





FCC Test Report

FCC EVALUATION REPORT FOR CERTIFICATE	
Project Reference No.	270658
Product	Remote Training System
Brand Name	 motorola
Model	TRAVELFENCE50ZU
Alternate Model	WIRELESSFENCE25ZU
Tested according to	FCC Rules and Regulations Part 15 Subpart C 2013, 15.247 ANSI C63.4-2009

Tested in period	2014-10-26 to 2014-10-30
Issued date	2014-10-31
Name and address of the Test House	 Nemko Shanghai Ltd. Shenzhen Branch Unit CD, Floor 10, Tower 2, Financial base, Kefa Road 8#, Hi-Technology Park, Nanshan District, Shenzhen, China Phone : +86 755 8221 0420 Fax : +86 755 8221 3363
Tested by	 <div style="text-align: right;">2014-10-31</div> <hr/> <div style="display: flex; justify-content: space-between;"> Zone Peng date </div>
Verified by	 <div style="text-align: right;">2014-11-05</div> <hr/> <div style="display: flex; justify-content: space-between;"> Daria Liu date </div>

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1. Client Information

1.1 Applicant

Company Name: BINATONE ELECTRONICS INTERNATIONAL LTD.
Company Address: Flat 23A, 9 Des Voeux Road West, Hong Kong

1.2 Manufacturer


Company Name: Foshan Shunde Alford Electronics Co., Ltd.
Company Address: Xinjiao Industrial Park, DaLiang, ShunDe, Foshan City, Guangdong Province, China

1.3 Scope

•Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission under FCC part 15.247.

2. Equipment under Test (EUT)

2.1 Identification of EUT

Category:	N/A
Name:	Remote Training System
Model Name:	TRAVELFENCE50ZU
Alternate model:	WIRELESSFENCE25ZU
Brand name:	 motorola
Remark:	The two models are electrical identical.

2.2 Detail spec:

Operation Frequency: **2441MHz**

Type of Modulation : **CSS**

Antenna Type: **Integral Antenna**

Antenna Number : **1**

Antenna gain: **0dBi**

Channel number: **1**

Max PK Output power: **22.23dBm**

2.3 Additional Information Related to Testing

CH 2441 MHz

Remark: Only the worse case found by prescan is listed

3. General Test Conditions

3.1 Location

Global United Technology Services Co., Ltd. -- Nemko ELA 632

2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China

FCC Registration No.:600491

IC Registration No.9079A-1

Note: all test are witnessed by NEMKO engineer

3.2 Operating Environment

All tests and measurements were performed in a shielded enclosure or a controlled environment suitable for the tests conducted. The climatic conditions in the test area are automatically controlled and recorded continuously.

Parameters	Recording during test	Accepted deviation
Ambient temperature	24-25°C	15 – 35 °C
Relative humidity	50-55%RH	30 - 60%RH
Atmospheric pressure	101.2 kPa -101.3kPa	86-106kPa

3.3 Operating During Test

Test mode

TM1 : 120VAC 60Hz Charging & TX Mode continuous transmitting

Remark : Input voltage have been adjusted from 85% to 115% ,no influence of Fundamental emission found .

3.4 Test Equipment

The test equipments used in testing are calibrated on a regular basis. For most of the testing equipments accredited calibration is conducted once a year. For certain equipment the calibration interval is longer. Between the calibrations all test equipment are controlled and verified on a regular basis. The test equipments used are defined in each test section of this report.

4. Measurement Uncertainty

The Measurement Uncertainties stated were calculated in accordance with the requirements of NIST Technical Note 1297 with the confidence level of 95 %.

Conducted Emission :	0.15~30MHz	3.45dB
Radiated Emission:	30MHz~1000MHz	4.50dB
	1GHz-18GHz	4.70dB

5. Radiated Electromagnetic Disturbances

5.1 Test Procedure

The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. An antenna was located 3m from the EUT on an adjustable mast.

The EUT were rotated 0 to 360 degree and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. The test result are reported as below.

For below 1GHz

RBW=120 kHz; VBW=300KHz.QP detector,The frequency range from 30MHz to 1000MHz is checked.

For above 1GHz. The frequency range from 1GHz to 25GHz(10th harmonics) is checked.

RBW=1MHz ; VBW=1MHz,PK detector for peak emissions measurement above 1GHz

RBW=1MHz ; VBW=3MHz, RMS detector for average emissions measure above 1GHz

5.2 Measurement Equipment

	Equipment	Calibration due	Type	Serial No.	Manufacturer
<input checked="" type="checkbox"/>	EMI Test Receiver	Jul. 04 2015	ESU26	GTS203	R&S
<input checked="" type="checkbox"/>	BiConiLog Antenna	Feb. 26 2015	VULB9163	GTS214	SCHWARZBECK
<input checked="" type="checkbox"/>	Horn Antenna	Feb. 26 2015	BBHA9120D	GTS215	SCHWARZBECK
<input checked="" type="checkbox"/>	Horn Antenna	Feb. 26 2015	BBHA9170	GTS216	SCHWARZBECK
<input checked="" type="checkbox"/>	Coaxial Cable	Apr. 01 2015	N/A	GTS213	GTS
<input checked="" type="checkbox"/>	Coaxial Cable	Apr. 01 2015	N/A	GTS211	GTS
<input checked="" type="checkbox"/>	Coaxial cable	Apr. 01 2015	N/A	GTS210	GTS
<input checked="" type="checkbox"/>	Coaxial Cable	Apr. 01 2015	N/A	GTS212	GTS
<input checked="" type="checkbox"/>	Amplifier	Jul. 04 2015	8347A	GTS204	HP

5.3 Test Result

Remark: If PK value is lower than AV limit , only show PK diagram as below.

From 18GHz to 25GHz, Spurious Emission can not be found .

For restriction band test :Only list the restriction band test which there found emission.

For other restriction band: no emission found.

For Radiated emission test : The EUT have been tested at X,Y,Z axial direction, Only list the worse mode.

Mode	Freq range	Test ANT polarity	Diagram	Test Result
TX MODE	30MHz-1GHz:	H	5-1	Pass
	30MHz-1GHz:	V	5-2	Pass
	1GHz-18GHz:	H	5-3	Pass
	1GHz-18GHz:	V	5-4	Pass

NOTES:

- 1.All modes were measured and only the worst case emission was reported.
2. H =Horizontal V=Vertical
3. Emission = Reading +Antenna Factor + Cable Loss –Amp Factor
4. Emission level dB μ V = 20 log Emission level μ V/m

5. The lower limit shall apply at the transition frequencies
6. All the emissions appearing within 15.205 Restricted bands shall not exceed the limits shown in (15.209 limit) #.
7. Unwanted emissions not falling within restricted frequency bands shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits;

Remark :

The limit of “ # ” of 3 meter distance is

Frequency MHz	Distance m	Field strength		Distance m	Field strength dB μ V/m(QP)
		μ V/m	dB μ V/m(QP)		
30-88	3	100	40.0	10	30.0
88-216	3	150	43.5	10	33.5
216-960	3	200	46.0	10	36.0
960-1000	3	500	54.0	10	44.0
Above 1000	3	74.0 dB μ V/m (PK) 54.0 dB μ V/m (AV)		/	/

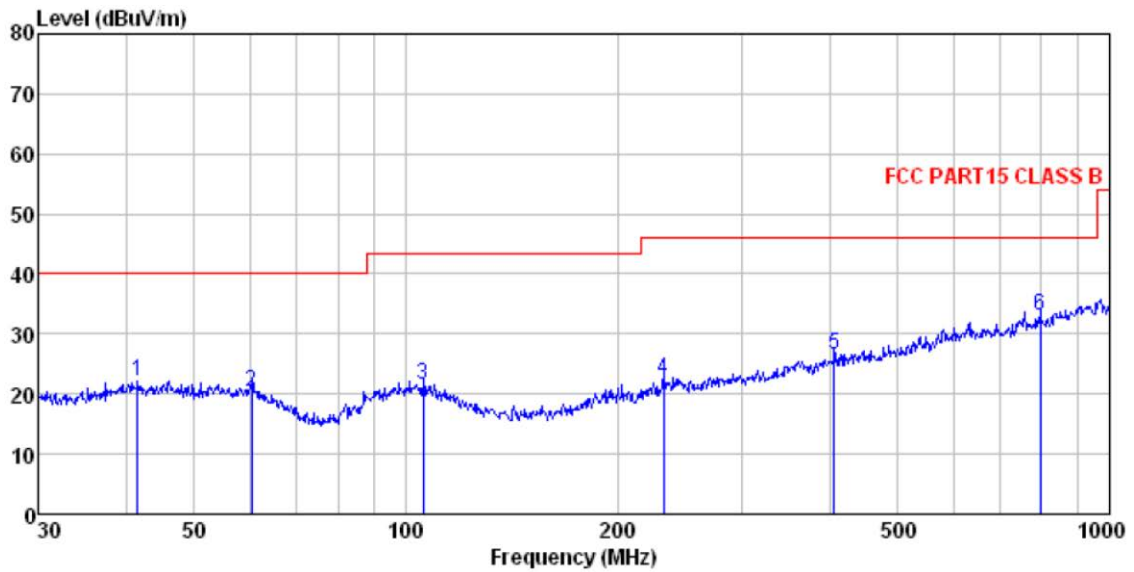
15.205 Restricted bands:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1690-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41.			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

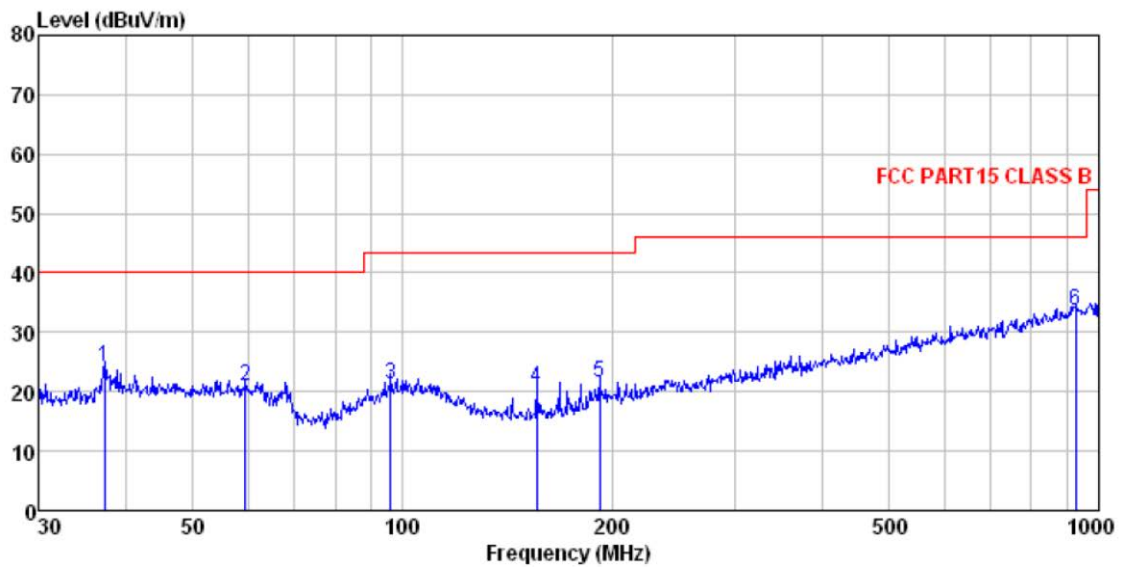
²Above 38.6

5.3.1 Diagram 5-1



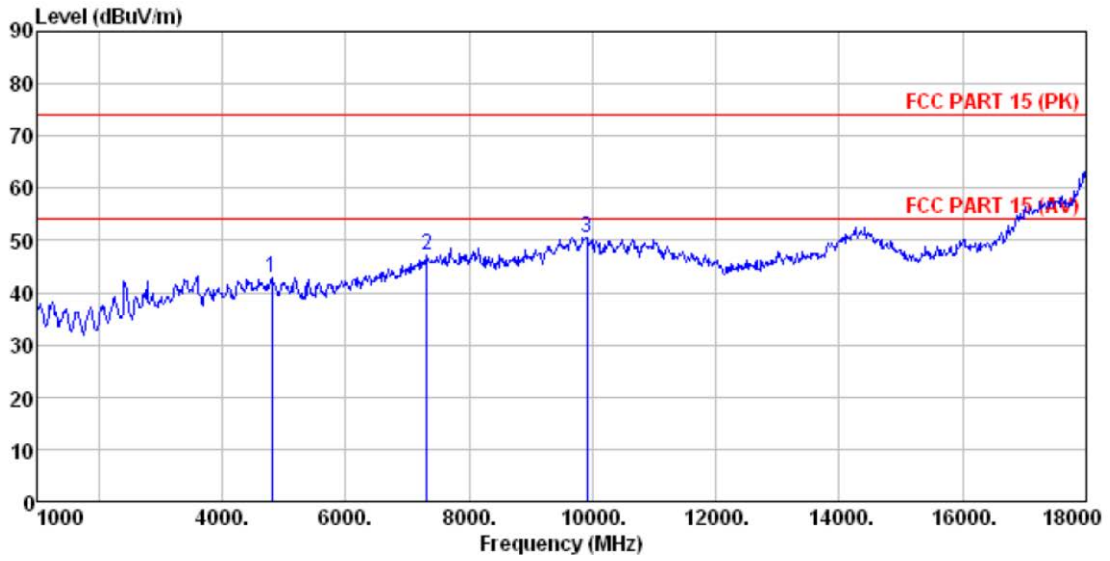
	Read	Antenna	Cable	Preamp	Limit	Over			
-----	Freq	Level	Factor	Loss	Factor	Level	Line		
-----	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m		
1	41.567	37.89	15.57	0.68	32.04	22.10	40.00	-17.90	QP
2	60.280	36.77	14.69	0.86	31.94	20.38	40.00	-19.62	QP
3	105.642	37.48	14.63	1.24	31.79	21.56	43.50	-21.94	QP
4	232.532	38.74	13.72	2.03	32.16	22.33	46.00	-23.67	QP
5	406.088	38.40	17.18	2.88	31.87	26.59	46.00	-19.41	QP
6	796.183	37.94	22.01	4.45	31.31	33.09	46.00	-12.91	QP

5.3.2 Diagram 5-2

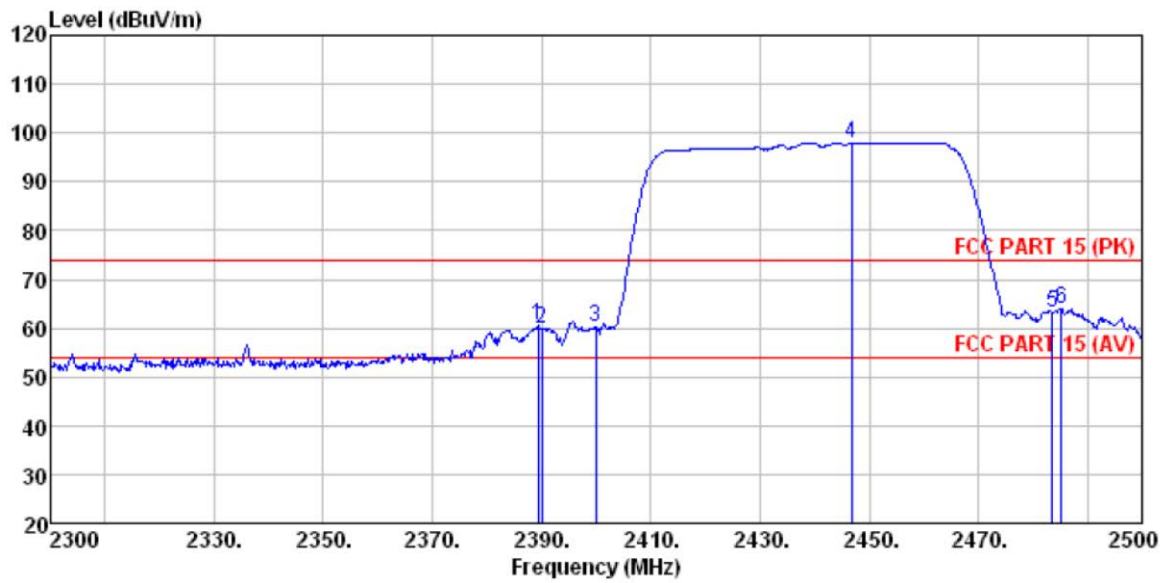


	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	Remark
	MHz	Level	Factor	Loss	Factor	Line	Limit	
		dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	37.285	40.64	14.92	0.63	32.06	24.13	40.00	-15.87 QP
2	59.441	37.38	14.73	0.86	31.94	21.03	40.00	-18.97 QP
3	96.099	36.85	14.90	1.16	31.75	21.16	43.50	-22.34 QP
4	155.910	40.69	12.56	1.60	32.00	20.80	43.50	-22.70 QP
5	191.745	39.40	12.56	1.80	32.12	21.64	43.50	-21.86 QP
6	925.756	36.64	23.28	4.95	31.20	33.67	46.00	-12.33 QP

5.3.3 Diagram 5-3



	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Loss	Factor	Line	Limit	Remark			
-----	-----	-----	-----	-----	-----	-----			
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m			
1	4808.000	34.59	31.78	8.60	32.09	42.88	74.00	-31.12	Peak
2	7324.000	30.83	36.37	11.72	31.89	47.03	74.00	-26.97	Peak
3	9908.000	29.25	38.81	14.35	31.85	50.56	74.00	-23.44	Peak

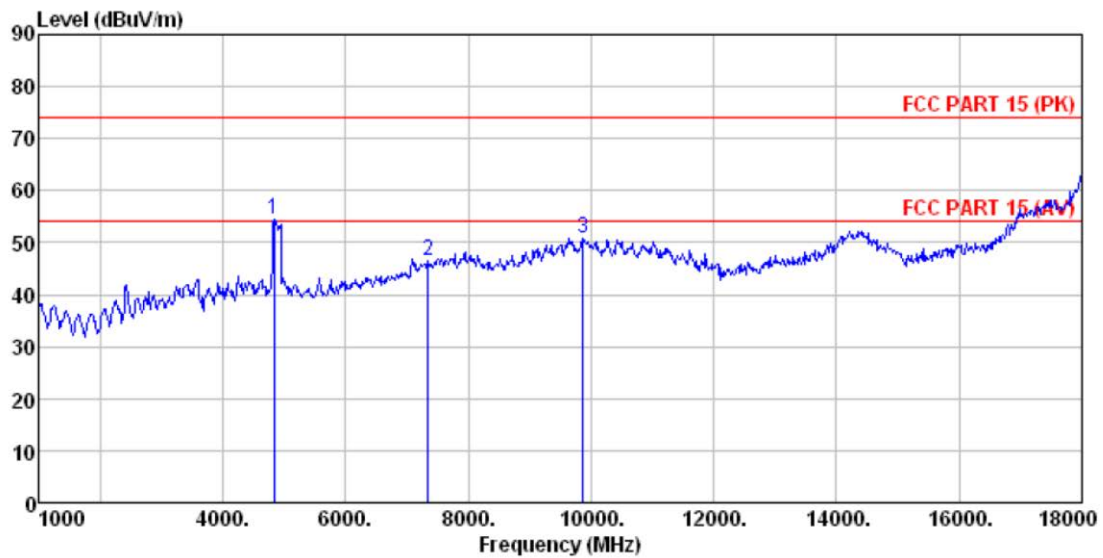


	ReadAntenna	Cable Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2389.400	57.63	27.59	5.38	30.18	60.42	74.00	-13.58 Peak
2	2390.000	57.03	27.59	5.38	30.18	59.82	74.00	-14.18 Peak
3	2400.000	57.59	27.58	5.39	30.18	60.38	74.00	-13.62 Peak
4 *	2446.800	95.14	27.46	5.44	30.06	97.98		Peak
5	2483.500	60.11	27.53	5.47	29.93	63.18	74.00	-10.82 Peak
6	2485.200	60.81	27.53	5.47	29.93	63.88	74.00	-10.12 Peak

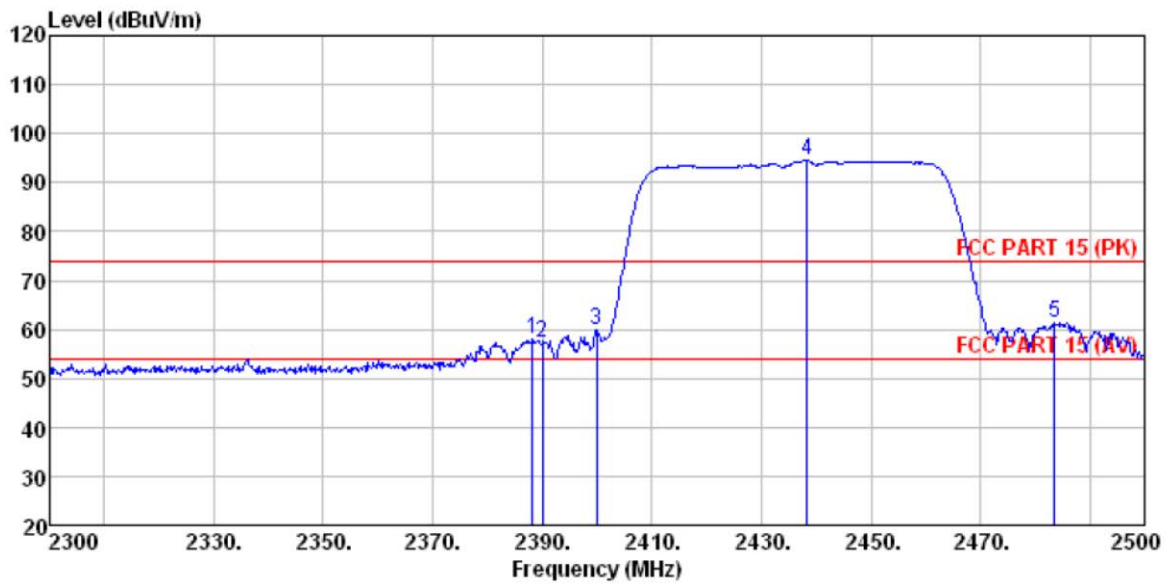


	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Loss	Factor	Line	Limit	Remark			
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2389.400	45.85	27.59	5.38	30.18	48.64	54.00	-5.36	Average
2	2390.000	45.00	27.59	5.38	30.18	47.79	54.00	-6.21	Average
3 *	2446.400	84.55	27.46	5.44	30.06	87.39	54.00		Average
4	2483.500	48.16	27.53	5.47	29.93	51.23	54.00	-2.77	Average
5	2484.600	48.71	27.53	5.47	29.93	51.78	54.00	-2.22	Average

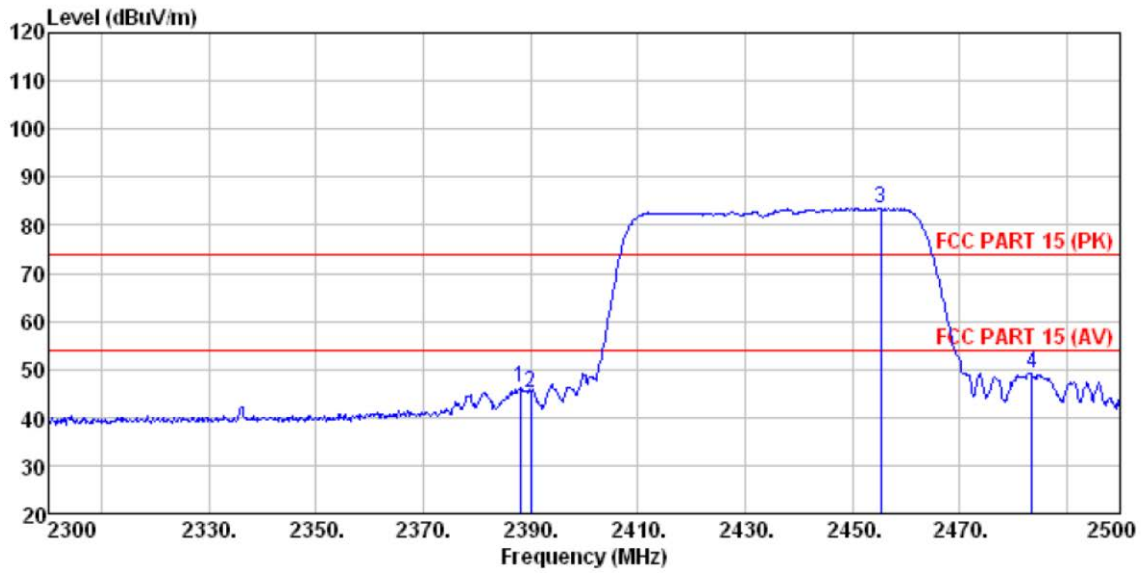
5.3.4 Diagram 5-4



	Freq MHz	Read Level dBuV	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Remark
1	4842.000	46.02	31.82	8.63	32.11	54.36	74.00	-19.64	Peak
1	4842.000	21.98	31.82	8.63	32.11	30.32	54.00	-23.68	Average
2	7341.000	30.23	36.41	11.74	31.88	46.50	74.00	-27.50	Peak
3	9874.000	29.57	38.72	14.33	31.80	50.82	74.00	-23.18	Peak



	Freq	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2388.200	55.23	27.61	5.38	30.18	58.04	74.00	-15.96	Peak
2	2390.000	54.48	27.59	5.38	30.18	57.27	74.00	-16.73	Peak
3	2400.000	57.19	27.58	5.39	30.18	59.98	74.00	-14.02	Peak
4 *	2438.400	91.59	27.50	5.43	30.06	94.46	74.00		Peak
5	2483.500	58.18	27.53	5.47	29.93	61.25	74.00	-12.75	Peak



	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2388.000	43.38	27.61	5.38	30.18	46.19	54.00	-7.81	Average
2	2390.000	42.40	27.59	5.38	30.18	45.19	54.00	-8.81	Average
3 *	2455.400	80.50	27.47	5.45	29.99	83.43	54.00	-4.97	Average
4	2483.500	45.96	27.53	5.47	29.93	49.03	54.00	-4.97	Average

6. 6dB Bandwidth test

6.1 Test Procedure

6dB Bandwidth:

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.

The transmitter output was connected to a spectrum analyzer. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 KHz RBW and 300 KHz VBW. The 6dB bandwidth is defined as the total spectrum with the power of which is lower than peak power for 6dB.

1. Set resolution bandwidth (RBW) = 100 kHz.
2. Set the video bandwidth (VBW) = 3 x RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.2 Measurement Equipment

	Equipment	Calibration due	Type	Serial No.	Manufacturer
<input checked="" type="checkbox"/>	Spectrum	Jul. 04 2015	FSP30	GTS208	RS

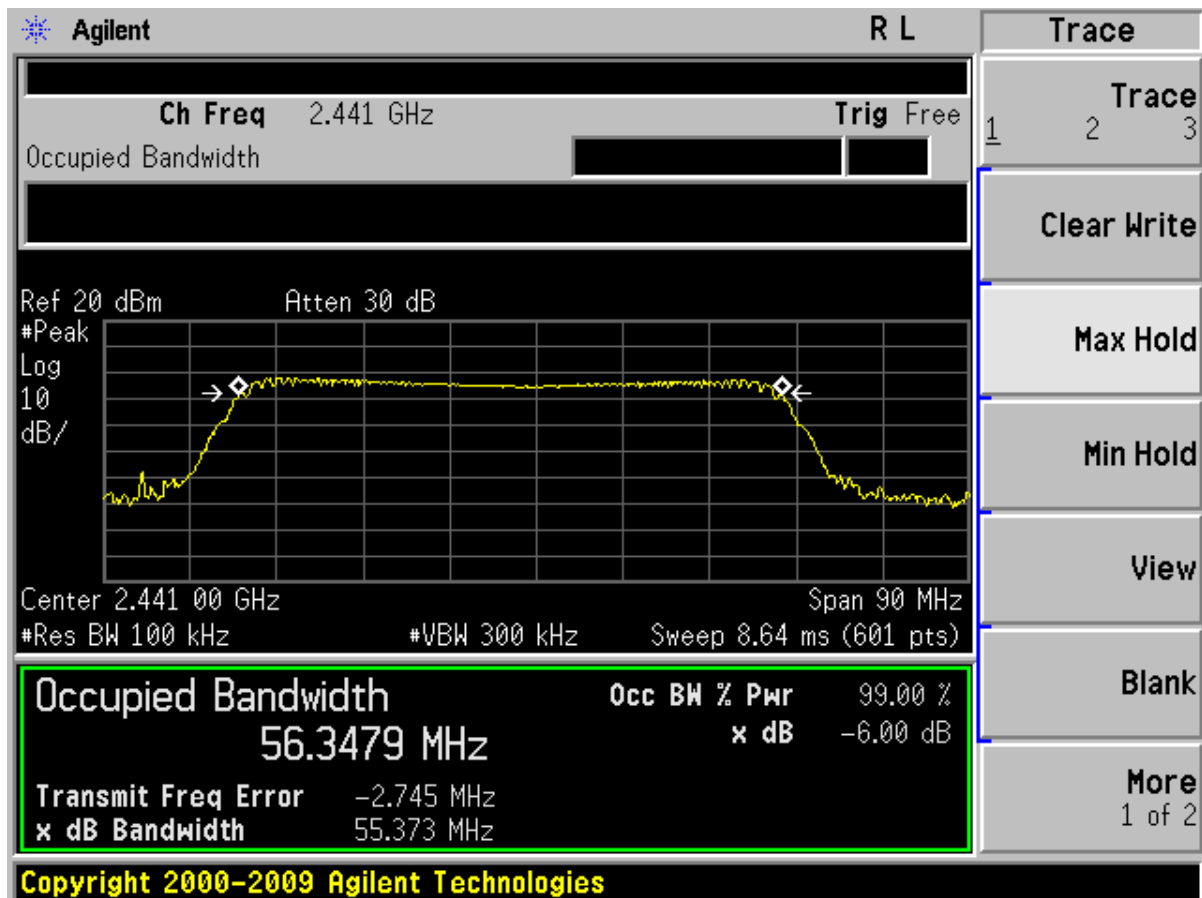
6.3 Test Result

Remark : Conducted measurement.

6dB Bandwidth:

Diagram	6dB bandwidth (MHz)	99% bandwidth (MHz)	>Limit kHz	Result
6-1	55.373	56.3479	500	PASS

6.3.1 Diagram 6-1



7. Band Edge Compliance Test

7.1 Test Procedure

In any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

7.2 Measurement Equipment

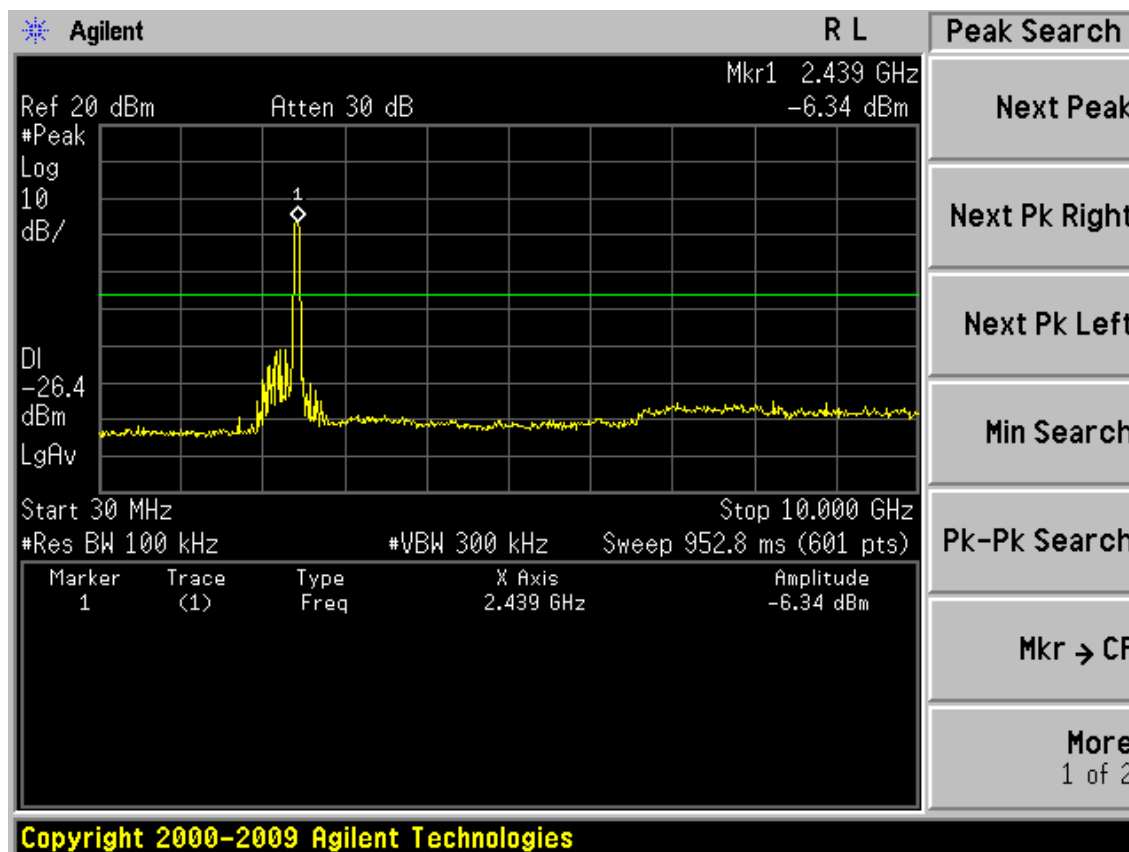
	Equipment	Calibration due	Type	Serial No.	Manufacturer
<input checked="" type="checkbox"/>	Spectrum	Jul. 04 2015	FSP30	GTS208	RS

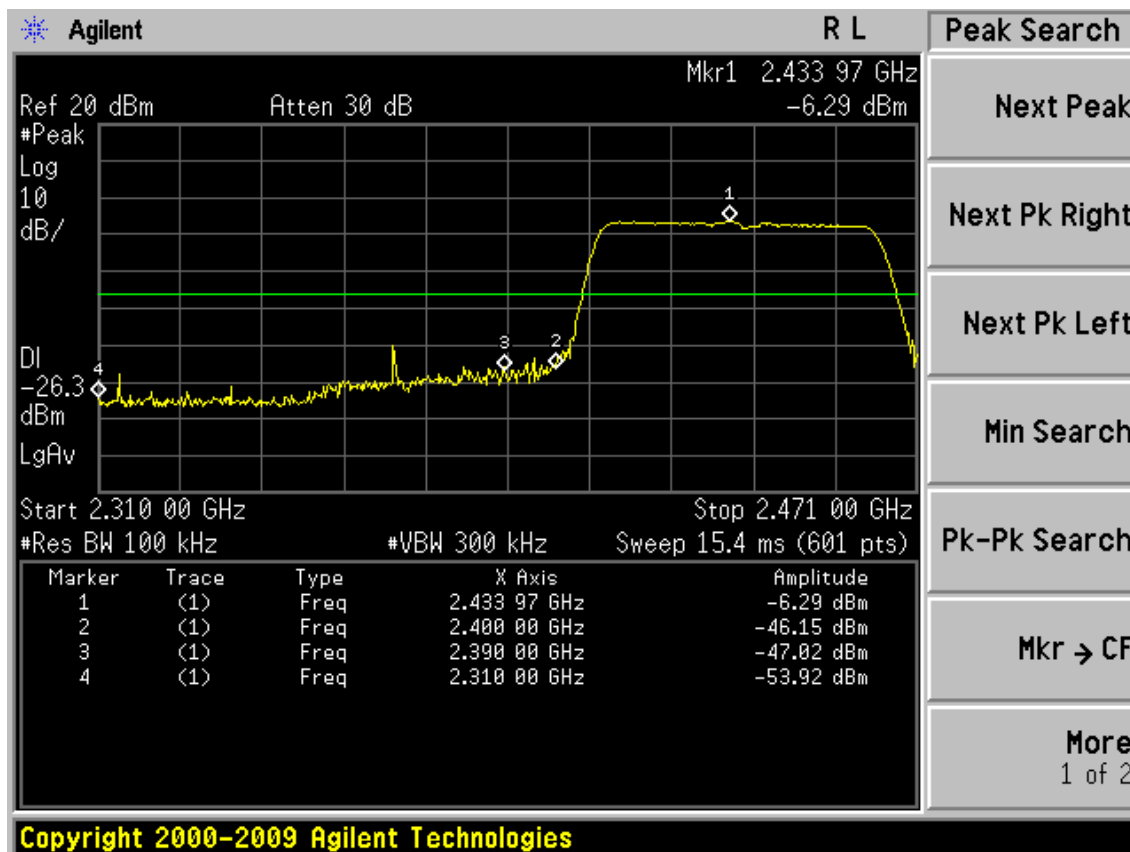
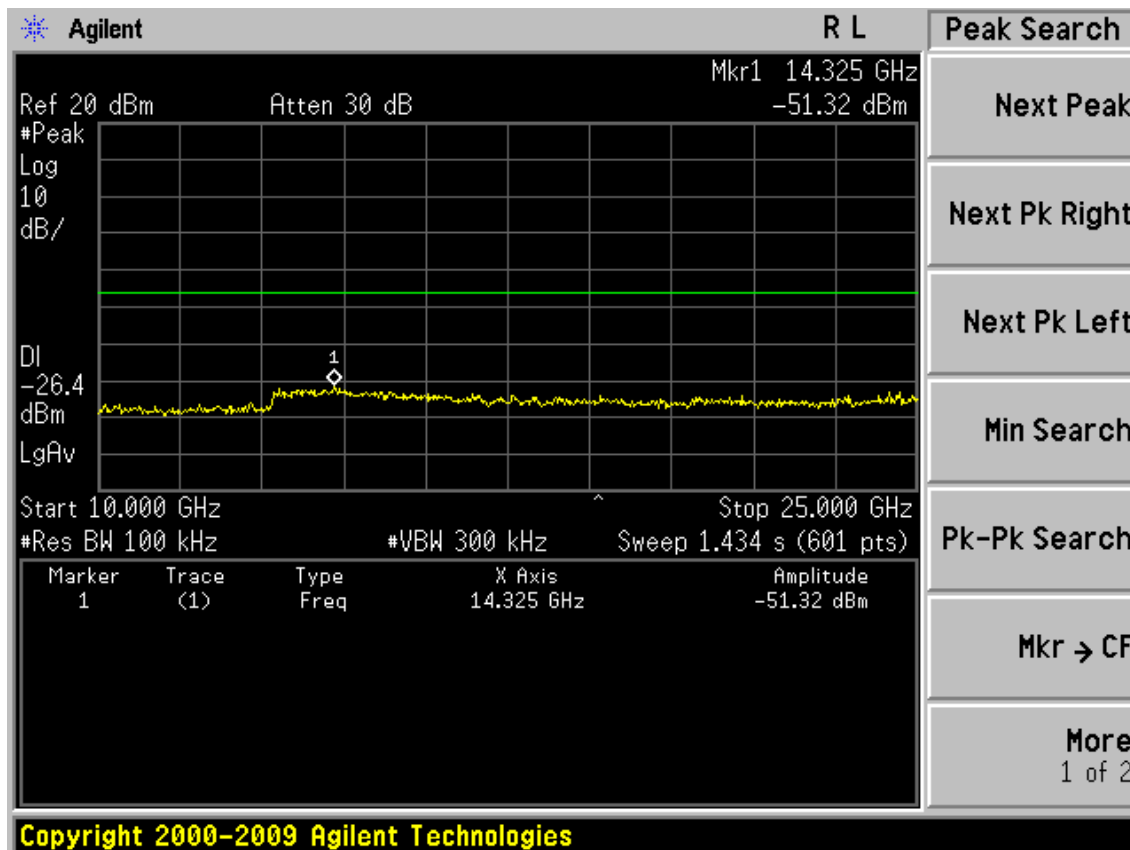
7.3 Test Result

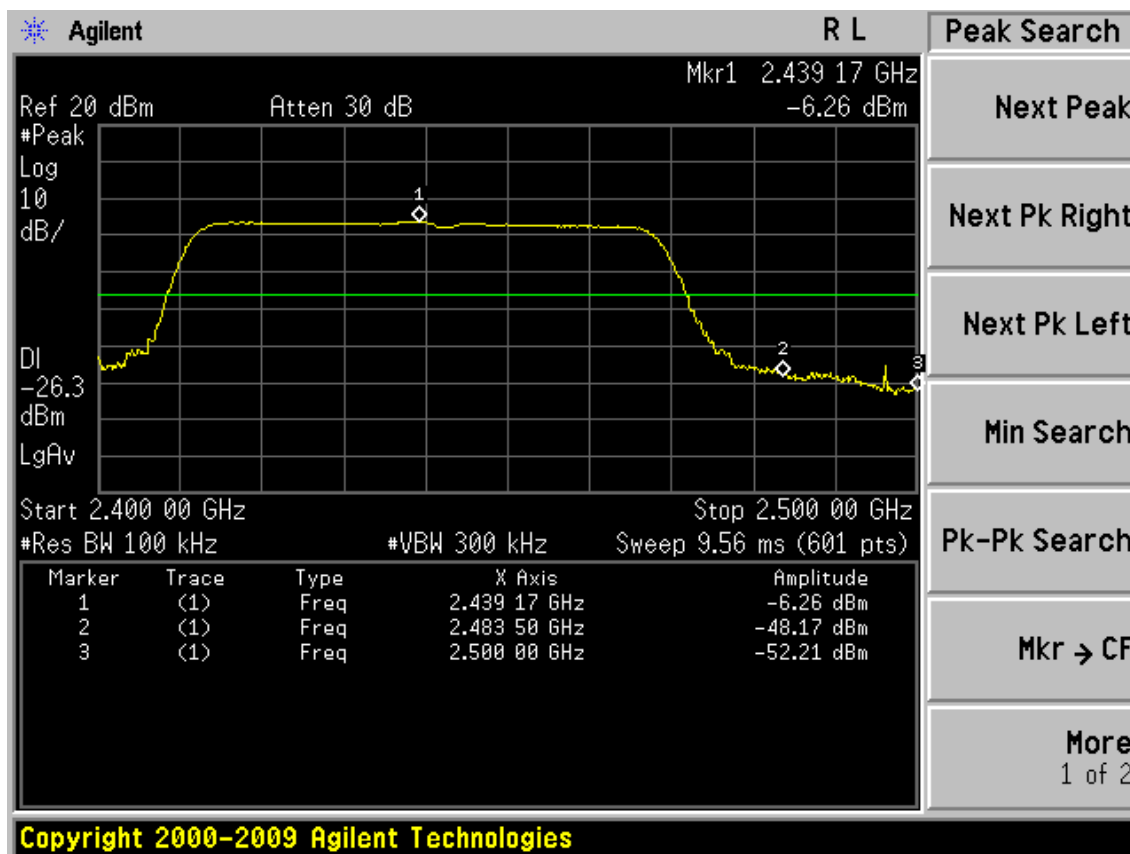
Conducted measurement
PK detector
Max hold
RMB100kHz VBW 300kHz

Channel	Test Data	Test Result
2441MHz	Diagram 7-1	Pass

7.3.1 Diagram 7-1







8. Power Spectral Density Test

8.1 Test Procedure

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

The transmitter output was connected to a spectrum analyzer. The maximum power density level was measured by spectrum analyzer with RBW >3kHz and Detector: PK
Cable loss and attenuator loss have been added in Spectrum setting offset .

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW >=3 kHz.
4. Set the VBW >= 3 x RBW.
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.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

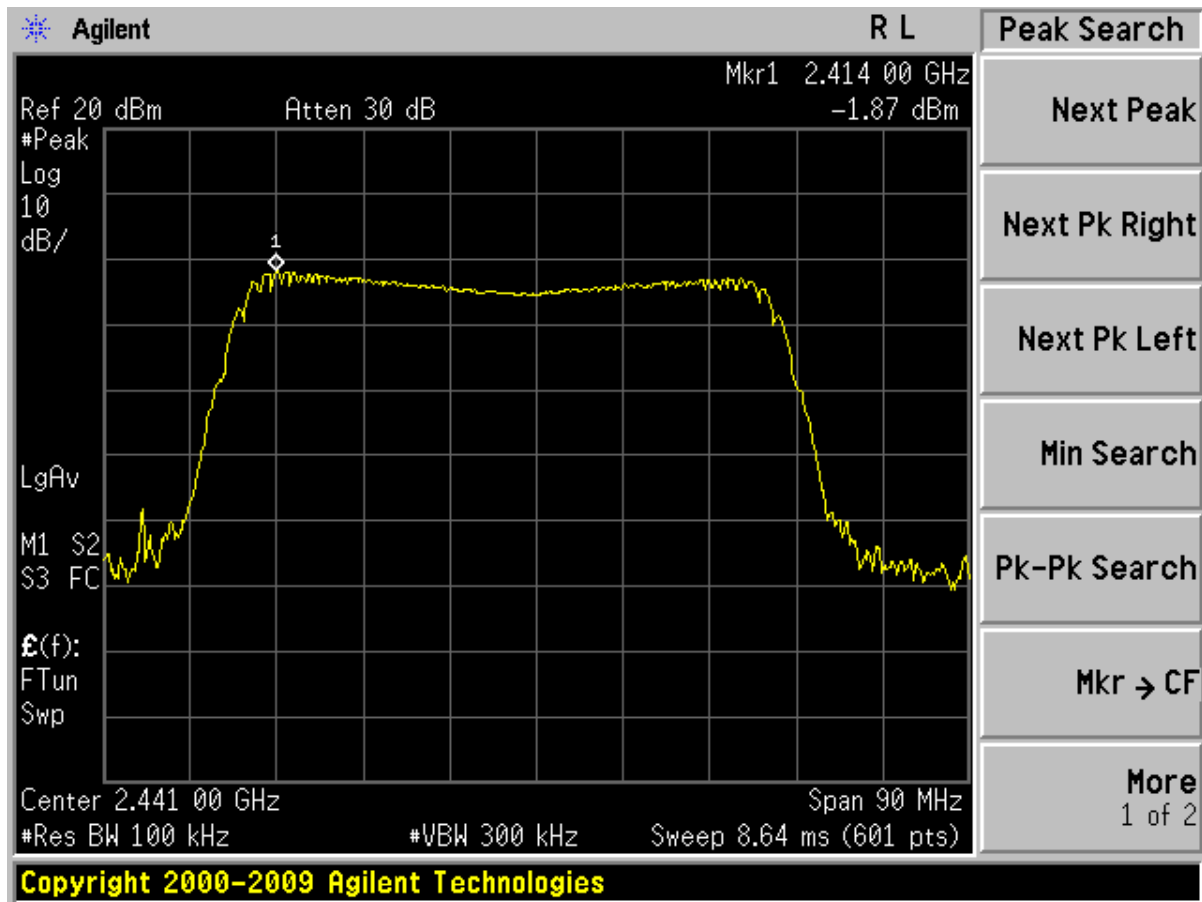
8.2 Measurement Equipment

	Equipment	Calibration due	Type	Serial No.	Manufacturer
<input checked="" type="checkbox"/>	Spectrum	Jul. 04 2015	FSP30	GTS208	RS

8.3 Test Result

Channel	Diagram	Result (dBm)	<Limit (dBm)	Result
2441MHz	8-1	-1.87	8	Pass

8.3.1 Diagram 8-1



9. Peak Output Power Test

9.1 Test Procedure

For systems using digital modulation in the 2400—2483.5MHz, The Peak out put power shall not exceed 1W(30dBm)

The transmitter output was connected to a PK power meter ,Cable loss have been added in power meter setting offset .

9.2 Measurement Equipment

	Equipment	Calibration due	Type	Serial No.	Manufacturer
<input checked="" type="checkbox"/>	Power Meter	July 01 2015	ML2495A	GTS540	Anritsu
<input checked="" type="checkbox"/>	Power Sensor	July 01 2015	MA2411B	GTS541	Anritsu

9.3 Test Result

PEAK Output power : PASS

CH	Peak output Power (dBm)	AV output Power (dBm)	Limit (dBm)
2441MHz	22.23	14.69	30

10 POWER LINE CONDUCTED EMISSION TEST

10.1 Test Procedure

An intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15–0.5	66 to 56*	56 to 46*
0.5–5	56	46
5–30	60	50

*-Decreases with the logarithm of the frequency.

10.2 Measurement Equipment

	Equipment	Calibration due	Type	Serial No.	Manufacturer
<input checked="" type="checkbox"/>	Shielding Room	Jul. 04 2015	7.0(L)x3.0(W)x3.0(H)	GTS252	ZhongYu Electron
<input checked="" type="checkbox"/>	EMI Test Receiver	Jul. 04 2015	ESCS30	1102.4500K30	Rohde & Schwarz
<input checked="" type="checkbox"/>	10dB Pulse Limita	Jul. 04 2015	N/A	GTS224	Rohde & Schwarz
<input checked="" type="checkbox"/>	LISN	Jul. 04 2015	NSLK 8127	8127549	SCHWARZBECK MESS-ELEKTRONIK
<input checked="" type="checkbox"/>	Coaxial Cable	Apr. 01 2015	N/A	N/A	GTS

10.3 Test Result

The EUT was placed on a non-metallic table, 80cm above the ground plane. The other peripheral devices power cord connected to the power mains through another line impedance stabilization network. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4-2003 on conducted Emission test.

Preview measurements:

0.15 MHz to 30 MHz

Receiver settings: PK&AV detector

RBW:9 kHz

Final measurement:

0.15 MHz to 30 MHz

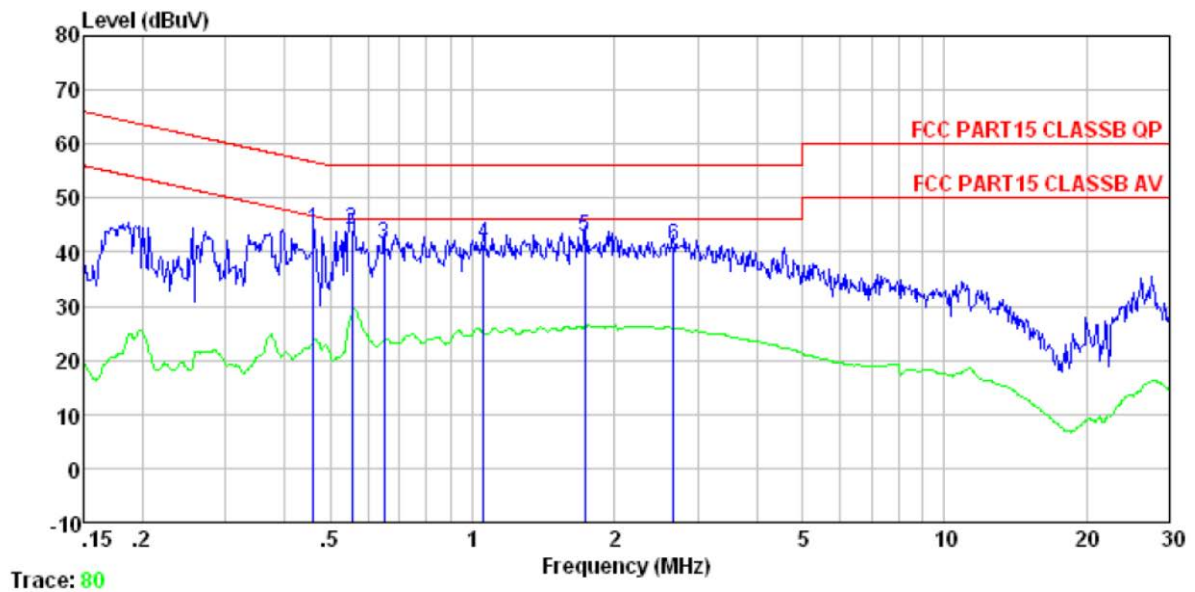
Receiver settings:QP&AV detector

Test mode	Power Line	Test Data	Test Result
TM1	Line	Diagram 10-1	Pass
	Neutral	Diagram 10-2	Pass

NOTES:

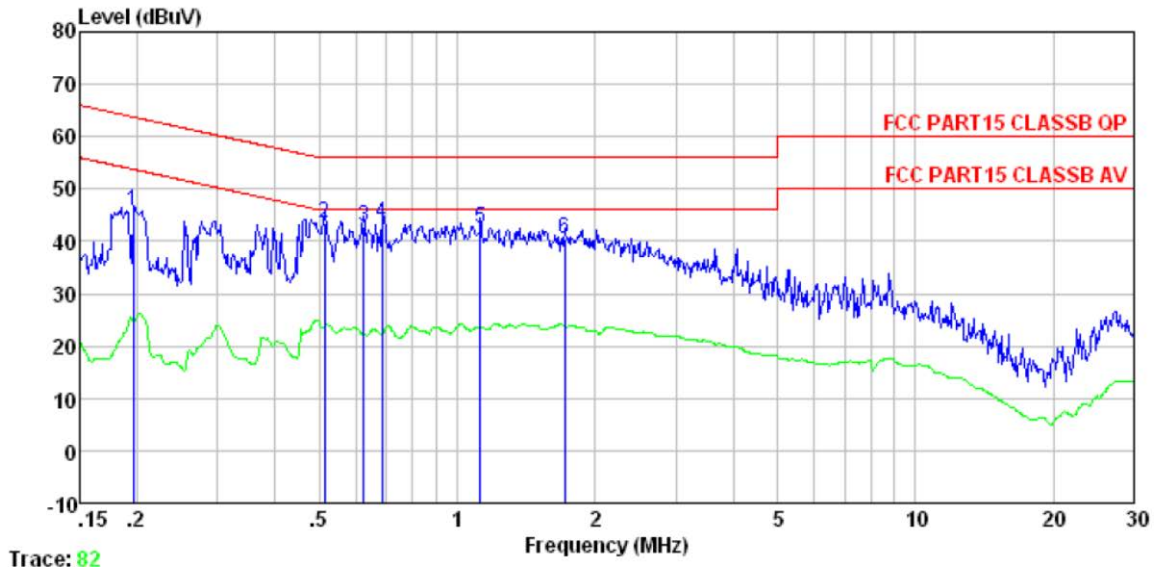
1. Measurements using CISPR quasi-peak mode & average mode.
2. All modes of operation were investigated and the worst -case emission are reported. See attached Plots.
- 3: If PK value is lower than AV limit then QP and AV value are deemed to be complied with rules and only diagram will be shown as below.

10.3.1 Diagram 10-1



	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.461	43.94	0.12	0.11	44.17	56.67	-12.50	QP
2	0.555	44.00	0.13	0.11	44.24	56.00	-11.76	QP
3	0.651	41.15	0.13	0.13	41.41	56.00	-14.59	QP
4	1.054	41.28	0.14	0.13	41.55	56.00	-14.45	QP
5	1.734	42.50	0.12	0.14	42.76	56.00	-13.24	QP
6	2.664	40.94	0.14	0.15	41.23	56.00	-14.77	QP

10.3.2 Diagram 10-2



	Read Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.197	45.63	0.07	0.13	45.83	63.76	-17.93	QP
2	0.513	43.40	0.06	0.11	43.57	56.00	-12.43	QP
3	0.624	42.49	0.07	0.12	42.68	56.00	-13.32	QP
4	0.686	43.24	0.07	0.13	43.44	56.00	-12.56	QP
5	1.123	42.25	0.08	0.13	42.46	56.00	-13.54	QP
6	1.716	40.26	0.09	0.14	40.49	56.00	-15.51	QP

11. Antenna requirement

11.1 Requirement

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247 (b), if 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 6dBi.

11.2 Result

The antenna used for this product is Internal Patch antenna that no antenna other than that furnished by the responsible party shall be used with the device, The maximum peak gain of this antenna is 0dBi.

END OF REPORT