



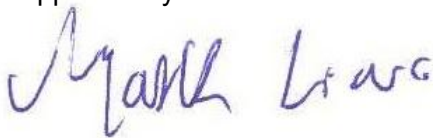
FCC RADIO TEST REPORT

Applicant : ELO TOUCH SOLUTIONS, INC.
Address : 670 N. McCarthy Blvd., Suite 100 Milpitas, CA
95035 USA
Equipment : Touch All-in-One Computer
Model No. : ESY22I1E
Trade Name : Elo or 
FCC ID : RBWESYQC5PAY

I HEREBY CERTIFY THAT :

The sample was received on Apr. 24, 2026 and the testing was completed on Oct. 07, 2026 at CerpPASS Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of CerpPASS Technology Corp., the test report shall not be reproduced except in full.

Approved by:



Mark Liao / Supervisor

Laboratory Accreditation:

CerpPASS Technology Corporation Test Laboratory





Contents

1. Summary of Test Procedure and Test Results	4
1.1 Applicable Standards	4
2. Test Configuration of Equipment under Test	5
2.1 Feature of Equipment under Test.....	5
2.2 Test Mode and Test Software	7
2.3 Description of Test System.....	8
2.4 General Information of Test	9
2.5 Measurement Uncertainty	10
3. Test Equipment and Ancillaries Used for Tests	11
4. Test of AC Power Line Conducted Emission	12
4.1 Test Limit	12
4.2 Test Procedures	12
4.3 Typical Test Setup	13
4.4 Test Result and Data	14
4.5 Test Photographs	20
5. Test of Spurious Emission (Radiated)	21
5.1 Test Limit	21
5.2 Test Procedures	22
5.3 Typical Test Setup	23
5.4 Test Result and Data (9kHz ~ 30MHz).....	24
5.5 Test Result and Data (30MHz ~ 1GHz)	24
5.6 Test Result and Data (1GHz ~ 40GHz).....	30
5.7 Restricted Bands of Operation	36
5.8 Test Photographs (30MHz ~ 1GHz)	37
5.1 Test Photographs (1GHz ~ 40GHz)	38



History of this test report

Report No.	Issued Date	Description
26040374-TRFCC09	Aug. 05, 2026	Original
26040374-TRFCC09-A	Oct. 08, 2026	The previously cited case has been changed, and the difference is that the screen size has been changed from case number 25110183 to 22 inches.



1. Summary of Test Procedure and Test Results

1.1 Applicable Standards

ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024

FCC Rules and Regulations Part 15 Subpart C §15.247

FCC Rules and Regulations Part 15 Subpart E §15.407

Description of Test	Result
CO-LOCATION	PASS

*The lab has reduced the uncertainty risk factor from test equipment, environment and staff technicians which according to the standard on contract. Therefore, the test result will only be determined by standard requirement, measurement uncertainty evaluation is not considered.

The difference is list below:

1. The screen size was changed to 22" from case number 25110183.
2. The antenna cable length has been extended.

After engineering evaluation, the test results can refer to original report number: 25110183-TRFCC09



2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

Operation Frequency Range	NFC: 13.553~13.567MHz BT / BLE: 2400-2483.5MHz WLAN:802.11b/g/n/ax: 2400-2483.5MHz 5GHz:802.11a/n/ac/ax:5150-5250MHz, 5250-5350MHz, 5470-5725MHz, 5725-5875MHz 6GHz: 802.11a/ax: 5925MHz~6425MHz, 6425MHz~6525MHz 6525MHz~6875MHz, 6875MHz~7125MHz
Center Frequency Range	NFC: 13.56MHz BT / BLE: 2402MHz-2480MHz WLAN:802.11b/g/n/ax: 2412MHz-2462MHz 5GHz:802.11a/n/ac/ax:5180-5240MHz, 5260-5320MHz, 5500-5720MHz, 5745-5825MHz 6GHz: 802.11a/ax: 5955MHz~6415MHz, 6435MHz~6515MHz 6535MHz~6855MHz, 6875MHz~7115MHz
Modulation Type	NFC: ASK BT: GFSK, $\pi/4$ -DQPSK, 8DPSK BLE: GFSK WLAN: 2.4GHz: 802.11b: CCK, DQPSK, DBPSK 802.11g/n: BPSK, QPSK, 16QAM, 64QAM 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM 5GHz: 802.11a/n: BPSK, QPSK, 16QAM, 64QAM 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM 6GHz 802.11a: BPSK, QPSK, 16QAM, 64QAM 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Modulation Technology	DSSS, OFDM, FHSS, DTS, OFDMA
Data Rate	BT: GFSK: 1Mbps, $\pi/4$ -DQPSK: 2Mbps, 8DPSK: 3Mbps BLE: GFSK: 1Mbps, 2Mbps WLAN: 2.4GHz: 802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS15, HT20/40 802.11ax: MCS0 – MCS11, HE20/40 5GHz: 802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS15, HT20/40 802.11ac: MCS0 – MCS9, VHT20/40/80/160 802.11ax: MCS0 – MCS11, HE20/40/80/160 6GHz 802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11ax: MCS0 – MCS11, HE20/40/80/160
Antenna Type	NFC: PCB Antenna BT/BLE/WLAN: PIFA Antenna



Antenna Gain	For NFC:0 dBi For BT / BLE: 2400-2500MHz: ANT A: 2.32dBi For WLAN: 2400-2500MHz: ANT A: 2.32dBi, ANT B: 2.25dBi 5150-5250MHz: ANT A: 1.75dBi, ANT B: 2.17dBi 5250-5350MHz: ANT A: 2.34dBi, ANT B: 2.17dBi 5470-5725MHz: ANT A: 2.25dBi, ANT B: 2.35dBi 5725-5850MHz: ANT A: 2.65dBi, ANT B: 2.42dBi 5925~6425MHz:ANT A: 2.36dBi, ANT B: 2.58dBi 6425~6525MHz:ANT A: 2.38dBi, ANT B: 2.05dBi 6525~6875MHz:ANT A: 2.38dBi, ANT B: 2.47dBi 6875~7125MHz:ANT A: 2.28dBi, ANT B: 2.25dBi
Adapter	Brand: Billion Model: BA090-190474MBX Brand: Billion Model: BA070-190342MBX Brand: Delta Model: ADP-65JH HB
Power Cable(EU)*2	Brand: I-SHENG Model: CAB-PWR-EU-3 LOBE-1.8M-BLK-R
Power Cable(US)*2	Brand: I-SHENG Model: CAB-PWR-US-3 LOBE-1.8M-BLK-R
Type-C Cable	Brand: Hotron Model: E113033 CAB, USB-C TO USB-C, Z20 Gen2 15,330mm,HT
Poe Module	Brand: ELO Model: E669163, ELO-KIT-POE-ADAPTER-5.0
Panel	Brand: LG Model: M215WF3-SLS2 Brand: AUO Model: M215HAN01.2

Note:

1. EUT support TPC Function.
2. EUT supports DFS Client Mode, without radar detection.
3. WLAN and BT can simultaneously transmission.
4. The device not support Channel Puncturing or Bandwidth Reduction mechanisms supported
5. 802.11ax EUT Only Support Full RU
6. EUT Operating mode : Indoor Client.
7. For more details, please refer to the User's manual of the EUT.



2.2 Test Mode and Test Software

- During testing, the interface cables and equipment positions were varied according to ANSI C63.4.
- The complete test system included Notebook and EUT for RF test.
- An executive program, "QRCT V4.0-00189" under Windows OS system was executed to transmit and receive data via Bluetooth & WLAN..
- The following test modes were performed for the test:

Conducted Emissions from the AC mains power ports	
Test Mode	Operating Description
1	BT GFSK CH00 + 2.4G 11ax20 CH06 With Adapter
2	BT GFSK CH00 + 5G 11ax20 CH52 With Adapter
3	BT GFSK CH00 + 6G 11ax160 CH175 With Adapter
caused "Test Mode 1~3" generated the worst case, it was reported as the final data.	
Radiation Emissions (9KHz ~30MHz & 30MHz ~ 1GHz)	
Test Mode	Operating Description
1	BT GFSK CH00 + 2.4G 11ax20 CH06 With Adapter
2	BT GFSK CH00 + 5G 11ax20 CH52 With Adapter
3	BT GFSK CH00 + 6G 11ax160 CH175 With Adapter
caused "Test Mode 1~3" generated the worst case, it was reported as the final data.	
Radiation Emissions (1GHz ~ 40GHz)	
Test Mode	Operating Description
1	BT GFSK CH00 + 2.4G 11ax20 CH06 With Adapter (AC120V/60Hz)
2	BT GFSK CH00 + 5G 11ax20 CH52 With Adapter (AC120V/60Hz)
3	BT GFSK CH00 + 6G 11ax160 CH175 With Adapter (AC120V/60Hz)
caused "Test Mode 1-3" generated the worst case, it was reported as the final data.	

(BT+2.4GHz)

worst case (V)

Test Item /test voltage	AC 120V / 60Hz	AC 240V / 60Hz.
AC Power Line Conducted Emission	V	
Radiation Emissions (Below 1GHz)		V

(BT+5GHz)

worst case (V)

Test Item /test voltage	AC 120V / 60Hz	AC 240V / 60Hz.
AC Power Line Conducted Emission		V
Radiation Emissions (Below 1GHz)		V

(BT+6GHz)

worst case (V)

Test Item /test voltage	AC 120V / 60Hz	AC 240V / 60Hz.
AC Power Line Conducted Emission	V	
Radiation Emissions (Below 1GHz)		V



2.3 Description of Test System

Radiated Emissions				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	DELL	Latitude E5450	N/A	Adapter / 1.8m / NS
USB Cable (A to A)	BENEVO	E210567AWM	1m / NS	N/A
RJ45 Cable	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A
HDD	TOSHIBA	TS1TSJ25M3S	N/A	N/A
Type-C Cable	DXDC	C8A1M3A02G1M0	0.4m/NA	N/A
POE	Bluewave	JS-100GT	N/A	N/A
AC Power Line Conducted Emission				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	DELL	Latitude E5470	N/A	Adapter / 1.8m / NS
USB Cable (A to A)	BENEVO	E210567AWM	1m / NS	N/A
Flash*4	TranScend	USB3.0 16GB	N/A	N/A
RJ45 Cable	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A
RJ45 Cable	TE CONNECTIVITY	CAT5E	15m / NS	N/A
HDD	TOSHIBA	TS1TSJ25M3S	N/A	N/A
Cash Drawer	EBN	EB-35064S-F1	N/A	1.8m / NS
POE	Bluewave	JS-100GT	N/A	N/A

**2.4 General Information of Test**

Organization	CerpPASS Technology Corp.		
☒ Test Site	CerpPASS Technology Corporation Test Laboratory Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.) Tel: +886-3-3226-888 Fax: +886-3-3226-881		
	FCC	TW1439, TW1079	
	ISED Company Number	4934E	
	ISED CAB identifier	TW1439	
Frequency Range Investigated	Conducted: from 150kHz to 30 MHz Radiation: from 9 kHz to 40,000MHz		
Test Distance	The test distance of radiated emission from antenna to EUT is 3 M.		

Test Item	Test Site	Test Period	Environmental Conditions	Tested By
Radiated Emissions	3M02-NK	2024/09/10	19.6°C / 50%	Leon Huang
Radiated Emissions	3M02-NK	2024/10/08	22.1°C / 53%	Leon Huang
AC Power Line Conducted Emission	CON02-NK	2024/10/24	25.1°C / 55%	Park Chen



2.5 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

For BT/2.4GHz/5GHz

Measurement Item	Uncertainty
AC Power Line Conduction(150K~30MHz)	±3.12dB
Radiated Spurious Emission(9KHz~30MHz)	±3.5dB
Radiated Spurious Emission(30MHz~1GHz)	±5.1dB
Radiated Spurious Emission(1GHz~40GHz)	±5.2dB
6dB Bandwidth	±5.4%
26dB Bandwidth	±4.4%
Occupied Bandwidth	±4.5%
Peak Output Power(Conducted Power Meter)	±1.1dB
Power Spectral Density	±2.0dB
Duty Cycle	±3.5%
Frequency Stability	±0.23KHz

For 6GHz

Measurement Item	Uncertainty
AC Power Line Conduction(150K~30MHz)	±3.12dB
Radiated Spurious Emission(9KHz~30MHz)	±3.4dB
Radiated Spurious Emission(30MHz~1GHz)	±5.7dB
Radiated Spurious Emission(1GHz~40GHz)	±6.8dB
6dB Bandwidth	±4.4%
26dB Bandwidth	±4.4%
Occupied Bandwidth	±4.4%
Peak Output Power(Conducted Power Meter)	±1.1dB
Power Spectral Density	±1.8dB
Duty Cycle	±1.2%
Frequency Stability	±0.21KHz



3. Test Equipment and Ancillaries Used for Tests

Test Item	Radiated Emissions				
Test Site	Semi Anechoic Room(3M02-NK)				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Bilog Antenna	Schwarzbeck	VULB9168	369	2024/02/19	2025/02/18
Active Loop Antenna	Schwarzbeck	FMZB 1513	414	2024/01/16	2025/01/15
Horn Antenna	EMCO	3115	31589	2024/02/26	2025/02/25
Horn Antenna	EMCO	3116	31974	2023/10/16	2024/10/15
EMI Receiver	ROHDE & SCHWARZ	ESR 7	101906	2024/05/13	2025/05/12
Spectrum Analyzer	ROHDE & SCHWARZ	FSV 40-N	101329	2024/07/16	2025/07/15
Preamplifier	Agilent	8449B	3008A01954	2024/03/01	2025/02/28
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2023/10/13	2024/10/12
Preamplifier	EM Electronics corp.	EM330	60659	2024/02/17	2025/02/16
Cable-6m(9k~300M)	N/A	EMC5D-BM-BM-6	130606	2024/03/13	2025/03/12
Cable-3in1(30M-1G)	HARBOUR INDUSTRIES	LL142	CCE1315	2024/02/23	2025/02/22
Cable-0.5m(1G-40G)	HUBER SUHNER	SUCOFLEX 104	805443/4	2024/03/05	2025/03/04
Cable-3m(1G-40G)	HUBER SUHNER	SUCOFLEX 104	805796/4	2024/03/05	2025/03/04
Cable-8m(1G-26.5G)	WOKEN	WCBA-WCA203SM	CCE1374	2024/03/05	2025/03/04
Cable-1m(1G-40G)	HUBER SUHNER	HUBER SUHNER / SF102	804398/2	2023/10/12	2024/10/11
Cable-3m(1G-40G)	HUBER SUHNER	HUBER SUHNER / SF102	804619/2	2023/10/12	2024/10/11
E3	AUDIX	v8.2014-8-6	RK-000529	NA	NA
Highpass Filter	Warison	WFIL-H3000-18000F-03	WRJ5CFWC2J1	2024/07/03	2025/07/02
Notch Filter	Warison	WFIL-N5925-7125F-04	WRQ4BFWC4M1	2024/03/11	2025/03/10
Hipass Filter	Warison	WFIL-H7500-18000F	WRQ4BFWC2J1	2024/03/11	2025/03/10

Test Item	AC Power Line Conducted Emission				
Test Site	CON02-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
EMI Receiver	ROHDE & SCHWARZ	ESR 7	101906	2024/05/13	2025/05/12
Two-Line V-Network	ROHDE & SCHWARZ	ENV216	102185	2024/08/27	2025/08/26
Line Impedance Stabilization Network	Schwarzbeck	NSLK 8127	8127740	2024/08/27	2025/08/26
Cable-4m(9k-3G)	EMEC	RG-223	18274M	2024/08/08	2025/08/07
E3	AUDIX	v8.2014-8-6	RK-000536	NA	NA



4. Test of AC Power Line Conducted Emission

4.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz, according to the methods defined in ANSI C63.10-2020+Cor.1-2023 and ANSI C63.10a-2024. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

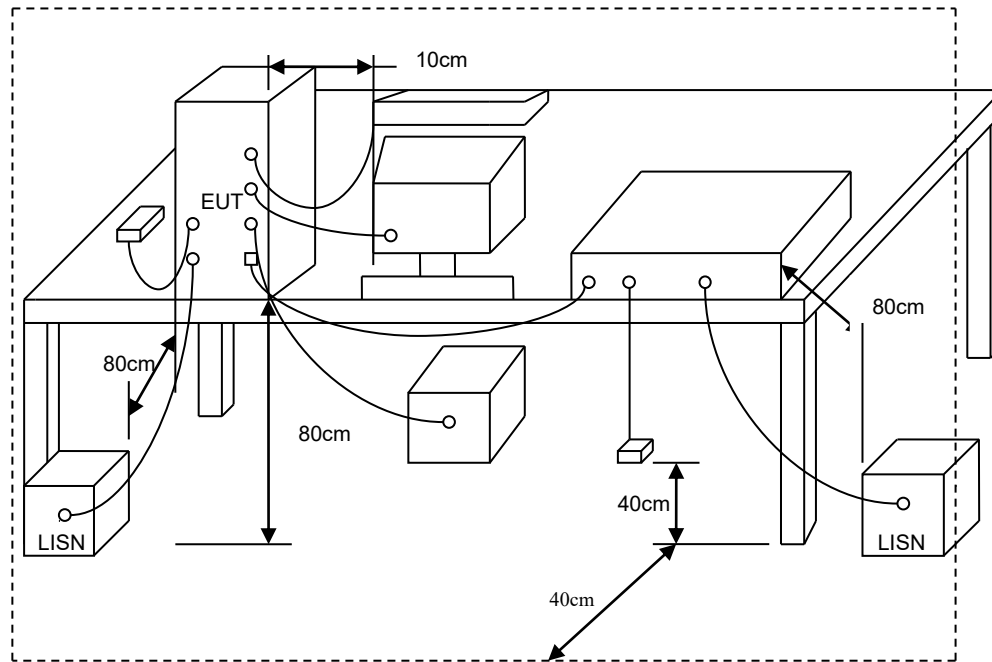
*Decreases with the logarithm of the frequency.

4.2 Test Procedures

- 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.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



4.3 Typical Test Setup



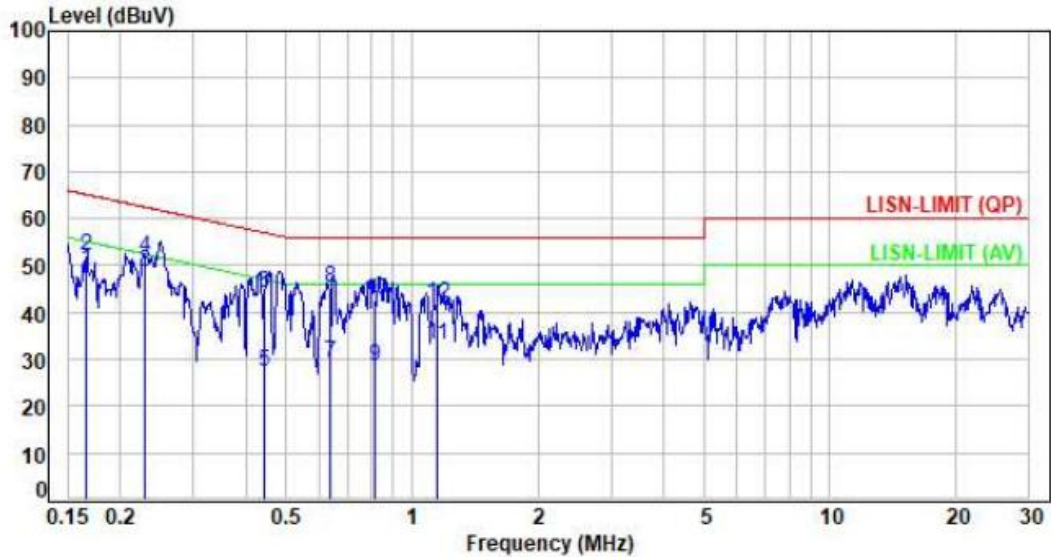


4.4 Test Result and Data

(BT+2.4G)

Test Mode : BT 1TX CH00 1Mbps+2TX 11ax20 CH06
Voltage : From Adapter(AC 120V/60Hz)
Phase : Line

Data: 52



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1659	9.63	39.57	49.20	55.16	-5.96	Average	P
2	0.1659	9.63	42.33	51.96	65.16	-13.20	QP	P
3	0.2295	9.63	38.91	48.54	52.47	-3.93	Average	P
4	0.2295	9.63	42.03	51.66	62.47	-10.81	QP	P
5	0.4426	9.65	17.76	27.41	47.01	-19.60	Average	P
6	0.4426	9.65	34.50	44.15	57.01	-12.86	QP	P
7	0.6357	9.65	19.61	29.26	46.00	-16.74	Average	P
8	0.6357	9.65	35.52	45.17	56.00	-10.83	QP	P
9	0.8112	9.65	18.91	28.56	46.00	-17.44	Average	P
10	0.8112	9.65	33.00	42.65	56.00	-13.35	QP	P
11	1.1463	9.66	23.52	33.18	46.00	-12.82	Average	P
12	1.1463	9.66	32.05	41.71	56.00	-14.29	QP	P

Note: Level=Reading+Factor

Margin=Level-Limit

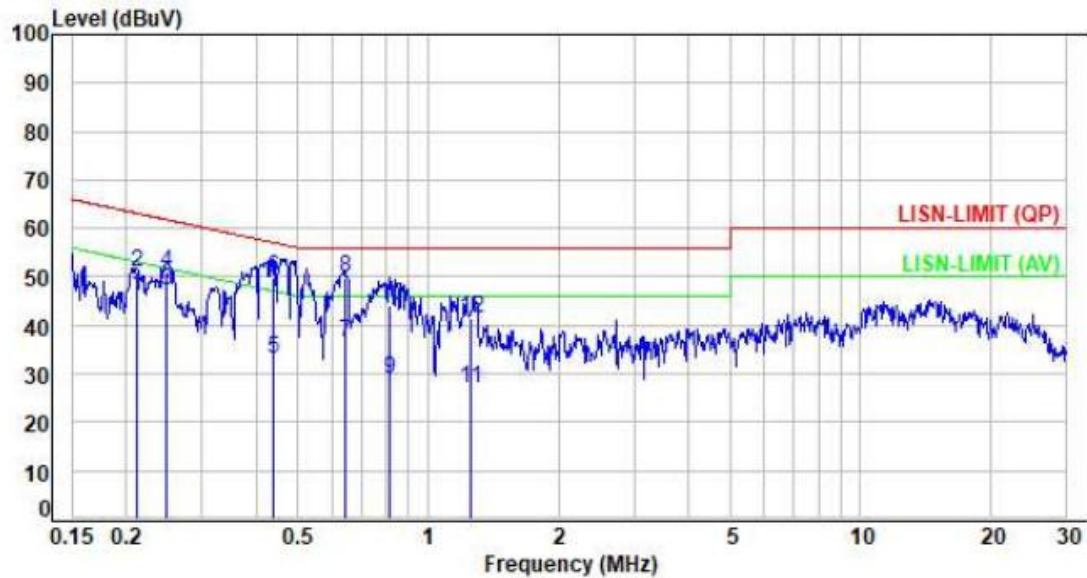
Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



(BT+2.4G)

Test Mode : BT 1TX CH00 1Mbps+2TX 11ax20 CH06
Voltage : From Adapter(AC 120V/60Hz)
Phase : Neutral

Data: 53



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2117	9.61	36.56	46.17	53.14	-6.97	Average	P
2	0.2117	9.61	41.49	51.10	63.14	-12.04	QP	P
3	0.2476	9.61	37.66	47.27	51.84	-4.57	Average	P
4	0.2476	9.61	41.24	50.85	61.84	-10.99	QP	P
5	0.4386	9.62	23.61	33.23	47.09	-13.86	Average	P
6	0.4386	9.62	40.11	49.73	57.09	-7.36	QP	P
7	0.6431	9.64	26.98	36.62	46.00	-9.38	Average	P
8	0.6431	9.64	40.26	49.90	56.00	-6.10	QP	P
9	0.8163	9.64	19.39	29.03	46.00	-16.97	Average	P
10	0.8163	9.64	34.33	43.97	56.00	-12.03	QP	P
11	1.2517	9.66	17.39	27.05	46.00	-18.95	Average	P
12	1.2517	9.66	31.88	41.54	56.00	-14.46	QP	P

Note: Level=Reading+Factor

Margin=Level-Limit

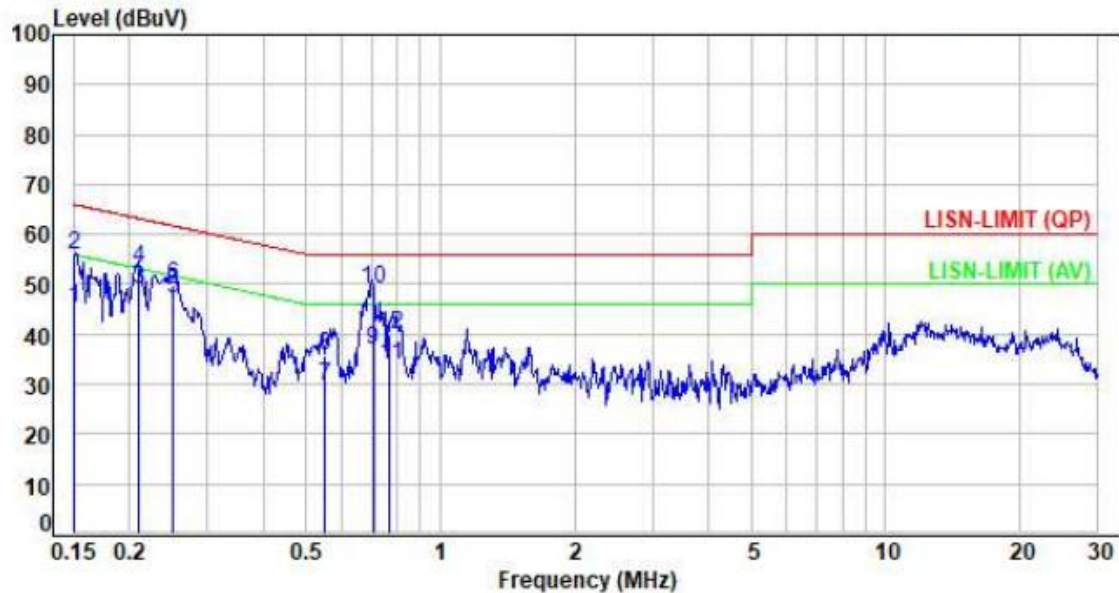
Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



(BT+5G)

Test Mode : BT 1TX CH00 1Mbps+2TX 11ax20 CH52
Voltage : From Adapter(AC 240V/60Hz)
Phase : Line

Data: 77



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1501	9.63	35.68	45.31	56.00	-10.69	Average	P
2	0.1501	9.63	46.31	55.94	66.00	-10.06	QP	P
3	0.2091	9.63	39.45	49.08	53.24	-4.16	Average	P
4	0.2091	9.63	43.48	53.11	63.24	-10.13	QP	P
5	0.2507	9.63	37.36	46.99	51.73	-4.74	Average	P
6	0.2507	9.63	40.31	49.94	61.73	-11.79	QP	P
7	0.5474	9.65	20.10	29.75	46.00	-16.25	Average	P
8	0.5474	9.65	26.17	35.82	56.00	-20.18	QP	P
9	0.7063	9.65	27.15	36.80	46.00	-9.20	Average	P
10	0.7063	9.65	39.29	48.94	56.00	-7.06	QP	P
11	0.7701	9.65	24.14	33.79	46.00	-12.21	Average	P
12	0.7701	9.65	30.10	39.75	56.00	-16.25	QP	P

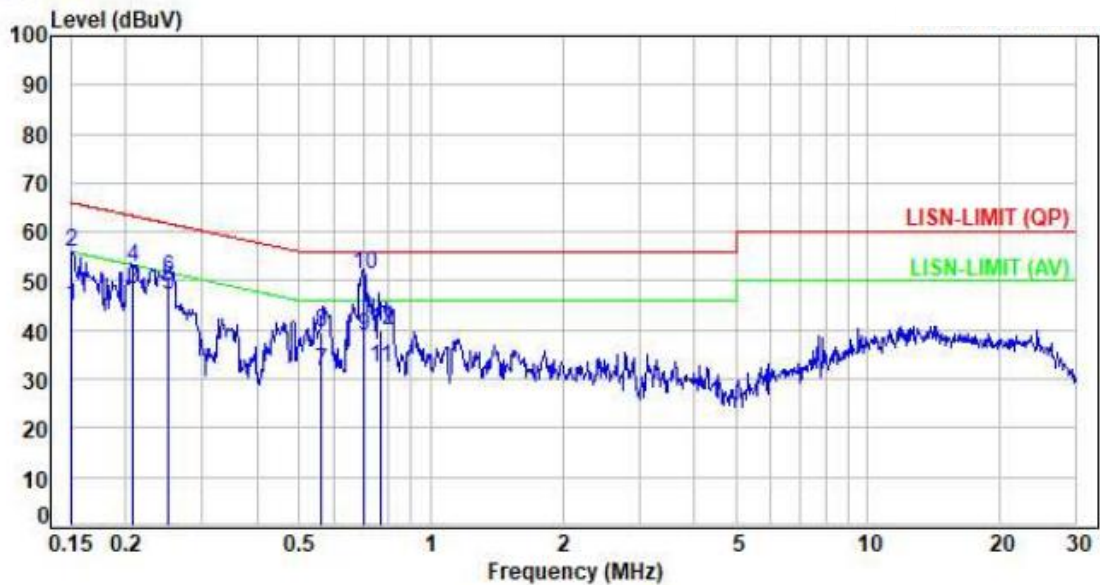
Note: Level=Reading+Factor
Margin=Level-Limit
Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



(BT+5G)

Test Mode : BT 1TX CH00 1Mbps+2TX 11ax20 CH52
Voltage : From Adapter(AC 240V/60Hz)
Phase : Neutral

Data: 78



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1500	9.61	35.27	44.88	56.00	-11.12	Average	P
2	0.1500	9.61	46.42	56.03	66.00	-9.97	QP	P
3	0.2079	9.61	38.55	48.16	53.29	-5.13	Average	P
4	0.2079	9.61	43.37	52.98	63.29	-10.31	QP	P
5	0.2495	9.61	37.72	47.33	51.77	-4.44	Average	P
6	0.2495	9.61	41.10	50.71	61.77	-11.06	QP	P
7	0.5615	9.62	21.81	31.43	46.00	-14.57	Average	P
8	0.5615	9.62	30.09	39.71	56.00	-16.29	QP	P
9	0.7055	9.64	29.03	38.67	46.00	-7.33	Average	P
10	0.7055	9.64	41.86	51.50	56.00	-4.50	QP	P
11	0.7666	9.64	22.64	32.28	46.00	-13.72	Average	P
12	0.7666	9.64	30.15	39.79	56.00	-16.21	QP	P

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



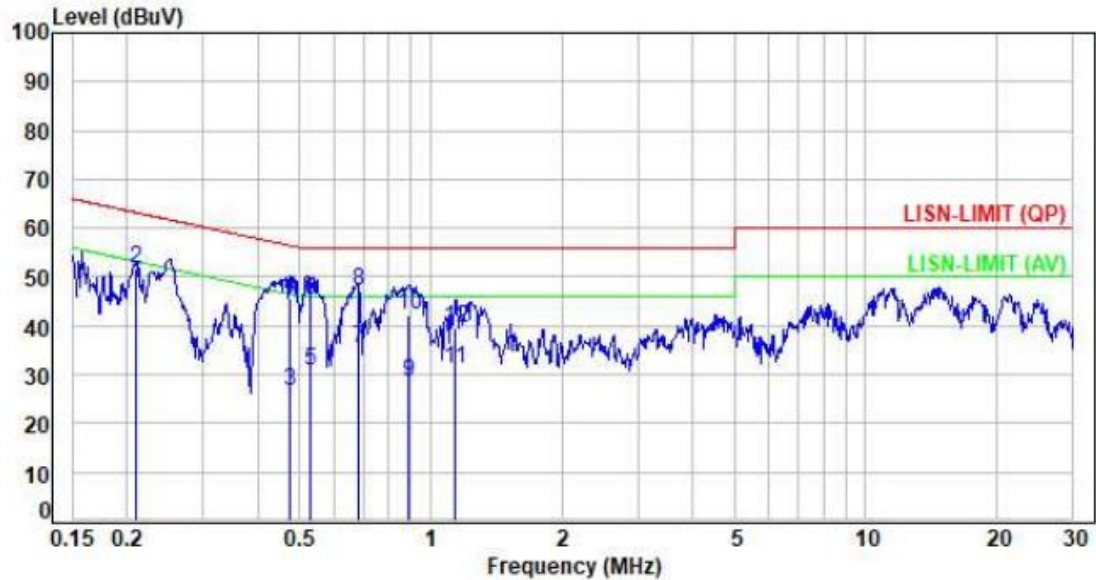
(BT+6G)

Test Mode : BT 1TX CH00 1Mbps+2TX 11ax160 CH175

Voltage : From Adapter(AC 120V/60Hz)

Phase : Line

Data: 56



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2106	9.63	38.95	48.58	53.18	-4.60	Average	P
2	0.2106	9.63	42.07	51.70	63.18	-11.48	QP	P
3	0.4747	9.65	17.13	26.78	46.43	-19.65	Average	P
4	0.4747	9.65	35.90	45.55	56.43	-10.88	QP	P
5	0.5286	9.65	21.23	30.88	46.00	-15.12	Average	P
6	0.5286	9.65	35.49	45.14	56.00	-10.86	QP	P
7	0.6793	9.65	25.69	35.34	46.00	-10.66	Average	P
8	0.6793	9.65	37.55	47.20	56.00	-8.80	QP	P
9	0.8918	9.66	18.82	28.48	46.00	-17.52	Average	P
10	0.8918	9.66	32.63	42.29	56.00	-13.71	QP	P
11	1.1367	9.66	21.66	31.32	46.00	-14.68	Average	P
12	1.1367	9.66	30.01	39.67	56.00	-16.33	QP	P

Note: Level=Reading+Factor

Margin=Level-Limit

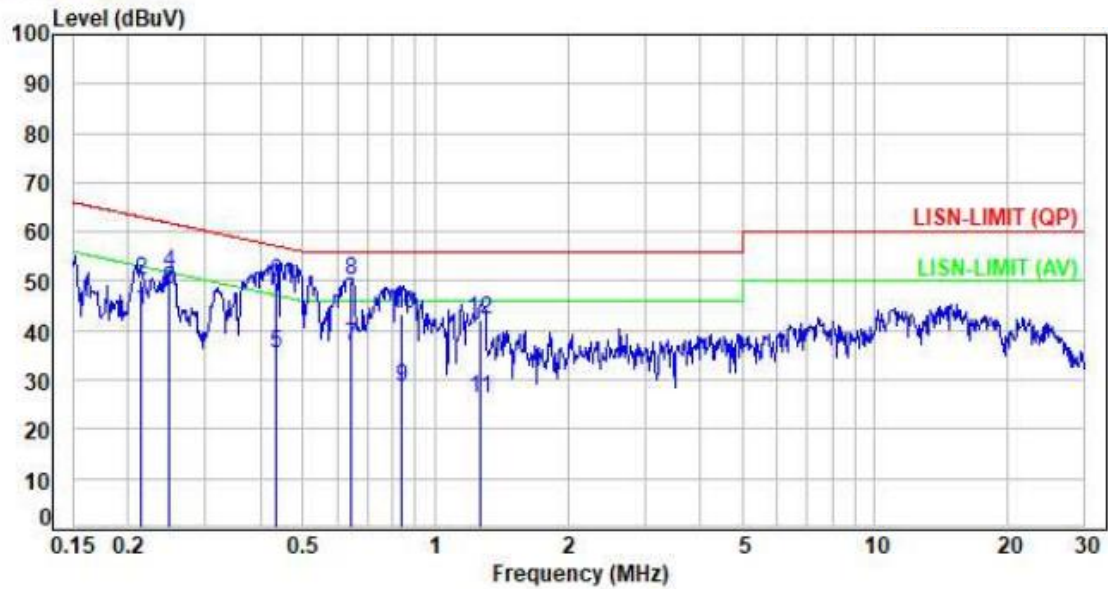
Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



(BT+6G)

Test Mode : BT 1TX CH00 1Mbps+2TX 11ax160 CH175
Voltage : From Adapter(AC 120V/60Hz)
Phase : Neutral

Data: 57



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	P/F
1	0.2135	9.61	34.53	44.14	53.07	-8.93	Average	P
2	0.2135	9.61	40.74	50.35	63.07	-12.72	QP	P
3	0.2490	9.61	38.71	48.32	51.79	-3.47	Average	P
4	0.2490	9.61	41.99	51.60	61.79	-10.19	QP	P
5	0.4360	9.62	25.71	35.33	47.14	-11.81	Average	P
6	0.4360	9.62	40.16	49.78	57.14	-7.36	QP	P
7	0.6463	9.64	27.40	37.04	46.00	-8.96	Average	P
8	0.6463	9.64	40.37	50.01	56.00	-5.99	QP	P
9	0.8424	9.65	18.95	28.60	46.00	-17.40	Average	P
10	0.8424	9.65	33.88	43.53	56.00	-12.47	QP	P
11	1.2608	9.66	16.72	26.38	46.00	-19.62	Average	P
12	1.2608	9.66	32.70	42.36	56.00	-13.64	QP	P

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



5. Test of Spurious Emission (Radiated)

5.1 Test Limit

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter measurement is based on the maximum conducted output power, the attenuation required under this paragraph shall be 30dB instead of 20dB. In addition, radiated emissions which fall in section 15.205(a) the restricted bands must also comply with the radiated emission limit specified in section 15.209(a).

Frequency (MHz)	Field Strength (microvolt/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



5.2 Test Procedures

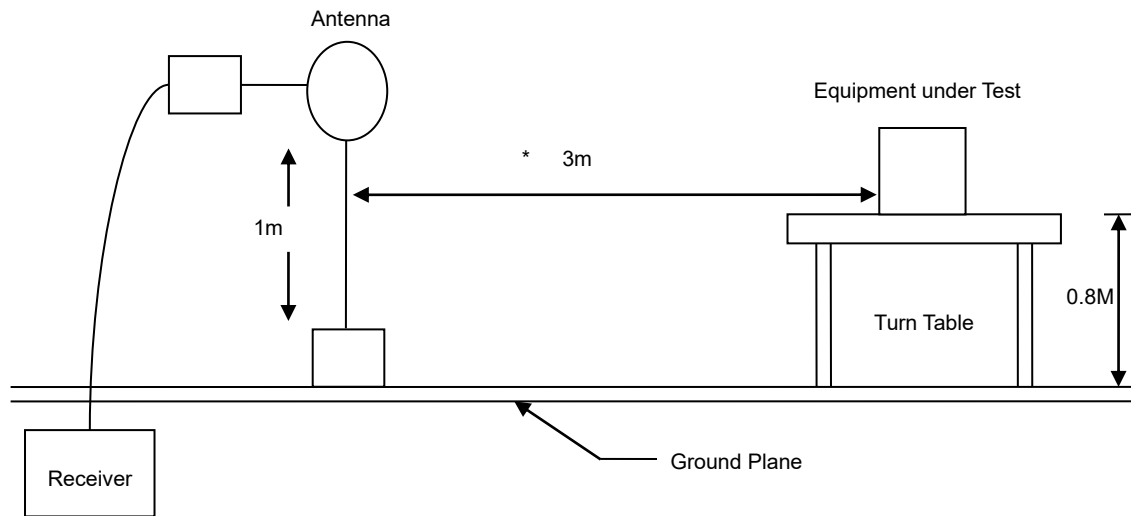
- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. 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 turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- i. "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.

Note: The supporting fixture shall permit orientation of the EUT in each of three orthogonal axis positions such that emissions from the EUT are maximized.

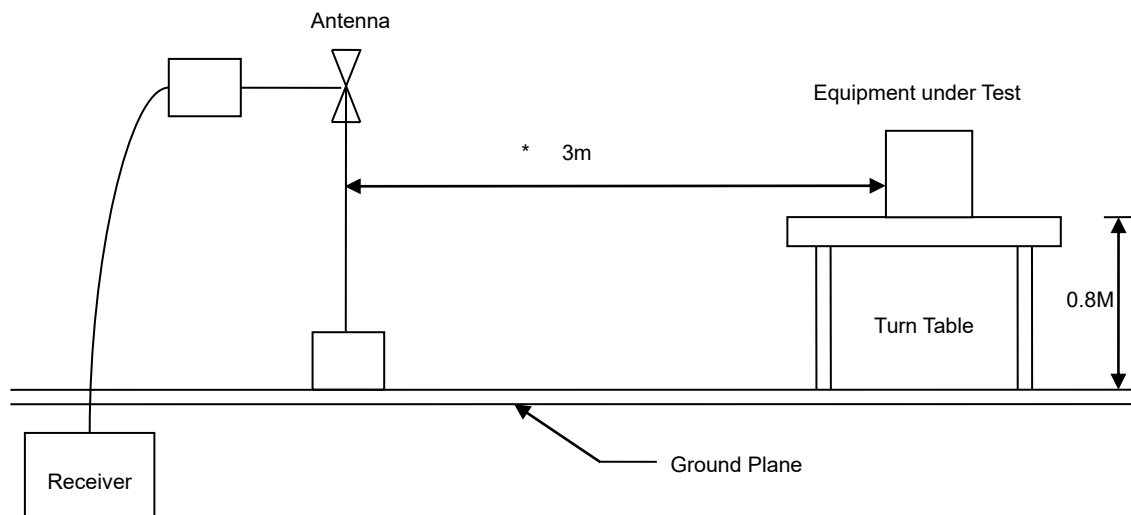


5.3 Typical Test Setup

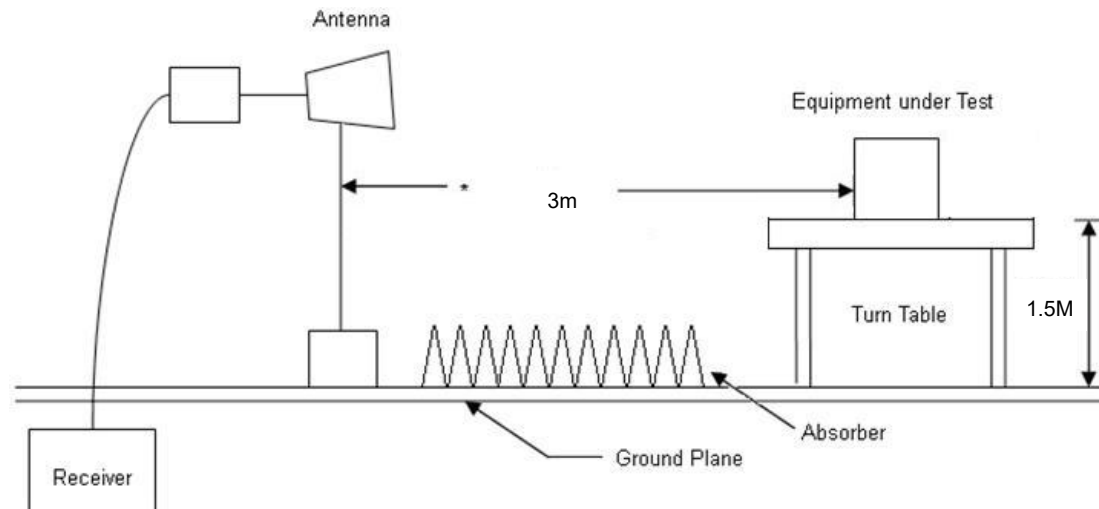
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup





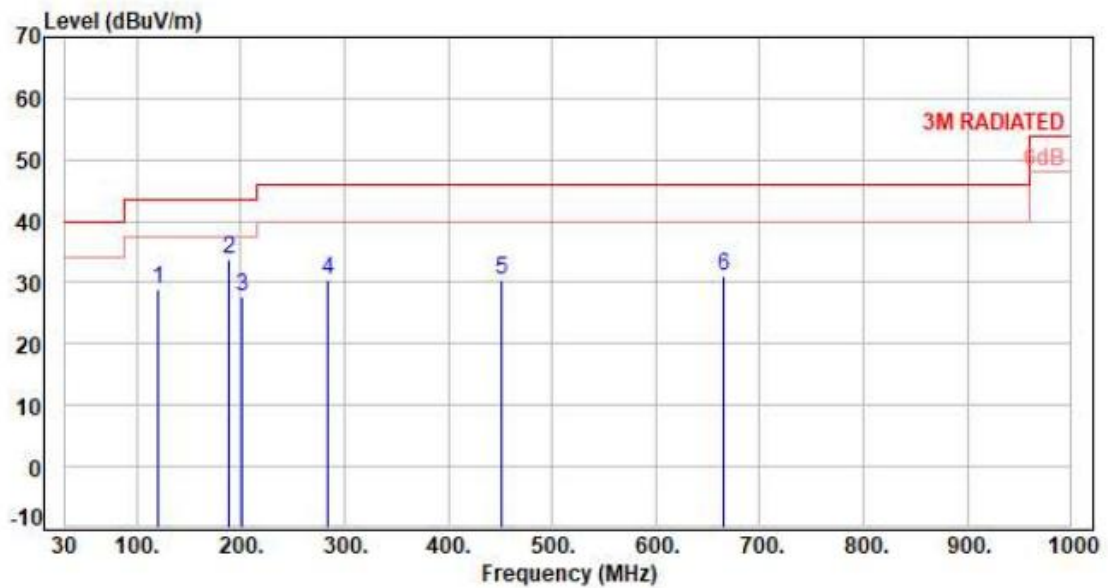
5.4 Test Result and Data (9kHz ~ 30MHz)

The 9kHz - 30MHz spurious emission is under limit 20dB more.

5.5 Test Result and Data (30MHz ~ 1GHz)

BT+2.4G

Test Mode : BT 1TX CH00 1Mbps+2TX 11ax20 CH06
Voltage : From Adapter(AC240V/60Hz)
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	120.62	-12.16	41.09	28.93	43.50	-14.57	Peak	400	360	P
2	188.62	-11.47	45.15	33.68	43.50	-9.82	Peak	400	360	P
3	201.62	-12.12	39.75	27.63	43.50	-15.87	Peak	400	360	P
4	284.68	-8.98	39.44	30.46	46.00	-15.54	Peak	400	360	P
5	450.62	-4.29	34.86	30.57	46.00	-15.43	Peak	400	360	P
6	664.62	-0.16	31.28	31.12	46.00	-14.88	Peak	400	360	P

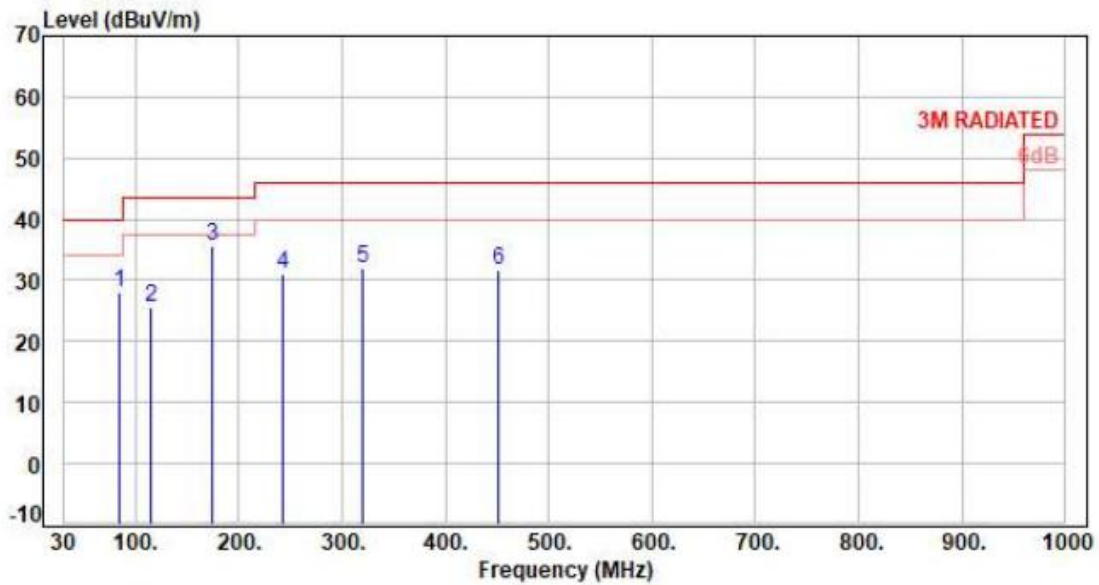
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : BT 1TX CH00 1Mbps+2TX 11ax20 CH06
Voltage : From Adapter(AC240V/60Hz)
Pol : Horizontal



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	84.61	-15.58	43.73	28.15	40.00	-11.85	Peak	400	360	P
2	114.62	-12.52	38.09	25.57	43.50	-17.93	Peak	400	360	P
3	174.62	-10.17	45.92	35.75	43.50	-7.75	Peak	400	360	P
4	241.85	-10.43	41.58	31.15	46.00	-14.85	Peak	400	360	P
5	320.18	-7.94	39.78	31.84	46.00	-14.16	Peak	400	360	P
6	450.62	-4.29	36.06	31.77	46.00	-14.23	Peak	400	360	P

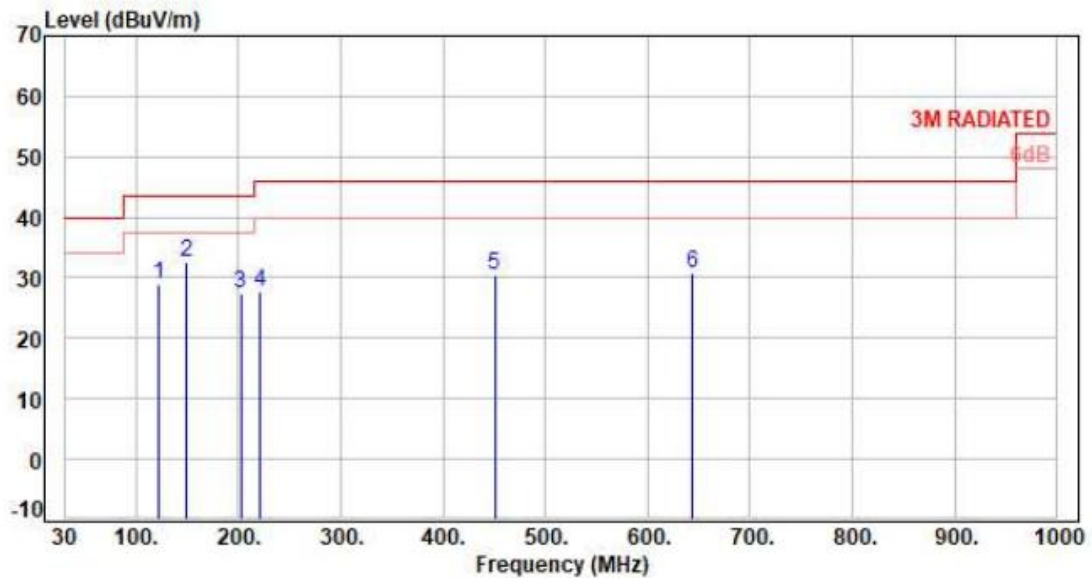
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : BT 1TX CH00 1Mbps+2TX 11ax20 CH52
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	121.88	-12.01	41.08	29.07	43.50	-14.43	Peak	400	360	P
2	148.95	-9.50	42.14	32.64	43.50	-10.86	Peak	400	360	P
3	202.16	-12.14	39.43	27.29	43.50	-16.21	Peak	400	360	P
4	221.15	-11.89	39.75	27.86	46.00	-18.14	Peak	400	360	P
5	450.31	-4.29	34.86	30.57	46.00	-15.43	Peak	400	360	P
6	644.28	-0.38	31.28	30.90	46.00	-15.10	Peak	400	360	P

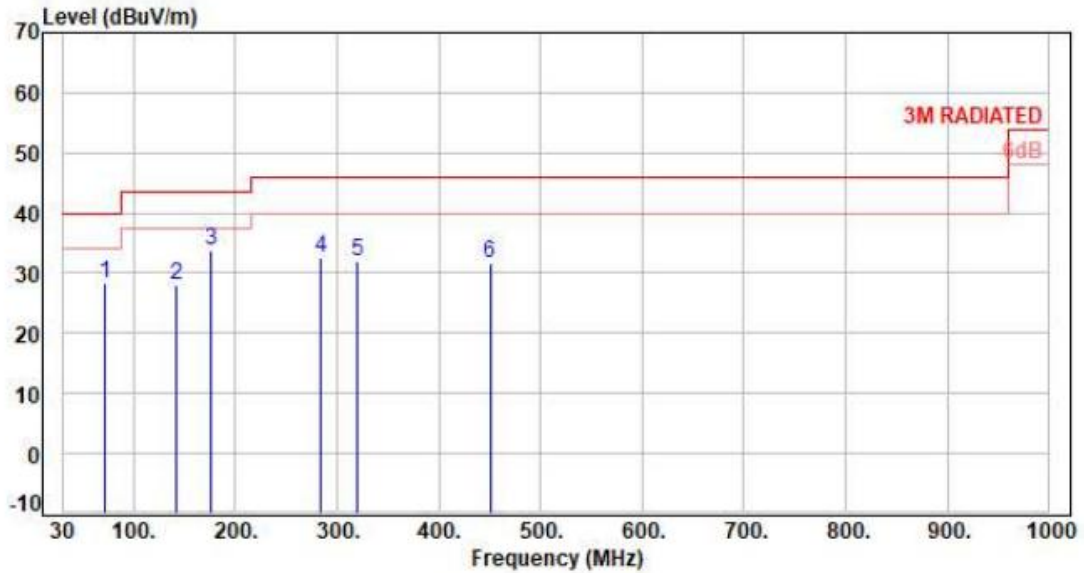
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : BT 1TX CH00 1Mbps+2TX 11ax20 CH52
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	71.62	-12.27	40.73	28.46	40.00	-11.54	Peak	400	360	P
2	142.31	-9.93	38.09	28.16	43.50	-15.34	Peak	400	360	P
3	175.62	-10.25	43.91	33.66	43.50	-9.84	Peak	400	360	P
4	284.33	-9.00	41.58	32.58	46.00	-13.42	Peak	400	360	P
5	320.16	-7.94	39.78	31.84	46.00	-14.16	Peak	400	360	P
6	450.31	-4.29	36.05	31.76	46.00	-14.24	Peak	400	360	P

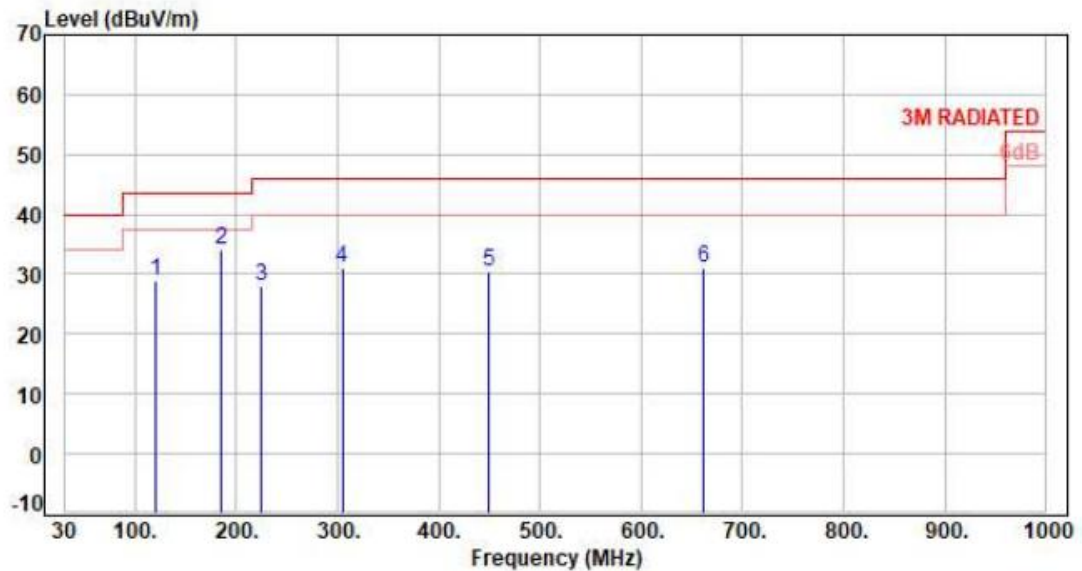
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : BT 1TX CH00 1Mbps+2TX 11ax160 CH175
Voltage : From Adapter(AC240V/60Hz)
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	120.11	-12.11	41.09	28.98	43.50	-14.52	Peak	400	360	P
2	184.62	-11.09	45.14	34.05	43.50	-9.45	Peak	400	360	P
3	224.39	-11.87	39.75	27.88	46.00	-18.12	Peak	400	360	P
4	304.61	-8.43	39.44	31.01	46.00	-14.99	Peak	400	360	P
5	450.13	-4.29	34.85	30.56	46.00	-15.44	Peak	400	360	P
6	661.84	-0.28	31.28	31.00	46.00	-15.00	Peak	400	360	P

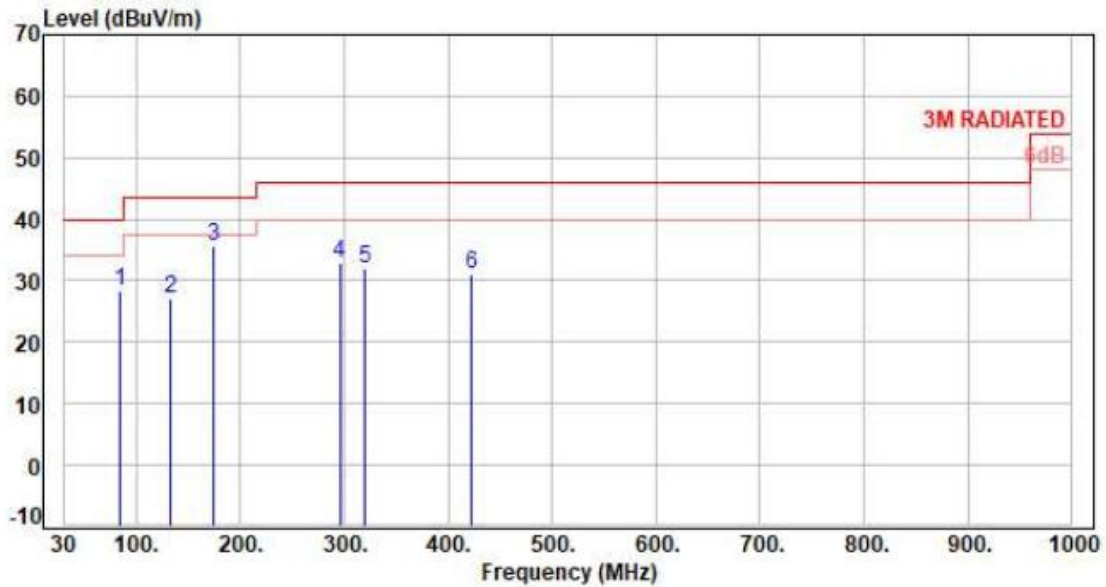
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : BT 1TX CH00 1Mbps+2TX 11ax160 CH175
Voltage : From Adapter(AC240V/60Hz)
Pol : Horizontal



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	84.44	-15.55	43.74	28.19	40.00	-11.81	Peak	400	360	P
2	132.42	-10.86	38.09	27.23	43.50	-16.27	Peak	400	360	P
3	174.63	-10.17	45.92	35.75	43.50	-7.75	Peak	400	360	P
4	295.63	-8.63	41.58	32.95	46.00	-13.05	Peak	400	360	P
5	320.62	-7.93	39.78	31.85	46.00	-14.15	Peak	400	360	P
6	421.96	-5.07	36.05	30.98	46.00	-15.02	Peak	400	360	P

Note: Level=Reading+Factor

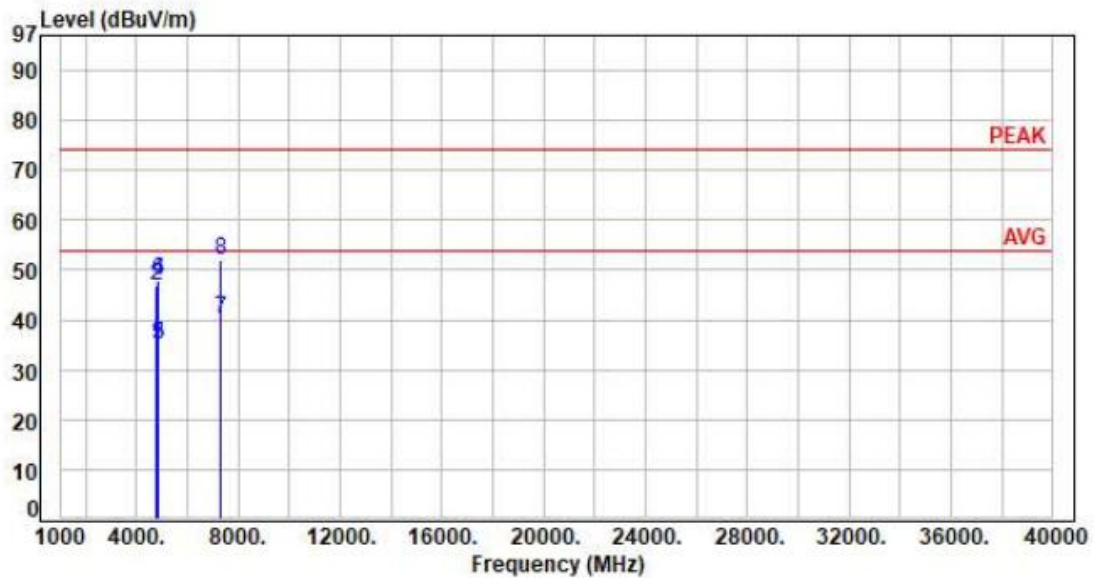
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



5.6 Test Result and Data (1GHz ~ 40GHz)

Test Mode : BT 1TX CH00 1Mbps+2TX 11ax20 CH06
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	4804.00	5.58	29.41	34.99	54.00	-19.01	Average	100	152	P
2	4804.00	5.58	41.28	46.86	74.00	-27.14	Peak	100	152	P
3	4839.00	5.68	29.44	35.12	54.00	-18.88	Average	100	252	P
4	4839.00	5.68	42.36	48.04	74.00	-25.96	Peak	100	252	P
5	4874.00	5.79	29.31	35.10	54.00	-18.90	Average	100	124	P
6	4874.00	5.79	42.13	47.92	74.00	-26.08	Peak	100	124	P
7	7311.00	10.90	29.40	40.30	54.00	-13.70	Average	100	143	P
8	7311.00	10.90	41.28	52.18	74.00	-21.82	Peak	100	143	P

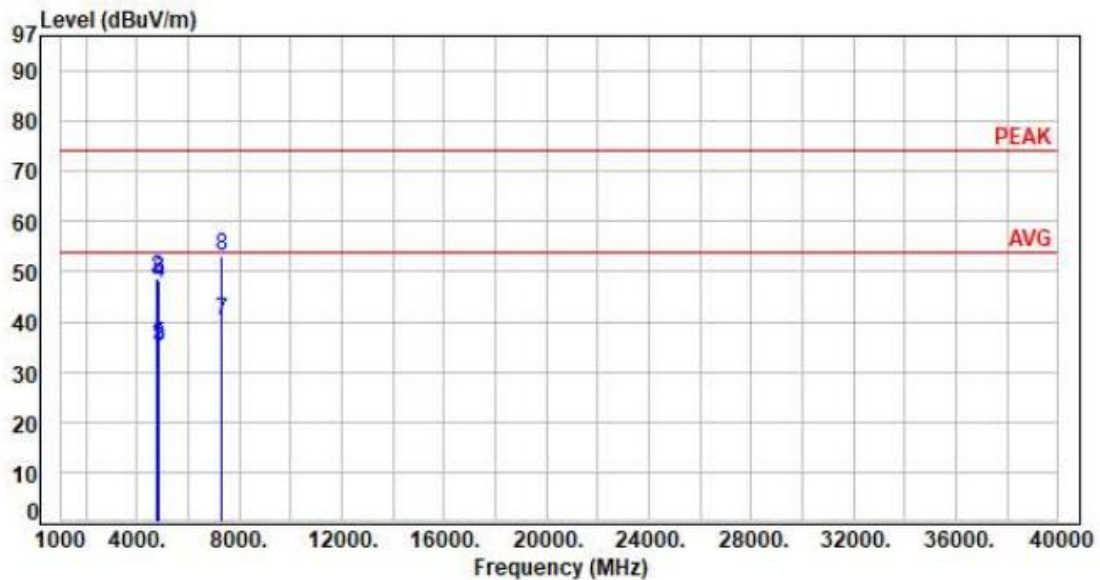
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : BT 1TX CH00 1Mbps+2TX 11ax20 CH06
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	4804.00	5.58	29.78	35.36	54.00	-18.64	Average	100	144	P
2	4804.00	5.58	42.95	48.53	74.00	-25.47	Peak	100	144	P
3	4839.00	5.68	29.48	35.16	54.00	-18.84	Average	100	142	P
4	4839.00	5.68	41.88	47.56	74.00	-26.44	Peak	100	142	P
5	4874.00	5.79	29.47	35.26	54.00	-18.74	Average	100	119	P
6	4874.00	5.79	42.68	48.47	74.00	-25.53	Peak	100	119	P
7	7311.00	10.90	29.44	40.34	54.00	-13.66	Average	100	138	P
8	7311.00	10.90	42.36	53.26	74.00	-20.74	Peak	100	138	P

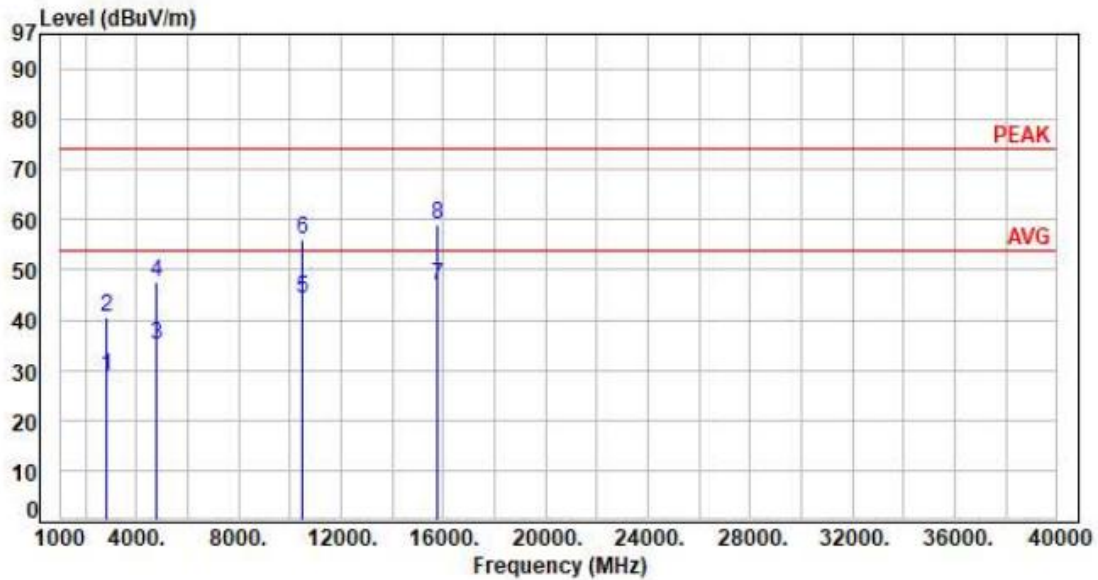
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : BT 1TX CH00 1Mbps+2TX 11ax20 CH52
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2858.00	-0.73	29.44	28.71	54.00	-25.29	Average	100	165	P
2	2858.00	-0.73	41.39	40.66	74.00	-33.34	Peak	100	165	P
3	4804.00	5.58	29.47	35.05	54.00	-18.95	Average	100	134	P
4	4804.00	5.58	41.86	47.44	74.00	-26.56	Peak	100	134	P
5	10520.00	14.67	29.49	44.16	54.00	-9.84	Average	100	123	P
6	10520.00	14.67	41.30	55.97	74.00	-18.03	Peak	100	123	P
7	15780.00	17.28	29.47	46.75	54.00	-7.25	Average	100	221	P
8	15780.00	17.28	41.68	58.96	74.00	-15.04	Peak	100	221	P

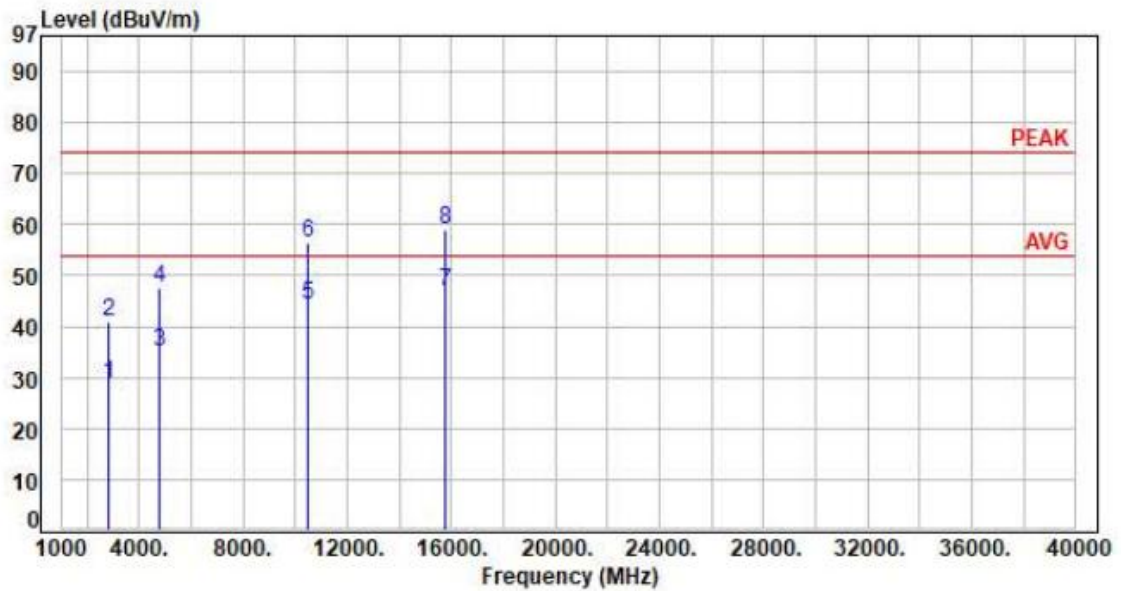
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : BT 1TX CH00 1Mbps+2TX 11ax20 CH52
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2858.00	-0.73	29.46	28.73	54.00	-25.27	Average	100	115	P
2	2858.00	-0.73	41.65	40.92	74.00	-33.08	Peak	100	115	P
3	4804.00	5.58	29.44	35.02	54.00	-18.98	Average	100	225	P
4	4804.00	5.58	42.16	47.74	74.00	-26.26	Peak	100	225	P
5	10520.00	14.67	29.48	44.15	54.00	-9.85	Average	100	123	P
6	10520.00	14.67	41.86	56.53	74.00	-17.47	Peak	100	123	P
7	15780.00	17.28	29.44	46.72	54.00	-7.28	Average	100	158	P
8	15780.00	17.28	41.68	58.96	74.00	-15.04	Peak	100	158	P

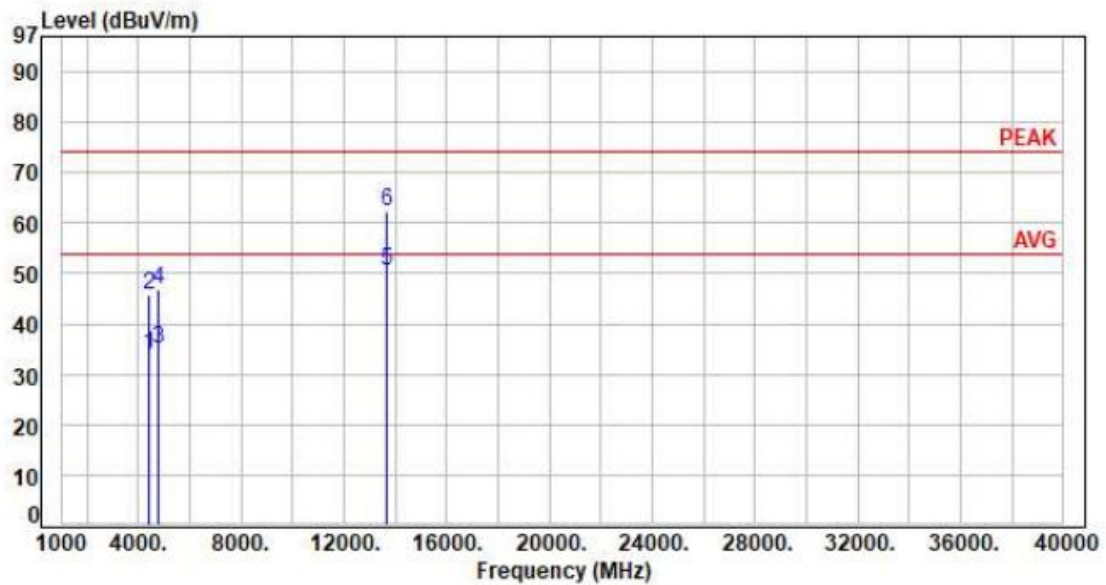
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : BT 1TX CH00 1Mbps+2TX 11ax160 CH175
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	4423.00	4.54	29.47	34.01	54.00	-19.99	Average	100	192	P
2	4423.00	4.54	41.33	45.87	74.00	-28.13	Peak	100	192	P
3	4804.00	5.58	29.44	35.02	54.00	-18.98	Average	100	152	P
4	4804.00	5.58	41.29	46.87	74.00	-27.13	Peak	100	152	P
5	13650.00	21.01	29.44	50.45	54.00	-3.55	Average	100	114	P
6	13650.00	21.01	41.36	62.37	74.00	-11.63	Peak	100	114	P

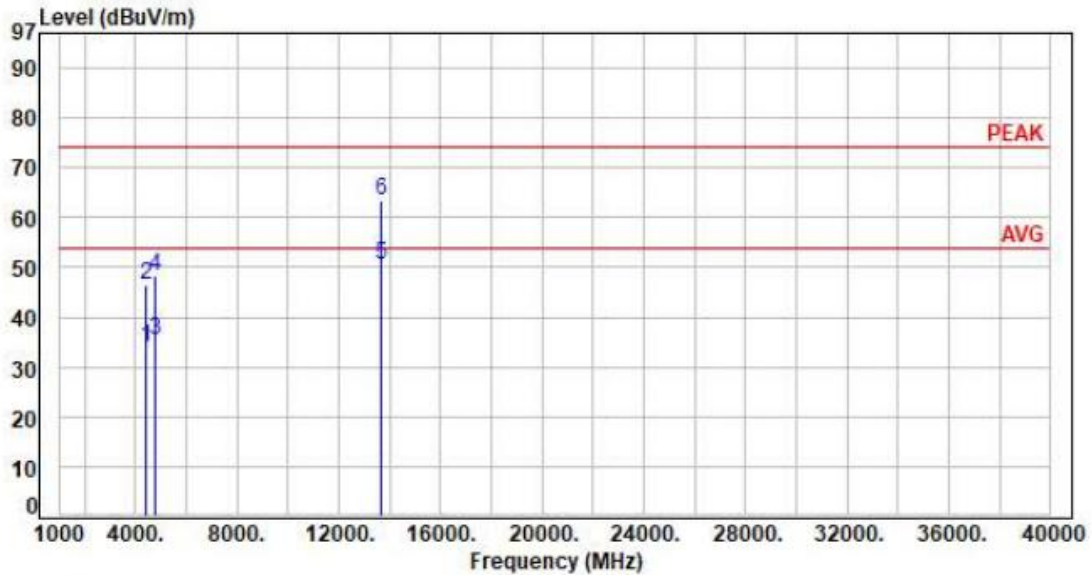
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : BT 1TX CH00 1Mbps+2TX 11ax160 CH175
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	4423.00	4.54	29.48	34.02	54.00	-19.98	Average	100	114	P
2	4423.00	4.54	41.88	46.42	74.00	-27.58	Peak	100	114	P
3	4804.00	5.58	29.88	35.46	54.00	-18.54	Average	100	146	P
4	4804.00	5.58	42.84	48.42	74.00	-25.58	Peak	100	146	P
5	13650.00	21.01	29.44	50.45	54.00	-3.55	Average	100	321	P
6	13650.00	21.01	42.61	63.62	74.00	-10.38	Peak	100	321	P

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



5.7 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.250
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

** : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz