

Report No.: ZR/2019/A003203 Page: 1 of 74

FCC TEST REPORT

Application No:	ZR/2019/A0032	
Applicant:	Lenovo(Shanghai) Electronics Technology Co., Ltd.	
Address of Applicant	Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone	
Manufacturer:	Lenovo PC HK Limited	
Address of Manufacturer	23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong P.R.China	
Factory:	MOTOROLA (WUHAN) MOBILITY TECHNOLOGIES COMMNICATION CO. LTD.	
Address of Factory	19 GAOXIN 4TH RD, EAST LAKE HIGH TECH ZONE, WUHAN HUBEI CHINA	
EUT Description: Portable Tablet Computer		
Model No.:	Lenovo TB-X606X	
Trade Mark:	Lenovo	
FCC ID:	O57TBX606X	
Standards:	47 CFR FCC Part 2, Subpart J	
	47 CFR Part 15, Subpart C	
Test Method	KDB558074 D01 15.247 Meas Guidance v05r02	
	ANSI C63.10 (2013)	
Date of Receipt:	2019/11/9	
Date of Test:	2019/11/10 to 2019/12/13	
Date of Issue:	2019/12/13	
Test Result:	PASS *	

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

Authorized Signature:

Derde yang

Derek Yang Wireless Laboratory Manager



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1 Version

Revision Record					
Version Chapter Date Modifier Remark					
00		2019/12/13		Original	

Authorized for issue by:		
Tested By	Mike Mu	2019/12/13
	(Mike Hu) /Project Engineer	Date
Checked By	David Chen	2019/12/13
	(David Chen) /Reviewer	Date

Remark:

There difference between Lenovo CT-X636F and Lenovo CT-X636X,

They are only difference on BOM and Software:

Lenovo TB-X606F is lack some components for GSM/WCDMA/LTE, and change software to disable GSM/WCDMA/LTE function.

According to the difference above, only Conducted Output Power, AC Power Line Conducted Emissions, Unwanted Emissions that fall Outside of the Restricted Bands(Radiated), Unwanted Emissions in the Restricted Bands (Radiated) were tested on Lenovo TB-X606X, other data were copied from the report of Lenovo TB-X606F(Report No.: ZR/2019/A002604).



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2 Test Summary

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Test Item	Test Requirement	Test method	Test Result	Result
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013	Clause 4.2	PASS
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013	Clause 4.3	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013	Clause 4.4	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013	Clause 4.5	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.6	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.7	PASS
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10 2013	Clause 4.8	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10 2013	Clause 4.9	PASS



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6		
7		
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3 General Information

3.1 Client Information

Applicant:	Lenovo(Shanghai) Electronics Technology Co., Ltd.	
Address of Applicant:	Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone	
Manufacturer:	Lenovo PC HK Limited	
Address of Manufacturer:	23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong P.R.China	
Factory:	MOTOROLA (WUHAN) MOBILITY TECHNOLOGIES COMMNICATION CO. LTD.	
Address of Factory:	19 GAOXIN 4TH RD, EAST LAKE HIGH TECH ZONE, WUHAN HUBEI CHINA	

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China
Post code:	518057
Telephone:	+86 (0) 755 2601 2053
Fax:	+86 (0) 755 2671 0594
E-mail:	ee.shenzhen@sgs.com

3.3 Test Facility

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

• CNAS (No. ČNAS L2929)

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

• A2LA (Certificate No. 3816.01)

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

• VCCI

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

• FCC –Designation Number: CN1178

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

Designation Number: CN1178. Test Firm Registration Number: 406779.

Industry Canada (IC)

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



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3.4 General Description of EUT

EUT Description:	Portable Tablet Computer	
Model No.:	Lenovo TB-X606X	
Trade Mark:	Lenovo	
Hardware Version:	Lenovo Tablet TB-X606X	
Software Version:	TB-X606X_RF01_191127	
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 2 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 39.	
Bluetooth Version:	Bluetooth V5.0 LE	
Modulation Type:	GFSK	
Number of Channel:	40	
Sample Type:	⊠ Portable Device, □Module	
Antenna Type:	🗌 External, 🖾 Integrated	
Antenna Gain:	0.43dBi	
Power Supply:	☐ AC/DC Adapter; ⊠ Battery; ☐ PoE:; ☐ Other:	

	Operation Frequency of each channel						
Channel	Channel Frequency Channel Frequency Channel Frequency				Channel	Frequency	
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

Remark:

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

Channel	Frequency
The lowest channel (CH0)	2402MHz
The middle channel (CH19)	2440MHz
The highest channel (CH39)	2480MHz



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3.5 Test Environment

Operating Environment		
Temperature: 25.0 °C		
Humidity:	50 % RH	
Atmospheric Pressure:	101.32 KPa	

3.6 Description of Support Units

The EUT has been tested independent unit.

4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:47 CFR Part 15C Section 15.203 /247(c)

15.203 requirement:

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

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.

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0.43dBi.



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Test Requirement:							
Test Method:	ANSI C63.10: 2013						
Test Frequency Range:	150kHz to 30MHz	150kHz to 30MHz					
	Limit (dBuV)						
	Frequency range (MHz)	Quasi-peak	Average				
	0.15-0.5	66 to 56*	56 to 46*				
Limit:	0.5-5	56	46				
	5-30	60	50				
	150kHz to 30MHz Frequency range (MHz) Limit (dBuV) 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. 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 50Ω/50µH + 5Ω 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 for the unit being measured. A multiple socket outlet strip was used to connec 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 groun reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. The vertical ground reference plane. The vertical ground reference plane. The vertical ground reference plane. The use 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 the ground reference plane was between the closest points of the LISN 1 and the EUT. A 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 a of the interface cables must be changed ac						
Test Procedure:	 2) The EUT was connected Stabilization Network) w power cables of all othe which was bonded to the for the unit being measu multiple power cables to exceeded. 3) The tabletop EUT was p reference plane. And for horizontal ground referer 4) The test was performed EUT shall be 0.4 m from reference plane was bor 1 was placed 0.8 m from ground reference plane for This distance was betw other units of the EUT a LISN 2. 5) In order to find the maxin of the interface cables m 	to AC power source through hich provides a $50\Omega/50\mu$ H + r units of the EUT were con e ground reference plane in t ured. A multiple socket outle b a single LISN provided the laced upon a non-metallic ta floor-standing arrangement, nce plane. with a vertical ground reference the vertical ground reference the vertical ground reference the boundary of the unit of for LISNs mounted on top of een the closest points of th and associated equipment we num emission, the relative po- nust be changed according to	a LISN 1 (Line Impedance 5Ω linear impedance. The nected to a second LISN 2, he same way as the LISN 1 t strip was used to connect rating of the LISN was not able 0.8m above the ground the EUT was placed on the ence plane. The rear of the e plane. The vertical ground d reference plane. The LISN under test and bonded to a the ground reference plane. e LISN 1 and the EUT. All was at least 0.8 m from the positions of equipment and all				
Test Setup:	Shielding Room		Inst Receiver				

4.2 AC Power Line Conducted Emissions

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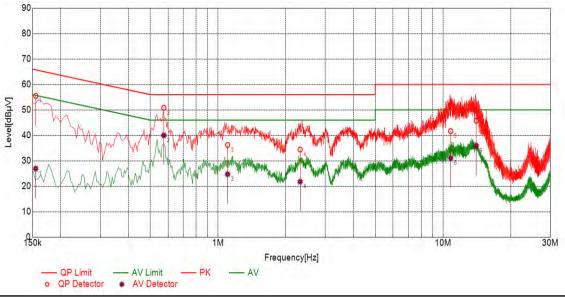
Test Mode: Transmitting with GFSK modulation. Charge +Transmitting mode.	
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass

Measurement Data

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

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

Live line:



		1.1.1.1.1
	LINTT	LICT
Final	Dala	LISL

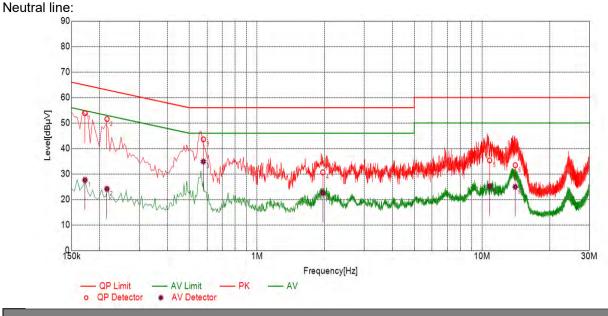
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Туре
1	0.1550	10.10	55.52	65.73	10.21	26.92	55.73	28.81	L
2	0.5747	10.10	50.83	56.00	5.17	40.02	46.00	5.98	L
3	1.1039	10.10	36.21	56.00	19.79	24.74	46.00	21.26	L
4	2.3181	10.10	34.42	56.00	21.58	21.80	46.00	24.20	L
5	10.8104	10.10	41.68	60.00	18.32	31.07	50.00	18.93	L
6	14.0539	10.11	45.72	60.00	14.28	35.96	50.00	14.04	L



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Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Туре
1	0.1722	10.10	53.82	64.85	11.03	27.63	54.85	27.22	Ν
2	0.2156	10.10	51.55	62.99	11.44	24.14	52.99	28.85	Ν
3	0.5781	10.10	43.59	56.00	12.41	34.90	46.00	11.10	N
4	1.9609	10.10	30.66	56.00	25.34	22.55	46.00	23.45	Ν
5	10.8099	10.10	35.34	60.00	24.66	25.17	50.00	24.83	Ν
6	14.0507	10.11	33.45	60.00	26.55	24.95	50.00	25.05	Ν

Remarks:

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

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



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4.3 Duty Cycle

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4.3.1	lest Results	
Test Mode	TX Freq. [MHz]	Duty cycle [%]
BLE	CH0	60.77

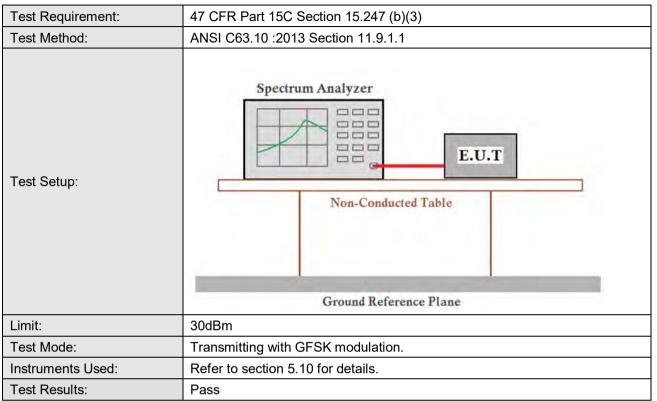
- 4.3.1 Test Plots
- 4.3.1.1 BLE

DLL					
gilent Spectrum Analyzer - Swept SA					
L RF 50Ω AC larker 3 1.43800 ms			ALIGN OFF	02:52:48 AM Jan 01, 1988 TRACE 1 2 3 4 5 6	Peak Search
	PNO: Fast +++ Trig: F IFGain:Low #Atten		Hold: 1/1	TYPE MWWWW DET P N N N N	
Ref Offset 1 dB 0 dB/div Ref 21.00 dBm				Mkr3 1.438 ms -2.739 dBm	NextPeal
og 11.0 1.00	1 	2 2			Next Pk Righ
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enter 2.402000000 GHz es BW 1.0 MHz	#VBW 1.0 MI	łz	Sweep 2	Span 0 Hz 000 ms (1001 pts)	Mkr→C
KKR MODE TRC SCL X 1 N 1 t 1 2 N 1 t 1 3 N 1 t 1	816.0 μs -1.366 1.194 ms -2.036 1.438 ms -2.739	dBm	FUNCTION WIDTH	FUNCTION VALUE	Mkr→RefL
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4.4 Conducted Output Power

4.4.1 Test Results Measurement Data of Average Power

GFSK 1M mode					
Average Output Power (dBm)	Result				
-3.31	Report purpose only				
-2.74	Report purpose only				
-3.78	Report purpose only				
	GFSK 1M mode Average Output Power (dBm) -3.31 -2.74				

GFSK 2M mode				
Test channel	Average Output Power (dBm)	Result		
Lowest	-3.99	Report purpose only		
Middle	-2.65	Report purpose only		
Highest	-3.01	Report purpose only		



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Measurement Data of Peak Power:

GFSK 1M mode						
Test channel	Limit (dBm)	Result				
Lowest	2.55	30.00	Pass			
Middle	3.19	30.00	Pass			
Highest	2.03	30.00	Pass			

GFSK 2M mode						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	1.86	30.00	Pass			
Middle	3.22	30.00	Pass			
Highest	2.05	30.00	Pass			



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4.4.2 Test plots:

4.4.2.1 GFSK 1M Lowest Channel



4.4.2.2 GFSK 1M_Middle Channel



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Man

0 Hz

4.4.2.3 **GFSK 1M_Highest Channel** The duty eilent Spectrur 07:09:28 AM Jan 01, 198 Frequency Avg Type: RMS AvalHold: 10/10 Center Freq 2.480000000 GHz TYPE MWWWW DET P P P P P F Trig: Free Run TYPE PNO: Wide IFGain:Low Atten: 40 dB Auto Tune Mkr1 2.480 000 GHz Band Power 2.032 dBm Ref Offset 1 dB Ref 30.00 dBm 0 dB/div **Center Freq** 2 48000000 GHz Start Fred 2.478000000 GHz Stop Freq 2.482000000 GHz يعليناه Start 2.478000 GHz #Res BW 20 kHz Stop 2.482000 GHz #Sweep 1.000 s (601 pts) **CF** Step #VBW 62 kHz 400.000 kHz Auto FUNCTION FUNCTION 2,480,000 GHz -10.803 dBm Band Power 2.032 dB N 1 f 946.7 kHz **Freq Offset**





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4.4.2.6

GFSK 2M_Highest Channel

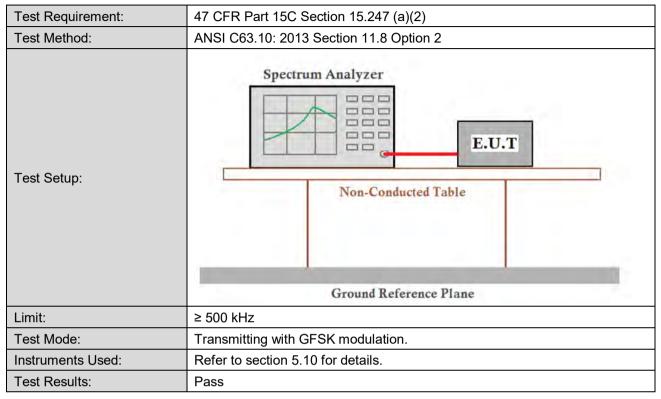


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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth



4.5.1 Test Results

1.0.1	1 oot 1 toout	<u> </u>			
Mode	Test Channel	99% Occupied Bandwidth (MHz)	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
	Lowest	0.94	0.94	≥500	Pass
GFSK 1M	Middle	0.94	0.95	≥500	Pass
	Highest	0.94	0.94	≥500	Pass

Mode	Test Channel	99% Occupied Bandwidth (MHz)	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
	Lowest	1.90	1.92	≥500	Pass
GFSK 2M	Middle	0.94	0.94	≥500	Pass
	Highest	0.94	0.94	≥500	Pass



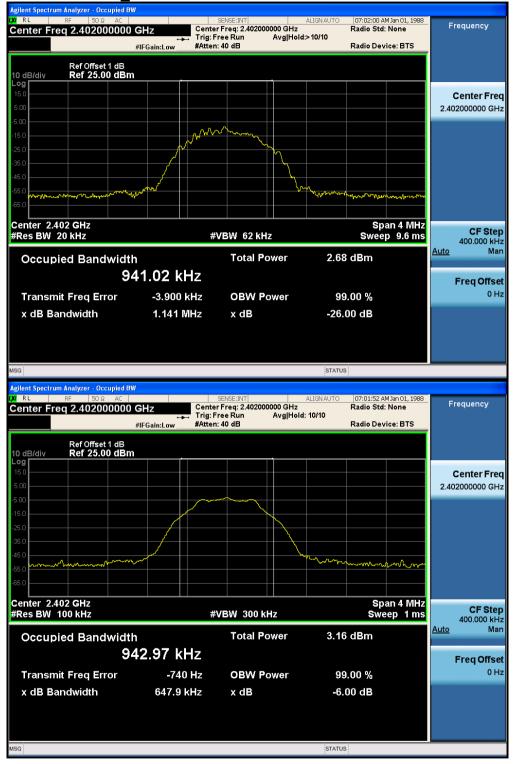
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4.5.2 Test plots

4.5.2.1 GFSK 1M Lowest Channel



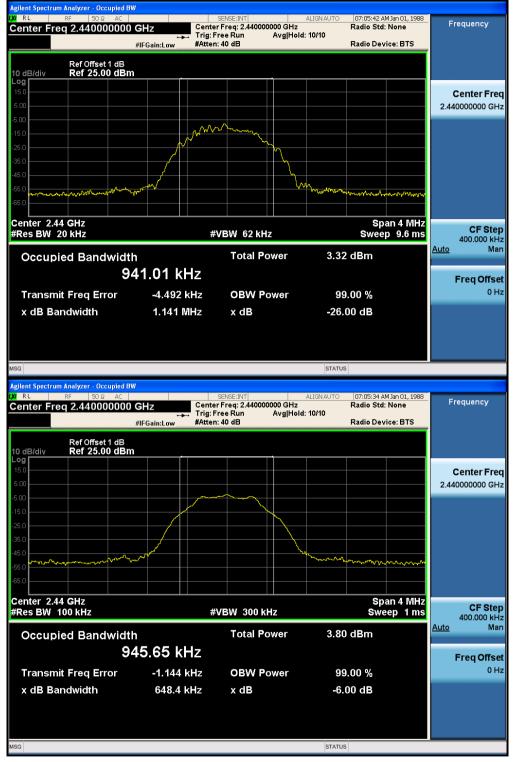


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4.5.2.2 GFSK 1M_Middle Channel



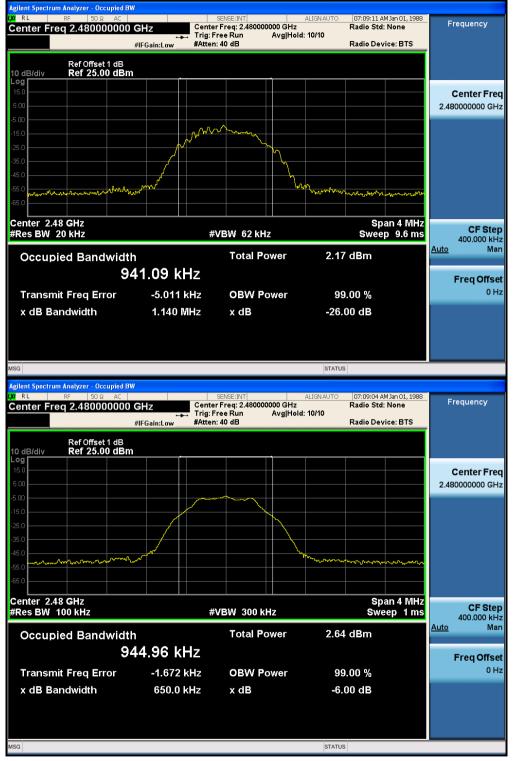


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4.5.2.3 GFSK 1M_Highest Channel



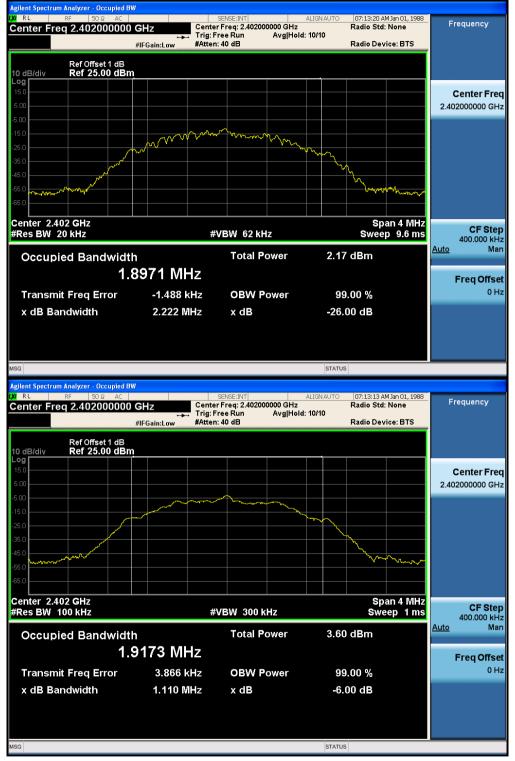


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4.5.2.4 GFSK 2M_Lowest Channel





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eilent Snectrum Analyzer Occupied BV 07:17:09 AM Jan 01, 1988 Radio Std: None ALIGN AUTO Frequency Center Freq 2.440000000 GHz Center Freq: 2.440000000 GHz Avg|Hold: 10/10 Trig: Free Run #Atten: 40 dB Radio Device: BTS #IFGain:Low Ref Offset 1 dB Ref 25.00 dBm 10 dB/div og **Center Freq** 2 44000000 GHz m Center 2.44 GHz #Res BW 20 kHz Span 4 MHz **CF** Step #VBW 62 kHz Sweep 9.6 ms 400.000 kHz Auto Man Total Power 3.36 dBm **Occupied Bandwidth** 941.79 kHz **Freq Offset** 0 Hz -4.320 kHz **Transmit Freg Error OBW Power** 99.00 % 1.140 MHz -26.00 dB x dB Bandwidth x dB STATUS gilent Spectrum Analyzer - Occupied BW 07:16:59 AM Jan 01, 1988 Radio Std: None BL ALIGN AU Center Freq: 2.440000000 GHz Trig: Free Run Avg|Hol Frequency Center Freq 2.440000000 GHz Avg|Hold: 10/10 #Atten: 40 dB Radio Device: BTS #IFGain:Low Ref Offset 1 dB Ref 25.00 dBm 10 dB/div og **Center Freq** 2.440000000 GHz Center 2.44 GHz #Res BW 100 kHz Span 4 MHz **CF** Step #VBW 300 kHz Sweep 1 ms 400.000 kHz Auto Mar 3.86 dBm Total Power **Occupied Bandwidth** 944.22 kHz **Freq Offset** 0 Hz -537 Hz **Transmit Freq Error OBW Power** 99.00 % -6.00 dB x dB Bandwidth 648 4 kHz x dB STATUS





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eilent Spectrum Ana Occupied B 07:21:17 AM Jan 01, 1988 Radio Std: None ALIGNAUTO Frequency Center Freq 2.480000000 GHz Center Freq: 2.480000000 GHz Avg|Hold: 10/10 Trig: Free Run #Atten: 40 dB Radio Device: BTS #IFGain:Low Ref Offset 1 dB Ref 25.00 dBm 10 dB/div og **Center Freq** 2 48000000 GHz Center 2.48 GHz #Res BW 20 kHz Span 4 MHz **CF** Step Sweep 9.6 ms #VBW 62 kHz 400.000 kHz Auto Man Total Power 2.17 dBm **Occupied Bandwidth** 941.45 kHz **Freq Offset** 0 Hz -4.799 kHz **Transmit Freg Error OBW Power** 99.00 % 1.139 MHz -26.00 dB x dB Bandwidth x dB STATUS gilent Spectrum Analyzer - Occupied BW 07:21:08 AM Jan 01, 1988 Radio Std: None Center Freq: 2.48000000 GHz Trig: Free Run Avg|Hol ALIGN AU Frequency Center Freq 2.480000000 GHz Avg|Hold: 10/10 #Atten: 40 dB Radio Device: BTS #IFGain:Low Ref Offset 1 dB Ref 25.00 dBm 10 dB/div og **Center Freq** 2.480000000 GHz Center 2.48 GHz #Res BW 100 kHz Span 4 MHz **CF** Step #VBW 300 kHz Sweep 1 ms 400.000 kHz Auto Mar 2.65 dBm Total Power **Occupied Bandwidth** 944.74 kHz **Freq Offset** 0 Hz -1.598 kHz **Transmit Freq Error OBW Power** 99.00 % -6.00 dB x dB Bandwidth 648.1 kHz x dB STATUS

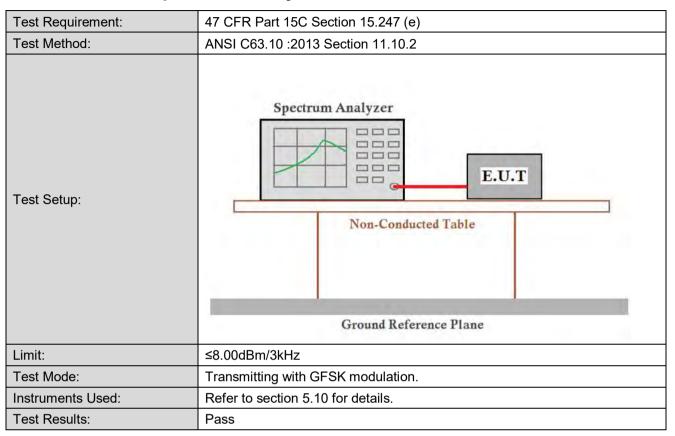




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4.6 **Power Spectral Density**



4.6.1 Test Results

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
	Lowest	-17.39	≤8.00	Pass
GFSK 1M	Middle	-16.74	≤8.00	Pass
	Highest	-17.96	≤8.00	Pass

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
	Lowest	-19.89	≤8.00	Pass
GFSK 2M	Middle	-16.73	≤8.00	Pass
	Highest	-17.90	≤8.00	Pass



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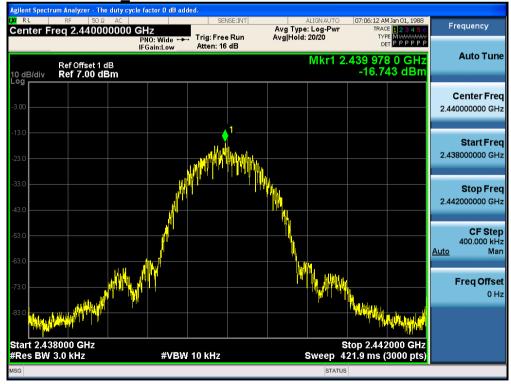
4.6.2 Test plots

4.6.2.1 GFSK 1M Lowest Channel



4.6.2.2

GFSK 1M Middle Channel





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GFSK 2M Highest Channel





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4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.13
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table
	Ground Reference Plane
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Test Mode:	Transmitting with GFSK modulation.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass



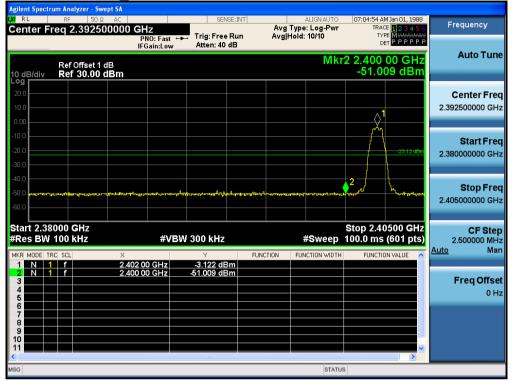
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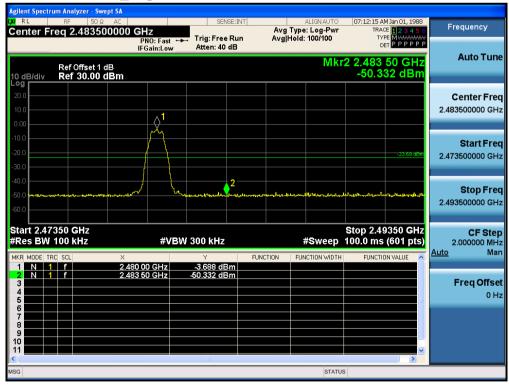
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4.7.1 Test plots

4.7.1.1 GFSK 1M_Lowest Channel



4.7.1.2 GFSK 1M_Highest Channel



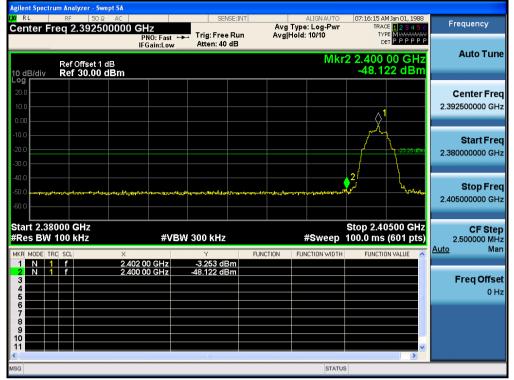
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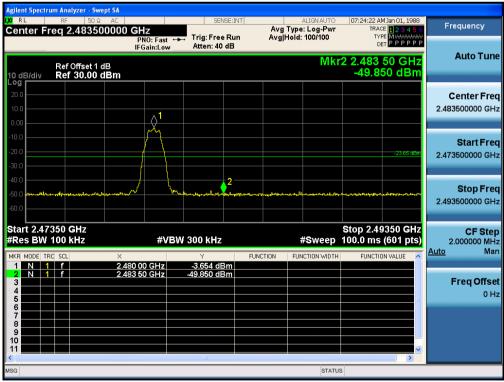


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4.7.1.3 GFSK 2M_Lowest Channel



4.7.1.4 GFSK 2M_Highest Channel



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4.8 Spurious RF Conducted Emissions

SG

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Test Mode:	Transmitting with GFSK modulation.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass



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4.8.1 Test plots:

4.8.1.1 GFSK 1M Lowest Channel

gilent Spectrum Analyzer Swont SA 07:02:44 AM Jan 01, 1988 RL Frequency RACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P P Center Freg 2.402000000 GHz Avg Type: Log-Pwr Avg|Hold:>1000/1000 Trig: Free Run PNO: Wide 😱 IFGain:Low Atten: 30 dB Auto Tune Mkr1 2.402 000 GHz Ref Offset 1 dB Ref 20.00 dBm -3.145 dBm 10 dB/div Center Freq 2.402000000 GHz Start Freq 2.40000000 GHz Stop Freq 2.404000000 GHz **CF** Step 400.000 kHz Auto Man **Freq Offset** 0 Hz Start 2.400000 GHz #Res BW 100 kHz Stop 2.404000 GHz Sweep 1.000 ms (601 pts) #VBW 300 kHz Agilent Spectrum Analyzer - Swept SA 07:03:00 AM Jan 01, 1988 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P BL Frequency Center Freq 79.500 kHz Avg Type: Log-Pwr Avg|Hold:>50/50 Trig: Free Run PNO: Wide 😱 IFGain:Low #Atten: 26 dB Auto Tune Mkr1 9.705 kHz -50.875 dBm Ref Offset 1 dB Ref 0.00 dBm dB/div **Center Freq** 79.500 kHz Start Freq 9.000 kHz Stop Freq -43.15 d 150.000 kHz mall CF Step which you and progla 14,100 kHz Man <u>Auto</u> Man Manun Man Manun Som **Freq Offset** 0 Hz Stop 150.00 kHz 134.8 ms (601 pts) Start 9.00 kHz #Res BW 1.0 kHz #VBW 3.0 kHz Sweep DC Coupled

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RL	rum Analyzer - Sw RF 50 Ω	<u>∧</u> DC		SEN	ISE:INT		ALIGN AUTO	07:03:22 A	M Jan 01, 1988	Frequency
nter F	req 15.0750		PNO: Fast 🖵 FGain:Low	Trig: Free #Atten: 40		Avg Type Avg Hold:	e: Log-Pwr ⊳50/50	TRAC TY D	E 123456 MWWWWW T P P P P P P	Trequency
-ID (disc	Ref Offset 1 o	dB	Sumeow					Mkr1 -43.0	150 kHz 67 dBm	Auto Tur
dB/div ^g	Ref 20.00 (
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tart 150 Res BW			#VBW	30 kHz			Sweep 2		0.00 MHz 3001 pts)	
			#VBW	30 kHz					3001 pts)	
Res BW G	10 kHz rum Analyzer - Sw		#VBW				STATUS	85.4 ms (3001 pts) Ipled	
Res BW IG Ilent Spect	10 kHz	AC 00000 G	Hz	SEN		Avg Type	STATUS	85.4 ms (3001 pts) Ipled MJan 01, 1988	Frequency
Res BW IG Ilent Spect	10 kHz rum Analyzer - Sw RF 50 Q	ac D0000 G		SEN	Run		ALIGN AUTO 2: Log-Pwr >50/50	85.4 ms (DC Cou 07:03:44 A TRAC TY D	3001 pts) Ipled Mlan 01, 1988 E 1 2 3 4 5 6 MWWWW P P P P P P	
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	rum Analyzer - Swept SA RF 50 Ω AC		SENSE:IN	IT	ALIGN AUTO	07:02:56 AM	4 Jan 01, 1988	
	req 2.3500000	00 GHz		Avg Typ	e: Log-Pwr d:>200/200	TRAC	E 123456 E M WMMM	Frequency
		PNO: Fast G	#Atten: 40 dB	i inglion		DE	<u>Т</u> РРРРР	0
	Ref Offset 1 dB				Mk	r1 2.31	1 6 GHz 12 dBm	Auto Tui
0 dB/div ^{og}	Ref 20.00 dBm					-40.2		
10.0								Center Fre
10.0								2.350000000 GI
0.00								Oto at East
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0.0								
20.0							-23.15 dBm	Stop Fr
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io.o								CF Ste 10.000000 M
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0.0 <mark>//*//*/</mark>	สปัจจุจาจจะสีที่จังสารสารได้จะจะสา	and mining and the plant	สาวไข่เหย่างใหญ่ข้อระบาญจำไหญ่จาก	the second stand the second stand stand Stand stand	npymilituriteri	աներ ից հեր ություններ Դուսի հերաներություններ	MufwlwmyMryMu	
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tart 2 30	0000 CH2							
	0000 GHz 100 kHz	#VBV	V 300 kHz		Sweep 9	.600 ms (1000 GH2 1001 pts)	
Res BW		#VBV	V 300 kHz		Sweep 9	.600 ms (1000 GH2 1001 pts)	
Res BW sg gilent Spect	100 KHz rum Analyzer - Swept SA			17	STATUS	.600 ms (1001 pts)	
Res BW sg gilent Spect	100 kHz	00 GHz	SENSE:11	Avg Typ	ALIGN AUTO	.600 ms (1001 pts) ^{4 Jan 01, 1988}	Frequency
Res BW ^{3G} gilent Spect	100 kHz rum Analyzer - Swept SA RF 50 Ω AC		SENSE:11	Avg Typ	ALIGN AUTO re: Log-Pwr d:>200/200	.600 ms (07:04:05 AM TRAC TYF DE	1001 pts) ^{4]an 01, 1988 ² 1 2 3 4 5 6 ² М³ т Р Р Р Р Р Р Р}	
Res BW ilent Spect RL enter F	100 kHz rum Analyzer - Swept SA RF 50 Q AC Freq 2.49175000 Ref Offset 1 dB	00 GHz PN0: Fast IFGain:Low	SENSE:IM	Avg Typ	ALIGN AUTO re: Log-Pwr d:>200/200	.600 ms (07:04:05 AP TRAC TYP DE .496 287	1001 pts)	
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Res BW ag illent Spect RL odB/div og anticological anticol	100 kHz rum Analyzer - Swept SA RF 50 Q AC Freq 2.49175000 Ref Offset 1 dB	00 GHz PNO: Fast IFGain:Low	SENSE:II Trig: Free Ru #Atten: 40 dB	Avg Typ	STATUS	07:04:05 AM	1001 pts)	Auto Tur Center Fr 2.491750000 Gl Start Fr 2.483500000 Gl Stop Fr 2.500000000 Gl CF Ste 1.650000 Mi Auto M
Code/div Code/d	100 kHz	00 GHz PNO: Fast IFGain:Low	SENSE:II Trig: Free Ru #Atten: 40 dB	Avg Typ Avg Hold	STATUS	07:04:05 AM	1001 pts)	Auto Tur Center Fr 2.491750000 Gl Start Fr 2.483500000 Gl Stop Fr 2.500000000 Gl CF Ste 1.550000 Ml Auto M
Res BW General Spect RL RL CodB/div O CodB/d	100 kHz	00 GHz PNO: Fast IFGain:Low	SENSE:II Trig: Free Ru #Atten: 40 dB	Avg Typ Avg Hold	STATUS	07:04:05 AM	1001 pts)	Auto Tur Center Fr 2.491750000 Gl Start Fr 2.483500000 Gl Stop Fr 2.500000000 Gl CF Ste 1.550000 Ml Auto M
Res BW 33 gilent Spect RL RL Renter F 10.0 9 10.0 9 10.0 9 10.0	100 kHz	00 GHz PNO: Fast IFGain:Low	SENSE:II Trig: Free Ru #Atten: 40 dB	Avg Typ Avg Hold	STATUS	07:04:05 AM	1001 pts)	Auto Tur Center Fr 2.491750000 Gl Start Fr 2.483500000 Gl Stop Fr 2.500000000 Gl CF Ste 1.550000 Ml Auto M
Res BW gilent Spect RL RL RL RL RL RL RL R	100 kHz	00 GHz PNO: Fast IFGain:Low	SENSE:II Trig: Free Ru #Atten: 40 dB	Avg Typ Avg Hold	STATUS	07:04:05 AM	1001 pts)	Auto Tur Center Fr 2.491750000 Gl Start Fr 2.483500000 Gl Stop Fr 2.500000000 Gl CF Ste 1.550000 Ml Auto M
Res BW is jilent Spect RL enter F 0 dB/div 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 kHz	DO GHz PNO: Fast IFGain:Low	SENSE:II Trig: Free Ru #Atten: 40 dB	Avg Typ Avg Hold	STATUS	.600 ms (07:04:05 A/ TRAC TRAC 700 -496 287 -48.7 -48.7	1001 pts)	Auto Tur Center Fra 2.491750000 Gl Start Fra 2.483500000 Gl Stop Fra 2.500000000 Gl CF Ste 1.650000 Ml

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RL	RF 50 Ω	AC		SEN	VSE:INT		ALIGN AUTO	07:04:39 AM	4 Jan 01, 1988	-
enter F	req 14.5000	P	HZ NO: Fast 🖵 Gain:Low	Trig: Free #Atten: 40		Avg Type Avg Hold:	: Log-Pwr 10/10	TRAC TYP DE	E 123456 E MWWWWW T P P P P P P	Frequency
0 dB/div	Ref Offset 1 o Ref 20.00 o	iB iBm					Μ	kr1 26.5 -38.5	00 GHz 86 dBm	Auto Tun
.0.0										Center Fre 14.500000000 GF
0.0										Start Fre 2.500000000 GF
0.0									-23.15 dBm	Stop Fre 26.50000000 GH
0.0	يورايونان بالألانية من المارد	h daval para para da da		u tellus et te til	الله المراجع ا		ويعرفون والمعرفين	Hadaga te da Minak	1 	CF Ste 2.40000000 GH <u>Auto</u> Ma
										Freq Offs 0 F
tart 2.50	GHz 100 kHz			300 kHz				Stop 2	6.50 GHz 8001 pts)	



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4.8.1.2 GFSK 1M_Middle Channel



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RL	rum Analyzer - Sw RF 50 Ω			SEN	ISE:INT		ALIGNAUTO	07:07:04 A	M Jan 01, 1988	Frequency
enter F	req 15.0750		PNO: Fast 🖵 Gain:Low	Trig: Free #Atten: 40		Avg Type Avg Hold:	e: Log-Pwr :>50/50	TY D	CE 123456 PE M WWWWW DET P P P P P P	riequeney
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.00										Start Fre
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J.U										Stop Fr 30.000000 Mi
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tart 150	kHz							SHOLL	10.00 MHz	
tart 150 Res BW			#VBW	/ 30 kHz			Sweep 2		0.00 MHz (3001 pts)	
			#VBW	/ 30 kHz					(3001 pts)	
Res BW G ilent Spect			#VBW		ISE:INT			85.4 ms	(3001 pts) upled M Jan 01, 1988	
Res BW G Ilent Spect RL	10 kHz rum Analyzer - Sw	ac D0000 G	Hz PNO: Fast) Trig: Free	Run		STATUS ALIGNAUTO	85.4 ms	(3001 pts) upled M Jan 01, 1988	Frequency
Res BW G ilent Spect	10 kHz rum Analyzer - Sw RF 50 Q req 1.16500	ac 00000 G II	Hz	SEN	Run	Avg Type	ALIGN AUTO 2: Log-Pwr >50/50	85.4 ms C C C C C C C C C C C C C C C C C C C	(3001 pts) upled MJan 01, 1988 CE 123456 PE MWWWWW ET P P P P P 65 GHz	
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Res BW g ilent Spect RL enter F	10 kHz rum Analyzer - Sw RF 50 Ω req 1.16500	AC 00000 G II	Hz PNO: Fast) Trig: Free	Run	Avg Type	ALIGN AUTO 2: Log-Pwr >50/50	85.4 ms C C C C C C C C C C C C C C C C C C C	(3001 pts) upled MJan 01, 1988 CE 123456 PE MWWWWW ET P P P P P 65 GHz	Auto Tui
Res BW ilent Spect RL enter F	10 kHz rum Analyzer - Sw RF 50 Ω req 1.16500	AC 00000 G II	Hz PNO: Fast) Trig: Free	Run	Avg Type	ALIGN AUTO 2: Log-Pwr >50/50	85.4 ms C C C C C C C C C C C C C C C C C C C	(3001 pts) upled MJan 01, 1988 CE 123456 PE MWWWWW ET P P P P P 65 GHz	Auto Tur Center Fro
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Res BW ilent Spect RL enter F OdB/div	10 kHz rum Analyzer - Sw RF 50 Ω req 1.16500	AC 00000 G II	Hz PNO: Fast) Trig: Free	Run	Avg Type	ALIGN AUTO 2: Log-Pwr >50/50	85.4 ms C C C C C C C C C C C C C C C C C C C	(3001 pts) upled MJan 01, 1988 CE 123456 PE MWWWWW ET P P P P P 65 GHz	Auto Tur Center Fra 1.165000000 Gi Start Fra
Res BW	10 kHz rum Analyzer - Sw RF 50 Ω req 1.16500	AC 00000 G II	Hz PNO: Fast) Trig: Free	Run	Avg Type	ALIGN AUTO 2: Log-Pwr >50/50	85.4 ms C C C C C C C C C C C C C C C C C C C	(3001 pts) upled MJan 01, 1988 CE 123456 PE MWWWWW ET P P P P P 65 GHz	Auto Tur Center Fra 1.16500000 Gi Start Fra
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	rum Analyzei RF				SE	NSE:INT		ALIGNAUTO	07:07:38 A	M Jan 01, 1988	
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Res BW sg gilent Spect	100 kHz rum Analyzer RF	<mark>r - Swept S/</mark> 50 Ω ΑΟ				NSE:INT		Sweep 9 status	.600 ms ((1001 pts) M Jan 01, 1988	Frequency
Res BW ^{SG} gilent Spect	100 kHz	<mark>r - Swept S/</mark> 50 Ω ΑΟ	00 GH	Z NO: Fast	Trig: Fre	NSE:INT	Avg Type	Sweep 9 Status	.600 ms (07:07:47 A TRA	(1001 pts)	Frequency
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Res BW gilent Specto RL center F	100 kHz rum Analyzer RF Treq 2.49 Ref Offs	7 - Swept S/ 50 Ω AC 917500 917500	: 00 GH PI IFC	Z NO: Fast	Trig: Fre	NSE:INT	Avg Type	Sweep 9 STATUS ALIGNAUTO e: Log-Pwr >200/200	.600 ms (07:07:47 A TRA TY D .497 66	(1001 pts) MJan 01, 1988 CE 1 2 3 4 5 6 PE MWWW ET P P P P P P 2 5 GHz	Auto Tur Center Fro
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Res BW glient Spect RL enter F 0 dB/div 0 dB/div	100 kHz rum Analyzer RF Treq 2.49 Ref Offs	7 - Swept S/ 50 Ω AC 917500 917500	: 00 GH PI IFC	Z NO: Fast	Trig: Fre	NSE:INT	Avg Type	Sweep 9 STATUS ALIGNAUTO e: Log-Pwr >200/200	.600 ms (07:07:47 A TRA TY D .497 66	(1001 pts) M Jan 01, 1988 CC 12 3 4 5 6 M Market P P P P P P 2 5 GHz 200 dBm	Auto Tur Center Fro 2.491750000 Gl Start Fro 2.483500000 Gl Stop Fro
Res BW s g g g g g g g g g g g g g g g g g g	100 kHz rum Analyzer RF Treq 2.49 Ref Offs	7 - Swept S/ 50 Ω AC 917500 917500	: 00 GH PI IFC	Z NO: Fast	Trig: Fre	NSE:INT	Avg Type	Sweep 9 STATUS ALIGNAUTO e: Log-Pwr >200/200	.600 ms (07:07:47 A TRA TY D .497 66	(1001 pts) M Jan 01, 1988 CC 12 3 4 5 6 M Market P P P P P P 2 5 GHz 200 dBm	Auto Tur Center Fra 2.491750000 Gl Start Fra 2.483500000 Gl Stop Fra 2.500000000 Gl
Res BW G G G G G G G G G G G G G G G G G G G	100 kHz rum Analyzer RF Treq 2.49 Ref Offs	7 - Swept S/ 50 Ω AC 917500 917500	: 00 GH PI IFC	Z NO: Fast	Trig: Fre	NSE:INT	Avg Type	Sweep 9 STATUS ALIGNAUTO e: Log-Pwr >200/200	.600 ms (07:07:47 A TRA TY D .497 66	(1001 pts) M Jan 01, 1988 CC 12 3 4 5 6 M Market P P P P P P 2 5 GHz 200 dBm	Auto Tur Center Fra 2.491750000 Gl Start Fra 2.483500000 Gl Stop Fra 2.500000000 Gl CF Sta 1.650000 Ml
Res BW G G G G G G G G G G G G G G G G G G G	rum Analyzer RF Greq 2.49 Ref Offs Ref 20.	et 1 dB 00 dBm	100 GH Pi IF0	Z Y0: Fast Sain:Low	Trig: Fre #Atten: 4	NSE:INT	Avg Type	Sweep 9 status s	(07:07:47 A 1784 1784 1797 0 4997 66 -48.8	(1001 pts) M Jan 01, 1988 CE 123456 P P P P P P 2 5 GHz 00 dBm -22 54 dBm	Auto Tur Center Fra 2.491750000 Gl Start Fra 2.483500000 Gl Stop Fra 2.500000000 Gl CF Ste 1.650000 Ml
Res BW G G G G G G G G G G G G G G G G G G G	rum Analyzer RF Greq 2.49 Ref Offs Ref 20.	et 1 dB 00 dBm	100 GH Pi IF0	Z Y0: Fast Sain:Low	Trig: Fre #Atten: 4	NSE:INT	Avg Typ Avg Hold	Sweep 9 status s	(07:07:47 A 1784 1784 1797 0 4997 66 -48.8	(1001 pts) M Jan 01, 1988 CE 123456 P P P P P P 2 5 GHz 00 dBm -22 54 dBm	Auto Tur Center Fra 2.491750000 Gl Start Fra 2.483500000 Gl Stop Fra 2.500000000 Gl CF Ste 1.650000 Mi Auto Mi
Res BW G G G G G G G G G G G G G G G G G G G	rum Analyzer RF Greq 2.49 Ref Offs Ref 20.	et 1 dB 00 dBm	100 GH Pi IF0	Z Y0: Fast Sain:Low	Trig: Fre #Atten: 4	NSE:INT	Avg Typ Avg Hold	Sweep 9 status s	(07:07:47 A 1784 1784 1797 0 4997 66 -48.8	(1001 pts) M Jan 01, 1988 CE 123456 P P P P P P 2 5 GHz 00 dBm -22 54 dBm	Auto Tur Center Fr 2.491750000 Gl Start Fr 2.483500000 Gl Stop Fr 2.500000000 Gl CF Ste 1.650000 Ml Auto M
Res BW G G G G G G G G G G G G G G G G G G G	rum Analyzer RF Greq 2.49 Ref Offs Ref 20.	et 1 dB 00 dBm	100 GH Pi IF0	Z Y0: Fast Sain:Low	Trig: Fre #Atten: 4	NSE:INT	Avg Typ Avg Hold	Sweep 9 status s	(07:07:47 A 1784 1784 1797 0 4997 66 -48.8	(1001 pts) M Jan 01, 1988 CE 123456 P P P P P P 2 5 GHz 00 dBm -22 54 dBm	Auto Tur Center Fr 2.491750000 Gl Start Fr 2.483500000 Gl Stop Fr 2.500000000 Gl CF Ste 1.650000 Ml Auto M
Res BW G G G G G G G G G G G G G G G G G G G	rum Analyzer RF Greq 2.49 Ref Offs Ref 20.	et 1 dB 00 dBm	100 GH Pi IF0	Z Y0: Fast Sain:Low	Trig: Fre #Atten: 4	NSE:INT	Avg Typ Avg Hold	Sweep 9 status s	(07:07:47 A 1784 1784 1797 0 4997 66 -48.8	(1001 pts) M Jan 01, 1988 CE 123456 P P P P P P 2 5 GHz 00 dBm -22 54 dBm	Auto Tur Center Fr 2.491750000 Gl Start Fr 2.483500000 Gl Stop Fr 2.500000000 Gl CF Ste 1.650000 Ml Auto M
Res BW 3G 3G 3G 3G 3G 3G 3G 3G 3G 3G	Ref Offs Ref 20.	r Swept SJ 50 Q AO 0175000 et 1 dB 00 dBm	100 GH Pi IF0	Z Y0: Fast Sain:Low	Trig: Fre #Atten: 4	NSE:INT	Avg Typ Avg Hold	Sweep 9 status st	1 107:07:47 A 107:07:47 A 1	(1001 pts)	Auto Tur Center Fr 2.491750000 Gl Start Fr 2.483500000 Gl Stop Fr 2.500000000 Gl CF Ste 1.650000 Ml Auto M
Res BW ig iglent Spect RL enter F 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	rum Analyzer Ref Offs Ref 20.	r Swept SJ 50 Q AO 0175000 et 1 dB 00 dBm	100 GH Pi IF0	Z NO: Fast Sain:Low	Trig: Fre #Atten: 4	NSE:INT	Avg Typ Avg Hold	Sweep 9 status st	1 107:07:47 A 107:07:47 A 1	(1001 pts)	Auto Tur Center Fra 2.491750000 Gl Start Fra 2.483500000 Gl Stop Fra 2.500000000 Gl CF Ste 1.650000 Ml

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RL	RF 50 Ω			SEN	ISE:INT		ALIGN AUTO		4 Jan 01, 1988	Frequency
enter F	req 14.5000	P	GHZ NO: Fast 🖵 Gain:Low) Trig: Free #Atten: 40		Avg Type Avg Hold:	: Log-Pwr 10/10	TYP	E 123456 E M WWWWWW T P P P P P P	
) dB/div	Ref Offset 1 d Ref 20.00 d	B IBm					M	kr1 26.4 -38.1	73 GHz 82 dBm	Auto Tun
										Center Fre 14.50000000 GF
00										Start Fre 2.500000000 GF
).0).0									-22.54 dBm	Stop Fre 26.50000000 GF
3.0 3.0		alle de la constitut		te and the state of	an a	elunteination.				CF Ste 2.400000000 GI <u>Auto</u> Mi
).0										Freq Offs 01
0.0 tart 2.50	GH7							Stop 2	6.50 GHz	
	100 kHz		#VBW	300 kHz			Sweep	2.294 s (



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4.8.1.3 GFSK 1M_Highest Channel



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	rum Analyzer - Swept Si RF 50 Ω ⚠ DO		SENSE:INT	ALIGN AUTO	07:10:34 AM Jan 01, 1988	
	req 15.075000	MHz		Avg Type: Log-Pwr Avg Hold:>50/50	TRACE 1 2 3 4 5 6 TYPE MWWW DET P P P P P	Frequency
		PNO: Fast 🖵 IFGain:Low	#Atten: 40 dB			
	Ref Offset 1 dB				Mkr1 150 kHz -40.287 dBm	Auto Tur
0 dB/div ^{og}	Ref 20.00 dBm				-40.207 dBm	
						Center Fre
10.0						15.075000 MH
0.00						
						Start Fre 150.000 kH
10.0						
20.0						Stop Fre
~ .						30.000000 MH
10.0					-33.63 dBm	
40.0 <mark></mark>						CF Ste 2.985000 MH
						Auto Ma
50.0						
50.0	والمتلاف والمراجع والمراجع	ta la cuncifica administra	alterine a description	at the total the out of the lattice to the base	en aldel in setting the setting	Freq Offs 0 H
						0 F
70.0						
tart 150	kH-7				Ctop 20.00 MHz	
start 150 Res BW		#VBW	30 kHz	Sweep 2	Stop 30.00 MHz 85.4 ms (3001 pts)	
		#VBW	30 kHz	-		
Res BW	10 kHz rum Analyzer - Swept Si	A		STATUS	85.4 ms (3001 pts)	
Res BW sg gilent Spect	10 kHz	A 00 GHz	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	85.4 ms (3001 pts)	Frequency
Res BW sg gilent Spect	10 kHz rum Analyzer - Swept Si RF 50 Ω AC	A.	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50	85.4 ms (3001 pts) DC Coupled 07:10:54 AM Jan 01, 1988 TRACE 2345 6 TYPE MWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW	
Res BW gilent Specto RL enter F	10 kHz rum Analyzer - Swept Si RF 50 Ω AC ireq 1.1650000	A OO GHz PN0: Fast IFGain:Low	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50	85.4 ms (3001 pts) DC Coupled 07:10:54 AM Jan 01, 1988 TRACE 12 2 4 5 6 TYPE M MANAGE DET P P P P P P 1 2.256 30 GHz	
Res BW gilent Specto RL enter F	10 kHz rum Analyzer - Swept Si RF 50 0 Ac reg 1.1650000	A OO GHz PN0: Fast IFGain:Low	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50	85.4 ms (3001 pts) DC Coupled 07:10:54 AM Jan 01, 1988 TRACE 2345 6 TYPE MWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW	
Res BW gilent Spect RL center F	10 kHz rum Analyzer - Swept Si RF 50 Ω AC ireq 1.1650000	A OO GHz PN0: Fast IFGain:Low	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50	85.4 ms (3001 pts) DC Coupled 07:10:54 AM Jan 01, 1988 TRACE 12 2 4 5 6 TYPE M MANAGE DET P P P P P P 1 2.256 30 GHz	Auto Tur Center Fre
Res BW gilent Spect RL center F 0 dB/div	10 kHz rum Analyzer - Swept Si RF 50 Ω AC ireq 1.1650000	A OO GHz PN0: Fast IFGain:Low	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50	85.4 ms (3001 pts) DC Coupled 07:10:54 AM Jan 01, 1988 TRACE 12 2 4 5 6 TYPE M MANAGE DET P P P P P P 1 2.256 30 GHz	Auto Tur Center Fre
Res BW sg glent Spect RL Center F 0 dB/div	10 kHz rum Analyzer - Swept Si RF 50 Ω AC ireq 1.1650000	A OO GHz PN0: Fast IFGain:Low	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50	85.4 ms (3001 pts) DC Coupled 07:10:54 AM Jan 01, 1988 TRACE 12 2 4 5 6 TYPE M MANAGE DET P P P P P P 1 2.256 30 GHz	Auto Tur Center Fre 1.165000000 GH
Res BW sc glent Spect RL center F 0 dB/div 0 dB/div	10 kHz rum Analyzer - Swept Si RF 50 Ω AC ireq 1.1650000	A OO GHz PN0: Fast IFGain:Low	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50	85.4 ms (3001 pts) DC Coupled 07:10:54 AM Jan 01, 1988 TRACE 12 2 4 5 6 TYPE M MANAGE DET P P P P P P 1 2.256 30 GHz	Auto Tur Center Fre 1.16500000 GF Start Fre
Res BW sc glent Spect RL center F 0 dB/div 0 dB/div	10 kHz rum Analyzer - Swept Si RF 50 Ω AC ireq 1.1650000	A OO GHz PN0: Fast IFGain:Low	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50	85.4 ms (3001 pts) DC Coupled 07:10:54 AM Jan 01, 1988 TRACE 12 2 4 5 6 TYPE M MANAGE DET P P P P P P 1 2.256 30 GHz	Auto Tur Center Fre 1.16500000 GF Start Fre
Res BW aa glient Spect RL RL addition a	10 kHz rum Analyzer - Swept Si RF 50 Ω AC ireq 1.1650000	A OO GHz PN0: Fast IFGain:Low	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50	85.4 ms (3001 pts) DC Coupled 07:10:54 AM Jan 01, 1988 TRACE 12 2 4 5 6 TYPE M MANAGE DET P P P P P P 1 2.256 30 GHz	Auto Tur Center Fre 1.16500000 GH Start Fre 30.000000 MH
Res BW sa gilent Spect RL RL C dB/div	10 kHz rum Analyzer - Swept Si RF 50 Ω AC ireq 1.1650000	A OO GHz PN0: Fast IFGain:Low	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50	85.4 ms (3001 pts) DC Coupled 07:10:54 AM Jan 01, 1988 TRACE 12 23 4 5 6 TYPE MANAGEMENT DET P P P P P P 1 2.256 30 GHz -45.901 dBm	Auto Tur Center Fre 1.16500000 GH Start Fre 30.00000 MH Stop Fre
Res BW sa gilent Spect RL RL C dB/div	10 kHz rum Analyzer - Swept Si RF 50 Ω AC ireq 1.1650000	A OO GHz PN0: Fast IFGain:Low	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50	85.4 ms (3001 pts) DC Coupled 07:10:54 AM Jan 01, 1988 TRACE 12 23 4 5 6 TYPE MANAGEMENT DET P P P P P P 1 2.256 30 GHz -45.901 dBm	Auto Tur Center Fre 1.16500000 GH Start Fre 30.00000 MH Stop Fre
Res BW sg gilent Spect	10 kHz rum Analyzer - Swept Si RF 50 Ω AC ireq 1.1650000	A OO GHz PN0: Fast IFGain:Low	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50	85.4 ms (3001 pts) DC Coupled 07:10:54 AM Jan 01, 1988 TRACE 12 23 4 5 6 TYPE MANAGEMENT DET P P P P P P 1 2.256 30 GHz -45.901 dBm	Auto Tur Center Fre 1.165000000 GH Start Fre 30.000000 MH Stop Fre 2.300000000 GH
Res BW aa gilent Spect RL RL OdB/div O	10 kHz	A OO GHz PN0: Fast IFGain:Low	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50 MIKr	85.4 ms (3001 pts) DC Coupled 07:10:54 AM3ar 01, 1988 TRACE 12 3 4 5 6 TRACE 12	Auto Tur Center Fre 1.165000000 GH Start Fre 30.000000 MH Stop Fre 2.300000000 GH CF Ste 227.000000 MH
Res BW gilent Spect RL RL RL CodB/div 9 10.0 9	10 kHz rum Analyzer - Swept Sr RF 50 Ω AC ireq 1.1650000 Ref Offset 1 dB Ref 20.00 dBm	A OO GHz PN0: Fast IFGain:Low	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50 MIKr	85.4 ms (3001 pts) DC Coupled 07:10:54 AM Jan 01, 1988 TRACE 12 23 4 5 6 TYPE MANAGEMENT DET P P P P P P 1 2.256 30 GHz -45.901 dBm	Auto Tur Center Fre 1.165000000 GH Start Fre 30.000000 MH Stop Fre 2.300000000 GH CF Ste 227.000000 MH Auto Ma
Res BW ss gilent Spect gilent Spect RL R RL Center F Sector 10.0 Sector 20.0 Sector	10 kHz rum Analyzer - Swept Sr RF 50 Ω AC ireq 1.1650000 Ref Offset 1 dB Ref 20.00 dBm	A OO GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50 MIKr	85.4 ms (3001 pts) DC Coupled 07:10:54 AM3ar 01, 1988 TRACE 12 3 4 5 6 TRACE 12	Auto Tur Center Fre 1.165000000 GH Start Fre 30.000000 MH 2.30000000 GH 2.30000000 GH 2.27.000000 MH Auto Ma
O ability 0	10 kHz rum Analyzer - Swept Sr RF 50 Ω AC ireq 1.1650000 Ref Offset 1 dB Ref 20.00 dBm	A OO GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50 MIKr	85.4 ms (3001 pts) DC Coupled 07:10:54 AM3ar 01, 1988 TRACE 12 3 4 5 6 TRACE 12	Auto Tur Center Fre 1.165000000 GH Start Fre 30.000000 MH 2.30000000 GH 2.30000000 GH 227.000000 MH Auto Ma Freq Offs
Res BW gilent Spect RL RL RL CodB/div 9 10.0 9	10 kHz rum Analyzer - Swept Sr RF 50 Ω AC ireq 1.1650000 Ref Offset 1 dB Ref 20.00 dBm	A OO GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50 MIKr	85.4 ms (3001 pts) DC Coupled 07:10:54 AM3ar 01, 1988 TRACE 12 3 4 5 6 TRACE 12	Auto Tur Center Fre 1.165000000 GH Start Fre 30.000000 MH 2.30000000 GH 2.30000000 GH 2.27.000000 MH Auto Ma
Res BW gilent Spect RL RL RL RL RL RL RL R	10 kHz	A OO GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50 MIKr	85.4 ms (3001 pts) DC Coupled 07:10:54 AM Jan 01, 1988 TRACE 13 34 56 TYPE MUMANUM DET P P P P P 1 2.256 30 GHz -45.901 dBm -23 63 dBm -23 63 dBm	Auto Tur Center Fre 1.165000000 GH Start Fre 30.000000 MH 2.30000000 GH 2.30000000 GH 2.27.000000 MH Auto Ma
Res BW gilent Spect RL gilent Spect RL center F Sector 0.000 9	10 kHz	A OO GHz PNO: Fast IFGain:Low A A A A A A A A A A A A A	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50 MKr	85.4 ms (3001 pts) DC Coupled 07:10:54 AM3ar 01, 1988 TRACE 12 3 4 5 6 TRACE 12	Auto Tur Center Fre 1.165000000 GH Start Fre 30.000000 MH Stop Fre 2.30000000 GH CF Ste 227.00000 MH

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	rum Analyzer - Swi										
	RF 50 Ω req 2.35000		Ηz		VSE:INT	Avg Type	ALIGNAUTO		M Jan 01, 1988 E <mark>1 2 3 4 5 6</mark> E M WWWWW	Frequenc	су
		Р	'NO: Fast 🕞 Gain:Low	Trig: Free #Atten: 40		Avg Hold:	>200/200	TYI Di			
	Ref Offset 1 o	зB					Mk		0 0 GHz	Auto	Tur
0 dB/div og	Ref 20.00 (dBm					1	-47.9	92 dBm		
										Center	Fre
10.0										2.35000000	0 Gł
0.00											
5.00										Start	Fre
10.0										2.30000000	0 Gł
~											
20.0									-23.63 dBm	Stop	
30.0										2.4000000	0 GI
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40.0			1							10.00000	
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50.0 www.t /1/	99441 ⁴ 4444411-14410	₩UVALE (APPA	na lintan mananan an	ŊĨ <i>ŊŢŶĊĊŎ</i> ŎŊIJĬŶĊĊĬŊĬ	en laberte (la Alaea,	All Work and All A	hter And Charles and	phillips that	an herbalan ha		
60.0										FreqC	οns 10
70.0											•
/0.0											
taut 2.20								Otom 0 44	0000 OU-		
	0000 GHz 100 kHz		#VBW	300 kHz			Sweep 9	Stop 2.40 .600 ms (0000 GHz 1001 pts)		
			#VBW	300 kHz			Sweep 9	.600 ms (0000 GHz 1001 pts)		
Res BW		ept SA	#VBW	/ 300 kHz				.600 ms (0000 GHz 1001 pts)		
Res BW sg gilent Spectr	100 kHz rum Analyzer - Swi RF 50 Q	AC			NSE:INT		STATUS	.600 ms (1001 pts)	Frequence	су
Res BW sg gilent Spectr	100 kHz rum Analyzer - Sw	AC 50000 GH P	Hz NO: Fast ⊂	SEN	NSE:INT		STATUS	.600 ms (1001 pts)	Frequenc	cy
Res BW ^{SG} gilent Spectr	100 kHz rum Analyzer - Sw RF 50 Q req 2.49175	AC 50000 GH P IF	Hz) Trig: Free	NSE:INT	Avg Type	ALIGNAUTO S: Log-Pwr >200/200	.600 ms (07:11:16 Al TRAC TY 0 .487 76	1001 pts)	Frequence	
Res BW gilent Spectr RL enter F 0 dB/div	100 kHz rum Analyzer - Swi RF 50 Q	AC 50000 GH IF IB	Hz NO: Fast ⊂) Trig: Free	NSE:INT	Avg Type	ALIGNAUTO S: Log-Pwr >200/200	.600 ms (07:11:16 Al TRAC TY 0 .487 76	1001 pts) MJan 01, 1988 Ф. 12 3 4 5 6 Ф. М. М. М. М. М. F. Р. Р. Р. Р. Р. Р.		
Res BW gilent Spectr RL Center F 0 dB/div	100 kHz rum Analyzer - Swi RF 50 Q req 2.49175	AC 50000 GH IF IB	Hz NO: Fast ⊂) Trig: Free	NSE:INT	Avg Type	ALIGNAUTO S: Log-Pwr >200/200	.600 ms (07:11:16 Al TRAC TY 0 .487 76	1001 pts)	Auto	Tur
Res BW gilent Spectr RL center F 0 dB/div	100 kHz rum Analyzer - Swi RF 50 Q req 2.49175	AC 50000 GH IF IB	Hz NO: Fast ⊂) Trig: Free	NSE:INT	Avg Type	ALIGNAUTO S: Log-Pwr >200/200	.600 ms (07:11:16 Al TRAC TY 0 .487 76	1001 pts)		Tui Fre
Res BW sc glent Spectr RL center F 0 dB/div	100 kHz rum Analyzer - Swi RF 50 Q req 2.49175	AC 50000 GH IF IB	Hz NO: Fast ⊂) Trig: Free	NSE:INT	Avg Type	ALIGNAUTO S: Log-Pwr >200/200	.600 ms (07:11:16 Al TRAC TY 0 .487 76	1001 pts)	Auto Center	Tur Fre
Res BW sg gilent Spectr	100 kHz rum Analyzer - Swi RF 50 Q req 2.49175	AC 50000 GH IF IB	Hz NO: Fast ⊂) Trig: Free	NSE:INT	Avg Type	ALIGNAUTO S: Log-Pwr >200/200	.600 ms (07:11:16 Al TRAC TY 0 .487 76	1001 pts)	Auto Center	Tur Fre
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	r <mark>um Analyzer - Swept SA</mark> RF 50 Ω AC		SENSE:INT	ALIGN AUTO	07:15:16 AM Jan 01, 1988	_
	req 2.350000000 (PNO: Fast 😱	Trig: Free Run	Avg Type: Log-Pwr Avg Hold:>200/200	TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P	Frequency
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3 <mark>ilent Spectr</mark> RL	<mark>rum Analyzer - Swept SA</mark> RF 50Ω AC		SENSE:INT	STATUS ALIGNAUTO AVg Type: Log-Pwr	07:15:25 AM Jan 01, 1988	Frequency
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a lent Spectr RL enter Fl enter Fl 0.0 0.0	rum Analyzer - Swept SA RF 50 Ω AC req 2.491750000 (Ref Offset 1 dB	GHz PNO: Fast 😱	SENSE:INT	STATUS ALIGNAUTO Avg Type: Log-Pwr Avg[Hold>200/200	07:15:25 AM Jan 01, 1988 TRACE 1: 2 3 4 5 G TYPE MWWWWW OET P P P P P P 4999 670 0 GHz -48.510 dBm	Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr
dB/div g g g g g g g g g g g g g g g g g g g	rum Analyzer - Swept SA RF 50 Ω AC req 2.491750000 (Ref Offset 1 dB	GHz PNO: Fast 😱	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg[Hold>200/200	07:15:25 AM Jan 01, 1988 TRACE 1: 2 3 4 5 G TYPE MWWWWW OET P P P P P P 4999 670 0 GHz -48.510 dBm	Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.500000000 G
dB/div g g g g g g g g g g g g g g g g g g g	rum Analyzer - Swept SA RF 50 Ω AC req 2.491750000 (Ref Offset 1 dB	GHz PNO: Fast 😱	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg[Hold>200/200	07:15:25 AM Jan 01, 1988 TRACE 1: 2 3 4 5 G TYPE MWWWWW OET P P P P P P 4999 670 0 GHz -48.510 dBm	Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.500000000 G
dB/div gg a.0 a.0 a.0 a.0 a.0 a.0 a.0 a.0 a.0 a.0	RF 50 @ AC Ref Offset 1 dB Ref 20.00 dBm	CHZ PN0: Fast IFGain:Low	SENSE:INT	STATUS	3 07:15:25 AM Jan 01, 1988 TRACE 12 23 4 5 6 TYPE MAXMANAN DET P P P P P P .499 670 0 GHz -48.510 dBm -23 28 dbm -23 28 dbm	Frequency Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.500000000 G CF St 1.650000 M Auto M
dB/div gg a.0 a.0 a.0 a.0 a.0 a.0 a.0 a.0 a.0 a.0	RF 50 @ AC Ref Offset 1 dB Ref 20.00 dBm	CHZ PN0: Fast IFGain:Low	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg[Hold>200/200	3 07:15:25 AM Jan 01, 1988 TRACE 12 23 4 5 6 TYPE MAXMANAN DET P P P P P P .499 670 0 GHz -48.510 dBm -23 28 dbm -23 28 dbm	Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.500000000 G CF St 1.650000 M Auto M
a lent Spectry R L enter F 9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	RF 50 @ AC Ref Offset 1 dB Ref 20.00 dBm	CHZ PN0: Fast IFGain:Low	SENSE:INT	STATUS	3 07:15:25 AM Jan 01, 1988 TRACE 12 23 4 5 6 TYPE MAXMANAN DET P P P P P P .499 670 0 GHz -48.510 dBm -23 28 dbm -23 28 dbm	Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.500000000 G CF St 1.650000 M Auto N
a lent Spectry RL Patter F Patter F 9 0.0 000 0.0 00000000	RF 50 @ AC Ref Offset 1 dB Ref 20.00 dBm	CHZ PN0: Fast IFGain:Low	SENSE:INT	STATUS	3 07:15:25 AM Jan 01, 1988 TRACE 12 23 4 5 6 TYPE MAXMANAN DET P P P P P P .499 670 0 GHz -48.510 dBm -23 28 dbm -23 28 dbm	Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.500000000 G CF St 1.650000 M Auto N
a lent Spectri RL Patter F enter F 9 0.0 000 0.0 00000000	RF 50 @ AC Ref Offset 1 dB Ref 20.00 dBm	CHZ PN0: Fast IFGain:Low	SENSE:INT	STATUS	3 07:15:25 AM Jan 01, 1988 TRACE 12 23 4 5 6 TYPE MAXMANAN DET P P P P P P .499 670 0 GHz -48.510 dBm -23 28 dbm -23 28 dbm	Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.500000000 G CF St 1.650000 M Auto M
a sector of the	RF 50 @ AC Ref Offset 1 dB Ref 20.00 dBm	CHZ PN0: Fast IFGain:Low	SENSE:INT	STATUS	3 07:15:25 AM Jan 01, 1988 TRACE 12 23 4 5 6 TYPE MAXMANAN DET P P P P P P .499 670 0 GHz -48.510 dBm -23 28 dbm -23 28 dbm	Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.500000000 G CF St 1.650000 M Auto N
a ilent Spectr RL enter F 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Ref Swept SA Ref Offset 1 dB Ref 20.00 dBm	SHz PN0: Fast PGain:Low	SENSE:INT	STATUS	Control Contro	Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.500000000 G
a lent Spectr RL enter F a a a a a a a a a a a a a	Ref Offset 1 dB Ref 20.00 dBm	SHz PN0: Fast PGain:Low	SENSE:INT	STATUS	23.28 dBm 23.28 dBm 1742C 1.2.2.4 5 G 1742C 1.2.2.4 5 G 1742C 1.2.2.4 5 G 1742C 1.2.2.4 5 G 1.600 ms (601 pts)	Auto Tu Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.500000000 G CF St 1.650000 M Auto M

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RL	RF 50 Ω	AC		SEN	ISE:INT		ALIGN AUTO	07:16:00 AN	1 Jan 01, 1988	
enter F	req 14.5000	P	SHZ NO: Fast 🖵 Gain:Low	Trig: Free #Atten: 40		Avg Type Avg Hold:	: Log-Pwr 10/10	TRAC TYP DE	123456 M WAAAAAAA TPPPPPP	Frequency
dB/div	Ref Offset 1 c Ref 20.00 c						Μ	kr1 26.4 -38.19	82 GHz 95 dBm	Auto Tun
										Center Fre 14.500000000 GF
 										Start Fre 2.500000000 GF
).0).0									-23.26 dBm	Stop Fre 26.500000000 GH
3.0 3.0 / 1.11 / 1 1	and a second little galaxy of the second			the discount of the discount	in the second second	til station by the	an a state of the second	itan j <mark>e ten je platisle in</mark> Transformation	ik ing growth theory	CF Ste 2.40000000 GH <u>Auto</u> Ma
).0										Freq Offs 0 I
art 2.50	GHz							Stop 2	6.50 GHz	
	100 kHz		#VBW	300 kHz			Sweep	2.294 s (



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4.8.1.5 GFSK 2M_Middle Channel



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RL	rum Analyzer - Swi RF 50 Ω			SEN	VSE:INT		ALIGNAUTO	07:18:31 A	M Jan 01, 1988	Frequency
enter F	req 15.0750	F	PNO: Fast 🖵 Gain:Low	Trig: Free #Atten: 40		Avg Type Avg Hold:	e: Log-Pwr >50/50	TRAC TYI DI	ETPPPPP	Trequency
dB/div	Ref Offset 1 o Ref 20.00 o	зB	Gam.Eow					Mkr1	160 kHz 62 dBm	Auto Tu
										Center Fre
0.0										15.075000 Mi
.00										
										Start Fre 150.000 ki
).0										130.000 K
).0										Stop Fr
).0									-32.53 dBm	30.000000 M
1										CF Ste
										2.985000 M Auto M
.0										
1.0 A	An	lander bildetallere	ld) alice of combiners	H istlachuid d	Alban Maria	فرواحه ويروسانا وأرا	Li dedominist i rollis ti	والرزيلية والمتعرب	hikab Laskasata n	Freq Offs 0
	ale, and the first of the state		line from a los pla	antes a substation	(the state in the	PAR AND ADDRESS OF	n <mark>a la capacita da capacita d</mark>		and and produced in	
art 150			#\(B)M	20 647			Ewoon 2		0.00 MHz	
	kHz 10 kHz		#VBW	30 kHz				85.4 ms (3001 pts)	
Res BW		ept SA	#VBW	30 kHz					3001 pts)	
Res BW s ilent Spectr RL	10 kHz	AC 00000 GI	Hz	SEM	VSE:INT	Avg Type	STATUS	85.4 ms (3001 pts) upled MJan 01, 1988	Frequency
Res BW s ilent Spectr RL	10 kHz rum Analyzer - Swu RF 50 Q	AC 00000 GI		SEM	e Run		ALIGN AUTO 2: Log-Pwr >50/50	85.4 ms (DC Cou 07:18:51 A TRAC TYI D	3001 pts) upled MJan 01, 1988 E 1 2 3 4 5 6 M W W W W P P P P P P	
Res BW	10 kHz rum Analyzer - Swi RF 50 Q ireq 1.16500	AC DOOOOO GI IF IF	Hz NO: Fast 🕞) Trig: Free	e Run	Avg Type	ALIGN AUTO 2: Log-Pwr >50/50	85.4 ms (DC Cou 07:18:51 AI 174 07 1 2.206	3001 pts) upled MJan 01, 1988	
Res BW s ilent Spectr RL	10 kHz rum Analyzer - Sw RF 50 Q req 1.16500	AC DOOOOO GI IF IF	Hz NO: Fast 🕞) Trig: Free	e Run	Avg Type	ALIGN AUTO 2: Log-Pwr >50/50	85.4 ms (DC Cou 07:18:51 AI 174 07 1 2.206	3001 pts) upled MJan 01, 1988 E 1 2 3 4 5 6 MMMMMM P P P P P P 65 GHz	Auto Tu
Res BW	10 kHz rum Analyzer - Swi RF 50 Q ireq 1.16500	AC DOOOOO GI IF IF	Hz NO: Fast 🕞) Trig: Free	e Run	Avg Type	ALIGN AUTO 2: Log-Pwr >50/50	85.4 ms (DC Cou 07:18:51 AI 174 07 1 2.206	3001 pts) upled MJan 01, 1988 E 1 2 3 4 5 6 MMMMMM P P P P P P 65 GHz	Auto Tur Center Fr
dB/div	10 kHz rum Analyzer - Swi RF 50 Q ireq 1.16500	AC DOOOOO GI IF IF	Hz NO: Fast 🕞) Trig: Free	e Run	Avg Type	ALIGN AUTO 2: Log-Pwr >50/50	85.4 ms (DC Cou 07:18:51 AI 174 07 1 2.206	3001 pts) upled MJan 01, 1988 E 1 2 3 4 5 6 MMMMMM P P P P P P 65 GHz	Auto Tur Center Fr
dB/div	10 kHz rum Analyzer - Swi RF 50 Q ireq 1.16500	AC DOOOOO GI IF IF	Hz NO: Fast 🕞) Trig: Free	e Run	Avg Type	ALIGN AUTO 2: Log-Pwr >50/50	85.4 ms (DC Cou 07:18:51 AI 174 07 1 2.206	3001 pts) upled MJan 01, 1988 E 1 2 3 4 5 6 MMMMMM P P P P P P 65 GHz	Auto Tur Center Fr 1.16500000 G Start Fr
dB/div	10 kHz rum Analyzer - Swi RF 50 Q ireq 1.16500	AC DOOOOO GI IF IF	Hz NO: Fast 🕞) Trig: Free	e Run	Avg Type	ALIGN AUTO 2: Log-Pwr >50/50	85.4 ms (DC Cou 07:18:51 AI 174 07 1 2.206	3001 pts) upled MJan 01, 1988 E 1 2 3 4 5 6 MMMMMM P P P P P P 65 GHz	Auto Tur Center Fra 1.16500000 Gi Start Fra
dB/div	10 kHz rum Analyzer - Swi RF 50 Q ireq 1.16500	AC DOOOOO GI IF IF	Hz NO: Fast 🕞) Trig: Free	e Run	Avg Type	ALIGN AUTO 2: Log-Pwr >50/50	85.4 ms (DC Cou 07:18:51 AI 174 07 1 2.206	3001 pts) upled MJan 01, 1988 E 1 2 3 4 5 6 MMMMMM P P P P P P 65 GHz	Auto Tur Center Fr 1.16500000 G Start Fr 30.000000 M
dB/div	10 kHz rum Analyzer - Swi RF 50 Q ireq 1.16500	AC DOOOOO GI IF IF	Hz NO: Fast 🕞) Trig: Free	e Run	Avg Type	ALIGN AUTO 2: Log-Pwr >50/50	85.4 ms (DC Cou 07:18:51 AI 174 07 1 2.206	(3001 pts) apled (3001 pts) (31001,1988 (3102 pts) (3100 pts) (310	Auto Tur Center Fro 1.16500000 G Start Fro 30.000000 M Stop Fro
dB/div g dB/div g a.a a.a a.a a.a a.a a.a	10 kHz rum Analyzer - Swi RF 50 Q ireq 1.16500	AC DOOOOO GI IF IF	Hz NO: Fast 🕞) Trig: Free	e Run	Avg Type	ALIGN AUTO 2: Log-Pwr >50/50	85.4 ms (DC Cou 07:18:51 AI 174 07 1 2.206	(3001 pts) apled (3001 pts) (31001,1988 (3102 pts) (3100 pts) (310	Auto Tur Center Fr 1.165000000 Gl Start Fr 30.000000 Ml Stop Fr 2.300000000 Gl
a dB/div	10 kHz rum Analyzer - Swi RF 50 Q ireq 1.16500	AC DOOOOO GI IF IF	Hz NO: Fast 🕞) Trig: Free	e Run	Avg Type Avg Hold:	ALIGN AUTO E: Log-Pwr >50/50 MIKr	85.4 ms (DC Cou 07:18:51 A 178A 178A 178A 178A 178A 178A 178A 178	(3001 pts) apled (3001 pts) (31001,1988 (3102 pts) (3100 pts) (310	Frequency Auto Tur Center Fre 1.165000000 Gl Start Fre 30.000000 Ml Stop Fre 2.300000000 Gl CF Stop 227.00000 Ml Auto Ml
dB/div g dB/div g a.a a.a a.a a.a a.a a.a	10 kHz rum Analyzer - Swi RF 50 Q ireq 1.16500	AC DOOOO GI F IB IB IB IB IB IB IB IB IB	HZ NO: Fast Gain:Low	SEP Trig: Free #Atten: 40	e Run 0 dB		ALIGN AUTO 2: Log-Pwr >50/50	85.4 ms (DC Cou 07:18:51 A 178A 178A 178A 178A 178A 178A 178A 178	(3001 pts) apled (3001 pts) (31001,1988 (3102 pts) (3100 pts) (310	Auto Tur Center Fr 1.165000000 Gl Start Fr 30.000000 Ml Stop Fr 2.30000000 Gl CF Ste 227.000000 Ml Auto M
dB/div g dB/div g a.a a.a a.a a.a a.a a.a	10 kHz rum Analyzer - Sw RF 50 Ω Ref Offset 1 0 Ref 20.00 0	AC DOOOO GI F IB IB IB IB IB IB IB IB IB	Hz NO: Fast Gain:Low	SEP Trig: Free #Atten: 40	e Run 0 dB		ALIGN AUTO E: Log-Pwr >50/50 MIKr	85.4 ms (DC Cou 07:18:51 A 178A 178A 178A 178A 178A 178A 178A 178	(3001 pts) apled (3001 pts) (31001,1988 (3102 pts) (3100 pts) (310	Auto Tur Center Fra 1.16500000 Gl Start Fra 30.000000 Ml Stop Fra 2.30000000 Gl CF Sta 227.00000 Ml
dB/div g and b/div g and b/div and	10 kHz rum Analyzer - Sw RF 50 Ω Ref Offset 1 0 Ref 20.00 0	AC DOOOO GI F IB IB IB IB IB IB IB IB IB	Hz NO: Fast Gain:Low	SEP Trig: Free #Atten: 40	e Run 0 dB		ALIGN AUTO E: Log-Pwr >50/50 MIKr	85.4 ms (DC Cou 07:18:51 A 178A 178A 178A 178A 178A 178A 178A 178	(3001 pts) apled (3001 pts) (31001,1988 (3102 pts) (3100 pts) (310	Auto Tur Center Fr 1.165000000 G Start Fr 30.000000 M Stop Fr 2.30000000 G CF Sto 227.000000 M Auto M
dB/div g anter F anter F anter S and and and and and and and and and and	10 kHz rum Analyzer - Sw RF 50 Ω Ref Offset 1 0 Ref 20.00 0	AC DOOOO GI F IB IB IB IB IB IB IB IB IB	Hz NO: Fast Gain:Low	SEP Trig: Free #Atten: 40	e Run 0 dB		ALIGN AUTO E: Log-Pwr >50/50 MIKr	85.4 ms (DC Cou 07:18:51 A 178A 178A 178A 1797 10 11 2.206 -46.3	(3001 pts) apled (3001 pts) (31001,1988 (3102 pts) (3100 pts) (310	Auto Tur Center Fr 1.165000000 G Start Fr 30.000000 M Stop Fr 2.30000000 G CF Sto 227.000000 M Auto M
dB/div g alb/div g alb alb alb alb alb alb alb alb alb alb	10 kHz	AC DOOOO GI F IB IB IB IB IB IB IB IB IB	Hz NO: Fast Gain:Low	SEP Trig: Free #Atten: 40	e Run D dB		ALIGN AUTO ALIGN AUTO 2: Log-Pwr >505050 MIKr Align Auto Align Auto Ali	85.4 ms (DC Col 07:18:51 Al 178/4 179/ 1 2.206 -46.3 0 0 0 0 0 0 0 0 0 0 0 0 0	(3001 pts) apled (3001 pts) (31001,1988 (3102 pts) (3100 pts) (310	Auto Tur Center Fr 1.165000000 G Start Fr 30.000000 M Stop Fr 2.30000000 G CF Sto 227.000000 M Auto M

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	rum Analyzer - Swept RF 50 Ω			SEN	ISE:INT		ALIGN AUTO	07·10·04 A	M Jan 01, 1988	
	req 2.350000	000 GH:	z				e: Log-Pwr		CE 1 2 3 4 5 6 PE M WWWW	Frequency
		PN IFG	0: Fast 🖕 ain:Low	Trig: Free #Atten: 40		AvgiHold	:>200/200	D		
	Ref Offset 1 dB						M	(r1 2.34	7 3 GHz	Auto Tui
0 dB/div og	Ref 20.00 dB	m						-48.4	31 dBm	
~ "										Center Fre
10.0										2.350000000 GI
0.00										Start Fre
10.0										2.300000000 G
10.0										
20.0									-22.53 dBm	Stop Fre
										2.40000000 G
30.0										
40.0										CF Ste
40.0				1						10.000000 MI
50.0 miletante	Way at a second and a second	ikayantan (_M a	ht wall and the second	entrative and the	Hunnaha	174MLbertonetyth		at total at the	walawwaka wadi	<u>Auto</u> M
	Anti-Mile 1 - March 14 and Mi		a state of a second							Erog Offe
50.0										Freq Offs
70.0										
	0000 GHz		#VBW	(300 kHz			Sween 9	600 ms (0000 GHz (1001 nts)	
	0000 GHz 100 kHz		#VBW	/ 300 kHz			Sweep 9	.600 ms (0000 GHZ (1001 pts)	
Res BW	100 kHz	SA .	#VBW	/ 300 kHz				.600 ms (0000 GH2 (1001 pts)	
Res BW sg gilent Spect	100 KHz rum Analyzer - Swept RF 50 Q	AC			vse:int		STATUS	.600 ms ((1001 pts) MJan 01, 1988	Frequency
Res BW sg gilent Spect	100 KHz rum Analyzer - Swept	AC 000 GH: PN	Z 0: Fast C) Trig: Free	NSE:INT	Avg Type	STATUS	.600 ms ((1001 pts) MJan 01, 1988	Frequency
Res BW sg gilent Spect	100 KHz rum Analyzer - Swept RF 50 Q	AC 000 GH: PN	Z	SEM	NSE:INT	Avg Type	ALIGNAUTO e: Log-Pwr >200/200	07:19:13 A	(1001 pts) MJan 01, 1988 CE 123456 PE MWWWW ET P P P P P	
Res BW sg gilent Spect RL Center F	rum Analyzer - Swept RF 50 2 Freq 2.4917500 Ref Offset 1 dB	AC 000 GH: PN: IFG:	Z 0: Fast C) Trig: Free	NSE:INT	Avg Type	ALIGNAUTO e: Log-Pwr >200/200	.600 ms (07:19:13 A TRAG TY D .499 67	(1001 pts) MJan 01, 1988 CE 1 2 3 4 5 6 PE MWWWW ET P P P P P 0 0 GHz	
Res BW gilent Spect RL center F	rum Analyzer - Swept RF 50 Q Freq 2.491750	AC 000 GH: PN: IFG:	Z 0: Fast C) Trig: Free	NSE:INT	Avg Type	ALIGNAUTO e: Log-Pwr >200/200	.600 ms (07:19:13 A TRAG TY D .499 67	(1001 pts) MJan 01, 1988 CE 123456 PE MWWWW ET P P P P P	
Res BW gilent Spect RL enter F	rum Analyzer - Swept RF 50 2 Freq 2.4917500 Ref Offset 1 dB	AC 000 GH: PN: IFG:	Z 0: Fast C) Trig: Free	NSE:INT	Avg Type	ALIGNAUTO e: Log-Pwr >200/200	.600 ms (07:19:13 A TRAG TY D .499 67	(1001 pts) MJan 01, 1988 CE 1 2 3 4 5 6 PE MWWWW ET P P P P P 0 0 GHz	Auto Tur Center Fra
Res BW gilent Spect RL enter F	rum Analyzer - Swept RF 50 2 Freq 2.4917500 Ref Offset 1 dB	AC 000 GH: PN: IFG:	Z 0: Fast C) Trig: Free	NSE:INT	Avg Type	ALIGNAUTO e: Log-Pwr >200/200	.600 ms (07:19:13 A TRAG TY D .499 67	(1001 pts) MJan 01, 1988 CE 1 2 3 4 5 6 PE MWWWW ET P P P P P 0 0 GHz	Auto Tur Center Fra
Res BW gilent Spect RL Center F 10.0	rum Analyzer - Swept RF 50 2 Freq 2.4917500 Ref Offset 1 dB	AC 000 GH: PN: IFG:	Z 0: Fast C) Trig: Free	NSE:INT	Avg Type	ALIGNAUTO e: Log-Pwr >200/200	.600 ms (07:19:13 A TRAG TY D .499 67	(1001 pts) MJan 01, 1988 CE 1 2 3 4 5 6 PE MWWWW ET P P P P P 0 0 GHz	Auto Tur Center Fro
Res BW sg gilent Spect	rum Analyzer - Swept RF 50 2 Freq 2.4917500 Ref Offset 1 dB	AC 000 GH: PN: IFG:	Z 0: Fast C) Trig: Free	NSE:INT	Avg Type	ALIGNAUTO e: Log-Pwr >200/200	.600 ms (07:19:13 A TRAG TY D .499 67	(1001 pts) MJan 01, 1988 CE 1 2 3 4 5 6 PE MWWWW ET P P P P P 0 0 GHz	Auto Tur Center Fra 2.491750000 Gi Start Fra
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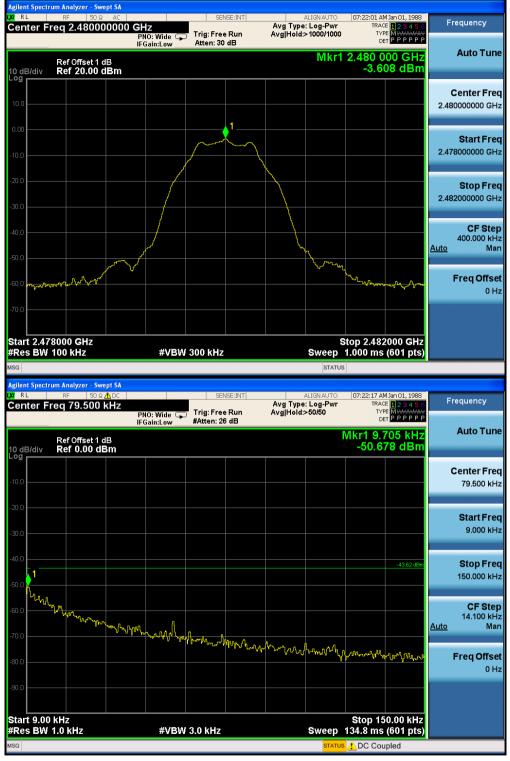
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4.8.1.6 GFSK 2M_Highest Channel



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GILENT Spectry gilent Spectry RL Center F Conter F	rum Analyzer - Swept SA RF 50 2 AC Freq 1.16500000 Ref Offset 1 dB Ref 20.00 dBm 	0 GHz PN0: Fast IFGain:Low	Trig: Free F #Atten: 40 d	Run / dB		STATUS	DC Cor D7:23:01 A TRA TY D1 2.218 -46.0	Man 01, 1988 E 1 2 3 4 5 6 P P P P P P P 28 GHz 94 dBm -23 62 dBm -23 62 dBm 1 -23 62 dBm 1 -23 62 dBm -23 62 dBm	Auto Tur Center Fre 1.165000000 GH Start Fre 30.000000 MH Stop Fre 2.300000000 GH 2.30000000 GH 2.27.00000 MH Auto Ma
GILENT Spectry gilent Spectry RL Center F Conter F	rum Analyzer - Swept SA RF 50 & AC Freq 1.16500000 Ref Offset 1 dB Ref 20.00 dBm	O GHz PNO: Fast IFGain:Low	Trig: Free F #Atten: 40 d	Run / dB		STATUS	DC Cor D7:23:01 A TRA TY D1 2.218 -46.0	Man 01, 1988 EF El 2 3 4 5 6 P P P P P P P 28 GHz 94 dBm 	Auto Tur Center Fre 1.165000000 GH Start Fre 30.000000 MH Stop Fre 2.300000000 GH CF Ste 227.000000 MH Auto Ma Freq Offse

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	req 2.3500	00000 G	PNO: Fast 😱	Trig: Free	Run		e: Log-Pwr	TRAC	Dan DI, 1988 2 1 2 3 4 5 6 PE M WAAAAAAA ET P P P P P P	Frequency
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Res BW	100 kHz	wont SA	#VBW	300 kHz			Sweep 9	,	(1001 pts)	
es BW	100 kHz rum Analyzer - Sw RF 50 S	Ω AC			SE:INT		STATUS	07:23:23 Al	M Jan 01, 1988	Frequency
es BW	100 kHz rum Analyzer - Sv	2 AC 50000 G	Hz PNO: Fast 😱	SEN:	Run		STATUS	07:23:23 Al		Frequency
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dB/div	100 kHz rum Analyzer - Sv RF 50 S req 2.4917 Ref Offset 1	2 AC 50000 G IF	Hz PNO: Fast 😱	SEN: Trig: Free	Run	Avg Type	ALIGNAUTO 2: Log-Pwr >200/200	07:23:23 AI TRAC TYI 01 .492 630	MJan 01, 1988 22 1 2 3 4 5 6 PE MWANNAN ET P P P P P P 0 0 GHz	Auto Tu Center Fr 2.491750000 G Start Fr
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	um Analyzer - Swep								
Center Fi	RF 50 Ω req 14.50000			ISE:INT	Avg Type	ALIGNAUTO : Log-Pwr	TRAC	1 Jan 01, 1988 E <mark>1 2 3 4 5 6</mark>	Frequency
		PNO: Fa IFGain:Le	st 🕞 Trig: Free ow #Atten: 40		Avg Hold:		DE	E MWWWWW T P P P P P P	A
10 dB/div Log	Ref Offset 1 dE Ref 20.00 dE					Μ	kr1 26.4 -38.90	55 GHz 03 dBm	Auto Tune
10.0									Center Freq 14.50000000 GHz
-10.0									Start Freq 2.500000000 GHz
-20.0								-23.62 dBm	Stop Freq 26.500000000 GHz
-40.0		Minere Lingth (Minere Lingth)	ten beref na iller gred teller	and the strengt of the	^a lipitatis, itanj				CF Step 2.400000000 GHz <u>Auto</u> Man
-60.0									Freq Offset 0 Hz
-70.0									
Start 2.50 #Res BW		#	VBW 300 kHz			Sweep	Stop 20 2.294 s (3	6.50 GHz 8001 pts)	
MSG						STATUS	3		

Remark:

Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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Test Requirement:	47 CFR Part 15C Sectio	n 15.209 and 15.2	205						
Test Method:	47 CFR Part 15C Section 15.209 and 15.205 ANSI C63.10 :2013 Section 11.12								
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)								
	Frequency	Detector	RBW	VBW	Remark				
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak				
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average				
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak				
Dessiver Setur	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak				
Receiver Setup:	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average				
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak				
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak				
		Peak	1MHz	3MHz	Peak				
	Above 1GHz	Peak	1MHz	10Hz	Average				
	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)				
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300				
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30				
	1.705MHz-30MHz	30	-	-	30				
	30MHz-88MHz	100	40.0	Quasi-peak	3				
Limit:	88MHz-216MHz	150	43.5	Quasi-peak	3				
	216MHz-960MHz	200	46.0	Quasi-peak	3				
	960MHz-1GHz	500	54.0	Quasi-peak	3				
	Above 1GHz	500	54.0	Average	3				
	Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.								

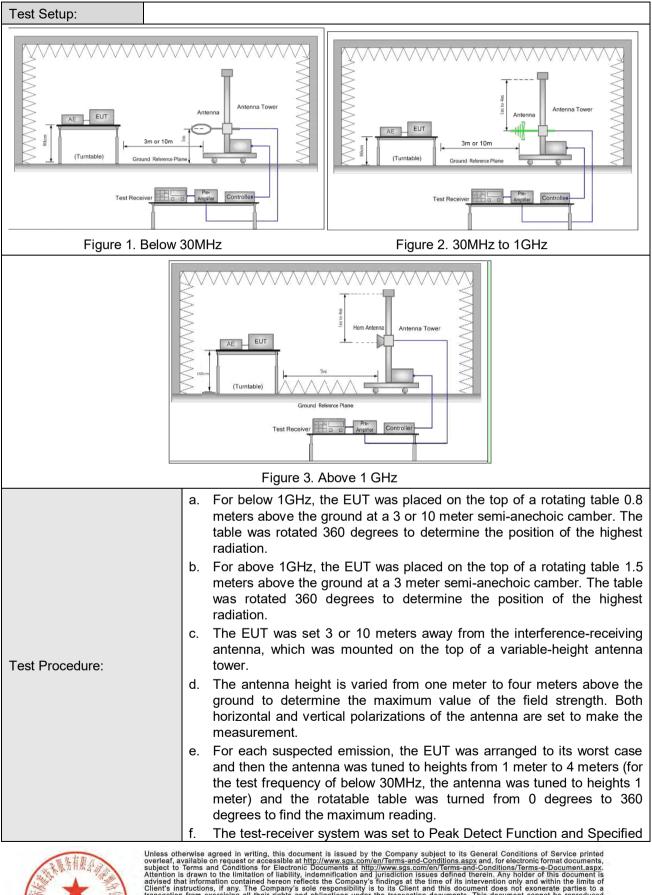
4.9 Radiated Spurious Emission

SG



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

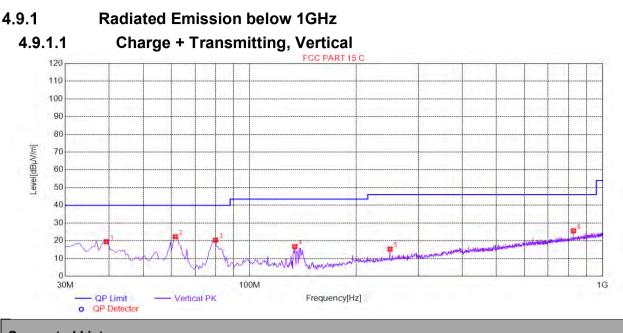
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	Bandwidth with Maximum Hold Mode.				
	 g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not 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 (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz) 				
	 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.				
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.				
Final Test Mode: Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is channel. Only the worst case is recorded in the report.					
Instruments Used:	Refer to section 5.10 for details.				
Test Results:	Pass				



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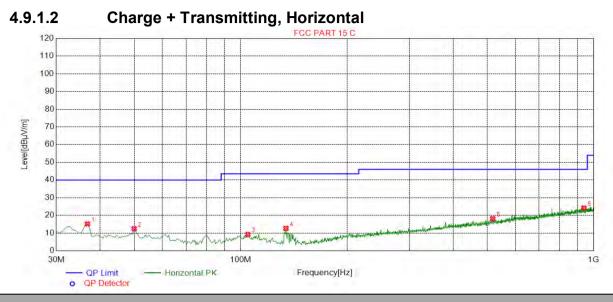


Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	39.2196	19.49	-31.41	40.00	20.51	100	67	Vertical			
2	61.5408	22.30	-32.04	40.00	17.70	200	169	Vertical			
3	79.9800	20.34	-35.88	40.00	19.66	200	352	Vertical			
4	134.3272	16.74	-34.97	43.50	26.76	100	195	Vertical			
5	249.8149	15.34	-29.27	46.00	30.66	100	251	Vertical			
6	826.7684	25.65	-16.48	46.00	20.35	100	116	Vertical			



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Suspe	Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	36.7934	15.18	-32.19	40.00	24.82	200	327	Horizontal				
2	49.8949	12.47	-30.18	40.00	27.53	200	310	Horizontal				
3	104.7274	9.21	-31.68	43.50	34.29	100	15	Horizontal				
4	134.3272	12.63	-34.97	43.50	30.87	200	225	Horizontal				
5	517.6688	18.17	-22.24	46.00	27.83	100	91	Horizontal				
6	938.8594	24.16	-14.64	46.00	21.84	200	31	Horizontal				



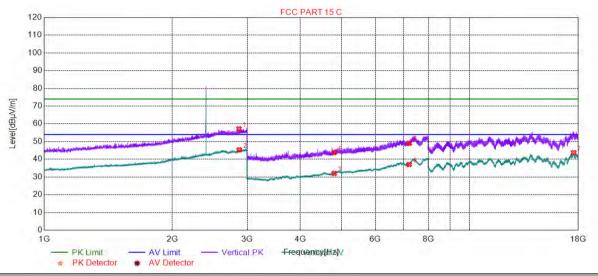
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4.9.2 Transmitter Emission above 1GHz

4.9.2.1 GFSK _Lowest Channel_ Vertical

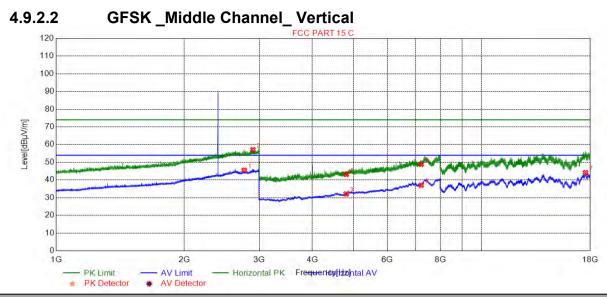


Susp	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2867.9670	57.18	11.16	74.00	16.82	150	53	Vertical			
2	2873.9685	45.33	11.21	54.00	8.67	150	26	Vertical			
3	4804.0000	32.03	-14.99	54.00	21.97	150	210	Vertical			
4	4804.0000	43.84	-14.99	74.00	30.16	150	45	Vertical			
5	7206.0000	49.05	-7.05	74.00	24.95	150	45	Vertical			
6	7206.0000	37.06	-7.05	54.00	16.94	150	18	Vertical			
7	17551.4776	43.75	1.01	54.00	10.25	150	240	Vertical			



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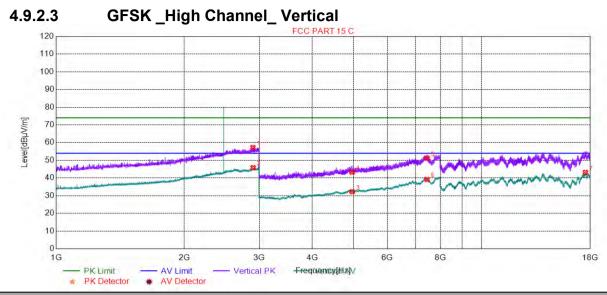


Suspe	Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	2766.4416	45.54	10.44	54.00	8.46	150	320	Horizontal				
2	2900.4751	57.11	11.41	74.00	16.89	150	293	Horizontal				
3	4804.0000	32.11	-14.99	54.00	21.89	150	360	Horizontal				
4	4804.0000	43.18	-14.99	74.00	30.82	150	127	Horizontal				
5	7206.0000	48.91	-7.05	74.00	25.09	150	127	Horizontal				
6	7206.0000	37.00	-7.05	54.00	17.00	150	127	Horizontal				
7	17545.4773	44.15	0.93	54.00	9.85	150	89	Horizontal				



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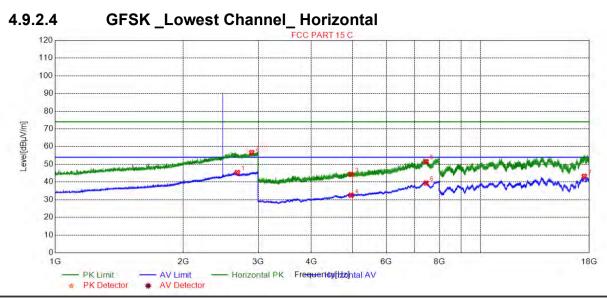
Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2900.4751	57.21	11.41	74.00	16.79	150	191	Vertical			
2	2902.9757	45.80	11.41	54.00	8.20	150	232	Vertical			
3	4960.0000	32.23	-14.23	54.00	21.77	150	46	Vertical			
4	4960.0000	43.29	-14.23	74.00	30.71	150	348	Vertical			
5	7440.0000	51.18	-5.89	74.00	22.82	150	211	Vertical			
6	7440.0000	39.17	-5.89	54.00	14.83	150	321	Vertical			
7	17537.9769	43.16	0.84	54.00	10.84	150	241	Vertical			



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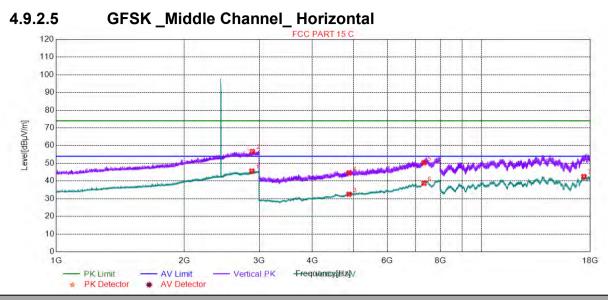
Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2680.4201	45.33	10.12	54.00	8.67	150	238	Horizontal			
2	2896.9742	56.68	11.39	74.00	17.32	150	184	Horizontal			
3	4960.0000	44.29	-14.23	74.00	29.71	150	319	Horizontal			
4	4960.0000	32.51	-14.23	54.00	21.49	150	319	Horizontal			
5	7440.0000	51.50	-5.89	74.00	22.50	150	346	Horizontal			
6	7440.0000	39.40	-5.89	54.00	14.60	150	182	Horizontal			
7	17519.4760	43.22	0.60	54.00	10.78	150	342	Horizontal			



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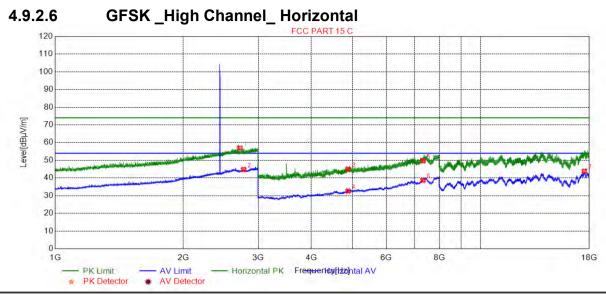
Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2883.9710	45.57	11.29	54.00	8.43	150	123	Vertical			
2	2890.9727	56.71	11.34	74.00	17.29	150	109	Vertical			
3	4880.0000	32.50	-14.65	54.00	21.50	150	129	Vertical			
4	4880.0000	44.51	-14.65	74.00	29.49	150	294	Vertical			
5	7320.0000	50.29	-6.17	74.00	23.71	150	74	Vertical			
6	7320.0000	38.73	-6.17	54.00	15.27	150	294	Vertical			
7	17383.4692	42.48	-1.02	54.00	11.52	150	141	Vertical			



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Susp	Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2717.4294	56.96	10.14	74.00	17.04	150	344	Horizontal		
2	2772.4431	44.80	10.47	54.00	9.20	150	30	Horizontal		
3	4880.0000	45.01	-14.65	74.00	28.99	150	45	Horizontal		
4	4880.0000	32.65	-14.65	54.00	21.35	150	154	Horizontal		
5	7320.0000	49.69	-6.17	74.00	24.31	150	210	Horizontal		
6	7320.0000	38.72	-6.17	54.00	15.28	150	345	Horizontal		
7	17528.9764	43.85	0.72	54.00	10.15	150	0	Horizontal		

Remark:

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

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

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

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邮编: 518057 t (86-755) 26012053 f (86-755) 26710594

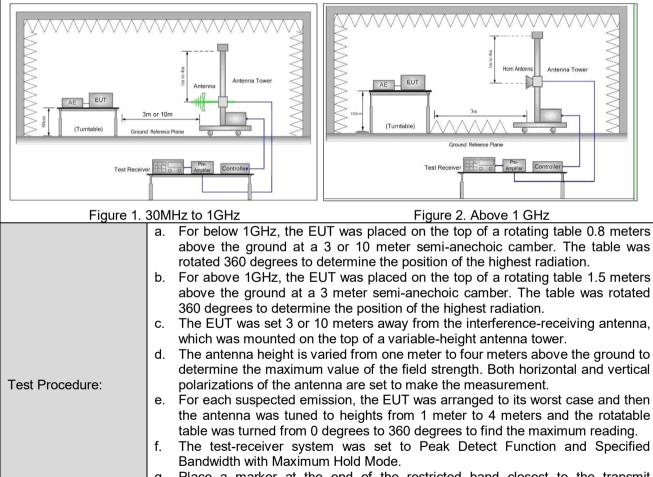
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4.10 Restricted bands around fundamental frequency

			-					
Test Requirement:	47 CFR Part 15C Sectio	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10: 2013 Sec	ANSI C63.10: 2013 Section 11.12						
Test Site:	Measurement Distance:	3m or 10m (Semi-Anechoic	Chamber)					
	Frequency	Limit (dBuV/m @3m)	Remark					
	30MHz-88MHz	40.0	Quasi-peak Value					
	88MHz-216MHz	43.5	Quasi-peak Value					
Limit:	216MHz-960MHz	46.0	Quasi-peak Value					
	960MHz-1GHz	54.0	Quasi-peak Value					
	Above 1GHz	54.0	Average Value					
	Above IGHZ	74.0	Peak Value					

Test Setup:



g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel

h. Test the EUT in the lowest channel, the Highest channel



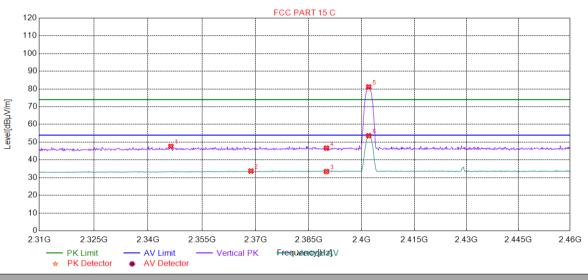


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	 The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass

4.10.1 Test plots

4.10.1.1 Worst Case Mode (GFSK) Lowest Channel_ Vertical



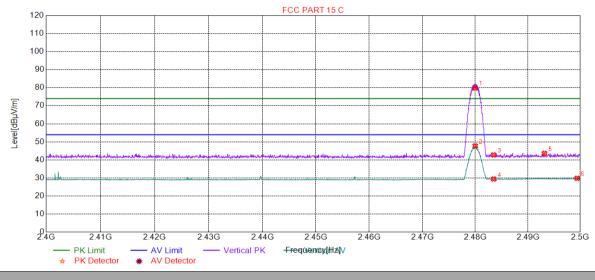
Suspe	Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2346.3363	47.65	9.05	74.00	26.35	150	58	Vertical		
2	2368.7087	33.72	9.13	54.00	20.28	150	188	Vertical		
3	2390.0000	33.44	9.20	54.00	20.56	150	306	Vertical		
4	2390.0000	46.64	9.20	74.00	27.36	150	79	Vertical		
5	2402.0000	81.15	9.24	74.00	-7.15	150	155	Vertical		
6	2402.0000	53.68	9.24	54.00	0.32	150	331	Vertical		



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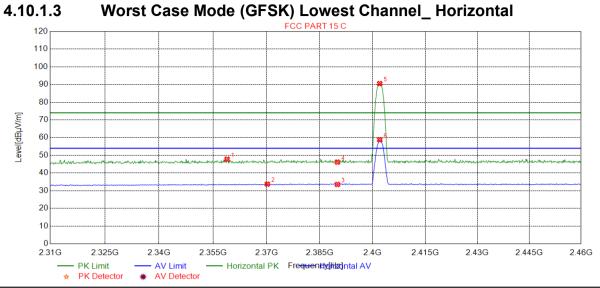
4.10.1.2 Worst Case Mode (GFSK) Highest Channel_ Vertical

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.0000	79.89	9.49	74.00	-5.89	150	142	Vertical
2	2480.0000	47.73	9.49	54.00	6.27	150	158	Vertical
3	2483.5000	42.78	9.50	74.00	31.22	150	131	Vertical
4	2483.5000	29.42	9.50	54.00	24.58	150	15	Vertical
5	2493.1466	43.63	9.53	74.00	30.37	150	4	Vertical
6	2499.3997	29.83	9.55	54.00	24.17	150	36	Vertical



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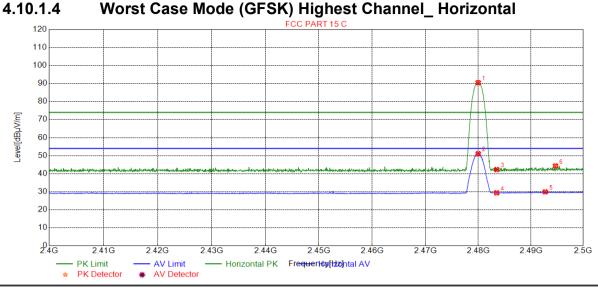


Susp	Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2358.9489	47.81	9.09	74.00	26.19	150	225	Horizontal		
2	2370.2102	33.70	9.13	54.00	20.30	150	212	Horizontal		
3	2390.0000	33.53	9.20	54.00	20.47	150	225	Horizontal		
4	2390.0000	46.15	9.20	74.00	27.85	150	341	Horizontal		
5	2402.0000	90.53	9.24	74.00	-16.53	150	74	Horizontal		
6	2402.0000	58.75	9.24	54.00	-4.75	150	66	Horizontal		



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Suspe	Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2480.0000	90.46	9.49	74.00	-16.46	150	73	Horizontal	
2	2480.0000	51.04	9.49	54.00	2.96	150	84	Horizontal	
3	2483.5000	42.25	9.50	74.00	31.75	150	162	Horizontal	
4	2483.5000	29.34	9.50	54.00	24.66	150	14	Horizontal	
5	2492.7464	29.89	9.53	54.00	24.11	150	41	Horizontal	
6	2494.6973	44.26	9.53	74.00	29.74	150	333	Horizontal	

Remark:

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 All Modes have been tested, but only the worst case data displayed in this report.



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5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty		
1	Total RF power, conducted	±0.75dB		
2	RF power density, conducted	±2.84dB		
3	Spurious emissions, conducted	±0.75dB		
4	Radiated Spurious emission test	±4.5dB (30MHz-1GHz)		
4	Radiated Spundus emission test	±4.8dB (1GHz-25GHz)		
5	Conduct emission test	±3.12 dB(9KHz- 30MHz)		
6	Temperature test	±1°C		
7	Humidity test	±3%		
8	DC and low frequency voltages	±0.5%		



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6 Equipment List

	Conducted Emission							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Duedate			
Test Equipment	Wallulacturer	Woder No.	inventory No.	(yyyy-mm-dd)	(yyyy-mm-dd)			
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2017/5/10	2020/5/9			
LISN	Rohde & Schwarz	ENV216	SEM007-01	2019/7/14	2020/7/14			
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2019/4/1	2020/3/31			
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM024-01	2019/6/12	2020/6/11			
2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2019/2/11	2020/2/10			
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2019/3/2	2020/3/1			
	RF co	onducted test						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Duedate			
Test Equipment	Wallulactuler	wouel No.	inventory NO.	(yyyy-mm-dd)	(yyyy-mm-dd)			
DC Power Supply	Agilent Technologies Inc	66311B	W009-09	2019/7/15	2020/7/15			

	RF conducted test									
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Duedate					
rest Equipment	Wallulacturei	Woder No.	inventory No.	(yyyy-mm-dd)	(yyyy-mm-dd)					
DC Power Supply	Agilent Technologies Inc	66311B	W009-09	2019/7/15	2020/7/15					
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2019/1/13	2020/1/12					
Coaxial Cable	SGS	N/A	SEM031-01	2019/6/12	2020/6/11					
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A					
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019/7/14	2020/7/14					
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2019/10/27	2020/10/27					
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019/7/14	2020/7/14					
	RE in Chamber									

Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date			
rest Equipment	Wallulacturer	WOUELING.	inventory No.	(yyyy-mm-dd)	(yyyy-mm-dd)			
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017/8/5	2020/8/4			
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM025-01	2019/6/12	2020/6/11			
MXE EMI Receiver (20Hz- 8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2019/7/14	2020/7/14			
BiConiLog Antenna (26- 3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017/6/27	2020/6/26			
Pre-amplifier (0.1-1.3GHz)	Agilent Technologies	8447D	SEM005-01	2019/3/2	2020/3/1			

RE in Chamber							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date		
Test Equipment	Manulacturer	Model No.	inventory No.	(yyyy-mm-dd)	(yyyy-mm-dd)		
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12		
Measurement Software	AUDIX	e3V8.2014-6-27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM026-01	2019/6/12	2020/6/11		
EXA Signal Analyzer (10Hz- 26.5GHz)	Agilent Technologies Inc	N9010A	SEM004-09	2019/3/12	2020/3/11		
BiConiLog Antenna (26- 3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017/6/27	2020/6/26		
Horn Antenna (0.8-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12		
Pre-amplifier(0.1-1.3GHz)	HP	8447D	SEM005-02	2019/7/14	2020/7/14		
Low Noise Amplifier(100MHz- 18GHz)	Black Diamond Series	BDLNA-0118- 352810	SEM005-05	2019/9/3	2020/9/2		
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017/10/17	2020/10/16		
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2019/3/2	2020/3/1		
Band filter	N/A	N/A	SEM023-01	N/A	N/A		



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RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018/3/31	2021/3/30
EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2019/3/2	2020/3/1
Trilog-Broadband Antenna(25M- 2GHz)	Schwarzbeck	VULB9168	SEM003-18	2018/3/15	2020/3/14
Pre-amplifier (9k-1GHz)	Sonoma	310N	SEM005-03	2019/3/12	2020/3/11
Loop Antenna (9kHz-30MHz)	ETS-Lindgren	6502	SEM003-08	2017/8/22	2020/8/21
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2019/6/12	2020/6/11

7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of Set-Up for ZR/2019/A0032.

The End



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