



FCC ID:2AF3K-SPB1

AUDIX Technology (Shenzhen) Co., Ltd.

FCC PART 15C TEST REPORT FOR CERTIFICATION

On Behalf of

Square Inc.

Cash Register

SPB1-01

FCC ID: 2AF3K-SPB1

Prepared for : Square Inc.

1455 Market St. Suite 600 San Francisco, California United
States 94103

Prepared By : Audix Technology (Shenzhen) Co., Ltd.

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Report Number : ACS-F17138
Date of Test : Jul.07~11, 2017
Date of Report : Jul.11, 2017

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TEST REPORT CERTIFICATION

Applicant : Square Inc.
Manufacture : Square Inc.
Product : Cash Register
FCC ID : 2AF3K-SPB1
(A) Model No. : SPB1-01
(B) Serial No. : N/A
(C) Test Voltage : AC 120V/60Hz

Tested for comply with:

FCC CFR 47 Part 15 Subpart C
Test procedure used: ANSI C63.10: 2013;

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC Part 15 Subpart C requirements. The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements. This report contains data that are not covered by the NVLAP accreditation.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Jul.07~11, 2017 Report of date: Jul.11, 2017

Prepared by : Monica Liu Reviewed by : Sunny Lu
Monica Liu / Assistant Sunny Lu / Deputy Manager



Approved & Authorized Signer :

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT has been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Power Line Conducted Emission Test	FCC Part 15: 15.207 ANSI C63.10 :2013	PASS
Radiated Emission Test	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.10 : 2013	PASS
Conducted Spurious Emissions	FCC Part 15: 15.247(a)(1) ANSI C63.10 : 2013	PASS
Carrier Frequency Separation Test	FCC Part 15: 15.247(a)(1) ANSI C63.10 : 2013	PASS
6dB Bandwidth Test	FCC Part 15: 15.215 ANSI C63.10 : 2013	PASS
Maximum Peak Output Power Test	FCC Part 15: 15.247(b)(1) ANSI C63.10 : 2013	PASS
Band Edge Compliance Test	FCC Part 15: 15.247(d) ANSI C63.10 : 2013	PASS
Power Spectral Density Test	FCC Part 15: 15.247(d) ANSI C63.10 : 2013	PASS

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Product : Cash Register

Square Register : SPB1-01
Model No.

Customer :
Display Model SPB4-01
No.

FCC ID : 2AF3K-SPB1

Radio : IEEE802.11 a/b/g/n/ac; Bluetooth V3.0+EDR; Bluetooth V4.0; NFC

Operation : IEEE 802.11a:
Frequency 5180MHz—5240MHz; 5260MHz—5320MHz
5500MHz—5700MHz; 5745MHz—5825MHz
IEEE 802.11ac VHT20:
5180MHz—5240MHz; 5260MHz—5320MHz
5500MHz—5700MHz; 5745MHz—5825MHz
IEEE 802.11ac VHT40:
5190MHz—5230MHz; 5270MHz—5310MHz
5510MHz—5670MHz; 5755MHz—5795MHz
IEEE 802.11ac VHT80: 5210MHz, 5290MHz; 5530MHz—5690MHz;
5775MHz
IEEE 802.11b: 2412MHz—2462MHz
IEEE 802.11g: 2412MHz—2462MHz
IEEE802.11nHT20: 2412MHz—2462MHz;
5180MHz—5240MHz; 5260MHz—5320MHz
5500MHz—5700MHz; 5745MHz—5825MHz
IEEE802.11nHT40: 2422MHz—2452MHz;
5190MHz—5230MHz; 5270MHz—5310MHz
5510MHz—5670MHz; 5755MHz—5795MHz
Bluetooth : 2402-2480MHz
NFC: 13.56MHz

Modulation Technology : IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK)
IEEE 802.11a/g: OFDM(64QAM, 16QAM, QPSK, BPSK)
IEEE 802.11ac VHT20, VHT40, VHT80: OFDM(16QAM, 64QAM,
256QAM, QPSK, BPSK)
IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM,QPSK,BPSK)
Bluetooth V3.0+EDR: GFSK, $\pi/4$ DQPSK,8-DPSK
Bluetooth V4.0:GFSK
NFC: ASK

Antenna : Antenna Type: PIFA
Bluetooth: 2.77dBi
WIFI 2.4GHz:ANT 0: -1.95dBi; ANT 1: 2.77dBi
WIFI 5GHz:
Antenna Assembly Gain
Band 1: ANT 0: -2.39dBi; ANT 1: 6.13dBi
Band 2: ANT 0: -1.76dBi; ANT 1: 6.74dBi
Band 3: ANT 0: 1.42dBi; ANT 1: 6.92dBi
Band 4: ANT 0: 0.55dBi; ANT 1: 6.98dBi

Applicant : Square Inc.
1455 Market St. Suite 600 San Francisco, California United States 94103

Manufacturer : Square Inc.
1455 Market St. Suite 600 San Francisco, California United States 94103

Factory : Fu Tai Hua Industry (ShenZhen) Co., Ltd.
4/F, Building 3, K1 Area, No. 2, 2nd Donghuan Road, Longhua District,
Shenzhen, Guangdong Province, P.R. China

Power Adapter : Manufacturer: Square, Inc., M/N: SWB2-01;
Cable: Unshielded, Detachable, 1.2m

Accessory Hub : Manufacturer: Square, Inc., M/N: SHB3-01;
Cable: Unshielded, Detachable, 1.25m

Micro USB Cable : Shielded, Detachable, 1.0m

Power Cable : Unshielded, Detachable, 1.3m

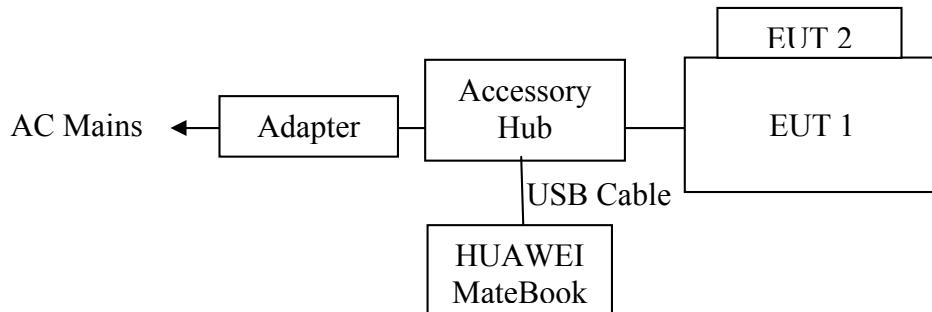
Date of Test : Jul.07~11, 2017

Date of Receipt : Jun.24, 2017

2.2. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number
1.	HUAWEI MateBook	---	HUAWEI	G2-MLB	---

2.3. Block Diagram of connection between EUT and simulators



EUT 1: Square Register
EUT 2: Customer Display

(EUT: Cash Register)

2.4. Test information

A Special Test Software was used to control EUT work in Continuous TX mode (GFSK modulation), and select test channel.

Tested mode, channel, and data rate information			
Mode	data rate (Mbps)	Channel	Frequency (MHz)
Tx Mode GFSK modulation	3	Low :CH 0	2402
	3	Middle: CH19	2440
	3	High: CH39	2480

2.5. Test Facility Site Description

Name of Firm : Audix Technology (Shenzhen) Co., Ltd.
 No. 6, Kefeng Road, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China

EMC Lab. : Certificated by Industry Canada
 Registration Number: IC 5183A-1
 Valid Date: May.07, 2020

EMC Lab. : Certificated by DAkkS, Germany
 Registration No: D-PL-12151-01-00
 Valid Date: Dec.07, 2021

EMC Lab. : Accredited by NVLAP, USA
 NVLAP Code: 200372-0
 Valid Date: Mar.31, 2018

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

Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.6dB (150KHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	2.8dB (30~200MHz, Polarization: H)
	2.8dB (30~200MHz, Polarization: V)
	3.0dB (200M~1GHz, Polarization: H)
	3.0dB (200M~1GHz, Polarization: V)
Uncertainty for Radiation Emission test in 3m chamber	5.8dB (1~6GHz, Distance: 3m)
	5.8dB (6~18GHz, Distance: 3m)
	5.8dB (Above 18GHz, Distance: 3m)
Uncertainty for Radiated Spurious Emission test in RF chamber	3.6dB
Uncertainty for Conduction Spurious emission test	2.0dB
Uncertainty for Output power test	0.8dB
Uncertainty for Bandwidth test	83 kHz
Uncertainty for DC power test	0.1 %
Uncertainty for test site temperature and humidity	0.6°C
	3%

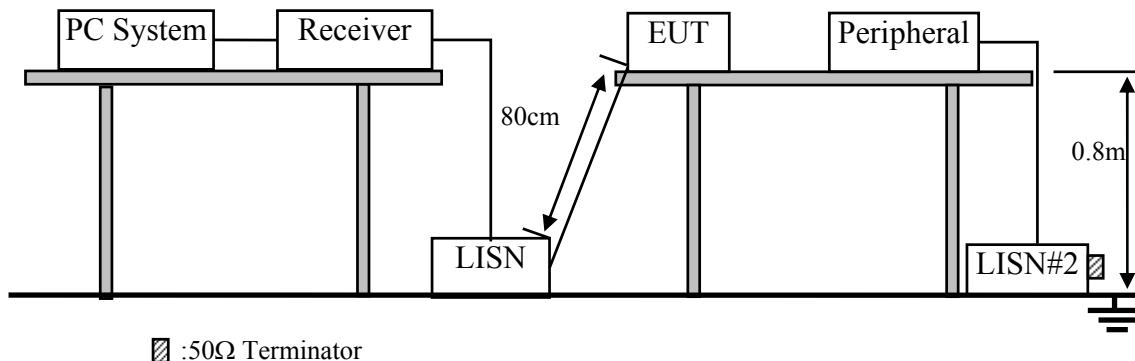
3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	1# Shielding Room	AUDIX	N/A	N/A	Apr.17,17	1 Year
2.	Test Receiver	Rohde & Schwarz	ESCI	100842	Apr.22,17	1 Year
3.	L.I.S.N.	Rohde & Schwarz	ENV216	102160	Mar.06.17	1 Year
4.	L.I.S.N.#2	Kyoritsu	K NW-403D	8-1750-2	Apr.22,17	1 Year
5.	I.S.N.	TESEQ	S751	24559	Mar.06.17	1 year
6.	Terminator	Hubersuhner	50Ω	No.1	Apr.23,17	1 Year
7.	Terminator	Hubersuhner	50Ω	No.2	Apr.23,17	1 Year
8.	RF Cable	Fujikura	RG55/U	NO.2	Apr.22,17	1 Year
9.	Coaxial Switch	Anritsu	MP59B	6201397223	Apr.22,17	1 Year
10.	Test Software	AUDIX	e3	6.100913a	N/A	N/A

Note: N/A means Not applicable.

3.2. Block Diagram of Test Setup



3.3. Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(µV)	Average Level dB(µV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1. Cash Register (EUT)

Model Number : SPB1-01

Serial Number : N/A

3.4.2. Support Equipment: As Tested Supporting System Details, in Section 2.2.

3.5. Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown as Section 3.2.

3.5.2. Turn on the power of all equipments.

3.5.3. PC run test software to control EUT work in Tx mode.

3.6. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via PC connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESCI) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

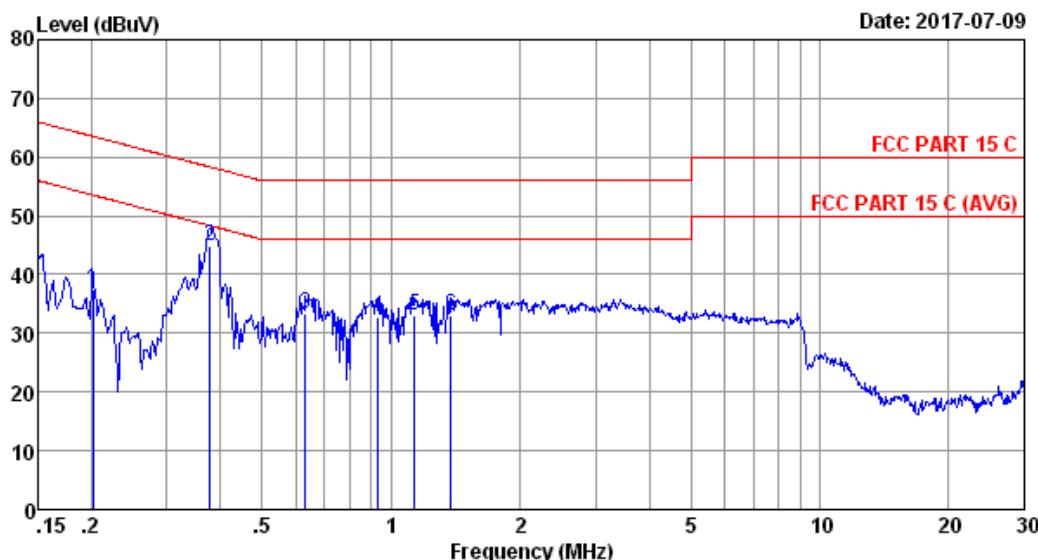
3.7. Power Line Conducted Emission Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)

Data: 4

File: E:\1#CE\2017 Report Data\F\Foxcon\ACS16Q0633-FCC.EM6 (14)

Date: 2017-07-09



Site no : 1# CE Data No : 4
 Dis./Lisn : 2017 LISN ENV216-L LISN phase:
 Limit : FCC PART 15 C
 Env./Ins. : 22.5°C/53% Engineer : Garry
 EUT : Cash Register M/N:SPB1-01
 Power Rating : AC 120V/60Hz
 Test Mode : BT4.0 TX

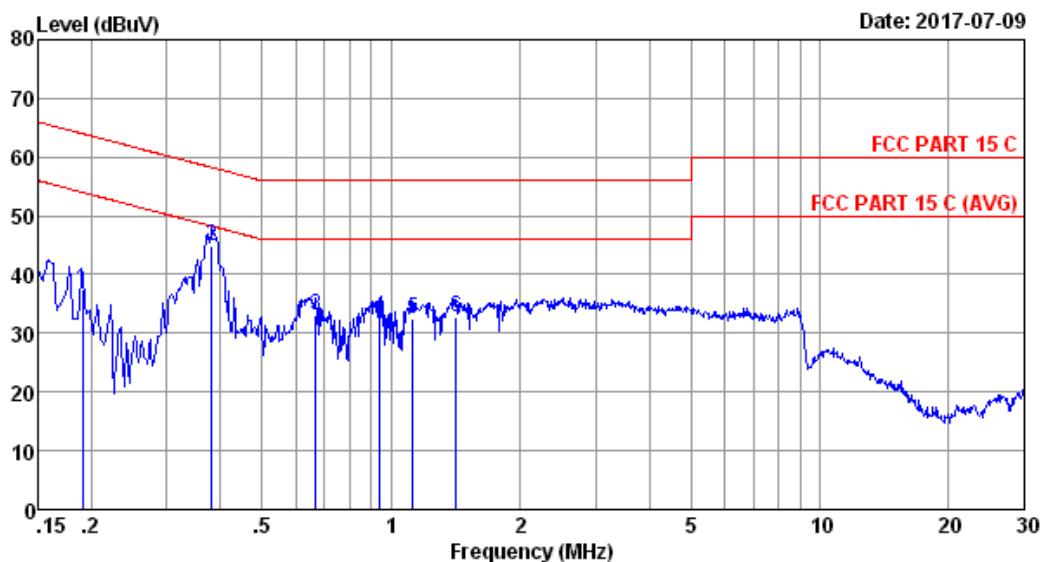
No	Freq (MHz)	LISN		Cable		Emission			Remark
		Factor (dB)	Loss (dB)	Reading (dBuV)	Level (dBuV)	Limits (dBuV)	Margin (dB)		
1	0.202	9.49	0.02	28.05	37.56	63.54	25.98	QP	
2	0.377	9.39	0.03	35.45	44.87	58.34	13.47	QP	
3	0.630	9.50	0.04	23.89	33.43	56.00	22.57	QP	
4	0.933	9.49	0.05	23.22	32.76	56.00	23.24	QP	
5	1.135	9.49	0.05	23.46	33.00	56.00	23.00	QP	
6	1.381	9.49	0.06	23.50	33.05	56.00	22.95	QP	

Remarks: 1. Emission Level=LISN Factor+Cable Loss+Reading.
 2. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

Data: 3

File: E:\1#CE\2017 Report Data\F\Foxcon\ACS16Q0633-FCC.EM6 (14)

Date: 2017-07-09



Site no : 1# CE Data No : 3
 Dis./Lisn : 2017 LISN ENV216-N LISN phase:
 Limit : FCC PART 15 C
 Env./Ins. : 22.5°C/53% Engineer : Garry
 EUT : Cash Register M/N:SPB1-01
 Power Rating : AC 120V/60Hz
 Test Mode : BT4.0 TX

No	Freq (MHz)	LISN	Cable	Emission				Margin (dB)	Remark
		Factor (dB)	Loss (dB)	Reading (dBuV)	Level (dBuV)	Limits (dBuV)	Margin (dB)		
1	0.190	9.46	0.02	28.08	37.56	64.02	26.46	QP	
2	0.381	9.42	0.03	35.41	44.86	58.25	13.39	QP	
3	0.668	9.32	0.04	23.72	33.08	56.00	22.92	QP	
4	0.943	9.34	0.05	23.38	32.77	56.00	23.23	QP	
5	1.123	9.35	0.05	23.13	32.53	56.00	23.47	QP	
6	1.418	9.35	0.06	23.38	32.79	56.00	23.21	QP	

Remarks: 1. Emission Level=LISN Factor+Cable Loss+Reading.
 2. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

4. RADIATED EMISSION MEASUREMENT

4.1. Test Equipments

Frequency range: 30~1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Mar.28,17	1 Year
2.	Spectrum Analyzer	Agilent	E7405A	MY45116588	Oct.15,16	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESR7	101547	Apr.22,17	1 Year
4.	Amplifier	HP	8447D	2648A04738	Apr.22,17	1 Year
5.	Bi-log Antenna	TESEQ	CBL6112D	35375	Aug.03,16	1 Year
6.	Loop Antenna	Chase	HLA6120	1062	Sep.25,16	1 Year
7.	RF Cable	MIYAZAKI	CFD400NL-LW	No.3	Sep.26.16	1 Year
8.	Coaxial Switch	Anritsu	MP59B	6201397222	Apr.22,17	1 Year
9.	Attenuator	EMCI	EMCI-N-6-06	AT-N0639	Sep.26.16	1 Year
10.	Test Software	AUDIX	e3	6.2009-5-21a(n)	N/A	N/A

Note: N/A means Not applicable.

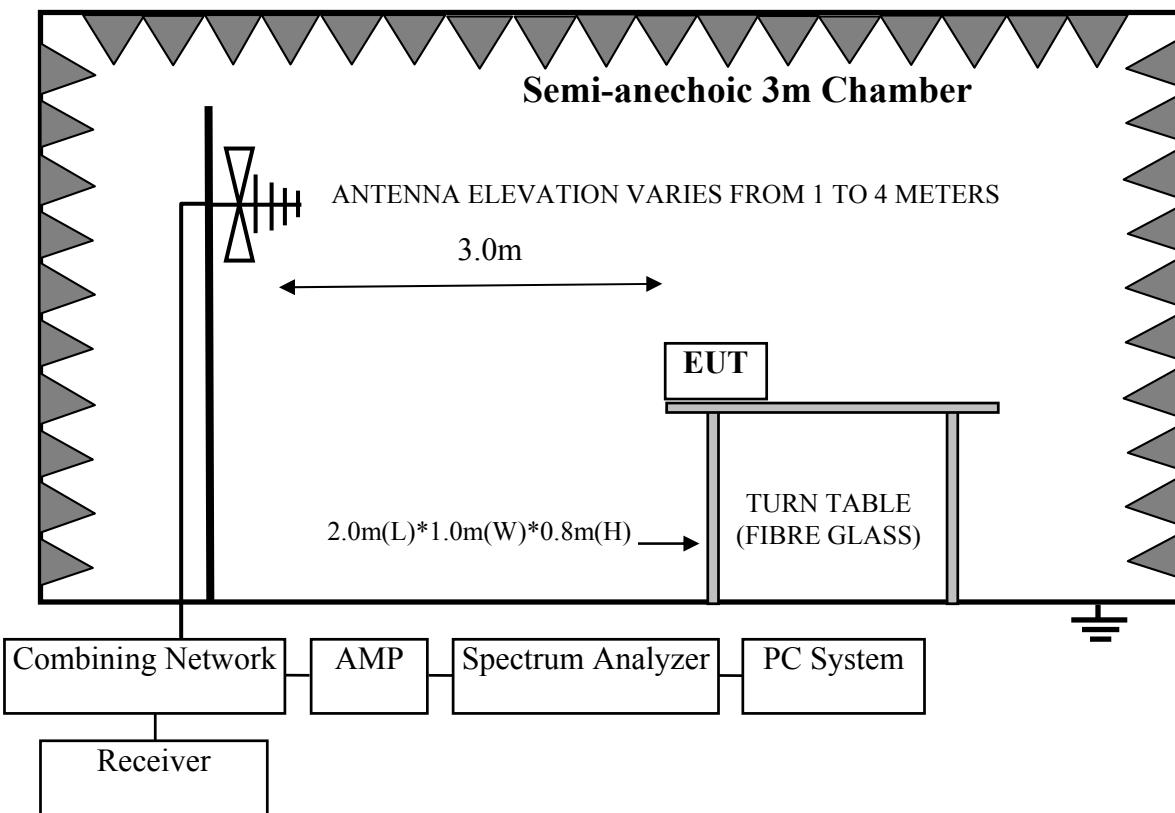
Frequency range: above 1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	Apr.22,17	1 Year
2.	Horn Antenna	ETC	MCTD 1209	DRH15F03007	May.15,17	1 Year
3.	Amplifier	Agilent	8449B	3008A02495	Apr.22,17	1 Year
4.	RF Cable	Hubersuhner	SUCOFLEX104	274094/4	Apr.22,17	1 Year
5.	Horn Antenna	ETS	3116	00060089	Nov.16,16	1 Year
6.	Test Software	AUDIX	e3	6.2009-5-21a(n)	N/A	N/A

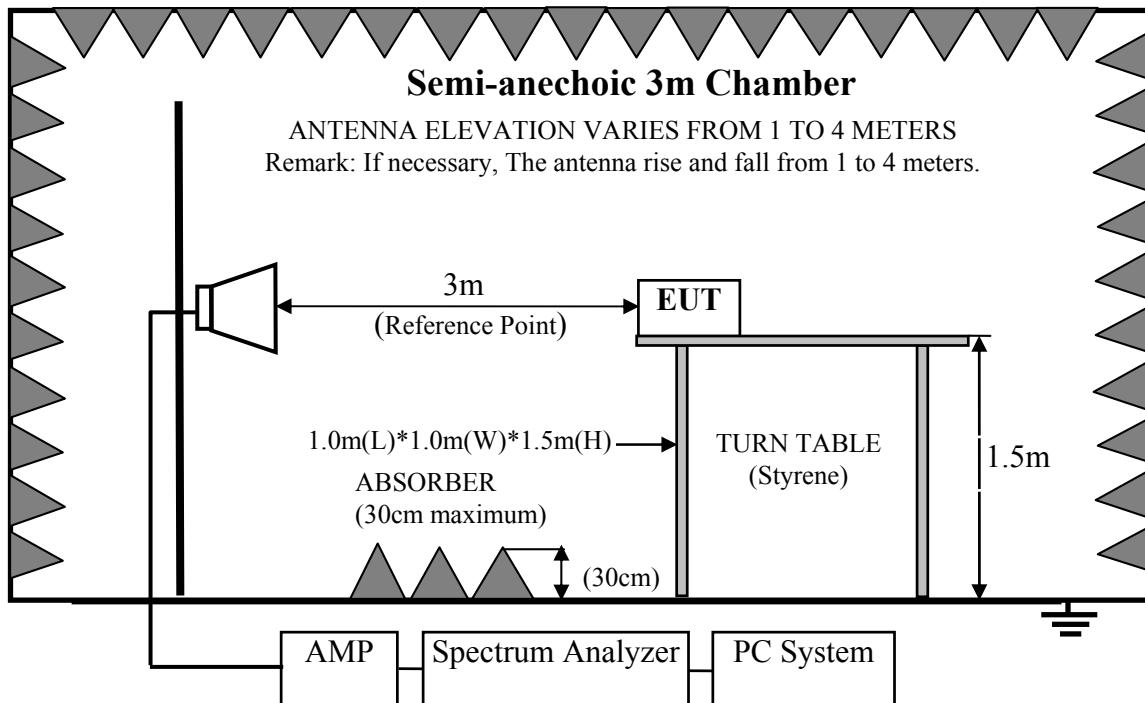
Note: N/A means Not applicable.

4.2. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz



For frequency range 1GHz-25GHz



4.3. Radiated Emission Limit Standard:

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000MHz	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

- Remarks :
- (1) Emission level $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V}/\text{m}$
 - (2) The smaller limit shall apply at the cross point between two frequency bands.
 - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.
 - (4) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

4.4. EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.4.1. Cash Register (EUT)

Model No. : SPB1-01
Serial No. : N/A

4.5. Operating Condition of EUT

4.5.1. Setup the EUT and simulator as shown as Section 4.2.

4.5.2. Turn on the power of all equipments.

4.5.3. Let EUT work in Tx mode.

4.6. Test Procedure

Frequency below 30MHz:

The EUT setup on the turn table which has 0.8 m height to the ground. The turn table rotated 360 degrees and antenna fixed to 1 m to find the maximum emission level. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground for frequency 30MHz~1000MHz, 1.5 meter high above ground for frequency above 1GHz and put the absorbing with 2.4m(L)*2.4m(W)*0.3m(H) on the ground . The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it.EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna for frequency 30MHz~1000MHz, and the Horm antenna is used as receiving antenna for frequency above 1GHz. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10-2013 on radiated emission Test.

This test was performed with EUT in X, Y, Z position, and the worse case was found when EUT in X position as the test photo indicated.

The bandwidth of the EMI test receiver (R&S ESR7) is set at 120kHz for frequency range from 30MHz to 1000MHz.

The bandwidth of the Spectrum's RBW is set at 1MHz and VBW is set at 3MHz for peak emissions measurement above 1GHz.

This device is pulse Modulated, a duty cycle factor was used to calculated average level based measured peak level.

The frequency range from 30MHz to 10th harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

4.7. Radiated Emission Test Results

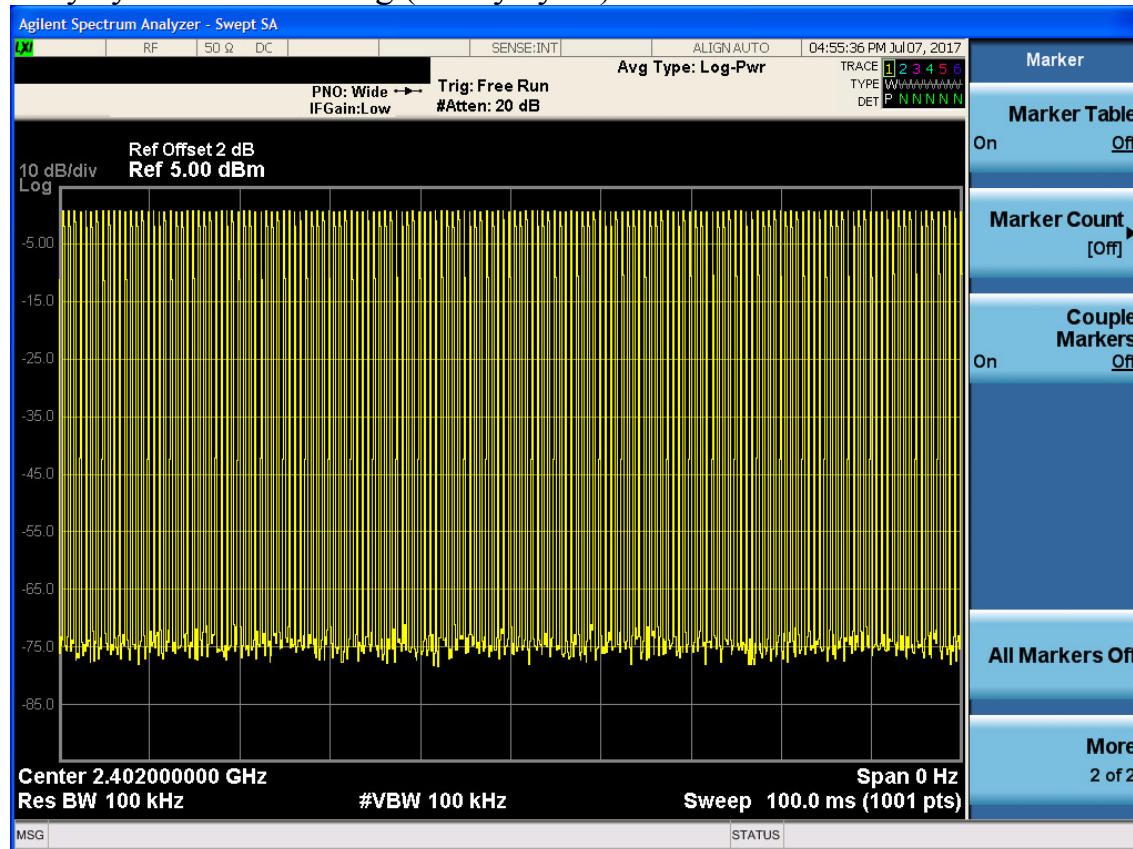
PASS.

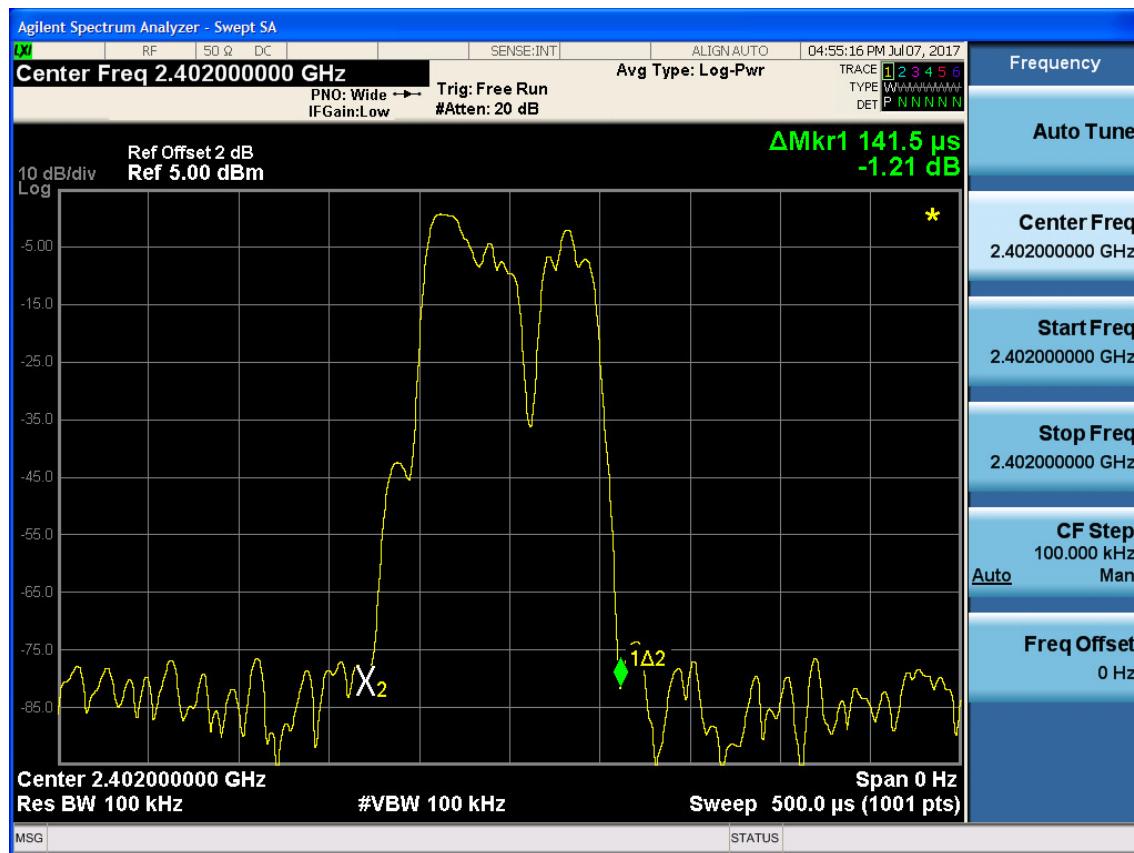
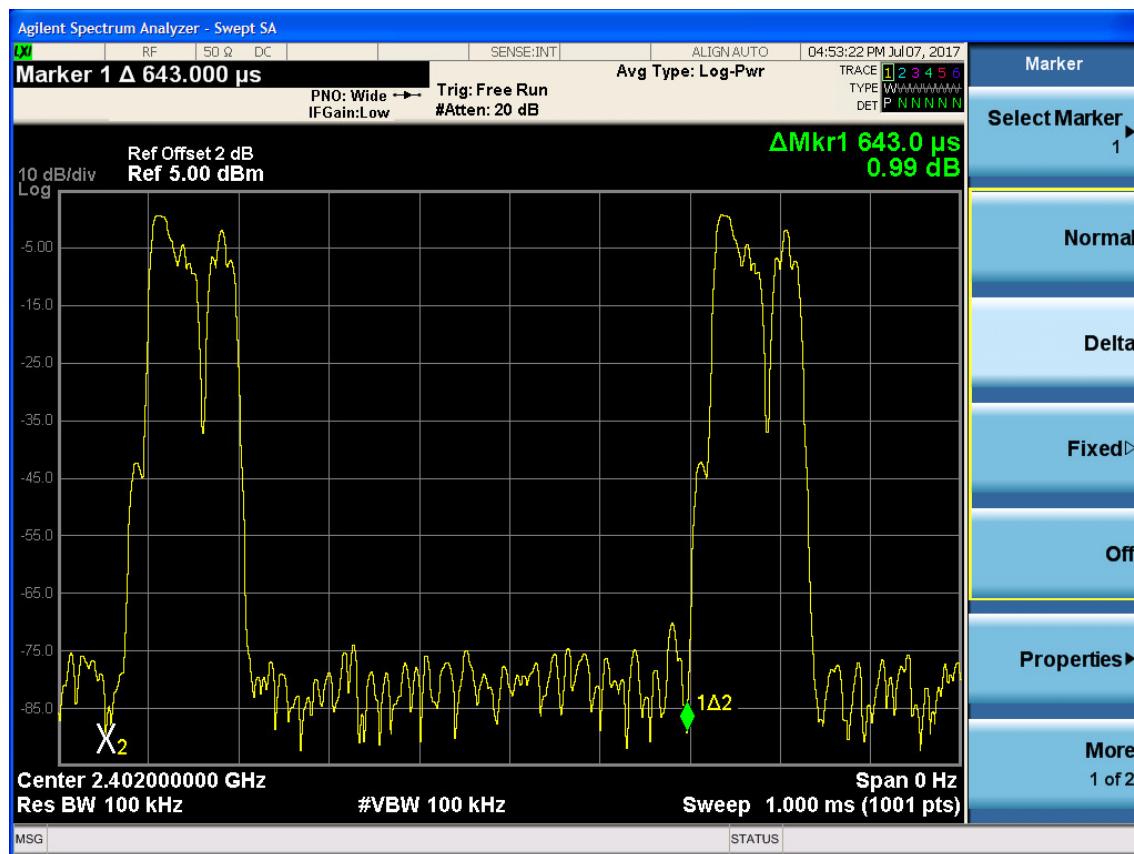
All the emissions from 30MHz to 25GHz were comply with the 15.209 Limit.

Note 1: The duty cycle factor for calculate average level is 13.149dB, and average limit is 20dB below peak limit, so if peak measured level comply with average limit, the average level was deemed to comply with average limit

Note 2: The emissions (9kHz~30MHz) not reported for there is no emission be found.

Duty cycle factor = $20\log(1/\text{duty cycle}) = 13.149\text{dB}$



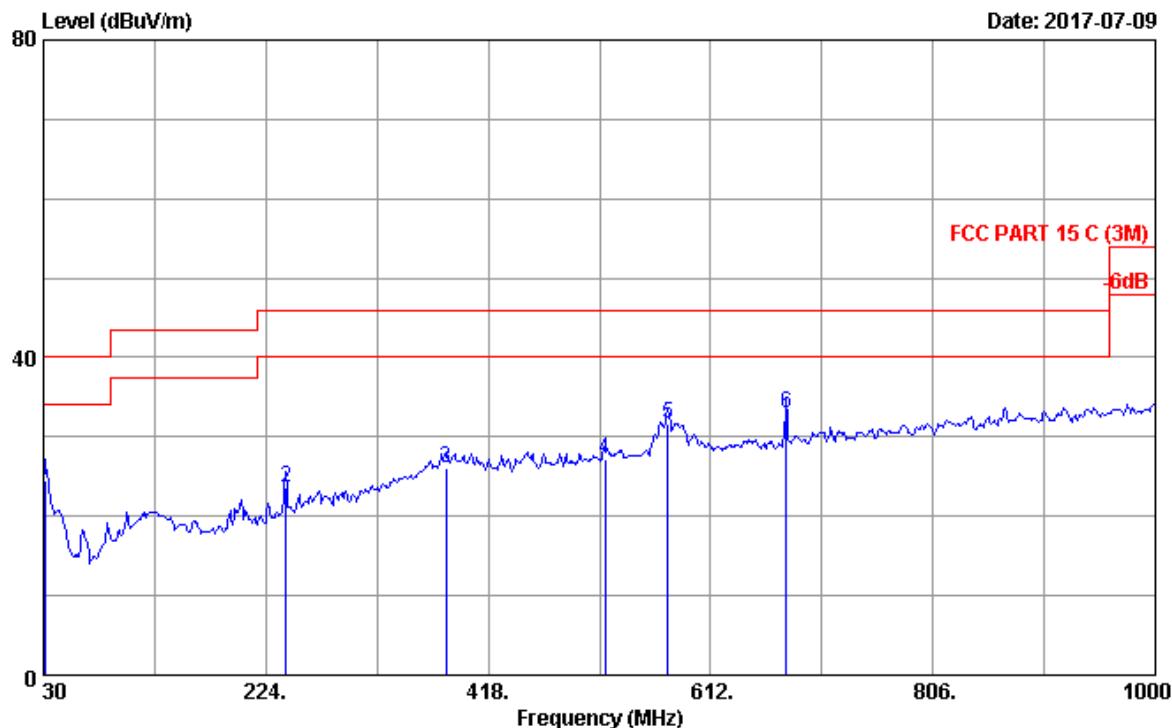


Frequency: 30MHz~1GHz

Data: 3

File: E:\2017 Report Data\F\Foxcon\ACS16Q0633-FCC.EM6 (14)

Date: 2017-07-09



Site no. : 3m Chamber Data no. : 3
Dis. / Ant. : 3m 2017 CBL6112D 35375 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 21.8°C/54% Engineer : Garry
EUT : Cash Register M/N:SPB1-01
Power rating : AC 120V/60Hz
Test Mode : BT 4.0 TX
:

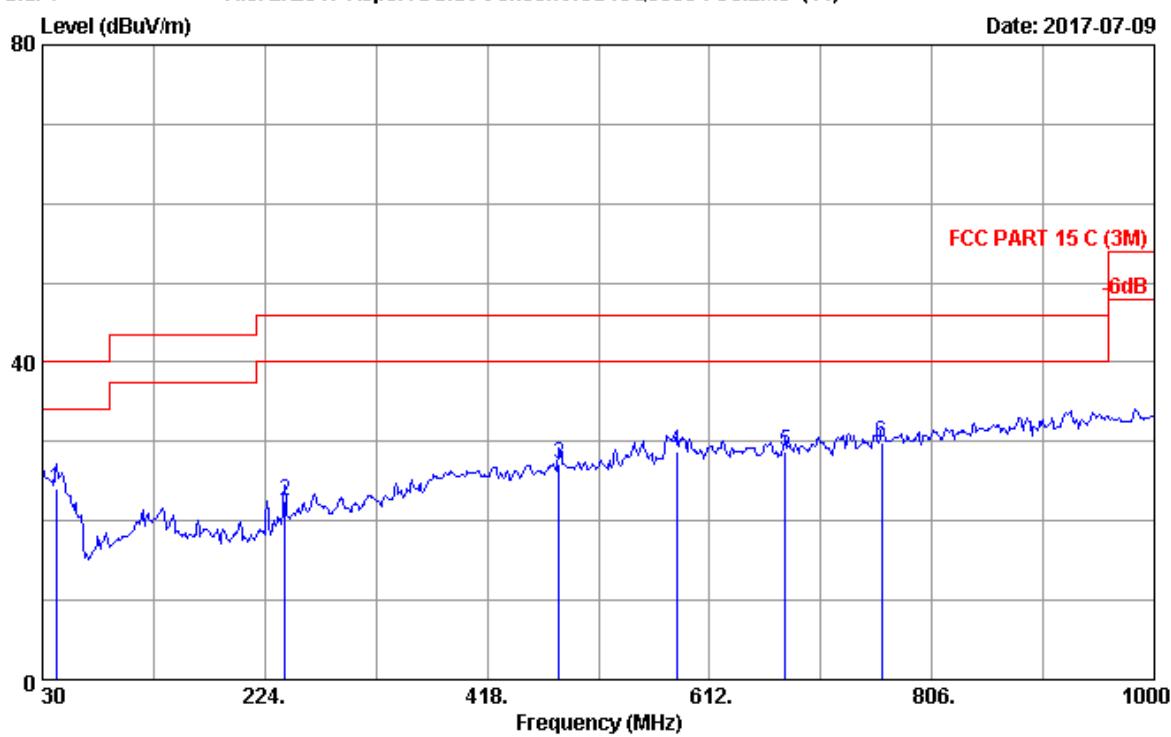
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB _{UV})	Emission			
					Level (dB _{UV} /m)	Limits (dB _{UV} /m)	Margin (dB)	Remark
1	31.940	18.00	6.58	-0.02	24.56	40.00	15.44	QP
2	241.460	12.76	7.55	3.25	23.56	46.00	22.44	QP
3	381.140	16.32	8.14	1.72	26.18	46.00	19.82	QP
4	519.850	18.47	8.65	0.02	27.14	46.00	18.86	QP
5	575.140	18.97	8.86	3.85	31.68	46.00	14.32	QP
6	677.960	19.90	9.44	3.61	32.95	46.00	13.05	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Data: 4

File: E:\2017 Report Data\F\Foxcon\ACS16Q0633-FCC.EM6 (14)

Date: 2017-07-09

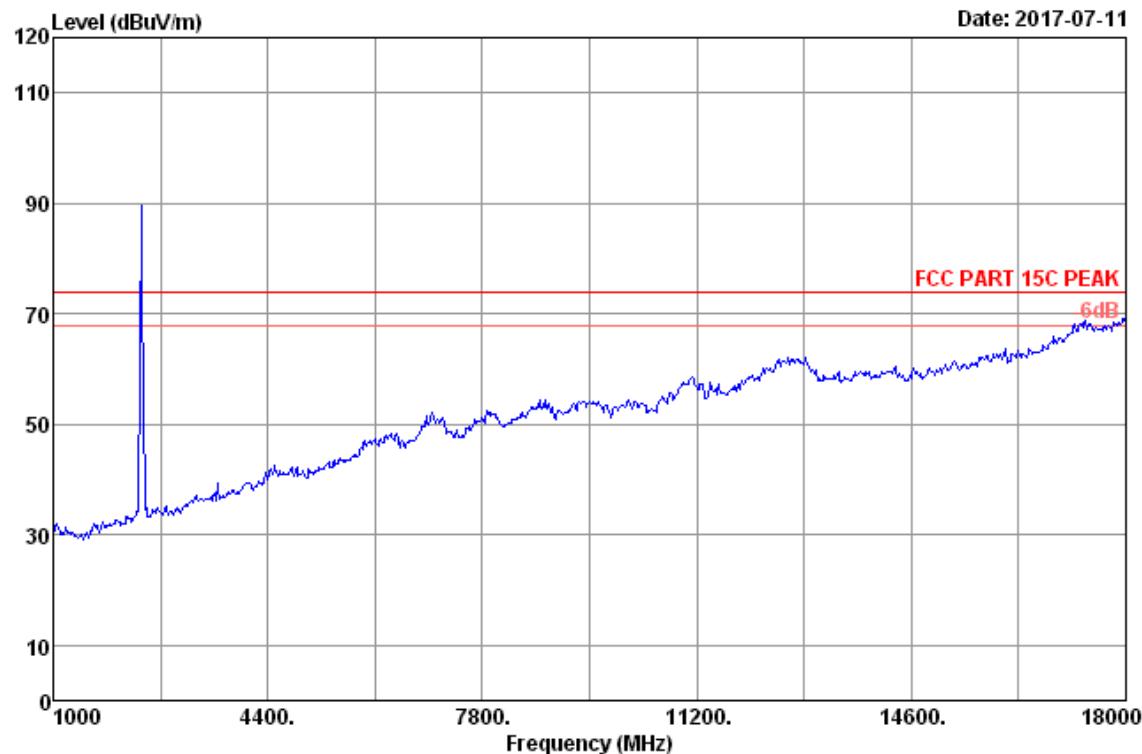


Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2017 CBL6112D 35375 Ant. pol. : VERTICAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 21.8°C/54% Engineer : Garry
 EUT : Cash Register M/N:SPB1-01
 Power rating : AC 120V/60Hz
 Test Mode : BT 4.0 TX
 :

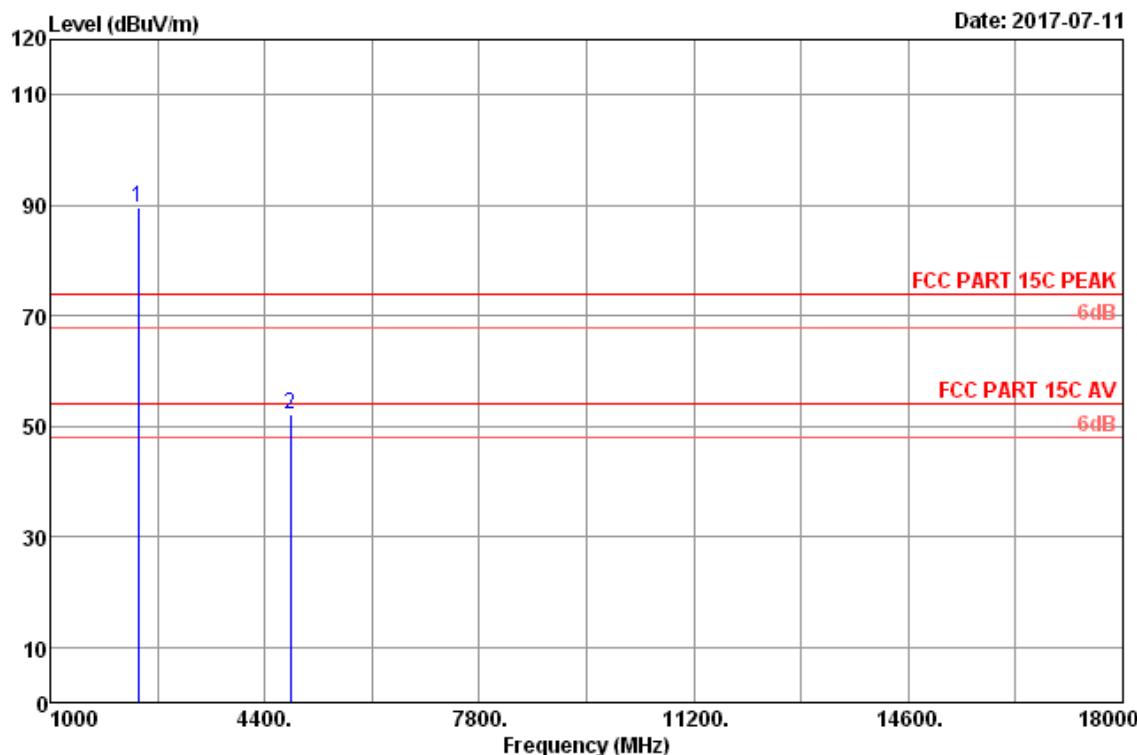
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	41.640	13.62	6.61	3.91	24.14	40.00	15.86	QP
2	241.460	12.76	7.55	2.28	22.59	46.00	23.41	QP
3	481.050	18.01	8.51	0.61	27.13	46.00	18.87	QP
4	582.900	19.04	8.89	0.81	28.74	46.00	17.26	QP
5	677.960	19.90	9.44	-0.59	28.75	46.00	17.25	QP
6	762.350	20.72	9.76	-0.60	29.88	46.00	16.12	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Frequency: 1GHz~18GHz



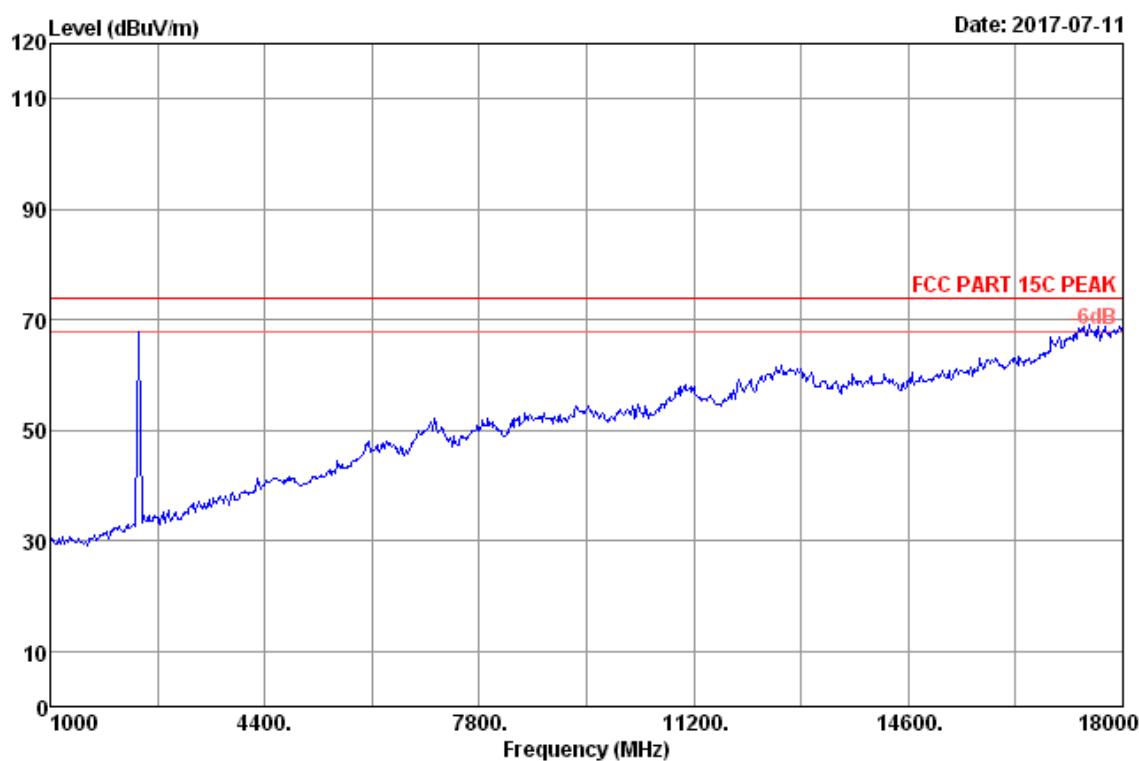
Site no.	:	3m Chamber	Data no.	:	1
Dis. / Ant.	:	3m 2017 ANT 3007 HF	Ant. pol.	:	HORIZONTAL
Limit	:	FCC PART 15C PEAK	Pre	:	101.2kPa
Env. / Ins.	:	23.1°C/53.3%	Engineer	:	Garry
EUT	:	Cash Register M/N:SPB1-01			
Power	:	AC 230V/50Hz			
Test Mode	:	BT4.0 BLE 2402 Tx Mode			
	:				



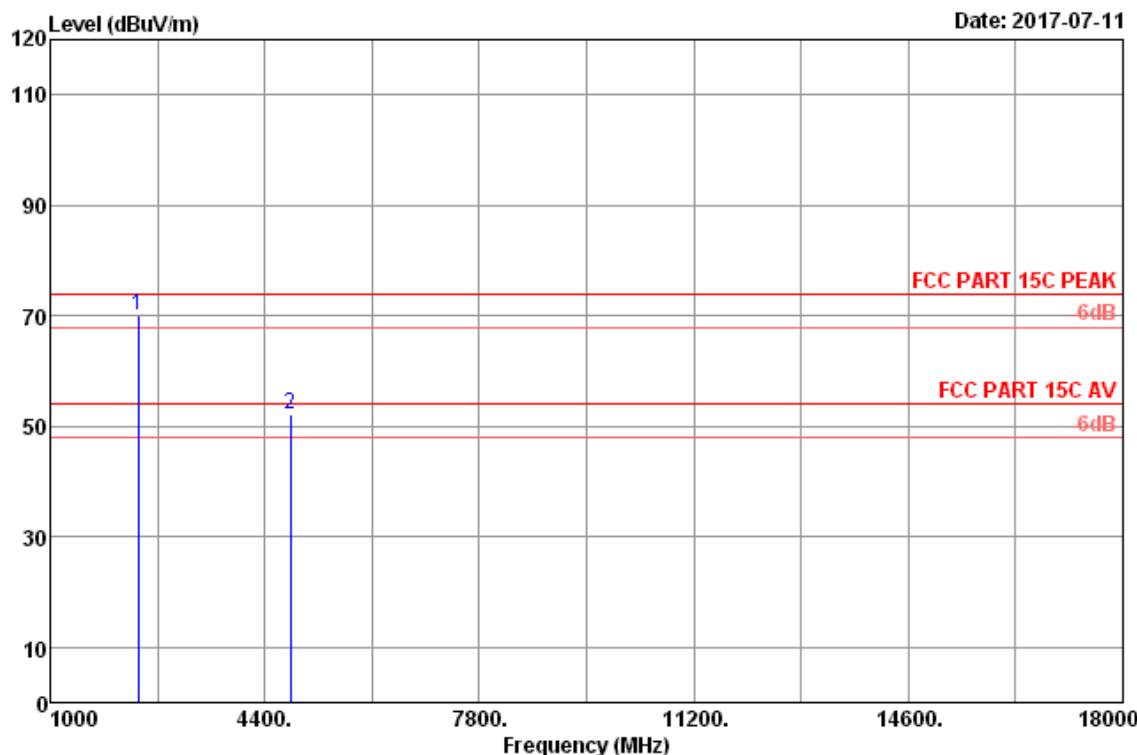
Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2017 ANT 3007 HF Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Pre : 101.2kPa
 Env. / Ins. : 23.1*C/53.3% Engineer : Garry
 EUT : Cash Register M/N:SPB1-01
 Power : AC 230W/50Hz
 Test Mode : BT4.0 BLE 2402 Tx Mode
 :

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission	Limits (dBuV/m)	Margin (dB)	Remark
		Factor (dB/m)	Loss (dB)	Reading (dBuV)	factor (dB)			
1	2402.00	27.69	7.88	90.47	36.39	89.65	74.00	-15.65 Peak
2	4804.00	32.25	12.07	43.65	35.67	52.30	74.00	21.70 Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



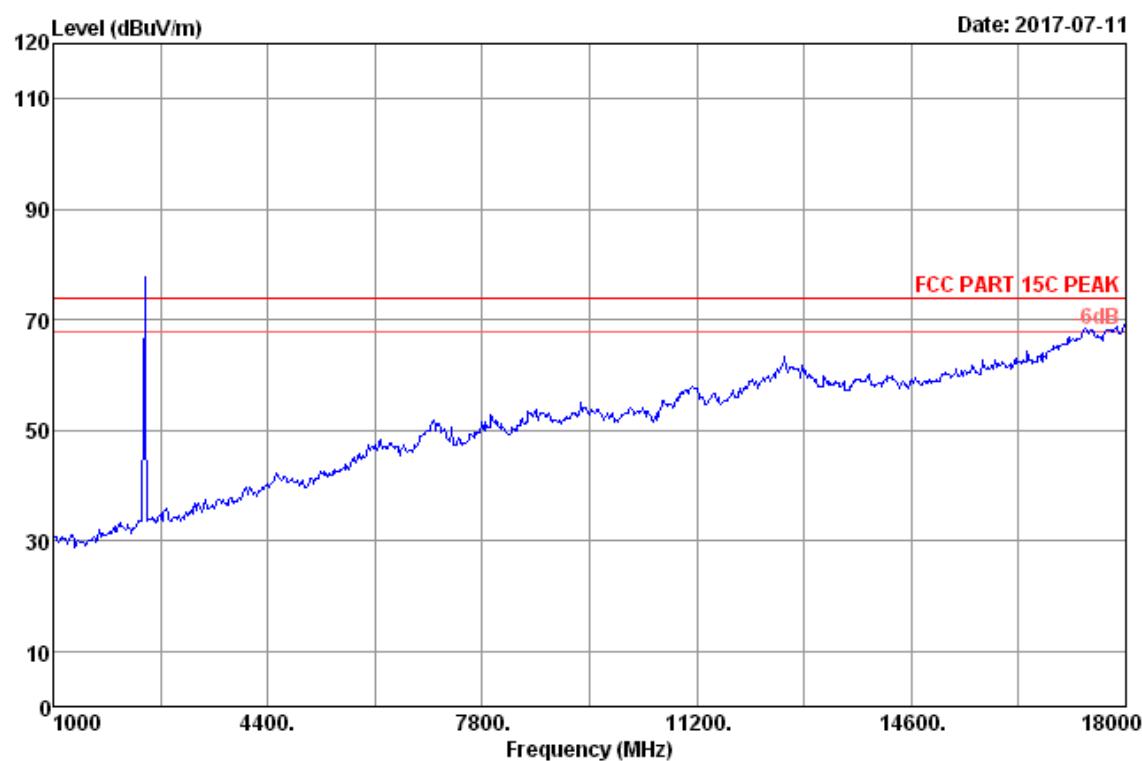
Site no. : 3m Chamber Data no. : 3
Dis. / Ant. : 3m 2017 ANT 3007 HF Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK Pre : 101.2kPa
Env. / Ins. : 23.1*C/53.3% Engineer : Garry
EUT : Cash Register M/N:SPB1-01
Power : AC 230W/50Hz
Test Mode : BT4.0 BLE 2402 Tx Mode
:



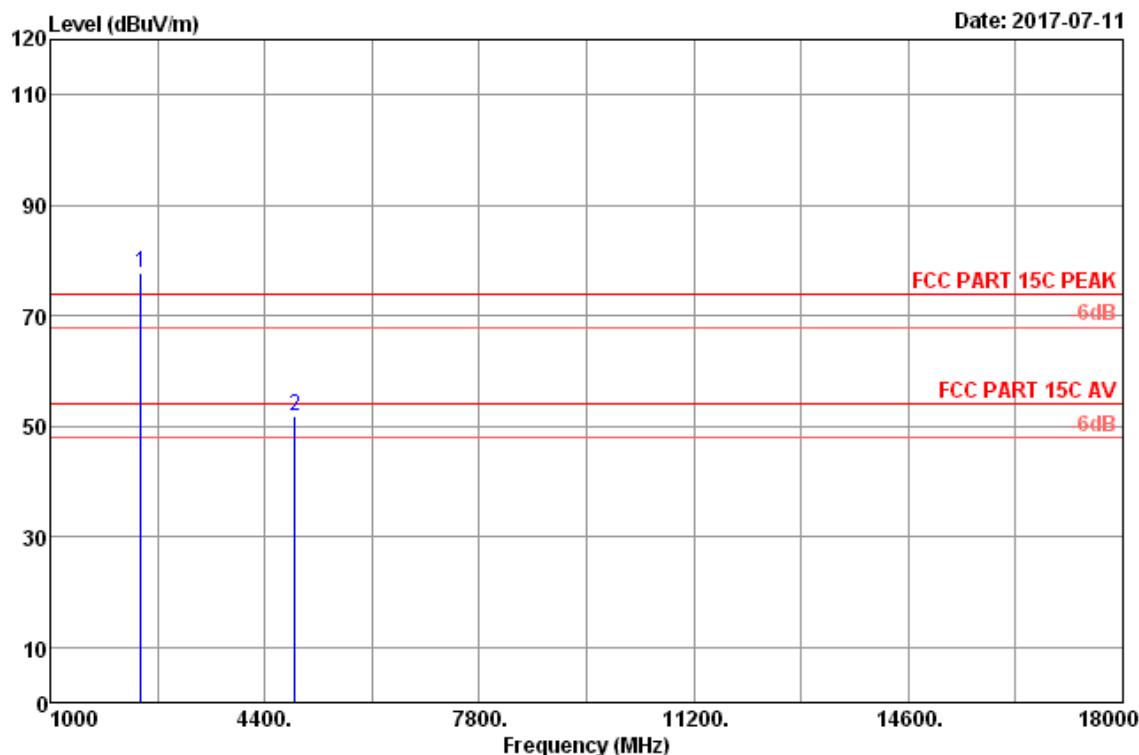
Site no. : 3m Chamber Data no. : 4
Dis. / Ant. : 3m 2017 ANT 3007 HF Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK Pre : 101.2kPa
Env. / Ins. : 23.1°C/53.3% Engineer : Garry
EUT : Cash Register M/N:SPB1-01
Power : AC 230W/50Hz
Test Mode : BT4.0 BLE 2402 Tx Mode
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	AMP factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.69	7.88	70.84	36.39	70.02	74.00	3.98	Peak
2	4804.00	32.25	12.07	43.65	35.67	52.30	74.00	21.70	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



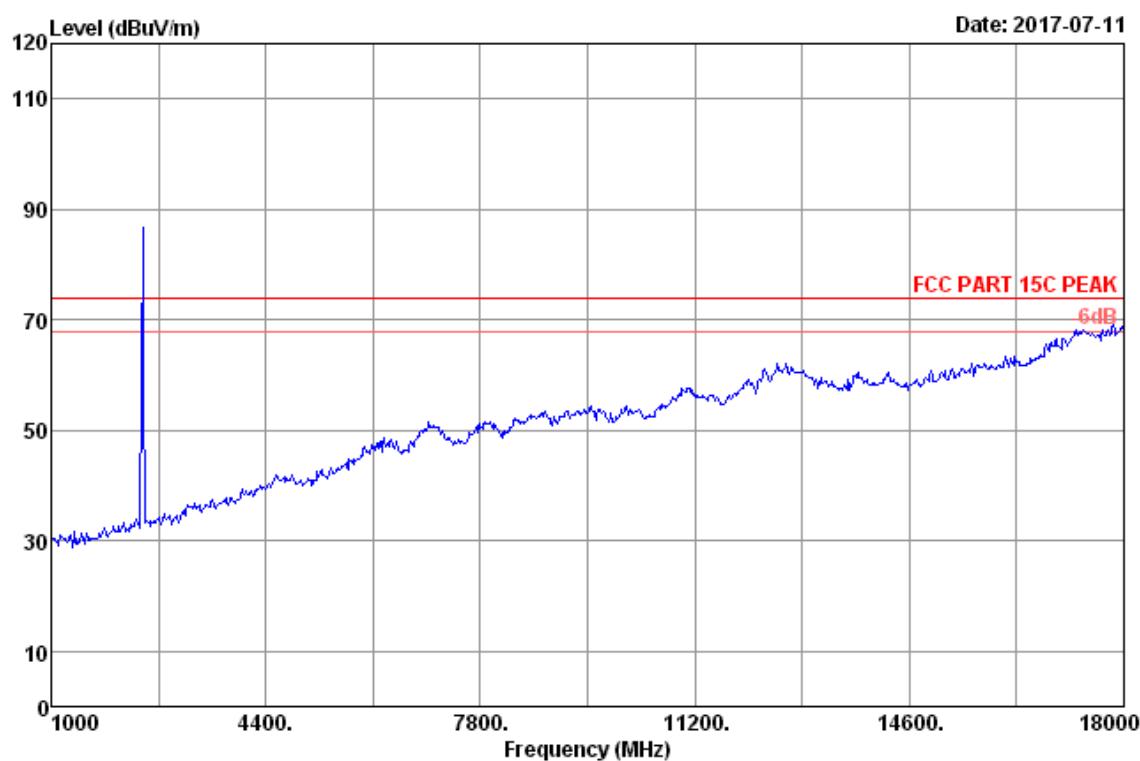
Site no. : 3m Chamber Data no. : 7
Dis. / Ant. : 3m 2017 ANT 3007 HF Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK Pre : 101.2kPa
Env. / Ins. : 23.1*C/53.3% Engineer : Garry
EUT : Cash Register M/N:SPB1-01
Power : AC 230W/50Hz
Test Mode : BT4.0 BLE 2440 Tx Mode
:



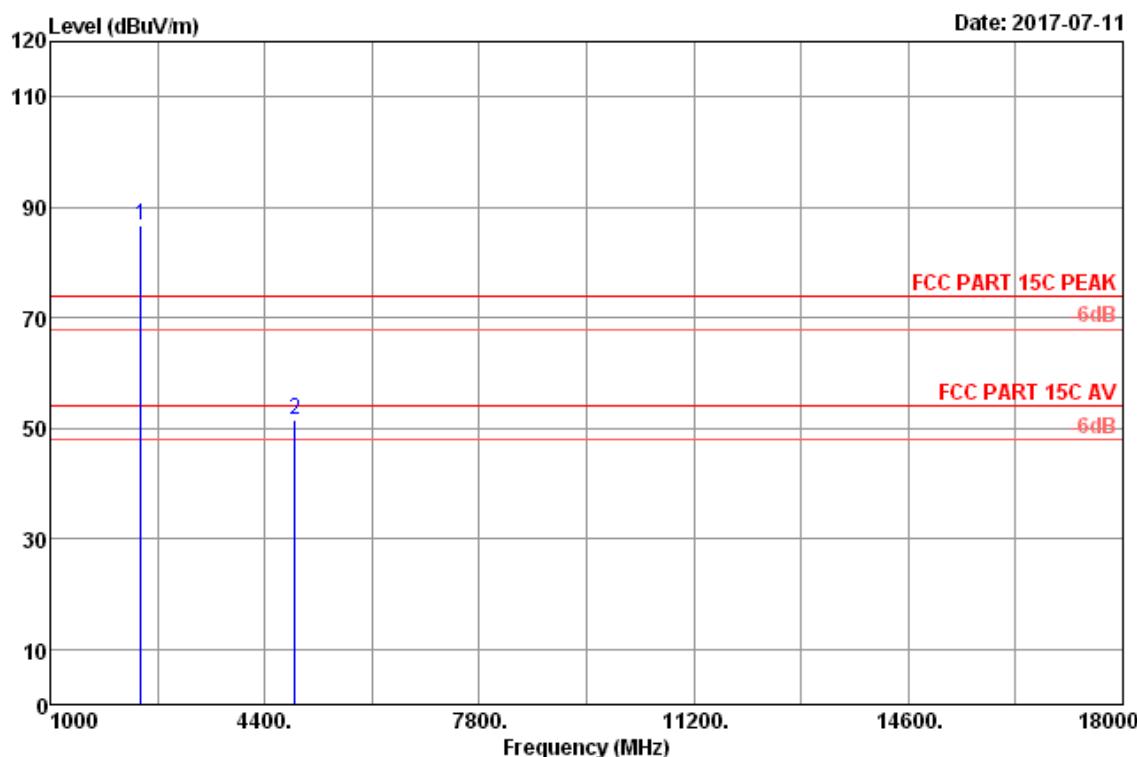
Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 2017 ANT 3007 HF Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Pre : 101.2kPa
 Env. / Ins. : 23.1*C/53.3% Engineer : Garry
 EUT : Cash Register M/N:SPB1-01
 Power : AC 230W/50Hz
 Test Mode : BT4.0 BLE 2440 Tx Mode
 :

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	AMP factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2440.00	27.80	7.95	78.36	36.38	77.73	74.00	-3.73	Peak
2	4880.00	32.20	12.22	43.21	35.69	51.94	74.00	22.06	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



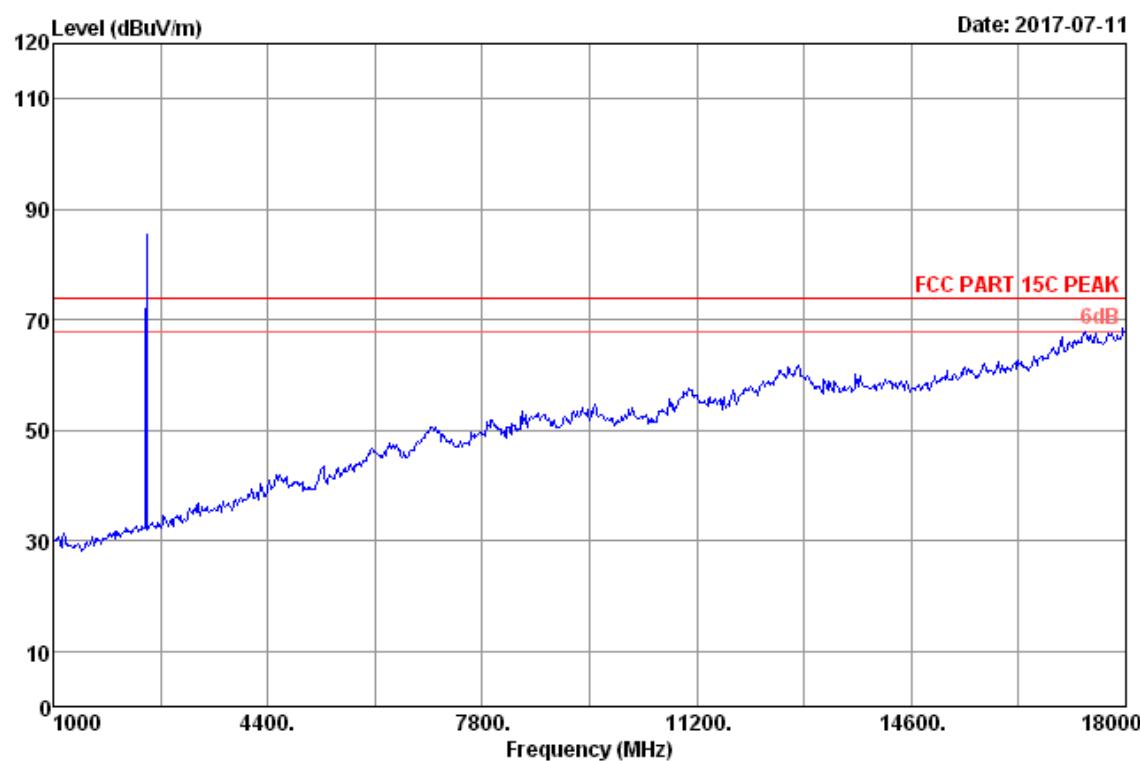
Site no. : 3m Chamber Data no. : 9
Dis. / Ant. : 3m 2017 ANT 3007 HF Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK Pre : 101.2kPa
Env. / Ins. : 23.1*C/53.3% Engineer : Garry
EUT : Cash Register M/N:SPB1-01
Power : AC 230W/50Hz
Test Mode : BT4.0 BLE 2440 Tx Mode
:



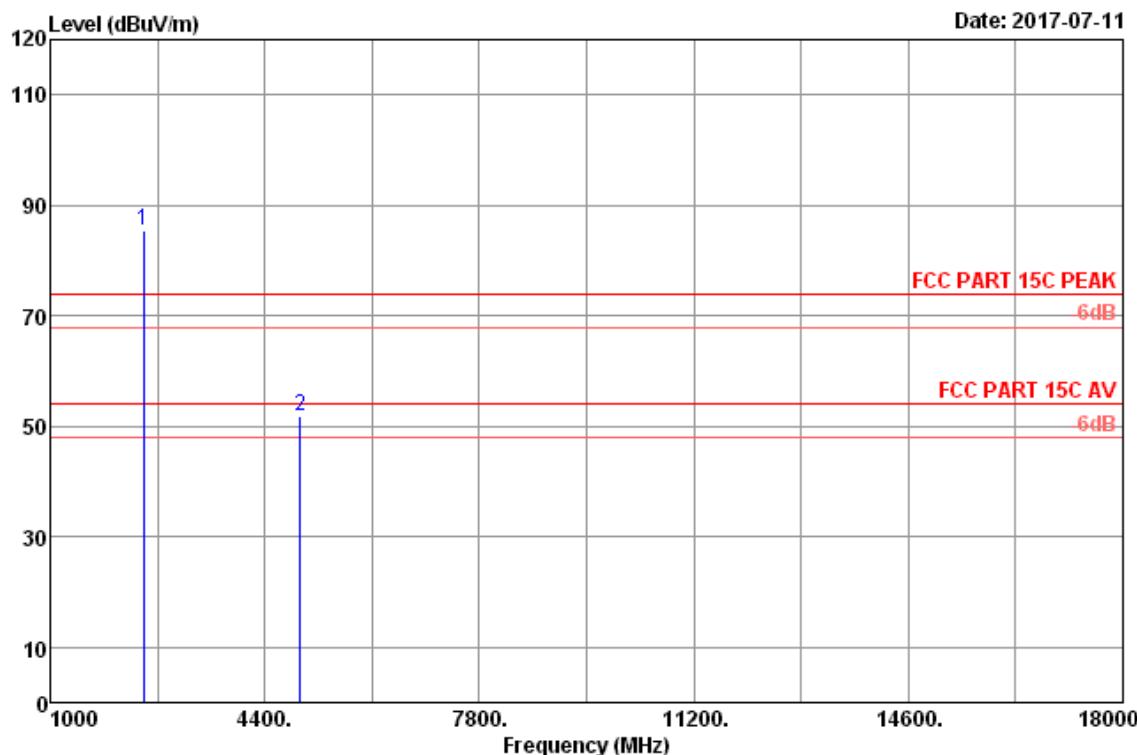
Site no. : 3m Chamber Data no. : 10
Dis. / Ant. : 3m 2017 ANT 3007 HF Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK Pre : 101.2kPa
Env. / Ins. : 23.1°C/53.3% Engineer : Garry
EUT : Cash Register M/N:SPB1-01
Power : AC 230W/50Hz
Test Mode : BT4.0 BLE 2440 Tx Mode
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	AMP factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2440.00	27.80	7.95	87.47	36.38	86.84	74.00	-12.84	Peak
2	4880.00	32.20	12.22	42.81	35.69	51.54	74.00	22.46	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



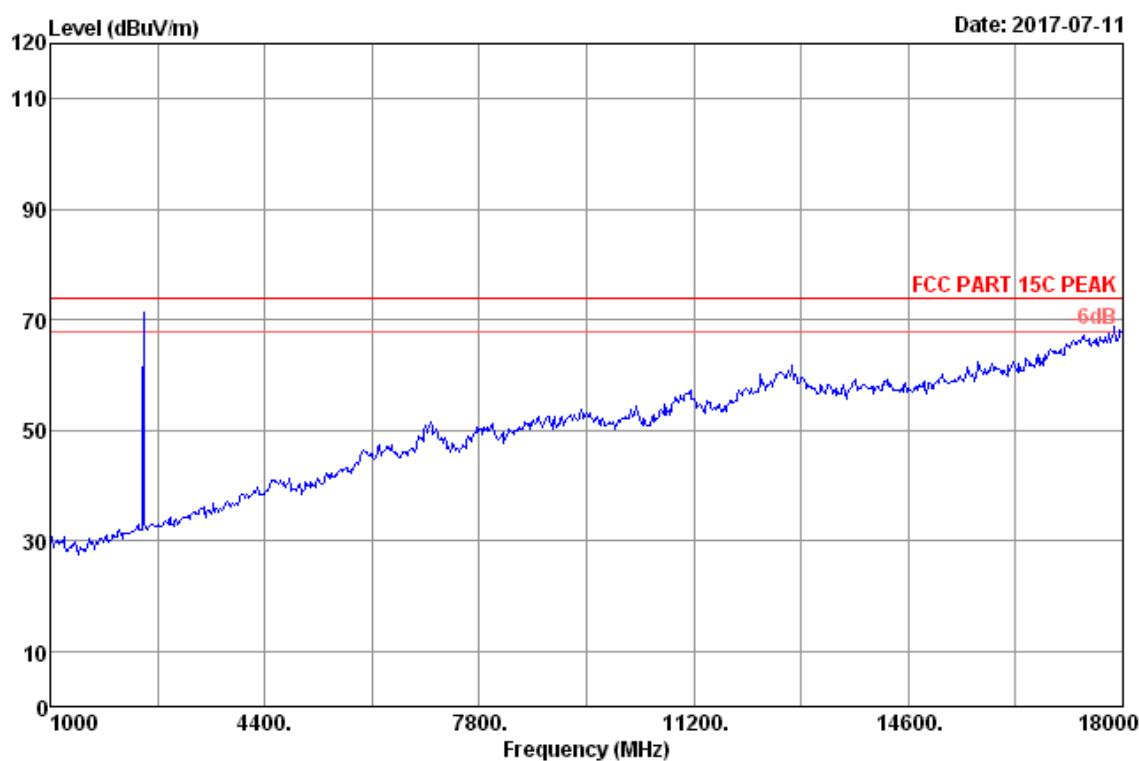
Site no. : 3m Chamber Data no. : 11
Dis. / Ant. : 3m 2017 ANT 3007 HF Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK Pre : 101.2kPa
Env. / Ins. : 23.1°C/53.3% Engineer : Garry
EUT : Cash Register M/N:SPB1-01
Power : AC 230V/50Hz
Test Mode : BT4.0 BLE 2480 Tx Mode
:



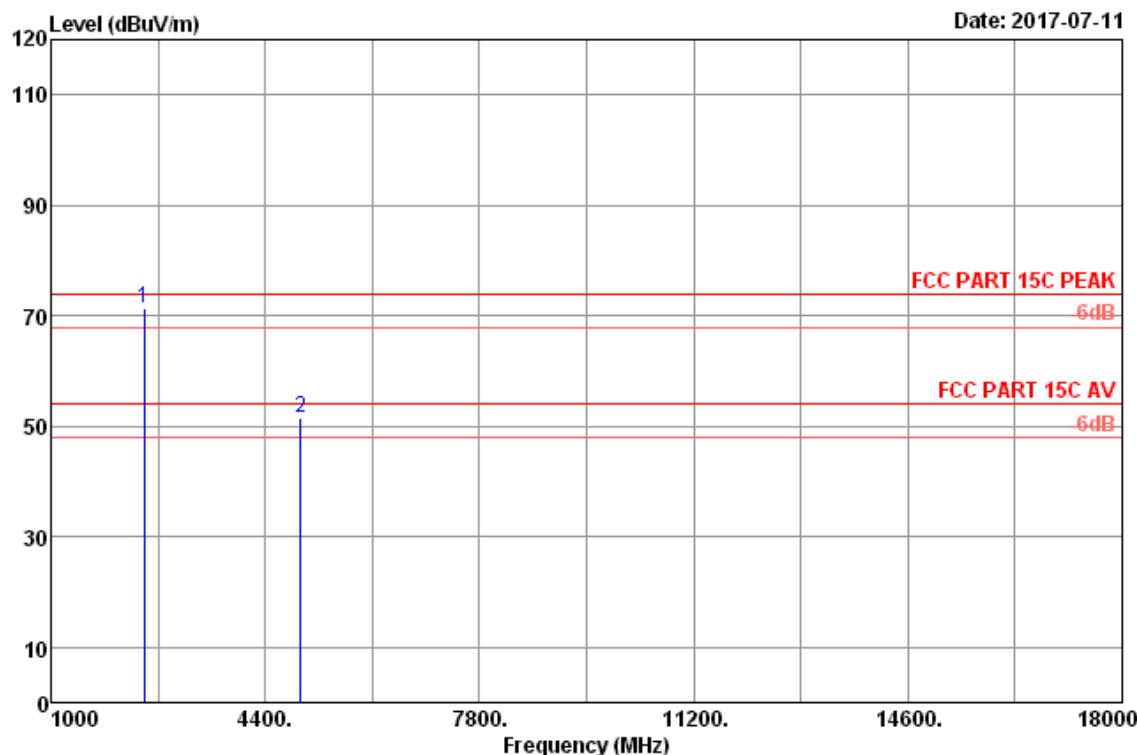
Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 2017 ANT 3007 HF Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Pre : 101.2kPa
 Env. / Ins. : 23.1°C/53.3% Engineer : Garry
 EUT : Cash Register M/N:SPB1-01
 Power : AC 230W/50Hz
 Test Mode : BT4.0 BLE 2480 Tx Mode
 :

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission	Limits (dBuV/m)	Margin (dB)	Remark
		Factor (dB/m)	Loss (dB)	Reading (dBuV)	factor (dB)			
1	2480.00	27.87	8.02	86.01	36.38	85.52	74.00	-11.52 Peak
2	4960.00	32.13	12.38	43.01	35.71	51.81	74.00	22.19 Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 13
Dis. / Ant. : 3m 2017 ANT 3007 HF Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK Pre : 101.2kPa
Env. / Ins. : 23.1*C/53.3% Engineer : Garry
EUT : Cash Register M/N:SPB1-01
Power : AC 230W/50Hz
Test Mode : BT4.0 BLE 2480 Tx Mode
:



Site no. : 3m Chamber Data no. : 14
Dis. / Ant. : 3m 2017 ANT 3007 HF Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK Pre : 101.2kPa
Env. / Ins. : 23.1°C/53.3% Engineer : Garry
EUT : Cash Register M/N:SPB1-01
Power : AC 230W/50Hz
Test Mode : BT4.0 BLE 2480 Tx Mode
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	AMP factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.87	8.02	71.76	36.38	71.27	74.00	2.73	Peak
2	4960.00	32.13	12.38	42.85	35.71	51.65	54.00	2.35	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.

5. CONDUCTED SPURIOUS EMISSIONS

5.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Oct.15,16	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	Apr.27,17	1 Year
3.	RF Cable	Marvelous Microwave Inc	SFL402105FLEX	NO.1	Oct.15,16	1 Year

5.2. Limit

In any 100kHz 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.

5.3. Test Procedure

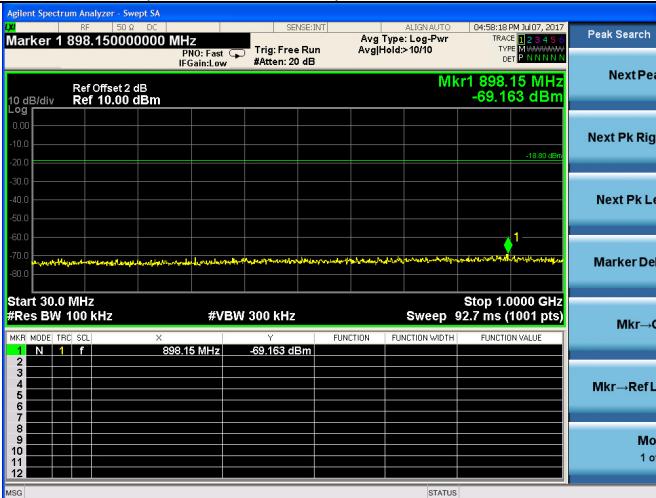
The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz and measure all the emissions With peak detector.

5.4. Test result

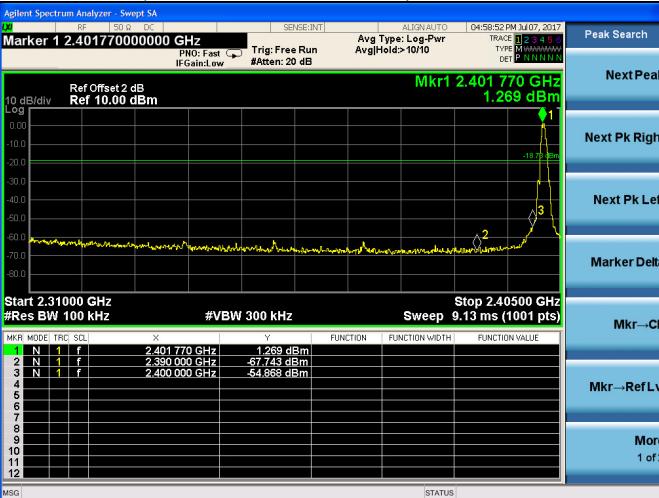
PASS (The testing data was attached in the next pages.)

GFSK

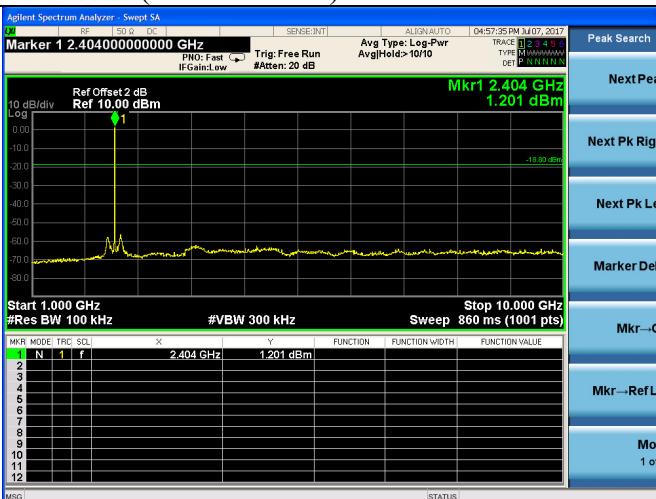
2402MHz(30MHz-1GHz)



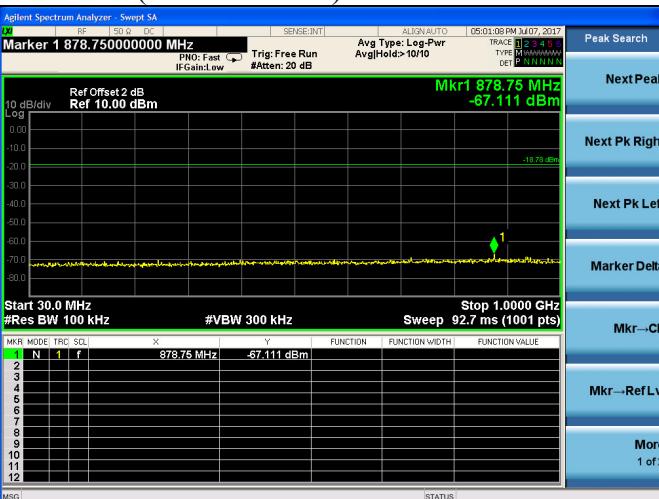
2402MHz(2.31GHz-2.405GHz)



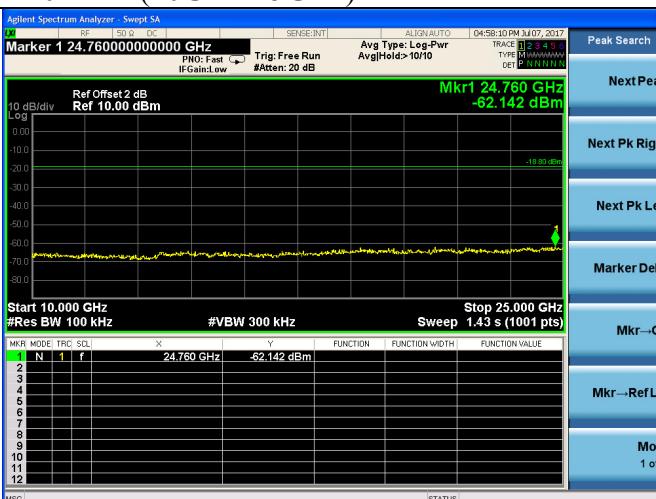
2402MHz(1GHz-10GHz)



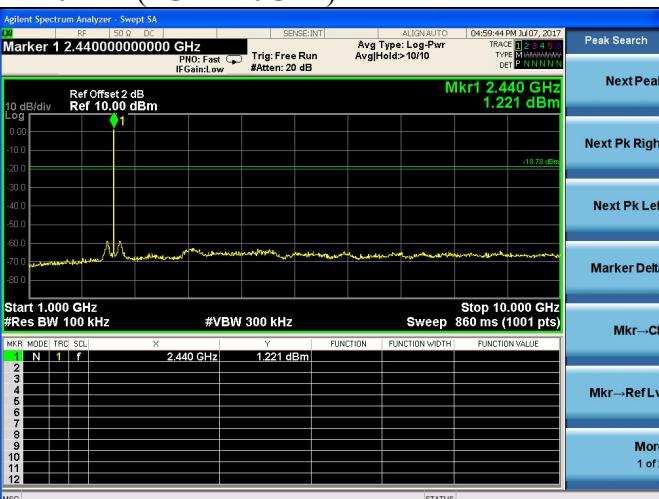
2440MHz(30MHz-1GHz)



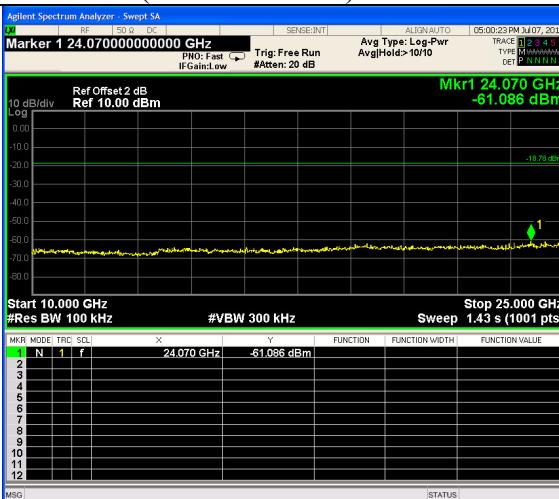
2402MHz(10GHz-25GHz)



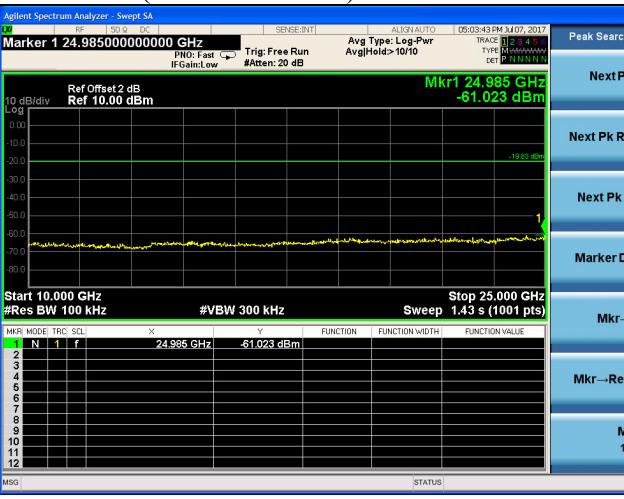
2440MHz(1GHz-10GHz)



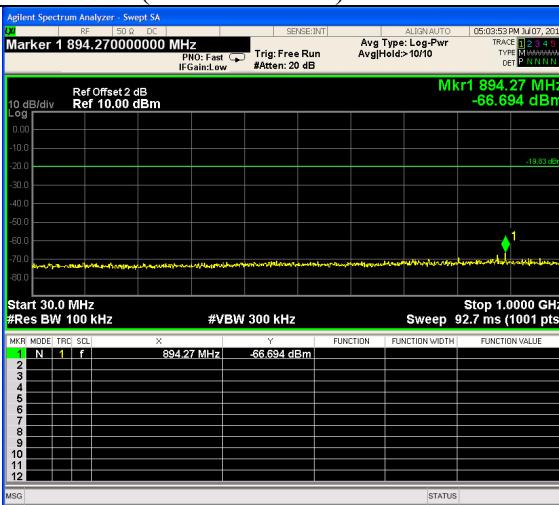
2440MHz(10GHz-25GHz)



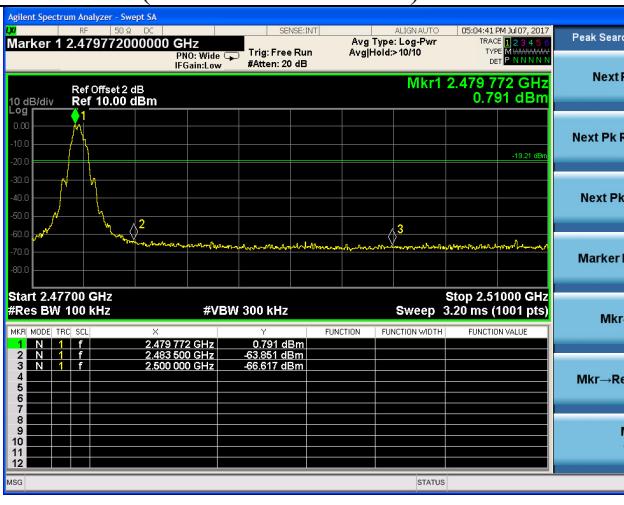
2480MHz(10GHz-25GHz)



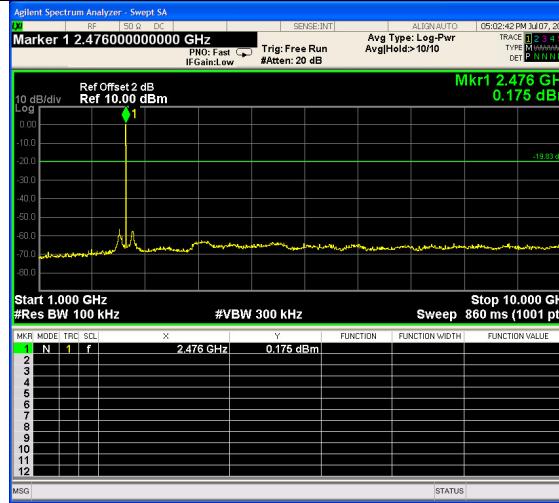
2480MHz(30MHz-1GHz)



2480MHz(2.477GHz-2.51GHz)



2480MHz(1GHz-10GHz)



6. 6dB BANDWIDTH TEST

6.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Oct.15,16	1 Year
2.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr.27,17	1 Year
3.	RF Cable	Marvelous Microwave Inc	SFL402105FLEX	NO.1	Oct.15,16	1 Year

6.2. Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz.

6.3. Test Procedure

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

6.4. Test Results

EUT: Cash Register		
M/N: SPB1-01		
Test date: 2017-07-07	Pressure: 102.5 ± 1.0 kpa	Humidity: $52.3 \pm 3.0\%$
Tested by: Lynn	Test site: RF site	Temperature: 22.1 ± 0.6 °C

Test Mode	Frequency (MHz)	6 dB bandwidth (KHz)	Limit (KHz)
GFSK	2402	508.4	≥ 500
	2440	514.4	≥ 500
	2480	512.7	≥ 500
Conclusion : PASS			

GFSK

2402MHz



2480MHz



2440MHz



7. MAXIMUM PEAK OUTPUT POWER TEST

7.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Oct.15,16	1 Year
2.	Power meter	Anritsu	ML2487A	6K00002472	Apr.22,17	1 Year
3.	Power sensor	Anritsu	MA2491A	0033005	Apr.22,17	1 Year
4.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr.22,17	1 Year
5.	RF Cable	Marvelous Microwave Inc	SFL402105FLEX	NO.1	Oct.15,16	1 Year

7.2. Limit

For systems using digital modulation in the 2400—2483.5MHz, The Peak output Power shall not exceed 1W(30dBm).

7.3. Test Procedure

Connected the EUT's antenna port to Power Sensor, and use power meter to test peak output power.

7.4. Test Results

EUT: Cash Register		
M/N: SPB1-01		
Test date: 2017-07-07	Pressure: 102.5 ± 1.0 kpa	Humidity: $52.3 \pm 3.0\%$
Tested by: Lynn	Test site: RF site	Temperature: 22.1 ± 0.6 °C

Test Mode	Frequency (MHz)	Peak output Power (dBm)	Limit (dBm)
GFSK	2402	1.510	30
	2440	1.640	30
	2480	1.022	30
Conclusion: PASS			

8. BAND EDGE COMPLIANCE TEST

8.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	Apr.22,17	1 Year
2.	Amp	HP	8449B	3008A02495	Apr.22.17	1 Year
3.	Horn Antenna	ETC	MCTD 1209	DRH15F03007	MAY.15,17	1 Year
4.	HF Cable	Hubersuhner	Sucoflex104	274094/4	Apr.22,17	1 Year

8.2. Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

8.3. Test Procedure

For upper band emissions that are up to two bandwidths(2MHz) away (2483.5MHz to 2485.5MHz) from the band-edge use below produce:

1. Choose a spectrum analyzer span that encompasses both the peak of the fundamental emission and the band-edge emission under investigation. Set the analyzer RBW to 100KHz and with a video bandwidth 300KHz. Record the peak levels of the fundamental emission and the relevant band-edge emission, Observe the stored trace and measure the amplitude delta between the peak of the fundamental and the peak of the band-edge emission. This is not a field strength measurement, it is only a relative measurement to determine the amount by which the emission drops at the band edge relative to the highest fundamental emission level.
2. Subtract the delta measured in step (1) from the maximum field strengths measured in clause 4 .The resultant field strengths are then used to determine band-edge compliance as required by Section 15.205

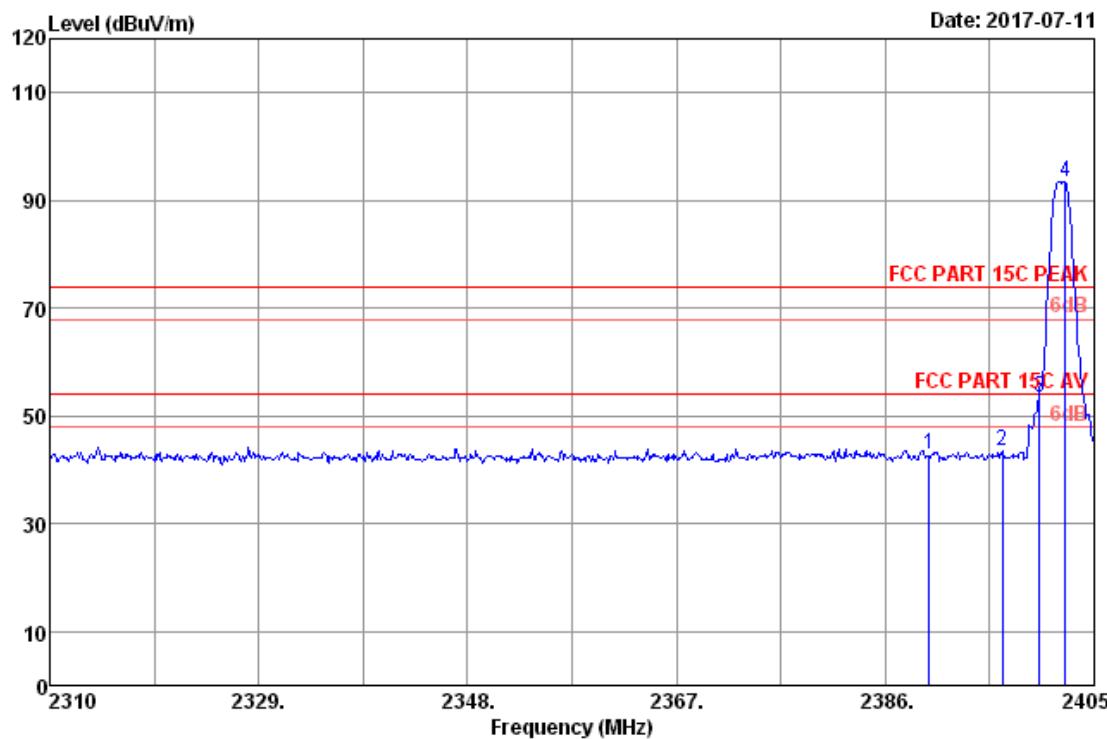
For emissions above two bandwidths away from the band-edge use below produce:

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upperband-edges of the emission:
 - (a) PEAK: RBW=1MHz ;VBW=3MHz, PK detector, Sweep=AUTO
 - (b) This is pulse Modulation device a duty cycle factor was used to calculate average level based measured peak level.

8.4. Test Results

Pass (The testing data was attached in the next pages.)

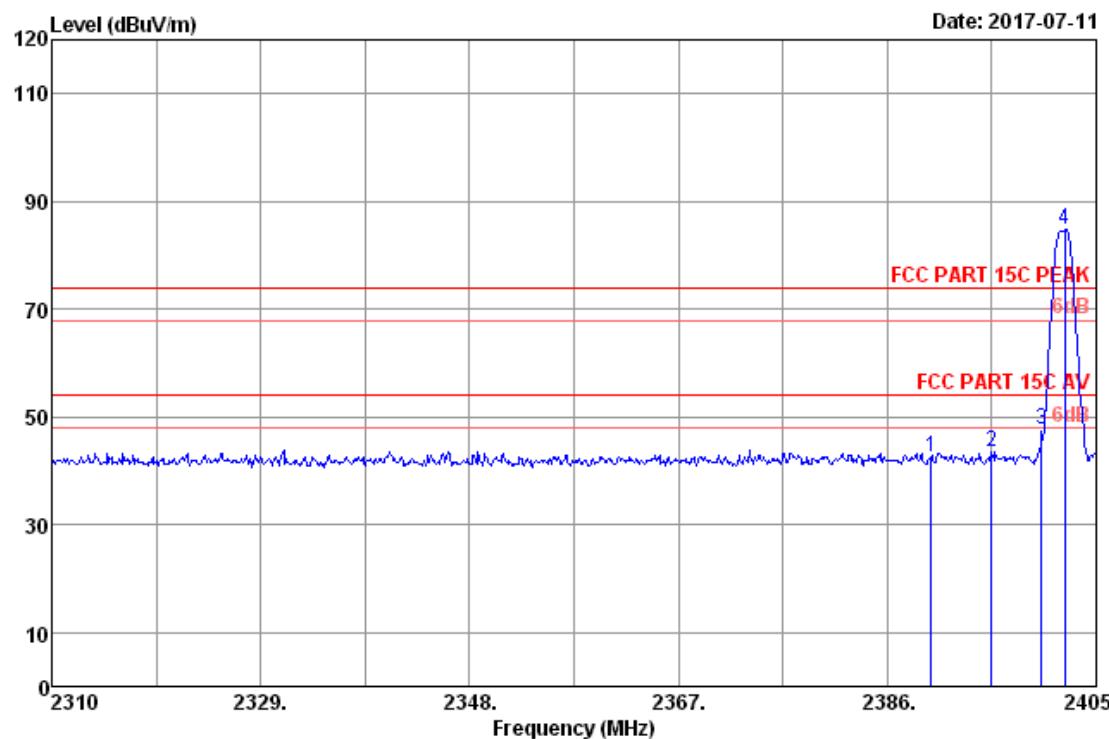
Note: If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.



Site no. : 3m Chamber Data no. : 5
 Dis. / Ant. : 3m 2017 ANT 3007 HF Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Pre : 101.2kPa
 Env. / Ins. : 23.1*C/53.3% Engineer : Garry
 EUT : Cash Register M/N:SPB1-01
 Power : AC 230V/50Hz
 Test Mode : BT4.0 BLE 2402 Tx Mode
 :

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	AMP factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.69	7.84	43.71	36.39	42.85	74.00	31.15	Peak
2	2396.64	27.69	7.88	44.40	36.39	43.58	74.00	30.42	Peak
3	2400.00	27.69	7.88	54.13	36.39	53.31	74.00	20.69	Peak
4	2402.34	27.69	7.88	94.35	36.39	93.53	74.00	-19.53	Peak

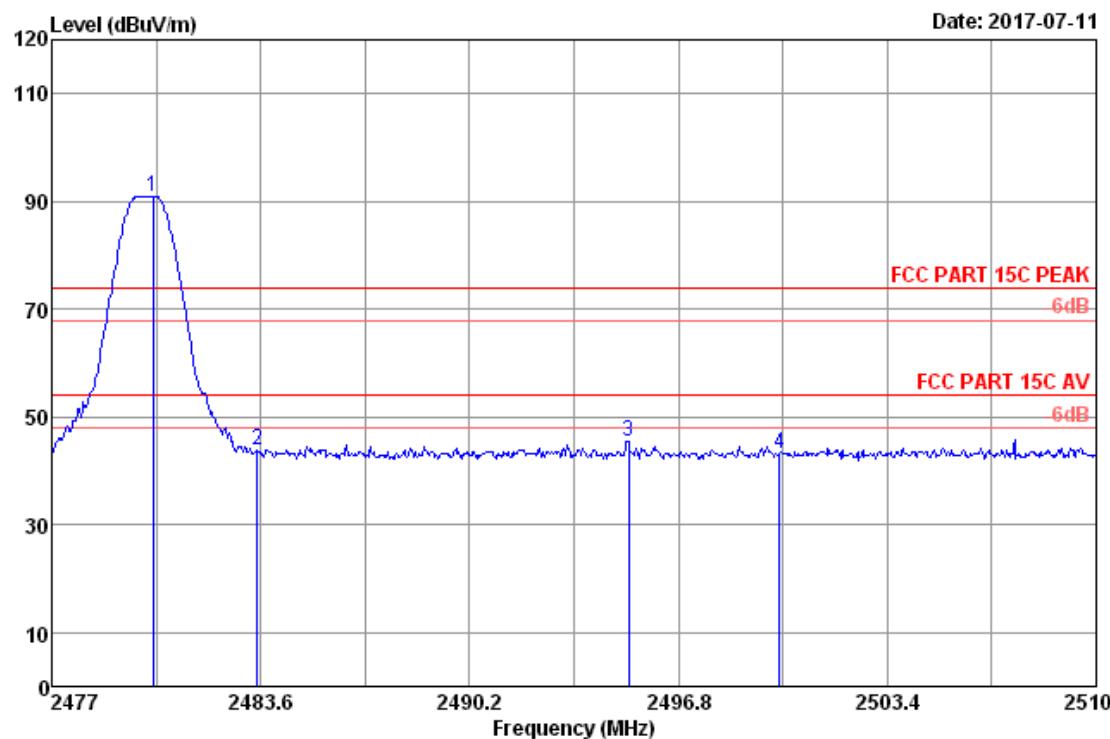
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 2017 ANT 3007 HF Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Pre : 101.2kPa
 Env. / Ins. : 23.1*C/53.3% Engineer : Garry
 EUT : Cash Register M/N:SPB1-01
 Power : AC 230V/50Hz
 Test Mode : BT4.0 BLE 2402 Tx Mode
 :

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	AMP factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.69	7.84	43.56	36.39	42.70	74.00	31.30	Peak
2	2395.50	27.69	7.88	44.29	36.39	43.47	74.00	30.53	Peak
3	2400.00	27.69	7.88	48.49	36.39	47.67	74.00	26.33	Peak
4	2402.15	27.69	7.88	85.48	36.39	84.66	74.00	-10.66	Peak

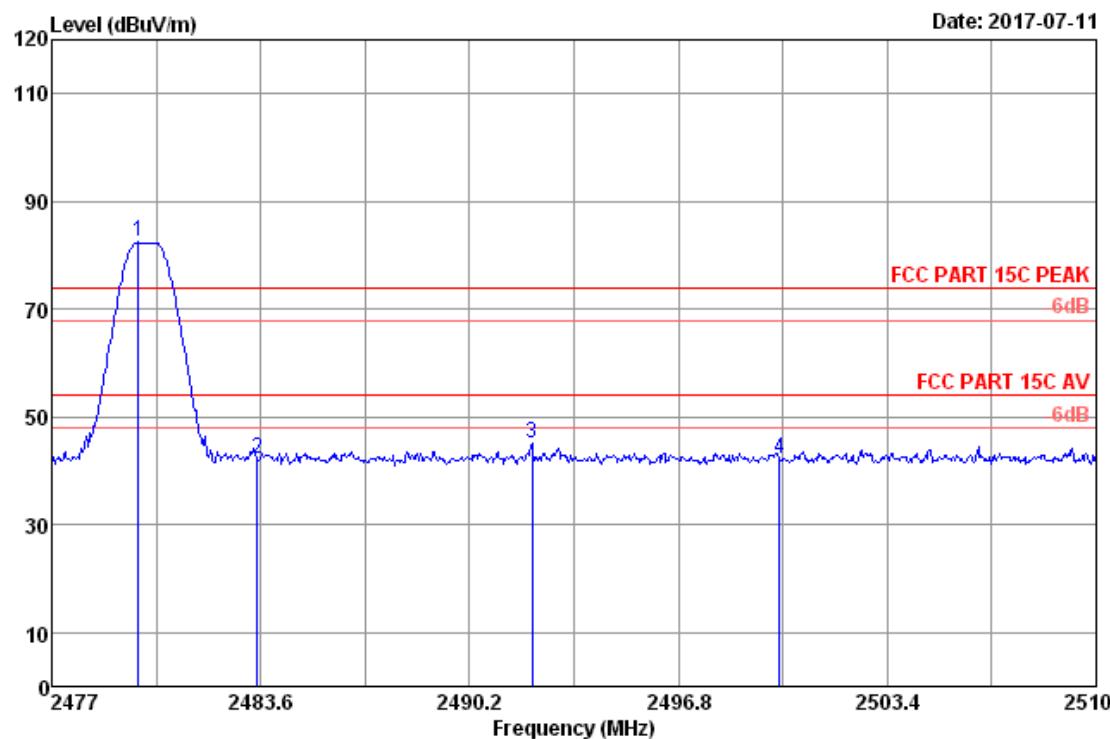
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 15
 Dis. / Ant. : 3m 2017 ANT 3007 HF Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Pre : 101.2kPa
 Env. / Ins. : 23.1*C/53.3% Engineer : Garry
 EUT : Cash Register M/N:SPB1-01
 Power : AC 230V/50Hz
 Test Mode : BT4.0 BLE 2480 Tx Mode
 :

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	AMP factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.20	27.87	8.02	91.49	36.38	91.00	74.00	-17.00	Peak
2	2483.50	27.87	8.02	44.24	36.38	43.75	74.00	30.25	Peak
3	2495.22	27.90	8.05	45.77	36.38	45.34	74.00	28.66	Peak
4	2500.00	27.90	8.05	43.71	36.38	43.28	74.00	30.72	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 16
 Dis. / Ant. : 3m 2017 ANT 3007 HF Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Pre : 101.2kPa
 Env. / Ins. : 23.1*C/53.3% Engineer : Garry
 EUT : Cash Register M/N:SPB1-01
 Power : AC 230V/50Hz
 Test Mode : BT4.0 BLE 2480 Tx Mode
 :

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	AMP factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.74	27.87	8.02	82.90	36.38	82.41	74.00	-8.41	Peak
2	2483.50	27.87	8.02	42.60	36.38	42.11	74.00	31.89	Peak
3	2492.18	27.90	8.05	45.43	36.38	45.00	74.00	29.00	Peak
4	2500.00	27.90	8.05	42.52	36.38	42.09	74.00	31.91	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.

9. POWER SPECTRAL DENSITY TEST

9.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Oct.15,16	1 Year
2.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr.22,17	1 Year
3.	RF Cable	Marvelous Microwave Inc	SFL402105FLEX	NO.1	Oct.15,16	1 Year

9.2. Limit

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.

9.3. Test Procedure

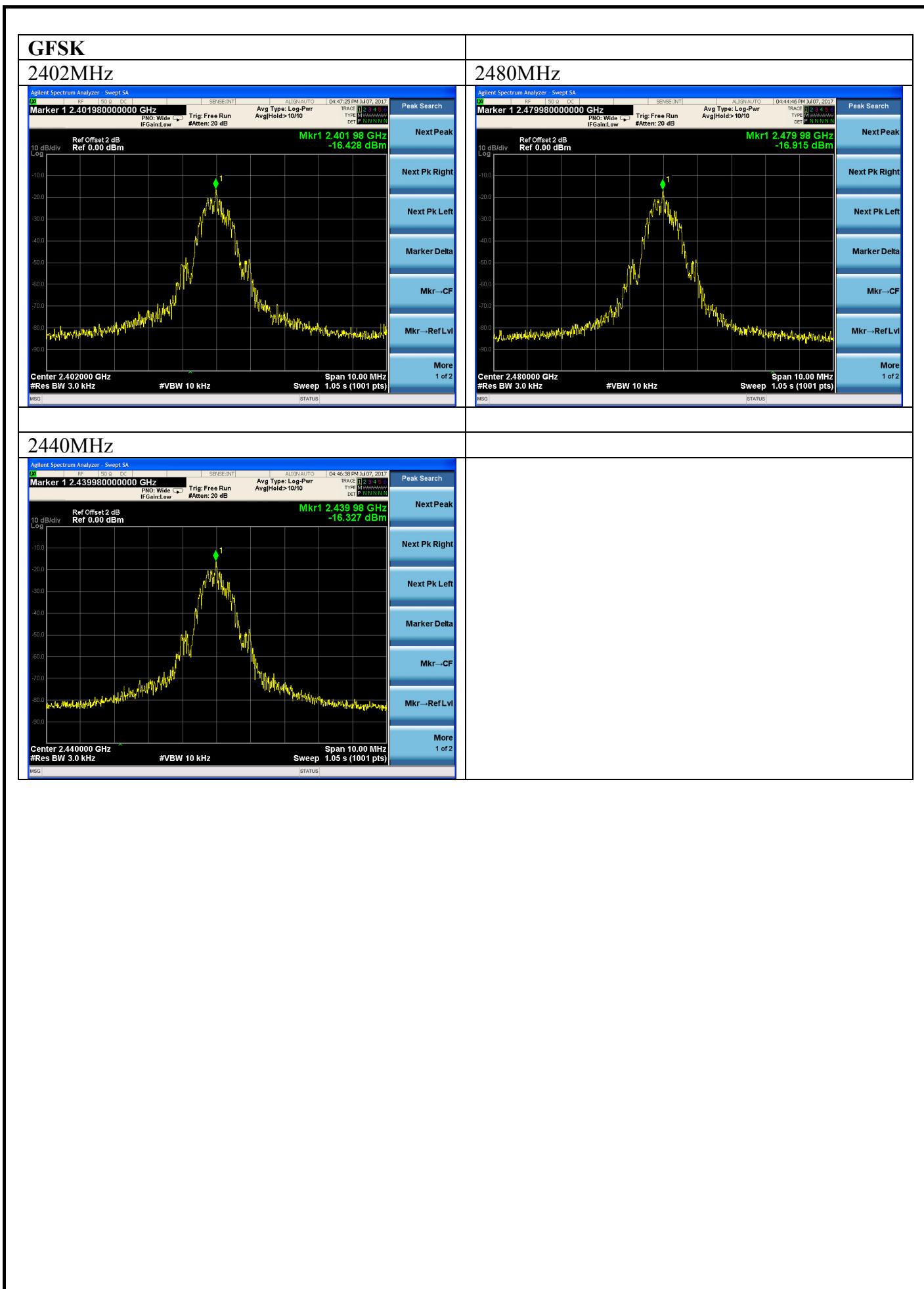
1. Connected the EUT's antenna port to spectrum analyzer device by 20dB attenuator.
2. Set the test frequency as center frequency, Set RBW=3KHz,VBW=10KHz,Span large enough capture the entire frequency, Read out maximum peak level frequency
3. Set the span to 1.5 times of the DTS Bandwidth Detector= Peak; Sweep time= Auto Couple; Trace Mode= Max hold.
4. Allow trace to fully stabilize use the peak marker function to determine the maximum amplitude level within the RBW.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude

9.4. Test Results

EUT: Cash Register		
M/N: SPB1-01		
Test date: 2017-07-07	Pressure: 102.5±1.0 kpa	Humidity: 52.3±3.0%
Tested by: Lynn	Test site: RF site	Temperature:22.1±0.6 °C

Test Mode	Frequency (MHz)	Power density (dBm/3KHz)	Limit (dBm/3KHz)
GFSK	2402	-16.428	8
	2440	-16.327	8
	2480	-16.915	8
Conclusion : PASS			



10. ANTENNA REQUIREMENT

10.1. Standard Applicable

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.

10.2. Antenna Connected Construction

The antennas used for this product are PIFA Antenna that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 2.77dBi.

11. DEVIATION TO TEST SPECIFICATIONS

[NONE]