

Test Plots (GFSK)

Dwell Time (CH.0)

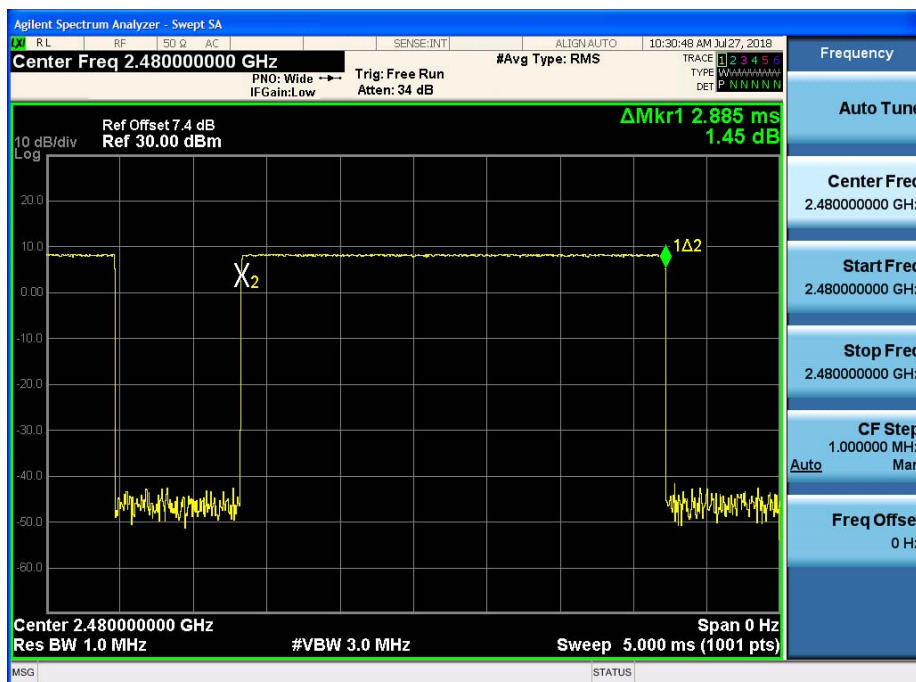


Test Plots (GFSK)

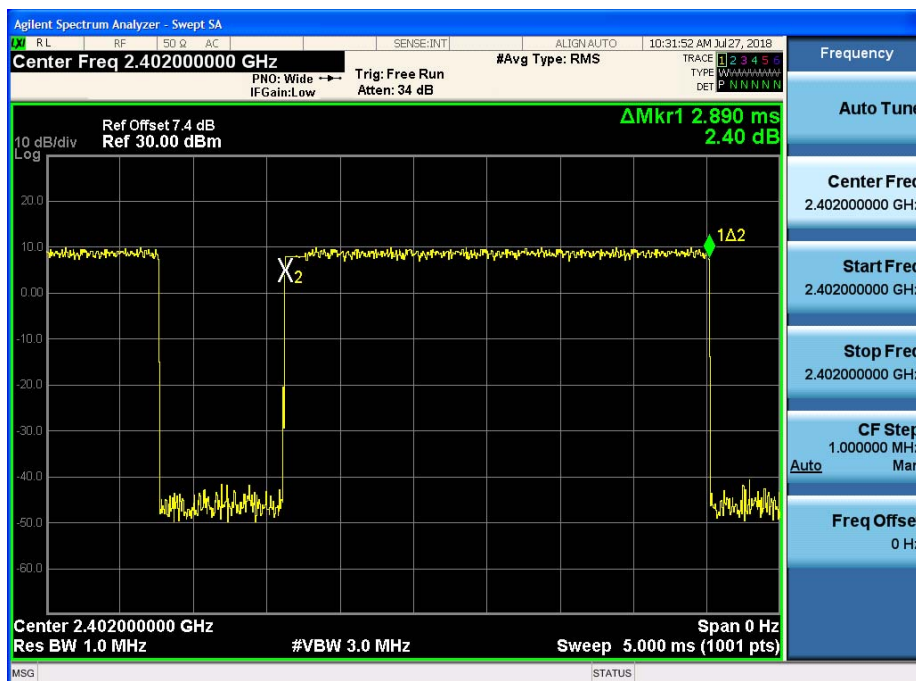
Dwell Time (CH.39)



Test Plots (GFSK)
Dwell Time (CH.78)

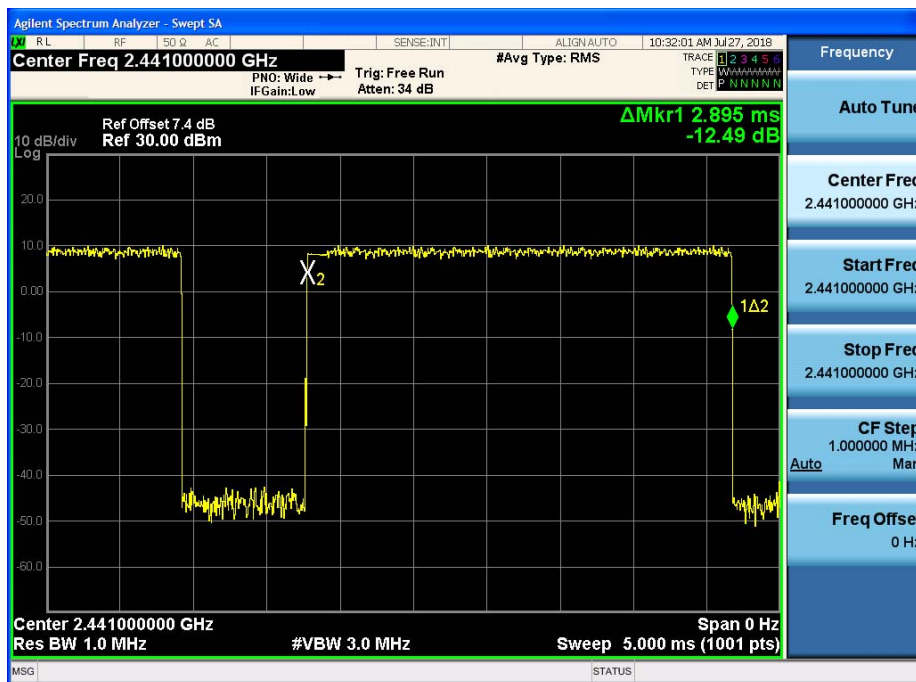


Test Plots (8DPSK)
Dwell Time (CH.0)



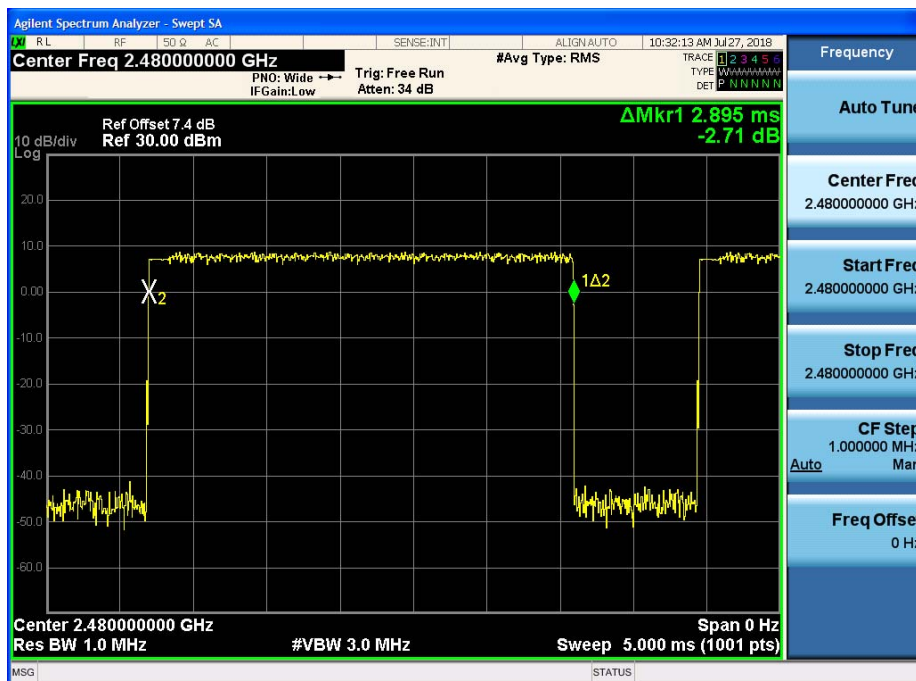
Test Plots (8DPSK)

Dwell Time (CH.39)



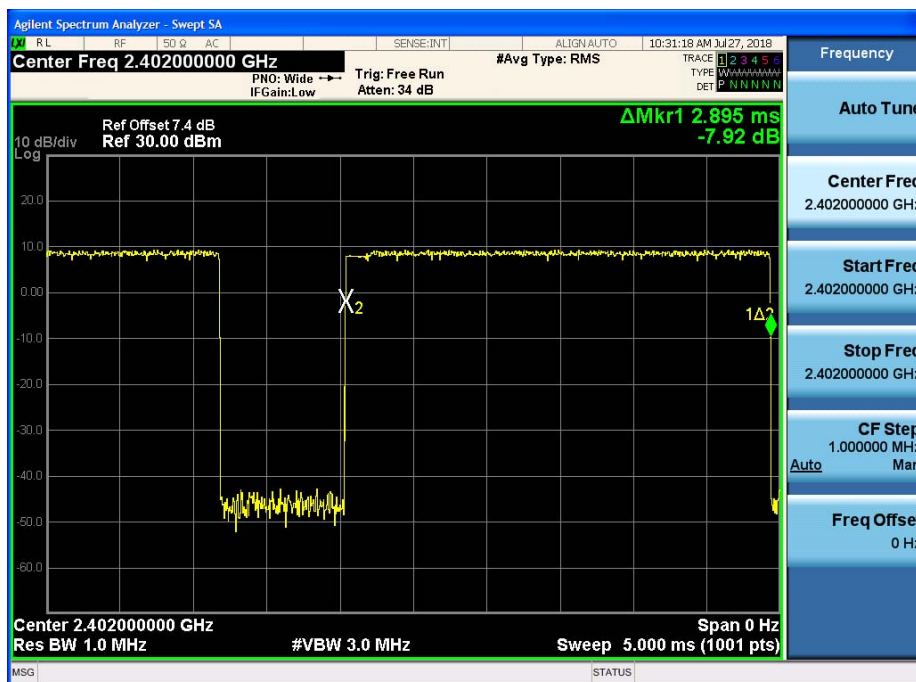
Test Plots (8DPSK)

Dwell Time (CH.78)

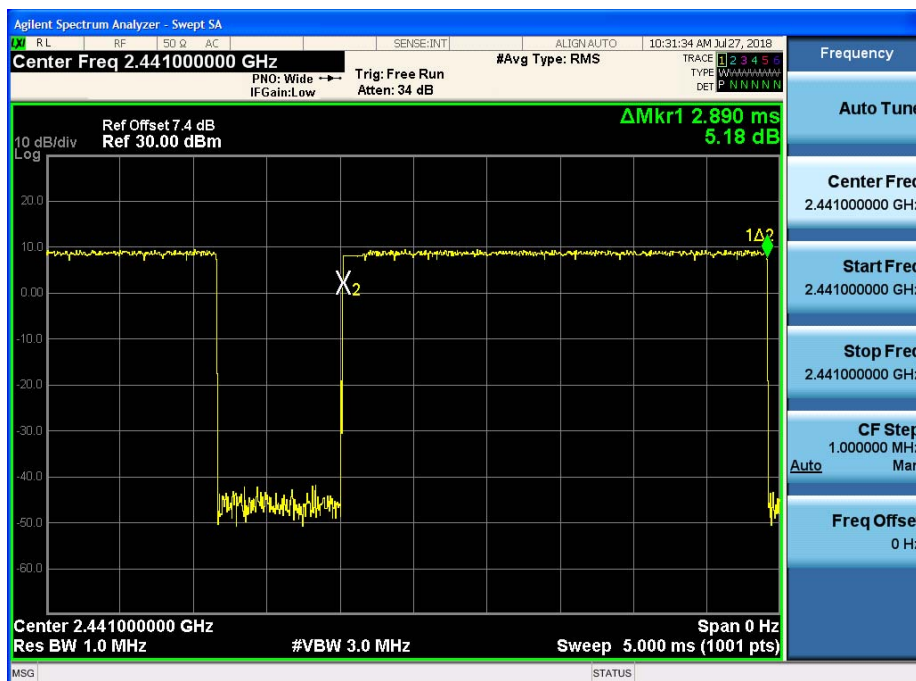


Test Plots ($\pi/4$ DQPSK)

Dwell Time (CH.0)

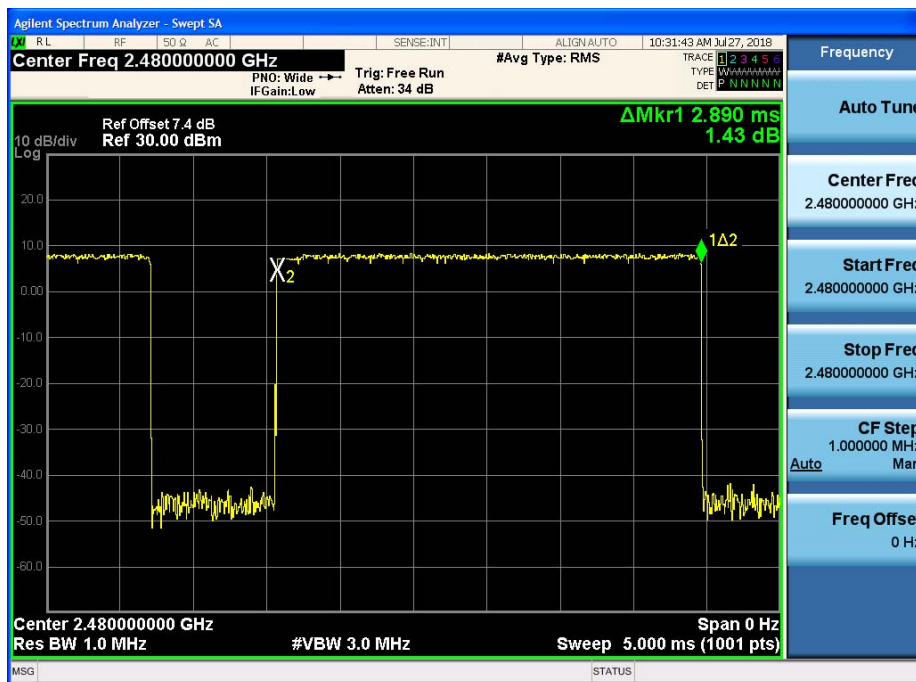

Test Plots ($\pi/4$ DQPSK)

Dwell Time (CH.39)



Test Plots ($\pi/4$ DQPSK)

Dwell Time (CH.78)



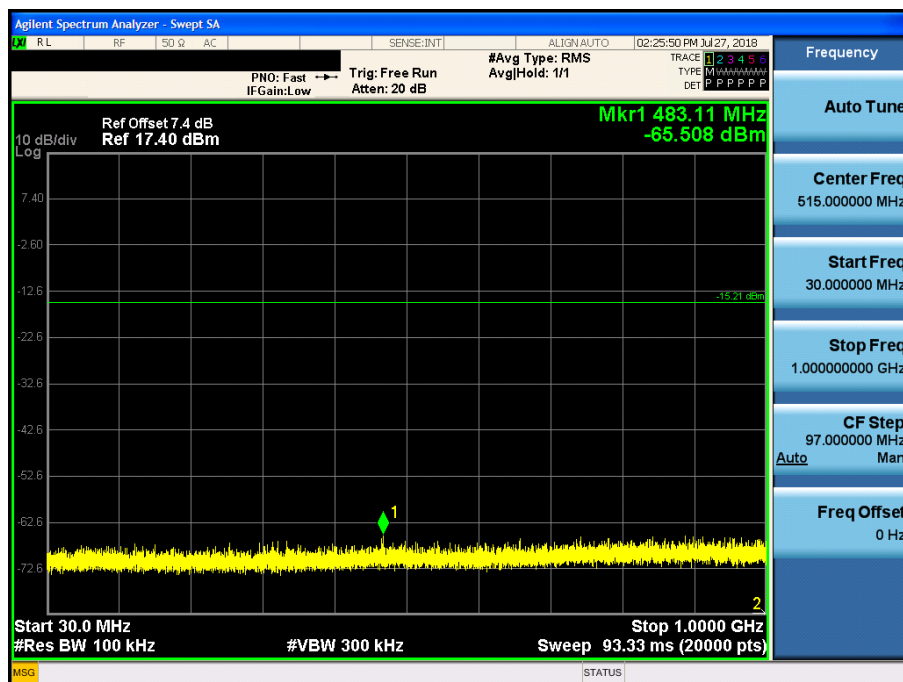
10.6 SPURIOUS EMISSIONS

10.6.1 CONDUCTED SPURIOUS EMISSIONS

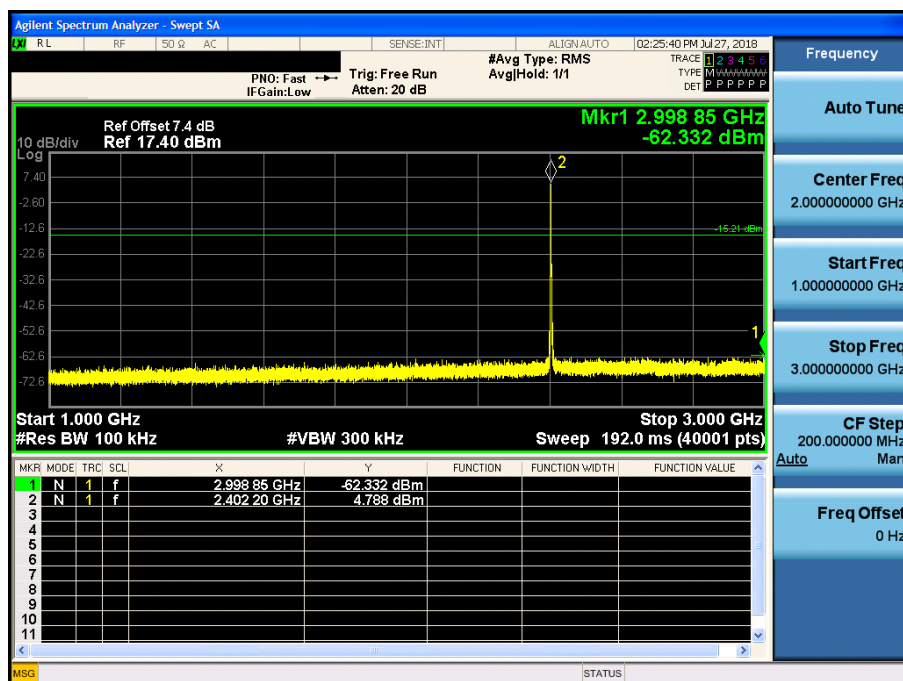
Test Result : please refer to the plot below.

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.0)

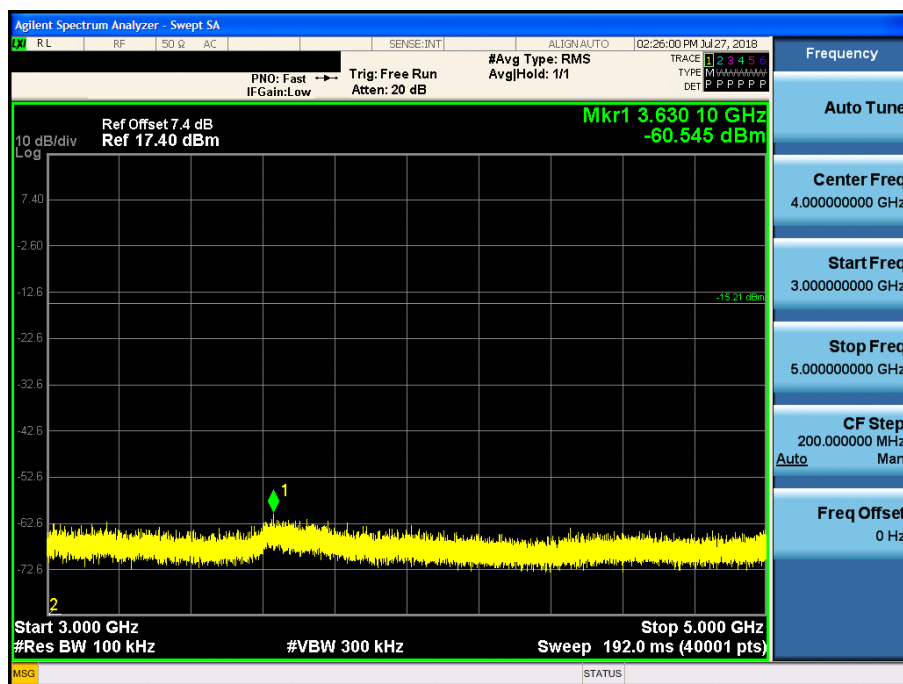


Test Plots (8DPSK)- 1 GHz – 3 GHz
Spurious Emission (CH.0)



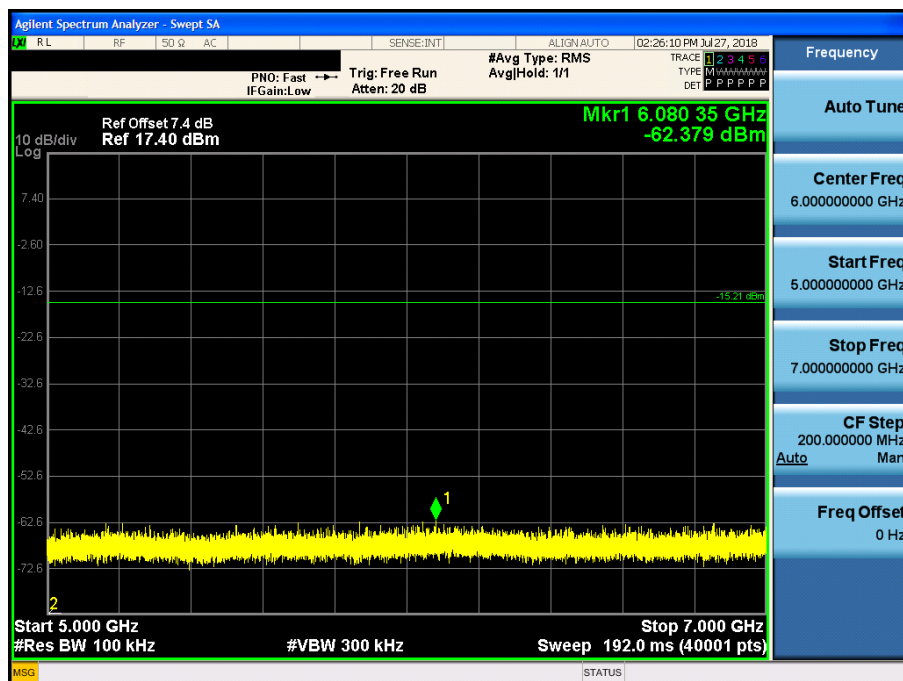
Test Plots(8DPSK)- 3 GHz - 5 GHz

Spurious Emission (CH.0)



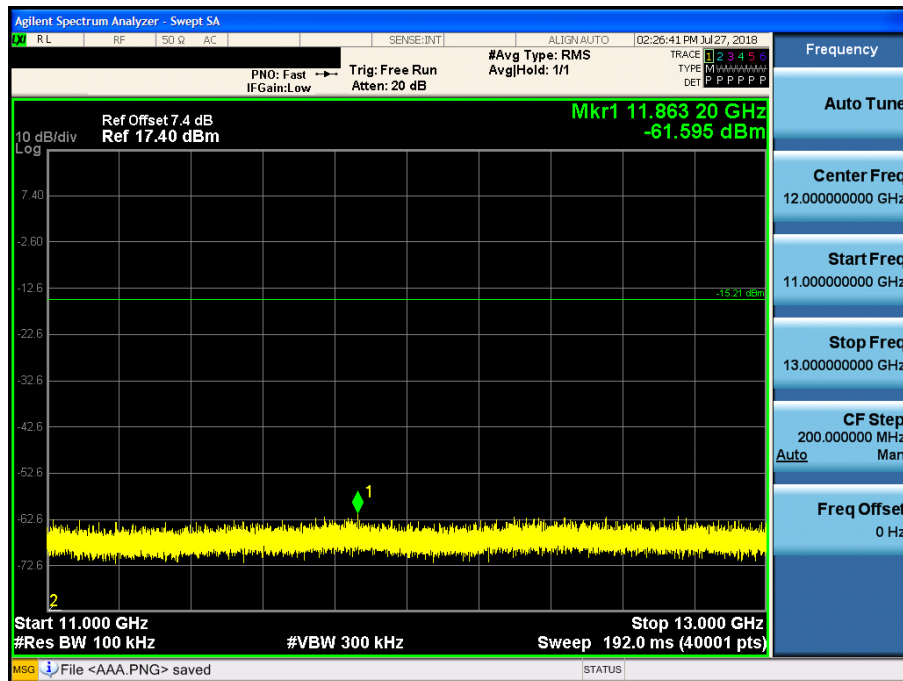
Test Plots (8DPSK)- 5 GHz - 7 GHz

Spurious Emission (CH.0)

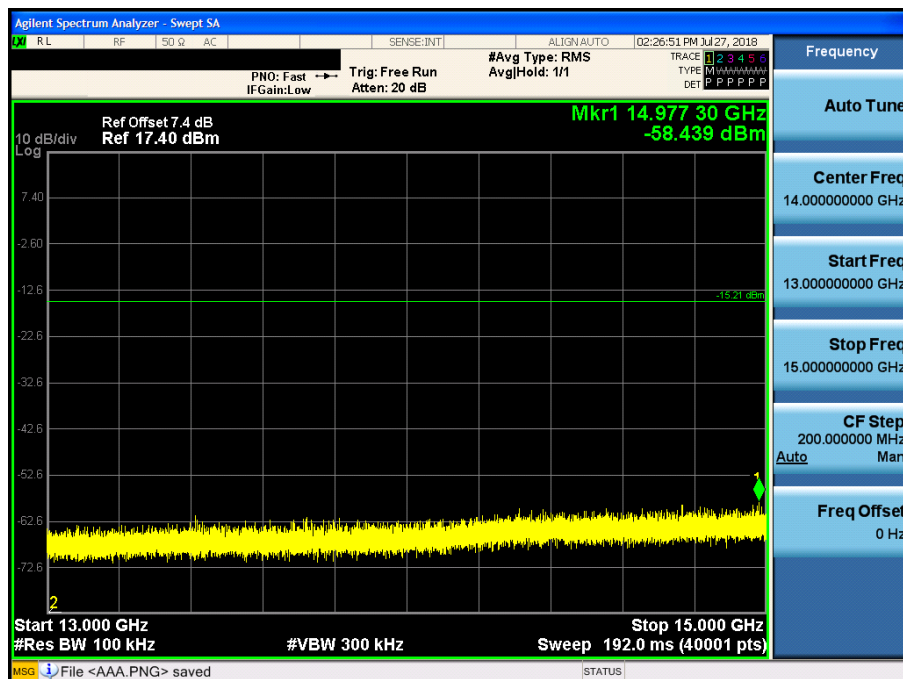


HCT CO.,LTD.

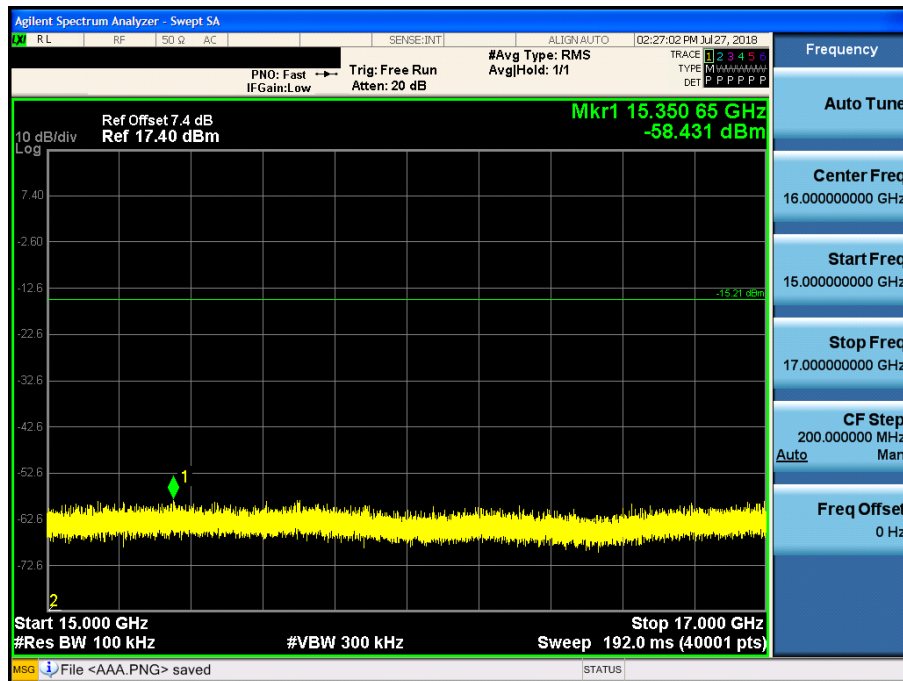
Test Plots(8DPSK) 11 GHz - 13 GHz
Spurious Emission (CH.0)



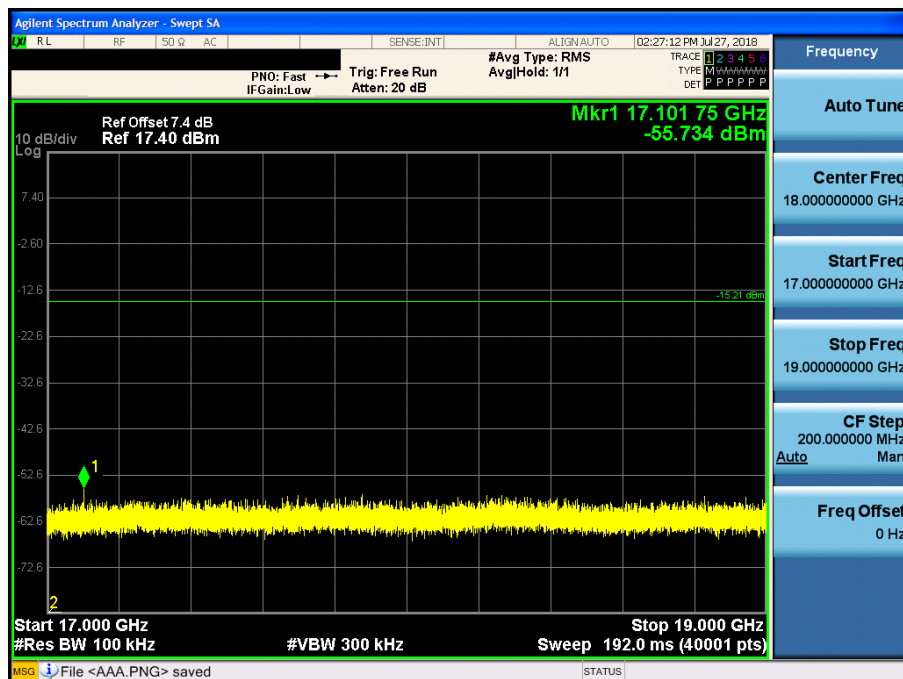
Test Plots (8DPSK)- 13 GHz – 15 GHz
Spurious Emission (CH.0)



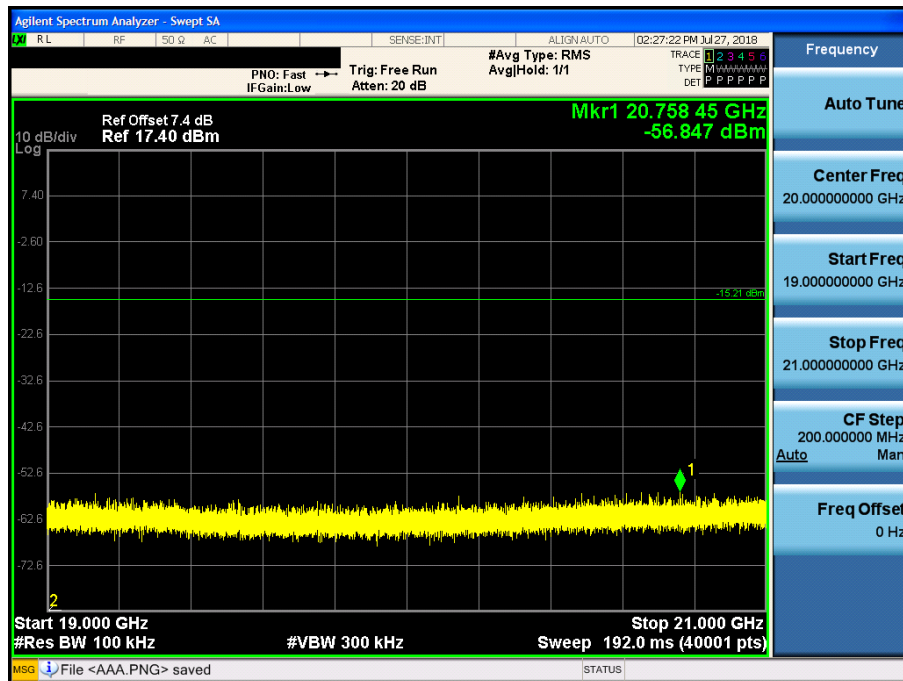
Test Plots(8DPSK)– 15 GHz - 17 GHz
Spurious Emission (CH.0)



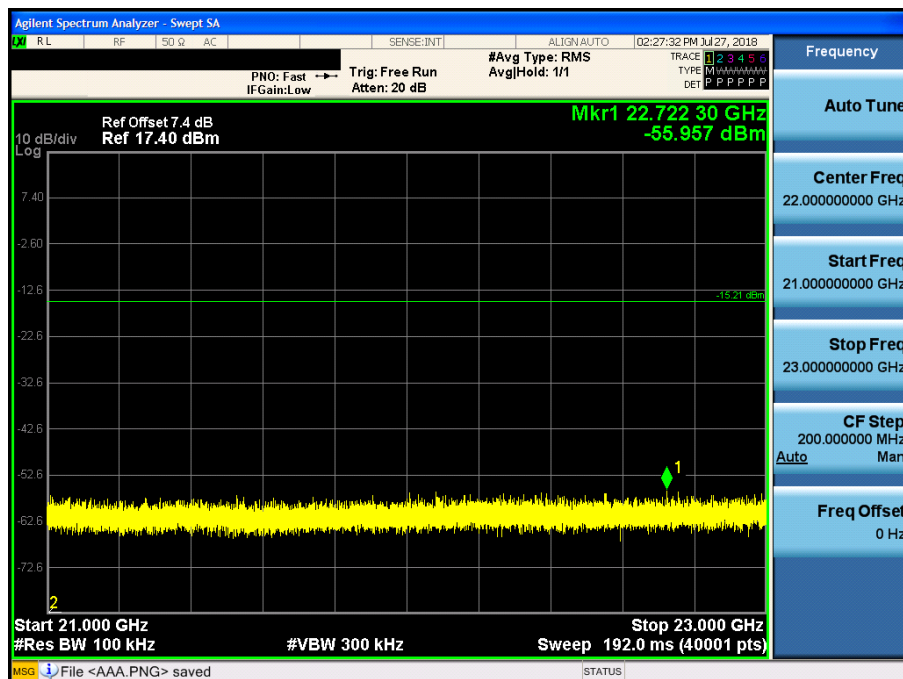
Test Plots(8DPSK)- 17 GHz - 19 GHz
Spurious Emission (CH.0)



Test Plots (8DPSK)- 19 GHz - 21 GHz
Spurious Emission (CH.0)

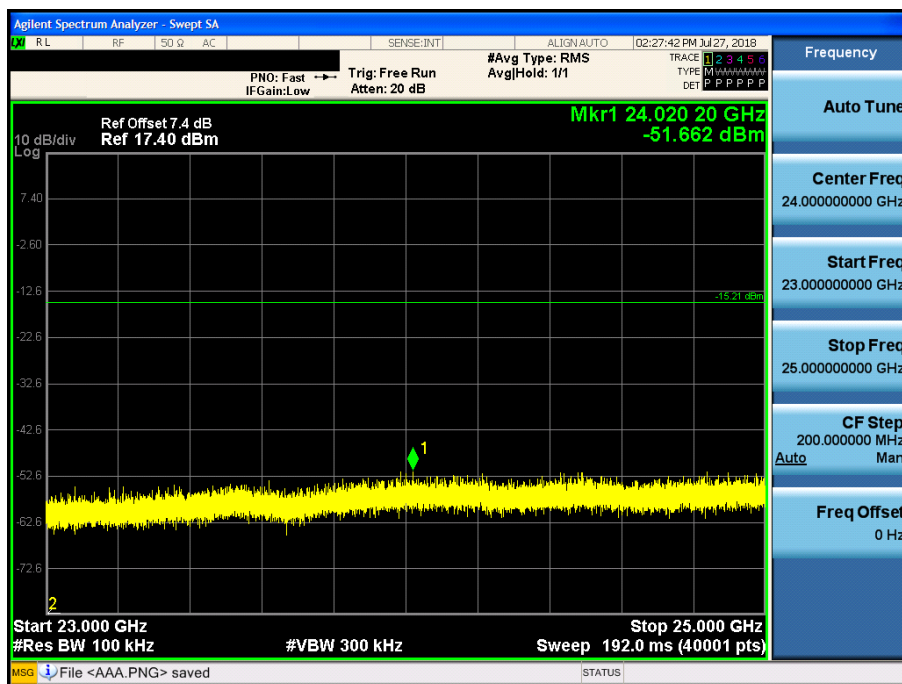


Test Plots (8DPSK)- 21 GHz - 23 GHz
Spurious Emission (CH.0)



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

Spurious Emission (CH.0)



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:

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

- Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.
- 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	48.81	0.62	V	49.43	73.98	24.55	PK
4804	35.21	0.62	V	35.83	53.98	18.15	AV
7206	45.41	10.05	V	55.46	73.98	18.52	PK
7206	32.05	10.05	V	42.1	53.98	11.88	AV
4804	49.36	0.62	H	49.98	73.98	24.00	PK
4804	35.66	0.62	H	36.28	53.98	17.70	AV
7206	45.56	10.05	H	55.61	73.98	18.37	PK
7206	32.29	10.05	H	42.34	53.98	11.64	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	47.88	0.62	V	48.50	73.98	25.48	PK
4804	34.12	0.62	V	34.74	53.98	19.24	AV
7206	45.88	10.05	V	55.93	73.98	18.05	PK
7206	32.05	10.05	V	42.1	53.98	11.88	AV
4804	48.79	0.62	H	49.41	73.98	24.57	PK
4804	35.53	0.62	H	36.15	53.98	17.83	AV
7206	46.08	10.05	H	56.13	73.98	17.85	PK
7206	32.23	10.05	H	42.28	53.98	11.70	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	48.51	0.62	V	49.13	73.98	24.85	PK
4804	34.99	0.62	V	35.61	53.98	18.37	AV
7206	45.12	10.05	V	55.17	73.98	18.81	PK
7206	31.85	10.05	V	41.9	53.98	12.08	AV
4804	48.65	0.62	H	49.27	73.98	24.71	PK
4804	35.58	0.62	H	36.2	53.98	17.78	AV
7206	45.84	10.05	H	55.89	73.98	18.09	PK
7206	32.24	10.05	H	42.29	53.98	11.69	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	48.84	1.61	V	50.45	73.98	23.53	PK
4882	35.54	1.61	V	37.15	53.98	16.83	AV
7323	45.52	10.02	V	55.54	73.98	18.44	PK
7323	32.50	10.02	V	42.52	53.98	11.46	AV
4882	48.94	1.61	H	50.55	73.98	23.43	PK
4882	35.68	1.61	H	37.29	53.98	16.69	AV
7323	45.98	10.02	H	56	73.98	17.98	PK
7323	32.54	10.02	H	42.56	53.98	11.42	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	48.85	1.61	V	50.46	73.98	23.52	PK
4882	35.44	1.61	V	37.05	53.98	16.93	AV
7323	46.00	10.02	V	56.02	73.98	17.96	PK
7323	31.52	10.02	V	41.54	53.98	12.44	AV
4882	48.88	1.61	H	50.49	73.98	23.49	PK
4882	35.49	1.61	H	37.1	53.98	16.88	AV
7323	46.40	10.02	H	56.42	73.98	17.56	PK
7323	32.54	10.02	H	42.56	53.98	11.42	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	48.21	1.61	V	49.82	73.98	24.16	PK
4882	35.41	1.61	V	37.02	53.98	16.96	AV
7323	46.02	10.02	V	56.04	73.98	17.94	PK
7323	31.81	10.02	V	41.83	53.98	12.15	AV
4882	48.67	1.61	H	50.28	73.98	23.70	PK
4882	35.51	1.61	H	37.12	53.98	16.86	AV
7323	46.04	10.02	H	56.06	73.98	17.92	PK
7323	32.44	10.02	H	42.46	53.98	11.52	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	48.81	1.69	V	50.50	73.98	23.48	PK
4960	35.81	1.69	V	37.50	53.98	16.48	AV
7440	45.21	11.43	V	56.64	73.98	17.34	PK
7440	31.05	11.43	V	42.48	53.98	11.50	AV
4960	49.49	1.69	H	51.18	73.98	22.80	PK
4960	36.17	1.69	H	37.86	53.98	16.12	AV
7440	45.59	11.43	H	57.02	73.98	16.96	PK
7440	32.41	11.43	H	43.84	53.98	10.14	AV

Operation Mode: CH High(8DPSK)

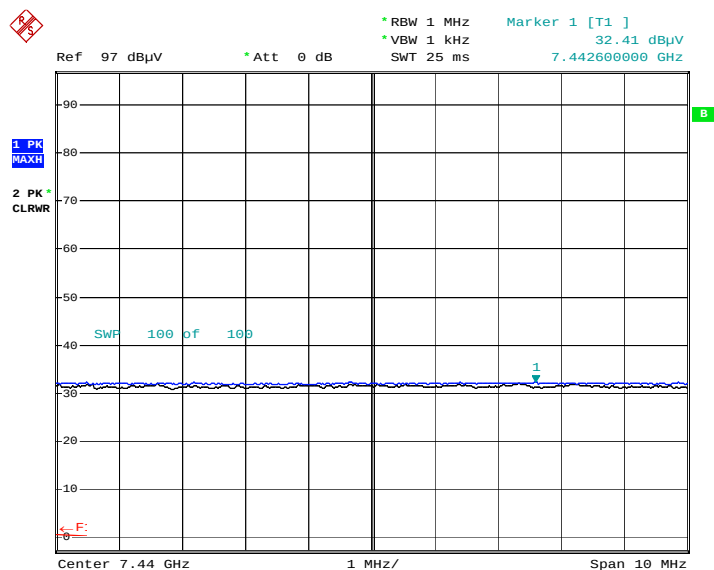
Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4960	48.92	1.69	V	50.61	73.98	23.37	PK
4960	36.12	1.69	V	37.81	53.98	16.17	AV
7440	45.38	11.43	V	56.81	73.98	17.17	PK
7440	32.04	11.43	V	43.47	53.98	10.51	AV
4960	49.50	1.69	H	51.19	73.98	22.79	PK
4960	36.26	1.69	H	37.95	53.98	16.03	AV
7440	45.61	11.43	H	57.04	73.98	16.94	PK
7440	32.12	11.43	H	43.55	53.98	10.43	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	49.41	1.69	V	51.10	73.98	22.88	PK
4960	36.02	1.69	V	37.71	53.98	16.27	AV
7440	45.33	11.43	V	56.76	73.98	17.22	PK
7440	32.04	11.43	V	43.47	53.98	10.51	AV
4960	49.50	1.69	H	51.19	73.98	22.79	PK
4960	36.35	1.69	H	38.04	53.98	15.94	AV
7440	45.68	11.43	H	57.11	73.98	16.87	PK
7440	32.11	11.43	H	43.54	53.98	10.44	AV

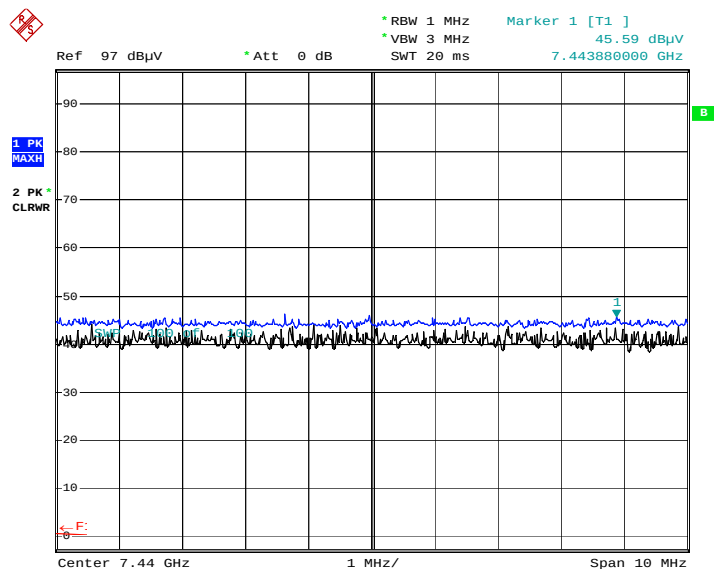
RESULT PLOTS (Worst case: Y-H)

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



Date: 7.AUG.2018 15:34:16

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



Date: 7.AUG.2018 15:35:30

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]	D.C.C.F [dB]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	49.23	1.14	H	0	50.37	73.98	23.61	PK
2390.0	38.11	1.14	H	-24.73	14.52	53.98	39.46	AV
2390.0	49.01	1.14	V	0	50.15	73.98	23.83	PK
2390.0	38.00	1.14	V	-24.73	14.41	53.98	39.57	AV
2483.5	60.73	0.78	H	0	61.51	73.98	12.47	PK
2483.5	57.83	0.78	H	-24.73	33.88	53.98	20.10	AV
2483.5	57.96	0.78	V	0	58.74	73.98	15.24	PK
2483.5	54.64	0.78	V	-24.73	30.69	53.98	23.29	AV

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

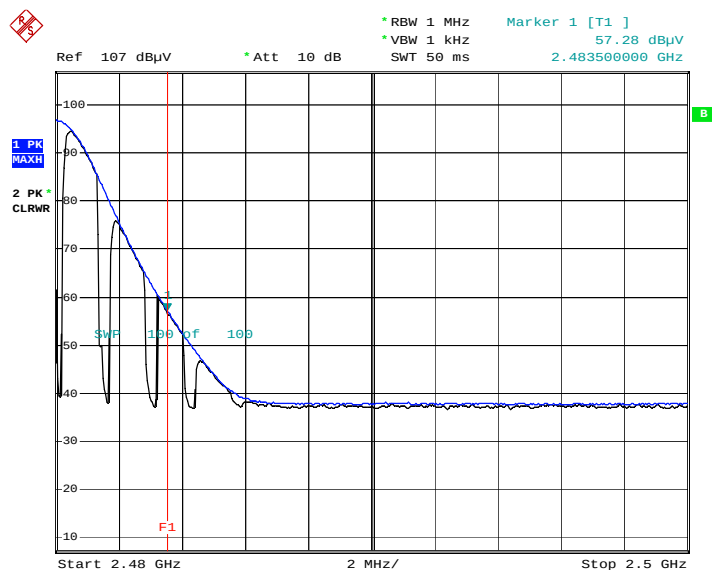
Frequency [MHz]	Reading [dBuV]	A.F + C.L + D.F [dB]	Pol. [H/V]	D.C.C.F [dB]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	51.20	1.14	H	0	52.34	73.98	21.64	PK
2390.0	38.01	1.14	H	-24.73	14.42	53.98	39.56	AV
2390.0	50.06	1.14	V	0	51.20	73.98	22.78	PK
2390.0	37.58	1.14	V	-24.73	13.99	53.98	39.99	AV
2483.5	62.60	0.78	H	0	63.38	73.98	10.60	PK
2483.5	57.36	0.78	H	-24.73	33.41	53.98	20.57	AV
2483.5	61.05	0.78	V	0	61.83	73.98	12.15	PK
2483.5	56.81	0.78	V	-24.73	32.86	53.98	21.12	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]	D.C.C.F [dB]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	48.83	1.14	H	0	49.97	73.98	24.01	PK
2390.0	37.95	1.14	H	-24.73	14.36	53.98	39.62	AV
2390.0	47.85	1.14	V	0	48.99	73.98	24.99	PK
2390.0	36.81	1.14	V	-24.73	13.22	53.98	40.76	AV
2483.5	63.11	0.78	H	0	63.89	73.98	10.09	PK
2483.5	57.28	0.78	H	-24.73	33.33	53.98	20.65	AV
2483.5	62.87	0.78	V	0	63.65	73.98	10.33	PK
2483.5	57.21	0.78	V	-24.73	33.26	53.98	20.72	AV

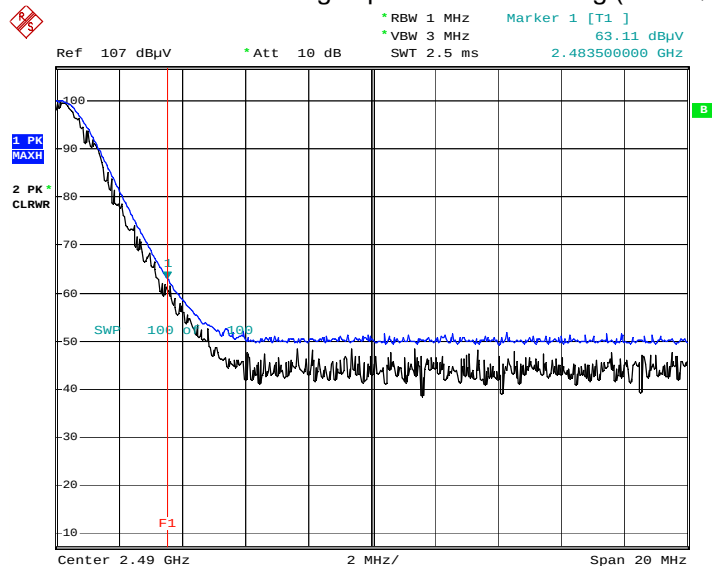
RESULT PLOTS (Worst case : X-H)

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



Date: 6.AUG.2018 18:07:47

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



Date: 6.AUG.2018 18:07:19

Note:

Plot of worst case are only reported.

10.7 POWERLINE CONDUCTED EMISSIONS

Conducted Emissions (Line 1)

BT_N

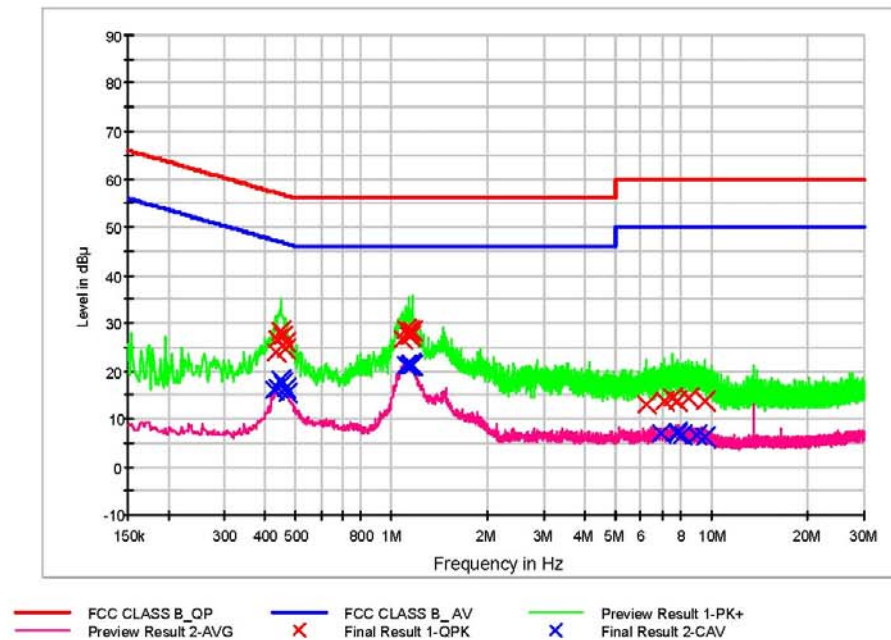
1 / 2

HCT TEST Report

Common Information

EUT: SC-02L
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)
0.434000	24.1	9.000	Off	N	9.7	33.1	57.2
0.442000	26.5	9.000	Off	N	9.7	30.5	57.0
0.450000	28.4	9.000	Off	N	9.7	28.5	56.9
0.458000	27.4	9.000	Off	N	9.7	29.3	56.7
0.464000	26.0	9.000	Off	N	9.7	30.6	56.6
0.468000	24.7	9.000	Off	N	9.7	31.8	56.5
1.078000	26.7	9.000	Off	N	9.8	29.3	56.0
1.114000	28.5	9.000	Off	N	9.8	27.5	56.0
1.134000	27.3	9.000	Off	N	9.8	28.7	56.0
1.138000	28.3	9.000	Off	N	9.8	27.7	56.0
1.144000	27.3	9.000	Off	N	9.8	28.7	56.0
1.160000	28.3	9.000	Off	N	9.8	27.7	56.0
6.246000	13.1	9.000	Off	N	10.1	46.9	60.0
7.104000	13.7	9.000	Off	N	10.1	46.3	60.0
7.568000	14.3	9.000	Off	N	10.2	45.7	60.0
7.832000	13.6	9.000	Off	N	10.2	46.4	60.0
8.438000	14.3	9.000	Off	N	10.2	45.7	60.0
9.482000	13.7	9.000	Off	N	10.2	46.3	60.0

2018-08-09

오전 9:54:47

BT_N

2 / 2

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.432000	16.0	9.000	Off	N	9.7	31.2	47.2
0.440000	16.5	9.000	Off	N	9.7	30.6	47.1
0.450000	18.0	9.000	Off	N	9.7	28.9	46.9
0.458000	17.5	9.000	Off	N	9.7	29.2	46.7
0.466000	16.4	9.000	Off	N	9.7	30.2	46.6
0.472000	15.5	9.000	Off	N	9.7	30.9	46.5
1.114000	21.3	9.000	Off	N	9.8	24.7	46.0
1.138000	21.2	9.000	Off	N	9.8	24.8	46.0
1.144000	21.5	9.000	Off	N	9.8	24.5	46.0
1.150000	21.6	9.000	Off	N	9.8	24.4	46.0
1.154000	21.2	9.000	Off	N	9.8	24.8	46.0
1.162000	21.2	9.000	Off	N	9.8	24.8	46.0
6.932000	6.9	9.000	Off	N	10.1	43.1	50.0
7.820000	7.0	9.000	Off	N	10.2	43.0	50.0
7.832000	7.1	9.000	Off	N	10.2	42.9	50.0
8.074000	6.5	9.000	Off	N	10.2	43.5	50.0
8.952000	6.4	9.000	Off	N	10.2	43.6	50.0
9.482000	6.2	9.000	Off	N	10.2	43.8	50.0

2018-08-09

오전 9:54:47

Conducted Emissions (Line 2)

BT_L1

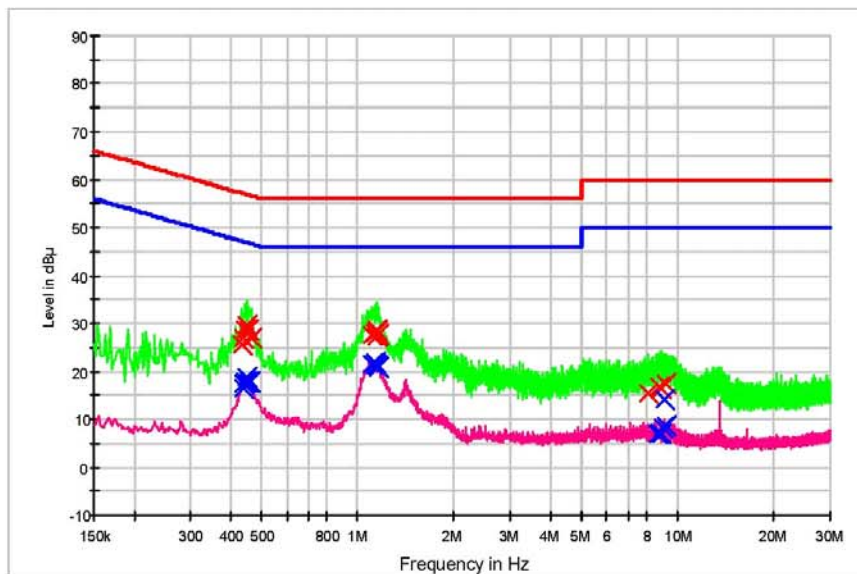
1 / 2

HCT TEST Report

Common Information

EUT: SC-02L
Manufacturer: SAMSUNG
Test Site: SHIELD ROOM
Operating Conditions: BT_L1

FCC CLASS B_Exten Cable



— FCC CLASS B_OP — 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 (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.434000	25.5	9.000	Off	L1	9.7	31.6	57.2
0.438000	26.8	9.000	Off	L1	9.7	30.3	57.1
0.446000	28.6	9.000	Off	L1	9.7	28.4	56.9
0.452000	29.8	9.000	Off	L1	9.7	27.1	56.8
0.456000	28.7	9.000	Off	L1	9.7	28.0	56.8
0.464000	26.9	9.000	Off	L1	9.7	29.7	56.6
1.114000	27.5	9.000	Off	L1	9.8	28.5	56.0
1.136000	28.1	9.000	Off	L1	9.8	27.9	56.0
1.142000	28.5	9.000	Off	L1	9.8	27.5	56.0
1.150000	28.3	9.000	Off	L1	9.8	27.7	56.0
1.154000	27.4	9.000	Off	L1	9.8	28.6	56.0
1.158000	27.5	9.000	Off	L1	9.8	28.5	56.0
8.124000	15.4	9.000	Off	L1	10.1	44.6	60.0
8.794000	16.8	9.000	Off	L1	10.1	43.2	60.0
8.824000	16.6	9.000	Off	L1	10.1	43.4	60.0
8.854000	16.6	9.000	Off	L1	10.1	43.4	60.0
9.228000	17.4	9.000	Off	L1	10.1	42.6	60.0
9.246000	17.5	9.000	Off	L1	10.1	42.5	60.0

2018-08-09

오전 10:04:28

BT_L1

2 / 2

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.438000	16.6	9.000	Off	L1	9.7	30.5	47.1
0.442000	17.3	9.000	Off	L1	9.7	29.7	47.0
0.446000	17.8	9.000	Off	L1	9.7	29.1	46.9
0.452000	18.9	9.000	Off	L1	9.7	27.9	46.8
0.456000	17.9	9.000	Off	L1	9.7	28.9	46.8
0.462000	17.9	9.000	Off	L1	9.7	28.7	46.7
1.114000	21.4	9.000	Off	L1	9.8	24.6	46.0
1.132000	21.4	9.000	Off	L1	9.8	24.6	46.0
1.136000	21.8	9.000	Off	L1	9.8	24.2	46.0
1.144000	21.1	9.000	Off	L1	9.8	24.9	46.0
1.148000	21.3	9.000	Off	L1	9.8	24.7	46.0
1.158000	20.9	9.000	Off	L1	9.8	25.1	46.0
8.688000	7.1	9.000	Off	L1	10.1	42.9	50.0
8.824000	7.1	9.000	Off	L1	10.1	42.9	50.0
8.854000	7.0	9.000	Off	L1	10.1	43.0	50.0
8.984000	8.4	9.000	Off	L1	10.1	41.6	50.0
9.106000	13.9	9.000	Off	L1	10.1	36.1	50.0
9.228000	8.6	9.000	Off	L1	10.1	41.4	50.0

2018-08-09

오전 10:04:28

11 LIST OF TEST EQUIPMENT

Conducted Test

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Rohde & Schwarz	ENV216 / LISN	12/20/2017	Annual	102245
Rohde & Schwarz	ESCI / Test Receiver	06/27/2018	Annual	100033
ESPAC	SU-642 / Temperature Chamber	03/30/2018	Annual	0093008124
Agilent	N9020A / Signal Analyzer	06/08/2018	Annual	MY51110085
Agilent	N9030A / Signal Analyzer	11/22/2017	Annual	MY49431210
Agilent	N1911A / Power Meter	04/16/2018	Annual	MY45100523
Agilent	N1921A / Power Sensor	04/16/2018	Annual	MY52260025
Agilent	87300B / Directional Coupler	11/20/2017	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
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	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	09/06/2017	Annual	100688
Rohde & Schwarz	FSV40-N / Spectrum Analyzer	09/27/2017	Annual	101068-SZ
Wainwright Instruments	WHK3.0/18G-10EF / High Pass Filter	06/07/2018	Annual	8
Wainwright Instruments	WHFX7.0/18G-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	01/03/2018	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	01/10/2018	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-1808-FC026-P
2	HCT-RF-1808-FC027-P
3	HCT-RF-1808-FC028-P
4	HCT-RF-1808-FC029-P
5	HCT-RF-1808-FC030-P
6	HCT-RF-1808-FC031-P
7	HCT-RF-1808-FC032-P