

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241000395908

> Page: 1 of 50

TEST REPORT

Application No.: SZCR2410003959WM

Applicant: Guangdong OPPO Mobile Telecommunications Corp.,Ltd.

Address of Applicant: NO.18 Haibin Road, Wusha, Chang'an Town, Dongguan City, Guangdong,

Guangdong OPPO Mobile Telecommunications Corp., Ltd. Manufacturer:

Address of Manufacturer: NO.18 Haibin Road, Wusha, Chang'an Town, Dongguan City, Guangdong,

Equipment Under Test (EUT):

EUT Name: Mobile Phone Model No.: CPH2699 Trade Mark: OPPO

FCC ID: R9C-OP24263

Standard(s): 47 CFR Part 15, Subpart B

Date of Receipt: 2024-10-25

2024-11-26 to 2024-12-01 Date of Test:

Date of Issue: 2024-12-11

Test Result: Pass*

Keny Xu **EMC Laboratory Manager**

Ceny. Ku



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



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 2 of 50

	Revision Record						
Version	Version Chapter Date Modifier Remark						
01		2024-12-11		Original			

Authorized for issue by:			
	Sherlock Fans		
	Sherlock Fang/Project Engineer		
	Exic Fu		
	Eric Fu/Reviewer		



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241000395908

> Page: 3 of 50

2 **Test Summary**

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



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 4 of 50

Contents

		P	age
1	Cover	· Page	1
2	Tast S	Summary	4
_	10310	, and a second s	
3	Conte	nts	4
4	Gener	ral Information	ξ
	4.1 C	Details of E.U.T	5
	4.2 D	Description of Support Units	5
		Fest modes	
	4.4 N	Measurement Uncertainty	6
	4.5 T	Test Location	7
	4.6 T	Test Facility	7
		Deviation from Standards	
	4.8 A	Abnormalities from Standard Conditions	7
5	Fauin	ment List	5
	Ечигр		\
6	Emiss	sion Test Results	10
	6.1	Conducted Emissions at Mains Terminals (150kHz-30MHz)	47
	6.1.1	E.U.T. Operation	
	6.1.2	Test Mode Description	
	6.1.3	Test Setup Diagram	
	6.1.4	Measurement Procedure and Data	
	_	Radiated Emissions (30MHz-1GHz)	
	6.2.1	E.U.T. Operation	
	6.2.2	Test Mode Description	
	6.2.3	Test Setup Diagram	
	6.2.4	Measurement Procedure and Data	
	_	Radiated Emissions (Above 1GHz)	
	6.3.1	E.U.T. Operation	
	6.3.2	Test Mode Description	
	6.3.3	Test Setup Diagram	
	6.3.4	Measurement Procedure and Data	
7	Test S	Setup Photo	50
		·	
8	EUT C	Constructional Details (EUT Photos)	50



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241000395908

> Page: 5 of 50

General Information

4.1 Details of E.U.T.

Power supply:	DC 3.92V from internal rechargeable battery which can be charged by
	AC/DC adapter

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.

Item No.	Mode No.	Manufacturer	Remark		
Adapter 1	VCB4JAUH	Jiangsu Chenyang Electron Co., Ltd	/		
Adapter 2	VCB4JAUH	Huizhou Golden Lake Industrial Co., Ltd.	/		
USB cable 1	DL129	/	1		
USB cable 2	DL154	/	/		
Battery 1	BLPB87	Dongguan NVT Technology Co., Ltd	EUT1		
Battery 2	BLPB87	Chongqing Cosmx Battery Co.,LTD	EUT2		
Remark: Adapter 1 and 2 were selected to test.					

4.2 Description of Support Units

	p p		
Description	Manufacturer	Model No.	Serial No.
Router	NETGEAR	DGN2200	REF. No.SEA22A00
Laptop	Lenovo	T14	REF. No.SEA18F04
Mouse	Lenovo	M-U0025-O	REF. No.:SEA24A00
Earphone	OPPO	MH135	/

4.3 Test modes

Pretest these	19 Transfer data between the EUT1 and the PC+USB Cable1			
modes to find	Transfer data between the EUT1 and the PC+USB Cable2			
the worst case and show the	21 Transfer data between the EUT2 and the PC+USB Cable(worst)			
worse data in the test items:	22 Telecom Idle+EUT(worst)+NFC+playing MP4+USB cable(worst)+Adapter1/earphone			
	23 Telecom Idle+EUT(worst)+NFC+playing MP4+USB cable(worst)+Adapter2/earphone			
	24 Telecom Idle+EUT(worst)+NFC+BT+WLAN5G+USB cable(worst)+Adapter(worst)/earphone			
	25 Telecom Idle+EUT(worst)+NFC+camera(Front)+USB cable(worst)+Adapter(worst)/earphone			
	26 Telecom Idle+EUT(worst)+NFC+camera(Back)+USB cable(worst)+Adapter(worst)/earphone			



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241000395908

> Page: 6 of 50

	. age
27	Telecom Idle+EUT(worst)+NFC+BT+WLAN2.4G+GNSS+OTG output
28	GSM 850(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB
cable(worst)+Adap	oter(worst)/earphone
29	WCDMA Band 5(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB
cable(worst)+Adar	oter(worst)/earphone
30	LTE band 5(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB
cable(worst)+Adap	oter(worst)/earphone
31	LTE band 12(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB
cable(worst)+Adap	oter(worst)/earphone
32	LTE band 13(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB
cable(worst)+Adar	oter(worst)/earphone
33	LTE band 17(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB
cable(worst)+Adar	oter(worst)/earphone
34	LTE band 26(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB
cable(worst)+Adar	oter(worst)/earphone
35	NR_SA_N5(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB
cable(worst)+Adar	oter(worst)/earphone
36	NR_SA_N12(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB
` '	oter(worst)/earphone
37	NR_SA_N26(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB
cable(worst)+Adar	oter(worst)/earphone

4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at Mains Terminals (150kHz-30MHz)	± 3.1dB
Radiated Emissions (30MHz-1GHz)	\pm 6.0dB for 3m; \pm 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.



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> Page: 7 of 50

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



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 8 of 50

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	2022-05-14	2025-05-13	
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M- 047	2024-01-30	2025-01-29	
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05	
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13	

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	2024-08-14	2025-08-13	
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15	
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05	

Radiated Emissions (Above 1GHz)						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10	
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14	
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22	
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05	



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Report No.: SZCR241000395908

Page: 9 of 50

General used equipmen	t				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17



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> Page: 10 of 50

Emission Test Results

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

47 CFR Part 15, Subpart B Test Requirement:

Test Method: ANSI C63.4:2014

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:

22.5 °C Humidity: 44.5 % RH Atmospheric Pressure: 1020 mbar Temperature:

6.1.2 Test Mode Description

	The feet mede been plant					
Pre-scan / Final test	Mode Code	Description				
Final test	19	Transfer data between the EUT1 and the PC+USB Cable1				
Final test	20	Transfer data between the EUT1 and the PC+USB Cable2				
Pre-scan	21	Transfer data between the EUT2 and the PC+USB Cable(worst)				
Final test	22	Telecom Idle+EUT(worst)+NFC+playing MP4+USB cable(worst)+Adapter1/earphone				
Final test	23	Telecom Idle+EUT(worst)+NFC+playing MP4+USB cable(worst)+Adapter2/earphone				
Pre-scan	24	Telecom Idle+EUT(worst)+NFC+BT+WLAN5G+USB cable(worst)+Adapter(worst)/earphone				
Pre-scan	25	Telecom Idle+EUT(worst)+NFC+camera(Front)+USB cable(worst)+Adapter(worst)/earphone				
Pre-scan	26	Telecom Idle+EUT(worst)+NFC+camera(Back)+USB cable(worst)+Adapter(worst)/earphone				
Pre-scan	27	Telecom Idle+EUT(worst)+NFC+BT+WLAN2.4G+GNSS+OTG output				
Pre-scan	28	GSM 850(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB cable(worst)+Adapter(worst)/earphone				
Pre-scan	29	WCDMA Band 5(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB cable(worst)+Adapter(worst)/earphone				
Pre-scan	30	LTE band 5(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB cable(worst)+Adapter(worst)/earphone				
Pre-scan	35	NR_SA_N5(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB cable(worst)+Adapter(worst)/earphone				



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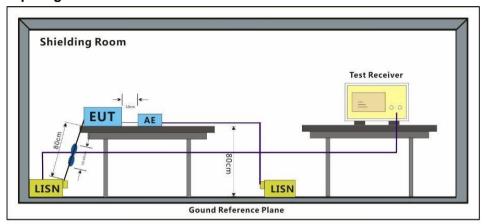


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 11 of 50

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



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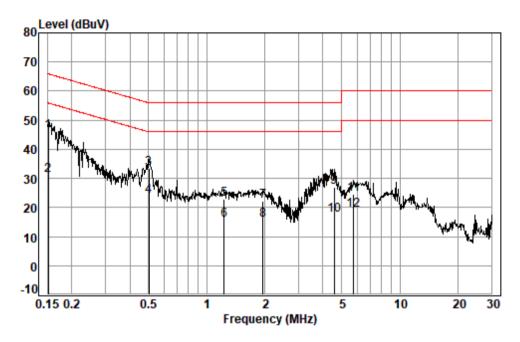


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 12 of 50

Test Mode: 19: Line: Live line



: Shielding Room

Condition: Line Job No. : 03959WM

Test mode: 19

	Гпол	Cable	LISN	Read	Laval	Limit	0ver	Damanle
	Freq	LOSS	Factor	Level	Level	Line	LIMIC	Remark
-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1516	0.06	10.19	35.85	46.10	65.91	-19.81	QP
2	0.1516	0.06	10.19	20.95	31.20	55.91	-24.71	Average
3	0.5020	0.08	9.54	23.95	33.57	56.00	-22.43	QP
4 *	0.5020	0.08	9.54	14.16	23.78	46.00	-22.22	Average
5	1.2291	0.09	9.58	13.34	23.01	56.00	-32.99	QP
6	1.2291	0.09	9.58	5.97	15.64	46.00	-30.36	Average
7	1.9593	0.10	9.58	12.41	22.09	56.00	-33.91	QP
8	1.9593	0.10	9.58	6.05	15.73	46.00	-30.27	Average
9	4.5736	0.12	9.66	17.24	27.02	56.00	-28.98	QP
10	4.5736	0.12	9.66	7.76	17.54	46.00	-28.46	Average
11	5.7743	0.14	9.67	14.79	24.60	60.00	-35.40	QP
12	5.7743	0.14	9.67	9.18	18.99	50.00	-31.01	Average



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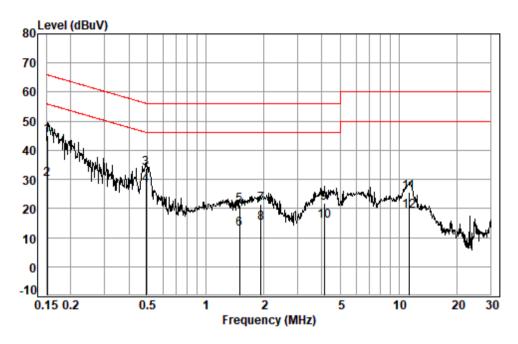


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 13 of 50

Test Mode: 19: Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 03959WM

Test mode: 19

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1516	0.06	10.15	34.95	45.16	65.91	-20.75	QP
2	0.1516	0.06	10.15	19.94	30.15	55.91	-25.76	Average
3	0.4915	0.08	9.71	24.03	33.82	56.14	-22.32	QP
4 *	0.4915	0.08	9.71	18.06	27.85	46.14	-18.29	Average
5	1.4953	0.10	9.55	11.60	21.25	56.00	-34.75	QP
6	1.4953	0.10	9.55	3.27	12.92	46.00	-33.08	Average
7	1.9386	0.10	9.55	11.99	21.64	56.00	-34.36	QP
8	1.9386	0.10	9.55	5.37	15.02	46.00	-30.98	Average
9	4.1137	0.12	9.55	12.20	21.87	56.00	-34.13	QP
10	4.1137	0.12	9.55	5.91	15.58	46.00	-30.42	Average
11	11.3170	0.22	9.66	15.78	25.66	60.00	-34.34	QP
12	11.3170	0.22	9.66	9.22	19.10	50.00	-30.90	Average



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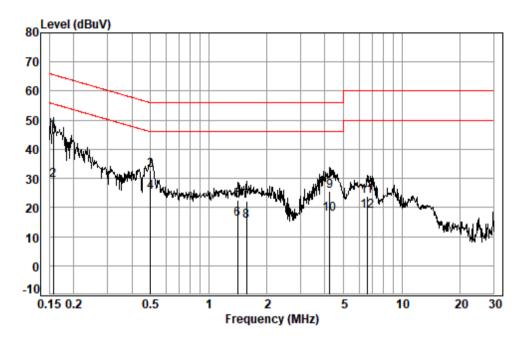


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 14 of 50

Test Mode: 20: Line: Live line



: Shielding Room

Condition: Line Job No. : 03959WM

Test mode: 20

	Гпол	Cable	LISN	Read	Laval	Limit	0ver	Damanle
	Freq	LOSS	Factor	Level	Level	Line	LIMIC	Remark
-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1573	0.06	10.18	35.84	46.08	65.60	-19.52	QP
2	0.1573	0.06	10.18	19.03	29.27	55.60	-26.33	Average
3	0.4994	0.08	9.54	23.18	32.80	56.01	-23.21	QP
4 *	0.4994	0.08	9.54	15.73	25.35	46.01	-20.66	Average
5	1.4107	0.10	9.58	12.82	22.50	56.00	-33.50	QP
6	1.4107	0.10	9.58	6.48	16.16	46.00	-29.84	Average
7	1.5684	0.10	9.58	12.58	22.26	56.00	-33.74	QP
8	1.5684	0.10	9.58	5.67	15.35	46.00	-30.65	Average
9	4.2466	0.12	9.66	15.80	25.58	56.00	-30.42	QP
10	4.2466	0.12	9.66	7.96	17.74	46.00	-28.26	Average
11	6.6272	0.15	9.68	14.18	24.01	60.00	-35.99	QP
12	6.6272	0.15	9.68	8.83	18.66	50.00	-31.34	Average

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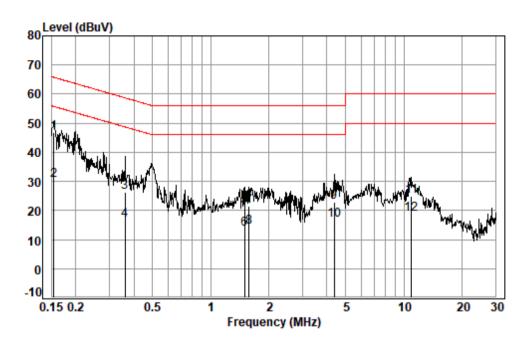


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 15 of 50

Test Mode: 20: Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 03959WM

Test mode: 20

	Frea	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	36.48	46.68	65 78	-19.10	OP
	* 0.1540	0.06	10.14	20.29	30.49			Average
3	0.3615	0.07	9.75	16.51	26.33		-32.36	_
4	0.3615	0.07	9.75	6.77	16.59	48.69	-32.10	Average
5	1.4953	0.10	9.55	11.75	21.40	56.00	-34.60	QP
6	1.4953	0.10	9.55	4.01	13.66	46.00	-32.34	Average
7	1.5767	0.10	9.55	11.70	21.35	56.00	-34.65	QP
8	1.5767	0.10	9.55	4.79	14.44	46.00	-31.56	Average
9	4.3606	0.12	9.55	13.30	22.97	56.00	-33.03	QP
10	4.3606	0.12	9.55	6.95	16.62	46.00	-29.38	Average
11	10.9629	0.21	9.64	15.13	24.98	60.00	-35.02	QP
12	10.9629	0.21	9.64	8.76	18.61	50.00	-31.39	Average



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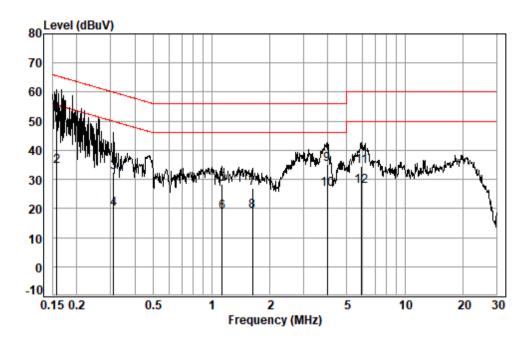


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Report No.: SZCR241000395908

Page: 16 of 50

Test Mode: 22: Line: Live line



: Shielding Room

Condition: Line Job No. : 03959WM

Test mode: 22

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1582	0.06	10.18	42.10	52.34	65.56	-13.22	QP
2	0.1582	0.06	10.18	24.39	34.63	55.56	-20.93	Average
3	0.3116	0.07	9.83	22.38	32.28	59.93	-27.65	QP
4	0.3116	0.07	9.83	9.97	19.87	49.93	-30.06	Average
5	1.1352	0.09	9.58	18.56	28.23	56.00	-27.77	QP
6	1.1352	0.09	9.58	9.24	18.91	46.00	-27.09	Average
7	1.6276	0.10	9.58	17.31	26.99	56.00	-29.01	QP
8	1.6276	0.10	9.58	9.27	18.95	46.00	-27.05	Average
9	3.9639	0.12	9.66	25.30	35.08	56.00	-20.92	QP
10 *	3.9639	0.12	9.66	16.84	26.62	46.00	-19.38	Average
11	5.9608	0.14	9.67	24.72	34.53	60.00	-25.47	QP
12	5.9608	0.14	9.67	18.00	27.81	50.00	-22.19	Average



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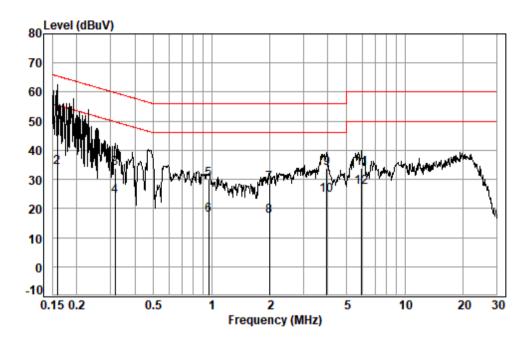


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Report No.: SZCR241000395908

Page: 17 of 50

Test Mode: 22: Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 03959WM

Test mode: 22

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1590	0.06	10.14	41.95	52.15	65.52	-13.37	QP
2 *	0.1590	0.06	10.14	24.04	34.24	55.52	-21.28	Average
3	0.3166	0.07	9.76	23.85	33.68	59.80	-26.12	QP
4	0.3166	0.07	9.76	14.35	24.18	49.80	-25.62	Average
5	0.9684	0.09	9.55	20.50	30.14	56.00	-25.86	QP
6	0.9684	0.09	9.55	7.94	17.58	46.00	-28.42	Average
7	1.9906	0.10	9.55	19.13	28.78	56.00	-27.22	QP
8	1.9906	0.10	9.55	7.82	17.47	46.00	-28.53	Average
9	3.9430	0.12	9.55	23.99	33.66	56.00	-22.34	QP
10	3.9430	0.12	9.55	14.78	24.45	46.00	-21.55	Average
11	5.9608	0.14	9.61	24.10	33.85	60.00	-26.15	QP
12	5.9608	0.14	9.61	17.47	27.22	50.00	-22.78	Average



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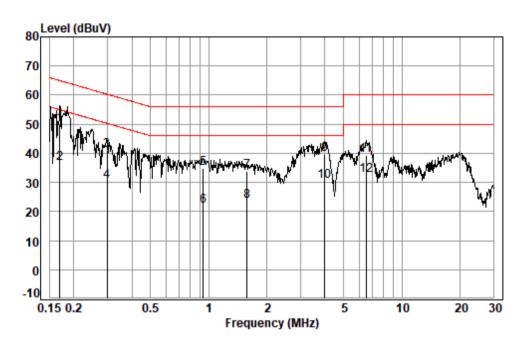


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 18 of 50

Test Mode: 23: Line: Live line



: Shielding Room

Condition: Line Job No. : 03959WM

Test mode: 23

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1694	0.06	10.16	39.64	49.86	64.99	-15.13	QP
2	0.1694	0.06	10.16	26.42	36.64	54.99	-18.35	Average
3	0.2987	0.07	9.85	31.12	41.04	60.28	-19.24	QP
4	0.2987	0.07	9.85	20.47	30.39	50.28	-19.89	Average
5	0.9381	0.09	9.59	25.19	34.87	56.00	-21.13	QP
6	0.9381	0.09	9.59	12.23	21.91	46.00	-24.09	Average
7	1.5851	0.10	9.58	24.04	33.72	56.00	-22.28	QP
8	1.5851	0.10	9.58	13.98	23.66	46.00	-22.34	Average
9	3.9850	0.12	9.66	29.97	39.75	56.00	-16.25	QP
10 *	3.9850	0.12	9.66	20.62	30.40	46.00	-15.60	Average
11	6.5227	0.15	9.68	29.49	39.32	60.00	-20.68	QP
12	6.5227	0.15	9.68	22.77	32.60	50.00	-17.40	Average



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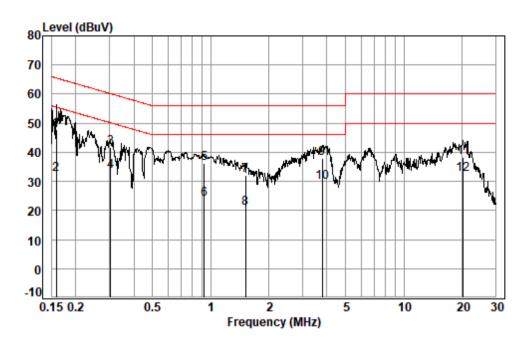


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 19 of 50

Test Mode: 23: Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 03959WM

Test mode: 23

	_	Cable	LISN	Read		Limit	0ver	_
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1590	0.06	10.14	37.79	47.99	65.52	-17.53	QP
2	0.1590	0.06	10.14	22.16	32.36	55.52	-23.16	Average
3	0.3035	0.07	9.77	31.68	41.52	60.15	-18.63	QP
4	0.3035	0.07	9.77	23.75	33.59	50.15	-16.56	Average
5	0.9282	0.09	9.56	26.62	36.27	56.00	-19.73	QP
6	0.9282	0.09	9.56	14.23	23.88	46.00	-22.12	Average
7	1.5193	0.10	9.55	22.55	32.20	56.00	-23.80	QP
8	1.5193	0.10	9.55	11.21	20.86	46.00	-25.14	Average
9	3.7794	0.11	9.55	28.23	37.89	56.00	-18.11	QP
10 *	3.7794	0.11	9.55	20.10	29.76	46.00	-16.24	Average
11	20.2696	0.30	10.17	27.69	38.16	60.00	-21.84	QP
12	20.2696	0.30	10.17	21.80	32.27	50.00	-17.73	Average

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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241000395908

> Page: 20 of 50

6.2 Radiated Emissions (30MHz-1GHz)

47 CFR Part 15, Subpart B Test Requirement:

Test Method: ANSI C63.4:2014

Measurement Distance: 3m

Limit:

FREQUENCY (MHz)	dBμV/m (At 10m)	dBμV/m (At 3m)					
FREQUENCY (MIDZ)	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-s	Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz						

6.2.1 E.U.T. Operation

Operating Environment:

20.2 °C Humidity: 45.2 % RH Temperature: Atmospheric Pressure: 1020 mbar

6.2.2 Test Mode Description

	Mode Descrip	· · · · · · · · · · · · · · · · · · ·
Pre-scan / Final test	Mode Code	Description
Final test	19	Transfer data between the EUT1 and the PC+USB Cable1
Final test	20	Transfer data between the EUT1 and the PC+USB Cable2
Final test	21	Transfer data between the EUT2 and the PC+USB Cable(worst)
Final test	22	Telecom Idle+EUT(worst)+NFC+playing MP4+USB cable(worst)+Adapter1/earphone
Final test	23	Telecom Idle+EUT(worst)+NFC+playing MP4+USB cable(worst)+Adapter2/earphone
Pre-scan	24	Telecom Idle+EUT(worst)+NFC+BT+WLAN5G+USB cable(worst)+Adapter(worst)/earphone
Final test	25	Telecom Idle+EUT(worst)+NFC+camera(Front)+USB cable(worst)+Adapter(worst)/earphone
Final test	26	Telecom Idle+EUT(worst)+NFC+camera(Back)+USB cable(worst)+Adapter(worst)/earphone
Pre-scan	27	Telecom Idle+EUT(worst)+NFC+BT+WLAN2.4G+GNSS+OTG output
Pre-scan	28	GSM 850(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB cable(worst)+Adapter(worst)/earphone
Pre-scan	29	WCDMA Band 5(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB cable(worst)+Adapter(worst)/earphone
Pre-scan	30	LTE band 5(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB



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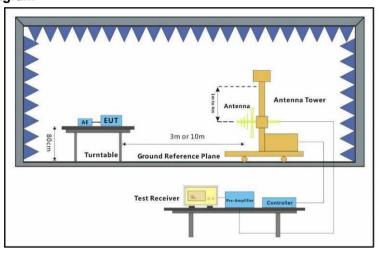
SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 21 of 50

		cable(worst)+Adapter(worst)/earphone
Pre-scan	35	NR_SA_N5(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB cable(worst)+Adapter(worst)/earphone

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



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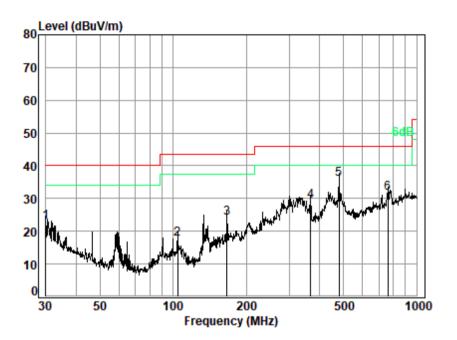


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 22 of 50

Test Mode: 19; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 03959WM

Test Mode: 19

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.000	21.20	0.67	27.79	28.63	22.71	40.00	-17.29	QP
2	104.170	12.22	1.25	27.57	31.88	17.78	43.50	-25.72	QP
3	166.068	13.16	1.62	27.31	36.66	24.13	43.50	-19.37	QP
4	366.823	20.35	2.47	27.02	33.35	29.15	46.00	-16.85	QP
5 q	480.528	22.75	2.86	27.48	37.62	35.75	46.00	-10.25	QP
6	763.376	26.52	3.75	27.57	28.89	31.59	46.00	-14.41	OP



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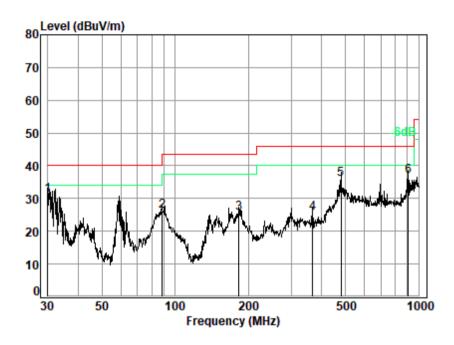


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 23 of 50

Test Mode: 19; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL Job No. : 03959WM

Test Mode: 19

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	30.000	21.20	0.67	27.79	37.01	31.09	40.00	-8.91	QP
2	88.342	11.52	1.15	27.62	41.07	26.12	43.50	-17.38	QP
3	183.201	14.20	1.69	27.24	36.82	25.47	43.50	-18.03	QP
4	366.823	20.35	2.47	27.02	29.64	25.44	46.00	-20.56	QP
5	480.528	22.75	2.86	27.48	37.89	36.02	46.00	-9.98	QP
6	906.482	27.87	4.14	26.72	31.46	36.75	46.00	-9.25	OP



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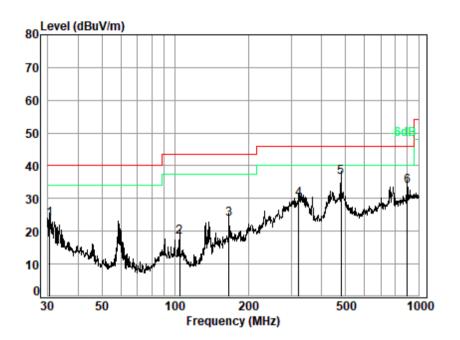


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 24 of 50

Test Mode: 20; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 03959WM

Test Mode: 20

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.531	20.95	0.68	27.79	29.76	23.60	40.00	-16.40	QP
2	104.170	12.22	1.25	27.57	32.37	18.27	43.50	-25.23	QP
3	166.068	13.16	1.62	27.31	36.11	23.58	43.50	-19.92	QP
4	322.189	18.55	2.29	26.84	35.75	29.75	46.00	-16.25	QP
5 q	480.528	22.75	2.86	27.48	38.26	36.39	46.00	-9.61	QP
6	900.147	27.82	4.12	26.76	28.57	33.75	46.00	-12.25	OP



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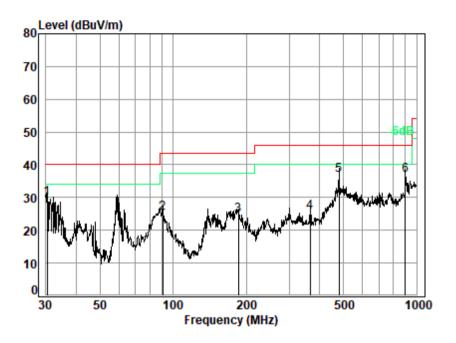


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 25 of 50

Test Mode: 20; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 03959WM

Test Mode: 20

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.317	21.05	0.67	27.79	35.80	29.73	40.00	-10.27	QP
2	90.537	11.77	1.16	27.62	39.97	25.28	43.50	-18.22	QP
3	185.138	14.27	1.70	27.23	35.75	24.49	43.50	-19.01	QP
4	365.539	20.31	2.46	27.02	29.74	25.49	46.00	-20.51	QP
5 q	480.528	22.75	2.86	27.48	38.79	36.92	46.00	-9.08	QP
6	900.147	27.82	4.12	26.76	31.51	36.69	46.00	-9.31	OP



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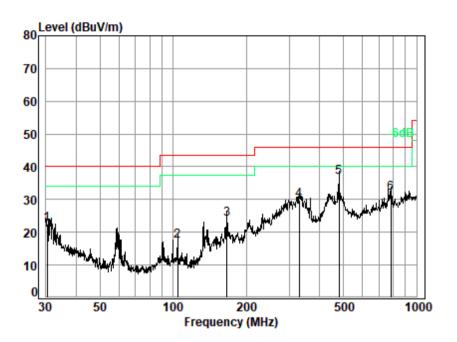


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 26 of 50

Test Mode: 21; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 03959WM

Test Mode: 21

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.317	21.05	0.67	27.79	28.72	22.65	40.00	-17.35	QP
2	104.170	12.22	1.25	27.57	31.31	17.21	43.50	-26.29	QP
3	166.651	13.15	1.62	27.31	36.63	24.09	43.50	-19.41	QP
4	329.039	18.68	2.32	26.87	35.76	29.89	46.00	-16.11	QP
5 q	480.528	22.75	2.86	27.48	38.56	36.69	46.00	-9.31	QP
6	782.345	27.08	3.81	27.52	28.43	31.80	46.00	-14.20	OP



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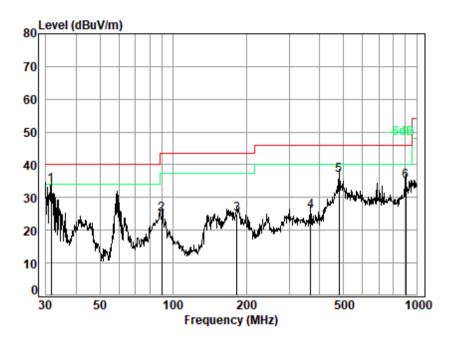


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 27 of 50

Test Mode: 21; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 03959WM

Test Mode: 21

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	31.510	20.50	0.69	27.79	40.24	33.64	40.00	-6.36	QP
2	89.905	11.72	1.16	27.62	39.55	24.81	43.50	-18.69	QP
3	182.559	14.17	1.69	27.24	36.44	25.06	43.50	-18.44	QP
4	366.823	20.35	2.47	27.02	29.92	25.72	46.00	-20.28	QP
5	480.528	22.75	2.86	27.48	38.55	36.68	46.00	-9.32	QP
6	903.309	27.83	4.13	26.74	29.88	35.10	46.00	-10.90	OP



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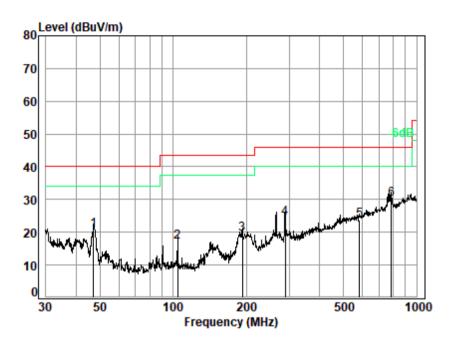


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 28 of 50

Test Mode: 22; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 03959WM

Test Mode: 22

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	47.160	13.59	0.84	27.74	33.91	20.60	40.00	-19.40	QP
2	104.170	12.22	1.25	27.57	31.09	16.99	43.50	-26.51	QP
3	192.419	14.23	1.73	27.20	30.58	19.34	43.50	-24.16	QP
4	289.002	17.01	2.16	26.80	32.04	24.41	46.00	-21.59	QP
5	582.743	24.05	3.19	27.90	24.28	23.62	46.00	-22.38	QP
6 a	787.851	27.15	3.82	27.51	26.77	30.23	46.00	-15.77	OP



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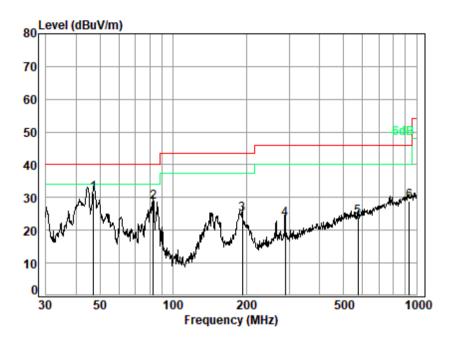


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 29 of 50

Test Mode: 22; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 03959WM

Test Mode: 22

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	47.160	13.59	0.84	27.74	44.65	31.34	40.00	-8.66	QP
2	82.938	10.72	1.11	27.64	44.26	28.45	40.00	-11.55	QP
3	192.419	14.23	1.73	27.20	36.25	25.01	43.50	-18.49	QP
4	289.002	17.01	2.16	26.80	31.05	23.42	46.00	-22.58	QP
5	574.626	23.80	3.16	27.87	24.97	24.06	46.00	-21.94	QP
6	935.546	28.18	4.22	26.51	23.08	28.97	46.00	-17.03	OP



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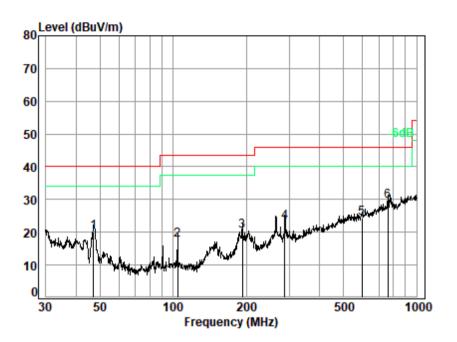


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 30 of 50

Test Mode: 23; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 03959WM

Test Mode: 23

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	47.160	13.59	0.84	27.74	33.48	20.17	40.00	-19.83	QP
2	104.170	12.22	1.25	27.57	31.63	17.53	43.50	-25.97	QP
3	192.419	14.23	1.73	27.20	31.62	20.38	43.50	-23.12	QP
4	287.990	16.98	2.16	26.80	30.89	23.23	46.00	-22.77	QP
5	597.223	24.44	3.23	27.96	24.51	24.22	46.00	-21.78	QP
6 a	760.704	26.47	3.74	27.58	26.83	29.46	46.00	-16.54	OP



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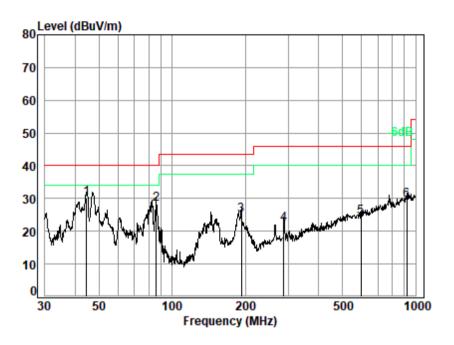


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 31 of 50

Test Mode: 23; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL Job No. : 03959WM

Test Mode: 23

		Ant	Cable	Preamp	Read		Limit	0ver				
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark			
_												
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB				
1 q	44.587	14.36	0.82	27.75	42.65	30.08	40.00	-9.92	QP			
2	85.898	11.15	1.13	27.63	43.51	28.16	40.00	-11.84	QP			
3	192.419	14.23	1.73	27.20	36.26	25.02	43.50	-18.48	QP			
4	287.990	16.98	2.16	26.80	29.87	22.21	46.00	-23.79	QP			
5	597.223	24.44	3.23	27.96	24.54	24.25	46.00	-21.75	QP			
6	919.287	28.17	4.17	26.63	23.82	29.53	46.00	-16.47	QP			



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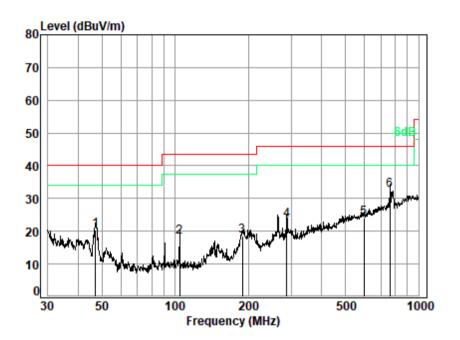


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 32 of 50

Test Mode: 25; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 03959WM

Test Mode: 25

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	47.160	13.59	0.84	27.74	33.73	20.42	40.00	-19.58	QP
2	104.170	12.22	1.25	27.57	32.39	18.29	43.50	-25.21	QP
3	189.074	14.29	1.72	27.22	29.71	18.50	43.50	-25.00	QP
4	287.990	16.98	2.16	26.80	30.96	23.30	46.00	-22.70	QP
5	597.223	24.44	3.23	27.96	24.23	23.94	46.00	-22.06	QP
6 a	763.376	26.52	3.75	27.57	29.75	32.45	46.00	-13.55	OP



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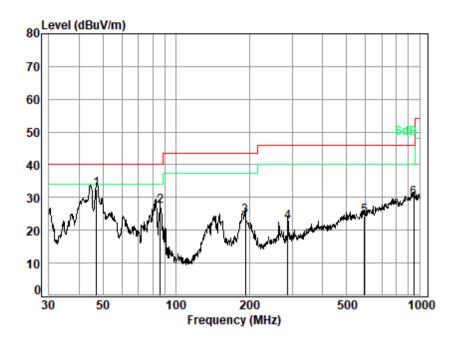


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 33 of 50

Test Mode: 25; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL Job No. : 03959WM

Test Mode: 25

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	——dB	
1 q	47.160	13.59	0.84	27.74	45.71	32.40	40.00	-7.60	QP
2	85.898	11.15	1.13	27.63	42.86	27.51	40.00	-12.49	QP
3	192.419	14.23	1.73	27.20	35.67	24.43	43.50	-19.07	QP
4	287.990	16.98	2.16	26.80	30.05	22.39	46.00	-23.61	QP
5	593.050	24.45	3.22	27.94	24.56	24.29	46.00	-21.71	QP
6	948.761	28.23	4.25	26.42	23.68	29.74	46.00	-16.26	OP



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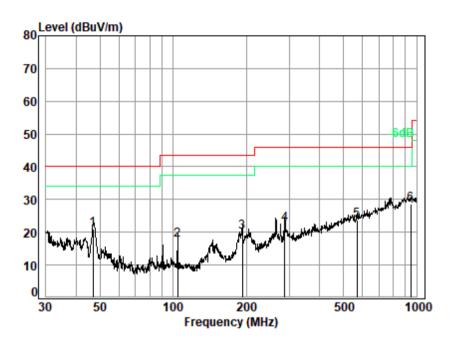


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 34 of 50

Test Mode: 26; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 03959WM

Test Mode: 26

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	46.830	13.69	0.84	27.74	34.28	21.07	40.00	-18.93	QP
2	104.170	12.22	1.25	27.57	31.65	17.55	43.50	-25.95	QP
3	192.419	14.23	1.73	27.20	31.33	20.09	43.50	-23.41	QP
4	287.990	16.98	2.16	26.80	30.16	22.50	46.00	-23.50	QP
5	568.613	23.59	3.15	27.84	24.81	23.71	46.00	-22.29	QP
6 a	945.440	28.26	4.24	26.44	22.60	28.66	46.00	-17.34	OP.



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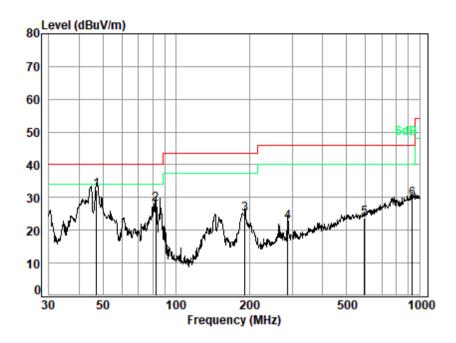


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 35 of 50

Test Mode: 26: Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 03959WM Test Mode: 26

Ant Cable Preamp Limit 0ver Read Loss Factor Freq Factor Level Line Limit Remark Level MHz dB/m dB dBuV dBuV/m dBuV/m 0.84 27.74 45.68 32.37 40.00 -7.63 OP 47.160 13.59 82.648 10.69 1.11 27.64 43.91 28.07 40.00 -11.93 QP 2 3 191.745 14.26 1.73 27.20 36.11 24.90 43.50 -18.60 QP 2.16 26.80 30.19 4 287.990 16.98 22.53 46.00 -23.47 QP 5 593.050 24.45 3.22 27.94 23.89 23.62 46.00 -22.38 QP 935.546 28.18 4.22 26.51 23.73 29.62 46.00 -16.38 QP



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241000395908

> Page: 36 of 50

6.3 Radiated Emissions (Above 1GHz)

47 CFR Part 15, Subpart B Test Requirement:

Test Method: ANSI C63.4:2014

Measurement Distance: 3m

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: 20.8 °C Humidity: 44.7 % RH Atmospheric Pressure: 1020 mbar

6.3.2 Test Mode Description

0.5.2 Test Mode Description								
Pre-scan / Final test	Mode Code	Description						
Final test	19	Transfer data between the EUT1 and the PC+USB Cable1						
Final test	20	Transfer data between the EUT1 and the PC+USB Cable2						
Final test	21	Transfer data between the EUT2 and the PC+USB Cable(worst)						
Pre-scan	22	Telecom Idle+EUT(worst)+NFC+playing MP4+USB cable(worst)+Adapter1/earphone						
Pre-scan	23	Telecom Idle+EUT(worst)+NFC+playing MP4+USB cable(worst)+Adapter2/earphone						
Final test	24	Telecom Idle+EUT(worst)+NFC+BT+WLAN5G+USB cable(worst)+Adapter(worst)/earphone						
Final test	25	Telecom Idle+EUT(worst)+NFC+camera(Front)+USB cable(worst)+Adapter(worst)/earphone						
Final test	26	Telecom Idle+EUT(worst)+NFC+camera(Back)+USB cable(worst)+Adapter(worst)/earphone						
Pre-scan	27	Telecom Idle+EUT(worst)+NFC+BT+WLAN2.4G+GNSS+OTG output						
Pre-scan	28	GSM 850(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB cable(worst)+Adapter(worst)/earphone						
Pre-scan	29	WCDMA Band 5(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB cable(worst)+Adapter(worst)/earphone						
Pre-scan	30	LTE band 5(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB cable(worst)+Adapter(worst)/earphone						
Pre-scan	35	NR_SA_N5(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB cable(worst)+Adapter(worst)/earphone						



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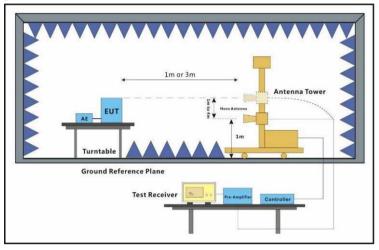


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 37 of 50

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



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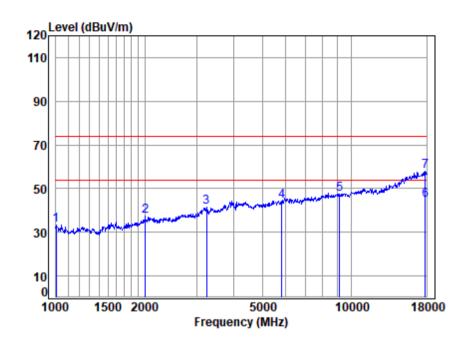


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 38 of 50

Test Mode: 19; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

: 03959WM Job No

Mode : 19

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1002.895	4.55	26.21	54.60	57.12	33.28	74.00	-40.72	Peak
2	2006.877	5.55	28.83	54.90	57.95	37.43	74.00	-36.57	Peak
3	3233.260	6.79	32.37	54.82	57.08	41.42	74.00	-32.58	Peak
4	5813.812	9.44	34.33	53.29	53.99	44.47	74.00	-29.53	Peak
5	9152.479	11.64	37.00	53.54	52.57	47.67	74.00	-26.33	Peak
6	q17793.090	16.37	43.89	52.50	37.09	44.85	54.00	-9.15	Average
7	p17793.090	16.37	43.89	52.50	50.27	58.03	74.00	-15.97	Peak



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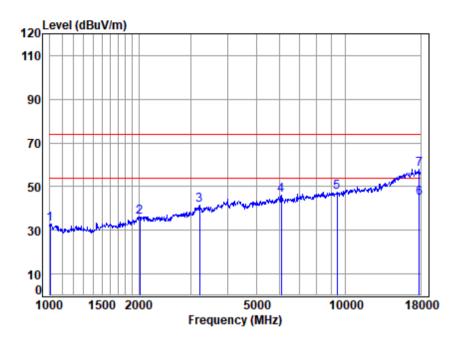


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 39 of 50

Test Mode: 19; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 03959WM

Mode : 19

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1002.895	4.55	26.21	54.60	56.86	33.02	74.00	-40.98	Peak
2	2018.511	5.58	28.87	54.90	56.72	36.27	74.00	-37.73	Peak
3	3214.623	6.79	32.67	54.83	56.67	41.30	74.00	-32.70	Peak
4	6071.417	9.46	35.04	53.11	54.80	46.19	74.00	-27.81	Peak
5	9393.689	11.52	37.31	53.44	51.84	47.23	74.00	-26.77	Peak
6 0	17793.090	16.37	43.89	52.50	36.98	44.74	54.00	-9.26	Average
7 p	17793.090	16.37	43.89	52.50	50.09	57.85	74.00	-16.15	Peak



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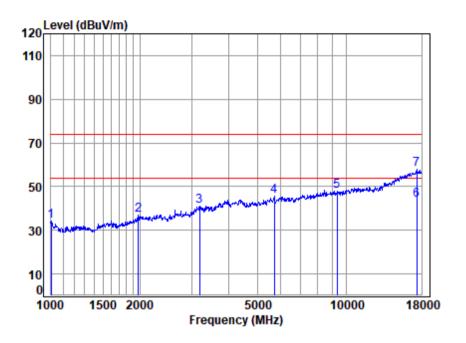


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 40 of 50

Test Mode: 20; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

: 03959WM Job No

Mode : 20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	d Bu V/m	dB	
1	1002.895	4.55	26.21	54.60	58.03	34.19	74.00	-39.81	Peak
2	1978.082	5.50	28.41	54.90	57.85	36.86	74.00	-37.14	Peak
3	3186.869	6.77	32.79	54.85	56.54	41.25	74.00	-32.75	Peak
4	5713.856	9.40	34.27	53.39	55.37	45.65	74.00	-28.35	Peak
5	9312.588	11.56	37.40	53.47	52.34	47.83	74.00	-26.17	Peak
6	q17336.200	16.05	43.21	52.73	37.40	43.93	54.00	-10.07	Average
7	p17336.200	16.05	43.21	52.73	51.24	57.77	74.00	-16.23	Peak



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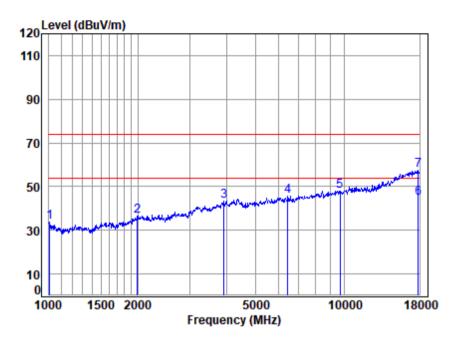


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 41 of 50

Test Mode: 20; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL : 03959WM Job No

Mode : 20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1005.797	4.55	26.11	54.60	57.78	33.84	74.00	-40.16	Peak
2	1995.309	5.53	28.72	54.90	56.98	36.33	74.00	-37.67	Peak
3	3912.809	8.28	33.72	54.35	55.75	43.40	74.00	-30.60	Peak
4	6451.353	9.18	35.50	53.15	54.06	45.59	74.00	-28.41	Peak
5	9669.164	11.37	37.50	53.33	52.43	47.97	74.00	-26.03	Peak
6	q17844.590	16.39	43.90	52.48	36.90	44.71	54.00	-9.29	Average
7	p17844.590	16.39	43.90	52.48	49.81	57.62	74.00	-16.38	Peak



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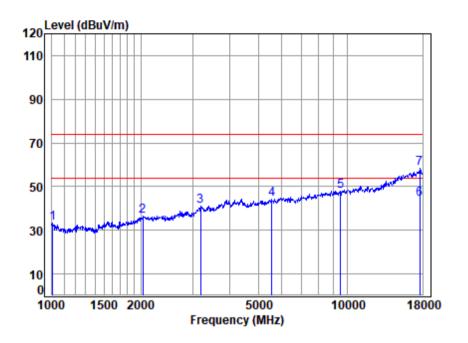


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 42 of 50

Test Mode: 21; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03959WM

Mode : 21

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1005.797	4.55	26.11	54.60	57.13	33.19	74.00	-40.81	Peak
2	2036.090	5.62	28.94	54.90	56.74	36.40	74.00	-37.60	Peak
3	3186.869	6.77	32.79	54.85	56.15	40.86	74.00	-33.14	Peak
4	5551.069	9.32	34.70	53.57	53.95	44.40	74.00	-29.60	Peak
5	9502.925	11.47	37.50	53.39	52.32	47.90	74.00	-26.10	Peak
6	q17588.560	16.27	43.58	52.60	37.08	44.33	54.00	-9.67	Average
7	p17588.560	16.27	43.58	52.60	50.98	58.23	74.00	-15.77	Peak



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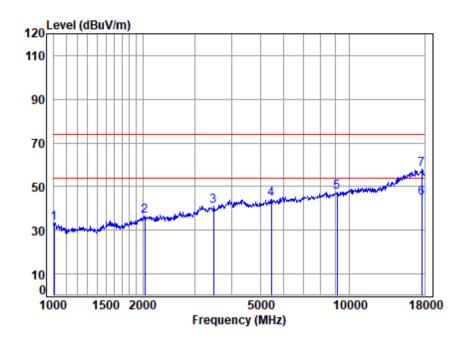


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 43 of 50

Test Mode: 21; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 03959WM

Mode : 21

	_			Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1002.895	4.55	26.21	54.60	57.27	33.43	74.00	-40.57	Peak
2	2030.214	5.60	28.92	54.90	56.77	36.39	74.00	-37.61	Peak
3	3475.541	6.88	31.70	54.64	57.07	41.01	74.00	-32.99	Peak
4	5439.885	9.16	34.68	53.69	53.93	44.08	74.00	-29.92	Peak
5	9099.724	11.67	37.00	53.56	52.53	47.64	74.00	-26.36	Peak
6	q17639.470	16.29	43.68	52.58	37.27	44.66	54.00	-9.34	Average
7	p17639.470	16.29	43.68	52.58	50.44	57.83	74.00	-16.17	Peak



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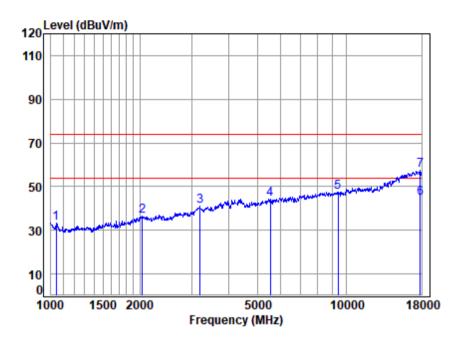


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 44 of 50

Test Mode: 24; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03959WM

Mode : 24

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1041.295	4.55	24.98	54.62	58.35	33.26	74.00	-40.74	Peak
2	2041.984	5.63	28.97	54.91	56.64	36.33	74.00	-37.67	Peak
3	3196.094	6.78	32.87	54.85	56.47	41.27	74.00	-32.73	Peak
4	5535.047	9.32	34.64	53.59	54.03	44.40	74.00	-29.60	Peak
5	9393.689	11.52	37.31	53.44	52.07	47.46	74.00	-26.54	Peak
6	q17844.590	16.39	43.90	52.48	36.92	44.73	54.00	-9.27	Average
7	p17844.590	16.39	43.90	52.48	49.65	57.46	74.00	-16.54	Peak



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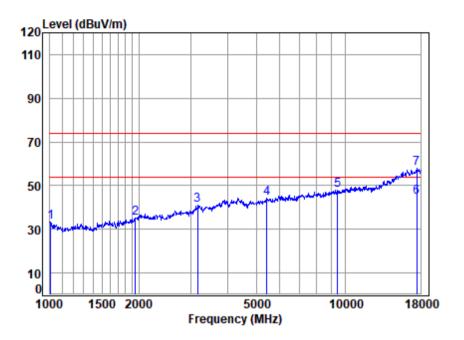


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 45 of 50

Test Mode: 24: Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 03959WM Mode : 24

1

2

4

5

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Freq Level Level MHz dB dB/m dBuV dBuV/m dBuV/m 26.11 54.60 1005.797 4.55 57.28 33.34 74.00 -40.66 Peak 1944.073 5.44 27.84 54.89 56.70 35.09 74.00 -38.91 Peak 3168.500 6.77 32.65 54.87 56.62 41.17 74.00 -32.83 Peak 5424.184 9.12 34.65 53.71 54.04 44.10 74.00 -29.90 Peak 9420.880 11.51 37.34 53.43 52.33 47.75 74.00 -26.25 Peak 6 q17487.180 16.22 43.40 52.65 37.68 44.65 54.00 -9.35 Average 7 p17487.180 16.22 43.40 52.65 50.81 57.78 74.00 -16.22 Peak



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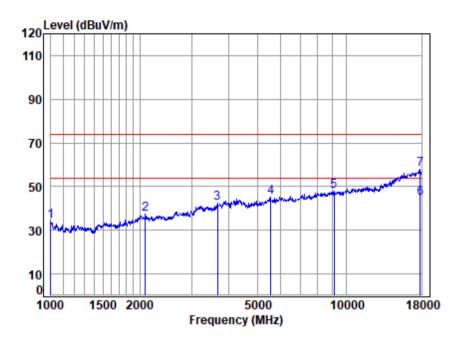


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 46 of 50

Test Mode: 25; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

: 03959WM Job No

Mode : 25

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1000.000	4.55	26.30	54.60	58.01	34.26	74.00	-39.74	Peak
2	2089.751	5.73	28.84	54.91	57.60	37.26	74.00	-36.74	Peak
3	3661.149	7.45	32.77	54.52	56.52	42.22	74.00	-31.78	Peak
4	5551.069	9.32	34.70	53.57	54.59	45.04	74.00	-28.96	Peak
5	9099.724	11.67	37.00	53.56	52.79	47.90	74.00	-26.10	Peak
6	q17844.590	16.39	43.90	52.48	37.06	44.87	54.00	-9.13	Average
7	n17844.590	16.39	43.90	52.48	50.17	57.98	74.00	-16.02	Peak



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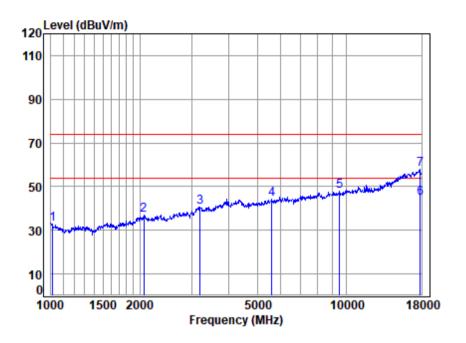


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 47 of 50

Test Mode: 25; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 03959WM

Mode : 25

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1014.557	4.55	25.83	54.61	56.92	32.69	/4.00	-41.31	Peak
2	2065.729	5.68	28.94	54.91	57.23	36.94	74.00	-37.06	Peak
3	3196.094	6.78	32.87	54.85	56.01	40.81	74.00	-33.19	Peak
4	5599.412	9.35	34.70	53.52	53.76	44.29	74.00	-29.71	Peak
5	9502.925	11.47	37.50	53.39	52.40	47.98	74.00	-26.02	Peak
6 q	17793.090	16.37	43.89	52.50	37.16	44.92	54.00	-9.08	Average
7 p	17793.090	16.37	43.89	52.50	50.07	57.83	74.00	-16.17	Peak



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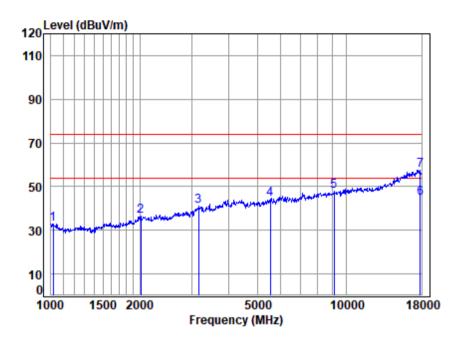


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 48 of 50

Test Mode: 26; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03959WM

Mode : 26

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1017.493	4.55	25.74	54.61	57.24	32.92	74.00	-41.08	Peak
2	2018.511	5.58	28.87	54.90	57.16	36.71	74.00	-37.29	Peak
3	3168.500	6.77	32.65	54.87	56.39	40.94	74.00	-33.06	Peak
4	5535.047	9.32	34.64	53.59	53.99	44.36	74.00	-29.64	Peak
5	9099.724	11.67	37.00	53.56	52.82	47.93	74.00	-26.07	Peak
6	q17793.090	16.37	43.89	52.50	36.99	44.75	54.00	-9.25	Average
7	p17793.090	16.37	43.89	52.50	49.64	57.40	74.00	-16.60	Peak



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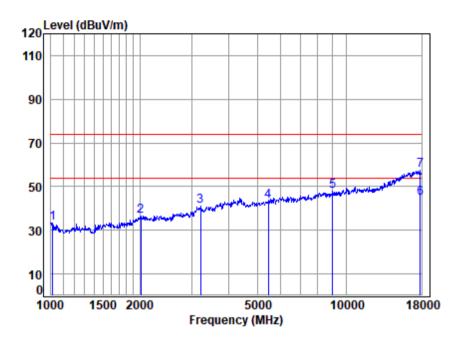


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000395908

Page: 49 of 50

Test Mode: 26; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 03959WM

Mode : 26

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1014.557	4.55	25.83	54.61	57.59	33.36	74.00	-40.64	Peak
2	2018.511	5.58	28.87	54.90	57.07	36.62	74.00	-37.38	Peak
3	3214.623	6.79	32.67	54.83	56.40	41.03	74.00	-32.97	Peak
4	5439.885	9.16	34.68	53.69	53.38	43.53	74.00	-30.47	Peak
5	8995.123	11.70	36.91	53.60	52.94	47.95	74.00	-26.05	Peak
6	q17793.090	16.37	43.89	52.50	37.11	44.87	54.00	-9.13	Average
7	p17793.090	16.37	43.89	52.50	49.86	57.62	74.00	-16.38	Peak



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241000395908

> Page: 50 of 50

Test Setup Photo

Please refer to SZCR2410003959 Appendix_Setup Photo

EUT Constructional Details (EUT Photos) 8

Refer to Appendix - External and Internal Photos for SZCR2410003959WM

- End of the Report -



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