



FCC PART 15.247 TEST REPORT

For

Autel Robotics Co., Ltd.

9th Floor, Bldg.B1, Zhiyuan, 1001 Xueyuan Rd., Xili, Nanshan, Shenzhen, China

FCC ID: 2AGNTMC2409A

Report Type: Original Report		Product Type: EVO II	
Report Number:	RSZ190828003	-00B	
Report Date:	2019-12-17		
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	EVO II
Tested Model	MDCS
Frequency Range	900MHz Band: 902~928 MHz 2.4GHz Band:2400~2483.5MHz
Conducted Peak Power	900MHz Band: 24.16dBm 2.4GHz Band:29.48dBm
Modulation Technique	OFDM
Antenna Specification	Integrated Antenna: 2.9 dBi for 2.4G, 2.0 dBi for 900M
Voltage Range	DC 11.55V battery
Date of Test	2019-09-06 to 2019-10-12
Sample serial number	19082800302(Assigned by BACL, Shenzhen)
Received date	2019-08-28
Sample/EUT Status	Good condition

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Objective

This report is prepared on behalf of *Autel Robotics Co., Ltd.* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Related Submittal(s)/Grant(s)

Submissions with the remote control unit of a system with FCC ID: 2AGNTEF8RC2409A.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

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Measurement Uncertainty

Parameter		Uncertainty	
Occupied Channel Bandwidth		±5%	
RF Output Power	with Power meter	±0.73dB	
RF conducted test with spectrum		±1.6dB	
AC Power Lines Conducted Emissions		±1.95dB	
Emissions,	Below 1GHz	±4.75dB	
Radiated	Above 1GHz	±4.88dB	
Temperature		±1℃	
Humidity		±6%	
Supply voltages		±0.4%	

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Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F., West Wing, Third Phase of Wanli Industrial Building, Shihua Road, Futian Free Trade Zone, Shenzhen, Guangdong, China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 342867, the FCC Designation No.: CN1221.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062B.

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

For 2.4GHz: 5MHz, 10MHz mode, 65 channels are provided to testing

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2407.5	33	2439.5
2	2408.5		
3	2409.5		
		•••••	
		64	2470.5
32	2438.5	65	2471.5

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CH1, CH33, CH65 was tested.

For 2.4GHz: 20MHz mode, 51 channels are provided to testing

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412.5	26	2437.5
2	2413.5	•••••	•••••
3	2414.5	•••••	•••••
	•••••	•••••	
•••••	•••••	50	2461.5
25	2436.5	51	2462.5

CH1, CH26, CH51 was tested.

For 900MHz: 5MHz, 10MHz mode, 13 channels are provided to testing

Channel	Annel Frequency (MHz) Channel		Frequency (MHz)
1	909	8	916
2	910	9	917
3	911	10	918
4	912	11	919
5	913	12	920
6	914	13	921
7	915	/	/

CH1, CH7, CH13 was tested.

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For 900MHz: 20MHz mode, 3 channels are provided to testing

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	914	3	916
2	915	/	/

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CH1, CH2, CH3 was tested.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

"SecureCRT" software was used during test, power level set is default.

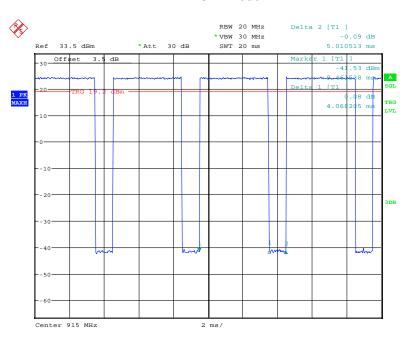
Duty cycle

For 900MHz Antenna 0:

Item	Duty Cycle (%)	T(ms)	1/T(kHz)	VBW Setting	10log(1/x)
5M Mode	81.18	4.068	0.25	300Hz	0.91
10M Mode	80.66	4.009	0.25	300Hz	0.93
20M Mode	80.10	4.000	0.25	300Hz	0.96

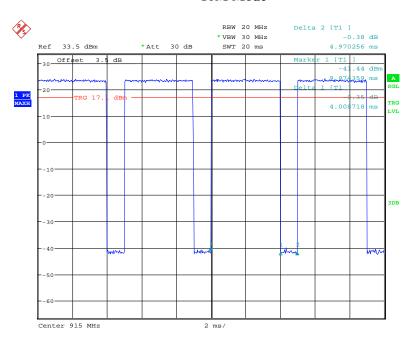
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5M Mode



Date: 9.SEP.2019 17:30:52

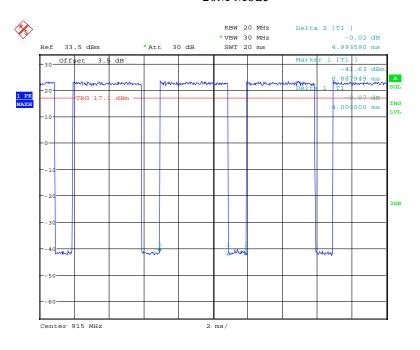
10M Mode



Date: 9.SEP.2019 15:33:01

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20M Mode



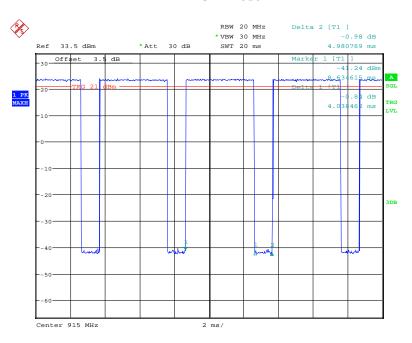
Date: 9.SEP.2019 15:34:31

For 900MHz Antenna 1:

Item	Duty Cycle (%)	T(ms)	1/T(kHz)	VBW Setting	10log(1/x)
5M Mode	81.07	4.038	0.25	300Hz	0.91
10M Mode	81.56	4.083	0.24	300Hz	0.89
20M Mode	81.15	4.056	0.25	300Hz	0.91

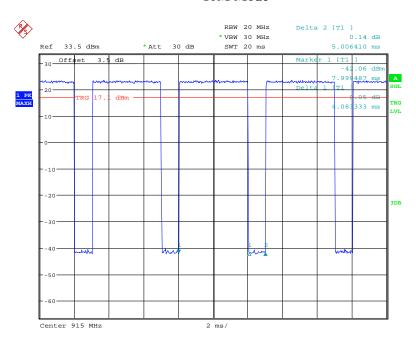
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5M Mode



Date: 12.OCT.2019 09:59:13

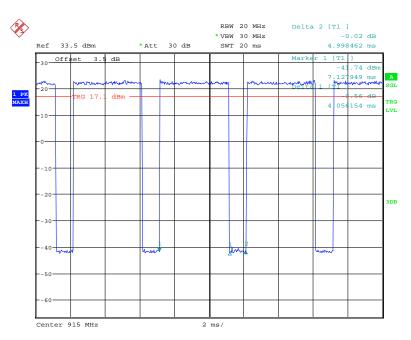
10M Mode



Date: 9.SEP.2019 14:16:53

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20M Mode

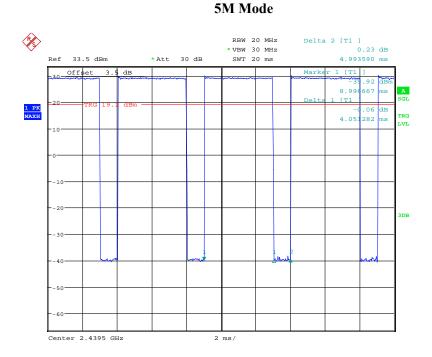


Date: 9.SEP.2019 14:20:32

For 2.4 GHz Antenna 0:

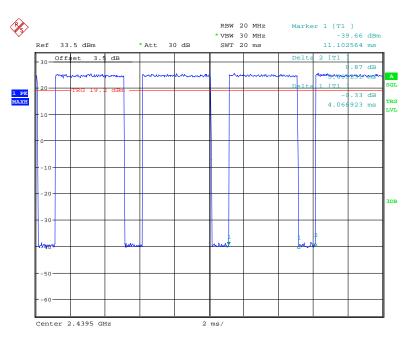
Item	Duty Cycle (%)	T(ms)	1/T(kHz)	VBW Setting	10log(1/x)
5 Mode	81.12	4.051	0.25	300Hz	0.91
10M Mode	81.19	4.067	0.25	300Hz	0.90
20M Mode	81.12	4.048	0.25	300Hz	0.91

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Date: 9.SEP.2019 16:32:32

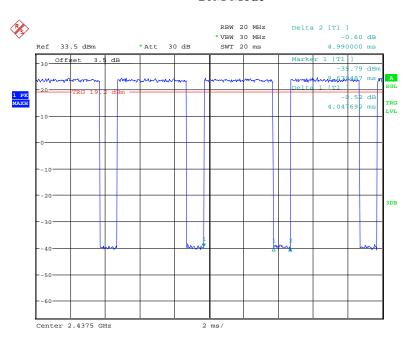
10M Mode



Date: 9.SEP.2019 16:31:22

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20M Mode



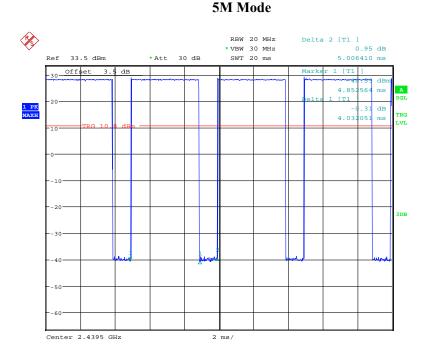
Date: 9.SEP.2019 16:30:03

For 2.4GHz Antenna 1:

Item	Duty Cycle (%)	T(ms)	1/T(kHz)	VBW Setting	10log(1/x)
5 Mode	80.54	4.032	0.25	300Hz	0.94
10M Mode	79.64	3.987	0.25	300Hz	0.99
20M Mode	81.23	4.077	0.25	300Hz	0.90

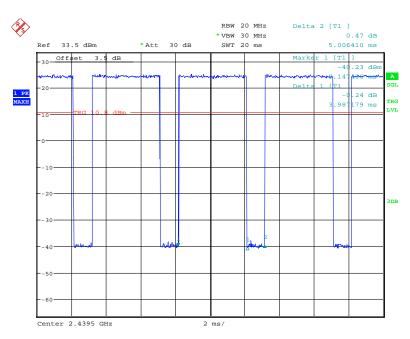
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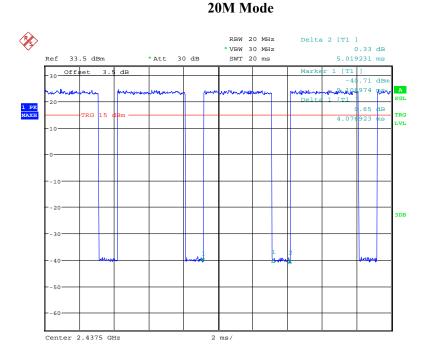
Date: 6.SEP.2019 15:51:50

10M Mode



Date: 6.SEP.2019 15:57:54

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Date: 6.SEP.2019 16:18:26

Support Equipment List and Details

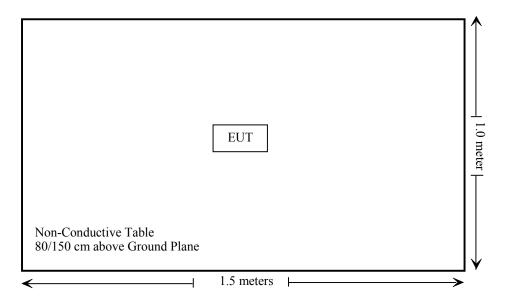
Manufacturer	Description	Model	Serial Number
N/A	N/A	N/A	N/A

External I/O Cable

Cable Description	Length (m)	From/Port	То
N/A	N/A	N/A	N/A

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Block Diagram of Test Setup



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SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §2.1091	Maximum Permissible Exposure(MPE)	Compliance
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Not Applicable
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliance
§15.247(b)(3)	Maximum Conducted Output Power	Compliance
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance
§15.247(e)	Power Spectral Density	Compliance

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Note: The EUT is power only by battery.

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TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
	Radia	nted Emission T	est		
A.H. System	Horn Antenna	SAS-200/571	135	2018-09-01	2021-08-31
Rohde & Schwarz	Spectrum Analyzer	FSV40-N	102259	2019-07-22	2020-07-21
COM-POWER	Pre-amplifier	PA-122	181919	2018-11-12	2019-11-12
Sonoma Instrument	Amplifier	310N	186238	2018-11-12	2019-11-12
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2017-12-22	2020-12-21
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2019-07-09	2020-07-08
UTiFLEX MICRO-C0AX	RF Cable	UFA147A- 2362-100100	MFR64639 231029-003	2018-11-12	2019-11-12
Ducommun technologies	RF Cable	104PEA	218124002	2018-11-12	2019-11-12
Ducommun technologies	RF Cable	RF Cable RG-214 1		2019-05-21	2019-11-19
Ducommun technologies	RF Cable	RG-214	2	2018-11-12	2019-11-12
Ducommun Technologies	Horn Antenna	ARH-4223- 02	1007726-04	2017-12-29	2020-12-28
Heatsink Required	Amplifier	QLW- 18405536-J0	15964001002	2018-11-12	2019-11-12
Sinoscite	Notch Filter	BSF2402- 2480MN- 0898-001	99632	2018-11-12	2019-11-12
Rohde & Schwarz	Auto test software	EMC 32	V9.10	NCR	NCR
	RF	Conducted Tes	t		
Rohde & Schwarz	Spectrum Analyzer	FSU26	200120	2019-03-02	2020-03-01
Agilent	USB wideband power meter	U2021XA	MY54250003	2019-07-10	2020-07-09
Ducommun technologies	RF Cable	RG-214	3	Each	Time
WEINSCHEL	3dB Attenuator	6231	666	Each	Time

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^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §15.247 (i) & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.247 (i) and subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Limits for General Population/Uncontrolled Exposure

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	Limits for General Population/Uncontrolled Exposure										
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Averaging Time (Minutes)							
0.3-1.34	614	1.63	*(100)	30							
1.34-30	824/f	2.19/f	$*(180/f^2)$	30							
30-300	27.5	0.073	0.2	30							
300-1500	/	/	f/1500	30							
1500-100,000	/	/	1.0	30							

f = frequency in MHz

Result

Calculated Formulary:

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm2)

P = power input to the antenna (in appropriate units, e.g., mW). G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

Frequency	Antenna Gain		-	conducted wer	Evaluation Distance	Power Density	MPE Limit	
(MHz)	(dBi)	(numeric)	(dBm)	(mW)	(cm)	(mW/cm^2)	(mW/cm^2)	
909-921	2.0	1.58	24.2	263.03	20	0.083	0.606	
2407.5-2471.5	2.9	2	29.5	891.25	20	0.355	1	

Note: To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliance

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^{* =} Plane-wave equivalent power density

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, 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 shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

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- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has two integrated antennas arrangement, which is permanently attached, the antenna gain is 2.9dBi for 2.4GHz and 2.0dBi for 900MHz, fulfill the requirement of this section. The 900MHz and 2.4GHz share this two antennas, please refer to the EUT photos.

The antennas use MISO mode, one antenna is used for transmitting signals and two antennas are used for receiving signals. The two antennas cannot transmit simultaneously.

Result: Compliance.

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FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

FCC §15.247 (d); §15.209; §15.205;

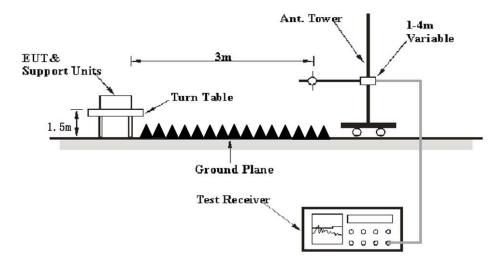
EUT Setup

Below 1 GHz:



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Above 1GHz:



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

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EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

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Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
	1MHz	3 MHz	/	PK
Above 1 GHz	1MHz	10 Hz Note 1	/	Ave.
	1MHz	>1/T Note 2	/	Ave.

Note 1: when duty cycle is no less than 98% Note 2: when duty cycle is less than 98%

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

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Test Results Summary

According to the recorded data in following table, the EUT complied with the <u>FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247</u>.

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_{\rm m} + U_{(L{\rm m})} \leq L_{\rm lim} + U_{\rm cispr}$$

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In BACL, $U_{(Lm)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

Test Data

Environmental Conditions

Temperature:	24~25 ℃
Relative Humidity:	52~56 %
ATM Pressure:	100.9~101.0 kPa

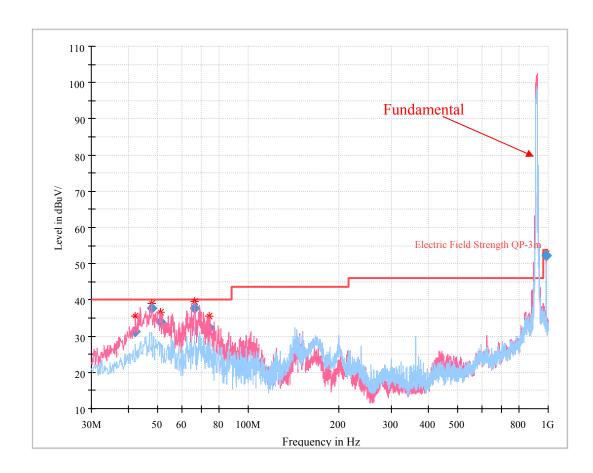
The testing was performed by Zero Yan on 2019-10-01 for below 1G and Alen He from 2019-09-25 to 2019-09-28 for above 1G.

EUT operation mode: Transmitting (Pre-scan with each antenna for 900MHz and 2.4GHz, worst case as below)

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For 900MHz:

30 MHz~1 GHz: (worst case for Antenna 0, 10M Mode, Low channel)



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Frequency (MHz)	Corrected Amplitude (dBµV/m)	Antenna height (cm)	Antenna Polarity	Turntable position (degree)	Correction Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
42.077750	31.18	102.0	V	0.0	-15.3	40.00	8.82
47.777000	37.59	103.0	V	335.0	-18.6	40.00	2.41
51.078000	33.82	109.0	V	188.0	-19.7	40.00	6.18
66.262000	37.60	111.0	V	276.0	-20.5	40.00	2.40
73.979125	32.32	111.0	V	104.0	-20.4	40.00	7.68
984.012625	52.32	102.0	V	165.0	7.3	54.00	1.68

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1 GHz-10 GHz: Antenna 0:

Antenna 0:									~ 7. 7.	
Frequency	Re	eceiver	Turntable	Rx Ar	itenna		Corrected		C Part /205/209	
(MHz)	Reading (dBµV)	PK/QP/Ave.		Height (m)	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)	
Low Channel (909 MHz) 5M Mode										
1032.16	51.44	PK	62	2.2	V	13.13	64.57	74	9.43	
1032.16	27.83	Ave.	62	2.2	V	13.13	40.96	54	13.04	
1818.00	50.11	PK	6	1.9	V	-1.55	48.56	74	25.44	
1818.00	35.73	Ave.	6	1.9	V	-1.55	34.18	54	19.82	
		M	iddle Chanr	nel (915	MHz) 5	M Mode				
1032.16	51	PK	260	1.5	V	13.13	64.13	74	9.87	
1032.16	27.97	Ave.	260	1.5	V	13.13	41.10	54	12.90	
1830.00	47.82	PK	63	2.1	V	-1.55	46.27	74	27.73	
1830.00	32.50	Ave.	63	2.1	V	-1.55	30.95	54	23.05	
		Н	ligh Channe	el (921 N	MHz) 51	M Mode				
1032.16	51.42	PK	154	2.0	V	13.13	64.55	74	9.45	
1032.16	28.12	Ave.	154	2.0	V	13.13	41.25	54	12.75	
1842.00	50.43	PK	166	1.0	V	-1.55	48.88	74	25.12	
1842.00	36.00	Ave.	166	1.0	V	-1.55	34.45	54	19.55	
		Le	ow Channel	l (909 M	(Hz) 10	M Mode				
1032.16	51.06	PK	12	2.2	V	13.13	64.19	74	9.81	
1032.16	28.11	Ave.	12	2.2	V	13.13	41.24	54	12.76	
1818.00	46.34	PK	192	1.2	V	-1.55	44.79	74	29.21	
1818.00	31.88	Ave.	192	1.2	V	-1.55	30.33	54	23.67	
		Mi	ddle Chann	el (915 l	MHz) 1	0M Mode		<u> </u>		
1032.16	51.16	PK	182	1.9	V	13.13	64.29	74	9.71	
1032.16	28.19	Ave.	182	1.9	V	13.13	41.32	54	12.68	
1830.00	45.83	PK	165	1.5	V	-1.55	44.28	74	29.72	
1830.00	32.59	Ave.	165	1.5	V	-1.55	31.04	54	22.96	
	•	H	igh Channe	l (921 M	(Hz) 10	M Mode				
1032.16	51.45	PK	312	1.3	Н	13.13	64.58	74	9.42	
1032.16	28.31	Ave.	312	1.3	Н	13.13	41.44	54	12.56	
1842.00	48.65	PK	293	1.5	V	-1.55	47.10	74	26.90	
1842.00	33.96	Ave.	293	1.5	V	-1.55	32.41	54	21.59	

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Frequency	Re	Receiver		Rx An	itenna		Corrected	15.247	C Part 7/205/209
(MHz)	Reading (dBµV)	PK/QP/Ave.	Degree	Height (m)	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)		Margin (dB)
		L	ow Channel	l (914 M	(Hz) 20	M Mode			
1032.16	51.46	PK	334	1.9	V	13.13	64.59	74	9.41
1032.16	28.13	Ave.	334	1.9	V	13.13	41.26	54	12.74
1828.00	45.93	PK	274	1.5	V	-1.55	44.38	74	29.62
1828.00	31.22	Ave.	274	1.5	V	-1.55	29.67	54	24.33
		Mi	ddle Chann	el (915 l	MHz) 2	0M Mode			
1032.16	51.52	PK	47	1.3	V	13.13	64.65	74	9.35
1032.16	28.17	Ave.	47	1.3	V	13.13	41.30	54	12.70
1830.00	45.96	PK	69	2.3	V	-1.55	44.41	74	29.59
1830.00	31.89	Ave.	69	2.3	V	-1.55	30.34	54	23.66
		Н	igh Channe	l (916 N	(Hz) 20	M Mode			
1032.16	51.28	PK	68	1.8	V	13.13	64.41	74	9.59
1032.16	28.2	Ave.	68	1.8	V	13.13	41.33	54	12.67
1832.00	45.97	PK	277	2.0	V	-1.55	44.42	74	29.58
1832.00	31.66	Ave.	277	2.0	V	-1.55	30.11	54	23.89

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Antenna 1:	r		<u>r</u>	·					
Frequency	Re	eceiver	Turntable	Rx Aı	ntenna	Corrected Factor	Corrected Amplitude	15.247	C Part /205/209
(MHz)	Reading (dBµV)	PK/QP/Ave.	Degree	Height (m)	Polar (H/V)	(dB/m)	(dBµV/m)	Limit (dBµV/m)	Margin (dB)
		I	ow Channe	el (909 N	MHz) 5N	M Mode			
1031.97	47.97	PK	345	1.7	V	13.13	61.10	74	12.90
1031.97	28.08	Ave.	345	1.7	V	13.13	41.21	54	12.79
1080.21	50.52	PK	15	2.3	V	1.85	52.37	74	21.63
1080.21	26.86	Ave.	15	2.3	V	1.85	28.71	54	25.29
1127.88	50.58	PK	81	1.2	V	2.15	52.73	74	21.27
1127.88	28.12	Ave.	81	1.2	V	2.15	30.27	54	23.73
1818.00	51.96	PK	319	1.7	V	-1.55	50.41	74	23.59
1818.00	37.50	Ave.	319	1.7	V	-1.55	35.95	54	18.05
		M	iddle Chanr	nel (915	MHz) 5	M Mode			
1032.00	46.87	PK	317	1.4	V	13.13	60.00	74	14.00
1032.00	27.82	Ave.	317	1.4	V	13.13	40.95	54	13.05
1080.18	50.24	PK	356	1.1	V	1.85	52.09	74	21.91
1080.18	26.88	Ave.	356	1.1	V	1.85	28.73	54	25.27
1127.96	51.99	PK	346	2.4	V	2.15	54.14	74	19.86
1127.96	28.61	Ave.	346	2.4	V	2.15	30.76	54	23.24
1830.00	50.15	PK	63	1.3	V	-1.55	48.60	74	25.40
1830.00	36.44	Ave.	63	1.3	V	-1.55	34.89	54	19.11
		H	igh Channe	el (921 l	MHz) 51	M Mode			
1032.10	47.18	PK	154	2.4	V	13.13	60.31	74	13.69
1032.10	27.7	Ave.	154	2.4	V	13.13	40.83	54	13.17
1080.09	49.39	PK	316	2.4	V	1.85	51.24	74	22.76
1080.09	26.7	Ave.	316	2.4	V	1.85	28.55	54	25.45
1127.92	52.17	PK	183	1.8	V	2.15	54.32	74	19.68
1127.92	28.39	Ave.	183	1.8	V	2.15	30.54	54	23.46
1842.00	52.07	PK	146	2.2	V	-1.55	50.52	74	23.48
1842.00	36.92	Ave.	146	2.2	V	-1.55	35.37	54	18.63
		\mathbf{L}	ow Channe	l (909 M	(Hz) 10	M Mode			
1032.16	47.22	PK	159	1.8	V	13.13	60.35	74	13.65
1032.16	27.51	Ave.	159	1.8	V	13.13	40.64	54	13.36
1818.00	47.83	PK	328	1.9	V	-1.55	46.28	74	27.72
1818.00	33.98	Ave.	328	1.9	V	-1.55	32.43	54	21.57
	1		ddle Chann						
1032.16	45.42	PK	86	2.3	V	13.13	58.55	74	15.45
1032.16	27.42	Ave.	86	2.3	V	13.13	40.55	54	13.45
1830.00	47.48	PK	97	1.3	V	-1.55	45.93	74	28.07
1830.00	33.63	Ave.	97	1.3	V	-1.55	32.08	54	21.92
		•							

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Frequency	Re	eceiver	Turntable	Rx Antenna			Corrected	FCC Part 15.247/205/209		
(MHz)	Reading (dBµV)	PK/QP/Ave.	Degree	Height (m)	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)		Margin (dB)	
	High Channel (921 MHz) 10M Mode									
1032.16	46.26	PK	139	1.8	V	13.13	59.39	74	14.61	
1032.16	27.38	Ave.	139	1.8	V	13.13	40.51	54	13.49	
1842.00	47.70	PK	239	1.3	V	-1.55	46.15	74	27.85	
1842.00	33.14	Ave.	239	1.3	V	-1.55	31.59	54	22.41	
		L	ow Channel	l (914 M	(Hz) 20	M Mode				
1032.16	47.52	PK	349	1.8	V	13.13	60.65	74	13.35	
1032.16	27.56	Ave.	349	1.8	V	13.13	40.69	54	13.31	
1828.00	48.81	PK	55	1.3	V	-1.55	47.26	74	26.74	
1828.00	35.79	Ave.	55	1.3	V	-1.55	34.24	54	19.76	
		Mie	ddle Chann	el (915 l	MHz) 2	0M Mode				
1032.16	47.08	PK	75	2.2	V	13.13	60.21	74	13.79	
1032.16	27.47	Ave.	75	2.2	V	13.13	40.60	54	13.40	
1830.00	45.86	PK	236	1.0	V	-1.55	44.31	74	29.69	
1830.00	32.06	Ave.	236	1.0	V	-1.55	30.51	54	23.49	
		H	igh Channe	l (916 M	1Hz) 20	M Mode				
1032.16	47.56	PK	115	1.9	V	13.13	60.69	74	13.31	
1032.16	27.49	Ave.	115	1.9	V	13.13	40.62	54	13.38	
1832.00	45.80	PK	186	1.6	V	-1.55	44.25	74	29.75	
1832.00	30.80	Ave.	186	1.6	V	-1.55	29.25	54	24.75	

Note:

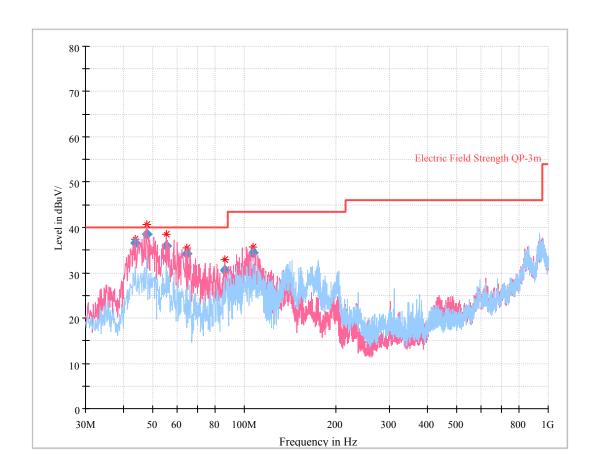
Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor Corrected Amplitude = Corrected Factor + Reading Margin = Limit - Corrected. Amplitude

The other spurious emission which is 20dB to the limit was not recorded.

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For 2.4GHz:

30 MHz~1 GHz: (worst case is antenna 0, 5M mode, High channel)



Report No.: RSZ190828003-00B

Frequency (MHz)	Corrected Amplitude (dBµV/m)	Antenna height (cm)	Antenna Polarity	Turntable position (degree)	Correction Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
43.795000	36.51	102.0	V	357.0	-16.4	40.00	3.49
47.769500	38.44	110.0	V	107.0	-18.6	40.00	1.56
55.267625	35.81	116.0	V	27.0	-19.9	40.00	4.19
64.778625	34.22	102.0	V	77.0	-20.4	40.00	5.78
86.039375	30.60	122.0	V	13.0	-19.4	40.00	9.40
106.722875	34.38	111.0	V	148.0	-16.0	43.50	9.12

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1 GHz-25 GHz:

Antenna 0:												
Frequency	Re	eceiver	Turntable	Rx An	tenna		Corrected		C Part /205/209			
(MHz)	Reading (dBµV)	PK/QP/Ave.	Degree	Height (m)	Polar (H/V)	Factor (dB/m)	Amplitude (dBμV/m)	Limit (dBµV/m)	Margin (dB)			
	5M Mode											
			Low Cha	annel (24	407.5 M	(Hz)						
2407.50	76.11	PK	283	2.3	Н	31.87	107.98	/	/			
2407.50	63.62	Ave.	283	2.3	Н	31.87	95.49	/	/			
2407.50	89.39	PK	153	2.0	V	31.87	121.26	/	/			
2407.50	75.95	Ave.	153	2.0	V	31.87	107.82	/	/			
2386.12	29.65	PK	35	1.0	V	31.87	61.52	74	12.48			
2386.12	14.20	Ave.	35	1.0	V	31.87	46.07	54	7.93			
2485.16	28.26	PK	343	2.3	V	32.13	60.39	74	13.61			
2485.16	14.18	Ave.	343	2.3	V	32.13	46.31	54	7.69			
2132.66	88.61	PK	114	1.1	V	-0.42	88.19	101.26	13.17			
2132.66	35.41	Ave.	114	1.1	V	-0.42	34.99	87.82	52.93			
2683.13	87.99	PK	73	1.4	V	0.59	88.58	101.26	12.78			
2683.13	36.72	Ave.	73	1.4	V	0.59	37.31	87.82	50.61			
4815.00	45.83	PK	241	1.4	V	5.40	51.23	74	22.77			
4815.00	32.55	Ave.	241	1.4	V	5.40	37.95	54	16.05			
			Middle Cl	hannel (2439.5N	MHz)						
2439.50	78.23	PK	127	1.5	Н	31.97	110.20	/	/			
2439.50	65.50	Ave.	127	1.5	Н	31.97	97.47	/	/			
2439.50	86.35	PK	127	2.1	V	31.97	118.32	/	/			
2439.50	73.83	Ave.	127	2.1	V	31.97	105.80	/	/			
2164.03	64.84	PK	63	1.1	V	-0.34	64.50	98.32	33.82			
2164.03	34.33	Ave.	63	1.1	V	-0.34	33.99	85.80	51.81			
2713.91	56.31	PK	122	2.0	V	0.69	57.00	74	17.00			
2713.91	31.78	Ave.	122	2.0	V	0.69	32.47	54	21.53			
4879.00	46.34	PK	309	1.9	V	6.43	52.77	74	21.23			
4879.00	31.59	Ave.	309	1.9	V	6.43	38.02	54	15.98			
			High Cha	annel (2	471.5 M	(Hz)						
2471.50	77.46	PK	95	2.2	Н	32.03	109.49	/	/			
2471.50	65.3	Ave.	95	2.2	Н	32.03	97.33	/	/			
2471.50	87.55	PK	360	1.3	V	32.03	119.58	/	/			
2471.50	74.78	Ave.	360	1.3	V	32.03	106.81	/	/			
2368.60	28.13	PK	105	2.4	Н	31.87	60.00	74	14.00			
2368.60	14.08	Ave.	105	2.4	Н	31.87	45.95	54	8.05			
2483.54	29.62	PK	187	1.8	V	32.13	61.75	74	12.25			
2483.54	14.67	Ave.	187	1.8	V	32.13	46.80	54	7.20			
2211.42	55.00	PK	124	1.7	V	-0.24	54.76	74	19.24			
2211.42	36.92	Ave.	124	1.7	V	-0.24	36.68	54	17.32			
4943.00	47.07	PK	28	1.7	V	6.43	53.50	74	20.50			
4943.00	33.27	Ave.	28	1.7	V	6.43	39.70	54	14.30			

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Frequency	Re	eceiver	Turntable Rx Anter		ntenna		Corrected		C Part /205/209
(MHz)	Reading (dBµV)	PK/QP/Ave.		Height (m)	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
				10M M	ode				
			Low Cha	annel (2	407.5 M	IHz)			
2407.50	76.47	PK	154	1.3	Н	31.87	108.34	/	/
2407.50	63.70	Ave.	154	1.3	Н	31.87	95.57	/	/
2407.50	83.54	PK	57	2.4	V	31.87	115.41	/	/
2407.50	70.43	Ave.	57	2.4	V	31.87	102.30	/	/
2389.71	31.64	PK	319	1.8	V	31.87	63.51	74	10.49
2389.71	16.24	Ave.	319	1.8	V	31.87	48.11	54	5.89
2492.01	28.89	PK	151	1.2	V	32.13	61.02	74	12.98
2492.01	14.00	Ave.	151	1.2	V	32.13	46.13	54	7.87
2133.91	75.62	PK	136	1.8	V	-0.42	75.20	95.41	20.21
2133.91	31.08	Ave.	136	1.8	V	-0.42	30.66	82.30	51.64
2684.09	82.89	PK	118	1.2	V	0.59	83.48	95.41	11.93
2684.09	34.76	Ave.	118	1.2	V	0.59	35.35	82.30	46.95
4815.00	44.23	PK	28	1.2	V	5.40	49.63	74	24.37
4815.00	29.72	AV	28	1.2	V	5.40	35.12	54	18.88
	W.	•	Middle Cl	hannel (2439.5N	MHz)		<u> </u>	
2439.50	80.28	PK	339	2.4	Н	31.97	112.25	/	/
2439.50	66.62	Ave.	339	2.4	Н	31.97	98.59	/	/
2439.50	84.06	PK	41	1.7	V	31.97	116.03	/	/
2439.50	70.15	Ave.	41	1.7	V	31.97	102.12	/	/
2162.83	61.31	PK	217	2.2	V	-0.34	60.97	96.03	35.06
2162.83	35.80	Ave.	217	2.2	V	-0.34	35.46	82.12	46.66
4879.00	46.26	PK	90	2.0	V	6.43	52.69	74	21.31
4879.00	32.14	Ave.	90	2.0	V	6.43	38.57	54	15.43
	·	I	High Cha	annel (2	471.5 M	(Hz)		L	
2471.50	80.15	PK	75	1.6	Н	32.03	112.18	/	/
2471.50	67.21	Ave.	75	1.6	Н	32.03	99.24	/	/
2471.50	84.04	PK	91	1.8	V	32.03	116.07	/	/
2471.50	70.66	Ave.	91	1.8	V	32.03	102.69	/	/
2199.17	56.7	PK	95	1.8	V	-0.24	56.46	96.07	39.61
2199.17	36.48	Ave.	95	1.8	V	-0.24	36.24	82.69	46.45
2384.19	28.27	PK	147	2.0	V	31.87	60.14	74	13.86
2384.19	14.03	Ave.	147	2.0	V	31.87	45.90	54	8.10
2483.54	38.78	PK	179	1.6	V	32.13	70.91	74	3.09
2483.54	21.20	Ave.	179	1.6	V	32.13	53.33	54	0.67
4943.00	47.48	PK	94	1.9	V	6.43	53.91	74	20.09
4943.00	33.39	Ave.	94	1.9	V	6.43	39.82	54	14.18

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Frequency	Re	eceiver	Turntable	Rx Aı	ntenna		Corrected		C Part 7/205/209			
(MHz)	Reading (dBµV)	PK/QP/Ave.		Height (m)	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)			
	20M Mode											
Low Channel (2412.5 MHz)												
2412.50	76.55	PK	82	2.4	Н	31.87	108.42	/	/			
2412.50	58.46	Ave.	82	2.4	Н	31.87	90.33	/	/			
2412.50	79.27	PK	95	2.4	V	31.87	111.14	/	/			
2412.50	65.07	Ave.	95	2.4	V	31.87	96.94	/	/			
2389.71	38.57	PK	190	2.3	V	31.87	70.44	74	3.56			
2389.71	20.20	Ave.	190	2.3	V	31.87	52.07	54	1.93			
2492.04	28.50	PK	158	1.0	V	32.13	60.63	74	13.37			
2492.04	14.06	Ave.	158	1.0	V	32.13	46.19	54	7.81			
4825.00	43.69	PK	109	2.0	V	5.40	49.09	74	24.91			
4825.00	29.60	Ave.	109	2.0	V	5.40	35.00	54	19.00			
			Middle Cl	hannel (2437.5N	MHz)						
2437.50	75.98	PK	290	1.8	Н	31.97	107.95	/	/			
2437.50	59.32	Ave.	290	1.8	Н	31.97	91.29	/	/			
2437.50	82.85	PK	3	1.1	V	31.97	114.82	/	/			
2437.50	69.36	Ave.	3	1.1	V	31.97	101.33	/	/			
2159.71	57.62	PK	61	1.4	V	-0.34	57.28	94.82	37.54			
2159.71	35.15	Ave.	61	1.4	V	-0.34	34.81	81.33	46.52			
4875.00	44.44	PK	42	2.4	V	6.43	50.87	74	23.13			
4875.00	30.46	Ave.	42	2.4	V	6.43	36.89	54	17.11			
			High Cha	annel (2	462.5 M	IHz)						
2462.50	73.54	PK	305	1.6	Н	32.03	105.57	/	/			
2462.50	55.80	Ave.	305	1.6	Н	32.03	87.83	/	/			
2462.50	82.98	PK	99	1.8	V	32.03	115.01	/	/			
2462.50	69.30	Ave.	99	1.8	V	32.03	101.33	/	/			
2368.76	28.51	PK	172	2.3	V	31.87	60.38	74	13.62			
2368.76	14.12	Ave.	172	2.3	V	31.87	45.99	54	8.01			
2484.80	38.92	PK	217	1.8	V	32.13	71.05	74	2.95			
2484.80	19.80	Ave.	217	1.8	V	32.13	51.93	54	2.07			
2195.01	53.54	PK	286	1.4	V	-0.24	53.30	95.01	41.71			
2195.01	38.28	Ave.	286	1.4	V	-0.24	38.04	81.33	43.29			
4925.00	45.32	PK	293	2.1	V	6.43	51.75	74	22.25			
4925.00	31.88	Ave.	293	2.1	V	6.43	38.31	54	15.69			

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1 GHz-25 GHz: Antenna 1:

Antenna	1:		r	r		ď					
Frequency	Re	eceiver	Turntable	Rx Aı	itenna		Corrected		C Part /205/209		
(MHz)	Reading (dBµV)	PK/QP/Ave.	Degree	Height (m)	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)		
5M Mode											
			Low Cha	nnel (2	407.5 M	Hz)					
2327.42	28.37	PK	331	2.4	Н	31.64	60.01	74	13.99		
2327.42	13.98	Ave.	331	2.4	Н	31.64	45.62	54	8.38		
2493.52	28.55	PK	160	2.1	V	32.13	60.68	74	13.32		
2493.52	14.11	Ave.	160	2.1	V	32.13	46.24	54	7.76		
4815.00	44.87	PK	132	2.1	V	5.40	50.27	74	23.73		
4815.00	30.83	Ave.	132	2.1	V	5.40	36.23	54	17.77		
			Middle Cl	hannel (2439.5N	MHz)					
4879.00	45.49	PK	196	2.0	V	6.43	51.92	74	22.08		
4879.00	32.32	Ave.	196	2.0	V	6.43	38.75	54	15.25		
			High Cha	annel (2	471.5 M	(Hz)					
2359.03	28.39	PK	35	1.3	Н	31.77	60.16	74	13.84		
2359.03	13.9	Ave.	35	1.3	Н	31.77	45.67	54	8.33		
2483.89	30.53	PK	7	1.7	V	32.13	62.66	74	11.34		
2483.89	14.25	Ave.	7	1.7	V	32.13	46.38	54	7.62		
4943.00	45.13	PK	28	2.3	V	6.43	51.56	74	22.44		
4943.00	31.20	Ave.	28	2.3	V	6.43	37.63	54	16.37		
				10M M	ode						
			Low Cha	nnel (2	407.5 M	Hz)					
2389.71	28.13	PK	128	1.5	Н	31.87	60.00	74	14.00		
2389.71	14.27	Ave.	128	1.5	Н	31.87	46.14	54	7.86		
2497.10	28.04	PK	2	2.0	V	32.13	60.17	74	13.83		
2497.10	14.11	Ave.	2	2.0	V	32.13	46.24	54	7.76		
4815.00	43.87	PK	311	2.2	V	5.40	49.27	74	24.73		
4815.00	29.07	Ave.	311	2.2	V	5.40	34.47	54	19.53		
			Middle Cl	hannel (2439.5N	/IHz)					
4879.00	43.41	PK	304	1.9	V	6.43	49.84	74	24.16		
4879.00	29.11	Ave.	304	1.9	V	6.43	35.54	54	18.46		
			High Cha	annel (2	471.5 M	(Hz)					
2323.02	27.99	PK	318	1.2	Н	31.64	59.63	74	14.37		
2323.02	14.12	Ave.	318	1.2	Н	31.64	45.76	54	8.24		
2497.10	37.89	PK	346	1.3	V	32.13	70.02	74	3.98		
2497.10	20.48	Ave.	346	1.3	V	32.13	52.61	54	1.39		
4943.00	46.35	PK	313	2.2	V	6.43	52.78	74	21.22		
4943.00	32.37	Ave.	313	2.2	V	6.43	38.80	54	15.20		

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Frequency	Re	eceiver	Turntable	Rx Ar	itenna		Corrected		C Part 7/205/209			
(MHz)	Reading (dBµV)	PK/QP/Ave.		Height (m)	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)			
	20M Mode											
			Low Cha	nnel (2	412.5 M	(Hz)						
2412.50	72.61	PK	165	1.2	Н	31.87	104.48	/	/			
2412.50	59.08	Ave.	165	1.2	Н	31.87	90.95	/	/			
2412.50	82.17	PK	297	2.0	V	31.87	114.04	/	/			
2412.50	67.81	Ave.	297	2.0	V	31.87	99.68	/	/			
2389.99	38.85	PK	156	1.6	V	31.87	70.72	74	3.28			
2389.99	21.69	Ave.	156	1.6	V	31.87	53.56	54	0.44			
2491.18	28.38	PK	212	1.6	V	32.13	60.51	74	13.49			
2491.18	14.16	Ave.	212	1.6	V	32.13	46.29	54	7.71			
4825.00	43.75	PK	175	1.6	V	5.40	49.15	74	24.85			
4825.00	29.82	Ave.	175	1.6	V	5.40	35.22	54	18.78			
			Middle Cl	hannel (2437.5N	MHz)						
2437.50	75.98	PK	290	1.8	Н	31.97	107.95	/	/			
2437.50	59.32	Ave.	290	1.8	Н	31.97	91.29	/	/			
2437.50	82.85	PK	3	1.1	V	31.97	114.82	/	/			
2437.50	69.36	Ave.	3	1.1	V	31.97	101.33	/	/			
2159.71	57.62	PK	61	1.4	V	-0.34	57.28	94.82	37.54			
2159.71	35.15	Ave.	61	1.4	V	-0.34	34.81	81.33	46.52			
4875.00	44.44	PK	42	2.4	V	6.43	50.87	74	23.13			
4875.00	30.46	AV	42	2.4	V	6.43	36.89	54	17.11			
		1	High Cha	annel (2	462.5 N	(Hz)						
2462.5	73.54	PK	162	2.1	Н	32.03	105.57	/	/			
2462.5	55.8	AV	162	2.1	Н	32.03	87.83	/	/			
2462.5	82.98	PK	29	1.7	V	32.03	115.01	/	/			
2462.5	69.3	AV	29	1.7	V	32.03	101.33	/	/			
2368.76	28.51	PK	172	2.3	V	31.87	60.38	74	13.62			
2368.76	14.12	Ave.	172	2.3	V	31.87	45.99	54	8.01			
2484.80	38.92	PK	217	1.8	V	32.13	71.05	74	2.95			
2484.80	19.80	Ave.	217	1.8	V	32.13	51.93	54	2.07			
2195.01	53.54	PK	286	1.4	V	-0.24	53.30	95.01	41.71			
2195.01	38.28	Ave.	286	1.4	V	-0.24	38.04	81.33	43.29			
4925.00	45.32	PK	293	2.1	V	6.43	51.75	74	22.25			
4925.00	31.88	Ave.	293	2.1	V	6.43	38.31	54	15.69			

Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Corrected Amplitude = Corrected Factor + Reading

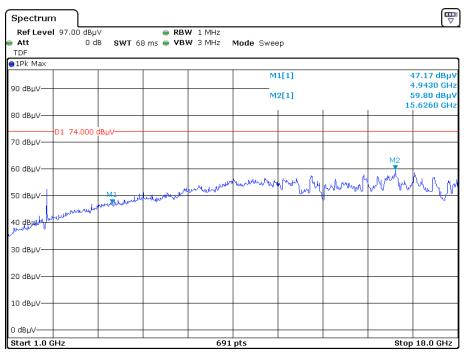
Margin = Limit - Corrected. Amplitude

The other spurious emission which is 20dB to the limit was not recorded. And for the pre-scan is performed with the 2400-2483.5MHz band filter.

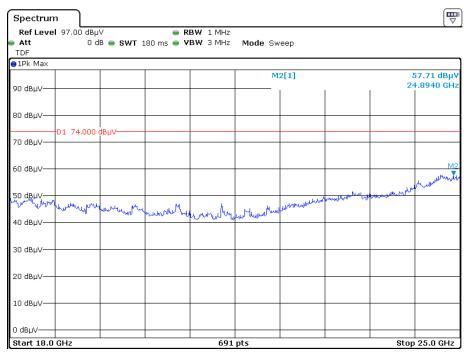
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Pre-scan with 2.4GHz Antenna0 10M Mode, High channel, for Peak Horizontal

Report No.: RSZ190828003-00B

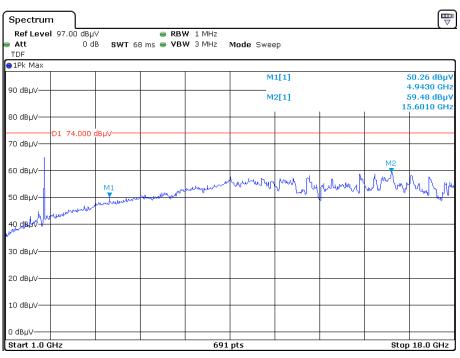


Date: 28.SEP.2019 10:07:08

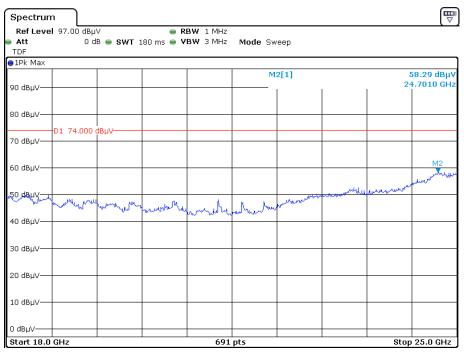


Date: 28.SEP.2019 10:45:28

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Date: 28.SEP.2019 09:56:48



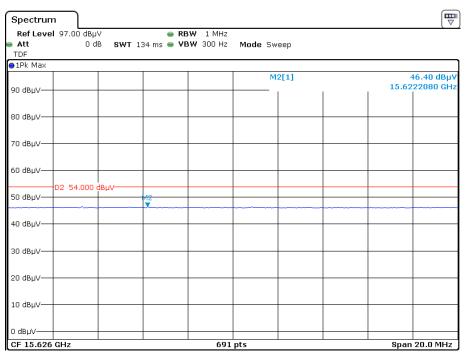
Date: 28.SEP.2019 10:34:18

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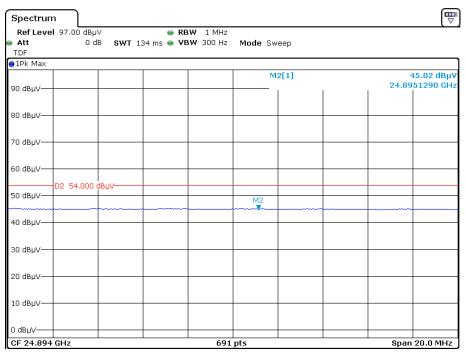
For Average

Report No.: RSZ190828003-00B

Horizontal

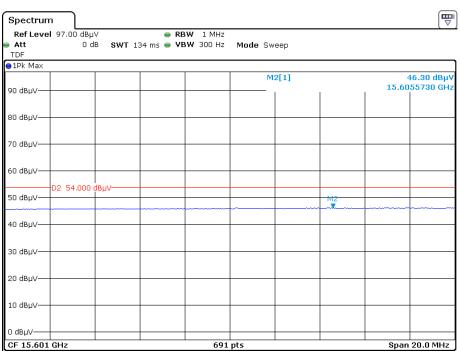


Date: 28.SEP.2019 10:13:35

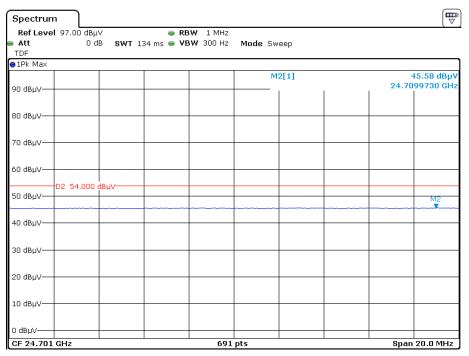


Date: 28.SEP.2019 10:51:30

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Date: 28.SEP.2019 10:02:11



Date: 28.SEP.2019 10:39:58

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FCC $\S15.247(a)$ (2) – 6 dB EMISSION BANDWIDTH

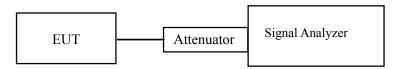
Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Report No.: RSZ190828003-00B

Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 4. Repeat above procedures until all frequencies measured were complete.



Test Data

Environmental Conditions

Temperature:	24~25 ℃
Relative Humidity:	54~56 %
ATM Pressure:	100.9~101.0 kPa

The testing was performed by Leo Huang from 2019-09-06 to 2019-10-12.

Test Result: Pass.

Please refer to the following table and plots.

EUT operation mode: Transmitting

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For 900MHz Antenna 0:

Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (kHz)		
	5N	И Mode			
Low	909	4.545	≥500		
Middle	915	4.536	≥500		
High	921	4.545	≥500		
	10M Mode				
Low	909	9.100	≥500		
Middle	915	9.083	≥500		
High	921	9.042	≥500		
	20M Mode				
Low	914	18.132	≥500		
Middle	915	18.068	≥500		
High	916	18.068	≥500		

Report No.: RSZ190828003-00B

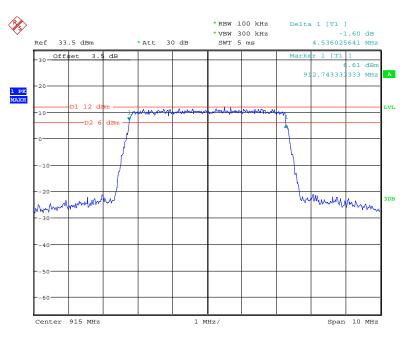
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5M Mode Low Channel



Date: 9.SEP.2019 17:09:26

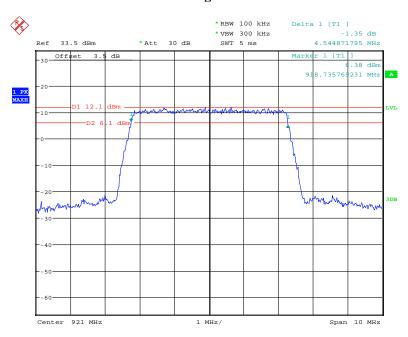
Middle Channel



Date: 9.SEP.2019 17:08:00

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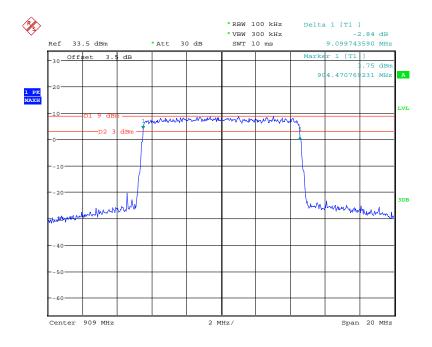
High Channel



Date: 9.SEP.2019 17:05:28

10M Mode

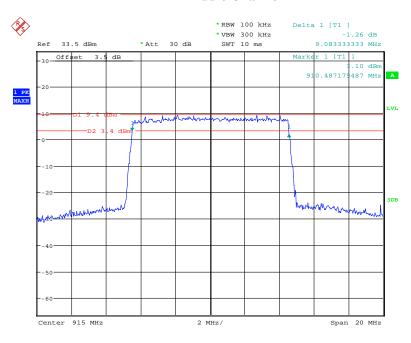
Low Channel



Date: 9.SEP.2019 14:54:34

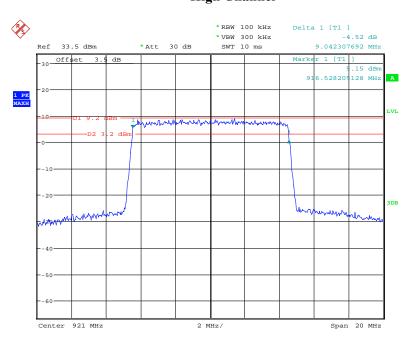
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Middle Channel



Date: 9.SEP.2019 14:56:59

High Channel



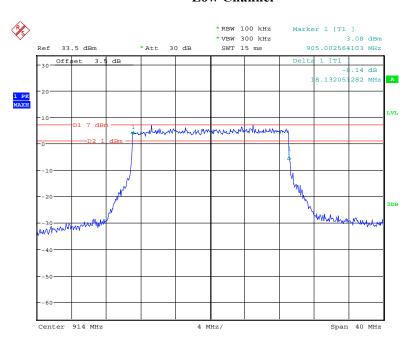
Date: 9.SEP.2019 14:59:31

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20M Mode

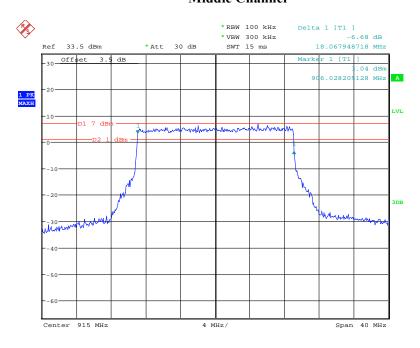
Report No.: RSZ190828003-00B

Low Channel



Date: 9.SEP.2019 15:23:38

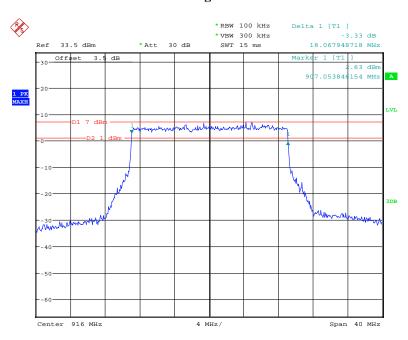
Middle Channel



Date: 9.SEP.2019 15:03:24

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High Channel



Date: 9.SEP.2019 15:01:39

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For 900MHz Antenna 1:

Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (kHz)		
	5N	/I Mode			
Low	909	4.529	≥500		
Middle	915	4.529	≥500		
High	921	4.513	≥500		
	10M Mode				
Low	909	9.064	≥500		
Middle	915	9.000	≥500		
High	921	9.03	≥500		
	20M Mode				
Low	914	18.099	≥500		
Middle	915	18.099	≥500		
High	916	18.035	≥500		

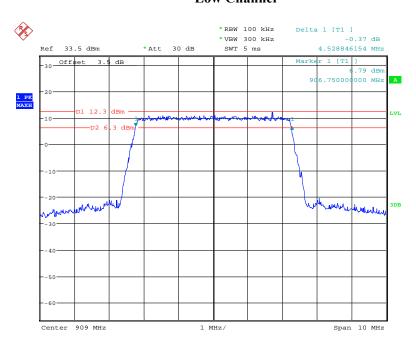
Report No.: RSZ190828003-00B

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5M Mode

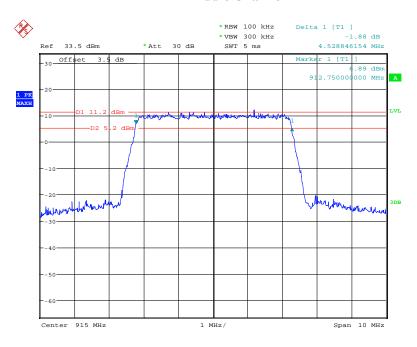
Report No.: RSZ190828003-00B

Low Channel



Date: 12.OCT.2019 09:49:56

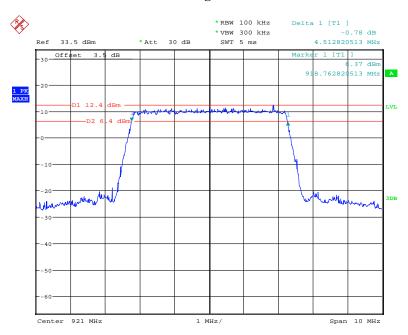
Middle Channel



Date: 12.OCT.2019 09:47:59

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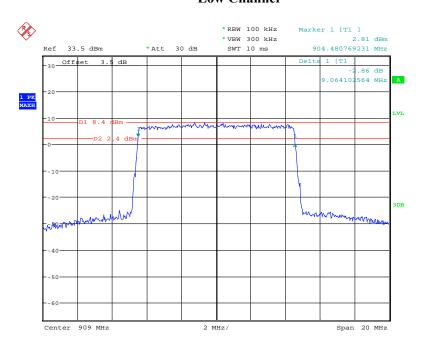
High Channel



Date: 12.OCT.2019 09:46:17

10M Mode

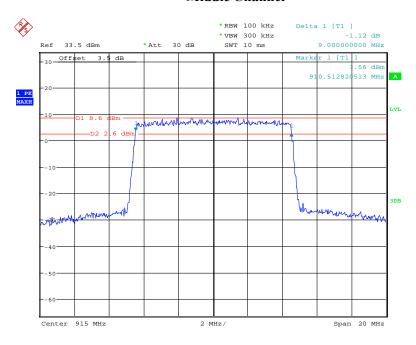
Low Channel



Date: 9.SEP.2019 14:14:09

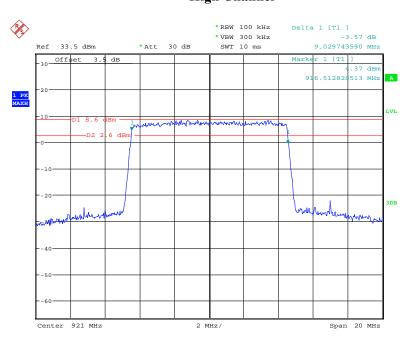
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Middle Channel



Date: 9.SEP.2019 14:12:35

High Channel

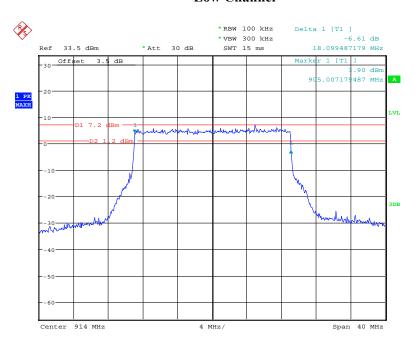


Date: 9.SEP.2019 14:11:35

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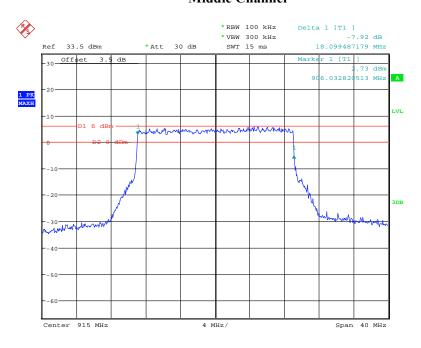
20M Mode

Low Channel



Date: 9.SEP.2019 14:06:23

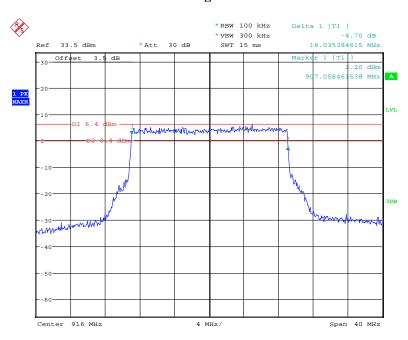
Middle Channel



Date: 9.SEP.2019 14:07:49

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High Channel



Date: 9.SEP.2019 14:08:47

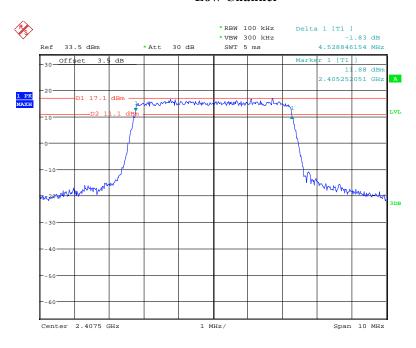
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For 2.4GHz Antenna 0:

Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (kHz)		
	5N	M Mode			
Low	2407.5	4.529	≥500		
Middle	2439.5	4.567	≥500		
High	2471.5	4.546	≥500		
	10M Mode				
Low	2407.5	9.058	≥500		
Middle	2439.5	9.071	≥500		
High	2471.5	9.071	≥500		
	20M Mode				
Low	2412.5	18.115	≥500		
Middle	2437.5	18.133	≥500		
High	2462.5	18.106	≥500		

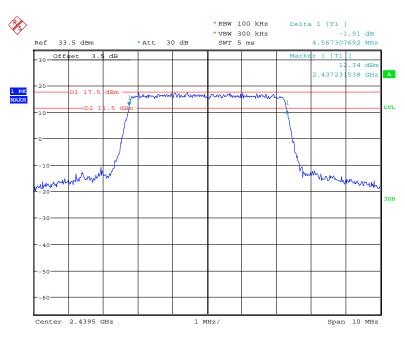
FCC Part 15.247 Page 52 of 99

5M Mode Low Channel



Date: 9.SEP.2019 16:18:18

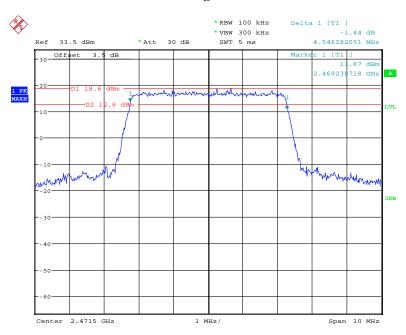
Middle Channel



Date: 9.SEP.2019 16:16:36

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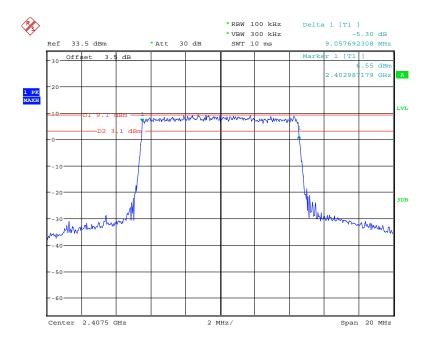
High Channel



Date: 9.SEP.2019 16:14:44

10M Mode

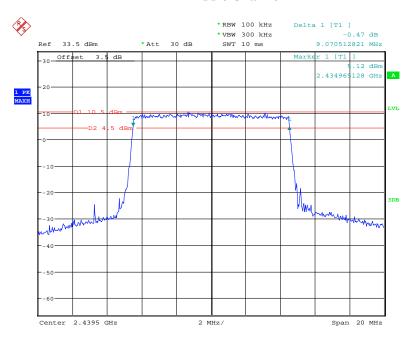
Low Channel



Date: 9.SEP.2019 16:10:00

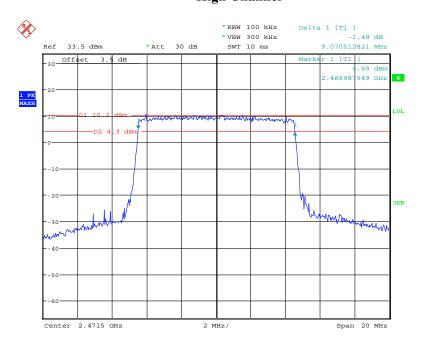
FCC Part 15.247 Page 54 of 99

Middle Channel



Date: 9.SEP.2019 16:12:00

High Channel

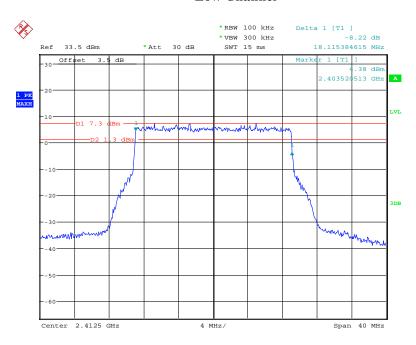


Date: 9.SEP.2019 16:13:18

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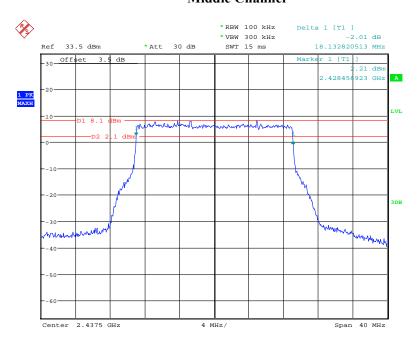
20M Mode

Low Channel



Date: 9.SEP.2019 16:08:39

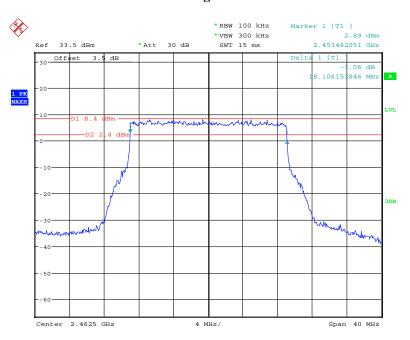
Middle Channel



Date: 9.SEP.2019 16:07:22

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High Channel



Date: 9.SEP.2019 16:04:54

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For 2.4GHz Antenna 1:

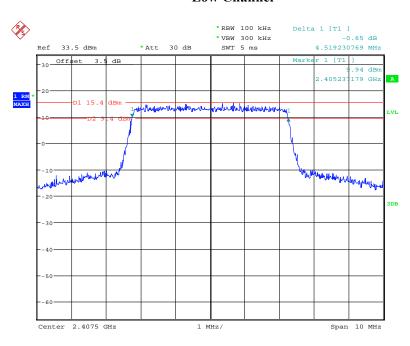
Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (kHz)		
	5N	И Mode			
Low	2407.5	4.519	≥500		
Middle	2439.5	4.551	≥500		
High	2471.5	4.535	≥500		
	10M Mode				
Low	2407.5	9.071	≥500		
Middle	2439.5	9.090	≥500		
High	2471.5	9.08	≥500		
	20M Mode				
Low	2412.5	18.032	≥500		
Middle	2437.5	18.051	≥500		
High	2462.5	18.179	≥500		

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5M Mode

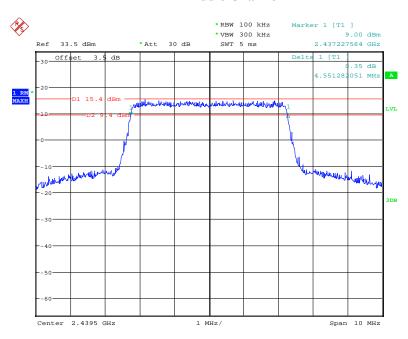
Report No.: RSZ190828003-00B

Low Channel



Date: 6.SEP.2019 16:45:56

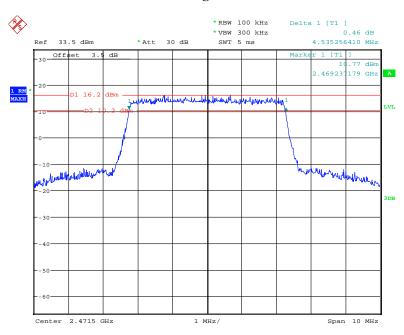
Middle Channel



Date: 6.SEP.2019 16:44:42

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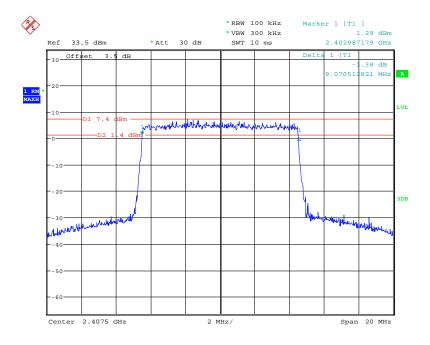
High Channel



Date: 6.SEP.2019 16:47:18

10M Mode

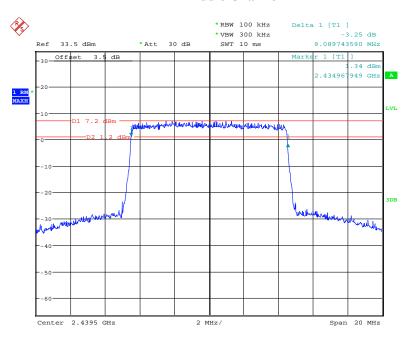
Low Channel



Date: 6.SEP.2019 16:55:24

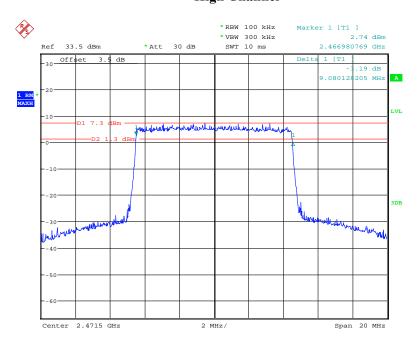
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Middle Channel



Date: 6.SEP.2019 16:53:08

High Channel



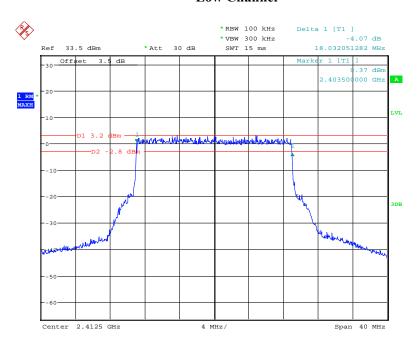
Date: 6.SEP.2019 16:49:12

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20M Mode

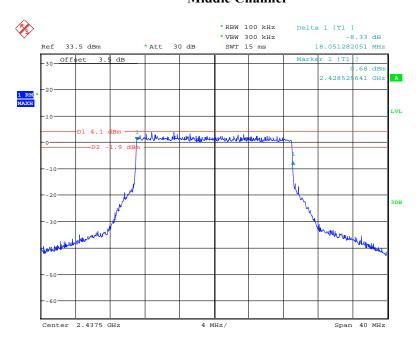
Report No.: RSZ190828003-00B

Low Channel



Date: 6.SEP.2019 16:59:19

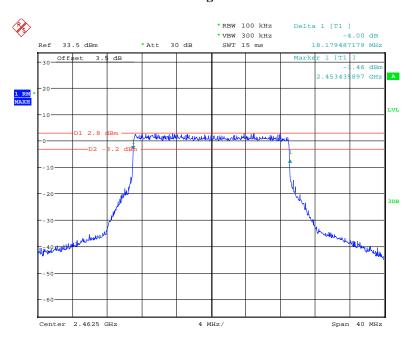
Middle Channel



Date: 6.SEP.2019 17:01:05

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High Channel



Date: 6.SEP.2019 17:02:35

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FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

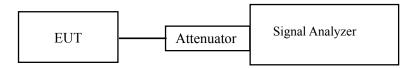
Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Report No.: RSZ190828003-00B

Test Procedure

- 1. Place the EUT on a bench and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
- 3. Add a correction factor to the display.



Test Data

Environmental Conditions

Temperature:	24~25 ℃
Relative Humidity:	54~56 %
ATM Pressure:	100.9~101.0 kPa

The testing was performed by Leo Huang from 2019-09-06 to 2019-09-12.

EUT operation mode: Transmitting

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For 900MHz:

Channel	Frequency (MHz)	Max Conducted Peak Output Power Antenna 0 (dBm)	Max Conducted Peak Output Power Antenna 1 (dBm)	Limit (dBm)	
		5M Mode			
Low	909	23.68	23.83	30	
Middle	915	23.59	23.89	30	
High	921	23.65	24.07	30	
	10M Mode				
Low	909	24.16	23.86	30	
Middle	915	24.11	23.73	30	
High	921	24.02	23.71	30	
20M Mode					
Low	914	24.02	23.60	30	
Middle	915	23.76	23.37	30	
High	916	23.90	23.43	30	

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For 2.4GHz:

Channel Frequency	Max Conducted Peak Output Power	Max Conducted Peak Output Power	Limit		
	(MHz)	Antenna 0 (dBm)	Antenna 1 (dBm)	(dBm)	
		5M Mode			
Low	2407.5	28.26	28.08	30	
Middle	2439.5	29.03	28.41	30	
High	2471.5	29.48	28.42	30	
	10M Mode				
Low	2407.5	24.76	24.72	30	
Middle	2439.5	25.39	25.69	30	
High	2471.5	25.29	25.76	30	
20M Mode					
Low	2412.5	24.52	24.72	30	
Middle	2437.5	25.02	25.16	30	
High	2462.5	25.48	25.50	30	

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FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

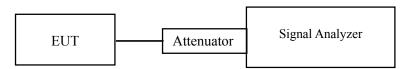
Report No.: RSZ190828003-00B

Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.



Test Data

Environmental Conditions

Temperature:	24~25 ℃
Relative Humidity:	54~56 %
ATM Pressure:	100.9~101.0 kPa

The testing was performed by Leo Huang from 2019-09-06 to 2019-09-12.

EUT operation mode: Transmitting

Test Result: Compliance

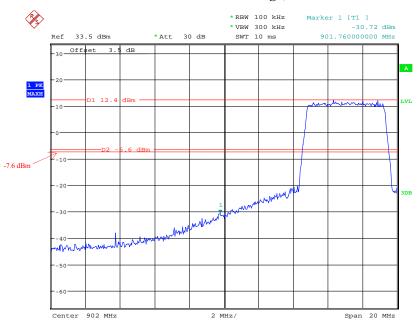
Please refer to the following plots.

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For 900MHz Antenna 0

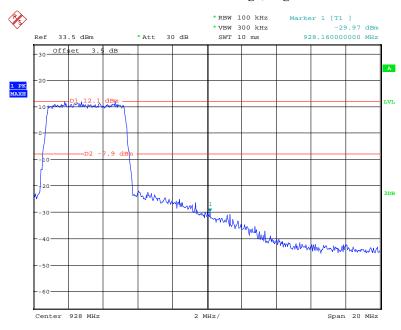
5M Mode: Band Edge, Left Side

Report No.: RSZ190828003-00B



Date: 9.SEP.2019 17:13:41

5M Mode: Band Edge, Right Side

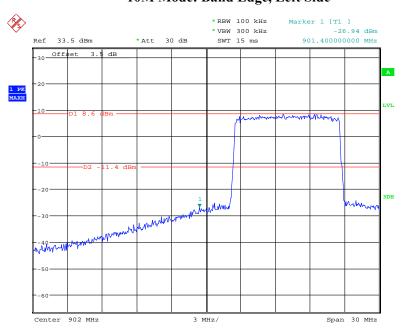


Date: 9.SEP.2019 17:23:24

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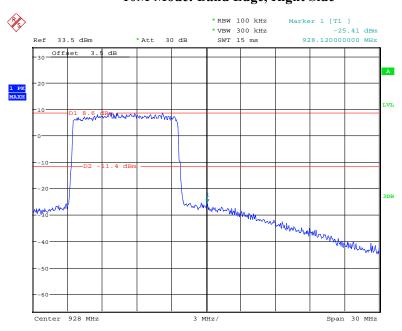
10M Mode: Band Edge, Left Side

Report No.: RSZ190828003-00B



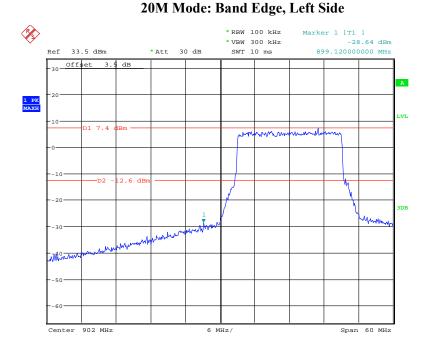
Date: 9.SEP.2019 15:30:59

10M Mode: Band Edge, Right Side



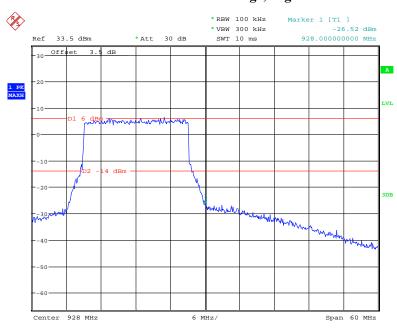
Date: 9.SEP.2019 15:30:07

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Date: 9.SEP.2019 15:27:25

20M Mode: Band Edge, Right Side



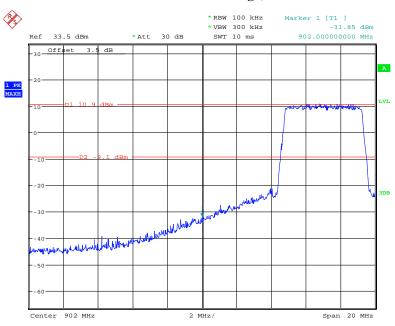
Date: 9.SEP.2019 15:28:59

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For 900MHz Antenna 1

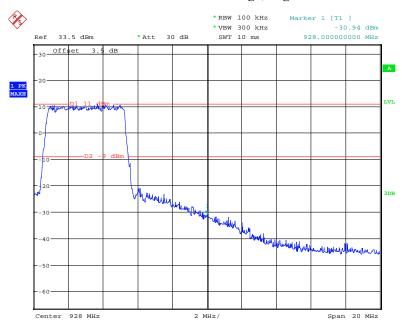
5M Mode: Band Edge, Left Side

Report No.: RSZ190828003-00B



Date: 12.OCT.2019 09:43:12

5M Mode: Band Edge, Right Side

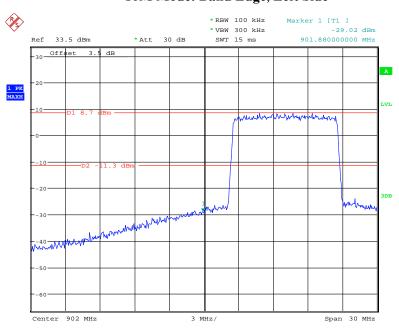


Date: 12.OCT.2019 09:44:34

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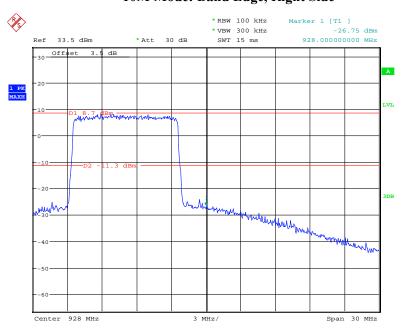
10M Mode: Band Edge, Left Side

Report No.: RSZ190828003-00B



Date: 9.SEP.2019 13:54:04

10M Mode: Band Edge, Right Side

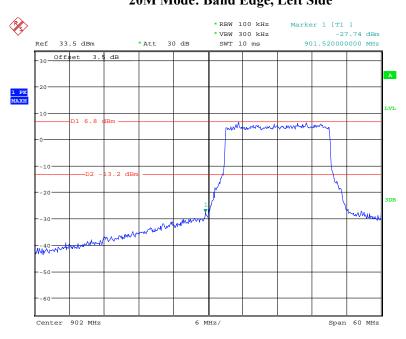


Date: 9.SEP.2019 13:58:26

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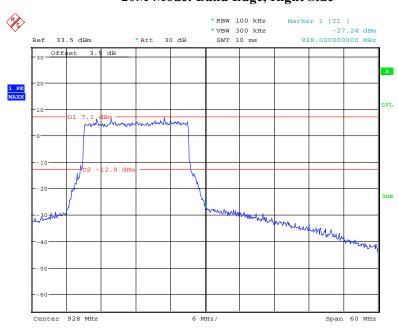
20M Mode: Band Edge, Left Side

Report No.: RSZ190828003-00B



Date: 9.SEP.2019 14:03:30

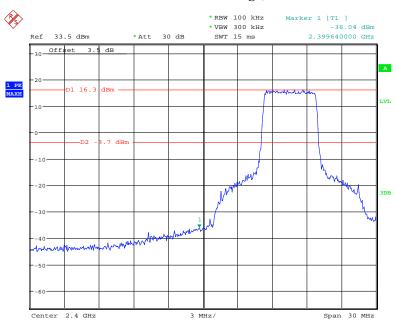
20M Mode: Band Edge, Right Side



Date: 9.SEP.2019 14:02:34

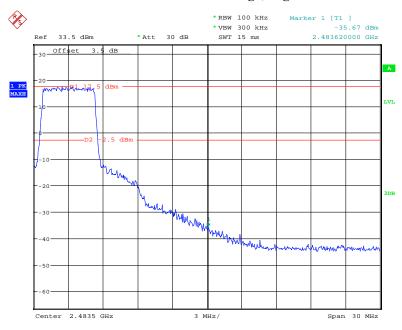
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Report No.: RSZ190828003-00B



Date: 9.SEP.2019 16:20:05

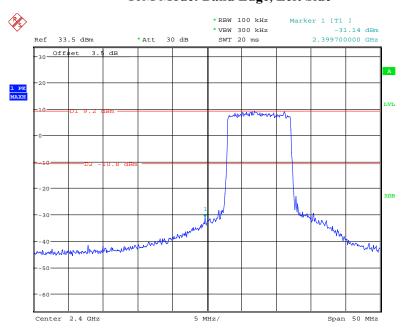
5M Mode: Band Edge, Right Side



Date: 9.SEP.2019 16:21:41

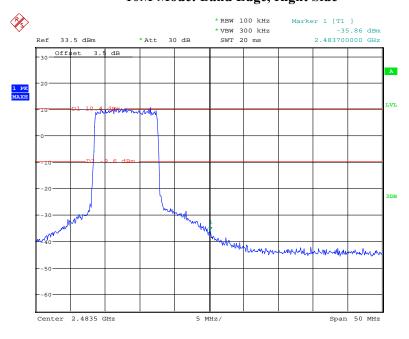
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Report No.: RSZ190828003-00B



Date: 9.SEP.2019 16:23:34

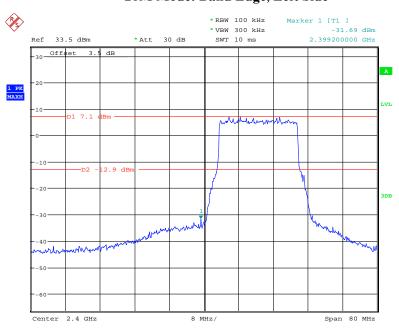
10M Mode: Band Edge, Right Side



Date: 9.SEP.2019 16:22:35

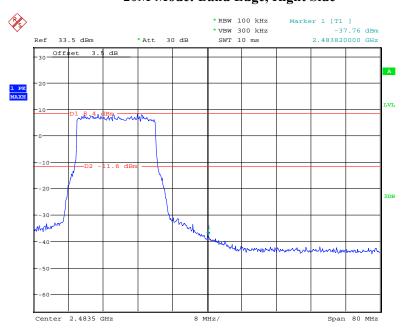
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Report No.: RSZ190828003-00B



Date: 9.SEP.2019 16:27:55

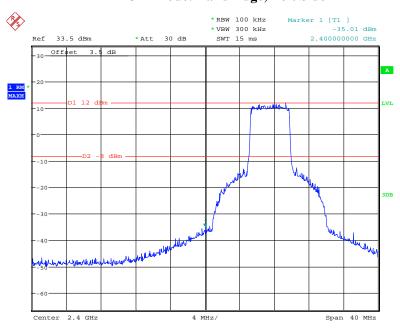
20M Mode: Band Edge, Right Side



Date: 9.SEP.2019 16:26:46

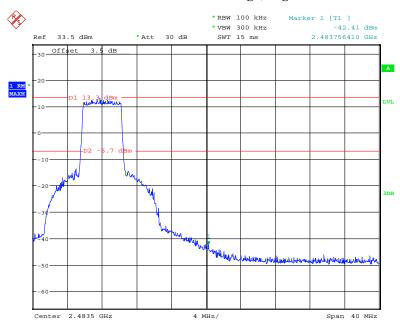
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Report No.: RSZ190828003-00B



Date: 6.SEP.2019 17:18:22

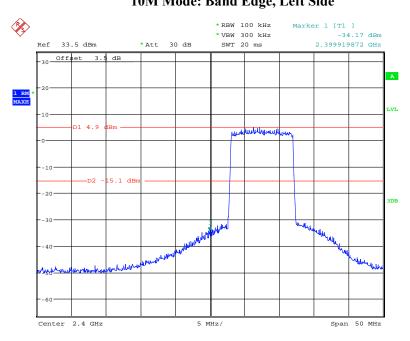
5M Mode: Band Edge, Right Side



Date: 6.SEP.2019 17:16:42

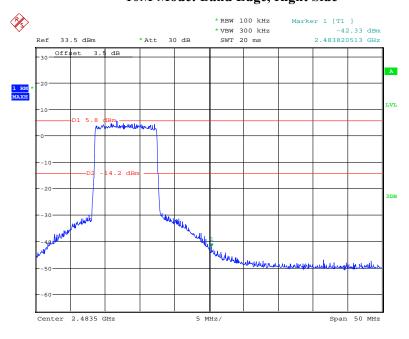
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Report No.: RSZ190828003-00B



Date: 6.SEP.2019 17:10:25

10M Mode: Band Edge, Right Side

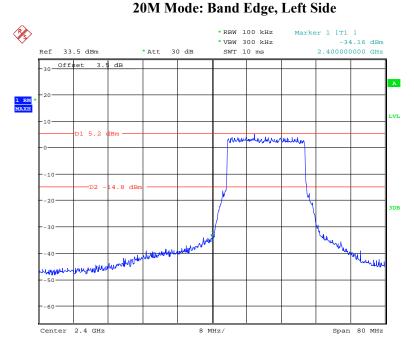


Date: 6.SEP.2019 17:11:52

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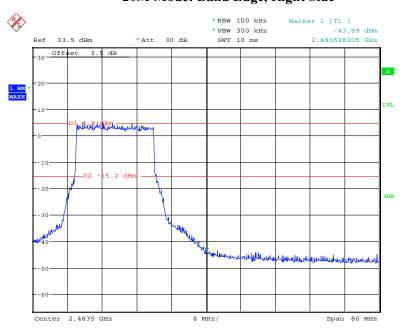
NOMENTAL DE LETA LEGICA

Report No.: RSZ190828003-00B



Date: 6.SEP.2019 17:07:23

20M Mode: Band Edge, Right Side



Date: 6.SEP.2019 17:04:44

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FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Report No.: RSZ190828003-00B

Test Procedure

- 1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
- 2. Set the RBW to: $3kHz \le RBW \le 100 \text{ kHz}$.
- 3. Set the VBW $> 3 \times RBW$.
- 4. Set the span to 1.5 times the DTS bandwidth.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



Test Data

Environmental Conditions

Temperature:	24~25 ℃	
Relative Humidity:	54~56 %	
ATM Pressure:	100.9~101.0 kPa	

The testing was performed by Leo Huang from 2019-09-06 to 2019-10-12.

EUT operation mode: Transmitting

Test Result: Pass

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For 900MHz:

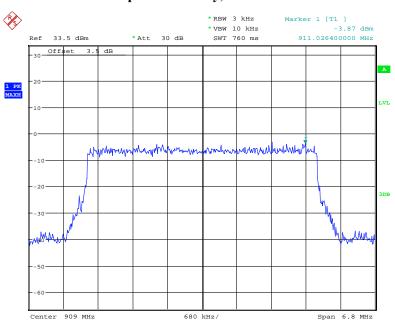
Channel	Frequency (MHz)	Antenna 0 (dBm/3kHz)	Antenna 1 (dBm/3kHz)	Limit (dBm/3kHz)				
	5M Mode							
Low	909	-3.87	-2.93	≤8				
Middle	915	-3.29	-3.93	≤8				
High	921	-3.25	-2.91	≤8				
10M Mode								
Low	909	-6.51	-6.70	≤8				
Middle	915	-6.11	-7.48	≤8				
High	921	-6.94	-6.42	≤8				
20M Mode								
Low	914	-8.06	-7.49	≤8				
Middle	915	-8.05	-8.03	≤8				
High	916	-7.37	-8.13	≤8				

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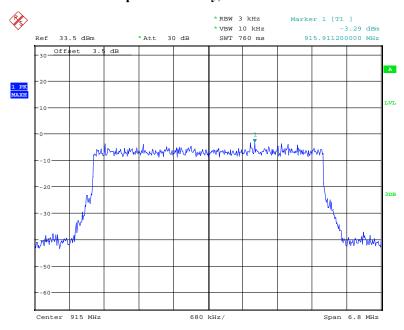
Power Spectral Density, 5M Mode Low Channel

Report No.: RSZ190828003-00B



Date: 9.SEP.2019 17:28:49

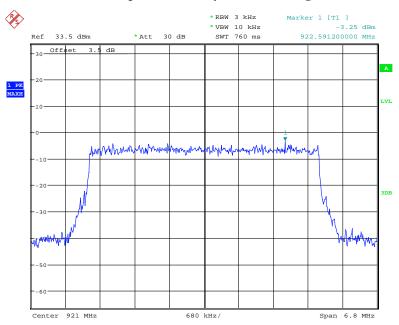
Power Spectral Density, 5M Mode Middle Channel



Date: 9.SEP.2019 17:26:57

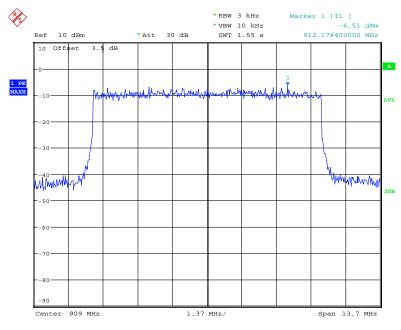
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Power Spectral Density, 5M Mode High Channel



Date: 9.SEP.2019 17:26:10

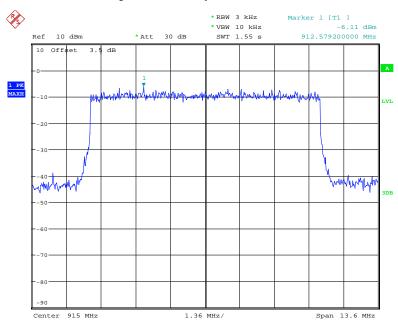
Power Spectral Density, 10M Mode Low Channel



Date: 9.SEP.2019 15:44:02

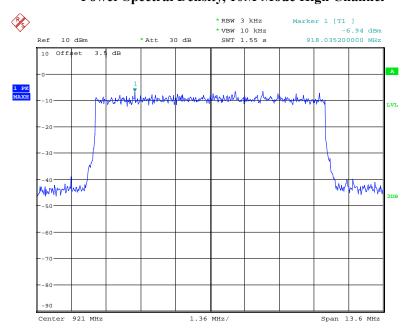
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Power Spectral Density, 10M Mode Middle Channel



Date: 9.SEP.2019 15:43:18

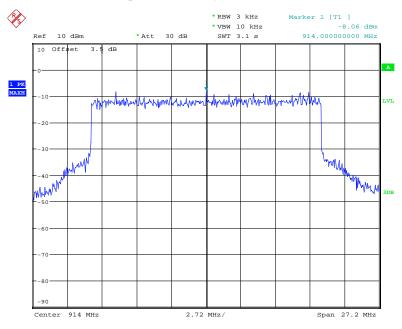
Power Spectral Density, 10M Mode High Channel



Date: 9.SEP.2019 15:42:38

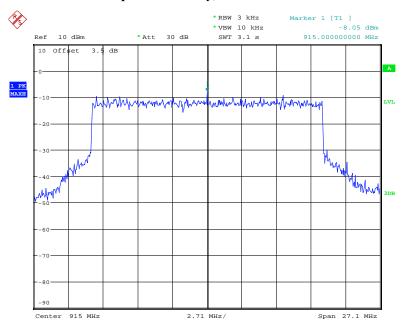
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Power Spectral Density, 20M Mode Low Channel



Date: 9.SEP.2019 15:39:58

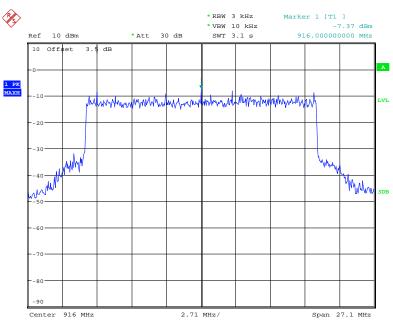
Power Spectral Density, 20M Mode Middle Channel



Date: 9.SEP.2019 15:38:50

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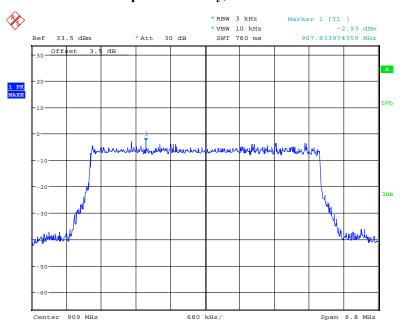
Power Spectral Density, 20M Mode High Channel



Date: 9.SEP.2019 15:41:23

Antenna 1

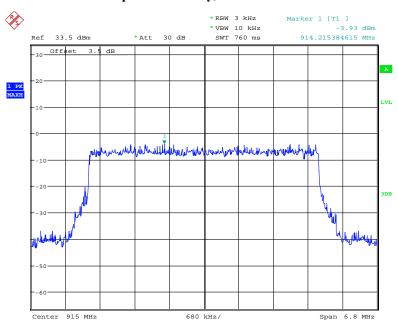
Power Spectral Density, 5M Mode Low Channel



Date: 12.OCT.2019 09:52:57

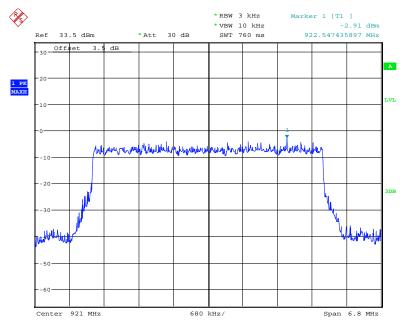
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Power Spectral Density, 5M Mode Middle Channel



Date: 12.0CT.2019 09:54:19

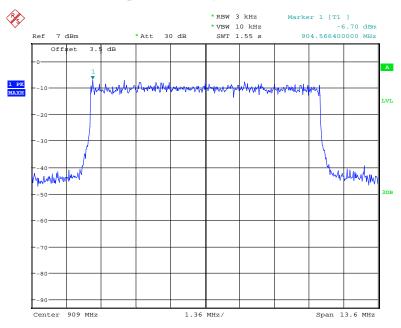
Power Spectral Density, 5M Mode High Channel



Date: 12.OCT.2019 09:55:33

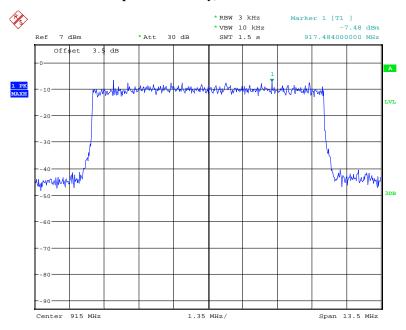
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Power Spectral Density, 10M Mode Low Channel



Date: 9.SEP.2019 14:29:57

Power Spectral Density, 10M Mode Middle Channel

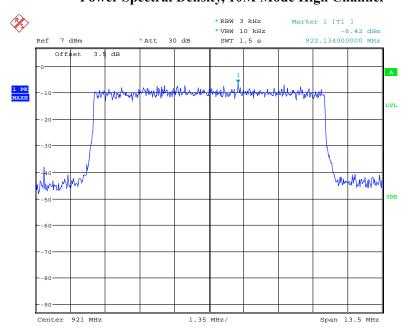


Date: 9.SEP.2019 14:28:23

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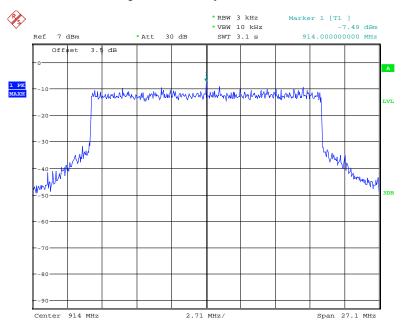
Power Spectral Density, 10M Mode High Channel

Report No.: RSZ190828003-00B



Date: 9.SEP.2019 14:29:12

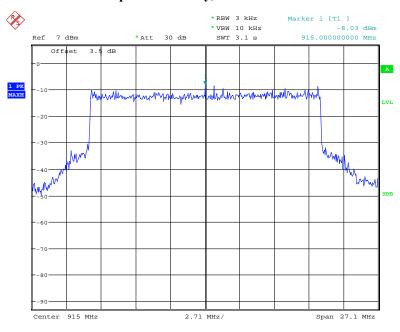
Power Spectral Density, 20M Mode Low Channel



Date: 9.SEP.2019 14:30:53

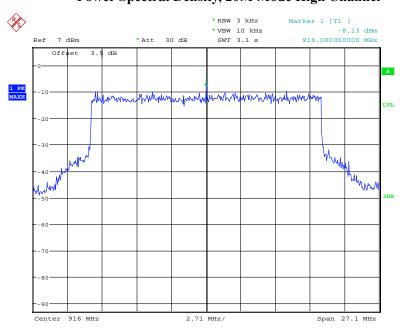
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Power Spectral Density, 20M Mode Middle Channel



Date: 9.SEP.2019 14:24:18

Power Spectral Density, 20M Mode High Channel



Date: 9.SEP.2019 14:25:30

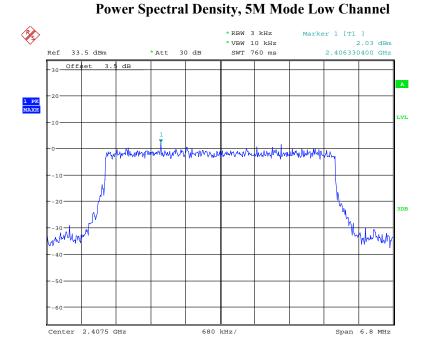
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For 2.4GHz:

Channel	Frequency (MHz)	Antenna 0 (dBm/3kHz)	Antenna 1 (dBm/3kHz)	Limit (dBm/3kHz)				
	5M Mode							
Low	2407.5	2.03	1.31	≤8				
Middle	2439.5	1.67	1.26	≤8				
High	2471.5	3.07	2.93	≤8				
10M Mode								
Low	2407.5	-5.14	-5.47	≤8				
Middle	2439.5	-5.12	-4.96	≤8				
High	2471.5	-4.61	-5.39	≤8				
	20M Mode							
Low	2412.5	-7.73	-7.44	≤8				
Middle	2437.5	-7.52	-7.88	≤8				
High	2462.5	-8.22	-8.51	≤8				

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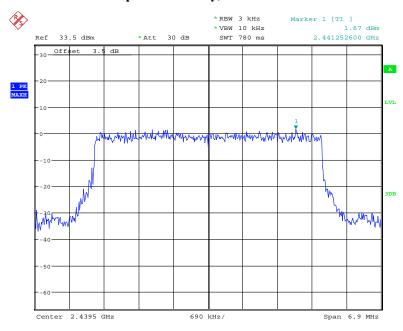
Antenna 0



Report No.: RSZ190828003-00B

Date: 9.SEP.2019 16:38:57

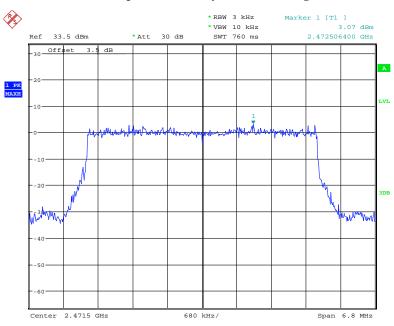
Power Spectral Density, 5M Mode Middle Channel



Date: 9.SEP.2019 16:35:51

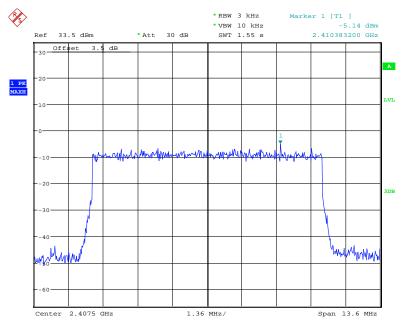
FCC Part 15.247 Page 91 of 99

Power Spectral Density, 5M Mode High Channel



Date: 9.SEP.2019 16:39:50

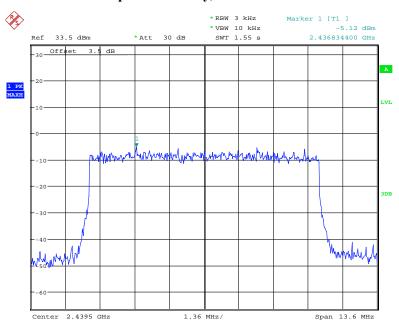
Power Spectral Density, 10M Mode Low Channel



Date: 9.SEP.2019 16:42:25

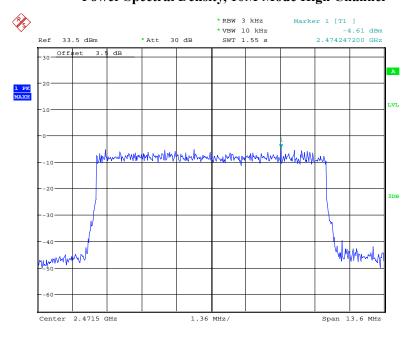
FCC Part 15.247 Page 92 of 99

Power Spectral Density, 10M Mode Middle Channel



Date: 9.SEP.2019 16:41:33

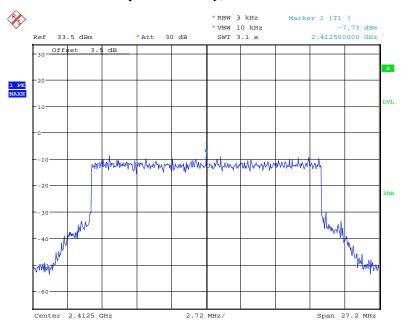
Power Spectral Density, 10M Mode High Channel



Date: 9.SEP.2019 16:40:46

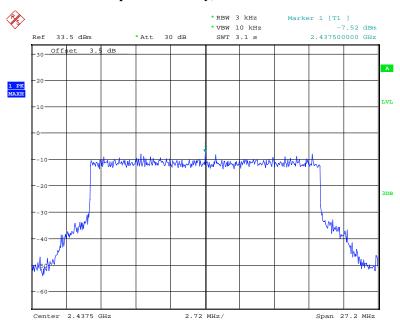
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Power Spectral Density, 20M Mode Low Channel



Date: 9.SEP.2019 16:43:40

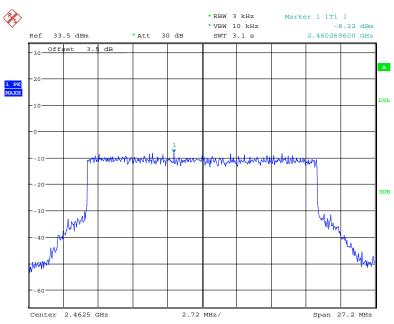
Power Spectral Density, 20M Mode Middle Channel



Date: 9.SEP.2019 16:44:32

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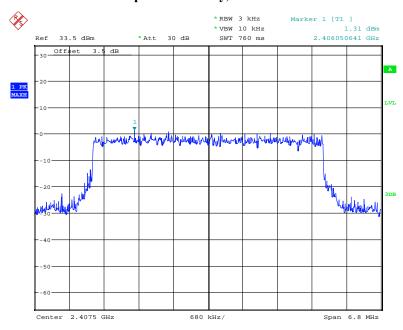
Power Spectral Density, 20M Mode High Channel



Date: 9.SEP.2019 16:45:19

Antenna 1

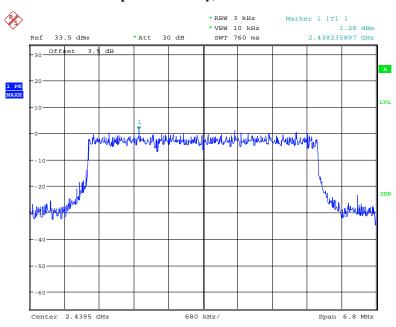
Power Spectral Density, 5M Mode Low Channel



Date: 6.SEP.2019 18:23:59

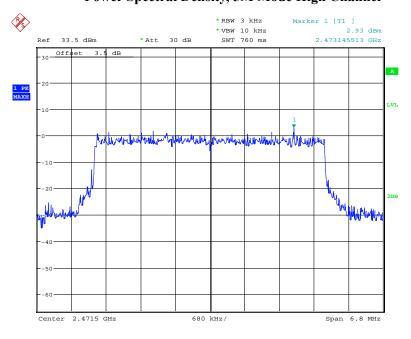
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Power Spectral Density, 5M Mode Middle Channel



Date: 6.SEP.2019 18:22:06

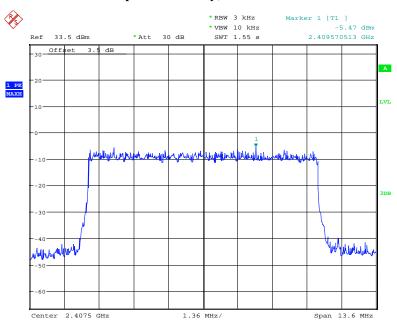
Power Spectral Density, 5M Mode High Channel



Date: 6.SEP.2019 18:23:09

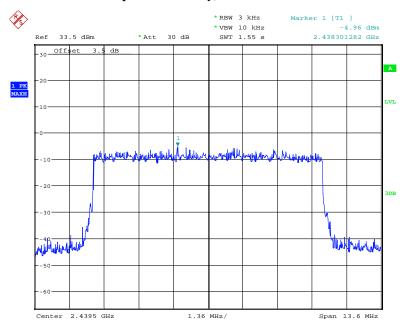
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Power Spectral Density, 10M Mode Low Channel



Date: 6.SEP.2019 18:18:00

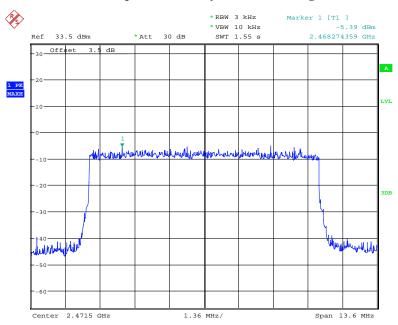
Power Spectral Density, 10M Mode Middle Channel



Date: 6.SEP.2019 18:16:46

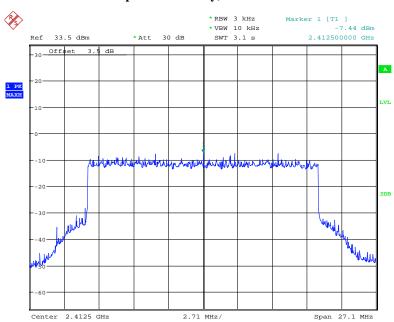
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Power Spectral Density, 10M Mode High Channel



Date: 6.SEP.2019 18:19:19

Power Spectral Density, 20M Mode Low Channel

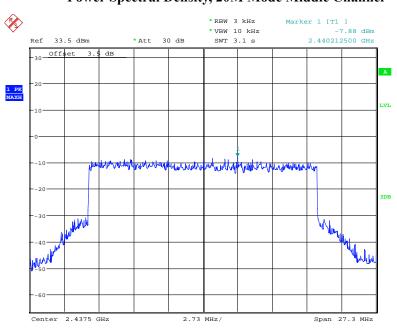


Date: 6.SEP.2019 18:26:43

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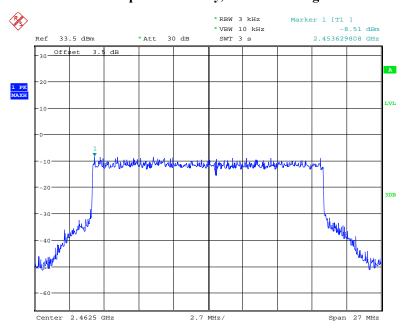
Power Spectral Density, 20M Mode Middle Channel

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Date: 6.SEP.2019 18:27:41

Power Spectral Density, 20M Mode High Channel



Date: 6.SEP.2019 18:29:02

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