

FCC Test Report

For: InfoBionic, Inc.

Model: MoMe Kardia 01854

Product Description:
Wireless Ambulatory ECG Monitoring and Detection System

FCC ID: 2AHLC01854

Per:

47 CFR: Part 22, Part 24, Part 27,

REPORT #: EMC_INFOB-001-16001_FCC_22_24_27 DATE: 2016-05-26



A2LA Accredited

IC recognized # 3462B-1

CETECOM Inc.

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1 Assessment

The following device as further described in section 3 of this report was evaluated against selected applicable criteria specified in the Code of Federal Regulations Title 47 parts 22, 24, 27.

No deficiencies were ascertained.

Company Name	Product Description	Model
InfoBionic, Inc.	Wireless Ambulatory ECG Monitoring and Detection System	MoMe Kardia 01854

Responsible for Testing Laboratory:

2016-05-26	Compliance	(Compliance Manager)	
Date	Section	Name	Signature

Responsible for the Report:

Kris L	.azarov
--------	---------

2016-05-26	Compliance	(EMC Engineer)	
Date	Section	Name	Signature

The test results of this test report relate exclusively to the test item specified in Section3.

CETECOM Inc. USA does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of CETECOM Inc. USA.

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2 Administrative Data

2.1 Identification of the Testing Laboratory Issuing the EMC Test Report

Company Name:	CETECOM Inc.
Department:	Compliance
Street Address:	411 Dixon Landing Road
City/Zip Code	Milpitas, CA 95035
Country	USA
Telephone:	+1 (408) 586 6200
Fax:	+1 (408) 586 6299
Compliance Manager:	Franz Engert
Responsible Project Leader:	Kris Lazarov

2.2 Identification of the Client

Applicant's Name:	InfoBionic, Inc.	
Street Address:	600 Suffolk Street, P.O. Box 9719	
City/Zip Code	Lowell, MA 01853	
Country	USA	
Contact Person:	William McGrail	
Phone No.	978-674-7958	
e-mail:	bmcgrail@infobionic.com	

2.3 Identification of the Manufacturer

Manufacturer's Name:	Same as Applicant
Manufacturers Address:	
City/Zip Code	
Country	

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3 Equipment Under Test (EUT)

3.1 EUT Specifications

Model No		MoMe Kardia 01854					
HW Version			A				
SW Version			0.38				
FCC-ID			2AHL(C01854			
Pro	duct Description		Wirele	ss Ambulatory ECG N	/lonitor	ing and Detection System	
Modul	e Information		Мо	dule: Telit HE910		FCC-ID: RI7HES	910NA
		В	and	UL Frequency (M	Hz)	DL Frequency (MHz)	Modulation
	GSM/GPRS EGPRS	8	50	824.2 – 848.8		869.2 – 839.8	GMSK/8PSK
Mode		19	900	1850.2-1909.8		1930.2 – 1989.8	GMSK/8PSK
Wiode	WCDMA		II	1852.4 – 1907.6	5	1932.2 – 1987.6	QPSK
			IV	1712.4 – 1752.6	6	2112.4-2152.6	QPSK
			V	826.4 - 846.6		871.4 – 891.6	QPSK
Max. documented antenna gain			_	Hz to 849 MHz = 3.69 MHz to 1910 MHz = 3.			
Max. documented average conducted output power including tune up			GSM 8	and 2, 4 and 5 = 23dl 350 = 32.5dBm +1dB 1900 = 29.5dBm +1dE	Tolera	nce	
Opera	ting Voltage Range	•	Vmin: 3.4V DC / Vnom: 3.8V DC / Vmax: 4.2V DC				
Operating Temperature Range			-10 °C to 50 °C				
Other Radios included in the device			N/A				
Sample Revision			■Prot	otype □Prod	uction	☐ Pre-Production	
E	EUT Dimensions			m x 60 mm x 20 mm			
EUT Diameter			■ < 60) cm ☐ Oth	er		

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3.2 EUT Sample details

EUT # Serial Number		HW Version	SW Version	Comments
1	353836054957774	А	0.3	Radiated Measurements
2	353836054905187	336054905187 A 0.3 Conducted Measu		Conducted Measurements

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3.3 Test Sample Configuration

Set-up #	EUT / AE used for set-up	Comments
1	EUT #1	Radiated Measurements
2	EUT #2	Conducted Measurements

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4 Subject of Investigation

The objective of the evaluation conducted by CETECOM Inc. is to support a request for new equipment authorization under FCC ID: 2AHLC01854.

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According to the guidelines from FCC KDB 996369 for the product under evaluation, and the pre-certified module to be integrated (Telit HE910) as described in Section 3, the output power has been verified to be within the specified production tolerances and measurement uncertainties, and where relevant test procedures did not change the conducted test results from module certification are re-used. Full Radiated Spurious Emissions test was conducted, per Code of Federal Regulations Title 47 parts 22, 24, 27, and Industry Canada Radio Standard Specifications RSS: 132 Issue 3, 133 Issue 6, and 139 Issue 3.

The module test data can be obtained under the FCC Filing ID: RI7HE910NA.

4.1 Dates of Testing:

03/24/2016 - 03/25/2016

4.2 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus, with 95% confidence interval (in dB delta to result), based on a coverage factor k=1.

Radiated measurement

9 kHz to 30MHz ±2.5 dB (Magnetic Loop Antenna) 30 MHz to 1000 MHz ±2.0 dB (Biconilog Antenna) 1 GHz to 40 GHz ±2.3 dB (Horn Antenna)

Conducted measurement

150 kHz to 30 MHz ± 0.7 dB (LISN)

RF conducted measurement ±0.5 dB

4.3 Environmental Conditions during Testing:

The following environmental conditions were maintained during the course of testing:

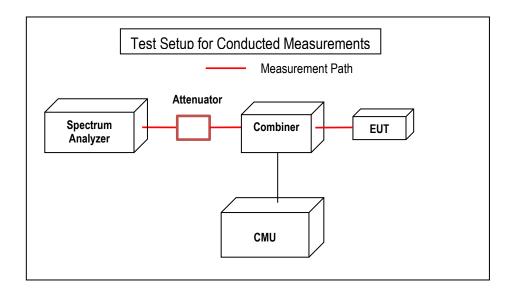
- Ambient Temperature: 20-25°C
- Relative humidity: 40-60%

Deviating test conditions are indicated at individual test description where applicable.



5 Measurement Procedures

Testing is performed according to the guidelines provided in FCC publication (KDB) 971168 D01 v02r02 – "Measurement Guidance for Certification of Licensed Digital Transmitters" and according to relevant parts of TIA-603C 2004 as detailed below.

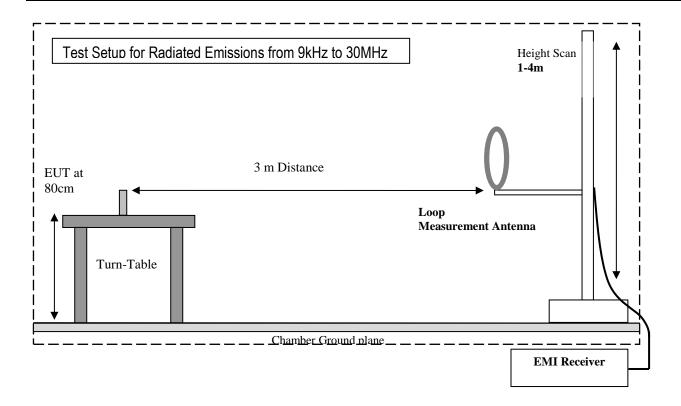


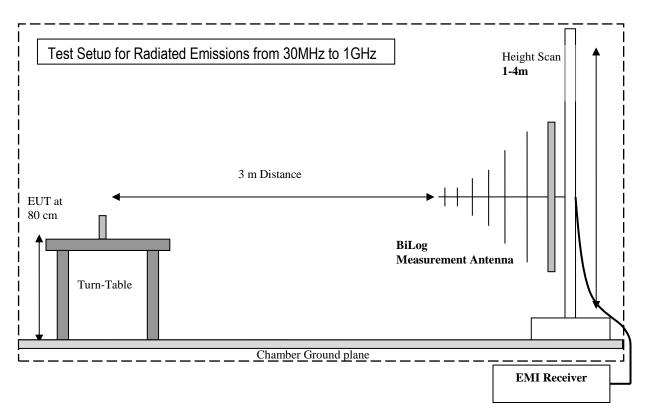
5.1 Radiated Measurement

- The exploratory measurement is accomplished by running a matrix of 16 sweeps over the required frequency range with R&S Test-SW EMC32 for 4 positions of the turntable, two orthogonal positions of the EUT and both antenna polarizations. This procedure exceeds the requirement of the above standards to cover the 3 orthogonal axis of the EUT. A max peak detector is utilized during the exploratory measurement. The Test-SW creates an overall maximum trace for all 12 sweeps and saves the settings for each point of this trace. The maximum trace is part of the test report.
- The 10 highest emissions are selected with an automatic algorithm of EMC32 searching for peaks in the noise floor and ensuring that broadband signals are not selected multiple times.
- The maxima are then put through the final measurement and again maximized in a 90deg range of the turntable, fine search in frequency domain and height scan between 1m and 4m.
- The above procedure is repeated for all possible ways of power supply to EUT and for all supported modulations.
- In case there are no emissions above noise floor level only the maximum trace is reported as described above.
- The results are split up into up to 4 frequency ranges due to antenna bandwidth restrictions. A magnetic loop is used from 9 kHz to 30 MHz, a Biconilog antenna is used from 30 MHz to 1 GHz, and two different horn antennas are used to cover frequencies up to 40 GHz.

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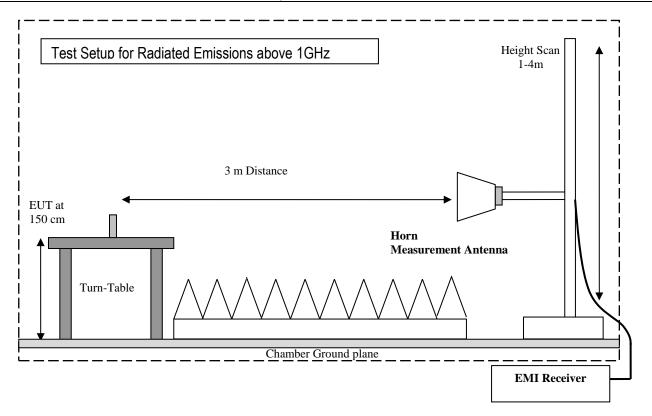




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5.2 Sample Calculations for Field Strength Measurements

Field Strength is calculated from the Spectrum Analyzer/ Receiver readings, taking into account the following parameters:

- Measured reading in dBµV
- Cable Loss between the receiving antenna and SA in dB and
- Antenna Factor in dB/m

All radiated measurement plots in this report are taken from a test SW that calculates the Field Strength based on the following equation:

FS (dBµV/m) = Measured Value on SA (dBµV)- Cable Loss (dB)+ Antenna Factor (dB/m)

Example:

Frequency	Measured SA	Cable Loss	Antenna Factor Correction (dB)	Field Strength Result
(MHz)	(dBµV)	(dB)		(dBµV/m)
1000	80.5	3.5	14	98.0

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6 Measurement Results Summary

6.1 FCC 22:

Test Specification	Test Case	Temperature and Voltage Conditions	Mode	Pass	Fail	NA	NP	Result
§2.1046; §22.913 (a)	RF Output Power	Nominal	GSM WCDMA					Complies Note 2; 3
§2.1055; §22.355	Frequency Stability	Nominal	GSM WCDMA					Complies Note 3
§2.1049; §22.917	Occupied Bandwidth	Nominal	GSM WCDMA					Complies Note 3
§2.1051; §22.917	Band Edge Compliance	Nominal	GSM WCDMA					Complies Note 3
§2.1051; §22.917	Conducted Spurious Emissions	Nominal	GSM WCDMA					Complies Note 3
§2.1053; §22.917	Radiated Spurious Emissions	Nominal	GSM WCDMA					Complies

Note 1: NA= Not Applicable; NP= Not Performed.

Note 2: Partial RF Output Power test intended for power verification on mid channel of applicable frequency band – see section 7.1.

Note 3: Leveraged from module certification.

6.2 FCC 24:

Test Specification	Test Case	Temperature and Voltage Conditions	Mode	Pass	Fail	NA	NP	Result
§2.1046; §24.232 (a)	RF Output Power	Nominal	GSM WCDMA					Complies Note 2; 3
§2.1055; §24.235	Frequency Stability	Nominal	GSM WCDMA					Complies Note 3
§2.1049; §24.238	Occupied Bandwidth	Nominal	GSM WCDMA					Complies Note 3
§2.1051; §24.238	Band Edge Compliance	Nominal	GSM WCDMA					Complies Note 3
§2.1051; §24.238	Conducted Spurious Emissions	Nominal	GSM WCDMA					Complies Note 3
§2.1053; §24.238	Radiated Spurious Emissions	Nominal	GSM WCDMA					Complies

Note 1: NA= Not Applicable; NP= Not Performed.

Note 2: Partial RF Output Power test intended for power verification on mid channel of applicable frequency band – see section 7.1.

Note 3: Leveraged from module certification.

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6.3 FCC 27:

Test Specification	Test Case	Temperature and Voltage Conditions	Mode	Pass	Fail	NA	NP	Result
§2.1046; §27.50 (d)	RF Output Power	Nominal	GSM WCDMA					Complies Note 2; 3
§2.1055; §27.54	Frequency Stability	Nominal	GSM WCDMA					Complies Note 3
§2.1049; §27.53	Occupied Bandwidth	Nominal	GSM WCDMA					Complies Note 3
§2.1051; §27.53	Band Edge Compliance	Nominal	GSM WCDMA					Complies Note 3
§2.1051; §27.53	Conducted Spurious Emissions	Nominal	GSM WCDMA					Complies Note 3
§2.1053; §27.53	Radiated Spurious Emissions	Nominal	GSM WCDMA					Complies

Note 1: NA= Not Applicable; NP= Not Performed.

Note 2: Partial RF Output Power test intended for power verification on mid channel of applicable frequency band – see section 7.1. Note 3: Leveraged from module certification.

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7 **Test Result Data**

7.1 **RF Output Power Verification**

7.1.1 Conducted Measurement according to: FCC: CFR 47 Part 2.1046; CFR Part 22.913; Part 24.232; Part 27.50, utilizing KDB 971168 D01 Power Meas License Digital Systems v02r02 -Section 5.2.1

Spectrum Analyzer settings for CCDF procedure for conducted output power / PAPR measurements:

- RBW ≥ OBW
- Number of counts = 10000
- Sweep time ≥ 1ms
- Record the Mean Power level
- Record the maximum PAPR level associated with a probability of 0.1%

7.1.2 Limits:

- The measured output power shall be within +0.5dB and -2.5dB from the modular report power.
- The power measured on the mid channel of each RF band of operation will be compared to the Max. Output Power from the modular reports as indicated in the table below:

RF Band	Test Lab	Report Number	Report Date
GSM/GPRS 850	A Test Lab Techno Corp.	1204FR16	Apr. 13, 2012
GSM/GPRS 1900	A Test Lab Techno Corp.	1204FR16	Apr. 13, 2012
WCDMA II	A Test Lab Techno Corp.	1204FR16	Apr. 13, 2012
WCDMA IV	A Test Lab Techno Corp.	1204FR18	Apr. 13, 2012
WCDMA V	A Test Lab Techno Corp.	1204FR16	Apr. 13, 2012

Test conditions and setup: 7.1.3

Ambient Temperature (C)	EUT Set-Up#	EUT operating mode	Power Input	Measurement Path Correction
22	2	GSM 850 / 1900 FDD II / FDD IV / FDD V	Batery	19.5 dB up to 1GHz 20 dB up to 2 GHz

Note 1: Measurement Path accounts for the attenuation of the temporary affixed RF connector to the module output

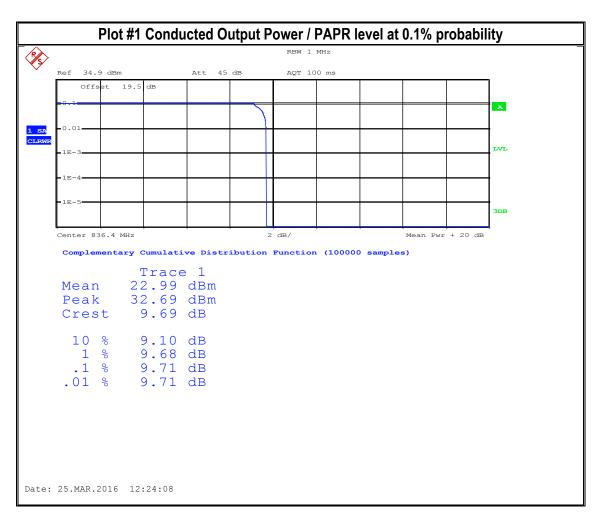
7.1.4 Measurement result ERP / EIRP:

Plot #	Chanel #	Frequency (MHz)	Measured Maximum AVG Conducted Output Power (dBm)	AVG Conducted Output Power From Modular Report (dBm)	Output Power Delta (dB)	Result
1	190 (GSM 850)	836.4	31.99 (See note 1)	32.13	-0.14	Pass
2	661 (GSM 1900)	1880	28.49 (See note 1)	28.94	-0.45	Pass
3	9400 (FDD II)	1880	20.99	23.31	-2.32	Pass
4	1413 (FDD IV)	1732.6	21.37	23.51	-2.14	Pass
5	4183 (FDD V)	836.4	21.88	23.58	-1.70	Pass

Note 1: Measurement results are adjusted for GSM duty cycle by adding (+9dB)



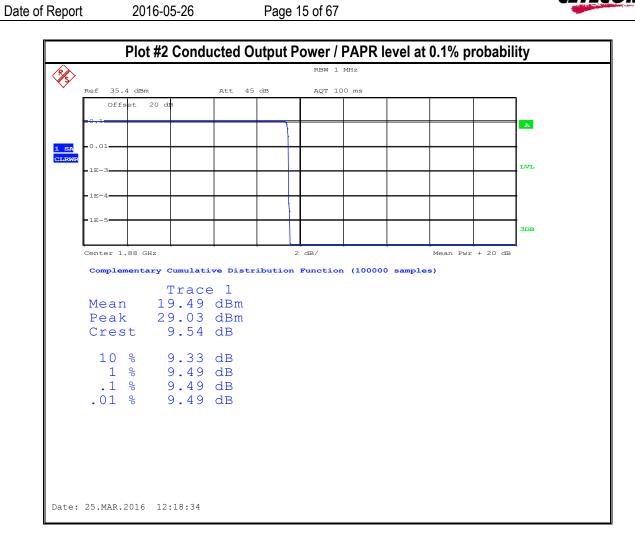
7.1.5 **Measurement Plots:**



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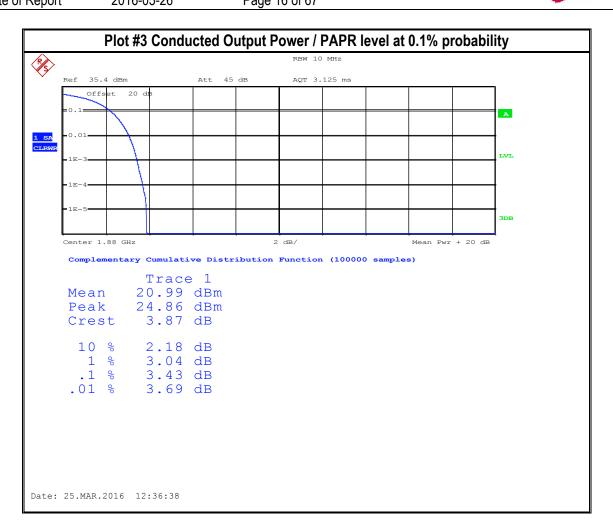
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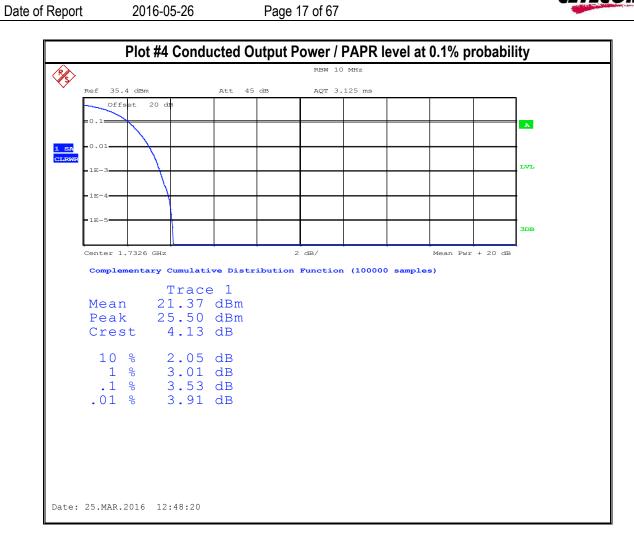




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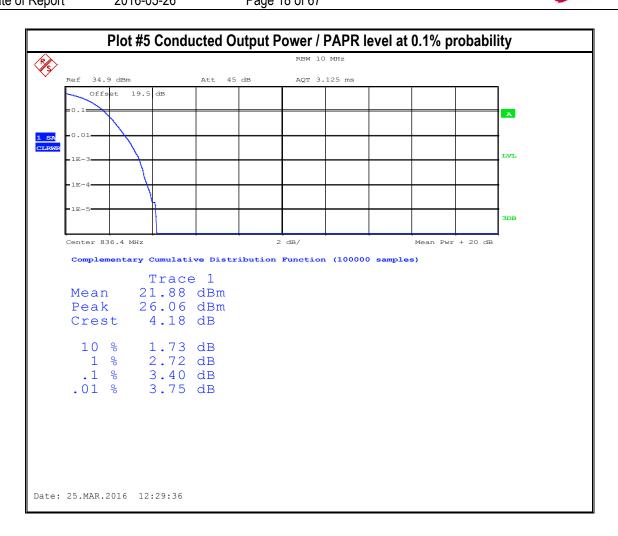
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Radiated Spurious Emissions 7.2

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7.2.1 Measurement according to FCC: CFR 47 Part 2.1053; CFR Part 22.917; Part 24.238; Part 27.53, utilizing KDB 971168 D01 Power Meas License Digital Systems v02r02, and according to TIA-603C 2004- 2.2.12

	Spectrum Analyzer Settings for FCC 22						
Frequency Range	30MHz – 1 GHz	1 – 1.58 GHz	1.58 – 9 GHz				
Resolution Bandwidth	100 kHz	1 MHz	1 MHz				
Video Bandwidth	100 kHz	1 MHz	1 MHz				
Detector	Peak	Peak	Peak				
Trace Mode	Max Hold	Max Hold	Max Hold				
Sweep Time	Auto	Auto	Auto				

Spectrum Analyzer Settings for FCC 24 and 27						
Frequency Range	30MHz – 1 GHz	1 – 2.7 GHz	2.7 – 18 GHz	18 – 19.1 GHz		
Resolution Bandwidth	100 kHz	1 MHz	1 MHz	1 MHz		
Video Bandwidth	100 kHz	1 MHz	1 MHz	1 MHz		
Detector	Peak	Peak	Peak	Peak		
Trace Mode	Max Hold	Max Hold	Max Hold	Max Hold		
Sweep Time	Auto	Auto	Auto	Auto		

7.2.2 Limits: FCC Part 22.917 (a), Part 24.238 (a), and Part 27.53 (h)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P) dB = (-13dBm)$

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7.2.3 Test conditions and setup:

Ambient Temperature (C)	EUT Set-Up#	EUT operating mode	Power Input
22	1	GSM 850 / 1900 FDD II / FDD IV / FDD V	Battery

7.2.4 Measurement result:

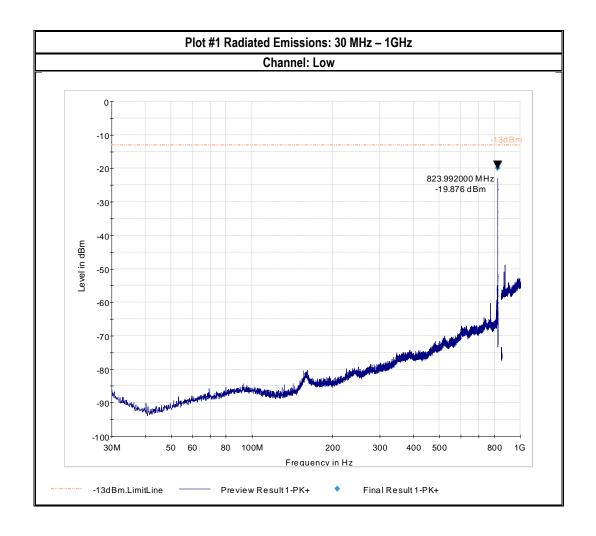
Plot #	Channel #	EUT operating mode	Scan Frequency	Limit (dBm)	Result
1-2	Low	GSM 850	30 MHz – 9 GHz	-13	Pass
3-5	Mid	GSM 850	9 kHz – 9 GHz	-13	Pass
6-7	High	GSM 850	30 MHz – 9 GHz	-13	Pass
8-10	Low	GSM 1900	30 MHz – 18 GHz	-13	Pass
11-15	Mid	GSM 1900	9 kHz – 22 GHz	-13	Pass
16-18	High	GSM 1900	30 MHz – 18 GHz	-13	Pass
19-21	Low	FDD II	30 MHz – 18 GHz	-13	Pass
22-26	Mid	FDD II	9 kHz – 22 GHz	-13	Pass
27-29	High	FDD II	30 MHz – 18 GHz	-13	Pass
30-32	Low	FDD IV	30 MHz – 18 GHz	-13	Pass
33-36	Mid	FDD IV	9 kHz – 18 GHz	-13	Pass
37-39	High	FDD IV	30 MHz – 18 GHz	-13	Pass
40-41	Low	FDD V	30 MHz – 9 GHz	-13	Pass
42-44	Mid	FDD V	9 kHz – 9 GHz	-13	Pass
45-46	High	FDD V	30 MHz – 9 GHz	-13	Pass

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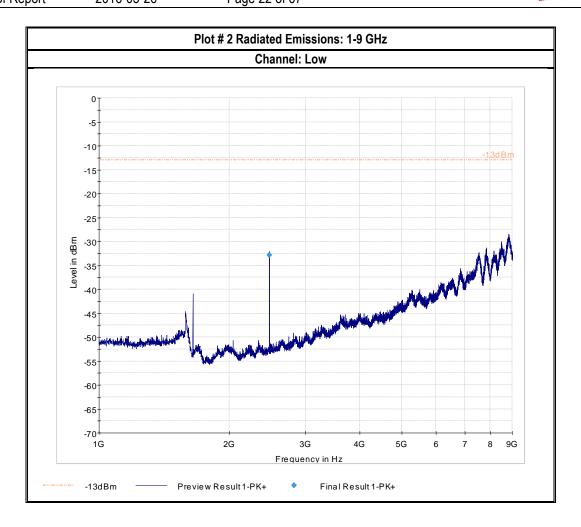
7.2.5 Measurement Plots:

GSM 850

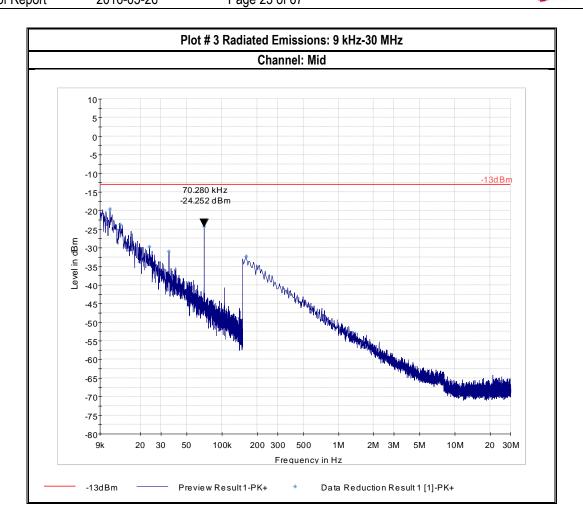


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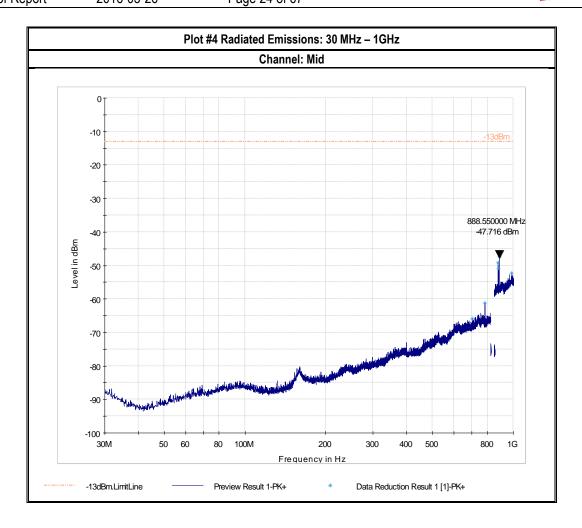






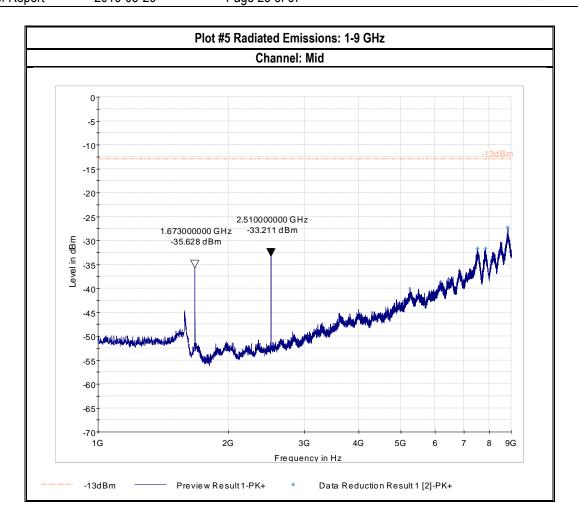
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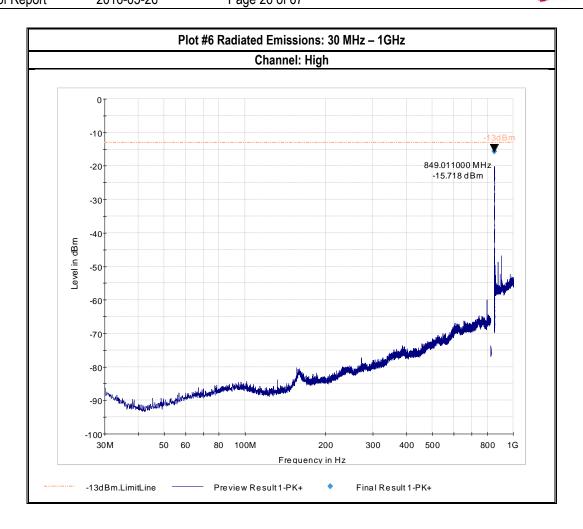


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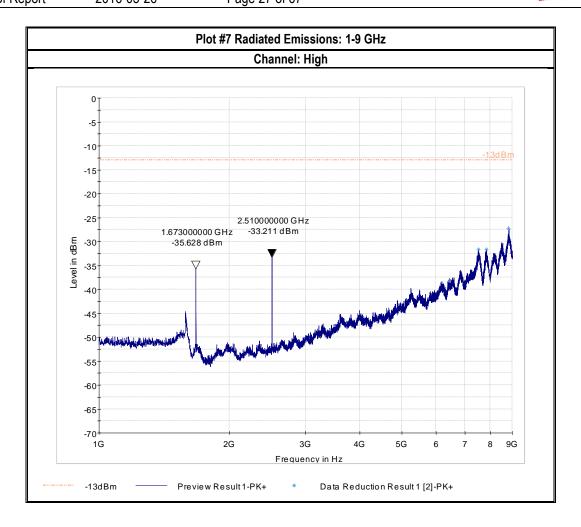








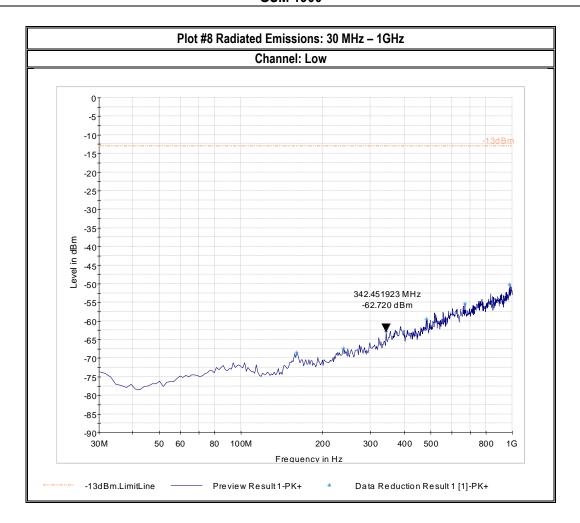




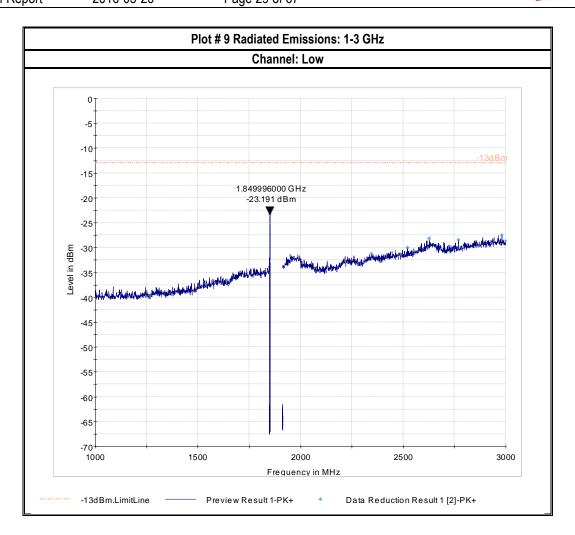
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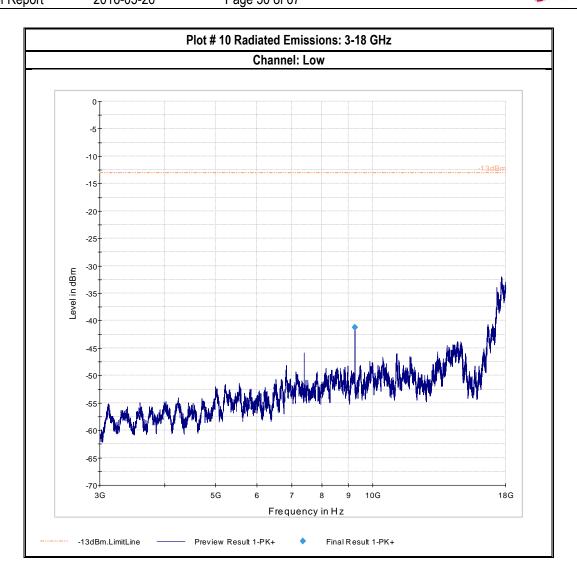
GSM 1900



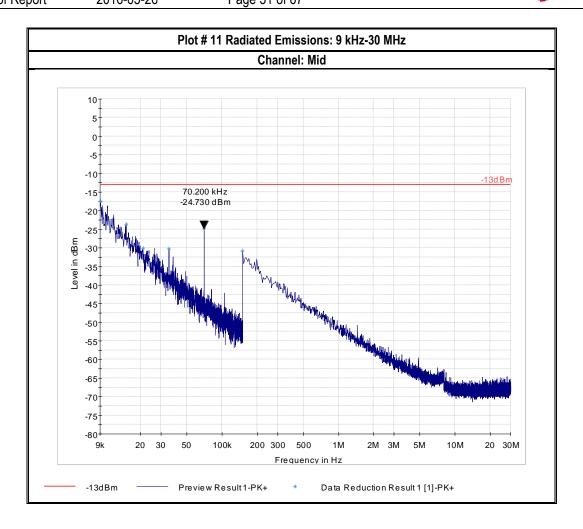






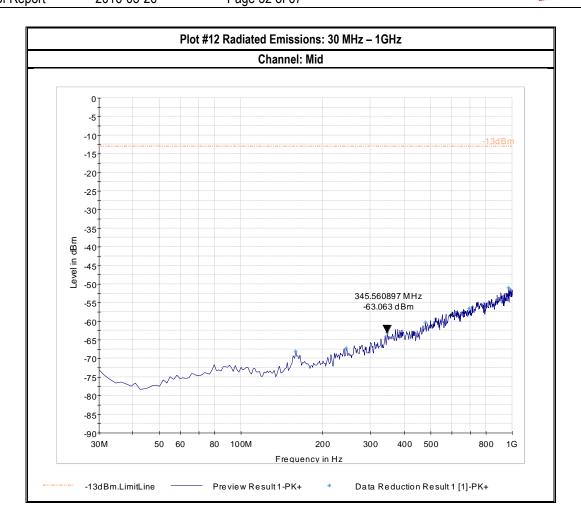






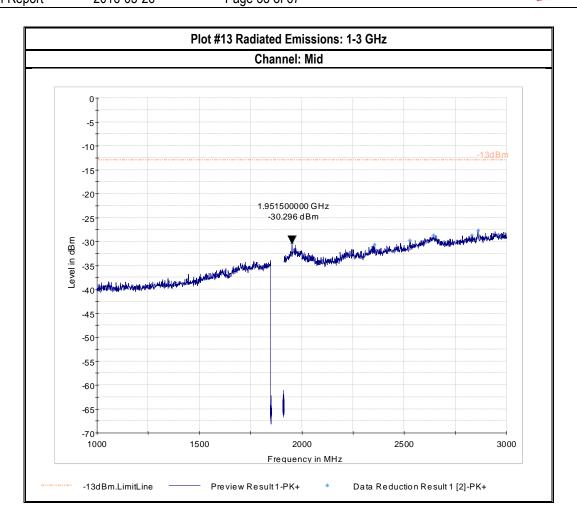
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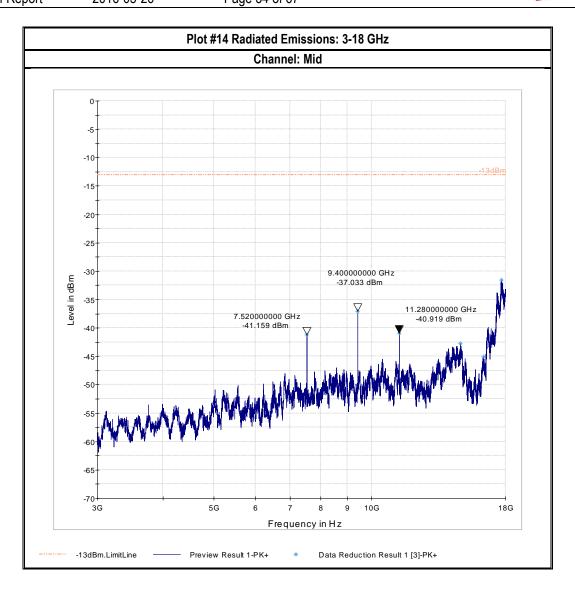


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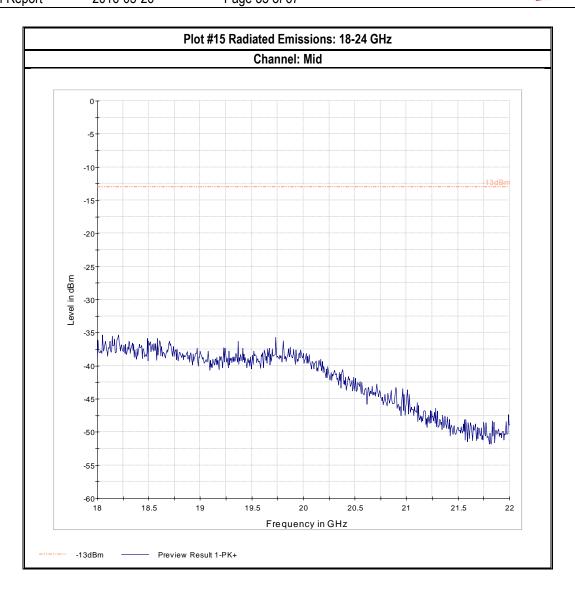




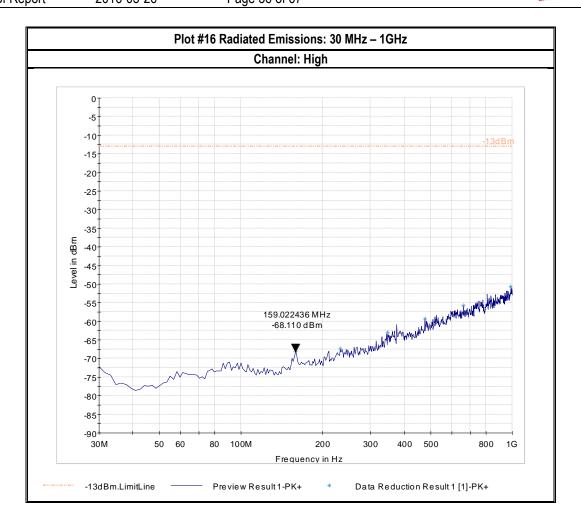




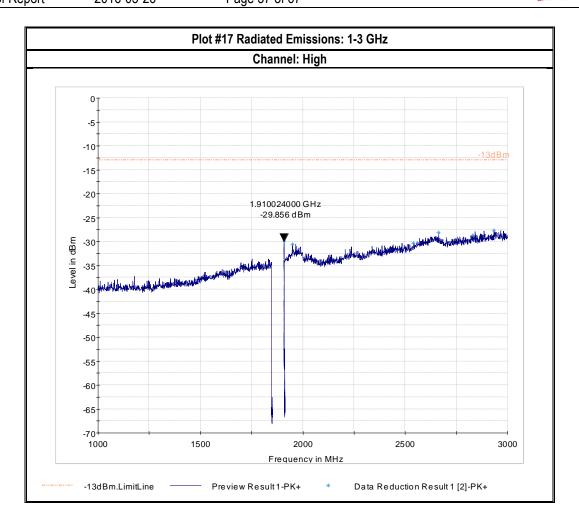






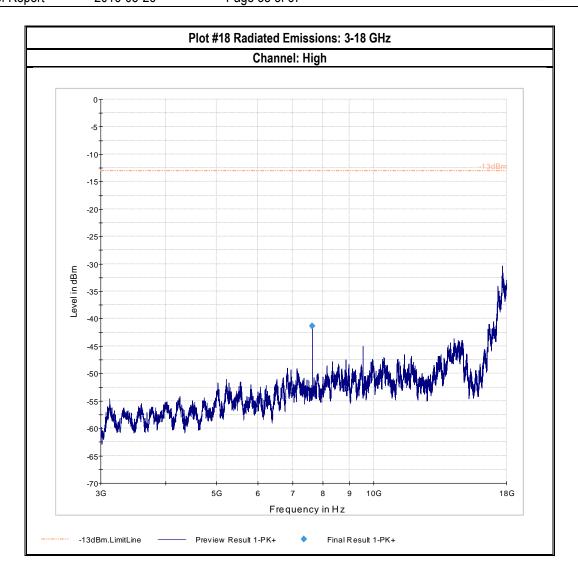






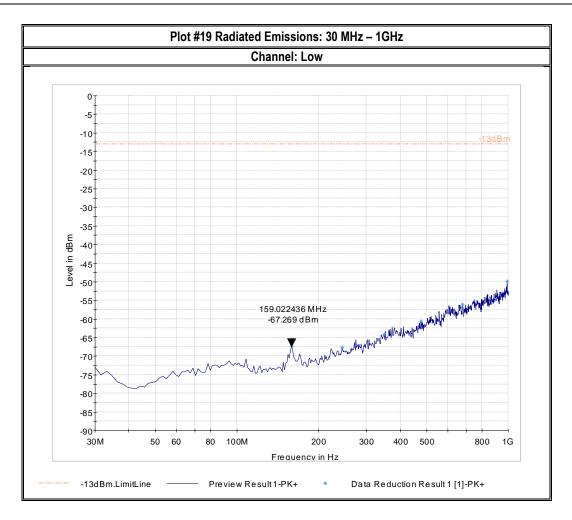
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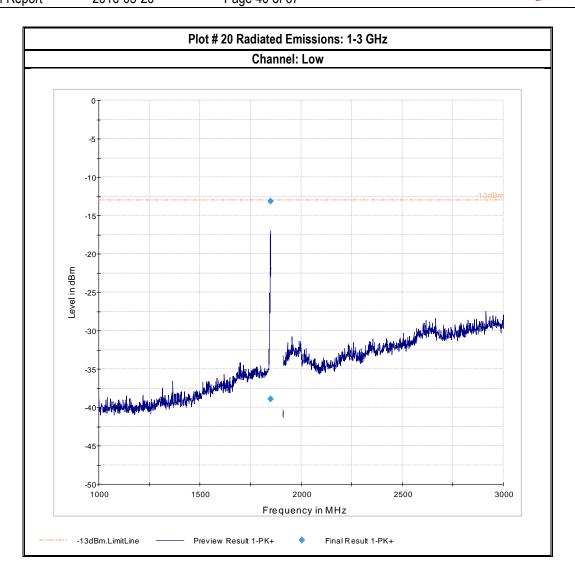




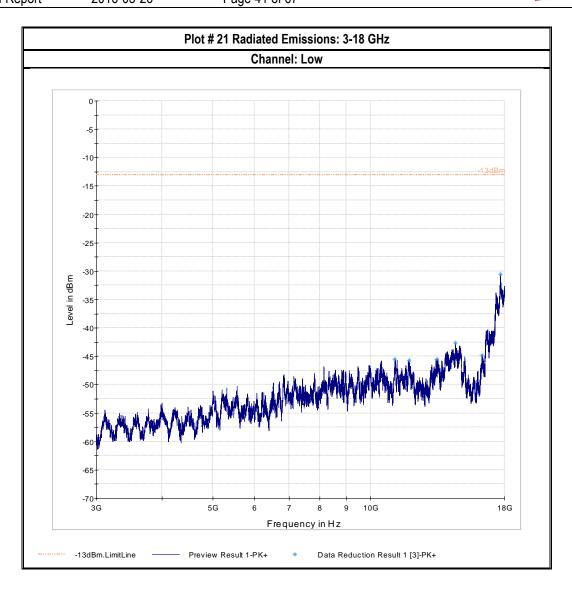
FDD II



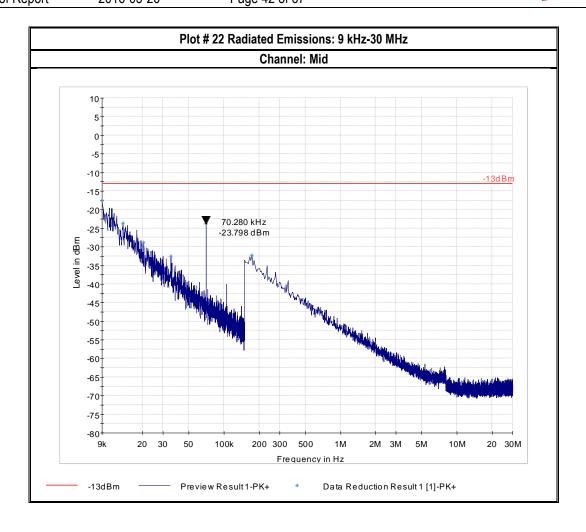




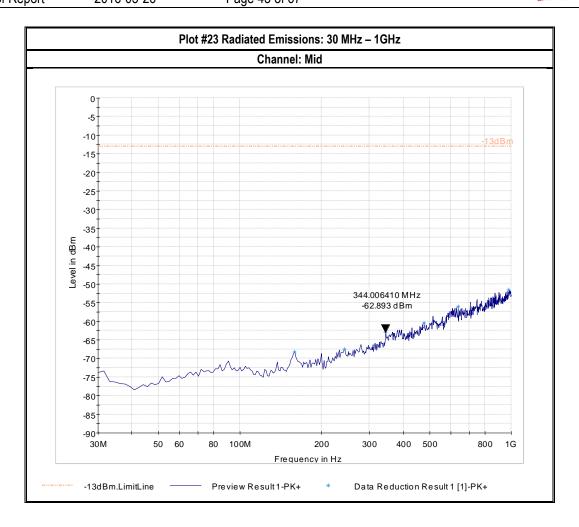




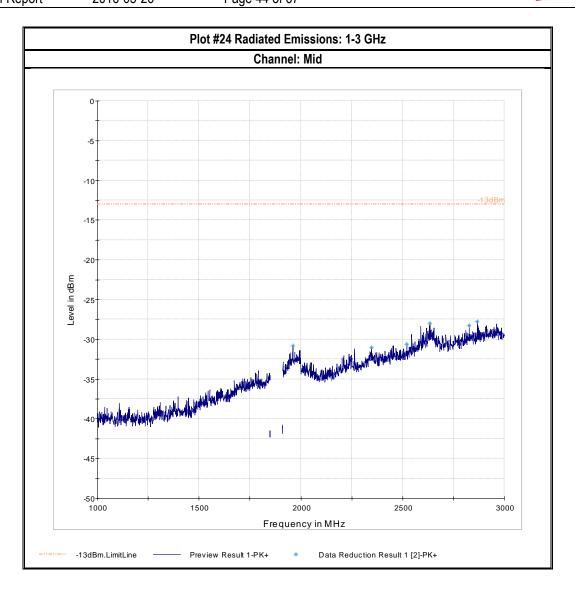




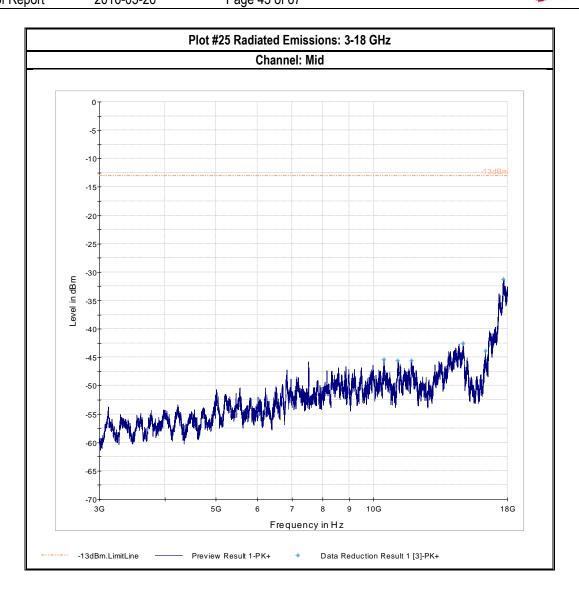




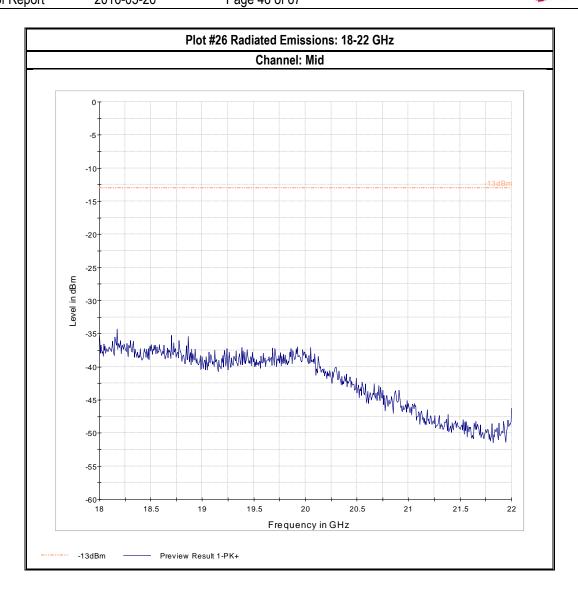




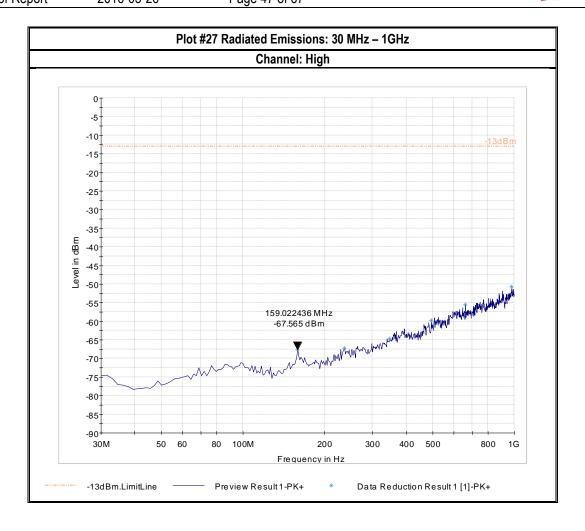






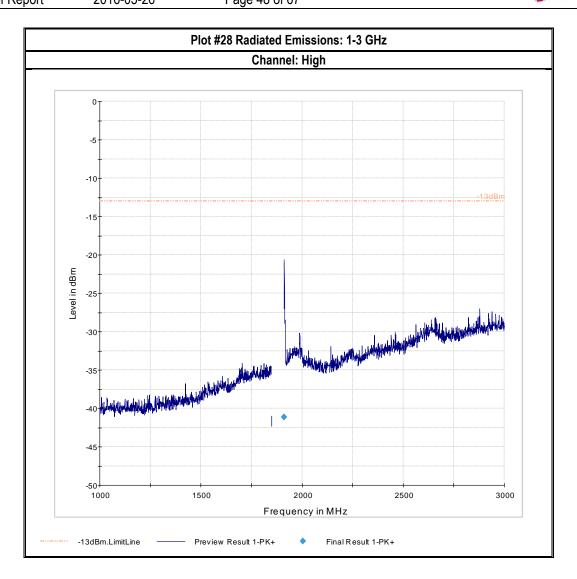




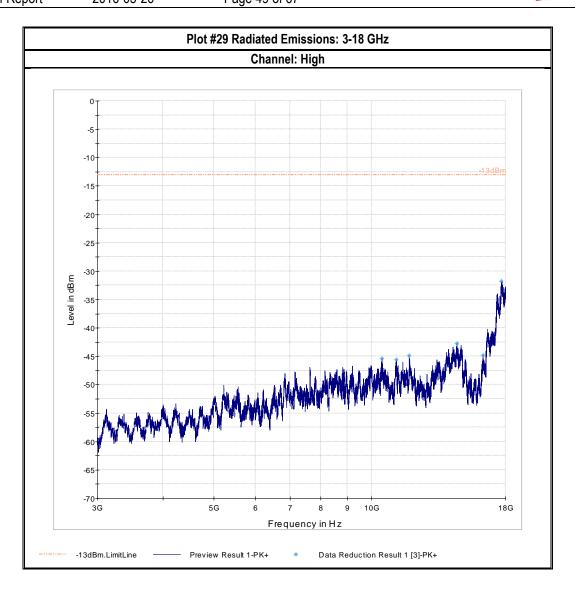


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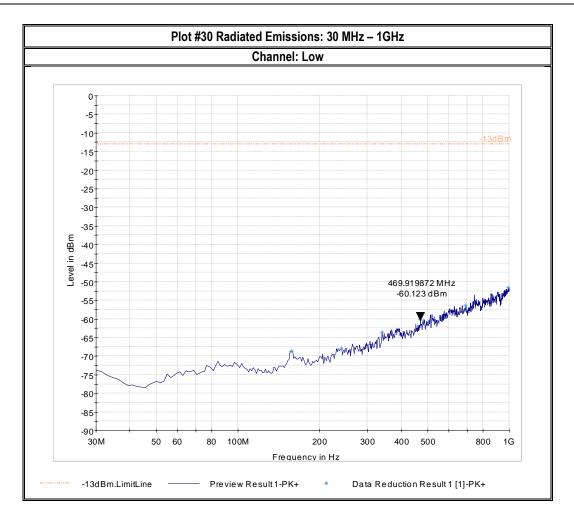




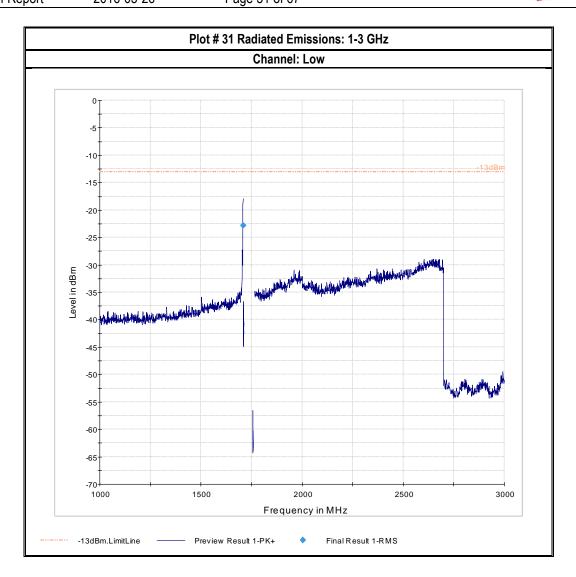




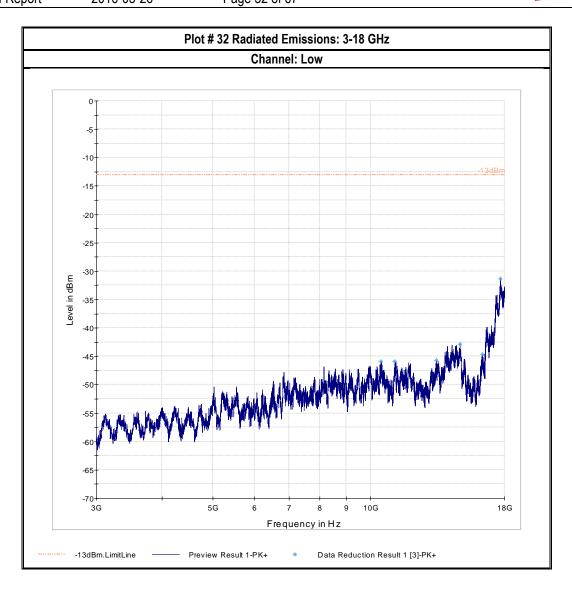
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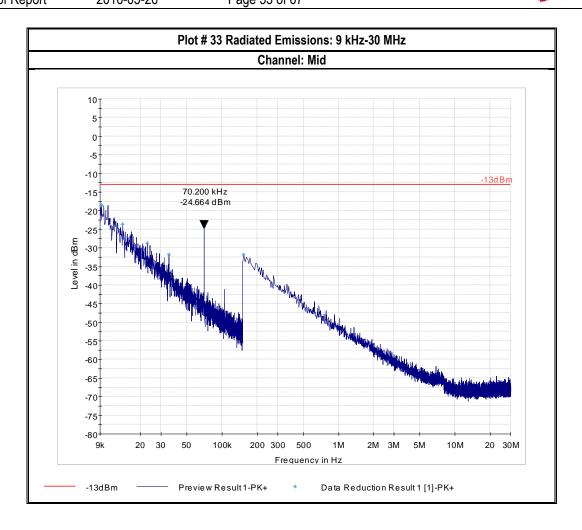






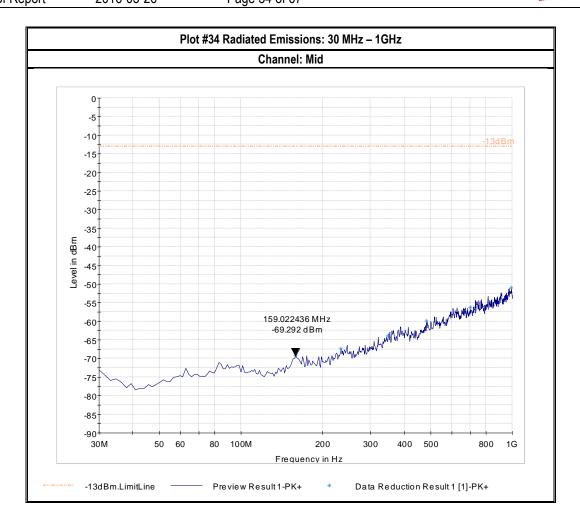




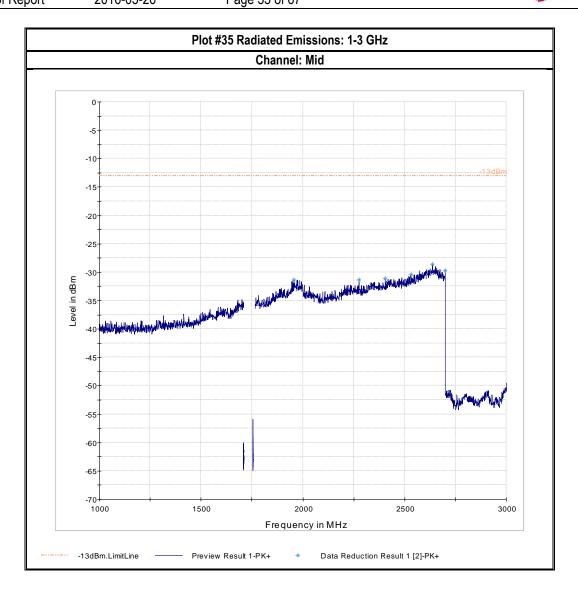


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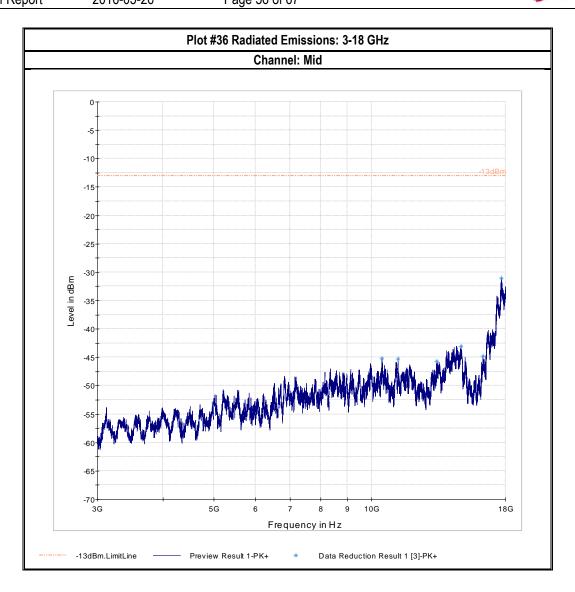






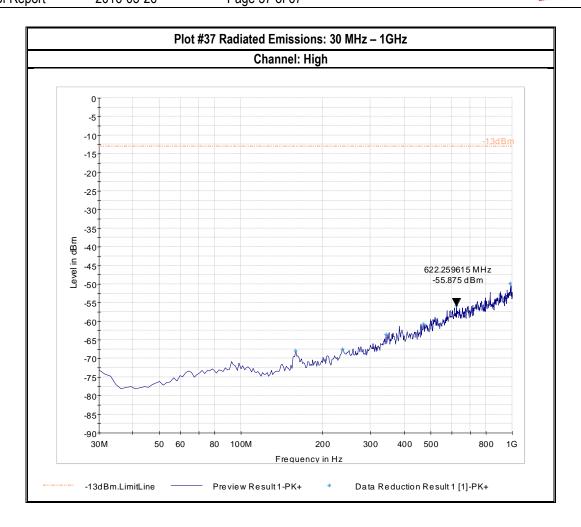




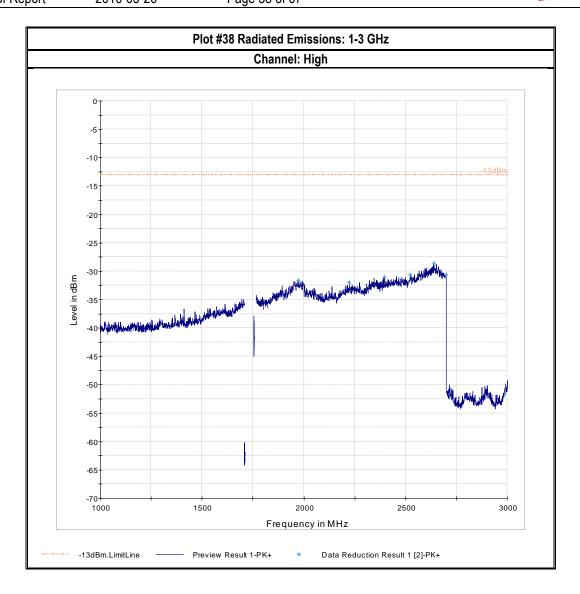


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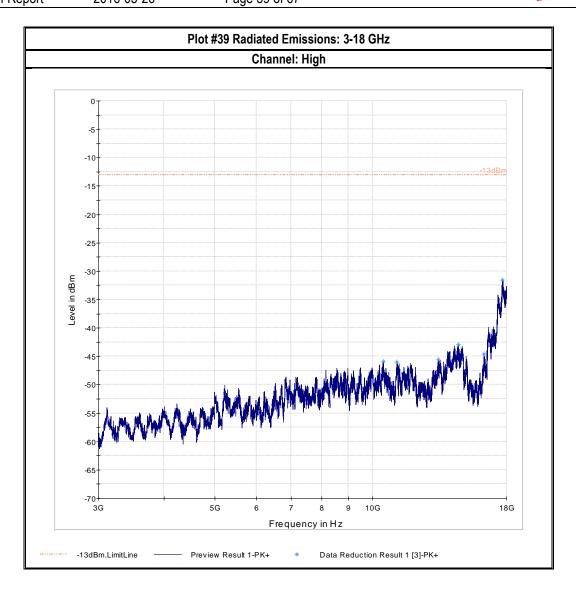








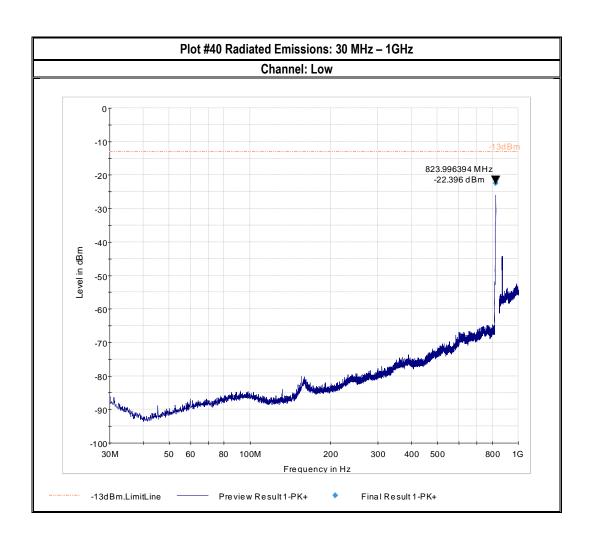




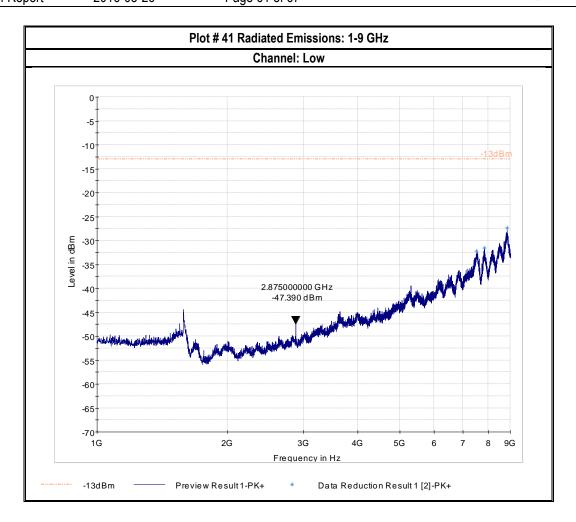
FCC ID: 2AHLC01854



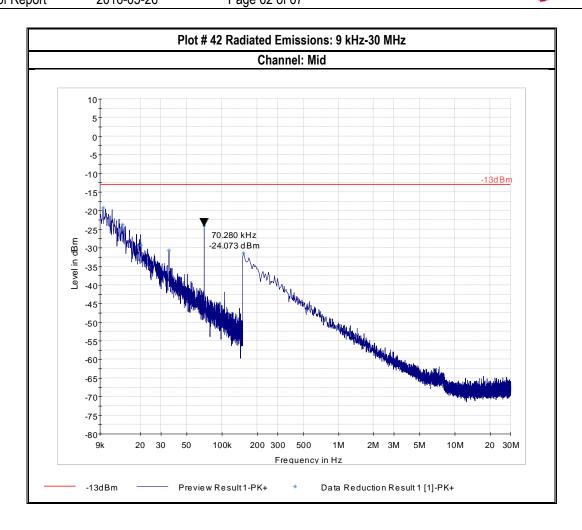
FDD V





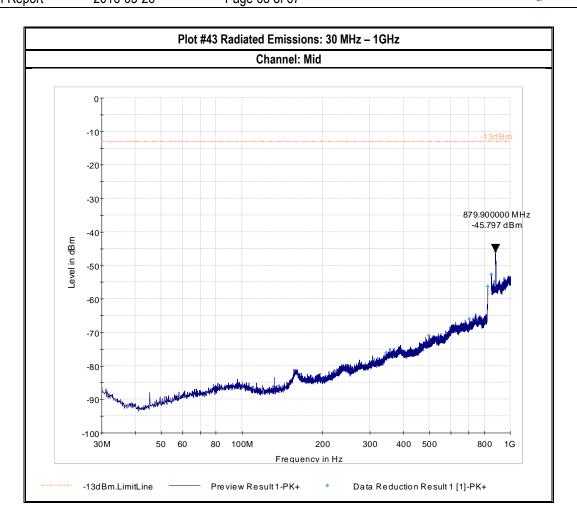




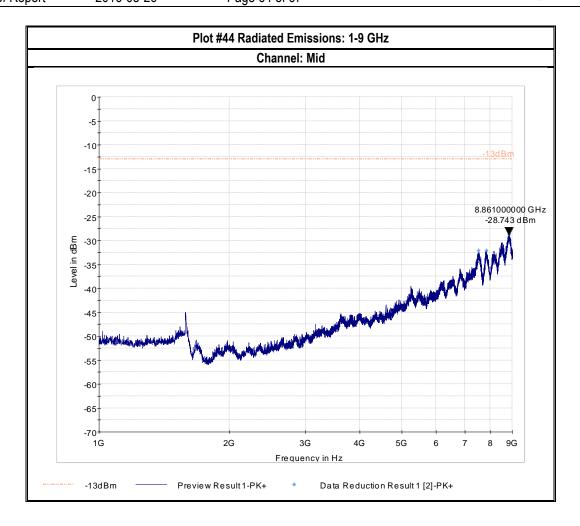


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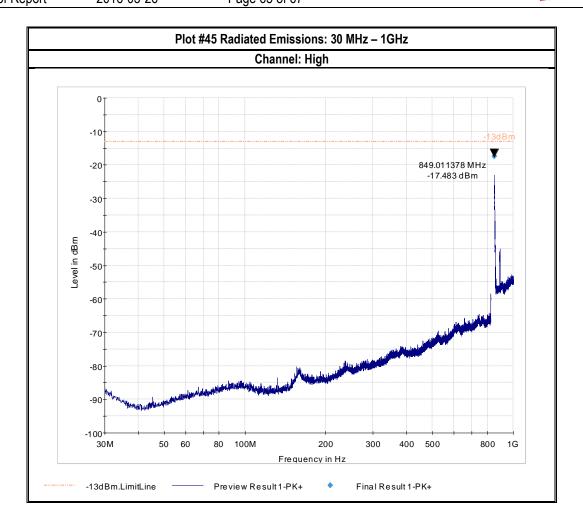






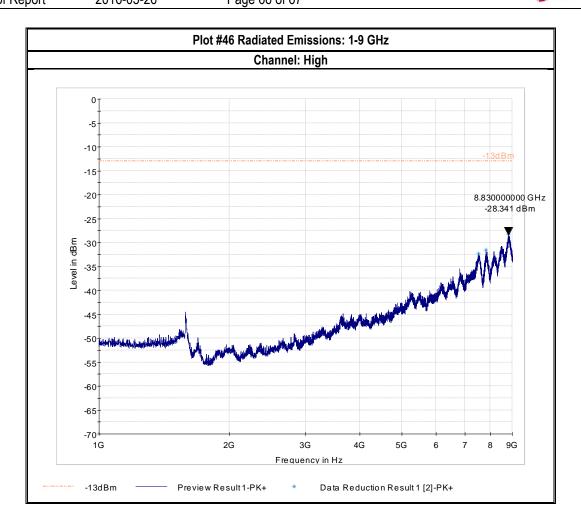
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8 Test setup photos

Setup photos are included in supporting file name: "EMC_INFOB-001-16001_FCC_22_24_27_Setup_Photos.pdf"

FCC ID: 2AHLC01854

9 Test Equipment And Ancillaries Used For Testing

Item Name	Equipment Type	Manufacturer	Model	Serial #	Calibration Cycle	Last Calibration Date
Antenna Biconilog 3142E	Biconlog Antenna	EMCO	3142E	166067	3 years	6/14/2014
Antenna Loop 6512	Loop Antenna	ETS Lindgren	6512	49838	3 years	3/13/2014
Antenna Horn 3115 SN 35111	Horn Antenna	EMCO	3115	35111	3 years	7/24/2015
Antenna Horn 3116	Horn Antenna	ETS Lindgren	3116	70497	3 years	7/22/2015
LISN FCC-LISN-50-25-2-08	LISN	FCC	FCC-LISN-50-25-2-08	8014	2 Years	3/26/2015
Digital Barometer	Compact Digital Barometer	Control Company	35519-055	91119547	2 Years	4/7/2015
Digital Radio Comm. Tester CMU 200 #1	Digital Radio Comm. Tester	R&S	CMU 200 #1	101821	2 Years	7/4/2015
Spectrum Analyzer FSU26 #2	Spectrum Analyzer	R&S	FSU26	200065	3 years	7/4/2015
Thermometer Humidity TM320	Thermometer Humidity	Dickson	TM320	5280063	1 Year	7/29/2015

Equipment used meets the measurement uncertainty requirements as required per applicable standards for 95% confidence levels.

Calibration due dates, unless defined specifically, falls on the last day of the month. Items indicated "N/A" for cal status either do not specifically require calibration or is internally characterized before use.

10 Revision History

Date	Report Name	Changes to report	Report prepared by	
2016-02-24	EMC_INFOB-001-16001_FCC_22_24_27	Initial Version	Kris Lazarov	