

FCC CFR47 PART 15 SUBPART C

BLUETOOTH LOW ENERGY

CERTIFICATION TEST REPORT

FOR

GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac & NFC

FCC ID: PY7-PM0941

REPORT NUMBER: 16J22997-E3V2

ISSUE DATE: 4/4/2016

Prepared for

SONY MOBILE COMMUNICATIONS, INC. 4-12-3 Higashi-Shinagawa, Shinagawa-Ku, **TOKYO, 140-0002 JAPAN**

Prepared by

UL VERIFICATION SERVICES INC. 47173 BENICIA STREET FREMONT, CA 94538, U.S.A. TEL: (510) 771-1000

FAX: (510) 661-0888



NVLAP LAB CODE 200065-0

REPORT NO: 16J22997-E3V2 DATE: 4/4/2016 FCC ID: PY7-PM0941

Revision History

Rev.	Issue Date	Revisions	Revised By
V1	3/18/2016	Initial issue	C. OOI
V2	4/4/2016	Update Section 7	J. WU

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11.

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SETUP PHOTOS44

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SONY MOBILE COMMUNICATIONS, INC.

EUT DESCRIPTION: GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac & NFC **SERIAL NUMBER:** CB5129YWFF, CB5129YWGW, CB5129YNPZ, CB5129YNZZ

DATE TESTED: March 7 - 17, 2015

APPLICABLE STANDARDS

STANDARD

TEST RESULTS

CFR 47 Part 15 Subpart C

Pass

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revision section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For UL Verification Services Inc. By:

Prepared By:

CHOON OOI
CONSUMER TECHNOLOGY DIVISION
WISE PROJECT LEAD
UL VERIFICATION SERVICES INC

JEFFREY WU
CONSUMER TECHNOLOGY DIVISION
WISE ENGINEER
UL VERIFICATION SERVICES INC

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013 for FCC, FCC CFR 47 Part 2, and FCC CFR 47 Part 15.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, Fremont, California, USA. Line conducted emissions are measured only at the 47173 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

47173 Benicia Street	47266 Benicia Street	
☐ Chamber A	☐ Chamber D	
☐ Chamber B	☐ Chamber E	
	☐ Chamber F	
	☐ Chamber G	
	☐ Chamber H	

The above test sites and facilities are covered under FCC Test Firm Registration # 208313.

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0.

Chambers A through H are covered under Industry Canada company address code 2324B with site numbers 2324B -1 through 2324B-8, respectively.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) - Preamp Gain (dB)

36.5 dBuV + 18.7 dB/m + 0.6 dB - 26.9 dB = 28.9 dBuV/m

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4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	3.52 dB
Radiated Disturbance, 9KHz to 30 MHz	2.14 dB
Radiated Disturbance, 30 to 1000 MHz	4.98 dB
Radiated Disturbance,1000 to 6000 MHz	3.86 dB
Radiated Disturbance,6000 to 18000 MHz	4.23 dB
Radiated Disturbance,18000 to 26000 MHz	5.30 dB
Radiated Disturbance,26000 to 40000 MHz	5.23 dB

Uncertainty figures are valid to a confidence level of 95%.

DATE: 4/4/2016

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac & NFC.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum peak conducted output power as follows:

Frequency	Mode	Output Power	Output Power
Range		(dBm)	(mW)
(MHz)			
2402-2480	BLE	6.594	4.56

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes intergrated antenna, with a maximum as below:

Frequency (MHz)	Antenna Gain (dBi)
2.402	-7.0
2.441	-6.2
2.480	-6.9

5.4. SOFTWARE AND FIRMWARE

The firmware/SW installed in the EUT during testing was SONY, s_atp_xxxx_1_600_7_9

The hardware version was A

The test utility software used during testing was Tera Term, rev 4.8.3(SVN#5602)

5.5. WORST-CASE CONFIGURATION AND MODE

Radiated emission and power line conducted emission were performed with the EUT set to transmit on the channel with higher output power as worst-case scenario.

The fundamental of the EUT was investigated in three orthogonal orientations X, Y, Z it was determined that X orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in X orientation.

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DESCRIPTION OF TEST SETUP 5.6.

SUPPORT EQUIPMENT

Support Equipment List						
Description Manufacturer Model Serial Number						
AC Adapter	SONY	UCH 20 1295-70821	N/A	N/A		
Earphone	SONY	N/A	N/A	N/A		
DC Power Supplier	Sorensen	XHR60-18	130A01935	N/A		
Laptop	Lenovo	T450	PC-04ACGP	N/A		
Laptop AC Adapter	Lenovo	ADLX65NLC2A	11S45N025971Z9751KU2U	N/A		

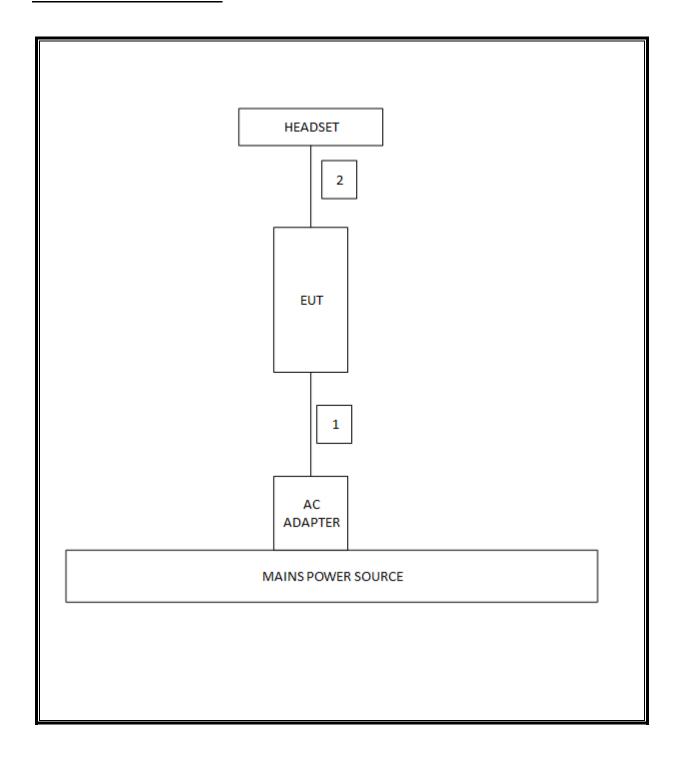
I/O CABLES

	I/O Cable List						
Cable No		# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks	
1	DC Power	1	Mini-USB	Shielded	1.2m	N/A	
2	Audio	1	Mini-Jack	Unshielded	1m	N/A	

TEST SETUP

The EUT is continuously communicating to the Bluetooth tester during the tests. EUT was set in the Hidden menu mode to enable BLE communications.

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment List						
Description	Manufacturer	Model	T Number	Cal Due		
Amplifier, 1-18GHz	Miteq	AFS42-00101800-25-S-42	493	03/09/17		
Amplifier, 1-18GHz	Miteq	AFS42-00101800-25-S-42	1165	07/20/16		
Amplifier, 1-8GHz, 35 dB	Miteq	AMF-4D-01000800-30-29P	1156	03/09/17		
Amplifier, 1-8GHz, 35 dB	Miteq	AMF-4D-01000800-30-29P	1172	07/20/16		
Antenna, Biconolog, 30MHz-1 GHz	Sunol Sciences	JB1	122	01/29/17		
Antenna, Horn, 18GHz	ETS Lindgren	3117	344	02/22/17		
Antenna, Horn, 18GHz	ETS Lindgren	3117	345	02/22/17		
Antenna, Horn, 18GHz	ETS Lindgren	3117	346	02/22/17		
Antenna, Horn, 26.5 GHz	ARA	MWH-1826/B	447	05/12/16		
Bluetooth Tester	Rohde & Schwarz	CBT	258	06/30/16		
ESR7 EMI Test Receiver 7GHz	Rohde & Schwarz	ESR	1436	12/19/16		
High Pass Filter 3GHz	Micro-Tronics	HPS17543	485	03/09/17		
High Pass Filter 3GHz	Micro-Tronics	HPS17543	486	07/20/16		
High Pass Filter 6GHz	Micro-Tronics	HPS17542	483	03/09/17		
High Pass Filter 6GHz	Micro-Tronics	HPS17542	484	07/20/16		
LISN, 30 MHz	FCC	FCC-LISN-50/250-25-2	24	2/9/2017		
Low Pass Filter 5GHz	Micro-Tronics	LPS17541	482	03/09/17		
Low Pass Filter 5GHz	Micro-Tronics	LPS17541	481	07/20/16		
Peak / Average Power Sensor	Keysight	N1921A	750	09/17/16		
Peak Power Meter	Agilent / HP	N1911A	1268	07/06/17		
RF Preamplifier, 1GHz - 18GHz	Miteq	NSP4000-SP2	88	04/07/16		
RF Preamplifier, 1GHz - 26.5GHz	HP	8449B	404	06/29/16		
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	99	06/10/16		
Spectrum Analyzer, PXA, 3 Hz to 44 GHz	Keysight	N9030A	PRE0126762	03/09/17		
Spectrum Analyzer, PXA, 3 Hz to 44 GHz	Keysight	N9030A	PRE0126777	12/21/16		
Spectrum Analyzer, PXA, 3 Hz to 44 GHz	Keysight	N9030A	907	01/06/17		

Test Software List					
Description Manufacturer Model Version					
Radiated Software	UL	UL EMC	Ver 9.5, June 24, 2015		
Conducted Software	UL	UL EMC	Ver 9.5, May 26, 2015		
Antenna Port Software	UL	UL RF	Ver 4.2, Mar 7, 2016		

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7. SUMMARY TABLE

FCC Part Section	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result
15.247 (a)(2)	RSS-247 5.2.1	Occupied Bandwidth (6dB)	>500KHz		Pass
2.1051, 15.247 (d)	RSS-247 5.5	Band Edge / Conducted Spurious Emission	-20dBc	Conducted	Pass
15.247	RSS-247 5.4.4	TX conducted output power	<30dBm	Conducted	Pass
15.247	RSS-247 5.2.2	PSD	<8dBm		Pass
15.207 (a)	RSS-GEN 8.8	AC Power Line conducted emissions	Section 10		Pass
15.205, 15.209, 15.247(d)	RSS-GEN 8.9/7	Radiated Spurious Emission	< 54dBuV/m	Radiated	Pass

8. ANTENNA PORT TEST RESULTS

8.1. ON TIME, DUTY CYCLE

LIMITS

None; for reporting purposes only

PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method

RESULTS

ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time	Period	Duty Cycle	Duty	Duty Cycle	1/T
	В		х	Cycle	Correction Factor	Minimum VBW
	(msec)	(msec)	(linear)	(%)	(dB)	(kHz)
BLE	2.135	2.500	0.854	85.40%	0.69	0.468

DUTY CYCLE PLOTS



8.2. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

The minimum 6 dB bandwidth shall be at least 500 kHz.

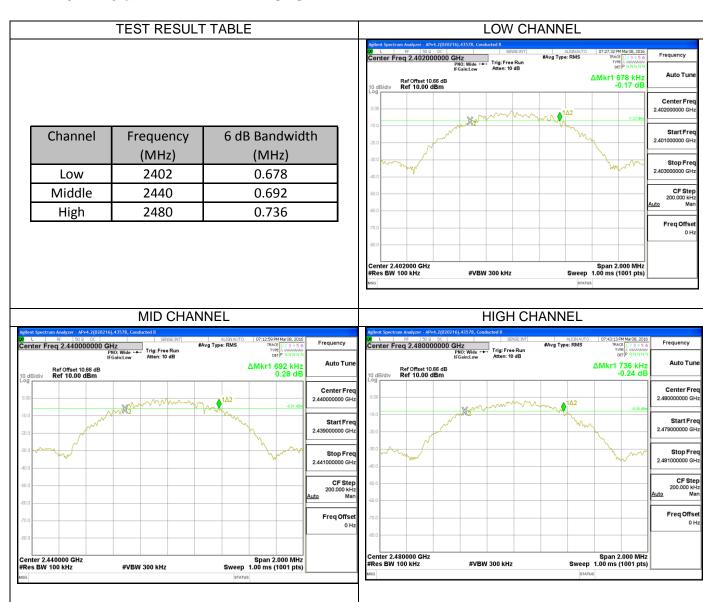
TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The RBW is set to 100 kHz and the VBW is set to 300 kHz. The sweep time is coupled.

DATE: 4/4/2016

RESULTS

8.2.1. 6 dB BANDWIDTH PLOTS AND TABLE



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8.3. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Refer to KDB558074 D01 DTS Meas Guidance v03r04: The transmitter output is connected to the spectrum analyzer. The RBW is set to 1% to 3% of the 99 % bandwidth and to 1% of the span. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

DATE: 4/4/2016

RESULTS

DATE: 4/4/2016

8.3.1. 99% BANDWIDTH PLOTS AND TABLE



8.4. OUTPUT POWER

LIMITS

FCC §15.247 (b)

The maximum antenna gain is less than or equal to 6 dBi, therefore the limit is 30 dBm.

TEST PROCEDURE

Peak power is measured using KDB558074 D01 DTS Meas Guidance v03r04 spectrum analyzer.

DATE: 4/4/2016

RESULTS

8.4.1. OUTPUT POWER PLOTS

	TEST	RESULT TABLE	E		_	LOW CHA	ANNEL		
	_				Agilent Spectrum Analyzer - APv4.2(07002) R L RF S0 Ω DC Center Freq 2.4020000000000000000000000000000000000	SENSE:INT	#AUGNAUTO #Avg Type: RMS Avg Hold>100/100	TRACE 123456 TYPE MWWWWW DET P NNNNN	Auto
Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Margin (dB)	10 dB/div Ref 20.56 dBm	△ 1		4.962 dBm	Cente 2.40200000
Low	2402	4.962	30	-25.04	0.560				Sta
Middle	2440	6.594	30	-23.41	9.44				2.3970000
High	2480	4.414	30	-25.59	-19.4				2.407000
					-39.4				1.000 Auto
					-59.4				Free
					Center 2.402000 GHz	#WPW 2 0 BMJ-	Sween	Span 10.00 MHz 20.0 ms (1001 pts)	
					#Res BW 3.0 MHz	#VBW 3.0 MHz	€ STATE		
Agiient Spectrum Analyz		ID CHANNEL			MSG	HIGH CH	€ state		
RE RECORD	er - APv4.2(020216),45258, Temp A 50 Q DC 40000000 GHz PN0: Fast	SENSE:NIT ALIGNAUTO #Avg Type: RMS rig: Free Run ktten: 20 dB	06-46-30 PM Mar 09, 201 TRACE 1, 23 4 5 TYPE MARKAN CELP THAN 1 12, 439 77 GHz 6, 594 dBm	Auto Tune	Asilent Spectrum Analyzer - APril 2 (2020) A li L	HIGH CHA	ANNEL ALIGNANTO #Avg Type: RMS Avg Held>100/100		Freque
Center Freq 2.4 Ref Offi 10 dB/div Ref 20	er - APv4.2(020216),45258, Temp A 50 0 0C 40000000 GHz PN0: Fast Tigger	SENSE:NIT ALIGNAUTO #Avg Type: RMS rig: Free Run ktten: 20 dB	TRACE 12345 TYPE MYMMMMM DET P NNNN	Auto Tune	Aglient Spectrum Analyzer - APM-1/(0/20) Aglient Spectrum Analyzer - APM-1/(0/20) Aglient Spectrum Analyzer - APM-1/(0/20) Center Freq 2.4800000000 (Center Freq 2.4800000000 (Ref 0ffeet 10.66 dB 10.6 dB/div Ref 20.56 dBm	HIGH CHA	ANNEL ALIGNANTO #Avg Type: RMS Avg Held>100/100	06:4551;PMMr09, 2016 19444 12.3 x 5 6 1948 14444 15.3 x 5 6 1948 14444	Frequei Auto
Center Freq 2.4 10 dB/div Ref 20 10.6 9.44	er - APv4.2(020216),45258, Temp A 50 0 0C 40000000 GHz PN0: Fast Tigger	SENSE:NIT ALIGNAUTO #Avg Type: RMS rig: Free Run ktten: 20 dB	TRACE 12345 TYPE MYMMMMM DET P NNNN	Auto Tune Center Freq	Aniburt Spectrum Analyzur - APN-1 2(0)00 Ref Sp 0 Cc Center Freq 2.480000000 Ref 20.56 dBm 0.590 0.44	HIGH CHA	ANNEL ALIGNANTO #Avg Type: RMS Avg Held>100/100	06:4551;PMMr09, 2016 19444 12.3 x 5 6 1948 14444 15.3 x 5 6 1948 14444	Frequer Auto Cente 2.4800000
Center Freq 2.4 Ref Offi 10 dB/div Ref 20	er - APv4.2(020216),45258, Temp A 50 0 0C 40000000 GHz PN0: Fast Tigger	SENSE:NIT ALIGNAUTO #Avg Type: RMS rig: Free Run ktten: 20 dB	TRACE 12345 TYPE MYMMMMM DET P NNNN	Auto Tune Center Freq 2.440000000 GHz Start Freq 2.435000000 GHz	Addition Spectrum Analyzer = AP-4 2(0707 or AP-4 2007 or AP-4 2(0707 or AP-4 2007 o	HIGH CHA	ANNEL ALIGNANTO #Avg Type: RMS Avg Held>100/100	06:4551;PMMr09, 2016 19444 12.3 x 5 6 1948 14444 15.3 x 5 6 1948 14444	Frequer Auto Cente 2.4800000 Star 2.4750000 Stoj 2.4850000
Center Freq 2.4 Ref Off Ref 2t Log 10.550 3.44 119.4	er - APv4.2(020216),45258, Temp A 50 0 0C 40000000 GHz PN0: Fast Tigger	SENSE:NIT ALIGNAUTO #Avg Type: RMS rig: Free Run ktten: 20 dB	TRACE 12345 TYPE MYMMMMM DET P NNNN	Auto Tune Center Freq 2.44000000 GHz Start Freq 2.435000000 GHz Stop Freq	Adlent Spectrum Analyzer - APv4.2(2070) Of Rt 55 50 0c C Center Freq 2.480000000 0 Ref 20.56 dBm 10.6 0.550 0.444	HIGH CHA	ANNEL ALIGNANTO #Avg Type: RMS Avg Held>100/100	100-45-51 PMMw (09, 2016) THACE 12-4-5-6 THOME 12-4-5-6 THO	Frequer Auto Cente 2.4800000 Stat 2.4750000 Sto) 2.4850000
Center Freq 2.4 Conter Freq 2.4 10 dB/div Ref 20 10 6 550 550 550 550 550 550 550	er - APv4.2(020216),45258, Temp A 50 0 0C 40000000 GHz PN0: Fast Tigger	SENSE:NIT ALIGNAUTO #Avg Type: RMS rig: Free Run ktten: 20 dB	TRACE 12345 TYPE MYMMMMM DET P NNNN	Auto Tune Center Freq 2.440000000 GHz Start Freq 2.43500000 GHz Stop Freq 2.44500000 GHz CF Step 1.000000 MHz	Archert Spectrum Analyze - Affect (2020) R 10 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -	HIGH CHA	ANNEL ALIGNANTO #Avg Type: RMS Avg Held>100/100	100-45-51 PMMw (09, 2016) THACE 12-4-5-6 THOME 12-4-5-6 THO	Frequen Auto Cente 2.48000000 Star 2.47500000 Stop 2.48500000 CF CALCOLUMN CONTROL CONTRO
Center Freq 2.4 10 dB/div Ref 20 10.6 0.550 0.44 39.4	er AP-4 2(000216) 45755, Temp A 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SPACE PITI ADMANTO ANY Type: RMS Avg Type: RMS Avg Hold>100/100 MMk	TRACE 12345 TYPE MYMMMMM DET P NNNN	CenterFreq	Adlent Spectrum Analyzer - APA-1,2(0202) M	HIGH CHA	ANNEL ALIGNAUTO BAV3 Type: RMS Avg Hold>100/100 MKF	100-45-51 PMMw (09, 2016) THACE 12-4-5-6 THOME 12-4-5-6 THO	Frequen Auto Cente 2.48000000 Star 2.475000000 Stoj 2.485000000000000000000000000000000000000

NOTE:

DATE: 4/4/2016

8.5. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a power meter.

RESULTS

The cable assembly insertion loss of 10.6 dB (including 10 dB pad and 0.6 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

Chamal	Frequency	Average Power
Channel	(MHz)	(dBm)
Low	2402	4.36
Middle	2440	6.11
High	2480	3.87

NOTE: --

POWER SPECTRAL DENSITY 8.6.

LIMITS

FCC §15.247 (e)

The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

DATE: 4/4/2016

TEST PROCEDURE

Power Spectral Density was performed utilizing the "Method PKPSD (Peak PSD)" under KDB558074 D01 DTS Meas Guidance v03r04.

RESULTS

8.6.1. POWER SPECTRAL DENSITY PLOTS AND TABLE

	TEST	RESULT TA	BLE				HANNEL		
					Adlent Spectrum Analyze APM-1/0702116), 41575 1	SENSE:INT	#Avg Type: RMS	07:29:12 PMMar 08, 2016 TRACE 17:3 4 5 6 TYPE MANNAN T1 2.401 758 GHz -0.75 dBm	Frequency Auto Tun
Channel	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Margin (dB)	10.0 0.00	1 1 1 mm. n	24.02	\$.00 vB=	Center Fre
	, ,		, ,		-10.0	AMA A MA	Mohand	\	2.401000000 G
Low	2402	-0.75	8	-8.75	-20.0			$\mathcal{M}_{\mathcal{N}}$	Stop Fr 2.403000000 0
Middle	2440	0.08	8	-7.92	-40.0			James 1	CF St 200.000
High	2480	-2.09	8	-10.09	-50.0 hy			Y	Auto I
					-60.0				Freq Of
					-70.0				
								Span 2.000 MHz	
					Center 2.402000 GHz #Res BW 30 kHz #N	/BW 91 kHz		p 2.13 ms (1001 pts)	
	MI	D CHANNE	I				STA	p 2.13 ms (1001 pts)	
ilent Spectrum Analyzer	NPv4.2(020216),43578, Conducted B	D CHANNE				HIGH CI	HANNEL	p 2.13 ms (1001 pts)	
enter Freq 2.440	10.66 dB	D CHANNE SEMENT BAVE TYPE Free Run 1: 20 dB	ALIGN AUTO 07:14:36 PM Ma e: RMS TRACE [1] TYPE M DET P	NNNNN	#Res BW 30 kHz #N #SSS	HIGH CI	HANNEL ALIGNAUT #Avg Type: RMS	p 2.13 ms (1001 pts)	Frequency Auto Tu
enter Freq 2.440	10.66 dB	SENSE:INT #Avg Typ	ALIGN AUTO 07:14:36 PM Ma e: RMS TRACE [1] TYPE M DET P	233.96 Frequency RRNNN 2 GHz Auto Tun dBm Center Fre	#Res BW 30 kHz #1 Motion	HIGH CI	HANNEL ALIGNAUT #Avg Type: RMS	D 2.13 ms (1001 pts) 0 07-41/15-PM May 08, 2016 1 1002 103-41/15 pt 1002 1002 pt 1002	Frequency Auto Tu Center Fr 2.480000000 G
Ref Offset Ref 20.00	10.66 dB	SEISEBITI BAVE TYP	ALISTAUTO 07:14:36 FM Ma	23456 Frequency NNNNN CGHz dBm	#Res BW 30 kHz #1 ##################################	HIGH CI	HANNEL ALONAUT BANG Type: RMS Mk	D 2.13 ms (1001 pts) 0 07-41/15-PM May 08, 2016 1 1002 103-41/15 pt 1002 1002 pt 1002	Center Fr 2.480000000 G
enter Freq 2.440i Ref Offset Ref 20.00	10.66 dB dBm	SEISEBITI BAVE TYP	ALSH AUTO 07:14:35 PM Ms 1 RAGE 1 THE MS THE MS 1 THE MS	Trequency Frequency Freq	#Res BW 30 kHz #1 Mailent Spectrum Analyzer	HIGH CI	HANNEL ALONAUT BANG Type: RMS Mk	D 2.13 ms (1001 pts) 0 07-41/15-PM May 08, 2016 1 1002 103-41/15 pt 1002 1002 pt 1002	Center Fi 2.480000000 G Start Fi 2.479000000 G
menter Freq 2.440i	10.66 dB dBm	SEISEBITI BAVE TYP	ALISTAUTO 07:14:36 FM Ma	Trequency Frequency Freq	#Res BW 30 kHz #1 Mail	HIGH CI	HANNEL ALONAUT BANG Type: RMS Mk	0 074415PMNe 08, 2016 True 0 074415PMNe 08, 2016 Truce	Auto Tu Center Fi 2.480000000 G Start Fi 2.479000000 G
enter Freq 2.440	10.66 dB dBm	SEISEBITI BAVE TYP	ALSH AUTO 07:14:30-PMMs	Prequency Prepared Prepa	#Res BW 30 kHz #1 Mail	HIGH CI	HANNEL ALONAUT BANG Type: RMS Mk	0 074415PMNe 08, 2016 True 0 074415PMNe 08, 2016 Truce	Auto Tu Center F 2.480000000 C Start F 2.479000000 C Stop F 2.481000000 C CF S: 200.000

DATE: 4/4/2016

8.7. CONDUCTED SPURIOUS EMISSIONS

LIMITS

FCC §15.247 (d)

Output power was measured based on the use of a peak measurement, therefore the required attenuation is 20 dB.

DATE: 4/4/2016

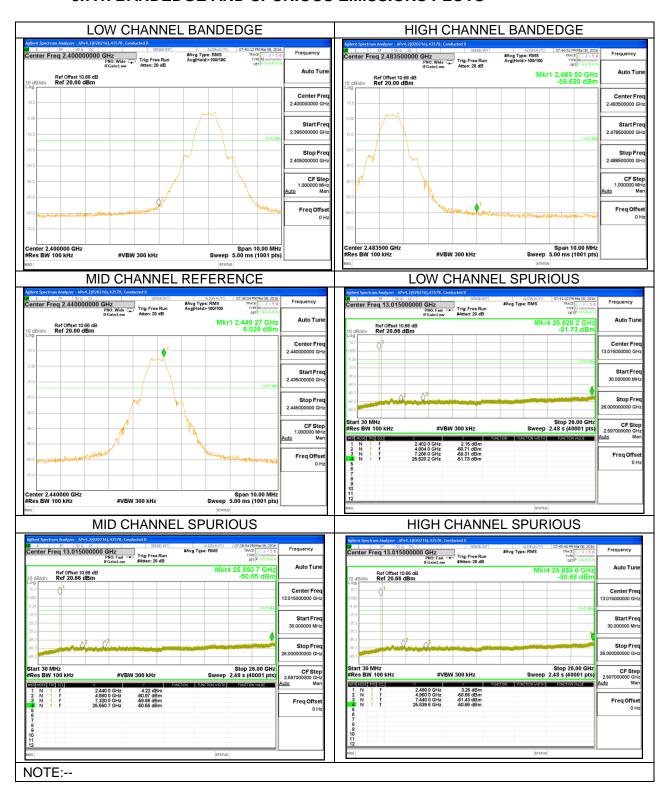
TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

RESULTS

8.7.1. BANDEDGE AND SPURIOUS EMISSIONS PLOTS



9. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1GHz and 150cm for above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and add duty cycle factor for average measurements. Please refer to test report section 8.1 for duty cycle factor information.

The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

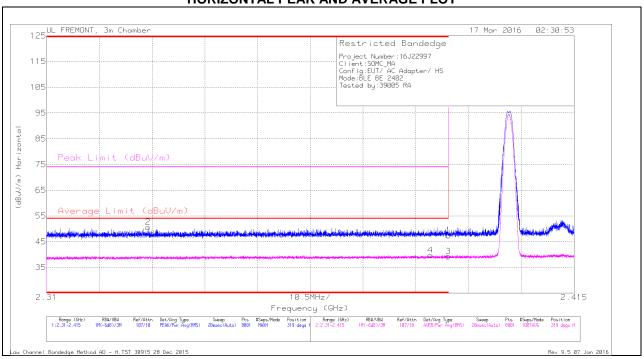
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

RESULTS

9.1. TRANSMITTER ABOVE 1 GHz

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

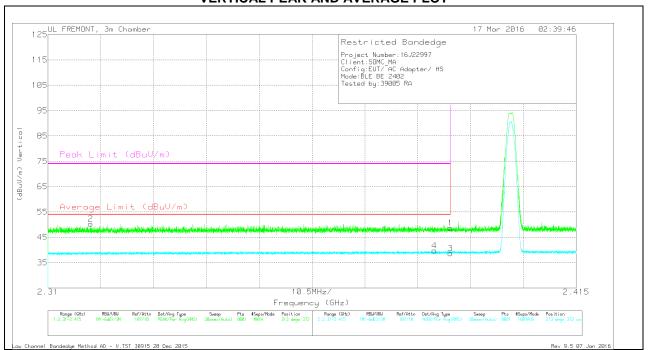
Trace Markers

Marker	Frequency (GHz)	Meter Reading	Det	AF T119 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height	Polarity
	(GHZ)	(dBuV)					(dBuV/m)		(06)		(06)	(Degs)	(cm)	
1	* 2.39	37.62	Pk	32	-22.2	0	47.42	-		74	-26.58	319	327	Н
2	* 2.33	41.23	Pk	31.7	-22.3	0	50.63	-		74	-23.37	319	327	Н
3	* 2.39	28.8	RMS	32	-22.2	.69	39.29	54	-14.71	-	-	319	327	Н
4	* 2.386	29.27	RMS	32	-22.2	.69	39.76	54	-14.24			319	327	Н

^{* -} indicates frequency in CFR15.205/IC 8.10 Restricted Band

Pk - Peak detector

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

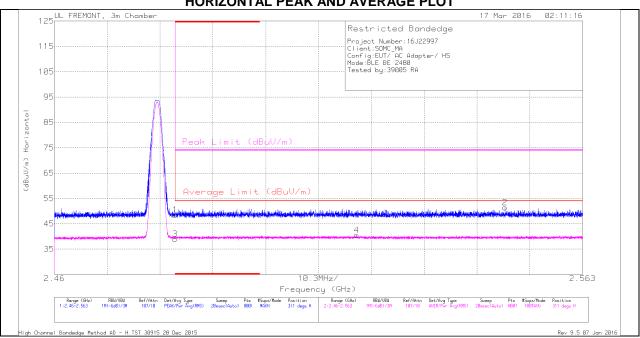
Marker	Frequency	Meter	Det	AF T119 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected	Average Limit (dBuV/m)	Margin	Peak Limit (dBuV/m)	PK Margin	Azimuth	Height	Polarity
	(GHz)	Reading					Reading		(dB)		(dB)	(Degs)	(cm)	
		(dBuV)					(dBuV/m)							
2	2.319	40.75	Pk	31.7	-22.2	0	50.25	-	-	74	-23.75	213	372	٧
4	2.387	29.28	RMS	32	-22.2	.69	39.77	54	-14.23	-	-	213	372	٧
1	2.39	38.82	Pk	32	-22.2	0	48.62	-	-	74	-25.38	213	372	٧
3	2.39	28.17	RMS	32	-22.2	.69	38.66	54	-15.34	-		213	372	V

^{* -} indicates frequency in CFR15.205/IC 8.10 Restricted Band

Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

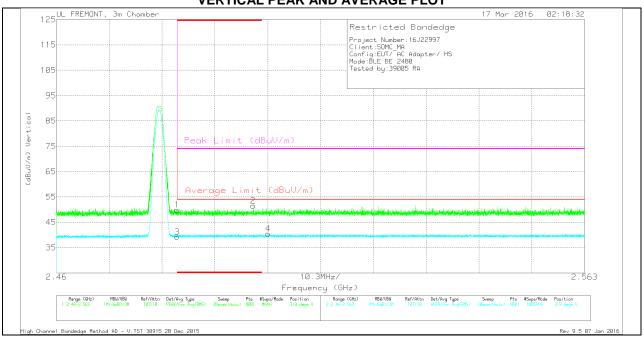
Marker	Frequency	Meter	Det	AF T119 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected	Average Limit (dBuV/m)	Margin	Peak Limit (dBuV/m)	PK Margin	Azimuth	Height	Polarity
	(GHz)	Reading					Reading		(dB)		(dB)	(Degs)	(cm)	
		(dBuV)					(dBuV/m)							
1	* 2.484	38.29	Pk	32.3	-22	0	48.59			74	-25.41	311	309	Н
3	* 2.484	27.98	RMS	32.3	-22	.69	38.97	54	-15.03	-	-	311	309	Н
4	2.519	29.35	RMS	32.3	-21.9	.69	40.44	54	-13.56	-	-	311	309	Н
2	2.548	40.91	Pk	32.4	-21.9	0	51.41	-	-	74	-22.59	311	309	Н

^{* -} indicates frequency in CFR15.205/IC 8.10 Restricted Band

Pk - Peak detector

DATE: 4/4/2016

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

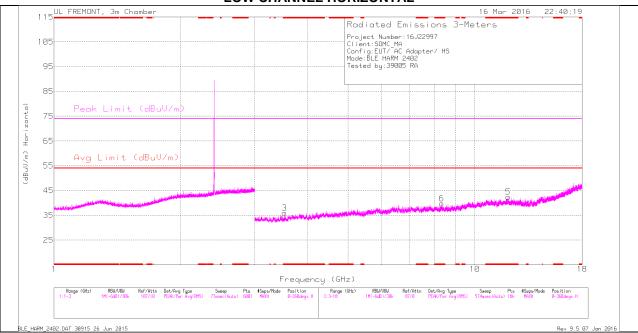
Marker	Frequency	Meter	Det	AF T119 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected	Average Limit (dBuV/m)	Margin	Peak Limit (dBuV/m)	PK Margin	Azimuth	Height	Polarity
	(GHz)	Reading					Reading		(dB)		(dB)	(Degs)	(cm)	
		(dBuV)					(dBuV/m)							
1	* 2.484	39.64	Pk	32.3	-22	0	49.94	-		74	-24.06	319	347	V
2	* 2.498	41.21	Pk	32.3	-22	0	51.51	-		74	-22.49	319	347	V
3	* 2.484	28.2	RMS	32.3	-22	.69	39.19	54	-14.81	-		319	347	V
4	2.501	29.34	RMS	32.3	-21.9	.69	40.43	54	-13.57	-		319	347	V

^{* -} indicates frequency in CFR15.205/IC 8.10 Restricted Band

Pk - Peak detector

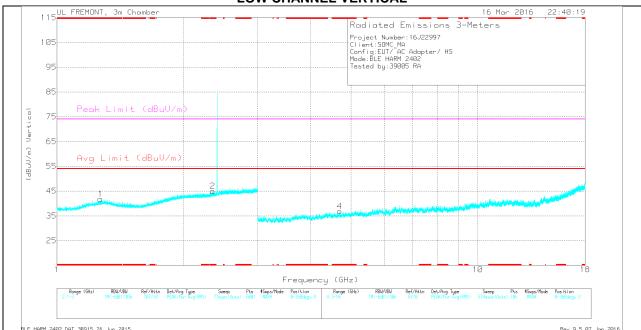
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

REPORT NO: 16J22997–E3V2 DATE: 4/4/2016 FCC ID: PY7–PM0941

LOW CHANNEL DATA

Trace Markers

Marker	Frequency	Meter	Det	AF T119 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected	Avg Limit (dBuV/m)	Margin	Peak Limit (dBuV/m)	PK Margin	Azimuth	Height	Polarity
	(GHz)	Reading (dBuV)					Reading (dBuV/m)		(dB)		(dB)	(Degs)	(cm)	
1	* 1.269	35.45	Pk	29.6	-23.2	0	41.85	-	-	74	-32.15	0-360	200	V
2	* 2.346	35.49	Pk	31.8	-22.3	0	44.99	-	-	74	-29.01	0-360	100	V
3	* 3.534	33.37	Pk	32.8	-30.2	0	35.97		-	74	-38.03	0-360	100	Н
5	* 12.01	26.39	Pk	39.1	-23.1	0	42.39	-	-	74	-31.61	0-360	200	Н
6	* 8.351	29.46	Pk	35.8	-25.5	0	39.76		-	74	-34.24	0-360	200	Н
4	* 4.697	32.59	Pk	34.1	-29.8	0	36.89	-	-	74	-37.11	0-360	200	V

^{* -} indicates frequency in CFR15.205/IC 8.10 Restricted Band

Avg - Video bandwidth < Resolution bandwidth

Radiated Emissions

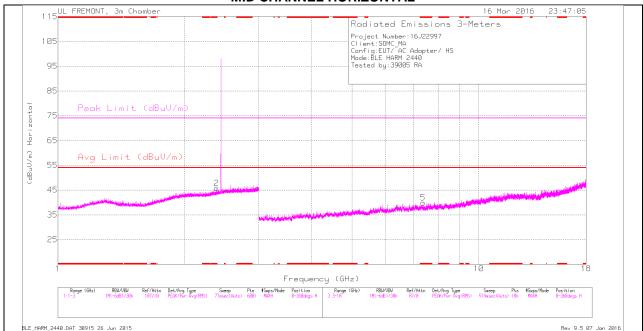
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/ Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.268	40.87	PK2	29.6	-23.2	0	47.27	-	-	74	-26.73	189	192	V
* 1.268	29.02	MAv1	29.6	-23.2	.69	36.11	54	-17.89	-	-	189	192	V
* 2.347	40.67	PK2	31.8	-22.3	0	50.17	-	-	74	-23.83	198	183	V
* 2.346	29.13	MAv1	31.8	-22.3	.69	39.32	54	-14.68	-	-	198	183	V
* 3.534	39.14	PK2	32.8	-30.2	0	41.74	-	-	74	-32.26	323	200	Н
* 3.534	26.41	MAv1	32.8	-30.2	.69	29.7	54	-24.3	-	-	323	200	Н
* 12.01	31.71	PK2	39.1	-23.1	0	47.71	-	-	74	-26.29	300	185	Н
* 12.009	20.86	MAv1	39.1	-23.1	.69	37.55	54	-16.45	-	-	300	185	Н
* 8.351	34.69	PK2	35.8	-25.5	0	44.99	-	-	74	-29.01	286	194	Н
* 8.351	23.5	MAv1	35.8	-25.5	.69	34.49	54	-19.51	-	-	286	194	Н
* 4.698	38.79	PK2	34.1	-29.8	0	43.09	-	-	74	-30.91	260	220	V
* 4.697	27.2	MAv1	34.1	-29.8	.69	32.19	54	-21.81	-	-	260	220	٧

^{* -} indicates frequency in CFR15.205/IC 8.10 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

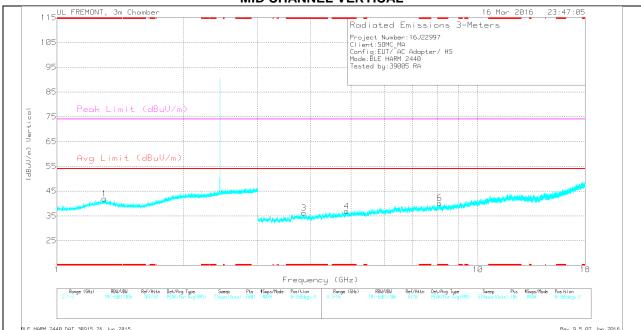
MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

REPORT NO: 16J22997–E3V2 DATE: 4/4/2016 FCC ID: PY7–PM0941

MID CHANNEL DATA

Trace Markers

Marker	Frequency	Meter	Det	AF T119 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected	Avg Limit (dBuV/m)	Margin	Peak Limit (dBuV/m)	PK Margin	Azimuth	Height	Polarity
	(GHz)	Reading (dBuV)					Reading (dBuV/m)		(dB)		(dB)	(Degs)	(cm)	
2	* 2.384	35.88	Pk	32	-22.2	0	45.68		-	74	-28.32	0-360	100	Н
1	* 1.296	35.08	Pk	29.9	-23.1	0	41.88			74	-32.12	0-360	200	V
5	* 7.369	30.79	Pk	35.6	-26.5	0	39.89			74	-34.11	0-360	100	Н
3	* 3.865	33.18	Pk	33.1	-30.1	0	36.18			74	-37.82	0-360	100	V
4	* 4.879	31.7	Pk	34	-28.8	0	36.9		-	74	-37.1	0-360	100	V
6	* 8.112	30.28	Pk	35.7	-25.9	0	40.08	-	-	74	-33.92	0-360	200	V

^{* -} indicates frequency in CFR15.205/IC 8.10 Restricted Band

Avg - Video bandwidth < Resolution bandwidth

Radiated Emissions

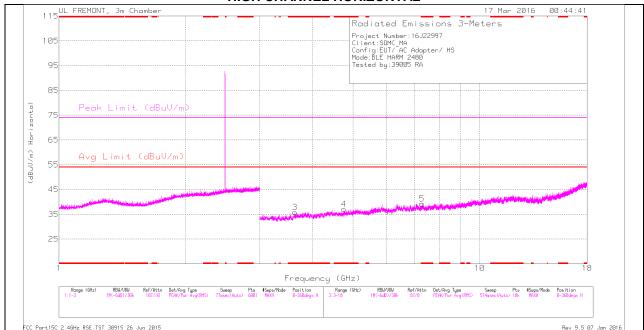
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/ Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.383	41.33	PK2	32	-22.2	0	51.13	-	-	74	-22.87	135	350	Н
* 2.385	28.87	MAv1	32	-22.2	.69	39.36	54	-14.64	-	-	135	350	Н
* 1.296	40.69	PK2	29.8	-23.1	0	47.39	-	-	74	-26.61	209	207	V
* 1.296	29.31	MAv1	29.9	-23.1	.69	36.8	54	-17.2	-	-	209	207	V
* 7.369	36.4	PK2	35.6	-26.5	0	45.5	-	-	74	-28.5	195	180	Н
* 7.368	24.91	MAv1	35.6	-26.6	.69	34.6	54	-19.4	-	-	195	180	Н
* 3.865	39.22	PK2	33.1	-30.1	0	42.22	-	-	74	-31.78	254	230	V
* 3.865	27.76	MAv1	33.1	-30.1	.69	31.45	54	-22.55	-	-	254	230	V
* 4.879	38.32	PK2	34	-28.8	0	43.52	-	-	74	-30.48	111	178	V
* 4.879	26.18	MAv1	34	-28.8	.69	32.07	54	-21.93	-	-	111	178	V
* 8.111	34.69	PK2	35.7	-25.9	0	44.49	-	-	74	-29.51	328	204	V
* 8.114	23.36	MAv1	35.7	-26	.69	33.75	54	-20.25	-	-	328	204	V

^{* -} indicates frequency in CFR15.205/IC 8.10 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

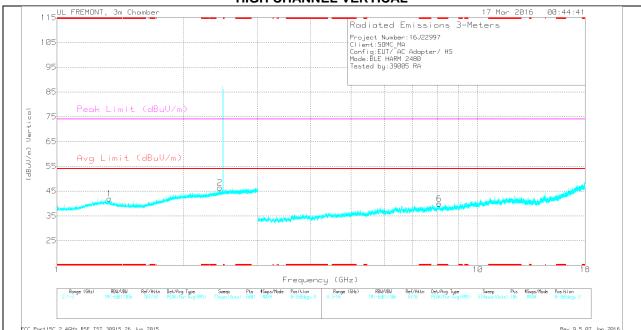
MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.332	35.66	Pk	29.5	-23.2	0	41.96	-		74	-32.04	0-360	100	V
3	* 3.637	33.13	Pk	32.9	-30.2	0	35.83	-	-	74	-38.17	0-360	200	Н
4	* 4.756	32.88	Pk	34	-29.8	0	37.08	-	-	74	-36.92	0-360	100	Н
5	* 7.291	30.7	Pk	35.6	-27.1	0	39.2	-	-	74	-34.8	0-360	100	Н
6	* 8.101	30.06	Pk	35.7	-25.9	0	39.86	-	-	74	-34.14	0-360	100	V
2	2.438	36.39	Pk	32.1	-22.1	0	46.39	-	-		-	0-360	100	V

^{* -} indicates frequency in CFR15.205/IC 8.10 Restricted Band

Avg - Video bandwidth < Resolution bandwidth

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/ Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.332	42.02	PK2	29.5	-23.2	0	48.32	-	-	74	-25.68	296	295	V
* 1.331	28.92	MAv1	29.5	-23.2	.69	35.91	54	-18.09	-	-	296	295	V
* 3.638	39.48	PK2	32.9	-30.2	0	42.18	-	-	74	-31.82	54	254	Н
* 3.638	27.14	MAv1	32.9	-30.2	.69	30.53	54	-23.47	-	-	54	254	Н
* 4.755	38.88	PK2	34	-29.8	0	43.08	-	-	74	-30.92	79	217	Н
* 4.757	27.48	MAv1	34	-29.8	.69	32.37	54	-21.63	-	-	79	217	Н
* 7.29	37.13	PK2	35.6	-27.2	0	45.53	-	-	74	-28.47	239	197	Н
* 7.291	24.97	MAv1	35.6	-27.1	.69	34.16	54	-19.84	-	-	239	197	Н
* 8.102	36.12	PK2	35.7	-25.9	0	45.92	-	-	74	-28.08	189	210	V
* 8.101	23.83	MAv1	35.7	-25.9	.69	34.32	54	-19.68	-	-	189	210	V
2.438	40.89	PK2	32.1	-22.1	0	50.89	-	-	74	-23.11	270	224	V
2.438	29.21	MAv1	32.1	-22.1	.69	39.9	54	-14.1	-	-	270	224	V

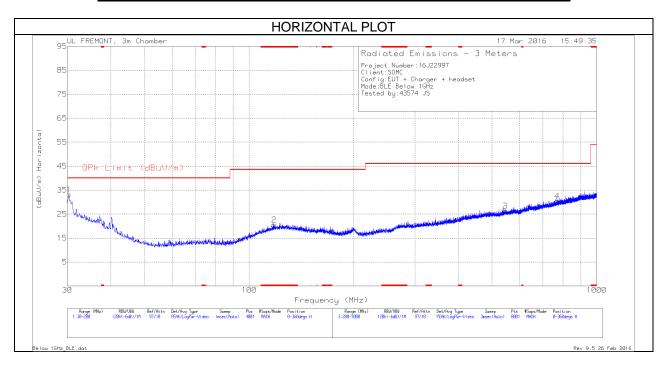
^{* -} indicates frequency in CFR15.205/IC 8.10 Restricted Band

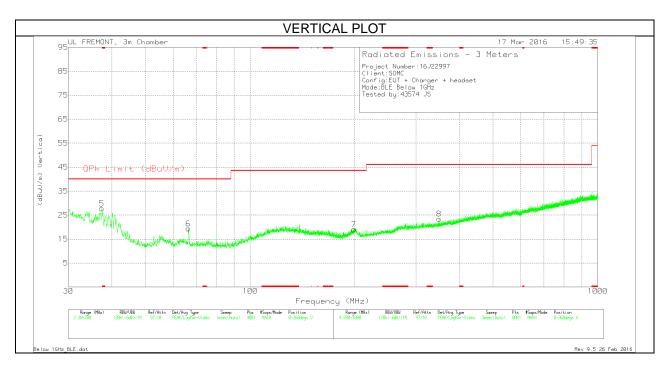
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

9.2. WORST-CASE BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)





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BELOW 1 GHz TABLE

Trace Markers

Marker	Frequency	Meter	Det	AF T122 (dB/m)	Amp/Cbl (dB)	Corrected	QPk Limit (dBuV/m)	Margin	Azimuth	Height	Polarity
	(MHz)	Reading				Reading		(dB)	(Degs)	(cm)	
		(dBuV)				(dBuV/m)					
2	* 118.145	28.97	Pk	17.7	-26.1	20.57	43.52	-22.95	0-360	400	Н
1	30.255	35.22	Pk	25.1	-27.2	33.12	40	-6.88	0-360	200	Н
5	37.4375	35.04	Pk	19.8	-27.1	27.74	40	-12.26	0-360	100	V
6	66.4225	34.27	Pk	11.8	-26.7	19.37	40	-20.63	0-360	100	V
7	198.8525	27.82	Pk	16.4	-25.2	19.02	43.52	-24.5	0-360	100	V
8	349.7	29.74	Pk	18.2	-24.5	23.44	46.02	-22.58	0-360	200	V
3	545.4	28.99	Pk	22.2	-24.9	26.29	46.02	-19.73	0-360	100	Н
4	770.7	29.22	Pk	24.8	-23.6	30.42	46.02	-15.6	0-360	200	Н

^{* -} indicates frequency in CFR15.205/IC 8.10 Restricted Band

Pk - Peak detector

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10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

Frequency of Emission (MHz)	Conducted Limit (dBuV)				
	Quasi-peak	Average			
0.15 – 0.5	66 to 56	56 to 46			
0.5 - 5	56	46			
5 - 30	60	50			

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

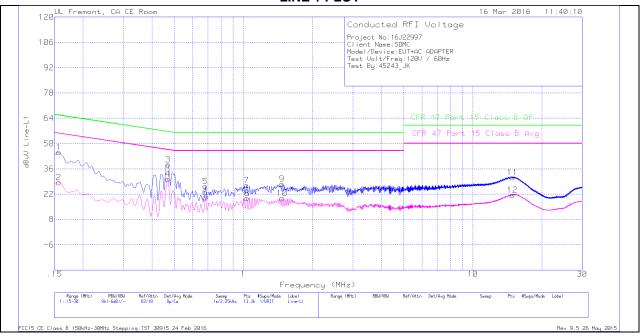
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

6 WORST EMISSIONS





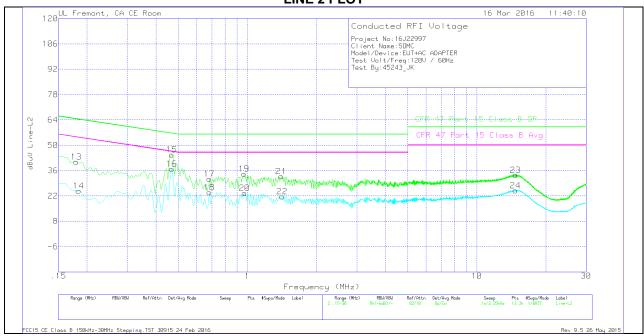
LINE 1 RESULT

Trace Markers

Range	1: Line-L1 .:	15 - 30MH	lz								
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1	LC Cables 1&3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
1	.15675	33.79	Qp	1.3	0	10.1	45.19	65.63	-20.44	-	-
2	.15675	17.07	Ca	1.3	0	10.1	28.47	-	-	55.63	-27.16
3	.4695	27.84	Qp	.4	0	10.1	38.34	56.52	-18.18	-	-
4	.46725	19.89	Ca	.4	0	10.1	30.39	-	-	46.56	-16.17
5	.68325	15.96	Qp	.3	0	10.1	26.36	56	-29.64	-	-
6	.68325	9.68	Ca	.3	0	10.1	20.08	-	-	46	-25.92
7	1.032	16.48	Qp	.3	0	10.1	26.88	56	-29.12	-	-
8	1.03425	9.41	Ca	.3	0	10.1	19.81	-	-	46	-26.19
9	1.47525	17.13	Qp	.2	.1	10.1	27.53	56	-28.47	-	-
10	1.473	9.27	Ca	.2	.1	10.1	19.67	-	-	46	-26.33
11	14.90213	20.6	Qp	.2	.2	10.2	31.2	60	-28.8	-	-
12	14.9055	10.96	Ca	.2	.2	10.2	21.56	-	-	50	-28.44

Pk - Peak detector Av - Average detection

LINE 2 PLOT



LINE 2 RESULT

Trace Markers

Range	2: Line-L2 .	15 - 30MH	łz								
Marker	Frequency	Meter	Det	T24 IL L2	LC Cables	Limiter	Corrected	CFR 47	QP Margin	CFR 47	Av(CISPR)
	(MHz)	Reading			2&3	(dB)	Reading	Part 15	(dB)	Part 15	Margin
		(dBuV)					dBuV	Class B QP		Class B Avg	(dB)
13	.17925	29.41	Qp	1.2	0	10.1	40.71	64.52	-23.81	-	-
14	.18375	13.59	Ca	1.1	0	10.1	24.79	-	-	54.31	-29.52
15	.46725	34.24	Qp	.4	0	10.1	44.74	56.56	-11.82	-	-
16	.46725	26.41	Ca	.4	0	10.1	36.91	-	-	46.56	-9.65
17	.68325	20.93	Qp	.3	0	10.1	31.33	56	-24.67	-	-
18	.68325	13.49	Ca	.3	0	10.1	23.89	-	-	46	-22.11
19	.96675	23.73	Qp	.3	0	10.1	34.13	56	-21.87	-	-
20	.97125	13.18	Ca	.3	0	10.1	23.58	-	-	46	-22.42
21	1.40325	22.51	Qp	.2	0	10.1	32.81	56	-23.19	-	-
22	1.41675	11.29	Ca	.2	.1	10.1	21.69	-	-	46	-24.31
23	14.7435	22.81	Qp	.2	.2	10.2	33.41	60	-26.59	-	-
24	14.7435	14.41	Ca	.2	.2	10.2	25.01	-	-	50	-24.99

Pk - Peak detector

Av - Average detection