

FCC Part 15C

Measurement and Test Report

For

JMA Alejandro Altuna S.L.U.

BIDEKURTZETA 6, ARRASATE, GIPUZOA, Spain

FCC ID: 2AEZ5M-BT

FCC Rule(s):	<u>FCC Part 15.231</u>
Product Description:	<u>Remote control</u>
Tested Model:	<u>M-BT</u>
Report No.:	<u>STR17128267I-2</u>
Sample Receipt Date:	<u>2017-12-21</u>
Tested Date:	<u>2017-12-22 to 2018-03-30</u>
Issued Date:	<u>2018-04-03</u>
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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM Test Technology Co., Ltd.

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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: JMA Alejandro Altuna S.L.U.
Address of applicant: BIDEKURTZETA 6, ARRASATE, GIPUZOA, Spain

Manufacturer: Shenzhen C&D Electronics Co., Ltd
Address of manufacturer: 9F, BLOCK A, TOWER 9, BAONENG SCIENCE & TECHNOLOGY PARK, QINGHU IND, AREA, QINGXIANG RD, SHENZHEN, 518109 CHINA

General Description of EUT	
Product Name:	Remote control
Trade Name:	JMA
Model No.:	M-BT
Rated Voltage:	DC 3.0V
<i>Note: The test data is gathered from a production sample provided by the manufacturer.</i>	

Technical Characteristics of EUT	
Frequency Range:	315.00MHz, 433.92 MHz, 390.00 MHz
Max. Field Strength:	433.92MHz: 79.85dBuV/m(3m) 315.00MHz: 84.13dBuV/m(3m) 390.00 MHz:88.79 dBuV/m(3m)
Data Rate:	/
Modulation:	ASK
Antenna Type:	PCB Antenna
Antenna Gain:	-5.2dBi
Lowest Internal Frequency:	16MHz

1.2 Test Standards

The following report is prepared on behalf of the JMA Alejandro Altuna S.L.U. in accordance with FCC Part 15, Subpart C, and section 15.231, 15.203, 15.205 and 15.209 of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC Part 15, Subpart C, and section 15.231, 15.203, 15.205 and 15.209 of the Federal Communication Commissions rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission/immunity, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices, and ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

1.4 Test Facility

FCC – Registration No.: 125990

Shenzhen SEM Test Technology Co., Ltd. Laboratory has been recognized to perform compliance testing on equipment subject to the Commissions Declaration Of Conformity (DOC). The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Shenzhen SEM.Test Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

1.5 EUT Setup and Test Mode

The EUT was operated at continuous transmitting mode that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	EUT TX	433.92Mhz; 390 Mhz;315 Mhz

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
/	/	/	/

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
Occupied Bandwidth	Conducted	$\pm 1.5\%$
Conducted Spurious Emission	Conducted	$\pm 2.17\text{dB}$
Transmission Time	Conducted	$\pm 5\%$
Conducted Emissions	Conducted	9-150kHz $\pm 3.74\text{dB}$
		0.15-30MHz $\pm 3.34\text{dB}$
Transmitter Spurious Emissions	Radiated	30-200MHz $\pm 4.52\text{dB}$
		0.2-1GHz $\pm 5.56\text{dB}$
		1-6GHz $\pm 3.84\text{dB}$
		6-18GHz $\pm 3.92\text{dB}$

1.7 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2017-06-12	2018-06-11
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2017-06-12	2018-06-11
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2017-06-12	2018-06-11
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2017-06-12	2018-06-11
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2017-06-12	2018-06-11
SEMT-1011	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2017-06-08	2018-06-07
SEMT-1042	Horn Antenna	ETS	3117	00086197	2017-06-08	2018-06-07
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	2017-06-08	2018-06-07
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2017-06-08	2018-06-07
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2017-06-12	2018-06-11
SEMT-1003	L.I.S.N	Schwarz beck	NSLK8126	8126-224	2017-06-12	2018-06-11
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2017-06-12	2018-06-11

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§ 15.203	Antenna Requirement	Compliant
§15.205	Restricted Band of Operation	Compliant
§ 15.207(a)	Conducted Emission	N/A
§ 15.209	Radiated Spurious Emissions	Compliant
§15.231(a)	Deactivation Testing	Compliant
§15.231(b)	Radiated Emissions	Compliant
§15.231(c)	20dB Bandwidth Testing	Compliant

3. Antenna Requirement

3.1 Standard Applicable

According to FCC Part 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.

3.2 Test Result

This product has a PCB antenna, fulfill the requirement of this section.

5. Radiated Emissions

5.1 Standard Applicable

According to §15.231(b), the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (microvolts/meter)	Field Strength of Spurious Emissions (microvolts/meter)
40.66 - 40.70	2,250	225
70 - 130	1,250	125
130 - 174	1,250 to 3,750 **	125 to 375 **
174 - 260	3,750	375
260 - 470	3,750 to 12,500 **	375 to 1,250 **
Above 470	12,500	1,250

** linear interpolations

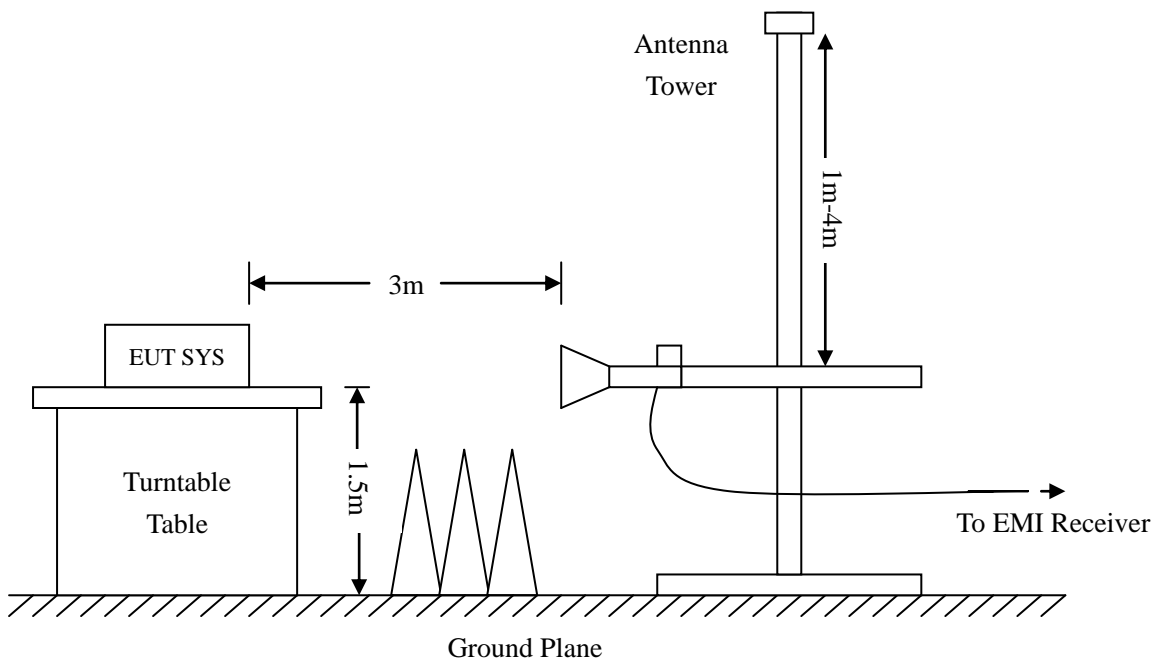
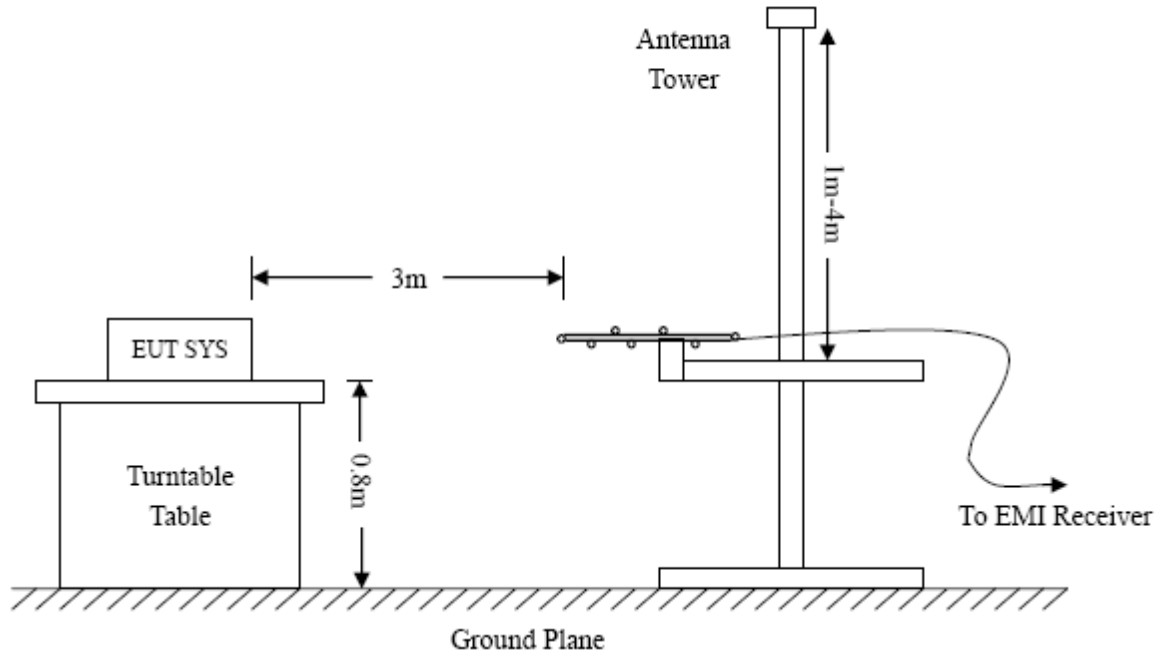
The limits on the field strength of the spurious emissions in the above table are based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in §15.209, whichever limit permits a higher field strength.

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

Compliance with the provisions of §15.205 shall be demonstrated using the measurement instrumentation specified in that section.

5.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.231(b) and FCC Part 15.209 Limit.



5.3 Corrected Amplitude & Margin Calculation

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

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Loss} + \text{Cab. Loss} - \text{Ampl. Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of $-6\text{dB}\mu\text{V}$ means the emission is $6\text{dB}\mu\text{V}$ below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15C Limit}$$

5.4 Environmental Conditions

Temperature:	21° C
Relative Humidity:	50%
ATM Pressure:	1011 mbar

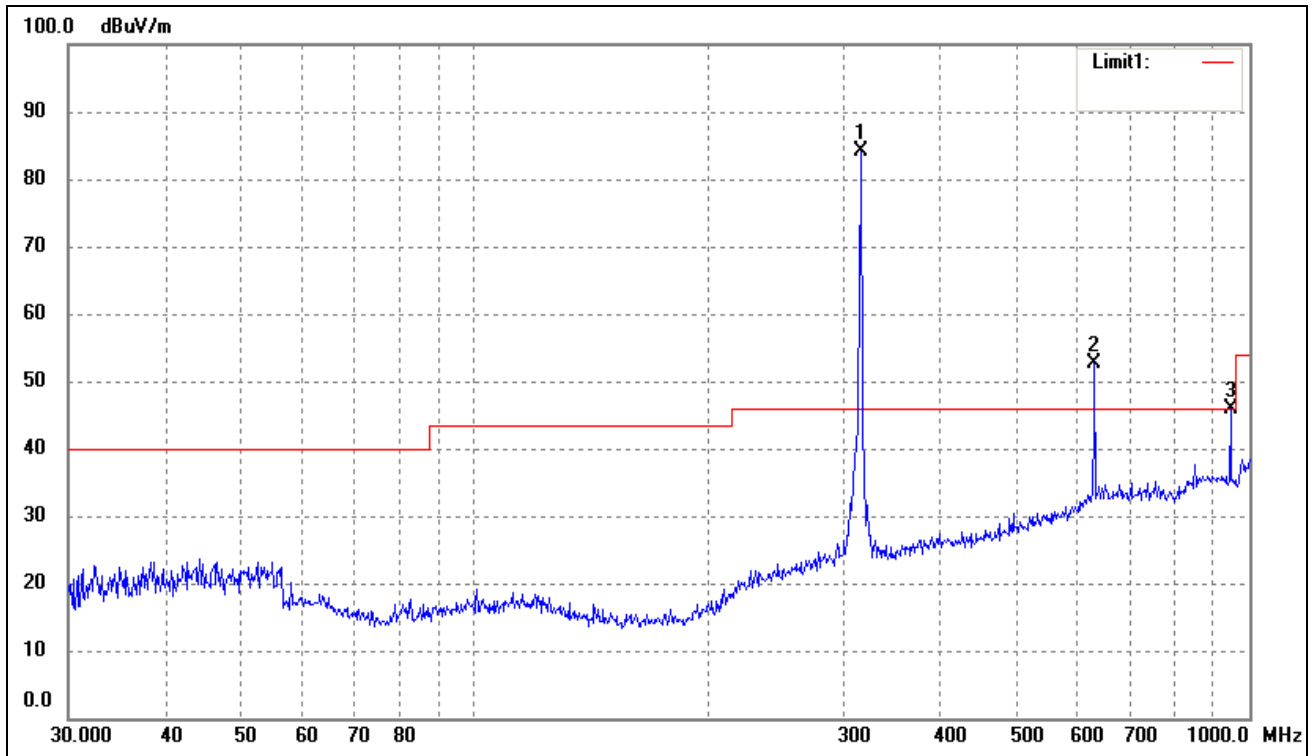
5.5 Summary of Test Results/Plots

According to the data below, the FCC Part 15.205, 15.209 and 15.231 standards, and had the worst margin of:

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

Plot of Radiated Emissions Test Data

EUT: *Remote control*
 Tested Model: *M-BT*
 Operating Condition: *SRD Transmitting(315.00MHz)*
 Comment: *DC 3V*
 Test Specification: *Horizontal*

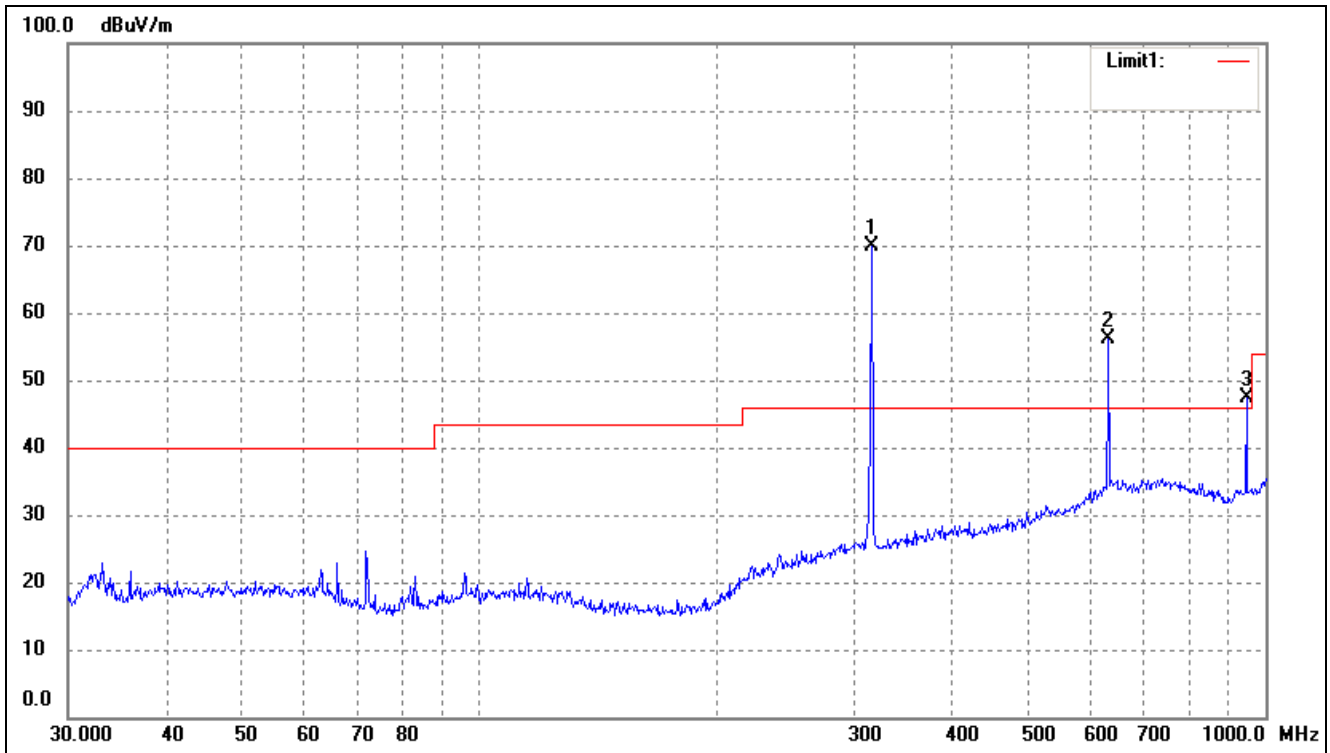


No.	Frequency MHz	Reading dBuV/m	Corr. Factor(dB)	Dutycycle Factor (dB)	Result dBuV/m	Limit dBuV/m	Margin (dB)	Deg. (°)	Height (cm)	Remark
1	315.0000	93.53	-9.4	N/A	84.13	95.62	-11.49	261	100	peak
	315.0000	/	/	-20.23	63.9	75.62	-11.72	71	100	Ave
2	630.0000	53.81	-1.29	N/A	52.52	75.62	-23.10	183	100	peak
	630.0000	/	/	-20.23	32.29	55.62	-23.33	217	100	Ave
3	945.0000	49.57	-3.72	N/A	45.85	75.62	-29.77	231	100	peak
	945.0000	/	/	-20.23	25.62	55.62	-30.00	103	100	Ave

Above 1GHz

No.	Frequency MHz	Reading dBuV/m	Corr. Factor (dB)	Dutycycle Factor (dB)	Result dBuV/m	Limit dBuV/m	Margin dB	Deg. (°)	Height (cm)	Remark
1	1260.000	47.24	-9.32	N/A	37.92	74	-36.08	114	100	Peak
	1260.000	/	/	-20.23	17.69	54	-36.31	21	100	Ave
2	1575.000	41.06	-4.44	N/A	36.62	74	-37.38	31	100	Peak
	1575.000	/	/	-20.23	16.39	54	-37.61	51	100	Ave

Test Specification: Vertical



No.	Frequency MHz	Reading dBuV/m	Corr. Factor(dB)	Dutycycle Factor (dB)	Result dBuV/m	Limit dBuV/m	Margin (dB)	Deg. (°)	Height (cm)	Remark
1	315.0000	79.27	-9.4	N/A	69.87	95.62	-25.75	261	100	peak
	315.0000	/	/	-20.23	49.64	75.62	-25.98	71	100	Ave
2	630.0000	57.44	-1.29	N/A	56.15	75.62	-19.47	183	100	peak
	630.0000	/	/	-20.23	35.92	55.62	-19.70	217	100	Ave
3	945.0000	51.02	-3.72	N/A	47.3	75.62	-28.32	231	100	peak
	945.0000	/	/	-20.23	27.07	55.62	-28.55	103	100	Ave

Above 1GHz

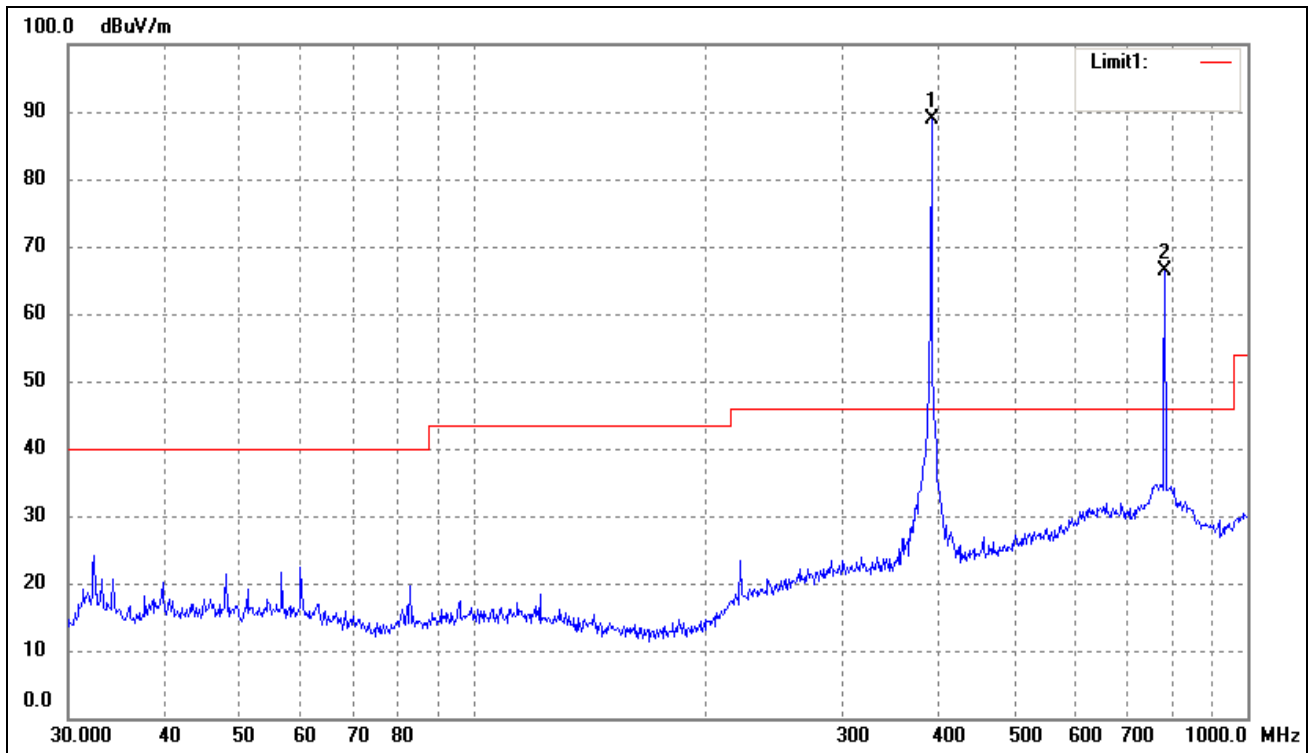
No.	Frequency MHz	Reading dBuV/m	Corr. Factor (dB)	Dutycycle Factor (dB)	Result dBuV/m	Limit dBuV/m	Margin dB	Deg. (°)	Height (cm)	Remark
1	1260.000	35.46	-6.9	N/A	28.56	74	-45.44	114	100	Peak
	1260.000	/	/	-20.23	8.33	54	-45.67	21	100	Ave
2	1575.000	36.32	-3.24	N/A	33.08	74	-40.92	31	100	Peak
	1575.000	/	/	-20.23	12.85	54	-41.15	51	100	Ave

Note: Testing is carried out with frequency rang 30MHz to the tenth harmonics, which above 5th Harmonics are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

The fundamental frequency is 315MHz, so the fundamental and spurious emissions radiated limit base on the operating frequency 315MHz.

Plot of Radiated Emissions Test Data

EUT: *Remote control*
 Tested Model: *M-BT*
 Operating Condition: *SRD Transmitting(390.00MHz)*
 Comment: *DC3V*
 Test Specification: *Horizontal*

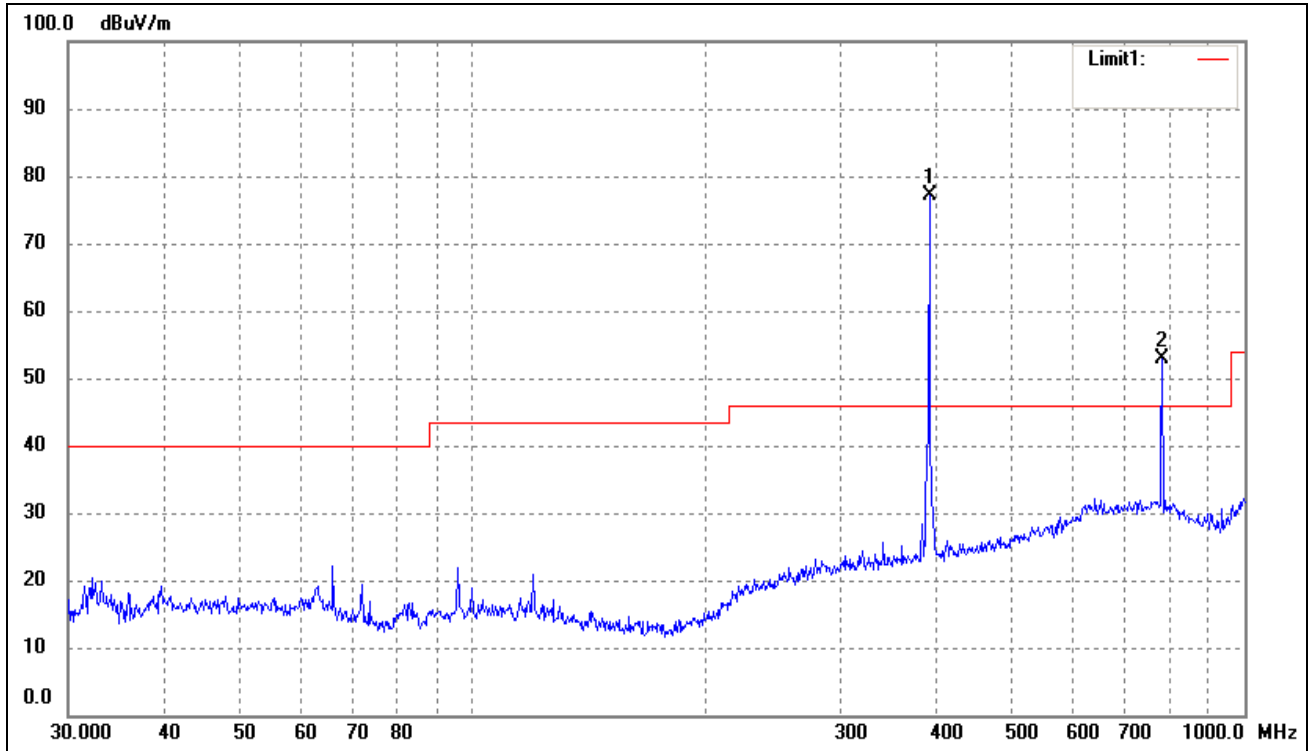


No.	Frequency MHz	Reading dBuV/m	Corr. Factor(dB)	Dutycycle Factor (dB)	Result dBuV/m	Limit dBuV/m	Margin (dB)	Deg. (°)	Height (cm)	Remark
2	390.0000	97.08	-8.29	N/A	88.79	99.24	-10.45	71	100	peak
	390.0000	/	/	-18.8	69.99	79.24	-9.25	12	100	Ave
2	780.0000	68.15	-1.89	N/A	66.26	79.24	-12.98	32	100	peak
	780.0000	/	/	-18.8	47.46	59.24	-11.78	114	100	Ave

Above 1GHz

No.	Frequency MHz	Reading dBuV/m	Corr. Factor (dB)	Dutycycle Factor (dB)	Result dBuV/m	Limit dBuV/m	Margin dB	Deg. (°)	Height (cm)	Remark
1	1170.000	39.26	-7.22	N/A	32.04	74	-41.96	114	100	Peak
	1170.000	/	/	-18.8	13.24	54	-40.76	21	100	Ave
2	1560.000	36.38	-2.57	N/A	33.81	74	-40.19	31	100	Peak
	1560.000	/	/	-18.8	15.01	54	-38.99	51	100	Ave

Test Specification: Vertical



No.	Frequency MHz	Reading dBuV/m	Corr. Factor(dB)	Dutycycle Factor (dB)	Result dBuV/m	Limit dBuV/m	Margin (dB)	Deg. (°)	Height (cm)	Remark
2	390.0000	85.33	-8.29	N/A	77.04	99.24	-22.2	71	100	peak
	390.0000	/	/	-18.8	58.24	79.24	-21	12	100	Ave
2	780.0000	54.68	-1.89	N/A	52.79	79.24	-26.45	32	100	peak
	780.0000	/	/	-18.8	33.99	59.24	-25.25	114	100	Ave

Above 1GHz

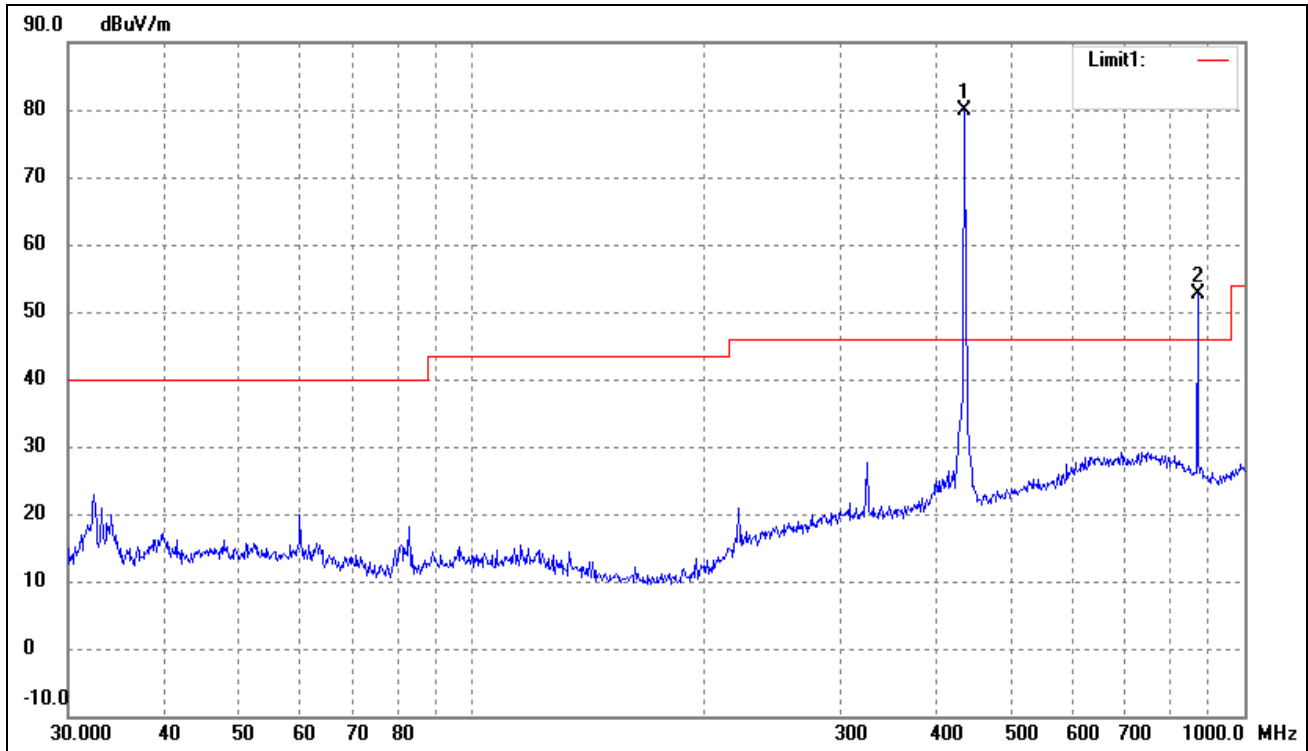
No.	Frequency MHz	Reading dBuV/m	Corr. Factor (dB)	Dutycycle Factor (dB)	Result dBuV/m	Limit dBuV/m	Margin dB	Deg. (°)	Height (cm)	Remark
1	1170.000	48.92	-7.2	N/A	41.72	74	-32.28	114	100	Peak
	1170.000	/	/	-18.8	22.92	54	-31.08	21	100	Ave
2	1560.000	47.73	-2.22	N/A	45.51	74	-28.49	31	100	Peak
	1560.000	/	/	-18.8	26.71	54	-27.29	51	100	Ave

Note: Testing is carried out with frequency rang 30MHz to the tenth harmonics, which above 4th Harmonics are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

The fundamental frequency is 390MHz, so the fundamental and spurious emissions radiated limit base on the operating frequency 390MHz.

Plot of Radiated Emissions Test Data

EUT: *Remote control*
 Tested Model: *M-BT*
 Operating Condition: *SRD Transmitting(433.92MHz)*
 Comment: *DC3V*
 Test Specification: *Horizontal*

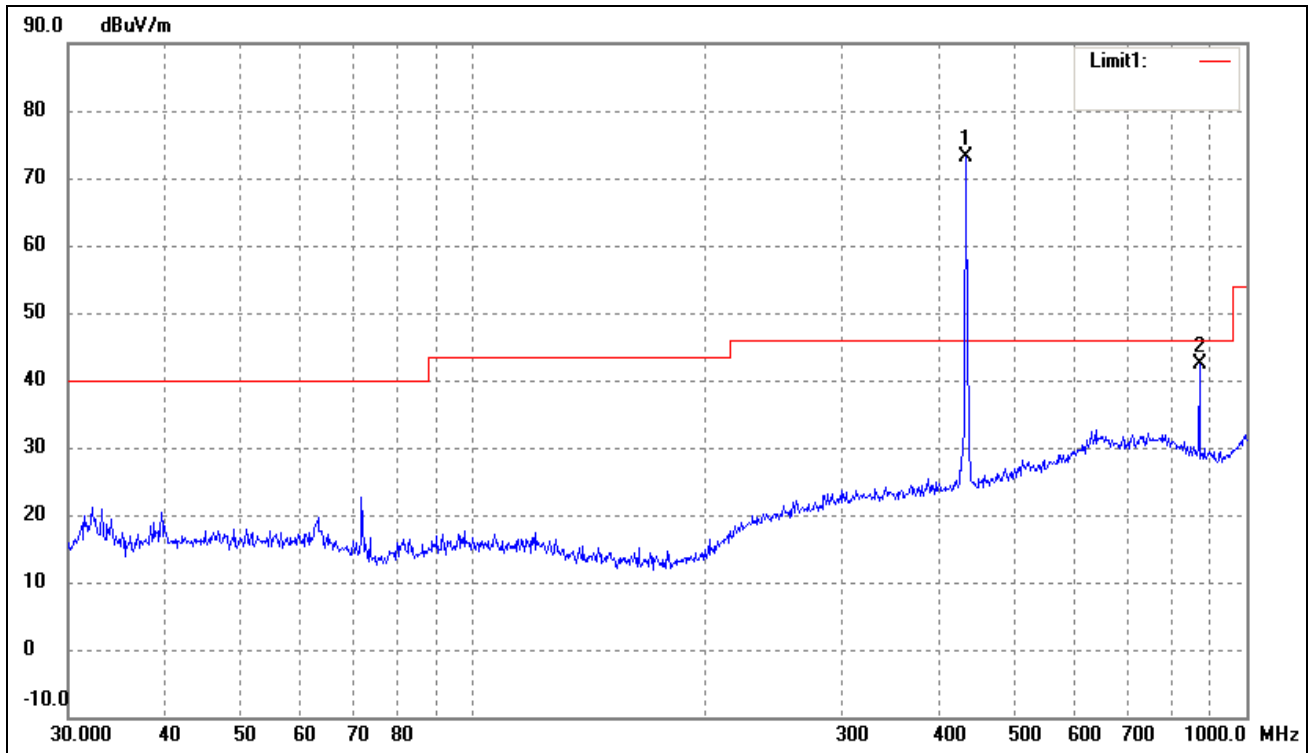


No.	Frequency MHz	Reading dBuV/m	Corr. Factor(dB)	Dutycycle Factor (dB)	Result dBuV/m	Limit dBuV/m	Margin (dB)	Deg. (°)	Height (cm)	Remark
2	433.9200	87.59	-7.74	N/A	79.85	100.82	-20.97	71	100	peak
	433.9200	/	/	-22.47	57.38	80.82	-23.44	12	100	Ave
2	867.8400	54.95	-2.42	N/A	52.53	80.82	-28.29	32	100	peak
	867.8400	/	/	-22.47	30.06	60.82	-30.76	114	100	Ave

Above 1GHz

No.	Frequency MHz	Reading dBuV/m	Corr. Factor (dB)	Dutycycle Factor (dB)	Result dBuV/m	Limit dBuV/m	Margin dB	Deg. (°)	Height (cm)	Remark
1	1301.760	48.92	-7.2	N/A	41.72	74	-32.28	114	100	Peak
	1301.760	/	/	-22.47	19.25	54	-34.75	21	100	Ave
2	1735.680	47.73	-2.22	N/A	45.51	74	-28.49	31	100	Peak
	1735.680	/	/	-22.47	23.04	54	-30.96	51	100	Ave

Test Specification: Vertical



No.	Frequency MHz	Reading dBuV/m	Corr. Factor(dB)	Dutycycle Factor (dB)	Result dBuV/m	Limit dBuV/m	Margin (dB)	Deg. (°)	Height (cm)	Remark
2	433.9200	80.76	-7.74	N/A	73.02	100.82	-27.8	71	100	peak
	433.9200	/	/	-22.47	50.55	80.82	-30.27	12	100	Ave
2	867.8400	44.74	-2.42	N/A	42.32	80.82	-38.5	32	100	peak
	867.8400	/	/	-22.47	19.85	60.82	-40.97	114	100	Ave

Above 1GHz

No.	Frequency MHz	Reading dBuV/m	Corr. Factor (dB)	Dutycycle Factor (dB)	Result dBuV/m	Limit dBuV/m	Margin dB	Deg. (°)	Height (cm)	Remark
1	1301.760	47.52	-3.92	N/A	43.6	74	-30.4	114	100	Peak
	1301.760	/	/	-22.47	21.13	54	-32.87	21	100	Ave
2	1735.680	47.07	-2.09	N/A	44.98	74	-29.02	31	100	Peak
	1735.680	/	/	-22.47	22.51	54	-31.49	51	100	Ave

Note: Testing is carried out with frequency rang 30MHz to the tenth harmonics, which above 4th Harmonics are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

The fundamental frequency is 433.92MHz, so the fundamental and spurious emissions radiated limit base on the the operating frequency 433.92MHz.

6. 20dB Bandwidth

6.1 Standard Applicable

According to FCC Part 15.231(c), The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. Bandwidth is determined at the points 20 dB down from the modulated carrier.

6.1 Test Procedure

With the EUT's antenna attached, the EUT's 20dB Bandwidth power was received by the test antenna, which was connected to the spectrum analyzer with the START, and STOP frequencies set to the EUT's operation band.

6.2 Environmental Conditions

Temperature:	21° C
Relative Humidity:	52%
ATM Pressure:	1011 mbar

6.3 Summary of Test Results/Plots

Test Frequency MHz	20dB Bandwidth kHz	Limit kHz	Result
433.92	550.493	1084.8	Pass
390.00	536.192	975	Pass
315.00	480.694	787.5	Pass

Limit = Fundamental Frequency X 0.25% = 433.92 MHz X 0.25% = 1084 kHz

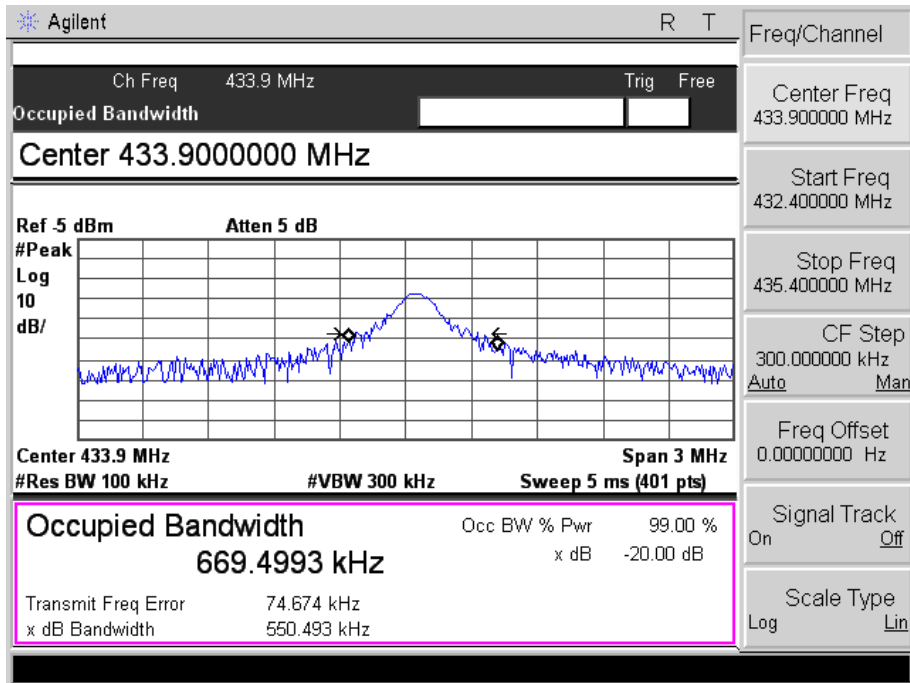
Limit = Fundamental Frequency X 0.25% = 390.00 MHz X 0.25% = 975 kHz

Limit = Fundamental Frequency X 0.25% = 315.00 MHz X 0.25% = 787.5 kHz

Please refer to the attached plots.

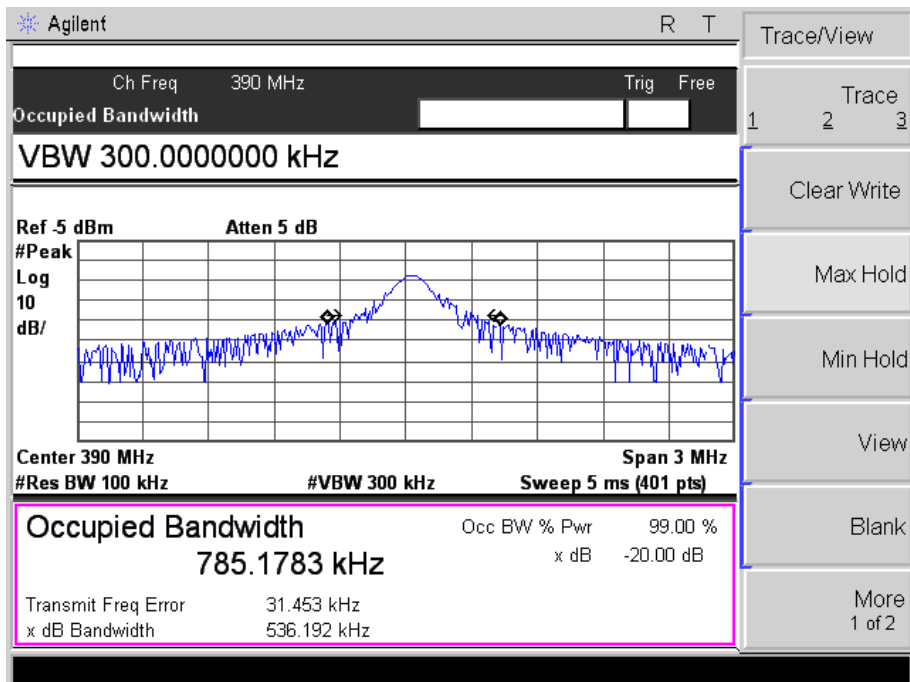
433.92MHz:

20dB Bandwidth Test Plot



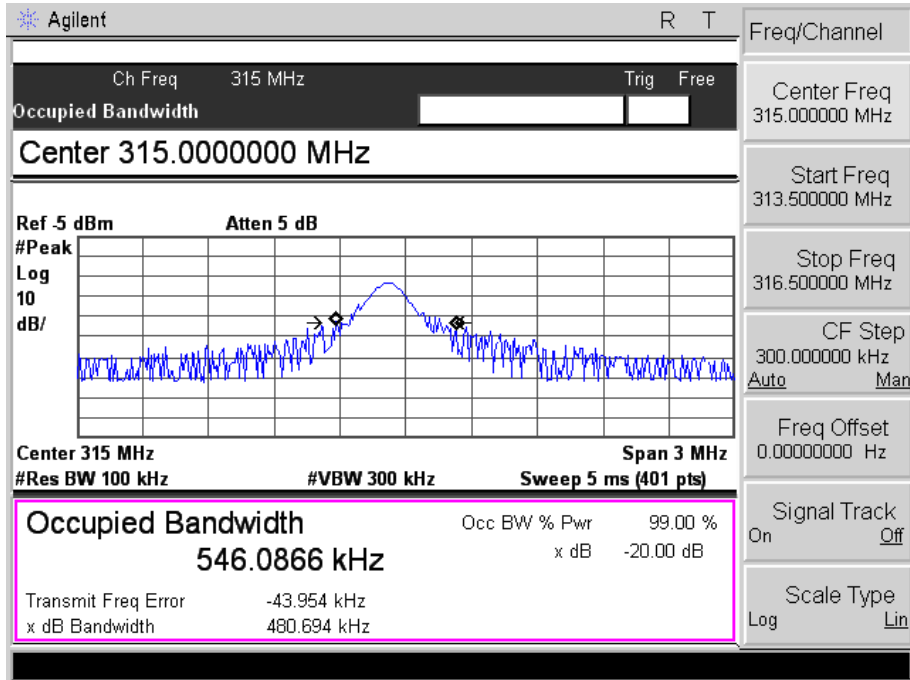
390.00MHz:

20dB Bandwidth Test Plot



315.00MHz:

20dB Bandwidth Test Plot



7. Transmission Time

7.1 Standard Applicable

According to FCC Part 15.231 (a), the transmitter shall be complied the following requirements:

- 1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.
- (2) A transmitter activated automatically shall cease transmission within 5 seconds after activation.
- (3) Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions, including data, to determine system integrity of transmitters used in security or safety applications are allowed if the total duration of transmissions does not exceed more than two seconds per hour for each transmitter. There is no limit on the number of individual transmissions, provided the total transmission time does not exceed two seconds per hour.

7.2 Test Procedure

With the EUT's antenna attached, the EUT's output signal was received by the test antenna, which was connected to the spectrum analyzer. Set the center frequency to 433.92MHz, than set the spectrum analyzer to Zero Span for the release time reading. During the testing, the switch was released then the EUT automatically deactivated.

7.3 Environmental Conditions

Temperature:	20° C
Relative Humidity:	52%
ATM Pressure:	1011 mbar

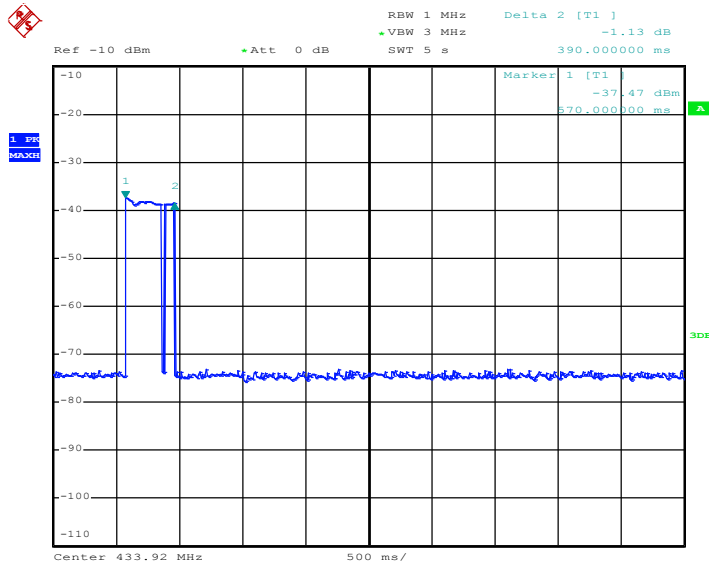
7.4 Summary of Test Results/Plots

Transmission Type	Test Frequency MHz	Transmission Time seconds	Limit s	Result
Manually	433.92	0.39	5	Pass
Manually	390.00	0.73	5	Pass
Manually	315.00	0.73	5	Pass

Please refer to the attached plots.

433.92MHz:

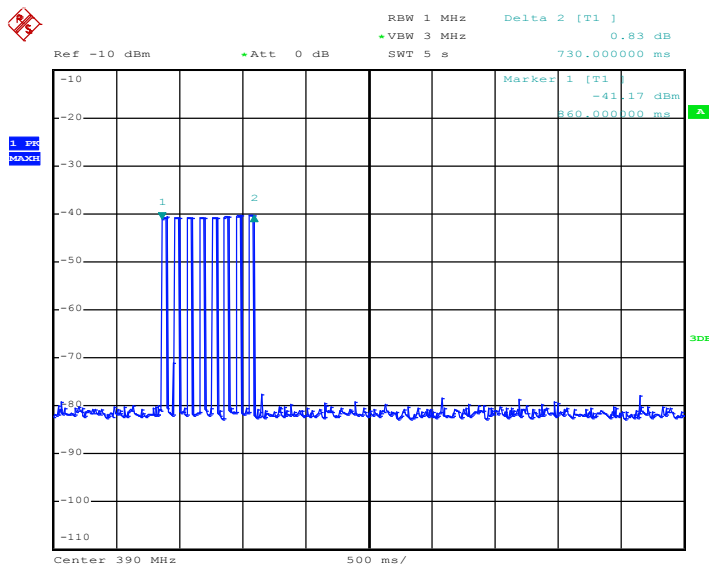
Transmission Time



Date: 8.APR.2018 15:33:50

390.00MHz:

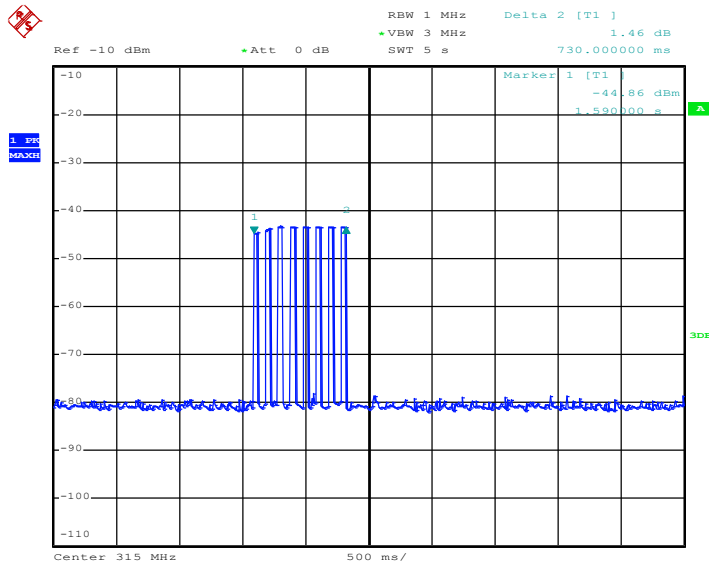
Transmission Time



Date: 8.APR.2018 15:34:18

315.00MHz:

Transmission Time



Date: 8.APR.2018 15:34:47

8. Duty Cycle

8.1 Standard Applicable

According to FCC Part 15.231 (b)(2) and 15.35 (c), For pulse operation transmitter, the averaging pulsed emissions are calculated by peak value of measured emission plus duty cycle factor.

8.2 Test Procedure

With the EUT's antenna attached, the EUT's output signal was received by the test antenna, which was connected to the spectrum analyzer. Set the center frequency to 433.92MHz, than set the spectrum analyzer to Zero Span for the release time reading. During the testing, the switch was released then the EUT automatically deactivated.

8.3 Environmental Conditions

Temperature:	20° C
Relative Humidity:	52%
ATM Pressure:	1011 mbar

8.4 Summary of Test Results/Plots

433.93MHz:

Type of Pulse	Width of Pulse ms	Quantity of Pulse	Transmission Time ms	Total Time (T _{on}) ms
Pulse 1 (Wide)	0.775	12	9.3	12.55
Pulse 2 (Narrow)	0.250	13	3.25	

Test Period (T _p) ms	Total Time (T _{on}) ms	Duty Cycle %	Duty Cycle Factor dB
102.5	7.17	7.52	-22.47

Remark: Duty Cycle Factor=20*log(Duty Cycle)

390.00 MHz

Type of Pulse	Width of Pulse ms	Quantity of Pulse	Transmission Time ms	Total Time (T _{on}) ms
Pulse 1 (Wide)	0.775	12	9.3	12.55
Pulse 2 (Narrow)	0.250	13	3.25	

Test Period (T _p) ms	Total Time (T _{on}) ms	Duty Cycle %	Duty Cycle Factor dB
98.62	11.32	11.47	-18.80

315.00MHz:

Type of Pulse	Width of Pulse ms	Quantity of Pulse	Transmission Time ms	Total Time (T _{on}) ms
Pulse 1(Wide)	0.537	16	8.59	9.60
Pulse 2(Narrow)	1.012	1	1.01	

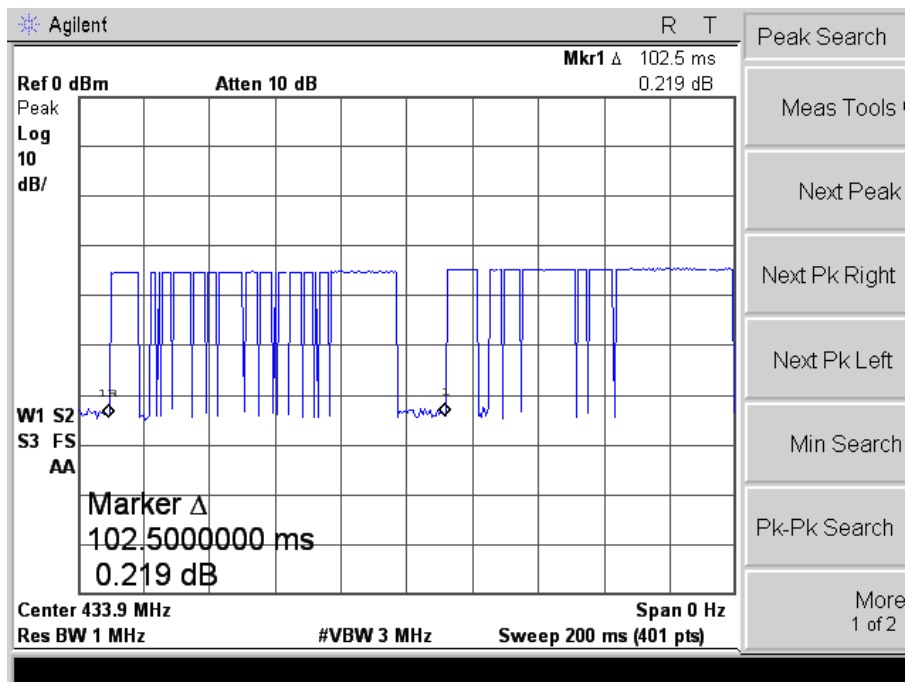
Test Period (T _p) ms	Total Time (T _{on}) ms	Duty Cycle %	Duty Cycle Factor dB
98.62	9.60	9.73	-20.23

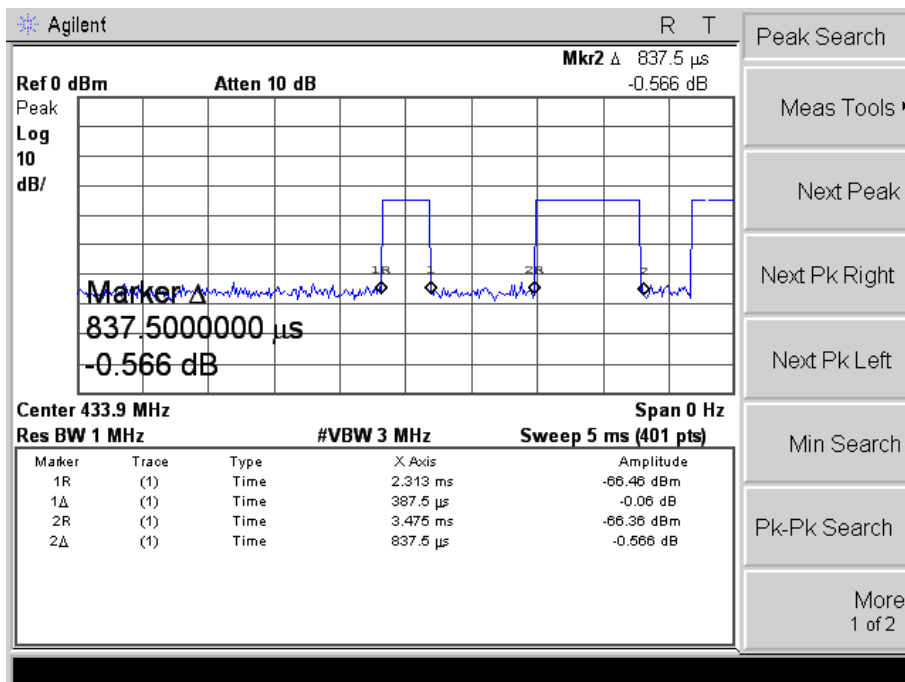
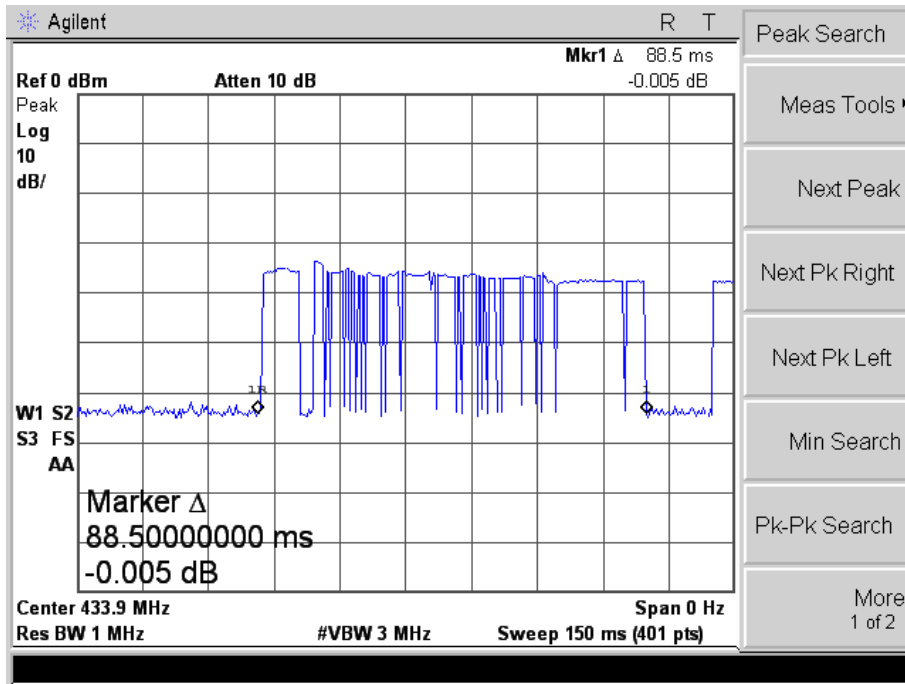
 Remark: Duty Cycle Factor= $20 \cdot \log(\text{Duty Cycle})$

Please refer to the attached test plots

433.92MHz:

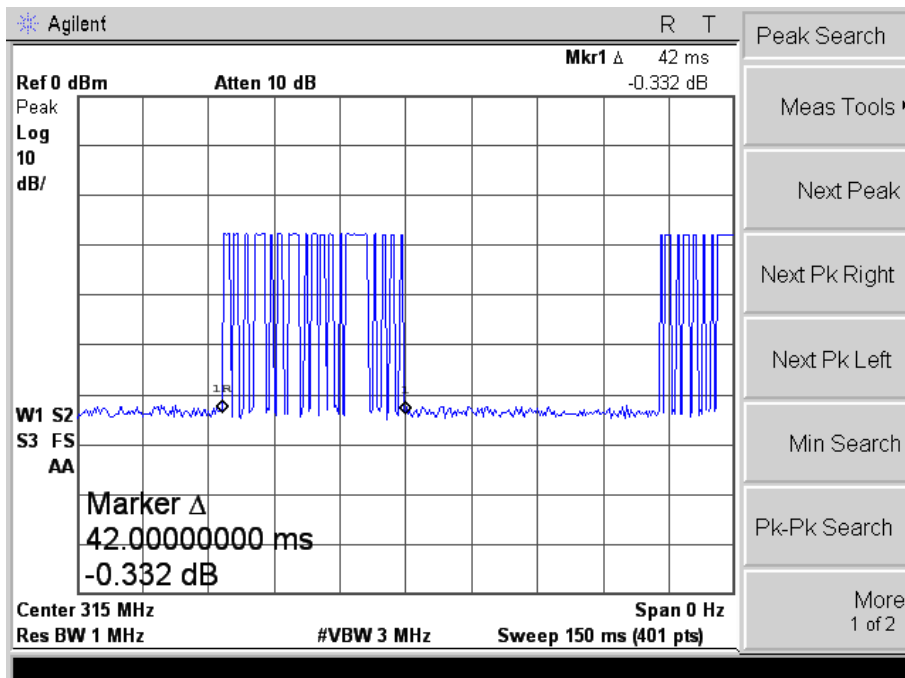
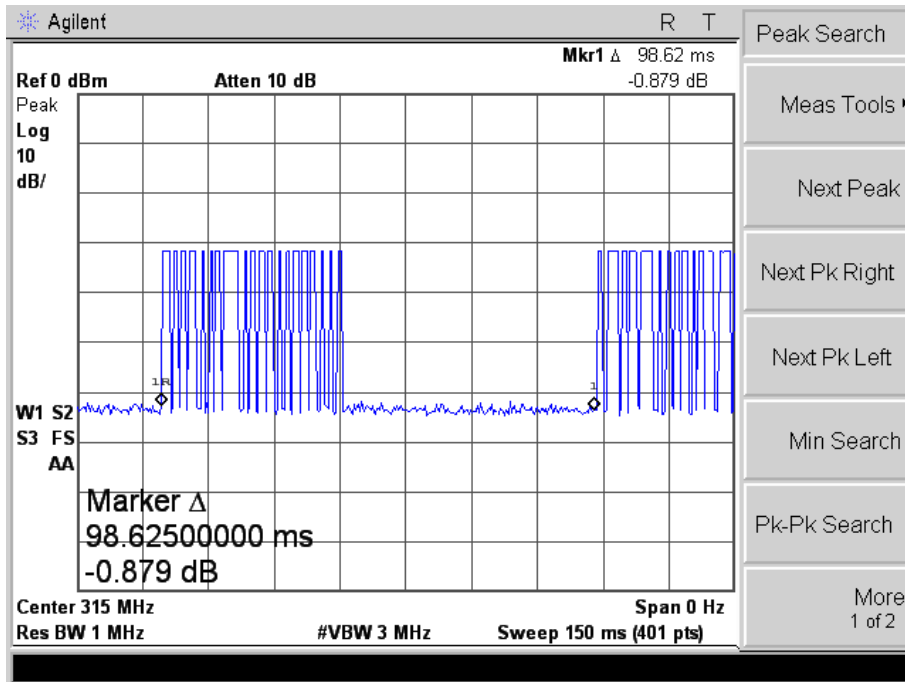
Width of Pulse



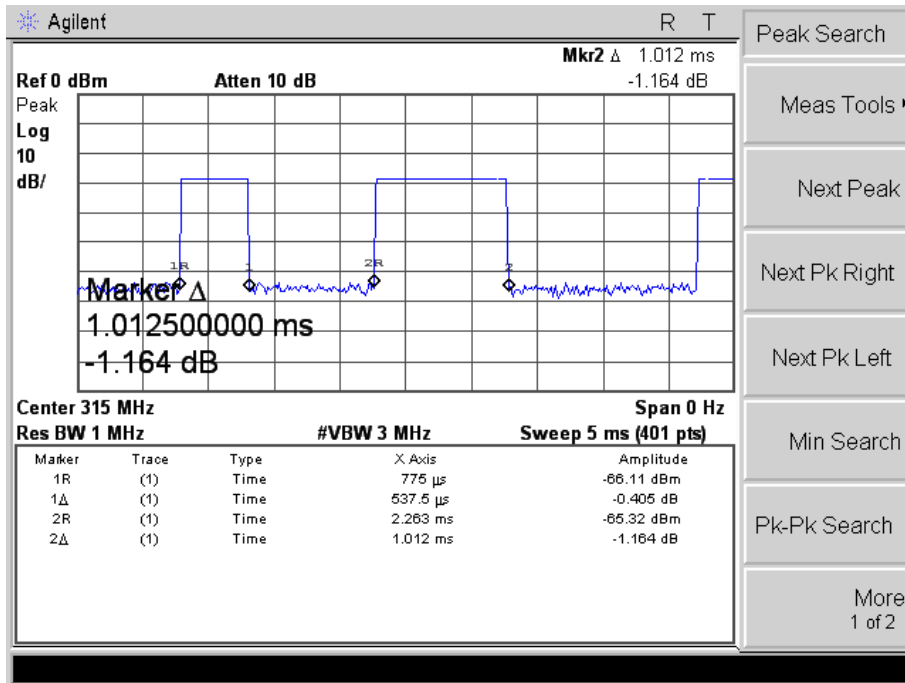


315.00MHz:

Quantity of Pulse

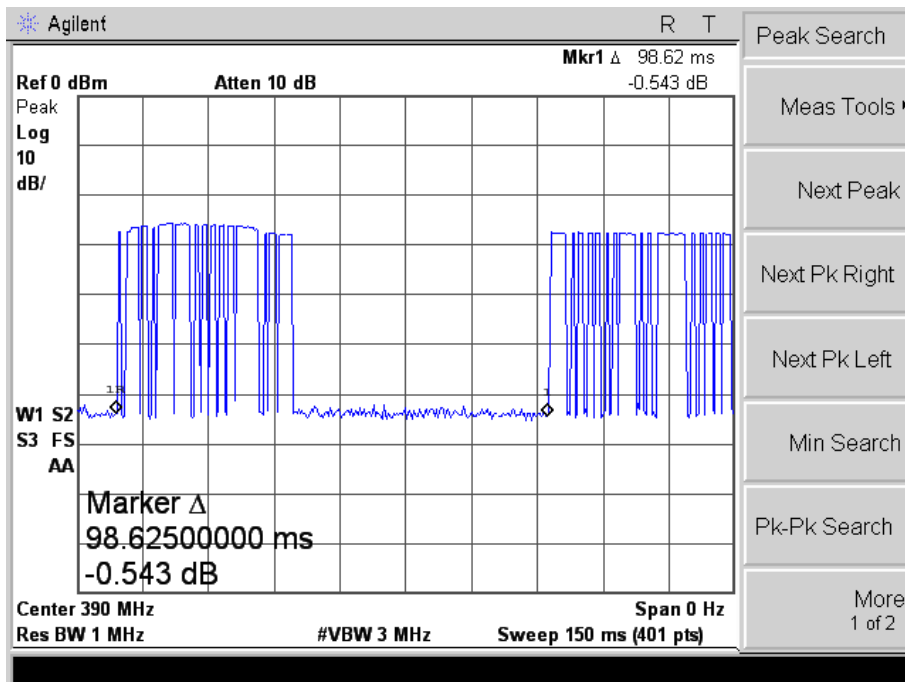


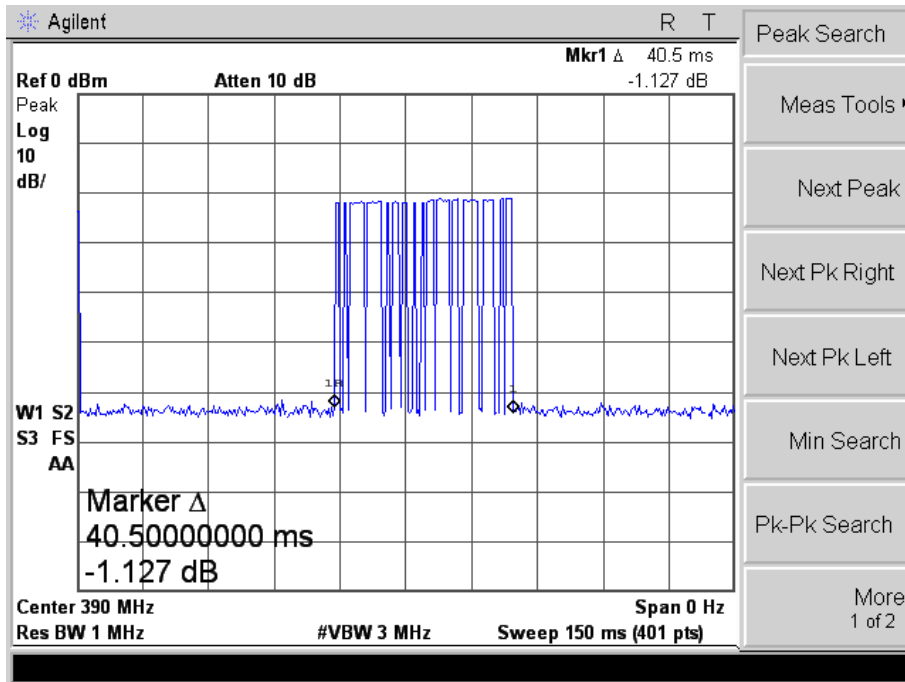
Width of Pulse 1 and Pulse 2



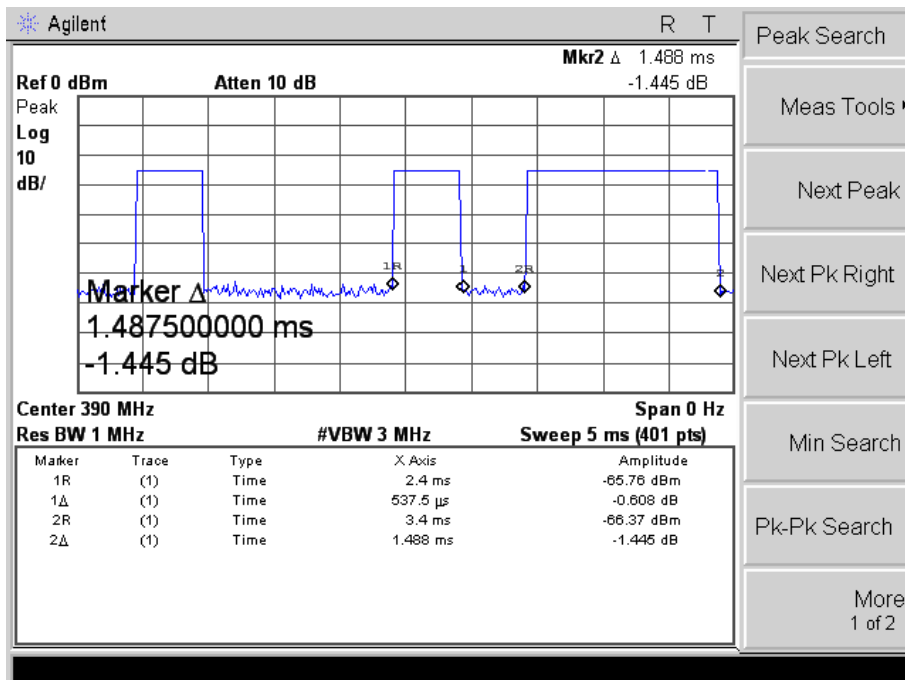
390.00MHz:

Quantity of Pulse





Width of Pulse 1 and Pulse 2



***** END OF REPORT *****