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.	:	ESY10I1E, ESY15I1E, ESY22I1E
Trade Name	:	Elo or elo
FCC ID	:	RBWESYQC5

I HEREBY CERTIFY THAT :

The sample was received on Mar. 07, 2025 and the testing was completed on May. 13, 2025 at Cerpass Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Mark Liao / Supervisor

Laboratory Accreditation:

Cerpass Technology Corporation Test Laboratory

CONTENTS

History of this test report

Report No.	Issued Date	Description
24070407-TRFCC06	Nov. 18, 2024	Original
24110305-TRFCC05	Jan. 17, 2025	Add Base (Brand: ELO, Model: KIT, 20-POS-STAND).
25030004-TRFCC05	May. 16, 2025	1.Add 10" / 15" / 22" iron shell available. 2.15” inch added 2 panel reports (for this iron shell version configuration, it must include the original plastic panel, a total of four models). -Brand: BOE, Model: PV156FHM-N30 -Brand: AUO,Model: A156HAN01.1 3.The original design was external PoE, but this time the application was changed to built-in PoE or without PoE (for this iron shell version configuration). 4.The antenna gain value becomes smaller and the antenna position moves (for this iron shell version configuration). 5.The iron shell version does not come with a base, so there is no adapter(Billion/BS180-240625MBX(150W)&DELTA/ADP-150EH B (150W)) that comes with the base. 6.This application does not come with an SD Card slot (for this iron shell version configuration).

1. Summary of Test Procedure and Test Results

1.1. Applicable Standards

ANSI C63.10:2013

FCC Rules and Regulations Part 15 Subpart E §15.407

KDB 789033 D02 v02r01

KDB 987594 D01 v03r01

KDB 987594 D02 v03

The following reference test guidance is not within the scope of accreditation of TAF.

FCC KDB 662911 D01 v02r01

FCC KDB 412172 D01 v01r01

FCC Rule	Description of Test	Result	Remark
15.203	Antenna Requirement	PASS	-
15.207(a)	AC Power Line Conducted Emission	PASS	-
15.407(b) 15.209	Undesirable Emission	PASS	-
15.407(a)	Maximum Equivalent Isotopically Radiated Power (E.I.R.P.)	PASS	-
2.1091	Radio Frequency Exposure	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.
*This EUT has been also tested and compiled with the requirement of FCC Part 15, Subpart B, recorded in a separate test report(25030004-TEFV01).

*The difference is list below:
1.Add 10" / 15" / 22" iron shell available.
2.15” inch added 2 panel reports (for this iron shell version configuration, it must include the original plastic panel, a total of four models).
-Brand: BOE, Model: PV156FHM-N30
-Brand: AUO,Model: A156HAN01.1
3.The original design was external PoE, but this time the application was changed to built-in PoE or without PoE (for this iron shell version configuration).
4.The antenna gain value becomes smaller and the antenna position moves (for this iron shell version configuration).
5.The iron shell version does not come with a base, so there is no adapter(Billion/BS180-240625MBX(150W)&DELTA/ADP-150EH B (150W)) that comes with the base.
6.This application does not come with an SD Card slot (for this iron shell version configuration).
After engineering evaluation, the following item need to retest:
1.AC Power Line Conducted Emission
2.Radiated Spurious Emission
Refer to original report for other test categories. Test report number: 24070407-TRFCC06& 24110305-TRFCC05

2. Test Configuration of Equipment under Test

2.1. Feature of Equipment under Test

Operation Frequency Range	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	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	BT: GFSK, π/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, π/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	PIFA Antenna

For 24110305

Antenna Gain (ESY10I1E)	For BT / BLE: 2400-2500MHz: ANT A: 2.01dBi For WLAN: 2400-2500MHz: ANT A: 2.01dBi, ANT B: 2.91dBi 5150-5250MHz: ANT A: 2.46dBi, ANT B: 2.22dBi 5250-5350MHz: ANT A: 2.19dBi, ANT B: 2.44dBi 5470-5725MHz: ANT A: 2.70dBi, ANT B: 2.38dBi 5725-5850MHz: ANT A: 2.70dBi, ANT B: 2.56dBi 5925~6425MHz:ANT A: 2.86dBi, ANT B: 2.54dBi 6425~6525MHz:ANT A: 2.72dBi, ANT B: 2.84dBi 6525~6875MHz:ANT A: 2.72dBi, ANT B: 2.84dBi 6875~7125MHz:ANT A: 2.46dBi, ANT B: 2.28dBi
Antenna Gain (ESY15I1E)	For BT / BLE: 2400-2500MHz: ANT A: 2.72dBi For WLAN: 2400-2500MHz: ANT A: 2.72dBi, ANT B: 2.42dBi 5150-5250MHz: ANT A: 2.44dBi, ANT B: 2.65dBi 5250-5350MHz: ANT A: 1.86dBi, ANT B: 2.69dBi 5470-5725MHz: ANT A: 2.83dBi, ANT B: 2.79dBi 5725-5850MHz: ANT A: 2.63dBi, ANT B: 2.79dBi 5925~6425MHz:ANT A: 2.53dBi, ANT B: 2.48dBi 6425~6525MHz:ANT A: 2.42dBi, ANT B: 2.44dBi 6525~6875MHz:ANT A: 2.42dBi, ANT B: 2.44dBi 6875~7125MHz:ANT A: 2.59dBi, ANT B: 2.44dBi
Antenna Gain (ESY22I1E)	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

For 25030004(New addition)

Antenna Gain (ESY10I1E)	For BT / BLE: 2400-2500MHz: ANT A: 0.79dBi For WLAN: 2400-2500MHz: ANT A: 0.79dBi, ANT B: 0.41dBi 5150-5250MHz: ANT A: 0.87dBi, ANT B: 0.92dBi 5250-5350MHz: ANT A: 0.74dBi, ANT B: 1.01dBi 5470-5725MHz: ANT A: 1.16dBi, ANT B: 1.18dBi 5725-5850MHz: ANT A: 1.09dBi, ANT B: 1.30dBi 5925~6425MHz: ANT A: 1.54dBi, ANT B: 1.49dBi 6425~6525MHz: ANT A: 1.53dBi, ANT B: 1.49dBi, 6525~6875MHz: ANT A: 1.43dBi, ANT B: 1.35dBi, 6875~7125MHz: ANT A: 1.44dBi, ANT B: 1.57dBi,
Antenna Gain (ESY15I1E)	For BT / BLE: 2400-2500MHz: ANT A: 1.45dBi For WLAN: 2400-2500MHz: ANT A: 1.45dBi, ANT B: 1.37dBi 5150-5250MHz: ANT A: 1.65dBi, ANT B: 2.03dBi 5250-5350MHz: ANT A: 1.17dBi, ANT B: 2.20dBi 5470-5725MHz: ANT A: 2.08dBi, ANT B: 2.05dBi 5725-5850MHz: ANT A: 2.01dBi, ANT B: 2.07dBi 5925~6425MHz: ANT A: 1.69dBi, ANT B: 2.52dBi, 6425~6525MHz: ANT A: 1.48dBi, ANT B: 2.04dBi, 6525~6875MHz: ANT A: 1.54dBi, ANT B: 2.04dBi, 6875~7125MHz: ANT A: 1.45dBi, ANT B: 1.88dBi,
Antenna Gain (ESY22I1E)	For BT / BLE: 2400-2500MHz: ANT A: 0.75dBi For WLAN: 2400-2500MHz: ANT A: 0.75dBi, ANT B: 0.97dBi 5150-5250MHz: ANT A: 1.49dBi, ANT B: 1.12dBi 5250-5350MHz: ANT A: 1.18dBi, ANT B: 1.12dBi 5470-5725MHz: ANT A: 1.02dBi, ANT B: 1.08dBi 5725-5850MHz: ANT A: 1.24dBi, ANT B: 1.66dBi 5925~6425MHz: ANT A: 1.25dBi, ANT B: 1.39dBi, 6425~6525MHz: ANT A: 1.41dBi, ANT B: 0.97dBi, 6525~6875MHz: ANT A: 1.41dBi, ANT B: 1.29dBi, 6875~7125MHz: ANT A: 1.75dBi, ANT B: 1.77dBi,

EUT powered by

Adapter	ESY10I1E	ESY15I1E	ESY22I1E
Brand: Billion Model: BA090-190474MBX	☒	☒	☒
Brand: Billion Model: BA070-190342MBX	☒	☒	☒
Brand: Delta Model: ADP-65JH HB	☒	☒	☒

For (E554932 KIT, Z20-POS-STAND-GEN2-10 & E767356 KIT, Z20-POS-STAND-GEN2-15):
Flip Stand Without Panel powered by

Adapter	ESY10I1E	ESY15I1E	ESY22I1E
Brand: Billion Model: BS180-240625MBX	☒	☒	☐
Brand: Delta Model: ADP-150EH B	☒	☒	☐
Brand: Billion Model: BA090-240375MBX	☒	☐	☐

For (KIT, Z20-POS-STAND):
Flip Stand Without Panel powered by

Adapter	ESY10I1E	ESY15I1E
Brand: Delta Model: ADP-150EH B	☒	☒
Brand: Billion Model: BS180-240625MBX	☒	☒

For 24110305

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
Flip Stand Without Panel (For ESY10I1E)	Brand: ELO Model: E554932 KIT, Z20-POS-STAND-GEN2-10
	Brand: ELO Model: KIT, Z20-POS-STAND
Flip Stand Without Panel (For ESY15I1E)	Brand: ELO Model: E767356 KIT, Z20-POS-STAND-GEN2-15
	Brand: ELO Model: KIT, Z20-POS-STAND
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 (ESY10I1E)	Brand: BOE Model: TV101WUM-NH3 Brand: AUO Model: G101UAN4.0
Panel (ESY15I1E)	Brand: BOE Model: BOE PV156FHM-N20 Brand: LG Model: LP156WFC-SPDZ
Panel (ESY22I1E)	Brand: LG Model: M215WF3-SLS2 Brand: AUO Model: M215HAN01.2

For 25030004(New addition)

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
Panel (ESY10I1E)	Brand: BOE Model: TV101WUM-NH3 Brand: AUO Model: G101UAN4.0
Panel (ESY15I1E)	Brand: BOE Model: BOE PV156FHM-N20 Brand: LG Model: LP156WFC-SPDZ **Brand: BOE** **Model: PV156FHM-N30(New addition)** **Brand: AUO** **Model: A156HAN01.1(New addition)**
Panel (ESY22I1E)	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.

Difference description:
For 24110305

Model No.	Remark
ESY10I1E	Only different sizes, other circuits, layout, product specifications are all the same.
ESY15I1E	
ESY22I1E	

For 25030004(New addition)

Model No.	Remark
ESY10I1E	Only different sizes, other circuits, layout, product specifications are all the same. For details, please see chapter 1.1.
ESY15I1E	
ESY22I1E	

Note: ESY22I1E(built-in PoE) was the worst case, so it was used for the test result.

2.2. Carrier Frequency of Channels

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5925 ~ 7125	802.11a, 802.11ax(HE20)	5955 ~ 7115	1~233
5925 ~ 7125	802.11ax(HE40)	5965 ~ 7085	3~227
5925 ~ 7125	802.11ax(HE80)	5985 ~ 7025	7~215
5925 ~ 7125	802.11ax(HE160)	6025 ~ 6985	15~207

The EUT incorporates a MIMO function

Modulation Type	TX CONFIGURATION
802.11a	1TX(Diversity)
802.11ax HE20	2TX
802.11ax HE40	2TX
802.11ax HE80	2TX
802.11ax HE160	2TX

2.3. Test Mode and Test Software

a. During testing, the interface cables and equipment positions were varied according to ANSI C63.10.
b. The complete test system included remote workstation and EUT for RF test. The remote workstation included Notebook.
c. An executive program, " QRCT ver. 4.0-00189" under Windows OS system was executed to transmit and receive data via WLAN.
d. The following test modes were performed for the test:

Conducted Emissions from the AC mains power ports	
Test Mode	Operating Description
1	802.11a (6Mbps)
2	802.11ax HE20 (7.3Mbps)
3	802.11ax HE40 (14.6Mbps)
4	802.11ax HE80 (30.6Mbps)
5	802.11ax HE160 (61.3Mbps)
caused "Test Mode 5" generated the worst case, it was reported as the final data.	
Radiation Emissions (9KHz ~30MHz & 30MHz ~ 1GHz)	
Test Mode	Operating Description
1	802.11a (6Mbps)
2	802.11ax HE20 (7.3Mbps)
3	802.11ax HE40 (14.6Mbps)
4	802.11ax HE80 (30.6Mbps)
5	802.11ax HE160 (61.3Mbps)
caused "Test Mode 5" generated the worst case, it was reported as the final data.	
Radiation Emissions (1GHz ~ 40GHz)	
Test Mode	Operating Description
1	802.11a (6Mbps)
2	802.11ax HE20 (7.3Mbps)
3	802.11ax HE40 (14.6Mbps)
4	802.11ax HE80 (30.6Mbps)
5	802.11ax HE160 (61.3Mbps)
caused "Test Mode 1~5" generated the worst case, they were reported as the final data.	

Note: There are two kinds of test voltage: AC 120V / 60Hz and AC 240V / 60Hz.
For AC Power Line Conducted Emission, AC 240V / 60Hz is worst case.
For Radiated Spurious Emission, AC 240V / 60Hz is worst case.
There are three types of Adapters+one PoE power supply mode.
After engineering evaluation:
For AC Power Line Conducted Emission, JS-100GT is worst case.
For Radiated Spurious Emission, ADP-65JH HB worst case.

Adapter	Brand: Delta Model: ADP-65JH HB
Adapter	Brand: Billion Model: BA090-190474MBX
Adapter	Brand: Billion Model: BA070-190342MBX
PoE	Brand: Bluewave Model: JS-100GT

There are two types of Panels: AUO&LG. After engineering evaluation, AUO is worst case, hence, is used at test report.

Panel	Brand: LG Model: M215WF3-SLS2 Brand: AUO Model: M215HAN01.2

2.4. Description of Test System

RF Conducted				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	Lenovo	L440	N/A	Adapter / 1.8m / NS
USB Cable (A to A)	BENEVO	E210567AWM	1m / NS	N/A
POE	Bluewave	JS-100GT	N/A	N/A
Radiated Emissions				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	DELL	P73G	N/A	Adapter / 1.8m / NS
USB Cable (A to A)	BENEVO	E210567AWM	1m / NS	N/A
POE	Bluewave	GP-V480-032G	N/A	N/A
RJ45 Cable	N/A	N/A	1.2m / NS	N/A
AC Power Line Conducted Emission				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	AUAS	P2430U	N/A	Adapter / 1.8m / NS
USB Cable (A to A)	BENEVO	E210567AWM	1m / NS	N/A
POE	Bluewave	JS-100GT	N/A	N/A
RJ45 Cable	N/A	N/A	1.2m / NS	N/A

2.5. General Information of Test

Organization	Cerpass Technology Corp.	
☒ Test Site	Cerpass 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
	IC	4934E-1, 4934E-2
Frequency Range Investigated	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz 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
RF Conducted	RFCON01-NK	2025/05/12	25.3°C / 50%	Leon Huang
RF Conducted	RFCON01-NK	2025/05/13	26.1°C / 52%	Leon Huang
Radiated Emissions	3M02-NK	2025/04/25	19.1°C / 61%	Leon Huang
Radiated Emissions	3M02-NK	2025/04/28	23.8°C / 49%	Park Chen
AC Power Line Conducted Emission	CON02-NK	2025/04/26	22.3℃ / 59%	Leon Huang

2.6. Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with t he 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)

Measurement Item	Uncertainty
AC Power Line Conduction(150K~30MHz)	±3.2dB
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

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	Sunol	JB1	A020514-1	2024/05/17	2025/05/16
Active Loop Antenna	EMCO	6507	00040855	2024/05/02	2025/05/01
Horn Anrenna	EMCO	3116	31974	2025/02/20	2026/02/19
Horn Antenna	EMCO	3115	31589	2024/06/27	2025/06/26
Spectrum Analyzer	ROHDE & SCHWARZ	FSV 40-N	102151	2024/08/22	2025/08/21
EMI Receiver	ROHDE & SCHWARZ	ESR 7	101906	2024/05/13	2025/05/12
Preamplifier	EMC INSTRUMENTS	EMC118A45V1SEE	980993	2024/10/24	2025/10/23
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2024/10/15	2025/10/14
Preamplifier	EM Electronics corp.	EM330	60820	2024/06/14	2025/06/13
Cable-4m(9k-3G)	EMEC	RG-223	18274M	2024/08/08	2025/08/07
Cable-3in1(30M-1G)	HARBOUR INDUSTRIES	LL142	CCE1315	2025/02/21	2026/02/20
Cable-0.5m(1G-40G)	HUBER SUHNER	SUCOFLEX 104	805443/4	2025/02/26	2026/02/25
Cable-3m(1G-40G)	HUBER SUHNER	SUCOFLEX 104	805796/4	2025/02/26	2026/02/25
Cable-8m(1G-26.5G)	WOKEN	WCBA-WCA203SM	CCE1374	2025/02/26	2026/02/25
Cable-3m(10M-40G)	HUBER SUHNER	SF102	804619/2	2024/10/14	2025/10/13
Cable-1m(10M-40G)	HUBER SUHNER	SF102	804398/2	2024/10/14	2025/10/13
Highpass Filter	Warison	WFIL-H7500-18000F	WRQ4BFWC2 J1	2025/02/21	2026/02/20
Notch Filter	Warison	WFIL-N5925-7125F-04	WRQ4BFWC4 M1	2025/02/11	2026/02/10
Highpass Filter	WOKEN	WFIL-H3000-18000F-0 3	WR377WC2B1	2024/10/15	2025/10/14
E3	AUDIX	v8.2014-8-6	RK-000529	NA	NA

Test Item	RF Conducted				
Test Site	RFCON01-NK				
Instrument	**Manufacturer**	**Model No**	**Serial No**	**Calibration Date**	**Valid Date**
CAX Signal Analyzer	KEYSIGHT	N9000B	MY57100339	2024/10/23	2025/10/22
Power Meter	Anritsu	ML2495A	1224005	2025/02/12	2026/02/11
Power Sensor	Anritsu	MA2411B	1207295	2025/02/12	2026/02/11
Attenuator	KEYSIGHT	8491B	MY39250703	2025/02/12	2026/02/11

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
Cable-4m(9k-3G)	EMEC	RG-223	18274M	2024/08/08	2025/08/07
Line Impedance Stabilization Network	Schwarzbeck	NSLK 8127	8127740	2024/08/27	2025/08/26
Two-Line V-Network	ROHDE & SCHWARZ	ENV216	102185	2024/08/27	2025/08/26
E3	AUDIX	v8.2014-8-6	RK-000531	NA	NA

4. Antenna Requirements

4.1. Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

4.2. Antenna Construction and Directional Gain

Antenna Type	PIFA Antenna
Antenna Gain (ESY10I1E)	5925~6425MHz: ANT A: 1.54dBi, ANT B: 1.49dBi 6425~6525MHz: ANT A: 1.53dBi, ANT B: 1.49dBi, 6525~6875MHz: ANT A: 1.43dBi, ANT B: 1.35dBi, 6875~7125MHz: ANT A: 1.44dBi, ANT B: 1.57dBi,
Antenna Gain (ESY15I1E)	5925~6425MHz: ANT A: 1.69dBi, ANT B: 2.52dBi, 6425~6525MHz: ANT A: 1.48dBi, ANT B: 2.04dBi, 6525~6875MHz: ANT A: 1.54dBi, ANT B: 2.04dBi, 6875~7125MHz: ANT A: 1.45dBi, ANT B: 1.88dBi,
Antenna Gain (ESY22I1E)	5925~6425MHz: ANT A: 1.25dBi, ANT B: 1.39dBi, 6425~6525MHz: ANT A: 1.41dBi, ANT B: 0.97dBi, 6525~6875MHz: ANT A: 1.41dBi, ANT B: 1.29dBi, 6875~7125MHz: ANT A: 1.75dBi, ANT B: 1.77dBi,

SISO-ANT A (ESY10I1E)

5925~6425MHz
For Power directional gain= G_{ant}=1.54 (dBi) For PSD directional gain = G_{ant}=1.54 (dBi)
6425~6525MHz
For Power directional gain= G_{ant}=1.53 (dBi) For PSD directional gain = G_{ant}= 1.53 (dBi)
6525~6875MHz
For Power directional gain= G_{ant}=1.43 (dBi) For PSD directional gain = G_{ant}=1.43 (dBi)
6875~7125MHz
For Power directional gain= G_{ant}= 1.44 (dBi) For PSD directional gain = G_{ant}= 1.44 (dBi)

SISO-ANT B

5925~6425MHz
For Power directional gain= G_{ant}=1.49 (dBi) For PSD directional gain = G_{ant}= 1.49(dBi)
6425~6525MHz
For Power directional gain= G_{ant}=1.49 (dBi) For PSD directional gain = G_{ant}= 1.49 (dBi)
6525~6875MHz
For Power directional gain= G_{ant}=1.35 (dBi) For PSD directional gain = G_{ant}=1.35 (dBi)
6875~7125MHz
For Power directional gain= G_{ant}= 1.57(dBi) For PSD directional gain = G_{ant}=1.57 (dBi)

MIMO (ESY10I1E)

5925~6425MHz
For Power directional gain= G_{ant}=1.54 (dBi) For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}]$ =4.53 (dBi)
6425~6525MHz
For Power directional gain= G_{ant}= 1.53 (dBi) For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}]$ =4.52 (dBi)
6525~6875MHz:
For Power directional gain= G_{ant}= 1.43 (dBi) For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}]$ =4.4 (dBi)
6875~7125MHz
For Power directional gain= G_{ant}= 1.57 (dBi) For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}]$ = 4.52 (dBi)

*MIMO type: Cyclic Delay Diversity (CDD) mode.

SISO-ANT A (ESY15I1E)

5925~6425MHz
For Power directional gain= G_{ant}=1.69 (dBi) For PSD directional gain = G_{ant}= 1.69 (dBi)
6425~6525MHz
For Power directional gain= G_{ant}=1.48 (dBi) For PSD directional gain = G_{ant}= 1.48 (dBi)
6525~6875MHz
For Power directional gain= G_{ant}=1.54 (dBi) For PSD directional gain = G_{ant}= 1.54 (dBi)
6875~7125MHz
For Power directional gain= G_{ant}= 1.45 (dBi) For PSD directional gain = G_{ant}=1.45 (dBi)

SISO-ANT B

5925~6425MHz
For Power directional gain= G_{ant}=2.52 (dBi) For PSD directional gain = G_{ant}= 2.52(dBi)
6425~6525MHz
For Power directional gain= G_{ant}= 2.04 (dBi) For PSD directional gain = G_{ant}= 2.04(dBi)
6525~6875MHz
For Power directional gain= G_{ant}= 2.04 (dBi) For PSD directional gain = G_{ant}= 2.04 (dBi)
6875~7125MHz
For Power directional gain= G_{ant}=1.88 (dBi) For PSD directional gain = G_{ant}= 1.88 (dBi)

MIMO (ESY15I1E)

5925~6425MHz
For Power directional gain= G_{ant}=2.52 (dBi) For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}] = 5.13$ (dBi)
6425~6525MHz
For Power directional gain= G_{ant}= 2.04 (dBi) For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}] = 4.77$ (dBi)
6525~6875MHz:
For Power directional gain= G_{ant}= 2.04 (dBi) For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}] = 4.8$ (dBi)
6875~7125MHz
For Power directional gain= G_{ant}=1.88 (dBi) For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}] = 4.68$ (dBi)

*MIMO type: Cyclic Delay Diversity (CDD) mode.

SISO-ANT A (ESY22I1E)

5925~6425MHz
For Power directional gain= G_{ant}=1.25 (dBi) For PSD directional gain = G_{ant}=1.25 (dBi)
6425~6525MHz
For Power directional gain= G_{ant}= 1.41 (dBi) For PSD directional gain = G_{ant}= 1.41 (dBi)
6525~6875MHz
For Power directional gain= G_{ant}= 1.41 (dBi) For PSD directional gain = G_{ant}=1.41 (dBi)
6875~7125MHz
For Power directional gain= G_{ant}= 1.75 (dBi) For PSD directional gain = G_{ant}=1.75 (dBi)

SISO-ANT B

5925~6425MHz
For Power directional gain= G_{ant}=1.39 (dBi) For PSD directional gain = G_{ant}=1.39 (dBi)
6425~6525MHz
For Power directional gain= G_{ant}= 0.97 (dBi) For PSD directional gain = G_{ant}= 0.97 (dBi)
6525~6875MHz
For Power directional gain= G_{ant}= 1.29 (dBi) For PSD directional gain = G_{ant}= 1.29 (dBi)
6875~7125MHz
For Power directional gain= G_{ant}= 1.77 (dBi) For PSD directional gain = G_{ant}=1.77 (dBi)

MIMO (ESY22I1E)

5925~6425MHz
For Power directional gain= G_{ant}= 1.39 (dBi) For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}] = 4.33$(dBi)
6425~6525MHz
For Power directional gain= G_{ant}=1.41 (dBi) For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}] = 4.2$ (dBi)
6525~6875MHz:
For Power directional gain= G_{ant}= 1.41 (dBi) For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}] = 4.36$ (dBi)
6875~7125MHz
For Power directional gain= G_{ant}= 1.77 (dBi) For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}] = 4.77$ (dBi)

*MIMO type: Cyclic Delay Diversity (CDD) mode.

5. Test of AC Power Line Conducted Emission

5.1. 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 C63.10-2013. 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.

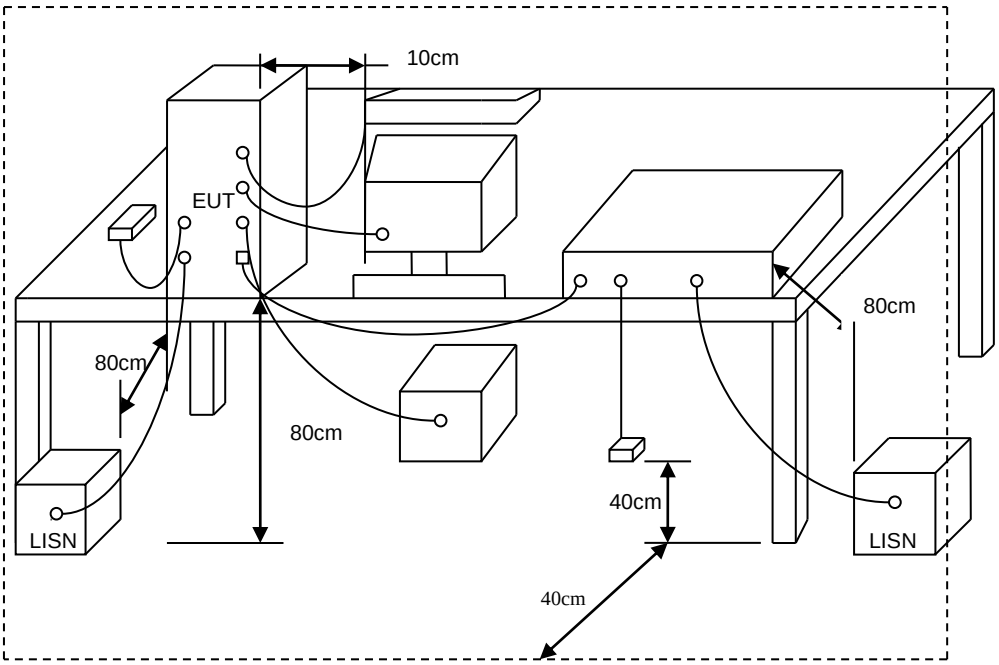
Frequency (MHz)	Quasi Peak (dBμV)	Average (dBμV)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

*Decreases with the logarithm of the frequency.

5.2. Test Procedures

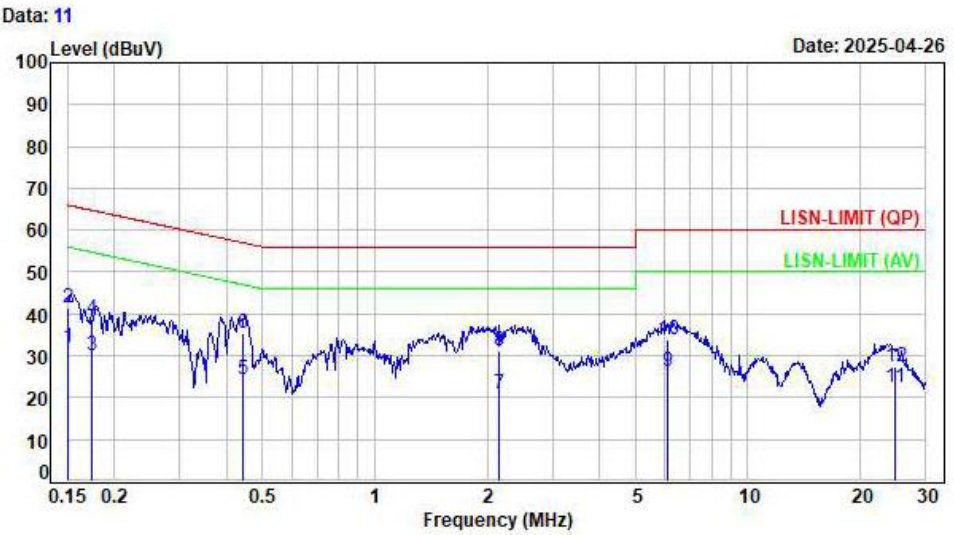
a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
c. All the support units are connecting to the other LISN.
d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
f. Both sides of AC line were checked for maximum conducted interference.
g. The frequency range from 150 kHz to 30 MHz was searched.
h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

5.3. Typical Test Setup



5.4. Test Result and Data

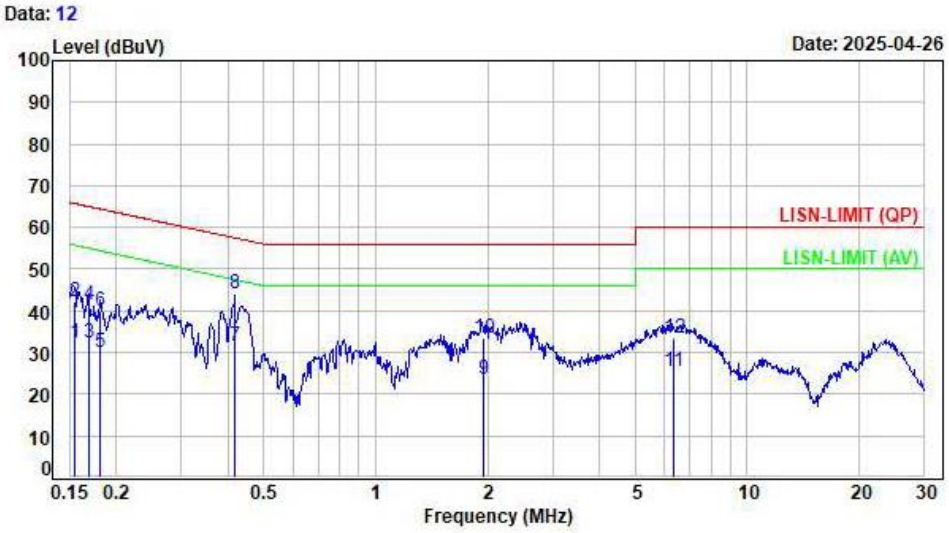
Test Mode : 2TX 11ax160 CH175 NSS1 MCS0
Voltage : From POE(AC 240V/60Hz)
Phase : Line



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1504	9.63	22.33	31.96	55.98	-24.02	Average	P
2	0.1504	9.63	31.72	41.35	65.98	-24.63	QP	P
3	0.1735	9.63	20.57	30.20	54.79	-24.59	Average	P
4	0.1735	9.63	29.19	38.82	64.79	-25.97	QP	P
5	0.4443	9.65	14.86	24.51	46.98	-22.47	Average	P
6	0.4443	9.65	25.63	35.28	56.98	-21.70	QP	P
7	2.1433	9.69	11.40	21.09	46.00	-24.91	Average	P
8	2.1433	9.69	21.55	31.24	56.00	-24.76	QP	P
9	6.1111	9.77	16.51	26.28	50.00	-23.72	Average	P
10	6.1111	9.77	23.97	33.74	60.00	-26.26	QP	P
11	24.8558	9.93	12.36	22.29	50.00	-27.71	Average	P
12	24.8558	9.93	17.31	27.24	60.00	-32.76	QP	P

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

Test Mode : 2TX 11ax160 CH175 NSS1 MCS0
Voltage : From POE(AC 240V/60Hz)
Phase : Neutral



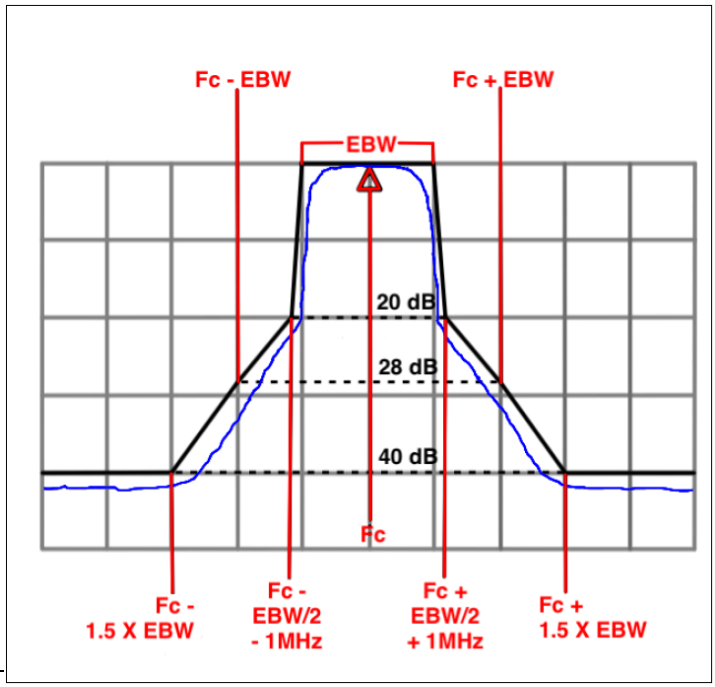
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1542	9.61	22.87	32.48	55.77	-23.29	Average	P
2	0.1542	9.61	32.48	42.09	65.77	-23.68	QP	P
3	0.1697	9.61	22.53	32.14	54.98	-22.84	Average	P
4	0.1697	9.61	31.78	41.39	64.98	-23.59	QP	P
5	0.1820	9.61	20.48	30.09	54.39	-24.30	Average	P
6	0.1820	9.61	30.36	39.97	64.39	-24.42	QP	P
7	0.4169	9.62	21.92	31.54	47.51	-15.97	Average	P
8	0.4169	9.62	34.37	43.99	57.51	-13.52	QP	P
9	1.9480	9.67	14.08	23.75	46.00	-22.25	Average	P
10	1.9480	9.67	23.97	33.64	56.00	-22.36	QP	P
11	6.3368	9.77	15.52	25.29	50.00	-24.71	Average	P
12	6.3368	9.77	23.72	33.49	60.00	-26.51	QP	P

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

6. Test of Undesirable Emission (Radiated)

6.1. Test Limit

Un-restricted band emissions above 1GHz Limit

Frequency	Limit
Any outside the 5.945 – 7.125 GHz emission	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
	Note : -27 dBm EIRP OOBE is measured RMS which is a deviation from the current 15E rules for 5 GHz bands. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit.
5.945 – 7.125 GHz	Emission MASK Limit
	Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than oneand one-half times the channel bandwidth must be suppressed by at least 40 dB.
	

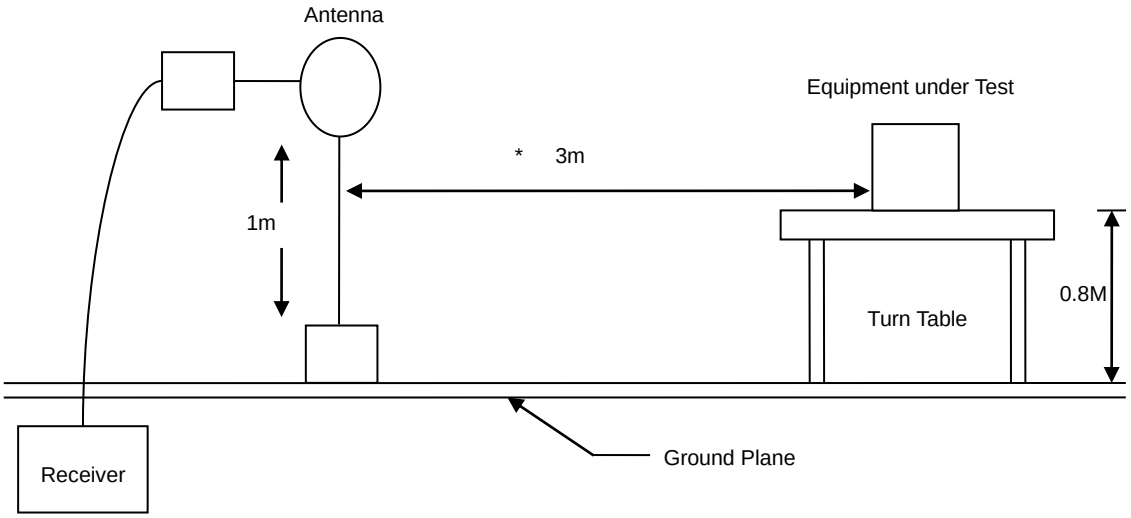
6.2. Test Procedures

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.

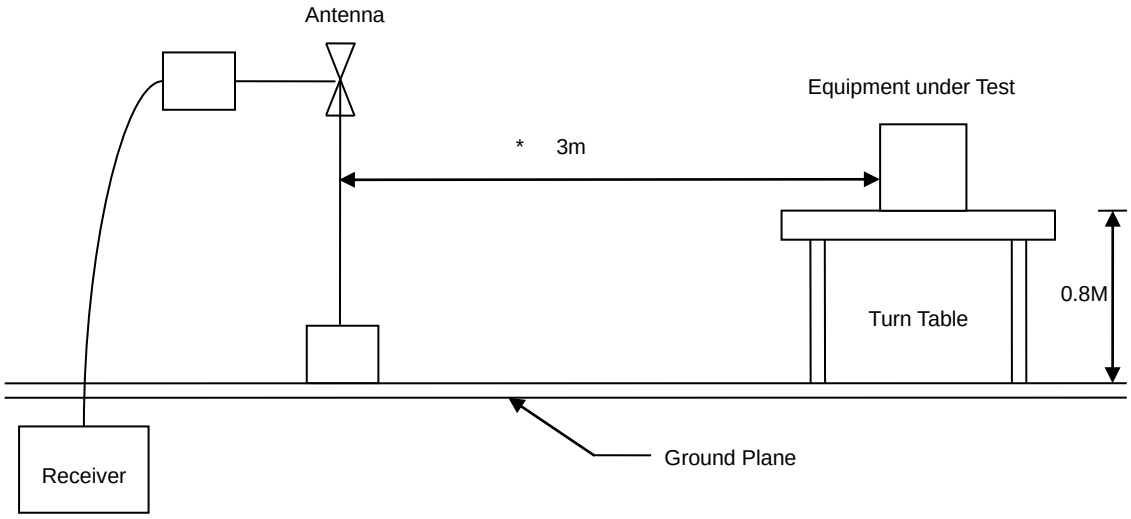
Note: The supporting fixture shall permit orientation of the EUT in each of three orthogonal axis positions such that emissions from the EUT are maximized.
(Y-AXIS is the worst.)

6.3. Typical Test Setup

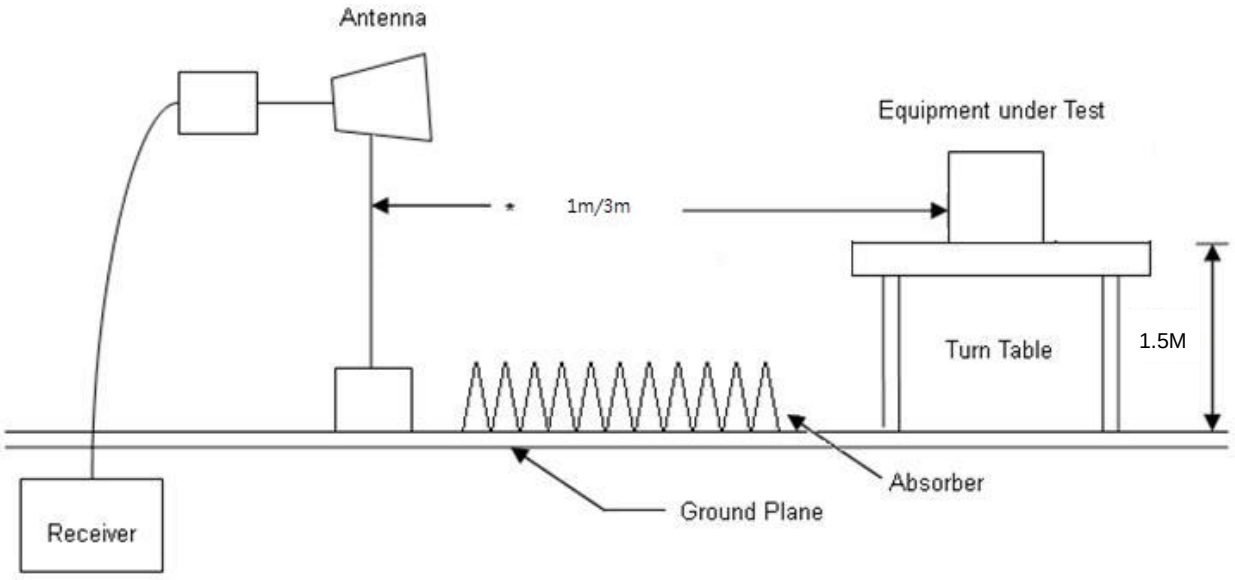
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup

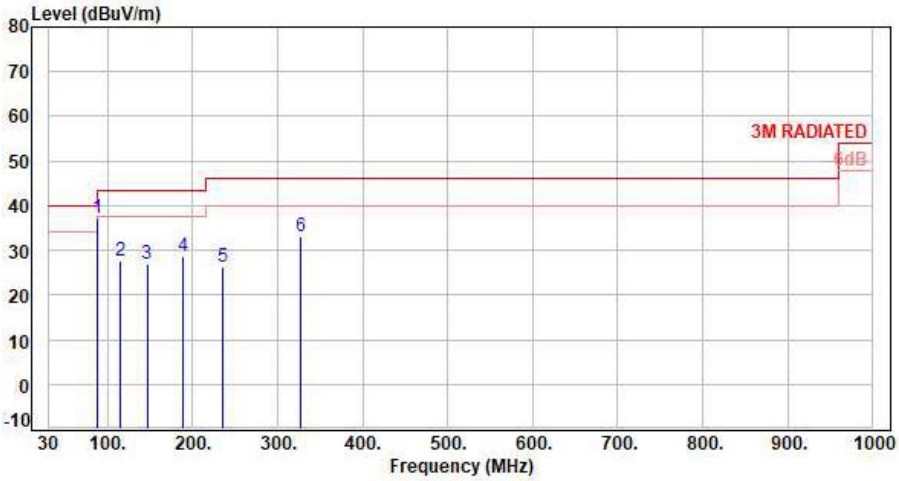


6.4. Test Result and Data (9kHz ~ 30MHz)

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

6.5. Test Result and Data (30MHz ~ 1GHz)

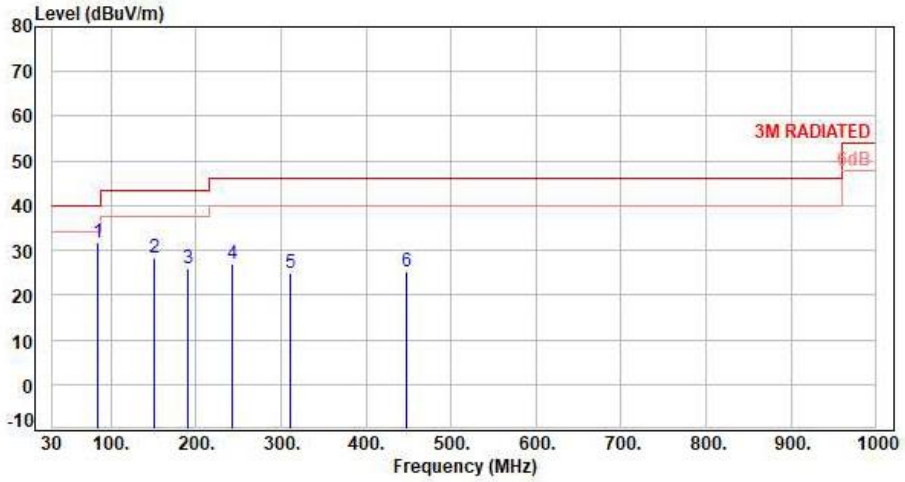
Test Mode : 2TX 11ax160 CH175 NSS1 MCS0
Voltage : From Adapter(AC240V/60Hz)
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	88.20	-15.91	53.21	37.30	43.50	-6.20	Peak	400	360	P
2	114.39	-12.77	40.52	27.75	43.50	-15.75	Peak	400	360	P
3	146.40	-9.84	36.90	27.06	43.50	-16.44	Peak	400	360	P
4	189.08	-11.58	40.09	28.51	43.50	-14.99	Peak	400	360	P
5	235.64	-10.99	37.25	26.26	46.00	-19.74	Peak	400	360	P
6	326.82	-7.02	40.18	33.16	46.00	-12.84	Peak	400	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Test Mode : 2TX 11ax160 CH175 NSS1 MCS0
Voltage : From Adapter(AC240V/60Hz)
Pol : Horizontal



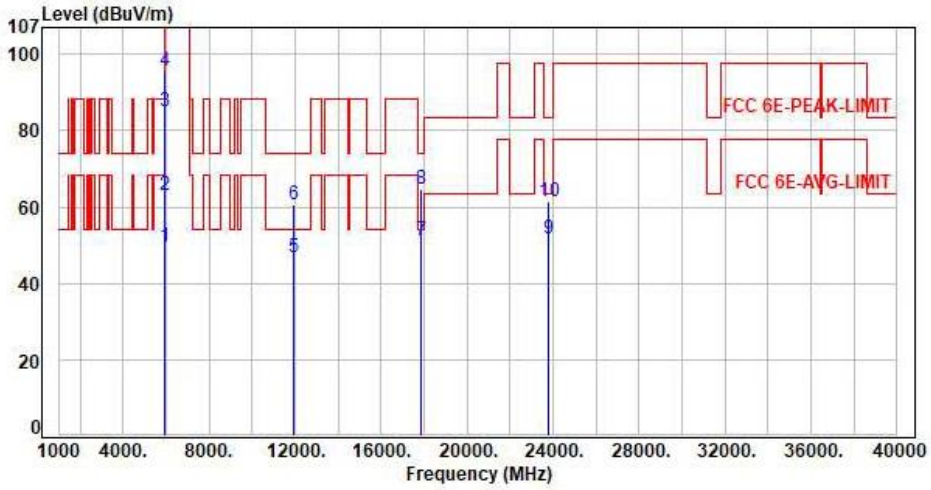
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	84.32	-15.37	47.16	31.79	40.00	-8.21	Peak	400	0	P
2	150.28	-9.75	37.99	28.24	43.50	-15.26	Peak	400	0	P
3	191.02	-11.69	37.49	25.80	43.50	-17.70	Peak	400	0	P
4	243.40	-10.71	37.52	26.81	46.00	-19.19	Peak	400	0	P
5	311.30	-7.48	32.49	25.01	46.00	-20.99	Peak	400	0	P
6	447.10	-3.63	29.03	25.40	46.00	-20.60	Peak	400	0	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

6.6. Test Result and Data (1GHz ~ 40GHz)

SISO ANT A / B5

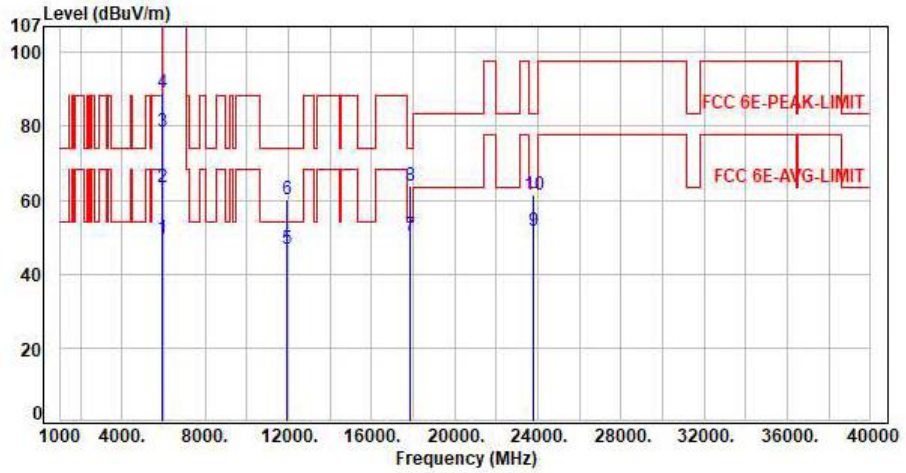
Test Mode : 1TX 11a CH1 6Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5925.00	7.51	42.29	49.80	68.20	-18.40	Average	100	163	P
2	5925.00	7.51	55.73	63.24	88.20	-24.96	Peak	100	163	P
3	5955.00	7.54	77.47	85.01	200.00	-114.99	Average	100	163	P
4	5955.00	7.54	88.21	95.75	200.00	-104.25	Peak	100	163	P
5	11910.00	17.96	28.74	46.70	54.00	-7.30	Average	100	178	P
6	11910.00	17.96	42.78	60.74	74.00	-13.26	Peak	100	178	P
7	17865.00	29.59	21.69	51.28	54.00	-2.72	Average	100	305	P
8	17865.00	29.59	34.99	64.58	74.00	-9.42	Peak	100	305	P
9	23820.00	10.06	41.74	51.80	63.54	-11.74	Average	150	360	P
10	23820.00	10.06	51.29	61.35	83.54	-22.19	Peak	150	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

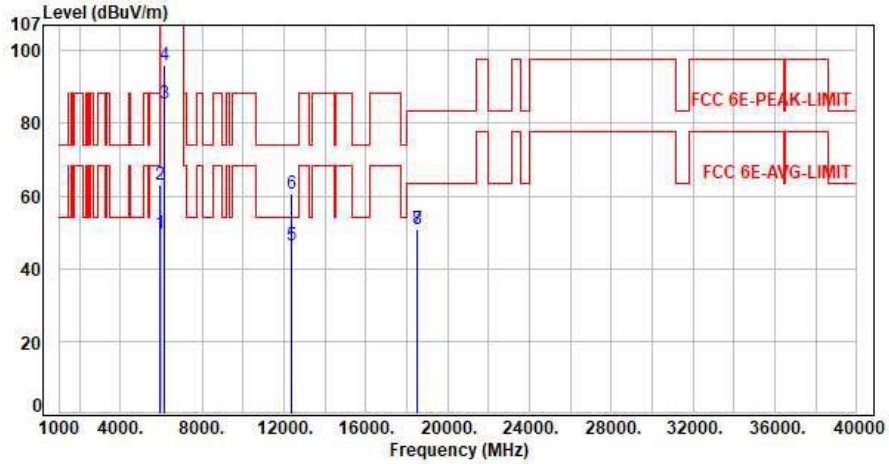
Test Mode : 1TX 11a CH1 6Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5925.00	7.51	42.18	49.69	68.20	-18.51	Average	102	325	P
2	5925.00	7.51	55.91	63.42	88.20	-24.78	Peak	102	325	P
3	5955.00	7.54	70.98	78.52	200.00	-121.48	Average	102	325	P
4	5955.00	7.54	81.53	89.07	200.00	-110.93	Peak	102	325	P
5	11910.00	17.96	28.77	46.73	54.00	-7.27	Average	100	11	P
6	11910.00	17.96	42.36	60.32	74.00	-13.68	Peak	100	11	P
7	17865.00	29.59	20.67	50.26	54.00	-3.74	Average	100	76	P
8	17865.00	29.59	34.36	63.95	74.00	-10.05	Peak	100	76	P
9	23820.00	10.06	41.67	51.73	63.54	-11.81	Average	150	360	P
10	23820.00	10.06	51.50	61.56	83.54	-21.98	Peak	150	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

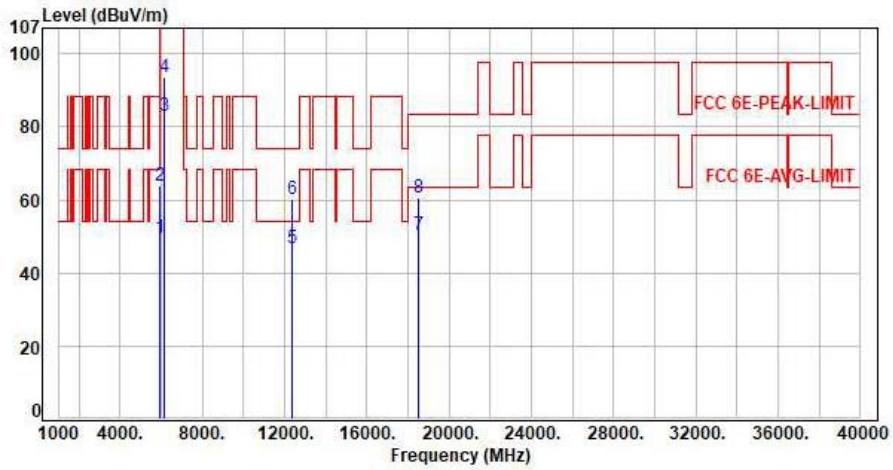
Test Mode : 1TX 11a CH45 6Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5925.00	7.51	42.24	49.75	68.20	-18.45	Average	144	174	P
2	5925.00	7.51	55.56	63.07	88.20	-25.13	Peak	144	174	P
3	6175.00	8.57	76.86	85.43	200.00	-114.57	Average	144	174	P
4	6175.00	8.57	87.43	96.00	200.00	-104.00	Peak	144	174	P
5	12350.00	17.83	28.73	46.56	54.00	-7.44	Average	100	179	P
6	12350.00	17.83	42.63	60.46	74.00	-13.54	Peak	100	179	P
7	18525.00	9.06	41.65	50.71	63.54	-12.83	Average	150	360	P
8	18525.00	9.06	41.84	50.90	83.54	-32.64	Peak	150	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

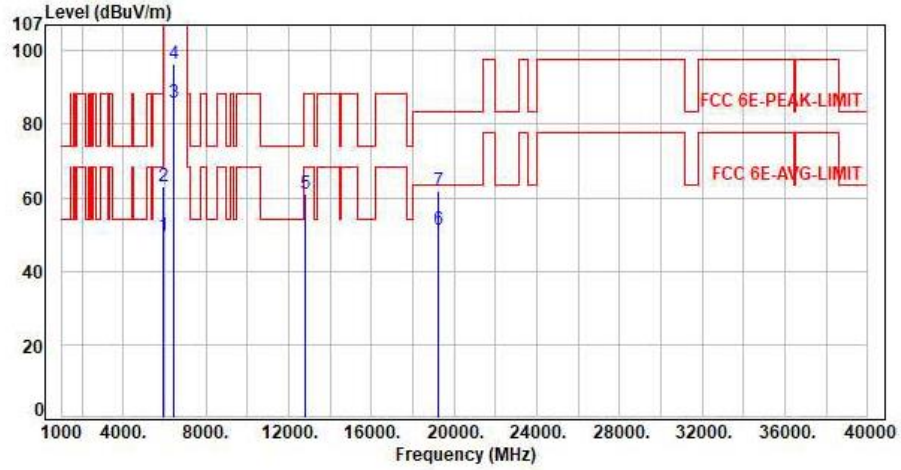
Test Mode : 1TX 11a CH45 6Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5925.00	7.51	42.21	49.72	68.20	-18.48	Average	171	139	P
2	5925.00	7.51	56.46	63.97	88.20	-24.23	Peak	171	139	P
3	6175.00	8.57	74.29	82.86	200.00	-117.14	Average	171	139	P
4	6175.00	8.57	85.13	93.70	200.00	-106.30	Peak	171	139	P
5	12350.00	17.83	28.77	46.60	54.00	-7.40	Average	100	15	P
6	12350.00	17.83	42.33	60.16	74.00	-13.84	Peak	100	15	P
7	18525.00	9.06	41.23	50.29	63.54	-13.25	Average	150	360	P
8	18525.00	9.06	51.36	60.42	83.54	-23.12	Peak	150	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

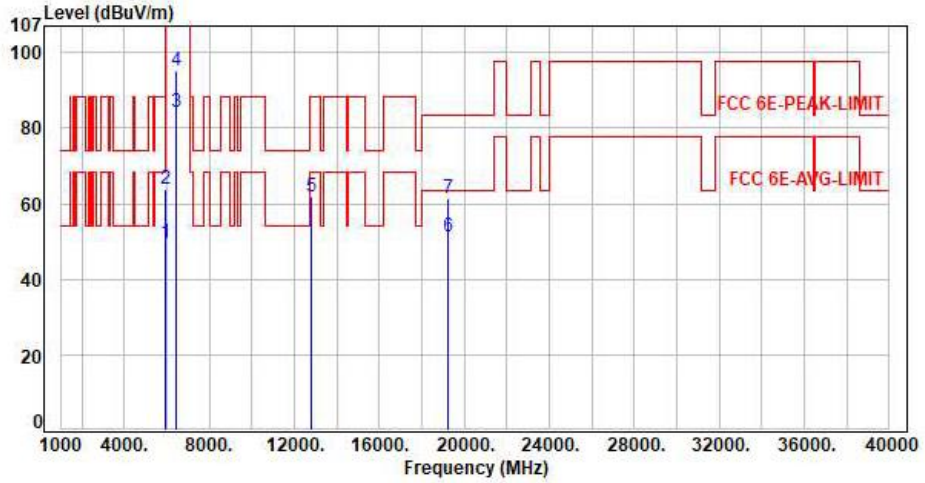
Test Mode : 1TX 11a CH93 6Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5925.00	7.51	42.23	49.74	68.20	-18.46	Average	104	183	P
2	5925.00	7.51	55.64	63.15	88.20	-25.05	Peak	104	183	P
3	6415.00	9.46	76.32	85.78	200.00	-114.22	Average	104	183	P
4	6415.00	9.46	86.93	96.39	200.00	-103.61	Peak	104	183	P
5	12830.00	18.56	42.33	60.89	88.20	-27.31	Peak	100	178	P
6	19245.00	9.93	41.29	51.22	63.54	-12.32	Average	150	360	P
7	19245.00	9.93	52.02	61.95	83.54	-21.59	Peak	150	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Test Mode : 1TX 11a CH93 6Mbps
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	5925.00	7.51	42.18	49.69	68.20	-18.51	Average	325	221	P
2	5925.00	7.51	56.33	63.84	88.20	-24.36	Peak	325	221	P
3	6415.00	9.46	74.96	84.42	200.00	-115.58	Average	325	221	P
4	6415.00	9.46	85.71	95.17	200.00	-104.83	Peak	325	221	P
5	12830.00	18.56	43.34	61.90	88.20	-26.30	Peak	100	13	P
6	19245.00	9.93	41.43	51.36	63.54	-12.18	Average	150	360	P
7	19245.00	9.93	51.41	61.34	83.54	-22.20	Peak	150	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

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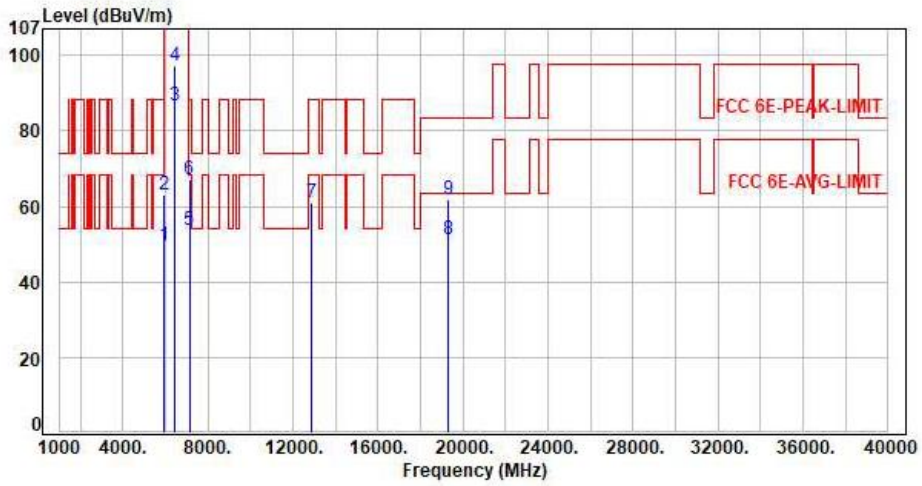
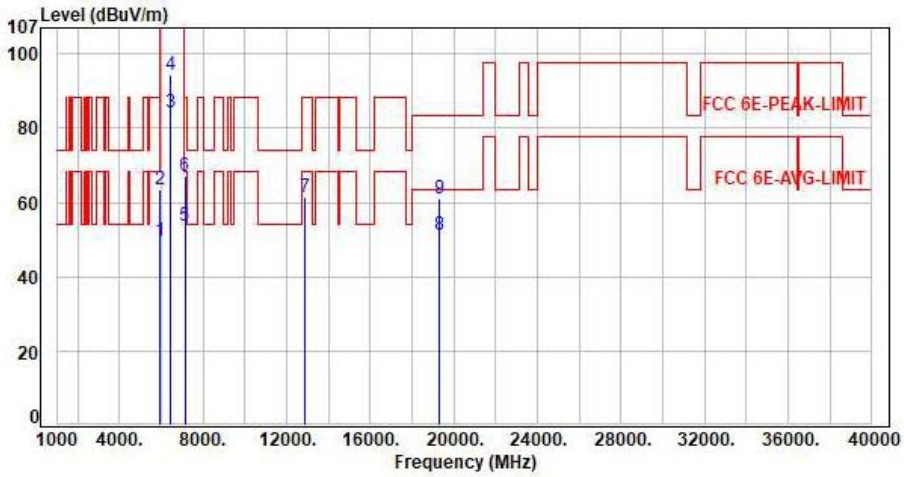
Test Mode : 1TX 11a CH97 6Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5925.00	7.51	42.17	49.68	68.20	-18.52	Average	242	184	P
2	5925.00	7.51	55.54	63.05	88.20	-25.15	Peak	242	184	P
3	6435.00	9.50	77.02	86.52	200.00	-113.48	Average	242	184	P
4	6435.00	9.50	87.83	97.33	200.00	-102.67	Peak	242	184	P
5	7125.00	11.56	42.17	53.73	68.20	-14.47	Average	242	184	P
6	7125.00	11.56	55.59	67.15	88.20	-21.05	Peak	242	184	P
7	12870.00	18.75	42.30	61.05	88.20	-27.15	Peak	100	177	P
8	19305.00	10.05	41.19	51.24	63.54	-12.30	Average	150	360	P
9	19305.00	10.05	51.87	61.92	83.54	-21.62	Peak	150	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

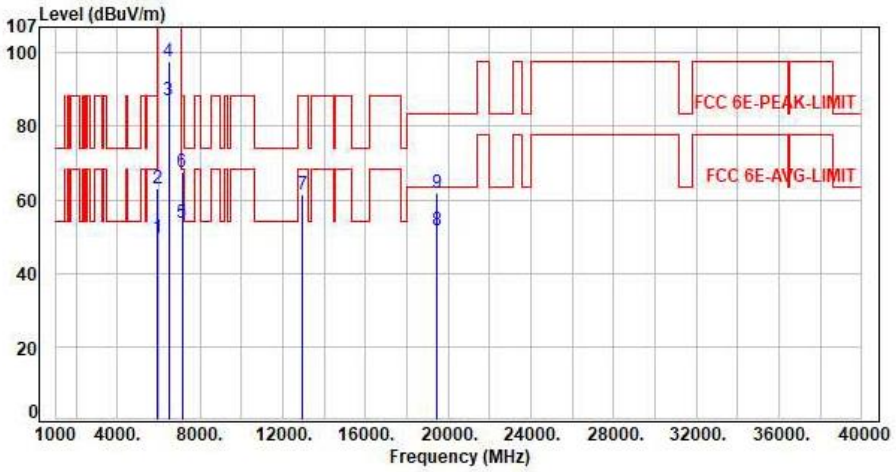
Test Mode : 1TX 11a CH97 6Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5925.00	7.51	42.15	49.66	68.20	-18.54	Average	343	140	P
2	5925.00	7.51	56.05	63.56	88.20	-24.64	Peak	343	140	P
3	6435.00	9.50	74.55	84.05	200.00	-115.95	Average	343	140	P
4	6435.00	9.50	84.74	94.24	200.00	-105.76	Peak	343	140	P
5	7125.00	11.56	42.27	53.83	68.20	-14.37	Average	343	140	P
6	7125.00	11.56	55.66	67.22	88.20	-20.98	Peak	343	140	P
7	12870.00	18.75	42.62	61.37	88.20	-26.83	Peak	100	15	P
8	19305.00	10.05	41.25	51.30	63.54	-12.24	Average	150	360	P
9	19305.00	10.05	51.13	61.18	83.54	-22.36	Peak	150	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

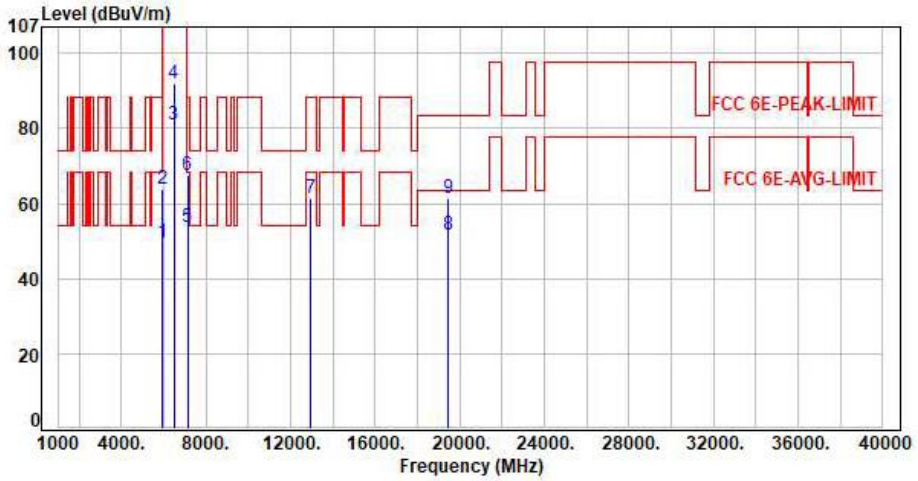
Test Mode : 1TX 11a CH105 6Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5925.00	7.51	42.16	49.67	68.20	-18.53	Average	199	173	P
2	5925.00	7.51	55.36	62.87	88.20	-25.33	Peak	199	173	P
3	6475.00	9.63	77.41	87.04	200.00	-112.96	Average	199	173	P
4	6475.00	9.63	87.98	97.61	200.00	-102.39	Peak	199	173	P
5	7125.00	11.56	42.25	53.81	68.20	-14.39	Average	199	173	P
6	7125.00	11.56	56.16	67.72	88.20	-20.48	Peak	199	173	P
7	12950.00	19.06	42.36	61.42	88.20	-26.78	Peak	100	182	P
8	19425.00	10.18	41.36	51.54	63.54	-12.00	Average	150	360	P
9	19425.00	10.18	51.76	61.94	83.54	-21.60	Peak	150	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

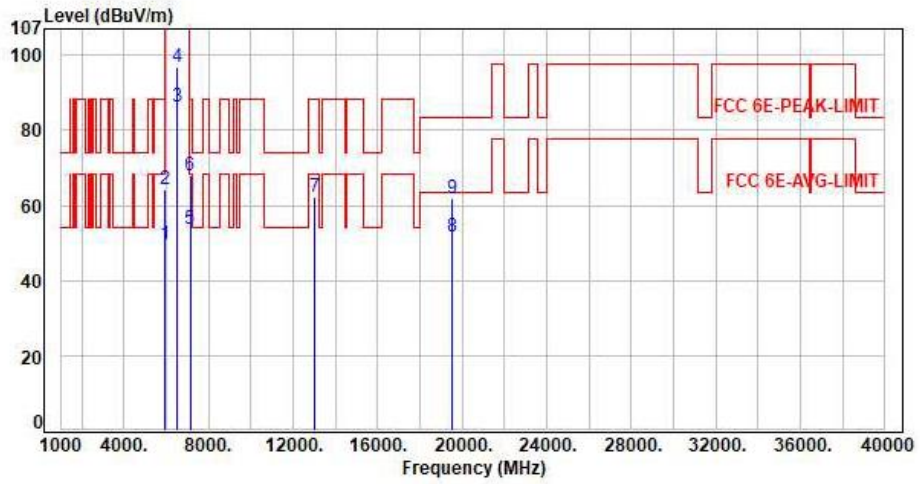
Test Mode : 1TX 11a CH105 6Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5925.00	7.51	42.19	49.70	68.20	-18.50	Average	100	139	P
2	5925.00	7.51	56.47	63.98	88.20	-24.22	Peak	100	139	P
3	6475.00	9.63	71.44	81.07	200.00	-118.93	Average	100	139	P
4	6475.00	9.63	82.47	92.10	200.00	-107.90	Peak	100	139	P
5	7125.00	11.56	42.28	53.84	68.20	-14.36	Average	100	139	P
6	7125.00	11.56	55.87	67.43	88.20	-20.77	Peak	100	139	P
7	12950.00	19.06	42.48	61.54	88.20	-26.66	Peak	100	13	P
8	19425.00	10.18	41.46	51.64	63.54	-11.90	Average	150	360	P
9	19425.00	10.18	51.38	61.56	83.54	-21.98	Peak	150	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

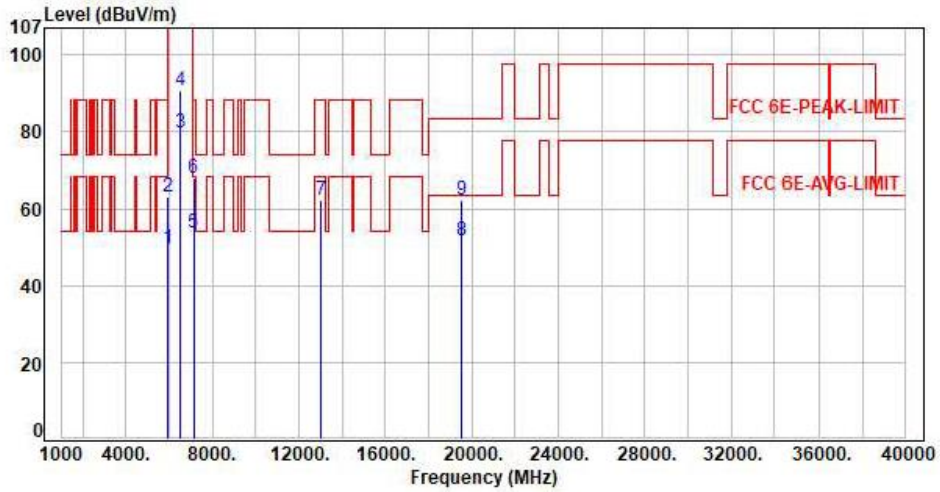
Test Mode : 1TX 11a CH113 6Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5925.00	7.51	42.20	49.71	68.20	-18.49	Average	182	173	P
2	5925.00	7.51	56.64	64.15	88.20	-24.05	Peak	182	173	P
3	6515.00	9.81	76.39	86.20	200.00	-113.80	Average	182	173	P
4	6515.00	9.81	87.12	96.93	200.00	-103.07	Peak	182	173	P
5	7125.00	11.56	42.16	53.72	68.20	-14.48	Average	182	173	P
6	7125.00	11.56	56.20	67.76	88.20	-20.44	Peak	182	173	P
7	13030.00	19.39	42.80	62.19	88.20	-26.01	Peak	100	175	P
8	19545.00	10.28	41.34	51.62	63.54	-11.92	Average	150	360	P
9	19545.00	10.28	51.65	61.93	83.54	-21.61	Peak	150	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Test Mode : 1TX 11a CH113 6Mbps
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	5925.00	7.51	42.25	49.76	68.20	-18.44	Average	100	145	P
2	5925.00	7.51	55.66	63.17	88.20	-25.03	Peak	100	145	P
3	6515.00	9.81	69.84	79.65	200.00	-120.35	Average	100	145	P
4	6515.00	9.81	80.87	90.68	200.00	-109.32	Peak	100	145	P
5	7125.00	11.56	42.29	53.85	68.20	-14.35	Average	100	145	P
6	7125.00	11.56	56.29	67.85	88.20	-20.35	Peak	100	145	P
7	13030.00	19.39	42.93	62.32	88.20	-25.88	Peak	100	12	P
8	19545.00	10.28	41.52	51.80	63.54	-11.74	Average	150	360	P
9	19545.00	10.28	51.90	62.18	83.54	-21.36	Peak	150	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

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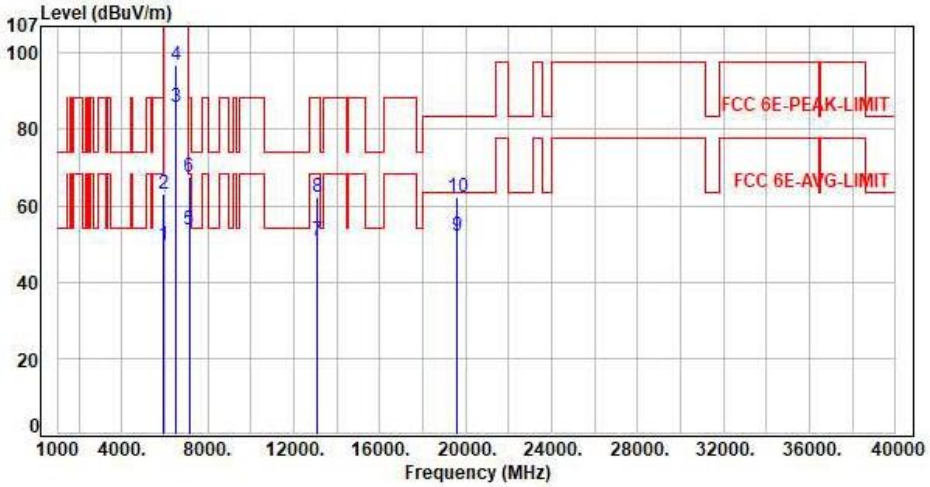
Test Mode : 1TX 11a CH117 6Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5925.00	7.51	42.20	49.71	68.20	-18.49	Average	185	171	P
2	5925.00	7.51	55.69	63.20	88.20	-25.00	Peak	185	171	P
3	6535.00	9.90	76.10	86.00	200.00	-114.00	Average	185	171	P
4	6535.00	9.90	86.84	96.74	200.00	-103.26	Peak	185	171	P
5	7125.00	11.56	42.09	53.65	68.20	-14.55	Average	185	171	P
6	7125.00	11.56	56.12	67.68	88.20	-20.52	Peak	185	171	P
7	13070.00	19.57	31.13	50.70	68.20	-17.50	Average	100	184	P
8	13070.00	19.57	42.61	62.18	88.20	-26.02	Peak	100	184	P
9	19605.00	10.53	41.52	52.05	63.54	-11.49	Average	150	360	P
10	19605.00	10.53	51.63	62.16	83.54	-21.38	Peak	150	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor