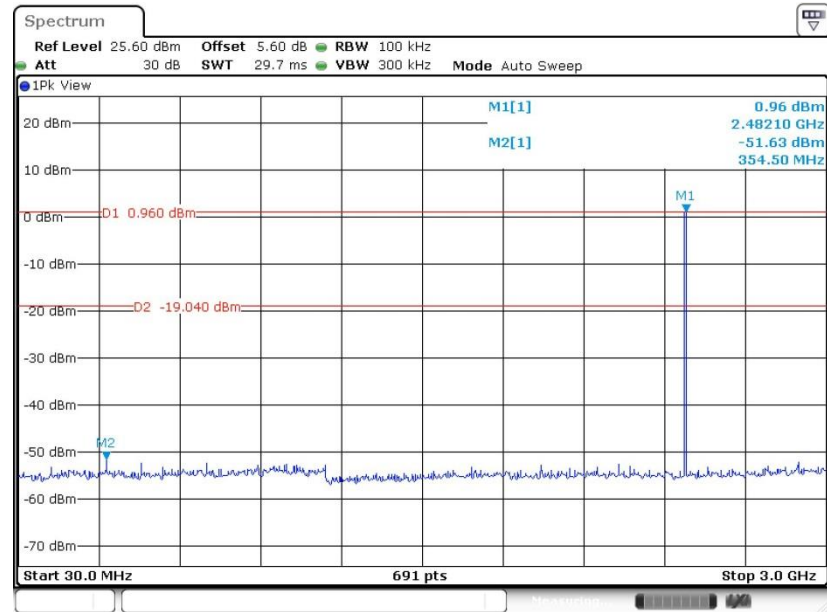


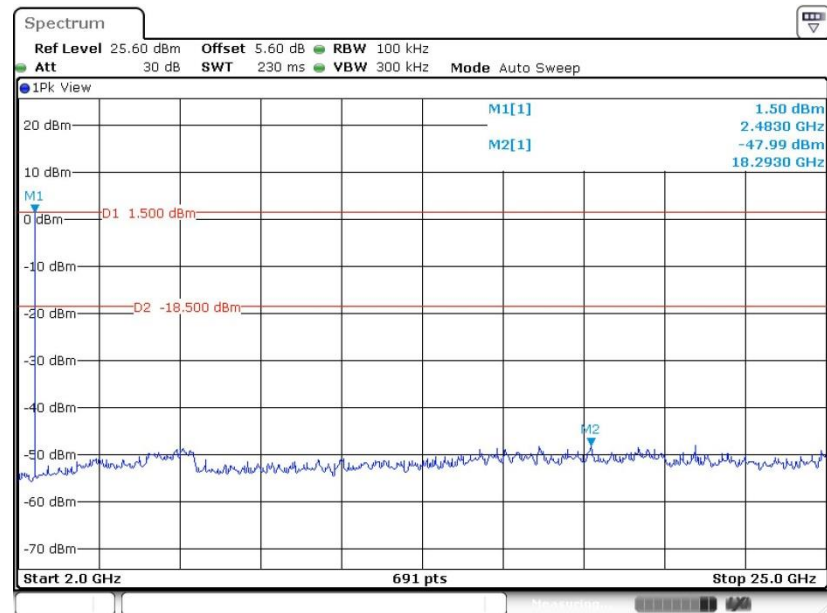


CSE Plot on Ch 78 between 30MHz ~ 3 GHz



Date: 18.JUN.2022 05:28:21

CSE Plot on Ch 78 between 2 GHz ~ 25 GHz



Date: 18.JUN.2022 05:28:51

3.8 Radiated Band Edges and Spurious Emission Measurement

3.8.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.8.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.



3.8.3 Test Procedures

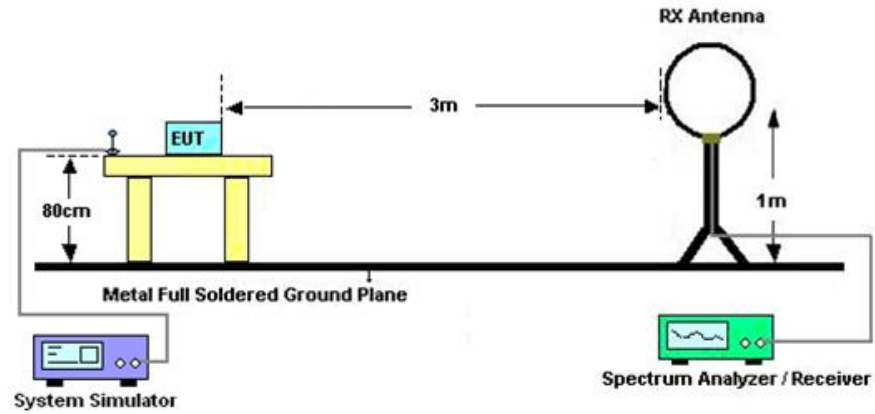
1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
4. Set to the maximum power setting and enable the EUT transmit continuously.
5. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz, RBW=1MHz for $f > 1$ GHz ; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak
 - (3) For average measurement: use duty cycle correction factor method per 15.35(c).
Duty cycle = On time/100 milliseconds
$$\text{On time} = N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n$$

Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc.
Average Emission Level = Peak Emission Level + $20 * \log(\text{Duty cycle})$
6. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
7. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
8. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

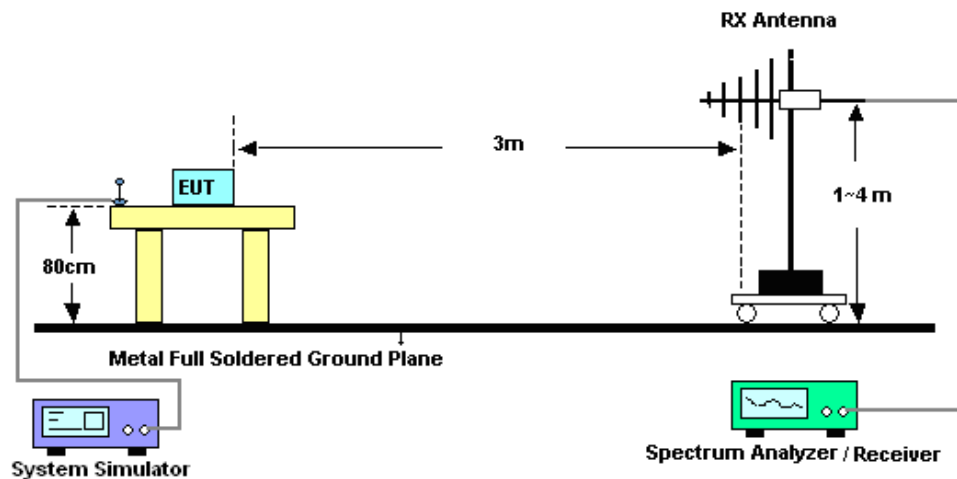
Note: The average levels were calculated from the peak level corrected with duty cycle correction factor (-24.79dB) derived from $20 \log(\text{dwell time}/100\text{ms})$. This correction is only for signals that hop with the fundamental signal, such as band-edge and harmonic. Other spurious signals that are independent of the hopping signal would not use this correction.

3.8.4 Test Setup

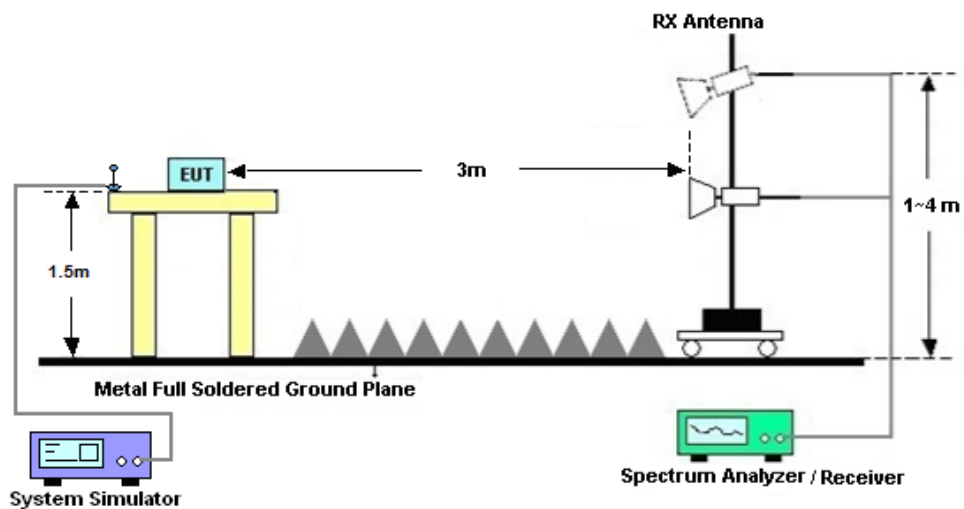
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





3.8.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.8.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B&C.

3.8.7 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix B&C.

3.8.8 Duty cycle correction factor for average measurement

Please refer to Appendix D.

3.9 AC Conducted Emission Measurement

3.9.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

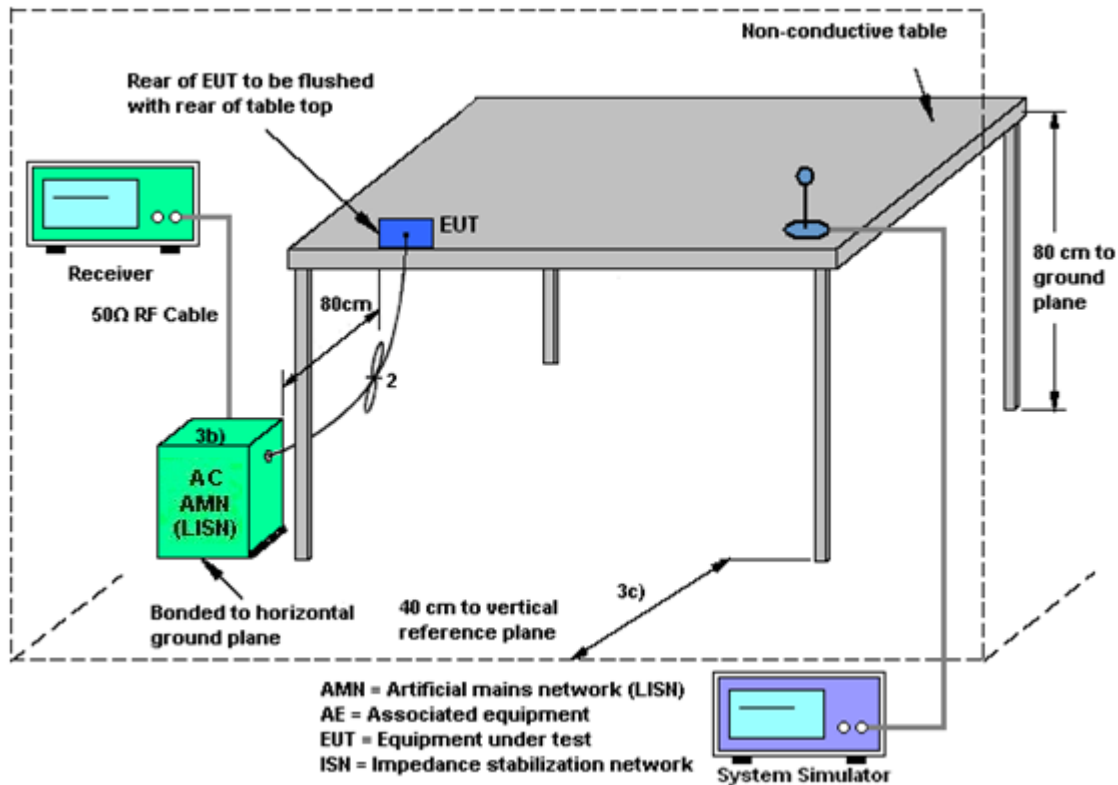
3.9.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.9.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.9.4 Test Setup



3.9.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.10 Antenna Requirements

3.10.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.10.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.10.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 14, 2021	Jun. 07, 2022~ Jun. 18, 2022	Oct. 13, 2022	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 05, 2022	Jun. 07, 2022~ Jun. 18, 2022	Jan. 04, 2023	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 05, 2022	Jun. 07, 2022~ Jun. 18, 2022	Jan. 04, 2023	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY564000 04	3Hz~8.5GHz; Max 30dBm	Oct. 16, 2021	Jul. 18, 2022	Oct. 15, 2022	Radiation (03CH05-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY551502 44	10Hz~44GHz, MAX 30dB	Mar. 24, 2022	Jul. 18, 2022	Mar. 23, 2023	Radiation (03CH05-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 30, 2021	Jul. 18, 2022	Oct. 29, 2022	Radiation (03CH05-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz~1GHz	Jun. 03, 2022	Jul. 18, 2022	Jun. 02, 2023	Radiation (03CH05-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Nov. 08, 2021	Jul. 18, 2022	Nov. 07, 2022	Radiation (03CH05-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 05, 2022	Jul. 18, 2022	Jan. 04, 2023	Radiation (03CH05-KS)
Amplifier	SONOMA	310N	380826	9KHz~1GHz	Jul. 11, 2022	Jul. 18, 2022	Jul. 10, 2023	Radiation (03CH05-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 05, 2022	Jul. 18, 2022	Jan. 04, 2023	Radiation (03CH05-KS)
high gain Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	2012228	1Ghz~18Ghz	Oct. 16, 2021	Jul. 18, 2022	Oct. 15, 2022	Radiation (03CH05-KS)
Amplifier	Keysight	83017A	MY532703 16	500MHz~26.5GHz	Oct. 16, 2021	Jul. 18, 2022	Oct. 15, 2022	Radiation (03CH05-KS)
AC Power Source	Chroma	61601	F1040900 04	N/A	NCR	Jul. 18, 2022	NCR	Radiation (03CH05-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jul. 18, 2022	NCR	Radiation (03CH05-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jul. 18, 2022	NCR	Radiation (03CH05-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 20, 2022	Jun. 12, 2022	Apr. 19, 2023	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 14, 2021	Jun. 12, 2022	Oct. 13, 2022	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Apr. 20, 2022	Jun. 12, 2022	Apr. 19, 2023	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000 0811	AC 0V~300V, 45Hz~1000Hz	Oct. 14, 2021	Jun. 12, 2022	Oct. 13, 2022	Conduction (CO01-KS)

NCR: No Calibration Required.

5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	±0.56 dB
Conducted Emissions	±0.92 dB
Occupied Channel Bandwidth	±0.03 %

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.94dB
---	--------

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
---	-------

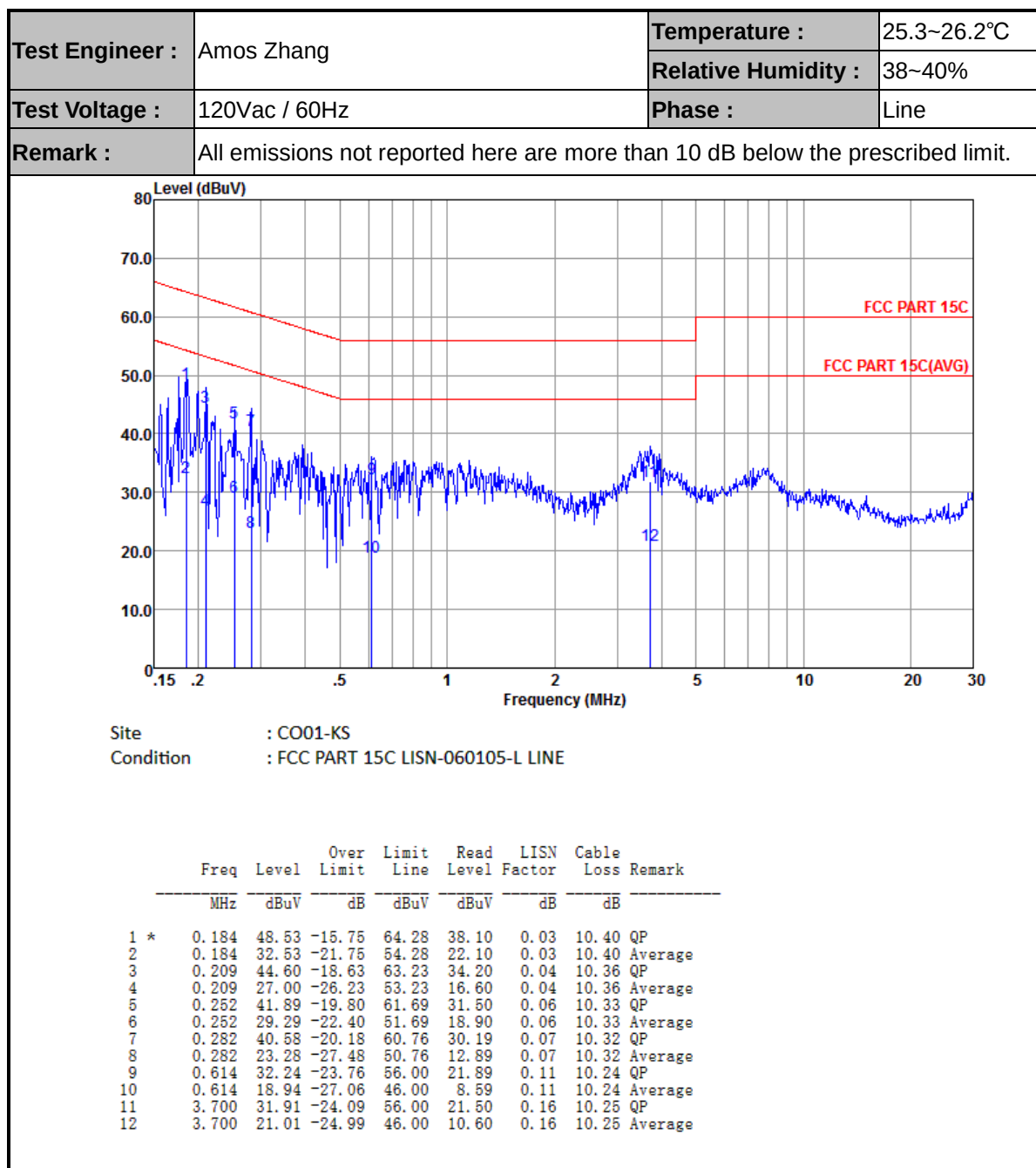
Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
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----- THE END -----

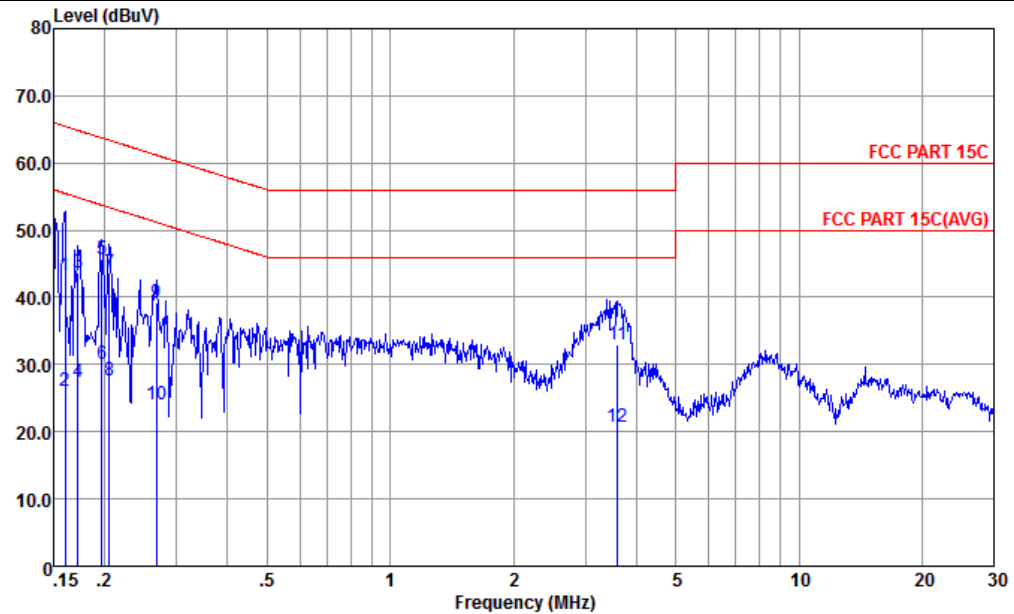


Appendix A. AC Conducted Emission Test Results





Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : FCC PART 15C LISN-060105-N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.160	43.16	-22.31	65.47	32.60	0.11	10.45	QP
2	0.160	26.16	-29.31	55.47	15.60	0.11	10.45	Average
3	0.172	43.73	-21.13	64.86	33.20	0.11	10.42	QP
4	0.172	27.33	-27.53	54.86	16.80	0.11	10.42	Average
5 *	0.197	45.57	-18.19	63.76	35.10	0.10	10.37	QP
6	0.197	30.07	-23.69	53.76	19.60	0.10	10.37	Average
7	0.205	43.66	-19.74	63.40	33.20	0.10	10.36	QP
8	0.205	27.66	-25.74	53.40	17.20	0.10	10.36	Average
9	0.267	39.32	-21.88	61.20	28.90	0.10	10.32	QP
10	0.267	24.02	-27.18	51.20	13.60	0.10	10.32	Average
11	3.603	33.01	-22.99	56.00	22.60	0.16	10.25	QP
12	3.603	20.71	-25.29	46.00	10.30	0.16	10.25	Average

Note:

1. Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
2. Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



Appendix B. Radiated Spurious Emission

2.4GHz 2400~2483.5MHz

BT (Band Edge @ 3m)

BT	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BT CH00 2402MHz		2357.06	48.87	-25.13	74	45.88	32.83	7.04	36.88	287	302	P	H
	*	2357.06	24.08	-29.92	54	-	-	-	-	-	-	A	H
		2402	95.29	-	-	92.14	32.88	7.13	36.86	287	302	P	V
		2402	70.50	-	-	-	-	-	-	-	-	A	H
	*	2366.03	48.30	-25.70	74	45.28	32.83	7.07	36.88	153	285	P	V
		2366.03	23.51	-30.49	54	-	-	-	-	-	-	A	H
		2402	92.84	-	-	89.69	32.88	7.13	36.86	153	285	P	V
		2402	68.05	-	-	-	-	-	-	-	-	A	V
BT CH 39 2441MHz		2360.7	48.02	-25.98	74	45	32.83	7.07	36.88	271	300	P	H
		2360.7	23.23	-30.77	54	-	-	-	-	-	-	A	H
	*	2483.62	48.11	-25.89	74	44.7	32.98	7.25	36.82	271	300	P	H
		2483.62	23.32	-30.68	54	-	-	-	-	-	-	A	H
		2442	92.90	-	-	89.61	32.94	7.19	36.84	271	300	P	H
		2442	68.11	-	-	-	-	-	-	-	-	A	H
		2310.13	48.26	-25.74	74	45.42	32.77	6.98	36.91	100	288	P	V
		2310.13	23.47	-30.53	54	-	-	-	-	-	-	A	V
	*	2492.23	48.59	-25.41	74	45.12	33	7.28	36.81	100	288	P	V
		2492.23	23.80	-30.20	54	-	-	-	-	-	-	A	V
		2442	90.11	-	-	86.82	32.94	7.19	36.84	100	288	P	V
		2442	65.32	-	-	-	-	-	-	-	-	A	V



BT CH 78 2480MHz		2490.76	48.06	-25.94	74	44.62	33	7.25	36.81	100	218	P	H
	*	2490.76	23.27	-30.73	54	-	-	-	-	-	-	A	H
		2480	96.92	-	-	93.51	32.98	7.25	36.82	100	218	P	H
		2480	72.13	-	-	-	-	-	-	-	-	A	H
		2490.4	48.54	-25.46	74	45.1	33	7.25	36.81	168	282	P	V
	*	2490.4	23.75	-30.25	54	-	-	-	-	-	-	A	V
		2480	95.29	-	-	91.88	32.98	7.25	36.82	168	282	P	V
		2480	70.50	-	-	-	-	-	-	-	-	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

BT (Harmonic @ 3m)

BT	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BT CH 00 2402MHz		4800	39.24	-34.76	74	60.22	34.19	10.2	65.37	300	0	P	H
		4804	40.02	-33.98	74	61	34.19	10.2	65.37	100	0	P	V
BT CH 39 2441MHz		4875	39.75	-34.25	74	60.65	34.23	10.29	65.42	300	0	P	H
		7320	41.58	-32.42	74	58.95	35.87	12.72	65.96	300	0	P	H
		4875	40.02	-33.98	74	60.92	34.23	10.29	65.42	100	0	P	V
		7320	41.88	-32.12	74	59.25	35.87	12.72	65.96	100	0	P	V
BT CH 78 2480MHz		4965	39.62	-34.38	74	60.4	34.28	10.41	65.47	300	0	P	H
		7440	42.14	-31.86	74	59.77	35.89	12.79	66.31	300	0	P	H
		4965	40.63	-33.37	74	61.41	34.28	10.41	65.47	100	0	P	V
		7440	42.33	-31.67	74	59.96	35.89	12.79	66.31	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz BT (LF)

BT	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz BT LF		46.49	23.46	-16.54	40	38.83	16.53	1.03	32.93	-	-	P	H
		86.26	26.54	-13.46	40	42.69	15.2	1.41	32.76	-	-	P	H
		171.62	25.89	-17.61	43.5	39.85	16.98	1.99	32.93	-	-	P	H
		350.1	27.44	-18.56	46	36.09	21.4	2.85	32.9	-	-	P	H
		648.86	25.88	-20.12	46	28.8	25.89	3.89	32.7	-	-	P	H
		856.44	30.3	-15.7	46	31.19	27.23	4.47	32.59	-	-	P	H
		45.52	31.93	-8.07	40	46.9	16.92	1.03	32.92	-	-	P	V
		67.83	29.49	-10.51	40	48.05	13.24	1.24	33.04	-	-	P	V
		166.77	25.57	-17.93	43.5	39.4	17.1	1.97	32.9	-	-	P	V
		346.22	26.68	-19.32	46	35.44	21.31	2.83	32.9	-	-	P	V
		652.74	27.62	-18.38	46	30.54	25.89	3.9	32.71	-	-	P	V
		761.38	29.25	-16.75	46	31.09	26.59	4.22	32.65	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical



A calculation example for radiated spurious emission is shown as below:

BT	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BT CH 00 2402MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)

2. Level(dBμV/m) =

Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.



Appendix C. Radiated Spurious Emission Plots

Note symbol

-L	Low channel location
-R	High channel location



2.4GHz 2400~2483.5MHz

BT (Band Edge @ 3m)

BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																											
ANT	BT CH00 2402MHz																																																											
0	Horizontal	Fundamental																																																										
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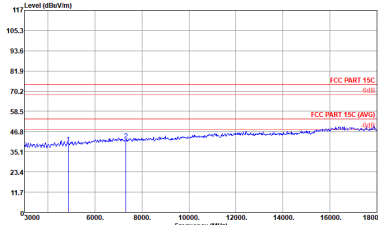
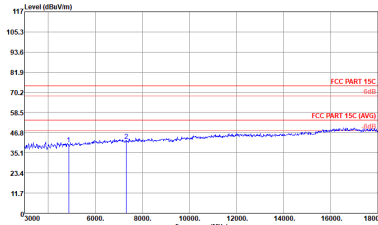
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Peak	Site : 030905-KS Condition : FCC PART 15C 3m 3317 SW 7595V VERTICAL Project : RBW 1000.000kHz VBW 1000.000kHz SMT Auto Mode : 3 Plane : Y Full-directivity : Y IME1 : #21 <table><tr><th>IME1</th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2480.40</td><td>48.54</td><td>-25.46</td><td>74.00</td><td>45.10</td><td>33.00</td><td>7.25</td><td>36.81</td><td>168</td><td>282 Peak</td><td>VERTICAL</td></tr></table>	IME1	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBuV/m	dB	dBuV/m	dB	dB	dB	cm	deg			1	2480.40	48.54	-25.46	74.00	45.10	33.00	7.25	36.81	168	282 Peak	VERTICAL	Site : 030905-KS Condition : FCC PART 15C 3m 3317 SW 7595V VERTICAL Project : RBW 1000.000kHz VBW 1000.000kHz SMT Auto Mode : 3 Plane : Y Full-directivity : Y IME1 : #21 <table><tr><th>IME1</th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2480.00</td><td>95.29</td><td>21.29</td><td>74.00</td><td>91.88</td><td>32.98</td><td>7.25</td><td>36.82</td><td>168</td><td>282 Peak</td><td>VERTICAL</td></tr></table>	IME1	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBuV/m	dB	dBuV/m	dB	dB	dB	cm	deg			1	2480.00	95.29	21.29	74.00	91.88	32.98	7.25	36.82	168	282 Peak	VERTICAL
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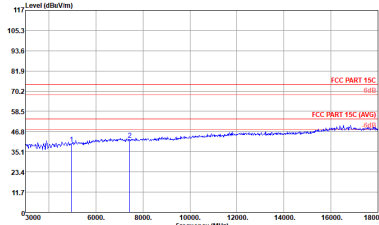
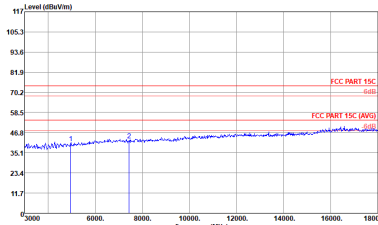
2.4GHz 2400~2483.5MHz
BT (Harmonic @ 3m)

BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																													
ANT	BT CH00 2402MHz																																													
1	Horizontal	Vertical																																												
Peak Avg.	Site : 032005-K3 Condition : FCC PART 15C 3m 3317 SN 75957 HORIZONTAL Project : FR230408 Mode : Y Plane : Y Full-directivity : Y MEI : K21 <table><tr><th>MEI</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><td>1</td><td>48.00</td><td>39.24</td><td>-34.76</td><td>74.00</td><td>60.22</td><td>34.19</td><td>10.20</td><td>65.37</td><td>300</td><td>0 Peak</td><td>HORIZONTAL</td></tr></table>	MEI	Level	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	1	48.00	39.24	-34.76	74.00	60.22	34.19	10.20	65.37	300	0 Peak	HORIZONTAL	Site : 032005-K3 Condition : FCC PART 15C 3m 3317 SN 75957 VERTICAL Project : FR230408 Mode : Y Plane : Y Full-directivity : Y MEI : K21 <table><tr><th>MEI</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><td>1</td><td>48.04</td><td>40.02</td><td>-33.98</td><td>74.00</td><td>61.00</td><td>34.19</td><td>10.20</td><td>65.37</td><td>100</td><td>0 Peak</td><td>VERTICAL</td></tr></table>	MEI	Level	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	1	48.04	40.02	-33.98	74.00	61.00	34.19	10.20	65.37	100	0 Peak	VERTICAL
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Peak Avg.	 Site : 030405-KS Condition : FCC PART 15C 3m 3317 CW 750P5 HORIZONTAL Project : RBW 1000.000kHz VBW 1000.000kHz SMT Auto Model : FR230408 Polar : Y Plane : Full-directivity IME1 : #21 <table><tr><th>IME1</th><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>4875.00</td><td>39.75</td><td>-34.23</td><td>74.00</td><td>60.65</td><td>34.23</td><td>10.29</td><td>65.42</td><td>0 Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>7320.00</td><td>41.88</td><td>-32.42</td><td>74.00</td><td>58.95</td><td>35.87</td><td>12.72</td><td>65.96</td><td>0 Peak</td><td>HORIZONTAL</td></tr></table>	IME1	Freq	Level	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBuV/m	dB	dBuV/m	dB	dB	cm	deg			1	4875.00	39.75	-34.23	74.00	60.65	34.23	10.29	65.42	0 Peak	HORIZONTAL	2	7320.00	41.88	-32.42	74.00	58.95	35.87	12.72	65.96	0 Peak	HORIZONTAL	 Site : 030405-KS Condition : FCC PART 15C 3m 3317 CW 750P5 VERTICAL Project : RBW 1000.000kHz VBW 1000.000kHz SMT Auto Model : FR230408 Polar : Y Plane : Full-directivity IME1 : #21 <table><tr><th>IME1</th><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>4875.00</td><td>40.07</td><td>-33.98</td><td>74.00</td><td>60.92</td><td>34.23</td><td>10.29</td><td>65.42</td><td>0 Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>7320.00</td><td>41.88</td><td>-32.12</td><td>74.00</td><td>59.25</td><td>35.87</td><td>12.72</td><td>65.96</td><td>0 Peak</td><td>VERTICAL</td></tr></table>	IME1	Freq	Level	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBuV/m	dB	dBuV/m	dB	dB	cm	deg			1	4875.00	40.07	-33.98	74.00	60.92	34.23	10.29	65.42	0 Peak	VERTICAL	2	7320.00	41.88	-32.12	74.00	59.25	35.87	12.72	65.96	0 Peak	VERTICAL
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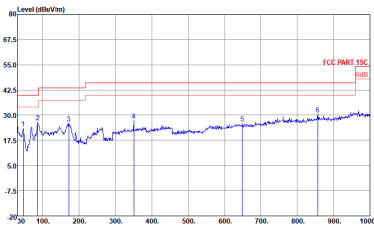
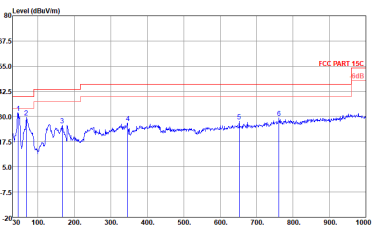


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Peak Avg.	 Site : 030905-KS Condition : FCC PART 15C 3m 3317 SW 750W HORIZONTAL Project : RBW 1000.000kHz VBW 1000.000kHz SMT Auto Model : FR230408 Plane : Y Full-directivity IME1 : #21 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>4965.00</td><td>39.62</td><td>-34.38</td><td>74.00</td><td>60.40</td><td>34.28</td><td>10.41</td><td>65.47</td><td>300</td><td>0 Peak HORIZONTAL</td></tr><tr><td>2</td><td>7440.00</td><td>42.14</td><td>-31.86</td><td>74.00</td><td>59.77</td><td>35.89</td><td>12.79</td><td>66.31</td><td>300</td><td>0 Peak HORIZONTAL</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg			1	4965.00	39.62	-34.38	74.00	60.40	34.28	10.41	65.47	300	0 Peak HORIZONTAL	2	7440.00	42.14	-31.86	74.00	59.77	35.89	12.79	66.31	300	0 Peak HORIZONTAL	 Site : 030905-KS Condition : FCC PART 15C 3m 3317 SW 750W VERTICAL Project : RBW 1000.000kHz VBW 1000.000kHz SMT Auto Model : FR230408 Plane : Y Full-directivity IME1 : #21 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>4965.00</td><td>40.63</td><td>-33.37</td><td>74.00</td><td>61.41</td><td>34.28</td><td>10.41</td><td>65.47</td><td>100</td><td>0 Peak VERTICAL</td></tr><tr><td>2</td><td>7440.00</td><td>42.33</td><td>-31.67</td><td>74.00</td><td>59.96</td><td>35.89</td><td>12.79</td><td>66.31</td><td>100</td><td>0 Peak VERTICAL</td></tr></table>		Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg			1	4965.00	40.63	-33.37	74.00	61.41	34.28	10.41	65.47	100	0 Peak VERTICAL	2	7440.00	42.33	-31.67	74.00	59.96	35.89	12.79	66.31	100	0 Peak VERTICAL
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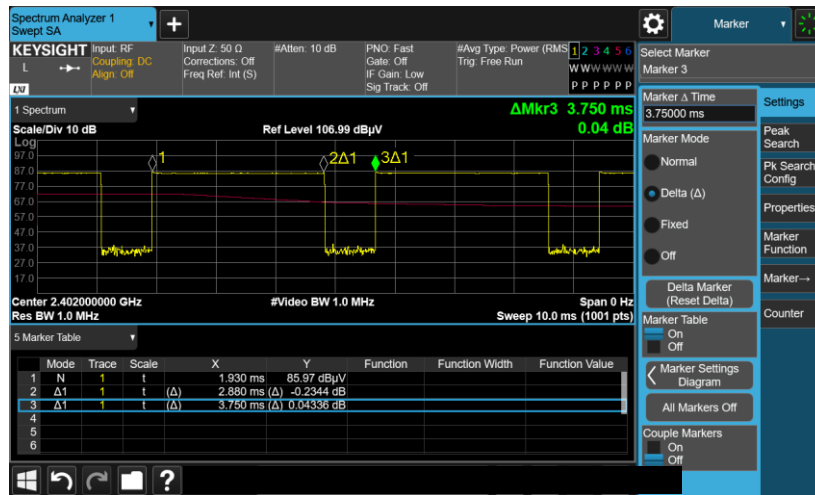
Emission below 1GHz

2.4GHz BT (LF)

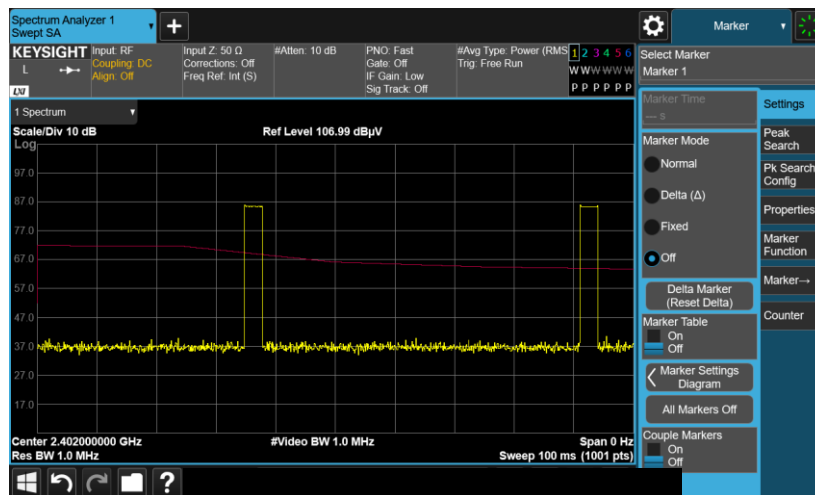
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QP / Peak	 Site : 03CH05-K3 Condition : FCC PART 15C 3m GBL0110 SN23188 HORIZONTAL Power : 100.000MHz VSW: 300.000MHz SRT: Auto Project : FR230408 mode : Y Full-directivity IME1 <table><tr><th>IME1</th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pow</th><th>T/Pow</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th></th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>46.49</td><td>23.44</td><td>-14.54</td><td>40.00</td><td>38.83</td><td>1.63</td><td>32.93</td><td>---</td><td>---</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>86.26</td><td>26.54</td><td>-13.46</td><td>40.00</td><td>42.89</td><td>15.20</td><td>1.41</td><td>32.76</td><td>---</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>3</td><td>171.62</td><td>25.89</td><td>-17.11</td><td>43.00</td><td>39.85</td><td>16.98</td><td>1.99</td><td>32.83</td><td>---</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>4</td><td>250.10</td><td>27.44</td><td>-18.56</td><td>46.00</td><td>36.09</td><td>21.60</td><td>2.85</td><td>32.90</td><td>---</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>5</td><td>448.86</td><td>25.88</td><td>-15.12</td><td>46.00</td><td>28.89</td><td>25.89</td><td>3.89</td><td>32.70</td><td>---</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>6</td><td>856.44</td><td>30.30</td><td>-15.70</td><td>46.00</td><td>31.19</td><td>27.23</td><td>4.47</td><td>32.09</td><td>---</td><td>Peak</td><td>HORIZONTAL</td></tr></table>	IME1	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pow	T/Pow	Remark	Pol/Phas		MHz	dBuV/m		dBuV/m	dB	dB	dB	dB	dB	cm	deg	1	46.49	23.44	-14.54	40.00	38.83	1.63	32.93	---	---	Peak	HORIZONTAL	2	86.26	26.54	-13.46	40.00	42.89	15.20	1.41	32.76	---	Peak	HORIZONTAL	3	171.62	25.89	-17.11	43.00	39.85	16.98	1.99	32.83	---	Peak	HORIZONTAL	4	250.10	27.44	-18.56	46.00	36.09	21.60	2.85	32.90	---	Peak	HORIZONTAL	5	448.86	25.88	-15.12	46.00	28.89	25.89	3.89	32.70	---	Peak	HORIZONTAL	6	856.44	30.30	-15.70	46.00	31.19	27.23	4.47	32.09	---	Peak	HORIZONTAL	 Site : 03CH05-K3 Condition : FCC PART 15C 3m GBL0110 SN23188 VERTICAL Power : 100.000MHz VSW: 300.000MHz SRT: Auto Project : FR230408 mode : Y Full-directivity IME1 <table><tr><th>IME1</th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pow</th><th>T/Pow</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th></th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>46.57</td><td>21.93</td><td>-18.07</td><td>40.00</td><td>46.90</td><td>16.97</td><td>1.03</td><td>32.92</td><td>---</td><td>Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>87.83</td><td>29.49</td><td>-10.51</td><td>40.00</td><td>48.05</td><td>13.24</td><td>1.34</td><td>33.04</td><td>---</td><td>Peak</td><td>VERTICAL</td></tr><tr><td>3</td><td>166.77</td><td>28.87</td><td>-17.13</td><td>43.00</td><td>39.40</td><td>17.10</td><td>1.97</td><td>32.80</td><td>---</td><td>Peak</td><td>VERTICAL</td></tr><tr><td>4</td><td>244.72</td><td>26.68</td><td>-19.32</td><td>46.00</td><td>35.44</td><td>21.31</td><td>2.83</td><td>32.90</td><td>---</td><td>Peak</td><td>VERTICAL</td></tr><tr><td>5</td><td>452.14</td><td>27.42</td><td>-18.58</td><td>46.00</td><td>30.44</td><td>25.89</td><td>3.90</td><td>32.71</td><td>---</td><td>Peak</td><td>VERTICAL</td></tr><tr><td>6</td><td>761.38</td><td>29.25</td><td>-16.75</td><td>46.00</td><td>31.09</td><td>26.59</td><td>4.22</td><td>32.65</td><td>---</td><td>Peak</td><td>VERTICAL</td></tr></table>	IME1	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pow	T/Pow	Remark	Pol/Phas		MHz	dBuV/m		dBuV/m	dB	dB	dB	dB	dB	cm	deg	1	46.57	21.93	-18.07	40.00	46.90	16.97	1.03	32.92	---	Peak	VERTICAL	2	87.83	29.49	-10.51	40.00	48.05	13.24	1.34	33.04	---	Peak	VERTICAL	3	166.77	28.87	-17.13	43.00	39.40	17.10	1.97	32.80	---	Peak	VERTICAL	4	244.72	26.68	-19.32	46.00	35.44	21.31	2.83	32.90	---	Peak	VERTICAL	5	452.14	27.42	-18.58	46.00	30.44	25.89	3.90	32.71	---	Peak	VERTICAL	6	761.38	29.25	-16.75	46.00	31.09	26.59	4.22	32.65	---	Peak	VERTICAL
	IME1	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pow	T/Pow	Remark	Pol/Phas																																																																																																																																																																																						
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Appendix D. Duty Cycle Plots

3DH5 on time (One Pulse) Plot on Channel 39



3DH5 on time (Count Pulses) Plot on Channel 39



Note:

1. Worst case Duty cycle = on time/100 milliseconds = $2 * 2.88 / 100 = 5.76 \%$
2. Worst case Duty cycle correction factor = $20 * \log(\text{Duty cycle}) = -24.79 \text{ dB}$
3. 3DH5 has the highest duty cycle worst case and is reported.