TEST REPORT

Application No.:	SZCR2511005167WM
Applicant:	TCL Communication Ltd.
Address of Applicant:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Manufacturer:	TCL Communication Ltd.
Address of Manufacturer:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Equipment Under Test (EUT):	
EUT Description:	GSM/UMTS/LTE/NR Mobile phone
Model No.:	T523P
FCC ID:	2ACCJH203
Standard(s) :	47 CFR Part 15, Subpart B
Date of Receipt:	2025-11-24
Date of Test:	2025-12-03 to 2025-12-24
Date of Issue:	2025-12-31
Test Result:	**Pass***

* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu
EMC Laboratory Manager

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Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
01		2025-12-31		Original

Authorized for issue by:				
		Kevin Lan		
		Kevin Lan/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		

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2 Test Summary

Emission Part				
Item	**Standard**	**Method**	**Requirement**	**Result**
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 15, Subpart B	ANSI C63.4-2014 +C63.4a-2017	15.107(a);Class B	Pass
Radiated Emissions (30MHz-1GHz)		ANSI C63.4-2014 +C63.4a-2017	15.109(a);Class B	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.4-2014 +C63.4a-2017	15.109(g);Class B	Pass

3 Contents

4 General Information

4.1 Details of E.U.T.

EUT Description:	GSM/UMTS/LTE/NR Mobile phone
Model No.:	T523P
Hardware Version:	05
Software Version:	BBSB
Power Supply:	DC 3.91V from internal rechargeable battery which can be charge by AC/DC adapter

Accessory:

Item No.	Manufacturer	Mode No.	Output
Adapter 1	PUAN	QC13US	18W
Adapter 2	PUAN	QC13US	10W
USB cable 1	JUWEI	CDA0000256C1	/
USB cable 2	JUWEI	CDA0000254C1	/
Headset	JUWEI	CCB0046A18C1	/

Remark: Charger 1 and USB cable 1 are white in appearance, Adapter 2 and USB cable 2 are black in appearance.

Item No.	Manufacturer	Mode No.	Capacity
Battery 1	FENGHUA	TLp050C9	Rated Capacity: 5000mAh, 19.55Wh Typical Capacity: 5200mAh, 20.34Wh
Battery 2	Veken	TLp050C7	Rated Capacity: 5000mAh, 19.55Wh Typical Capacity: 5200mAh, 20.34Wh

EUT no.	Battery No.
1	Battery 1
2	Battery 2

Remark:The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Test modes

Pretest these modes to find the worst case and show the worse data in the test items:	07 Transfer data between the EUT1 and the PC+USB cable1 08 Transfer data between the EUT2 and the PC+USB cable2 09 EUT1:adapter1+usb Cable1+Earphone+BT(Idle)+5GWLAN(Idle) +Play MP4+GNSS+GSM850(RX) 10 EUT2:adapter2+usb Cable2+Earphone+BT(Idle)+2.4GWLAN(Idle) +Play MP4+GNSS+WCDMA Band 5(RX) 11 EUT1:adapter1+usb Cable1+Earphone+BT(Idle)+5GWLAN(Idle) +FM+NFC+LTE Band 5(RX) 12 EUT1:adapter1+usb Cable1+Earphone+BT(Idle)+5GWLAN(Idle)

	+Camera(Rear)+LTE Band 12(RX) 13 EUT1:adapter1+usb Cable1+Earphone+BT(Idle)+5GWLAN(Idle) +Camera(Front)+LTE Band 13(RX) 14 EUT1:adapter1+usb Cable1+Earphone+BT(Idle)+5GWLAN(Idle) +Camera(Rear)+LTE Band 14(RX) 15 EUT1:adapter1+usb Cable1+Earphone+BT(Idle)+5GWLAN(Idle) +Camera(Rear)+LTE Band 17(RX) 16 EUT1:adapter1+usb Cable1+Earphone+BT(Idle)+5GWLAN(Idle) +Camera(Rear)+LTE Band 26(RX) 17 EUT1:adapter1+usb Cable1+Earphone+BT(Idle)+5GWLAN(Idle) +Camera(Rear)+NR n5(RX) 18 EUT1:adapter1+usb Cable1+Earphone+BT(Idle)+5GWLAN(Idle) +Camera(Rear)+NR n14(RX) 19 EUT1:adapter1+usb Cable1+Earphone+BT(Idle)+5GWLAN(Idle) +Camera(Rear)+NR n71(RX) 20 EUT1:OTG USB Reverse Charging to other phone

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	L480	REF. No.SEA18C00E
Mouse	Lenovo	M-U0025-O	REF. No.:SEA24A00
Wireless Router	Netgear	JNR3300	REF. No.SEA60A01A

4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at Mains Terminals (150kHz-30MHz)	± 3.1dB
Radiated Emissions (30MHz-1GHz)	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Emissions (Above 1GHz)	± 4.6dB

Remark:
The U_{lab} (lab Uncertainty) is less than $U_{cispr/ETSI}$ (CISPR/ETSI Uncertainty), so the test results
– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None

5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2025-05-07	2028-05-06
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-047	2025-01-08	2026-01-07
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2025-07-05	2026-07-04
LISN	Rohde&Schwarz	ENV216	SEM007-01	2025-07-25	2026-07-24
LISN	ETS-LINDGREN	3816/2	SEM007-02	2025-03-03	2026-03-02

Radiated Emissions (30MHz-1GHz)					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2025-07-25	2026-07-24
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2025-08-29	2027-08-28
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2025-03-04	2026-03-03
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2025-07-05	2026-07-04

Radiated Emissions (Above 1GHz)					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2025-07-22	2026-07-21
Microwave system amplifier	Agilent	83017A	SEM005-25	2025-09-10	2026-09-09
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2025-07-05	2026-07-04

General used equipment					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2025-07-23	2026-07-22
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2025-07-23	2026-07-22
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025-03-03	2026-03-02
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2025-03-03	2026-03-02
Radio Communication Analyzer	Anritsu	MT8821C	SEM010-09	2025-04-04	2026-03-03
Radio Communication Analyzer	Anritsu	MT8000A	SEM010-10	2025-04-04	2026-03-03

6 Emission Test Results

6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement: 47 CFR Part 15, Subpart B
Test Method: ANSI C63.4-2014 +C63.4a-2017
Test Engineer: Wade Li

Limit:

0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

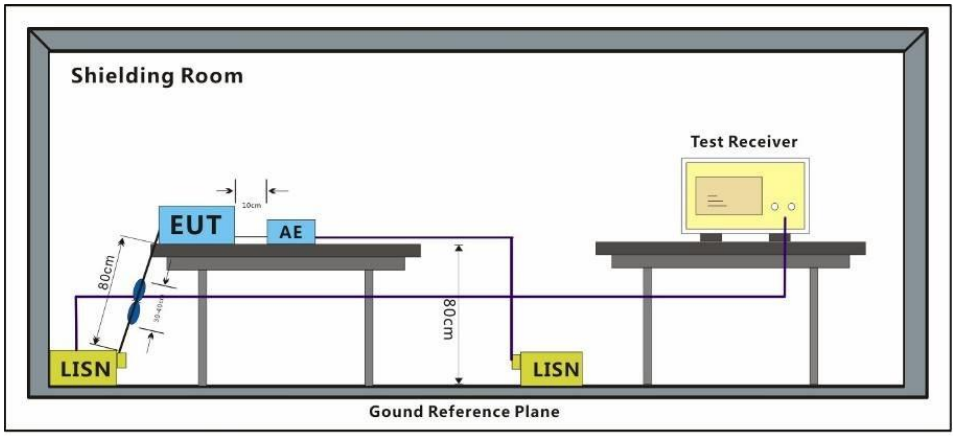
6.1.1 E.U.T. Operation

Operating Environment:
Temperature: 23.3 °C Humidity: 48.6 % RH Atmospheric Pressure: 1020 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	Transfer data between the EUT1 and the PC+USB cable1
Final test	08	Transfer data between the EUT2 and the PC+USB cable2
Final test	09	EUT1:adapter1+usb Cable1+Earphone+BT(Idle)+5GWLAN(Idle)+Play MP4+GNSS+GSM850(RX)
Final test	10	EUT2:adapter2+usb Cable2+Earphone+BT(Idle)+2.4GWLAN(Idle)+Play MP4+GNSS+WCDMA Band 5(RX)
Pre-scan	11	EUT1:adapter1+usb Cable1+Earphone+BT(Idle)+5GWLAN(Idle)+FM+NFC+LTE Band 5(RX)
Pre-scan	12	EUT1:adapter1+usb Cable1+Earphone+BT(Idle)+5GWLAN(Idle)+Camera(Rear)+LTE Band 12(RX)
Pre-scan	13	EUT1:adapter1+usb Cable1+Earphone+BT(Idle)+5GWLAN(Idle)+Camera(Front)+LTE Band 13(RX)
Pre-scan	17	EUT1:adapter1+usb Cable1+Earphone+BT(Idle)+5GWLAN(Idle)+Camera(Rear)+NR n5(RX)

6.1.3 Test Setup Diagram

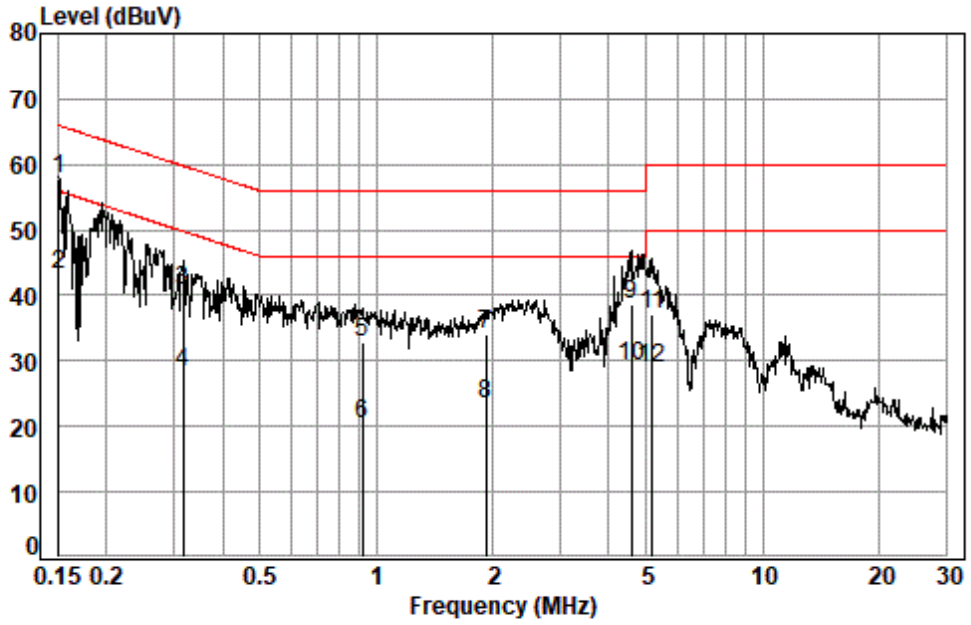


6.1.4 Measurement Procedure and Data

An initial pre-scan was performed with peak detector.Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

Remark : Level= Read Level+ Cable Loss+ LISN Factor

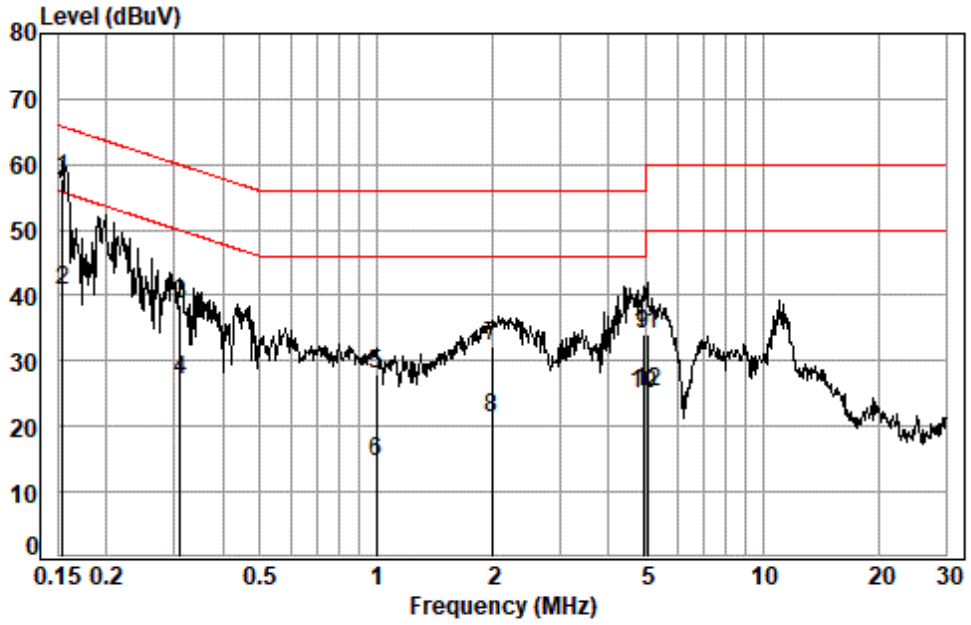
Test Mode: 07; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 05167WM
Test mode: 07

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1508	0.06	10.19	47.59	57.84	65.96	-8.12	QP
2 *	0.1508	0.06	10.19	32.84	43.09	55.96	-12.87	Average
3	0.3166	0.08	9.82	30.71	40.61	59.80	-19.19	QP
4	0.3166	0.08	9.82	18.35	28.25	49.80	-21.55	Average
5	0.9233	0.11	9.60	23.18	32.89	56.00	-23.11	QP
6	0.9233	0.11	9.60	10.64	20.35	46.00	-25.65	Average
7	1.9182	0.12	9.58	24.42	34.12	56.00	-21.88	QP
8	1.9182	0.12	9.58	13.87	23.57	46.00	-22.43	Average
9	4.5736	0.14	9.66	28.89	38.69	56.00	-17.31	QP
10	4.5736	0.14	9.66	19.30	29.10	46.00	-16.90	Average
11	5.1937	0.14	9.66	27.26	37.06	60.00	-22.94	QP
12	5.1937	0.14	9.66	19.17	28.97	50.00	-21.03	Average

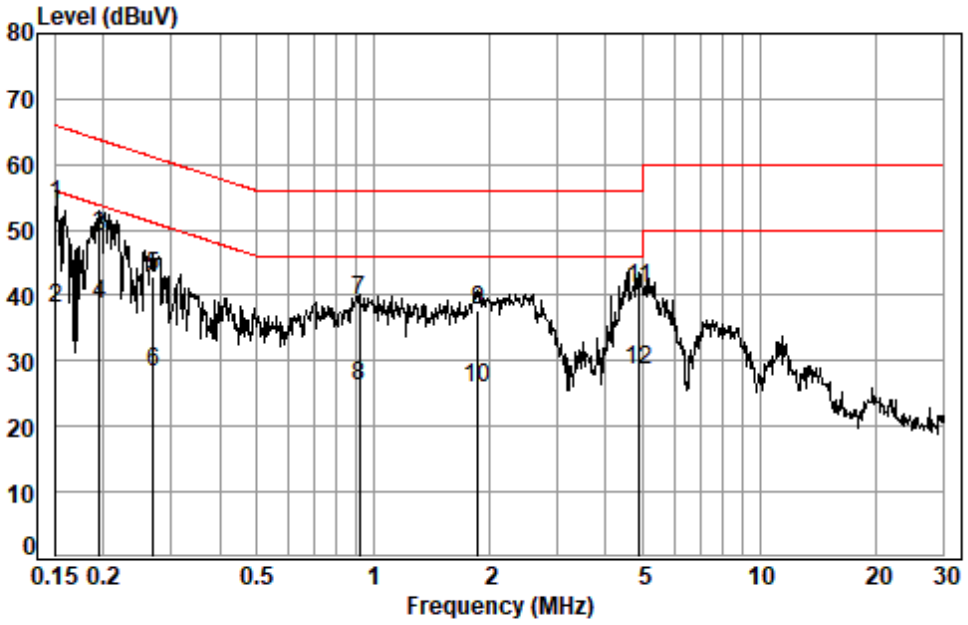
Test Mode: 07; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 05167WM
Test mode: 07

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1540	0.06	10.14	47.58	57.78	65.78	-8.00	QP
2 *	0.1540	0.06	10.14	30.66	40.86	55.78	-14.92	Average
3	0.3116	0.08	9.77	28.86	38.71	59.93	-21.22	QP
4	0.3116	0.08	9.77	17.08	26.93	49.93	-23.00	Average
5	0.9997	0.11	9.54	18.33	27.98	56.00	-28.02	QP
6	0.9997	0.11	9.54	4.85	14.50	46.00	-31.50	Average
7	1.9906	0.12	9.55	22.70	32.37	56.00	-23.63	QP
8	1.9906	0.12	9.55	11.70	21.37	46.00	-24.63	Average
9	4.9257	0.14	9.56	24.41	34.11	56.00	-21.89	QP
10	4.9257	0.14	9.56	15.13	24.83	46.00	-21.17	Average
11	5.0312	0.14	9.56	24.45	34.15	60.00	-25.85	QP
12	5.0312	0.14	9.56	15.66	25.36	50.00	-24.64	Average

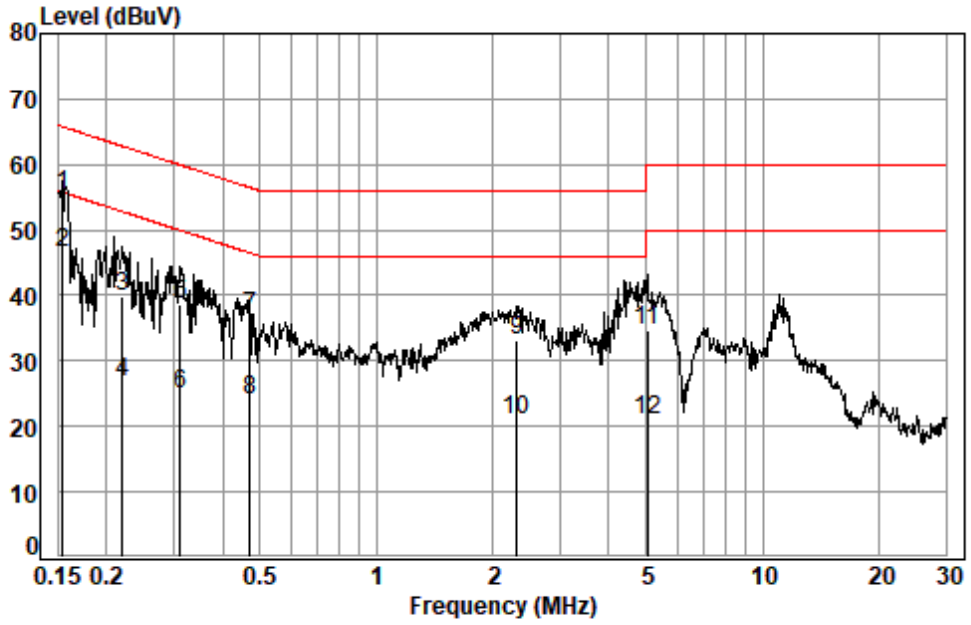
Test Mode: 08; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 05167WM
Test mode: 08

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1508	0.06	10.19	43.51	53.76	65.96	-12.20	QP
2	0.1508	0.06	10.19	27.87	38.12	55.96	-17.84	Average
3	0.1955	0.07	10.13	38.84	49.04	63.80	-14.76	QP
4 *	0.1955	0.07	10.13	28.33	38.53	53.80	-15.27	Average
5	0.2687	0.08	9.92	33.01	43.01	61.16	-18.15	QP
6	0.2687	0.08	9.92	18.32	28.32	51.16	-22.84	Average
7	0.9233	0.11	9.60	29.41	39.12	56.00	-16.88	QP
8	0.9233	0.11	9.60	16.45	26.16	46.00	-19.84	Average
9	1.8680	0.12	9.58	28.05	37.75	56.00	-18.25	QP
10	1.8680	0.12	9.58	16.30	26.00	46.00	-20.00	Average
11	4.8997	0.14	9.66	31.31	41.11	56.00	-14.89	QP
12	4.8997	0.14	9.66	18.70	28.50	46.00	-17.50	Average

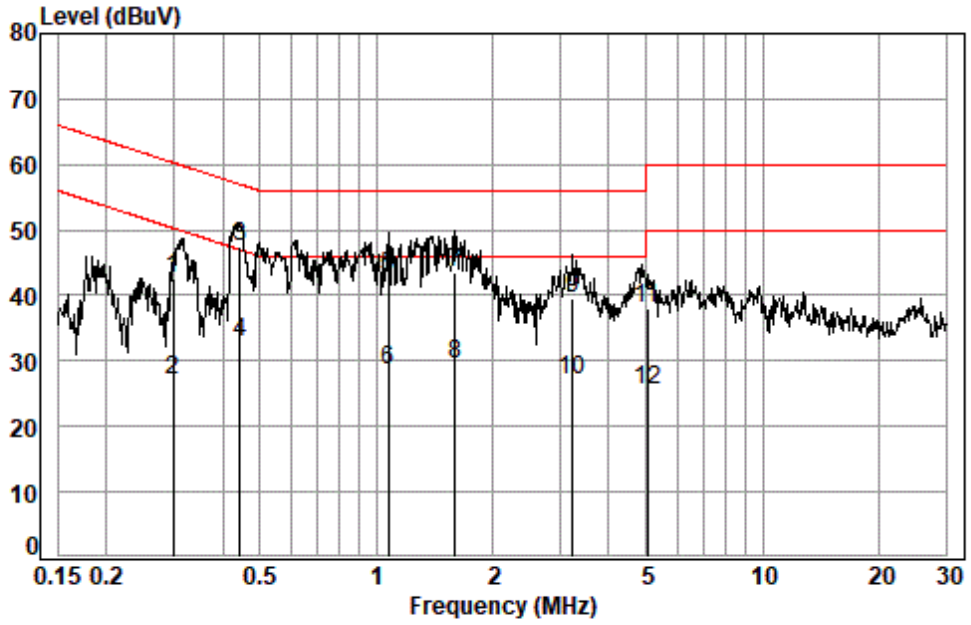
Test Mode: 08; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 05167WM
Test mode: 08

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1540	0.06	10.14	45.11	55.31	65.78	-10.47	QP
2 *	0.1540	0.06	10.14	36.21	46.41	55.78	-9.37	Average
3	0.2208	0.07	10.00	29.91	39.98	62.79	-22.81	QP
4	0.2208	0.07	10.00	16.67	26.74	52.79	-26.05	Average
5	0.3116	0.08	9.77	28.79	38.64	59.93	-21.29	QP
6	0.3116	0.08	9.77	14.95	24.80	49.93	-25.13	Average
7	0.4711	0.09	9.72	27.02	36.83	56.49	-19.66	QP
8	0.4711	0.09	9.72	14.22	24.03	46.49	-22.46	Average
9	2.3090	0.13	9.55	23.61	33.29	56.00	-22.71	QP
10	2.3090	0.13	9.55	11.23	20.91	46.00	-25.09	Average
11	5.0312	0.14	9.56	24.96	34.66	60.00	-25.34	QP
12	5.0312	0.14	9.56	11.18	20.88	50.00	-29.12	Average

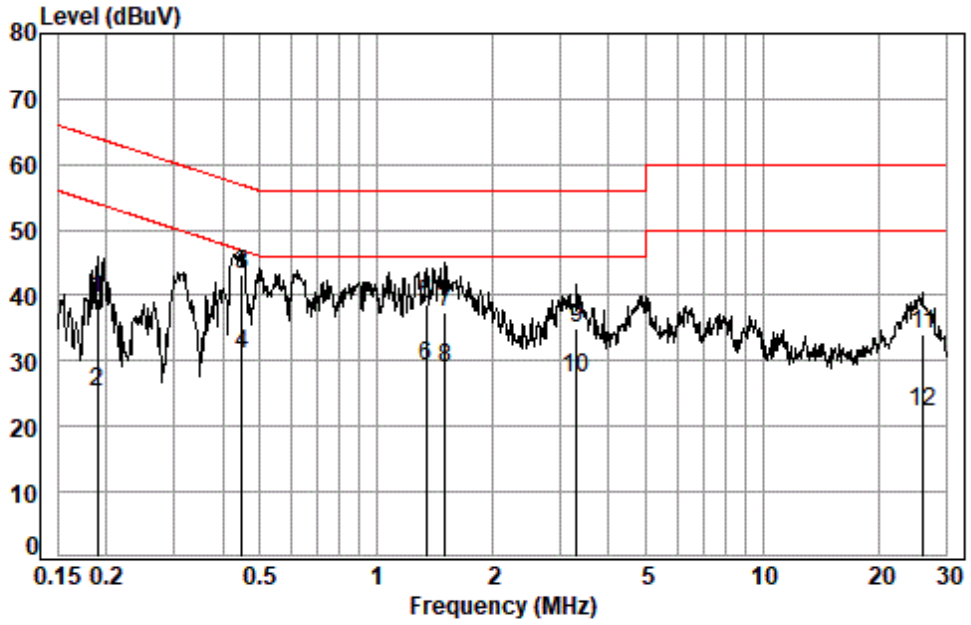
Test Mode: 09; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 05167WM
Test mode: 09

		Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1		0.2987	0.08	9.85	32.80	42.73	60.28	-17.55	QP
2		0.2987	0.08	9.85	17.13	27.06	50.28	-23.22	Average
3	*	0.4444	0.09	9.61	37.80	47.50	56.98	-9.48	QP
4	*	0.4444	0.09	9.61	23.24	32.94	46.98	-14.04	Average
5		1.0767	0.11	9.58	33.23	42.92	56.00	-13.08	QP
6		1.0767	0.11	9.58	18.82	28.51	46.00	-17.49	Average
7		1.6020	0.12	9.58	33.72	43.42	56.00	-12.58	QP
8		1.6020	0.12	9.58	19.66	29.36	46.00	-16.64	Average
9		3.2239	0.13	9.65	29.64	39.42	56.00	-16.58	QP
10		3.2239	0.13	9.65	17.22	27.00	46.00	-19.00	Average
11		5.0312	0.14	9.66	28.35	38.15	60.00	-21.85	QP
12		5.0312	0.14	9.66	15.84	25.64	50.00	-24.36	Average

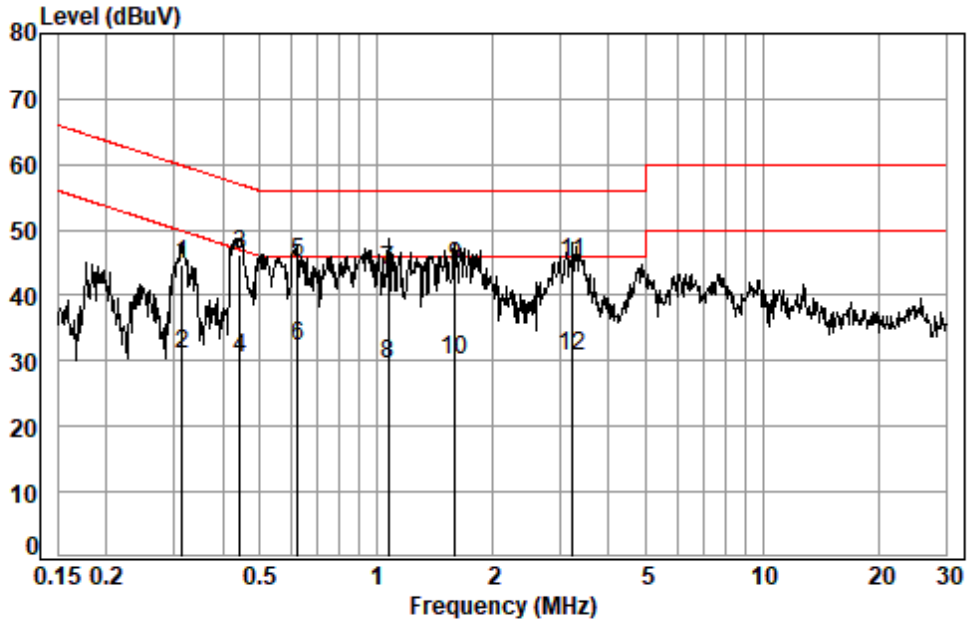
Test Mode: 09; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 05167WM
Test mode: 09

		Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1		0.1904	0.07	10.09	29.33	39.49	64.02	-24.53	QP
2		0.1904	0.07	10.09	15.21	25.37	54.02	-28.65	Average
3	*	0.4492	0.09	9.72	33.41	43.22	56.89	-13.67	QP
4	*	0.4492	0.09	9.72	21.30	31.11	46.89	-15.78	Average
5		1.3450	0.12	9.54	29.04	38.70	56.00	-17.30	QP
6		1.3450	0.12	9.54	19.41	29.07	46.00	-16.93	Average
7		1.5113	0.12	9.55	27.87	37.54	56.00	-18.46	QP
8		1.5113	0.12	9.55	19.37	29.04	46.00	-16.96	Average
9		3.2930	0.13	9.54	25.28	34.95	56.00	-21.05	QP
10		3.2930	0.13	9.54	17.64	27.31	46.00	-18.69	Average
11		26.0012	0.25	10.49	23.37	34.11	60.00	-25.89	QP
12		26.0012	0.25	10.49	11.47	22.21	50.00	-27.79	Average

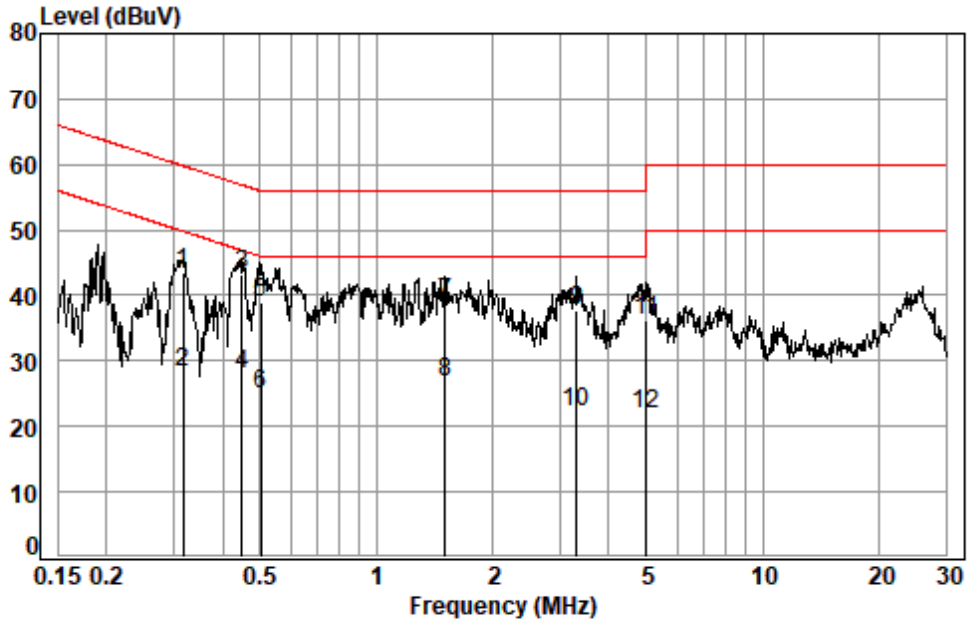
Test Mode: 10; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 05167WM
Test mode: 10

		Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1		0.3149	0.08	9.82	34.69	44.59	59.84	-15.25	QP
2		0.3149	0.08	9.82	21.25	31.15	49.84	-18.69	Average
3	*	0.4444	0.09	9.61	36.64	46.34	56.98	-10.64	QP
4		0.4444	0.09	9.61	20.74	30.44	46.98	-16.54	Average
5		0.6271	0.10	9.61	35.27	44.98	56.00	-11.02	QP
6	*	0.6271	0.10	9.61	22.38	32.09	46.00	-13.91	Average
7		1.0767	0.11	9.58	33.98	43.67	56.00	-12.33	QP
8		1.0767	0.11	9.58	19.77	29.46	46.00	-16.54	Average
9		1.6020	0.12	9.58	34.58	44.28	56.00	-11.72	QP
10		1.6020	0.12	9.58	20.26	29.96	46.00	-16.04	Average
11		3.2239	0.13	9.65	35.30	45.08	56.00	-10.92	QP
12		3.2239	0.13	9.65	20.85	30.63	46.00	-15.37	Average

Test Mode: 10; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 05167WM
Test mode: 10

		Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1		0.3166	0.08	9.76	33.54	43.38	59.80	-16.42	QP
2		0.3166	0.08	9.76	18.58	28.42	49.80	-21.38	Average
3	*	0.4492	0.09	9.72	33.36	43.17	56.89	-13.72	QP
4	*	0.4492	0.09	9.72	18.13	27.94	46.89	-18.95	Average
5		0.5020	0.09	9.71	29.08	38.88	56.00	-17.12	QP
6		0.5020	0.09	9.71	15.15	24.95	46.00	-21.05	Average
7		1.5113	0.12	9.55	29.26	38.93	56.00	-17.07	QP
8		1.5113	0.12	9.55	17.02	26.69	46.00	-19.31	Average
9		3.2930	0.13	9.54	27.90	37.57	56.00	-18.43	QP
10		3.2930	0.13	9.54	12.59	22.26	46.00	-23.74	Average
11		5.0046	0.14	9.56	26.63	36.33	60.00	-23.67	QP
12		5.0046	0.14	9.56	12.08	21.78	50.00	-28.22	Average

6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B
Test Method: ANSI C63.4-2014 +C63.4a-2017
Measurement Distance: 3m
Test Engineer: Mason Wu

Limit:

FREQUENCY (MHz)	dBμV/m (At 10m)	dBμV/m (At 3m)
	Class B	Class B
30MHz -88MHz	29.5	40.0
88MHz-216MHz	33.1	43.5
216MHz-960MHz	35.6	46.0
960MHz-1000MHz	43.5	54.0
Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz		

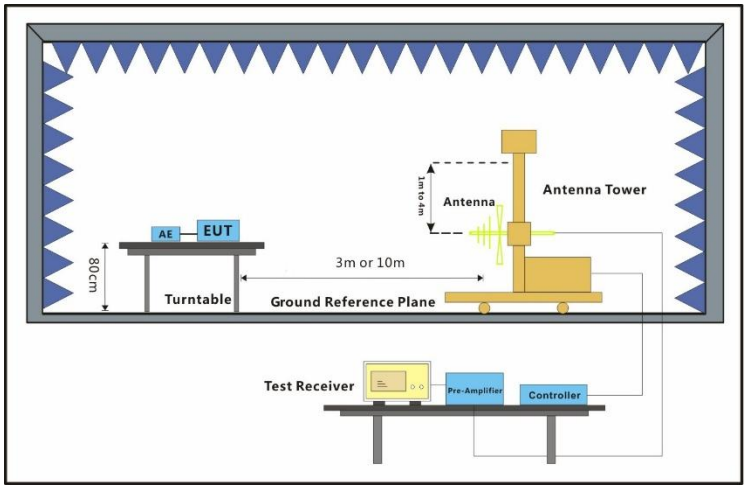
6.2.1 E.U.T. Operation

Operating Environment:
Temperature: 23.5 °C Humidity: 47.5 % RH Atmospheric Pressure: 1020 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	Transfer data between the EUT1 and the PC+USB cable1
Final test	08	Transfer data between the EUT2 and the PC+USB cable2
Final test	09	EUT1:adapter1+usb Cable1+Earphone+BT(Idle)+5GWLAN(Idle)+Play MP4+GNSS+GSM850(RX)
Final test	10	EUT2:adapter2+usb Cable2+Earphone+BT(Idle)+2.4GWLAN(Idle)+Play MP4+GNSS+WCDMA Band 5(RX)
Pre-scan	11	EUT1:adapter1+usb Cable1+Earphone+BT(Idle)+5GWLAN(Idle)+FM+NFC+LTE Band 5(RX)
Pre-scan	12	EUT1:adapter1+usb Cable1+Earphone+BT(Idle)+5GWLAN(Idle)+Camera(Rear)+LTE Band 12(RX)
Pre-scan	13	EUT1:adapter1+usb Cable1+Earphone+BT(Idle)+5GWLAN(Idle)+Camera(Front)+LTE Band 13(RX)
Pre-scan	17	EUT1:adapter1+usb Cable1+Earphone+BT(Idle)+5GWLAN(Idle)+Camera(Rear)+NR n5(RX)
Pre-scan	20	EUT1:OTG USB Reverse Charging to other phone

6.2.3 Test Setup Diagram

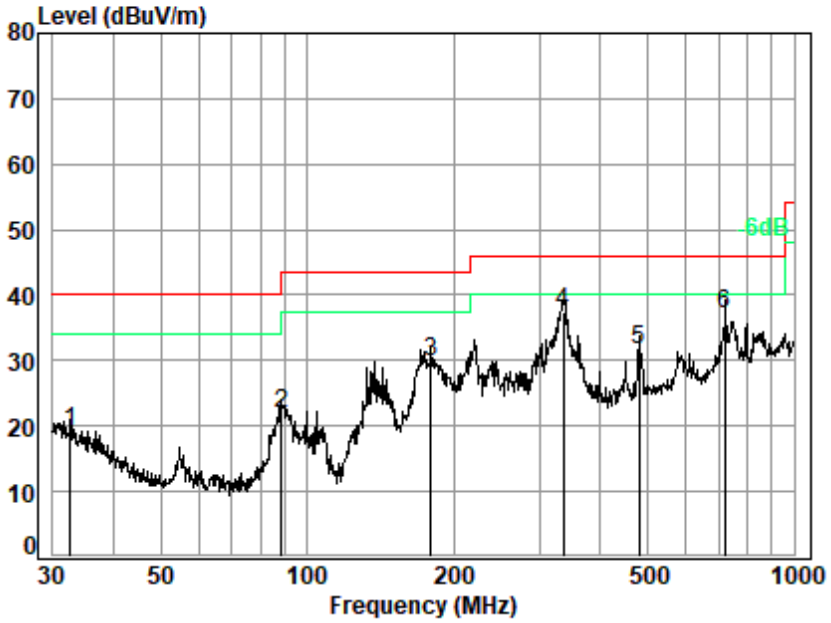


6.2.4 Measurement Procedure and Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

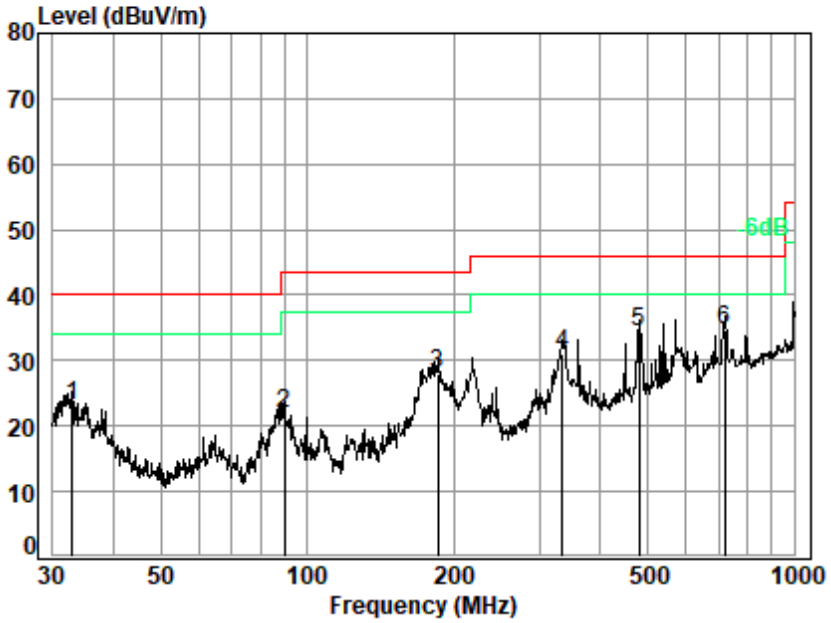
Test Mode: 07; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 05167WM
Test Mode: 07

	Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	32.634	20.02	0.76	27.65	25.98	19.11	40.00	-20.89	QP
2	88.342	11.52	1.17	27.61	36.81	21.89	43.50	-21.61	QP
3	179.386	14.08	1.62	27.77	42.02	29.95	43.50	-13.55	QP
4 q	336.035	18.88	2.26	27.60	43.77	37.31	46.00	-8.69	QP
5	480.528	22.75	2.75	27.91	34.16	31.75	46.00	-14.25	QP
6	721.726	26.25	3.47	27.78	35.26	37.20	46.00	-8.80	QP

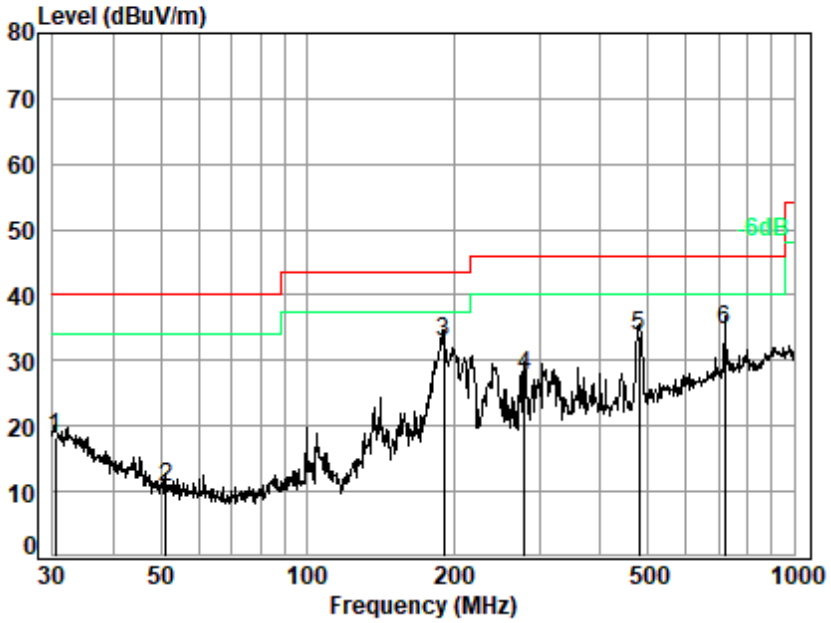
Test Mode: 07; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 05167WM
Test Mode: 07

	Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	32.979	19.89	0.77	27.65	30.23	23.24	40.00	-16.76	QP
2	89.905	11.72	1.18	27.60	36.50	21.80	43.50	-21.70	QP
3	185.788	14.29	1.65	27.78	39.92	28.08	43.50	-15.42	QP
4	333.687	18.80	2.25	27.59	37.64	31.10	46.00	-14.90	QP
5	480.528	22.75	2.75	27.91	36.65	34.24	46.00	-11.76	QP
6 q	721.726	26.25	3.47	27.78	32.85	34.79	46.00	-11.21	QP

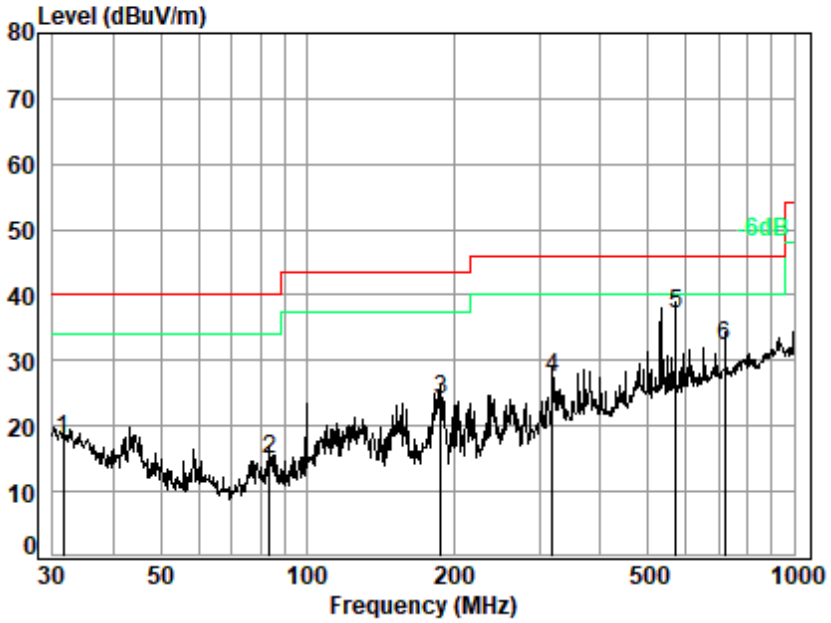
Test Mode: 08; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 05167WM
Test Mode: 08

	Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.424	21.00	0.74	27.65	24.20	18.29	40.00	-21.71	QP
2	51.121	12.58	0.90	27.63	24.82	10.67	40.00	-29.33	QP
3 q	190.405	14.29	1.67	27.79	44.53	32.70	43.50	-10.80	QP
4	280.024	16.91	2.04	27.55	36.35	27.75	46.00	-18.25	QP
5	480.528	22.75	2.75	27.91	36.02	33.61	46.00	-12.39	QP
6	719.200	26.25	3.47	27.79	32.84	34.77	46.00	-11.23	QP

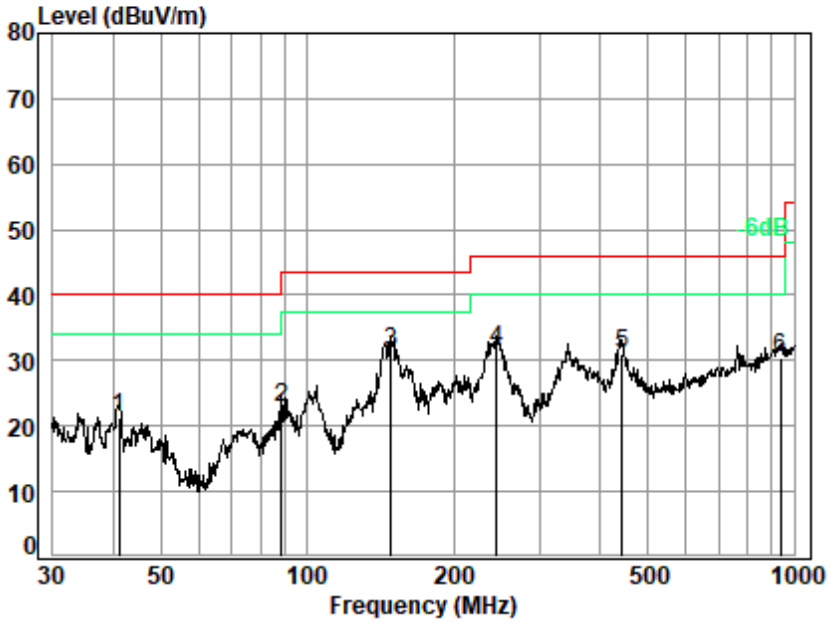
Test Mode: 08; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 05167WM
Test Mode: 08

	Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	31.510	20.50	0.75	27.65	24.32	17.92	40.00	-22.08	QP
2	83.816	10.84	1.13	27.61	30.45	14.81	40.00	-25.19	QP
3	187.753	14.30	1.66	27.78	35.99	24.17	43.50	-19.33	QP
4	318.817	18.48	2.19	27.55	34.12	27.24	46.00	-18.76	QP
5 q	570.610	23.67	3.02	28.06	38.40	37.03	46.00	-8.97	QP
6	721.726	26.25	3.47	27.78	30.44	32.38	46.00	-13.62	QP

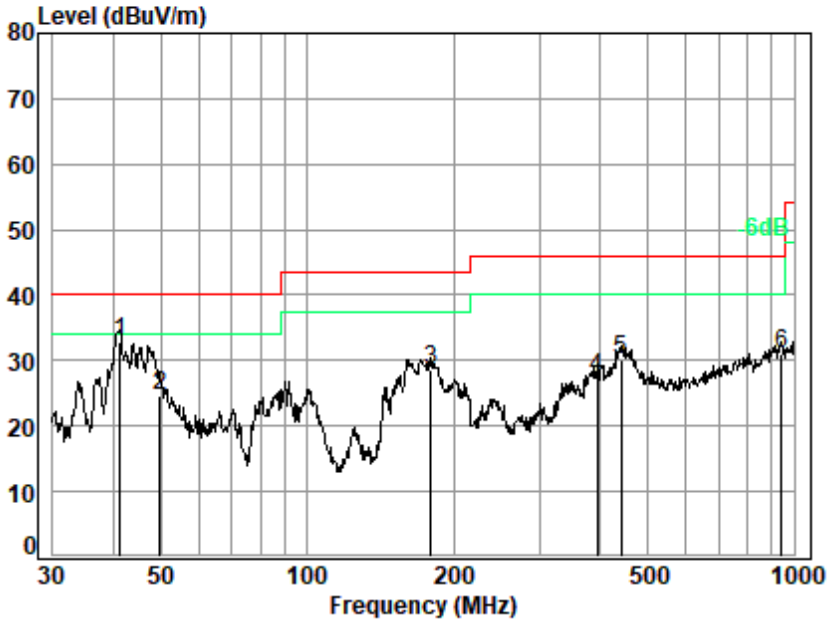
Test Mode: 09; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 05167WM
Test Mode: 09

	Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	40.988	15.91	0.83	27.64	32.20	21.30	40.00	-18.70	QP
2	88.652	11.57	1.17	27.61	37.60	22.73	43.50	-20.77	QP
3 q	148.441	12.86	1.49	27.71	44.80	31.44	43.50	-12.06	QP
4	245.090	17.10	1.91	27.65	40.41	31.77	46.00	-14.23	QP
5	443.294	21.11	2.64	27.84	35.18	31.09	46.00	-14.91	QP
6	938.833	28.15	4.06	26.74	25.01	30.48	46.00	-15.52	QP

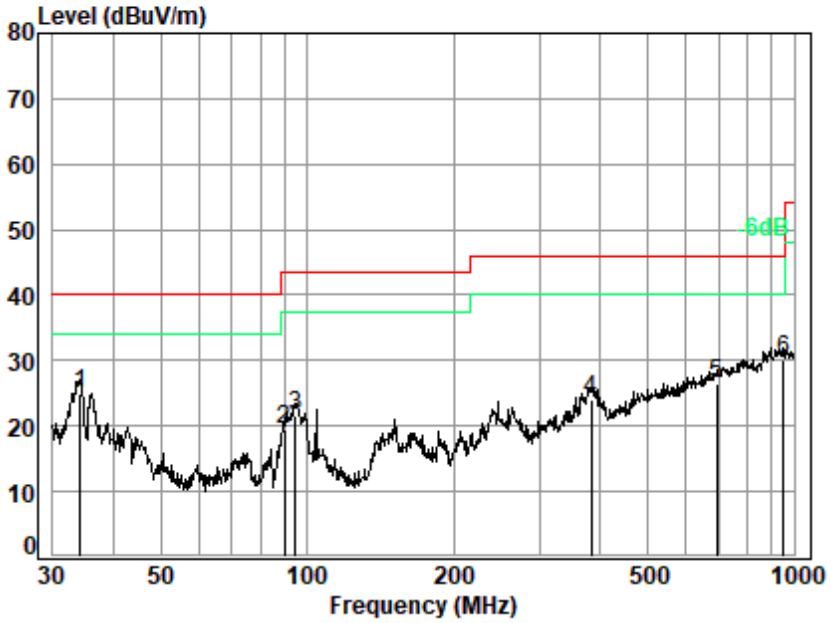
Test Mode: 09; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 05167WM
Test Mode: 09

	Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	41.277	15.76	0.83	27.64	43.81	32.76	40.00	-7.24	QP
2	49.881	12.79	0.90	27.63	38.70	24.76	40.00	-15.24	QP
3	179.386	14.08	1.62	27.77	40.59	28.52	43.50	-14.98	QP
4	394.855	20.70	2.47	27.74	32.07	27.50	46.00	-18.50	QP
5	441.743	21.09	2.63	27.83	34.34	30.23	46.00	-15.77	QP
6	942.131	28.19	4.06	26.72	25.39	30.92	46.00	-15.08	QP

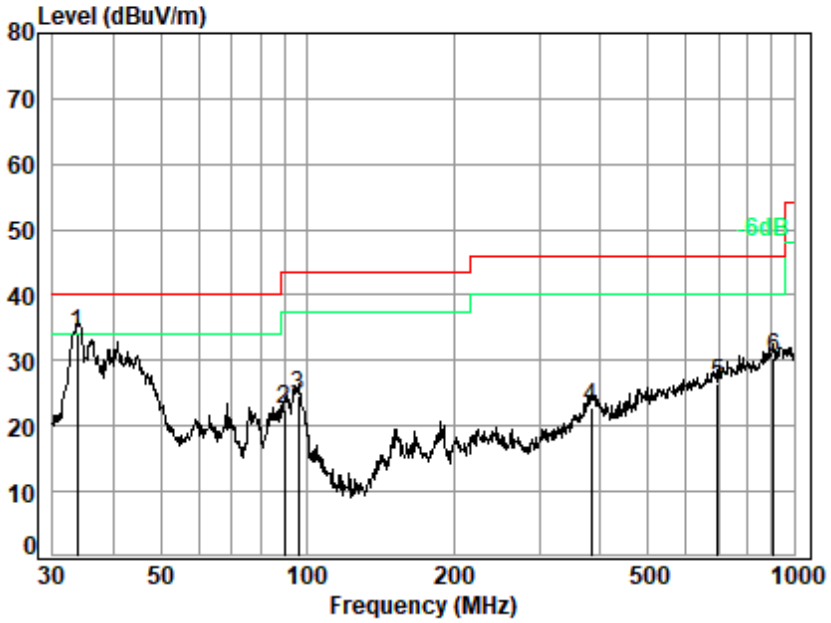
Test Mode: 10; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 05167WM
Test Mode: 10

	Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	34.156	19.34	0.78	27.65	32.46	24.93	40.00	-15.07	QP
2	89.905	11.72	1.18	27.60	34.06	19.36	43.50	-24.14	QP
3	94.760	12.12	1.20	27.60	35.78	21.50	43.50	-22.00	QP
4	382.588	20.90	2.43	27.71	28.38	24.00	46.00	-22.00	QP
5	694.417	25.82	3.39	27.85	25.14	26.50	46.00	-19.50	QP
6	952.094	28.17	4.08	26.66	24.47	30.06	46.00	-15.94	QP

Test Mode: 10; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 05167WM
Test Mode: 10

	Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	33.680	19.57	0.77	27.65	41.41	34.10	40.00	-5.90	QP
2	89.905	11.72	1.18	27.60	37.15	22.45	43.50	-21.05	QP
3	96.099	12.17	1.20	27.60	38.80	24.57	43.50	-18.93	QP
4	382.588	20.90	2.43	27.71	27.33	22.95	46.00	-23.05	QP
5	696.857	25.88	3.40	27.84	25.10	26.54	46.00	-19.46	QP
6	906.482	27.87	3.99	26.93	25.48	30.41	46.00	-15.59	QP

6.3 Radiated Emissions (Above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B
Test Method: ANSI C63.4-2014 +C63.4a-2017
Measurement Distance: 3m
Test Engineer: Tommy Luo

Limit:

Above 1GHz	74(dBμV/m) peak, 54(dBμV/m) average at 3m distance
	83.54(dBμV/m) peak, 63.54(dBμV/m) average at 1m distance
Detector:	Peak for pre-scan (1MHz resolution bandwidth) 1GHz to 40GHz

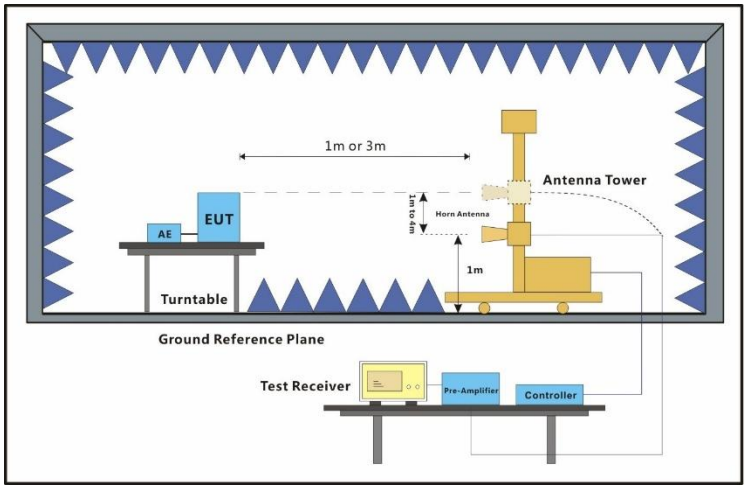
6.3.1 E.U.T. Operation

Operating Environment:
Temperature: 21.3 °C Humidity: 50.2 % RH Atmospheric Pressure: 1020 mbar

6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	Transfer data between the EUT1 and the PC+USB cable1
Pre-scan	08	Transfer data between the EUT2 and the PC+USB cable2
Final test	09	EUT1:adapter1+usb Cable1+Earphone+BT(Idle)+5GWLAN(Idle)+Play MP4+GNSS+GSM850(RX)
Pre-scan	10	EUT2:adapter2+usb Cable2+Earphone+BT(Idle)+2.4GWLAN(Idle)+Play MP4+GNSS+WCDMA Band 5(RX)
Pre-scan	11	EUT1:adapter1+usb Cable1+Earphone+BT(Idle)+5GWLAN(Idle)+FM+NFC+LTE Band 5(RX)
Pre-scan	12	EUT1:adapter1+usb Cable1+Earphone+BT(Idle)+5GWLAN(Idle)+Camera(Rear)+LTE Band 12(RX)
Pre-scan	13	EUT1:adapter1+usb Cable1+Earphone+BT(Idle)+5GWLAN(Idle)+Camera(Front)+LTE Band 13(RX)
Pre-scan	17	EUT1:adapter1+usb Cable1+Earphone+BT(Idle)+5GWLAN(Idle)+Camera(Rear)+NR n5(RX)
Pre-scan	20	EUT1:OTG USB Reverse Charging to other phone

6.3.3 Test Setup Diagram



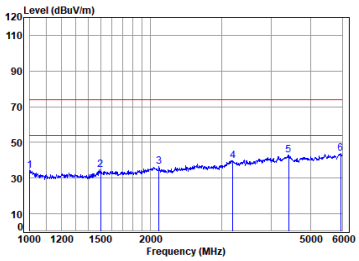
6.3.4 Measurement Procedure and Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

The red line show in graphic is the limit in standard used in this section.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

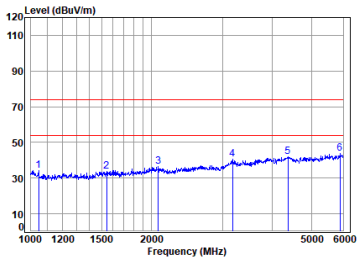
07 H



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05167WM
Mode : 07

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1000.000	5.91	26.30	54.60	56.66	34.27	74.00	-39.73	Peak
2	1499.209	4.99	26.78	54.78	57.82	34.81	74.00	-39.19	Peak
3	2095.928	5.09	28.82	54.91	57.56	36.56	74.00	-37.44	Peak
4	3204.781	6.02	32.82	54.84	55.78	39.78	74.00	-34.22	Peak
5	4408.687	7.12	34.70	54.26	55.31	42.87	74.00	-31.13	Peak
6 p	5946.487	8.85	34.69	53.15	53.32	43.71	74.00	-30.29	Peak

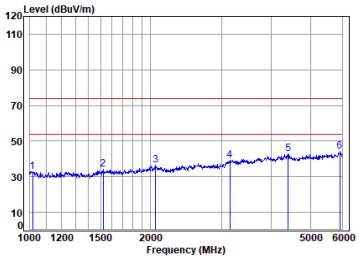
07 V



Site : chamber
Condition: 3m VERTICAL
Job No : 05167WM
Mode : 07

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1045.812	5.81	24.83	54.62	58.35	34.37	74.00	-39.63	Peak
2	1545.577	4.99	26.98	54.79	56.46	33.64	74.00	-40.36	Peak
3	2077.235	5.08	28.89	54.91	57.38	36.44	74.00	-37.56	Peak
4	3181.894	6.00	32.76	54.86	56.50	40.40	74.00	-33.60	Peak
5	4369.367	7.10	34.55	54.26	54.81	42.20	74.00	-31.80	Peak
6 p	5893.452	8.77	34.57	53.21	53.79	43.92	74.00	-30.08	Peak

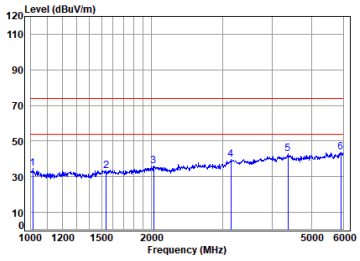
09 H



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05167WM
Mode : 09

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1016.257	5.87	25.78	54.61	55.93	32.97	74.00	-41.03	Peak
2	1520.854	4.99	26.88	54.78	57.04	34.13	74.00	-39.87	Peak
3	2058.709	5.06	28.97	54.91	57.50	36.62	74.00	-37.38	Peak
4	3153.515	5.99	32.53	54.88	55.79	39.43	74.00	-34.57	Peak
5	4400.794	7.12	34.79	54.26	55.08	42.73	74.00	-31.27	Peak
6 p	5925.216	8.82	34.65	53.18	53.87	44.16	74.00	-29.84	Peak

09 V



Site : chamber
Condition: 3m VERTICAL
Job No : 05167WM
Mode : 09

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1010.809	5.89	25.95	54.60	57.60	34.84	74.00	-39.16	Peak
2	1540.049	4.99	26.96	54.79	56.25	33.41	74.00	-40.59	Peak
3	2022.150	5.03	28.89	54.90	57.14	36.16	74.00	-37.84	Peak
4	3153.515	5.99	32.53	54.88	56.25	39.89	74.00	-34.11	Peak
5	4369.367	7.10	34.55	54.26	55.32	42.71	74.00	-31.29	Peak
6 p	5925.216	8.82	34.65	53.18	53.37	43.66	74.00	-30.34	Peak

7 Test Setup Photo

Please refer to SZCR2511005167WM Appendix_ Setup Photo-15B

8 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2511005167WM

- End of the Report -