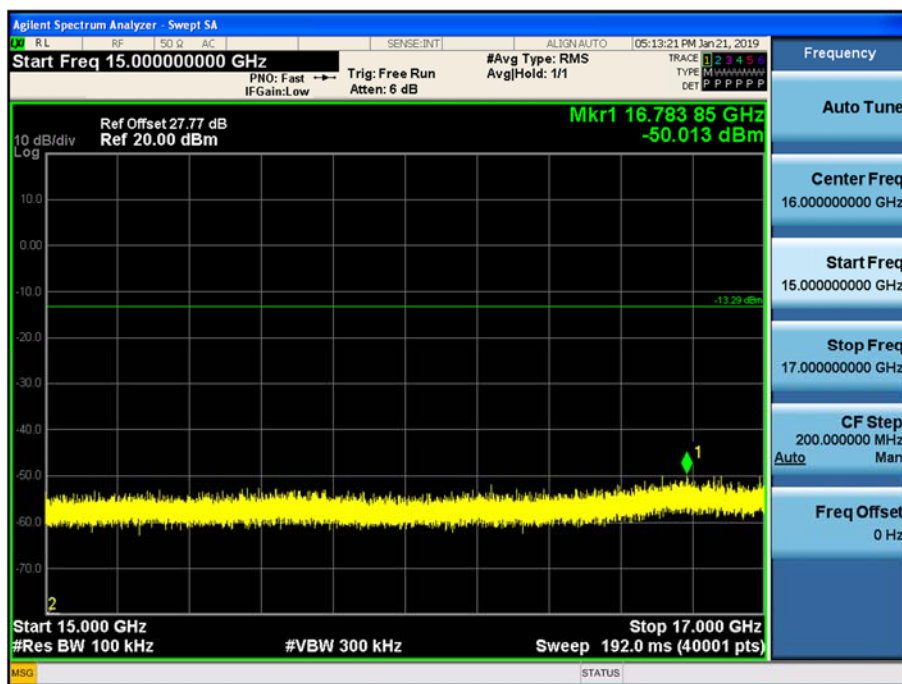
Test Plots (8DPSK)- 13 GHz – 15 GHz

Spurious Emission (CH.39)



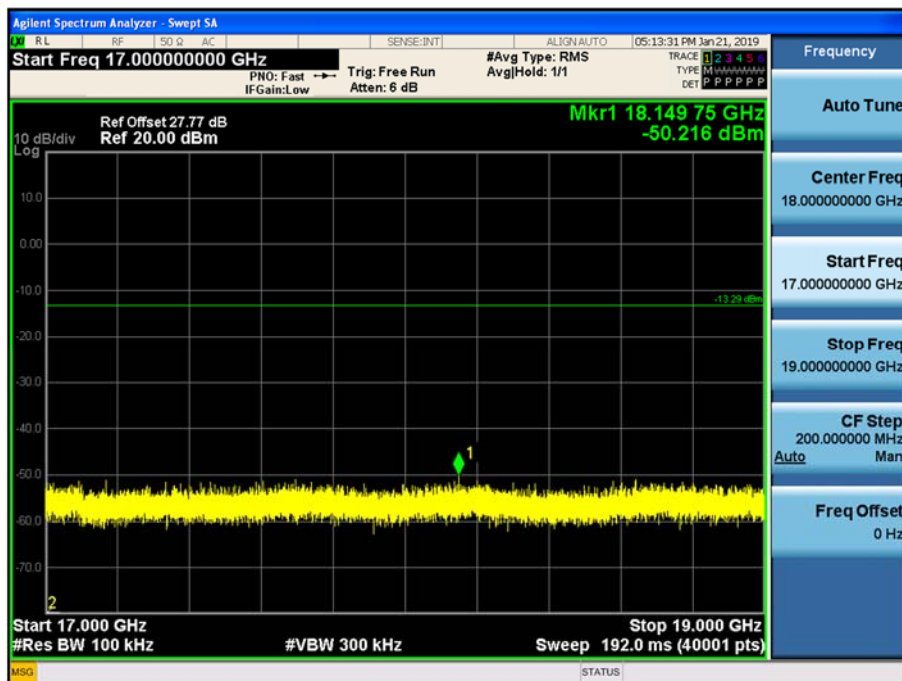
Test Plots(8DPSK)– 15 GHz - 17 GHz

Spurious Emission (CH.39)



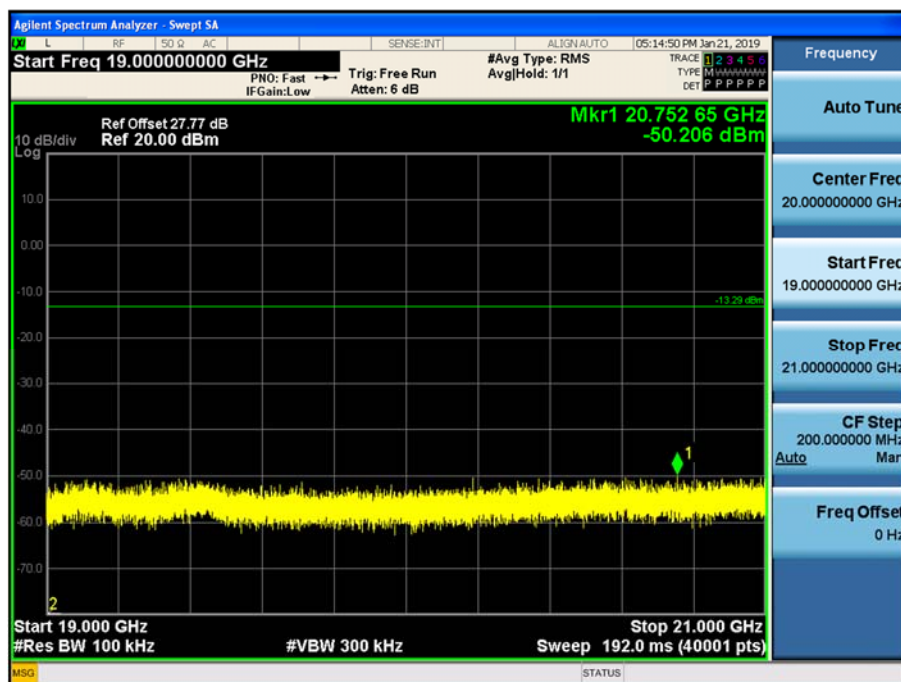
Test Plots(8DPSK)- 17 GHz - 19 GHz

Spurious Emission (CH.39)



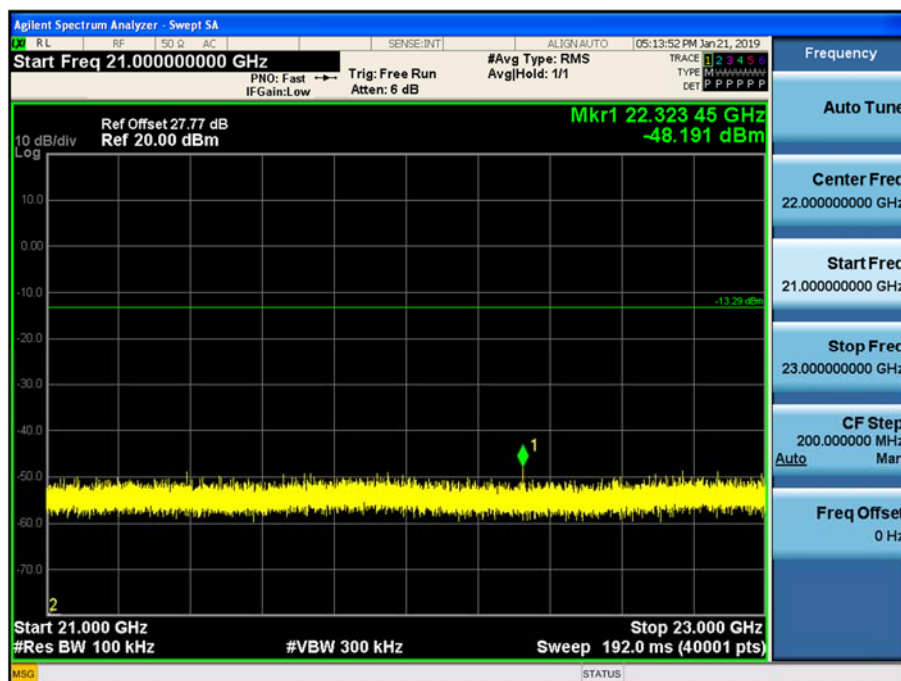
Test Plots (8DPSK)- 19 GHz - 21 GHz

Spurious Emission (CH.39)



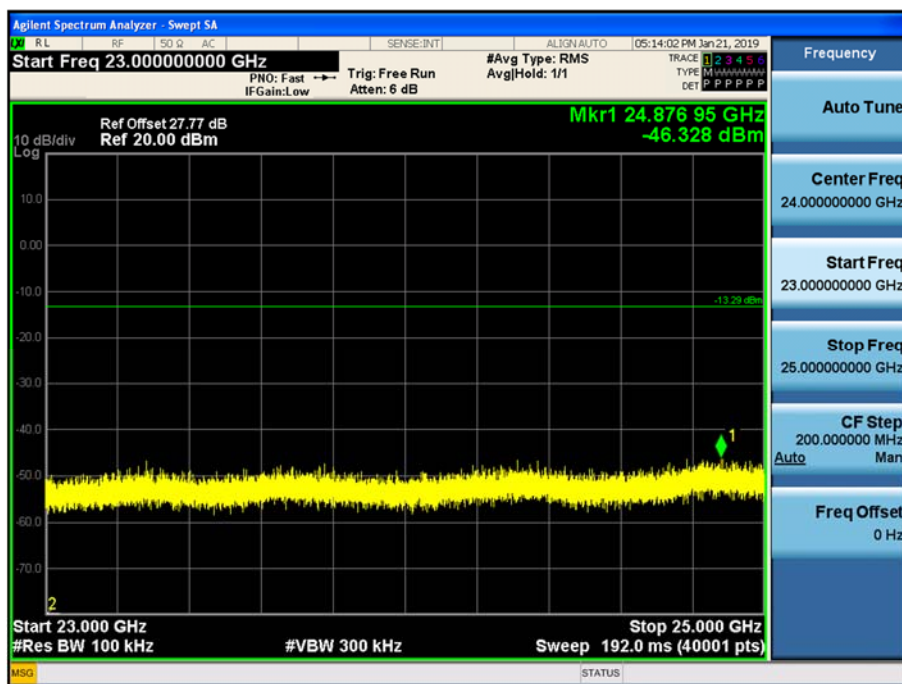
Test Plots (8DPSK)- 21 GHz - 23 GHz

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 OFS 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	48.96	0.74	V	49.70	73.98	24.28	PK
4804	35.47	0.74	V	36.21	53.98	17.77	AV
7206	46.51	9.25	V	55.76	73.98	18.23	PK
7206	31.99	9.25	V	41.24	53.98	12.75	AV
4804	48.85	0.74	H	49.59	73.98	24.39	PK
4804	35.14	0.74	H	35.88	53.98	18.10	AV
7206	46.15	9.25	H	55.40	73.98	18.59	PK
7206	31.84	9.25	H	41.09	53.98	12.90	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	49.12	0.74	V	49.86	73.98	24.12	PK
4804	35.35	0.74	V	36.09	53.98	17.89	AV
7206	46.21	9.25	V	55.46	73.98	18.53	PK
7206	32.08	9.25	V	41.33	53.98	12.66	AV
4804	48.66	0.74	H	49.40	73.98	24.58	PK
4804	35.30	0.74	H	36.04	53.98	17.94	AV
7206	45.11	9.25	H	54.36	73.98	19.63	PK
7206	32.01	9.25	H	41.26	53.98	12.73	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	48.97	0.74	V	49.71	73.98	24.27	PK
4804	35.32	0.74	V	36.06	53.98	17.92	AV
7206	45.81	9.25	V	55.06	73.98	18.93	PK
7206	32.06	9.25	V	41.31	53.98	12.68	AV
4804	48.75	0.74	H	49.49	73.98	24.49	PK
4804	35.28	0.74	H	36.02	53.98	17.96	AV
7206	45.03	9.25	H	54.28	73.98	19.71	PK
7206	31.90	9.25	H	41.15	53.98	12.84	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	48.63	1.16	V	49.79	73.98	24.19	PK
4882	35.62	1.16	V	36.78	53.98	17.20	AV
7323	45.85	9.14	V	54.99	73.98	18.99	PK
7323	32.16	9.14	V	41.30	53.98	12.68	AV
4882	48.14	1.16	H	49.30	73.98	24.68	PK
4882	35.45	1.16	H	36.61	53.98	17.37	AV
7323	45.37	9.14	H	54.51	73.98	19.47	PK
7323	32.06	9.14	H	41.20	53.98	12.78	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	48.65	1.16	V	49.81	73.98	24.17	PK
4882	35.65	1.16	V	36.81	53.98	17.17	AV
7323	45.58	9.14	V	54.72	73.98	19.26	PK
7323	32.14	9.14	V	41.28	53.98	12.70	AV
4882	48.11	1.16	H	49.27	73.98	24.71	PK
4882	35.48	1.16	H	36.64	53.98	17.34	AV
7323	44.89	9.14	H	54.03	73.98	19.95	PK
7323	32.05	9.14	H	41.19	53.98	12.79	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	48.70	1.16	V	49.86	73.98	24.12	PK
4882	35.72	1.16	V	36.88	53.98	17.10	AV
7323	45.96	9.14	V	55.1	73.98	18.88	PK
7323	32.11	9.14	V	41.25	53.98	12.73	AV
4882	48.09	1.16	H	49.25	73.98	24.73	PK
4882	35.56	1.16	H	36.72	53.98	17.26	AV
7323	46.11	9.14	H	55.25	73.98	18.73	PK
7323	32.08	9.14	H	41.22	53.98	12.76	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	49.91	0.76	V	50.67	73.98	23.31	PK
4960	36.55	0.76	V	37.31	53.98	16.67	AV
7440	45.80	9.86	V	55.66	73.98	18.32	PK
7440	31.83	9.86	V	41.69	53.98	12.29	AV
4960	49.06	0.76	H	49.82	73.98	24.16	PK
4960	36.48	0.76	H	37.24	53.98	16.74	AV
7440	44.75	9.86	H	54.61	73.98	19.37	PK
7440	31.72	9.86	H	41.58	53.98	12.40	AV

Operation Mode: CH High(8DPSK)

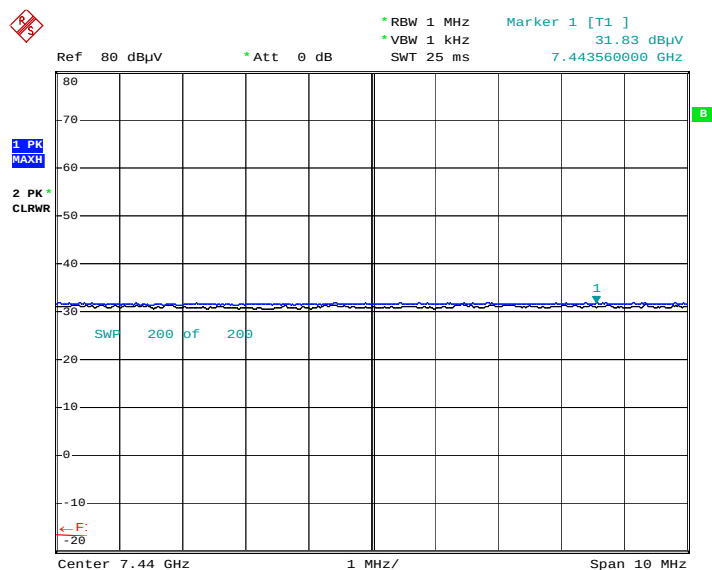
Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4960	49.78	0.76	V	50.54	73.98	23.44	PK
4960	36.46	0.76	V	37.22	53.98	16.76	AV
7440	46.01	9.86	V	55.87	73.98	18.11	PK
7440	32.04	9.86	V	41.90	53.98	12.08	AV
4960	49.56	0.76	H	50.32	73.98	23.66	PK
4960	36.31	0.76	H	37.07	53.98	16.91	AV
7440	45.30	9.86	H	55.16	73.98	18.82	PK
7440	31.79	9.86	H	41.65	53.98	12.33	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	49.58	0.76	V	50.34	73.98	23.64	PK
4960	36.38	0.76	V	37.14	53.98	16.84	AV
7440	45.71	9.86	V	55.57	73.98	18.41	PK
7440	31.87	9.86	V	41.73	53.98	12.25	AV
4960	49.12	0.76	H	49.88	73.98	24.10	PK
4960	36.28	0.76	H	37.04	53.98	16.94	AV
7440	45.28	9.86	H	55.14	73.98	18.84	PK
7440	31.81	9.86	H	41.67	53.98	12.31	AV

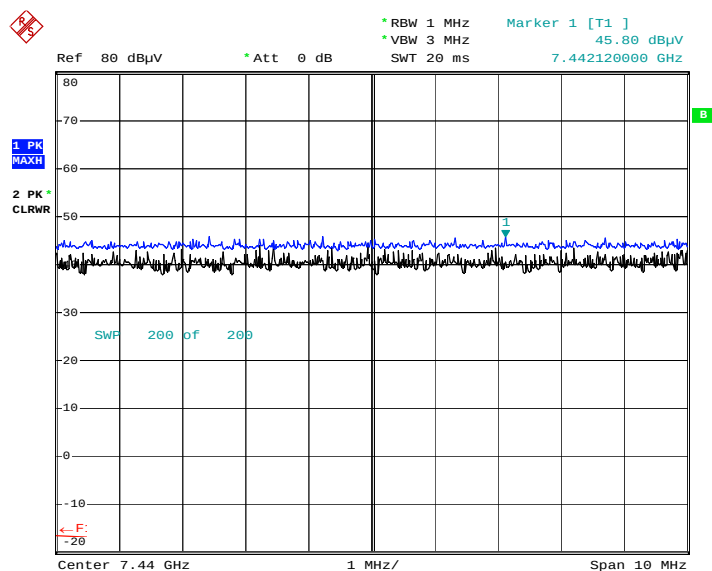
RESULT PLOTS (Worst case : X-V)

Radiated Spurious Emissions plot – Average Reading (GFSK, Ch.78 3rd Harmonic)



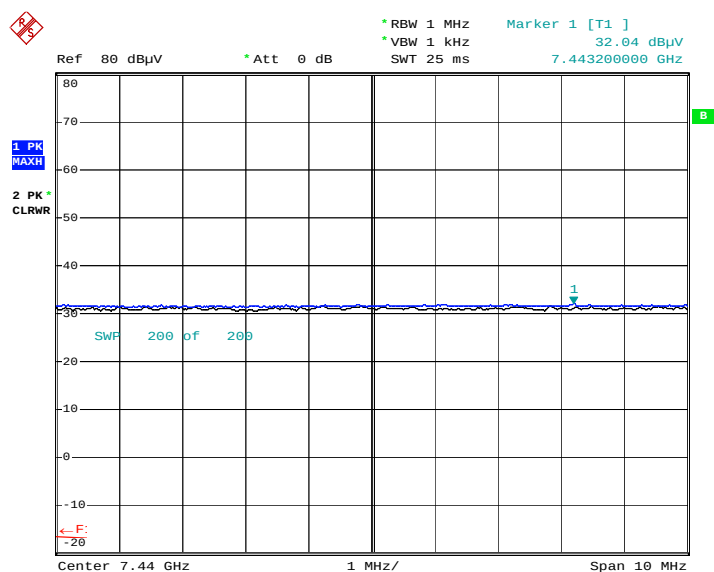
Date: 31.JAN.2019 09:20:57

Radiated Spurious Emissions plot – Peak Reading (GFSK, Ch.78 3rd Harmonic)



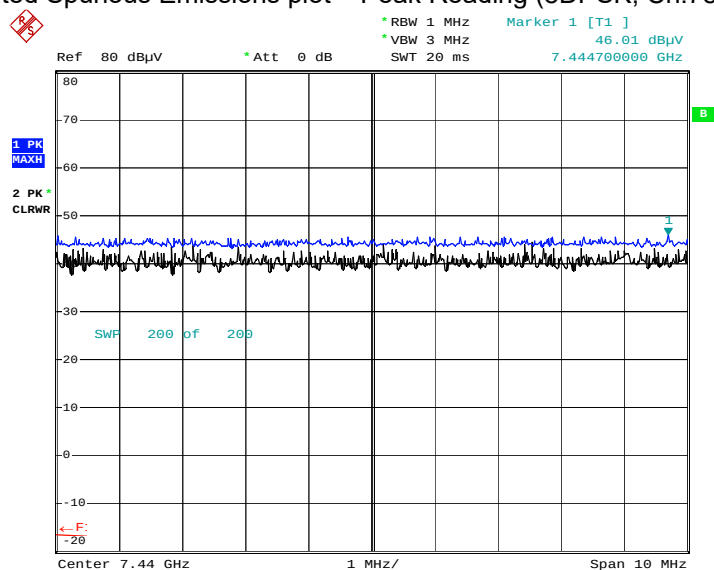
Date: 31.JAN.2019 09:19:45

Radiated Spurious Emissions plot – Average Reading (8DPSK, Ch.78 3rd Harmonic)



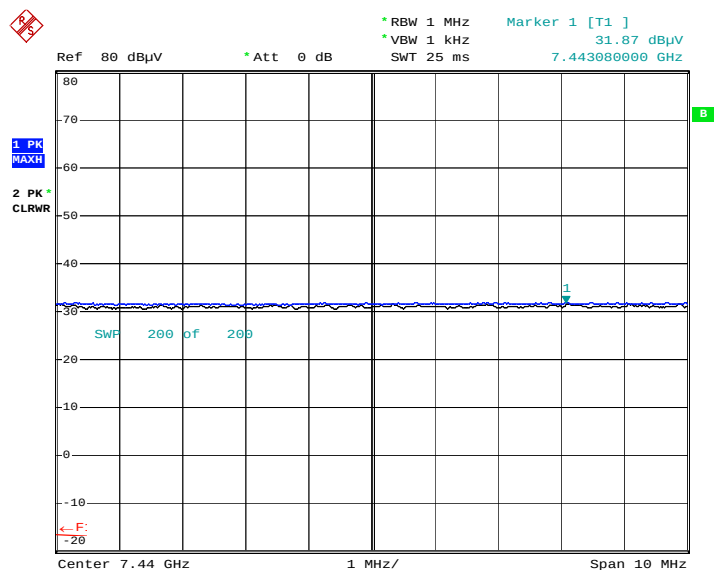
Date: 31.JAN.2019 09:23:00

Radiated Spurious Emissions plot – Peak Reading (8DPSK, Ch.78 3rd Harmonic)



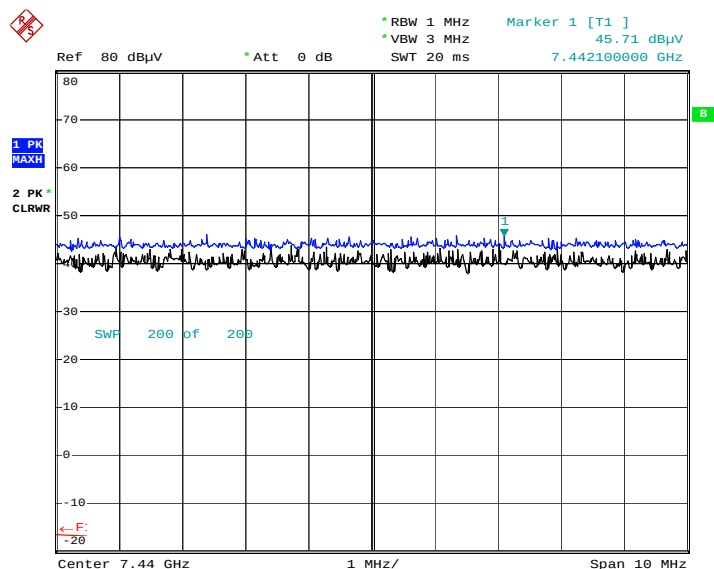
Date: 31.JAN.2019 09:22:35

Radiated Spurious Emissions plot – Average Reading ($\pi/4$ DQPSK, Ch.78 3rd Harmonic)



Date: 31.JAN.2019 09:23:39

Radiated Spurious Emissions plot – Peak Reading ($\pi/4$ DQPSK, Ch.78 3rd Harmonic)



Date: 31.JAN.2019 09:24:01

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	22.07	33.29	H	55.36	73.98	18.62	PK
2390.0	8.77	33.29	H	42.06	53.98	11.92	AV
2390.0	21.99	33.29	V	55.28	73.98	18.70	PK
2390.0	8.71	33.29	V	42.00	53.98	11.98	AV
2483.5	25.84	33.39	H	59.23	73.98	14.75	PK
2483.5	11.66	33.39	H	45.05	53.98	8.93	AV
2483.5	25.81	33.39	V	59.20	73.98	14.78	PK
2483.5	11.32	33.39	V	44.71	53.98	9.28	AV

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

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	18.81	33.29	H	52.10	73.98	21.89	PK
2390.0	8.61	33.29	H	41.90	53.98	12.08	AV
2390.0	18.57	33.29	V	51.86	73.98	22.12	PK
2390.0	8.55	33.29	V	41.84	53.98	12.14	AV

Operation Mode	EDR(8DPSK)
Operating Frequency	2480 MHz
Channel No	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
2483.5 ~2500	15.59	33.39	H	48.98	53.98	5.00	AV
2483.5 ~2500	14.40	33.39	V	47.79	53.98	6.19	AV

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

Frequency [MHz]	Fund. Reading [dBuV]	A.F + C.L + D.F [dB]	Pol. [H/V]	Fund.Total [dBuV/m]	Delta value [dBuV/m]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
* 2483.5~2485.5	69.42	33.39	H	102.81	49.80	53.01	73.98	20.97	PK
* 2483.5~2485.5	68.42	33.39	V	101.81	49.25	52.56	73.98	21.42	PK

Frequency [MHz]	Reading [dBuV]	A.F + C.L + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2485.5 ~2500	27.49	33.39	H	60.88	73.98	13.10	PK
2485.5 ~2500	27.13	33.39	V	60.52	73.98	13.46	PK

[NOTE]

- * : Procedure 6.10.6 (Marker-delta method) in ANSI 63.10-2013

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

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	19.56	33.29	H	52.85	73.98	21.14	PK
2390.0	8.46	33.29	H	41.75	53.98	12.23	AV
2390.0	19.42	33.29	V	52.71	73.98	21.27	PK
2390.0	8.35	33.29	V	41.64	53.98	12.34	AV

Operation Mode	EDR($\pi/4$ DQPSK)
Operating Frequency	2480 MHz
Channel No	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
2483.5	15.50	33.39	H	48.89	53.98	5.10	AV
2483.5	14.42	33.39	V	47.81	53.98	6.17	AV

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

Frequency [MHz]	Fund. Reading [dBuV]	A.F + C.L + D.F [dB]	Pol. [H/V]	Fund.Total [dBuV/m]	Delta value [dBuV/m]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
* 2483.5~2485.5	69.17	33.39	H	102.56	48.06	54.50	73.98	19.48	PK
* 2483.5~2485.5	69.05	33.39	V	102.44	47.86	54.58	73.98	19.40	PK

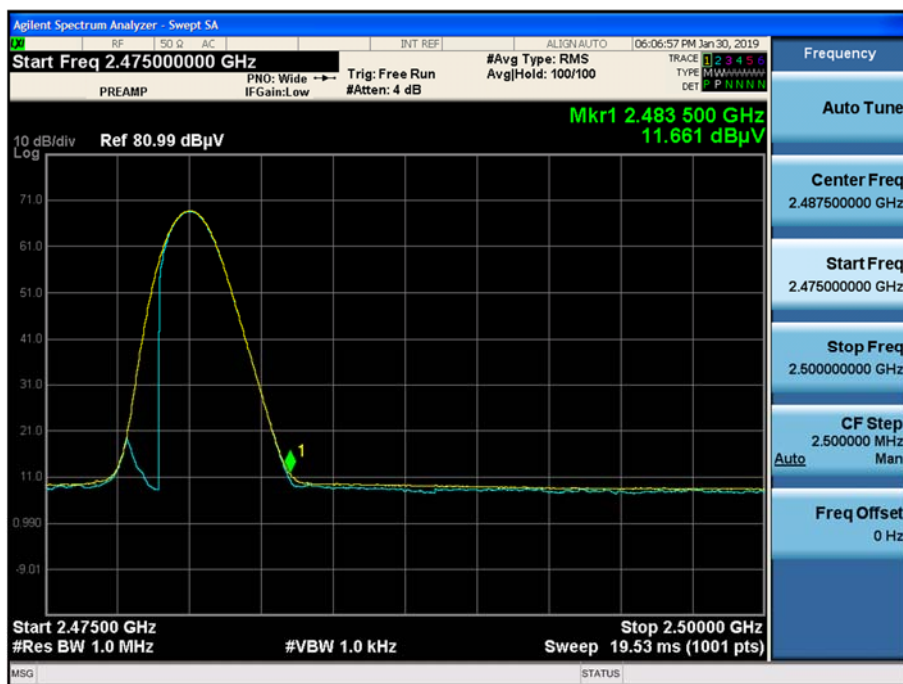
Frequency [MHz]	Reading [dBuV]	A.F + C.L + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2485.5 ~2500	28.49	33.39	H	61.88	73.98	12.10	PK
2485.5 ~2500	28.12	33.39	V	61.51	73.98	12.47	PK

[NOTE]

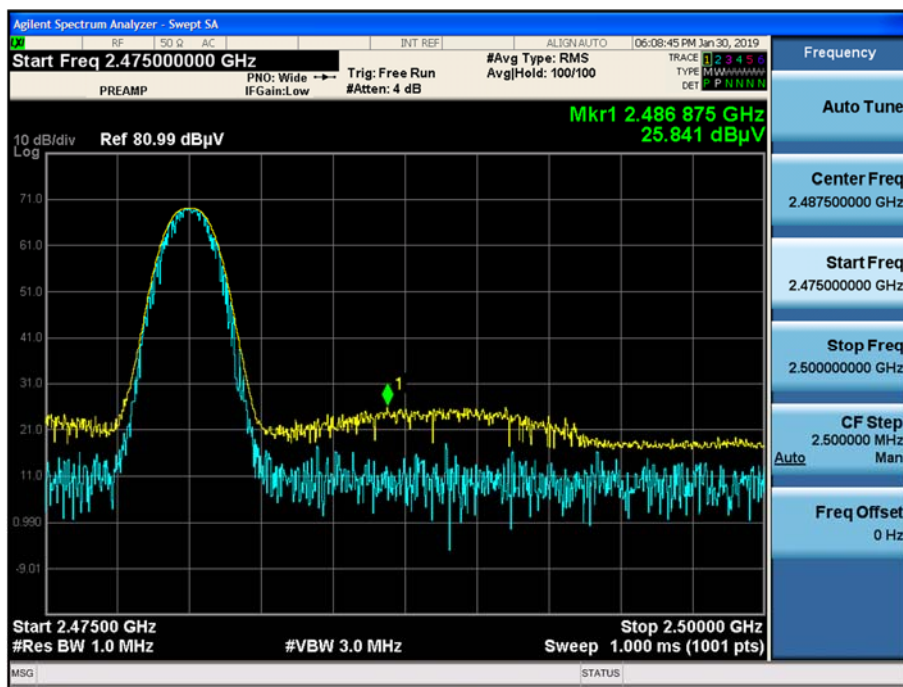
- * : Procedure 6.10.6 (Marker-delta method) in ANSI 63.10-2013

RESULT PLOTS (Worst case : X-H)

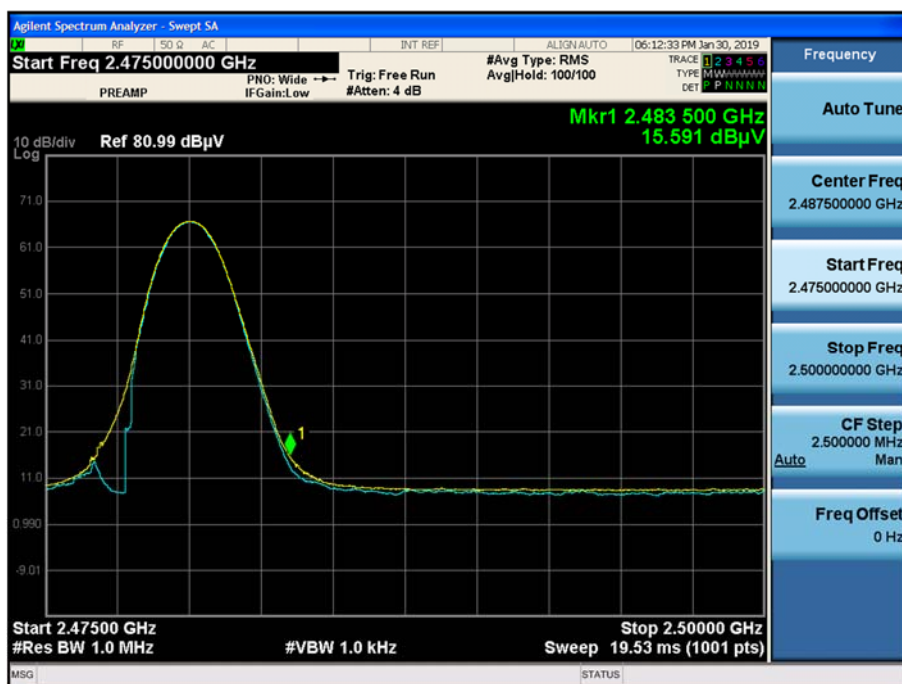
Radiated Restricted Band Edges plot – Average Reading (GFSK, Ch.78)



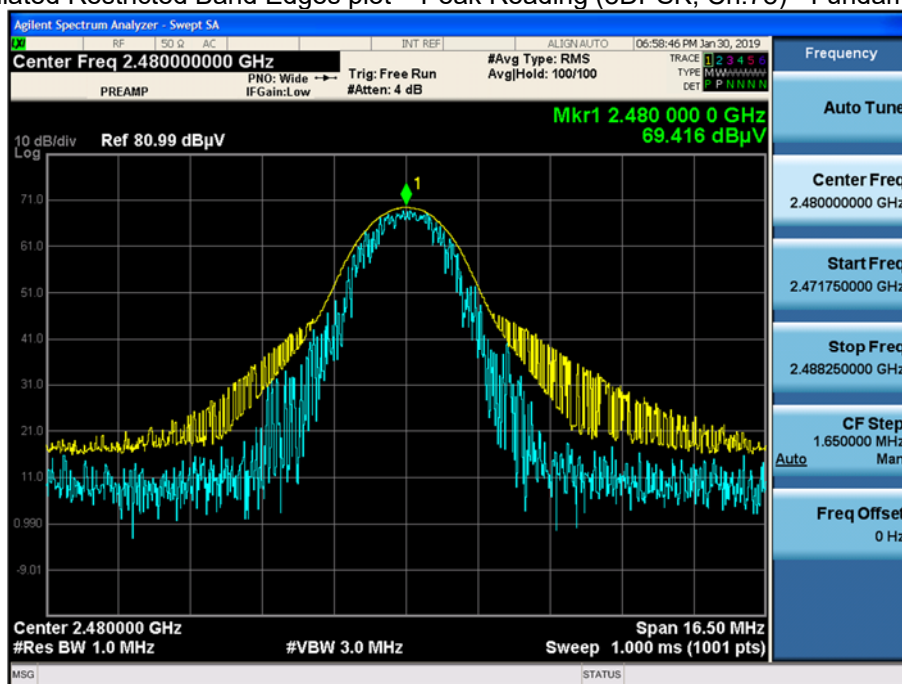
Radiated Restricted Band Edges plot – Peak Reading (GFSK, Ch.78)



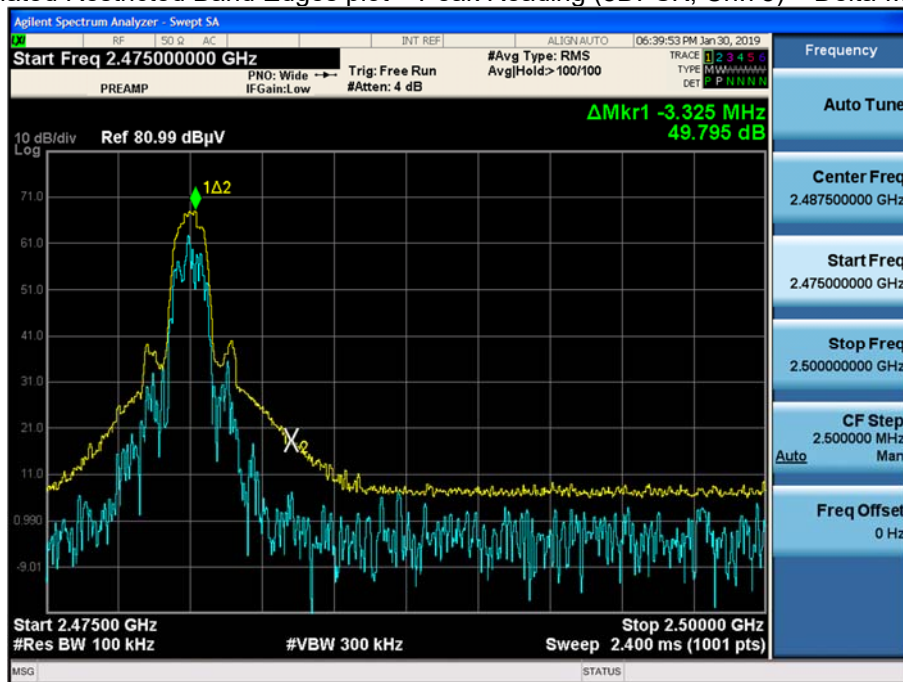
Radiated Restricted Band Edges plot – Average Reading (8DPSK, Ch.78)



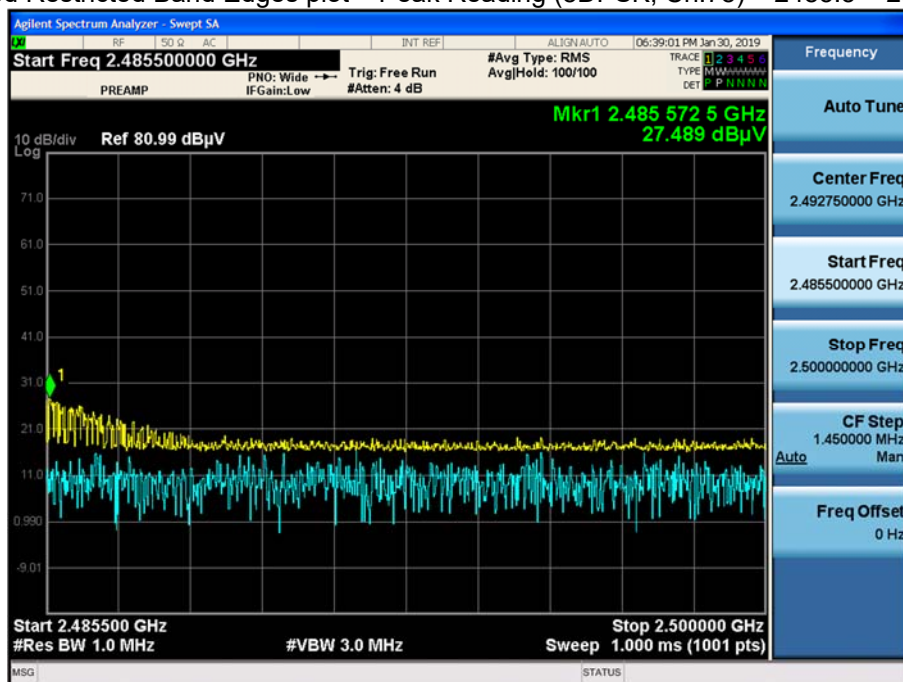
Radiated Restricted Band Edges plot – Peak Reading (8DPSK, Ch.78) - Fundamental



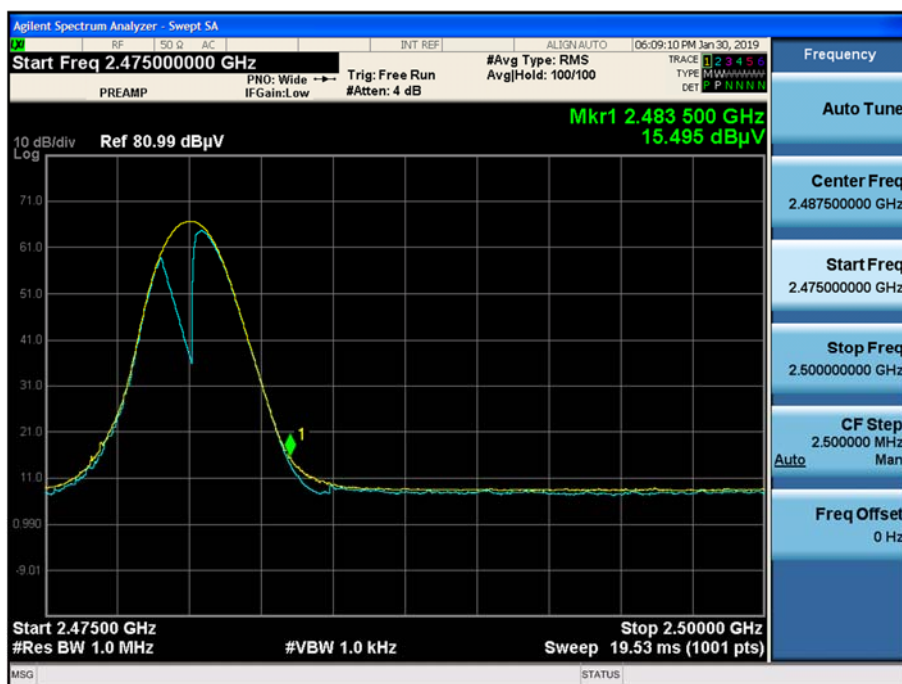
Radiated Restricted Band Edges plot – Peak Reading (8DPSK, Ch.78) – Delta-Marker



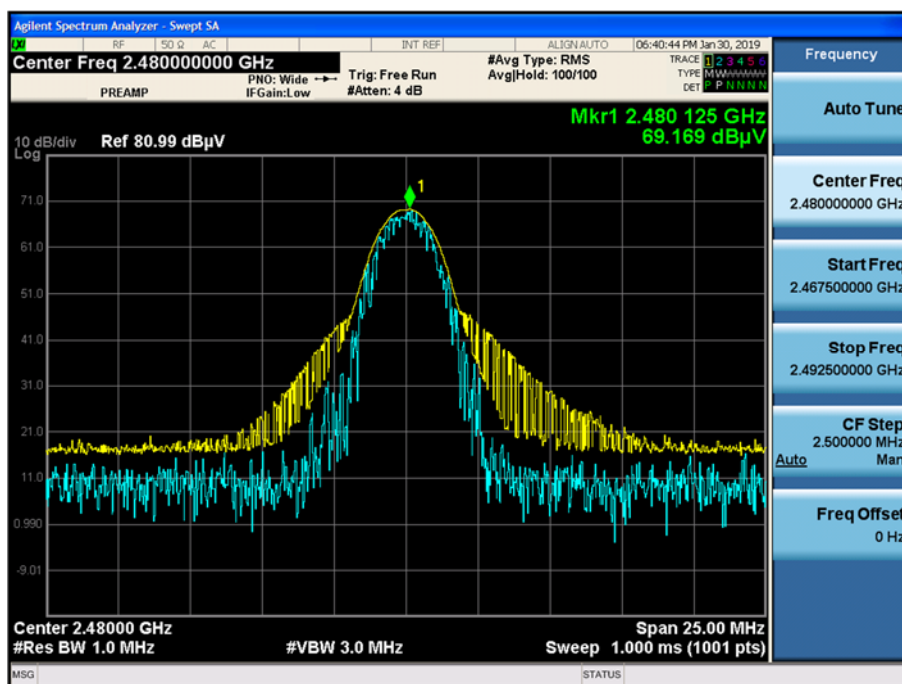
Radiated Restricted Band Edges plot – Peak Reading (8DPSK, Ch.78) – 2485.5 ~ 2500 MHz



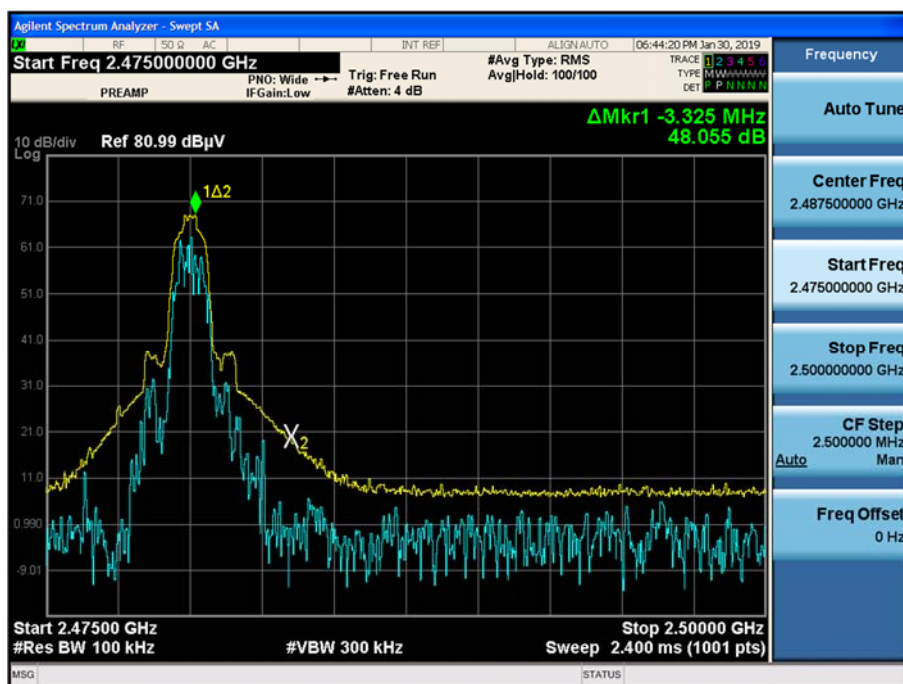
Radiated Restricted Band Edges plot – Average Reading ($\pi/4$ DQPSK, Ch.78)



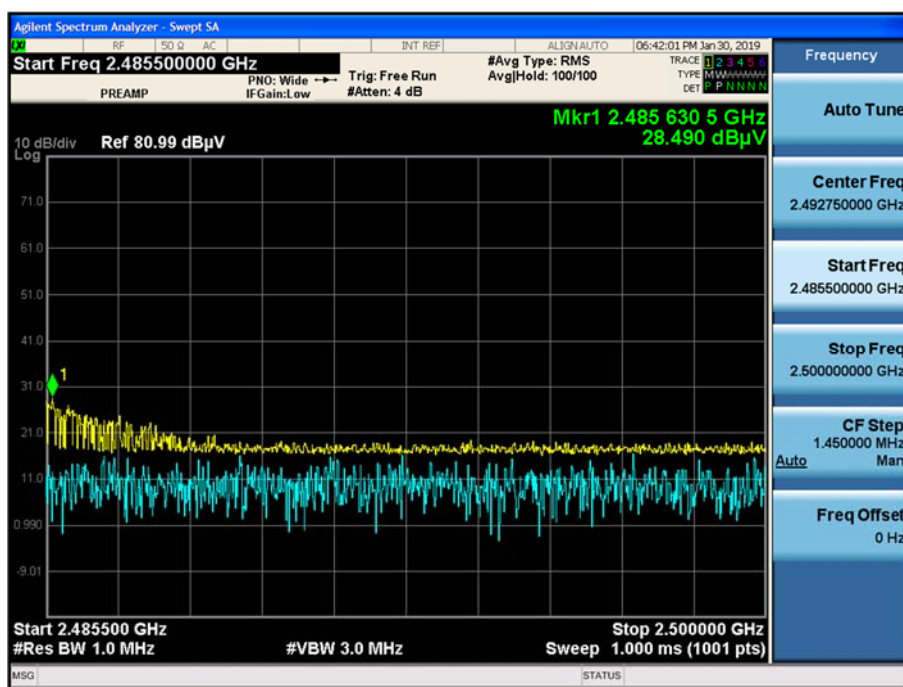
Radiated Restricted Band Edges plot – Peak Reading ($\pi/4$ DQPSK, Ch.78) - Fundamental



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



Radiated Restricted Band Edges plot – Peak Reading ($\pi/4$ DQPSK, Ch.78) – 2485.5 ~ 2500 MHz



Note:

Plot of worst case are only reported.

10.7 POWERLINE CONDUCTED EMISSIONS

Conducted Emissions (Line 1)

Test

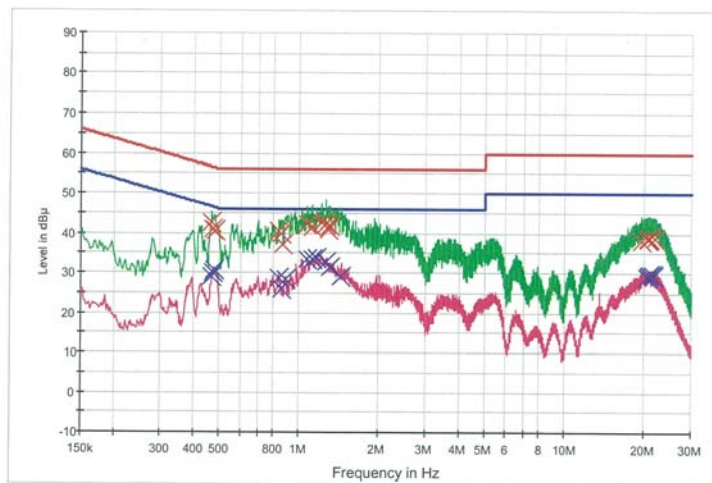
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HCT TEST Report

Common Information

EUT: SM-T515
Manufacturer: SAMSUNG
Test Site: SHIELD ROOM
Operating Conditions: BT L1

FCC CLASS B_Exten Cable



— FCC CLASS B_QP — FCC CLASS B_AV — Preview Result 1-PK+
— Preview Result 2-AVG — Final Result 1-QPK — Final Result 2-CAV

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.468000	42.5	9.000	Off	L1	9.8	14.0	56.5
0.474000	41.0	9.000	Off	L1	9.8	15.4	56.4
0.482000	40.5	9.000	Off	L1	9.8	15.8	56.3
0.840000	40.7	9.000	Off	L1	9.8	15.3	56.0
0.856000	39.7	9.000	Off	L1	9.8	16.3	56.0
0.864000	37.0	9.000	Off	L1	9.8	19.0	56.0
1.070000	42.1	9.000	Off	L1	9.8	13.9	56.0
1.118000	41.5	9.000	Off	L1	9.8	14.5	56.0
1.212000	42.6	9.000	Off	L1	9.8	13.4	56.0
1.260000	42.4	9.000	Off	L1	9.9	13.6	56.0
1.290000	41.0	9.000	Off	L1	9.9	15.0	56.0
1.304000	41.8	9.000	Off	L1	9.9	14.2	56.0
19.490000	38.3	9.000	Off	L1	10.6	21.7	60.0
20.560000	38.6	9.000	Off	L1	10.6	21.4	60.0
20.654000	38.8	9.000	Off	L1	10.6	21.2	60.0
20.846000	38.7	9.000	Off	L1	10.6	21.3	60.0
20.938000	39.0	9.000	Off	L1	10.6	21.0	60.0
21.820000	38.8	9.000	Off	L1	10.7	21.2	60.0

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Test

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Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.466000	28.9	9.000	Off	L1	9.8	17.7	46.6
0.474000	30.1	9.000	Off	L1	9.8	16.4	46.4
0.478000	30.7	9.000	Off	L1	9.8	15.7	46.4
0.840000	28.8	9.000	Off	L1	9.8	17.2	46.0
0.856000	25.8	9.000	Off	L1	9.8	20.2	46.0
0.884000	28.5	9.000	Off	L1	9.8	17.5	46.0
1.074000	33.4	9.000	Off	L1	9.8	12.6	46.0
1.118000	33.3	9.000	Off	L1	9.8	12.7	46.0
1.166000	33.6	9.000	Off	L1	9.8	12.4	46.0
1.260000	32.8	9.000	Off	L1	9.9	13.2	46.0
1.304000	31.3	9.000	Off	L1	9.9	14.7	46.0
1.432000	29.0	9.000	Off	L1	9.9	17.0	46.0
20.378000	29.0	9.000	Off	L1	10.6	21.0	50.0
20.560000	29.4	9.000	Off	L1	10.6	20.6	50.0
20.938000	29.8	9.000	Off	L1	10.6	20.2	50.0
21.308000	29.5	9.000	Off	L1	10.6	20.5	50.0
21.536000	29.2	9.000	Off	L1	10.6	20.8	50.0
21.546000	29.2	9.000	Off	L1	10.6	20.8	50.0

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Conducted Emissions (Line 2)

Test

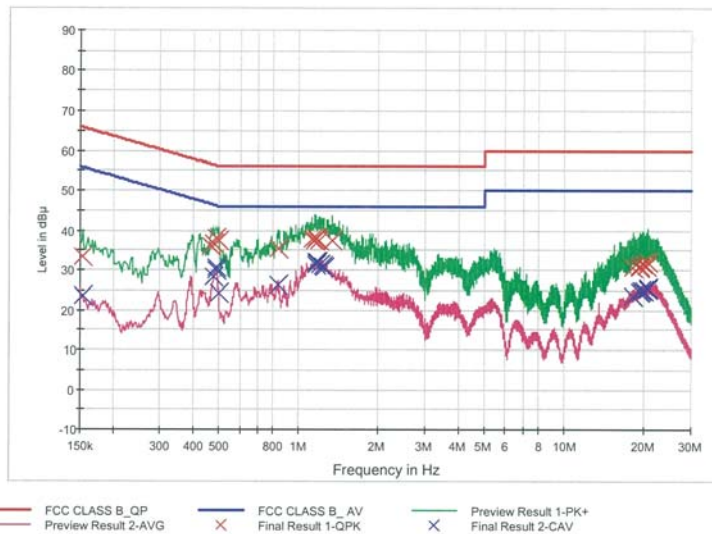
1 / 2

HCT TEST Report

Common Information

EUT: SM-T515
Manufacturer: SAMSUNG
Test Site: SHIELD ROOM
Operating Conditions: BT N

FCC CLASS B_Exten Cable



Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.154000	33.2	9.000	Off	N	9.8	32.5	65.8
0.468000	36.2	9.000	Off	N	9.9	20.3	56.5
0.476000	36.9	9.000	Off	N	9.9	19.5	56.4
0.490000	38.1	9.000	Off	N	9.9	18.1	56.2
0.498000	37.6	9.000	Off	N	9.9	18.5	56.0
0.834000	35.5	9.000	Off	N	10.0	20.5	56.0
1.122000	37.6	9.000	Off	N	10.0	18.4	56.0
1.154000	37.3	9.000	Off	N	10.0	18.7	56.0
1.160000	38.1	9.000	Off	N	10.0	17.9	56.0
1.166000	37.9	9.000	Off	N	10.0	18.1	56.0
1.194000	37.6	9.000	Off	N	10.0	18.4	56.0
1.338000	37.3	9.000	Off	N	10.1	18.7	56.0
18.046000	30.5	9.000	Off	N	10.8	29.5	60.0
19.158000	30.8	9.000	Off	N	10.8	29.2	60.0
19.262000	30.9	9.000	Off	N	10.8	29.1	60.0
19.706000	31.6	9.000	Off	N	10.9	28.4	60.0
20.334000	31.2	9.000	Off	N	10.9	28.8	60.0
20.732000	31.9	9.000	Off	N	10.9	28.1	60.0

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Test

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Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.154000	23.4	9.000	Off	N	9.8	32.4	55.8
0.478000	28.2	9.000	Off	N	9.9	18.2	46.4
0.486000	30.8	9.000	Off	N	9.9	15.4	46.2
0.490000	30.0	9.000	Off	N	9.9	16.2	46.2
0.498000	24.1	9.000	Off	N	9.9	21.9	46.0
0.834000	26.3	9.000	Off	N	10.0	19.7	46.0
1.160000	31.4	9.000	Off	N	10.0	14.6	46.0
1.164000	31.9	9.000	Off	N	10.0	14.1	46.0
1.176000	31.9	9.000	Off	N	10.0	14.1	46.0
1.198000	31.3	9.000	Off	N	10.0	14.7	46.0
1.238000	31.0	9.000	Off	N	10.0	15.0	46.0
1.246000	30.7	9.000	Off	N	10.0	15.3	46.0
18.148000	23.6	9.000	Off	N	10.8	26.4	50.0
19.262000	24.7	9.000	Off	N	10.8	25.3	50.0
19.356000	24.9	9.000	Off	N	10.9	25.1	50.0
19.910000	25.0	9.000	Off	N	10.9	25.0	50.0
20.590000	25.2	9.000	Off	N	10.9	24.8	50.0
20.732000	25.6	9.000	Off	N	10.9	24.4	50.0

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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	MY51110085
Agilent	N9020A / Signal Analyzer	06/08/2018	Annual	MY52090906
Agilent	N9030A / Signal Analyzer	01/10/2019	Annual	MY49431210
Rohde & Schwarz	OSP 120 / Power Measurement Set	07/26/2018	Annual	101231
Agilent	N1911A / Power Meter	04/16/2018	Annual	MY45100523
Agilent	N1921A / Power Sensor	04/16/2018	Annual	MY52260025
Agilent	87300B / Directional Coupler	11/20/2018	Annual	3116A03621
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
Chang Woo Inc.	18N-20dB / Attenuator(20 dB)	05/09/2018	Annual	8
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:

- Equipment listed above that calibrated during the testing period was set for test after the calibration.
- 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	08/23/2018	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-FC037-P
2	HCT-RF-1902-FC038-P
3	HCT-RF-1902-FC039-P
4	HCT-RF-1902-FC040-P
5	HCT-RF-1902-FC041-P
6	HCT-RF-1902-FC042-P