

**COMPLIANCE WORLDWIDE INC.
TEST REPORT 227-18**

**In Accordance with the Requirements of
Federal Communications Commission CFR Title 47
Part 15.249, Subpart C
Industry Canada RSS 210, Issue 9**

**Low Power License-Exempt Radio Communication Devices
Intentional Radiators**

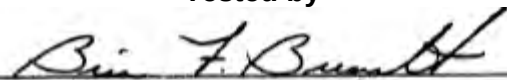
**Issued to
Mobius Mobility, LLC
340 Commercial Street
Manchester, NH 03101**

**for the
Next Generation iBOT BLE Radio
Model Number: iBOT**

FCC ID: 2APOL22007

Report Issued on June 1, 2018

Tested by


Brian F. Breault

Reviewed by


Larry K. Stilling

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1. Scope

This test report certifies that the Mobius Mobility Model iBOT, as tested, meets the FCC Part 15, Subpart C and Industry Canada RSS 210, Issue 9 requirements. The scope of this test report is limited to the test sample provided by the client, only in as much as that sample represents other production units. If any significant changes are made to the unit, the changes shall be evaluated and a retest may be required.

2. Product Details

- 2.1. Manufacturer:** Mobius Mobility, LLC
- 2.2. Model Number:** iBOT
- 2.3 Serial Number:** N/A
- 2.4 Description of EUT:** Joystick control module for the iBOT product operating at 2.4 GHz using BLE
- 2.5 Power Source:** 15 VDC (via Lab Power Supply) used in place of battery power
- 2.6 Hardware Revision:**
- 2.7 Software Revision:**
- 2.8. Modulation Type:** GFSK
- 2.9. Operating Frequency:** 2402-2480 MHz
- 2.10. EMC Modifications:** None

3. Product Configuration

3.1. EUT Hardware

Manufacturer	Model	Serial Number	Input Volts	Frq (Hz) Or DC	Description/Function
Mobius Mobility	iBOT		15	DC	

3.2. Support Equipment

Device	Manufacturer	Model	Serial No.	Comment
Laptop Computer	Dell	Latitude E5470	27038846486	BLE Radio Configuration
Power Supply	Keysight	E3634A	MY57086288	DC Power for EUT
USB to UART Serial Adapter				

3.3. Cables

Cable Type	Length	Shield	From	To
USB Cable	2M	Yes	EUT	USB/UART Adapter
Power Cable	10M	No	EUT	DC Power Supply

3. Product Configuration (continued)

3.4. Operational Characteristics & Software

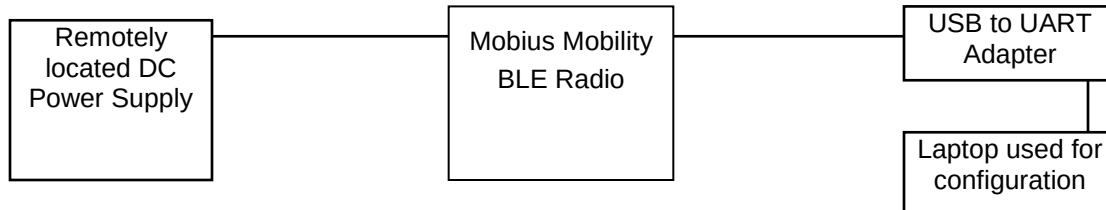
Apply 15 VDC to the power cables via the Laboratory DC Supply.

Connect the Lenovo Laptop to the USB/UART Adapter.

Using the Nordic Direct Test mode Software, set the EUT for transmitting a continuous modulated waveform on the Low, Middle and High channels used by the EUTs BLE Radio.

3. Product Configuration (continued)

3.5. Block Diagram



4. Measurements Parameters

4.1. Measurement Equipment Used to Perform Test

Device	Manufacturer	Model No.	Serial No.	Cal Due	Interval
EMI Test Receiver, 9kHz - 7GHz ¹	Rohde & Schwarz	ESR7	101156	7/23/2018	3 Years
Spectrum Analyzer 20 Hz – 40 GHz ²	Rohde & Schwarz	FSV40	100899	7/23/2018	3 Years
Spectrum Analyzer, 9 kHz - 40 GHz ³	Rohde & Schwarz	FSVR40	100909	5/3/2019	2 Years
Spectrum Analyzer, 2 Hz - 26 GHz ⁴	Rohde & Schwarz	FSW26	102057	12/7/2018	2 Years
EMI Receiver	Hewlett Packard	8546A	3650A00360	12/6/2018	3 Years
Passive Loop Antenna, 9 kHz to 30 MHz	EMCO	6512	9309-1139	10/26/2018	2 Years
Biconilog Antenna, 30 MHz to 2 GHz	Sunol Sciences	JB1	A050913	6/3/2019	2 Years
Horn Antenna 1 to 18 GHz	ETS-Lindgren	3117	00143292	2/22/2019	3 Years
Horn Antenna, 18 GHz to 40 GHz	Com-Power	AH-840	3075	10/11/2018	2 Years
Preamplifier, 1 GHz to 26.5 GHz	Hewlett Packard	8449B	3008A00329	7/22/2018	3 Years
Preamplifier 18 to 40 GHz	Avantek	AWT-40039	FM22038832	6/2/2018	1 Year
LISN 50 ohm 50 μH, 9 kHz to 30 MHz	EMCO	3825/2	9109-1860	11/17/2018	1 Year
2.4 GHz Band Reject Filter	Micro-Tronics	BRM50702	150	1/23/2019	1 Year
EMI Receiver, 9 kHz to 6.5 GHz	Hewlett Packard	8546A	3330A00115	12/4/2018	2 Years
Digital Barometer	Control Company	4195	ID236	10/8/2018	2 Years

¹ ESR7 Firmware revision: V3.36, SP2 Date installed: 11/02/2017 Previous V3.36, installed 05/16/2017.
² FSV40 Firmware revision: V2.30 SP4, Date installed: 05/04/2016 Previous V2.30 SP1, installed 10/22/2014.
³ FSVR40 Firmware revision: V2.23 SP1, Date installed: 08/19/2016 Previous V2.23, installed 10/20/2014.
⁴ FSW26 Firmware revision: V2.80, Date installed: 10/28/2017 Previous V2.61, installed 04/04/2017.

Manufacturer	Software Description	Title or Model #	Rev.	Report Sections
Compliance Worldwide	Test Report Generation Software	Test Report Generator	1.0	Used to process conducted emissions data

4. Measurements Parameters (continued)

4.2. Measurement & Equipment Setup

Test Dates:	5/10/2018, 5/29/2018, 6/1/2018
Test Engineers:	Larry Stillings
Normal Site Temperature (15 - 35°C):	21.2
Relative Humidity (20 -75%RH):	35
Frequency Range:	32 kHz to 25 GHz
Measurement Distance:	3 Meters
EMI Receiver IF Bandwidth:	120 kHz - 30 MHz to 1 GHz 1 MHz - Above 1 GHz
EMI Receiver Average Bandwidth:	300 kHz - 30 MHz to 1 GHz 3 MHz - Above 1 GHz
Detector Function:	Peak, Quasi-Peak & Average

4.3. Measurement Procedure

Test measurements were made in accordance FCC Part 15.249, IC RSS-210 B.10: Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz, 5725 - 5875 MHz, and 24.0 - 24.25 GHz.

The test methods used to generate the data in this test report are in accordance with ANSI C63.10: 2013, American National Standard for Testing Unlicensed Wireless Devices.

4.4. Choice of Operating Frequencies

Low Channel	37	2402 MHz
Middle Channel	17	2440 MHz
High Channel	39	2480 MHz

4.5. EUT Positions for Emissions Measurements

In accordance with ANSI C63.10-2013, Section 5.10.1; a portable or small unlicensed wireless device shall be placed on a non-metallic test fixture or other non-metallic support during testing. The supporting fixture shall permit orientation of the EUT in each of three orthogonal positions such that emissions from the EUT are maximized.

X Axis	Light is facing left. Switch is facing up.	Bottom of the unit is facing the antenna at 0° azimuth.
Y Axis	Light is facing up. Switch is facing right.	Bottom of the unit is facing the antenna at 0° azimuth.
Z Axis	Bottom is down. Switch is facing right.	Light is facing the antenna at 0° azimuth.



X-Axis

Y-Axis

Z-Axis

5. Measurement Summary

Test Requirement	FCC Requirement	ISED Requirement	Test Section	Result	Comment
Antenna Requirement	15.203	RSS-GEN 6.7	6.1	Compliant	
Radiated Field Strength of Fundamental	15.249 (a),(c)	RSS-210 B.10	6.2	Compliant	
Radiated Field Strength of Harmonics	15.249 (a),(c)	RSS-210 B.10	6.3	Compliant	
Fixed, Point-to-Point Operation	15.249 (b)	N/A	---	Not Required	
Band Edge Measurements	15.249 (d) 15.209	N/A	6.4	Compliant	
Spurious Radiated Emissions	15.249 (d), 15.209	RSS-210 B.10	6.5	Compliant	
Occupied Bandwidth 26 dB	ANSI C63.4 § 13.1.7	N/A	6.6	Compliant	
99% Bandwidth	N/A	RSS-GEN 6.6	6.7	Compliant	
AC Power Line Conducted Emissions	15.207	RSS-GEN 8.8	6.8	N/A	EUT is battery powered
RF Safety	2.1093 1.1307 (b)(1))	RSS-102 Issue 5	6.9	Compliant	

6. Measurement Data

6.1. Antenna Requirement (Section 15.203, RSS-GEN, Issue 4)

Requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section.

Result: The unit under test employs a permanent, non-user accessible etch antenna.

6.2. Radiated Field Strength of Fundamental (15.249, Section (a), (c)), IC RSS-210 B.10

Requirement: The 3 meter field strength of the fundamental emissions from intentional radiators operating within the 2400 – 2483.5 MHz frequency band shall comply with the following requirement: 50 millivolts/meter (94 dB μ V/m) average mode measurement and 500 millivolts/meter (114 dB μ V/m) peak mode measurement.

Frequency (MHz)	Amplitude ¹ (dB μ V/m) at 3 Meters		Limit (dB μ V/m) at 3 Meters		Margin (dB μ V/m) at 3 Meters		Ant Polarity	Ant Height	Turntable Azimuth	Result
	Peak	Average ²	Peak	Average	Peak	Average	H/V	cm	Deg	
2402	82.57	76.79	114.00	94.00	-31.43	-17.21	V	155	247	Compliant
2440	85.78	80.02	114.00	94.00	-28.22	-13.98	V	177	246	Compliant
2480	85.48	79.62	114.00	94.00	-28.52	-14.38	V	156	244	Compliant

¹ All correction factors are included in measurement values.

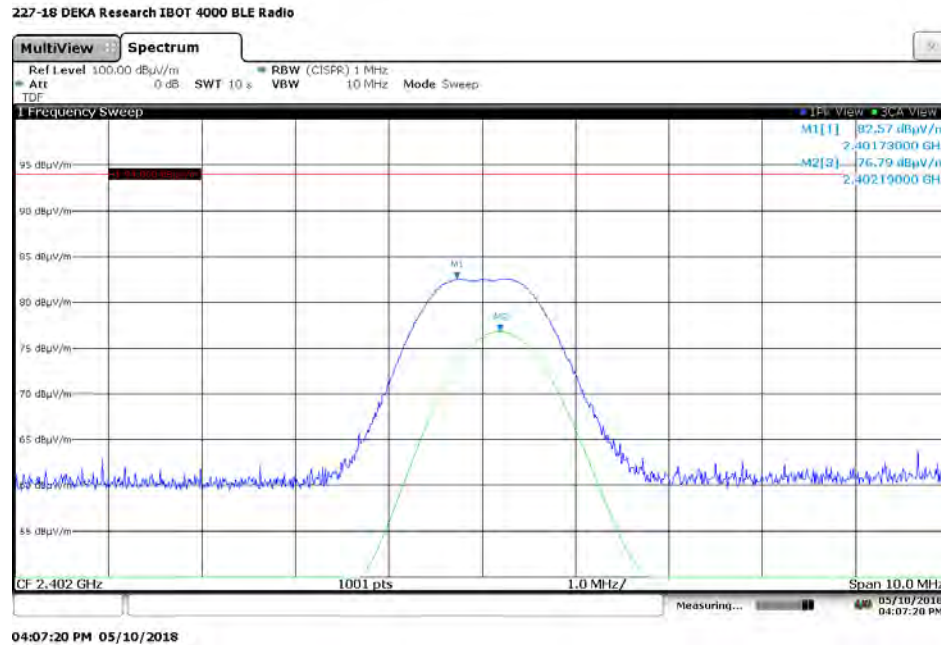
Test Number: 227-18

Issue Date: 6/1/2018

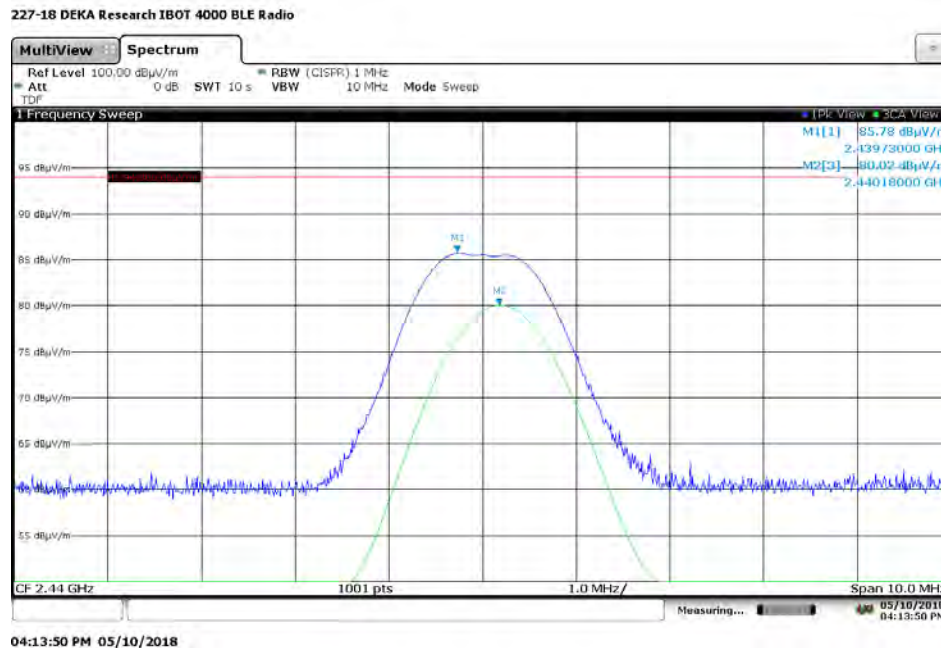
6. Measurement Data (continued)

6.2. Radiated Field Strength of Fundamental (15.249, Section (a), (c)), IC RSS-210 B.10

6.2.1. Radiated Field Strength of Fundamental – Channel 37



6.2.2. Radiated Field Strength of Fundamental – Channel 17



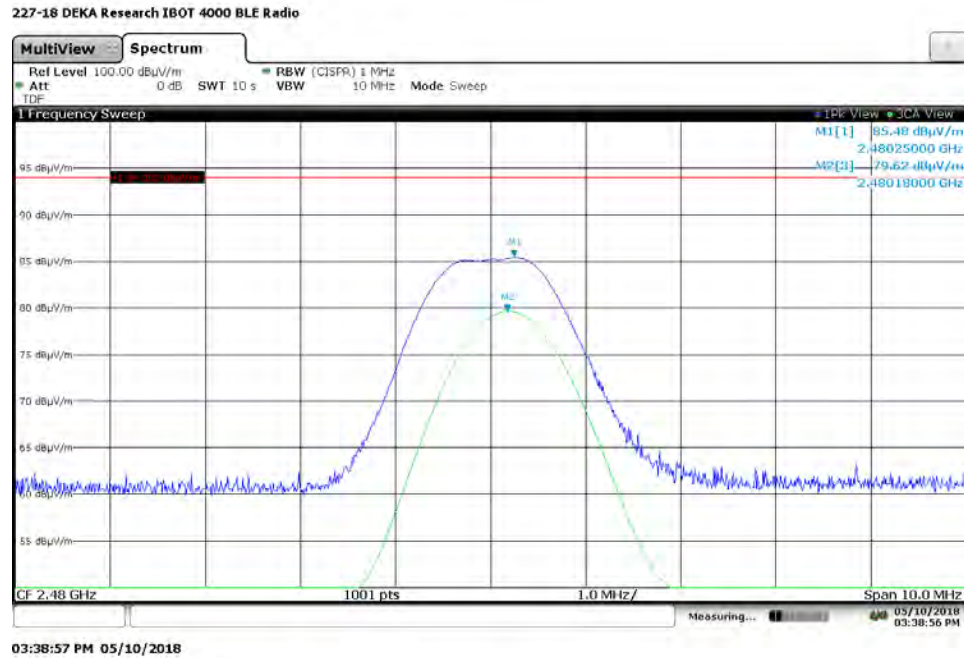
Test Number: 227-18

Issue Date: 6/1/2018

6. Measurement Data (continued)

6.2. Radiated Field Strength of Fundamental (15.249, Section (a), (c)), IC RSS-210 B.10

6.2.3. Radiated Field Strength of Fundamental – Channel 39



6. Measurement Data (continued)

6.3. Radiated Field Strength of Harmonics (15.249, Section (a)), IC RSS-210 B.10

Requirement: The 3 meter field strength of the harmonic emissions from intentional radiators operated within the 2400 to 2483.5 MHz frequency bands shall comply with the following: 500 microvolts/meter (54 dB μ V/m), average mode measurement. Peak field strength may not be greater than 20 dB above the average limit (74 dB μ V/m).

Test Results : Compliant

Notes: All correction factors are included in the field strength values. The tabled values represent the worst case antenna polarity and orthogonal position of the DUT.

Freq. (MHz)	Field Strength (dB μ V/m)		Limit (dB μ V/m)		Margin (dB μ V/m)		Antenna Polarity (H/V)	Result
	Peak	Average	Peak	Average	Peak	Average		
4804	50.98	37.33	74.00	54.00	-23.02	-16.67	H	Compliant
4882	49.95	36.86	74.00	54.00	-24.05	-17.14	V	Compliant
4960	51.25	38.46	74.00	54.00	-22.75	-15.54	H	Compliant
7206	53.38	39.77	74.00	54.00	-20.62	-14.23	H	Compliant
7323	53.61	39.77	74.00	54.00	-20.39	-14.23	V	Compliant
7440	53.97	39.20	74.00	54.00	-20.03	-14.80	V	Compliant
9608	56.49	42.08	74.00	54.00	-17.51	-11.92	H	Compliant
9764	56.61	42.75	74.00	54.00	-17.39	-11.25	H	Compliant
9920	56.09	41.74	74.00	54.00	-17.91	-12.26	H	Compliant
12010	59.37	46.50	74.00	54.00	-14.63	-7.50	H	Compliant
12205	60.55	46.48	74.00	54.00	-13.45	-7.52	V	Compliant
12400	60.95	46.71	74.00	54.00	-13.05	-7.29	H	Compliant
14412	61.82	47.43	74.00	54.00	-12.18	-6.57	H	Compliant
14646	63.24	48.98	74.00	54.00	-10.76	-5.02	H	Compliant
14880	63.16	48.64	74.00	54.00	-10.84	-5.36	H	Compliant
16814	62.39	48.26	74.00	54.00	-11.61	-5.74	V	Compliant
17087	61.86	48.41	74.00	54.00	-12.14	-5.59	V	Compliant
17360	62.32	48.63	74.00	54.00	-11.68	-5.37	H	Compliant
19216	63.14	48.66	74.00	54.00	-10.86	-5.34	H	Compliant
19528	62.11	48.08	74.00	54.00	-11.89	-5.92	H	Compliant
19840	61.92	47.54	74.00	54.00	-12.08	-6.46	V	Compliant
21618	63.33	48.90	74.00	54.00	-10.67	-5.10	V	Compliant
21969	63.73	49.48	74.00	54.00	-10.27	-4.52	H	Compliant
22320	64.93	50.57	74.00	54.00	-9.07	-3.43	V	Compliant
24020	62.37	48.66	74.00	54.00	-11.63	-5.34	H	Compliant
24410	62.74	48.78	74.00	54.00	-11.26	-5.22	H	Compliant
24800	63.39	48.84	74.00	54.00	-10.61	-5.16	V	Compliant

6. Measurement Data (continued)

6.4. Band Edge Measurements

Requirement: Emissions radiated outside of the specified frequency band of 2400 to 2483.5 MHz, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Test Note: The upper band edge peak mode measurement meets the FCC Part 15, Section 15.209 peak and average (54 dB μ V/m) requirement.

Band Edge Measurements - Lower and Upper Band Edge

Frequency (MHz)		Band Edge (dB μ V/m)			Part 15.209 Limit (dB μ V/m)		Margin (dB μ V/m)		Result
		Freq MHz	Peak	Average	Peak	Average	Peak ¹	Average	
2402	Lower	2400	61.70	47.39	74	54	-12.30	-6.61	Compliant
2480	Upper	2483.5	61.53	47.87	74	54	-12.47	-6.13	Compliant

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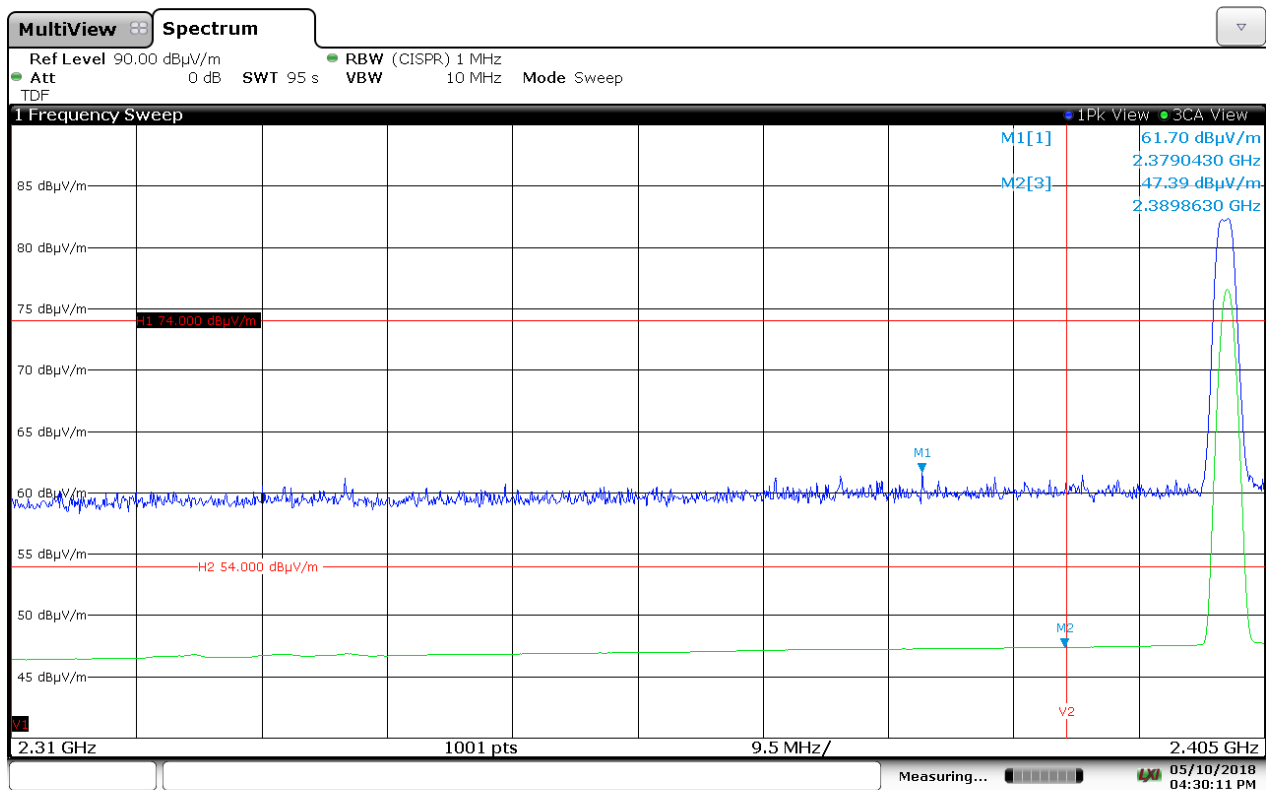
6. Measurement Data (continued)

6.4. Band Edge Measurements (continued)

6.4.1. Band Edge Measurements - Lower Band Edge

6.4.1.1. 2310 to 2405 MHz

227-18 DEKA Research IBOT 4000 BLE Radio



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Test Number: 227-18

Issue Date: 6/1/2018

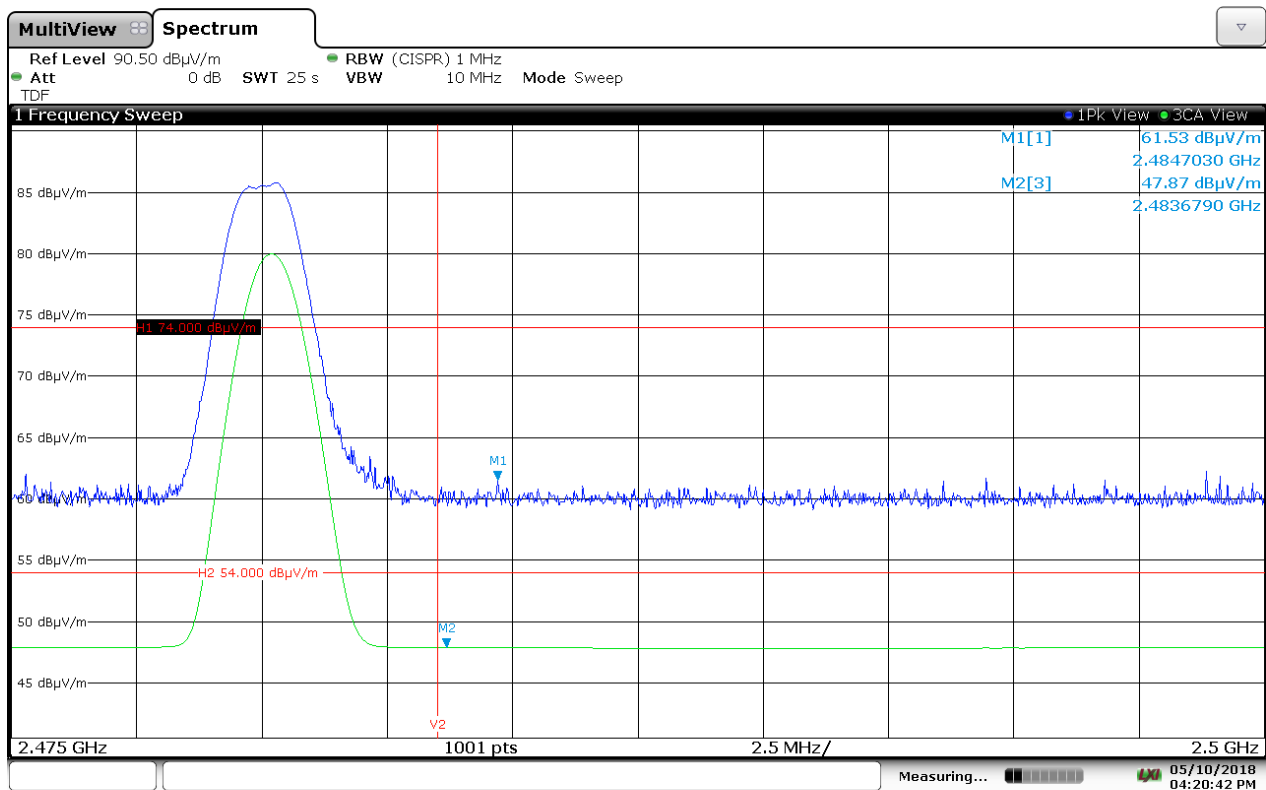
6. Measurement Data (continued)

6.4. Band Edge Measurements (continued)

6.4.2. Band Edge Measurements - Upper Band Edge

6.4.2.1. 2475 to 2500 MHz

227-18 DEKA Research IBOT 4000 BLE Radio



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6. Measurement Data (continued)
6.5. Spurious Radiated Emissions, 32 kHz to EUT 10th Harmonic (15.249, Section (d)), IC RSS-GEN, Issue 4

Requirement: Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Test Notes: Details of the spurious emissions measurements are located in Appendix A beginning on page 34.

The lowest frequency generated by the device under test is 32.768 kHz.

6.5.1. Regulatory Limit: FCC Part 209, Quasi-Peak & Average

Frequency Range (MHz)	Distance (Meters)	Limit (dBμV/m)
0.009 to 0.490	3	128.5 to 93.8
0.490 to 1.705	3	73.8 to 63
1.705 to 30	3	69.5
30 to 88	3	40.0
88 to 216	3	43.5
216 to 960	3	46.0
Above 960	3	54.0

6.5.2. Measurement Summary

Notes: Each of the tabled entries represent the worst case receive antenna polarity and DUT orthogonal position for the given frequency range.

All measurements were made with a peak detector.

Frequency Range (MHz)	Worst Case Emission Frequency (MHz)	Peak Amplitude (dBμV/m)	QP/Average Limit (dBμV/m)	Margin (dB)	Antenna Polarity (Orientation)
0.030 to 0.150	0.030	82.74	118.00	-35.26	Perpendicular
0.150 to 30.000	2.462	54.23	69.50	-15.27	Ground Parallel
30 to 1000	316.543	39.12	46.00	-6.88	Horizontal
1000 to 6000	4960.700	49.19	54.00	-4.81	Horizontal
6000 to 18000	16429.600	46.50	54.00	-7.50	Horizontal
18000 to 25000	22526.900	45.74	54.00	-8.26	Vertical

6. Measurement Data (continued)

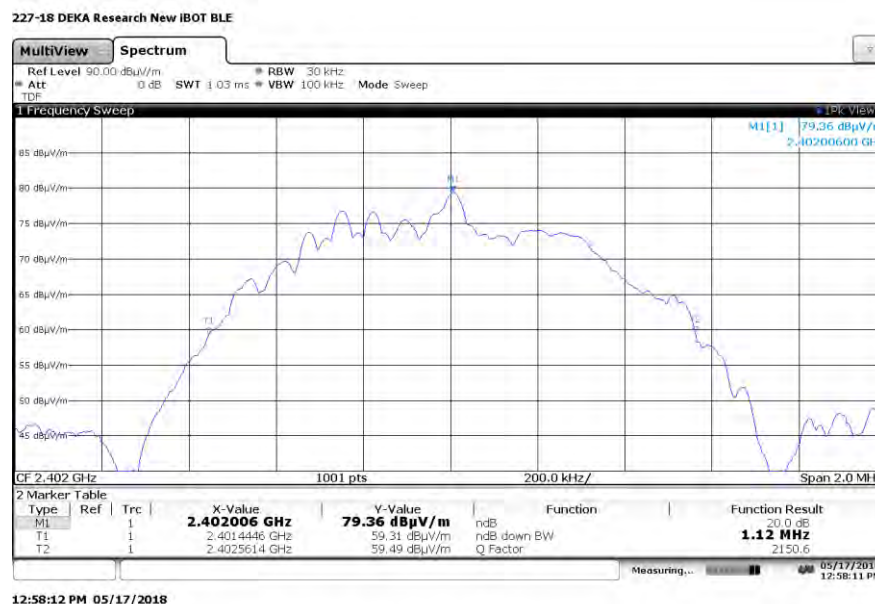
6.6 Occupied Bandwidth (ANSI C63.10, Section 6.9.1 & IC RSS-GEN, Issue 4)

Requirement: The occupied bandwidth measurements on an intentional radiator shall be made in accordance with the requirements outlined in ANSI C63.10-2013, Section 6.9.1. If no bandwidth requirement is specified by the procuring or regulatory agency, the bandwidth will be measured at -20 dB with respect to the reference level.

Test Notes: The span range for the SA display shall be between two times and five times the OBW. The nominal IF filter bandwidth (3 dB RBW) should be approximately 1% to 5% of the OBW, unless otherwise specified, depending on the applicable requirement. The dynamic range of the SA at the selected RBW shall be more than 10 dB below the target "dB down" (attenuation) requirement, i.e., if the requirement calls for measuring the -20 dB OBW, the SA noise floor at the selected RBW shall be at least 30 dB below the largest measured value on the display.

Frequency (MHz)	-20 dB Bandwidth (kHz)
2402	1120
2440	1120
2480	1120

6.6.1. Occupied (-20 dB) Bandwidth, Channel 37



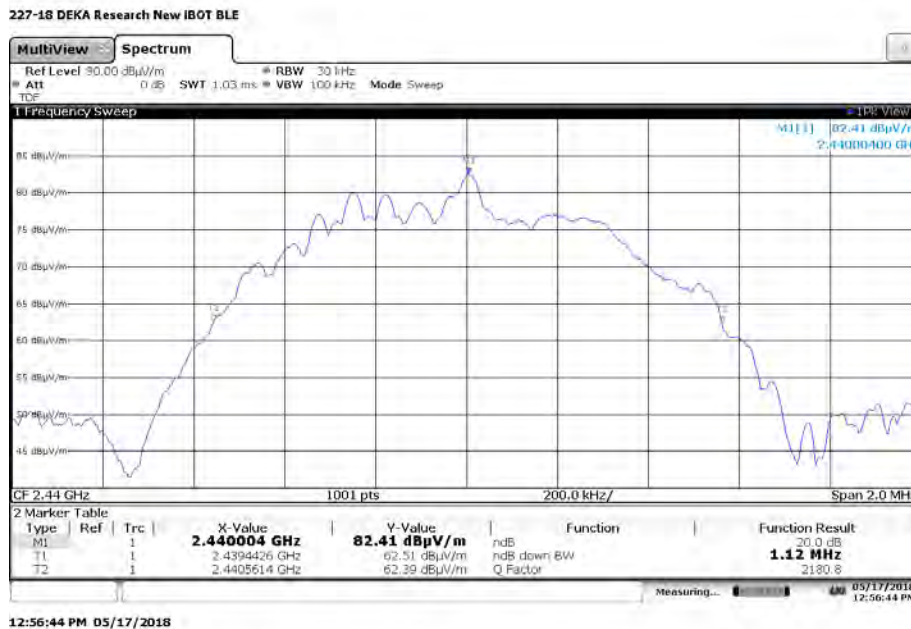
Test Number: 227-18

Issue Date: 6/1/2018

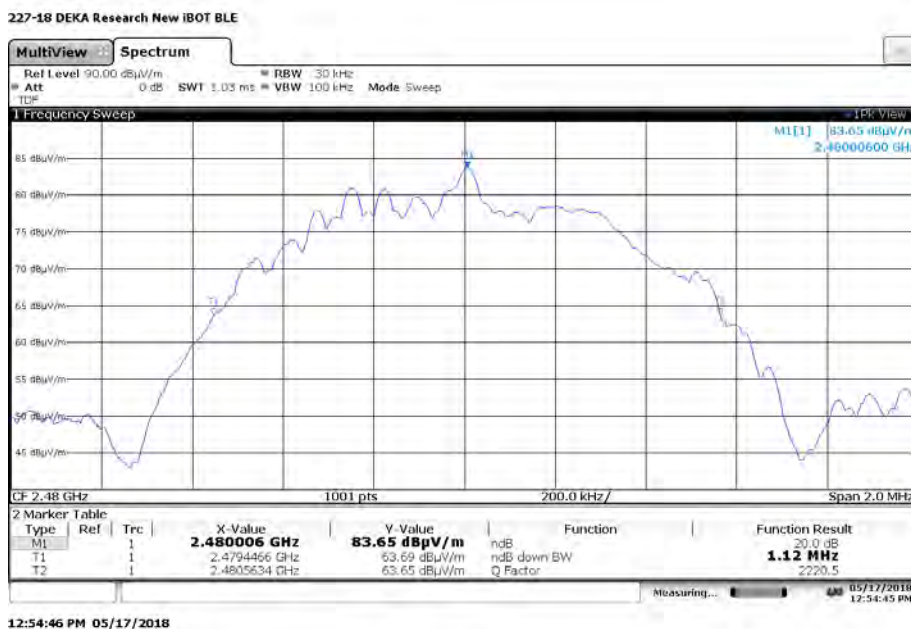
6. Measurement Data (continued)

6.6 Occupied Bandwidth (ANSI C63.4, Section 13.1.7 & IC RSS-GEN, Issue 4) (continued)

6.6.2. Occupied (-20 dB) Bandwidth, Channel 17



6.6.3. Occupied (-20 dB) Bandwidth, Channel 39



6. Measurement Data (continued)

6.8. Conducted Emissions (FCC Part 15.207)

Regulatory Limits: FCC Part 15.207

Frequency Range (MHz)	Limits (dBμV)	
	Quasi-Peak	Average
0.15 to 0.50	66 to 56 ¹	56 to 46 ¹
0.50 to 5.0	56	46
5.0 to 30	60	50
¹ The limit decreases linearly with the logarithm of the frequency.		

Measurement & Equipment Setup

Test Date:	N/A
Test Engineer:	
Site Temperature (°C):	
Relative Humidity (%RH):	
Frequency Range:	0.15 MHz to 30 MHz
EMI Receiver IF Bandwidth:	9 kHz
EMI Receiver Avg Bandwidth:	30 kHz
Detector Functions:	Peak, Quasi-Peak. & Average
Measurement Uncertainty	± 3.56 dB

Test Procedure

Test measurements were made in accordance with ANSI C63.10-2013: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices, Section 6.2: Standard test method for ac power-line conducted emissions from unlicensed wireless devices.

NOTE: The EUT is operated off of battery power and does not operate during charging.

6. Measurement Data (continued)

6.8. Public Exposure to Radio Frequency Energy Levels ((1.1307 (b)(1)) RSS-GEN, ISSUE 4, RSS 102)

6.8.1. FCC Requirements

Requirement: Portable devices are subject to radio frequency radiation exposure requirements.

For a 1-g SAR, the test exclusion result must be ≤ 3.0 .

Test Notes: The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by the following formula:

$$\text{SAR Test Exclusion} = \frac{P_{\text{MAX}}}{d_{\text{MIN}}} \times \sqrt{f_{(\text{GHz})}} \quad (1)$$

P_{MAX} mW Maximum power of channel, including tune-up tolerance

d_{MIN} mm Minimum test separation distance, mm (≤ 50 mm)

$f_{(\text{GHz})}$ GHz $f_{(\text{GHz})}$ is the RF channel transmit frequency in GHz (>100 MHz and <6 GHz)

(1) FCC OET 447498 - Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

Conclusion: The device under test meets the exclusion requirement detailed in FCC OET 447498.

Input:	P_{MAX}^1 (mW)	0.05	0.11	0.11
	d_{MIN} (mm)	5.00	5.00	5.00
	$f_{(\text{GHz})}$	2.402	2.441	2.480
Test Exclusion:		0.017	0.035	0.033
Limit Exemption:		3.00	3.00	3.00

¹ Taken from column 5 of the table in Section 7.4 of this test report.

6.8.2. RSS-102 Issue 5 Requirements

Requirement: SAR evaluation is required if the separation distance between the user and/or bystander and the antenna and/or radiating element of the device is less than or equal to 20 cm, except when the device operates at or below the applicable output power level (adjusted for tune-up tolerance) for the specified separation distance defined in Table 1. Portable devices are subject to radio frequency radiation exposure requirements.

Test Notes: The limit was taken from Table 1 of RSS-102 Issue 5.

Frequency (MHz)	Separation Distance (mm)	Maximum Power (mW)	RSS-102 Limit (mW)	Result
2402.00	≤ 5	0.05	4.26	Compliant
2440.00	≤ 5	0.11	4.05	Compliant
2480.00	≤ 5	0.11	3.94	Compliant

7. Test Setup Photographs

7.1 Radiated Field Strength, Harmonics and Spurious Emissions >1 GHz, Front View



7. Test Setup Photographs

7.2. Radiated Field Strength, Harmonics and Spurious Emissions, Rear View (1 GHz to 18 GHz)



7. Test Setup Photographs

7.3. Radiated Field Strength, Harmonics and Spurious Emissions, Rear View (above 18 GHz)



7. Test Setup Photographs

7.4. Spurious Emissions <1 GHz, Front View



7. Test Setup Photographs

7.5. Spurious Emissions, Rear View (10 kHz to 30 MHz)



7. Test Setup Photographs

7.6. Spurious Emissions, Rear View (30 MHz to 1 GHz)



8. Test Site Description

Compliance Worldwide is located at 357 Main Street in Sandown, New Hampshire. The test sites at Compliance Worldwide are used for conducted and radiated emissions testing in accordance with the Federal Communications Commission (FCC) and Industry Canada standards. Through our American Association for Laboratory Accreditation (A2LA) ISO Guide 17025:2005 Accreditation our test sites are designated with the FCC (designation number **US1091**), Industry Canada (file number **IC 3023A-1**) and VCCI (Member number 3168) under registration number A-0274.

Compliance Worldwide is also designated as a Phase 1 CAB under APEC-MRA (US0132) for Australia/New Zealand AS/NZS CISPR 22, Chinese-Taipei (Taiwan) BSMI CNS 13438 and Korea (RRA) KN 11, KN 13, KN 14-1, KN 22, KN 32, KN 61000-6-3, KN 61000-6-4.

The radiated emissions test site is a 3 and 10 meter enclosed open area test site (OATS). Personnel, support equipment and test equipment are located in the basement beneath the OATS ground plane.

The conducted emissions site is part of a 16' x 20' x 12' ferrite tile chamber and uses one of the walls for the vertical ground plane. A second conducted emissions site is also located in the basement of the OATS site with a 2.3 x 2.5 meter ground plane and a 2.4 x 2.4 meter vertical wall.

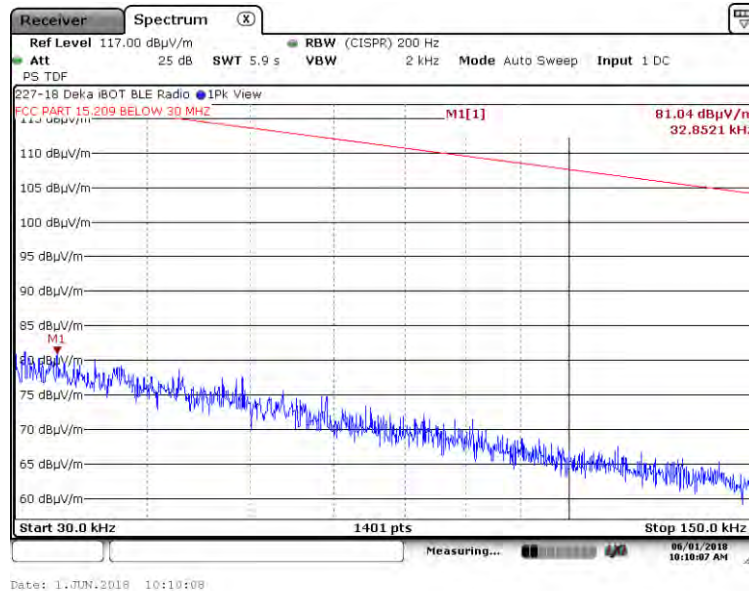
Both sites are designed to test products or systems 1.5 meters W x 1.5 meters L x 2.0 meters H, floor standing or table top.

Appendix A

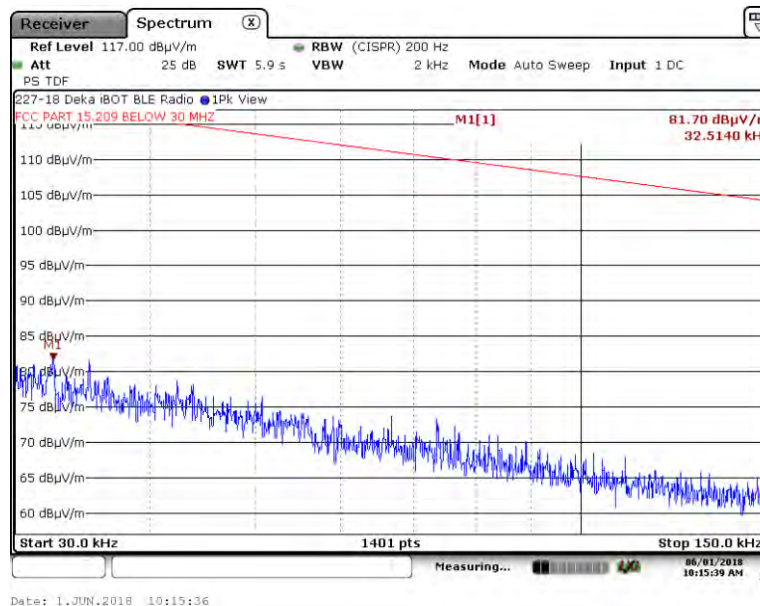
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)), IC RSS-GEN, Issue 4 (continued)

A.1. Spurious Radiated Emissions (30 kHz to 150 kHz) Ch. 37 Measurement Results

A.1.1. Measurement Results – DUT Position: X-Axis, Parallel Antenna



A.1.2. Measurement Results – DUT Position: X-Axis, Perpendicular Antenna

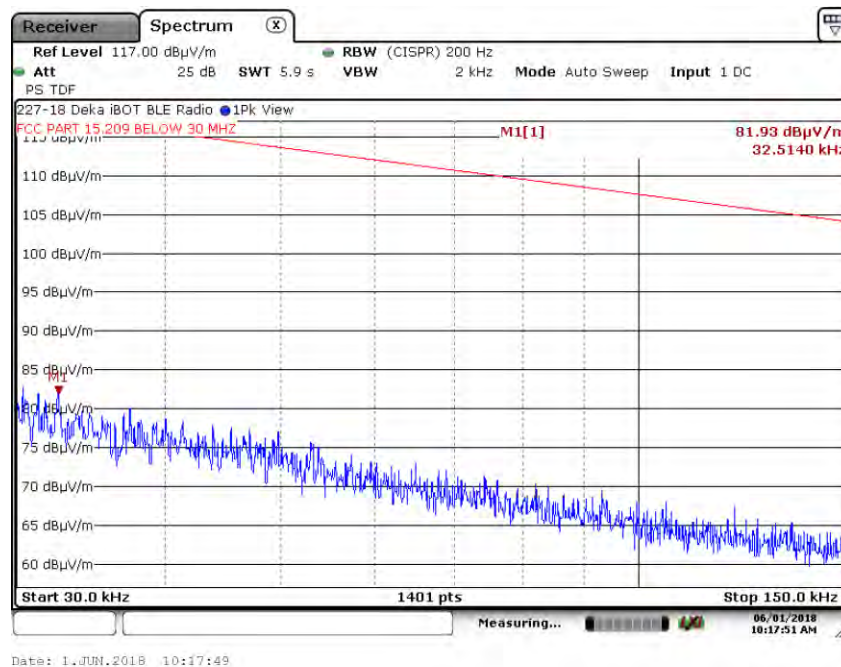


Appendix A (continued)

Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, Issue 4 (continued)

A.1. Spurious Radiated Emissions (30 kHz to 150 kHz) Ch. 37 Measurement Results

A.1.3. Measurement Results – DUT Position: X-Axis, Ground Parallel Antenna



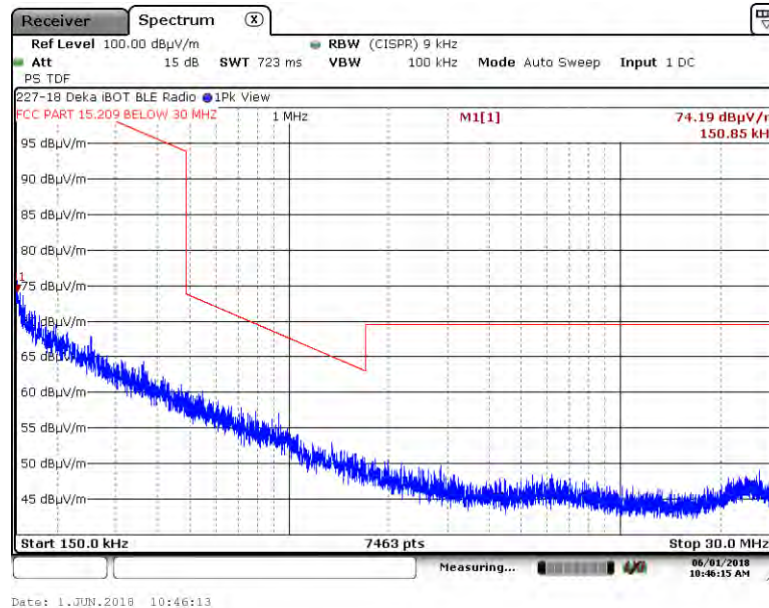
Note: All other orientations were noise floor

Appendix A (continued)

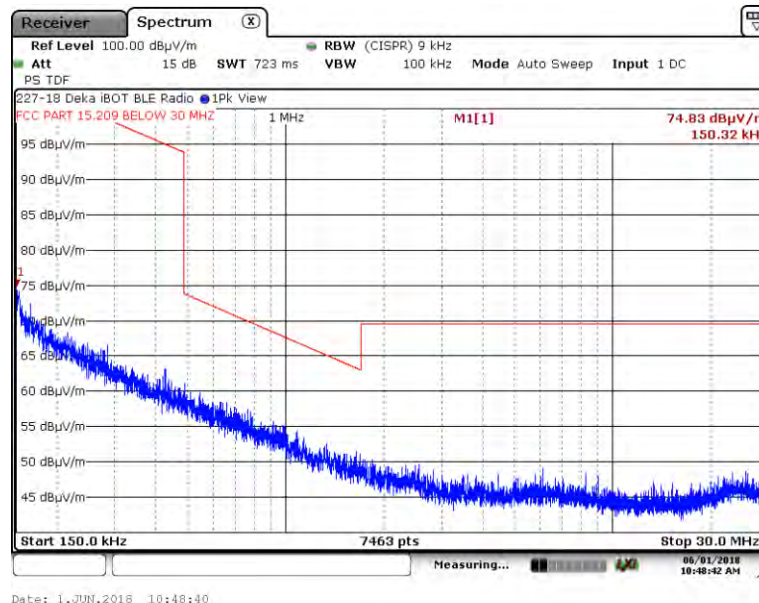
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, Issue 4 (continued)

A.2. Spurious Radiated Emissions (150 kHz to 30 MHz) Ch. 37 Measurement Results

A.2.1. Measurement Results – DUT Position: X-Axis, Parallel Antenna



A.2.2. Measurement Results – DUT Position: X-Axis, Perpendicular Antenna

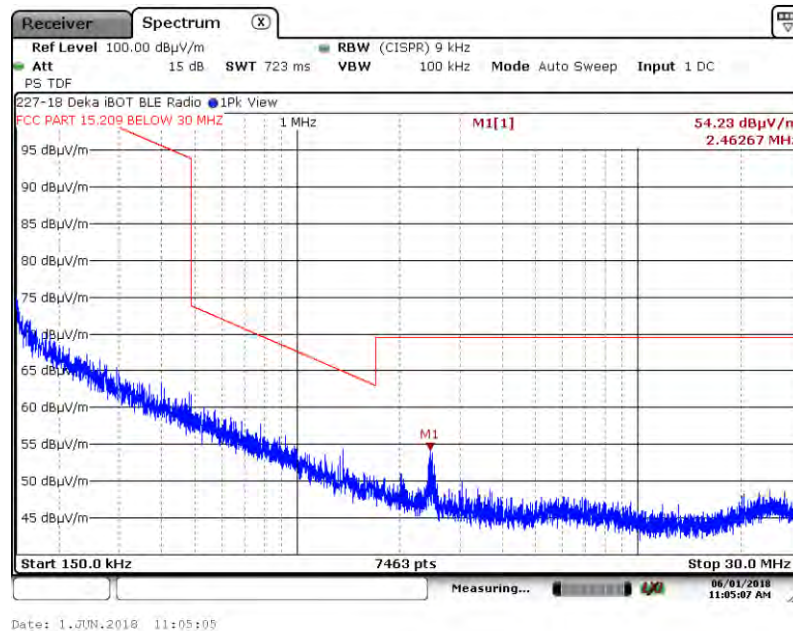


Appendix A (continued)

Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.2. Spurious Radiated Emissions (150 kHz to 30 MHz) Ch. 37 Measurement Results

A.2.3. Measurement Results – DUT Position: X-Axis, Ground Parallel Antenna



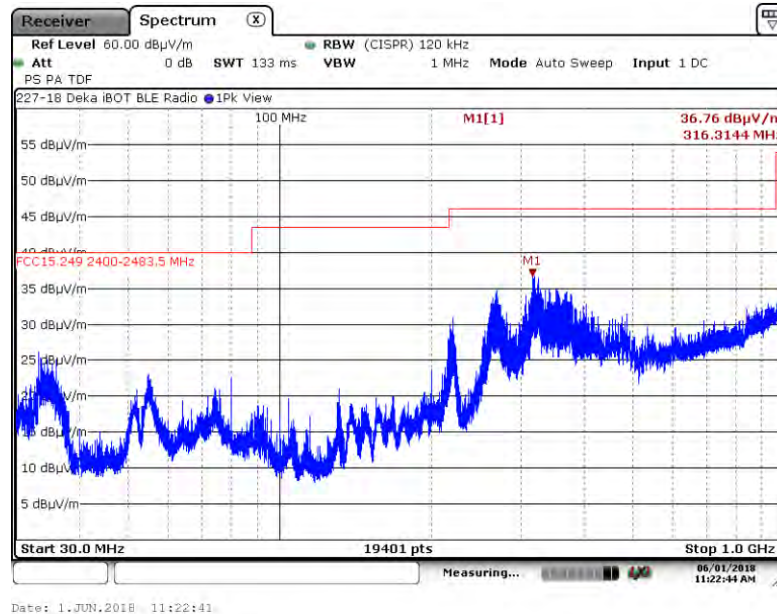
Note: All other orientations were noise floor

Appendix A (continued)

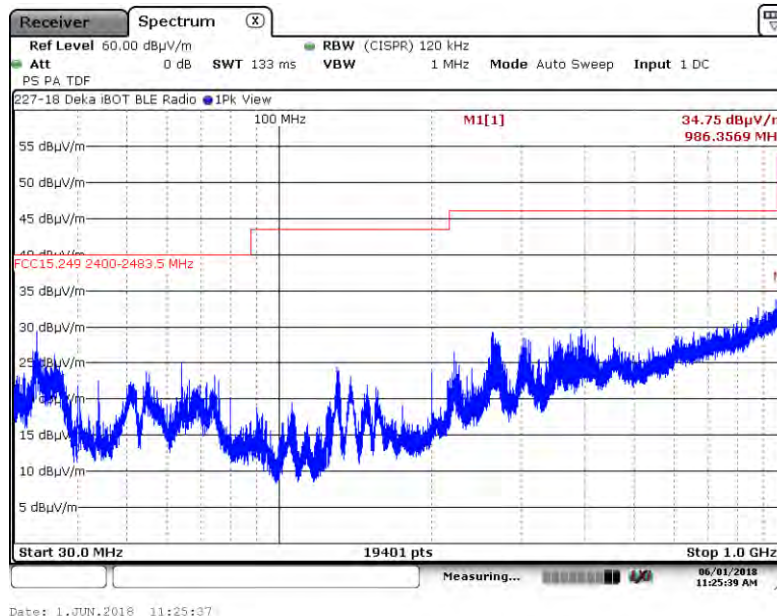
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.3. Spurious Radiated Emissions (30 MHz to 1 GHz) Ch. 37 Measurement Results

A.3.1. Measurement Results – DUT Position: X-Axis, Horizontal Antenna



A.3.2. Measurement Results – DUT Position: X-Axis, Vertical Antenna

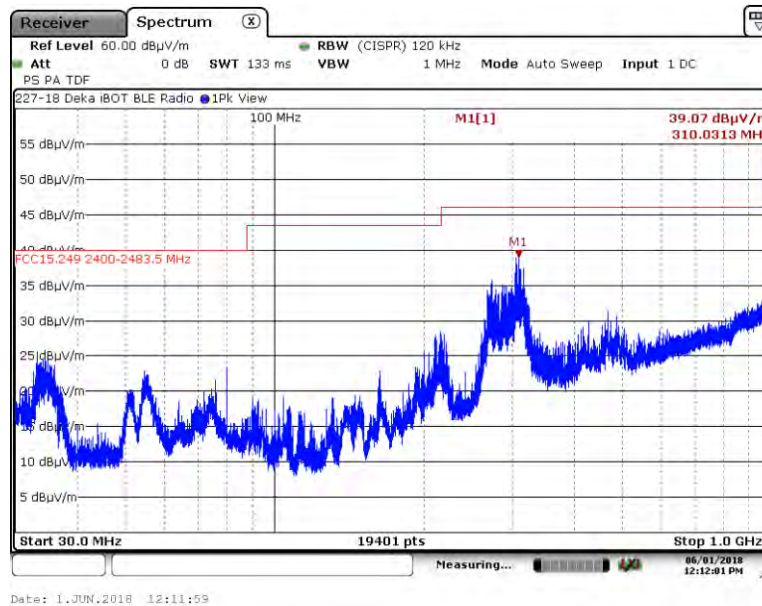


Appendix A (continued)

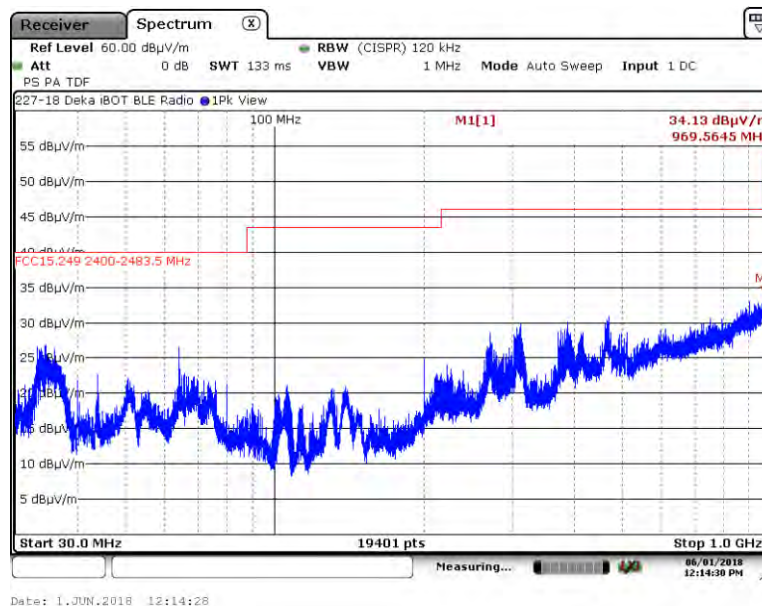
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.3. Spurious Radiated Emissions (30 MHz to 1 GHz) Ch. 37 Measurement Results

A.3.3. Measurement Results – DUT Position: Y–Axis, Horizontal Antenna



A.3.4. Measurement Results – DUT Position: Y–Axis, Vertical Antenna

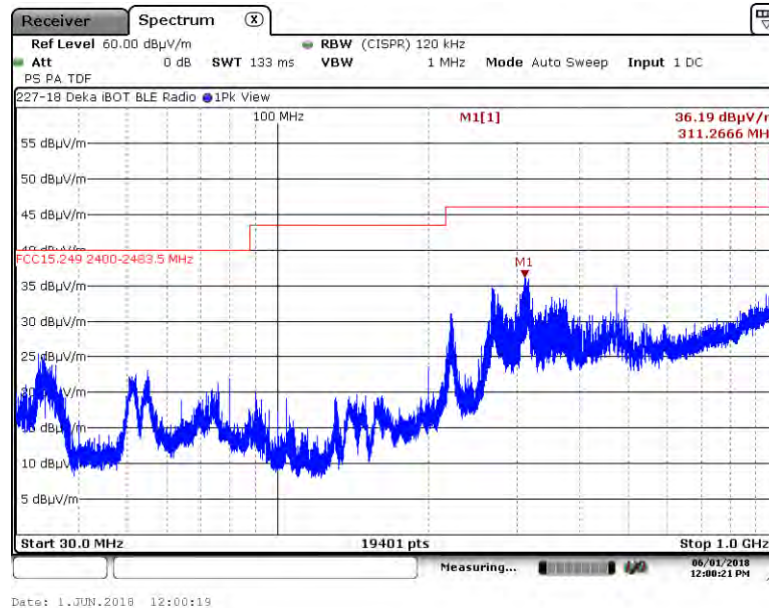


Appendix A (continued)

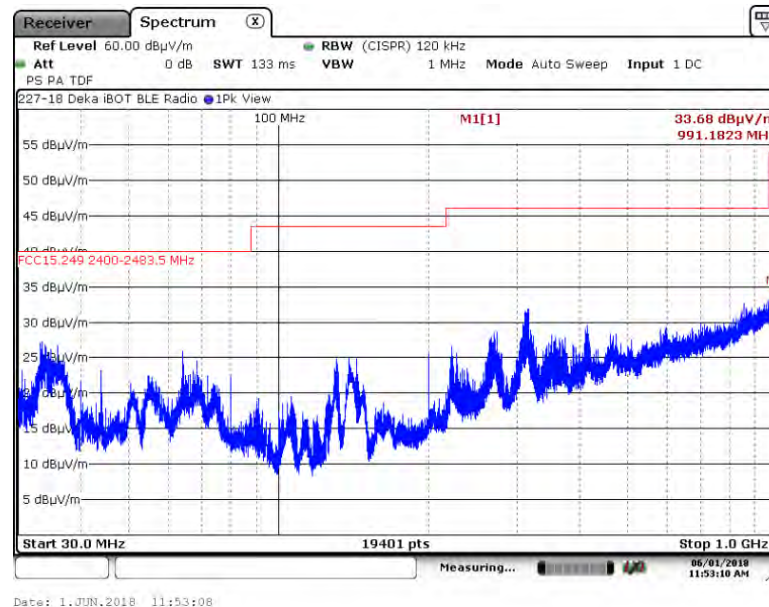
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.3. Spurious Radiated Emissions (30 MHz to 1 GHz) Ch. 37 Measurement Results

A.3.5. Measurement Results – DUT Position: Z-Axis, Horizontal Antenna



A.3.6. Measurement Results – DUT Position: Z-Axis, Vertical Antenna

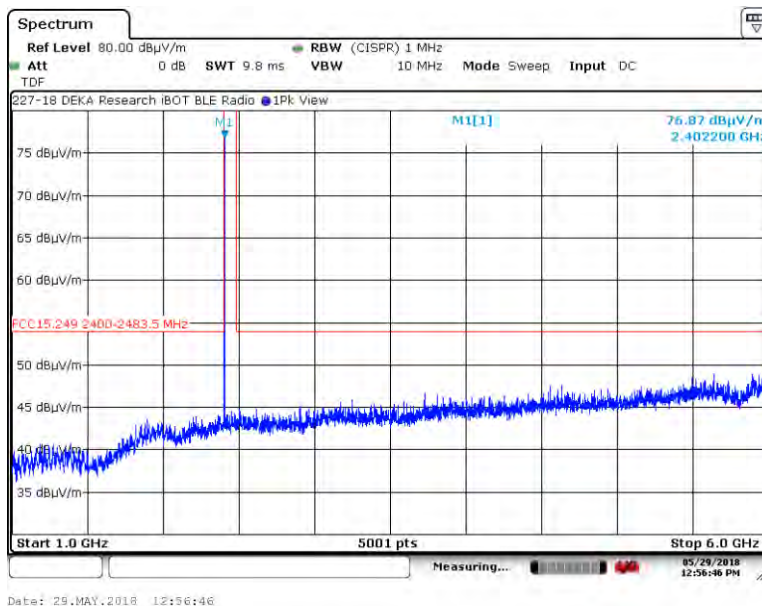


Appendix A (continued)

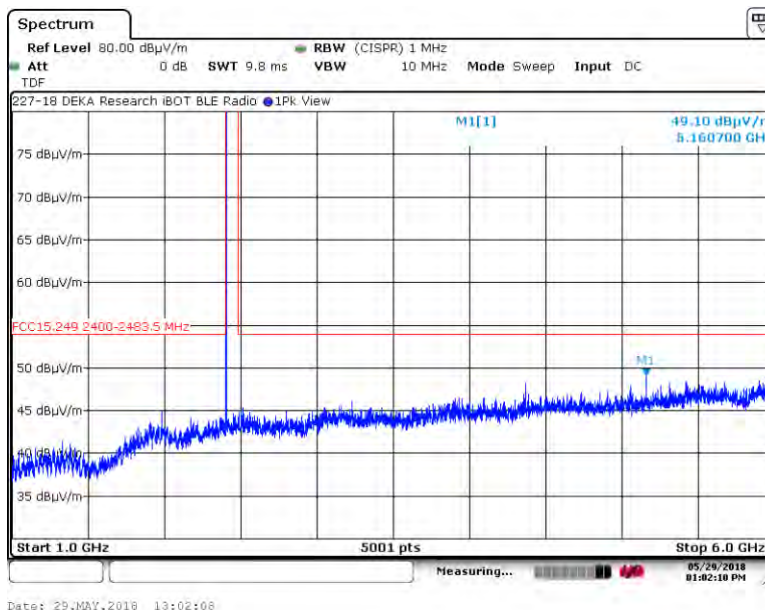
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.4. Spurious Radiated Emissions (1 GHz to 6 GHz) Ch. 37 Measurement Results

A.4.1. Measurement Results – DUT Position: X-Axis, Horizontal Antenna



A.4.2. Measurement Results – DUT Position: X-Axis, Vertical Antenna

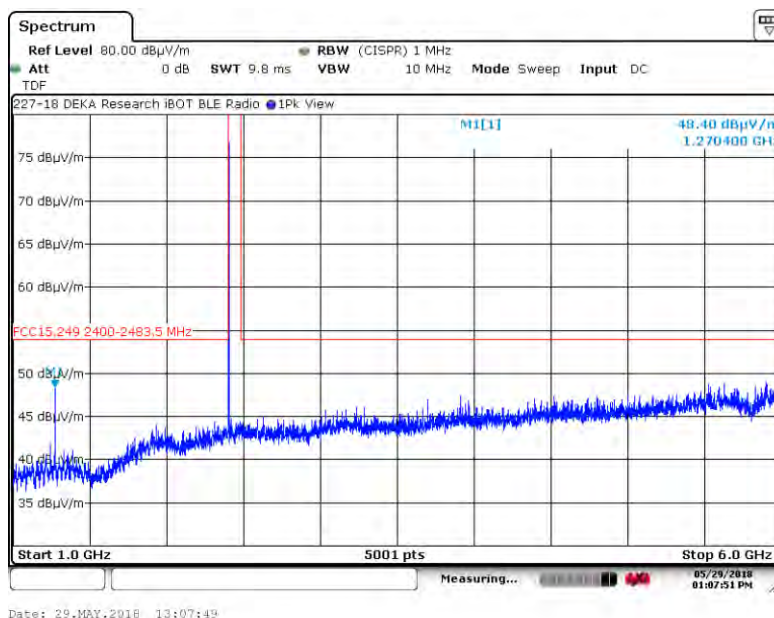


Appendix A (continued)

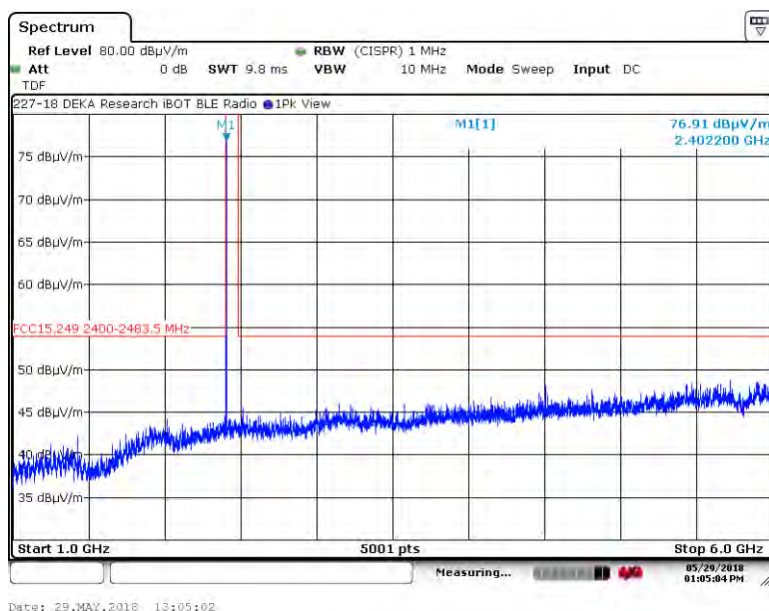
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.4. Spurious Radiated Emissions (1 GHz to 6 GHz) Ch. 37 Measurement Results

A.4.3. Measurement Results – DUT Position: Y-Axis, Horizontal Antenna



A.4.4. Measurement Results – DUT Position: Y-Axis, Vertical Antenna

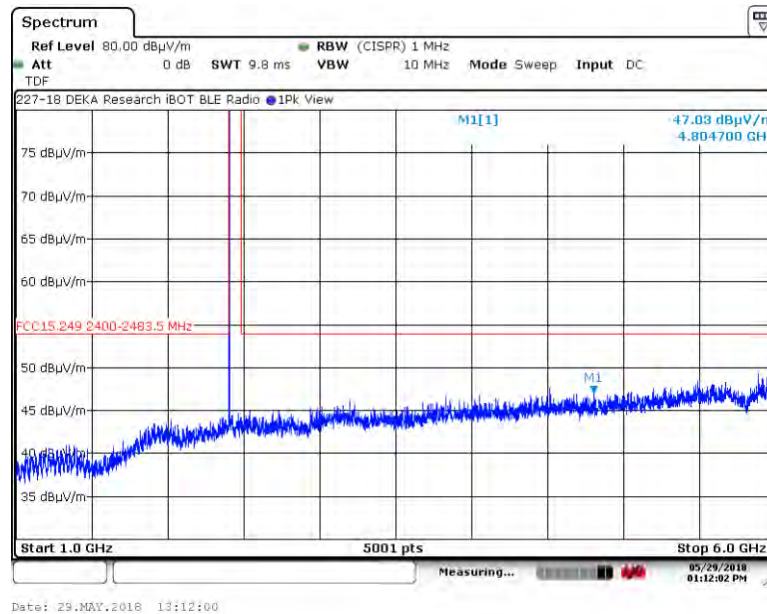


Appendix A (continued)

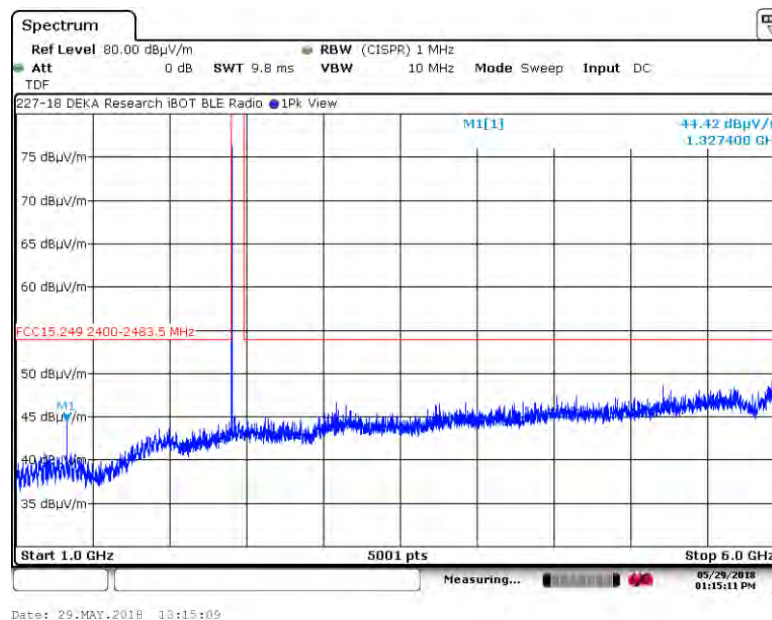
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.4. Spurious Radiated Emissions (1 GHz to 6 GHz) Ch. 37 Measurement Results

A.4.5. Measurement Results – DUT Position: Z-Axis, Horizontal Antenna



A.4.6. Measurement Results – DUT Position: Z-Axis, Vertical Antenna

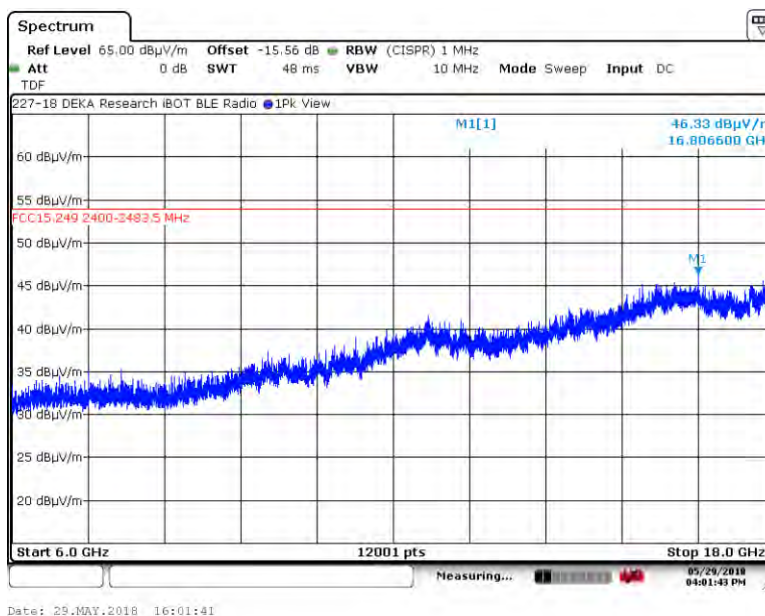


Appendix A (continued)

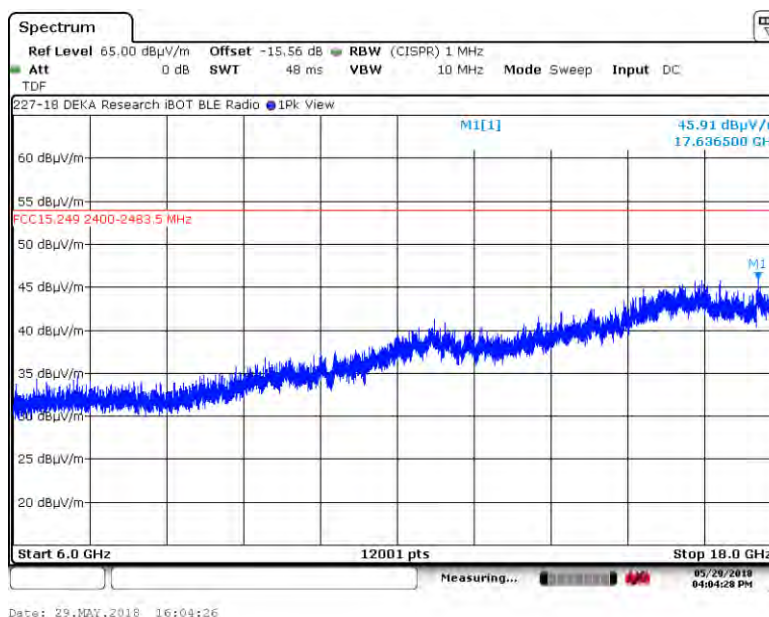
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.5. Spurious Radiated Emissions (6 GHz to 18 GHz) Ch. 37 Measurement Results

A.5.1. Measurement Results – DUT Position: X-Axis, Horizontal Antenna



A.5.2. Measurement Results – DUT Position: X-Axis, Vertical Antenna

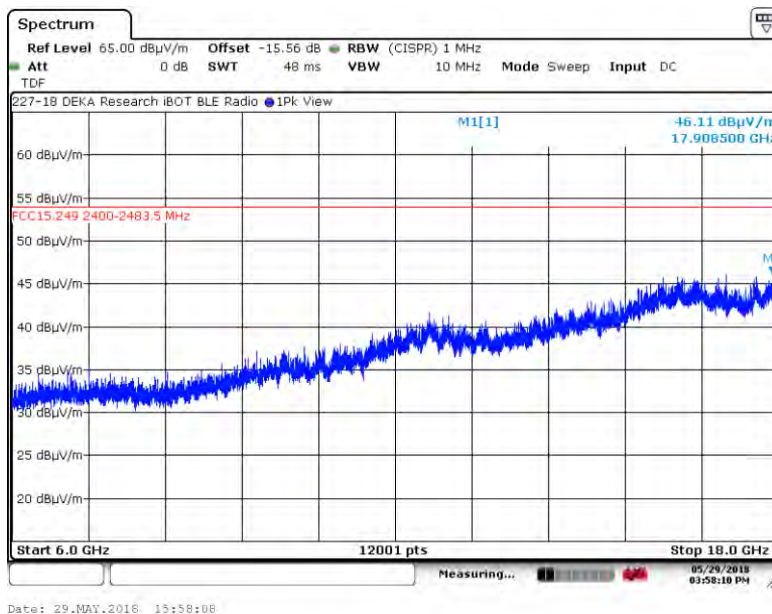


Appendix A (continued)

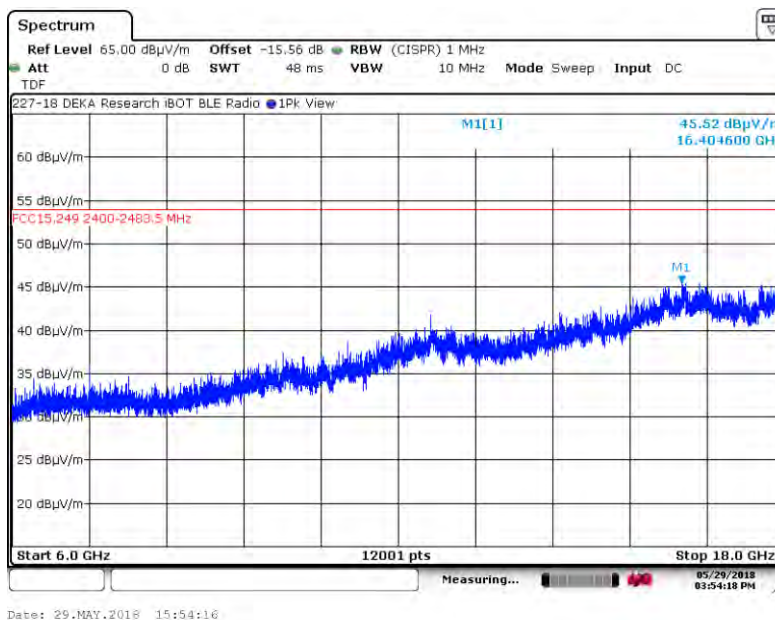
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.5. Spurious Radiated Emissions (6 GHz to 18 GHz) Ch. 37 Measurement Results

A.5.3. Measurement Results – DUT Position: Y–Axis, Horizontal Antenna



A.5.4. Measurement Results – DUT Position: Y–Axis, Vertical Antenna

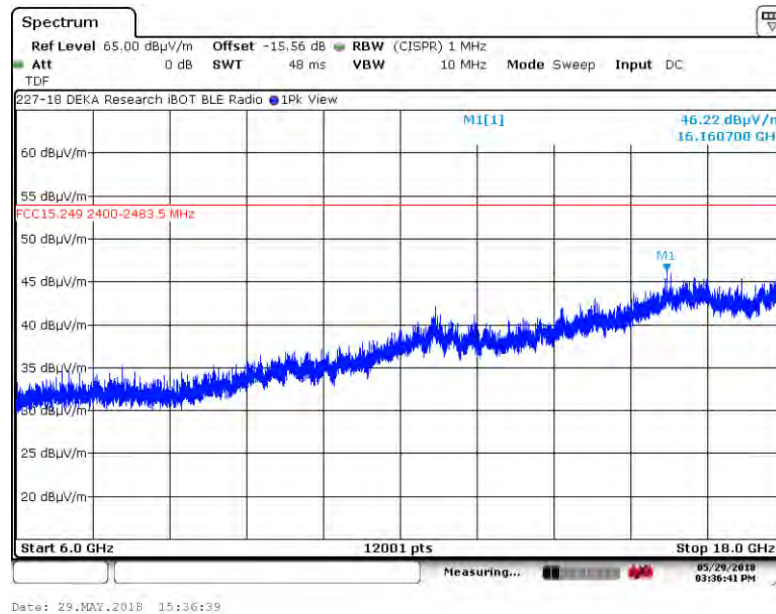


Appendix A (continued)

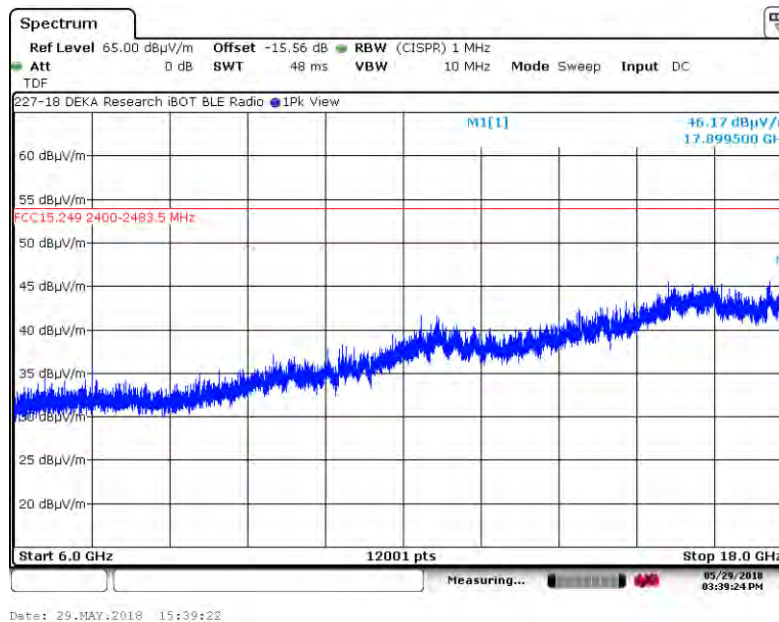
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.5. Spurious Radiated Emissions (6 GHz to 18 GHz) Ch. 37 Measurement Results

A.5.5. Measurement Results – DUT Position: Z-Axis, Horizontal Antenna



A.5.6. Measurement Results – DUT Position: Z-Axis, Vertical Antenna

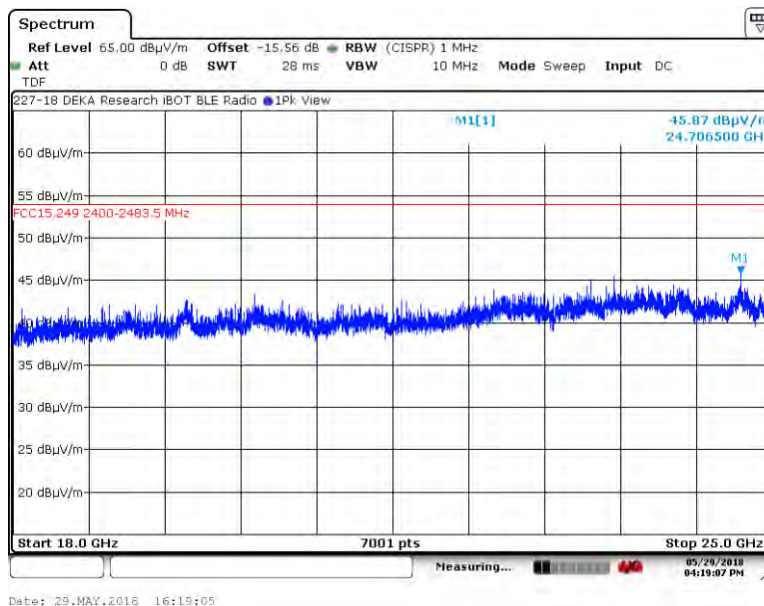


Appendix A (continued)

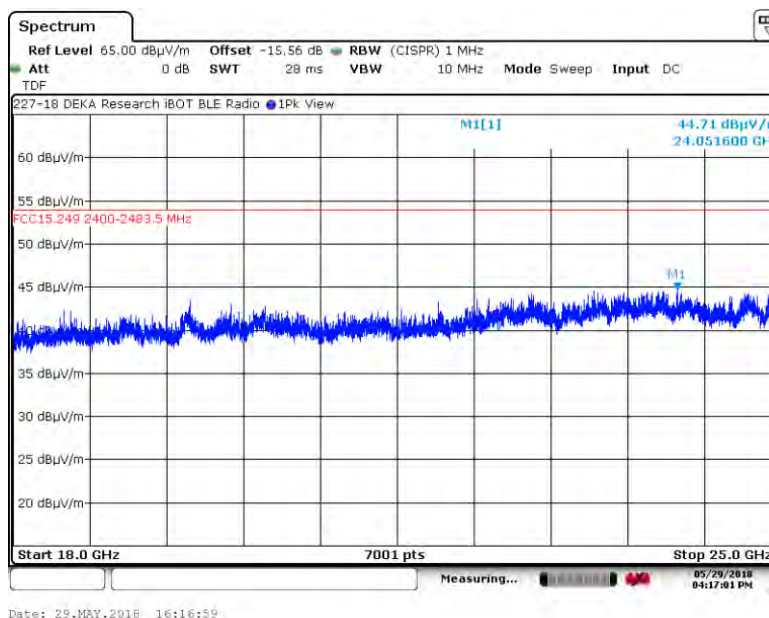
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.6. Spurious Radiated Emissions (18 GHz to 25 GHz) Ch. 37 Measurement Results

A.6.1. Measurement Results – DUT Position: X-Axis, Horizontal Antenna



A.6.2. Measurement Results – DUT Position: X-Axis, Vertical Antenna

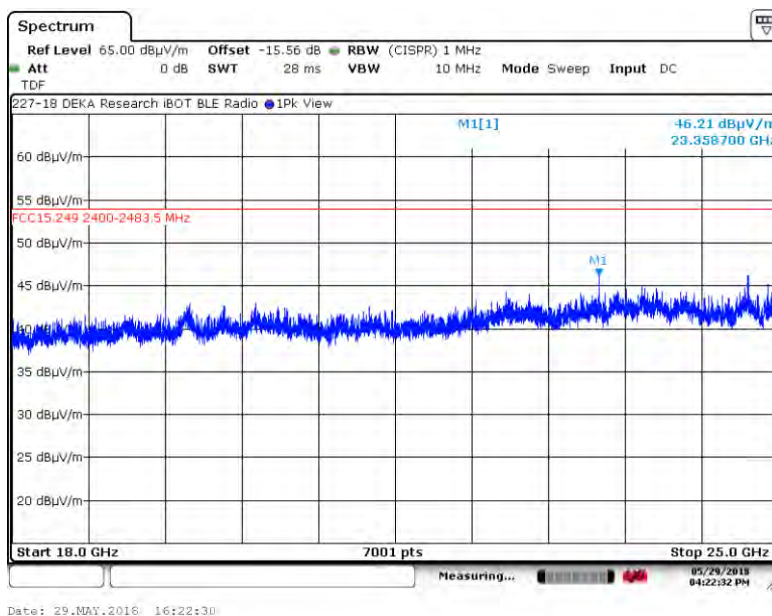


Appendix A (continued)

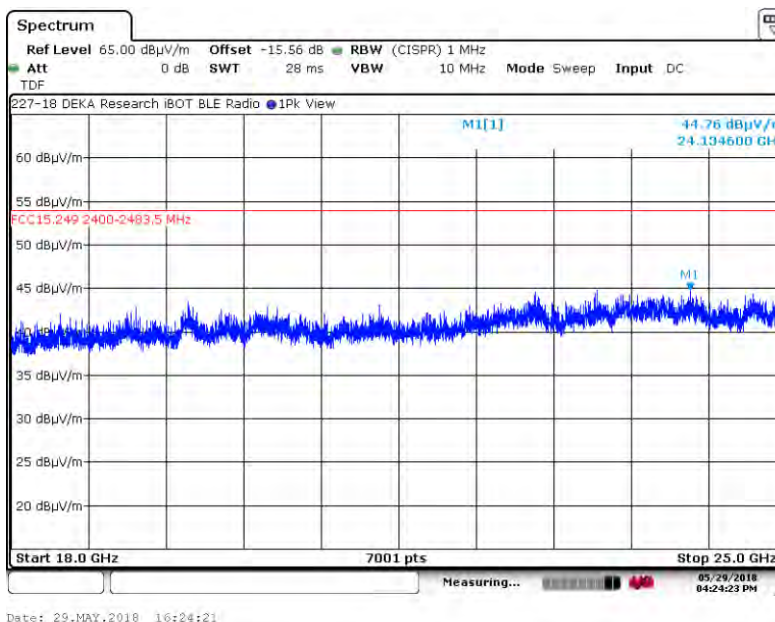
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.6. Spurious Radiated Emissions (18 GHz to 25 GHz) Ch. 37 Measurement Results

A.6.3. Measurement Results – DUT Position: Y–Axis, Horizontal Antenna



A.6.4. Measurement Results – DUT Position: Y–Axis, Vertical Antenna

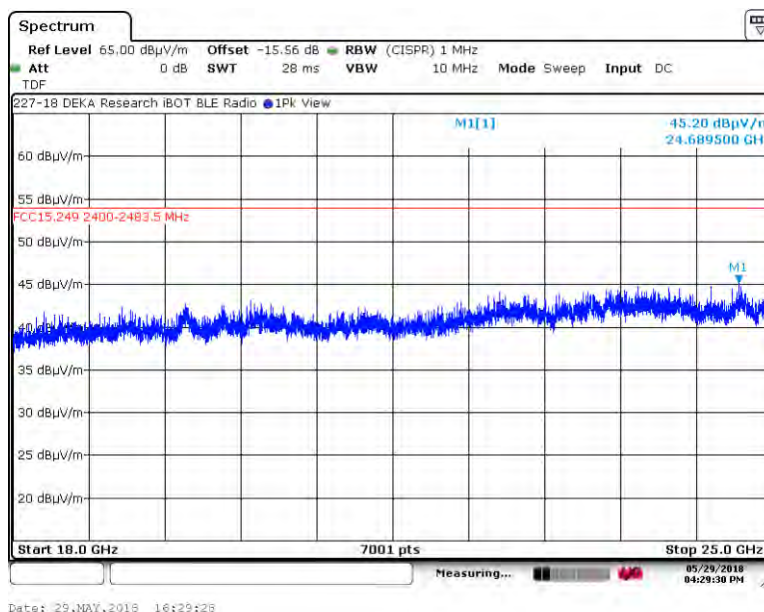


Appendix A (continued)

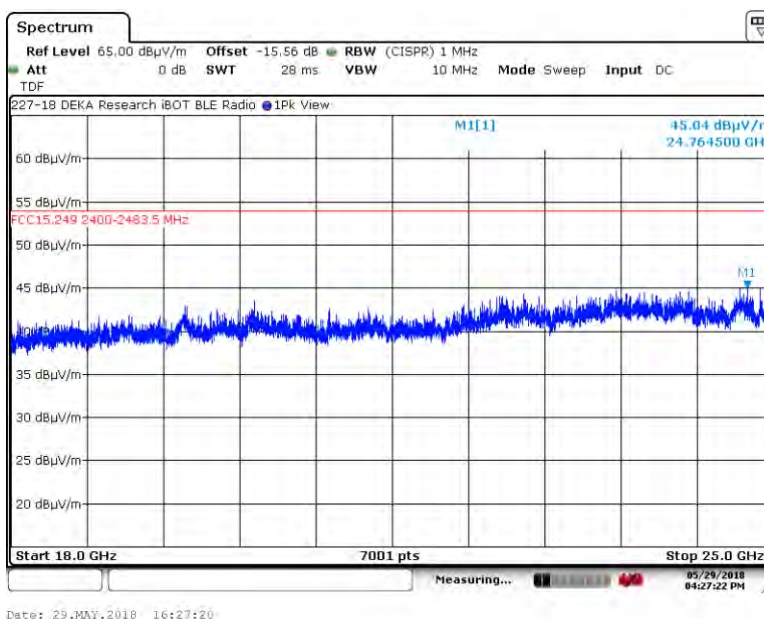
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.6. Spurious Radiated Emissions (18 GHz to 25 GHz) Ch. 37 Measurement Results

A.6.5. Measurement Results – DUT Position: Z-Axis, Horizontal Antenna



A.6.6. Measurement Results – DUT Position: Z-Axis, Vertical Antenna

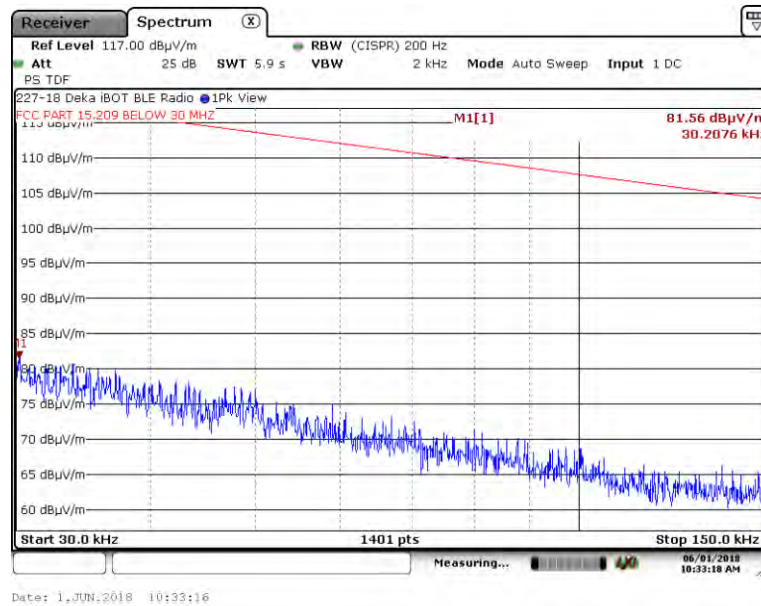


Appendix A (continued)

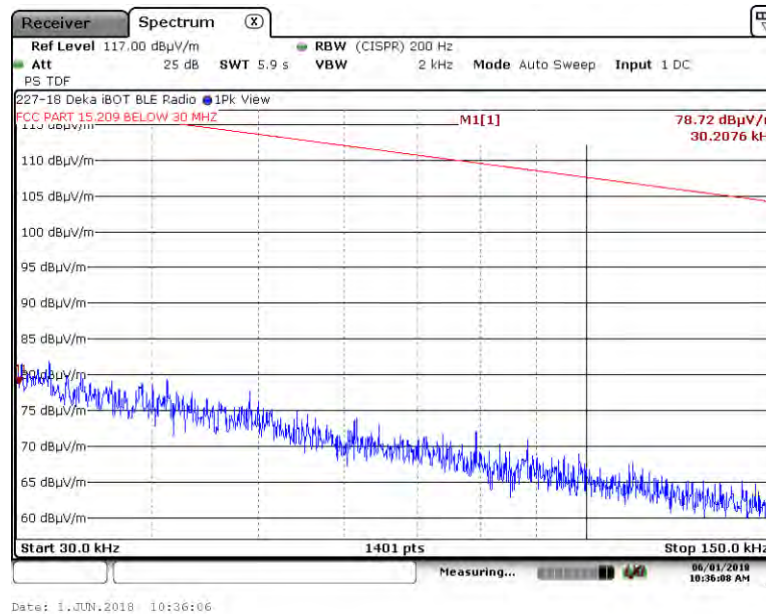
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.8. Spurious Radiated Emissions (30 kHz to 150 kHz) Ch. 17 Measurement Results

A.8.1. Measurement Results – DUT Position: X-Axis, Parallel Antenna



A.8.2. Measurement Results – DUT Position: X-Axis, Perpendicular Antenna

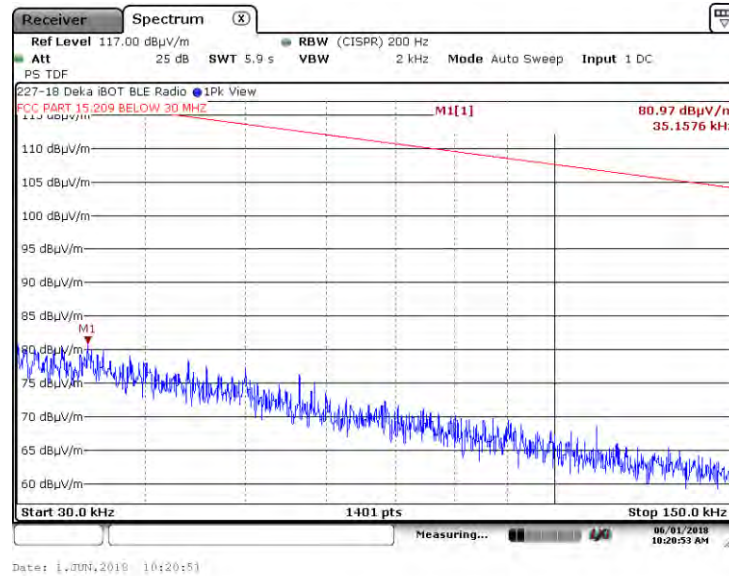


Appendix A (continued)

Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.8. Spurious Radiated Emissions (30 kHz to 150 kHz) Ch. 17 Measurement Results

A.8.3. Measurement Results – DUT Position: X-Axis, Ground Parallel Antenna



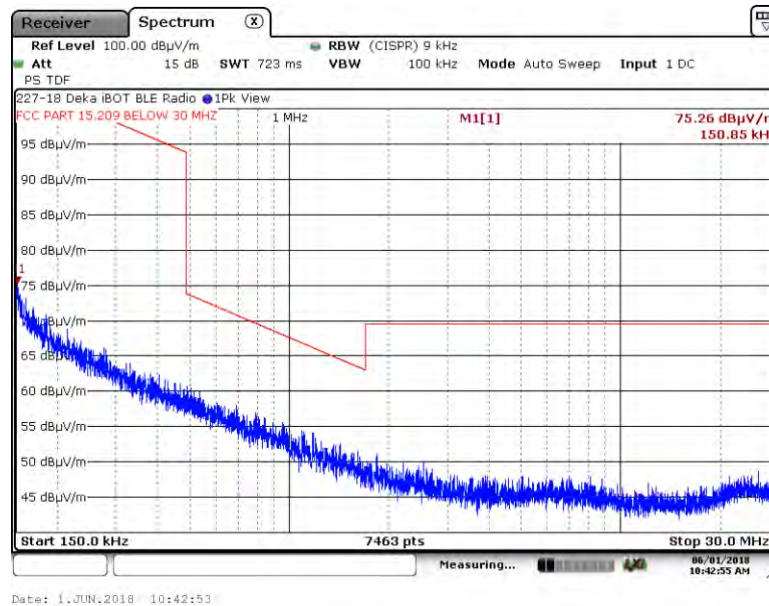
Note: All other orientations were noise floor

Appendix A (continued)

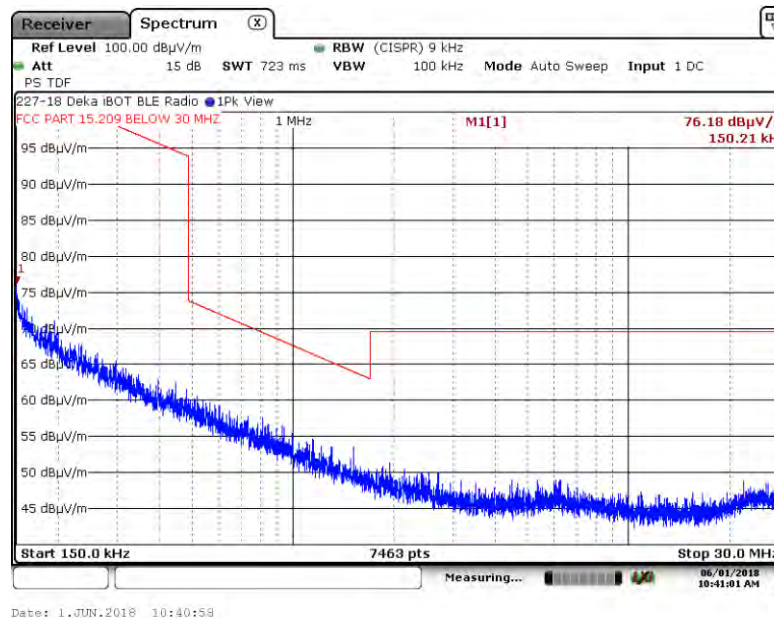
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.9. Spurious Radiated Emissions (150 kHz to 30 MHz) Ch. 17 Measurement Results

A.9.1. Measurement Results – DUT Position: X-Axis, Parallel Antenna



A.9.2. Measurement Results – DUT Position: X-Axis, Perpendicular Antenna

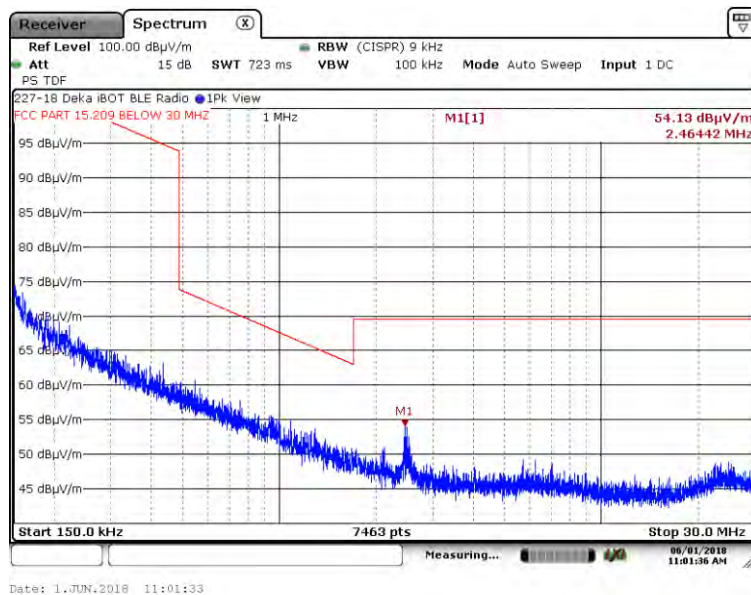


Appendix A (continued)

Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)), IC RSS-GEN, ISSUE 4 (continued)

A.9. Spurious Radiated Emissions (150 kHz to 30 MHz) Ch. 17 Measurement Results

A.9.3. Measurement Results – DUT Position: X-Axis, Ground Parallel Antenna



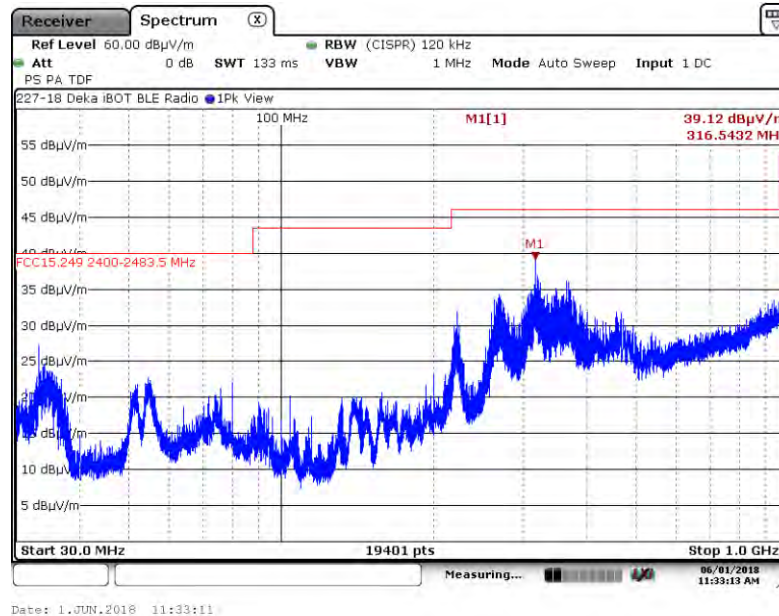
Note: All other orientations were noise floor

Appendix A (continued)

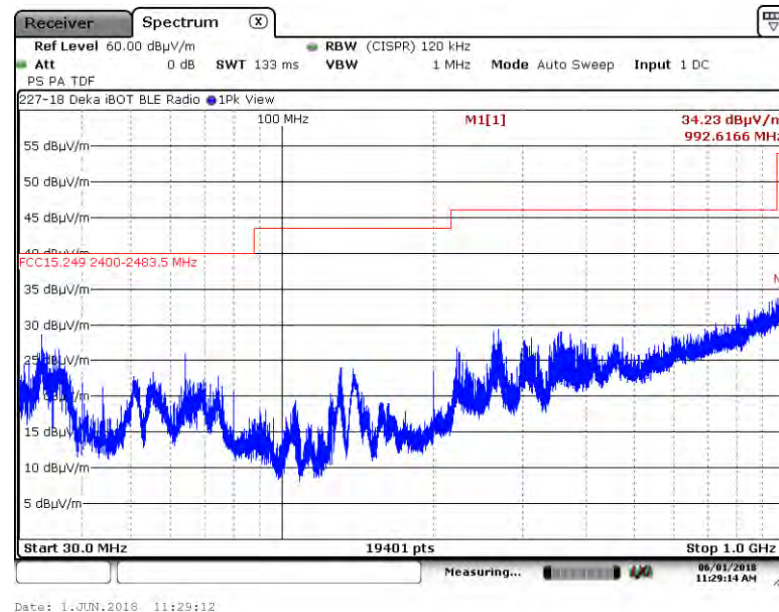
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.10. Spurious Radiated Emissions (30 MHz to 1 GHz) Ch. 17 Measurement Results

A.10.1. Measurement Results – DUT Position: X–Axis, Horizontal Antenna



A.10.2. Measurement Results – DUT Position: X–Axis, Vertical Antenna

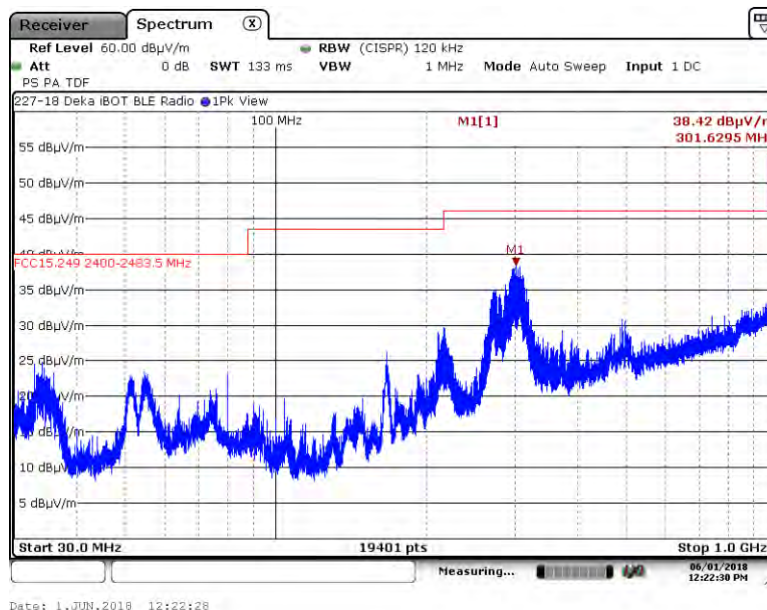


Appendix A (continued)

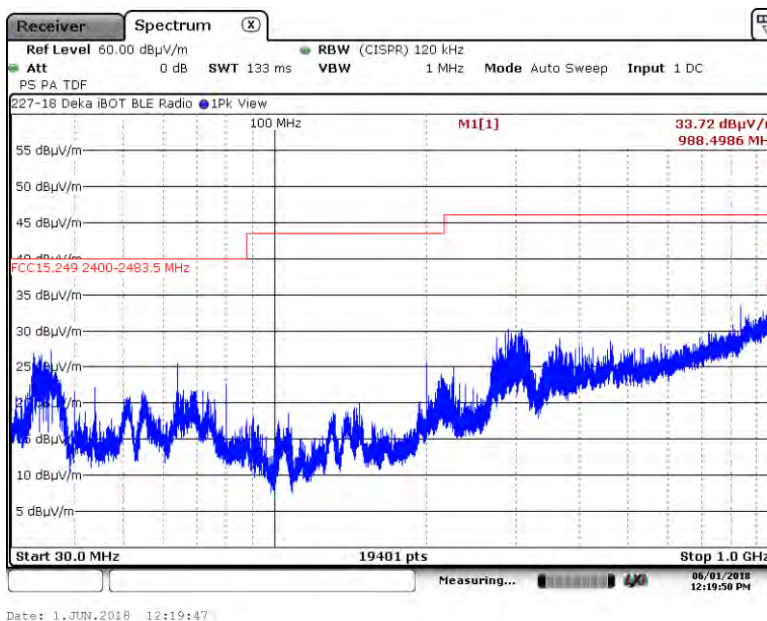
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.10. Spurious Radiated Emissions (30 MHz to 1 GHz) Ch. 17 Measurement Results

A.10.3. Measurement Results – DUT Position: Y–Axis, Horizontal Antenna



A.10.4. Measurement Results – DUT Position: Y–Axis, Vertical Antenna

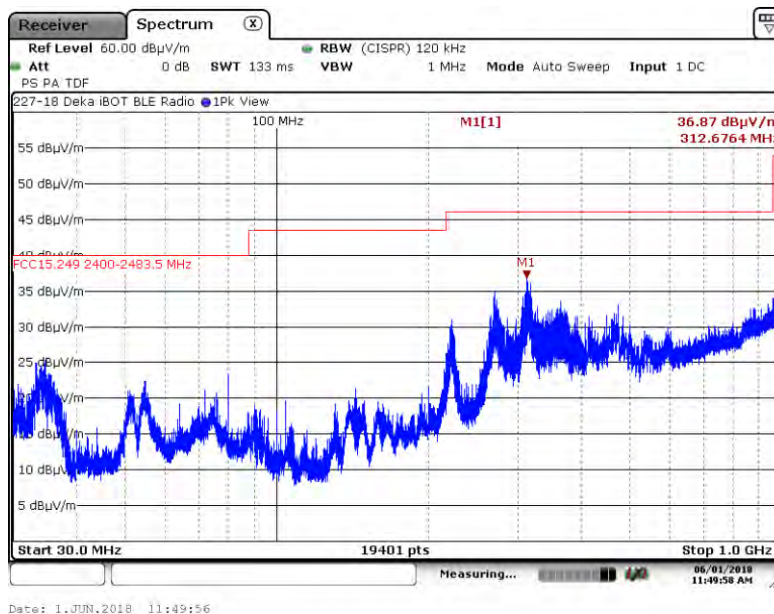


Appendix A (continued)

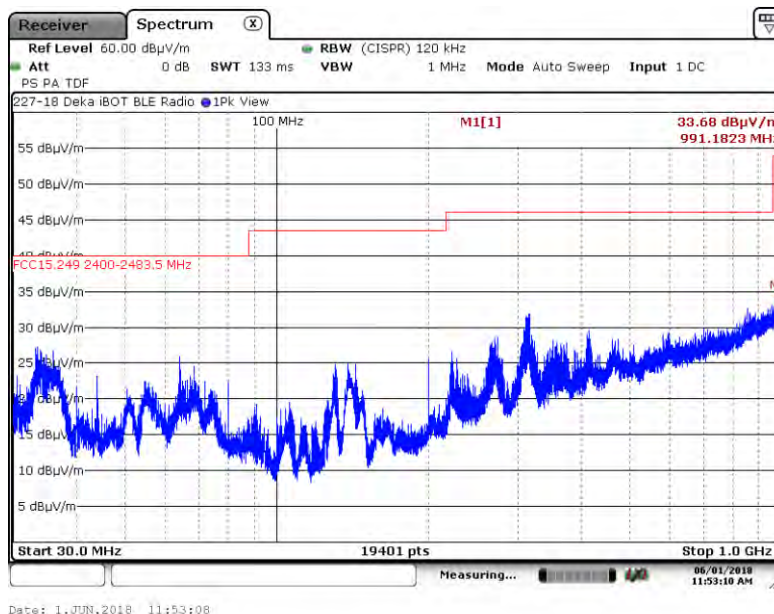
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.10. Spurious Radiated Emissions (30 MHz to 1 GHz) Ch. 17 Measurement Results

A.10.5. Measurement Results – DUT Position: Z-Axis, Horizontal Antenna



A.10.6. Measurement Results – DUT Position: Z-Axis, Vertical Antenna

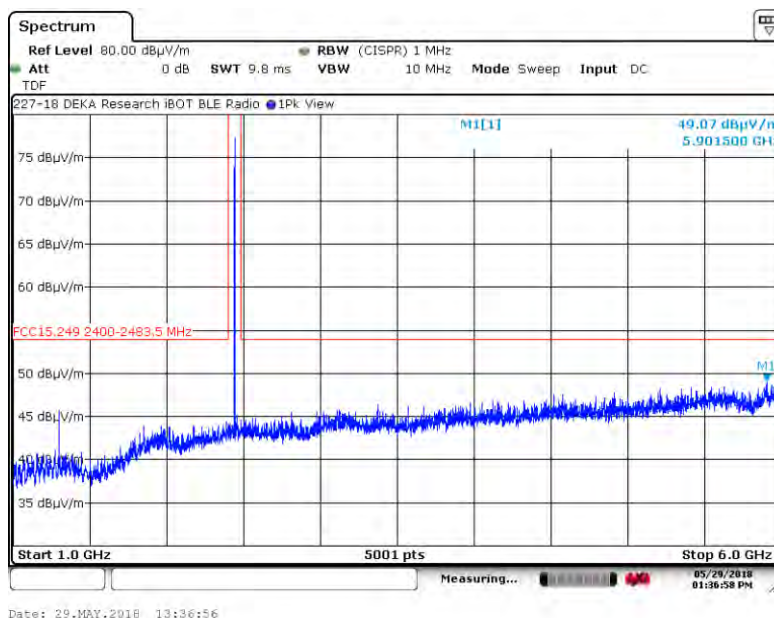


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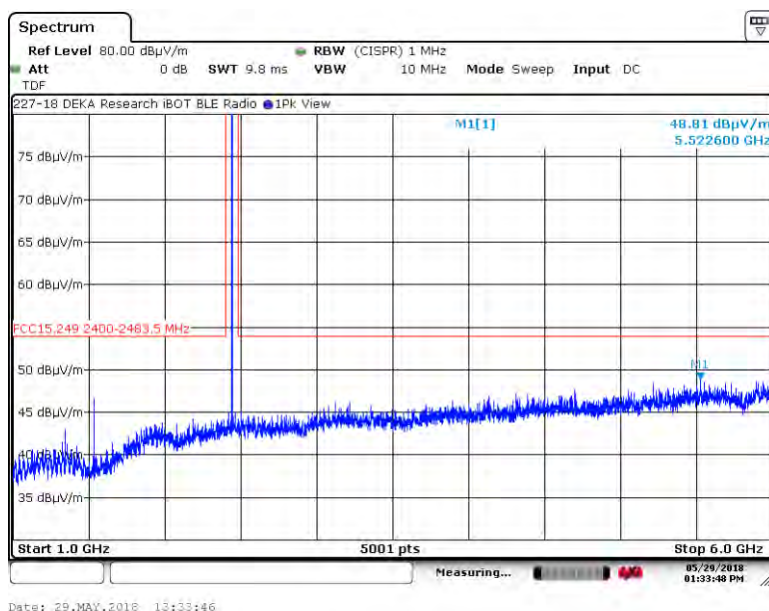
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.11. Spurious Radiated Emissions (1 GHz to 6 GHz) Ch. 17 Measurement Results

A.11.1. Measurement Results – DUT Position: X–Axis, Horizontal Antenna



A.11.2. Measurement Results – DUT Position: X–Axis, Vertical Antenna

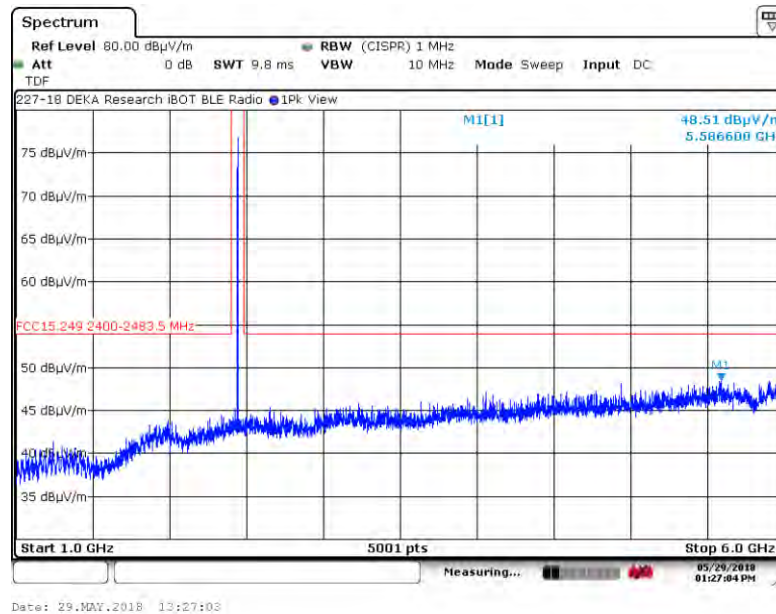


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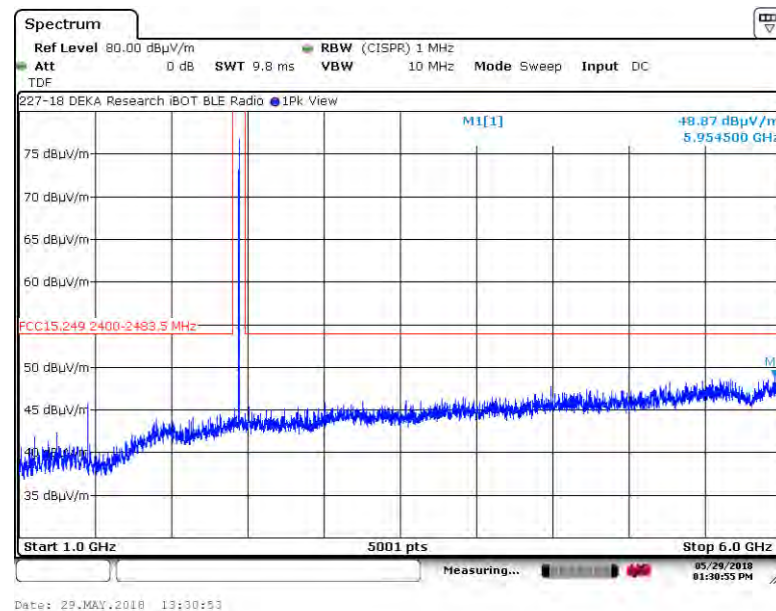
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.11. Spurious Radiated Emissions (1 GHz to 6 GHz) Ch. 17 Measurement Results

A.11.3. Measurement Results – DUT Position: Y–Axis, Horizontal Antenna



A.11.4. Measurement Results – DUT Position: Y–Axis, Vertical Antenna

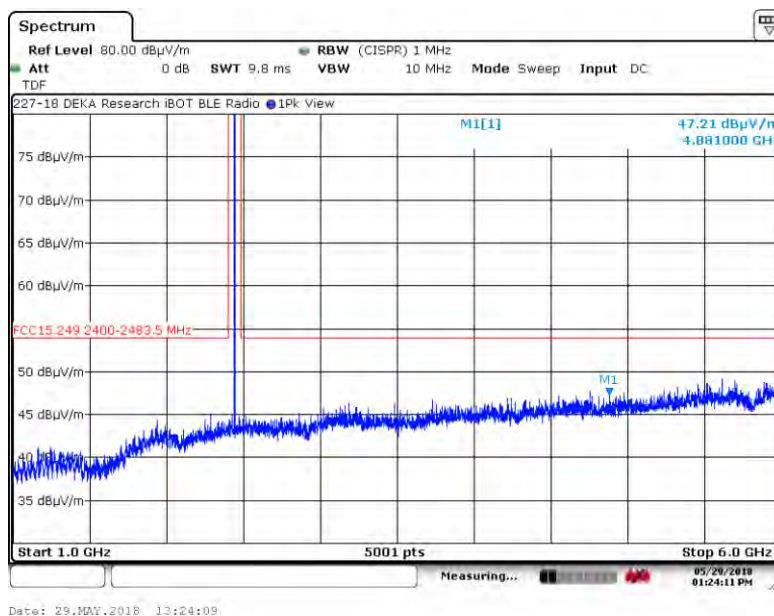


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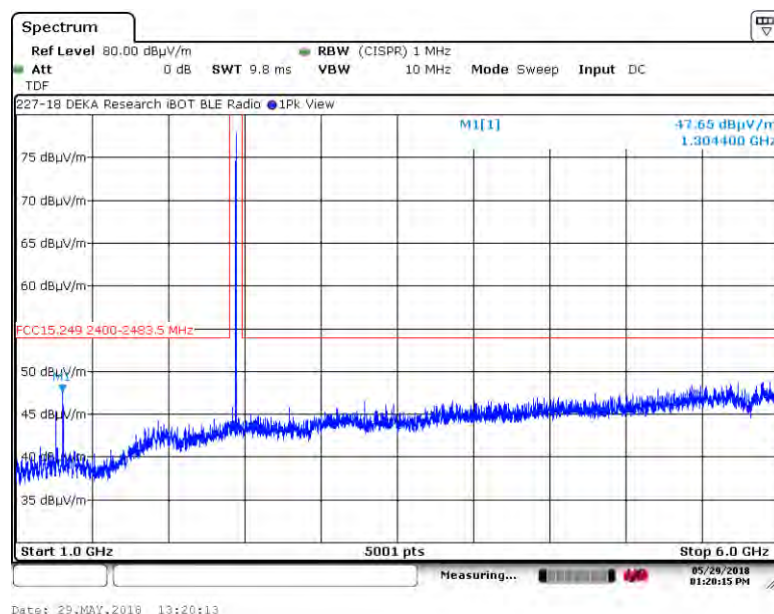
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.11. Spurious Radiated Emissions (1 GHz to 6 GHz) Ch. 17 Measurement Results

A.11.5. Measurement Results – DUT Position: Z-Axis, Horizontal Antenna



A.11.6. Measurement Results – DUT Position: Z-Axis, Vertical Antenna

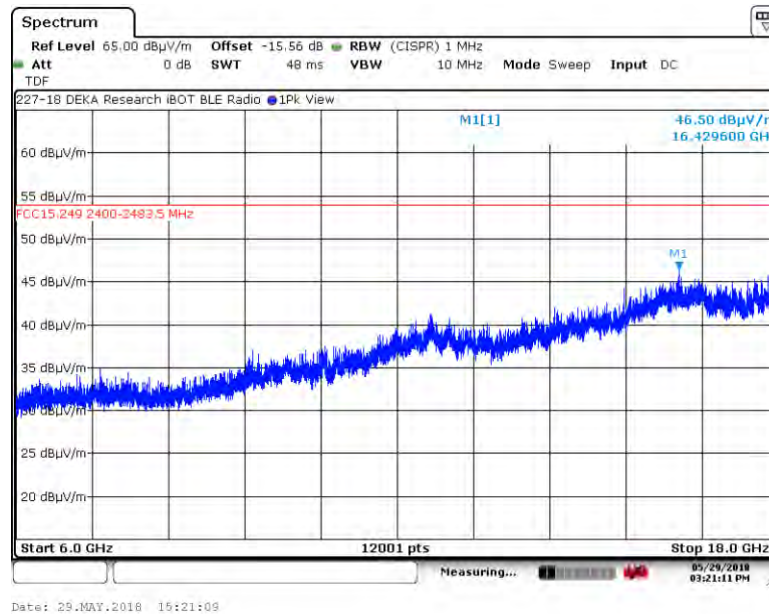


Appendix A (continued)

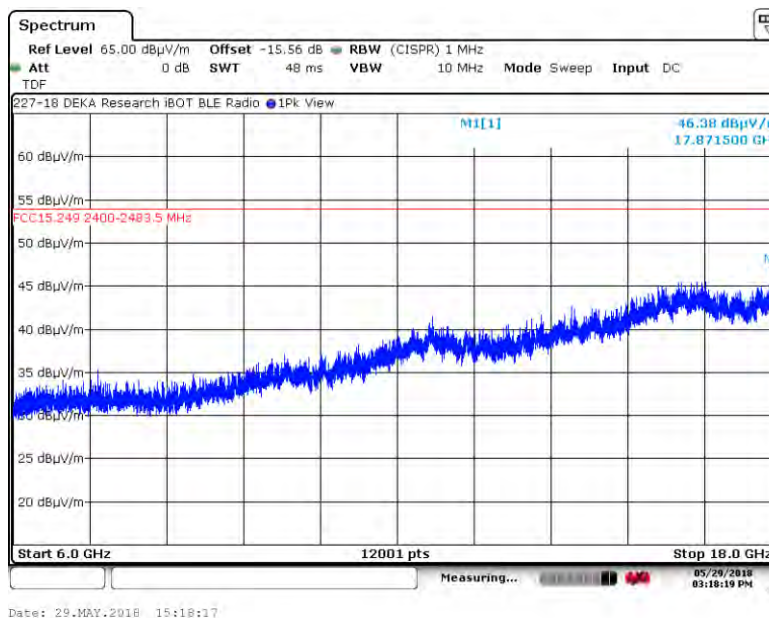
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.12. Spurious Radiated Emissions (6 GHz to 18 GHz) Ch. 17 Measurement Results

A.12.1. Measurement Results – DUT Position: X–Axis, Horizontal Antenna



A.12.2. Measurement Results – DUT Position: X–Axis, Vertical Antenna

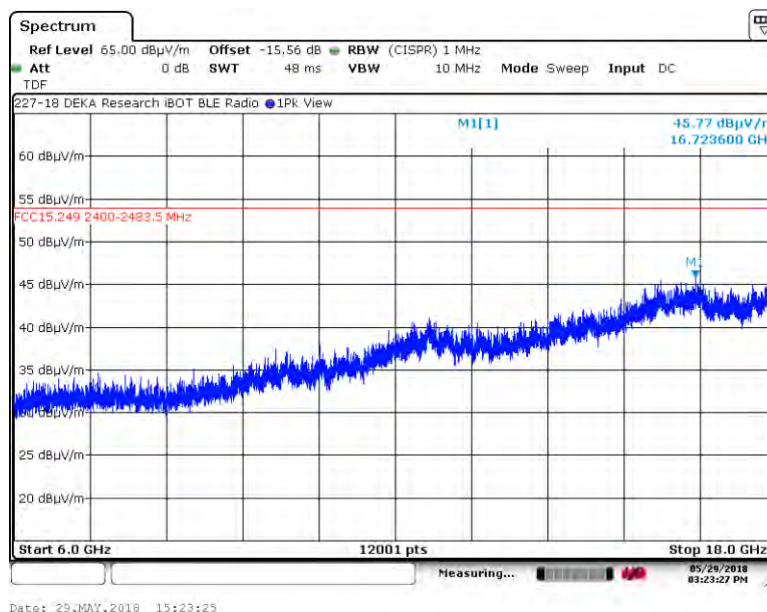


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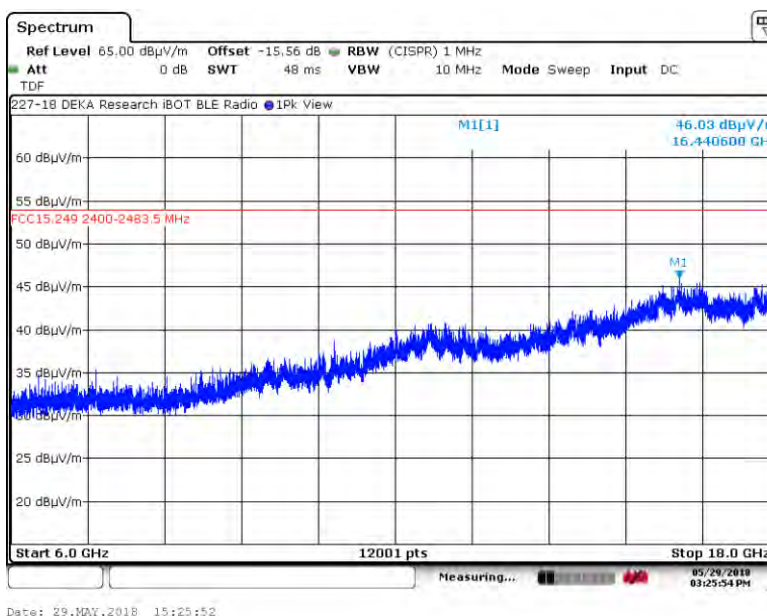
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.19. Spurious Radiated Emissions (6 GHz to 18 GHz) Ch. 17 Measurement Results

A.12.3. Measurement Results – DUT Position: Y–Axis, Horizontal Antenna



A.12.4. Measurement Results – DUT Position: Y–Axis, Vertical Antenna

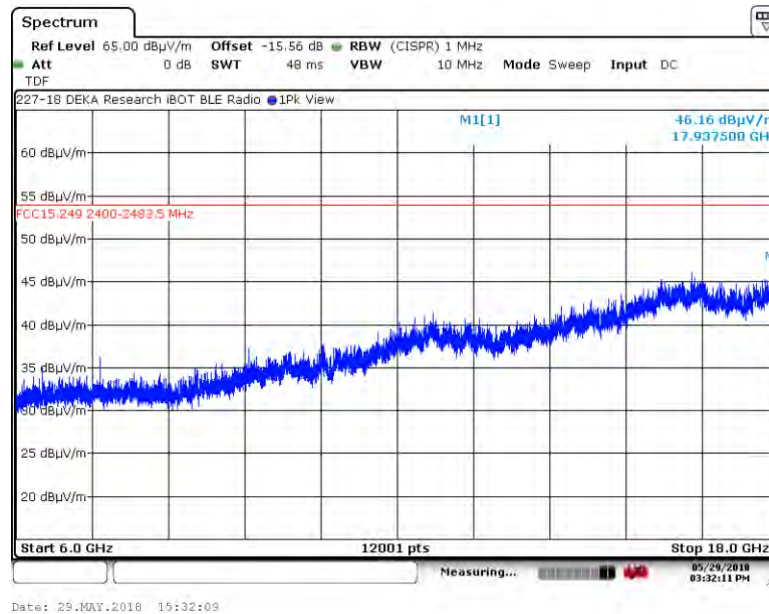


Appendix A (continued)

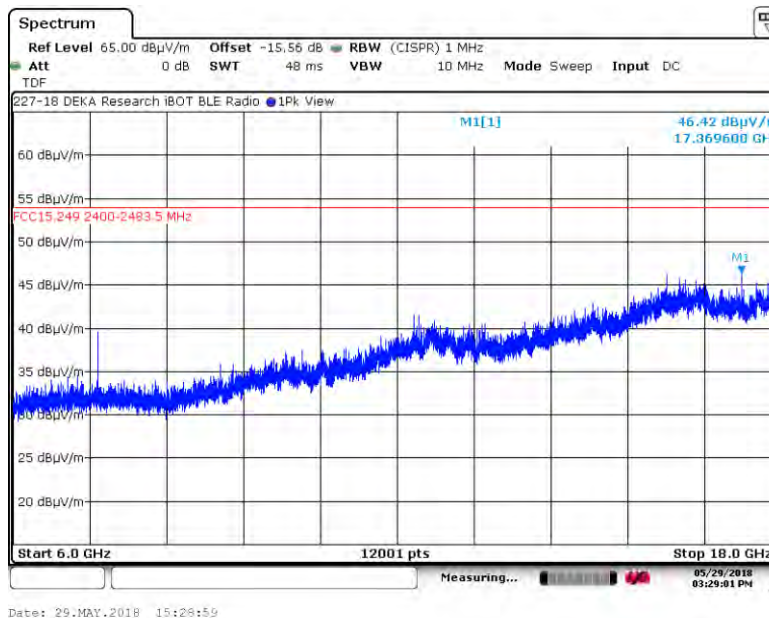
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.12. Spurious Radiated Emissions (6 GHz to 18 GHz) Ch. 17 Measurement Results

A.12.5. Measurement Results – DUT Position: Z-Axis, Horizontal Antenna



A.12.6. Measurement Results – DUT Position: Z-Axis, Vertical Antenna

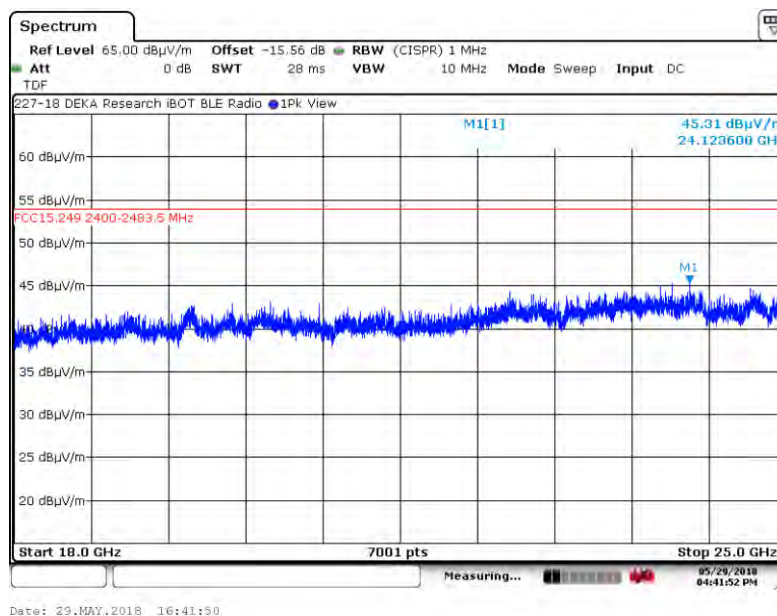


Appendix A (continued)

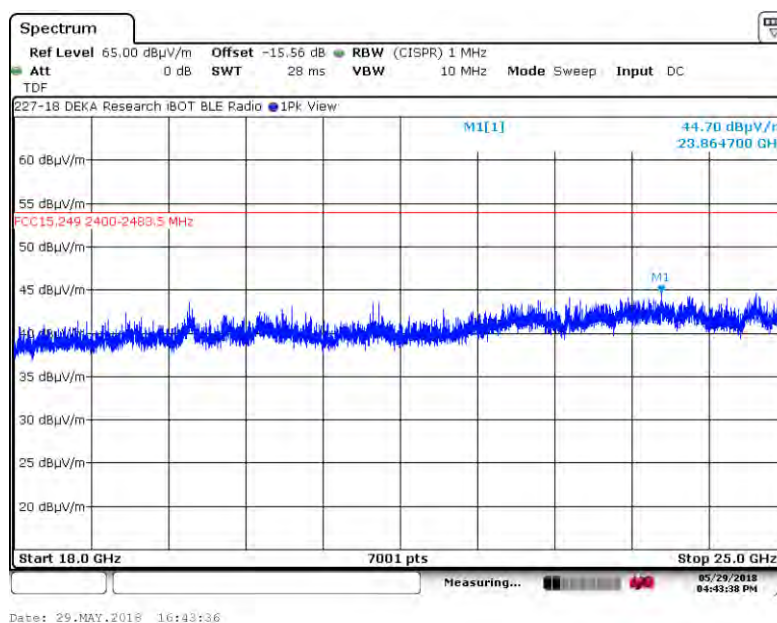
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.13. Spurious Radiated Emissions (18 GHz to 25 GHz) Ch. 17 Measurement Results

A.13.1. Measurement Results – DUT Position: X–Axis, Horizontal Antenna



A.13.2. Measurement Results – DUT Position: X–Axis, Vertical Antenna

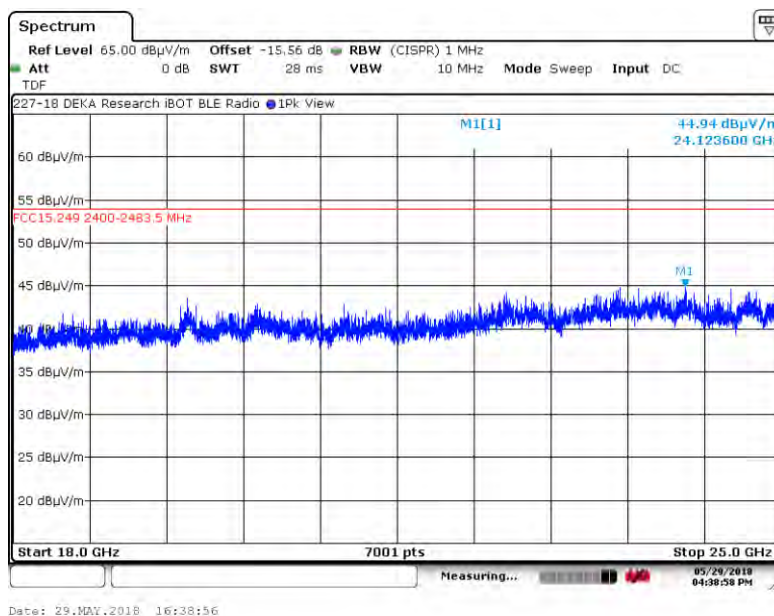


Appendix A (continued)

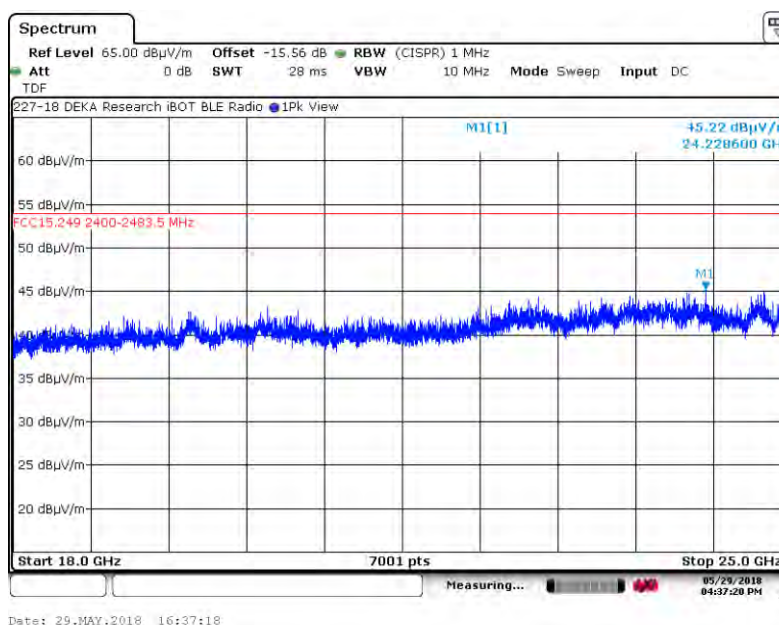
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.13. Spurious Radiated Emissions (18 GHz to 25 GHz) Ch. 17 Measurement Results

A.13.3. Measurement Results – DUT Position: Y–Axis, Horizontal Antenna



A.13.4. Measurement Results – DUT Position: Y–Axis, Vertical Antenna

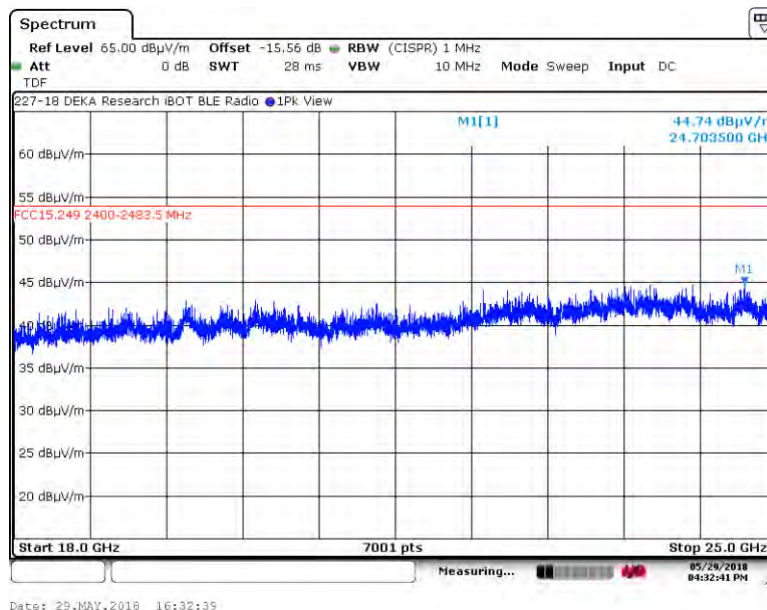


Appendix A (continued)

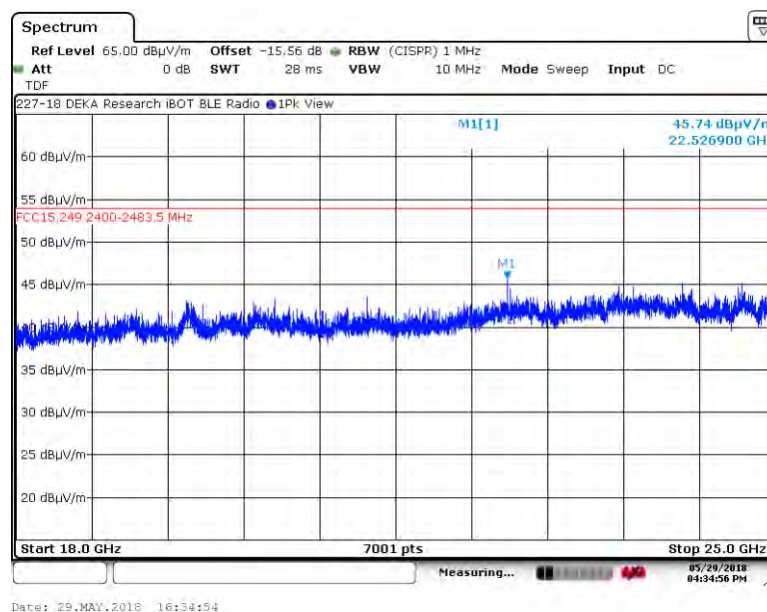
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.13. Spurious Radiated Emissions (18 GHz to 25 GHz) Ch. 17 Measurement Results

A.13.5. Measurement Results – DUT Position: Z-Axis, Horizontal Antenna



A.13.6. Measurement Results – DUT Position: Z-Axis, Vertical Antenna

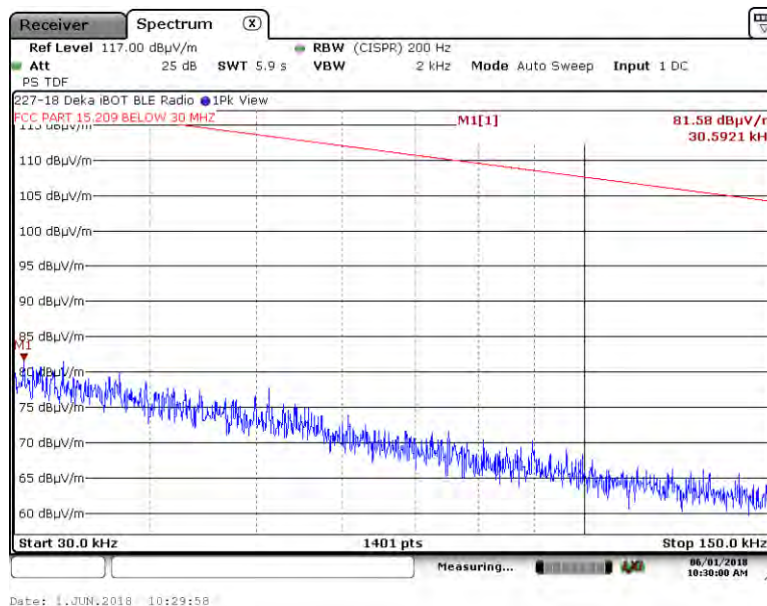


Appendix A (continued)

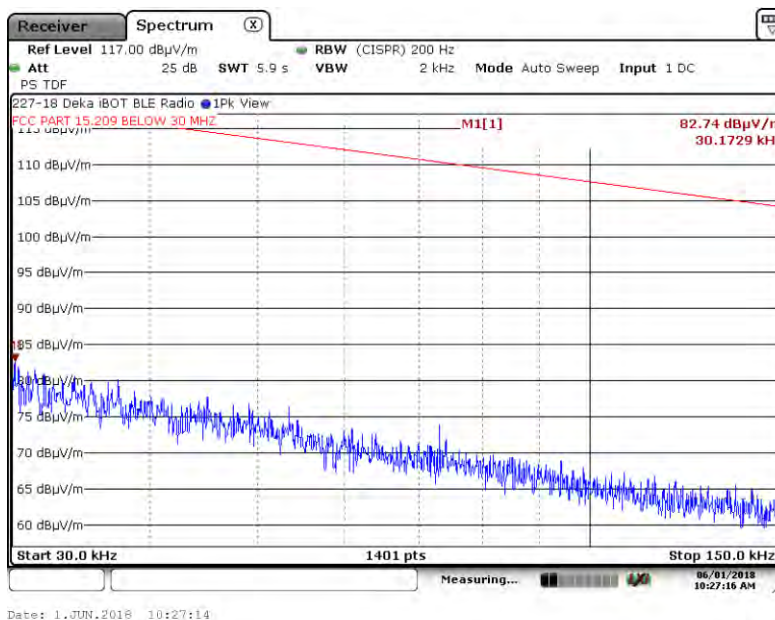
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.15. Spurious Radiated Emissions (30 kHz to 150 kHz) Ch. 39 Measurement Results

A.15.1. Measurement Results – DUT Position: X–Axis, Parallel Antenna



A.15.1.2. Measurement Results – DUT Position: X–Axis, Perpendicular Antenna

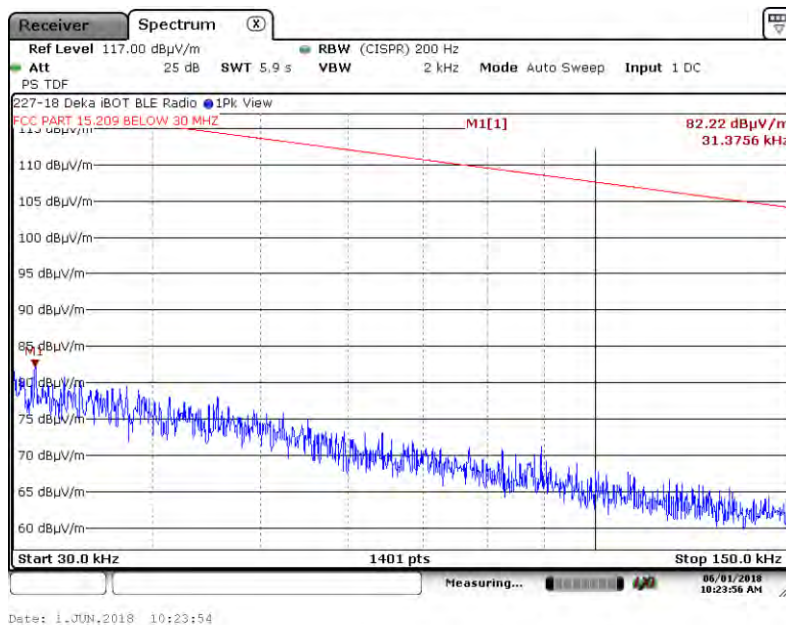


Appendix A (continued)

**Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)**

A.15. Spurious Radiated Emissions (30 kHz to 150 kHz) Ch. 39 Measurement Results

A.15.3. Measurement Results – DUT Position: X-Axis, Ground Parallel Antenna



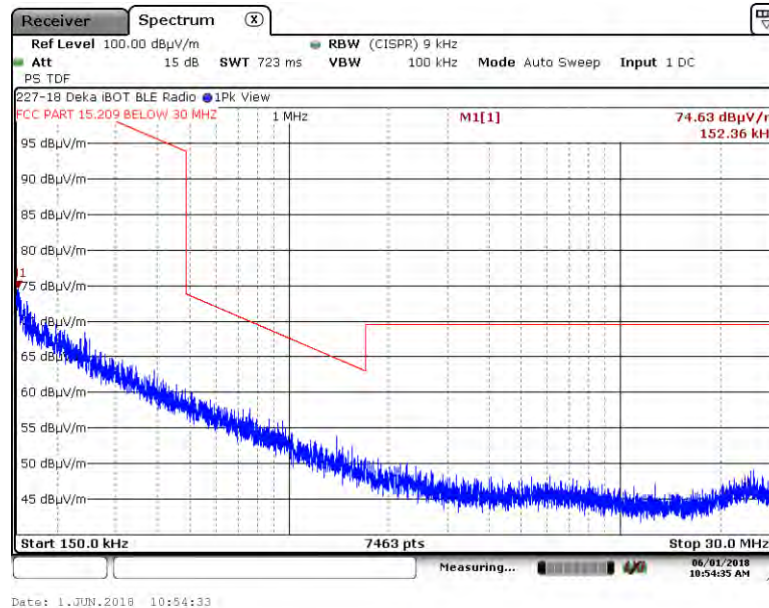
Note: All other orientations were noise floor

Appendix A (continued)

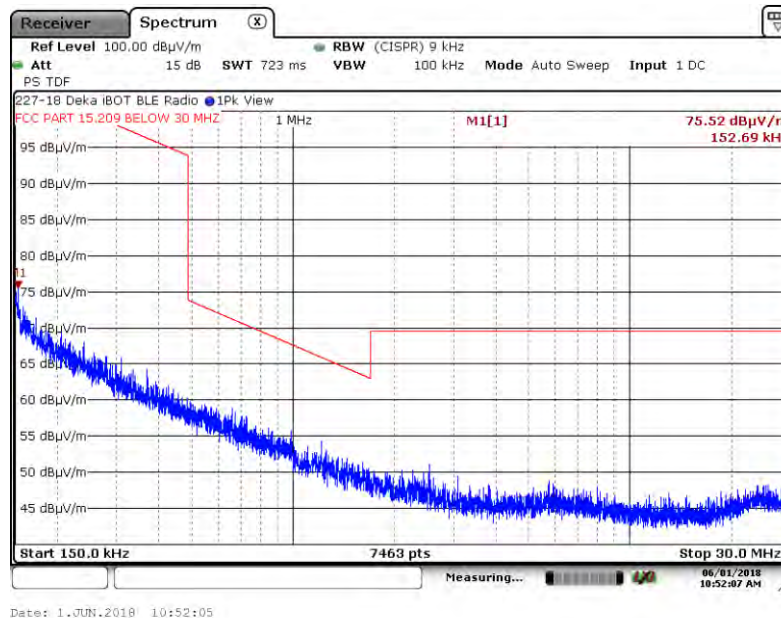
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.16. Spurious Radiated Emissions (150 kHz to 30 MHz) Ch. 39 Measurement Results

A.16.1. Measurement Results – DUT Position: X–Axis, Parallel Antenna



A.16.2. Measurement Results – DUT Position: X–Axis, Perpendicular Antenna

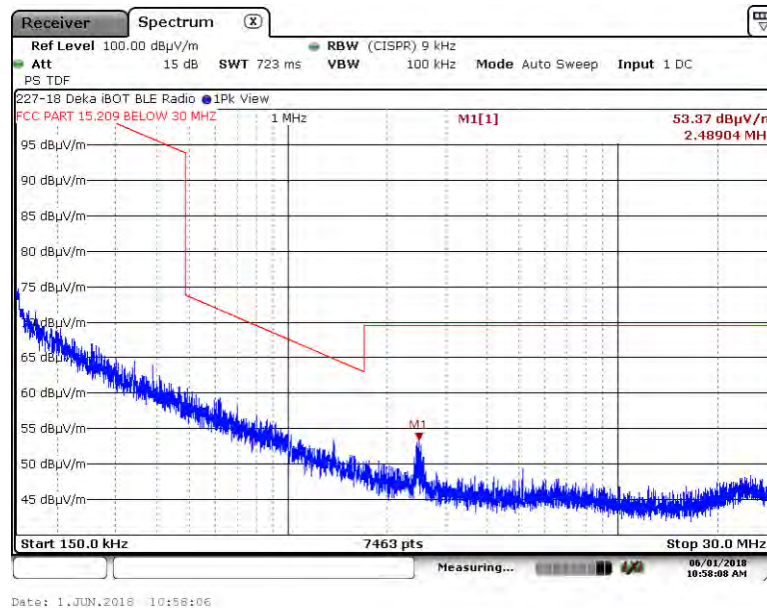


Appendix A (continued)

Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)), IC RSS-GEN, ISSUE 4 (continued)

A.16. Spurious Radiated Emissions (150 kHz to 30 MHz) Ch. 39 Measurement Results

A.16.3. Measurement Results – DUT Position: X-Axis, Ground Parallel Antenna



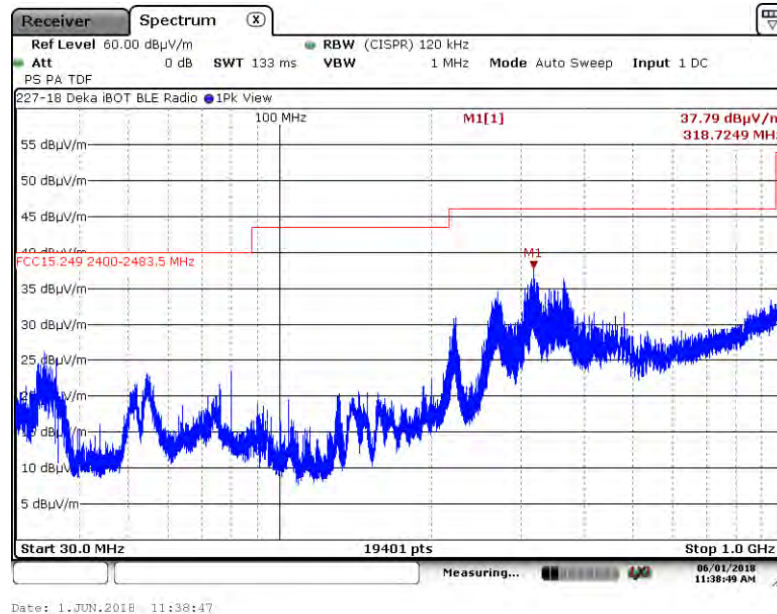
Note: All other orientations were noise floor

Appendix A (continued)

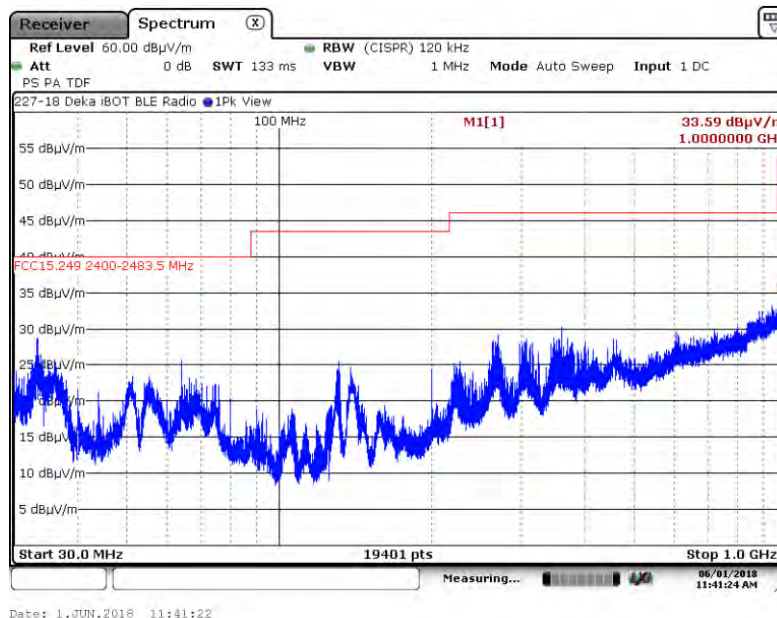
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.17. Spurious Radiated Emissions (30 MHz to 1 GHz) Ch. 39 Measurement Results

A.17.1. Measurement Results – DUT Position: X–Axis, Horizontal Antenna



A.17.2. Measurement Results – DUT Position: X–Axis, Vertical Antenna

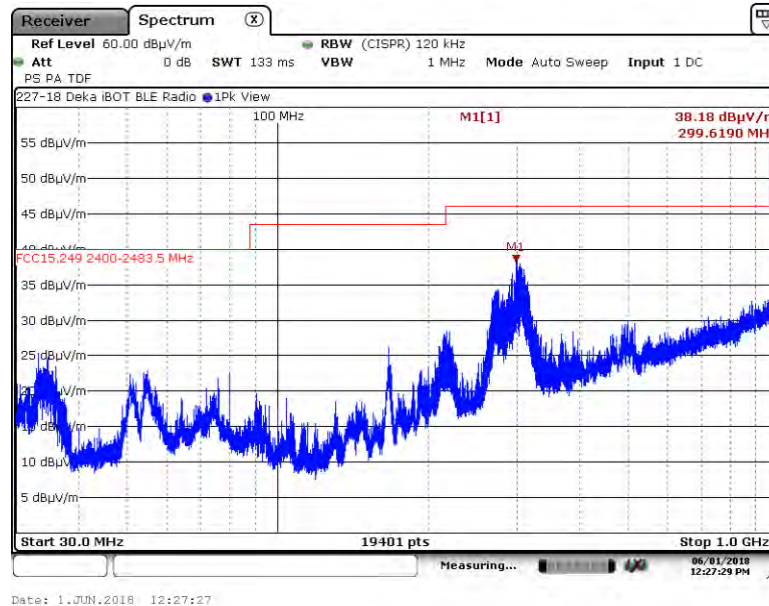


Appendix A (continued)

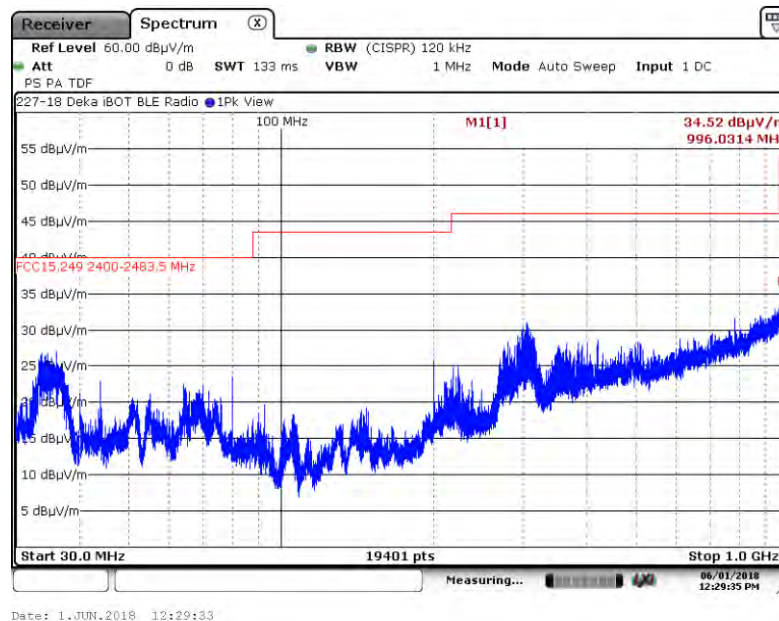
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.17. Spurious Radiated Emissions (30 MHz to 1 GHz) Ch. 39 Measurement Results

A.17.3. Measurement Results – DUT Position: Y-Axis, Horizontal Antenna



A.17.4. Measurement Results – DUT Position: Y-Axis, Vertical Antenna

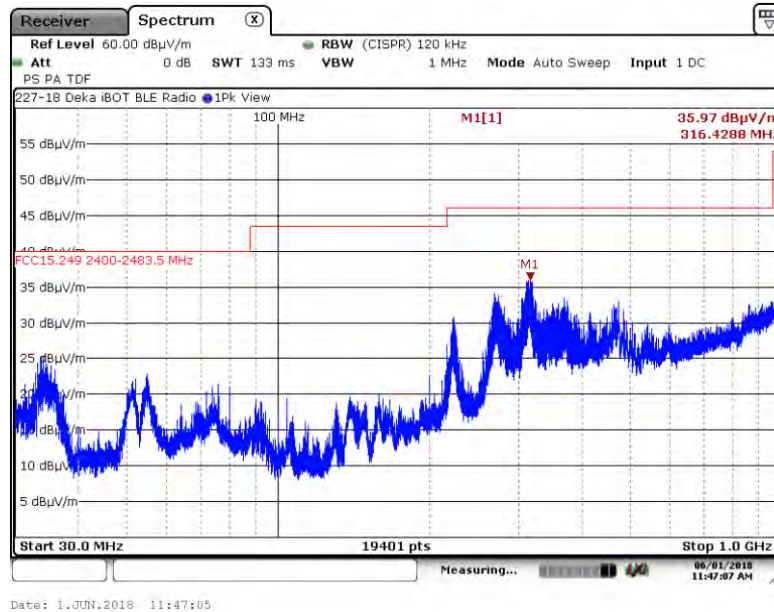


Appendix A (continued)

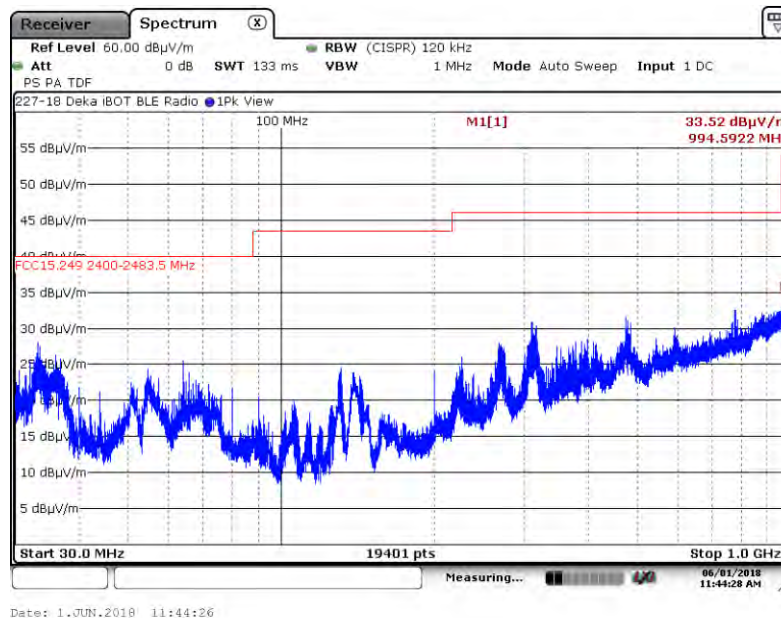
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.17. Spurious Radiated Emissions (30 MHz to 1 GHz) Ch. 39 Measurement Results

A.17.5. Measurement Results – DUT Position: Z-Axis, Horizontal Antenna



A.17.6. Measurement Results – DUT Position: Z-Axis, Vertical Antenna

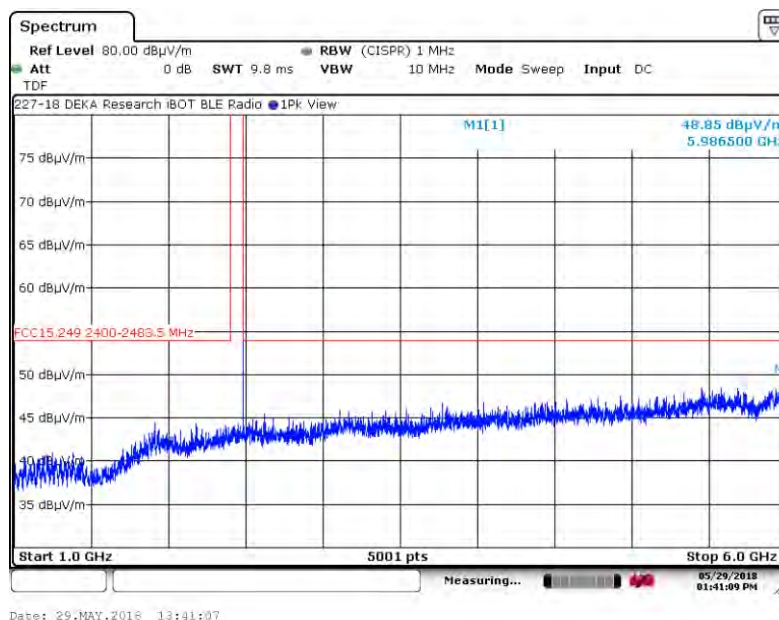


Appendix A (continued)

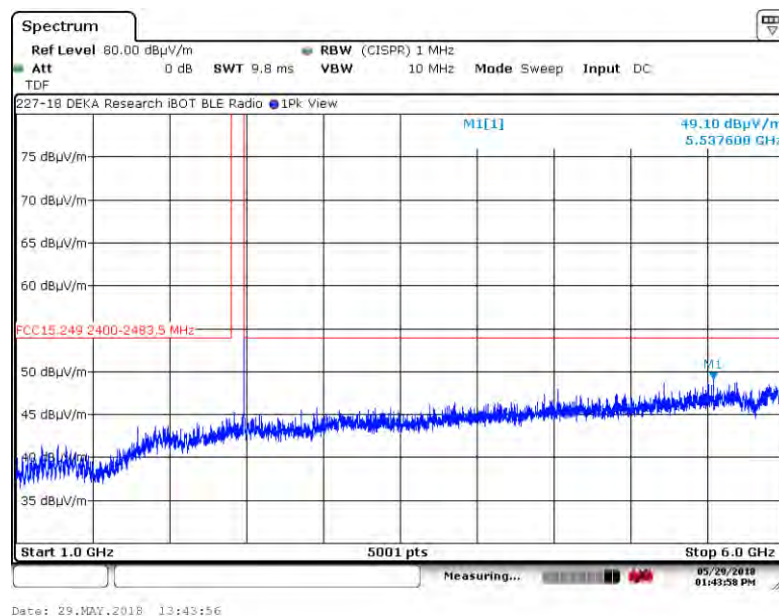
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.18. Spurious Radiated Emissions (1 GHz to 6 GHz) Ch. 39 Measurement Results

A.18.1. Measurement Results – DUT Position: X-Axis, Horizontal Antenna



A.18.2. Measurement Results – DUT Position: X-Axis, Vertical Antenna

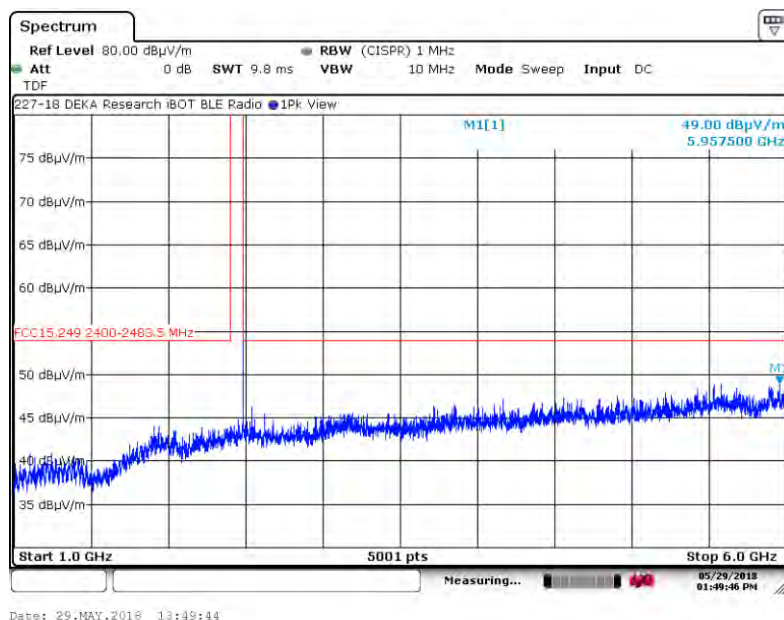


Appendix A (continued)

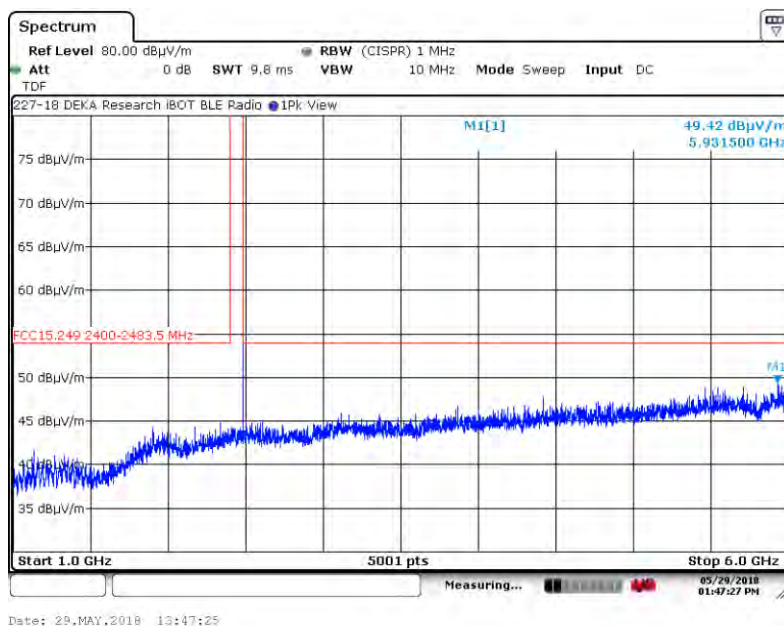
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.18. Spurious Radiated Emissions (1 GHz to 6 GHz) Ch. 39 Measurement Results

A.18.3. Measurement Results – DUT Position: Y–Axis, Horizontal Antenna



A.18.4. Measurement Results – DUT Position: Y–Axis, Vertical Antenna

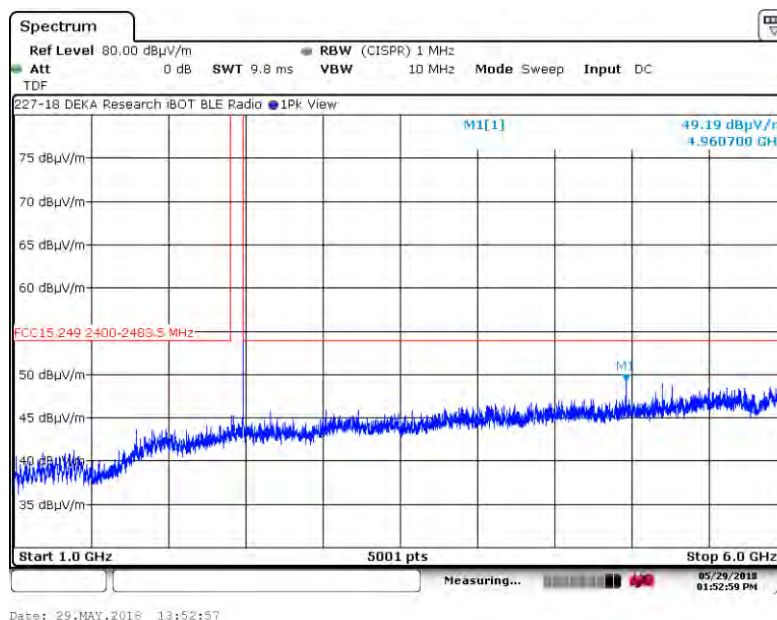


Appendix A (continued)

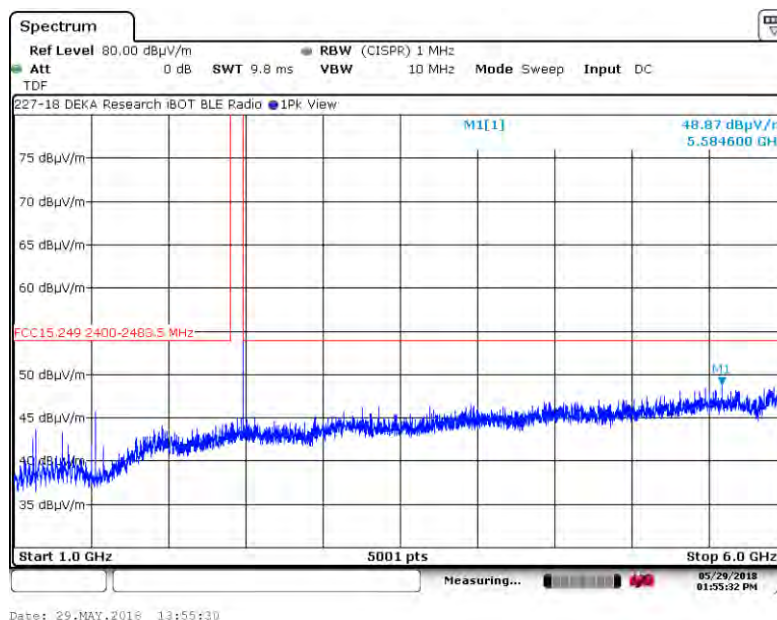
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.18. Spurious Radiated Emissions (1 GHz to 6 GHz) Ch. 39 Measurement Results

A.18.5. Measurement Results – DUT Position: Z-Axis, Horizontal Antenna



A.18.6. Measurement Results – DUT Position: Z-Axis, Vertical Antenna

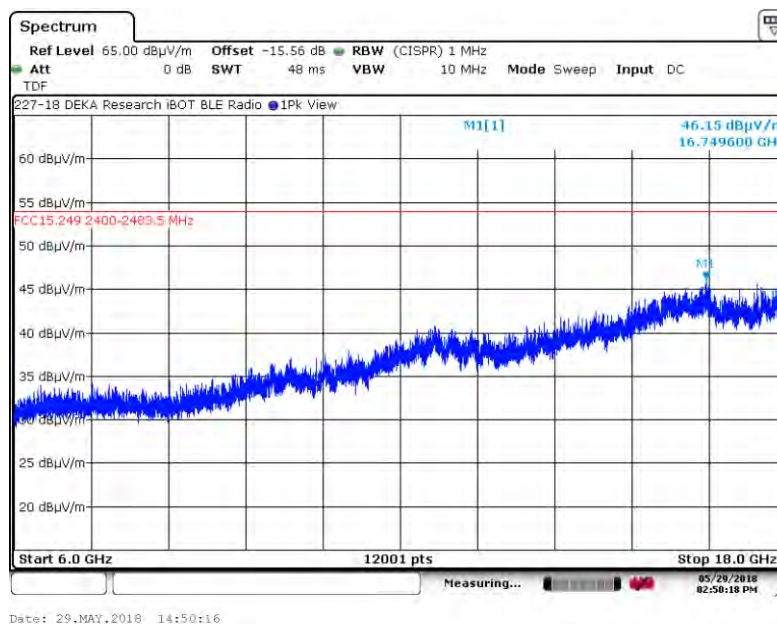


Appendix A (continued)

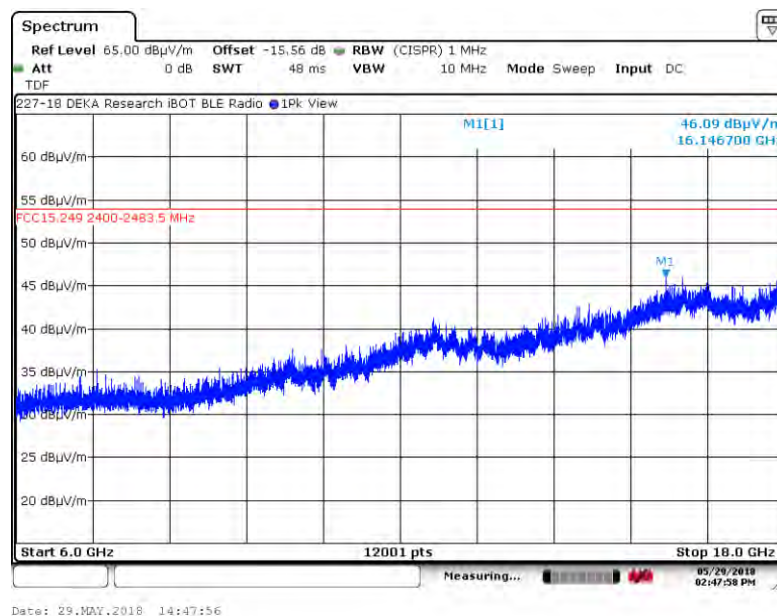
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.19. Spurious Radiated Emissions (6 GHz to 18 GHz) Ch. 39 Measurement Results

A.19.1. Measurement Results – DUT Position: X–Axis, Horizontal Antenna



A.19.2. Measurement Results – DUT Position: X–Axis, Vertical Antenna

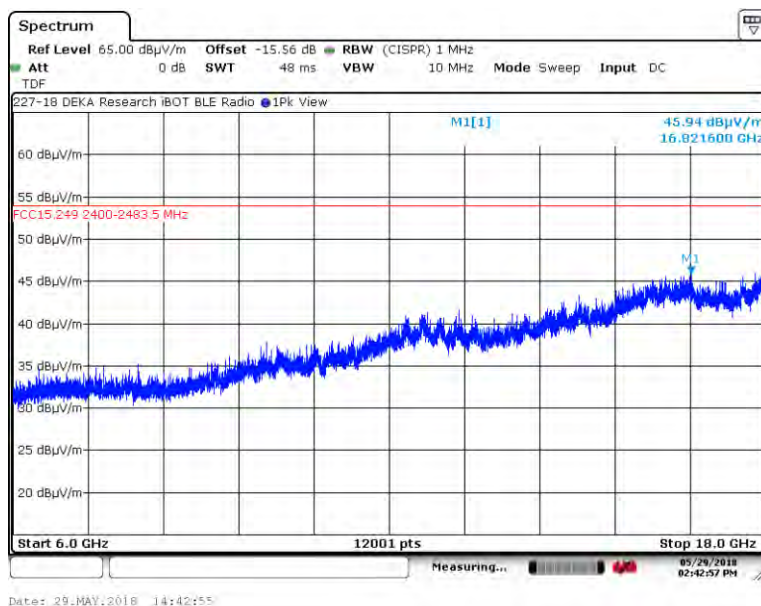


Appendix A (continued)

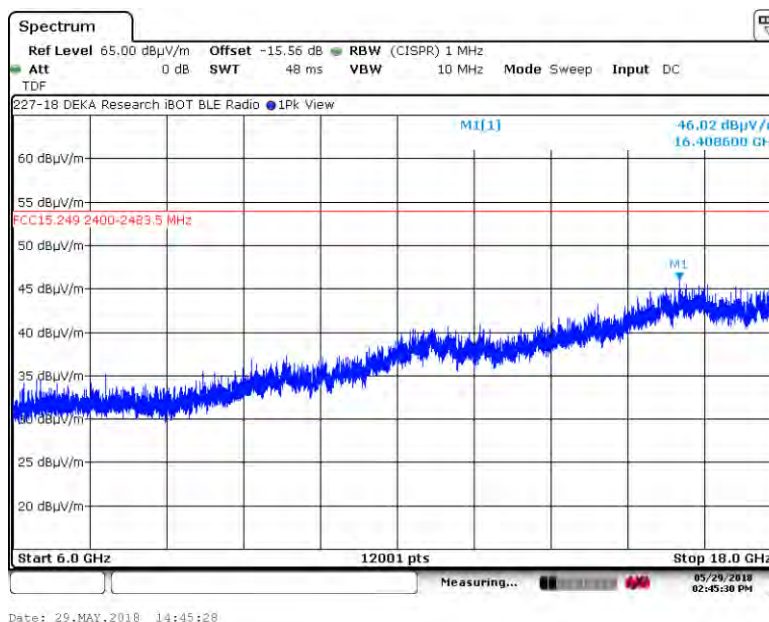
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.19. Spurious Radiated Emissions (6 GHz to 18 GHz) Ch. 39 Measurement Results

A.19.3. Measurement Results – DUT Position: Y–Axis, Horizontal Antenna



A.19.4. Measurement Results – DUT Position: Y–Axis, Vertical Antenna

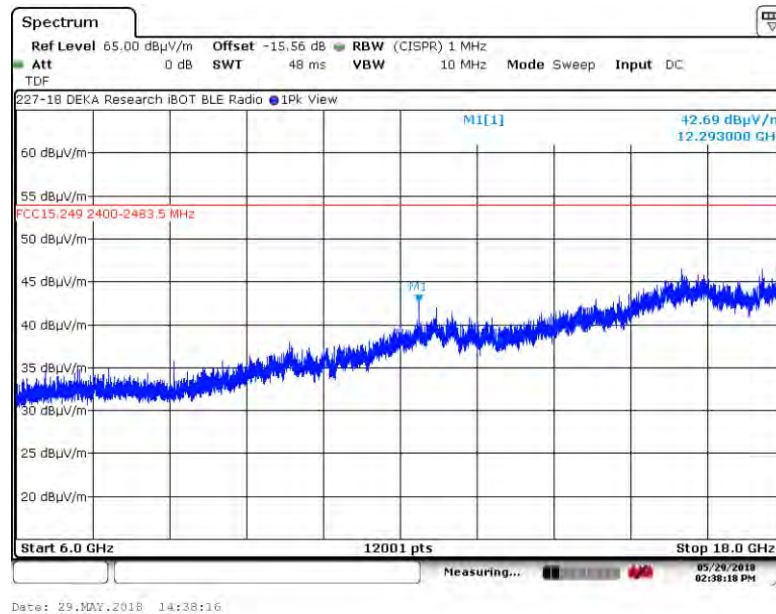


Appendix A (continued)

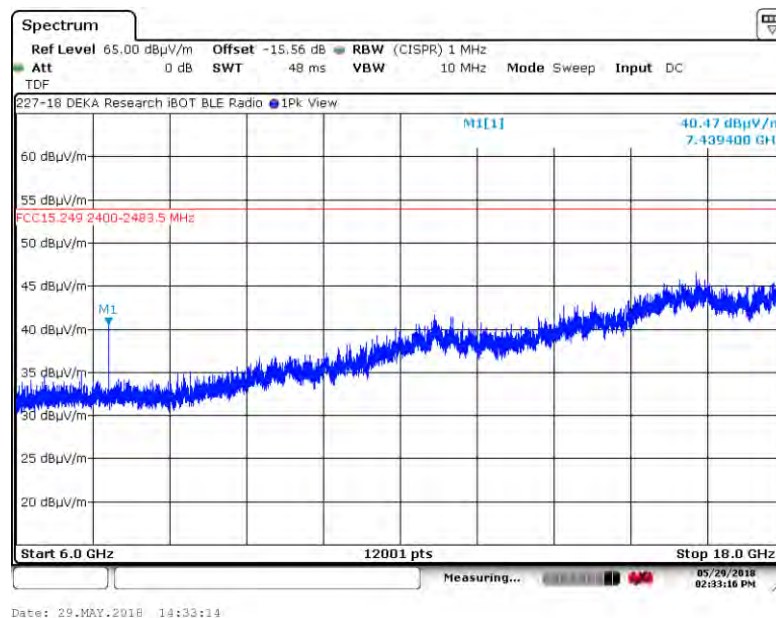
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.19. Spurious Radiated Emissions (6 GHz to 18 GHz) Ch. 39 Measurement Results

A.19.5. Measurement Results – DUT Position: Z-Axis, Horizontal Antenna



A.19.6. Measurement Results – DUT Position: Z-Axis, Vertical Antenna

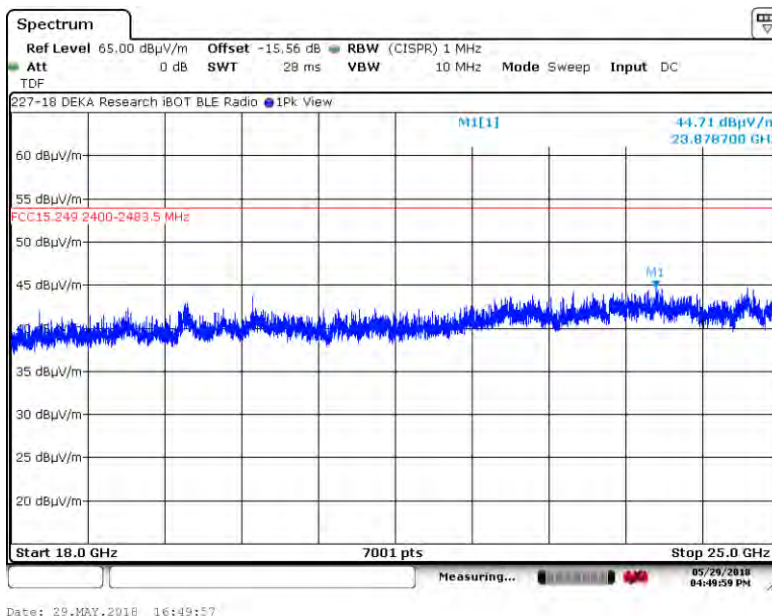


Appendix A (continued)

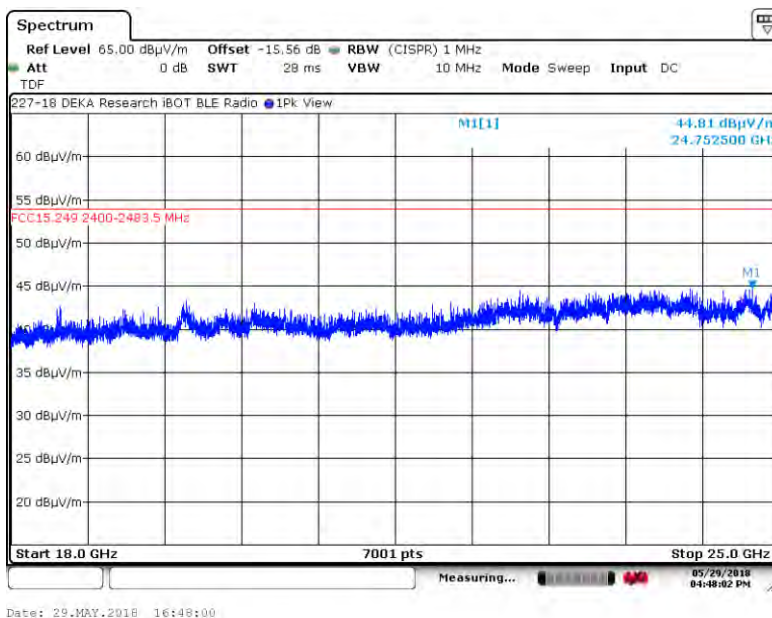
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.20. Spurious Radiated Emissions (18 GHz to 25 GHz) Ch. 39 Measurement Results

A.20.1. Measurement Results – DUT Position: X–Axis, Horizontal Antenna



A.20.2. Measurement Results – DUT Position: X–Axis, Vertical Antenna

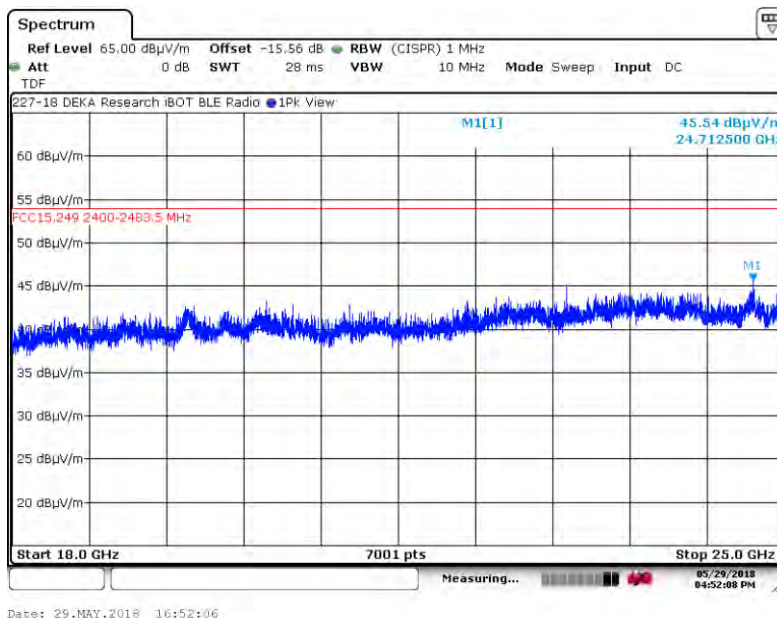


Appendix A (continued)

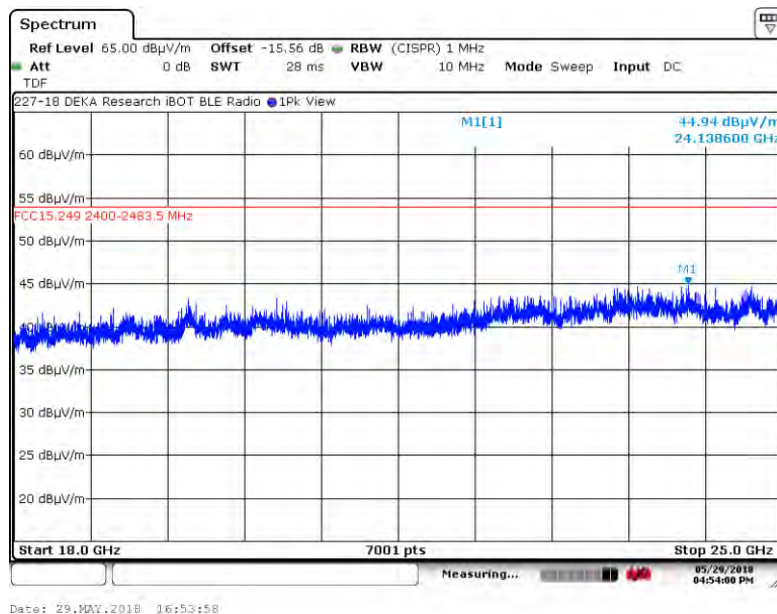
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.20. Spurious Radiated Emissions (18 GHz to 25 GHz) Ch. 39 Measurement Results

A.20.3. Measurement Results – DUT Position: Y–Axis, Horizontal Antenna



A.20.4. Measurement Results – DUT Position: Y–Axis, Vertical Antenna

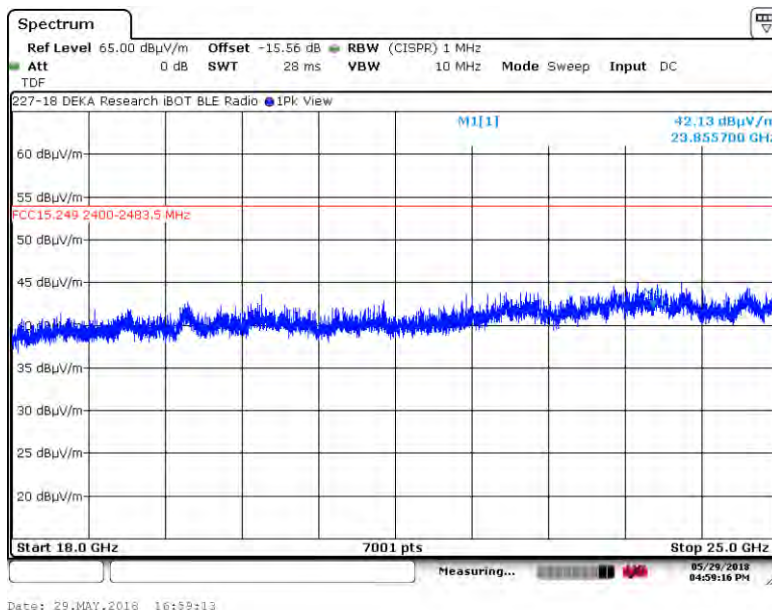


Appendix A (continued)

Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN, ISSUE 4 (continued)

A.20. Spurious Radiated Emissions (18 GHz to 25 GHz) Ch. 39 Measurement Results

A.20.5. Measurement Results – DUT Position: Z-Axis, Horizontal Antenna



A.20.6. Measurement Results – DUT Position: Z-Axis, Vertical Antenna

