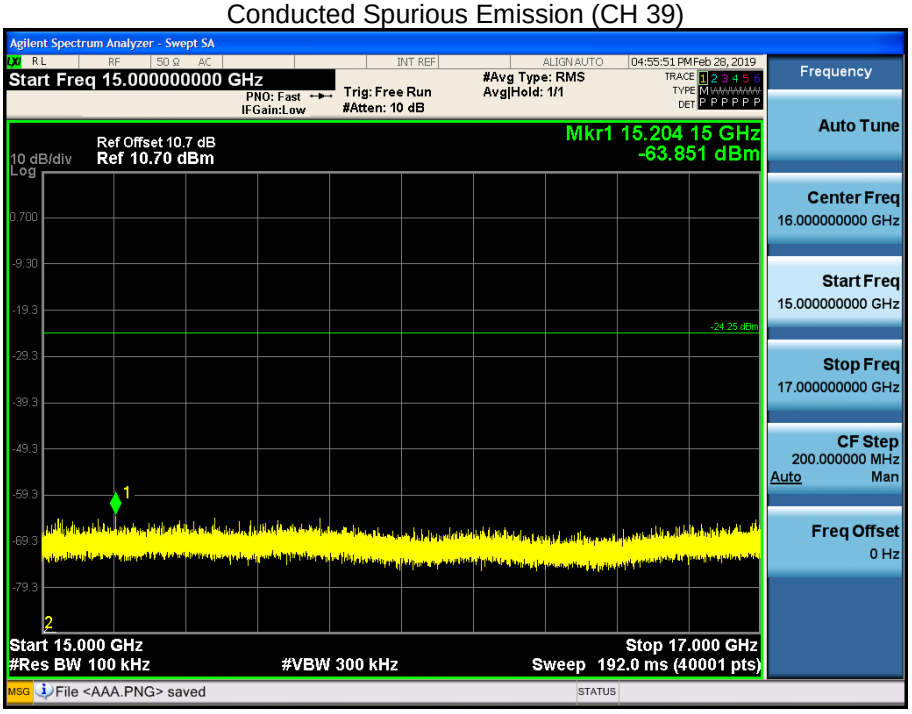
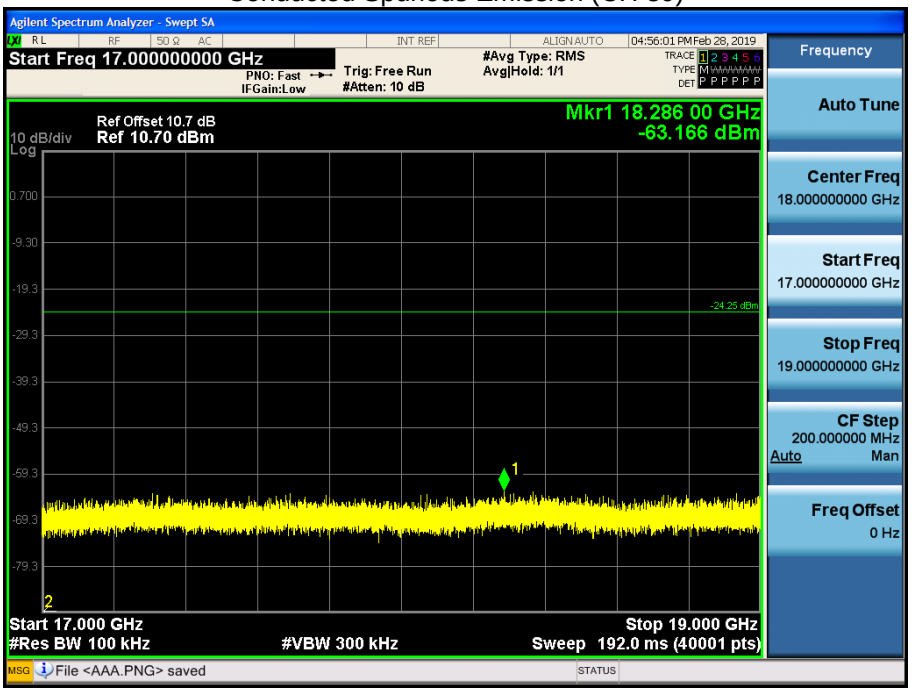
15 GHz ~ 17 GHz

Conducted Spurious Emission (CH 39)



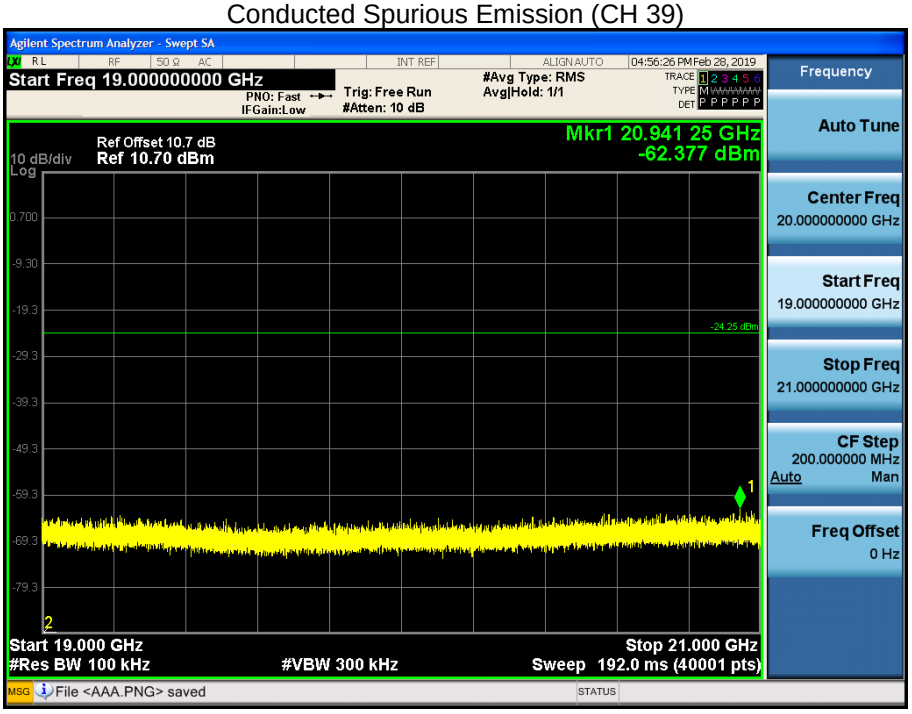
17 GHz ~ 19 GHz

Conducted Spurious Emission (CH 39)



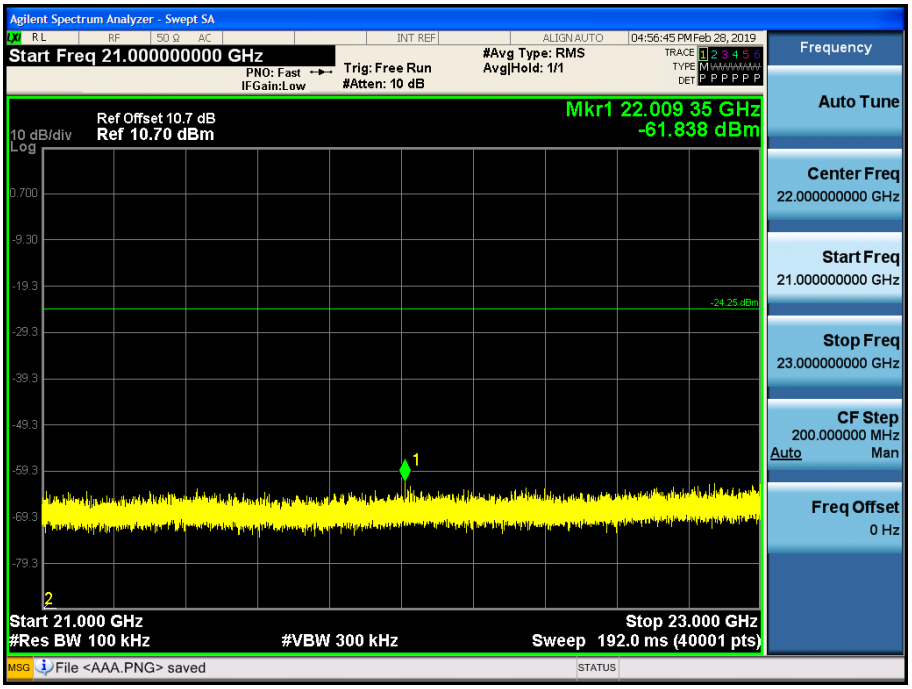
19 GHz ~ 21 GHz

Conducted Spurious Emission (CH 39)



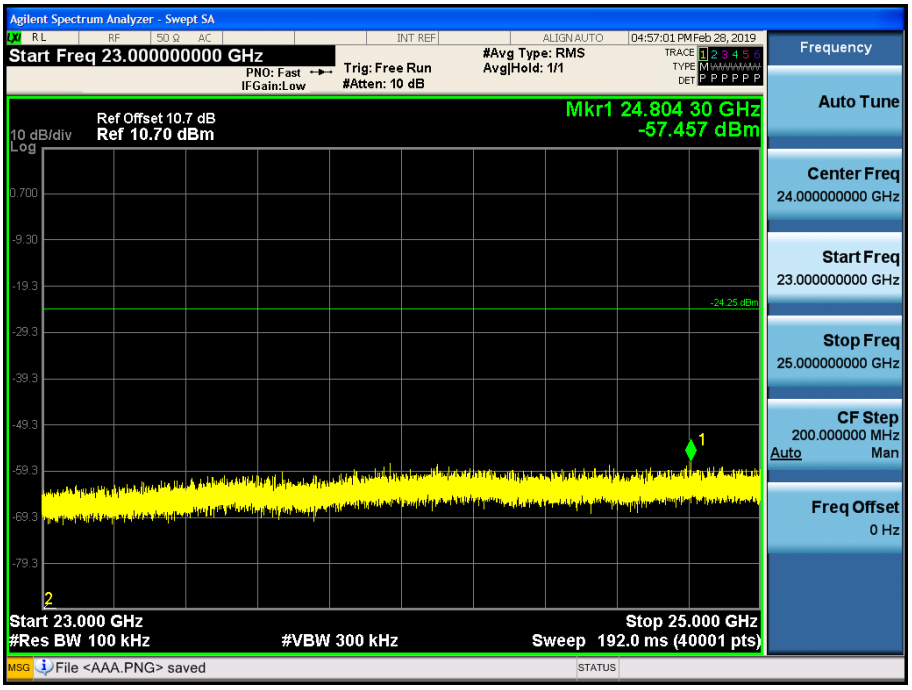
21 GHz ~ 23 GHz

Conducted Spurious Emission (CH 39)



23 GHz ~ 25 GHz

Conducted Spurious Emission (CH 39)



9.6 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*log (specific distance / 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.

Frequency Range : Above 1 GHz

Mode : 1M Bit/s

Operation Mode: CH Low

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4804	49.88	0	1.83	V	51.71	73.98	22.27	PK
4804	37.69	2.03	1.83	V	41.55	53.98	12.43	AV
7206	49.34	0	9.65	V	58.99	73.98	14.99	PK
7206	37.05	2.03	9.65	V	48.73	53.98	5.25	AV
4804	50.75	0	1.83	H	52.58	73.98	21.40	PK
4804	38.52	2.03	1.83	H	42.38	53.98	11.60	AV
7206	50.16	0	9.65	H	59.81	73.98	14.17	PK
7206	37.89	2.03	9.65	H	49.57	53.98	4.41	AV

Operation Mode: CH Mid

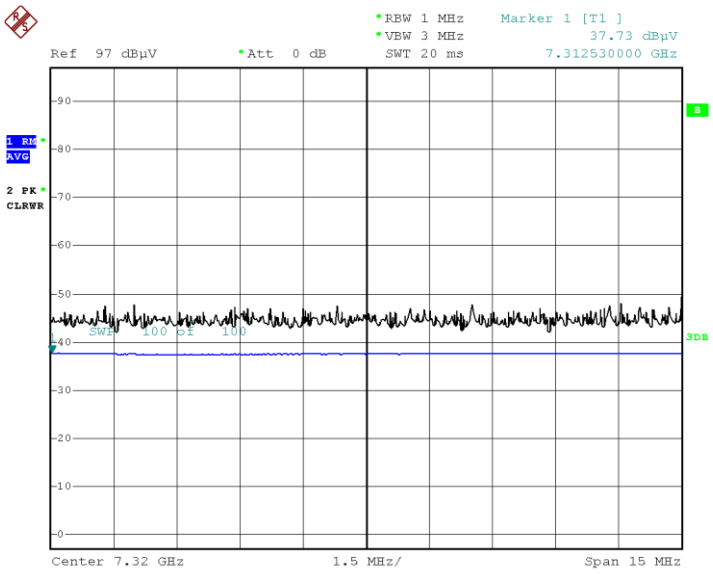
Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4880	49.71	0	2.34	V	52.05	73.98	21.93	PK
4880	37.94	2.03	2.34	V	42.31	53.98	11.67	AV
7320	49.27	0	9.98	V	59.25	73.98	14.73	PK
7320	36.48	2.03	9.98	V	48.49	53.98	5.49	AV
4880	51.06	0	2.34	H	53.4	73.98	20.58	PK
4880	38.55	2.03	2.34	H	42.92	53.98	11.06	AV
7320	50.25	0	9.98	H	60.23	73.98	13.75	PK
7320	37.73	2.03	9.98	H	49.74	53.98	4.24	AV

Operation Mode: CH High

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4960	49.67	0	2.26	V	51.93	73.98	22.05	PK
4960	37.46	2.03	2.26	V	41.75	53.98	12.23	AV
7440	49.61	0	9.78	V	59.39	73.98	14.59	PK
7440	36.88	2.03	9.78	V	48.69	53.98	5.29	AV
4960	50.44	0	2.26	H	52.7	73.98	21.28	PK
4960	38.48	2.03	2.26	H	42.77	53.98	11.21	AV
7440	49.66	0	9.78	H	59.44	73.98	14.54	PK
7440	37.49	2.03	9.78	H	49.3	53.98	4.68	AV

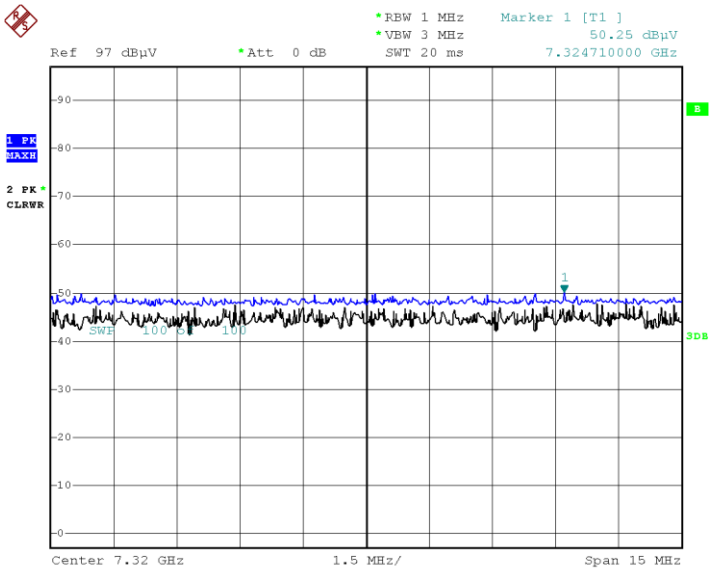
▣ 1M Bit/s Test Plots

Radiated Spurious Emissions plot – Average Reading (Ch.19 3rd Harmonic)



Date: 11.MAR.2019 23:16:23

Radiated Spurious Emissions plot – Peak Reading (Ch.19 3rd Harmonic)



Date: 11.MAR.2019 23:15:33

Note:

Plot of worst case are only reported.

9.7 RADIATED RESTRICTED BAND EDGES

Mode : 1M Bit/s

Operating Frequency 2402 MHz

Channel No. 0

Frequency [MHz]	Reading [dBuV/m]	Duty Cycle Factor [dB]	A.F.+C.L.+D.F. [dB]	Ant. Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	20.80	0.00	35.09	H	55.89	73.98	18.09	PK
2390.0	10.41	2.03	35.09	H	47.53	53.98	6.45	AV
2390.0	20.06	0.00	35.09	V	55.15	73.98	18.83	PK
2390.0	10.16	2.03	35.09	V	47.28	53.98	6.70	AV

Operating Frequency 2480 MHz

Channel No. 39

Frequency [MHz]	Reading [dBuV/m]	Duty Cycle Factor [dB]	A.F.+C.L.+D.F. [dB]	Ant. Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2483.5	23.11	0.00	35.11	H	58.22	73.98	15.76	PK
2483.5	10.30	2.03	35.11	H	47.44	53.98	6.54	AV
2483.5	22.87	0.00	35.11	V	57.98	73.98	16.00	PK
2483.5	10.12	2.03	35.11	V	47.26	53.98	6.72	AV

Mode : 2M Bit/s

Operating Frequency 2402 MHz

Channel No. 0

Frequency [MHz]	Reading [dBuV/m]	Duty Cycle Factor [dB]	A.F.+C.L.+D.F. [dB]	Ant. Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	20.13	0.00	35.09	H	55.22	73.98	18.77	PK
2390.0	9.95	4.82	35.09	H	49.86	53.98	4.12	AV
2390.0	19.59	0.00	35.09	V	54.68	73.98	19.30	PK
2390.0	9.91	4.82	35.09	V	49.82	53.98	4.16	AV

Operating Frequency 2480 MHz

Channel No. 39

Frequency [MHz]	Reading [dBuV/m]	Duty Cycle Factor [dB]	A.F.+C.L.+D.F. [dB]	Ant. Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2483.5	25.16	0.00	35.11	H	60.27	73.98	13.71	PK
2483.5	10.66	4.82	35.11	H	50.59	53.98	3.39	AV
2483.5	24.81	0.00	35.11	V	59.92	73.98	14.06	PK
2483.5	10.52	4.82	35.11	V	50.45	53.98	3.53	AV

Mode : 125K Bit/s

Operating Frequency 2402 MHz

Channel No. 0

Frequency [MHz]	Reading [dBuV/m]	Duty Cycle Factor [dB]	A.F.+C.L.+D.F. [dB]	Ant. Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	20.35	0.00	35.09	H	55.44	73.98	18.54	PK
2390.0	10.47	0.82	35.09	H	46.38	53.98	7.60	AV
2390.0	20.15	0.00	35.09	V	55.24	73.98	18.74	PK
2390.0	10.19	0.82	35.09	V	46.10	53.98	7.88	AV

Operating Frequency 2480 MHz

Channel No. 39

Frequency [MHz]	Reading [dBuV/m]	Duty Cycle Factor [dB]	A.F.+C.L.+D.F. [dB]	Ant. Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2483.5	21.22	0.00	35.11	H	56.33	73.98	17.66	PK
2483.5	10.14	0.82	35.11	H	46.07	53.98	7.91	AV
2483.5	20.35	0.00	35.11	V	55.46	73.98	18.52	PK
2483.5	10.06	0.82	35.11	V	45.99	53.98	7.99	AV

Mode : 500K Bit/s

Operating Frequency 2402 MHz

Channel No. 0

Frequency [MHz]	Reading [dBuV/m]	Duty Cycle Factor [dB]	A.F.+C.L.+D.F. [dB]	Ant. Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	20.26	0.00	35.09	H	55.35	73.98	18.63	PK
2390.0	10.14	2.44	35.09	H	47.67	53.98	6.31	AV
2390.0	19.85	0.00	35.09	V	54.94	73.98	19.04	PK
2390.0	9.81	2.44	35.09	V	47.34	53.98	6.64	AV

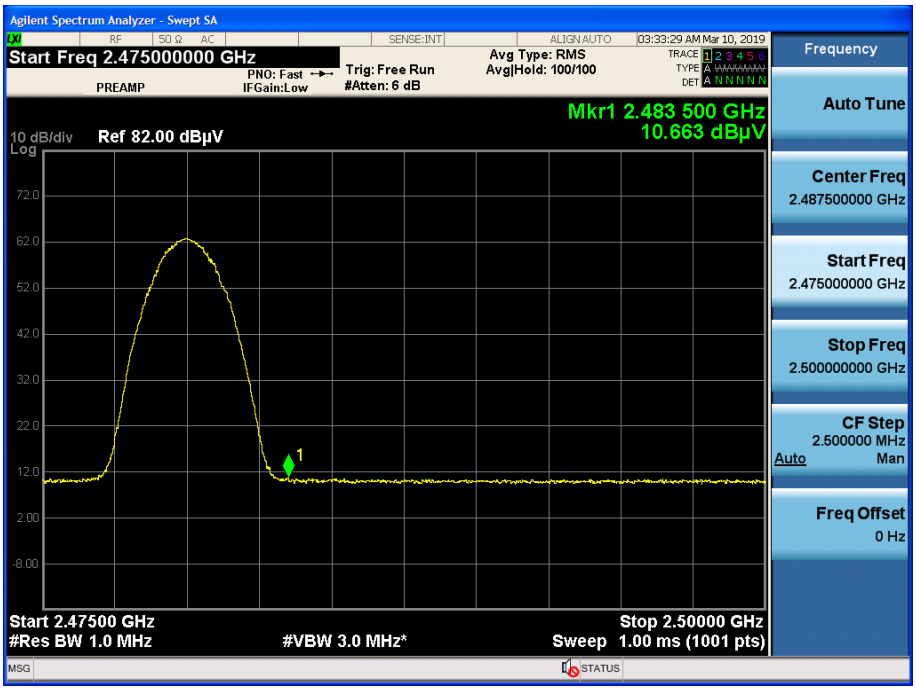
Operating Frequency 2480 MHz

Channel No. 39

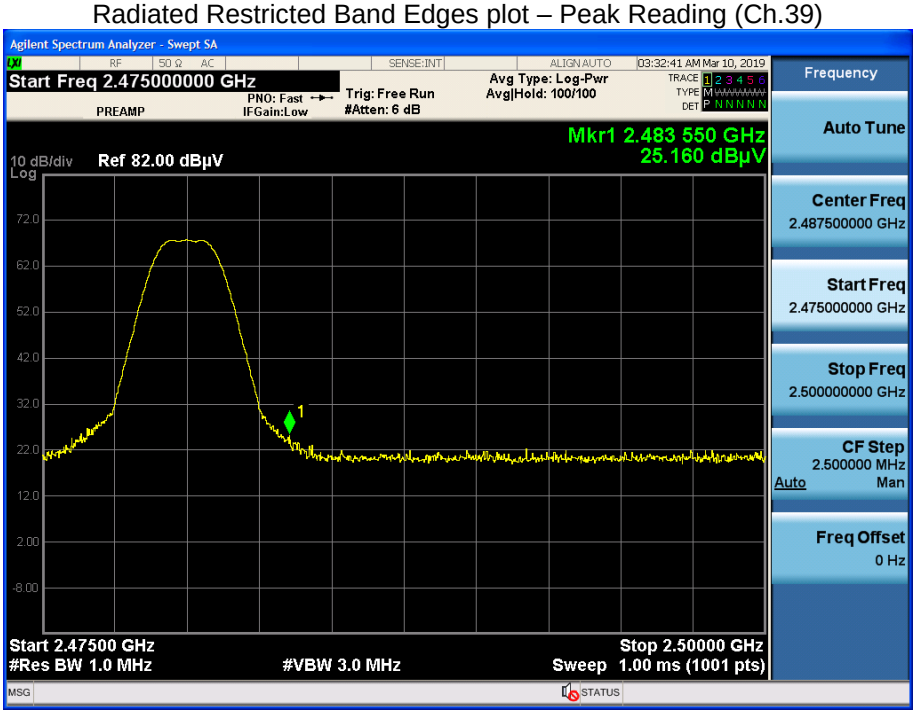
Frequency [MHz]	Reading [dBuV/m]	Duty Cycle Factor [dB]	A.F.+C.L.+D.F. [dB]	Ant. Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2483.5	22.52	0.00	35.11	H	57.63	73.98	16.35	PK
2483.5	10.23	2.44	35.11	H	47.78	53.98	6.20	AV
2483.5	21.74	0.00	35.11	V	56.85	73.98	17.13	PK
2483.5	10.19	2.44	35.11	V	47.74	53.98	6.24	AV

▣ Mode : 2M Bit/s Test Plots

Radiated Restricted Band Edges plot – Average Reading (Ch.39)



Radiated Restricted Band Edges plot – Peak Reading (Ch.39)



Note:

Plot of worst case are only reported.

9.8 POWERLINE CONDUCTED EMISSIONS

Conducted Emissions (Line 1)

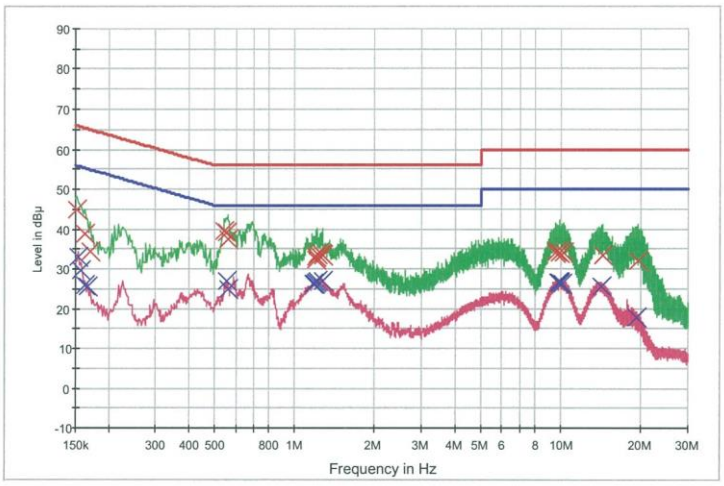
Test 1 / 2

HCT TEST Report

Common Information

EUT:	SM-T725
Manufacturer:	SAMSUNG
Test Site:	SHIELD ROOM
Operating Conditions:	BT_LE MODE L1

FCC CLASS B_Exten Cable



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.152000	45.0	9.000	Off	L1	9.7	20.9	65.9
0.162000	38.8	9.000	Off	L1	9.7	26.6	65.4
0.170000	34.4	9.000	Off	L1	9.7	30.6	65.0
0.546000	39.4	9.000	Off	L1	9.8	16.6	56.0
0.556000	39.1	9.000	Off	L1	9.8	16.9	56.0
0.562000	37.5	9.000	Off	L1	9.8	18.5	56.0
1.202000	32.9	9.000	Off	L1	9.8	23.1	56.0
1.210000	32.5	9.000	Off	L1	9.8	23.5	56.0
1.216000	33.8	9.000	Off	L1	9.8	22.2	56.0
1.220000	33.8	9.000	Off	L1	9.8	22.2	56.0
1.262000	33.7	9.000	Off	L1	9.9	22.3	56.0
1.270000	33.3	9.000	Off	L1	9.9	22.7	56.0
9.590000	34.2	9.000	Off	L1	10.2	25.8	60.0
9.686000	34.3	9.000	Off	L1	10.2	25.7	60.0
9.900000	34.2	9.000	Off	L1	10.2	25.8	60.0
10.204000	33.9	9.000	Off	L1	10.2	26.1	60.0
14.276000	33.3	9.000	Off	L1	10.4	26.8	60.0
19.506000	32.0	9.000	Off	L1	10.6	28.0	60.0

Test 2 / 2

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.154000	33.1	9.000	Off	L1	9.7	22.7	55.8
0.158000	29.6	9.000	Off	L1	9.7	26.0	55.6
0.162000	25.8	9.000	Off	L1	9.7	29.5	55.4
0.166000	25.5	9.000	Off	L1	9.7	29.6	55.2
0.554000	26.9	9.000	Off	L1	9.8	19.1	46.0
0.562000	25.1	9.000	Off	L1	9.8	20.9	46.0
1.174000	26.4	9.000	Off	L1	9.8	19.6	46.0
1.184000	26.2	9.000	Off	L1	9.8	19.8	46.0
1.202000	26.6	9.000	Off	L1	9.8	19.4	46.0
1.210000	26.6	9.000	Off	L1	9.8	19.4	46.0
1.216000	26.8	9.000	Off	L1	9.8	19.2	46.0
1.270000	27.1	9.000	Off	L1	9.9	18.9	46.0
9.776000	26.5	9.000	Off	L1	10.2	23.5	50.0
9.836000	26.4	9.000	Off	L1	10.2	23.6	50.0
9.900000	26.5	9.000	Off	L1	10.2	23.5	50.0
10.052000	26.3	9.000	Off	L1	10.2	23.7	50.0
14.188000	25.5	9.000	Off	L1	10.4	24.5	50.0
19.192000	17.6	9.000	Off	L1	10.6	32.4	50.0

Conducted Emissions (Line 2)

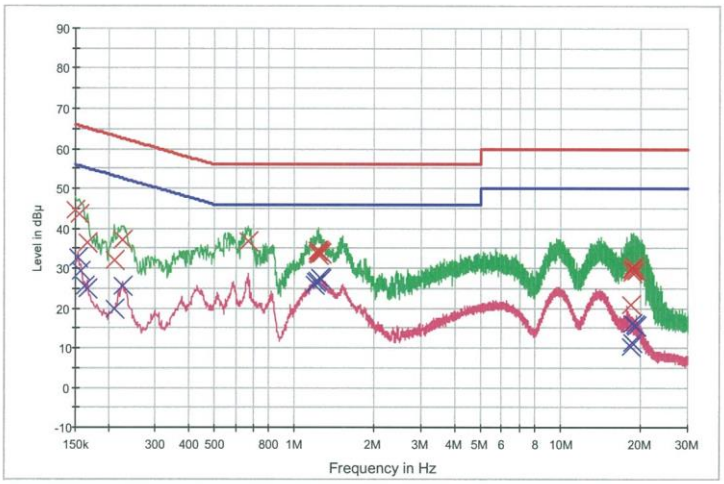
Test 1 / 2

HCT TEST Report

Common Information

EUT:	SM-T725
Manufacturer:	SAMSUNG
Test Site:	SHIELD ROOM
Operating Conditions:	BT LE MODE N

FCC CLASS B_Exten Cable



Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	44.7	9.000	Off	N	9.8	21.3	66.0
0.156000	43.7	9.000	Off	N	9.8	22.0	65.7
0.166000	36.5	9.000	Off	N	9.8	28.7	65.2
0.210000	32.0	9.000	Off	N	9.9	31.2	63.2
0.226000	37.0	9.000	Off	N	9.9	25.6	62.6
0.668000	36.7	9.000	Off	N	9.9	19.3	56.0
1.216000	34.5	9.000	Off	N	10.0	21.5	56.0
1.224000	33.9	9.000	Off	N	10.0	22.1	56.0
1.230000	33.5	9.000	Off	N	10.0	22.5	56.0
1.234000	34.4	9.000	Off	N	10.0	21.6	56.0
1.250000	34.1	9.000	Off	N	10.0	21.9	56.0
1.256000	33.9	9.000	Off	N	10.0	22.1	56.0
18.456000	20.8	9.000	Off	N	10.8	39.2	60.0
18.510000	29.0	9.000	Off	N	10.8	31.0	60.0
18.594000	29.8	9.000	Off	N	10.8	30.2	60.0
18.616000	30.1	9.000	Off	N	10.8	29.9	60.0
18.848000	30.8	9.000	Off	N	10.8	29.2	60.0
19.202000	29.4	9.000	Off	N	10.8	30.6	60.0

Test 2 / 2

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.154000	32.8	9.000	Off	N	9.8	23.0	55.8
0.158000	29.4	9.000	Off	N	9.8	26.2	55.6
0.162000	25.7	9.000	Off	N	9.8	29.6	55.4
0.166000	25.0	9.000	Off	N	9.8	30.1	55.2
0.210000	19.9	9.000	Off	N	9.9	33.3	53.2
0.226000	25.5	9.000	Off	N	9.9	27.1	52.6
1.186000	26.0	9.000	Off	N	10.0	20.0	46.0
1.206000	26.7	9.000	Off	N	10.0	19.3	46.0
1.216000	26.8	9.000	Off	N	10.0	19.2	46.0
1.224000	26.9	9.000	Off	N	10.0	19.1	46.0
1.250000	27.7	9.000	Off	N	10.0	18.3	46.0
1.256000	27.4	9.000	Off	N	10.0	18.6	46.0
18.456000	10.4	9.000	Off	N	10.8	39.6	50.0
18.510000	11.4	9.000	Off	N	10.8	38.6	50.0
18.594000	16.2	9.000	Off	N	10.8	33.8	50.0
18.616000	16.2	9.000	Off	N	10.8	33.8	50.0
19.114000	15.6	9.000	Off	N	10.8	34.4	50.0
19.200000	15.4	9.000	Off	N	10.8	34.6	50.0

10. 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
ESPAC	SU-642 /Temperature Chamber	03/30/2018	Annual	0093008124
Agilent	N9020A / Signal Analyzer	06/08/2018	Annual	MY51110085
Agilent	N9030A / Signal Analyzer	11/20/2018	Annual	MY49431210
Agilent	N1911A / Power Meter	04/16/2018	Annual	MY45100523
Agilent	N1921A / Power Sensor	04/16/2018	Annual	MY52260025
Agilent	87300B / Directional Coupler	11/20/2018	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
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	08/23/2018	Biennial	1513-175
Schwarzbeck	VULB 9168 / Hybrid Antenna	04/06/2017	Biennial	760
Schwarzbeck	VULB 9168 / Hybrid Antenna	08/09/2018	Annual	3368
Schwarzbeck	BBHA 9120D / Horn Antenna	06/30/2017	Biennial	1300
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	12/04/2017	Biennial	BBHA9170541
Rohde & Schwarz	FSP(9 kHz ~ 40 GHz) / Spectrum Analyzer	07/24/2018	Annual	100843
Wainwright Instruments	WHK3.0/18G-10EF / High Pass Filter	01/03/2019	Annual	F6
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	01/03/2019	Annual	2
Weinschel	2-3 / Attenuator (3 dB)	10/10/2018	Annual	BR0617
H+S	5910-N-50-010 / Attenuator(10 dB)	11/08/2018	Annual	NONE
CERNEX	CBLU1183540B-01 / Power Amplifier	12/21/2018	Annual	25540
CERNEX	CBL06185030 / Power Amplifier	03/28/2018	Annual	28550
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.

11. ANNEX A_ TEST SETUP PHOTO

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

No.	Description
1	HCT-RF-1904-FC031-P