

No. 1 Workshop, M-10, Middle section, Science & Technology Park,

Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Report No.: SZEM180700671002

Fax: +86 (0) 755 2671 0594 Page: 1 of 44

TEST REPORT

Application No.: SZEM1807006710CR

Applicant: Xiamen Huoshiquan Import & Export CO., LTD

Address of Applicant: Room 703, No. 813-2 Xiahe Road, Siming District, XIAMEN China

Equipment Under Test (EUT):

EUT Name: RC quadcopter

Model No.: HS700, HS700D, HS700G, HS710, HS165, HS165G, HS165G, HS120D,

HS120G, HS130D, HS130G, HS500, HS600, HS800, HS900, HS510, HS610, HS810, HS910, HS550, HS650, HS760, HS770, HS880, HS660, HS9001, CD200D, CD600, HS500G, HS600G, HS800G, HS900G, HS510G, HS550G, HS610G, HS650G, HS660G, HS760G, HS770G, HS880G, HS910G, HS500D, HS600D, HS800D, HS900D, HS510D, HS610D, HS810D, HS910D, HS650D, HS660D, HS760D, HS770D,

HS880D, HS410, HS510, HS175, HS176, HS320, HS330 .

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

actually tested and which were electrically identical.

FCC ID: 2AJ55HOLYSTONEMJ

Standard(s): 47 CFR Part 15, Subpart C 15.249

Date of Receipt: 2018-07-26

Date of Test: 2018-07-26 to 2018-09-04

Date of Issue: 2018-09-12

Test Result: Pass*



EMC Laboratory Manager

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

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



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	Revision Record						
Version	Version Chapter Date Modifier Rema						
01		2018-09-12		Original			

Authorized for issue by:		
	Biu chen	
	Bill Chen /Project Engineer	
	EvicFu	
	Eric Fu /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 15.249	N/A	47 CFR Part 15, Subpart C 15.203	Pass		

Radio Spectrum Matter Part							
Item	Standard	Method	Requirement	Result			
20dB Bandwidth	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass			
Field Strength of the Fundamental Signal (15.249(a))	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass			
Restricted Band Around Fundamental Frequency	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.4&6.5&6.6	47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209	Pass			
Radiated Emissions	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.4&6.5&6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass			

Declaration of EUT Family Grouping:

Model No.: HS700, HS700D, HS700G, HS710, HS165, HS165G, HS165G, HS120D, HS120G, HS130D, HS130G, HS500, HS600, HS800, HS900, HS510, HS610, HS810, HS910, HS550, HS650, HS760, HS770, HS880, HS660, HS9001, CD200D, CD600, HS500G, HS600G, HS800G, HS900G, HS510G, HS550G, HS610G, HS650G, HS660G, HS760G, HS770G, HS880G, HS910G, HS600D, HS600D, HS800D, HS900D, HS510D, HS610D, HS810D, HS910D, HS650D, HS660D, HS760D, HS770D, HS880D, HS410, HS510, HS175, HS176, HS320, HS330

Only the model HS700 was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only the colour, appearance, package and assort is different.



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4 General Information

4.1 Details of E.U.T.

Power supply:	RX: Rechargeable battery 7.4V 2800mAh (Charge by USB)	
Operation Frequency	2417MHz to 2466MHz	
Modulation Type:	GFSK	
Number of Channels:	50	
Channel Spacing	1MHz	
Antenna Type	Monopole	
Antenna Gain	Antenna 1: 2dBi Antenna 2: 2dBi	
	Two antennas can not simultaneous transmission.	

Operation F	Operation Frequency each of channel						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2417MHz	14	2430MHz	28	2443MHz	40	2456MHz
2	2418MHz	15	2431MHz	29	2444MHz	41	2457MHz
3	2419MHz	16	2432MHz	30	2445MHz	42	2458MHz
4	2420MHz	17	2433MHz	31	2446MHz	43	2459MHz
5	2421MHz	19	2434MHz	32	2447MHz	44	2460MHz
6	2422MHz	20	2435MHz	33	2448MHz	45	2461MHz
7	2423MHz	21	2436MHz	34	2449MHz	46	2462MHz
8	2424MHz	22	2437MHz	35	2450MHz	47	2463MHz
9	2425MHz	23	2438MHz	36	2451MHz	48	2464MHz
10	2426MHz	24	2439MHz	37	2452MHz	49	2465MHz
11	2427MHz	25	2440MHz	38	2453MHz	50	2466MHz
12	2428MHz	26	2441MHz	39	2454MHz		
13	2429MHz	27	2442MHz	37	2455MHz		

Note:

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

Channel	Frequency
The Lowest channel(CH1)	2417MHz
The Middle channel(CH27)	2442MHz
The Highest channel(CH50)	2466MHz

4.2 Description of Support Units

The EUT has been tested as an independent unit.



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4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 7.25 x 10 ⁻⁸
2	Duty cycle	± 0.37%
3	Occupied Bandwidth	± 3%
4	RF conducted power	± 0.75dB
5	RF power density	± 2.84dB
6	Conducted Spurious emissions	± 0.75dB
7	DE Dadiated values	± 4.5dB (below 1GHz)
/	RF Radiated power	± 4.8dB (above 1GHz)
8	Dedicted Cruvious emission test	± 4.5dB (Below 1GHz)
0	Radiated Spurious emission test	± 4.8dB (Above 1GHz)
9	Temperature test	± 1 ℃
10	Humidity test	± 3%
11	Supply voltages	± 1.5%
12	Time	± 3%



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4.4 Test Location

All tests were performed at:

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

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

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

No tests were sub-contracted.

4.5 Test Facility

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

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC

Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

A2LA (Certificate No. 3816.01)

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

VCCI

The 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.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

20dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2017-09-27	2018-09-26
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2017-09-27	2018-09-26
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2018-07-12	2019-07-11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2017-09-27	2018-09-26
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2017-09-27	2018-09-26

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2018-07-12	2019-07-11
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2018-04-02	2019-04-01
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017-06-27	2020-06-26
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2017-09-27	2018-09-26
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118- 352810	SEM005-05	2017-09-27	2018-09-27
Pre-amplifier (18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2018-04-02	2019-04-01
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2018-04-02	2019-04-01
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2017-09-27	2018-09-26
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21
Band filter	N/A	N/A	SEM023-01	N/A	N/A



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Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2018-07-12	2019-07-11
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2018-04-02	2019-04-01
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017-06-27	2020-06-26
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2017-09-27	2018-09-26
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118- 352810	SEM005-05	2017-09-27	2018-09-27
Pre-amplifier (18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2018-04-02	2019-04-01
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2018-04-02	2019-04-01
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2017-09-27	2018-09-26
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21
Band filter	N/A	N/A	SEM023-01	N/A	N/A

Radiated Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A		N/A
Coaxial Cable	SGS	N/A	SEM026-01	2018-07-12	2019-07-11
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2018-04-02	2019-04-01
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017-06-27	2020-06-26
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2017-09-27	2018-09-26



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Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118- 352810	SEM005-05	2017-09-27	2018-09-27
Pre-amplifier (18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2018-04-02	2019-04-01
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2018-04-02	2019-04-01
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2017-09-27	2018-09-26
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21
Band filter	N/A	N/A	SEM023-01	N/A	N/A

General used equipment									
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date				
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2017-09-29	2018-09-28				
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2017-09-29	2018-09-28				
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2017-09-29	2018-09-28				
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2018-04-08	2019-04-07				



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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 Limit:

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.

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.

EUT Antenna:



The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna 1 is 2dBi and antenna 2 is 2dBi.



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7 Radio Spectrum Matter Test Results

7.1 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215 Test Method: ANSI C63.10 (2013) Section 6.9

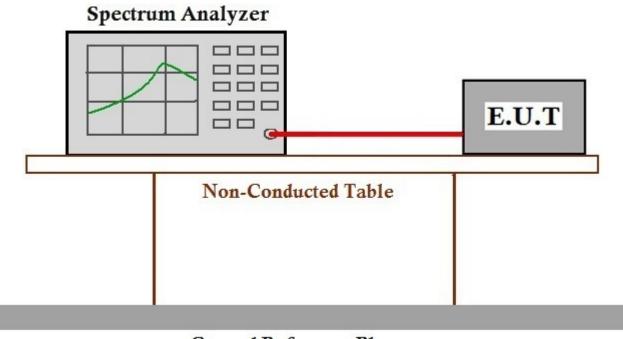
Limit: N/A

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C Humidity: 44 % RH Atmospheric Pressure: 1010 mbar Test mode: d:TX mode(2.4GHz airplane)_Keep the EUT in transmitting with modulation mode.

7.1.2 Test Setup Diagram



Ground Reference Plane

7.1.3 Measurement Procedure and Data

Pretest the EUT at antenna 1 and antenna 2 and found the antenna 2 which is worst case, So, Only the antenna 1 test data is recorded in the report.

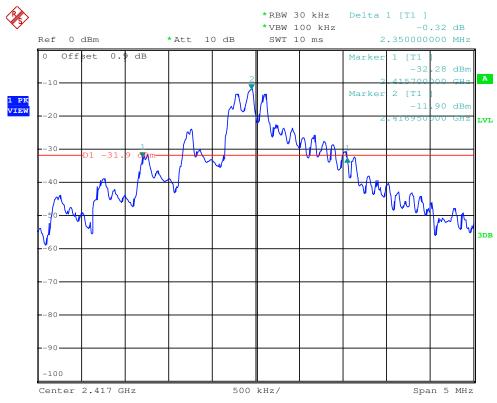
Test channel	20dB bandwidth (MHz)	Results
Lowest	2.350	Pass
Middle	1.420	Pass
Highest	2.230	Pass



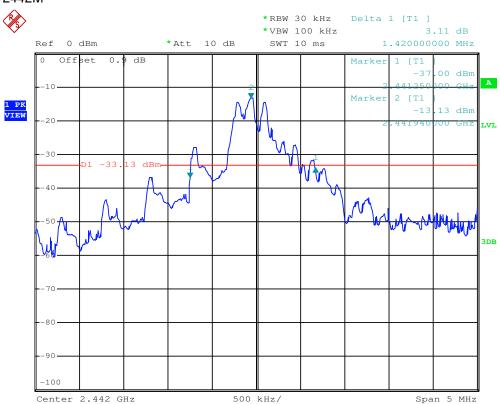
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2417M



2442M



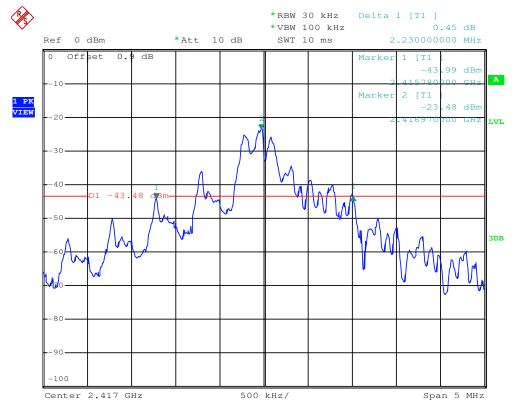
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2466M





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7.2 Field Strength of the Fundamental Signal (15.249(a))

Test Requirement 47 CFR Part 15, Subpart C 15.249(a)
Test Method: ANSI C63.10 (2013) Section 6.5&6.6

Measurement Distance: 3m

Limit:

Frequency	Limit (dBuV/m @3m)	Remark
0400MI I= 0400 EMI I=	94.0	Average Value
2400MHz-2483.5MHz	114.0	Peak Value



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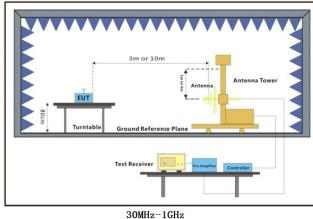
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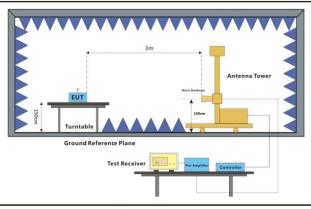
7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 55.8 % RH Atmospheric Pressure: 1000 mbar Test mode: d:TX mode(2.4GHz airplane) Keep the EUT in transmitting with modulation mode.

7.2.2 Test Setup Diagram





GHz Above 1GHz

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



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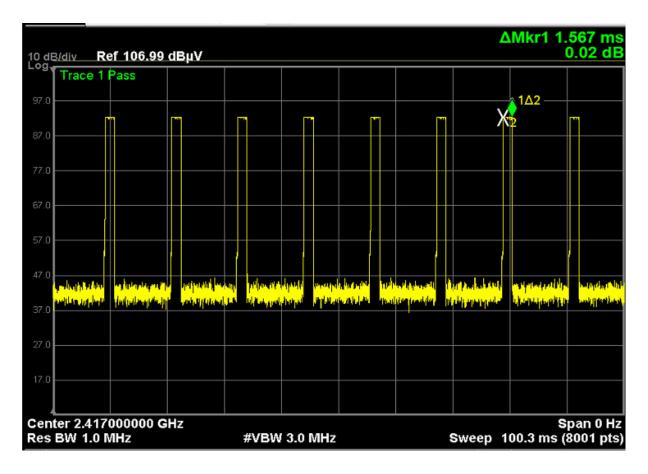
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Pretest the EUT at antenna 1 and antenna 2 and found the antenna 2 which is worst case, So, Only the antenna 1 test data is recorded in the report.

Average value:

3	
	Average value=Peak value + PDCF
Calculate Formula:	PDCF=20 log(Duty cycle)
	Duty cycle= T on time / T period
	Ton time =12.536ms
Test data:	T period =100ms
	PDCF value= -18.04dB

Duty cycle test plots:

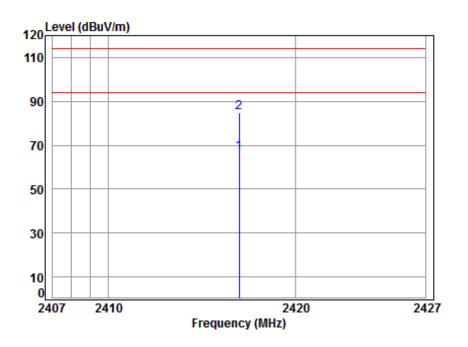




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Mode:d; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 06710CR

Mode : 2417 Field Strength

Note : Plane

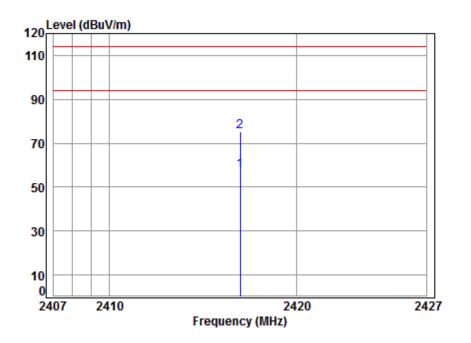
Cable Ant Preamp Read Limit 0ver Loss Factor Factor Freq Level Level Line Limit Remark dΒ MHz dB/m dΒ dBuV dBuV/m dBuV/m dB 5.51 28.56 41.88 74.57 66.76 94.00 -27.24 Average 1 pp 2417.000 2 pk 2417.000 5.51 28.56 41.88 92.61 84.80 114.00 -29.20 peak



Report No.: SZEM180700671002

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Mode:d; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 06710CR

Mode : 2147 Field Strength

Note : Plane

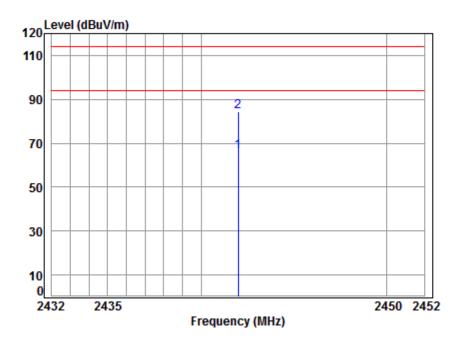
Ant Preamp Cable Read Limit 0ver Loss Factor Factor Freq Level Level Line Limit Remark dΒ MHz dB/m dΒ dBuV dBuV/m dBuV/m dB 1 pp 2417.000 5.51 28.56 41.88 65.24 57.43 94.00 -36.57 Average 5.51 28.56 41.88 83.28 75.47 114.00 -38.53 peak 2 pk 2417.000



Report No.: SZEM180700671002

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Mode:d; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 06710CR

Mode : 2442 Field Strength

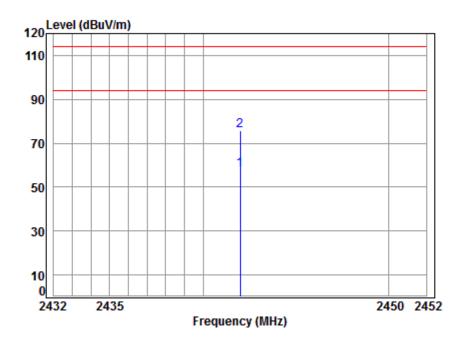
	F			Preamp					
				Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2442.000	5.54	28.61	41.89	73.99	66.25	94.00	-27.75	Average
2 pk	2442.000	5.54	28.61	41.89	92.03	84.29	114.00	-29.71	Peak



Report No.: SZEM180700671002

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Mode:d; Polarization:Vertical; Modulation:GFSK; ; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 06710CR

Mode : 2442 Field Strength

Note : Plane

2 pk 2442.000

Job No

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark dB MHz dB/m dΒ dBuV dBuV/m dBuV/m dB 5.54 28.60 41.89 65.53 57.78 94.00 -36.22 Average 1 pp 2442.000

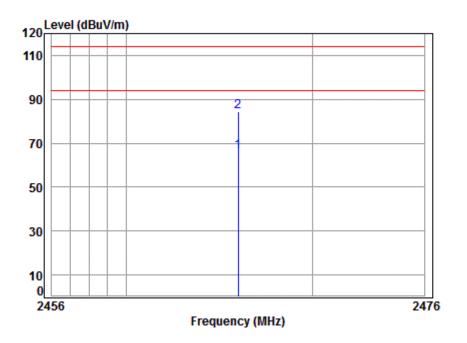
5.54 28.60 41.89 83.57 75.82 114.00 -38.18 Peak



Report No.: SZEM180700671002

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Mode:d; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 06710CR

Mode : 2466 Field Strength

Note : Plane

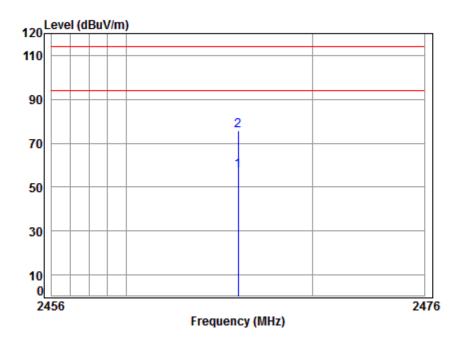
Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark dΒ MHz dB/m dΒ dBuV dBuV/m dBuV/m dB 5.58 28.65 41.90 74.03 66.36 94.00 -27.64 Average 1 pp 2466.000 2 pk 2466.000 5.58 28.65 41.90 92.07 84.40 114.00 -29.60 peak



Report No.: SZEM180700671002

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Mode:d; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m VERTICAL

Mode : 2466 Field Strength

: 06710CR

Note : Plane

2 pk 2466.000

Job No

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark dΒ MHz dB/m dΒ dBuV dBuV/m dBuV/m dB 1 pp 2466.000 5.58 28.64 41.90 65.24 57.56 94.00 -36.44 Average

5.58 28.64 41.90 83.28 75.60 114.00 -38.40 peak



Report No.: SZEM180700671002

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7.3 Restricted Band Around Fundamental Frequency

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4&6.5&6.6

Measurement Distance: 3m

Limit:

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
Above 1GHz	74.0	Peak Value

Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.



Report No.: SZEM180700671002

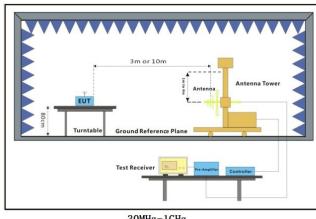
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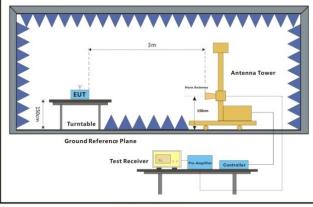
7.3.1 E.U.T. Operation

Operating Environment:

Humidity: 55.8 % RH Atmospheric Pressure: 1000 mbar Temperature: 23.5 °C Test mode: d:TX mode(2.4GHz airplane)_Keep the EUT in transmitting with modulation mode.

7.3.2 Test Setup Diagram





30MHz-1GHz

Above 1GHz

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



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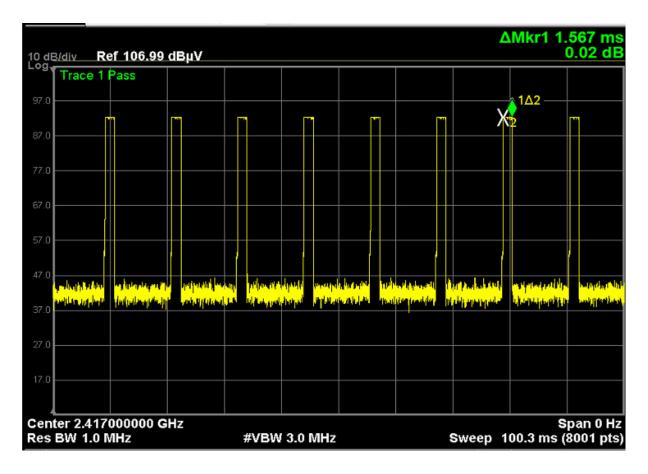
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Pretest the EUT at antenna 1 and antenna 2 and found the antenna 2 which is worst case, So, Only the antenna 1 test data is recorded in the report.

Average value:

	Average value=Peak value + PDCF
Calculate Formula:	PDCF=20 log(Duty cycle)
	Duty cycle= T on time / T period
	Ton time =12.536ms
Test data:	T period =100ms
	PDCF value= -18.04dB

Duty cycle test plots:

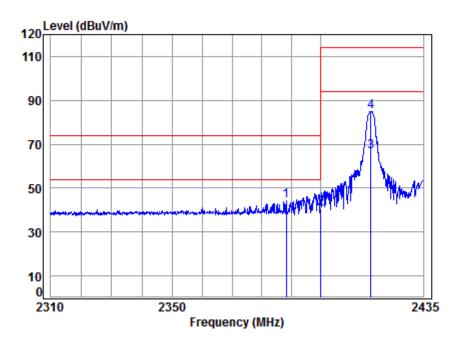




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Mode:d; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 06710CR

Mode : 2417 Band edge

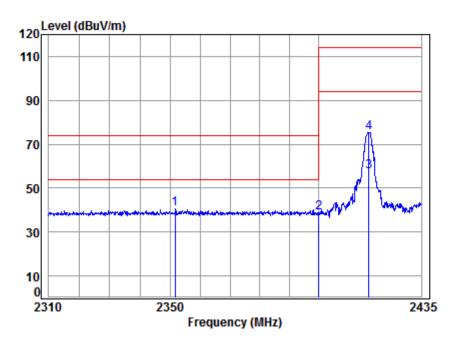
	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2388.358								•
	2400.000 2417.000								•
	2417.000								_



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Mode:d; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 06710CR Mode : 2147 Band edge

Note : Plane

1 2 3

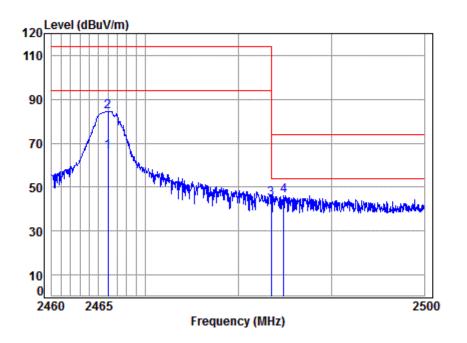
	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
pp	2351.763 2400.000								•
av	2417.000 2417.000								Average peak



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Mode:d; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 06710CR

Mode : 2466 Band edge

Note : Plane

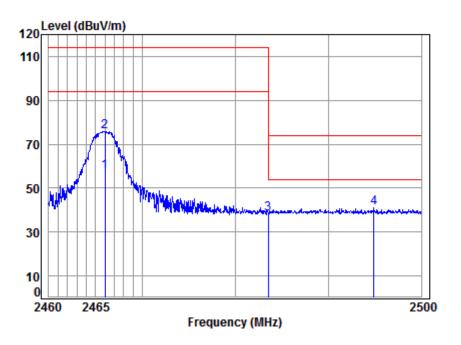
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2 3	2466.000 2466.000 2483.500 2484.844	5.58 5.60	28.65 28.67	41.90 41.90 41.91 41.91	92.07 52.35	84.40 44.71	114.00 74.00	-29.60 -29.29	peak



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Mode:d; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m VERTICAL Job No : 06710CR

Mode : 2466 Band edge

Note : Plane

_	. ria	ie								
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
av	2466.000	5.58	28.64	41.90	65.24	57.56	94.00	-36.44	Average	
	2466.000	5.58	28.64	41.90	83.28	75.60	114.00	-38.40	peak	
	2483.500	5.60	28.67	41.91	46.17	38.53	74.00	-35.47	peak	
nn	2494 884	5 61	28 69	41 92	48 54	40 92	74 99	-33 08	neak	

Remark:

1 2 3

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



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equation with a sample calculation is as follows:

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

2) The peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the above measurement data were shown in the report.



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7.4 Radiated Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)

Test Method: ANSI C63.10 (2013) Section 6.4&6.5&6.6

Limit:

Frequency(MHz)	Field strength (microvolts/meter)	Limit (dBuV/m)	Detector	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	-	-	300
0.490-1.705	24000/F(kHz)	-	-	30
1.705-30	30	-	-	30
30-88	100	40.0	QP	3
88-216	150	43.5	QP	3
216-960	200	46.0	QP	3
960-1000	500	54.0	QP	3
Above 1000	500	54.0	AV	3



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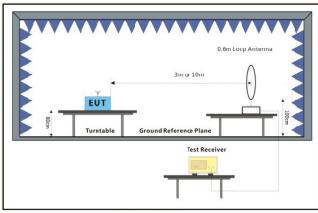
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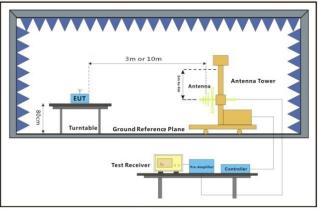
7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 55.8 % RH Atmospheric Pressure: 1000 mbar Test mode: d:TX mode(2.4GHz airplane)_Keep the EUT in transmitting with modulation mode.

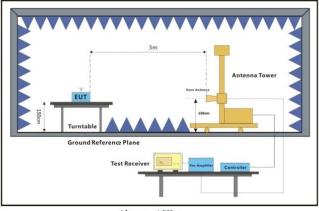
7.4.2 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 1GHz

7.4.3 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.



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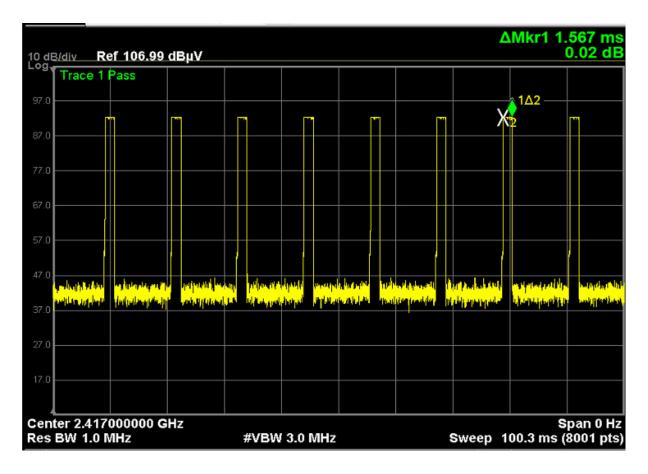
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Pretest the EUT at antenna 1 and antenna 2 and found the antenna 2 which is worst case, So, Only the antenna 1 test data is recorded in the report.

Average value:

	Average value=Peak value + PDCF					
Calculate Formula:	PDCF=20 log(Duty cycle)					
	Duty cycle= T on time / T period					
	Ton time =12.536ms					
Test data:	T period =100ms					
	PDCF value= -18.04dB					

Duty cycle test plots:



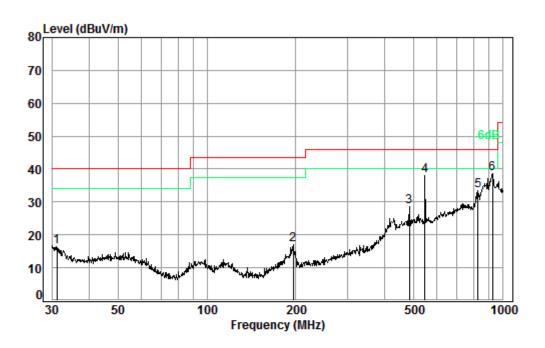


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Below 1GHz Detector:QP

Mode: d; Polarization: Horizontal



Condition: 3m HORIZONTAL

Job No. : 06710CR

Mode : d

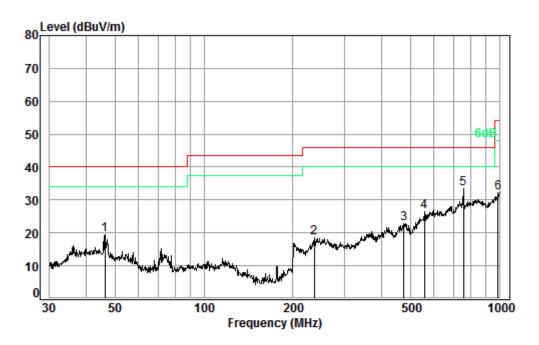
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	31.07	0.60	21.89	27.67	21.51	16.33	40.00	-23.67
2	195.82	1.39	16.38	27.53	26.72	16.96	43.50	-26.54
3	483.91	2.54	24.28	27.86	29.56	28.52	46.00	-17.48
4	545.18	2.65	25.55	27.80	37.51	37.91	46.00	-8.09
5	824.60	3.31	28.83	27.33	28.80	33.61	46.00	-12.39
6 pp	922.52	3.62	29.92	27.00	32.00	38.54	46.00	-7.46



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Mode: d; Polarization: Vertical



Condition: 3m VERTICAL Job No. : 06710CR

Mode : d

		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
_								
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	46.34	0.73	15.32	27.61	30.90	19.34	40.00	-20.66
2	235.82	1.60	18.48	27.53	26.01	18.56	46.00	-27.44
3	473.83	2.50	24.07	27.84	24.20	22.93	46.00	-23.07
4	556.77	2.66	25.78	27.77	25.94	26.61	46.00	-19.39
5 pp	755.39	3.07	28.24	27.48	29.59	33.42	46.00	-12.58
6	986.07	3.69	30.23	26.81	25.09	32,20	54.00	-21.80

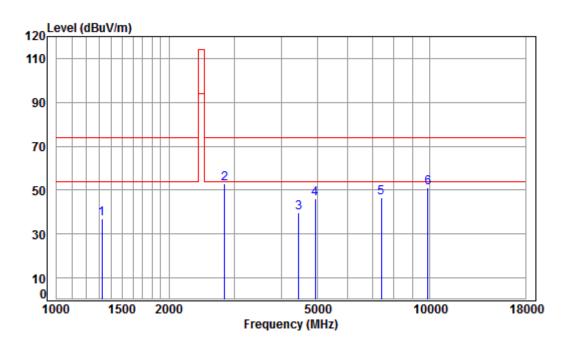


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Above 1GHz

Mode:d; Polarization:Horizontal; Channel:High



Condition: 3m HORIZONTAL

Job No : 06710CR

Mode : 2466 TX RSE

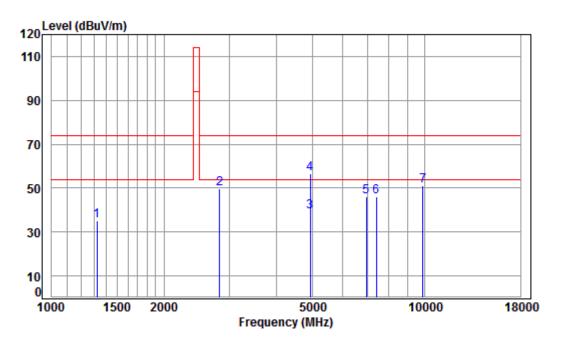
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1323.614	4.88	25.06	41.28	43.42	37.17	74.00	-36.83	peak
2 pp	2822.558	5.86	30.66	42.04	59.58	52.97	74.00	-21.03	Peak
3	4456.315	7.51	33.60	42.41	35.96	39.79	74.00	-34.21	peak
4	4932.000	8.02	34.38	42.49	41.92	46.25	74.00	-27.75	peak
5	7398.000	10.03	36.34	40.58	35.72	46.51	74.00	-27.49	peak
6	9864.000	10.87	37.57	37.38	36.86	50.92	74.00	-23.08	peak



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Mode:d; Polarization:Vertical; Channel:High



Condition: 3m VERTICAL Job No : 06710CR

Mode : 2466 TX RSE

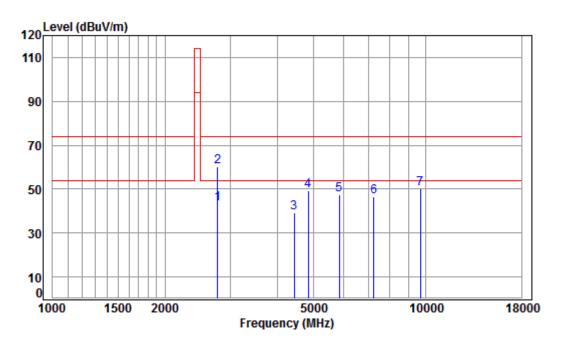
	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1323.614	4.88	25.06	41.28	42.61	34.92	74.00	-39.08	peak
2822.558	5.86	30.66	42.04	54.20	49.95	74.00	-24.05	Peak
p 4932.000	8.02	34.38	42.49	28.48	38.39	54.00	-15.61	Average
k 4932.000	8.02	34.38	42.49	46.52	56.43	74.00	-17.57	peak
6954.852	10.25	36.38	40.89	36.05	45.96	74.00	-28.04	peak
7398.000	10.03	36.34	40.58	35.51	46.30	74.00	-27.70	peak
9864.000	10.87	37.57	37.38	36.95	51.01	74.00	-22.99	peak
	MHz 1323.614 2822.558 p 4932.000 k 4932.000 6954.852 7398.000	Freq Loss MHz dB 1323.614 4.88 2822.558 5.86 p 4932.000 8.02 k 4932.000 8.02 6954.852 10.25 7398.000 10.03	Freq Loss Factor MHz dB dB/m 1323.614 4.88 25.06 2822.558 5.86 30.66 2822.558 5.86 30.66 2822.000 8.02 34.38 284 4932.000 8.02 34.38 6954.852 10.25 36.38 7398.000 10.03 36.34	Freq Loss Factor Factor MHz dB dB/m dB 1323.614 4.88 25.06 41.28 2822.558 5.86 30.66 42.04 p 4932.000 8.02 34.38 42.49 k 4932.000 8.02 34.38 42.49 6954.852 10.25 36.38 40.89 7398.000 10.03 36.34 40.58	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 1323.614 4.88 25.06 41.28 42.61 2822.558 5.86 30.66 42.04 54.20 p 4932.000 8.02 34.38 42.49 28.48 pk 4932.000 8.02 34.38 42.49 46.52 6954.852 10.25 36.38 40.89 36.05 7398.000 10.03 36.34 40.58 35.51	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 1323.614 4.88 25.06 41.28 42.61 34.92 2822.558 5.86 30.66 42.04 54.20 49.95 p 4932.000 8.02 34.38 42.49 28.48 38.39 pk 4932.000 8.02 34.38 42.49 46.52 56.43 6954.852 10.25 36.38 40.89 36.05 45.96 7398.000 10.03 36.34 40.58 35.51 46.30	Freq Loss Factor Factor Level Level Line MHz	Freq Loss Factor Factor Level Level Line Limit



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Mode:d; Polarization:Horizontal; Channel:Low



Condition: 3m HORIZONTAL

Job No : 06710CR

Mode : 2417 TX RSE

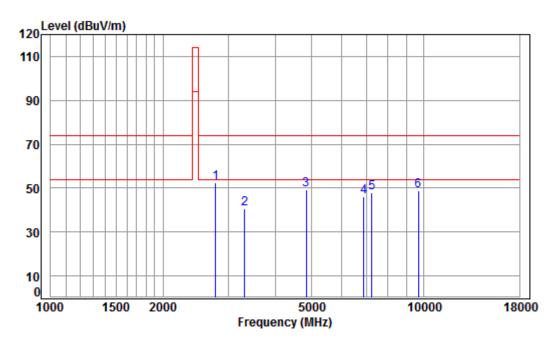
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2766.024	5.82	30.45	42.02	47.63	42.41	54.00	-11.59	Average
2 pk	2766.024	5.82	30.45	42.02	65.67	60.45	74.00	-13.55	Peak
3	4443.453	7.50	33.60	42.41	35.18	39.15	74.00	-34.85	peak
4	4834.000	7.92	34.21	42.47	40.64	49.30	74.00	-24.70	peak
5	5864.443	10.12	34.62	41.72	37.72	47.63	74.00	-26.37	peak
6	7251.000	10.06	36.40	40.68	35.91	46.69	74.00	-27.31	peak
7	9668.000	10.78	37.53	37.65	36.55	50.21	74.00	-23.79	peak



Report No.: SZEM180700671002

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Mode:d; Polarization:Vertical; Channel:Low



Condition: 3m VERTICAL Job No : 06710CR

Mode : 2417 TX RSE

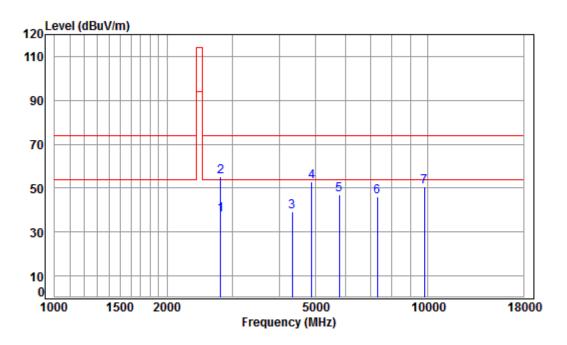
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2766.024	5.82	30.45	42.02	57.72	52.57	74.00	-21.43	Peak
2	3308.894	6.29	31.87	42.18	42.07	40.47	74.00	-33.53	peak
3	4834.000	7.92	34.21	42.47	40.58	49.24	74.00	-24.76	peak
4	6894.806	10.42	36.21	40.93	36.60	46.26	74.00	-27.74	peak
5	7251.000	10.06	36.40	40.68	37.27	48.05	74.00	-25.95	peak
6	9668 000	10 78	37 53	37 65	35 30	48 96	74 99	-25 04	neak



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Mode:d; Polarization:Horizontal; Channel:middle



Condition: 3m HORIZONTAL

Job No : 06710CR

Mode : 2442 TX RSE

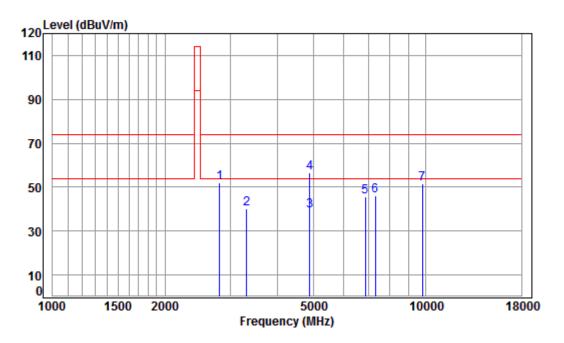
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2782.060	5.83	30.51	42.02	42.99	37.01	54.00	-16.99	Average
2 pk	2782.060	5.83	30.51	42.02	61.03	55.05	74.00	-18.95	Peak
3	4329.354	7.37	33.60	42.39	35.69	39.07	74.00	-34.93	peak
4	4884.000	7.97	34.30	42.48	43.75	52.97	74.00	-21.03	peak
5	5780.300	9.83	34.57	41.79	37.99	47.14	74.00	-26.86	peak
6	7326.000	10.04	36.37	40.63	35.19	45.97	74.00	-28.03	peak
7	9768.000	10.83	37.55	37.52	36.64	50.50	74.00	-23.50	peak



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Mode:d; Polarization:Vertical; Channel:middle



Condition: 3m VERTICAL Job No : 06710CR

Mode : 2442 TX RSE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2798.189	5.84	30.57	42.03	56.76	52.22	74.00	-21.78	Peak
2	3308.894	6.29	31.87	42.18	41.83	40.23	74.00	-33.77	peak
3 рр	4884.000	7.97	34.30	42.48	28.68	38.47	54.00	-15.53	Average
4 pk	4884.000	7.97	34.30	42.48	46.72	56.51	74.00	-17.49	peak
5	6874.906	10.47	36.16	40.94	35.93	45.51	74.00	-28.49	peak
6	7326.000	10.04	36.37	40.63	35.28	46.06	74.00	-27.94	peak
7	9768.000	10.83	37.55	37.52	37.66	51.52	74.00	-22.48	peak



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Remark:

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

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

2) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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8 Photographs

8.1 Test Setup

Refer to Setup Photos.

8.2 EUT Constructional Details (EUT Photos)

Refer to EUT external and internal photos.

- End of the Report -