



FCC RF Test Report

Product Type : WCDMA Mobile Phone
Applicant : Sky Phone LLC
Address : 1348 Washington Av., Miami Beach
Trade Name : SKY DEVICE
Model Number : SKY 5.0Q
Test Specification : FCC 47 CFR PART 15 SUBPART C: Oct., 2013
Receive Date : 20 June, 2014
Test Period : 23 June, 2014 to 23 July, 2014
Issue Date : 14, Aug 2014

Issue by

A Test Lab Techno Corp.
No. 140-1, Changan Street, Bade City,
Taoyuan County 334, Taiwan R.O.C.
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Taiwan Accreditation Foundation accreditation number: 1330

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Revision History

Rev.	Issue Date	Revisions	Revised By
00	31, July 2014	Initial Issue	
01	14, Aug 2014	Test report number corrected	

Verification of Compliance

Issued Date: 07/31/2014

Product Type : WCDMA Mobile Phone
Applicant : Sky Phone LLC
Address : 1348 Washington Av., Miami Beach
Trade Name : SKY DEVICE
Model Number : SKY 5.0Q
FCC ID : 2ABOSGC140603
EUT Rated Voltage : AC 120V; DC 3.7V battery, DC 5.0V USB charge;
Test Voltage : AC 120V; DC 3.7V;
Applicable Standard : FCC 47 CFR PART 15 SUBPART C: Oct., 2013
Test Result : Complied
Performing Lab. : A Test Lab Techno Corp.

No. 140-1, Changan Street, Bade City,
Taoyuan County 334, Taiwan R.O.C.

Tel : +886-3-2710188 / Fax : +886-3-2710190

Taiwan Accreditation Foundation accreditation number: 1330

<http://www.atl-lab.com.tw/e-index.htm>



The above equipment was tested by A Test Lab Techno Corp. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4: 2009 and the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209, 15.247 .

The test results of this report relate only to the tested sample identified in this report.

Approved By :  Reviewed By

: 

(Manager)

(Murphy Wang)

(Testing Engineer)

(Fly Lu)



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1. General Information**1.1 Applied Standard**

Applied Rules: FCC 47 CFR PART 15 SUBPART C: Oct., 2013

Test Method: FCC PUBLIC NOTICE DA 00-705
Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems (Released March 30, 2000)

ANSI C63.4-2003/-2009, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz.

ANSI C63.10-2009, American National Standard for Testing Unlicensed Wireless Devices.

1.2 Test Location

Test Location 1: A Test Lab Techno Corp.

Address: No. 140-1, Changan Street, Bade City, Taoyuan County 334, Taiwan
R.O.C.

1.3 Test Environment Condition

Ambient Temperature: 19.5 to 25°C

Ambient Relative Humidity: 45 to 55%

Atmospheric Pressure: Not applicable

2. Test Summary

Test Item	FCC Part No.	Requirements	TestResult	Verdict (NOTE)
20dB Emission Bandwidth (EBW)	15.247(a)(1)	No limit.	Appendix A	Pass
Carrier Frequency Separation	15.247(a)(1)	$\geq \text{MAX}\{25\text{kHz}, \text{IF}\{\text{output power} \leq 125\text{mW}, 2/3 * 20\text{dB EBW}, 20\text{dB EBW}\}\}$.	Appendix B	Pass
Number of Hopping Channel	15.247(a)(1)(iii)	≥ 15 channels.	Appendix C	Pass
Time of Occupancy (Dwell Time)	15.247(a)(1)(iii)	$< 0.4\text{s}$ within a period of $(0.4\text{s} * \text{hopping number})$.	Appendix D	Pass
Maximum Peak Conducted Output Power	15.247(b)(1)	$< 1\text{W}$ if using ≥ 75 non-overlapping channels.	Appendix E	Pass
Band edge spurious emission	15.247(d)	$< -20 \text{ dBc}/100\text{kHz}$ if total peak power \leq power limit.	Appendix F	Pass
Conducted RF Spurious Emission	15.247(d)	$< -20 \text{ dBc}/100\text{kHz}$ if total peak power \leq power limit.	Appendix G	Pass
Radiated Emissions in the Restricted Bands	15.247(d) 15.209	FCC Part 15.209 field strength limit;	Appendix H	Pass
AC Power Line Conducted Emissions	15.207	FCC Part 15.207 conducted limit;	Appendix I	Pass



3. Description of the Equipment under Test (EUT)

3.1 General Description

Product	WCDMA Mobile Phone
Trade Name	SKY DEVICE
Model Number	SKY 5.0Q
Applicant	Sky Phone LLC 1348 Washington Av., Miami Beach
Manufacturer	Shenzhen Malata Mobile Communication CO.,LTD 25/F,Malata Technology Building,NO9998 ShennanRd,Hi-techPark,Nanshan,Shenzhen,P.R. China 518057.
FCC ID	2ABOSGC140603
Frequency Range	2402 ~ 2480 MHz
Modulation Type	GFSK for 1Mbps
	$\pi/4$ -DQPSK for 2Mbps
	8DPSK for 3Mbps
Antenna Type	Internal
Antenna Gain	0dBi
RF Output Power (Conducted)	GFSK for 1Mbps : 2.36 dBm / 1.72 mW $\pi/4$ -DQPSKfor 2Mbps : 1.61 dBm / 1.45 mW 8DPSK for 3Mbps : 1.58 dBm / 1.44 mW

NOTE: Only Bluetooth test data included in this report.

3.2 EUT Identity

IMEI No.	
SIM 1	868817019960176
SIM 2	868817019960034

NOTE: Unless otherwise noted in the report, the functional boards installed in the unit shall be selected from the below list, but not means all the functional boards listed below shall be installed in one unit.

4. General Test Conditions / Configurations

4.1 EUT Configurations

4.1.1 General Configurations

Configuration	Description
Test Antenna Ports	Until otherwise specified, <ul style="list-style-type: none"> - All TX tests are performed at all TX antenna ports of the EUT, and - All RX tests are performed at all RX antenna ports of the EUT.
Multiple RF Sources	Other than the tested RF source of the EUT, other RF source(s) are disabled or shutdown during measurements.

4.1.2 Customized Configurations

#EUTConf.	Signal Description	Operating Frequency
TM1_DH5_Hop	GFSK modulation, package type DH5, hopping on.	---
TM1_DH5_Ch0	GFSK modulation, package type DH5, hopping off.	Ch No. 0 / 2402MHz
TM1_DH5_Ch39	GFSK modulation, package type DH5, hopping off.	Ch No. 39 / 2441MHz
TM1_DH5_Ch78	GFSK modulation, package type DH5, hopping off.	Ch No. 78 / 2480MHz
TM2_2DH5_Hop	$\pi/4$ -DQPSK modulation, package type 2DH5, hopping on.	---
TM2_2DH5_Ch0	$\pi/4$ -DQPSK modulation, package type 2DH5, hopping off.	Ch No. 0 / 2402MHz
TM2_2DH5_Ch39	$\pi/4$ -DQPSK modulation, package type 2DH5, hopping off.	Ch No. 39 / 2441MHz
TM2_2DH5_Ch78	$\pi/4$ -DQPSK modulation, package type 2DH5, hopping off.	Ch No. 78 / 2480MHz
TM3_3DH5_Hop	8DPSK modulation, package type 3DH5, hopping on.	---
TM3_3DH5_Ch0	8DPSK modulation, package type 3DH5, hopping off.	Ch No. 0 / 2402MHz
TM3_3DH5_Ch39	8DPSK modulation, package type 3DH5, hopping off.	Ch No. 39 / 2441MHz
TM3_3DH5_Ch78	8DPSK modulation, package type 3DH5, hopping off.	Ch No. 78 / 2480MHz

4.2 Test Environments

NOTE: The values used in the test report may be stringer than the declared.

Environment Parameter	Selected Values During Tests		
	Temperature	Voltage	Relative Humidity
NTNV	Ambient	3.7VDC	Ambient

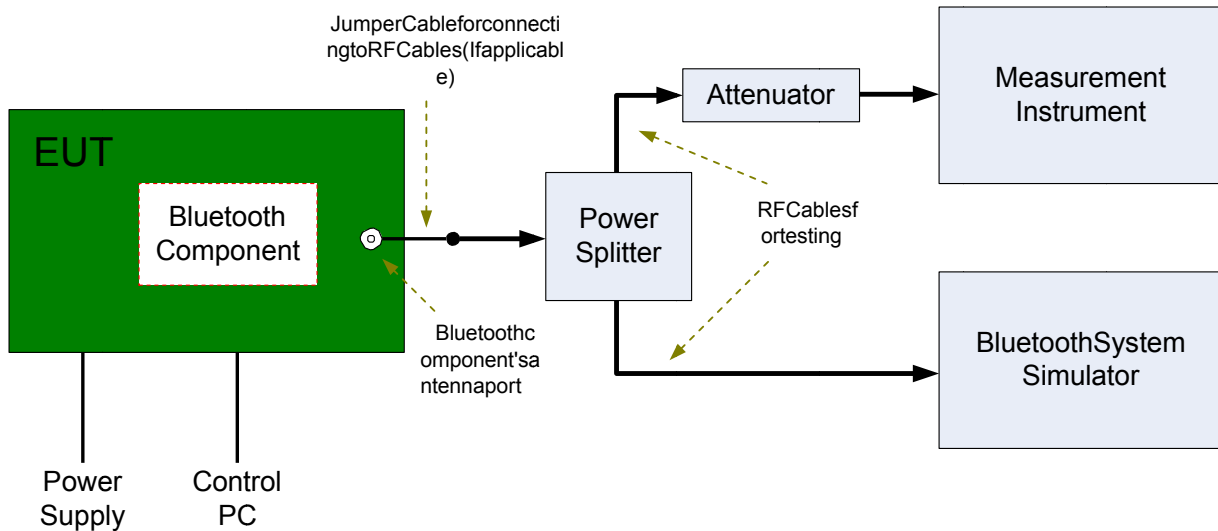
4.3 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)	
Conducted Emission	9kHz ~ 30MHz	± 2.02	
Radiated Emission	9kHz ~ 30MHz	± 3.14	
	30MHz ~ 1000MHz	Horizontal	± 3.98
		Vertical	± 3.62
	1000MHz ~ 18000MHz	Horizontal	± 3.11
		Vertical	± 3.07
	18000MHz ~ 40000MHz	Horizontal	± 3.66
Vertical		± 3.54	

4.4 Test Setups

4.3.1 Test Setup 1

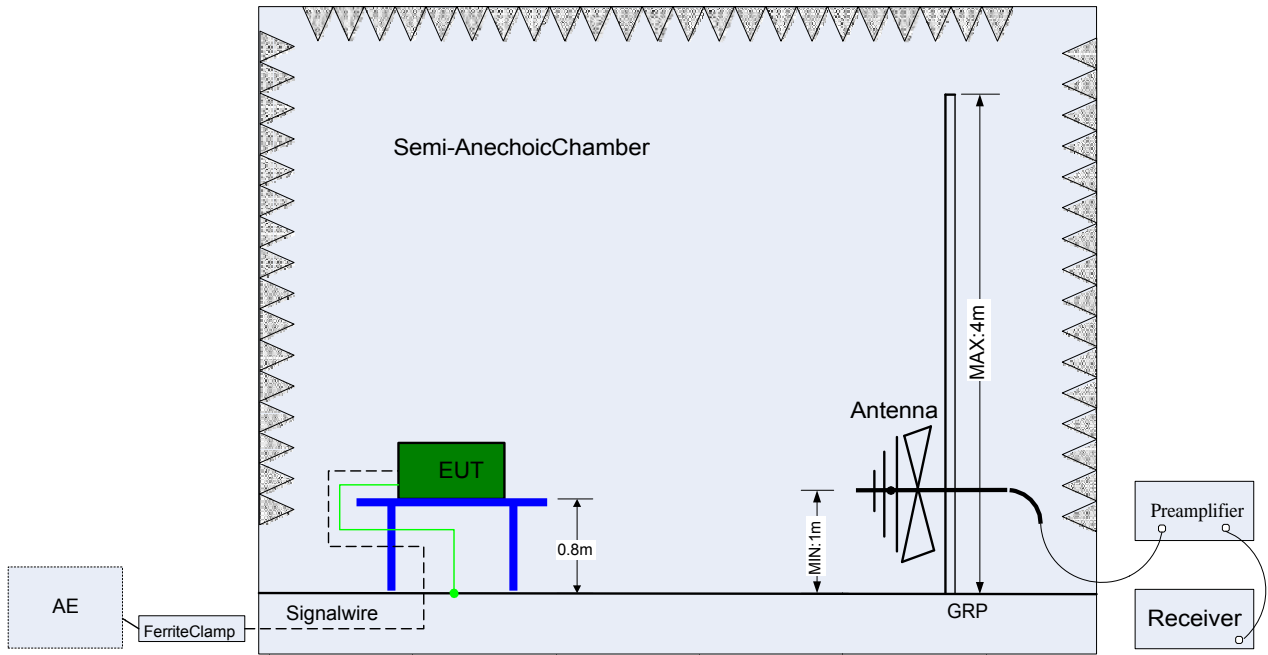
The Bluetooth component's antenna port(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by Bluetooth System Simulator and/or PC/software to emit the specified signals for the purpose of measurements.



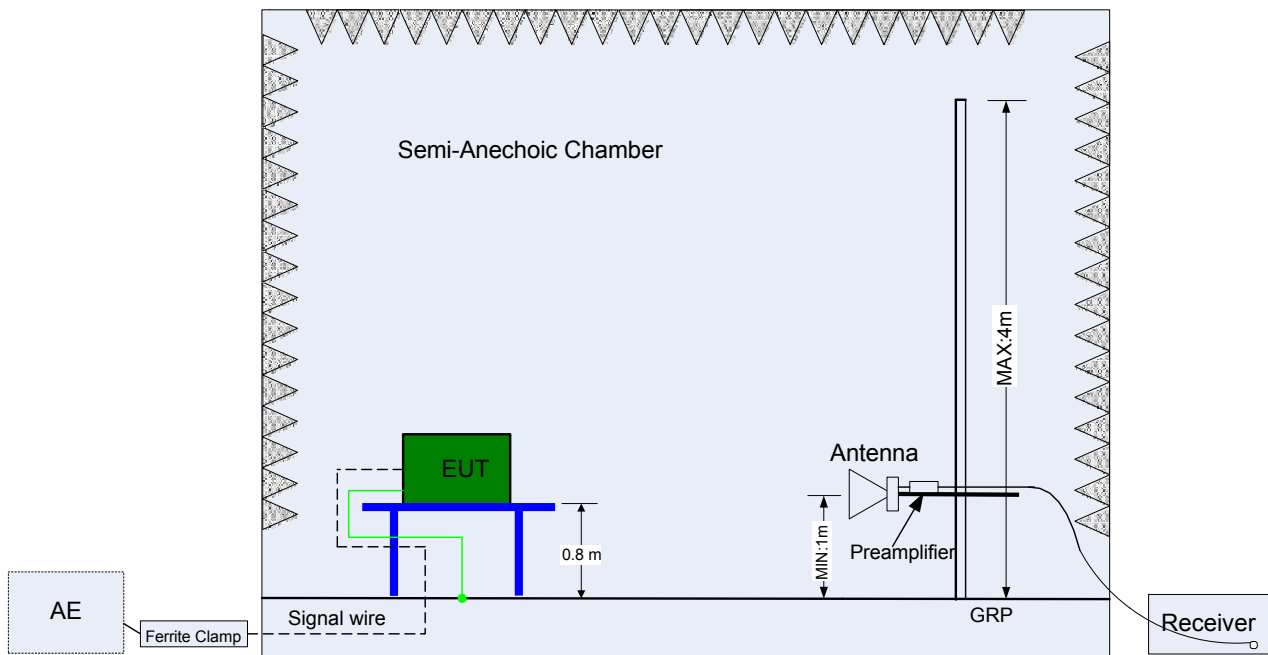
4.3.2 Test Setup 2

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSIC63.4. The test distance is 3m. The setup is according to ANSI C63.4 and CAN/CSA-CEI/IEC CISPR22.

The maximal emission values acquired by adjusting the antenna height, polarization and turntable azimuth. Normally, the height range of antenna is 1m to 4m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal(H).



(Below 1 GHz)

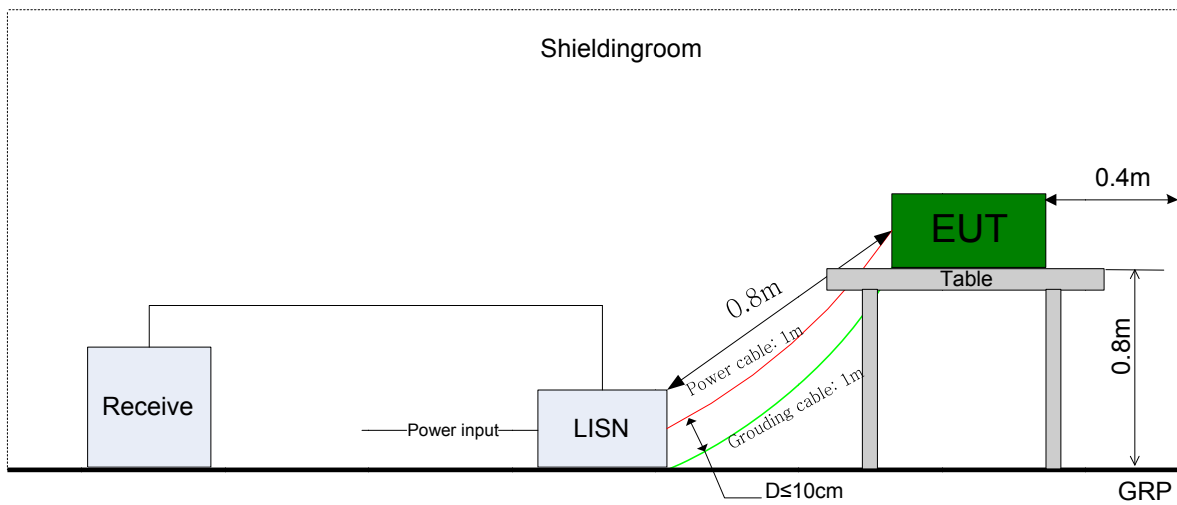


(Above 1 GHz)

4.3.3 TestSetup 3

The mains cable of the EUT (may be per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest point of the LISN and the EUT. All other units of the EUT and associated equipments shall be at least 0.8m from the LISN.

Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1m.





4.5 Test Conditions

Test Case	TestConditions	
	Configuration	Description
20dB EmissionBandwid th (EBW)	Meas.Method	DA 00-705
	TestEnv.	NTNV
	Test Setup	Test Setup1
	EUT Conf.	TM1_DH5_Ch0, TM1_DH5_Ch39, TM1_DH5_Ch78, TM2_2DH5_Ch0, TM2_2DH5_Ch39, TM2_2DH5_Ch78, TM3_3DH5_Ch0, TM3_3DH5_C h39, TM3_3DH5_Ch78, TM4_DH5_Ch0, TM4_DH5_Ch19, TM4_DH5_Ch39.
Carrier FrequencySepara tion	Meas.Method	DA 00-705
	TestEnv.	NTNV
	Test Setup	Test Setup1
	EUTConf.	TM1_DH5_Hop, TM2_2DH5_Hop , TM3_3DH5_Hop,
Numberof HoppingChannel	Meas.Method	DA 00-705
	TestEnv.	NTNV
	Test Setup	Test Setup1
	EUTConf.	TM1_DH5_Hop, TM2_2DH5_Hop , TM3_3DH5_Hop,
Time of Occupancy(DwellTim e)	Meas.Method	DA 00-705
	TestEnv.	NTNV
	Test Setup	Test Setup1
	EUTConf.	TM1_DH5_Ch39, T M2_2DH5_Ch39, TM3_3DH5_Ch39.
MaximumPeakCond uctedOutputPower	Meas.Method	DA 00-705
	TestEnv.	NTNV
	Test Setup	Test Setup1
	EUTConf.	TM1_DH5_Ch0, TM1_DH5_Ch39, TM1_DH5_Ch78, TM2_2DH5_Ch0, TM2_2DH5_Ch39, TM2_2DH5_Ch78, TM3_3DH5_Ch0, TM3_3DH5_C h39, TM3_3DH5_Ch78, TM4_DH5_Ch0, TM4_DH5_Ch19, TM4_DH5_Ch39.
Bandedgespuriose mission	Meas.Method	DA 00-705
	TestEnv.	NTNV
	Test Setup	Test Setup1
	EUTConf.	TM1_DH5_Ch0, TM1_DH5_Ch78, TM 2_2DH5_Ch0, TM2_2DH5_Ch78, TM3_3DH5_Ch0, TM3_3DH5_Ch78.

Test Case	TestConditions		
	Configuration	Description	
		TM4_DH5_Ch0, TM4_DH5_Ch39.	
Conducted RFSpuriousEmission	Meas.Method	DA 00-705	
	TestEnv.	NTNV	
	Test Setup	Test Setup1	
	EUTConf.	TM1_DH5_Ch0, TM1_DH5_Ch39, TM1_DH5_Ch78, TM2_2DH5_Ch0, TM2_2DH5_Ch39, TM2_2DH5_Ch78, TM3_3DH5_Ch0, TM3_3DH5_Ch39, TM3_3DH5_Ch78. TM4_DH5_Ch0, TM4_DH5_Ch19, TM4_DH5_Ch39.	
RadiatedEmissions in theRestrictedBands	Meas.Method	DA 00-705, C63.4, C63.10. (1) 30 MHz to 1 GHz: Pre: RBW=100kHz; VBW=300kHz; Det. = Peak.Final: RBW=120kHz; Det. = CISPR Quasi-Peak. (2) 1 GHz to 26.5GHz: Average: RBW=1 MHz; VBW= 10Hz; Det. = Peak; Sweep-time= Auto; Trace = Single. Peak: RBW=1 MHz; VBW= 3 MHz; Det. = Peak; Sweep-time= Auto; Trace ≥ MaxHold * 100.	
	TestEnv.	NTNV	
	Test Setup	Test Setup2	
	EUTConf.	30 MHz-1GHz	TM1_DH5_Ch0 (Worst Conf.).
		1-3 GHz	TM1_DH5_Ch0, TM1_DH5_Ch39, TM1_DH5_Ch78, TM2_2DH5_Ch0, TM2_2DH5_Ch39, TM2_2DH5_Ch78, TM3_3DH5_Ch0, TM3_3DH5_Ch39, TM3_3DH5_Ch78. TM4_DH5_Ch0, TM4_DH5_Ch19, TM4_DH5_Ch39.
		3-18GHz	TM1_DH5_Ch0 (WorseConf.), TM1_DH5_Ch39 (WorseConf.), TM1_DH5_Ch78 (WorseConf.).
		18-26.5GHz	TM1_DH5_Ch0 (Worst Conf.).
AC Power LineConductedEmissions	Meas.Method	AC mains conducted. Pre: RBW=10kHz; Det. = Peak. Final: RBW=9 kHz; Det. = CISPR Quasi-Peak & Average.	
	TestEnv.	NTNV	
	Test Setup	Test Setup3	
	EUTConf.	TM1_DH5_Ch39.	

Note: For Radiated Emissions, By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "Z axis" position was the worst, then the final test was executed the worst condition and test data were recorded in this report.

5 Main Test Instruments

Equipment Name	Manufacturer	Model	Serial Number	Cal. Date	Cal. Period
MXA Signal Analyzer	Agilent	N9020A	MY53420615	2014.05.12	1 year
Power Sensor	Agilent	U2021XA	MY53180015	2013.09.27	1 year
Power Sensor	Agilent	U2021XA	MY53260040	2013.09.27	1 year
Power Sensor	Agilent	U2021XA	MY53360002	2013.09.27	1 year
Power Sensor	Agilent	U2021XA	MY53360006	2013.09.27	1 year
USB Modular Simultaneous Data Acquisition	Agilent	U2531A	TW53353509	N.C.R	1 year
USB Modular Simultaneous Data Acquisition	Agilent	U2531A	TW53353511	N.C.R	1 year
Test Receiver	R&S	ESCI	100367	2014.06.18	1 year
LISN	R&S	ENV216	101040	2014.03.07	1 year
LISN	R&S	ENV216	101041	2014.03.07	1 year
RF Pre-selector	Agilent	N9039A	MY46520256	2014.01.21	1 year
Spectrum Analyzer	Agilent	E4446A	MY46180578	2014.01.21	1 year
Pre Amplifier	Agilent	8449B	3008A02237	2014.01.21	1 year
Pre Amplifier	Agilent	8447D	2944A10961	2014.01.21	1 year
Broadband Antenna (30MHz~1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	2014.07.01	1 year
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	2014.06.10	1 year
Horn Antenna (18~40GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	2014.06.13	1 year
Loop Antenna	COM-POWER CORPORATION	AL-130	121014	2013.08.14	1 year

END

Appendix A: 20dB Emission Bandwidth (EBW)

1. Result Table

EUT Conf.	EBW [MHz]	OBW [MHz]	Verdict
TM1-DH5-Ch0	0.8258	0.83756	PASS
TM1-DH5-Ch39	0.8171	0.81779	PASS
TM1-DH5-Ch78	0.8029	0.82040	PASS
TM2-2DH5-Ch0	1.1262	1.08107	PASS
TM2-2DH5-Ch39	1.1318	1.07784	PASS
TM2-2DH5-Ch78	1.1366	1.07510	PASS
TM3-3DH5-Ch0	1.1406	1.08166	PASS
TM3-3DH5-Ch39	1.1395	1.08092	PASS
TM3-3DH5-Ch78	1.1327	1.07748	PASS

2. Test Plot

2.1. TM1-DH5-Ch0





2.2. TM1-DH5-Ch39



2.3. TM1-DH5-Ch78

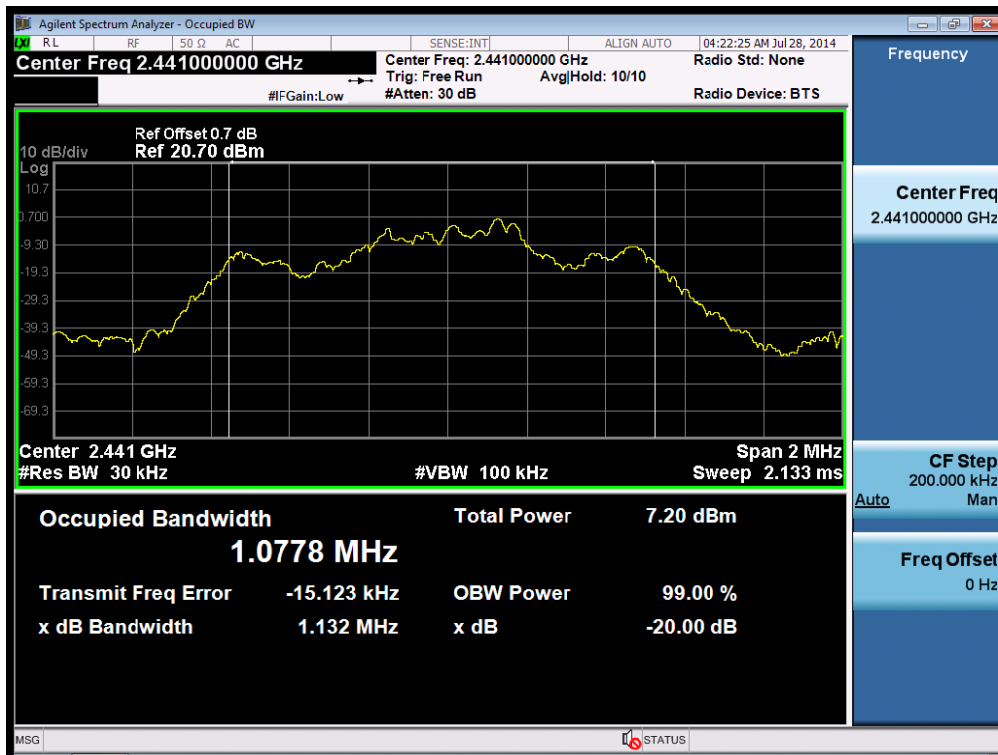




2.4. TM2-2DH5-Ch0



2.5. TM2-2DH5-Ch39





2.6. TM2-2DH5-Ch78



2.7. TM3-3DH5-Ch0





2.8. TM3-3DH5-Ch39



2.9. TM3-3DH5-Ch78



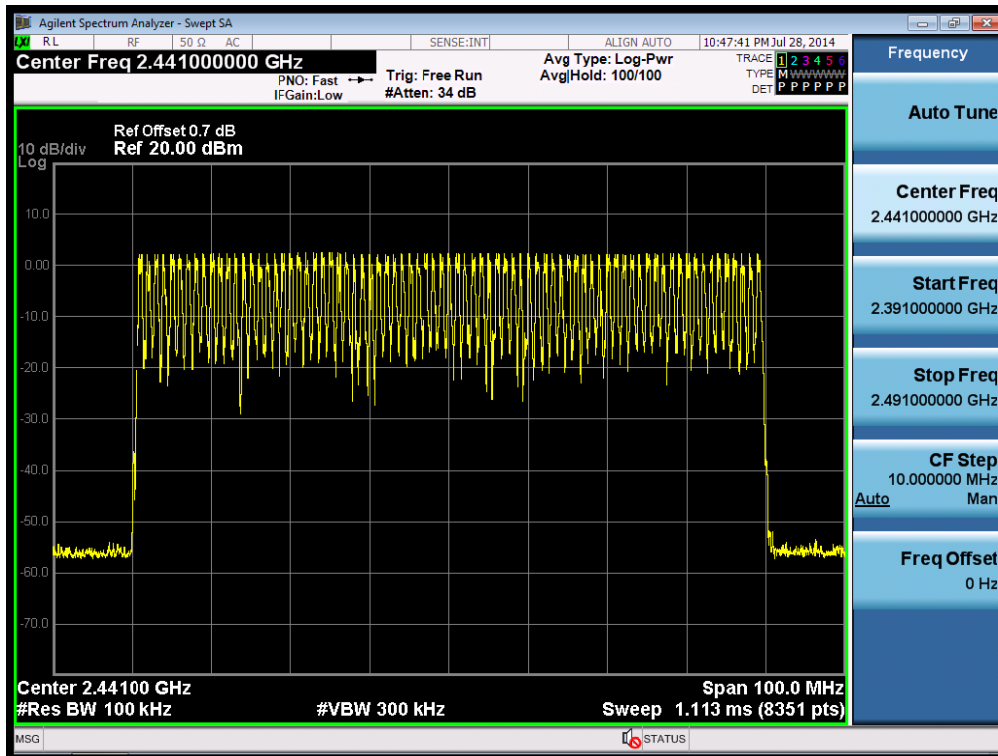
Appendix C: Number of Hopping Channel

1. Result Table

EUT Conf.	Number of Hopping Channel	Verdict
TM1-DH5-MCH-Hop	79	PASS
TM2-2DH5-MCH-Hop	79	PASS
TM3-3DH5-MCH-Hop	79	PASS

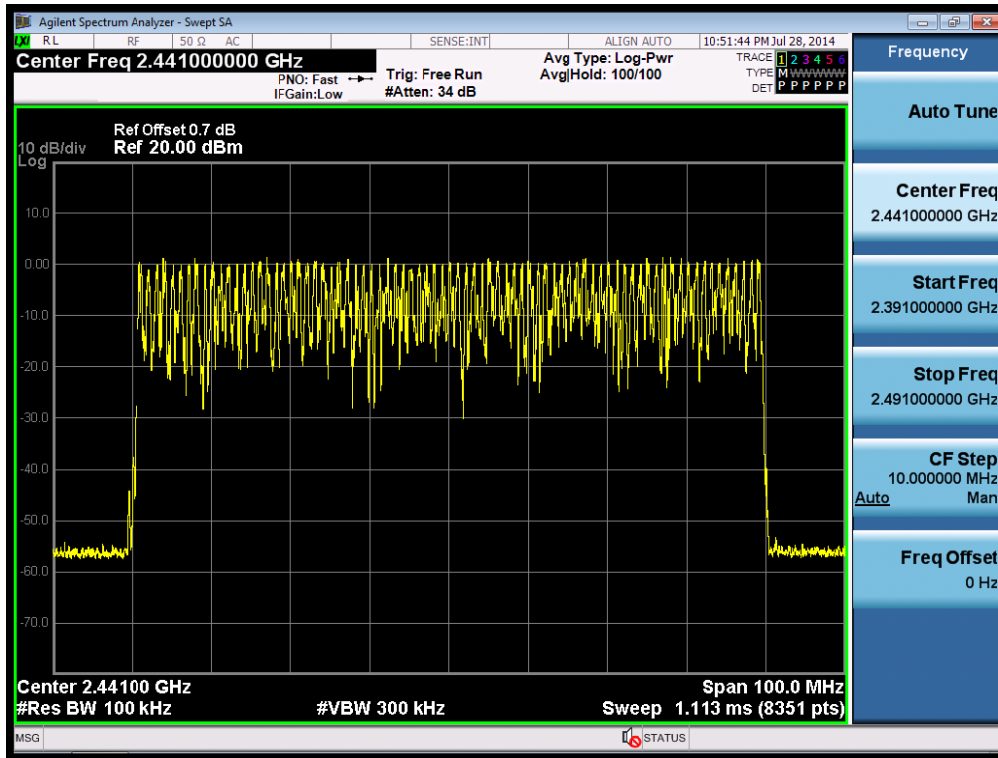
2. Test Plot

2.1. TM1-DH5-Hop

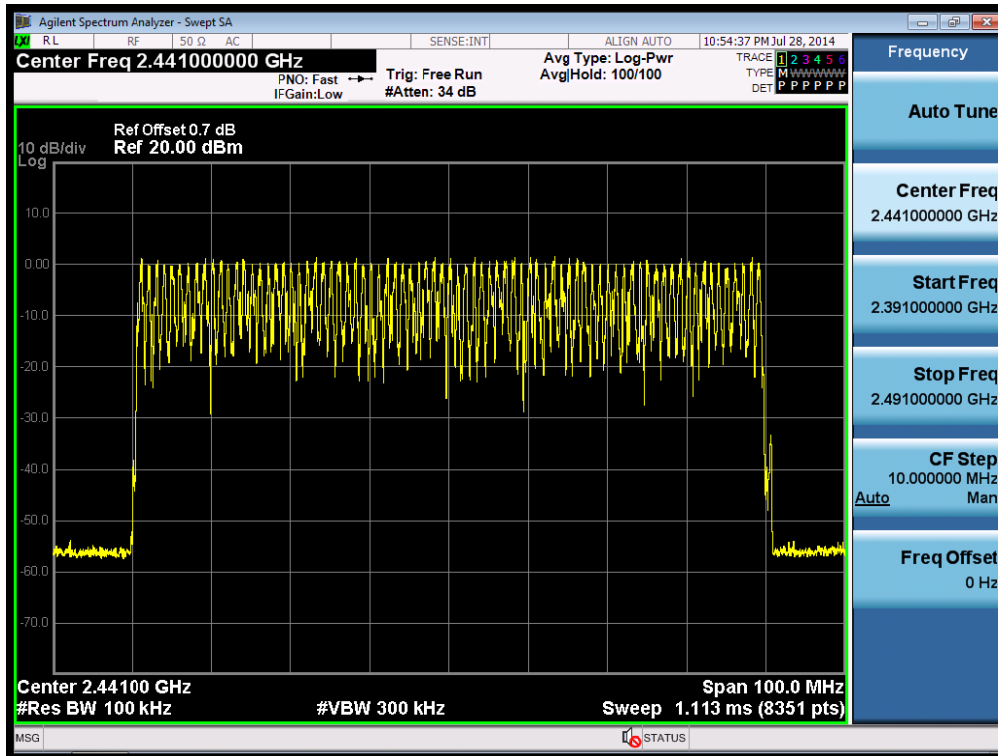




2.2. TM2-2DH5-Hop



2.3. TM3-3DH5-Hop



Appendix D: Time of Occupancy (Dwell Time)

1. Result Table

The Dwell Time=Burst Width*Total Hops. The detailed calculations are showed as follows:

- The duration for dwell time calculation: $0.4[s]*\text{hopping number}=0.4[s]*79[\text{ch}]=31.6[s*\text{ch}]$;
- The burst width [ms/hop/ch], which is directly measured, refers to the duration on one channel hop.
- The hops per second for all channels: The selected EUT Conf uses a slot type of 5-Tx&1-Rx and a hopping rate of 1600 [ch*hop/s] for all channels. So the final hopping rate for all channels is $1600/6=266.67$ [ch*hop/s]
- The hops per second on one channel: 266.67 [ch*hops/s]/ 79 [ch]= 3.38 [hop/s];
- The total hops for all channels within the dwell time calculation duration: 3.38 [hop/s]* $31.6[s*\text{ch}]=106.67$ [hop*ch];
- The dwell time for all channels hopping: 106.67 [hop*ch]*Burst Width [ms/hop/ch].

EUT Conf.	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Verdict
TM1-DH5-Ch39	0.461	106.67	49.17487	PASS
TM2-2DH5-Ch39	0.311	106.67	33.17437	PASS
TM3-3DH5-Ch39	0.257	106.67	27.41419	PASS

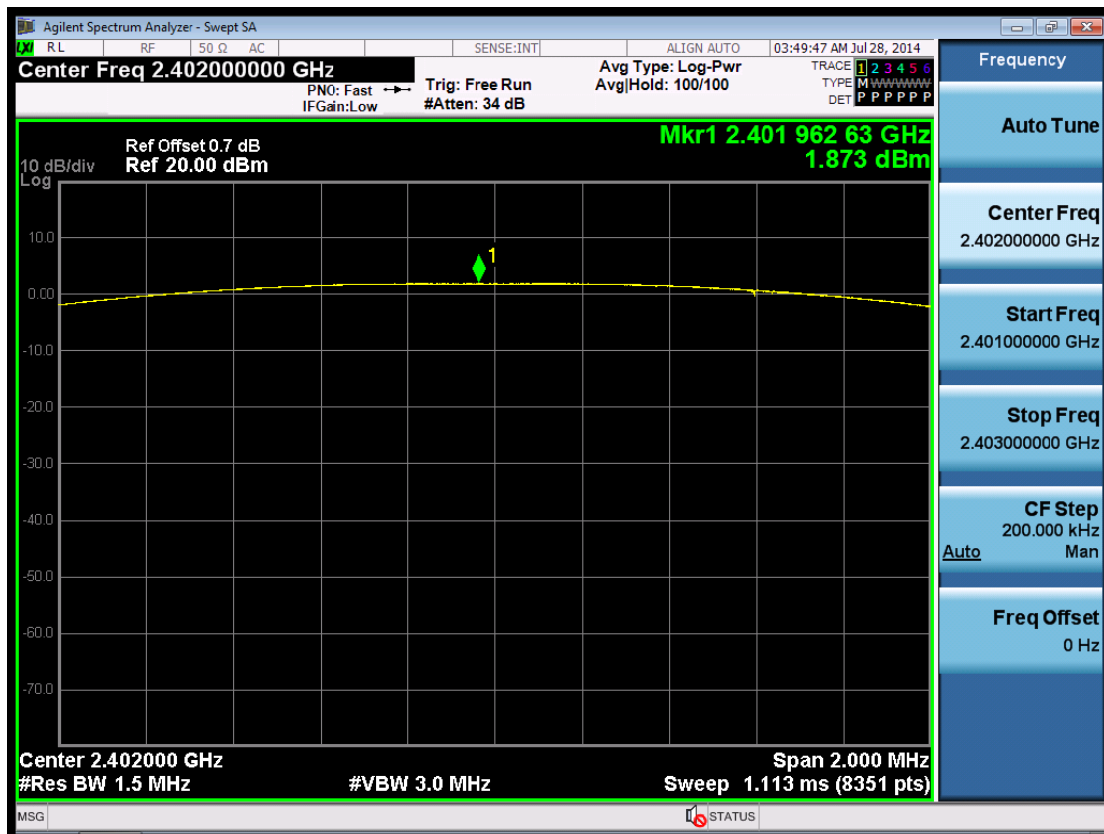
Appendix E: Maximum Peak Conducted Output Power

1. Result Table

EUT Conf.	Maximum Peak Output Power [dBm]	Verdict
TM1-DH5-Ch0	1.87	PASS
TM1-DH5-Ch39	2.36	PASS
TM1-DH5-Ch78	2.36	PASS
TM2-2DH5-Ch0	1.34	PASS
TM2-2DH5-Ch39	1.61	PASS
TM2-2DH5-Ch78	1.61	PASS
TM3-3DH5-Ch0	1.33	PASS
TM3-3DH5-Ch39	1.53	PASS
TM3-3DH5-Ch78	1.58	PASS

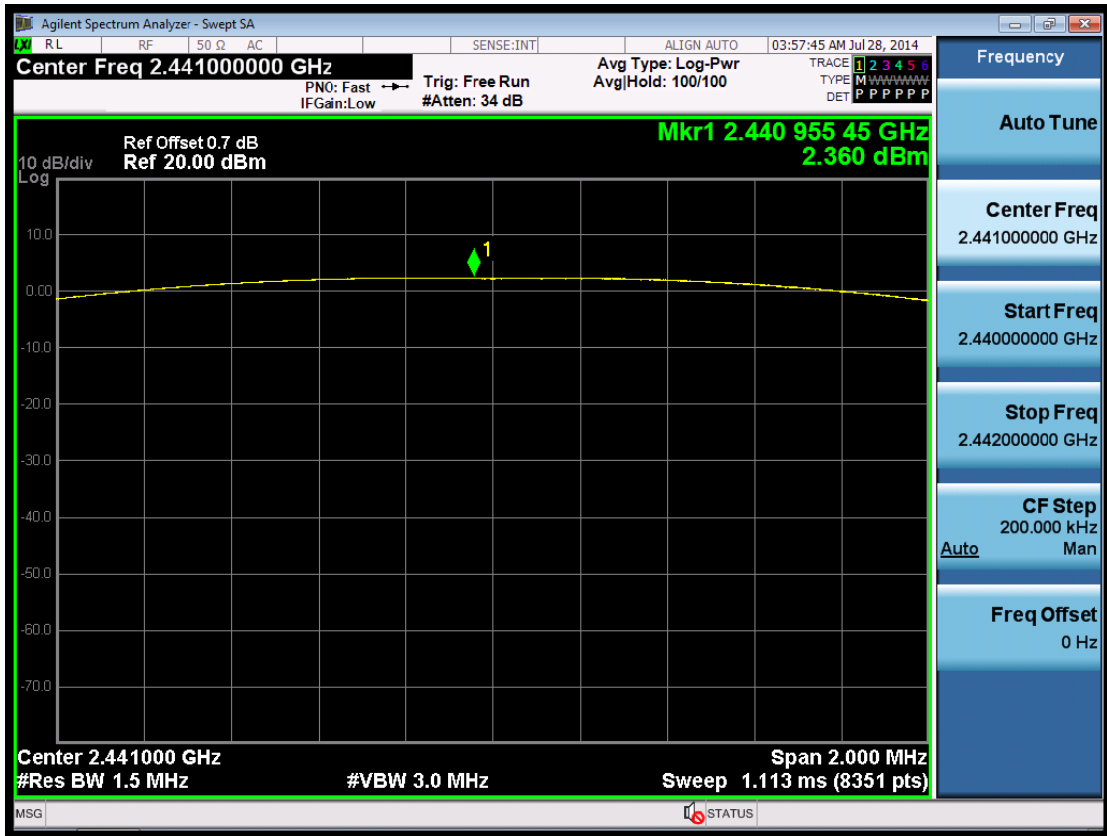
2. Test Plot

2.1. TM1-DH5-Ch0

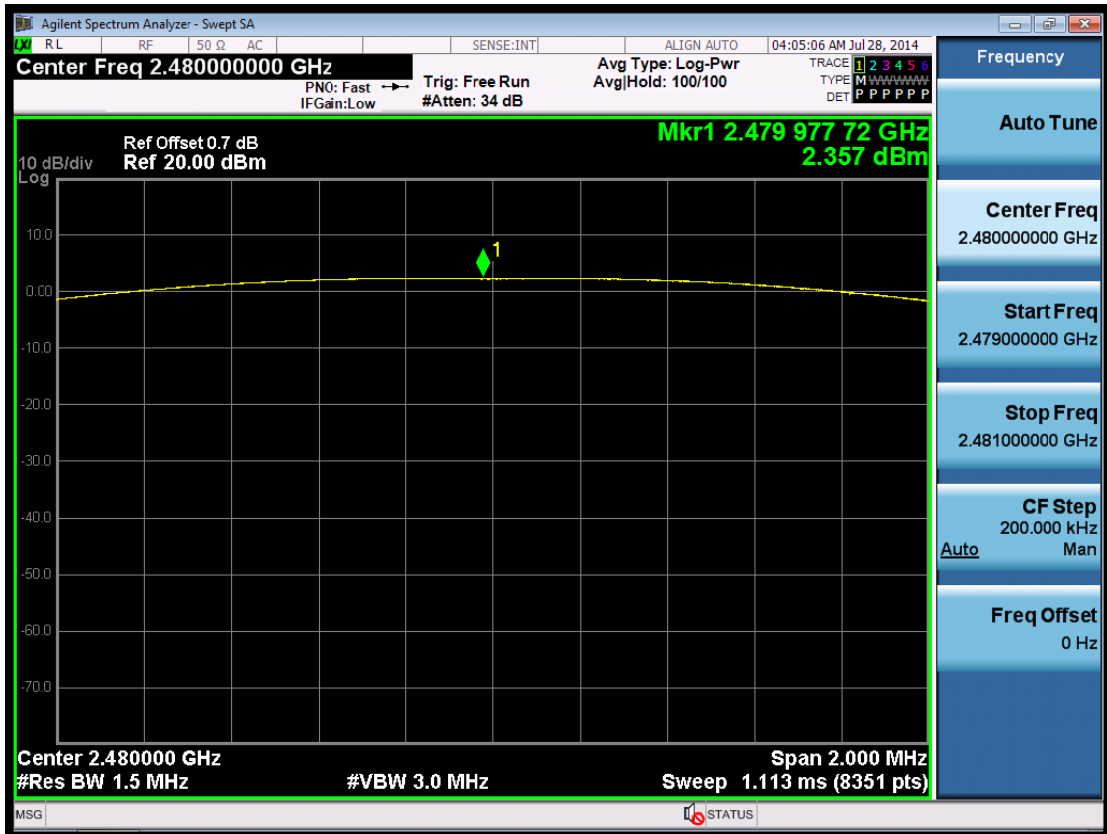




2.2. TM1-DH5-Ch39

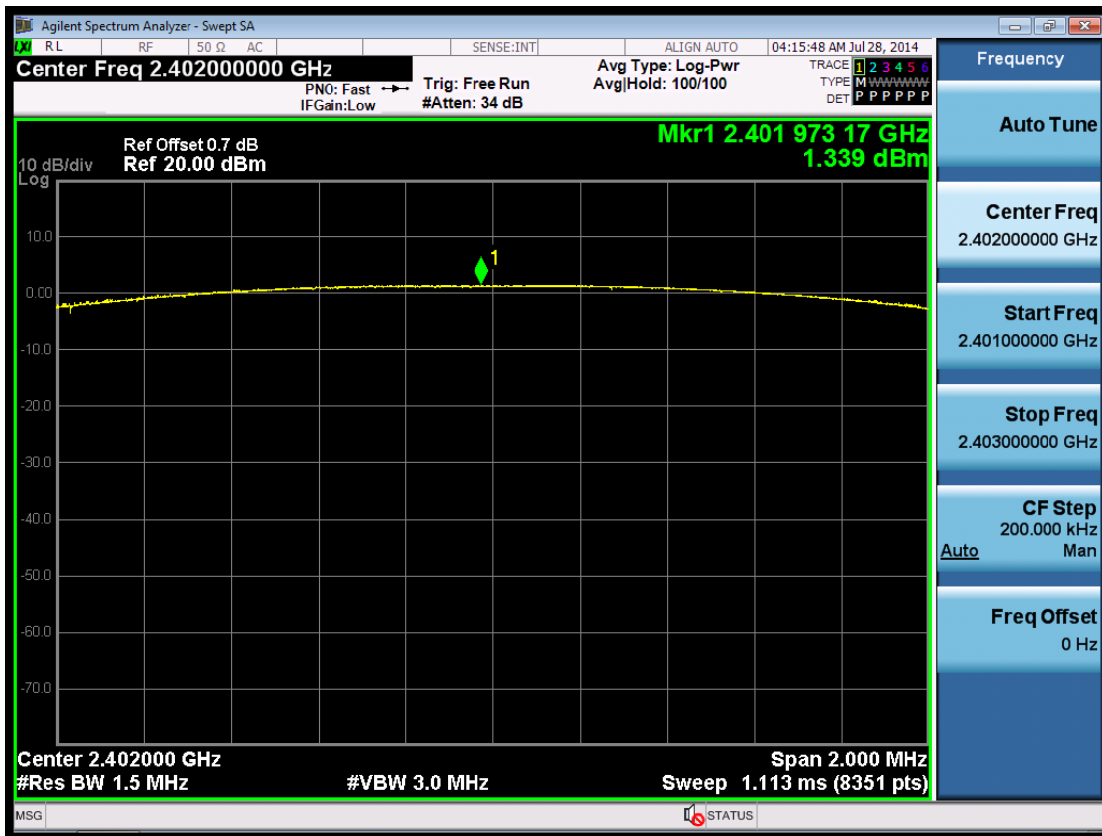


2.3. TM1-DH5-Ch78

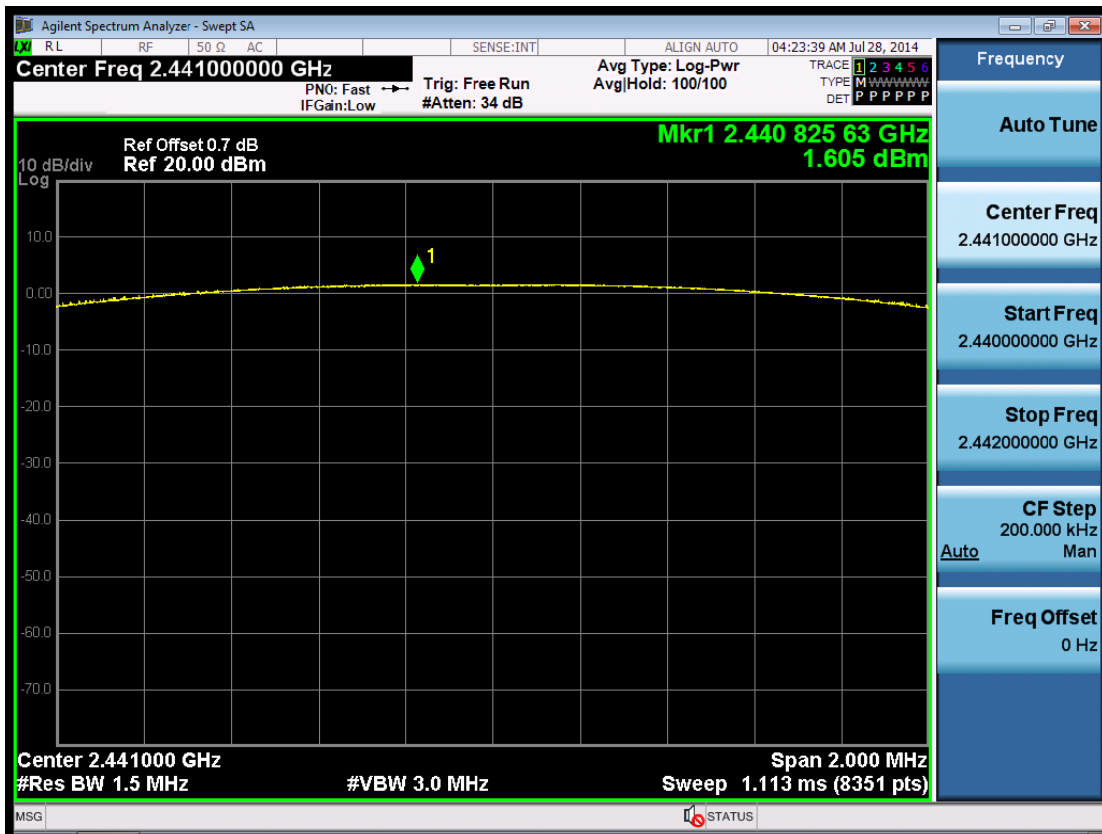




2.4. TM2-2DH5-Ch0

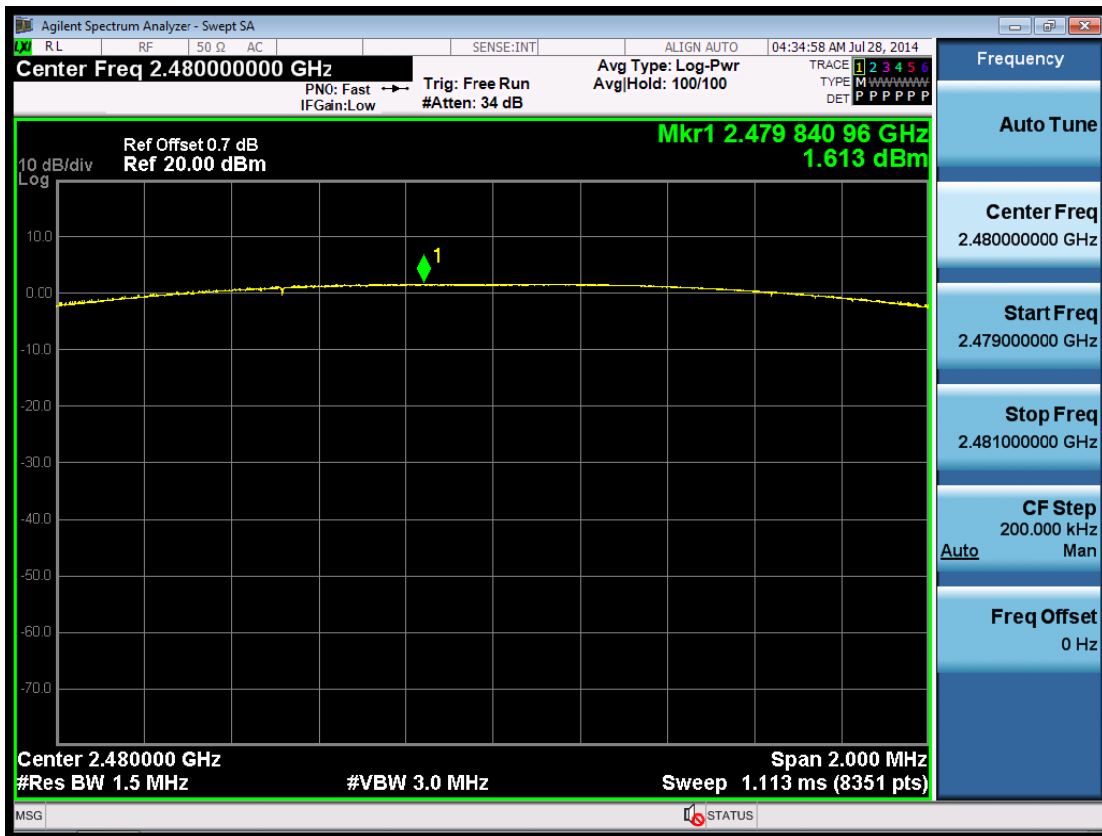


2.5. TM2-2DH5-Ch39

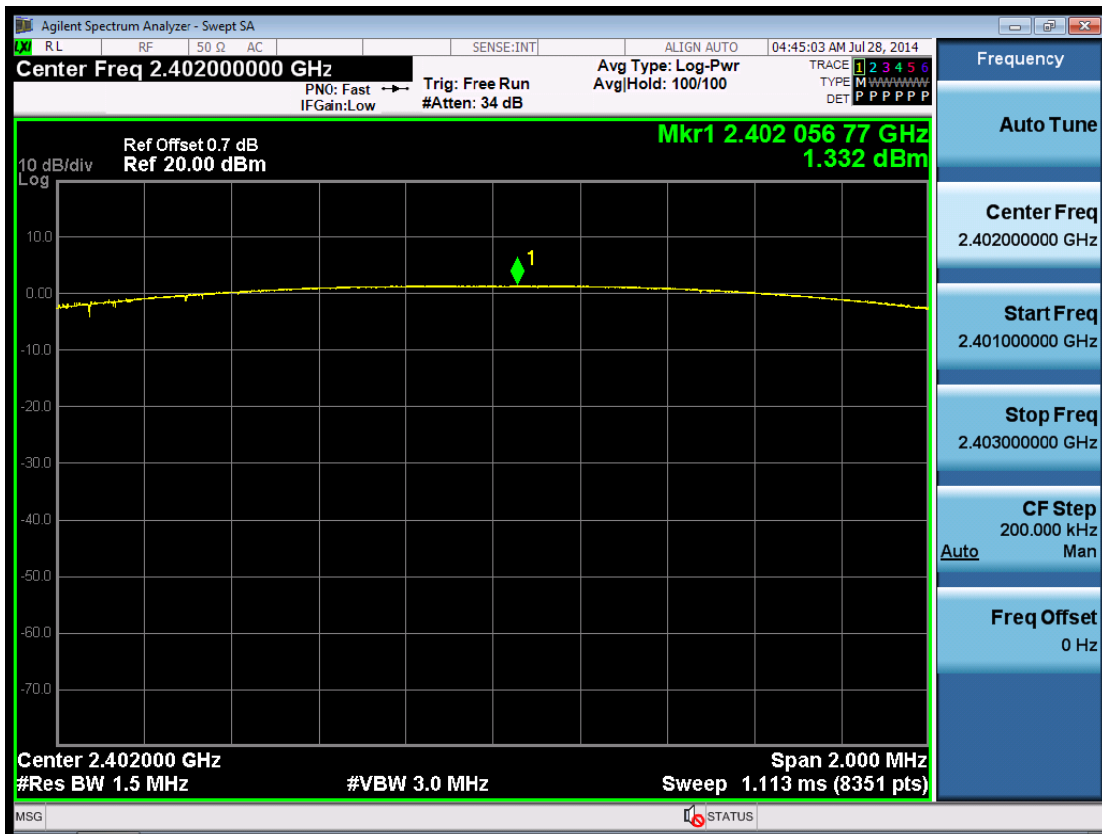




2.6. TM2-ZDH5-Ch78

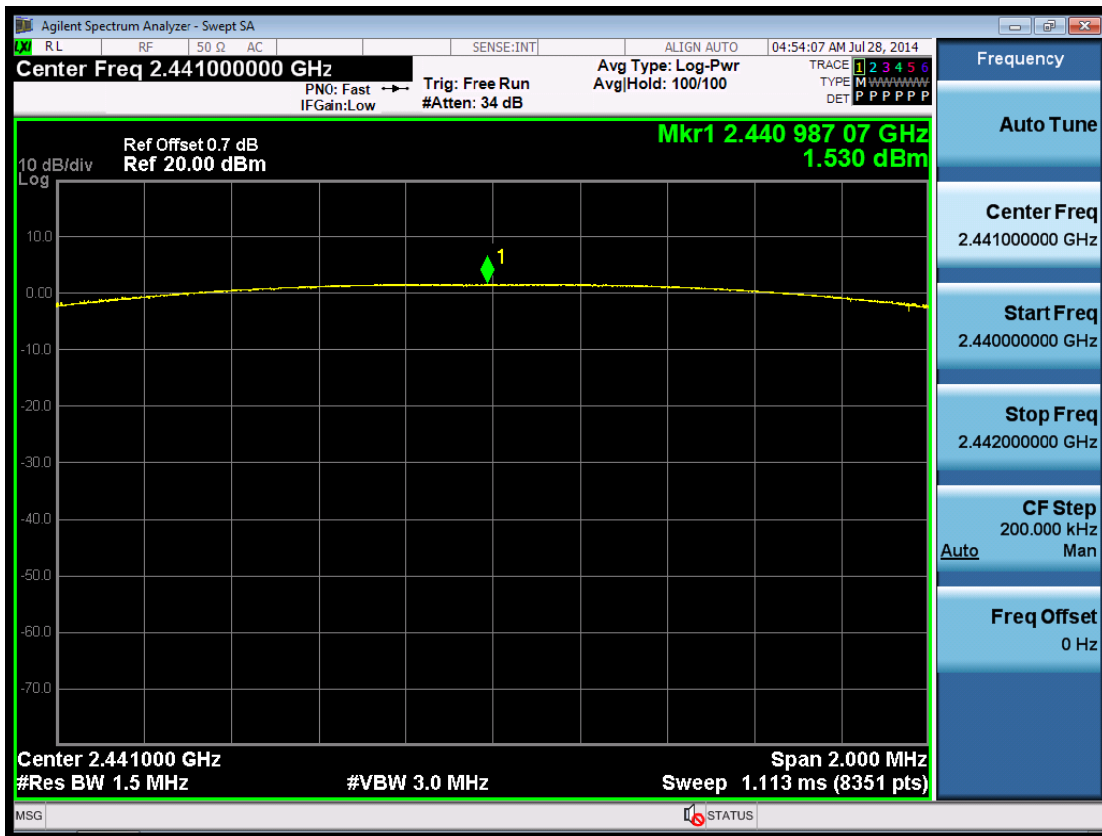


2.7. TM3-3DH5-Ch0

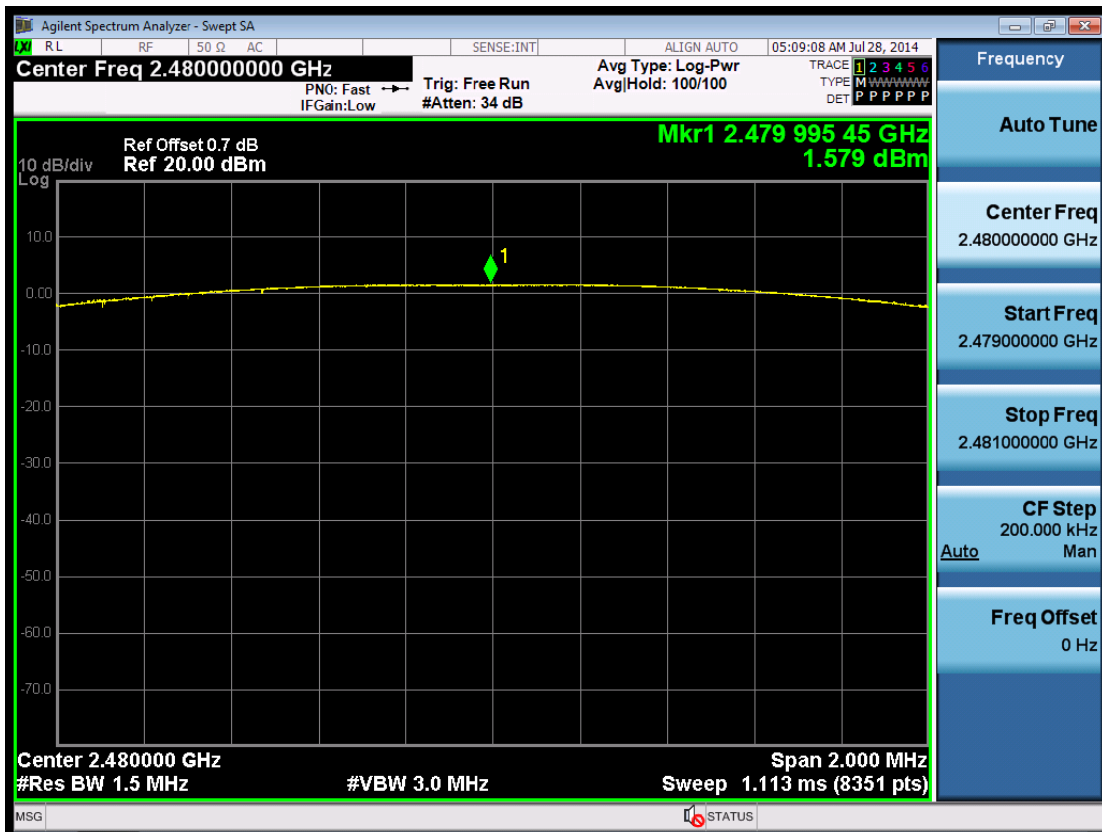




2.8. TM3-3DH5-Ch39



2.9. TM3-3DH5-Ch78



Appendix F: Band Edge Spurious Emission

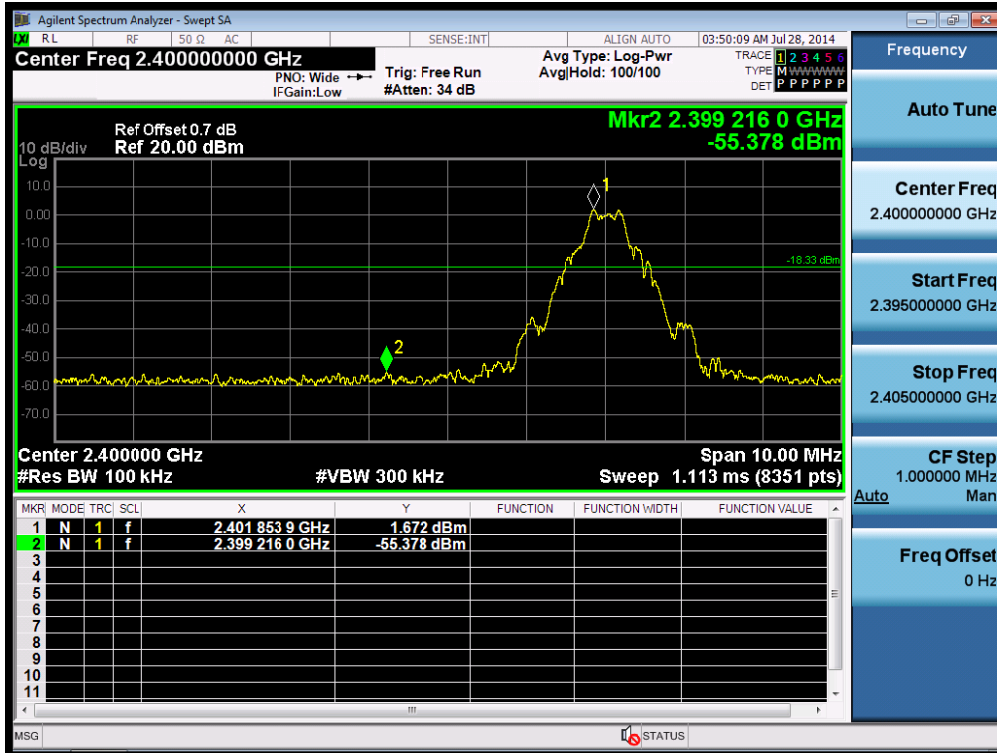
1. Result Table

EUT Conf.	Channel NO.	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
TM1-DH5-Ch0	0	2402	1.67	Off	-55.38	-18.33	PASS
			2.1	On	-54.83	-17.9	PASS
TM1-DH5-Ch78	78	2480	2.22	Off	-55.29	-17.78	PASS
			2.28	On	-54.27	-17.72	PASS
TM2-2DH5-Ch0	0	2402	0.97	Off	-54.53	-19.03	PASS
			-0.07	On	-54.46	-20.07	PASS
TM2-2DH5-Ch78	78	2480	0.65	Off	-55.15	-19.35	PASS
			1.2	On	-54.07	-18.8	PASS
TM3-3DH5-Ch0	0	2402	1.02	Off	-54.48	-18.98	PASS
			0.32	On	-54.98	-19.68	PASS
TM3-3DH5-Ch78	78	2480	3.60	Off	-49.32	-16.40	PASS
			3.73	On	-48.25	-16.27	PASS

2. Test Plot

2.1. TM1-DH5-Ch0

Hopping Off

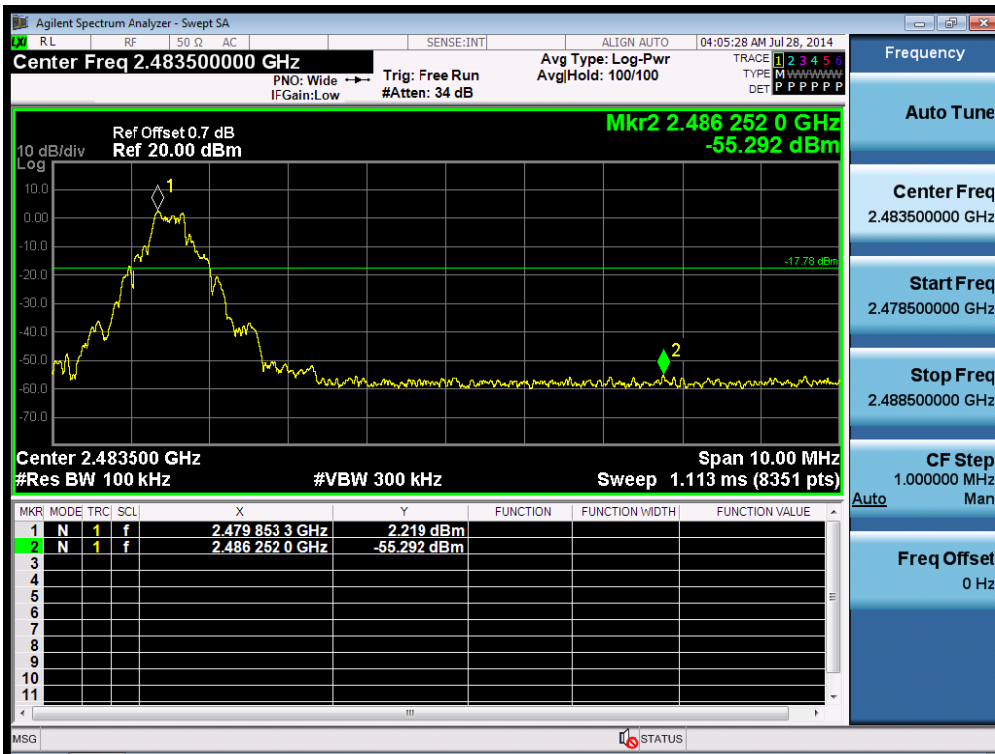


Hopping On

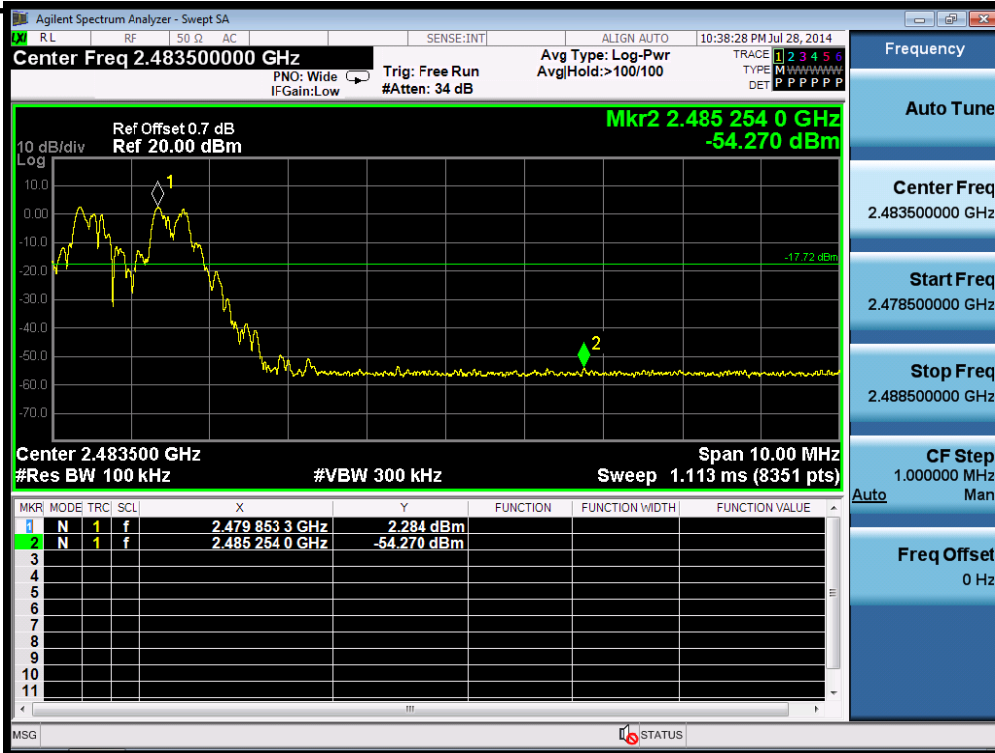


2.2. TM1-DH5-Ch78

Hopping Off



Hopping On

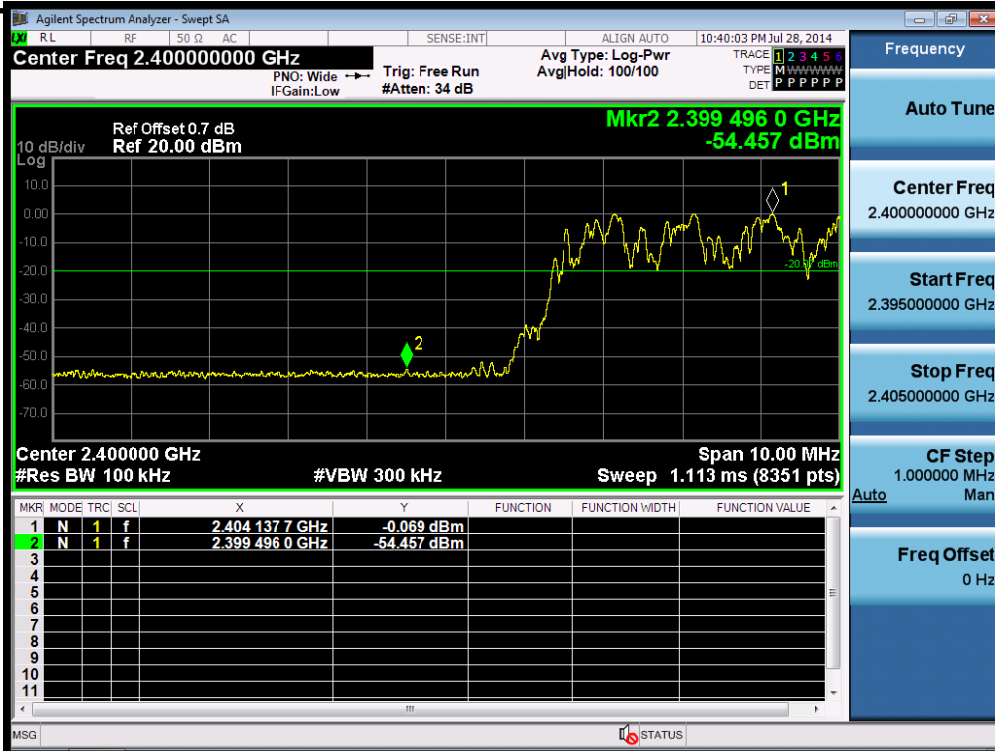


2.3. TM2-2DH5-Ch0

Hopping Off

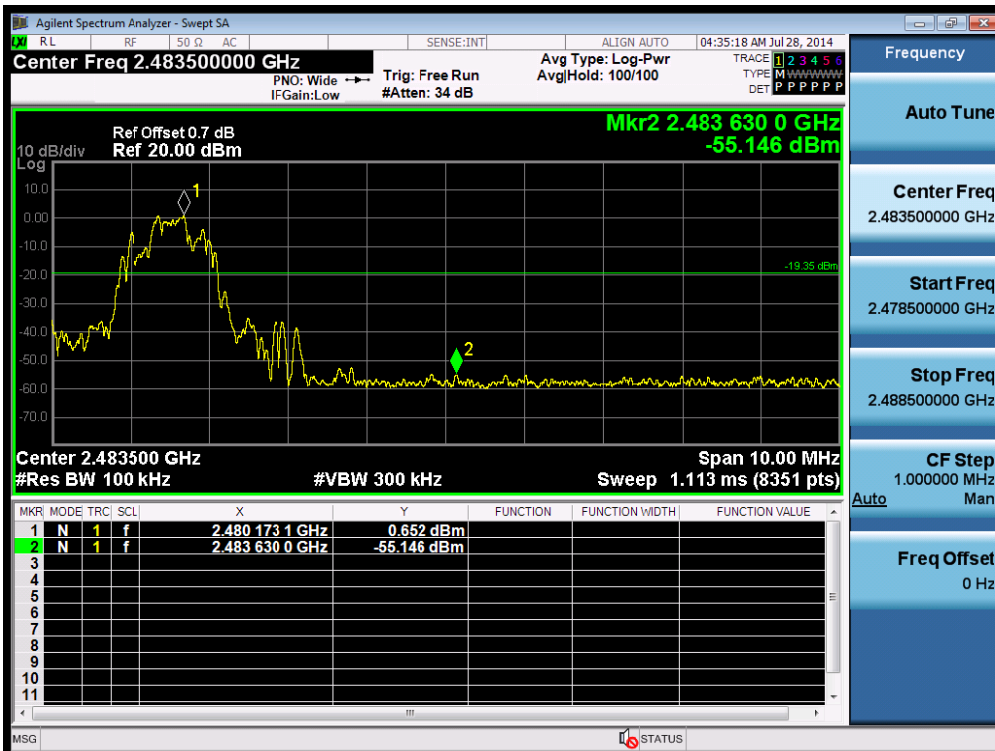


Hopping On



2.4. TM2-2DH5-Ch78

Hopping Off



Hopping On

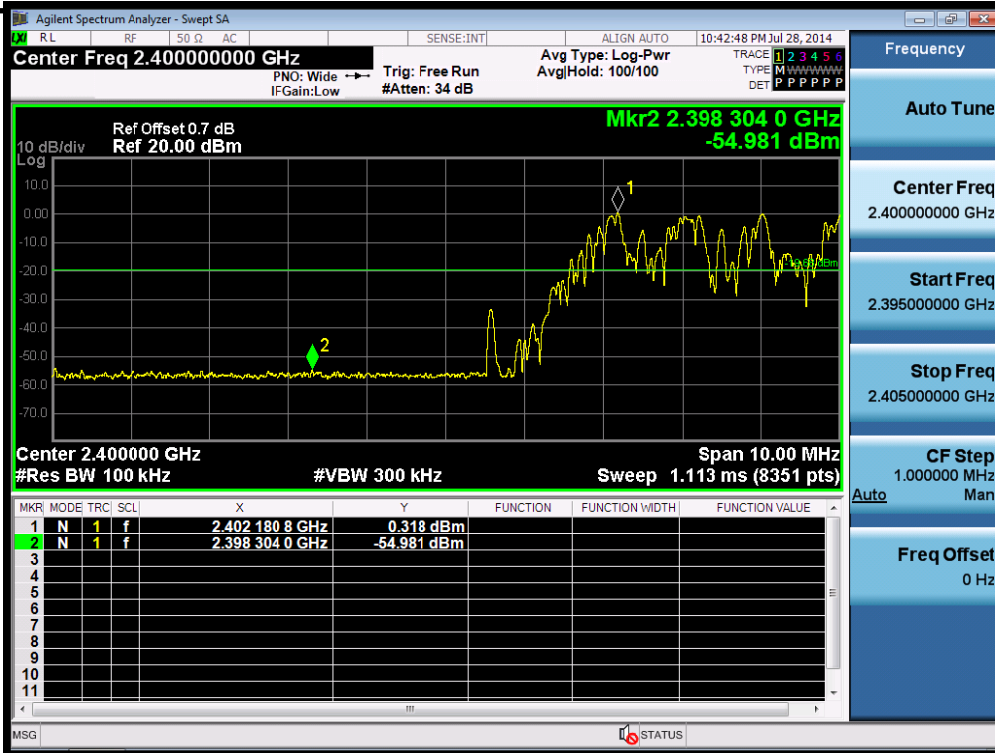


2.5. TM3-3DH5-Ch0

Hopping Off

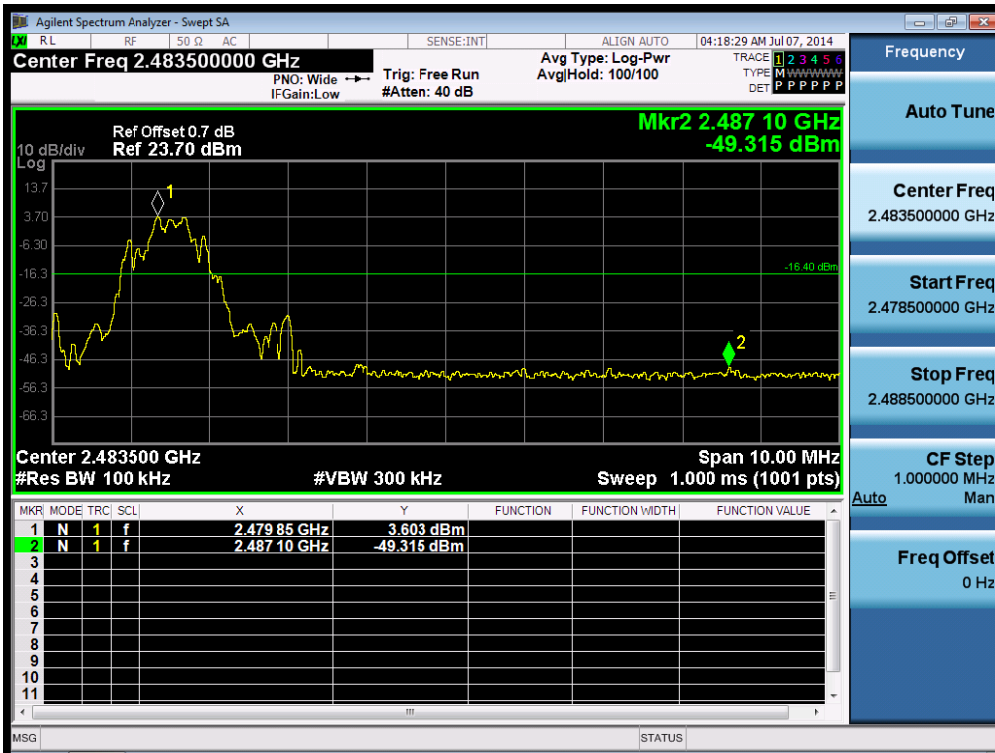


Hopping On



2.6. TM3-3DH5-Ch78

Hopping Off



Hopping On

Appendix G: Conducted RF Spurious Emission

1. Result Table

EUT Conf.	Pref [dBm]	Puw[dBm]	Verdict
TM1-DH5-Ch0	1.64	<Limit	PASS
TM1-DH5-Ch39	2.3	<Limit	PASS
TM1-DH5-Ch78	2.22	<Limit	PASS
TM2-2DH5-Ch0	0.94	<Limit	PASS
TM2-2DH5-Ch39	0.85	<Limit	PASS
TM2-2DH5-Ch78	1.3	<Limit	PASS
TM3-3DH5-Ch0	0.82	<Limit	PASS
TM3-3DH5-Ch39	1.43	<Limit	PASS
TM3-3DH5-Ch78	1.35	<Limit	PASS

2. Test Plot

2.1. TM1-DH5-Ch0

Pref:



PUW: