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FCC REPORT Application No. : SZEM1609007929CR Applicant: Winspeed Co., Ltd. Manufacturer: Winspeed Co., Ltd. Winspeed Co., Ltd. Factory: STRIKE NX Gamepad - Wireless - for PC (STRIKE NX Gamepad -Product Name: Wireless - for PS3) SL-650100-BK-01 Model No.(EUT): Add Model No.: SL-440401-BK-01 Trade Mark: Speedlink FCC ID: 2AEDNA36 Standards: 47 CFR Part 15, Subpart C (2015) Date of Receipt: 2016-09-18 Date of Test: 2016-09-22 to 2016-10-20 Date of Issue: 2016-10-24 **Test Result:** PASS *

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

Authorized Signature:



Jack Zhang EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Version

Revision Record							
Version	Chapter	Date	Modifier	Remark			
00		2016-10-24		Original			

Authorized for issue by:		
Tested By	feter Gene	2016-10-20
	(Peter Geng) /Project Engineer	Date
Checked By	Eric Fu (Eric Fu) /Reviewer	2016-10-24

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3 Test Summary

Test Item	Test Item Test Requirement Test met		Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203	ANSI C63.10 (2009)	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 (2013)	PASS
Field Strength of the Fundamental Signal	47 CFR Part 15, Subpart C Section 15.249 (a)	ANSI C63.10 (2013)	PASS
Spurious Emissions	47 CFR Part 15, Subpart C Section 15.249 (a)/15.209	ANSI C63.10 (2013)	PASS
Restricted bands around fundamental frequency (Radiated Emission)	ad fundamental ency (Radiated47 CFR Part 15, Subpart C Section 15.249(a)/15.205		PASS
20dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.215 (c)	ANSI C63.10 (2013)	PASS

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5 General Information

5.1 Client Information

Applicant:	Winspeed Co., Ltd.
Address of Applicant:	14F-1, No.2, Jian-Ba Rd., Chung-Ho District, New Taipei City, Taiwan
Manufacturer:	Winspeed Co., Ltd.
Address of Manufacturer:	14 F-1, No.2, Jian-Ba Rd., Chung-Ho District, New Taipei City, Taiwan
Factory:	Winspeed Co., Ltd.
Address of Factory:	14 F-1, No.2, Jian-Ba Rd., Chung-Ho District, New Taipei City, Taiwan

5.2 General Description of EUT

Product Name:	STRIKE NX Gamepad - Wireless - for PC (STRIKE NX Gamepad - Wireless - for PS3)
Model No.:	SL-650100-BK-01 (for Remote)
Trade Mark:	Speedlink
Frequency Range:	2412-2475MHz
Modulation Type:	GFSK
Number of Channels:	64
Channel separation	1MHz
Antenna Type:	Integral
Antenna Gain:	0dBi
Power Supply:	DC 3.7V,400mAh
Test Voltage:	DC 3.7V, Charged from USB port by AC 120V/60Hz
Cable:	USB charge cable: 43cm, unshielded

Remark:

Model No.: SL-650100-BK-01, SL-440401-BK-01

Only the model SL-650100-BK-01 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for all above models, only different on model number and packaging.



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Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	17	2428MHz	33	2444MHz	49	2460MHz
2	2413MHz	18	2429MHz	34	2445MHz	50	2461MHz
3	2414MHz	19	2430MHz	35	2446MHz	51	2462MHz
4	2415MHz	20	2431MHz	36	2447MHz	52	2463MHz
5	2416MHz	21	2432MHz	37	2448MHz	53	2464MHz
6	2417MHz	22	2433MHz	38	2449MHz	54	2465MHz
7	2418MHz	23	2434MHz	39	2450MHz	55	2466MHz
8	2419MHz	24	2435MHz	40	2451MHz	56	2467MHz
9	2420MHz	25	2436MHz	41	2452MHz	57	2468MHz
10	2421MHz	26	2437MHz	42	2453MHz	58	2469MHz
11	2422MHz	27	2438MHz	43	2454MHz	59	2470MHz
12	2423MHz	28	2439MHz	44	2455MHz	60	2471MHz
13	2424MHz	29	2440MHz	45	2456MHz	61	2472MHz
14	2425MHz	30	2441MHz	46	2457MHz	62	2473MHz
15	2426MHz	31	2442MHz	47	2458MHz	63	2474MHz
16	2427MHz	32	2443MHz	48	2459MHz	64	2475MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel(CH1)	2412MHz
The Middle channel(CH29)	2440MHz
The Highest channel(CH64)	2475MHz

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5.3 Test Environment and Mode

Operating Environment:	Operating Environment:					
Temperature:	25.0 °C					
Humidity:	52 % RH					
Atmospheric Pressure:	1005 mbar					
Test mode:						
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.					

5.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.
Adapter	Apple	A1357 W010A051

5.5 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, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594 No tests were sub-contracted.



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5.6 Test Facility

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

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

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

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.



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5.10 Equipment List

	Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)	
1	Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2016-05-13	2017-05-13	
2	LISN	Rohde & Schwarz	ENV216	SEM007-01	2016-10-09	2017-10-09	
3	LISN	ETS-LINDGREN	3816/2	SEM007-02	2016-04-25	2017-04-25	
4	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T8-02	EMC0120	2016-09-28	2017-09-28	
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T4-02	EMC0121	2016-09-28	2017-09-28	
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T2-02	EMC0122	2016-09-28	2017-09-28	
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2016-04-25	2017-04-25	
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2016-10-09	2017-10-09	

RF connected test							
Item	Test Equipment	est Equipment Manufacturer Model No. Inventory No		Mapufaaturar Madal	Inventory No.	Cal. date	Cal.Due date
		Manalaotarei	model no.	inventory No.	(yyyy-mm-dd)	(yyyy-mm-dd)	
1	DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2016-10-09	2017-10-09	
2	Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2016-10-09	2017-10-09	
3	Signal Generator	Rohde & Schwarz	SML03	SEM006-02	2016-04-25	2017-04-25	
4	Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2016-10-09	2017-10-09	

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RE in Chamber							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)	
1	10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2016-05-13	2017-05-13	
2	EMI Test Receiver (9k-3GHz)	Rohde & Schwarz	ESCI	SEM004-01	2016-04-25	2017-04-25	
3	Trilog-Broadband Antenna(30M-1GHz)	Schwarzbeck	VULB9168	SEM003-18	2016-06-29	2019-06-29	
4	Pre-amplifier	Sonoma Instrument Co	310N	SEM005-03	2016-07-06	2017-07-06	
5	Loop Antenna	ETS-Lindgren	6502	SEM003-08	2015-08-14	2018-08-14	

RE in Chamber							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)	
1	3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2016-05-13	2017-05-13	
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEM004-04	2016-04-25	2017-04-25	
3	BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2014-11-15	2017-11-15	
4	Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2016-10-09	2017-10-09	
5	Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-14	
6	Horn Antenna (18-26GHz)	ETS-Lindgren	3160	SEM003-12	2014-11-24	2017-11-24	
7	Horn Antenna(26GHz- 40GHz)	A.H.Systems, inc.	SAS-573	SEM003-13	2015-02-12	2018-02-12	
8	Low Noise Amplifier	Black Diamond Series	BDLNA- 0118- 352810	SEM005-05	2016-10-09	2017-10-09	
9	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A	

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6 Test results and Measurement Data

6.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203

15.203 requirement:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:



The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.

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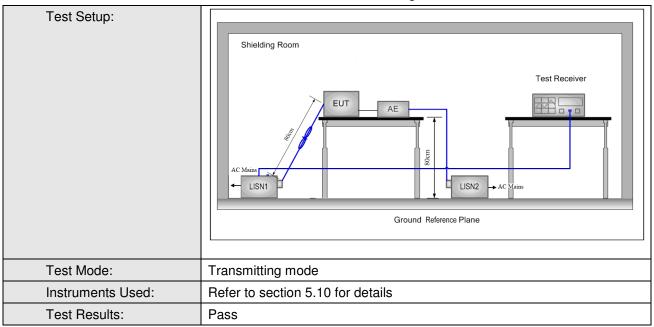
6.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207						
Test Method:	ANSI C63.10: 2013						
Test Frequency Range:	150kHz to 30MHz						
Limit:		lBuV)					
	Frequency range (MHz)	Quasi-peak	Average				
	0.15-0.5 66 to 56* 56 to 46*						
	0.5-5	56	46				
	5-30	60	50				
	* Decreases with the logarithn						
Test Procedure:	 The mains terminal disturb shielded room. The EUT was connected to Impedance Stabilization Netwon linear impedance. The power connected to a second LIS reference plane in the same measured. A multiple sock power cables to a single Line exceeded. The tabletop EUT was place the ground reference plane EUT was placed on the hot The test was performed wite rear of the EUT shall be 0. plane. The vertical ground horizontal ground reference the boundary of the unit un plane for LISNs mounted of distance was between the All other units of the EUT a m from the LISN 2. In order to find the maximule equipment and all of the in to ANSI C63.10: 2013 on comparison 	b AC power source throwork) which provides a ver cables of all other us SN 2, which was bonder the way as the LISN 1 for the way as the LISN 1 for the way as the LISN 1 for the outlet strip was used ISN provided the rating ced upon a non-metalline. And for floor-standing rizontal ground referent the vertical ground reference plane was be plane. The LISN 1 was not rest and bonded to on top of the ground reference for the LISN 1 was not associated equipm um emission, the relativiterface cables must be	bugh a LISN 1 (Line $50\Omega/50\mu$ H + 5Ω units of the EUT were d to the ground or the unit being d to connect multiple g of the LISN was not c table 0.8m above g arrangement, the nece plane, erence plane. The round reference onded to the as placed 0.8 m from o a ground reference ference plane. This ISN 1 and the EUT. ent was at least 0.8 we positions of a changed according				

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Measurement Data

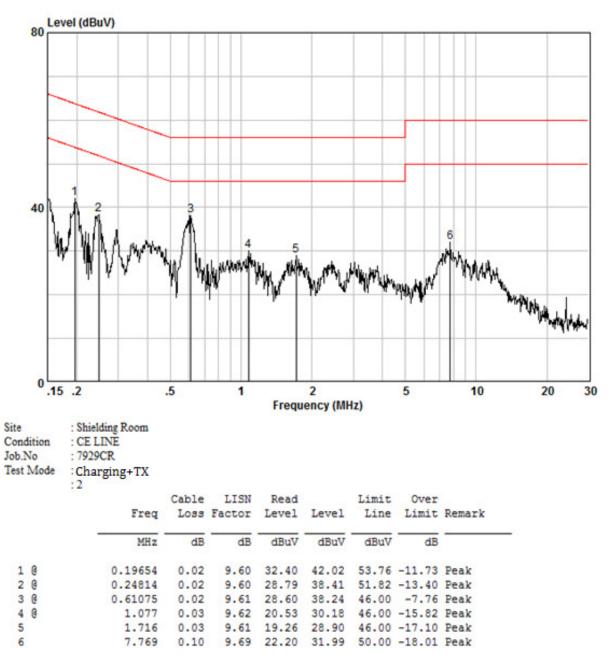
An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



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Live Line:

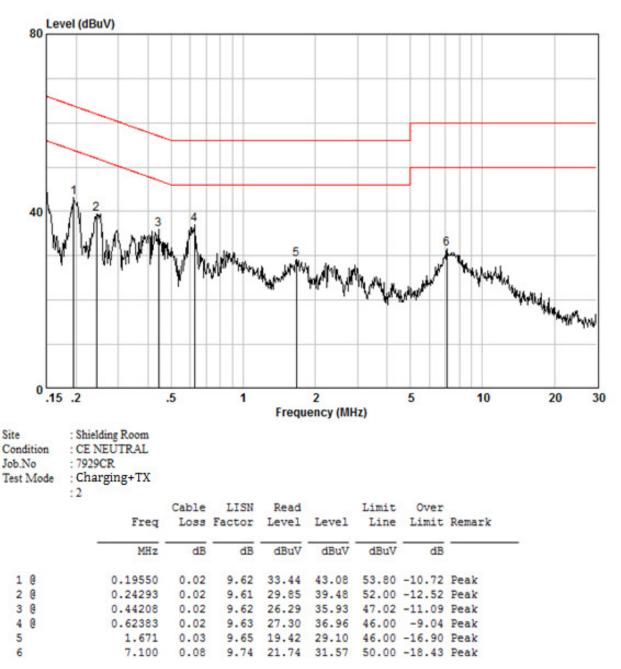


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Neutral Line:



Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

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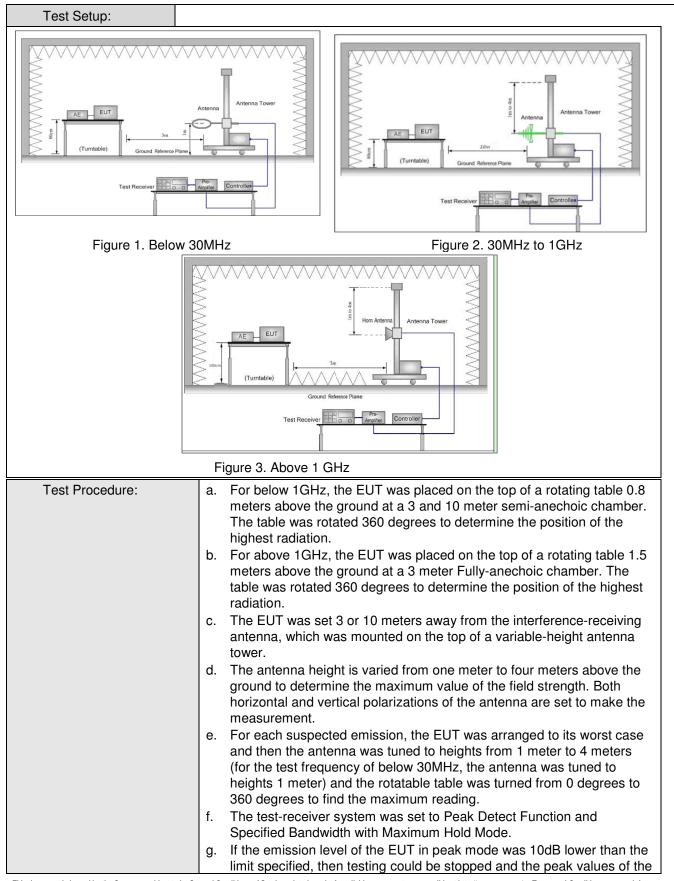
6.3 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.249 and 15.209						
Test Method:	ANSI C63.10: 2013						
Test Site:	Measurement Distance: 3m (Fully-Anechoic Chamber) Measurement Distance: 10m (Semi-Anechoic Chamber)						
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark		
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak		
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average		
	0.090MHz-0.110MHz Quasi-peak		10kHz	30kHz	Quasi-peak		
	0.110MHz-0.490MHz Peak		10kHz	30kHz	Peak		
	0.110MHz-0.490MHz Average		10kHz	30kHz	Average		
	0.490MHz -30MHz Quasi-peak		10kHz	30kHz	Quasi-peak		
	30MHz-1GHz Quasi-peak 1		100 kHz	300kHz	Quasi-peak		
	Above 1011-	Peak	1MHz	3MHz	Peak		
	Above 1GHz	Peak	1MHz	10Hz	Average		
Limit: (Spurious Emissions)	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)		
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300		
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30		
	1.705MHz-30MHz	30	-	-	30		
	30MHz-88MHz	100	40.0	Quasi-peak	3		
	88MHz-216MHz	150	43.5	Quasi-peak	3		
	216MHz-960MHz	200	46.0	Quasi-peak	3		
	960MHz-1GHz	500	54.0 Quasi-peak		3		
	Above 1GHz 500 5		54.0	Average	3		
	Note: 15.35(b), Unless emissions is 20d applicable to the peak emission lev	B above the max equipment under	imum permitest. This p	itted average	emission limit		
	Frequency	Limit (dBu)	Limit (dBuV/m @3m)		ırk		
Limit:	riequency		94.0		-		
Limit: (Field strength of the fundamental signal)	2400MHz-2483.5MH		- /	Average			

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	 EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. h. Test the EUT in the lowest channel,the middle channel,the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Charge+Transmitting mode and Transmitting mode
Final Test Mode:	Pretest the EUT at Charge+Transmitting mode and transmitting mode and found Charge + Transmitting mode is the worst case. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



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Measurement Data

6.3.1 Field Strength Of The Fundamental Signal

Peak value:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2412.149	29.14	5.35	38.15	97.2	93.54	114.00	-20.46	Horizontal
2412.047	29.14	5.35	38.15	89.84	86.18	114.00	-27.82	Vertical
2440.072	29.23	5.38	38.15	96.35	92.81	114.00	-21.19	Horizontal
2440.072	29.23	5.38	38.15	88.12	84.58	114.00	-29.42	Vertical
2475.045	29.33	5.40	38.15	96.36	92.94	114.00	-21.06	Horizontal
2475.045	29.33	5.40	38.15	90.12	86.70	114.00	-27.30	Vertical

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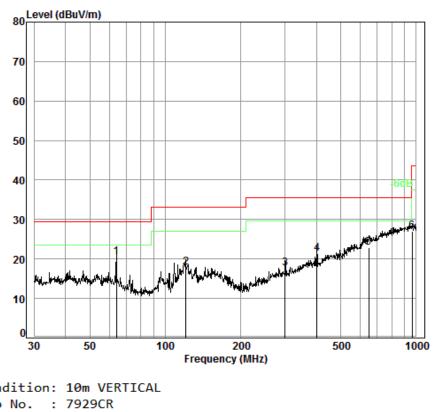


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6.3.2 Spurious Emissions

30MHz~1GHz		
Test mode:	Charge+Transmitting mode	Vertical

QP value:



Condition:	10m	VERTICAL

Job I	lo.	:	7929CR	
Test	Mode	:	Charge	+

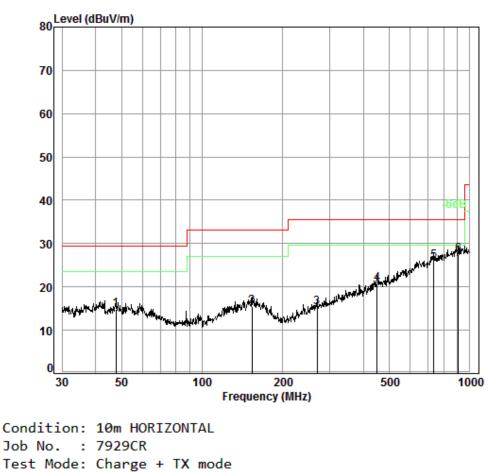
Test M	Aode: Cha	rge +	TX mod	e				
	: Rem	ote						
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	63.98	7.00	11.20	32.93	35.17	20.44	29.50	-9.06
2	120.70	7.30	11.53	32.77	31.84	17.90	33.10	-15.20
3	300.37	8.05	12.67	32.60	29.54	17.66	35.60	-17.94
4	401.84	8.30	14.91	32.60	30.79	21.40	35.60	-14.20
5	647.39	9.02	19.50	32.60	26.99	22.91	35.60	-12.69
6	962.16	9.60	22.77	32.50	27.23	27.10	43.50	-16.40

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Test mode: Charge+Transmitting mode Horizontal			
	Test mode:	Charge+Transmitting mode	Horizontal



: Remote Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Limit Freq Line dBuV dBuV/m dBuV/m MHz dB dB/m dB dB 1 47.66 6.85 12.83 33.00 28.25 14.93 29.50 -14.57 2 153.74 7.47 13.40 32.74 27.45 15.58 33.10 -17.52 3 269.43 7.95 11.83 32.63 28.11 15.26 35.60 -20.34 4 451.14 8.43 16.19 32.60 28.67 20.69 35.60 -14.91 5 734.49 9.20 20.58 32.60 28.79 25.97 35.60 -9.63 906.48 6 pp 9.50 22.31 32.50 28.17 27.48 35.60 -8.12

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Below 1GHz

The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_3 / L_{10} = D_{10} / D_3$

Note:

L₃: Level @ 3m distance. Unit: uV/m;

L₁₀: Level @ 10m distance. Unit: uV/m;

D₃: 3m distance. Unit: m

D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
63.98	20.44	10.52	35.07	30.90	40.00	-9.10	V
120.70	17.90	7.85	26.17	28.36	43.50	-15.14	V
300.37	17.66	7.64	25.46	28.12	46.00	-17.88	V
401.84	21.40	11.75	39.16	31.86	46.00	-14.14	V
647.39	22.91	13.98	46.60	33.37	46.00	-12.63	V
962.16	27.19	22.88	76.27	37.65	54.00	-16.35	V
47.66	14.93	5.58	18.59	25.39	40.00	-14.61	Н
153.74	15.58	6.01	20.04	26.04	43.50	-17.46	Н
269.43	15.28	5.81	19.36	25.74	46.00	-20.26	Н
451.14	20.69	10.83	36.09	31.15	46.00	-14.85	Н
734.49	25.97	19.88	66.28	36.43	46.00	-9.57	Н
906.48	27.48	23.66	78.86	37.94	46.00	-8.06	Н

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Above 1GH	z											
Test mode:		Trans	mitting	Test channel: L			owest	Remark:	Remark:		Peak	
Frequency (MHz)	Fa	enna actor B/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Leve (dBuV	I	Level (dBuV/m)	Limit Line (dBuV/m)	Ov Lin (dE	nit	Polarization	
3589.562	32	2.46	7.66	38.51	44.55	5	46.16	74.00	-27.	84	Vertical	
4824.000	34	4.19	8.90	39.04	47.81		51.86	74.00	-22.	14	Vertical	
5921.940	34	4.65	10.34	39.01	44.40)	50.38	74.00	-23.	62	Vertical	
7236.000	36	5.40	10.69	38.15	46.34	ŀ	55.28	74.00	-18.	72	Vertical	
9648.000	37	7.53	12.52	36.97	39.78	}	52.86	74.00	-21.	14	Vertical	
12173.120	38	3.71	14.42	38.48	38.77	7	53.42	74.00	-20.	58	Horizontal	
3781.495	33	3.01	7.73	38.60	44.98	}	47.12	74.00	-26.	88	Horizontal	
4824.000	34	4.19	8.90	39.04	49.80)	53.85	74.00	-20.	15	Horizontal	
5879.252	34	4.63	10.22	39.01	43.21		49.05	74.00	-24.	95	Horizontal	
7236.000	36	6.40	10.69	38.15	44.01		52.95	74.00	-21.	05	Horizontal	

Test mode:	Trans	mitting	Test char	Test channel: Lowe		owest	est Remark: Avera		erage	
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV	I	Level (dBuV/m)	Limit Line (dBuV/m)	Ove Lin (dE	nit	Polarization
7236.000	36.40	10.69	38.15	41.64	ł	50.58	54.00	-3.4	12	Vertical



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Test mode:	Trans	mitting	Test char	nnel:	Mi	ddle	Remark:		Pea	ak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV		Level (dBuV/m)	Limit Line (dBuV/m)	Ove Lim (dE	nit	Polarization
3579.190	32.43	7.66	38.51	43.76	6	45.34	74.00	-28.	66	Vertical
4880.000	34.29	8.97	39.06	48.17	,	52.37	74.00	-21.	63	Vertical
6043.124	34.74	10.50	38.97	44.17	,	50.44	74.00	-23.	56	Vertical
7320.000	36.37	10.72	38.07	46.76	5	55.78	74.00	-18.	22	Vertical
9760.000	37.55	12.58	36.92	39.67	7	52.88	74.00	-21.	12	Vertical
12190.740	38.72	14.40	38.50	39.29)	53.91	74.00	-20.	09	Horizontal
3915.118	33.38	7.78	38.66	44.03	}	46.53	74.00	-27.	47	Horizontal
4880.000	34.29	8.97	39.06	50.37	,	54.57	74.00	-19.	43	Horizontal
6078.201	34.76	10.46	38.95	43.84	-	50.11	74.00	-23.	89	Horizontal
7320.000	36.37	10.72	38.07	41.89)	50.91	74.00	-23.	09	Horizontal

Test mode:	est mode: Transmitting		Test channel:		Middle		Remark:		Average	
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Leve (dBuV	I	Level (dBuV/m)	Limit Line (dBuV/m)	Ove Lim (dE	nit	Polarization
7320.000	36.37	10.72	38.07	42.11		51.13	54.00	-2.8	37	Vertical
4880.000	34.29	8.97	39.06	47.66	5	51.86	54.00	-2.1	4	Horizontal



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Test mode:	Trans	mitting	Test char	nnel:	Hi	ghest	Remark:		Pea	ak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV		Level (dBuV/m)	Limit Line (dBuV/m)	Ove Lim (dE	nit	Polarization
3786.970	33.03	7.74	38.60	44.57	,	46.74	74.00	-27.	26	Vertical
4950.000	34.41	9.07	39.08	49.31		53.71	74.00	-20.	29	Vertical
6302.093	34.95	10.17	38.81	44.58	}	50.89	74.00	-23.	11	Vertical
7425.000	36.33	10.76	37.96	45.74	ŀ	54.87	74.00	-19.	13	Vertical
9900.000	37.58	12.66	36.85	39.24	ŀ	52.63	74.00	-21.	37	Vertical
12279.260	38.77	14.33	38.59	38.72	2	53.23	74.00	-20.	77	Horizontal
3786.970	33.03	7.74	38.60	44.54	ŀ	46.71	74.00	-27.	29	Horizontal
4950.000	34.41	9.07	39.08	50.51		54.91	74.00	-19.	09	Horizontal
6140.076	34.82	10.38	38.91	43.19)	49.48	74.00	-24.	52	Horizontal
7421.518	36.33	10.76	37.96	43.15	5	52.28	74.00	-21.	72	Horizontal

Test mode:	Trans	smitting	Test channel: Highest Remark: Avera		erage					
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Leve (dBuV	I	Level (dBuV/m)	Limit Line (dBuV/m)	Ove Lin (dE	nit	Polarization
7425.000	36.33	10.76	37.96	42.39)	51.52	54.00	-2.4	18	Vertical
4950.000	34.41	9.07	39.08	47.89)	52.29	54.00	-1.7	71	Horizontal

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

- 2) Scan from 9kHz to 25GHz, The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the above measurement data were shown in the report.



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6.4 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205									
Test Method:	ANSI C63.10: 2013									
Test Site:	Measurement Distance: 3m	(Fully-Anechoic Chamber)							
Limit(band edge):	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.									
	Frequency	Limit (dBuV/m @3m)	Remark							
	30MHz-88MHz 40.0 Quasi-peak Value									
	88MHz-216MHz	43.5	Quasi-peak Value							
	216MHz-960MHz	46.0	Quasi-peak Value							
	960MHz-1GHz	54.0	Quasi-peak Value							
	Above 1GHz	54.0	Average Value							
	Above TGHZ	74.0	Peak Value							
Test Setup:										
AE EUT (Turntable) Test Receiver	Antenna Tower	AE _ EUT	Interna Tower							
Figure 1. 30MHz	to 1GHz	Figure 2. Above	1 GH7							

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Test Procedure:	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
	b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter Fully-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel
	h. Test the EUT in the lowest channel, the Highest channel
	i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case.
	j. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting mode and Charge+ Transmitting mode
Final Test Mode:	Pretest the EUT at Transmitting mode and Charge + Tranmitting mode found Transmitting mode is the worst case Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	
	Pass

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est plot as fo										
est mode:	Transm	itting	Test	channe	el: Lo	owest	Rer	mark:	Peak	Vertical
Level (d	(Dulling)									
120 Level (d	ibuv/ilij					-				1
110		-				-	_			
90							_		-	
									Â	
							-	-		
70										
50			-				-			
mer	monten	mennen	mantenals	montened	estational si	wheneme		man	a an	
30							_			
10										
2310		2	350						242	0
				Freque	ncy (MHz)					
Condition:		al								
	7929CR									
	2412 Band Remote	a eage								
	Cable		Preamp	Read		Limit	Over			
F	req Loss	Factor	Factor	Level	Level	Line	Limit	Remark		
	MHz dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			
1 2400.	000 5.34	29.11	38.14	45.39	41.70	74.00	-32.30			
2 pp 2412.	047 5 35		38.15							

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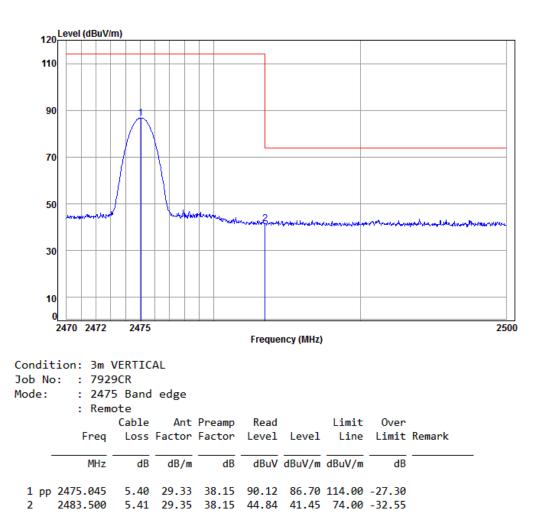
Test mod	le: T	ransmit	ting	Test c	hannel	: Lov	vest	Rema	ark:	Peak	Horizontal
420	Level (dBu	V/m)									
120											1
110							-				
										2	
90									_	- Ã	
				-	-	-		_	_		
70											
50				-						MA	
	manne	-	warm	harmon	menan	mannon	- Come	-	alan		
30						-					
10											
0	2310		2	350						242	20
					Freque	ncy (MHz)					
Condit	ion: 3m	Horizo	ntal								
Job No											
Mode:	: 24 : Re	12 Band	edge								
	: Ne	Cable	Ant	Preamp	Read		Limit	Over			
	Free	Loss		Factor	Level	Level	Line	Limit	Remar	k	
8	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			
1	2400.000	5.34	29.11	38.14	45.02	41.33	74.00	-32.67			
	2412.149			38.15							

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Test mode:	Transmitting	Test channel:	Highest	Remark:	Peak	Vertical

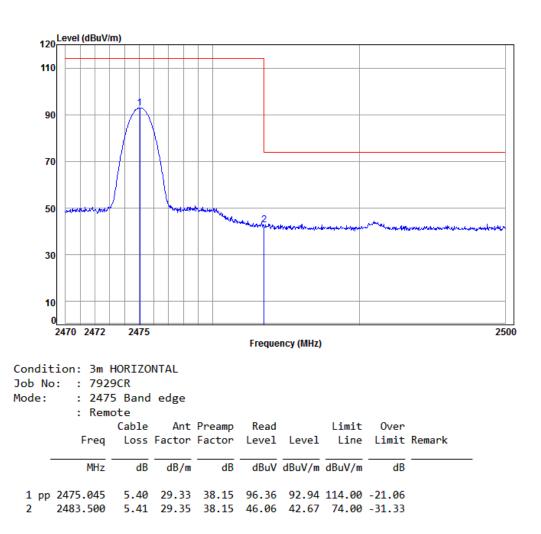


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Test mode:	Transmitting	Test channel:	Highest	Remark:	Peak	Horizontal



Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation

with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

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6.5 20dB Bandwidth

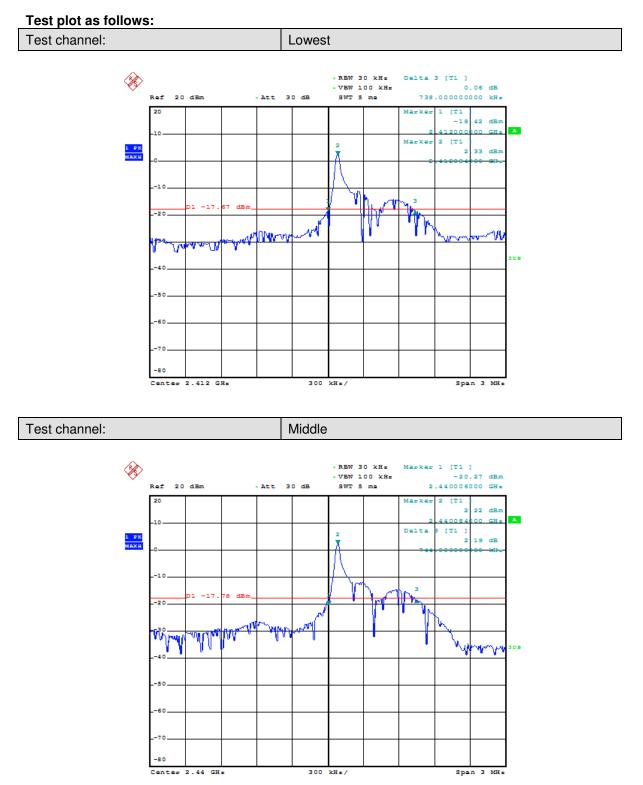
Test Requirement:	47 CFR Part 15C Section 15.215		
Test Method:	ANSI C63.10:2013		
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table		
	Ground Reference Plane		
Limit:	N/A		
Exploratory Test Mode:	Transmitter mode		
Final Test Mode:	Transmitter mode		
Instruments Used:	Refer to section 5.10 for details		
Test Results:	Pass		

Measurement Data

Test Channel	20dB bandwidth (MHz)	Results
Lowest	0.738	Pass
Middle	0.744	Pass
Highest	0.778	Pass



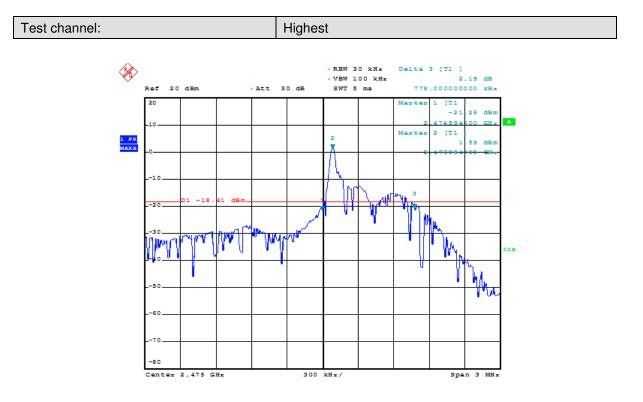
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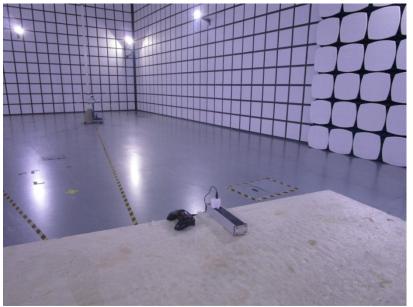
7 Photographs - EUT Test Setup

Test model No.: SL-650100-BK-01 (for Remote)

7.1 Conducted Emission



7.2 Radiated Emission

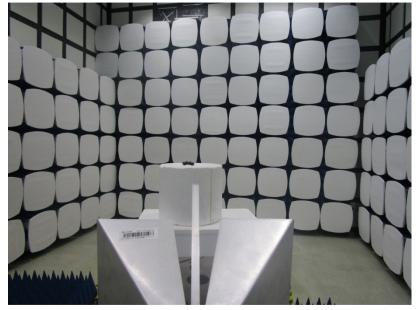


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7.3 Radiated Spurious Emission



8 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1609007929CR.

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