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## TEST REPORT

 Application No.:
 SHEM1805003473CR

 FCC ID:
 2ADTD-NW10050

 IC:
 20199-NW10050

Applicant: Hangzhou Hikvision Digital Technology Co., Ltd.

Address of Applicant: No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China

Manufacturer: Hangzhou Hikvision Digital Technology Co., Ltd.

Address of Manufacturer: No. 555, Qianmo Road, Binjiang District, Hangzhou City, Zhejiang

Province, China

Factory: 1. Hangzhou Hikvision Technology Co., Ltd.

2. Hangzhou Hikvision Electronics Co., Ltd.

3, Hangzhou Hikvision Digital Technology Co., Ltd.

Address of Factory: 1. No.700, Dongliu Road, Binjiang District, Hangzhou City, Zhejiang,

310052, China

2. No.299, Qiushi Road, Tonglu Economic Development Zone, Tonglu

County, Hangzhou, Zhejiang, 310052, China.

3, No. 555 Qianmo Road, Binjiang District, Hangzhou 310052, China

**Equipment Under Test (EUT):** 

**EUT Name:** Network Video Recorder

Model No.: DS-7108NI-K1/W/M, NVR-108MH-D/W, DS-7104NI-K1/W/M, NVR-104MH-

D/W, HWN-2104MH-W, HWN-2108MH-W, DS-7ABCD-XYZW¤

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Trade mark: HIKVISION

Standard(s): 47 CFR Part 15, Subpart C 15.247

RSS-247 Issue 2, February 2017 RSS-Gen Issue 5, April 2018

**Date of Receipt:** 2018-05-07

**Date of Test:** 2018-05-10 to 2018-05-18

**Date of Issue:** 2018-05-20

Test Result: Pass\*

<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



Parlam Zhan E&E Section 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.

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Revision Record							
Version Description Date Remark							
00	Original	2018-05-20	1				

Authorized for issue by:		
	Vincent Zhu	
	Vincent Zhu / Project Engineer	
	Darlam Zhan	
	Parlam Zhan / Reviewer	



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## 2 Test Summary

Radio Spectrum Technical Requirement						
Item	Standard	Method	Requirement	Result		
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	Pass		

Radio Spectrum Matter Part								
Item	Standard	Method	Requirement	Result				
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass				
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass				
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass				
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass				
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass				
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass				
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass				
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.4	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass				
99% Bandwidth	RSS-247 Issue 2, February 2017	ANSI C63.10 Section 6.9.3	RSS-Gen Section 6.6	Pass				

#### **Declaration of EUT Family Grouping:**

Note1: There are series models mentioned in this report, and they are the identical in electrical and electronic characters. Only the model DS-7108NI-K1/W/M, NVR-108MH-D/W was tested since their differences were the model number, trade name and appearance.

Note2: Only one mode was shown as the test setup photos since all modes were same for the test setup.



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## 4 General Information

#### 4.1 Details of E.U.T.

Power supply: DC 12V by Adapter

Adapter 1:

Model:MSA-C2000IC12.0-24P-DE Input:100-240V ~50/60Hz 0.7A max.

Output:DC 12V-2A

Adapter 2:

Model:ADS-26FSG-12 12024EPG Input:100-240V ~50/60Hz 0.7A max.

Output:DC 12V-2A

Test voltage: AC 120V 60Hz

Cable: DC Cable 150cm for Adapter1/2

Antenna Gain 4 dBi

Antenna Type Dipole Antenna

Channel Spacing 5MHz

Modulation Type 802.11b: DSSS (CCK, DQPSK, DBPSK)

802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)

802.11n(HT20 and HT40): OFDM(64QAM, 16QAM, QPSK, BPSK)

Number of Channels 802.11b/g/n(HT20):11

802.11n(HT40):7

Operation Frequency 802.11b/g/n(HT20): 2412MHz to 2462MHz

802.11n(HT40): 2422MHz to 2452MHz

Data Rate 802.11b: 1/2/5.5/11Mbps,

802.11g: 6/9/12/18/24/36/48/54Mbps 802.11n: MCS0~MCS7(2Tx2R MIMO)

#### 4.2 Description of Support Units

Description	Description Manufacturer		Serial No.
Laptop	Lenovo	ThinkPad X100e	/
SecureCRT	VanDyke	V 6.2.0	/
Serial port adapter plate	/	Test Plate 3	/



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## 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.25 x 10-8
2	Timeout	2s
3	Duty cycle	0.37%
4	Occupied Bandwidth	3%
5	RF conducted power	0.75dB
6	RF power density	2.84dB
7	Conducted Spurious emissions	0.75dB
0	DE Dadiated naver	4.5dB (Below 1GHz)
8	RF Radiated power	4.8dB (Above 1GHz)
		4.2dB (Below 30MHz)
9	Padiated Sourious emission test	4.4dB (30MHz-1GHz)
9	Radiated Spurious emission test	4.6dB (1GHz-18GHz)
		5.2dB (Above 18GHz)
10	Temperature test	1°C
11	Humidity test	3%
12	Supply voltages	1.5%
13	Time	3%

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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#### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

#### 4.5 Test Facility

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

#### CNAS (No. CNAS L0599)

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. 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.

#### • NVLAP (Certificate No. 201034-0)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the National Voluntary Laboratory Accreditation Program(NVLAP). Certificate No. 201034-0.

#### • FCC -Designation Number: CN5033

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

Designation Number: CN5033. Test Firm Registration Number: 479755.

#### • Industry Canada (IC) - IC Assigned Code: 8617A

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A-1.

#### VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3868,C-4336,T-12221,G-10830 respectively.

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



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## 5 Equipment List

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Conducted Emission at AC		Model No	inventory No	Oai Date	Cai Due Date
EMI test receiver	R&S	ESR7	SHEM162-1	2017-12-20	2018-12-19
LISN	Schwarzbeck	NSLK8127	SHEM061-1	2017-12-20	2018-12-19
LISN	EMCO	3816/2	SHEM019-1	2017-12-20	2018-12-19
Pulse limiter	R&S	ESH3-Z2	SHEM029-1	2017-12-20	2018-12-19
CE test Cable	/	CE01	/	2017-12-26	2018-12-25
Conducted Test	Dag	EOD 00	OUEMOOD 4	0047.40.00	0040 40 40
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2017-12-20	2018-12-19
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2017-09-26	2018-09-25
Power meter	R&S	NRP	SHEM057-1	2017-12-26	2018-12-25
Power Sensor	R&S	NRP-Z22	SHEM136-1	2017-07-22	2018-07-21
Power Sensor	R&S	NRP-Z91	SHEM057-2	2017-12-26	2018-12-25
Signal Generator	R&S	SMR40	SHEM058-1	2017-07-03	2018-07-02
Signal Generator	Agilent	N5182A	SHEM182-1	2017-09-26	2018-09-25
Communication Tester	R&S	CMW270	SHEM183-1	2017-10-22	2018-10-21
Switcher	Tonscend	JS0806	SHEM184-1	2017-09-26	2018-09-25
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2017-09-26	2018-09-25
AC Power Stabilizer	WOCEN	6100	SHEM045-1	2017-12-26	2018-12-25
DC Power Supply	QJE	QJ30003SII	SHEM046-1	2017-12-26	2018-12-25
Conducted test Cable	/	RF01, RF 02	/	2017-12-26	2018-12-25
Radiated Test					
EMI test receiver	R&S	ESU40	SHEM051-1	2017-12-20	2018-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2017-12-20	2018-12-19
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2017-04-10	2020-04-09
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2017-02-28	2020-02-27
Antenna (25MHz-3GHz)	Schwarzbeck	HL562	SHEM010-1	2017-02-28	2020-02-27
Horn Antenna (1-8GHz)	Schwarzbeck	HF906	SHEM009-1	2017-10-24	2020-10-23
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2017-01-14	2020-01-13
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2017-12-03	2020-12-02
Pre-amplifier (9KHz-2GHz)	LAVIIO	LNA-0001-412010	SHEM164-1	2017-08-22	2018-08-21
Pre-amplifier (1-18GHz)	CLAVIIO	BDLNA-0118-352810	SHEM050-2	2017-08-22	2018-08-21
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2017-12-20	2018-12-19
Band filter	LORCH	9BRX-875/X150-SR	SHEM156-1	/	/
Band filter	LORCH	13BRX-1950/X500-SR	SHEM083-2	/	/
Band filter	LORCH	5BRX-2400/X200-SR	SHEM155-1	/	/
Band filter	LORCH	5BRX-5500/X1000-SR	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G-100SS	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700-3SS	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2017-07-22	2020-07-21
RE test Cable	/	RE01, RE02, RE06	/	2017-12-26	2018-12-25



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## 6 Radio Spectrum Technical Requirement

## 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(c)

#### 6.1.2 Conclusion

#### Standard Requirement:

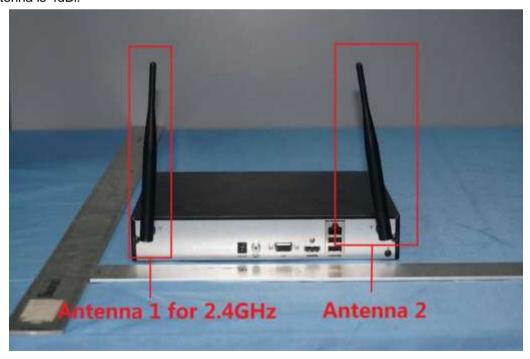
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### 15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### **EUT Antenna:**

The antenna is dipole antenna and no consideration of replacement. The best case gain of the antenna is 4dBi.





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## 7 Radio Spectrum Matter Test Results

## 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207
Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

	Conducted limit(dBµV)			
Frequency of emission(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 logarithm of the frequency.				

#### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Test mode a:Engineering Mode 1\_Using test software to control EUT working in continuous

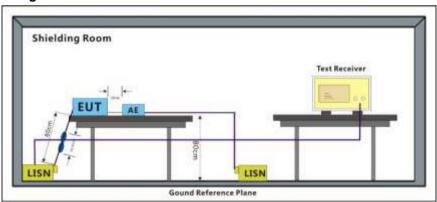
transmitting, and select channel and modulation type.(DS-7108NI-K1/W/M by

Adapter 1)

a:Engineering Mode 1\_Using test software to control EUT working in continuous transmitting, and select channel and modulation type.(DS-7108NI-K1/W/M by

Adapter 2)

### 7.1.2 Test Setup Diagram





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#### 7.1.3 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a  $50 \text{ohm}/50 \mu\text{H} + 5 \text{ohm}$  linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

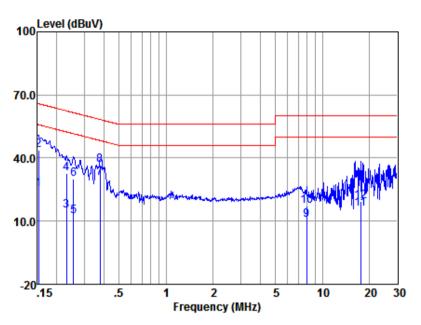
Remark: LISN=Read Level+ Cable Loss+ LISN Factor



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Mode:a; Line:Live Line



LISN : LINE EUT/Project No : 3469CR

Test Mode : a

	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.15	15.22	0.11	9.81	25.14	55.87	-30.73	Average
2	0.15 0.23	33.92 5.18	0.11 0.11	9.81 9.81	43.84 15.10	65.87 52.44	-22.03 -37.34	QP Average
4	0.23	22.71	0.11	9.81	32.63	62.44	-29.81	QP
5	0.26	2.44	0.11	9.81	12.36	51.56	-39.20	Average
6	0.26	19.99	0.11	9.81	29.91	61.56	-31.65	QP
7	0.38	20.38	0.11	9.81	30.30	48.30	-18.00	Average
8	0.38	26.78	0.11	9.81	36.70	58.30	-21.60	QΡ
9	7.94	0.58	0.10	9.86	10.54	50.00	-39.46	Average
10	7.94	7.14	0.10	9.86	17.10	60.00	-42.90	QP
11	17.66	5.56	0.17	10.03	15.76	50.00	-34.24	Average
12	17.66	9.25	0.17	10.03	19.45	60.00	-40.55	QP

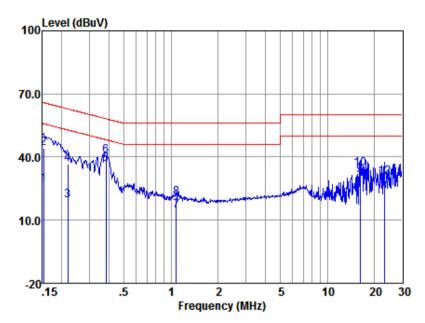
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Mode:a; Line:Neutral Line



LISN : NEUTRAL EUT/Project No : 3469CR

Test Mode : a

	Freq	Read	LISN	Cable	Emission		0ver	
		level	Factor	Loss	Level	Limit	Limit	Remark
	(MHz)	(dBuV)	(dB)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.15	16.84	0.12	9.81	26.77	55.87	-29.10	Average
2	0.15	34.13	0.12	9.81	44.06	65.87	-21.81	QP
3	0.22	9.70	0.11	9.81	19.62	52.88	-33.26	Average
4	0.22	26.61	0.11	9.81	36.53	62.88	-26.35	QP
5	0.38	26.72	0.11	9.81	36.64	48.21	-11.57	Average
6	0.38	30.71	0.11	9.81	40.63	58.21	-17.58	QP
7	1.08	4.63	0.11	9.84	14.58	46.00	-31.42	Average
8	1.08	10.98	0.11	9.84	20.93	56.00	-35.07	QP
9	16.23	21.24	0.18	10.02	31.44	50.00	-18.56	Average
10	16.23	24.35	0.18	10.02	34.55	60.00	-25.45	QP
11	23.14	13.02	0.21	10.04	23.27	50.00	-26.73	Average
12	23.14	20.45	0.21	10.04	30.70	60.00	-29.30	QP

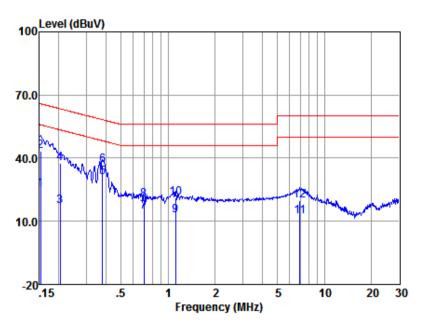
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Mode:b; Line:Live Line



LISN : LINE EUT/Project No : 3469CR

Test Mode : b

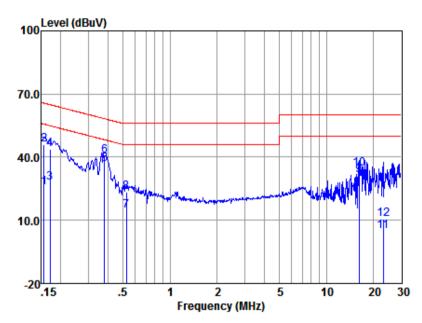
	Freq	Read	LISN	Cable	Emission	ı	0ver	
		level	Factor	Loss	Level	Limit	Limit	Remark
	(MHz)	(dBuV)	(dB)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.15	15.34	0.11	9.81	25.26	55.87	-30.61	Average
2	0.15	33.47	0.11	9.81	43.39	65.87	-22.48	QΡ
3	0.20	7.30	0.11	9.81	17.22	53.45	-36.23	Average
4	0.20	27.51	0.11	9.81	37.43	63.45	-26.02	QP
5	0.38	21.07	0.11	9.81	30.99	48.25	-17.26	Average
6	0.38	26.83	0.11	9.81	36.75	58.25	-21.50	QP
7	0.70	4.51	0.11	9.83	14.45	46.00	-31.55	Average
8	0.70	10.48	0.11	9.83	20.42	56.00	-35.58	QP
9	1.12	2.83	0.11	9.84	12.78	46.00	-33.22	Average
10	1.12	11.06	0.11	9.84	21.01	56.00	-34.99	QP
11	6.95	2.25	0.11	9.86	12.22	50.00	-37.78	Average
12	6.95	9.85	0.11	9.86	19.82	60.00	-40.18	QP



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Mode:b; Line:Neutral Line



LISN : NEUTRAL EUT/Project No: 3469CR

Test Mode : b

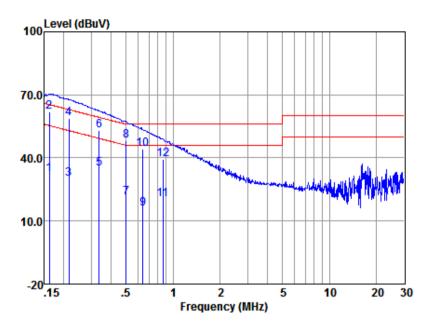
	Freq	Read	LISN	Cable	Emission		0ver	
		level	Factor	Loss	Level	Limit	Limit	Remark
	(MHz)	(dBuV)	(dB)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.16	15.52	0.12	9.81	25.45	55.65	-30.20	Average
2	0.16	35.98	0.12	9.81	45.91	65.65	-19.74	QP
3	0.17	17.71	0.12	9.81	27.64	54.94	-27.30	Average
4	0.17	33.80	0.12	9.81	43.73	64.94	-21.21	QP
5	0.38	26.86	0.11	9.81	36.78	48.25	-11.47	Average
6	0.38	30.82	0.11	9.81	40.74	58.25	-17.51	QP
7	0.53	4.76	0.11	9.82	14.69	46.00	-31.31	Average
8	0.53	13.27	0.11	9.82	23.20	56.00	-32.80	QP
9	16.23	21.20	0.18	10.02	31.40	50.00	-18.60	Average
10	16.23	24.36	0.18	10.02	34.56	60.00	-25.44	QP
11	23.14	-5.37	0.21	10.04	4.88	50.00	-45.12	Average
12	23.14	0.11	0.21	10.04	10.36	60.00	-49.64	QP
								-



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Mode:c; Line:Live Line



LISN : LINE EUT/Project No : 3469CR

Test Mode : c

	Freq	Read level	LISN Factor	Cable Loss	Emission Level	l Limit	Over Limit	Remark
	(MHz)	(dBuV)	(dB)	(dB)	(dBuV)	(dBuV)	(dB)	Kellar K
1	0.16	22.33	0.11	9.81	32.25	55.38	-23.13	Average
2	0.16	51.82	0.11	9.81	61.74	65.38	-3.64	QP
3	0.22	20.22	0.11	9.81	30.14	53.01	-22.87	Average
4	0.22	48.90	0.11	9.81	58.82	63.01	-4.19	QP
5	0.34	25.14	0.11	9.81	35.06	49.31	-14.25	Average
6	0.34	43.27	0.11	9.81	53.19	59.31	-6.12	QP
7	0.50	11.27	0.11	9.82	21.20	46.00	-24.80	Average
8	0.50	38.04	0.11	9.82	47.97	56.00	-8.03	QP
9	0.64	5.97	0.11	9.82	15.90	46.00	-30.10	Average
10	0.64	34.28	0.11	9.82	44.21	56.00	-11.79	QP
11	0.86	10.17	0.11	9.83	20.11	46.00	-25.89	Average
12	0.86	29.30	0.11	9.83	39.24	56.00	-16.76	QP

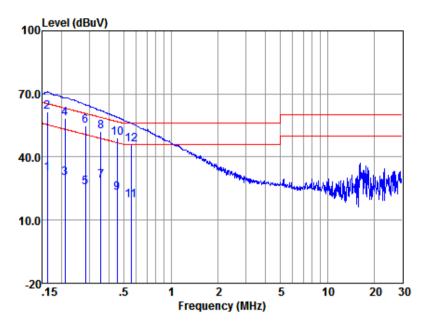
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Mode:c; Line:Neutral Line



LISN : NEUTRAL EUT/Project No : 3469CR

Test Mode : c

	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.16	22.32	0.12	9.81	32.25	55.38	-23.13	Average
2	0.16	51.46	0.12	9.81	61.39	65.38	-3.99	QΡ
3	0.21	20.05	0.12	9.81	29.98	53.23	-23.25	Average
4	0.21	48.61	0.12	9.81	58.54	63.23	-4.69	QP
5	0.28	15.57	0.11	9.81	25.49	50.72	-25.23	Average
6	0.28	45.03	0.11	9.81	54.95	60.72	-5.77	QP
7	0.36	18.68	0.11	9.81	28.60	48.83	-20.23	Average
8	0.36	42.16	0.11	9.81	52.08	58.83	-6.75	QP
9	0.45	12.86	0.11	9.82	22.79	46.85	-24.06	Average
10	0.45	39.22	0.11	9.82	49.15	56.85	-7.70	QP
11	0.56	9.66	0.11	9.82	19.59	46.00	-26.41	Average
12	0.56	35.90	0.11	9.82	45.83	56.00	-10.17	QP

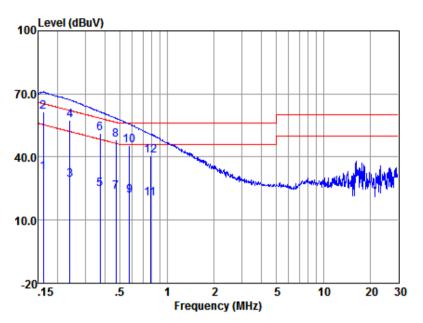
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Mode:d; Line:Live Line



LISN : LINE EUT/Project No : 3469CR

Test Mode : d

	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.16	22.61	0.11	9.81	32.53	55.38	-22.85	Average
2	0.16	51.68	0.11	9.81	61.60	65.38	-3.78	QP
3	0.24	19.18	0.11	9.81	29.10	52.13	-23.03	Average
4	0.24	47.57	0.11	9.81	57.49	62.13	-4.64	QP
5	0.37	14.96	0.11	9.81	24.88	48.43	-23.55	Average
6	0.37	41.57	0.11	9.81	51.49	58.43	-6.94	QP
7	0.47	13.64	0.11	9.82	23.57	46.49	-22.92	Average
8	0.47	38.19	0.11	9.82	48.12	56.49	-8.37	QP
9	0.58	11.78	0.11	9.82	21.71	46.00	-24.29	Average
10	0.58	35.66	0.11	9.82	45.59	56.00	-10.41	QP
11	0.78	10.35	0.11	9.83	20.29	46.00	-25.71	Average
12	0.78	30.65	0.11	9.83	40.59	56.00	-15.41	QP

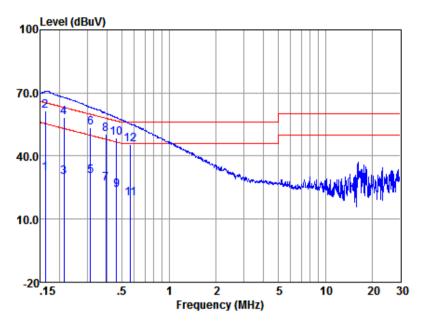
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Mode:d; Line:Neutral Line



LISN : NEUTRAL EUT/Project No : 3469CR

Test Mode : d

	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.16	21.96	0.12	9.81	31.89	55.38	-23.49	Average
2	0.16	51.49	0.12	9.81	61.42	65.38	-3.96	QP
3	0.21	19.98	0.11	9.81	29.90	53.10	-23.20	Average
4	0.21	48.67	0.11	9.81	58.59	63.10	-4.51	QP
5	0.31	20.49	0.11	9.81	30.41	49.84	-19.43	Average
6	0.31	43.73	0.11	9.81	53.65	59.84	-6.19	QP
7	0.39	17.01	0.11	9.81	26.93	47.99	-21.06	Average
8	0.39	40.65	0.11	9.81	50.57	57.99	-7.42	QP
9	0.46	14.03	0.11	9.82	23.96	46.67	-22.71	Average
10	0.46	38.86	0.11	9.82	48.79	56.67	-7.88	QP
11	0.57	9.92	0.11	9.82	19.85	46.00	-26.15	Average
12	0.57	35.78	0.11	9.82	45.71	56.00	-10.29	QP

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#### 7.2 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit: ≥500 kHz

#### 7.2.1 E.U.T. Operation

Operating Environment:

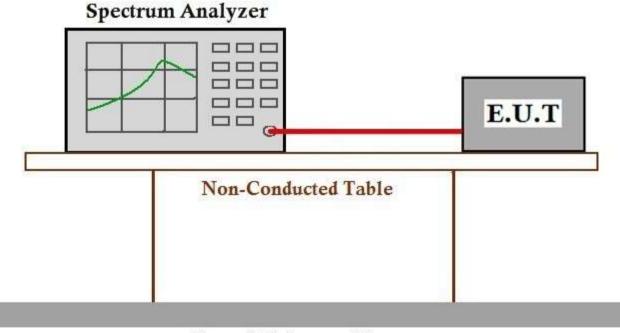
Temperature: 21 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar

Test mode a:Engineering Mode 1\_Using test software to control EUT working in continuous

transmitting, and select channel and modulation type.(DS-7108NI-K1/W/M by

Adapter 1)

#### 7.2.2 Test Setup Diagram



## Ground Reference Plane

#### 7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM180500347301



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## 7.3 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)
Test Method: ANSI C63.10 (2013) Section 11.9.1

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)				
	1 for ≥50 hopping channels				
902-928	0.25 for 25≤ hopping channels <50				
	1 for digital modulation				
	1 for ≥75 non-overlapping hopping channels				
2400-2483.5	0.125 for all other frequency hopping systems				
	1 for digital modulation				
5725-5850	1 for frequency hopping systems and digital modulation				

#### 7.3.1 E.U.T. Operation

Operating Environment:

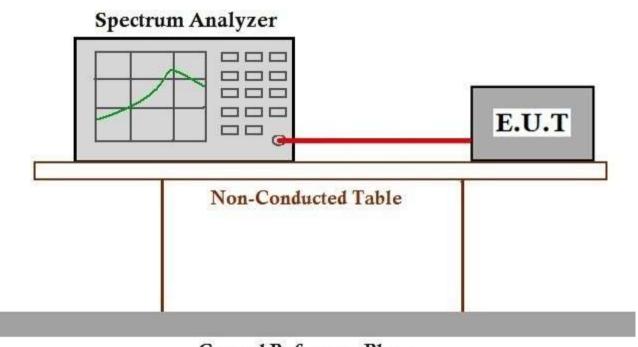
Temperature: 21 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar

Test mode a:Engineering Mode 1\_Using test software to control EUT working in continuous

transmitting, and select channel and modulation type.(DS-7108NI-K1/W/M by

Adapter 1)

#### 7.3.2 Test Setup Diagram



## **Ground Reference Plane**

#### 7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM180500347301



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### 7.4 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)
Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit: ≤8dBm in any 3 kHz band during any time interval of continuous

transmission

#### 7.4.1 E.U.T. Operation

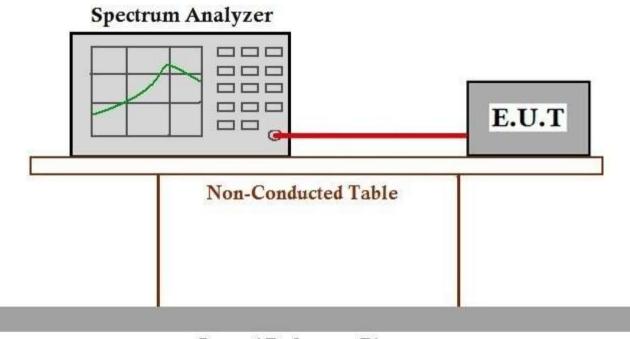
**Operating Environment:** 

Temperature: 21 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar Test mode a:Engineering Mode 1\_Using test software to control EUT working in continuous

transmitting, and select channel and modulation type.(DS-7108NI-K1/W/M by

Adapter 1)

#### 7.4.2 Test Setup Diagram



## Ground Reference Plane

#### 7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM180500347301



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## 7.5 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit: In any 100 kHz b

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in

§15.205(a), must also comply with the radiated emission limits specified in

§15.209(a) (see §15.205(c)

#### 7.5.1 E.U.T. Operation

**Operating Environment:** 

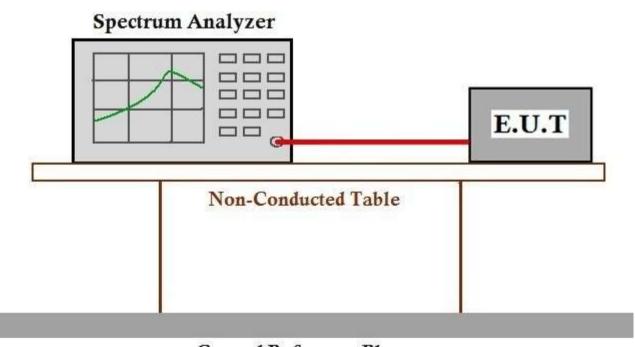
Temperature: 21 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar

Test mode a:Engineering Mode 1\_Using test software to control EUT working in continuous

transmitting, and select channel and modulation type.(DS-7108NI-K1/W/M by

Adapter 1)

#### 7.5.2 Test Setup Diagram



## Ground Reference Plane

#### 7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM180500347301

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## 7.6 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.11

Limit: In any 100 kHz bandwidth outside the frequency band in which the spread

spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition,

radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in

§15.209(a) (see §15.205(c)

#### 7.6.1 E.U.T. Operation

**Operating Environment:** 

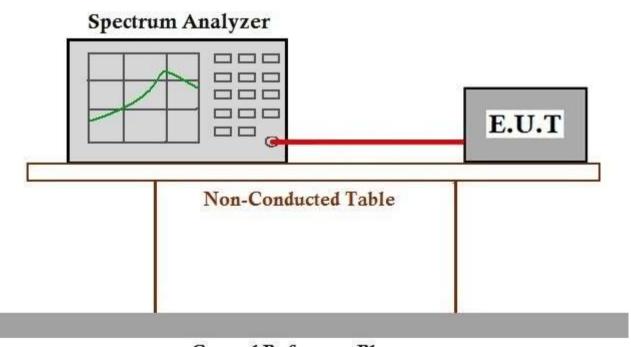
Temperature: 21 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar

Test mode a:Engineering Mode 1\_Using test software to control EUT working in continuous

transmitting, and select channel and modulation type.(DS-7108NI-K1/W/M by

Adapter 1)

#### 7.6.2 Test Setup Diagram



## Ground Reference Plane

#### 7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM180500347301

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#### 7.7 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

Test Method: ANSI C63.10 (2013) Section 6.10.5

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

#### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 21 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar

Pretest these mode to find the worst case:

a:Engineering Mode 1\_Using test software to control EUT working in continuous transmitting, and select channel and modulation type.(DS-7108NI-K1/W/M by Adapter 1)

b:Engineering Mode 2\_Using test software to control EUT working in continuous transmitting, and select channel and modulation type.(DS-7108NI-K1/W/M by Adapter 2)

c:Engineering Mode 3\_Using test software to control EUT working in continuous transmitting, and select channel and modulation type.(NVR-108MH-D/W by Adapter 1)

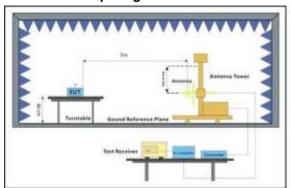
d:Engineering Mode 4\_Using test software to control EUT working in continuous transmitting, and select channel and modulation type.(NVR-108MH-D/W by Adapter 2)

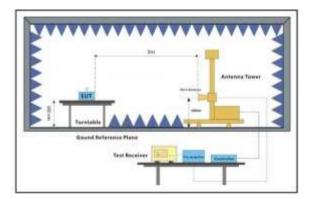


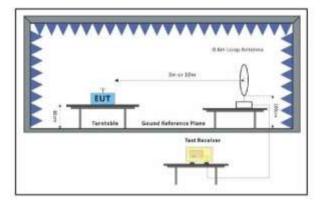
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## 7.7.2 Test Setup Diagram









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#### 7.7.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the 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 the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

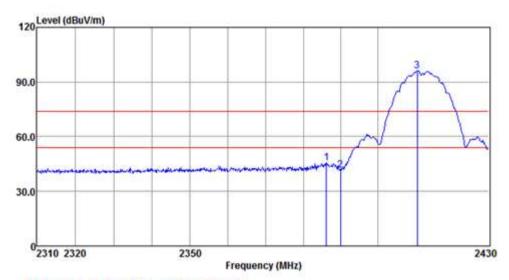
Remark 3: This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for b/g modulation and MIMO antenna operation for n modulation produced the worst emissions. So the emissions produced from other operation are not report.



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Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

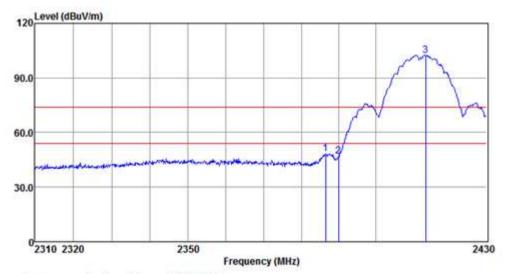
	Freq	Read Level	Antenna Factor		Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2386.22	50.29	26.03	6.47	37.36	45.43	74.00	-28.57	Peak
2	2390.00	46.64	26.03	6.47	37.36	41.78	74.00	-32.22	Peak
3	2410.63	100.84	26.06	6.50	37.35	96.05	74.00	22.05	Peak



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Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low



## Antenna Polarity : VERTICAL

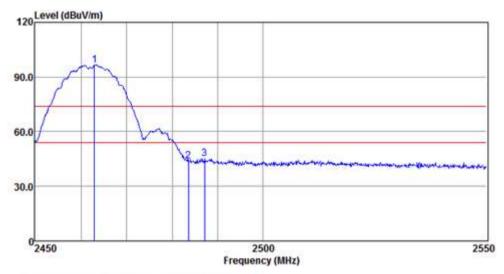
	Freq	Read Level			3-0-15	Emission Level		Over Limit	Remark
		****							*****
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2386.46	53.32	26.03	6.47	37.36	48.46	74.00	-25.54	Peak
2	2390.00	51.93	26.03	6.47	37.36	47.07	74.00	-26.93	Peak
3	2413.44	107.22	26.08	6.50	37.36	102.44	74.00	28.44	Peak



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Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

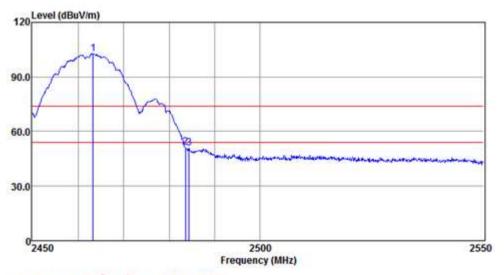
	Freq	Read Level	Antenna Factor		100000000000000000000000000000000000000	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2462.97	101.22	26.15	6.68	37.46	96.59	74.00	22.59	Peak
2	2483.50	48.36	26.18	6.80	37.51	43.83	74.00	-30.17	Peak
3	2487.03	49.82	26.18	6.80	37.51	45.29	74.00	-28.71	Peak



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Mode:a; Polarization: Vertical; Modulation:b; bandwidth: 20MHz; Channel: High



Antenna Polarity : VERTICAL

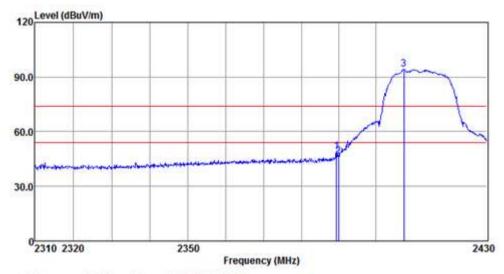
	Freq	Read Level			11, 11 = 1-11	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2463.27	107.25	26.15	6.68	37.46	102.62	74.00	28.62	Peak
2	2483.50	55.89	26.18	6.80	37.51	51.36	74.00	-22.64	Peak
3	2484.35	55.39	26.18	6.80	37.51	50.86	74.00	-23.14	Peak



Report No.: SHEM180500347301

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Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

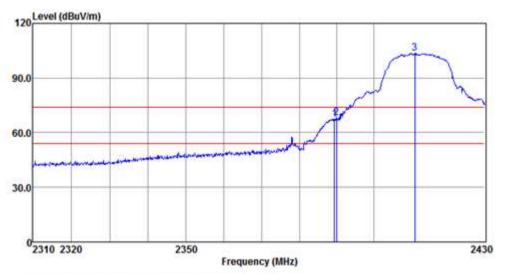
		Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2389.36	54.04	26.03	6.47	37.36	49.18	74.00	-24.82	Peak
2	2390.00	51.56	26.03	6.47	37.36	46.70	74.00	-27.30	Peak
3	2407.58	98.93	26.06	6.50	37.35	94.14	74.00	20.14	Peak



Report No.: SHEM180500347301

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Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

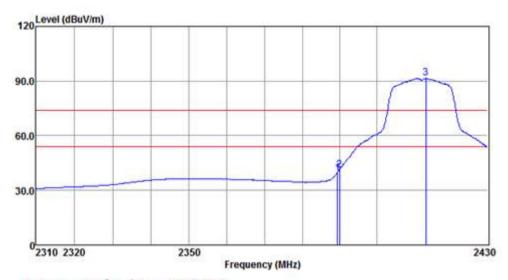
	Freq	Read Freq Level			THE RESIDENCE OF SECTION	Emission Level	Limit Line	Over Limit	Remark
								*****	
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2389.36	72.12	26.03	6.47	37.36	67.26	74.00	-6.74	Peak
2	2390.00	73.15	26.03	6.47	37.36	68.29	74.00	-5.71	Peak
3	2411.00	108.61	26.06	6.50	37.35	103.82	74.00	29.82	Peak



Report No.: SHEM180500347301

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Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

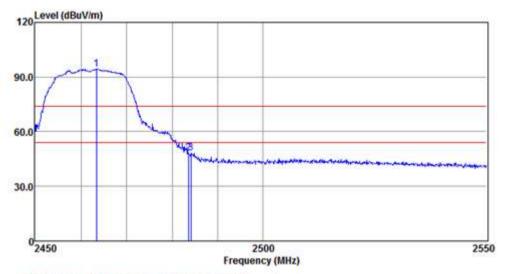
	F-124	Read				Emission			D t.
	Freq	rever	Factor	Loss	Factor	rever	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2389.36	44.45	26.03	6.47	37.36	39.59	54.00	-14.41	Average
2	2390.00	46.17	26.03	6.47	37.36	41.31	54.00	-12.69	Average
3	2413.20	96.25	26.08	6.50	37.36	91.47	54.00	37.47	Average



Report No.: SHEM180500347301

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Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

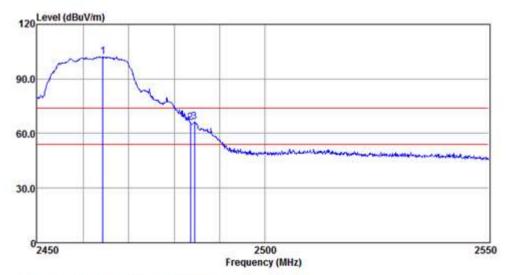
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2463.37	99.04	26.15	6.68	37.46	94.41	74.00	20.41	Peak
2	2483.50	52.77	26.18	6.80	37.51	48.24	74.00	-25.76	Peak
3	2484.05	52.99	26.18	6.80	37.51	48.46	74.00	-25.54	Peak



Report No.: SHEM180500347301

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Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

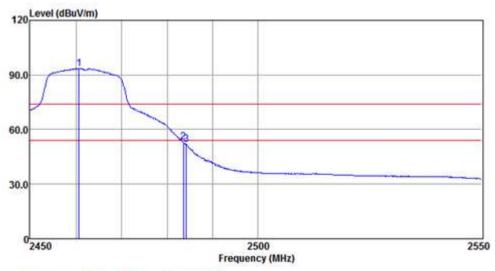
	Freq				1	Emission Level			Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2464.35	106.92	26.15	6.68	37.46	102.29	74.00	28.29	Peak
2	2483.50	70.67	26.18	6.80	37.51	66.14	74.00	-7.86	Peak
3	2484.45	70.89	26.18	6.80	37.51	66.36	74.00	-7.64	Peak



Report No.: SHEM180500347301

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Mode:a; Polarization: Vertical; Modulation:g; bandwidth: 20MHz; Channel: High



Antenna Polarity : VERTICAL

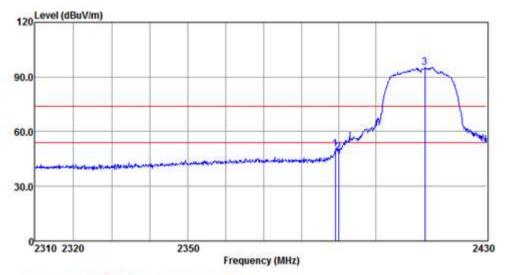
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHZ	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2460.61	98.27	26.15	6.68	37.46	93.64	54.00	39.64	Average
2	2483.50	57.46	26.18	6.80	37.51	52.93	54.00	-1.07	Average
3	2484.15	56.21	26.18	6.80	37.51	51.68	54.00	-2.32	Average



Report No.: SHEM180500347301

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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

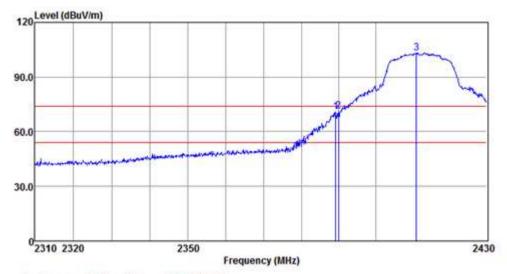
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
				****					
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2389.12	55.53	26.03	6.47	37.36	50.67	74.00	-23.33	Peak
2	2390.00	53.36	26.03	6.47	37.36	48.50	74.00	-25.50	Peak
3	2413.20	99.95	26.08	6.50	37.36	95.17	74.00	21.17	Peak



Report No.: SHEM180500347301

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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

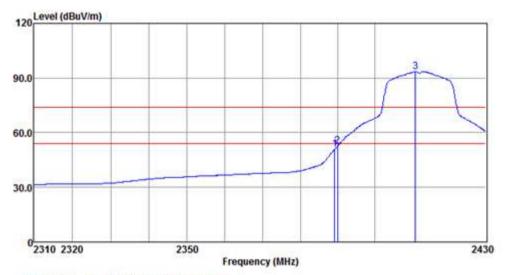
	Freq	Read Level	Antenna Factor			Emission Level	Limit Line		Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2389.24	75.50	26.03	6.47	37.36	70.64	74.00	-3.36	Peak
2	2390.00	76.29	26.03	6.47	37.36	71.43	74.00	-2.57	Peak
3	2410.88	108.10	26.06	6.50	37.35	103.31	74.00	29.31	Peak



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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



#### Antenna Polarity : VERTICAL

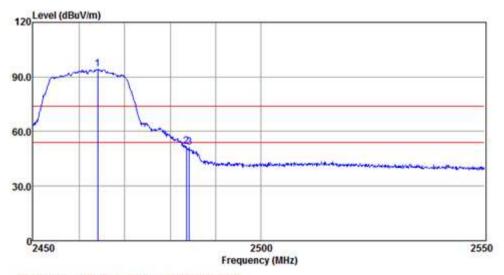
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2389.24	55.77	26.03	6.47	37.36	50.91	54.00	-3.09	Average
2	2390.00	57.44	26.03	6.47	37.36	52.58	54.00	-1.42	Average
3	2410.88	98.15	26.06	6.50	37.35	93.36	54.00	39.36	Average



Report No.: SHEM180500347301

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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

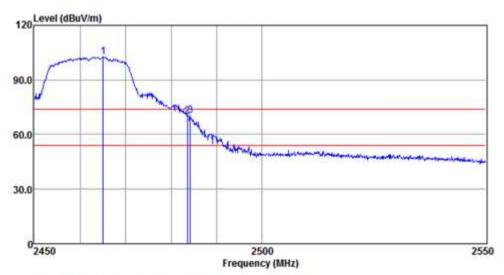
	Freq	Read Level	Antenna Factor		Preamp Factor	Emission Level	Limit Line		Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2464.06	98.73	26.15	6.68	37.46	94.10	74.00	20.10	Peak
2	2483.50	56.31	26.18	6.80	37.51	51.78	74.00	-22.22	Peak
3	2484.15	55.91	26.18	6.80	37.51	51.38	74.00	-22.62	Peak



Report No.: SHEM180500347301

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Mode:a; Polarization: Vertical; Modulation:n; bandwidth: 20MHz; Channel: High



Antenna Polarity : VERTICAL

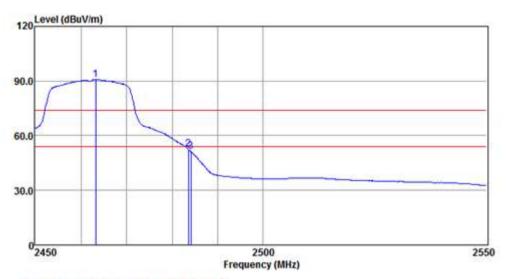
	Freq	Read Level	Antenna Factor	Cable Loss	112000000000000000000000000000000000000	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2465.04	107.15	26.15	6.74	37.46	102.58	74.00	28.58	Peak
2	2483.50	74.51	26.18	6.80	37.51	69.98	74.00	-4.02	Peak
3	2484.15	75.04	26.18	6.80	37.51	70.51	74.00	-3.49	Peak



Report No.: SHEM180500347301

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Mode:a; Polarization: Vertical; Modulation:n; bandwidth: 20MHz; Channel: High



#### Antenna Polarity : VERTICAL

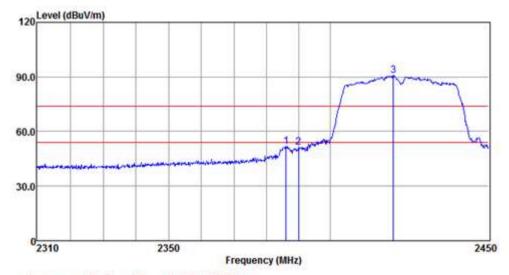
	Frea	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission	Limit Line	Over Limit	Remark
	rreq	rever	ractor	LUSS	ractor	rever	Line	LIMIT	Kelliai K
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2463.17	95.63	26.15	6.68	37.46	91.00	54.00	37.00	Average
2	2483.50	57.01	26.18	6.80	37.51	52.48	54.00	-1.52	Average
3	2484.05	55.90	26.18	6.80	37.51	51.37	54.00	-2.63	Average



Report No.: SHEM180500347301

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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



Antenna Polarity : HORIZONTAL

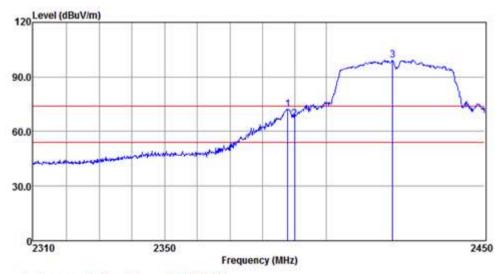
	Freq					Emission Level			Remark
				****			*****		
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2386.12	56.61	26.03	6.47	37.36	51.75	74.00	-22.25	Peak
2	2390.00	56.18	26.03	6.47	37.36	51.32	74.00	-22.68	Peak
3	2419.77	95.37	26.09	6.56	37.38	90.64	74.00	16.64	Peak



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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



Antenna Polarity : VERTICAL

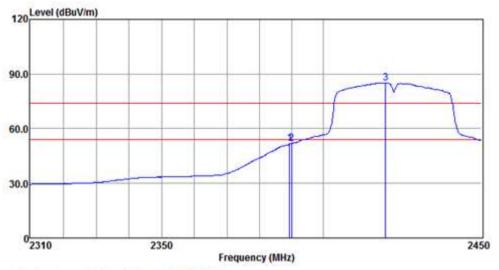
		Read				Emission		Over	0
	Freq	rever	Factor	Loss	Factor	rever	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2387.95	76.99	26.03	6.47	37.36	72.13	74.00	-1.87	Peak
2	2390.00	71.94	26.03	6.47	37.36	67.08	74.00	-6.92	Peak
3	2420.77	103.80	26.09	6.56	37.38	99.07	74.00	25.07	Peak



Report No.: SHEM180500347301

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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



Antenna Polarity : VERTICAL

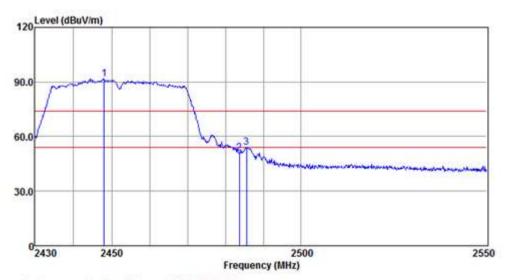
	Face	Read			Preamp Factor	Emission		Over	Remark
	Freq	rever	Factor	LOSS	ractor	rever	Line	Limit	Kemark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2389.49	56.46	26.03	6.47	37.36	51.60	54.00	-2.40	Average
2	2390.00	56.55	26.03	6.47	37.36	51.69	54.00	-2.31	Average
3	2419.49	89.85	26.09	6.56	37.38	85.12	54.00	31.12	Average



Report No.: SHEM180500347301

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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



Antenna Polarity : HORIZONTAL

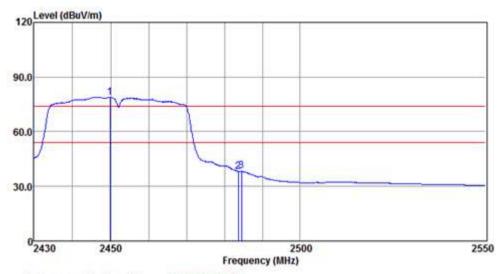
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2447.99	96.13	26.13	6.68	37.43	91.51	74.00	17.51	Peak
2	2483.50	55.59	26.18	6.80	37.51	51.06	74.00	-22.94	Peak
3	2485.44	58.53	26.18	6.80	37.51	54.00	74.00	-20.00	Peak



Report No.: SHEM180500347301

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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



Antenna Polarity : HORIZONTAL

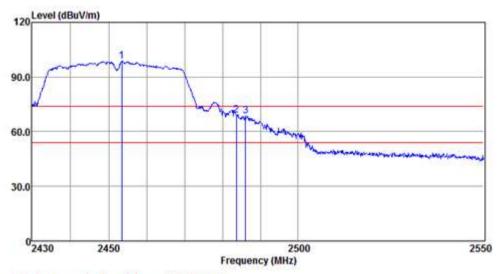
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2449.76	83.58	26.13	6.68	37.43	78.96	54.00	24.96	Average
2	2483.50	42.82	26.18	6.80	37.51	38.29	54.00	-15.71	Average
3	2484.36	42.87	26.18	6.80	37.51	38.34	54.00	-15.66	Average



Report No.: SHEM180500347301

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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



Antenna Polarity : VERTICAL

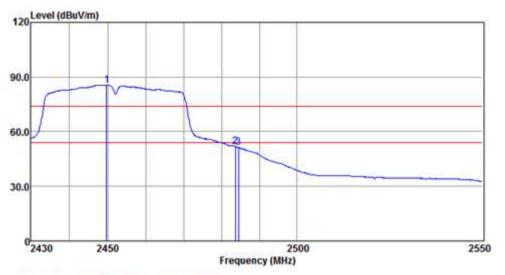
	Freq		Antenna Factor		100	Emission Level	Limit Line	Over Limit	Remark
				****					
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2453.42	103.23	26.14	6.68	37.45	98.60	74.00	24.60	Peak
2	2483.50	73.76	26.18	6.80	37.51	69.23	74.00	-4.77	Peak
3	2486.04	73.16	26.18	6.80	37.51	68.63	74.00	-5.37	Peak



Report No.: SHEM180500347301

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Mode:a; Polarization: Vertical; Modulation:n; bandwidth: 40MHz; Channel: High



Antenna Polarity : VERTICAL

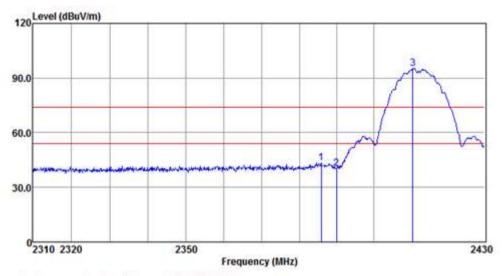
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2449.64	90.18	26.13	6.68	37.43	85.56	54.00	31.56	Average
2	2483.50	56.43	26.18	6.80	37.51	51.90	54.00	-2.10	Average
3	2484.36	55.89	26.18	6.80	37.51	51.36	54.00	-2.64	Average



Report No.: SHEM180500347301

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Mode:b; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

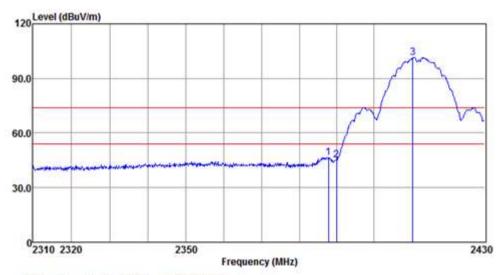
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2385.86	48.37	26.03	6.47	37.36	43.51	74.00	-30.49	Peak
2	2390.00	45.30	26.03	6.47	37.36	40.44	74.00	-33.56	Peak
3	2410.51	99.88	26.06	6.50	37.35	95.09	74.00	21.09	Peak



Report No.: SHEM180500347301

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Mode:b; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

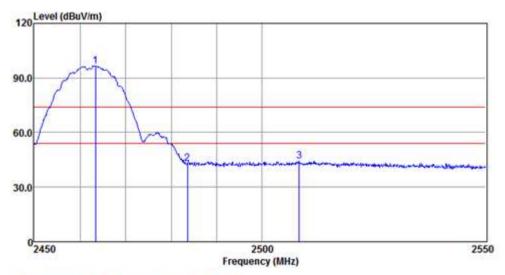
	Freq	Read Level	Antenna Factor			Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2387.79	51.53	26.03	6.47	37.36	46.67	74.00	-27.33	Peak
2	2390.00	49.99	26.03	6.47	37.36	45.13	74.00	-28.87	Peak
3	2410.51	106.24	26.06	6.50	37.35	101.45	74.00	27.45	Peak



Report No.: SHEM180500347301

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Mode:b; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

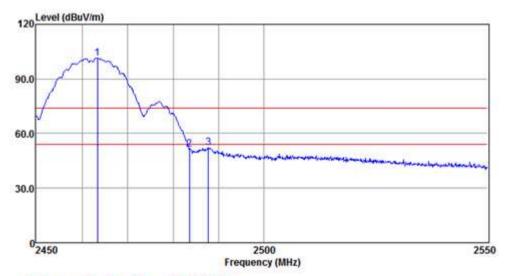
	Freq	Read Level	Antenna Factor			Emission Level	Limit Line		Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2463.37	101.27	26.15	6.68	37.46	96.64	74.00	22.64	Peak
2	2483.50	47.43	26.18	6.80	37.51	42.90	74.00	-31.10	Peak
3	2508.22	48.72	26.22	6.86	37.55	44.25	74.00	-29.75	Peak



Report No.: SHEM180500347301

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Mode:b; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

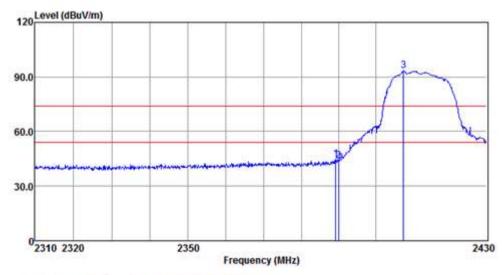
	Freq	Read Level	Antenna Factor	Cable Loss		Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2463.37	106.13	26.15	6.68	37.46	101.50	74.00	27.50	Peak
2	2483.50	56.06	26.18	6.80	37.51	51.53	74.00	-22.47	Peak
3	2487.73	56.98	26.18	6.80	37.51	52.45	74.00	-21.55	Peak



Report No.: SHEM180500347301

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Mode:b; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

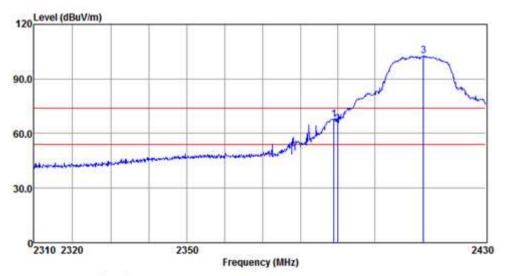
	Freq	Read	Antenna Factor		Preamp	Emission	Limit Line	Over Limit	Remark
	11.54	rever	raccor	2033	ractor	rever	Line	CIMIC	remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2389.24	49.70	26.03	6.47	37.36	44.84	74.00	-29.16	Peak
2	2390.00	48.88	26.03	6.47	37.36	44.02	74.00	-29.98	Peak
3	2407.46	98.17	26.06	6.50	37.35	93.38	74.00	19.38	Peak



Report No.: SHEM180500347301

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Mode:b; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

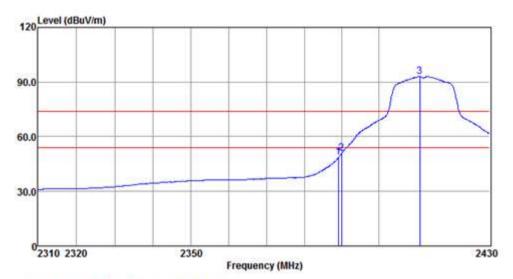
	Freq	Read Level	Antenna Factor			Emission Level	Limit Line		Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2389.00	72.78	26.03	6.47	37.36	67.92	74.00	-6.08	Peak
2	2390.00	69.80	26.03	6.47	37.36	64.94	74.00	-9.06	Peak
3	2413.08	107.32	26.08	6.50	37.36	102.54	74.00	28.54	Peak



Report No.: SHEM180500347301

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Mode:b; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

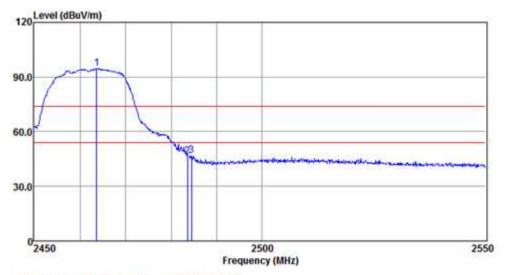
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
				*****					
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2389.12	53.38	26.03	6.47	37.36	48.52	54.00	-5.48	Average
2	2390.00	55.58	26.03	6.47	37.36	50.72	54.00	-3.28	Average
3	2411.00	97.91	26.06	6.50	37.35	93.12	54.00	39.12	Average



Report No.: SHEM180500347301

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Mode:b; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

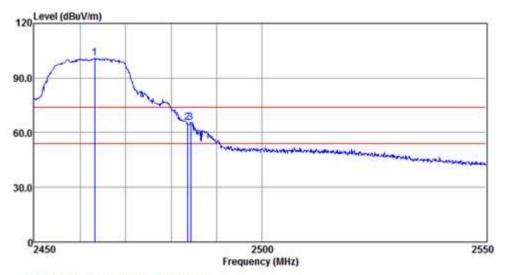
	Freq	Read Level	Antenna Factor		Preamp Factor	Emission Level	Limit Line		Remark
				*****					
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2463.66	99,42	26.15	6.68	37.46	94.79	74.00	20.79	Peak
2	2483.50	51.15	26.18	6.80	37.51	46.62	74.00	-27.38	Peak
3	2484.45	51.39	26.18	6.80	37.51	46.86	74.00	-27.14	Peak



Report No.: SHEM180500347301

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Mode:b; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



#### Antenna Polarity : VERTICAL

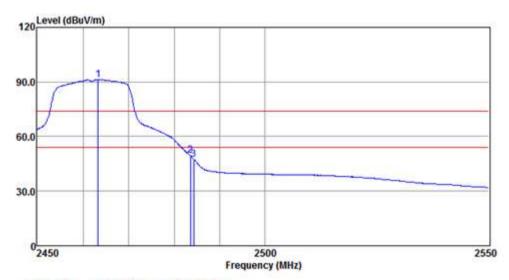
	Freq					Emission Level	Limit Line		Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2463.17	105.68	26.15	6.68	37.46	101.05	74.00	27.05	Peak
2	2483.50	70.01	26.18	6.80	37.51	65.48	74.00	-8.52	Peak
3	2484.25	70.24	26.18	6.80	37.51	65.71	74.00	-8.29	Peak



Report No.: SHEM180500347301

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Mode:b; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

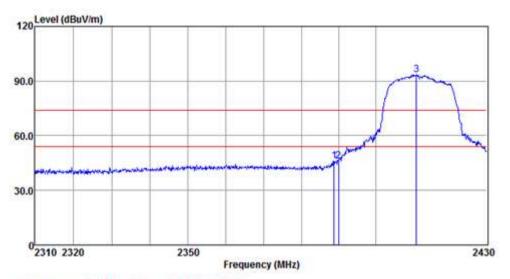
	Read	Antenna	Cable	Preamp	Emission	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2463.27	96.02	26.15	6.68	37.46	91.39	54.00	37.39	Average
2483.50	53.97	26.18	6.80	37.51	49.44	54.00	-4.56	Average
2484.25	52.07	26.18	6.80	37.51	47.54	54.00	-6.46	Average
		Freq Level MHz dBuv 2463.27 96.02 2483.50 53.97	Freq Level Factor  MHz dBuv dB/m  2463.27 96.02 26.15  2483.50 53.97 26.18	Freq Level Factor Loss  MHz dBuv dB/m dB  2463.27 96.02 26.15 6.68  2483.50 53.97 26.18 6.80	Freq         Level         Factor         Loss         Factor           MHz         dBuv         dB/m         dB         dB           2463.27         96.02         26.15         6.68         37.46           2483.50         53.97         26.18         6.80         37.51	Freq Level Factor Loss Factor Level  MHz dBuv dB/m dB dB dBuv/m  2463.27 96.02 26.15 6.68 37.46 91.39  2483.50 53.97 26.18 6.80 37.51 49.44	Freq Level Factor Loss Factor Level Line  MHz dBuv dB/m dB dB dBuv/m dBuv/m 2463.27 96.02 26.15 6.68 37.46 91.39 54.00 2483.50 53.97 26.18 6.80 37.51 49.44 54.00	Freq         Level         Factor         Loss         Factor         Level         Line         Limit           MHz         dBuv         dB/m         dB         dBuv/m         dBuv/m         dBuv/m         dB           2463.27         96.02         26.15         6.68         37.46         91.39         54.00         37.39           2483.50         53.97         26.18         6.80         37.51         49.44         54.00         -4.56



Report No.: SHEM180500347301

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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

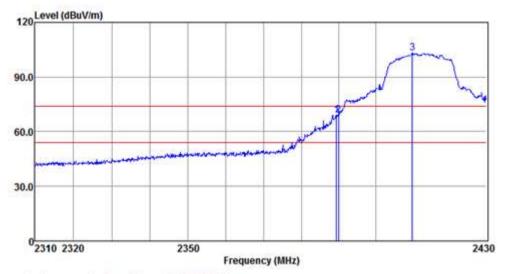
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2388.76	51.04	26.03	6.47	37.36	46.18	74.00	-27.82	Peak
2	2390.00	50.90	26.03	6.47	37.36	46.04	74.00	-27.96	Peak
3	2410.88	98.32	26.06	6.50	37.35	93.53	74.00	19.53	Peak



Report No.: SHEM180500347301

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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

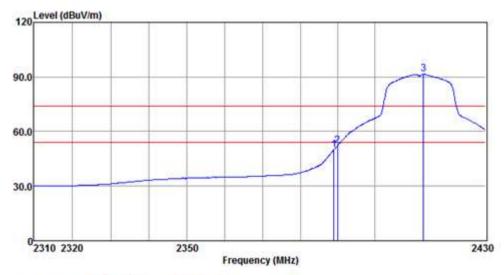
		Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2389.36	74.06	26.03	6.47	37.36	69.20	74.00	-4.80	Peak
2	2390.00	74.14	26.03	6.47	37.36	69.28	74.00	-4.72	Peak
3	2409.78	107.90	26.06	6.50	37.35	103.11	74.00	29.11	Peak



Report No.: SHEM180500347301

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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

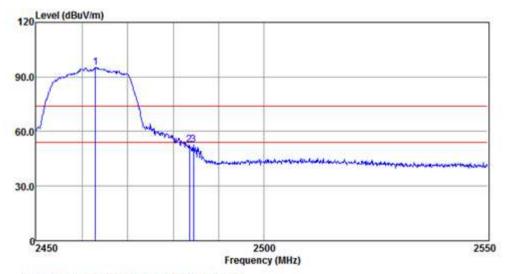
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2389.00	54.97	26.03	6.47	37.36	50.11	54.00	-3.89	Average
2	2390.00	57.17	26.03	6.47	37.36	52.31	54.00	-1.69	Average
3	2413.08	96.29	26.08	6.50	37.36	91.51	54.00	37.51	Average



Report No.: SHEM180500347301

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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

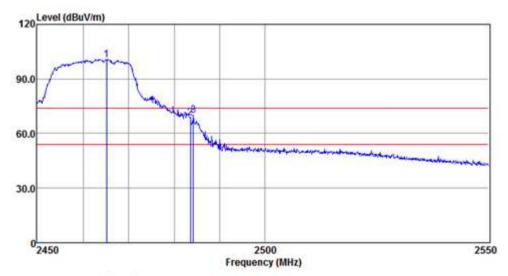
	Freq	Read Level	Antenna Factor			Emission Level	Limit Line		Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2462.97	99.70	26.15	6.68	37.46	95.07	74.00	21.07	Peak
2	2483.50	57.11	26.18	6.80	37.51	52.58	74.00	-21.42	Peak
3	2484.45	57.30	26.18	6.80	37.51	52.77	74.00	-21.23	Peak



Report No.: SHEM180500347301

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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

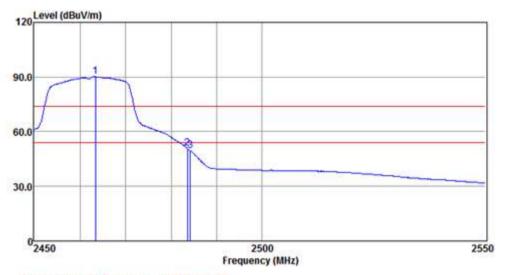
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2465.14	105.24	26.15	6.74	37.46	100.67	74.00	26.67	Peak
2	2483.50	73.38	26.18	6.80	37.51	68.85	74.00	-5.15	Peak
3	2484.15	74.47	26.18	6.80	37.51	69.94	74.00	-4.06	Peak



Report No.: SHEM180500347301

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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



#### Antenna Polarity : VERTICAL

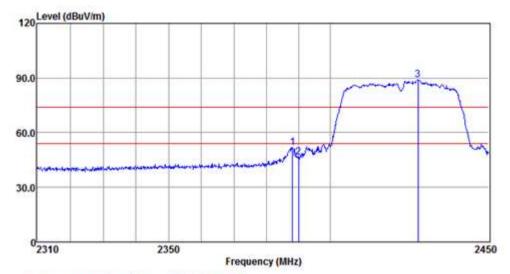
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2463.37	94.88	26.15	6.68	37.46	90.25	54.00	36.25	Average
2	2483.50	55.42	26.18	6.80	37.51	50.89	54.00	-3.11	Average
3	2484.15	54.14	26.18	6.80	37.51	49.61	54.00	-4.39	Average



Report No.: SHEM180500347301

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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



Antenna Polarity : HORIZONTAL

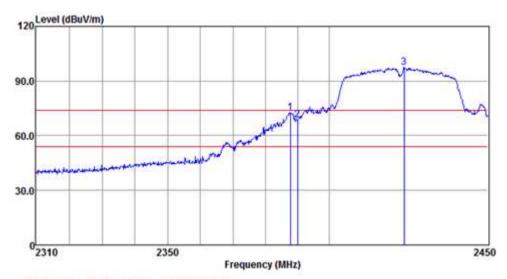
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
			*****						
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2388.23	56.88	26.03	6.47	37.36	52.02	74.00	-21.98	Peak
2	2390.00	51.33	26.03	6.47	37.36	46.47	74.00	-27.53	Peak
3	2427.47	93.64	26.10	6.56	37.39	88.91	74.00	14.91	Peak



Report No.: SHEM180500347301

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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



Antenna Polarity : VERTICAL

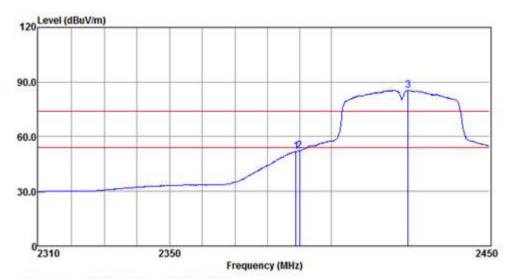
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2387.81	77.45	26.03	6.47	37.36	72.59	74.00	-1.41	Peak
2	2390.00	73.30	26.03	6.47	37.36	68.44	74.00	-5.56	Peak
3	2423.48	102.07	26.09	6.56	37.38	97.34	74.00	23.34	Peak



Report No.: SHEM180500347301

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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



Antenna Polarity : VERTICAL

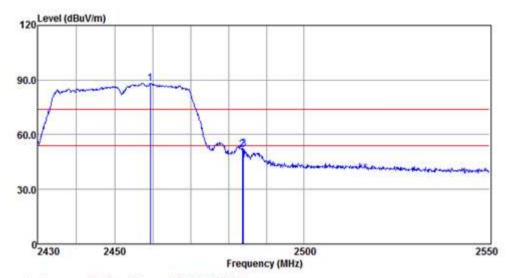
	Freq	Read	Antenna Factor	Cable Loss	Preamp	Emission Level	Limit Line	Over Limit	Remark
	rreq	rever	Lac roi.	LUSS	ractor	rever	rine	CIMIC	nemark.
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2388.93	56.69	26.03	6.47	37.36	51.83	54.00	-2.17	Average
2	2390.00	57.06	26.03	6.47	37.36	52.20	54.00	-1.80	Average
3	2424.05	90.15	26.09	6.56	37.38	85.42	54.00	31.42	Average



Report No.: SHEM180500347301

Page: 71 of 140

Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



Antenna Polarity : HORIZONTAL

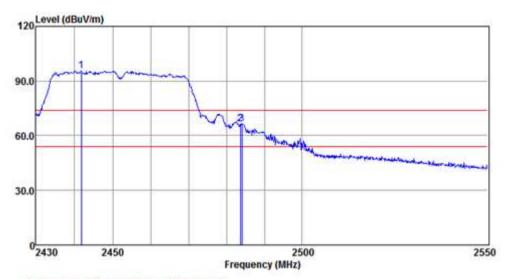
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
				****					
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2459.34	92.90	26.14	6.68	37.45	88.27	74.00	14.27	Peak
2	2483.50	56.36	26.18	6.80	37.51	51.83	74.00	-22.17	Peak
3	2483.88	56.75	26.18	6.80	37.51	52.22	74.00	-21.78	Peak



Report No.: SHEM180500347301

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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



#### Antenna Polarity : VERTICAL

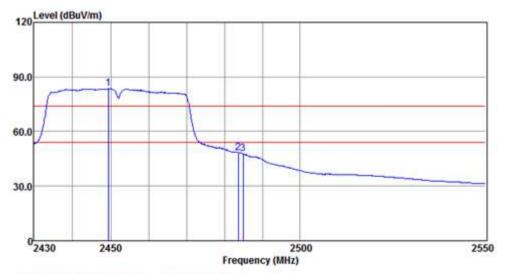
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2441.74	100.42	26.12	6.62	37.42	95.74	74.00	21.74	Peak
2	2483.50	70.75	26.18	6.80	37.51	66.22	74.00	-7.78	Peak
3	2484.00	71.01	26.18	6.80	37.51	66.48	74.00	-7.52	Peak



Report No.: SHEM180500347301

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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



Antenna Polarity : VERTICAL

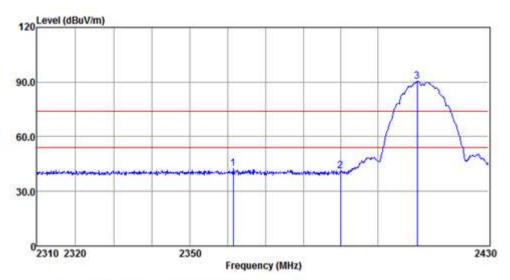
	Freq	Read	Antenna Factor		3. 176.5 176.000	Emission	Limit Line		Remark
	rreq	rever	ractor	LUSS	ractor	rever	Line	LIMIC	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2449.40	88.19	26.13	6.68	37.43	83.57	54.00	29.57	Average
2	2483.50	52.99	26.18	6.80	37.51	48.46	54.00	-5.54	Average
3	2484.84	52.33	26.18	6.80	37.51	47.80	54.00	-6.20	Average



Report No.: SHEM180500347301

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Mode:c; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

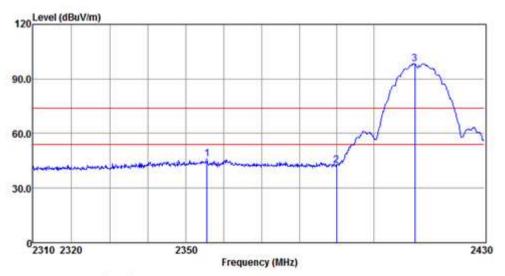
	Freq					Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2361.33	47.39	25.99	6.42	37.36	42.44	74.00	-31.56	Peak
2	2390.00	45.89	26.03	6.47	37.36	41.03	74.00	-32.97	Peak
3	2410.63	95.11	26.06	6.50	37.35	90.32	74.00	16.32	Peak



Report No.: SHEM180500347301

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Mode:c; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

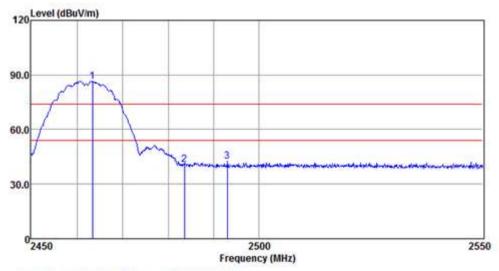
	Freq	Read Level				Emission Level	Limit Line	Over Limit	Remark
					*****				
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2355.48	50.88	25.98	6.42	37.36	45.92	74.00	-28.08	Peak
2	2390.00	47.46	26.03	6.47	37.36	42.60	74.00	-31.40	Peak
3	2411.00	103.08	26.06	6.50	37.35	98.29	74.00	24.29	Peak



Report No.: SHEM180500347301

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Mode:c; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

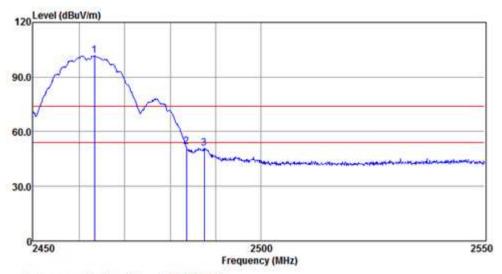
	Freq	Read Level	Antenna Factor			Emission Level	Limit Line		Remark
									*****
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2463.37	91.00	26.15	6.68	37.46	86.37	74.00	12.37	Peak
2	2483.50	45.10	26.18	6.80	37.51	40.57	74.00	-33.43	Peak
3	2492.91	46.96	26.19	6.80	37.52	42.43	74.00	-31.57	Peak



Report No.: SHEM180500347301

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Mode:c; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

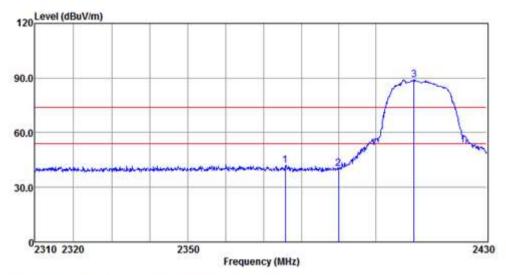
	Freq	Read Level	Antenna Factor		1.0	Emission Level	Limit Line	Over Limit	Remark
								27.525	222222
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2463.37	106.27	26.15	6.68	37.46	101.64	74.00	27.64	Peak
2	2483.50	56.55	26.18	6.80	37.51	52.02	74.00	-21.98	Peak
3	2487.43	55.62	26.18	6.80	37.51	51.09	74.00	-22.91	Peak



Report No.: SHEM180500347301

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Mode:c; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

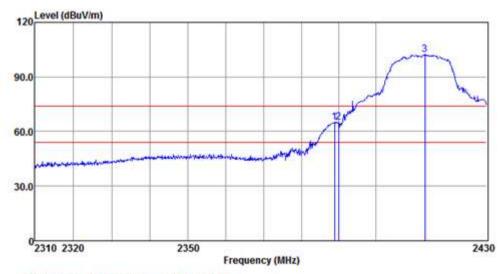
	Freq	Read Level			Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2375.73	46.81	26.01	6.45	37.36	41.91	74.00	-32.09	Peak
2	2390.00	45.28	26.03	6.47	37.36	40.42	74.00	-33.58	Peak
3	2410.27	93.76	26.06	6.50	37.35	88.97	74.00	14.97	Peak



Report No.: SHEM180500347301

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Mode:c; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



#### Antenna Polarity : VERTICAL

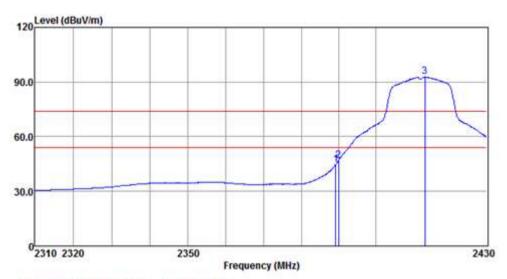
	Freq				THE RESIDENCE OF THE PARTY.	Emission Level		Over Limit	Remark
								*****	
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2388.88	69.95	26.03	6.47	37.36	65.09	74.00	-8.91	Peak
2	2390.00	69.95	26.03	6.47	37.36	65.09	74.00	-8.91	Peak
3	2413.20	107.11	26.08	6.50	37.36	102.33	74.00	28.33	Peak



Report No.: SHEM180500347301

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Mode:c; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

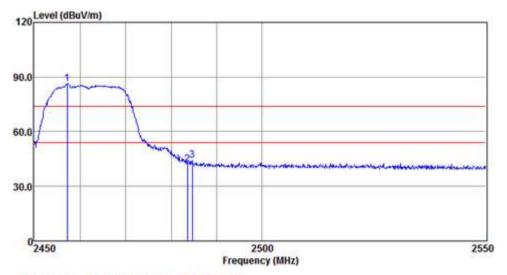
	Freq	Read Level	Antenna Factor			Emission Level	Limit Line		Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2389.24	49.65	26.03	6.47	37.36	44.79	54.00	-9.21	Average
2	2390.00	51.79	26.03	6.47	37.36	46.93	54.00	-7.07	Average
3	2413.20	97.61	26.08	6.50	37.36	92.83	54.00	38.83	Average



Report No.: SHEM180500347301

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Mode:c; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

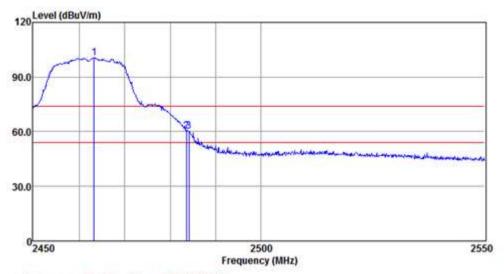
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2457.26	90.94	26.14	6.68	37.45	86.31	74.00	12.31	Peak
2	2483.50	46.78	26.18	6.80	37.51	42.25	74.00	-31.75	Peak
3	2484.55	48.97	26.18	6.80	37.51	44.44	74.00	-29.56	Peak



Report No.: SHEM180500347301

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Mode:c; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

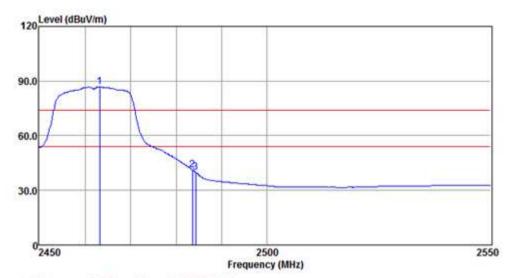
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2463.27	105.12	26.15	6.68	37.46	100.49	74.00	26.49	Peak
2	2483.50	64.83	26.18	6.80	37.51	60.30	74.00	-13.70	Peak
3	2484.05	64.54	26.18	6.80	37.51	60.01	74.00	-13.99	Peak



Report No.: SHEM180500347301

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Mode:c; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



#### Antenna Polarity : VERTICAL

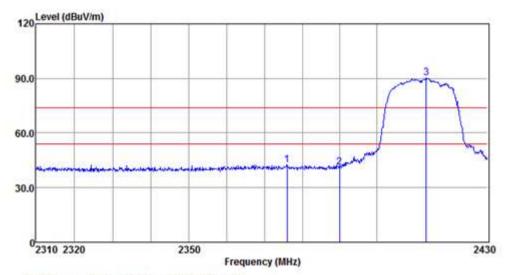
		Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2463.17	91.56	26.15	6.68	37.46	86.93	54.00	32.93	Average
2	2483.50	45.82	26.18	6.80	37.51	41.29	54.00	-12.71	Average
3	2484.25	44.45	26.18	6.80	37.51	39.92	54.00	-14.08	Average



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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

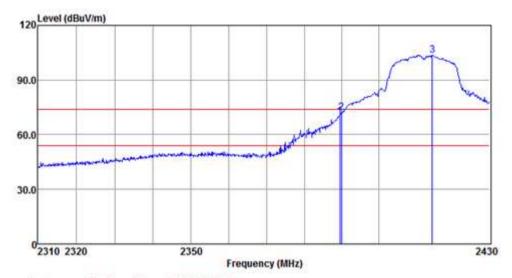
	Freq	Read Level	Antenna Factor			Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2375.97	47.55	26.01	6.45	37.36	42.65	74.00	-31.35	Peak
2	2390.00	46.17	26.03	6.47	37.36	41.31	74.00	-32.69	Peak
3	2413.32	94.91	26.08	6.50	37.36	90.13	74.00	16.13	Peak



Report No.: SHEM180500347301

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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

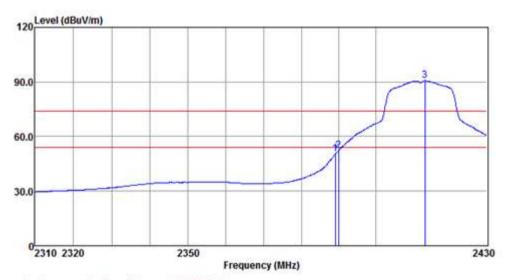
	Freq				100	Emission Level		Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2389.48	74.93	26.03	6.47	37.36	70.07	74.00	-3.93	Peak
2	2390.00	76.90	26.03	6.47	37.36	72.04	74.00	-1.96	Peak
3	2414.42	108.40	26.08	6.50	37.36	103.62	74.00	29.62	Peak



Report No.: SHEM180500347301

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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

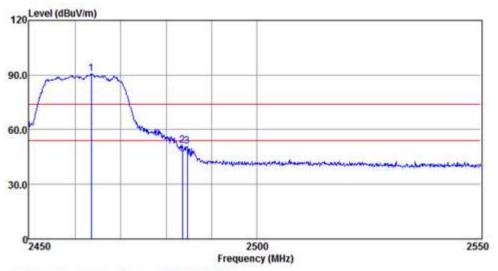
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
			******						
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2389.12	55.25	26.03	6.47	37.36	50.39	54.00	-3.61	Average
2	2390.00	57.19	26.03	6.47	37.36	52.33	54.00	-1.67	Average
3	2413.20	95.46	26.08	6.50	37.36	90.68	54.00	36.68	Average



Report No.: SHEM180500347301

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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

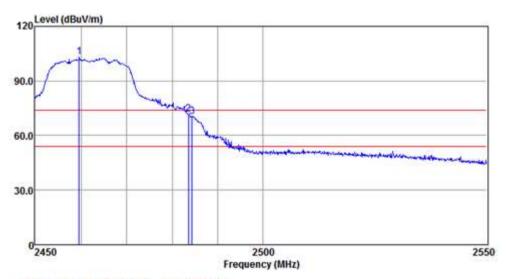
	Freq	Read Level				Emission Level	Limit Line		Remark
				****					
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2463.56	95.46	26.15	6.68	37.46	90.83	74.00	16.83	Peak
2	2483.50	55.78	26.18	6.80	37.51	51.25	74.00	-22.75	Peak
3	2484.55	55.28	26.18	6.80	37.51	50.75	74.00	-23.25	Peak



Report No.: SHEM180500347301

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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

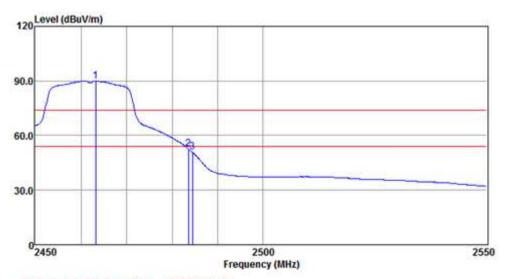
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2459.62	107.62	26.14	6.68	37.45	102.99	74.00	28.99	Peak
2	2483.50	76.17	26.18	6.80	37.51	71.64	74.00	-2.36	Peak
3	2484.35	75.15	26.18	6.80	37.51	70.62	74.00	-3.38	Peak



Report No.: SHEM180500347301

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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

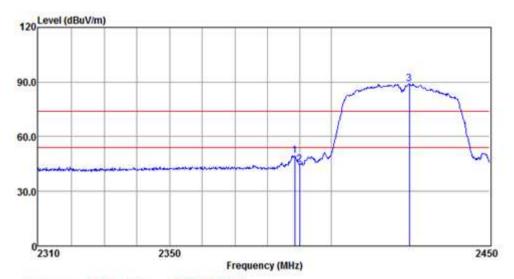
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2463.17	94.67	26.15	6.68	37.46	90.04	54.00	36.04	Average
2	2483.50	57.16	26.18	6.80	37.51	52.63	54.00	-1.37	Average
3	2484.45	55.28	26.18	6.80	37.51	50.75	54.00	-3.25	Average



Report No.: SHEM180500347301

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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



Antenna Polarity : HORIZONTAL

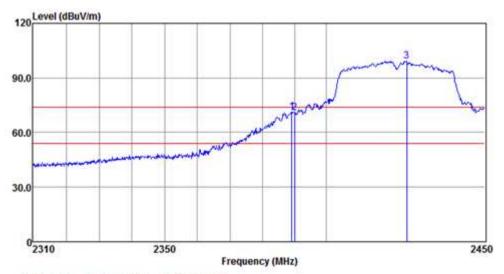
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2388.51	54.35	26.03	6.47	37.36	49.49	74.00	-24.51	Peak
2	2390.00	49.36	26.03	6.47	37.36	44.50	74.00	-29.50	Peak
3	2424.47	93.92	26.09	6.56	37.38	89.19	74.00	15.19	Peak



Report No.: SHEM180500347301

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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



Antenna Polarity : VERTICAL

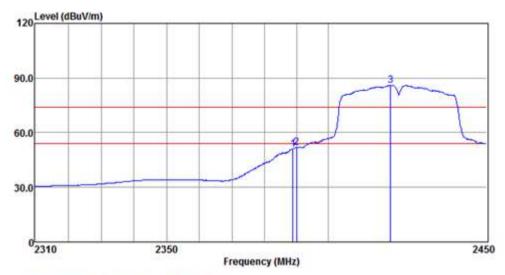
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2389.21	76.13	26.03	6.47	37.36	71.27	74.00	-2.73	Peak
2	2390.00	75.74	26.03	6.47	37.36	70.88	74.00	-3.12	Peak
3	2425.19	104.03	26.10	6.56	37.39	99.30	74.00	25.30	Peak



Report No.: SHEM180500347301

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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



Antenna Polarity : VERTICAL

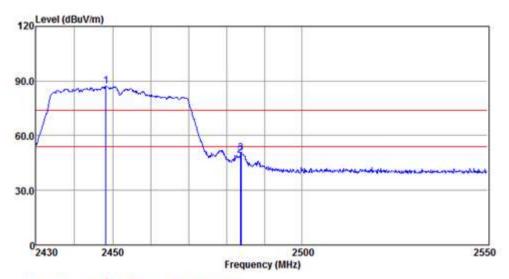
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2388.93	55.99	26.03	6.47	37.36	51.13	54.00	-2.87	Average
2	2390.00	56.52	26.03	6.47	37.36	51.66	54.00	-2.34	Average
3	2419.49	90.82	26.09	6.56	37.38	86.09	54.00	32.09	Average



Report No.: SHEM180500347301

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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



Antenna Polarity : HORIZONTAL

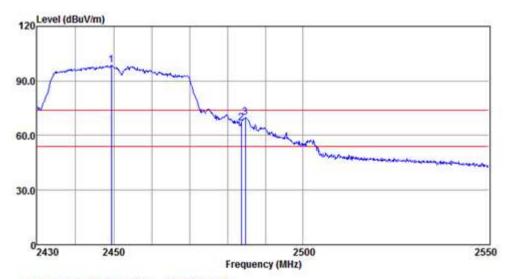
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2448.22	92.01	26.13	6.68	37.43	87.39	74.00	13.39	Peak
2	2483.50	53.50	26.18	6.80	37.51	48.97	74.00	-25.03	Peak
3	2483.76	55.03	26.18	6.80	37.51	50.50	74.00	-23.50	Peak



Report No.: SHEM180500347301

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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



#### Antenna Polarity : VERTICAL

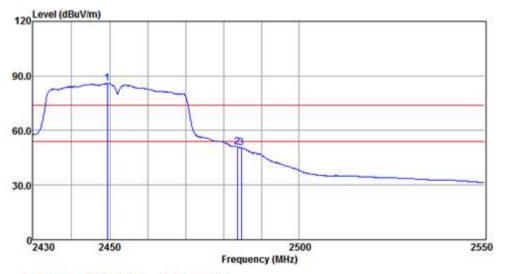
	Freq	Read Level			Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2449.40	103.23	26.13	6.68	37.43	98.61	74.00	24.61	Peak
2	2483.50	71.40	26.18	6.80	37.51	66.87	74.00	-7.13	Peak
3	2484.60	74.31	26.18	6.80	37.51	69.78	74.00	-4.22	Peak



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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



Antenna Polarity : VERTICAL

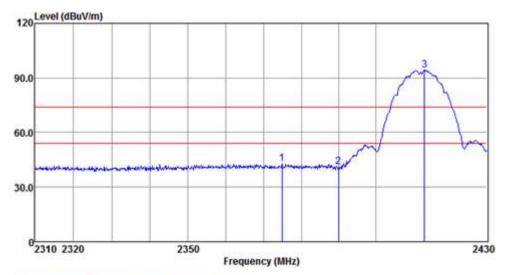
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2449.40	90.55	26.13	6.68	37.43	85.93	54.00	31.93	Average
2	2483.50	55.49	26.18	6.80	37.51	50.96	54.00	-3.04	Average
3	2484.60	55.19	26.18	6.80	37.51	50.66	54.00	-3.34	Average



Report No.: SHEM180500347301

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Mode:d; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

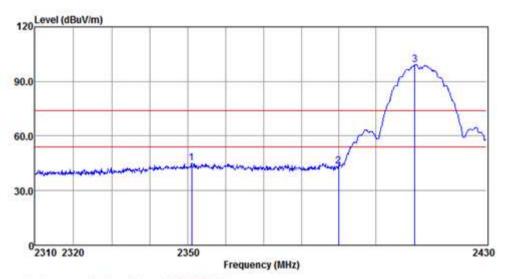
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2374.89	47.79	26.01	6.45	37.36	42.89	74.00	-31.11	Peak
2	2390.00	45.94	26.03	6.47	37.36	41.08	74.00	-32.92	Peak
3	2413.08	98.88	26.08	6.50	37.36	94.10	74.00	20.10	Peak



Report No.: SHEM180500347301

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Mode:d; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

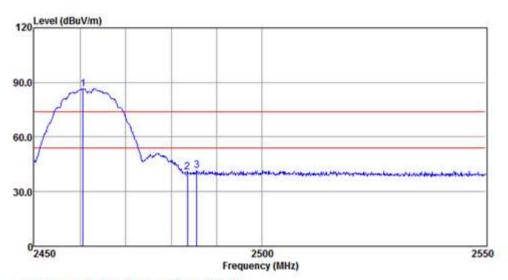
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2350.95	50.07	25.98	6.40	37.36	45.09	74.00	-28.91	Peak
2	2390.00	48.45	26.03	6.47	37.36	43.59	74.00	-30.41	Peak
3	2410.51	103.88	26.06	6.50	37.35	99.09	74.00	25.09	Peak



Report No.: SHEM180500347301

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Mode:d; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

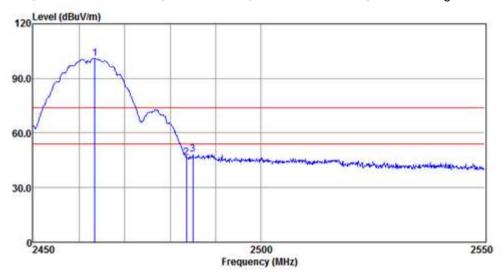
	Freq	Read Level	Antenna Factor		Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2460.61	91.05	26.15	6.68	37.46	86.42	74.00	12.42	Peak
2	2483.50	45.18	26.18	6.80	37.51	40.65	74.00	-33.35	Peak
3	2485.54	46.34	26.18	6.80	37.51	41.81	74.00	-32.19	Peak



Report No.: SHEM180500347301

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Mode:d; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

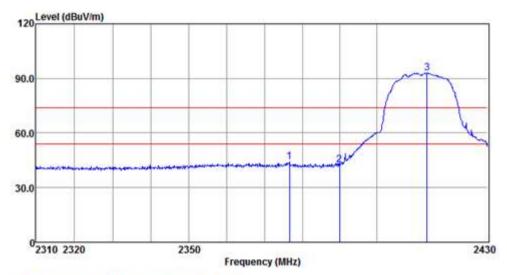
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
							*****		
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2463.47	105.77	26.15	6.68	37.46	101.14	74.00	27.14	Peak
2	2483.50	51.08	26.18	6.80	37.51	46.55	74.00	-27.45	Peak
3	2484.94	52.70	26.18	6.80	37.51	48.17	74.00	-25.83	Peak



Report No.: SHEM180500347301

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Mode:d; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

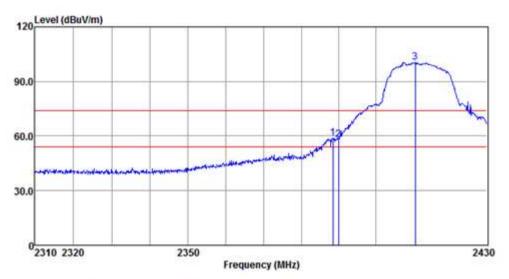
	Freq	Read Level	Antenna Factor	Cable Loss	13.0	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2376.57	49.33	26.01	6.45	37.36	44.43	74.00	-29.57	Peak
2	2390.00	47.20	26.03	6.47	37.36	42.34	74.00	-31.66	Peak
3	2413.57	97.81	26.08	6.50	37.36	93.03	74.00	19.03	Peak



Report No.: SHEM180500347301

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Mode:d; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

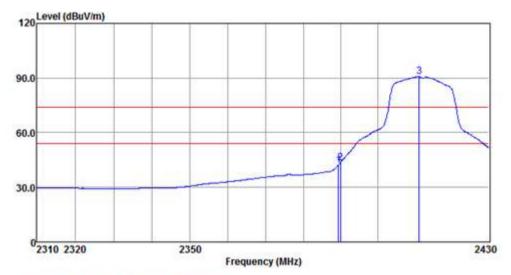
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2388.40	63.78	26.03	6.47	37.36	58.92	74.00	-15.08	Peak
2	2390.00	62.71	26.03	6.47	37.36	57.85	74.00	-16.15	Peak
3	2410.63	105.17	26.06	6.50	37.35	100.38	74.00	26.38	Peak



Report No.: SHEM180500347301

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Mode:d; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

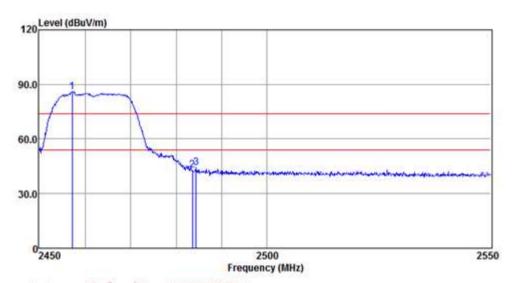
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line		Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2389.36	47.06	26.03	6.47	37.36	42.20	54.00	-11.80	Average
2	2390.00	48.45	26.03	6.47	37.36	43.59	54.00	-10.41	Average
3	2411.12	95.69	26.06	6.50	37.35	90.90	54.00	36.90	Average



Report No.: SHEM180500347301

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Mode:d; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

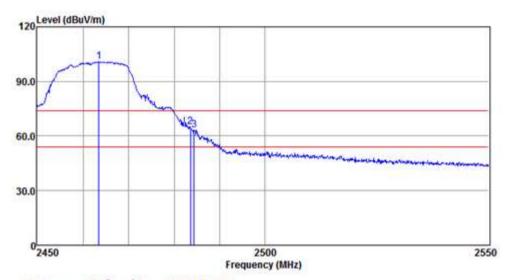
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
				****					
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2457.26	90.75	26.14	6.68	37.45	86.12	74.00	12.12	Peak
2	2483.50	47.39	26.18	6.80	37.51	42.86	74.00	-31.14	Peak
3	2484.35	48.63	26.18	6.80	37.51	44.10	74.00	-29.90	Peak



Report No.: SHEM180500347301

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Mode:d; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



#### Antenna Polarity : VERTICAL

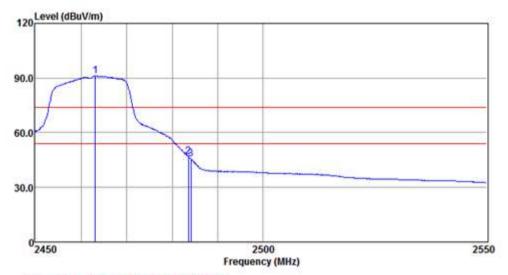
	Freq	Read Level	Antenna Factor			Emission Level	Limit Line		Remark
							*****		
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2463.47	105.50	26.15	6.68	37.46	100.87	74.00	26.87	Peak
2	2483.50	69.54	26.18	6.80	37.51	65.01	74.00	-8.99	Peak
3	2484.35	67.92	26.18	6.80	37.51	63.39	74.00	-10.61	Peak



Report No.: SHEM180500347301

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Mode:d; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

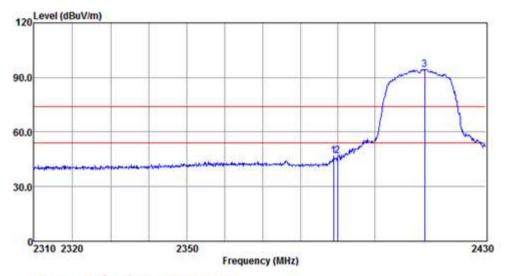
	Freq	Read Level	Antenna Factor		Preamp Factor	Emission Level	Limit Line		Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2463.07	95.78	26.15	6.68	37.46	91.15	54.00	37.15	Average
2	2483.50	51.49	26.18	6.80	37.51	46.96	54.00	-7.04	Average
3	2484.05	50.09	26.18	6.80	37.51	45.56	54.00	-8.44	Average



Report No.: SHEM180500347301

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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

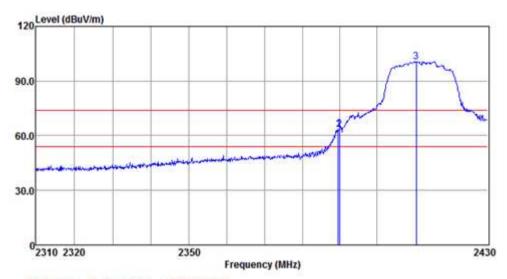
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2388.88	51.77	26.03	6.47	37.36	46.91	74.00	-27.09	Peak
2	2390.00	51.91	26.03	6.47	37.36	47.05	74.00	-26.95	Peak
3	2413.44	99.25	26.08	6.50	37.36	94.47	74.00	20.47	Peak



Report No.: SHEM180500347301

Page: 107 of 140

Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



#### Antenna Polarity : VERTICAL

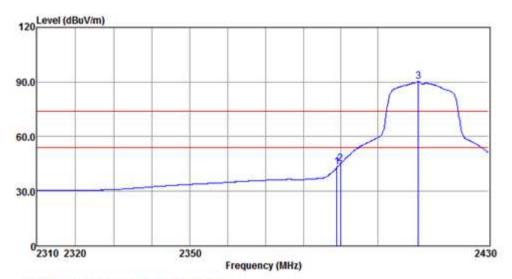
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2389.61	68.51	26.03	6.47	37.36	63.65	74.00	-10.35	Peak
2	2390.00	68.23	26.03	6.47	37.36	63.37	74.00	-10.63	Peak
3	2410.63	105.49	26.06	6.50	37.35	100.70	74.00	26.70	Peak



Report No.: SHEM180500347301

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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



#### Antenna Polarity : VERTICAL

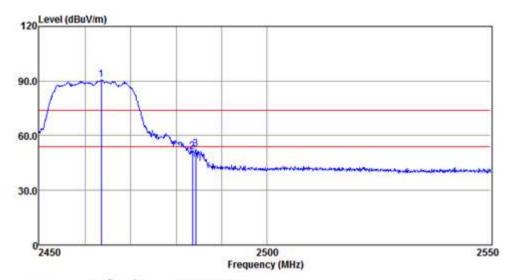
	Freq		Antenna Factor			Emission Level	Limit Line		Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2389.00	48.09	26.03	6.47	37.36	43.23	54.00	-10.77	Average
2	2390.00	50.08	26.03	6.47	37.36	45.22	54.00	-8.78	Average
3	2410.88	95.03	26.06	6.50	37.35	90.24	54.00	36.24	Average



Report No.: SHEM180500347301

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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

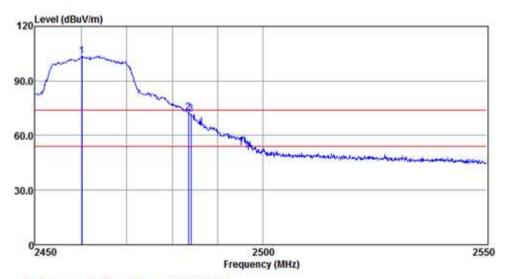
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2463.56	95.34	26.15	6.68	37.46	90.71	74.00	16.71	Peak
2	2483.50	55.80	26.18	6.80	37.51	51.27	74.00	-22.73	Peak
3	2484.25	57.09	26.18	6.80	37.51	52.56	74.00	-21.44	Peak



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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

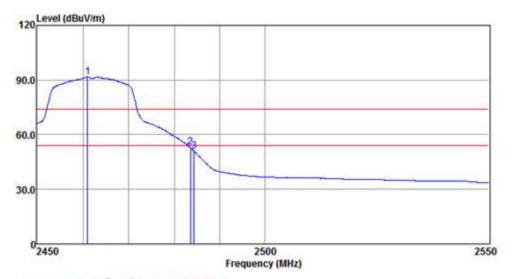
	Freq	Read Level	Antenna Factor			Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2460.22	108.19	26.14	6.68	37.45	103.56	74.00	29.56	Peak
2	2483.50	77.36	26.18	6.80	37.51	72.83	74.00	-1.17	Peak
3	2484.05	76.29	26.18	6.80	37.51	71.76	74.00	-2.24	Peak



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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

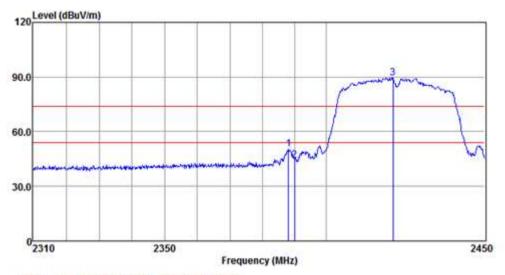
	Freq	Read Level	Antenna Factor		Preamp Factor	Emission Level	Limit Line		Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2461.00	96.35	26.15	6.68	37.46	91.72	54.00	37.72	Average
2	2483.50	57.46	26.18	6.80	37.51	52.93	54.00	-1.07	Average
3	2484.35	55.50	26.18	6.80	37.51	50.97	54.00	-3.03	Average



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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



Antenna Polarity : HORIZONTAL

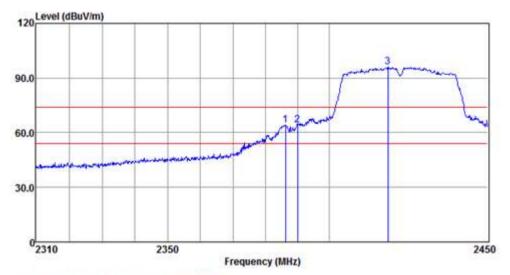
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2388.23	55.56	26.03	6.47	37.36	50.70	74.00	-23.30	Peak
2	2390.00	49.32	26.03	6.47	37.36	44.46	74.00	-29.54	Peak
3	2420.91	94.09	26.09	6.56	37.38	89.36	74.00	15.36	Peak



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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



Antenna Polarity : VERTICAL

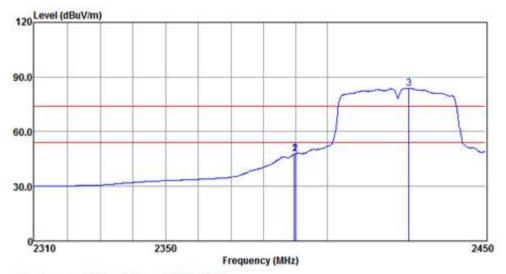
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2386.26	68.92	26.03	6.47	37.36	64.06	74.00	-9.94	Peak
2	2390.00	69.21	26.03	6.47	37.36	64.35	74.00	-9.65	Peak
3	2418.35	100.63	26.09	6.56	37.38	95.90	74.00	21.90	Peak



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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



Antenna Polarity : VERTICAL

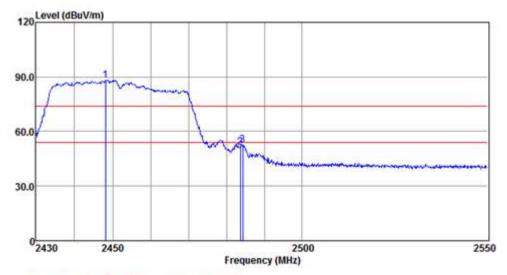
	Freq	Read Level		Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	*****								
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2389.63	52.51	26.03	6.47	37.36	47.65	54.00	-6.35	Average
2	2390.00	52.48	26.03	6.47	37.36	47.62	54.00	-6.38	Average
3	2425.62	88.64	26.10	6.56	37.39	83.91	54.00	29.91	Average



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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



Antenna Polarity : HORIZONTAL

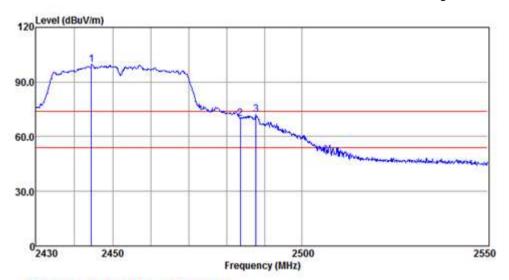
		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2448.11	92.91	26.13	6.68	37.43	88.29	74.00	14.29	Peak
2	2483.50	55.94	26.18	6.80	37.51	51.41	74.00	-22.59	Peak
3	2484.24	57.33	26.18	6.80	37.51	52.80	74.00	-21.20	Peak



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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



Antenna Polarity : VERTICAL

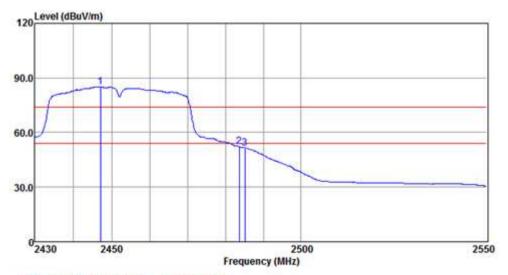
	Freq		Antenna Factor		Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2444.45	104.26	26.12	6.62	37.42	99.58	74.00	25.58	Peak
2	2483.50	74.43	26.18	6.80	37.51	69.90	74.00	-4.10	Peak
3	2487.72	76.90	26.18	6.80	37.51	72.37	74.00	-1.63	Peak



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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



Antenna Polarity : VERTICAL

	Freq	Read Level	Antenna Factor		A CONTRACTOR OF THE PARTY OF TH	Emission Level	Limit Line		Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2447.04	89.81	26.13	6.62	37.43	85.13	54.00	31.13	Average
2	2483.50	56.83	26.18	6.80	37.51	52.30	54.00	-1.70	Average
3	2485.08	56.10	26.18	6.80	37.51	51.57	54.00	-2.43	Average



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#### 7.8 Radiated Spurious Emissions

47 CFR Part 15, Subpart C 15.209 & 15.247(d) **Test Requirement** 

Test Method: ANSI C63.10 (2013) Section 6.10.4

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR guasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

#### 7.8.1 E.U.T. Operation

Operating Environment:

Temperature:

Pretest these

mode to find the worst case:

Humidity: 45 % RH

Atmospheric Pressure: 1010 mbar

a:Engineering Mode 1\_Using test software to control EUT working in continuous transmitting, and select channel and modulation type.(DS-7108NI-K1/W/M by

Adapter 1)

b:Engineering Mode 2 Using test software to control EUT working in continuous transmitting, and select channel and modulation type.(DS-7108NI-K1/W/M by

Adapter 2)

c:Engineering Mode 3 Using test software to control EUT working in continuous transmitting, and select channel and modulation type.(NVR-108MH-D/W by

Adapter 1)

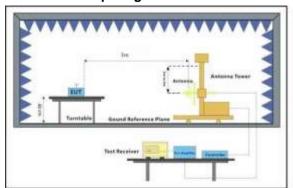
d:Engineering Mode 4\_Using test software to control EUT working in continuous transmitting, and select channel and modulation type.(NVR-108MH-D/W by Adapter 2)

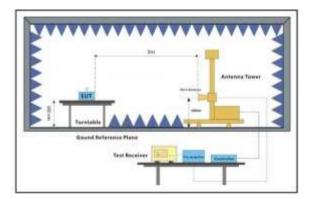


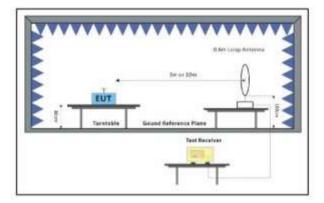
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#### 7.8.2 Test Setup Diagram









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#### 7.8.3 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the 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 the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

#### Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) 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

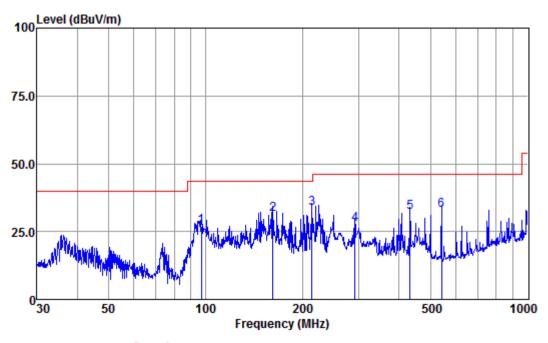
- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4) 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown



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#### Below 1GHz:



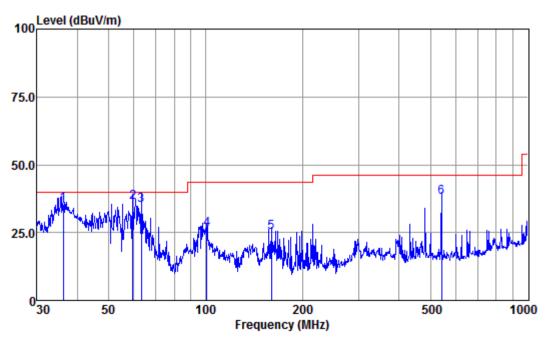
# Antenna Polarity : HORIZONTAL

		Read	Antenna	Cable	Preamp	Emission	n Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	97.11	60.11	9.13	0.44	42.69	26.99	43.50	-16.51	QP
2	162.04	60.49	12.77	0.64	42.59	31.31	43.50	-12.19	QP
3	214.51	65.27	10.06	0.72	42.50	33.55	43.50	-9.95	QP
4	291.04	56.40	12.91	0.83	42.41	27.73	46.00	-18.27	QP
5	432.55	57.21	15.83	1.06	42.11	31.99	46.00	-14.01	QP
6	541.37	55.50	18.17	1.25	42.16	32.76	46.00	-13.24	QP



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# Antenna Polarity : VERTICAL

		Read	Antenna	Cable	Preamp	Emission	n Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	36.25	61.97	15.96	0.21	42.62	35.52	40.00	-4.48	QP
2	59.44	66.17	12.48	0.30	42.65	36.30	40.00	-3.70	QP
3	63.31	65.21	12.19	0.31	42.66	35.05	40.00	-4.95	QP
4	100.93	59.06	9.51	0.46	42.69	26.34	43.50	-17.16	QP
5	160.35	53.86	13.02	0.64	42.59	24.93	43.50	-18.57	QP
6	541.37	60.76	18.17	1.25	42.16	38.02	46.00	-7.98	QP



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Mode:a: Pol:		Horizontal:	Modulation:	h: handwidt	h·20MHz·	Channel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	20100101
4824	44.09	6.40	50.49	54	-3.51	peak
7236	41.42	10.76	52.18	54	-1.82	peak
9648	35.18	14.37	49.55	54	-4.45	peak
3040	33.10	14.57	49.00	34	-4.40	peak
Mode:a; Pola	arization:\	/ertical; M	odulation:b;	bandwidth:2	20MHz; C	hannel:Low
Frequency	$RX_R$	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	40.43	6.40	46.83	54	-7.17	peak
7236	36.52	10.76	47.28	54	-6.72	peak
9648	34.07	14.37	48.44	54	-5.56	peak
						0
						Channel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	40.98	6.92	47.90	54	-6.10	peak
7311	35.45	11.08	46.53	54	-7.47	peak
9748	34.70	14.36	49.06	54	-4.94	peak
Mode:a; Pola	arization:\	/ertical; M	odulation:b;	bandwidth:2	20MHz; C	hannel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	38.96	6.92	45.88	54	-8.12	peak
7311	35.36	11.08	46.44	54	-7.56	peak
9748	31.86	14.36	46.22	54	-7.78	peak
		· ·		· ·	•	Channel:High
	RX_R		Emission		Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	41.59	7.31	48.90	54	-5.10	peak
7386	34.25	11.41	45.66	54	-8.34	peak
9848	34.83	14.38	49.21	54	-4.79	peak
Mode:a; Pola	arization:\	/ertical: M	odulation:b:	bandwidth:2	20MHz: C	hannel:High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	38.56	7.31	45.87	54	-8.13	peak
7386	35.68	11.41	47.09	54	-6.91	peak
9848	31.64	14.38	46.02	54	-7.98	peak
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Mode:a; Pol	arization:F	lorizontal;	Modulation:g	; bandwid	th:20MHz;	Channel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	40.36	6.40	46.76	54	-7.24	peak
7236	37.02	10.76	47.78	54	-6.22	peak
9648	34.76	14.37	49.13	54	-4.87	peak
Modera: Pol	arization:\/	/ertical: M	odulation:g; k	oandwidth:	20MHz· C	hannel·l ow
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	43.51	6.40	49.91	54	-4.09	peak
7236	35.10	10.76	45.86	54	-8.14	peak
9648	37.50	14.37	51.87	54	-2.13	peak
3040	07.00	14.07	01.07	04	2.10	pour
Mode:a; Pol	arization:F	lorizontal;	Modulation:g	; bandwidt	h:20MHz;	Channel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	39.51	6.92	46.43	54	-7.57	peak
7311	35.98	11.08	47.06	54	-6.94	peak
9748	31.38	14.36	45.74	54	-8.26	peak
Modera: Pol	arization:\/	/ertical: M	odulation:a: k	andwidth:	20MHz· C	hannel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	– dBuV	dB	dBuV/m	dBuV/m	dB	
4874	39.97	6.92	46.89	54	-7.11	peak
7311	35.85	11.08	46.93	54	-7.07	peak
9748	35.91	14.36	50.27	54	-3.73	peak
Madasas Dal		lawi-amtal.	Madulations	المناسط المسام		Chanaldligh
Frequency			Emission		Margin	Channel:High Detector
MHz		dB	dBuV/m	dBuV/m	_	Detector
4924	dBuV 43.07	7.31	50.38	ови <i>у</i> /пі 54	dB	pook
					-3.62	peak
7386	35.82	11.41	47.23	54 54	-6.77 5.07	peak
9848	33.75	14.38	48.13	54	-5.87	peak
Mode:a; Pol	arization:\	ertical; M	odulation:g; k	oandwidth:2	20MHz; C	hannel:High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	38.90	7.31	46.21	54	-7.79	peak
7386	37.15	11.41	48.56	54	-5.44	peak
9848	33.68	14.38	48.06	54	-5.94	peak



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Mode:a; Po	larization:F	lorizontal;	Modulation:	n; bandwidt	h:20MHz;	Channel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	43.65	6.40	50.05	54	-3.95	peak
7236	37.12	10.76	47.88	54	-6.12	peak
9648	33.41	14.37	47.78	54	-6.22	peak
Mode:a; Po	larization:\	/ertical; M	odulation:n;	bandwidth:2	20MHz; C	hannel:Low
Frequency	$RX_R$	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	43.32	6.40	49.72	54	-4.28	peak
7236	34.19	10.76	44.95	54	-9.05	peak
9648	36.78	14.37	51.15	54	-2.85	peak
Mode:a; Po	larization:F	lorizontal;	Modulation:	n; bandwidt	h:20MHz;	Channel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	41.99	6.92	48.91	54	-5.09	peak
7311	34.88	11.08	45.96	54	-8.04	peak
9748	36.18	14.36	50.54	54	-3.46	peak
Mode:a; Po	larization:∖	/ertical; M	odulation:n;	bandwidth:2	20MHz; C	hannel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	42.23	6.92	49.15	54	-4.85	peak
7311	38.95	11.08	50.03	54	-3.97	peak
9748	32.76	14.36	47.12	54	-6.88	peak
Mode:a; Po	larization:F	lorizontal;	Modulation:	n; bandwidt	h:20MHz;	Channel:High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	40.93	7.31	48.24	54	-5.76	peak
7386	36.71	11.41	48.12	54	-5.88	peak
9848	31.40	14.38	45.78	54	-8.22	peak
Mode:a; Po	larization:\	/ertical; M	odulation:n;	bandwidth:2	20MHz; C	hannel:High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	42.12	7.31	49.43	54	-4.57	peak
7386	37.38	11.41	48.79	54	-5.21	peak
9848	35.85	14.38	50.23	54	-3.77	peak



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Mode:a; Pol	arization:F	lorizontal;	Modulation:	n; bandwidt	h:40MHz;	Channel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4844	39.33	6.60	45.93	54	-8.07	peak
7266	38.55	10.89	49.44	54	-4.56	peak
9688	30.50	14.35	44.85	54	-9.15	peak
Mode:a; Pol	arization:V	/ertical; M	odulation:n;	bandwidth:4	IOMHz; C	hannel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4844	38.88	6.60	45.48	54	-8.52	peak
7266	35.60	10.89	46.49	54	-7.51	peak
9688	34.83	14.35	49.18	54	-4.82	peak
Modera: Pol	arization·F	łorizontal:	Modulation:	n: handwidt	h·40MHz·	Channel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	43.07	6.92	49.99	54	-4.01	peak
7311	34.86	11.08	45.94	54	-8.06	peak
9748	31.56	14.36	45.92	54	-8.08	peak
Modera: Pol	arization:\/	/ertical: M	odulation:n:	handwidth:4	IOMHz· C	hannel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	41.26	6.92	48.18	54	-5.82	peak
7311	36.06	11.08	47.14	54	-6.86	peak
9748	35.99	14.36	50.35	54	-3.65	peak
Mode:a: Pol	arization·F	lorizontal·	Modulation:	n: bandwidt	h·40MHz·	Channel:High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4904	38.49	7.22	45.71	54	-8.29	peak
7356	37.88	11.28	49.16	54	-4.84	peak
9808	33.73	14.37	48.10	54	-5.90	peak
		/ I B.A				
Mode:a; Pol			odulation:n; Emission			•
Frequency	RX_R	Factor		Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m 54	dB	pools
4904	43.06	7.22	50.28		-3.72	peak
7356	39.22	11.28	50.50	54	-3.50	peak
9808	34.38	14.37	48.75	54	-5.25	peak



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Mode:b; Pol	arization:F	lorizontal;	Modulation:b	o; bandwidt	th:20MHz;	Channel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	43.70	6.40	50.10	54	-3.90	peak
7236	37.75	10.76	48.51	54	-5.49	peak
9648	36.36	14.37	50.73	54	-3.27	peak
Mode:b; Pol	arization:\	ertical; M	odulation:b;	bandwidth:2	20MHz; C	hannel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	40.89	6.40	47.29	54	-6.71	peak
7236	38.01	10.76	48.77	54	-5.23	peak
9648	34.81	14.37	49.18	54	-4.82	peak
Mode:b; Pol	arization:F	lorizontal;	Modulation:k	o; bandwidt	th:20MHz;	Channel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	39.70	6.92	46.62	54	-7.38	peak
7311	36.68	11.08	47.76	54	-6.24	peak
9748	32.61	14.36	46.97	54	-7.03	peak
Mode:b; Pol	arization:\	ertical; M	odulation:b;	bandwidth:2	20MHz; C	hannel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	38.38	6.92	45.30	54	-8.70	peak
7311	36.84	11.08	47.92	54	-6.08	peak
9748	35.41	14.36	49.77	54	-4.23	peak
Mode:b; Pol	arization:F	lorizontal;	Modulation:k	o; bandwidt	th:20MHz;	Channel:High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	40.93	7.31	48.24	54	-5.76	peak
7386	39.34	11.41	50.75	54	-3.25	peak
9848	33.60	14.38	47.98	54	-6.02	peak
Mode:b; Pol	arization:\	ertical; M	odulation:b;	bandwidth:2	20MHz; C	hannel:High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	41.36	7.31	48.67	54	-5.33	peak
7386	38.40	11.41	49.81	54	-4.19	peak
9848	35.96	14.38	50.34	54	-3.66	peak



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Mode:b; Pol	arization:F	lorizontal;	Modulation:	g; bandwidt	h:20MHz;	Channel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	41.65	6.40	48.05	54	-5.95	peak
7236	36.83	10.76	47.59	54	-6.41	peak
9648	32.05	14.37	46.42	54	-7.58	peak
Mode:b; Pol	arization:\	ertical; M	odulation:g;	bandwidth:2	20MHz; C	hannel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	39.77	6.40	46.17	54	-7.83	peak
7236	38.75	10.76	49.51	54	-4.49	peak
9648	30.67	14.37	45.04	54	-8.96	peak
Mode:b; Pol	arization:F	lorizontal;	Modulation:	g; bandwidt	:h:20MHz;	Channel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	38.67	6.92	45.59	54	-8.41	peak
7311	37.52	11.08	48.60	54	-5.40	peak
9748	33.41	14.36	47.77	54	-6.23	peak
Mode:b; Pol	arization:\	ertical; M	odulation:g;	bandwidth:2	20MHz; C	hannel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	42.39	6.92	49.31	54	-4.69	peak
7311	38.94	11.08	50.02	54	-3.98	peak
9748	35.49	14.36	49.85	54	-4.15	peak
Mode:b; Pol	arization:F	lorizontal;	Modulation:	g; bandwidt	:h:20MHz;	Channel:High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	42.25	7.31	49.56	54	-4.44	peak
7386	34.06	11.41	45.47	54	-8.53	peak
9848	32.17	14.38	46.55	54	-7.45	peak
Mode:b; Pol	arization:\	ertical; M	odulation:g;	bandwidth:2	20MHz; C	hannel:High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	39.84	7.31	47.15	54	-6.85	peak
7386	36.61	11.41	48.02	54	-5.98	peak
9848	33.21	14.38	47.59	54	-6.41	peak



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Mode:b; Pol	arization:F	Horizontal;	Modulation:	n; bandwidt	h:20MHz;	Channel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	39.50	6.40	45.90	54	-8.10	peak
7236	37.70	10.76	48.46	54	-5.54	peak
9648	32.09	14.37	46.46	54	-7.54	peak
Mode:b; Pol	arization:\	/ertical; M	odulation:n;	bandwidth:2	20MHz; C	hannel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	40.49	6.40	46.89	54	-7.11	peak
7236	40.34	10.76	51.10	54	-2.90	peak
9648	37.23	14.37	51.60	54	-2.40	peak
Mode:b; Pol	arization:F	Horizontal;	Modulation:	n; bandwidt	h:20MHz;	Channel:middle
Frequency	$RX_R$	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	39.92	6.92	46.84	54	-7.16	peak
7311	39.64	11.08	50.72	54	-3.28	peak
9748	36.00	14.36	50.36	54	-3.64	peak
Mode:b; Pol	arization:\	/ertical; M	odulation:n;	bandwidth:2	20MHz; C	hannel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	43.55	6.92	50.47	54	-3.53	peak
7311	38.92	11.08	50.00	54	-4.00	peak
9748	34.46	14.36	48.82	54	-5.18	peak
Mode:b; Pol	arization:F	Horizontal;	Modulation:	n; bandwidt	h:20MHz;	Channel:High
Frequency	$RX_R$	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	39.96	7.31	47.27	54	-6.73	peak
7386	39.32	11.41	50.73	54	-3.27	peak
9848	35.02	14.38	49.40	54	-4.60	peak
Mode:b; Pol	arization:\	/ertical; M	odulation:n;	bandwidth:2	20MHz; C	hannel:High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	39.83	7.31	47.14	54	-6.86	peak
7386	37.47	11.41	48.88	54	-5.12	peak
9848	36.98	14.38	51.36	54	-2.64	peak



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Mode:b; F	Polarization:F	lorizontal;	Modulation:	n; bandwidt	h:40MHz;	Channel:Low
Frequency	y RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4844	41.83	6.60	48.43	54	-5.57	peak
7266	35.76	10.89	46.65	54	-7.35	peak
9688	34.58	14.35	48.93	54	-5.07	peak
Mode:b; F	Polarization:\	ertical; M	odulation:n;	bandwidth:4	40MHz; CI	nannel:Low
Frequency	y RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4844	39.78	6.60	46.38	54	-7.62	peak
7266	35.10	10.89	45.99	54	-8.01	peak
9688	32.83	14.35	47.18	54	-6.82	peak
Mode:b; F	Polarization:F	lorizontal;	Modulation:	n; bandwidt	h:40MHz;	Channel:middle
Frequency	y RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	42.91	6.92	49.83	54	-4.17	peak
7311	38.32	11.08	49.40	54	-4.60	peak
9748	35.55	14.36	49.91	54	-4.09	peak
Mode:b; F	olarization:\	/ertical; M	odulation:n;	bandwidth:4	40MHz; CI	nannel:middle
Frequency	y RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	43.84	6.92	50.76	54	-3.24	peak
7311	36.57	11.08	47.65	54	-6.35	peak
9748	32.77	14.36	47.13	54	-6.87	peak
Mode:b; F	Polarization:F	lorizontal;	Modulation:	n; bandwidt	h:40MHz;	Channel:High
Frequency	y RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4904	40.65	7.22	47.87	54	-6.13	peak
7356	38.27	11.28	49.55	54	-4.45	peak
9808	33.17	14.37	47.54	54	-6.46	peak
Mode:b; F	olarization:\	/ertical; M	odulation:n;	bandwidth:4	40MHz; CI	nannel:High
Frequency	y RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4904	42.60	7.22	49.82	54	-4.18	peak
7356	35.77	11.28	47.05	54	-6.95	peak
9808	36.15	14.37	50.52	54	-3.48	peak



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Mode:c; Pol	arization:H	Horizontal;	Modulation:b	; bandwidt	h:20MHz;	Channel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	41.05	6.40	47.45	54	-6.55	peak
7236	37.35	10.76	48.11	54	-5.89	peak
9648	37.32	14.37	51.69	54	-2.31	peak
Mode:c; Pol	arization:\	/ertical; M	odulation:b; k	oandwidth:2	20MHz; C	hannel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	40.80	6.40	47.20	54	-6.80	peak
7236	38.48	10.76	49.24	54	-4.76	peak
9648	31.72	14.37	46.09	54	-7.91	peak
Mode:c: Pol	arization:F	Horizontal:	Modulation:b	: bandwidt	h:20MHz:	Channel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	40.50	6.92	47.42	54	-6.58	peak
7311	37.72	11.08	48.80	54	-5.20	peak
9748	32.17	14.36	46.53	54	-7.47	peak
Mode:c: Pol	arization:\	/ertical: M	odulation:b: b	oandwidth:	20MHz: C	hannel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	40.00	6.92	46.92	54	-7.08	peak
7311	35.01	11.08	46.09	54	-7.91	peak
9748	36.76	14.36	51.12	54	-2.88	peak
Mode:c: Pol	arization:F	Horizontal:	Modulation:b	: bandwidt	h:20MHz:	Channel:High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	38.84	7.31	46.15	54	-7.85	peak
7386	38.64	11.41	50.05	54	-3.95	peak
9848	36.88	14.38	51.26	54	-2.74	peak
Moderc: Pol	arization:\	/ertical: M	odulation:b; k	nandwidth:	OMHz· C	hannel:High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	- · <del>- · - ·</del>
4924	42.62	7.31	49.93	54	-4.07	peak
7386	35.24	11.41	46.65	54	-7.35	peak
9848	34.09	14.38	48.47	54	-5.53	peak
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Mode:c; Pola	arization:F	Horizontal;	Modulation:	g; bandwidt	h:20MHz;	Channel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	42.71	6.40	49.11	54	-4.89	peak
7236	40.37	10.76	51.13	54	-2.87	peak
9648	33.33	14.37	47.70	54	-6.30	peak
Mode:c; Pol	arization:\	/ertical; M	odulation:g;	bandwidth:2	20MHz; C	hannel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	40.36	6.40	46.76	54	-7.24	peak
7236	35.77	10.76	46.53	54	-7.47	peak
9648	34.42	14.37	48.79	54	-5.21	peak
Mode:c; Pol	arization:F	Horizontal;	Modulation:	g; bandwidt	h:20MHz;	Channel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	40.48	6.92	47.40	54	-6.60	peak
7311	36.66	11.08	47.74	54	-6.26	peak
9748	32.18	14.36	46.54	54	-7.46	peak
Mode:c; Pol	arization:\	/ertical; M	odulation:g;	bandwidth:2	OMHz; C	hannel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	38.81	6.92	45.73	54	-8.27	peak
7311	35.09	11.08	46.17	54	-7.83	peak
9748	31.85	14.36	46.21	54	-7.79	peak
Mode:c; Pol	arization:F	Horizontal;	Modulation:	g; bandwidt	h:20MHz;	Channel:High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	38.00	7.31	45.31	54	-8.69	peak
7386	38.59	11.41	50.00	54	-4.00	peak
9848	36.26	14.38	50.64	54	-3.36	peak
Mode:c; Pol	arization:\	/ertical; M	odulation:g;	bandwidth:2	20MHz; C	hannel:High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	42.64	7.31	49.95	54	-4.05	peak
7386	35.99	11.41	47.40	54	-6.60	peak
9848	33.58	14.38	47.96	54	-6.04	peak



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Mode:c; Pola	arization:H	Horizontal;	Modulation:n	ı; bandwidt	h:20MHz;	Channel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	40.96	6.40	47.36	54	-6.64	peak
7236	35.69	10.76	46.45	54	-7.55	peak
9648	31.44	14.37	45.81	54	-8.19	peak
Modera: Pol	arization:\	/ortical: M	odulation:n; I	andwidth:	OMH C	hannal:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
4824	43.32	6.40	49.72	54	-4.28	poak
						peak
7236	38.52	10.76	49.28	54	-4.72	peak
9648	34.10	14.37	48.47	54	-5.53	peak
Mode:c; Pola	arization:H	Horizontal;	Modulation:n	; bandwidt	:h:20MHz;	Channel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	42.08	6.92	49.00	54	-5.00	peak
7311	39.90	11.08	50.98	54	-3.02	peak
9748	32.86	14.36	47.22	54	-6.78	peak
Madaya, Dak	orization.\	/ortical M	odulotionum. I	o o o duvidthu		hannalimiddla
Frequency	RX_R	Factor	Emission	Dandwidin.⊿ Limit	Margin	hannel:middle Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
						n a a le
4874	41.83	6.92	48.75	54	-5.25	peak
7311	36.33	11.08	47.41	54	-6.59	peak
9748	35.18	14.36	49.54	54	-4.46	peak
Mode:c; Pola	arization:H	Horizontal;	Modulation:n	ı; bandwidt	:h:20MHz;	Channel:High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	39.17	7.31	46.48	54	-7.52	peak
7386	37.09	11.41	48.50	54	-5.50	peak
9848	34.17	14.38	48.55	54	-5.45	peak
Madaya, Dak	- vi ati a m · \	/antiaal. M	adulatianus l		20MH C	المسمول المسمو
	RX_R	Factor	odulation:n; I Emission	Limit	∠∪wnz, C Margin	Detector
Frequency MHz					dB	Detector
	dBuV	dB	dBuV/m	dBuV/m		nool:
4924	39.62	7.31	46.93	54	-7.07	peak
7386	36.23	11.41	47.64	54	-6.36	peak
9848	34.82	14.38	49.20	54	-4.80	peak



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Mode:c; Pol	arization:F	lorizontal;	Modulation:n	ı; bandwidt	h:40MHz;	Channel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4844	40.66	6.60	47.26	54	-6.74	peak
7266	38.41	10.89	49.30	54	-4.70	peak
9688	32.83	14.35	47.18	54	-6.82	peak
Mode:c; Pol	arization:\	ertical; M	odulation:n; I	oandwidth:	40MHz; C	hannel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4844	39.97	6.60	46.57	54	-7.43	peak
7266	38.98	10.89	49.87	54	-4.13	peak
9688	31.69	14.35	46.04	54	-7.96	peak
Mode:c; Pol	arization:F	lorizontal;	Modulation:n	ı; bandwidt	h:40MHz;	Channel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	43.38	6.92	50.30	54	-3.70	peak
7311	38.97	11.08	50.05	54	-3.95	peak
9748	31.70	14.36	46.06	54	-7.94	peak
Mode:c; Pol	arization:\	/ertical; M	odulation:n; ł	oandwidth:	40MHz; C	hannel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	41.01	6.92	47.93	54	-6.07	peak
7311	34.88	11.08	45.96	54	-8.04	peak
9748	36.75	14.36	51.11	54	-2.89	peak
Mode:c; Pol	arization:F	lorizontal;	Modulation:n	ı; bandwidt	h:40MHz;	Channel:High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4904	38.51	7.22	45.73	54	-8.27	peak
7356	34.49	11.28	45.77	54	-8.23	peak
9808	31.49	14.37	45.86	54	-8.14	peak
Mode:c; Pol	arization:\	/ertical; M	odulation:n; I	oandwidth:	40MHz; C	hannel:High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4904	41.33	7.22	48.55	54	-5.45	peak
7356	36.96	11.28	48.24	54	-5.76	peak
9808	32.28	14.37	46.65	54	-7.35	peak



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_	Polarization:H	orizontal;	Modulation:b;	; bandwid	th:20MHz;	Channel:Low
Frequenc	y RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	39.72	6.40	46.12	54	-7.88	peak
7236	39.67	10.76	50.43	54	-3.57	peak
9648	36.19	14.37	50.56	54	-3.44	peak
Moderd: F	Polarization:V	ertical· M	odulation:b; b	andwidth:	20MHz· Cl	hannel·l ow
Frequenc		Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	41.26	6.40	47.66	54	-6.34	peak
7236	37.52	10.76	48.28	54	-5.72	peak
9648	32.13	14.37	46.50	54	-7.50	peak
						•
						Channel:middle
Frequenc	•	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	41.27	6.92	48.19	54	-5.81	peak
7311	38.48	11.08	49.56	54	-4.44	peak
9748	35.68	14.36	50.04	54	-3.96	peak
Mode:d; F	Polarization:V	ertical; M	odulation:b; b	andwidth:	20MHz; Cl	hannel:middle
Frequenc	y RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	42.94	6.92	49.86	54	-4.14	peak
4874 7311	42.94 34.27	6.92 11.08	49.86 45.35	54 54	-4.14 -8.65	peak peak
						•
7311 9748	34.27 33.39	11.08 14.36	45.35 47.75	54 54	-8.65 -6.25	peak peak
7311 9748 Mode:d; F	34.27 33.39 Polarization:H	11.08 14.36 orizontal;	45.35 47.75 Modulation:b;	54 54 bandwid	-8.65 -6.25 th:20MHz;	peak
7311 9748	34.27 33.39 Polarization:H	11.08 14.36 orizontal; Factor	45.35 47.75 Modulation:b; Emission	54 54 ; bandwid Limit	-8.65 -6.25 th:20MHz; Margin	peak peak Channel:High
7311 9748 Mode:d; F Frequence MHz	34.27 33.39 Polarization:H y RX_R dBuV	11.08 14.36 orizontal; Factor dB	45.35 47.75 Modulation:b;	54 54 bandwid	-8.65 -6.25 th:20MHz; Margin dB	peak peak Channel:High Detector
7311 9748 Mode:d; F Frequence MHz 4924	34.27 33.39 Polarization:H by RX_R dBuV 42.73	11.08 14.36 orizontal; Factor dB 7.31	45.35 47.75 Modulation:b; Emission dBuV/m 50.04	54 54 bandwid Limit dBuV/m 54	-8.65 -6.25 th:20MHz; Margin dB -3.96	peak peak Channel:High Detector peak
7311 9748 Mode:d; F Frequence MHz	34.27 33.39 Polarization:H y RX_R dBuV	11.08 14.36 orizontal; Factor dB	45.35 47.75 Modulation:b; Emission dBuV/m	54 54 bandwid Limit dBuV/m	-8.65 -6.25 th:20MHz; Margin dB	peak peak Channel:High Detector
7311 9748 Mode:d; F Frequence MHz 4924 7386 9848	34.27 33.39 Polarization:Hey RX_R dBuV 42.73 36.79 31.48	11.08 14.36 orizontal; Factor dB 7.31 11.41 14.38	45.35 47.75 Modulation:b; Emission dBuV/m 50.04 48.20 45.86	54 54 bandwid Limit dBuV/m 54 54 54	-8.65 -6.25 th:20MHz; Margin dB -3.96 -5.80 -8.14	peak peak Channel:High Detector  peak peak peak peak
7311 9748 Mode:d; F Frequence MHz 4924 7386 9848 Mode:d; F	34.27 33.39 Polarization:Hey RX_R dBuV 42.73 36.79 31.48	11.08 14.36 orizontal; Factor dB 7.31 11.41 14.38 ertical; M	45.35 47.75 Modulation:b; Emission dBuV/m 50.04 48.20 45.86 odulation:b; b	54 54 bandwid Limit dBuV/m 54 54 54 sandwidth:	-8.65 -6.25 th:20MHz; Margin dB -3.96 -5.80 -8.14	peak peak Channel:High Detector  peak peak peak peak hannel:High
7311 9748 Mode:d; F Frequence MHz 4924 7386 9848 Mode:d; F Frequence	34.27 33.39 Polarization:Hey RX_R dBuV 42.73 36.79 31.48 Polarization:Vey RX_R	11.08 14.36 orizontal; Factor dB 7.31 11.41 14.38 ertical; M Factor	45.35 47.75 Modulation:b; Emission dBuV/m 50.04 48.20 45.86 odulation:b; b Emission	54 54 bandwid Limit dBuV/m 54 54 54 candwidth:	-8.65 -6.25 th:20MHz; Margin dB -3.96 -5.80 -8.14 20MHz; Cl Margin	peak peak Channel:High Detector  peak peak peak peak
7311 9748 Mode:d; F Frequence MHz 4924 7386 9848 Mode:d; F Frequence MHz	34.27 33.39 Polarization:Hey RX_R dBuV 42.73 36.79 31.48 Polarization:Vey RX_R dBuV	11.08 14.36 orizontal; Factor dB 7.31 11.41 14.38 ertical; M Factor dB	45.35 47.75 Modulation:b; Emission dBuV/m 50.04 48.20 45.86 odulation:b; b Emission dBuV/m	54 54 bandwid Limit dBuV/m 54 54 54 candwidth:: Limit dBuV/m	-8.65 -6.25 th:20MHz; Margin dB -3.96 -5.80 -8.14 20MHz; Cl Margin dB	peak peak Channel:High Detector  peak peak peak peak hannel:High Detector
7311 9748 Mode:d; F Frequence MHz 4924 7386 9848 Mode:d; F Frequence MHz 4924	34.27 33.39 Polarization:Hey RX_R dBuV 42.73 36.79 31.48 Polarization:Vey RX_R dBuV 41.34	11.08 14.36  orizontal; Factor dB 7.31 11.41 14.38  ertical; M Factor dB 7.31	45.35 47.75 Modulation:b; Emission dBuV/m 50.04 48.20 45.86 odulation:b; b Emission dBuV/m 48.65	54 54 bandwid Limit dBuV/m 54 54 54 candwidth:: Limit dBuV/m 54	-8.65 -6.25 th:20MHz; Margin dB -3.96 -5.80 -8.14 20MHz; Cl Margin dB -5.35	peak peak Channel:High Detector  peak peak peak peak hannel:High Detector
7311 9748 Mode:d; F Frequence MHz 4924 7386 9848 Mode:d; F Frequence MHz	34.27 33.39 Polarization:Hey RX_R dBuV 42.73 36.79 31.48 Polarization:Vey RX_R dBuV	11.08 14.36 orizontal; Factor dB 7.31 11.41 14.38 ertical; M Factor dB	45.35 47.75 Modulation:b; Emission dBuV/m 50.04 48.20 45.86 odulation:b; b Emission dBuV/m	54 54 bandwid Limit dBuV/m 54 54 54 candwidth:: Limit dBuV/m	-8.65 -6.25 th:20MHz; Margin dB -3.96 -5.80 -8.14 20MHz; Cl Margin dB	peak peak Channel:High Detector  peak peak peak peak hannel:High Detector



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	Polarization:H	lorizontal;	Modulation:g;	; bandwid	th:20MHz;	Channel:Low
Frequenc	y RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	39.69	6.40	46.09	54	-7.91	peak
7236	41.25	10.76	52.01	54	-1.99	peak
9648	36.02	14.37	50.39	54	-3.61	peak
Mode:d: F	Polarization:V	ertical: M	odulation:g; b	andwidth:	20MHz: C	hannel:Low
Frequenc		Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	42.63	6.40	49.03	54	-4.97	peak
7236	35.80	10.76	46.56	54	-7.44	peak
9648	33.20	14.37	47.57	54	-6.43	peak
Madaid: [	Polorizotion:⊔	lorizontol:	Modulation	. handwid	th:201/14-	Channalimiddla
Frequenc		Factor	Emission	, bandwid Limit	m.∠olvi⊓∠, Margin	Channel:middle Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
4874	38.45	6.92	45.37	54	-8.63	pook
						peak
7311	36.60	11.08	47.68	54	-6.32	peak
9748	35.78	14.36	50.14	54	-3.86	peak
Mode:d; F	Polarization:V	ertical; M	odulation:g; b	andwidth:	20MHz; C	hannel:middle
Frequenc	y RX_R	Factor	Emission	Limit	Margin	Detector
		-ID	dBuV/m	dBuV/m	dB	
MHz	dBuV	dB				
MHz 4874	dBuV 43.02	ав 6.92	49.94	54	-4.06	peak
				54 54	-4.06 -6.85	peak peak
4874	43.02	6.92	49.94			•
4874 7311 9748	43.02 36.07 35.66	6.92 11.08 14.36	49.94 47.15 50.02	54 54	-6.85 -3.98	peak peak
4874 7311 9748 Mode:d; F	43.02 36.07 35.66 Polarization:H	6.92 11.08 14.36 lorizontal;	49.94 47.15 50.02 Modulation:g;	54 54 bandwid	-6.85 -3.98 th:20MHz;	peak
4874 7311 9748 Mode:d; F Frequence	43.02 36.07 35.66 Polarization:H	6.92 11.08 14.36 lorizontal; Factor	49.94 47.15 50.02 Modulation:g; Emission	54 54 ; bandwid Limit	-6.85 -3.98 th:20MHz; Margin	peak peak Channel:High
4874 7311 9748 Mode:d; F Frequenc MHz	43.02 36.07 35.66 Polarization:H y RX_R dBuV	6.92 11.08 14.36 lorizontal; Factor dB	49.94 47.15 50.02 Modulation:g; Emission dBuV/m	54 54 bandwid Limit dBuV/m	-6.85 -3.98 th:20MHz; Margin dB	peak peak Channel:High Detector
4874 7311 9748 Mode:d; F Frequence MHz 4924	43.02 36.07 35.66 Polarization:H y RX_R dBuV 38.96	6.92 11.08 14.36 lorizontal; Factor dB 7.31	49.94 47.15 50.02 Modulation:g; Emission dBuV/m 46.27	54 54 bandwid Limit dBuV/m 54	-6.85 -3.98 th:20MHz; Margin dB -7.73	peak peak Channel:High Detector peak
4874 7311 9748 Mode:d; F Frequenc MHz	43.02 36.07 35.66 Polarization:H y RX_R dBuV	6.92 11.08 14.36 lorizontal; Factor dB	49.94 47.15 50.02 Modulation:g; Emission dBuV/m	54 54 bandwid Limit dBuV/m	-6.85 -3.98 th:20MHz; Margin dB	peak peak Channel:High Detector
4874 7311 9748 Mode:d; F Frequenc MHz 4924 7386 9848	43.02 36.07 35.66 Polarization:Hy RX_R dBuV 38.96 36.30 33.49	6.92 11.08 14.36 lorizontal; Factor dB 7.31 11.41 14.38	49.94 47.15 50.02 Modulation:g; Emission dBuV/m 46.27 47.71 47.87	54 54 bandwid Limit dBuV/m 54 54 54	-6.85 -3.98 th:20MHz; Margin dB -7.73 -6.29 -6.13	peak peak Channel:High Detector  peak peak peak peak
4874 7311 9748 Mode:d; F Frequence MHz 4924 7386 9848 Mode:d; F	43.02 36.07 35.66 Polarization:Hy RX_R dBuV 38.96 36.30 33.49	6.92 11.08 14.36 lorizontal; Factor dB 7.31 11.41 14.38	49.94 47.15 50.02 Modulation:g; Emission dBuV/m 46.27 47.71 47.87	54 54 bandwid Limit dBuV/m 54 54 54 sandwidth:	-6.85 -3.98 th:20MHz; Margin dB -7.73 -6.29 -6.13	peak peak Channel:High Detector  peak peak peak peak hannel:High
4874 7311 9748 Mode:d; F Frequence MHz 4924 7386 9848 Mode:d; F Frequence	43.02 36.07 35.66 Polarization:Hy RX_R dBuV 38.96 36.30 33.49 Polarization:Vy RX_R	6.92 11.08 14.36 lorizontal; Factor dB 7.31 11.41 14.38	49.94 47.15 50.02 Modulation:g; Emission dBuV/m 46.27 47.71 47.87 odulation:g; b Emission	54 54 bandwid Limit dBuV/m 54 54 54 candwidth:	-6.85 -3.98 th:20MHz; Margin dB -7.73 -6.29 -6.13 20MHz; Ci Margin	peak peak Channel:High Detector  peak peak peak peak
4874 7311 9748 Mode:d; F Frequence MHz 4924 7386 9848 Mode:d; F Frequence MHz	43.02 36.07 35.66 Polarization:Hy RX_R dBuV 38.96 36.30 33.49 Polarization:Vy RX_R dBuV	6.92 11.08 14.36  lorizontal; Factor dB 7.31 11.41 14.38  rertical; Margareta	49.94 47.15 50.02  Modulation:g; Emission dBuV/m 46.27 47.71 47.87  odulation:g; b Emission dBuV/m	54 54 bandwid Limit dBuV/m 54 54 54 candwidth:: Limit dBuV/m	-6.85 -3.98 th:20MHz; Margin dB -7.73 -6.29 -6.13 20MHz; Ci Margin dB	peak peak Channel:High Detector  peak peak peak peak hannel:High Detector
4874 7311 9748 Mode:d; F Frequence MHz 4924 7386 9848 Mode:d; F Frequence MHz 4924	43.02 36.07 35.66 Polarization:Hy RX_R dBuV 38.96 36.30 33.49 Polarization:Vy RX_R dBuV 40.57	6.92 11.08 14.36 lorizontal; Factor dB 7.31 11.41 14.38 lertical; Me Factor dB 7.31	49.94 47.15 50.02  Modulation:g; Emission dBuV/m 46.27 47.71 47.87  odulation:g; b Emission dBuV/m 47.88	54 54 bandwid Limit dBuV/m 54 54 54 candwidth:: Limit dBuV/m 54	-6.85 -3.98 th:20MHz; Margin dB -7.73 -6.29 -6.13 20MHz; Ci Margin dB -6.12	peak peak Channel:High Detector  peak peak peak peak hannel:High Detector
4874 7311 9748 Mode:d; F Frequence MHz 4924 7386 9848 Mode:d; F Frequence MHz	43.02 36.07 35.66 Polarization:Hy RX_R dBuV 38.96 36.30 33.49 Polarization:Vy RX_R dBuV	6.92 11.08 14.36  lorizontal; Factor dB 7.31 11.41 14.38  rertical; Margareta	49.94 47.15 50.02  Modulation:g; Emission dBuV/m 46.27 47.71 47.87  odulation:g; b Emission dBuV/m	54 54 bandwid Limit dBuV/m 54 54 54 candwidth:: Limit dBuV/m	-6.85 -3.98 th:20MHz; Margin dB -7.73 -6.29 -6.13 20MHz; Ci Margin dB	peak peak Channel:High Detector  peak peak peak peak hannel:High Detector



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Mode:d; Po	olarization:H	orizontal;	Modulation:	n; bandwidt	h:20MHz;	Channel:Low
Frequency	$RX_R$	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	43.74	6.40	50.14	54	-3.86	peak
7236	39.63	10.76	50.39	54	-3.61	peak
9648	30.88	14.37	45.25	54	-8.75	peak
Mode:d: Po	olarization:V	ertical· M	odulation:n;	handwidth:2	OMHz: CI	nannel·l ow
Frequency		Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	41.93	6.40	48.33	54	-5.67	peak
7236	37.80	10.76	48.56	54	-5.44	peak
9648	36.10	14.37	50.47	54	-3.53	peak
3040	30.10	14.57	30.47	34	-5.55	реак
Mode:d; Po	olarization:H	orizontal;	Modulation:	n; bandwidt	h:20MHz;	Channel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	40.54	6.92	47.46	54	-6.54	peak
7311	38.09	11.08	49.17	54	-4.83	peak
9748	32.66	14.36	47.02	54	-6.98	peak
Mode:d: Po	olarization:V	ertical: M	odulation:n:	bandwidth:2	20MHz: CI	nannel:middle
Frequency		Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	39.39	6.92	46.31	54	-7.69	peak
7311	34.98	11.08	46.06	54	-7.94	peak
9748	36.49	14.36	50.85	54	-3.15	peak
Mode:d: Po	olarization:H	orizontal:	Modulation:	n: handwidt	h·20MHz·	Channel:High
Frequency		Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	40.32	7.31	47.63	54	-6.37	peak
7386	36.36	11.41	47.77	54	-6.23	peak
9848	33.67	14.38	48.05	54	-5.95	peak
Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High						
Frequency		Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Delector
						neek
4924	38.33	7.31	45.64	54 54	-8.36 5.40	peak
7386	37.11 32.37	11.41 14.38	48.52 46.75	54	-5.48	peak
9848	つつ ワフ			54	-7.25	peak



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Mode:d; Pol	arization:F	lorizontal;	Modulation:r	n; bandwidt	h:40MHz;	Channel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4844	38.30	6.60	44.90	54	-9.10	peak
7266	34.31	10.89	45.20	54	-8.80	peak
9688	31.48	14.35	45.83	54	-8.17	peak
Mode:d; Pol	arization:\	/ertical; M	odulation:n;	bandwidth:4	40MHz; CI	hannel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4844	41.03	6.60	47.63	54	-6.37	peak
7266	37.10	10.89	47.99	54	-6.01	peak
9688	31.37	14.35	45.72	54	-8.28	peak
Modord: Pol	arization:L	larizantal:	Modulation:	· bandwidt	h·4∩N1∐	Channel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
						mank
4874	40.17	6.92	47.09	54	-6.91 -7.07	peak
7311	34.95	11.08	46.03	54	-7.97	peak
9748	31.34	14.36	45.70	54	-8.30	peak
Mode:d; Pol	arization:\	ertical; M	odulation:n;	bandwidth:4	10MHz; CI	hannel:middle
Frequency	$RX_R$	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	38.33	6.92	45.25	54	-8.75	peak
7311	39.79	11.08	50.87	54	-3.13	peak
9748	33.38	14.36	47.74	54	-6.26	peak
Mode:d: Pol	arization:F	lorizontal:	Modulation:r	n: bandwidt	h:40MHz:	Channel:High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4904	41.41	7.22	48.63	54	-5.37	peak
7356	39.62	11.28	50.90	54	-3.10	peak
9808	31.95	14.37	46.32	54	-7.68	peak
Mode:d; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High						
						_
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4904	43.20	7.22	50.42	54	-3.58	peak
7356	36.81	11.28	48.09	54	-5.91	peak
9808	34.41	14.37	48.78	54	-5.22	peak



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#### 7.9 99% Bandwidth

Test Requirement RSS-Gen Section 6.6
Test Method: ANSI C63.10 Section 6.9.3

#### 7.9.1 E.U.T. Operation

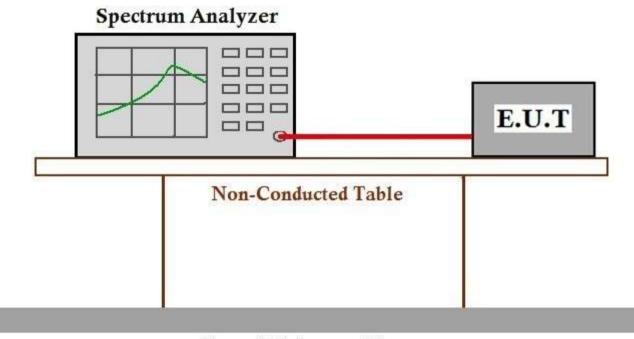
Operating Environment:

Temperature: 21 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar Test mode a:Engineering Mode 1 Using test software to control EUT working in continuous

a:Engineering Mode 1\_Using test software to control EUT working in continuous transmitting, and select channel and modulation type.(DS-7108NI-K1/W/M by

Adapter 1)

#### 7.9.2 Test Setup Diagram



#### Ground Reference Plane

#### 7.9.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM180500347301



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# 8 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

# 9 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

- End of the Report -