

Cellphone-Mate, Inc.

ADDENDUM TO TEST REPORT 95252-12

**Mobile Wideband Consumer Signal Booster
Model: TriFlex-2Go-A**

Tested To The Following Standards:

FCC Part 20.21

Report No.: 95252-12A

Date of issue: April 4, 2014



This test report bears the accreditation symbol indicating that the testing performed herein meets the test and reporting requirements of ISO/IEC 17025 under the applicable scope of EMC testing for CKC Laboratories, Inc.

We strive to create long-term, trust based relationships by providing sound, adaptive, customer first testing services. We embrace each of our customers' unique EMC challenges, not as an interruption to set processes, but rather as the reason we are in business.

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ADMINISTRATIVE INFORMATION

Test Report Information

REPORT PREPARED FOR:

Cellphone-Mate, Inc.
48346 Milmont Drive
Fremont, CA 94538

Representative: Hongtao Zhan
Customer Reference Number: CKC20140123

DATE OF EQUIPMENT RECEIPT:

DATE(S) OF TESTING:

REPORT PREPARED BY:

Dianne Dudley
CKC Laboratories, Inc.
5046 Sierra Pines Drive
Mariposa, CA 95338

Project Number: 95252

January 22, 2014

January 22-February 10, 2014

Revision History

Original: Testing of Mobile Wideband Consumer Signal Booster, TriFlex-2Go-A to FCC Part 20, Section 20.21.

Addendum A: Test summary table added to sections 7.7 Noise Limits and 7.9, Booster Gain. Replace EIRP calculation table for Desktop/RV kit in section 7.2 with new data. Removed duplicate data for the Vehicle, Marin and Desktop/RV Kits in section 7.3, Maximum Gain.

Report Authorization

The test data contained in this report documents the observed testing parameters pertaining to and are relevant for only the sample equipment tested in the agreed upon operational mode(s) and configuration(s) as identified herein. Compliance assessment remains the client's responsibility. This report may not be used to claim product endorsement by A2LA or any government agencies. This test report has been authorized for release under quality control from CKC Laboratories, Inc.



Steve Behm
Director of Quality Assurance & Engineering Services
CKC Laboratories, Inc.

Test Facility Information



Our laboratories are configured to effectively test a wide variety of product types. CKC utilizes first class test equipment, anechoic chambers, data acquisition and information services to create accurate, repeatable and affordable test results.

TEST LOCATION(S):
CKC Laboratories, Inc.
110 Olinda Place
Brea, CA 92823

Software Versions

CKC Laboratories Proprietary Software	Version
EMITest Emissions	5.00.14

Site Registration & Accreditation Information

Location	CB #	TAIWAN	CANADA	FCC	JAPAN
Brea D	US0060	SL2-IN-E-1146R	3082D-2	100638	A-0147

SUMMARY OF RESULTS

Standard / Specification: FCC Part 20.21

Draft KDB 935210 D03 Wideband Consumer Signal Booster Measurement Guidance DR04 41516 (August 7 th , 2013)		FCC Part 20.21 Section Correlation		Results
Guidance Sec #	Guidance Description	FCC Sec #	FCC Rule Description	
7.1	Authorized Frequency Band Verification	20.21(e)(3)	Frequency Bands	Pass
7.2	Maximum Power Measurement Procedure	20.21(e)(8)(i)(D)	Power Limit	Pass
7.3	Maximum Booster Gain Computation	20.21(e)(8)(i)(B)	Bidirectional Capabilities	Pass
7.4	Intermodulation Product	20.21(e)(8)(i)(F)	Intermodulation Limit	Pass
7.5	Out of Band Emissions	20.21(e)(8)(i)(E)	Out of Band Emission	Pass
7.6 ¹	Conducted Spurious Emission ¹	Part 22/24/27 ¹	Conducted Spurious Emission ¹	NA ¹
7.7a) to g) 7.7h) to m) 7.7n) to t)	Noise Limit procedure Variable Noise Variable Noise Timing	20.21(e)(8)(i)(A)(2) 20.21(e)(8)(i)(A)(1) 20.21(e)(8)(i)(H)	Noise Limits Transmit power off Mode	Pass
7.8.	Uplink inactivity	20.21(e)(8)(i)(I)	Uplink inactivity	Pass
7.9a) to l) 7.9m) to s)	Variable Booster gain Variable Uplink Gain Timing	20.21(e)(8)(i)(C) (1),(2) 20.21(e)(8)(i)(H)	Booster Gain Transmit Power Off Mode	Pass
7.10 ¹	Occupied Band Width ¹	2.1049 Part 22/24/27 ¹	Occupied Bandwidth ¹	NA ¹
7.11	Oscillation Detection	20.21(e)(8)(ii)(A)	Anti-oscillation	Pass
7.12 ¹	Radiated Spurious Emission ¹	Part 22/24/27 ¹	Radiated Spurious Emission ¹	NA ¹
7.13	Spectrum Block Filter	NA	NA	NA ²

NA¹ = A different standard applies; see applicable test report.

NA² = Not applicable. See the section in the report for the reason.

Conditions During Testing

This list is a summary of the conditions noted for or modifications made to the equipment during testing.

Summary of Conditions
None

EQUIPMENT UNDER TEST (EUT)

EQUIPMENT UNDER TEST

Mobile Wideband Consumer Signal Booster

Manuf: Cellphone-Mate, Inc.

Model: TriFlex-2Go-A

Serial: None

PERIPHERAL DEVICES

The EUT was tested with the following peripheral device(s):

Signal Generator

Manuf: Agilent

Model: E4438C

Serial: MY42081492

AC to 9VDC Power Adapter

Manuf: SureCall

Model: GFP451DA-0945-1

Serial: None

Signal Generator

Manuf: Agilent

Model: E4433B

Serial: US40052164

Combiner

Manuf: Anaren

Model: 44000

Serial: 0583

Signal Generator

Manuf: Agilent

Model: E4433B

Serial: US40053279

FCC PART 20.21

This report contains EMC emissions test results under United States Federal Communications Commission (FCC) CFR 47 Clause 20.21.(e)(8) requirements for Wideband Consumer Signal Boosters.

Clause 7.1 Authorized Frequency Band Verification

Test Conditions / Setup

Test Location: CKC Laboratories • 110 Olinda Place • Brea, CA 92823 • 714-993-6112
 Customer: **Cellphone-Mate, Inc.**
 Specification: **7.1 Authorized Frequency Band Verification**
 Work Order #: **95252** Date: 01/23/2014
 Test Type: **Conducted Emissions**
 Equipment: Mobile Wideband Consumer Signal Booster
 Manufacturer: Cellphone-Mate, Inc. Tested By: S. Yamamoto
 Model: TriFlex-2Go-A 110V 60Hz
 S/N: (none)

Test Equipment:

Asset #	Description	Model	Calibration Date	Cal Due Date
02672	Spectrum Analyzer	E4446A	8/14/2013	8/14/2015
03431	Attenuator	89-20-21	9/5/2013	9/5/2015
02945	Cable	32022-2-2909K-36TC	10/30/2013	10/30/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Mobile Wideband Consumer Signal Booster *	Cellphone-Mate, Inc.	TriFlex-2Go-A	(none)

Support Devices:

Function	Manufacturer	Model #	S/N
Signal Generator	Agilent	E4438C	MY42081492
AC to 9Vdc Power Adapter	SureCall	GFP451DA-0945-1	(none)

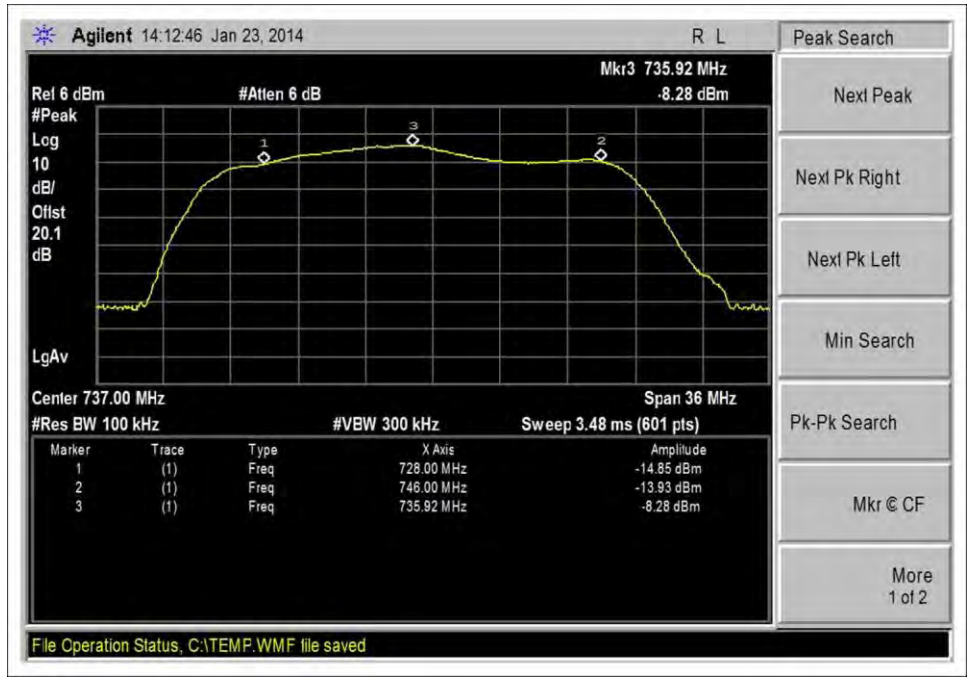
Test Conditions / Notes:

The EUT is placed on the test bench. Gain is set to the maximum gain for all bands. Evaluation performed at the Outside (Donor) and Inside (Server) antenna port. Test performed at for each of the following bands: UL 698-716MHz, UL 824-849MHz, UL 1850-1910MHz, DL 728-746MHz, DL 869-894MHz, DL 1930-1990MHz
 Authorized Frequency Band Verification Test procedure: The test was performed IAW section 7.1 of the FCC Publication: 935210 D03 Signal Booster Measurements v01r01: January 21, 2014. Site D. Test environment conditions: 21°C, 35%, 100kPa

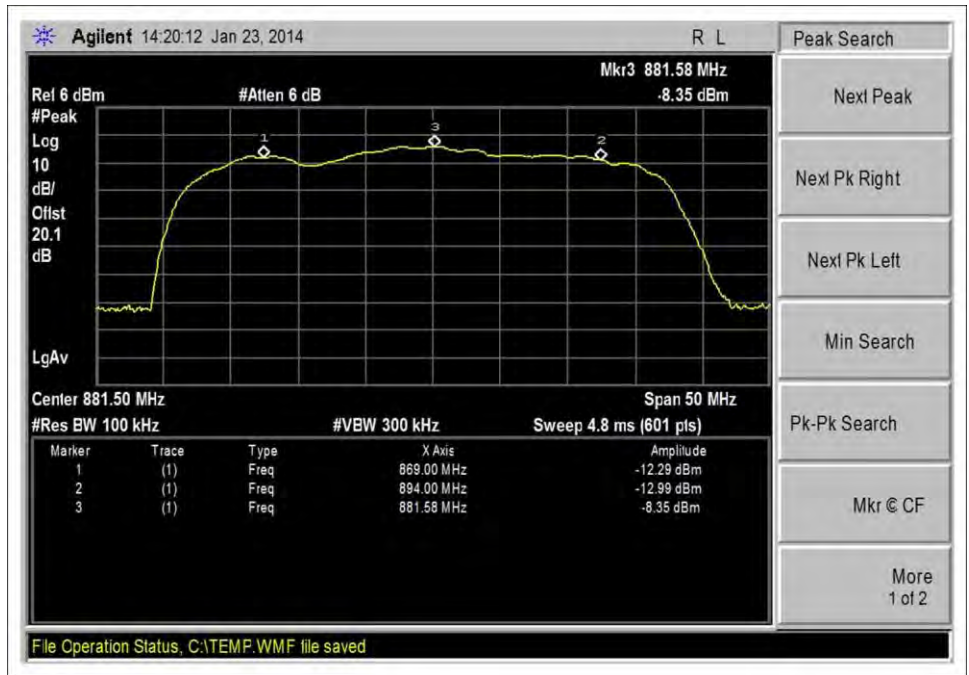
Summary of Results

Pass: The plots that follow show the device only operates on the CMRS frequency bands authorized for use by the NPS.

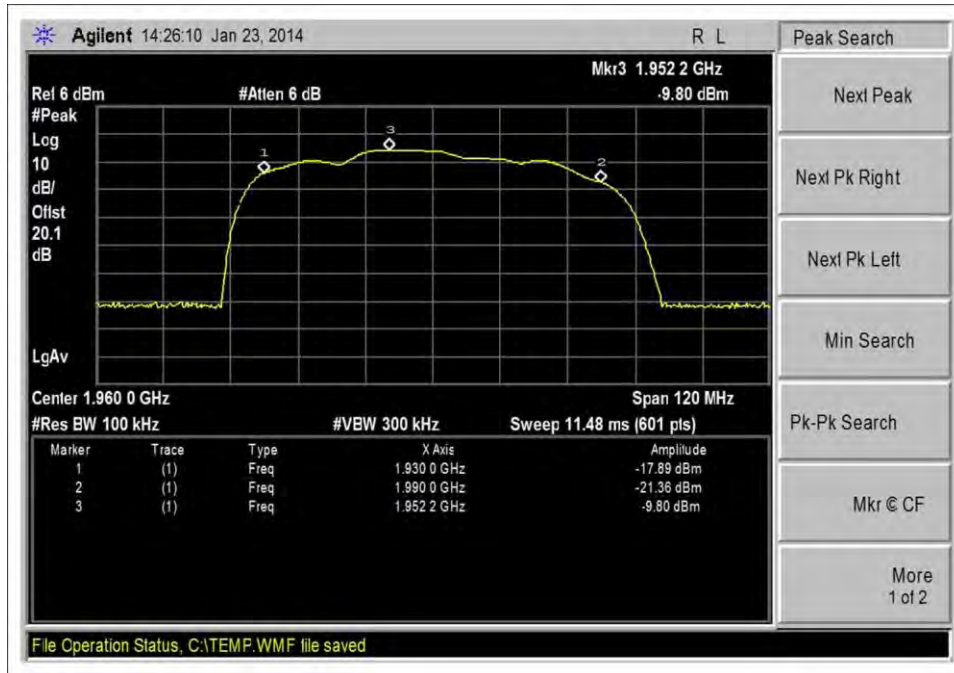
Test Data



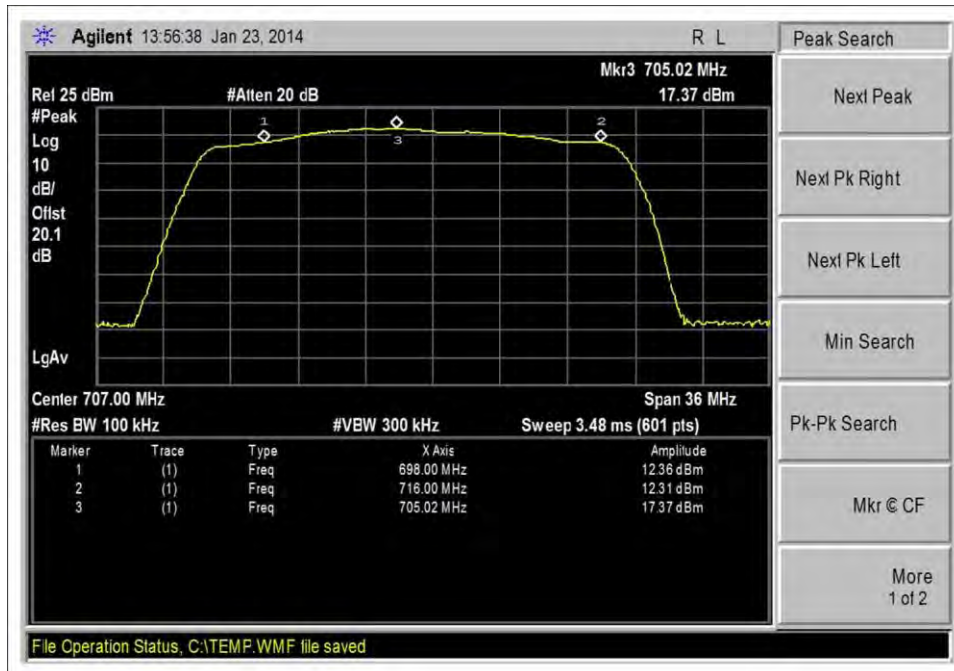
DL_728-746MHz



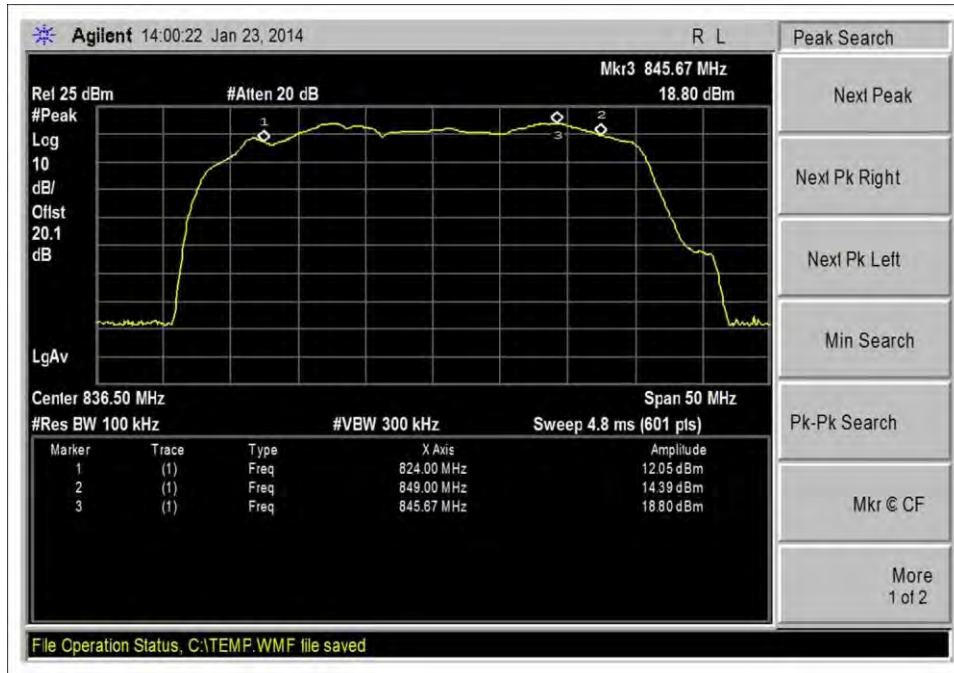
DL_869-894MHz



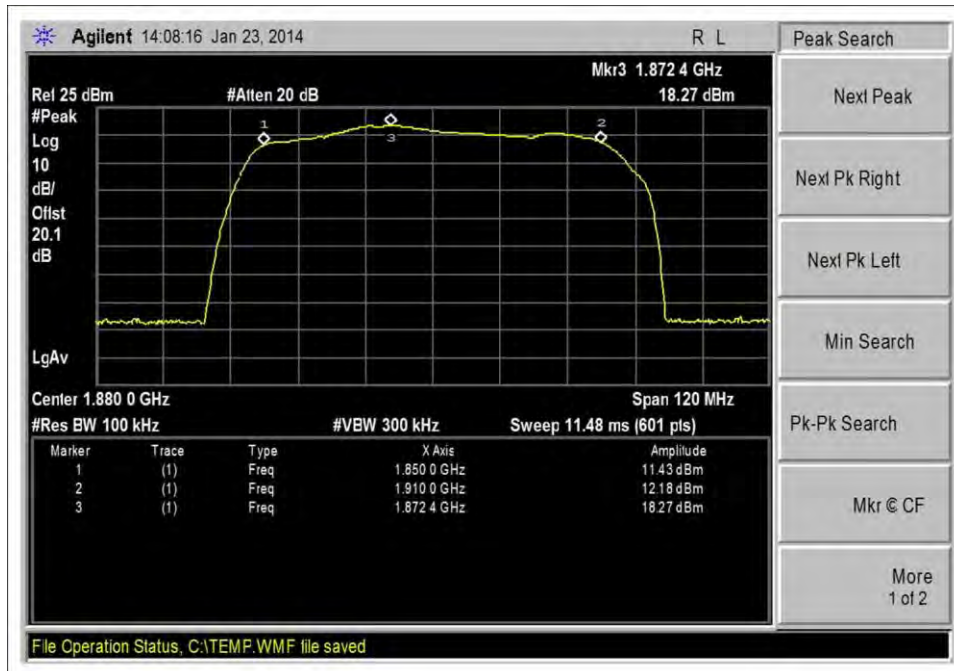
DL_1930-1990MHz



UL_698-716MHz



UL_824-849MHz



UL_1850-1910MHz

Test Setup Photo(s)



Clause 7.2 Maximum Power

Test Conditions / Setup

Test Location: CKC Laboratories • 110 Olinda Place • Brea, CA 92823 • 714-993-6112

Customer: **Cellphone-Mate, Inc.**
 Specification: **7.2 Maximum Power**
 Work Order #: **95252** Date: 01/23/2014
 Test Type: **Conducted Emissions**
 Equipment: Mobile Wideband Consumer Signal
 Booster
 Manufacturer: Cellphone-Mate, Inc. Tested By: S. Yamamoto/ Don Nguyen
 Model: TriFlex-2Go-A 110V 60Hz
 S/N: (none)

Test Equipment:

Asset #	Description	Model	Calibration Date	Cal Due Date
02672	Spectrum Analyzer	E4446A	8/14/2013	8/14/2015
03431	Attenuator	89-20-21	9/5/2013	9/5/2015
02945	Cable	32022-2-2909K-36TC	10/30/2013	10/30/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Mobile Wideband Consumer Signal Booster *	Cellphone-Mate, Inc.	TriFlex-2Go-A	(none)

Support Devices:

Function	Manufacturer	Model #	S/N
Signal Generator	Agilent	E4438C	MY42081492
AC to 9Vdc Power Adapter	SureCall	GFP451DA-0945-1	(none)

Test Conditions / Notes:

The EUT is placed on the test bench. Gain is set to the maximum gain for all bands.
 Evaluation performed at the Outside (Donor) and Inside (Server) antenna port.
 Test performed at for each of the following bands: UL 698-716MHz, UL 824-849MHz, UL 1850-1910MHz, DL 728-746MHz, DL 869-894MHz, DL 1930-1990MHz
 Pulsed GSM and AWGN 4.1MHz.
 Maximum Power Test procedure: The test was performed in accordance with section 7.2 of the FCC Publication: 935210 D03 Signal Booster Measurements v01r01: January 21, 2014. Site D. Test environment conditions: 21°C, 35%, 100kPa

Summary of Results

Pass: Data has been summarized in tables below.

Vehicle Kit

Pulse GSM					
Frequency	Output Power	Ant Gain	Cable Loss	EIRP(dBm)	Limit(dBm)
DL 728-746	-5.6	1.1	3.8	-8.3	17
DL 869-894	-5.5	1.1	4.3	-8.7	17
DL 1930-1990	-8.0	3	8.8	-13.8	17
UL 698-716	19.3	3	3.8	18.5	30
UL 824-849	20.9	3	4.3	19.6	30
UL 1850-1910	19.4	5	8.8	15.6	30
4.1MHz AWGN					
Frequency	Output Power	Ant Gain	Cable Loss	EIRP(dBm)	Limit(dBm)
DL 728-746	-7.63	1.1	3.8	-10.3	17
DL 869-894	-7.39	1.1	4.3	-10.6	17
DL 1930-1990	-8.5	3	8.8	-14.3	17
UL 698-716	17.8	3	3.8	17.0	30
UL 824-849	19.0	3	4.3	17.7	30
UL 1850-1910	18.3	5	8.8	14.5	30

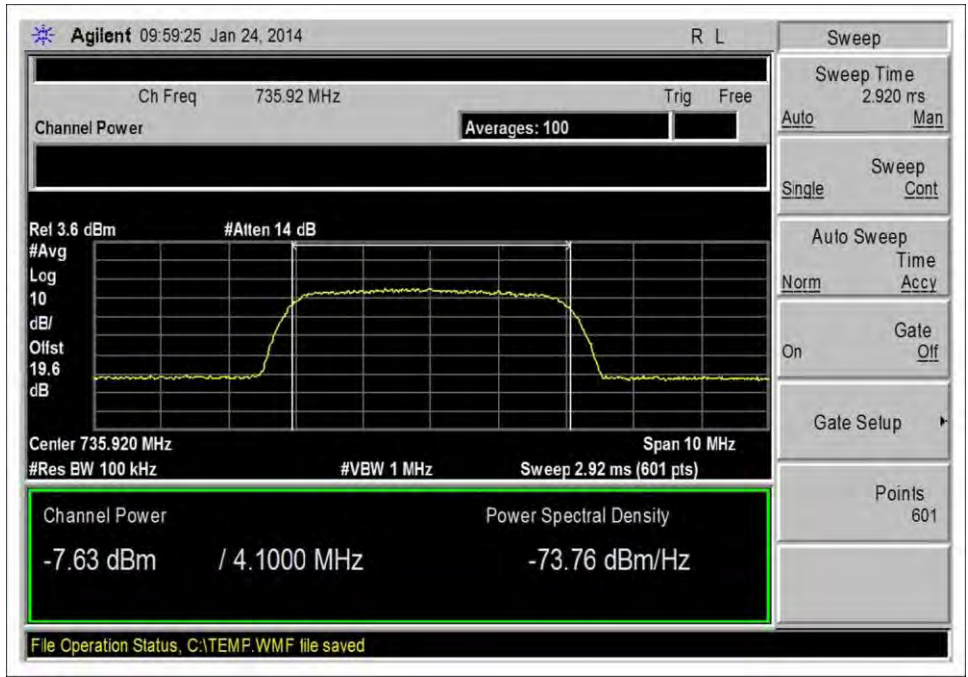
Marine Kit

Pulse GSM					
Frequency	Output Power	Ant Gain	Cable Loss	EIRP(dBm)	Limit(dBm)
DL 728-746	-5.6	7	2.06	-0.7	17
DL 869-894	-5.5	7	2.29	-0.8	17
DL 1930-1990	-8.0	10	3.56	-1.6	17
UL 698-716	19.3	3	3.52	18.8	30
UL 824-849	20.9	3	3.98	19.9	30
UL 1850-1910	19.4	4	6.52	16.9	30
4.1MHz AWGN					
Frequency	Output Power	Ant Gain	Cable Loss	EIRP(dBm)	Limit(dBm)
DL 728-746	-7.63	7	2.06	-2.7	17
DL 869-894	-7.39	7	2.29	-2.7	17
DL 1930-1990	-8.5	10	3.56	-2.0	17
UL 698-716	17.8	3	3.52	17.3	30
UL 824-849	19.0	3	3.98	18.0	30
UL 1850-1910	18.3	4	6.52	15.8	30

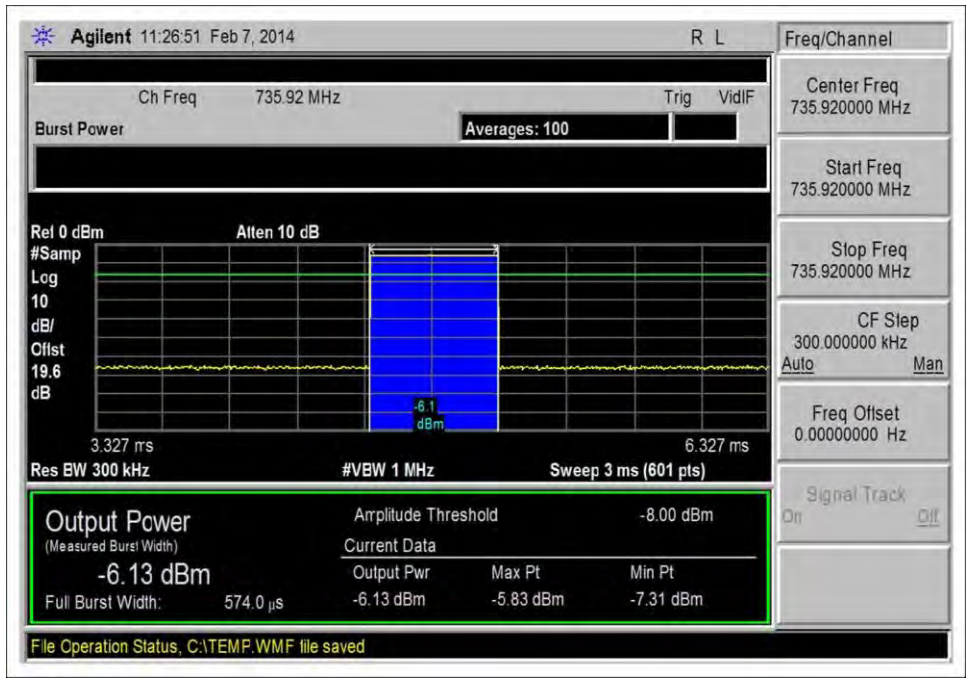
Desktop/RV Kit

Pulse GSM					
Frequency	Output Power	Ant Gain	Cable Loss	EIRP(dBm)	Limit(dBm)
DL 728-746	-5.6	1.2	0.3	-4.7	17
DL 869-894	-5.5	1.2	0.3	-4.6	17
DL 1930-1990	-8.0	3	0.3	-5.3	17
UL 698-716	19.3	3	3.52	18.8	30
UL 824-849	20.9	3	3.98	19.9	30
UL 1850-1910	19.4	4	6.52	16.9	30
4.1MHz AWGN					
Frequency	Output Power	Ant Gain	Cable Loss	EIRP(dBm)	Limit(dBm)
DL 728-746	-7.63	1.2	0.3	-6.7	17
DL 869-894	-7.39	1.2	0.3	-6.5	17
DL 1930-1990	-8.5	3	0.3	-5.8	17
UL 698-716	17.8	3	3.52	17.3	30
UL 824-849	19.0	3	3.98	18.0	30
UL 1850-1910	18.3	4	6.52	15.8	30

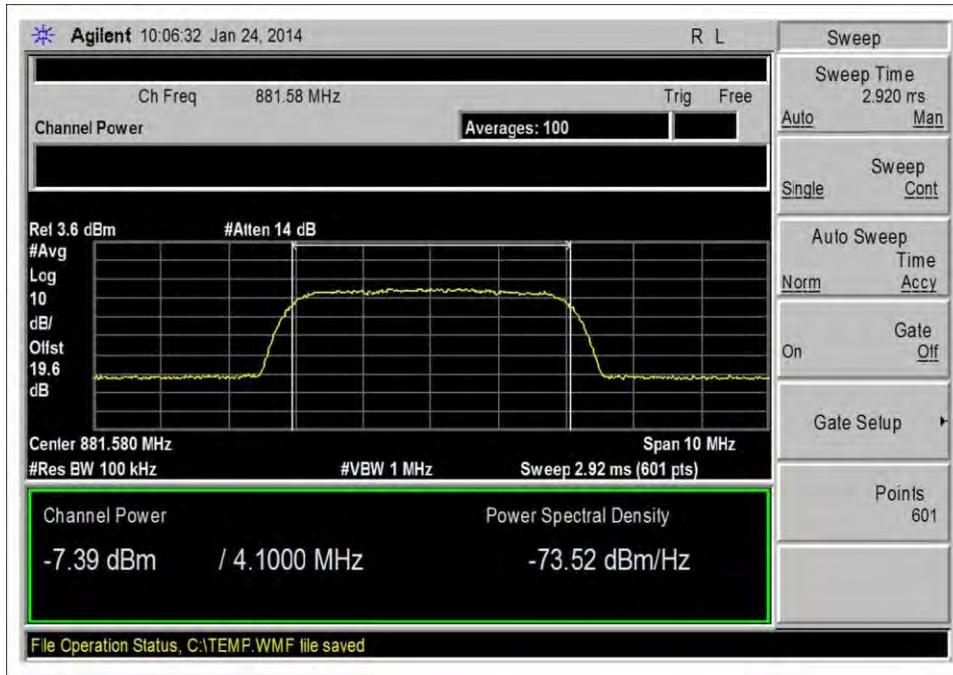
Test Data



DL_728-746_AWGN



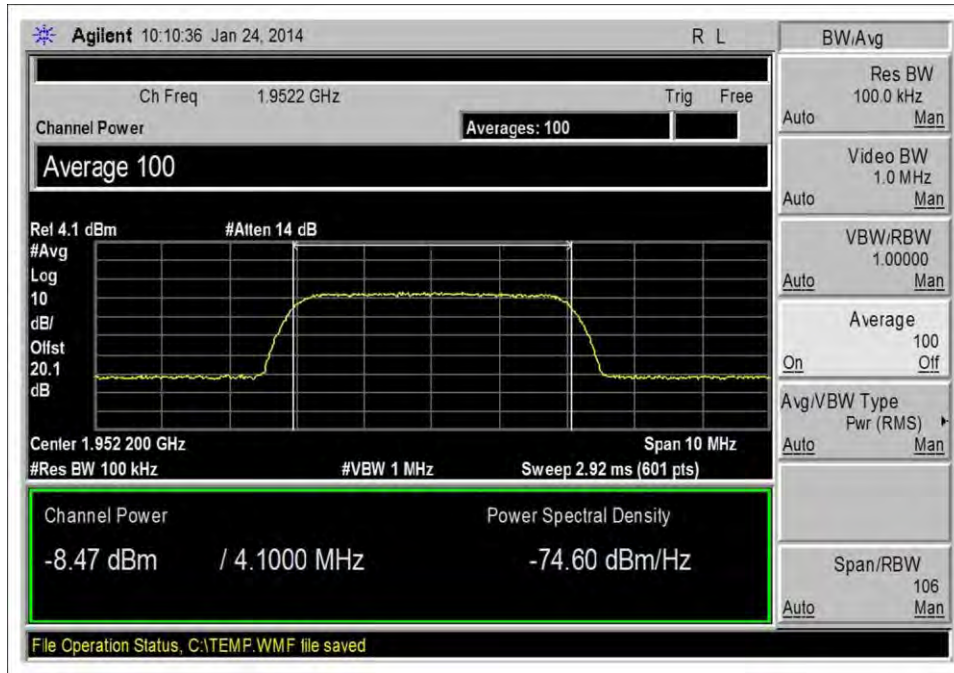
DL_728-746_GSM



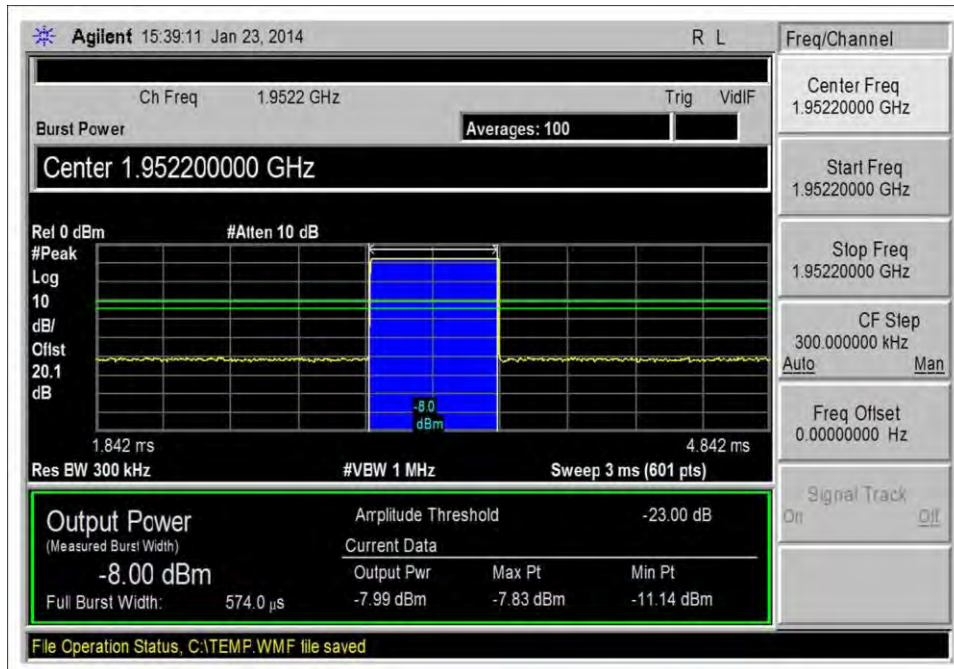
DL_869-894_AWGN



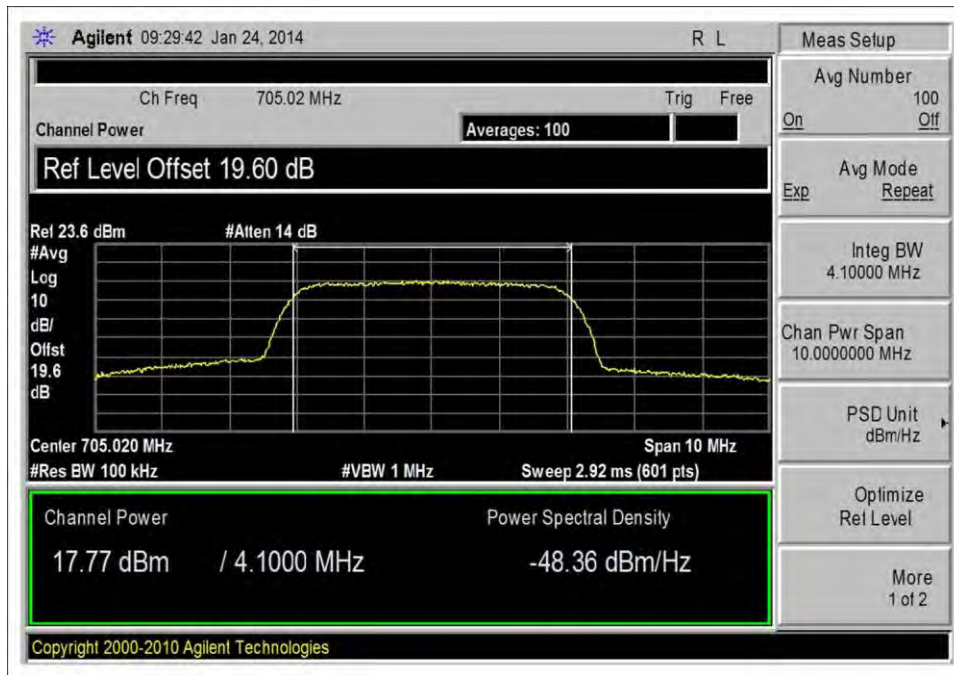
DL_869-894_GSM



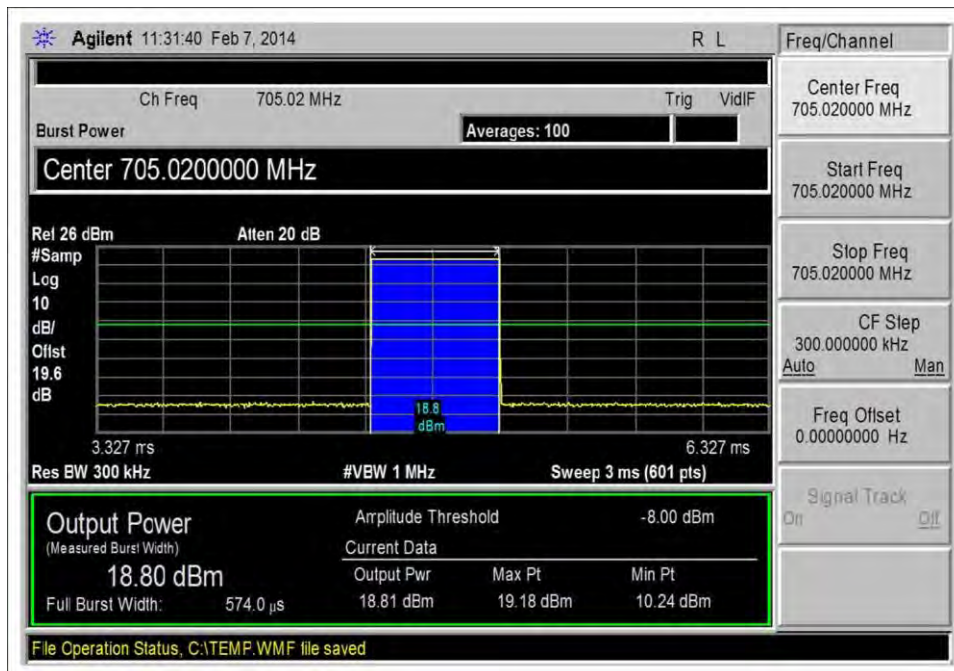
DL_1930-1990_AWGN



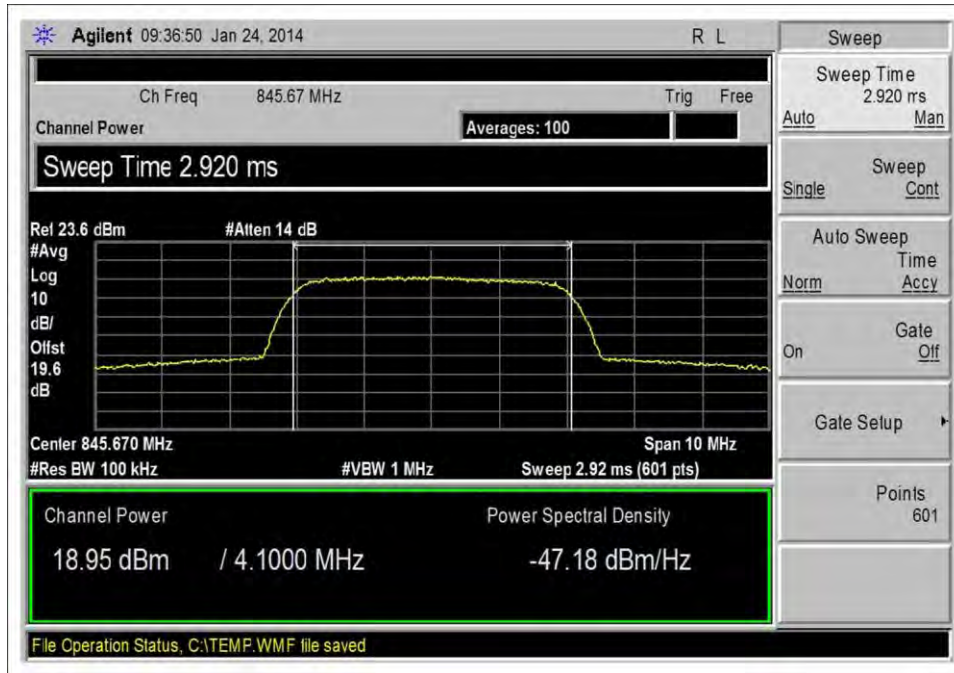
DL_1930-1990_GSM



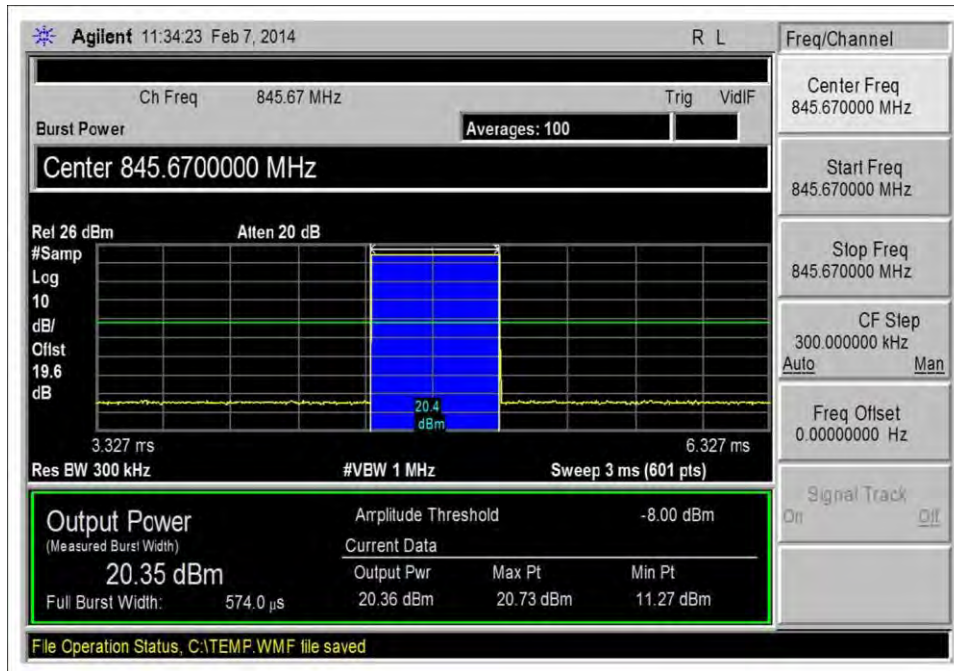
UL_698-716_AWGN



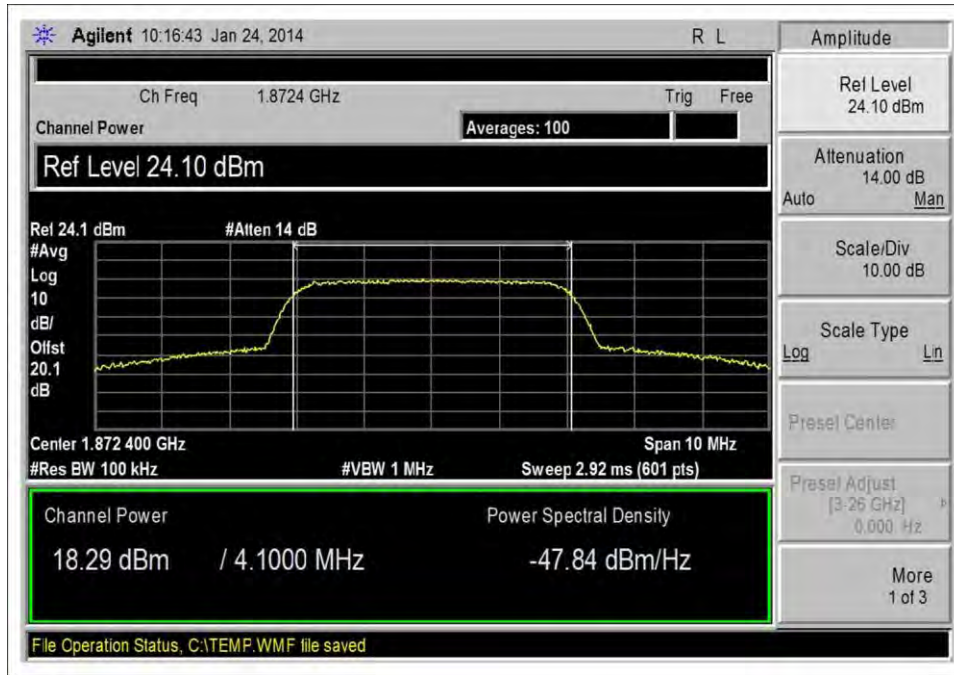
UL_698-716_GSM



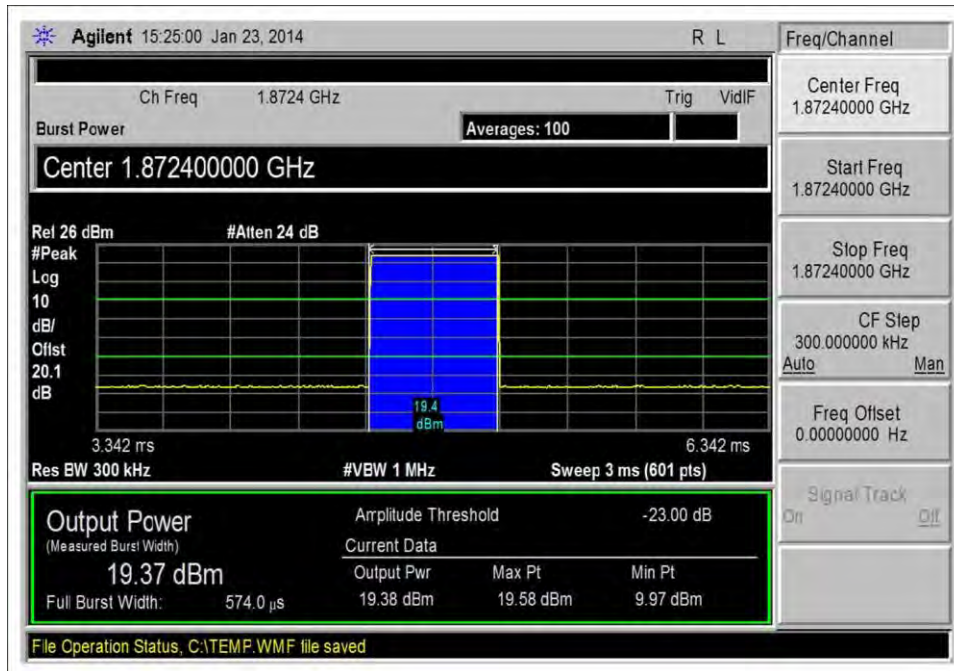
UL_824-849_AWGN



UL_824-849_GSM



UL_1850-1910_AWGN



UL_1850-1910_GSM

Test Setup Photo(s)



Clause 7.3 Maximum Gain

Test Conditions / Setup

Test Location: CKC Laboratories • 110 Olinda Place • Brea, CA 92823 • 714-993-6112

Customer: **Cellphone-Mate, Inc.**

Specification: **7.3 Maximum Booster Gain Computation**

Work Order #: **95252** Date: 01/23/2014

Test Type: **Conducted Emissions**

Equipment: Mobile Wideband Consumer Signal
Booster

Manufacturer: Cellphone-Mate, Inc. Tested By: Don Nguyen

Model: TriFlex-2Go-A 110V 60Hz

S/N: (none)

Test Equipment:

Asset #	Description	Model	Calibration Date	Cal Due Date
02672	Spectrum Analyzer	E4446A	8/14/2013	8/14/2015
03431	Attenuator	89-20-21	9/5/2013	9/5/2015
02945	Cable	32022-2-2909K-36TC	10/30/2013	10/30/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Mobile Wideband Consumer Signal Booster *	Cellphone-Mate, Inc.	TriFlex-2Go-A	(none)

Support Devices:

Function	Manufacturer	Model #	S/N
Signal Generator	Agilent	E4438C	MY42081492
AC to 9Vdc Power Adapter	SureCall	GFP451DA-0945-1	(none)

Test Conditions / Notes:

The EUT is placed on the test bench. Gain is set to the maximum gain for all bands.
 Evaluation performed at the Outside (Donor) and Inside (Server) antenna port.
 Test performed at for each of the following bands: UL 698-716MHz, UL 824-849MHz, UL 1850-1910MHz, DL 728-746MHz, DL 869-894MHz, DL 1930-1990MHz
 Pulsed GSM and AWGN 4.1MHz.
 Maximum Power Test procedure: The test was performed in accordance with section 7.3 of the FCC Publication: 935210 D03 Signal Booster Measurements v01r01: January 21, 2014. Site D. Test environment conditions: 21°C, 35%, 100kPa

Summary of Results

Pass: As summarized in table below, gain limit for mobile booster is 50db.

Test Data

Pulse GSM				4.1 MHz AWGN		
Frequency	Input(dBm)	Output (dBm)	Gain (dB)	Input(dBm)	Output (dBm)	Gain(dB)
DL 728-746	-51.7	-6.1	45.6	-51.6	-7.63	44.0
DL 869-894	-51.7	-6.0	45.7	-51.4	-7.39	44.0
DL 1930-1990	-52.6	-8.0	44.6	-52.0	-8.5	43.5
UL 698-716	-27.5	18.8	46.3	-28.1	17.8	45.9
UL 824-849	-26.2	20.4	46.6	-26.7	19.0	45.7
UL 1850-1910	-26.5	19.4	45.9	-26.3	18.3	44.6
	Pulse GSM		4.1 MHz AWGN			
UL gain vs DL gain 689/728	0.7		1.9			
UL gain vs DL gain 824/869	0.9		1.6			
UL gain vs DL gain 1850/1930	1.3		1.1			

Test Setup Photo(s)

For this section there is no setup photo since it consists only of calculations.

Clause 7.4 Intermodulation Product

Test Conditions / Setup

Test Location: CKC Laboratories • 110 Olinda Place • Brea, CA 92823 • 714-993-6112

Customer: **Cellphone-Mate, Inc.**
 Specification: **7.4 Intermodulation**
 Work Order #: **95252** Date: 01/23/2014
 Test Type: **Conducted Emissions**
 Equipment: Mobile Wideband Consumer Signal
 Booster
 Manufacturer: Cellphone-Mate, Inc. Tested By: Don Nguyen
 Model: TriFlex-2Go-A 110V 60Hz
 S/N: (none)

Test Equipment:

Asset #	Description	Model	Calibration Date	Cal Due Date
02672	Spectrum Analyzer	E4446A	8/14/2013	8/14/2015
03431	Attenuator	89-20-21	9/5/2013	9/5/2015
02945	Cable	32022-2-2909K-36TC	10/30/2013	10/30/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Mobile Wideband Consumer Signal Booster *	Cellphone-Mate, Inc.	TriFlex-2Go-A	(none)

Support Devices:

Function	Manufacturer	Model #	S/N
Signal Generator	Agilent	E4438C	MY42081492
Signal Generator	Agilent	E4433B	US40052164
Combiner	Anaren	44000	0583
AC to 9Vdc Power Adapter	SureCall	GFP451DA-0945-1	(none)

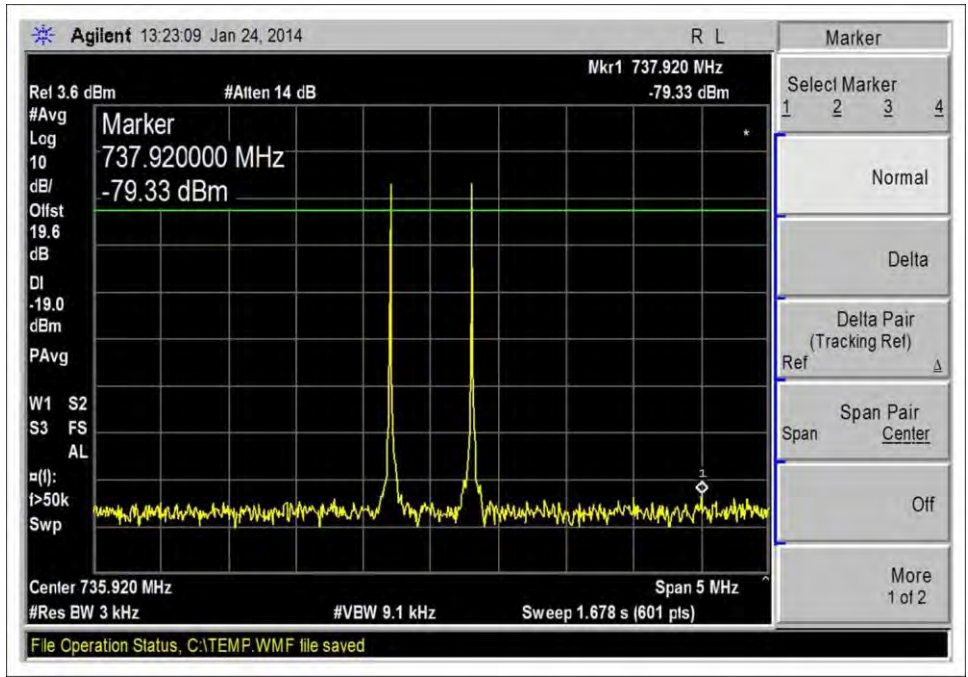
Test Conditions / Notes:

The EUT is placed on the test bench. Gain is set to the maximum gain for all bands.
 Evaluation performed at the Outside (Donor) and Inside (Server) antenna port.
 Test performed at for each of the following bands: UL 698-716MHz, UL 824-849MHz, UL 1850-1910MHz, DL 728-746MHz, DL 869-894MHz, DL 1930-1990MHz
 Maximum Power Test procedure: The test was performed in accordance with section 7.4 of the FCC Publication: 935210 D03 Signal Booster Measurements v01r01: January 21, 2014. Site D. Test environment conditions: 21°C, 35%, 100kPa

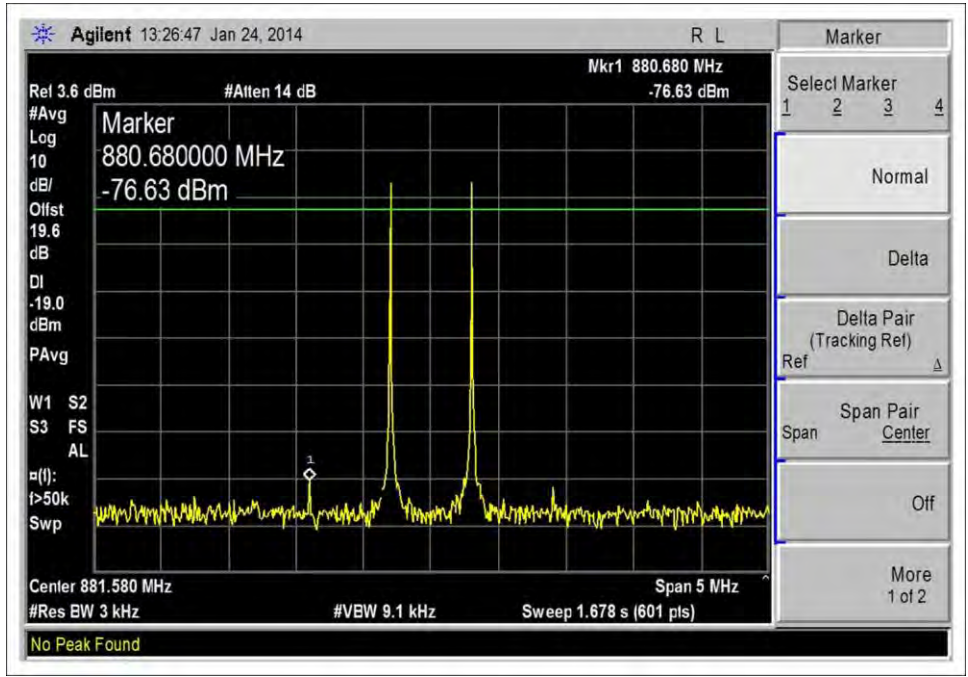
Summary of Results

Pass: All intermodulation products are measured below -19dbm limit.

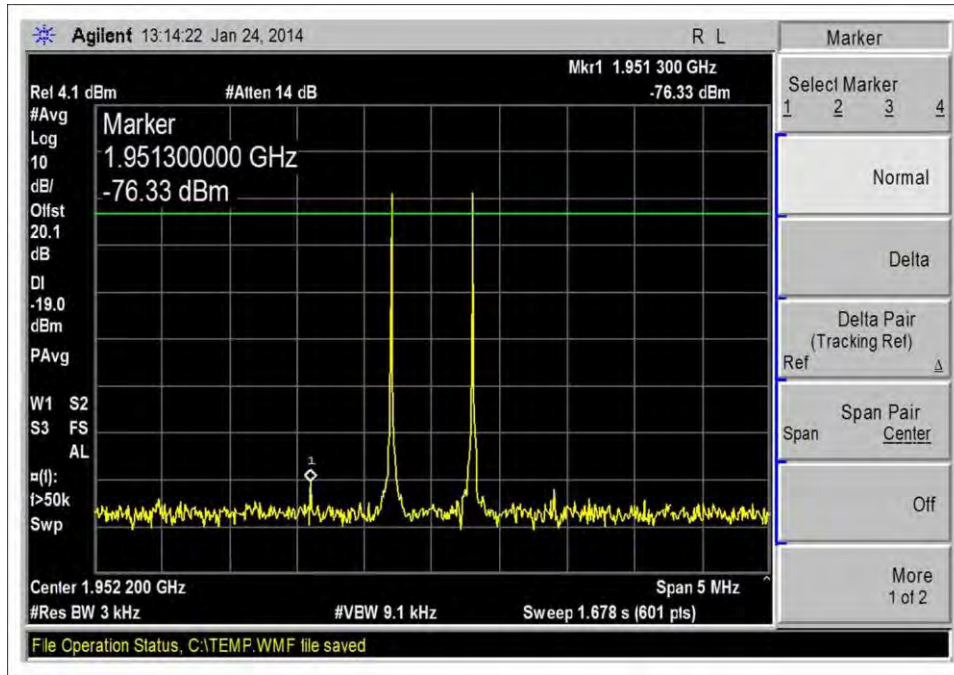
Test Data



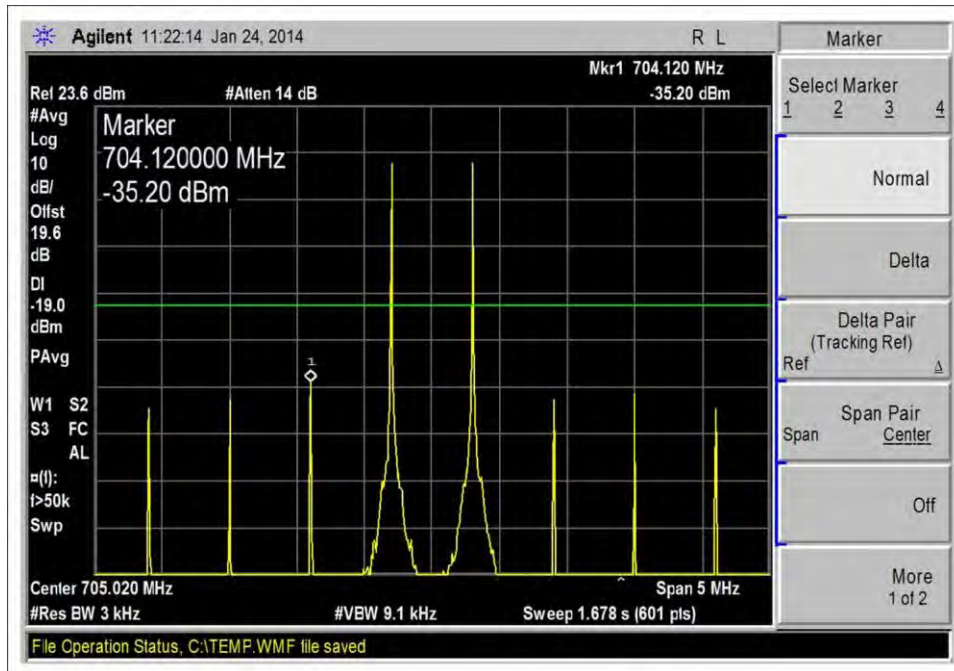
DL_698-716MHz



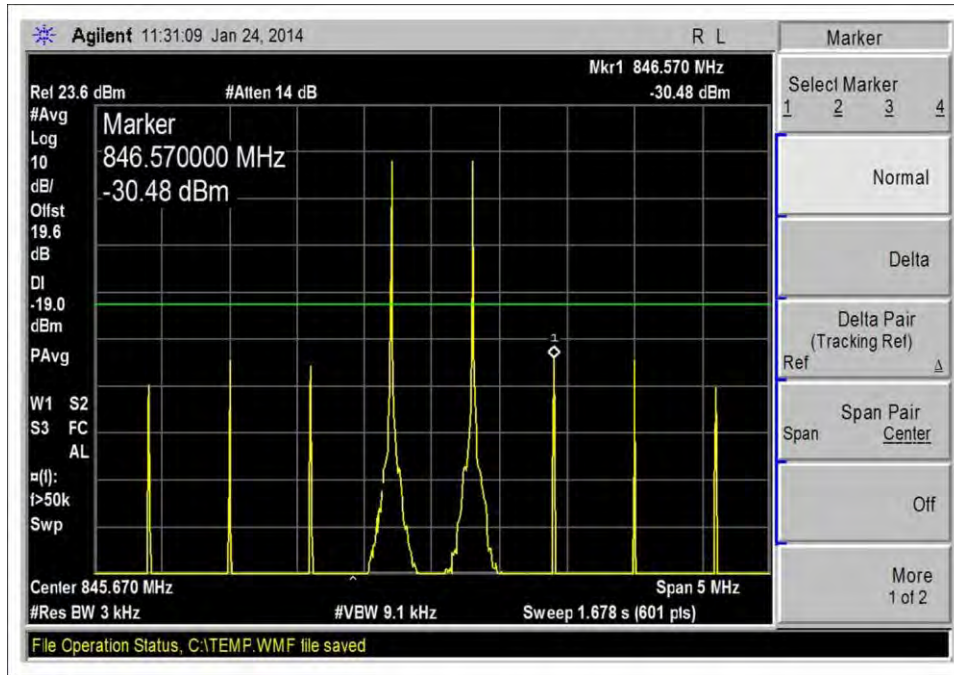
DL_869-894MHz



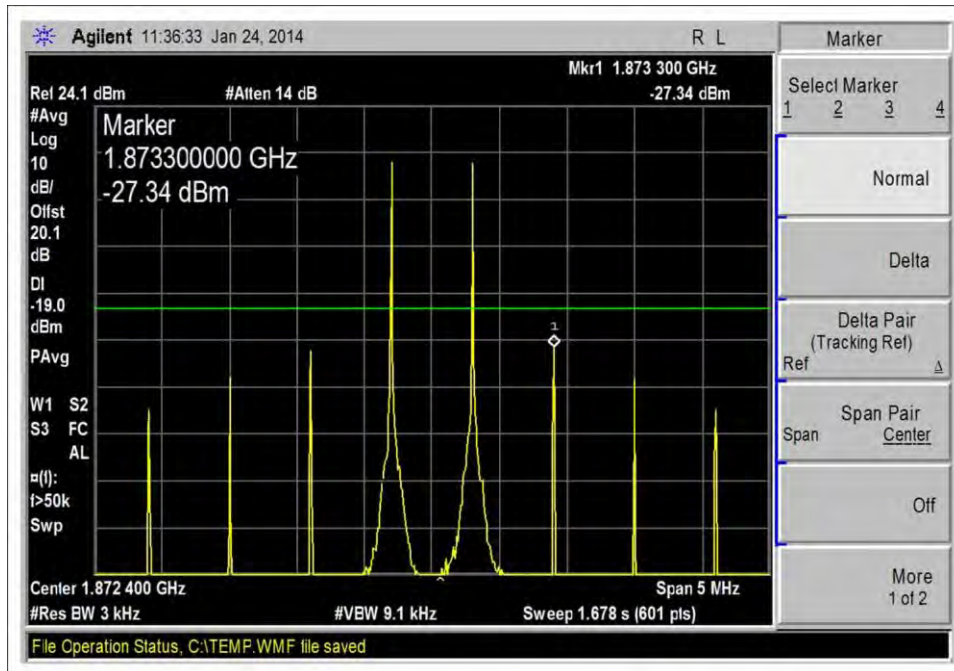
DL_1930-1990MHz



UL_698-716MHz



UL_824-849MHz



UL_1850-1910MHz

Test Setup Photo(s)



Clause 7.5 Out of Band Emissions

Test Conditions / Setup

Test Location: CKC Laboratories • 110 Olinda Place • Brea, CA 92823 • 714-993-6112

Customer: **Cellphone-Mate, Inc.**
 Specification: **7.5 Out of Band Emissions**
 Work Order #: **95252** Date: 01/23/2014
 Test Type: **Conducted Emissions**
 Equipment: Mobile Wideband Consumer Signal
 Booster
 Manufacturer: Cellphone-Mate, Inc. Tested By: Don Nguyen
 Model: TriFlex-2Go-A 110V 60Hz
 S/N: (none)

Test Equipment:

Asset #	Description	Model	Calibration Date	Cal Due Date
02672	Spectrum Analyzer	E4446A	8/14/2013	8/14/2015
03431	Attenuator	89-20-21	9/5/2013	9/5/2015
02945	Cable	32022-2-2909K-36TC	10/30/2013	10/30/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Mobile Wideband Consumer Signal Booster *	Cellphone-Mate, Inc.	TriFlex-2Go-A	(none)

Support Devices:

Function	Manufacturer	Model #	S/N
Signal Generator	Agilent	E4438C	MY42081492
AC to 9Vdc Power Adapter	SureCall	GFP451DA-0945-1	(none)

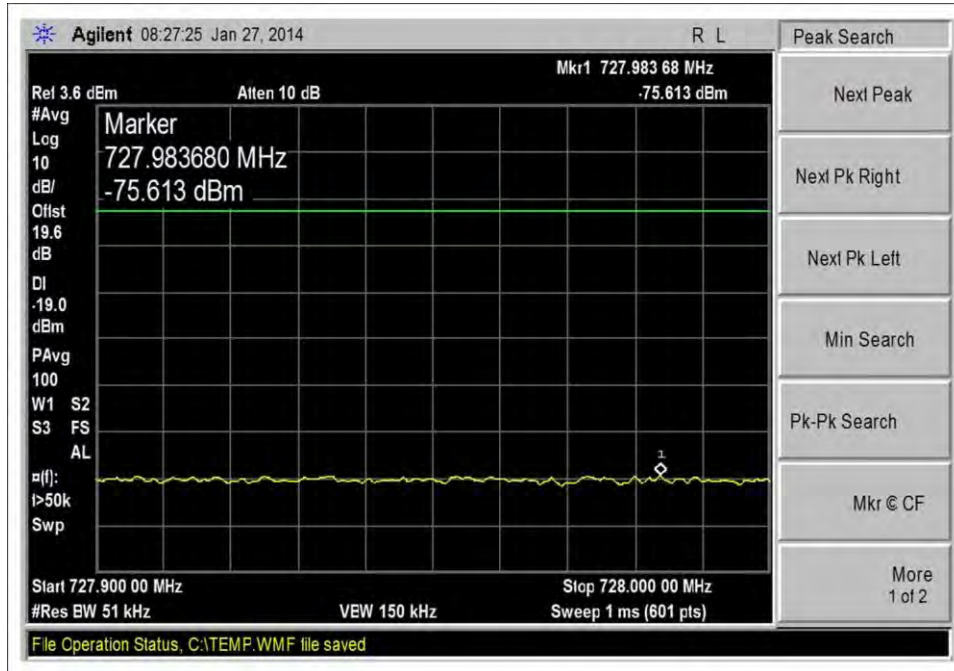
Test Conditions / Notes:

The EUT is placed on the test bench. Gain is set to the maximum gain for all bands.
 Evaluation performed at the Outside (Donor) and Inside (Server) antenna port.
 Test performed at for each of the following bands: UL 698-716MHz, UL 824-849MHz, UL 1850-1910MHz, DL 728-746MHz, DL 869-894MHz, DL 1930-1990MHz
 Maximum Power Test procedure: The test was performed in accordance with section 7.5 of the FCC Publication: 935210 D03 Signal Booster Measurements v01r01: January 21, 2014. Site D. Test environment conditions: 21°C, 35%, 100kPa

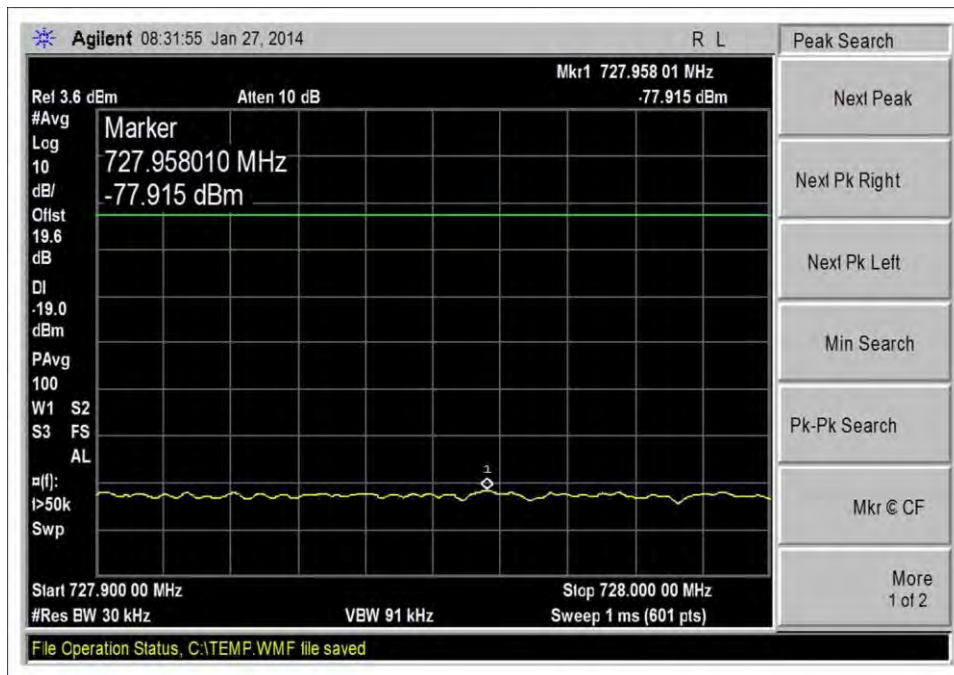
Summary of Results

Pass: As indicated in the plots that follow, all OBE are under the limit of -19dBm.

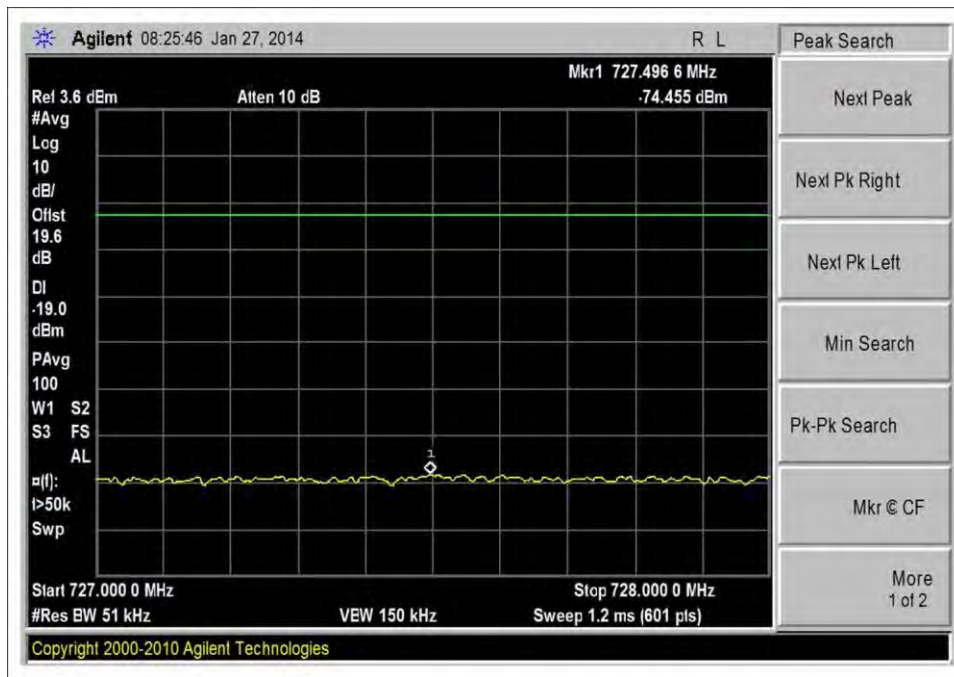
Test Data



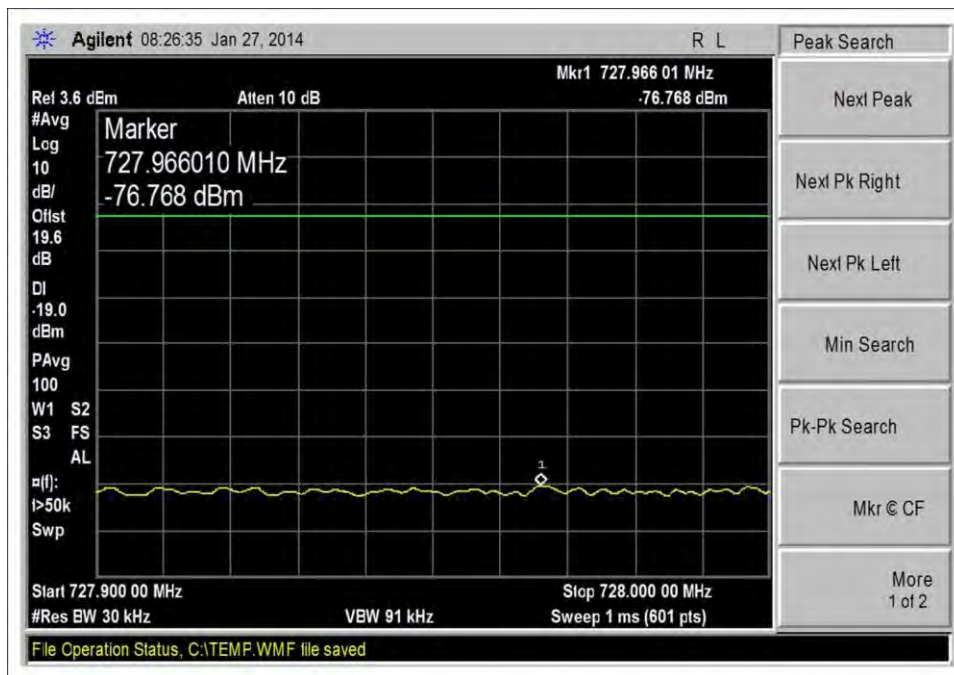
DL_728-746MHz_Low CH_CDMA_-20dbm



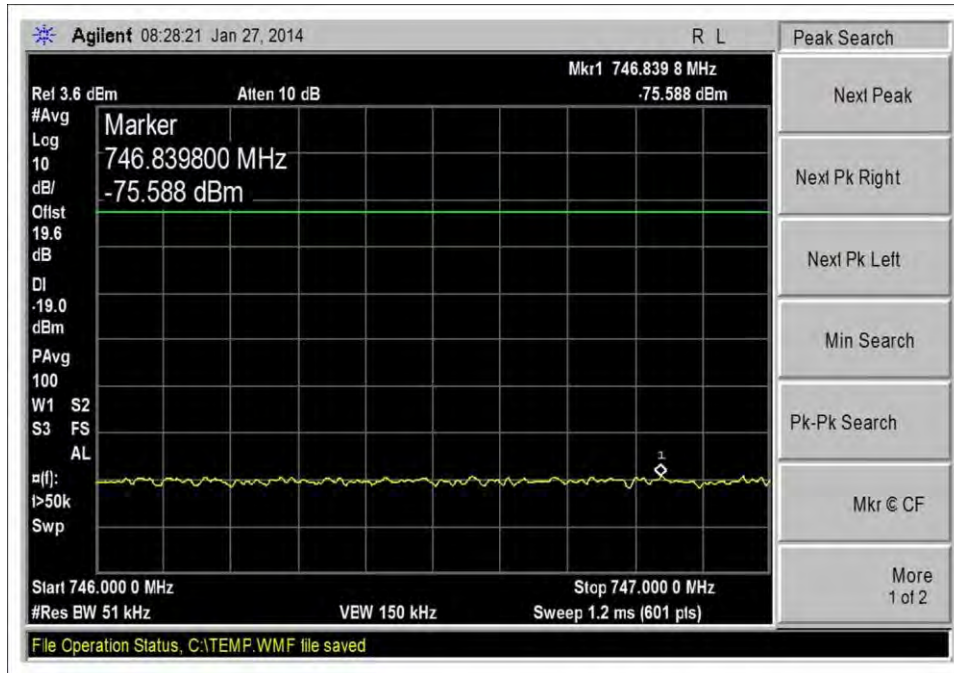
DL_728-746MHz_Low CH_CDMA_-20dbm_100kHz band



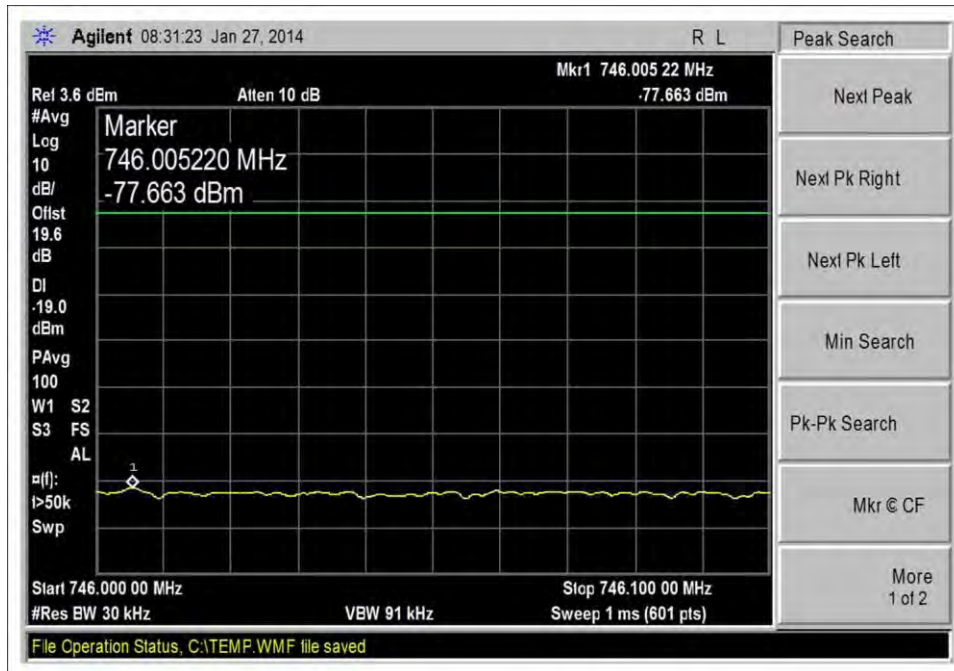
DL 728-746MHz_Low CH_CDMA_pre AGC



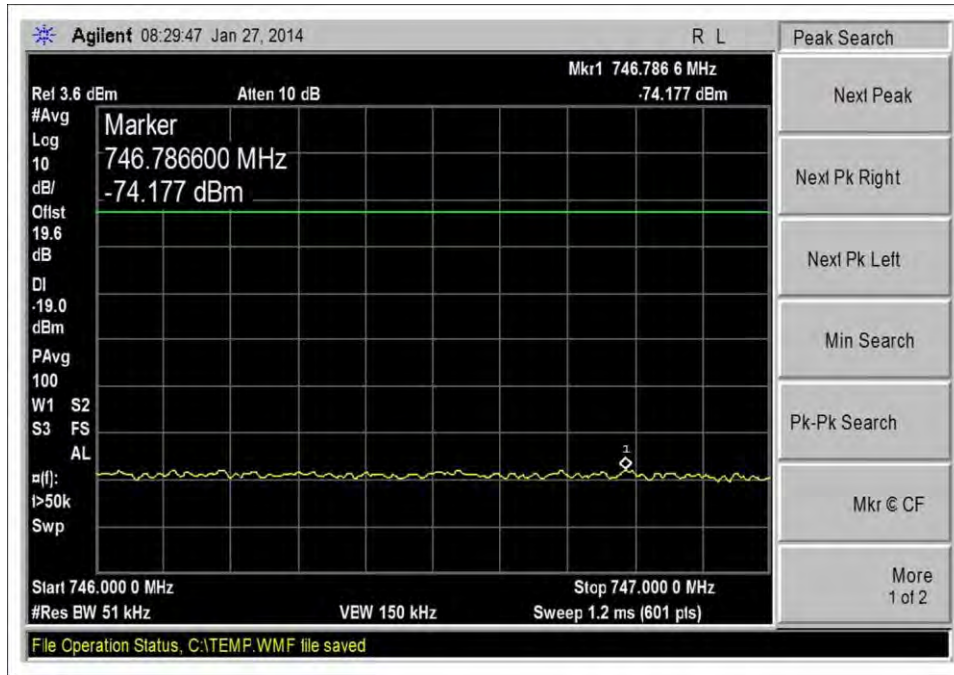
DL_728-746MHz_Low CH_CDMA_pre AGC_100kHz band



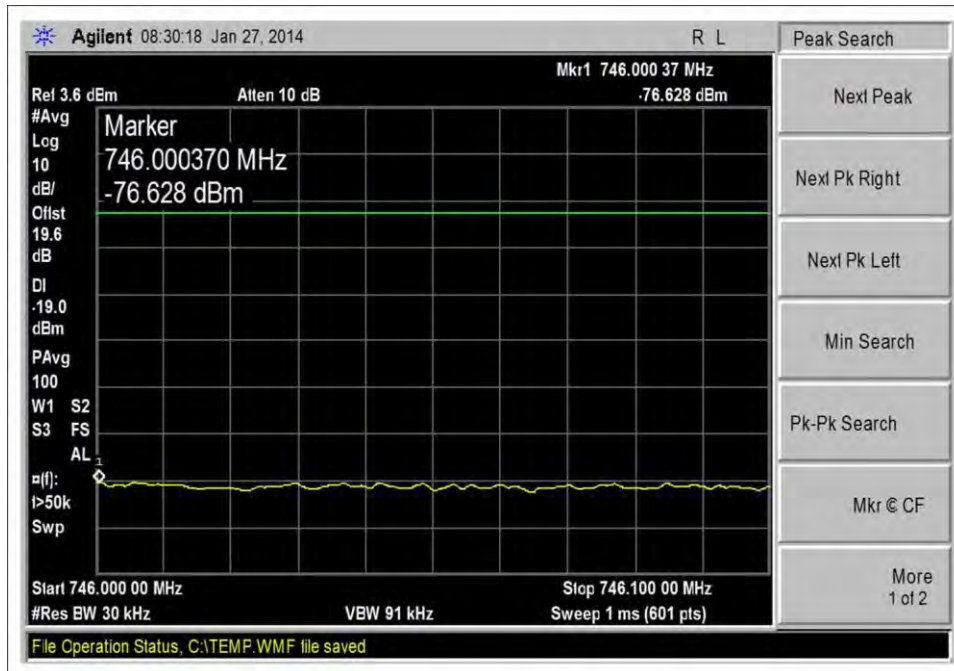
DL_728-746MHz_Hi CH_CDMA_-20dbm



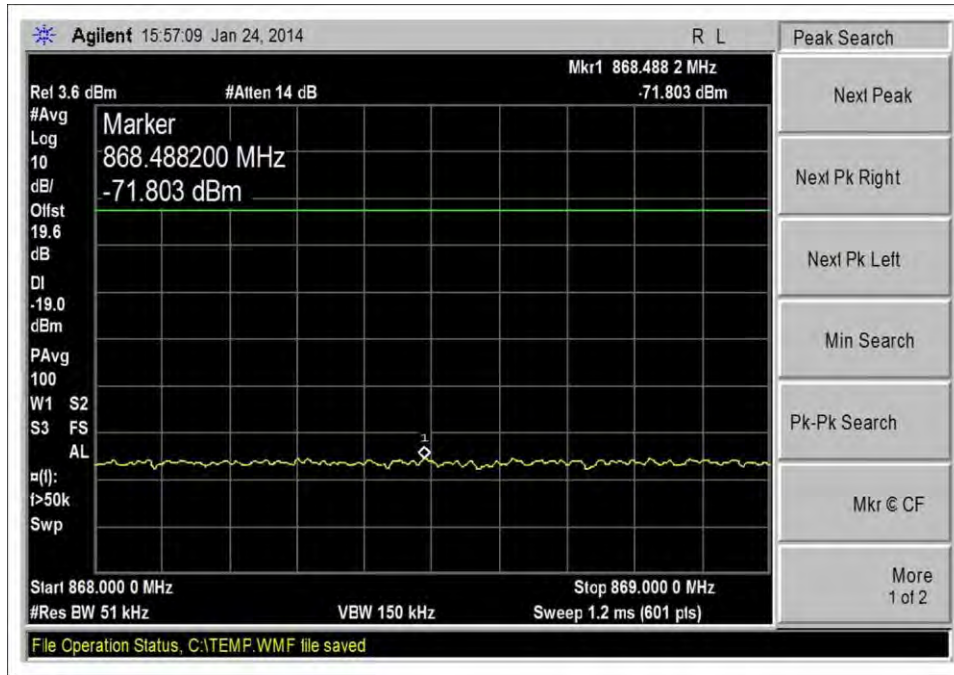
DL_728-746MHz_Hi CH_CDMA_-20dbm_100kHz band



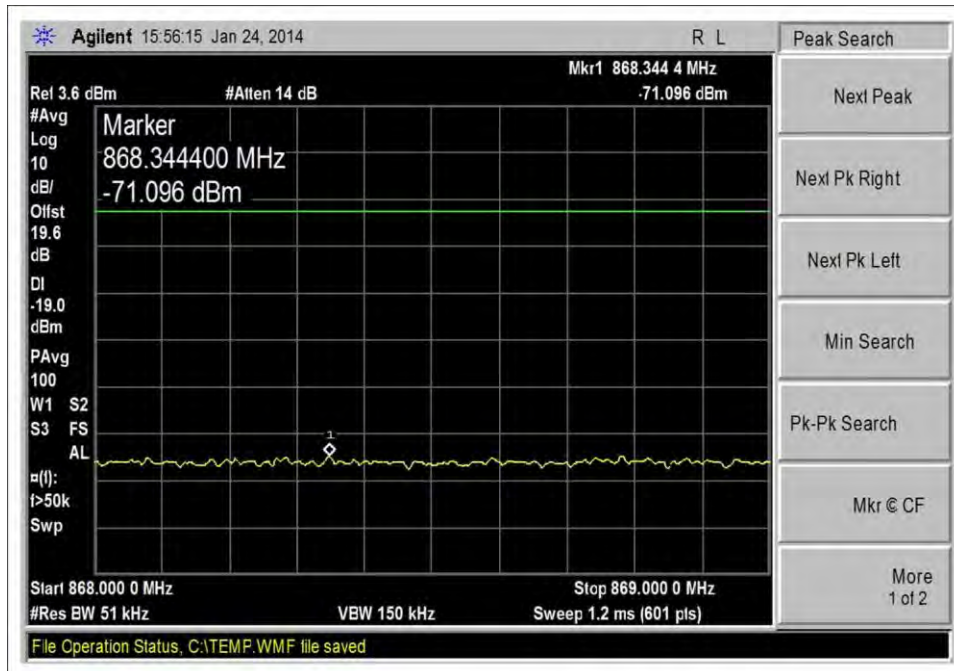
DL_728-746MHz_Hi CH_CDMA_pre AGC



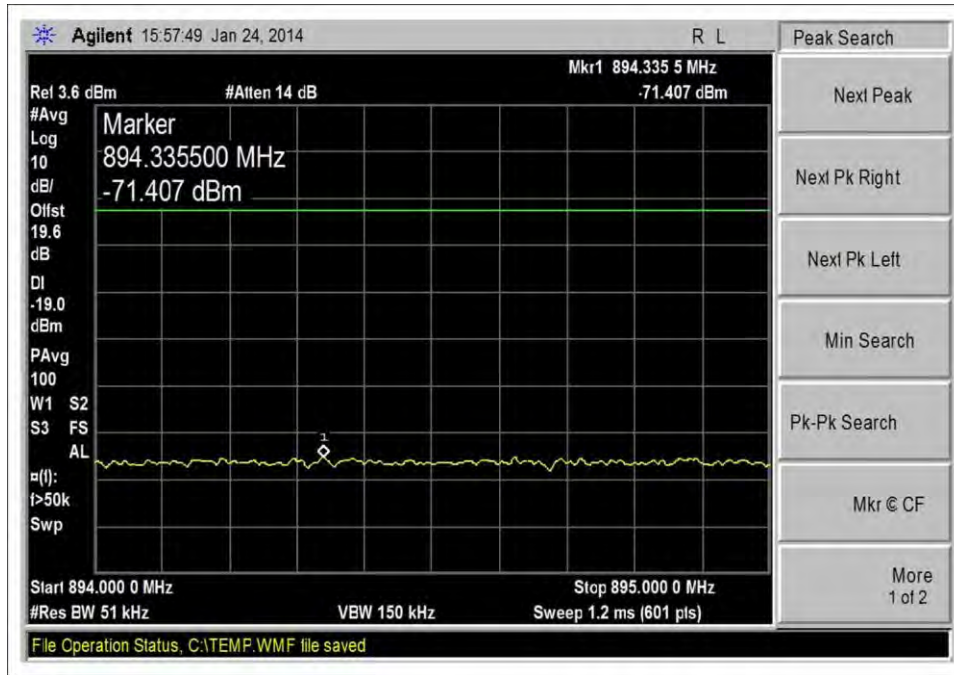
DL_728-746MHz_Hi CH_CDMA_pre AGC_100kHz band



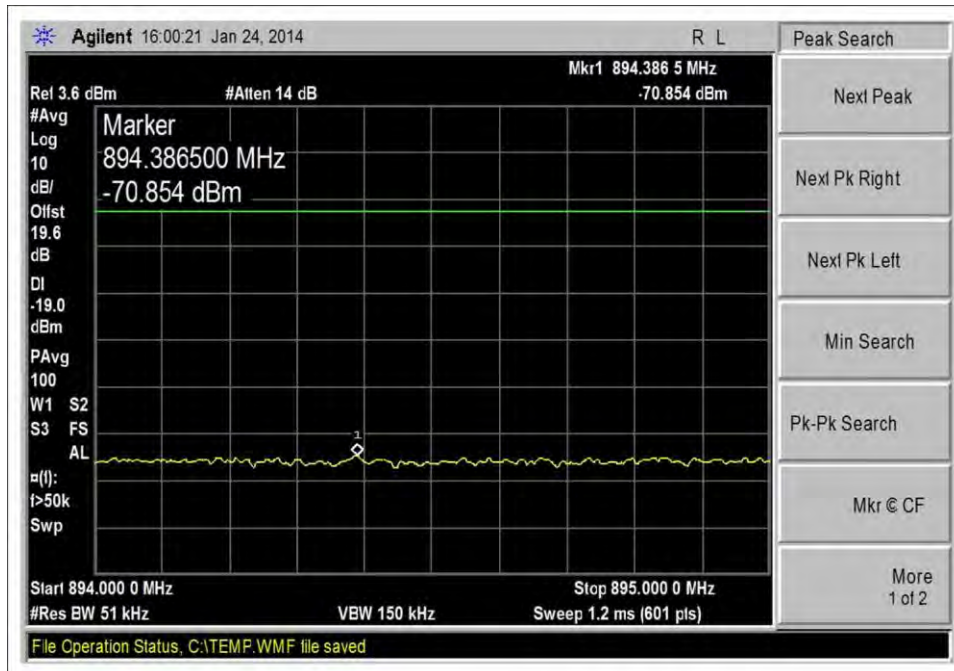
DL_869-894MHz_Low CH_CDMA_-20dbm



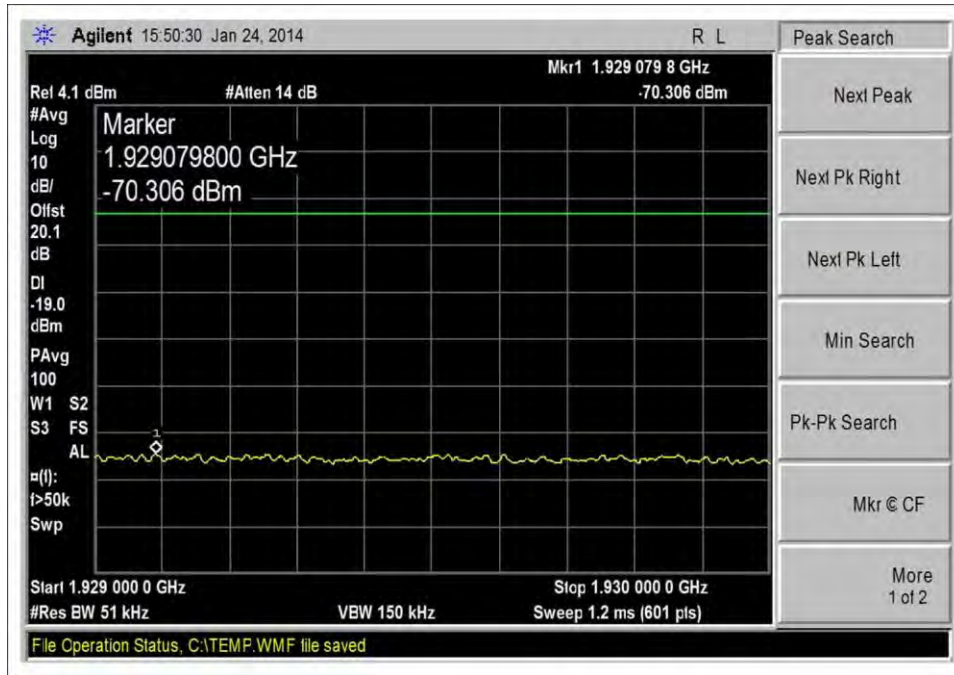
DL_869-894MHz_Low CH_CDMA_pre AGC



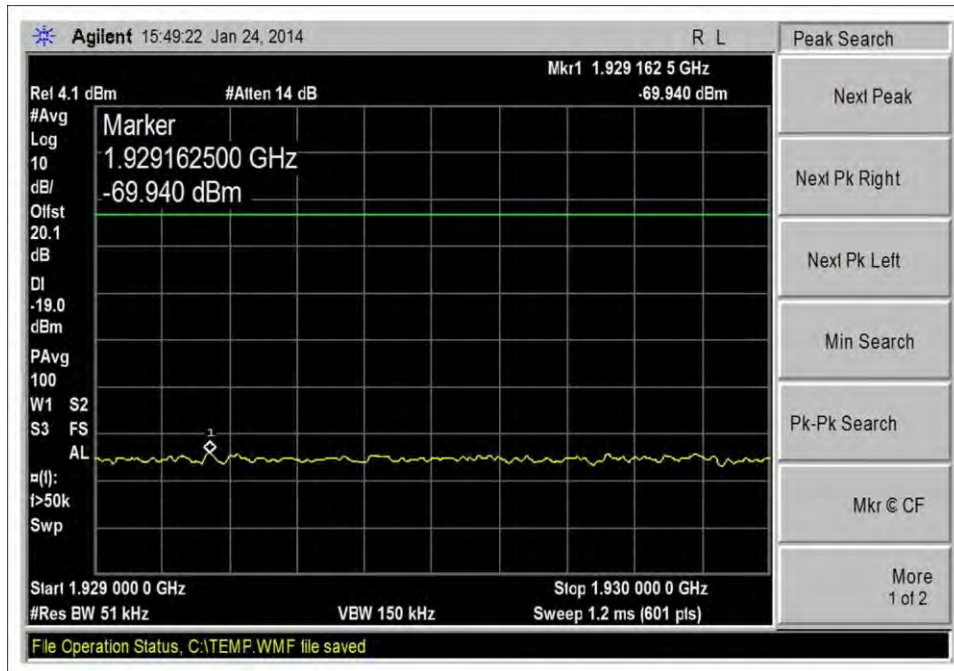
DL_869-894MHz_Hi CH_CDMA_-20dbm



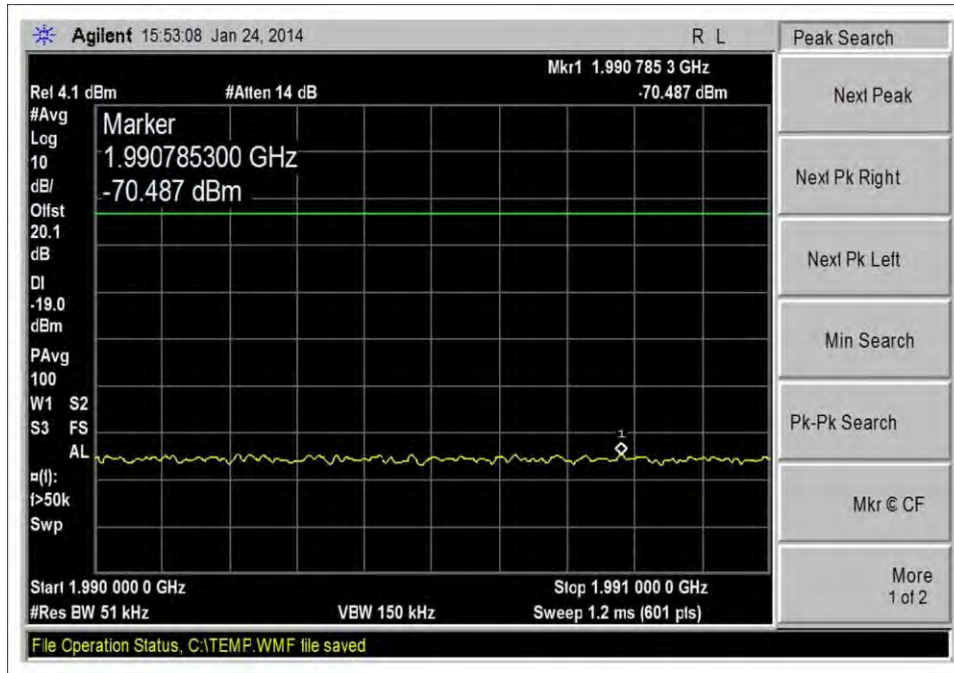
DL_869-894MHz_Hi CH_CDMA_pre AGC



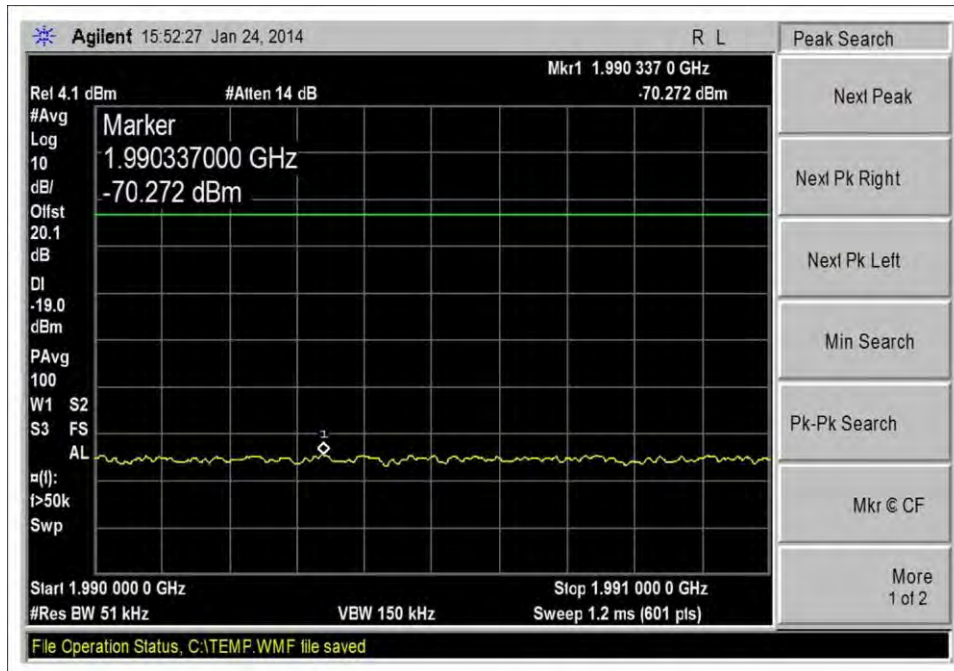
DL 1930-1990MHz_Low CH_CDMA_-20dbm



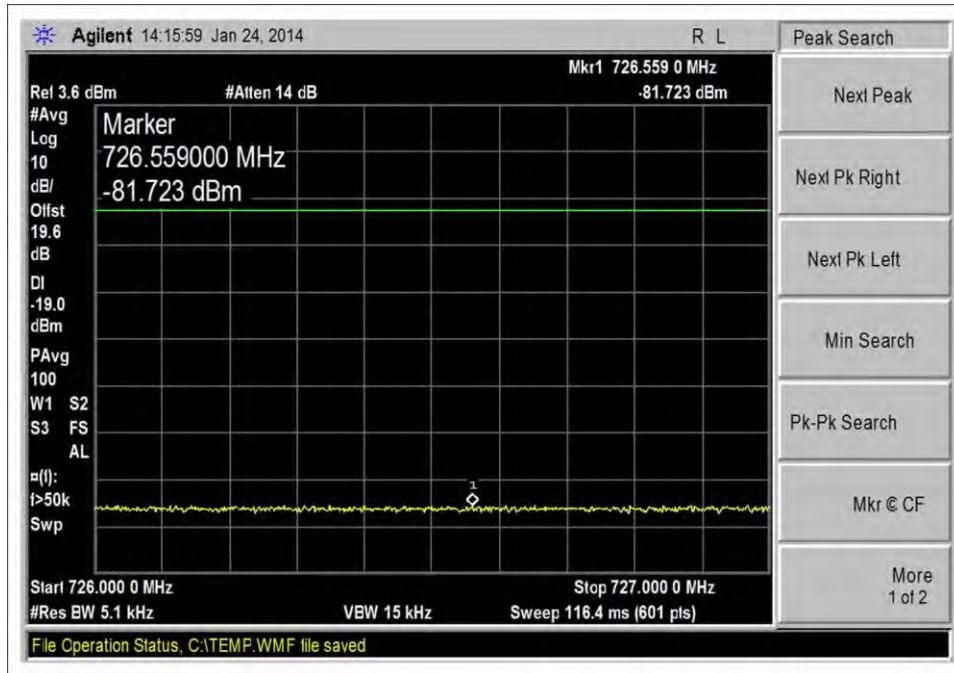
DL_1930-1990MHz_Low CH_CDMA_pre AGC



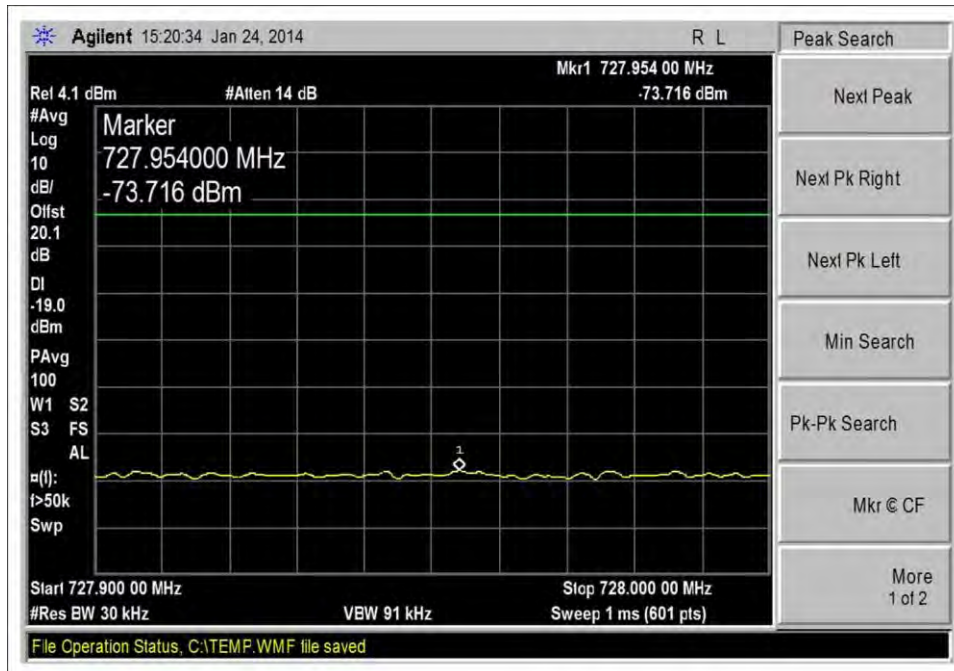
DL_1930-1990MHz_Hi CH_CDMA_-20dbm



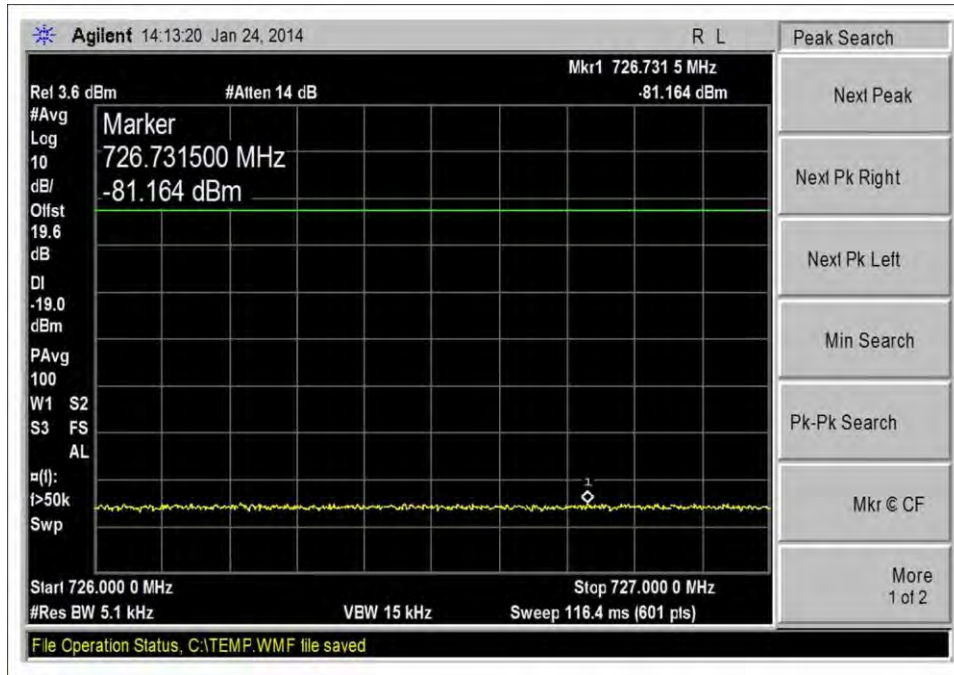
DL_1930-1990MHz_Hi CH_CDMA_pre AGC



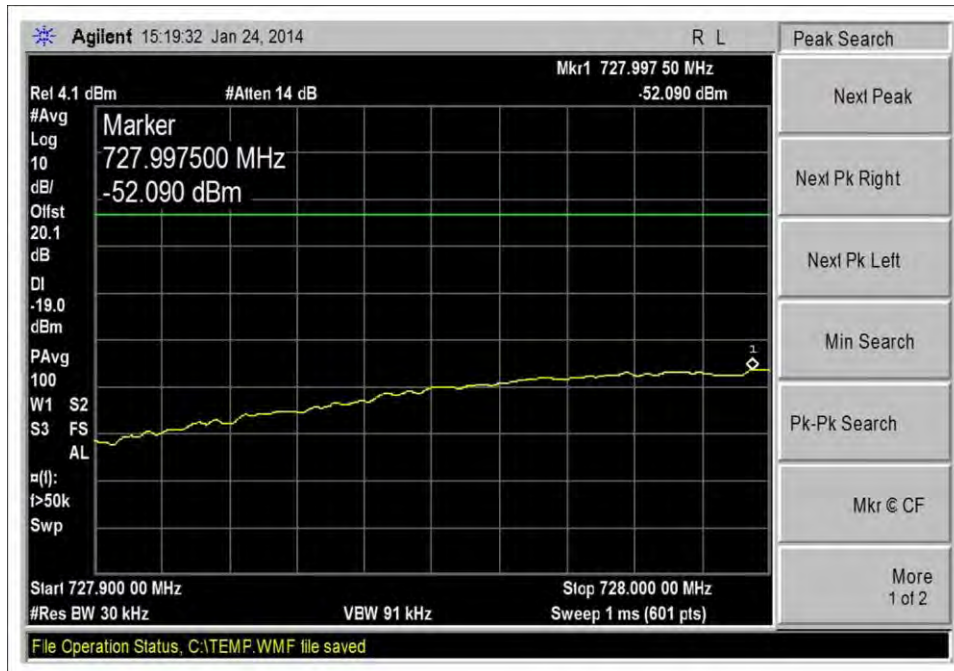
DL_728-746MHz_Low CH_GSM_-20dbm



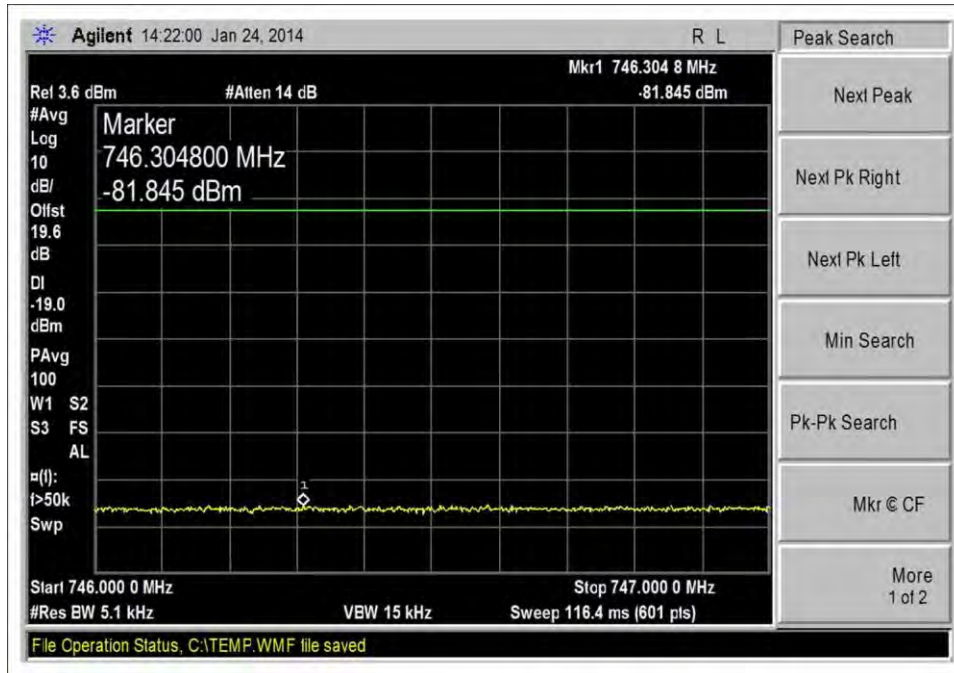
DL_728-746MHz_Low CH_GSM_-20dbm_100kHz band



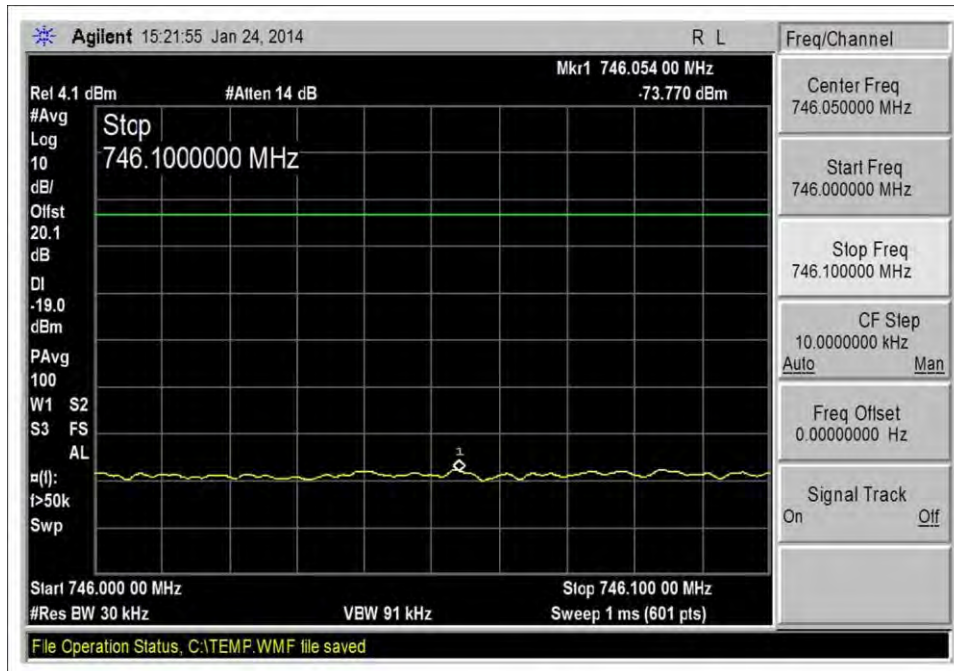
DL_728-746MHz_Low CH_GSM_pre AGC



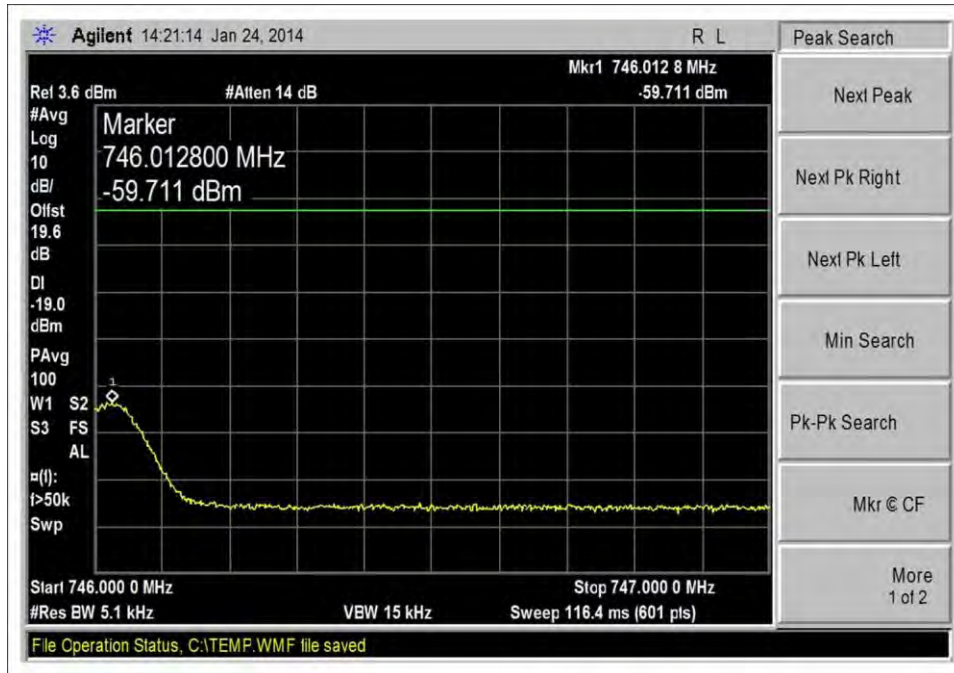
DL_728-746MHz_Low CH_GSM_pre AGC_100kHz band



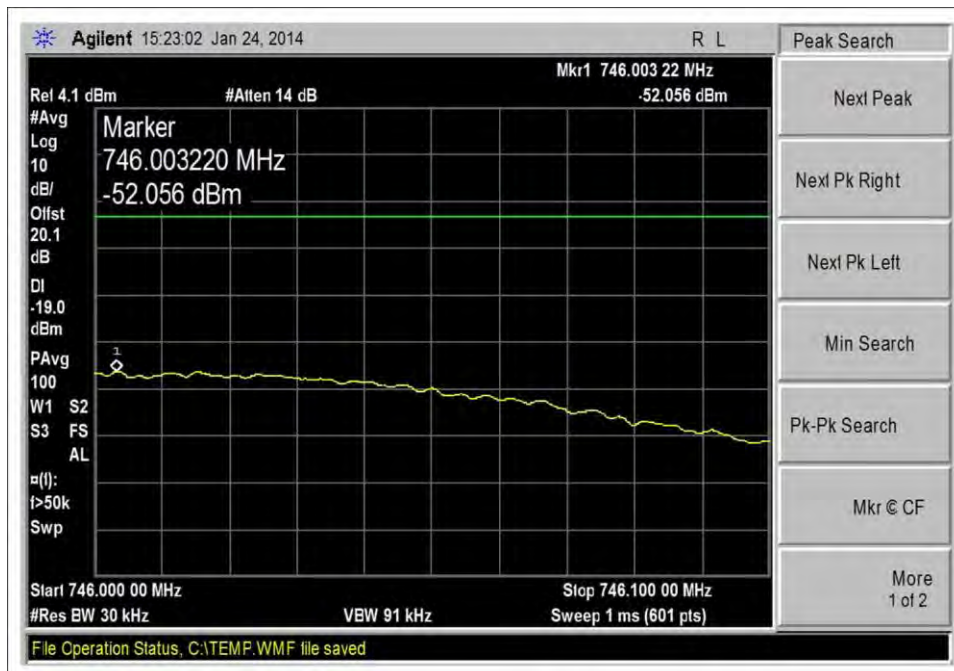
DL_728-746MHz_Hi CH_GSM_-20dbm



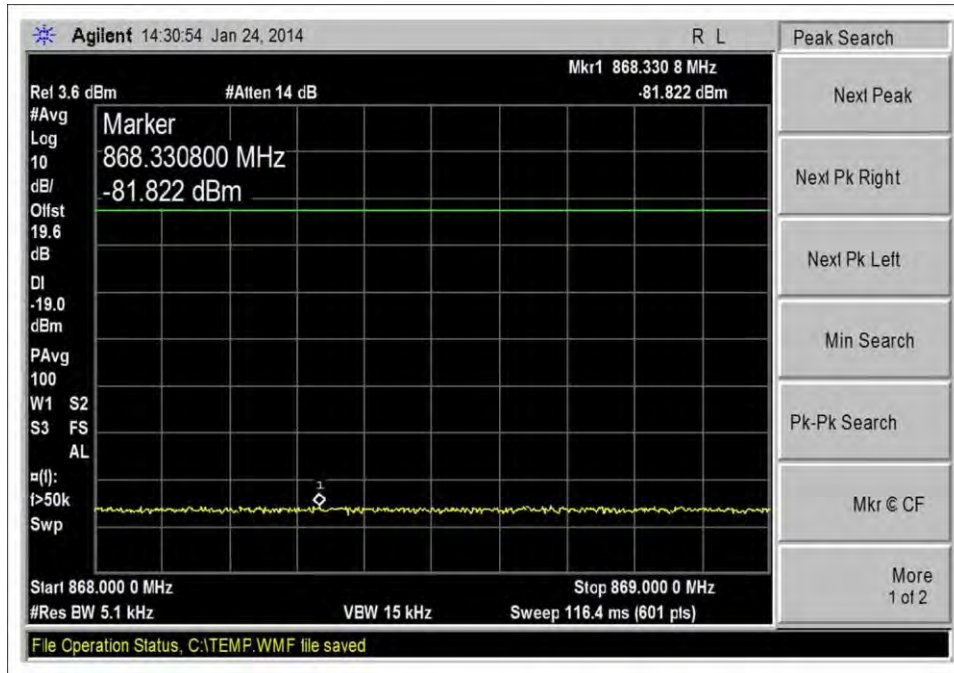
DL_728-746MHz_Hi CH_GSM_-20dbm_100kHz band



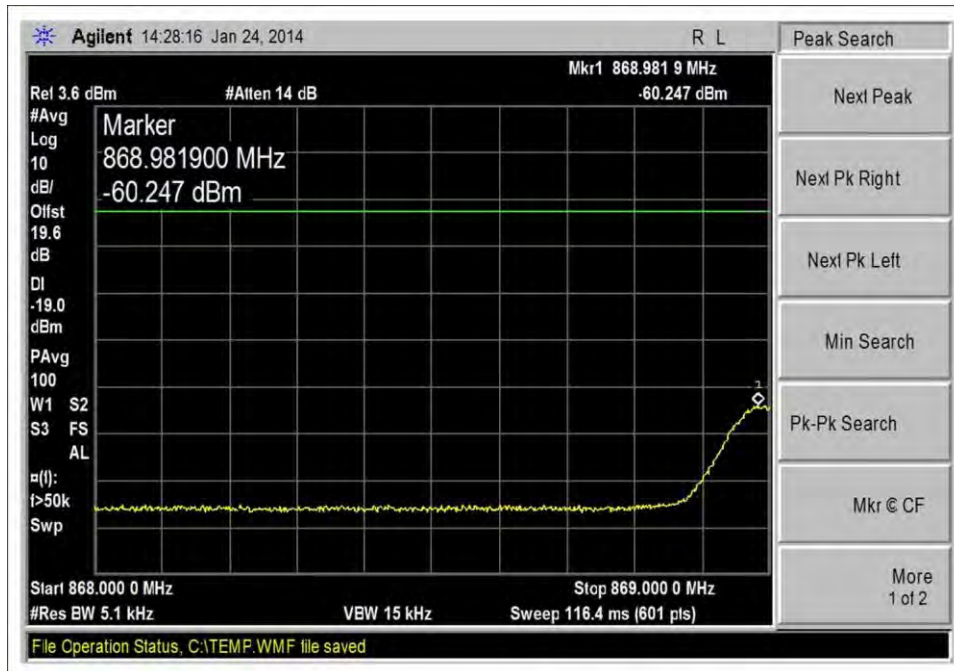
DL_728-746MHz_Hi CH_GSM_pre AGC



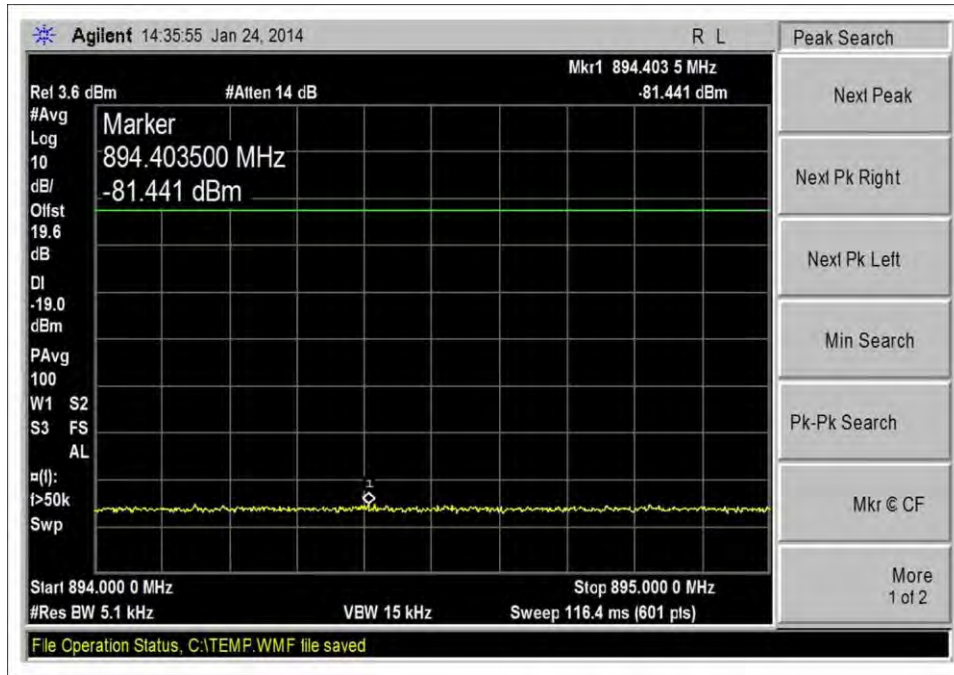
DL_728-746MHz_Hi CH_GSM_pre AGC_100kHz band



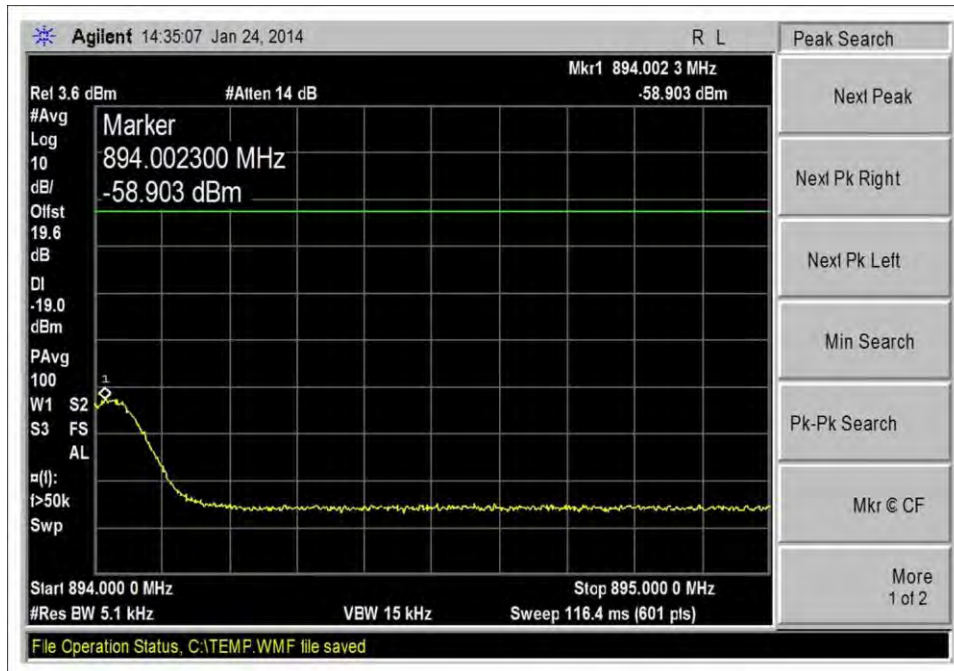
DL_869-894MHz_Low CH_GSM_-20dbm



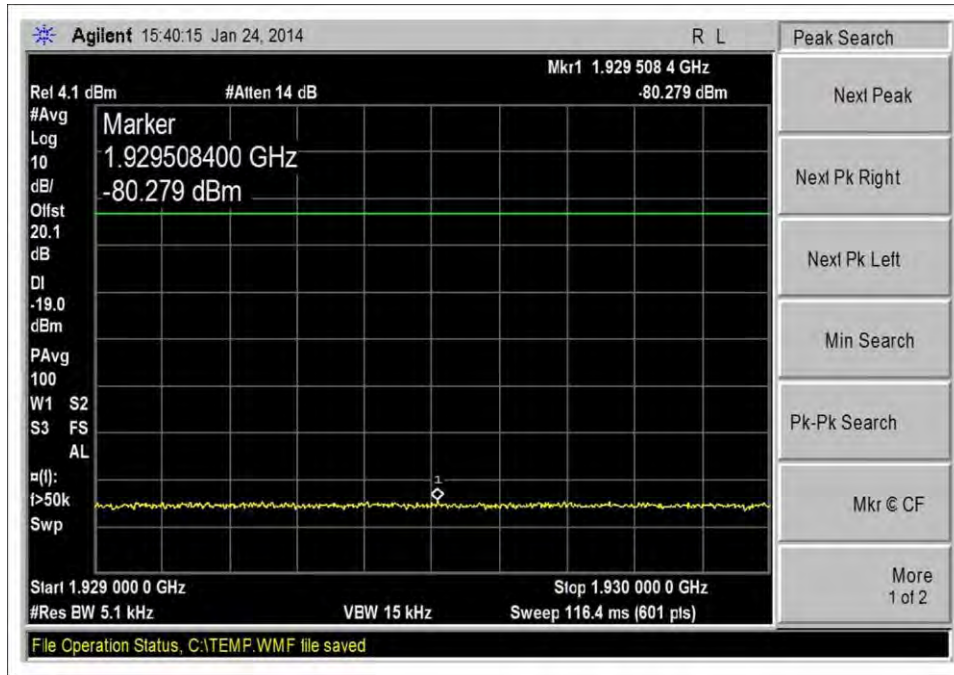
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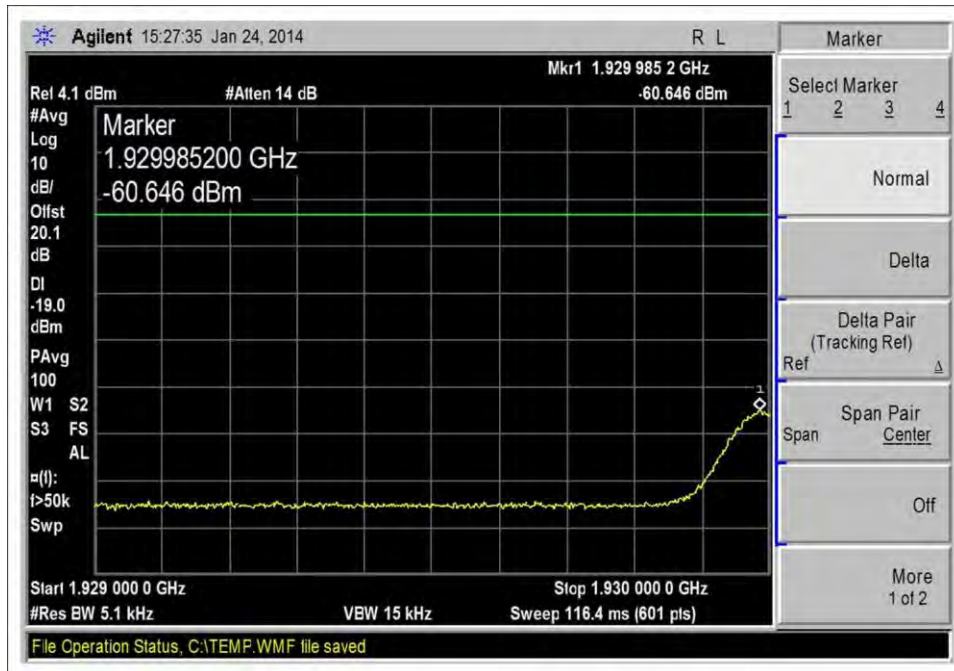
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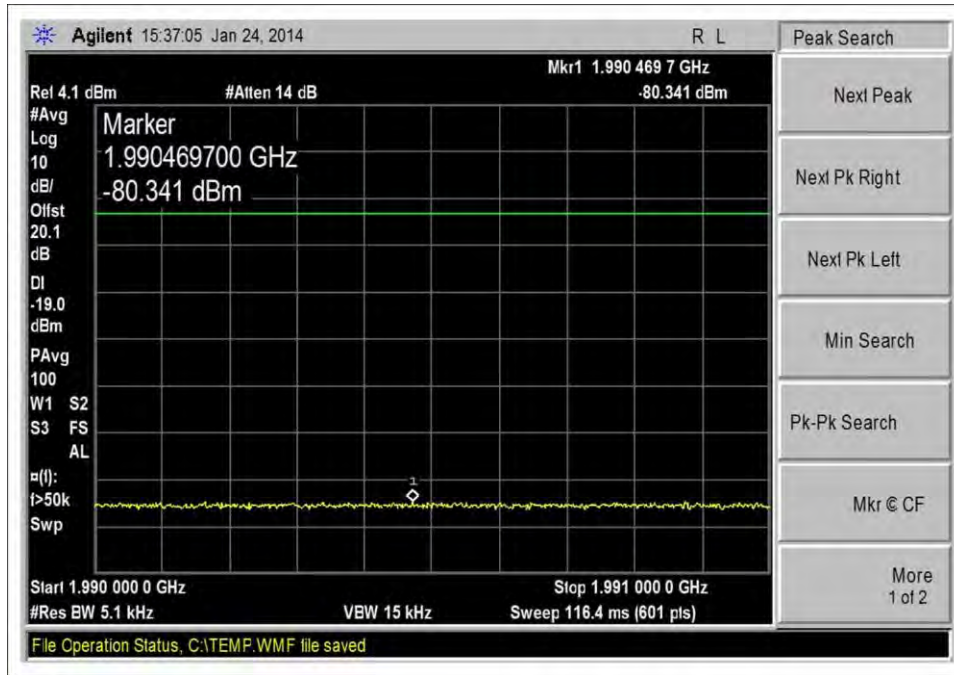
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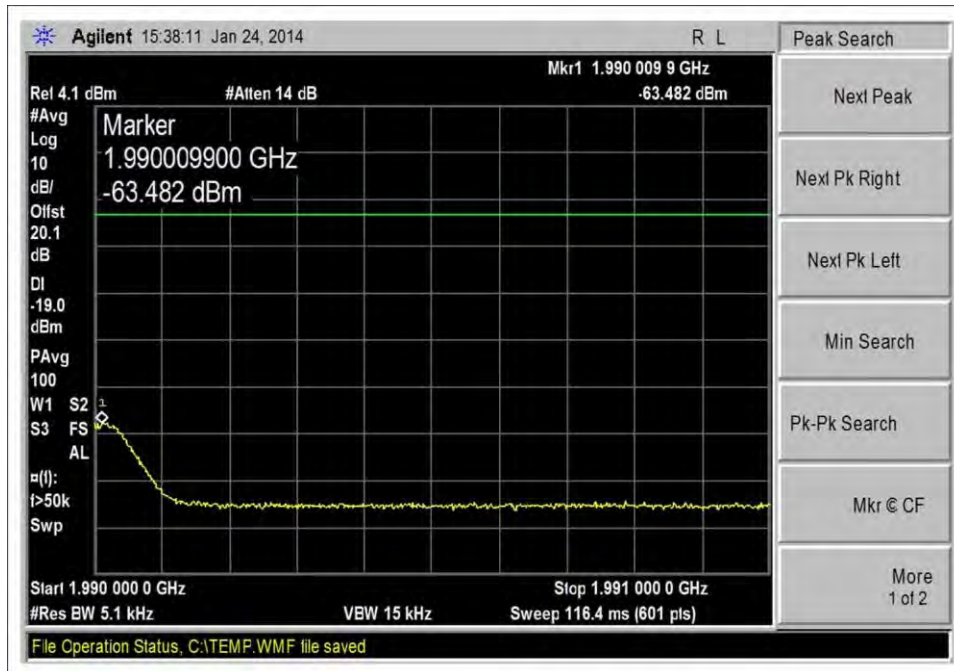
DL_1930-1990MHz_Low CH_GSM_-20dbm



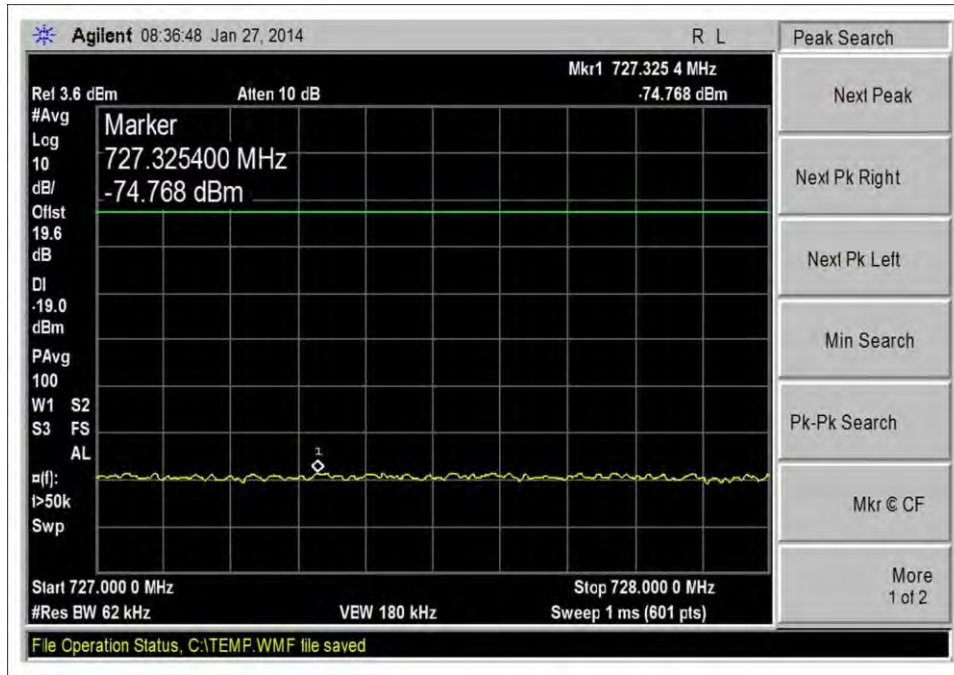
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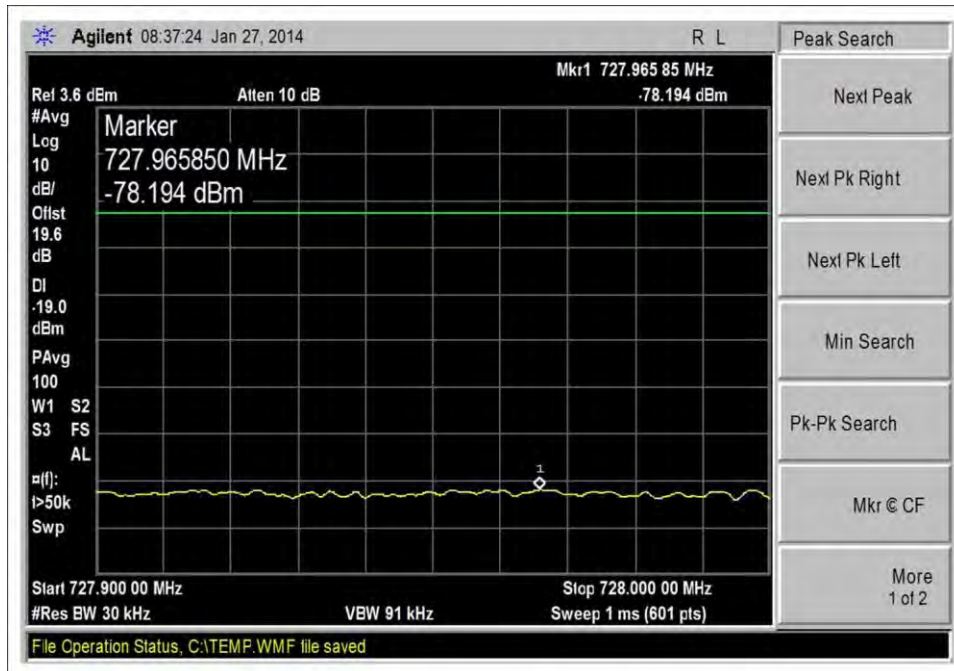
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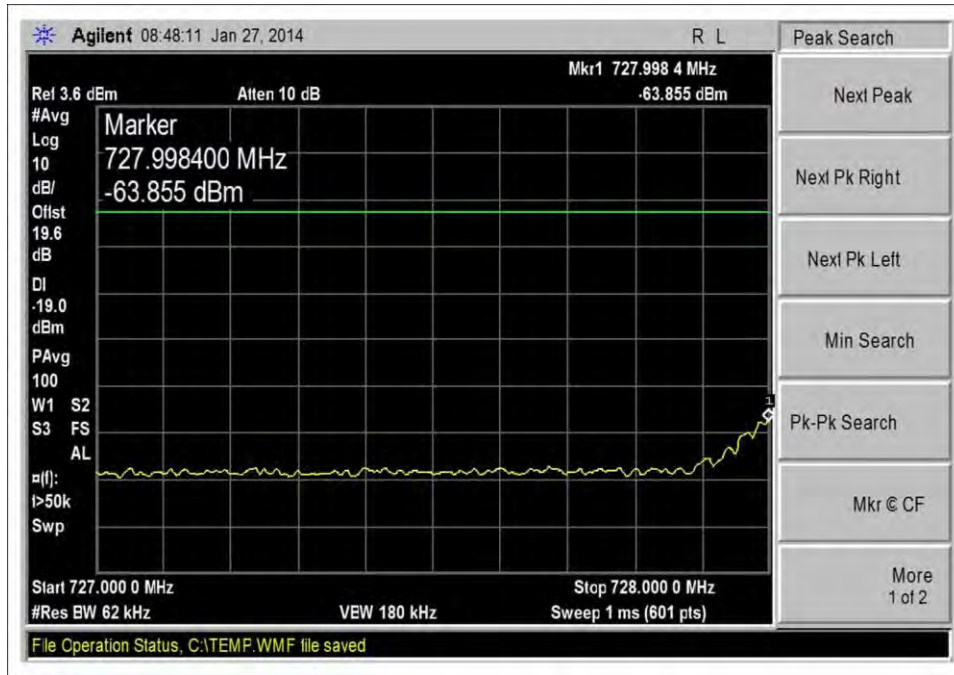
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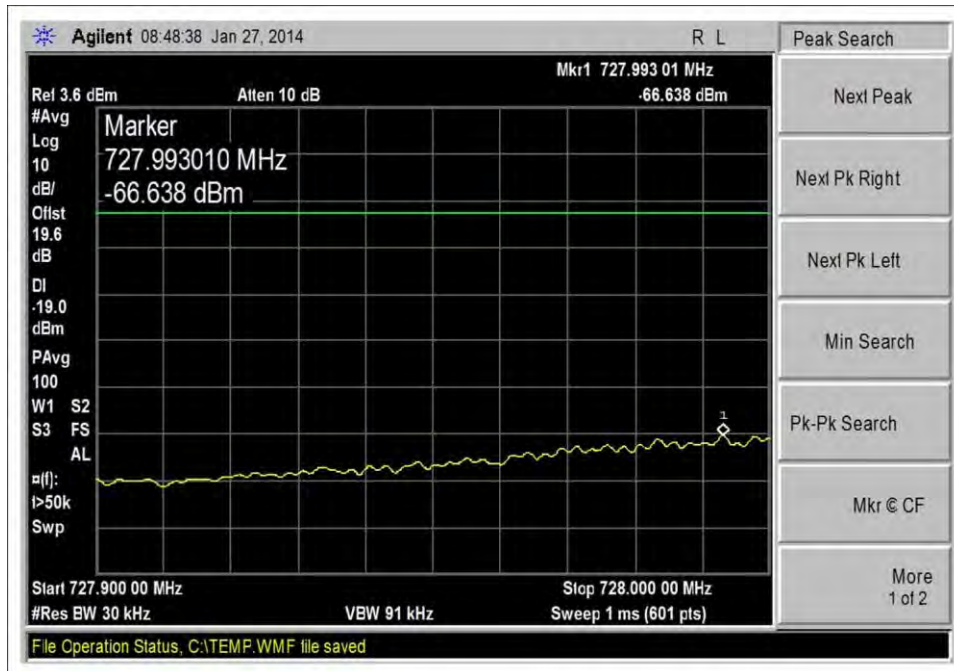
DL 728-746MHz_Low CH_LTE_-20dbm



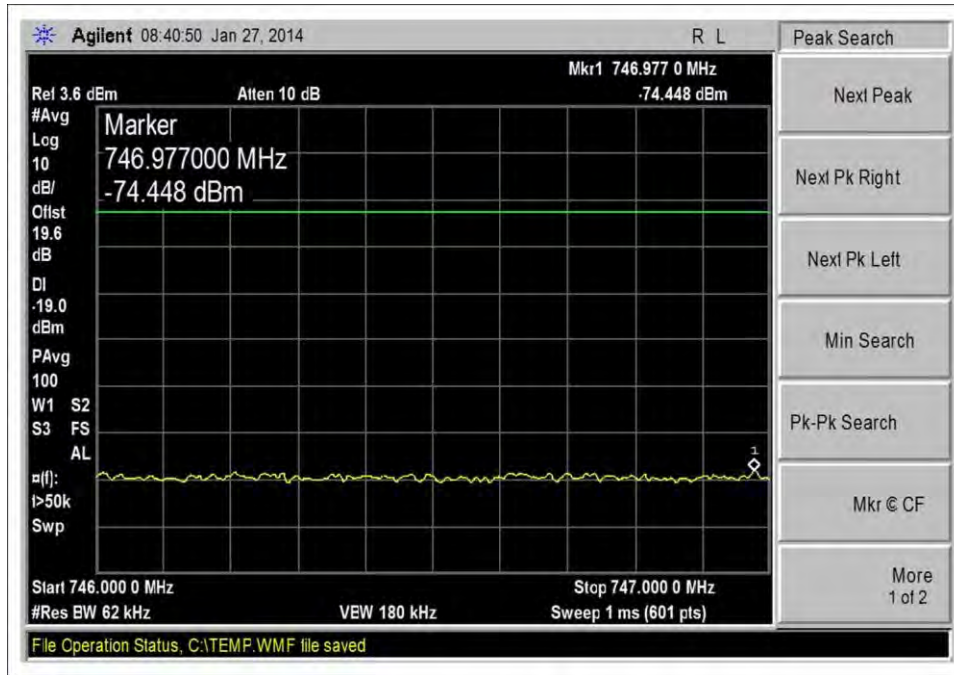
DL_728-746MHz_Low CH_LTE_-20dbm_100kHz band



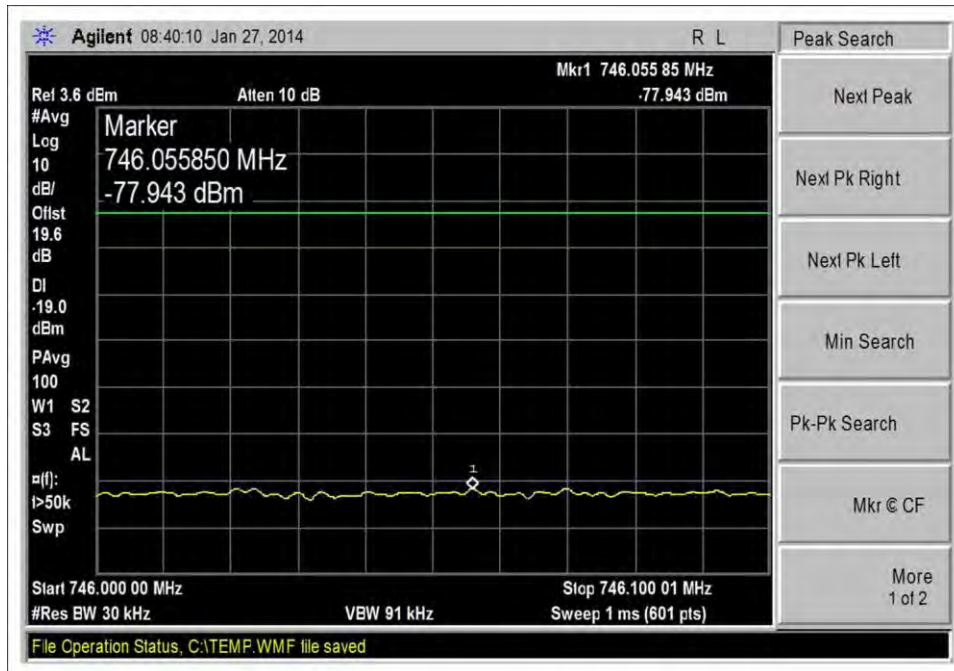
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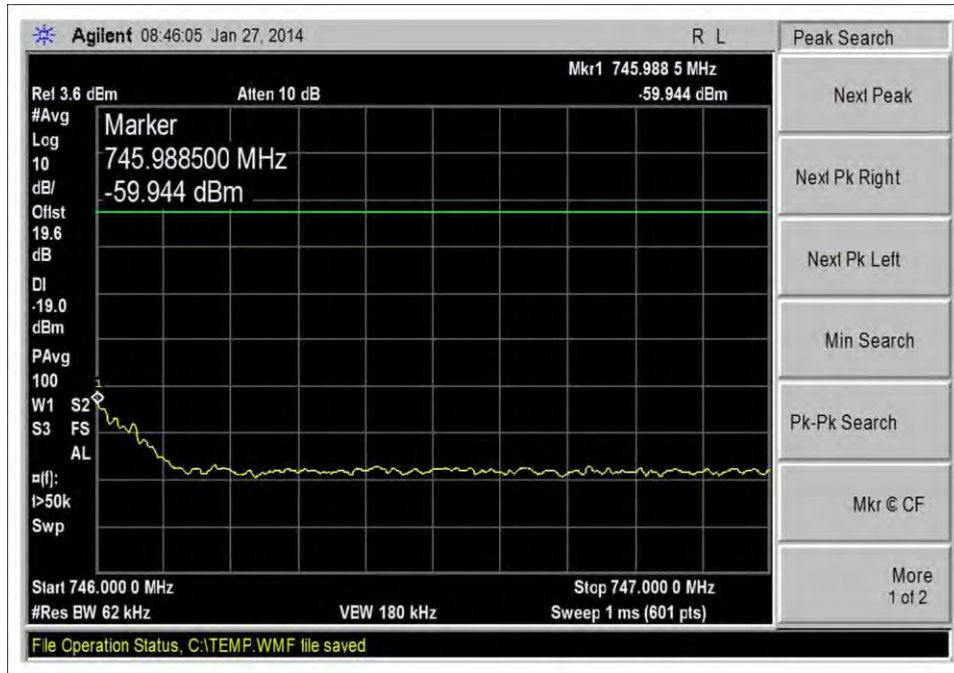
DL_728-746MHz_Low CH_LTE_pre AGC_100kHz band



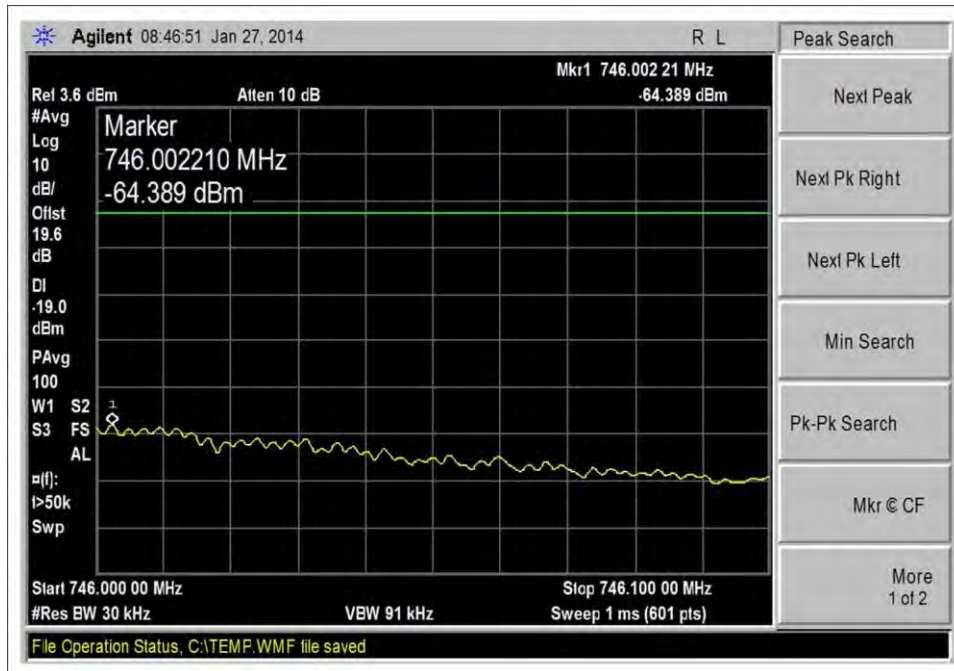
DL_728-746MHz_Hi CH_LTE_-20dbm



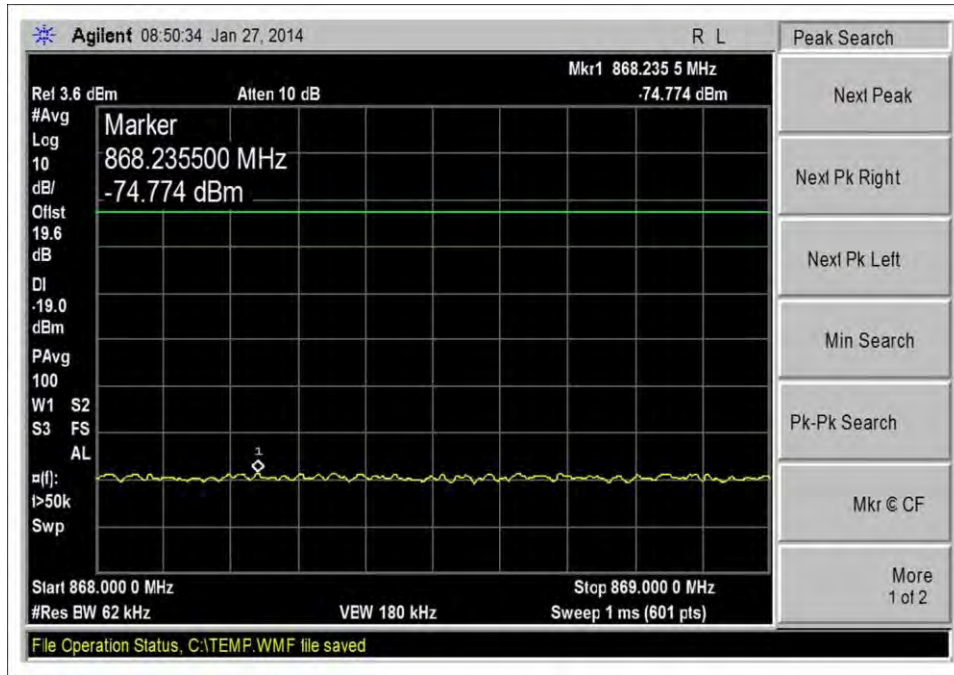
DL_728-746MHz_Hi CH_LTE_-20dbm_100kHz band



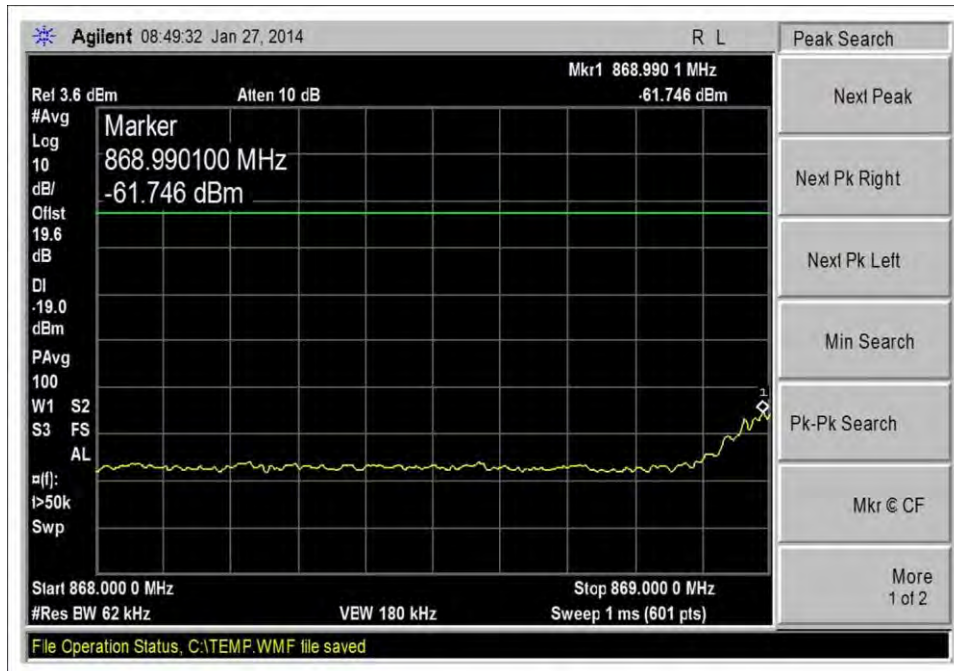
DL_728-746MHz_Hi CH_LTE_pre AGC



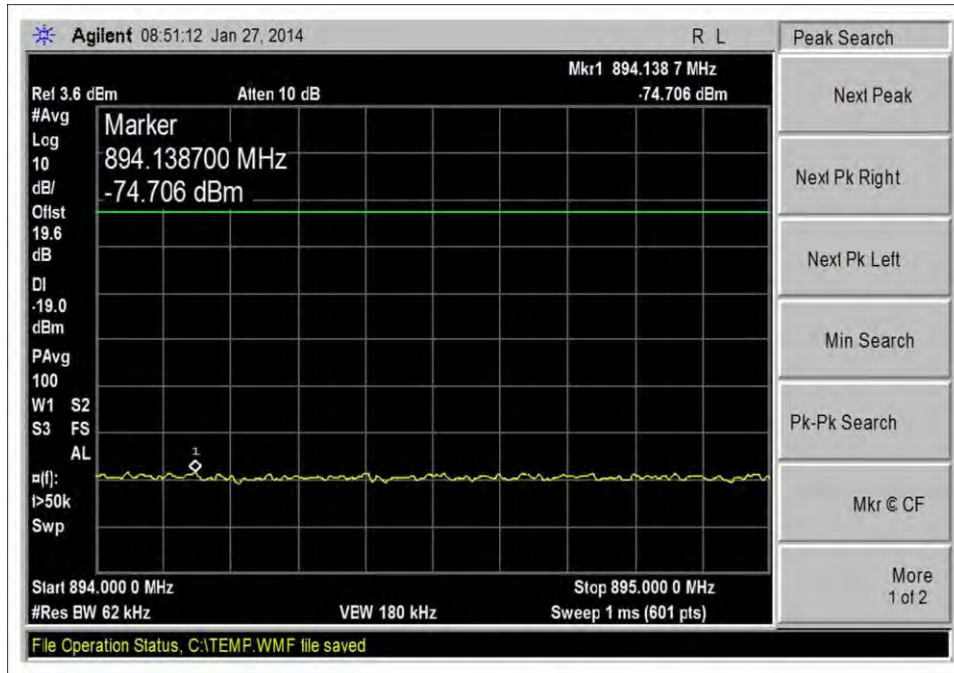
DL_728-746MHz_Hi CH_LTE_pre AGC_100kHz band



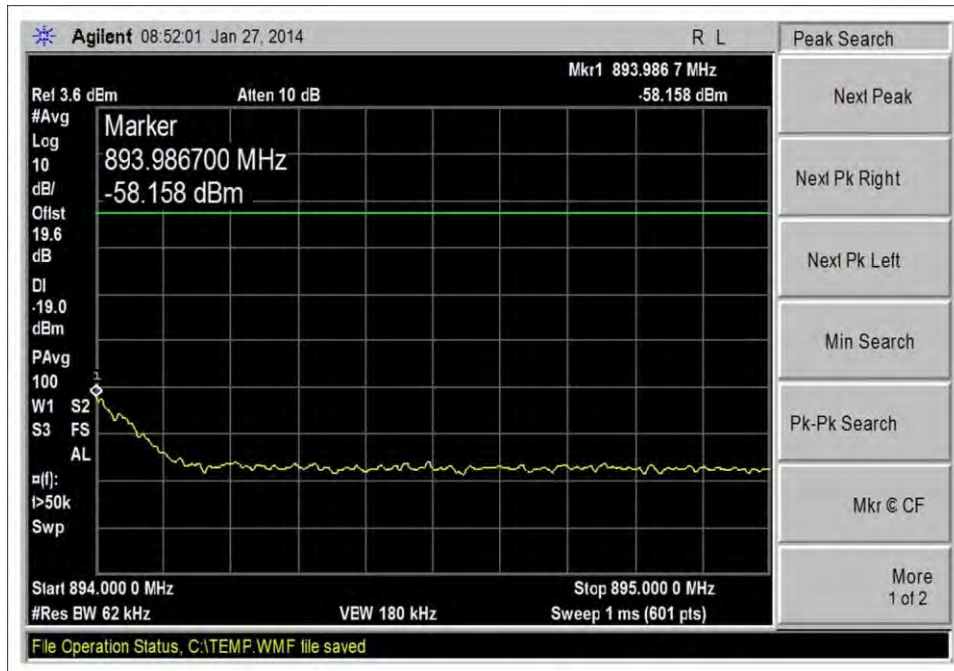
DL_869-894MHz_Low CH_LTE_-20dbm



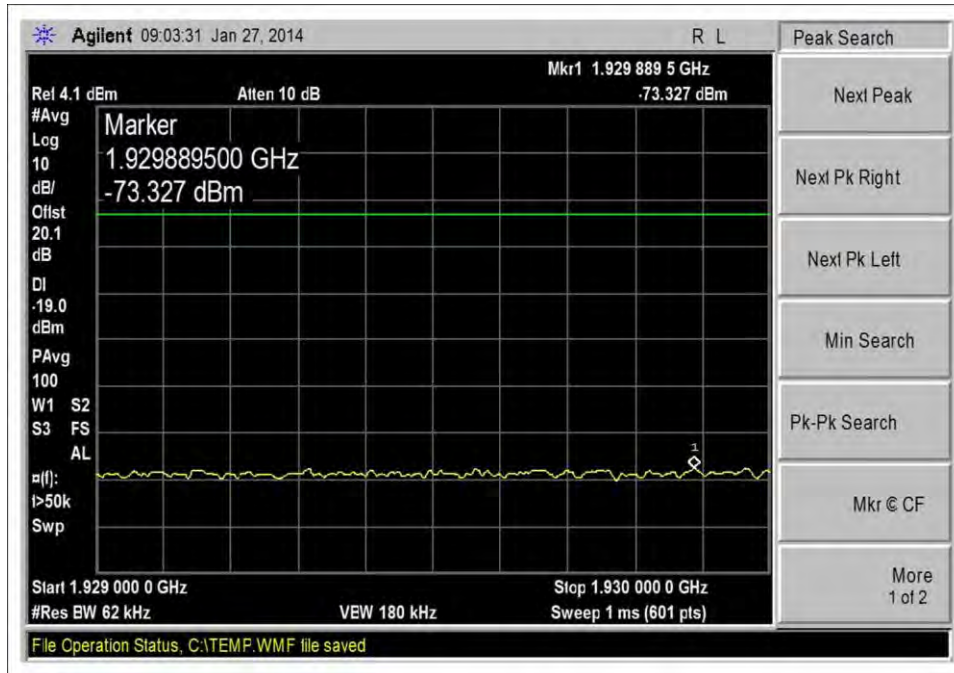
DL_869-894MHz_Low CH_LTE_pre AGC



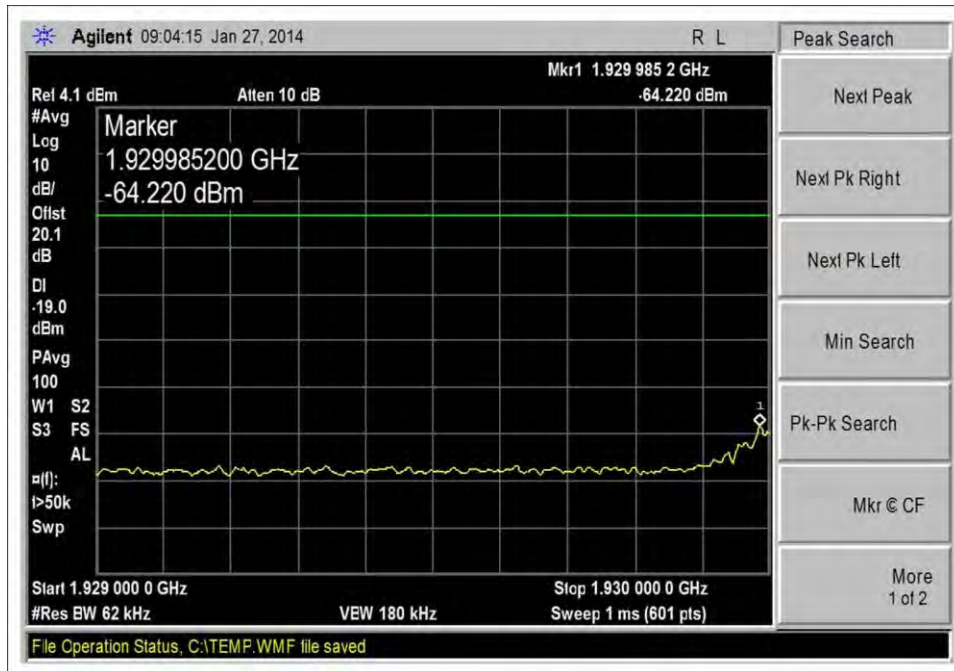
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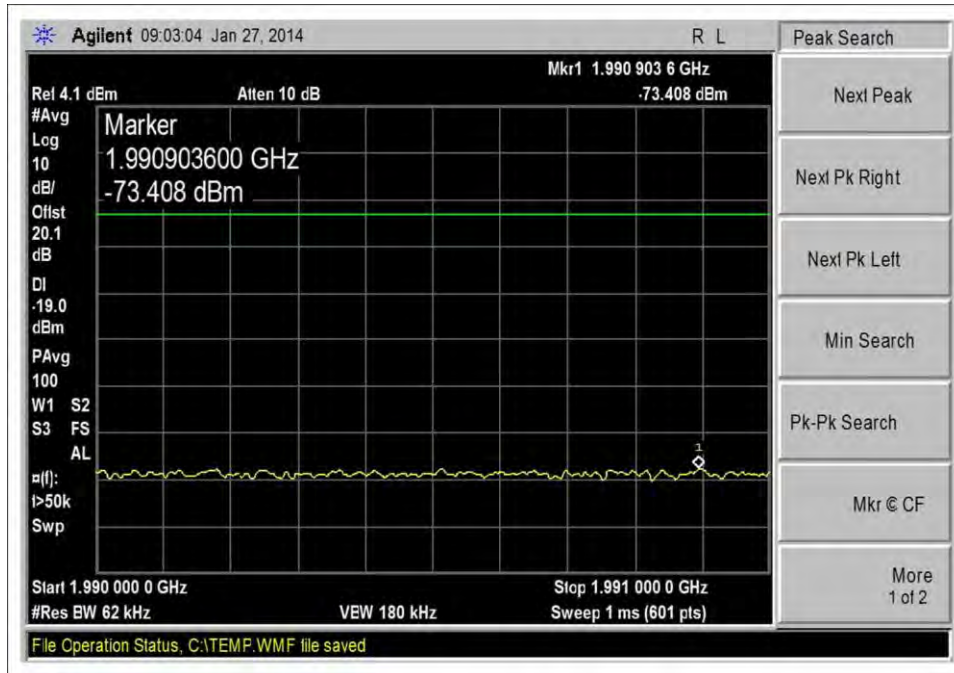
DL_869-894MHz_Hi CH_LTE_pre AGC



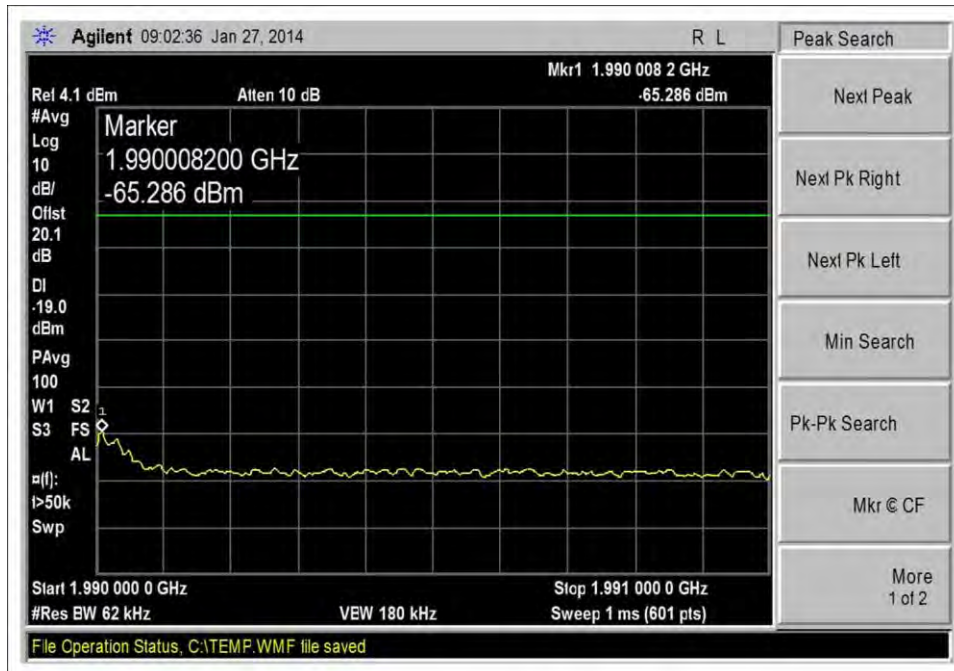
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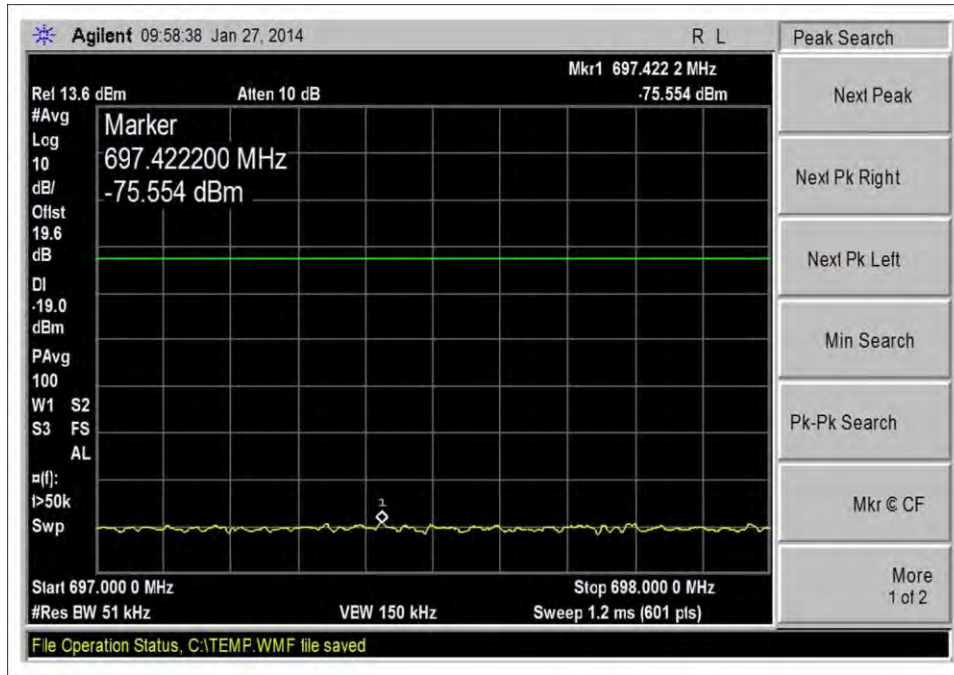
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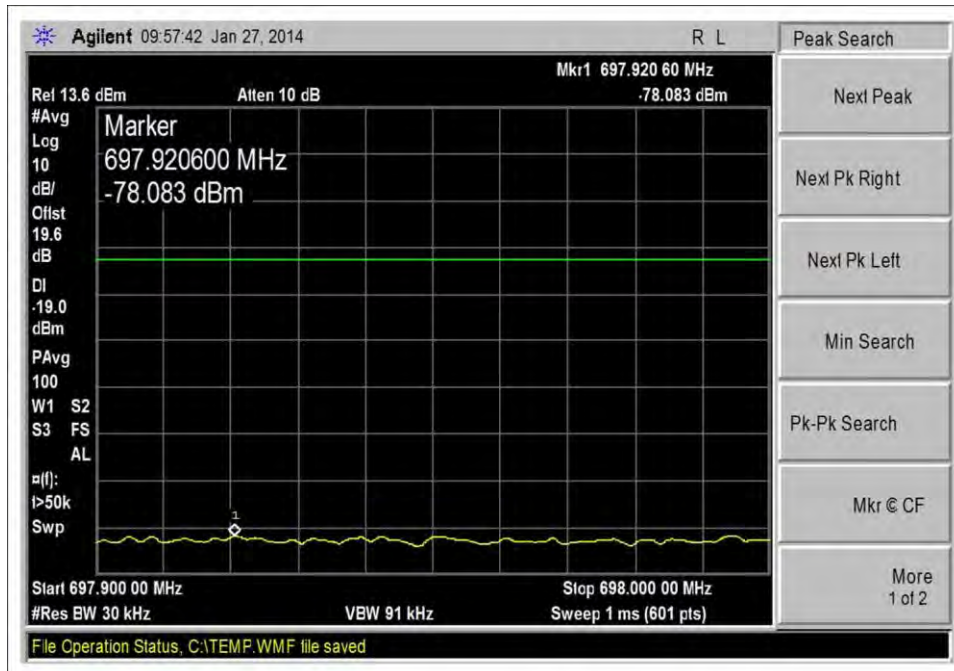
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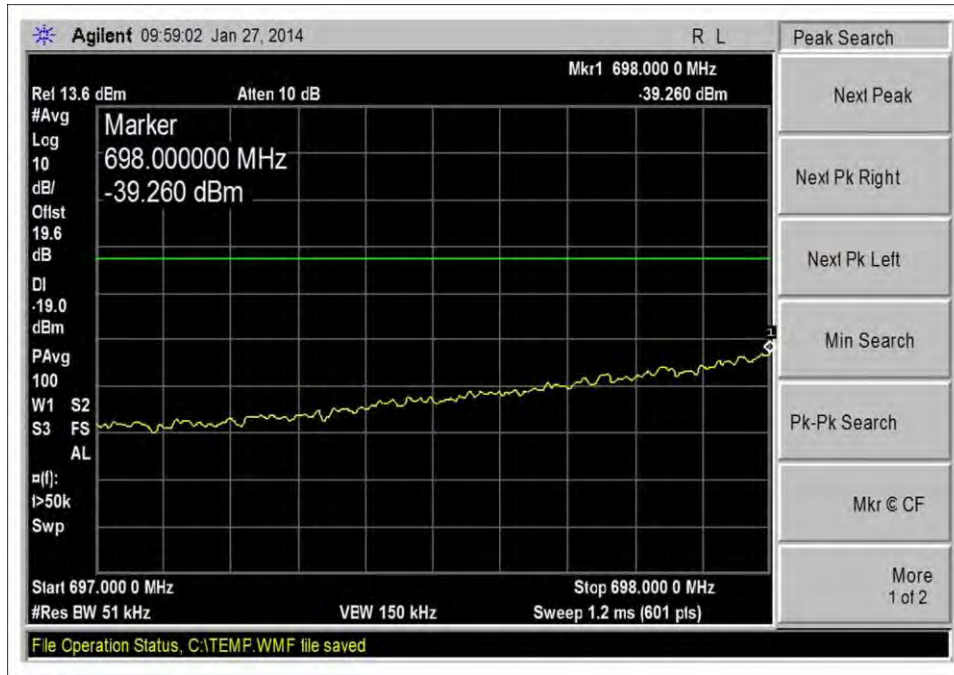
DL_1930-1990MHz_Hi CH_LTE_pre AGC



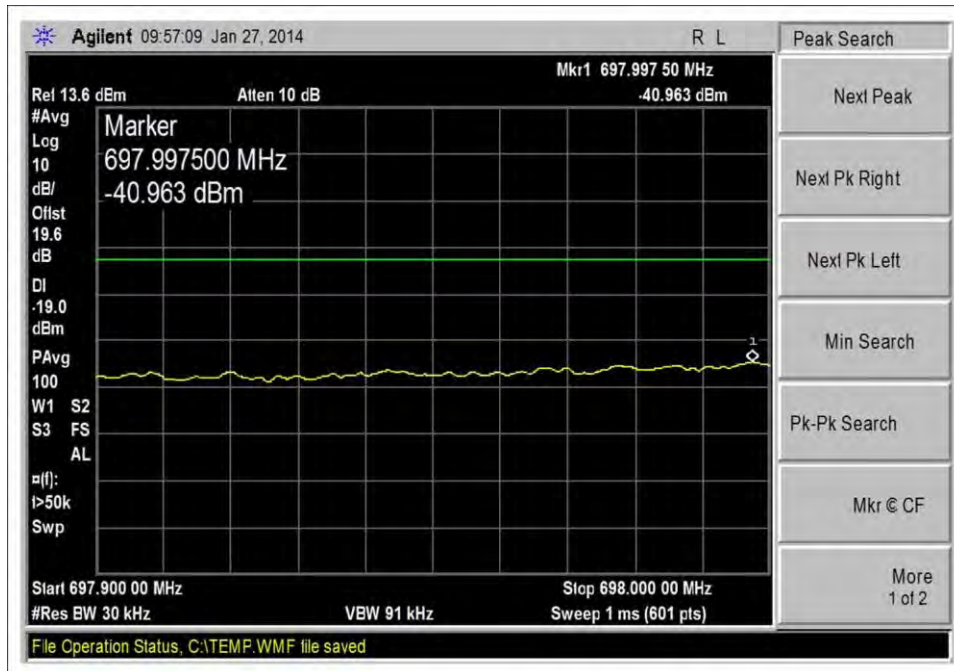
UL_698-716MHz_Low CH_CDMA_10dbm



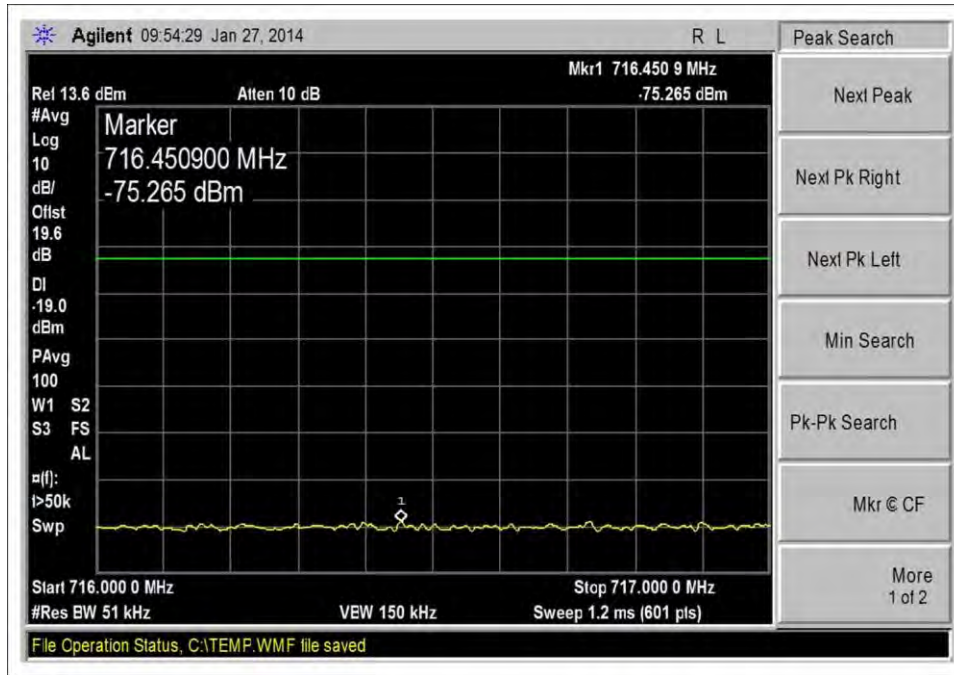
UL_698-716MHz_Low CH_CDMA_10dbm_100kHz band



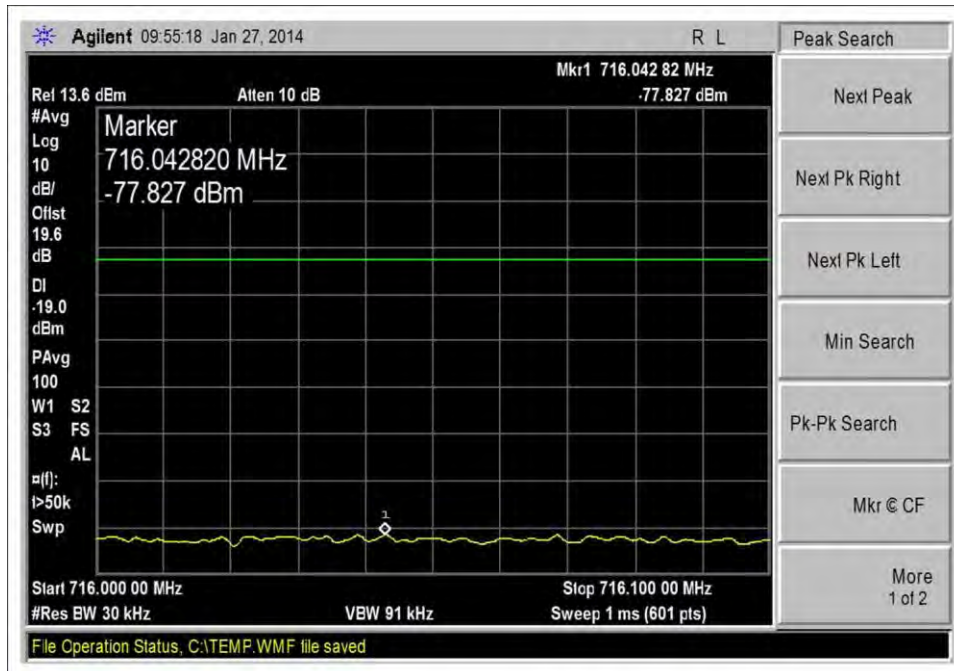
UL_698-716MHz_Low CH_CDMA_pre AGC



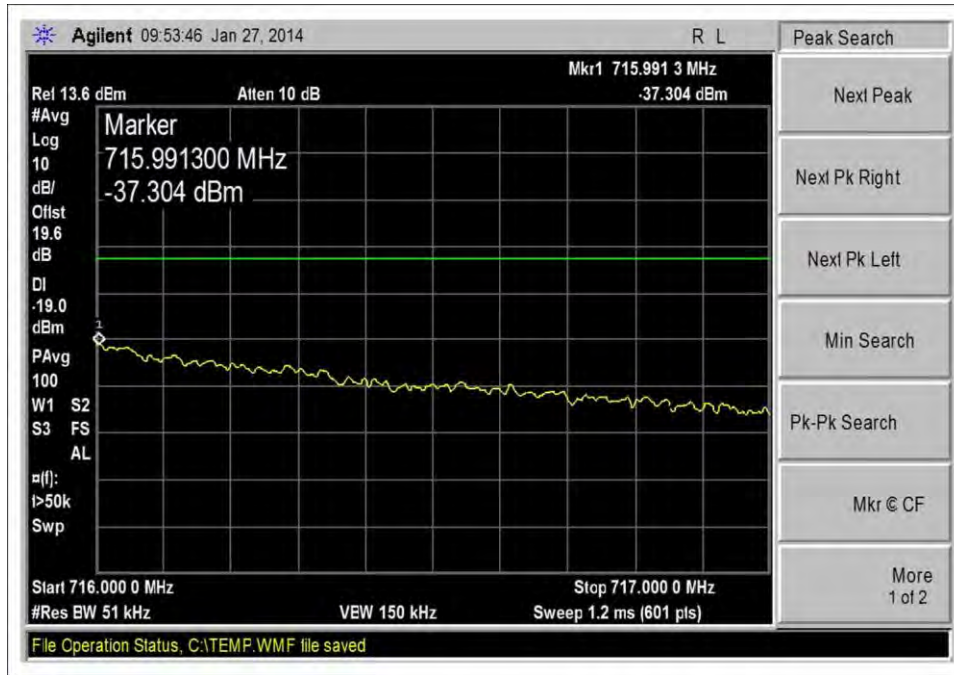
UL_698-716MHz_Low CH_CDMA_pre AGC_100kHz band



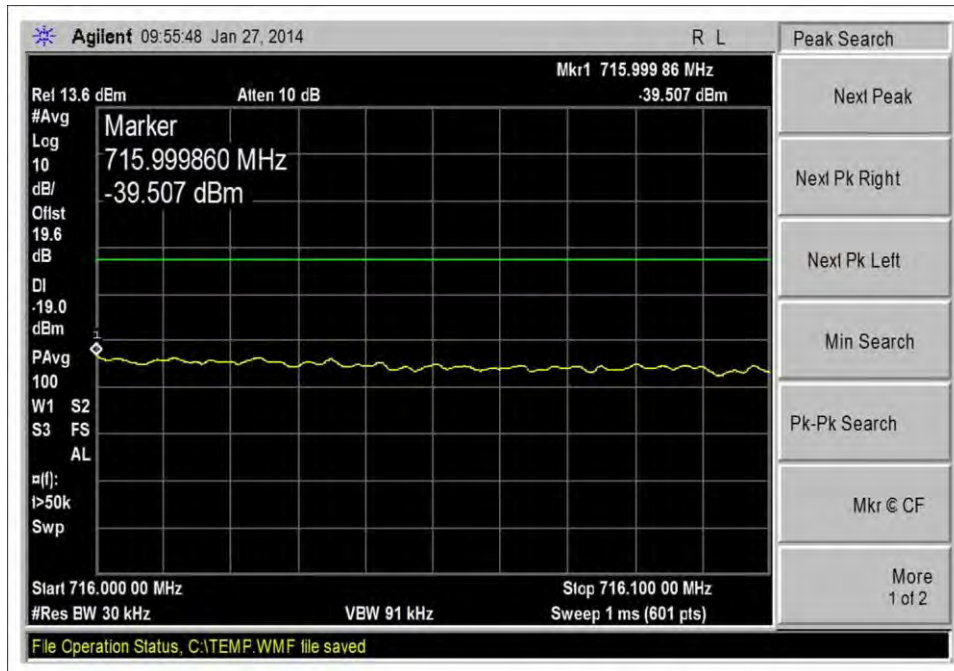
UL_698-716MHz_Hi CH_CDMA_10dbm



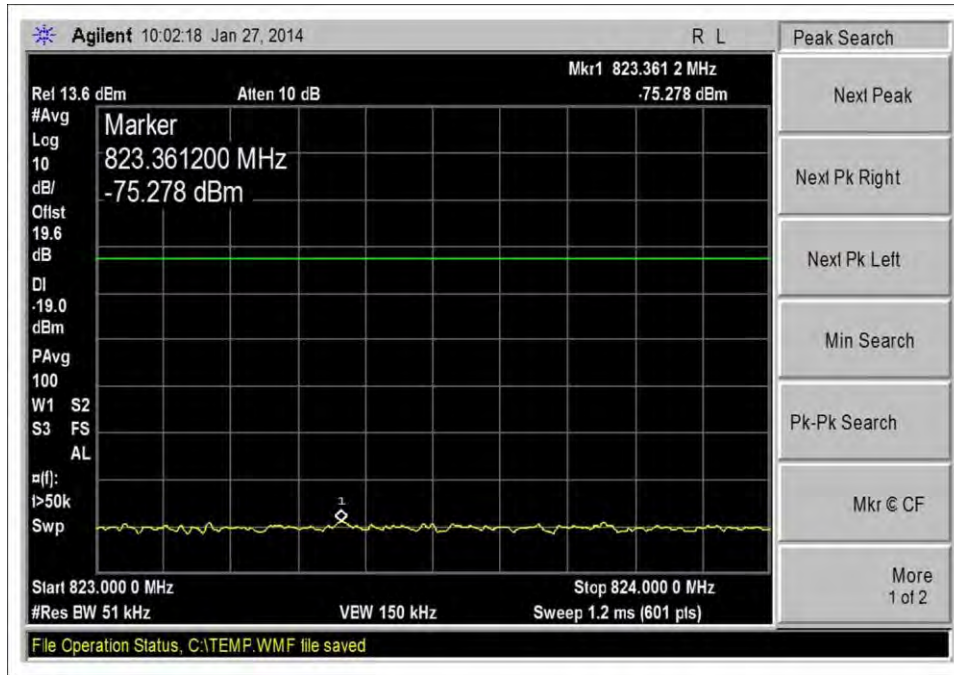
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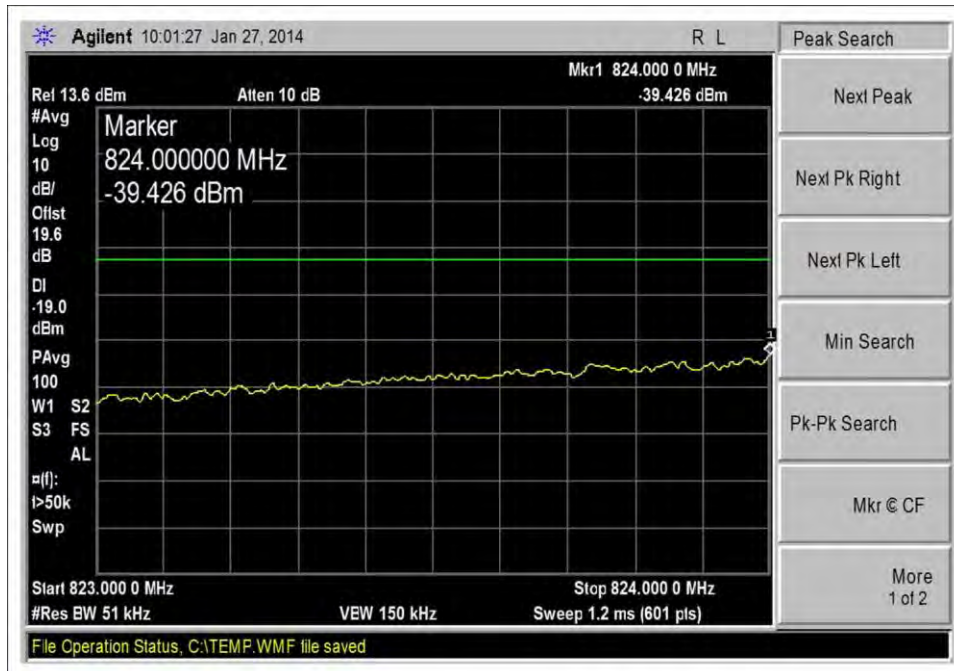
UL_698-716MHz_Hi CH_CDMA_pre AGC



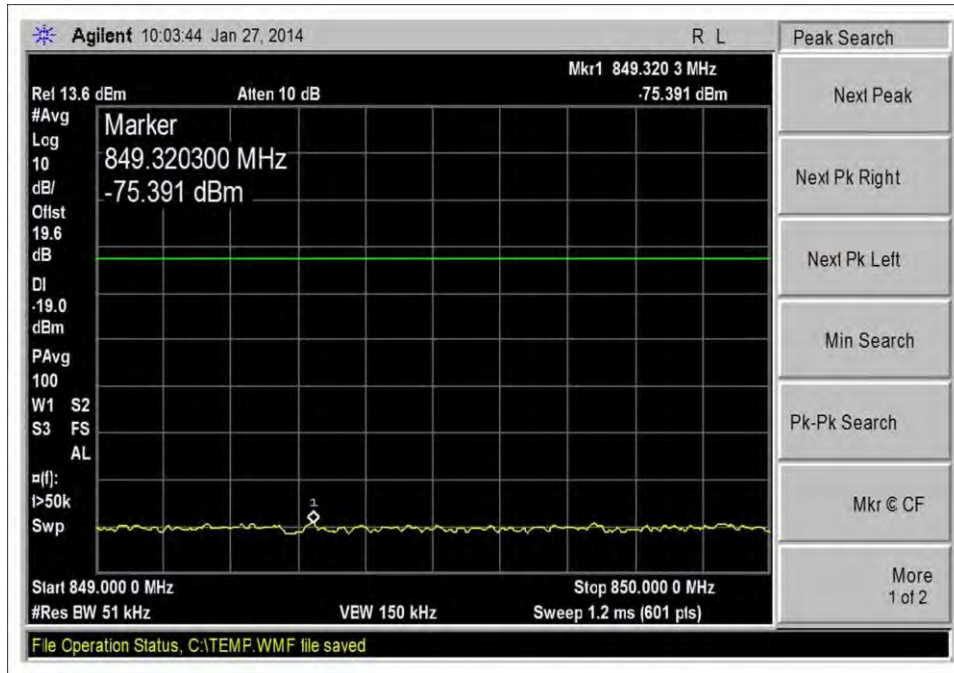
UL_698-716MHz_Hi CH_CDMA_pre AGC_100kHz band



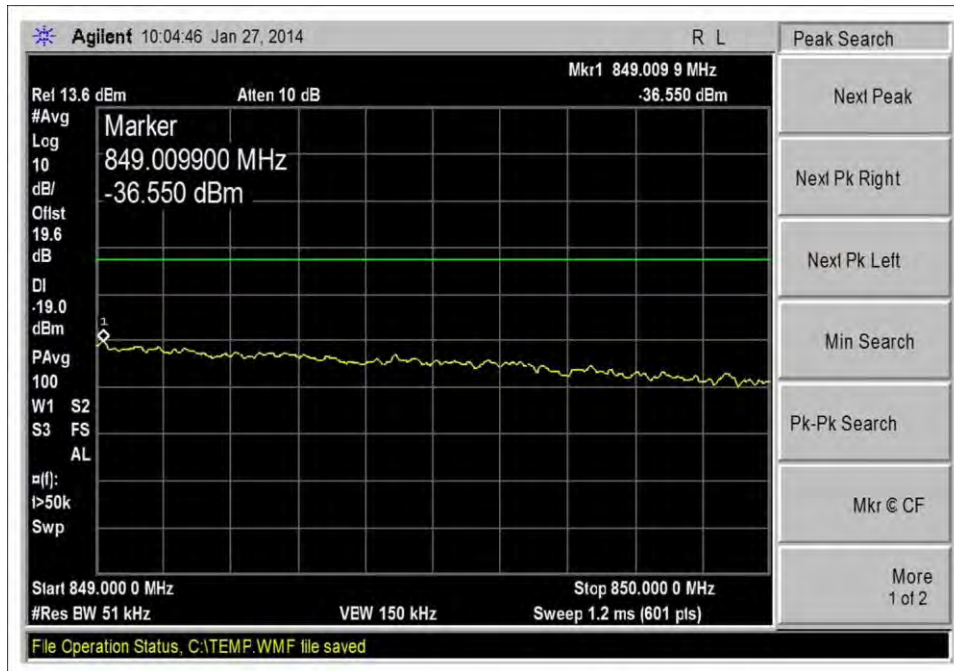
UL_824-849MHz_Low CH_CDMA_10dbm



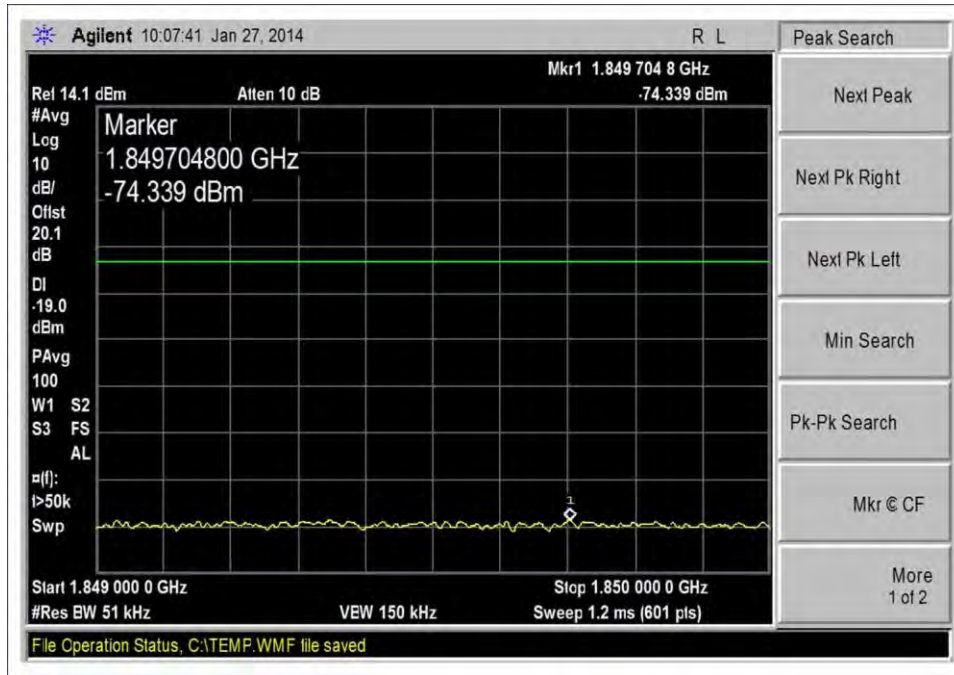
UL_824-849MHz_Low CH_CDMA_pre AGC



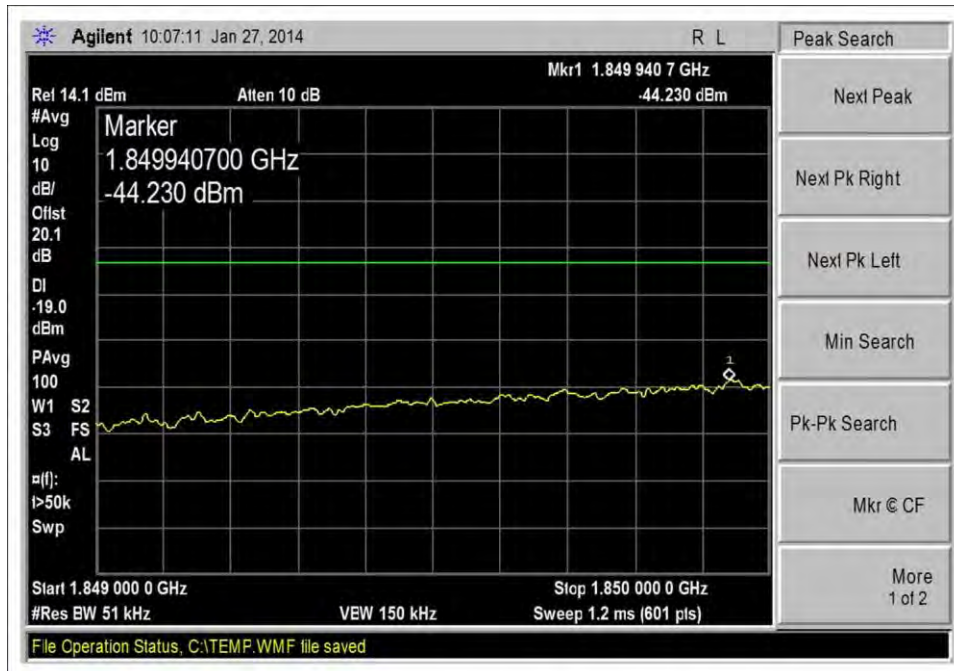
UL_824-849MHz_Hi CH_CDMA_10dbm



UL_824-849MHz_Hi CH_CDMA_pre AGC



UL_1850-1910MHz_Low CH_CDMA_10dbm



UL_1850-1910MHz_Low CH_CDMA_pre AGC