MOTOROLA SOLUTIONS

CERTIFICATE 2518.08

MS ISO/IEC 17025
TESTING
SAMM NO. 0825

MOTOROLA PENANG ADV. COMM. LABORATORY
Motorola Solutions Malaysia Sdn Bhd
Plot 2A, Medan Bayan Lepas,
Mukim 12 SWD, 11900 Bayan Lepas,
Penang, Malaysia.

FCC / ISED TEST REPORT
Report Revision : Rev.A

Date/s Tested	:	6-JAN-2020 - 12-FEB-2020
Manufacturer	:	Motorola Solutions Malaysia Sdn Bhd
Manufacturer Address	:	Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia
Requestor	:	HENG TUCK CHANG
Product Type	:	Portable
Model Number	:	AAH87JDF9JA2AN
Frequency Band	:	136-174MHz
Firmware Version	:	D01.01.50.0039
Low / Max RF Output Power	:	1Watt /6Watts
Applicant Name	:	Motorola Solutions Inc
Applicant Address	:	8000 West Sunrise Boulevard, Fort Lauderdale, Florida 33322.
ISED Registrations	:	MY0001
FCC Registrations	:	461337

The equipment was tested accordance to the requirement listed below:

(LMR) FCC 47 CFR Part 15B / RSS Gen	**PASS**

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Prepared By:

AARON GOH
Test Personnel

Approved Signatory:

VINCENT FOONG CHUEN KIT
Deputy Technical Manager

Table of Contents

1.0. General Information

EUT Description:

Technologies	Land Mobile Radio (LMR)
Modulation Type	Analog ,C4FM , Phase II

The EUT was tested with following device/accessory:

Item	Brand	Model or P/N
BATTERY	MOTOROLA	PMNN4080AR

General Description of Applied Standards
The EUT is a RF Product. According to the specifications of the manufacturer, the EUT is to comply with the requirements of the following standards:

ANSI C63.26.2015
ANSI C63.4.2014

2.0. Summary of Test Results

FCC General Rules Part (47CFR)	IC General Rules Part	Test Item	Result
15.109, 15.111	RSS-Gen	Conducted Spurious Output Power	Pass
15.109, 15.111	RSS-Gen	Radiated Spurious Output Power	Pass

NA → Not Applicable

3.0. Measurement Uncertainty

Measurement	Frequency	Expended Uncertainty (k=1.96) (±)
AC Power Line Conducted Spurious Emission	150KHz ~ 30MHz	3.43
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	4.25
	200MHz ~ 1000MHz	4.25
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	4.25
	18GHz ~ 25GHz	4.25
Conducted Spurious Emissions	9kHz ~ 12.75GHz	2.82

4.0. Equipment List

CONDUCTED SPUR EMISSION ATE # 1 (SW version: Conducted Spur ATE_rev 1.23.02)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
SWITCH CONTROL UNIT	3488A	2719A32735	CNR	CNR
PSA SERIES SPECTRUM ANALYZER	E4445A	MY46181732	12-Mar-19	12-Mar-21
POWER SUPPLY	6032A	2723A02219	2-Jul-19	2-Jul-20
HIGH PASS FILTER SWITCH BOX	-	CS001	4-Jul-19	4-Jul-20
N TO N RF CABLE # 1	SF126/11N/11N	NA	NA	NA
N TO N RF CABLE # 2	SF126/11N/11N	NA	NA	NA
BNC TO BNC RF CABLE # 1	RG 58	NA	NA	NA
AEROFLEX ATTENUATOR 30DB	49-30-43-LIM	NA	NA	NA
AEROFLEX ATTENUATOR 10DB	33-10-34-LIM	NA	NA	NA

Radiated Emission: EMC Chamber 1

DESCRIPTION	MODEL	SERIAL NUMBER	CALIBRATION DATE	CALIBRATION DUE DATE
DRG HORN FREQ.	SAS-571	720	21-Mar-19	21-Mar-21
DRG HORN FREQ.	SAS-571	1143	14-Feb-19	14-Feb-21
POWER SUPPLY (0-60V / 0-50A, 1000W)	6032A	MY41001736	25-May-19	25-May-20
SIGNAL GENERATOR	SMB 100A	181117	8-Nov-18	8-Nov-21
EMI TEST RECEIVER	ESW44	101750	24-Jul-19	24-Jul-20
EMI TEST RECEIVER	ESIB26	100017	19-Jul-19	19-Jul-20
5m Semi-anechoic Chamber	S800-HX	J2308	No Cal. Req'd	No Cal. Req'd
BILOG ANTENNA	CBL6112D	30991	5-Aug-19	5-Aug-20
BILOG ANTENNA	CBL6112B	2964	16-Feb-18	16-Feb-20
DATA LOGGER	SDL500	A.016800	19-Mar-19	18-Mar-20
SYSTEM CONTROLLER	SC104V	050806-1	No Cal. Req'd	No Cal. Req'd
TURNTABLE FLUSH MOUNT 2M	FM2011	NA	No Cal. Req'd	No Cal. Req'd
ANTENNA POSITIONING TOWER	TLT2	NA	No Cal. Req'd	No Cal. Req'd
BROAD-BAND HORN ANTENNA	BBHA9170	BBHA9170143	23-Jun-19	23-Jun-20
18 - 40GHz PREAMPLIFIER	Miteq Hi Gain Sucoflex	001	No Cal. Req'd	No Cal. Req'd
PREAMPLIFIER	PAM-0118	269	24-May-19	24-May-20
LOOP ANTENNA	6502	00208416	5-Sep-19	5-Sep-20
Test Software	EMC_FCC_IC_Bluetooth_RE_Test			
Version	EMC_FCC_RE_v1.6.1			

CNR → Calibration Not Required

5.0. Test Condition

5.1 Receiver Test Conditions

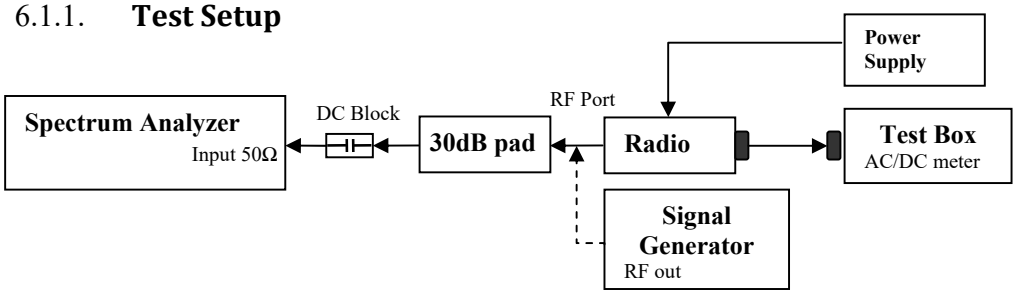
Test Item, (Channel Spacing)	Temperature (ºC)	Voltage Supply (V)	Power (W)	Modulation	Test Frequency (MHz)
Conducted Spurious Output Power (12.5kHz / 25kHz)	**25ºC**	**Nominal**	**Max**	**Analog**	**138.0125, 150.8125, 161.7, 173.3875**
Radiated Spurious Output Power (12.5kHz / 25kHz)	**25ºC**	**Nominal**	**Max**	**Analog**	**138.0125, 150.8125, 161.7, 173.3875**
AC Power Line Conducted Spurious Emissions (12.5kHz / 25kHz)	**25ºC**	**Nominal**	**Max**	**Analog**	**NA**

NA → Not Applicable

6.0. Test Parameters

6.1 Receiver Conducted Spurious Output Power

6.1.1. **Test Setup**

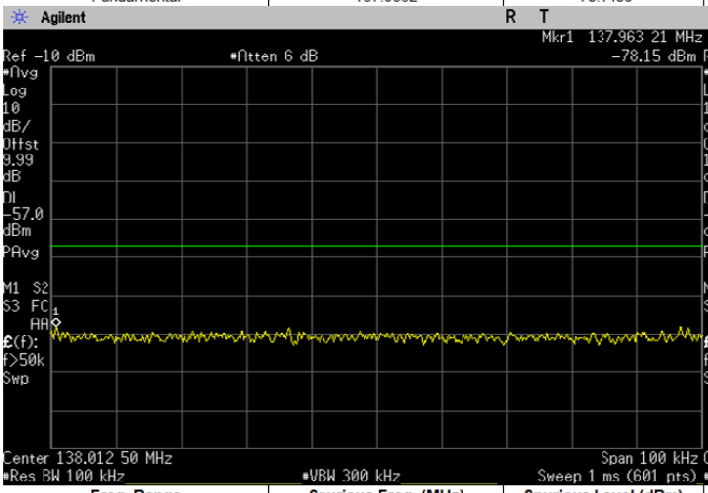


1) Identify the radio is high side (LO = Fc + IF) or low side injection (LO = Fc – IF).
2) To get the reference point, set sigen to 1st LO frequency with amplitude level 0dBm.
3) Set the LO frequency into PSA. Adjust the PSA RBW = 100 kHz and record the Reference level offset.
4) Replace the Sigen with the UUT.
5) At PSA, set the frequency step size to LO frequency to test from 2LO to 10LO.
6) Record or screen captures the data in dBm value.

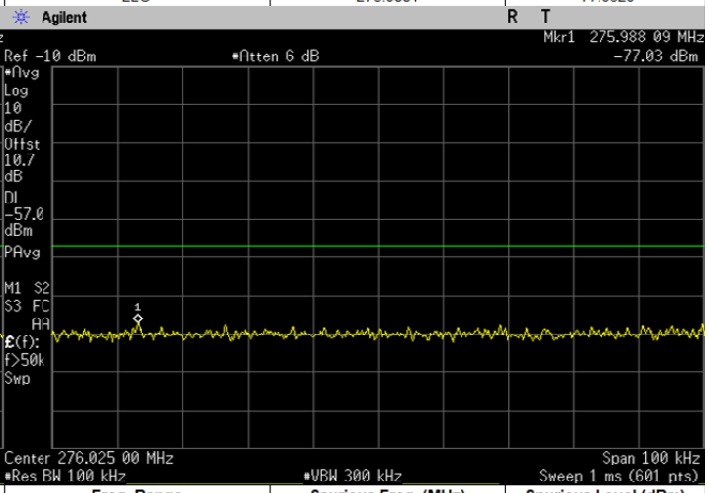
6.1.2. **Test Result**

Channel Frequency : **138.01** **Channel Spacing** : **12.5k**

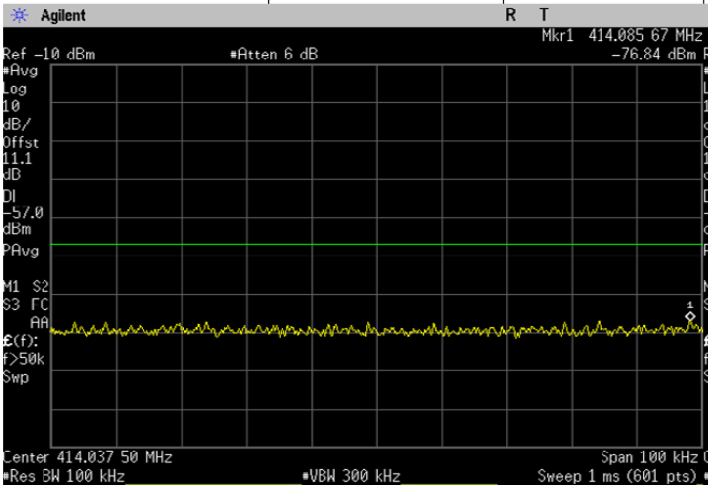
Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
Fundamental	137.9632	-78.1480



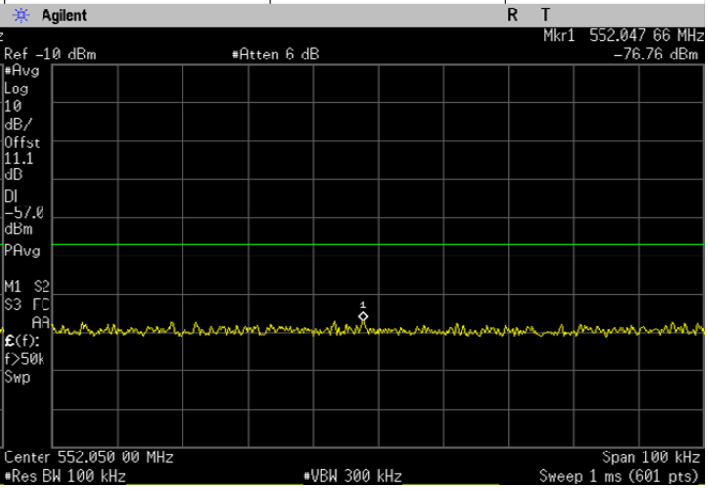
Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
2LO	275.9881	-77.0320



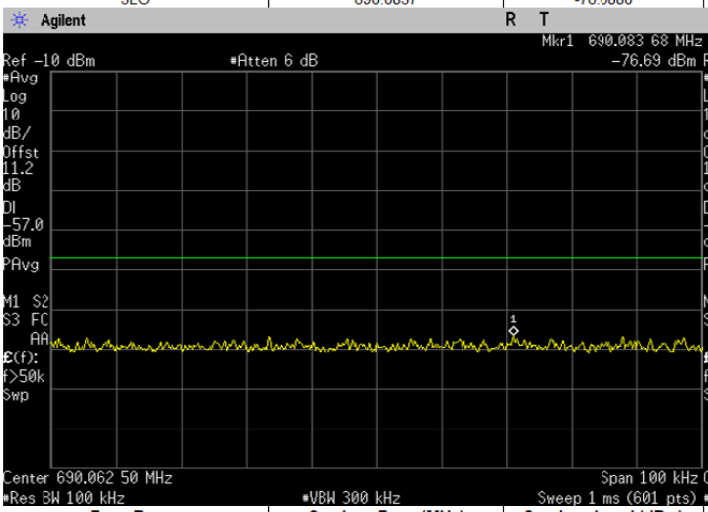
Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
3LO	414.0857	-76.3370



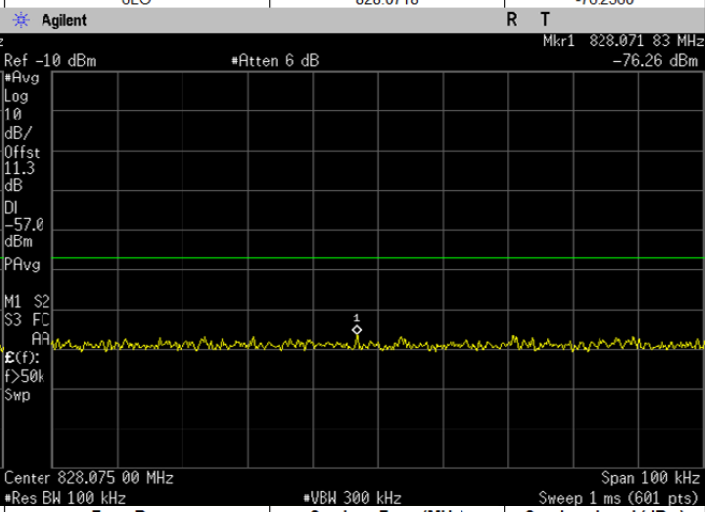
Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
4LO	552.0477	-76.7630



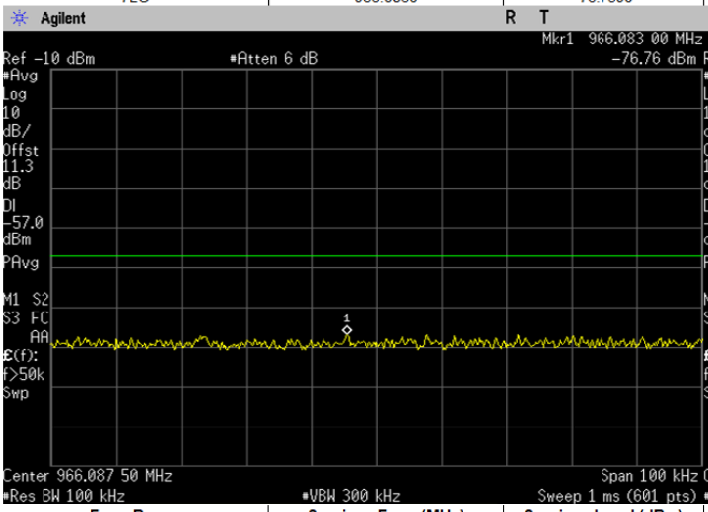
Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
5LO	690.0837	-76.6880



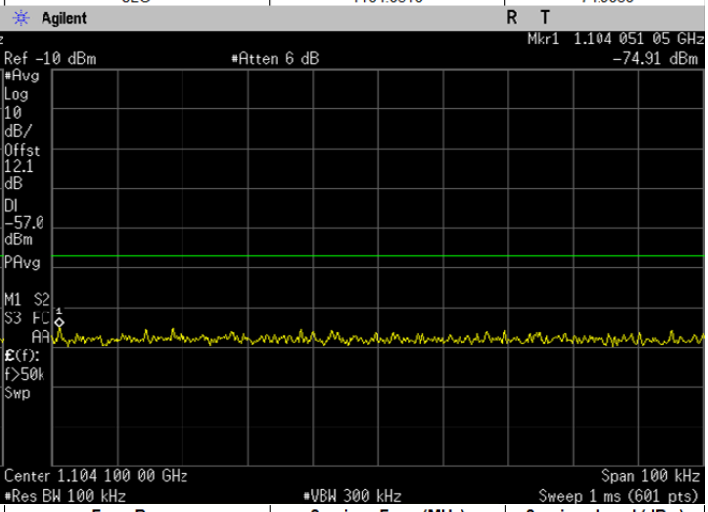
Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
6LO	828.0718	-76.2560



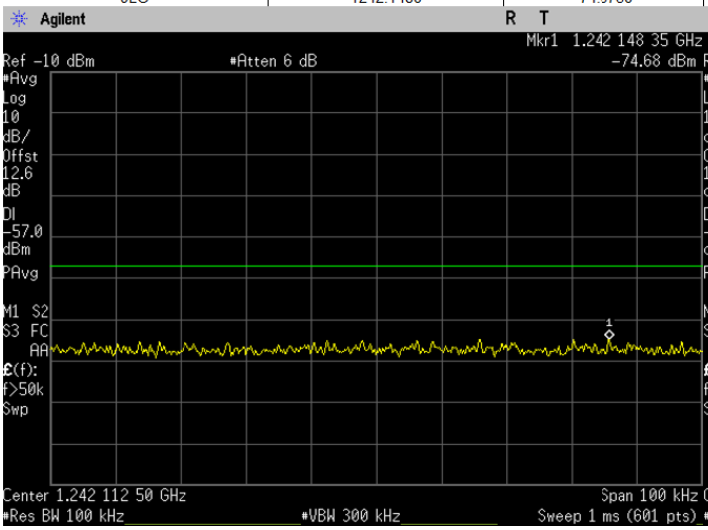
Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
7LO	966.0830	-76.7590



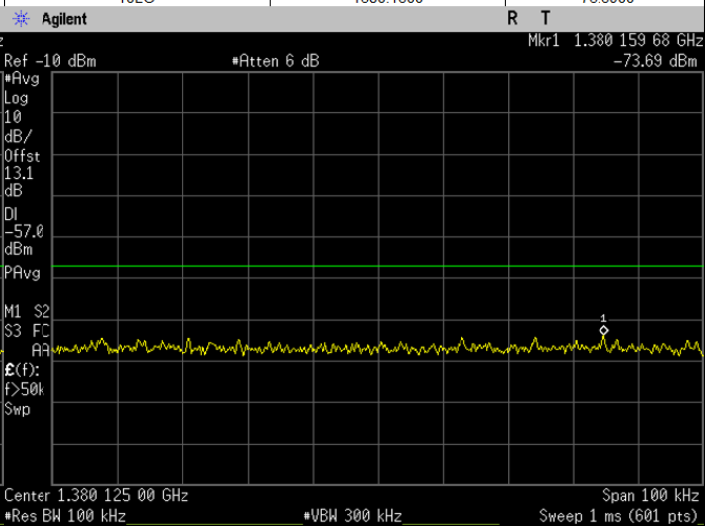
Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
8LO	1104.0510	-74.9060



Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
9LO	1242.1480	-74.8750

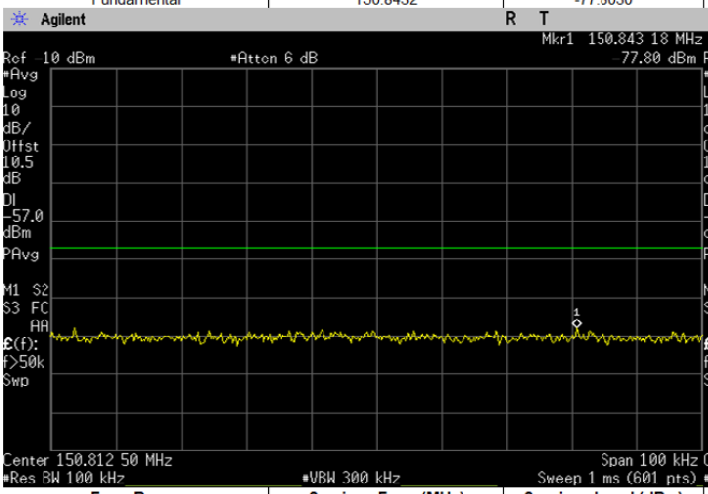


Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
10LO	1380.1600	-73.6900

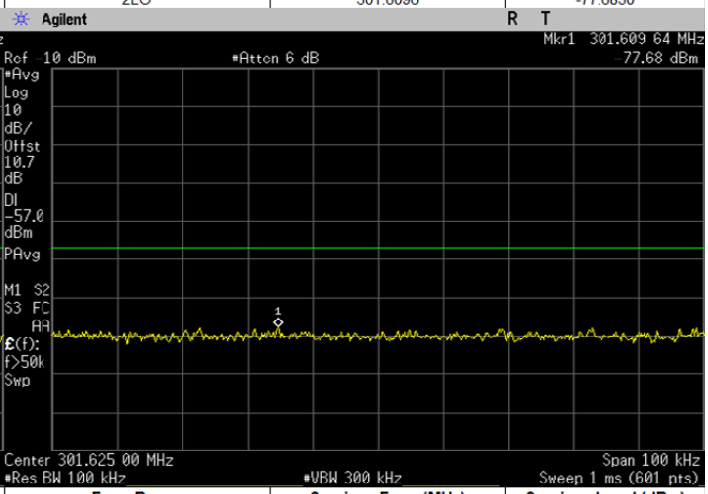


Channel Frequency : **150.81** **Channel Spacing** : **12.5k**

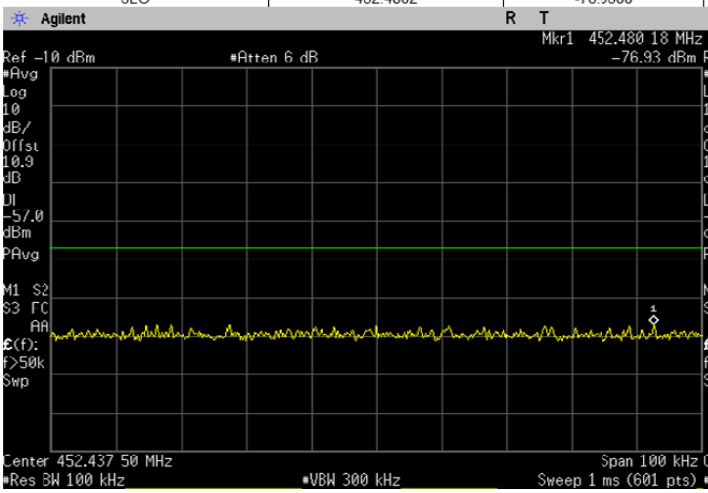
Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
Fundamental	150.8432	-77.3030



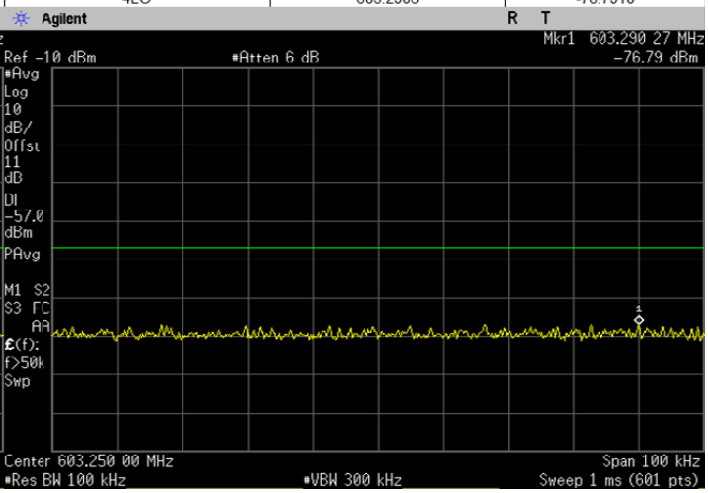
Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
2LO	301.6096	-77.6850



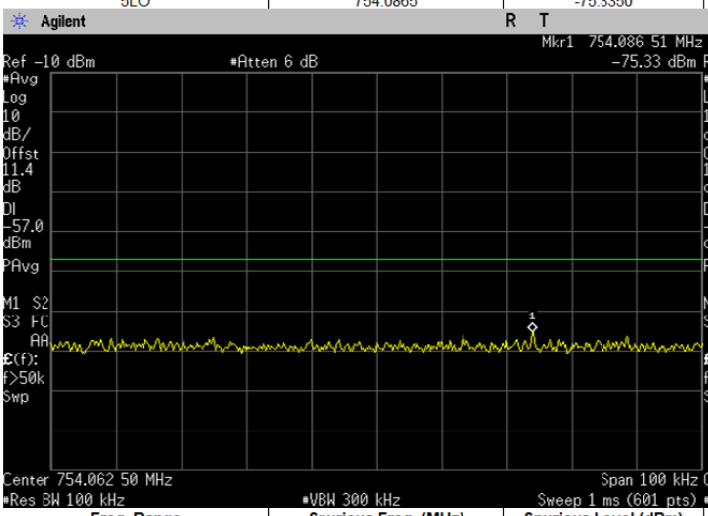
Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
3LO	452.4802	-76.9300



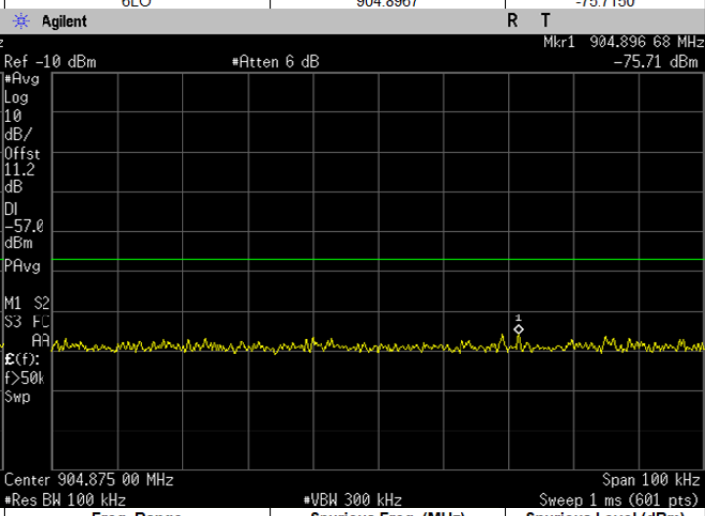
Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
4LO	603.2903	-76.7910



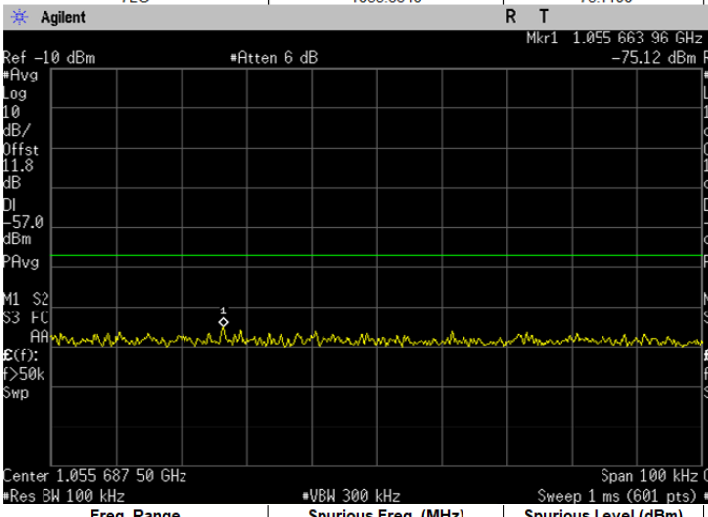
Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
5LO	754.0865	-75.3350



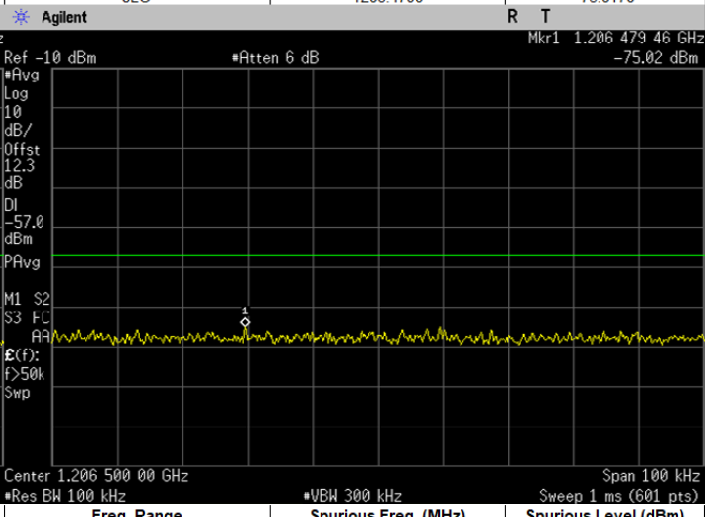
Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
6LO	904.8967	-75.7150



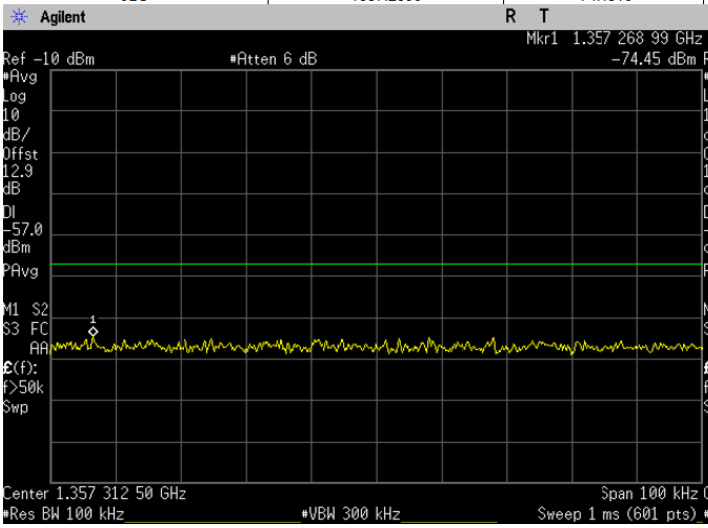
Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
7LO	1055.6640	-75.1190



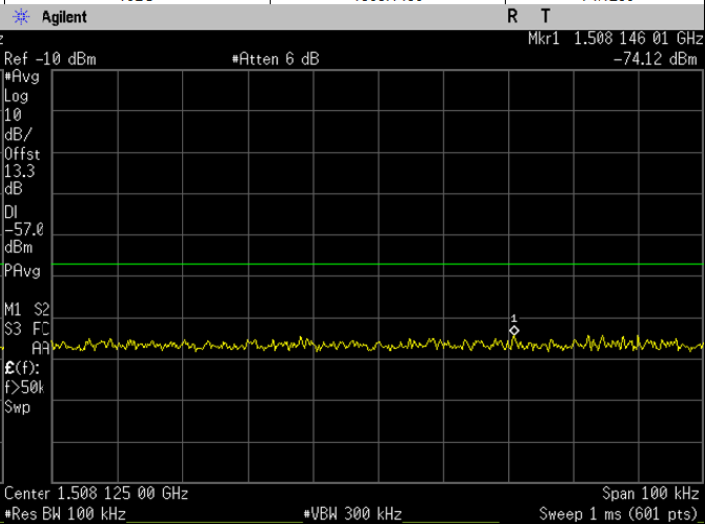
Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
8LO	1206.4790	-75.0170



Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
9LO	1357.2690	-74.4510

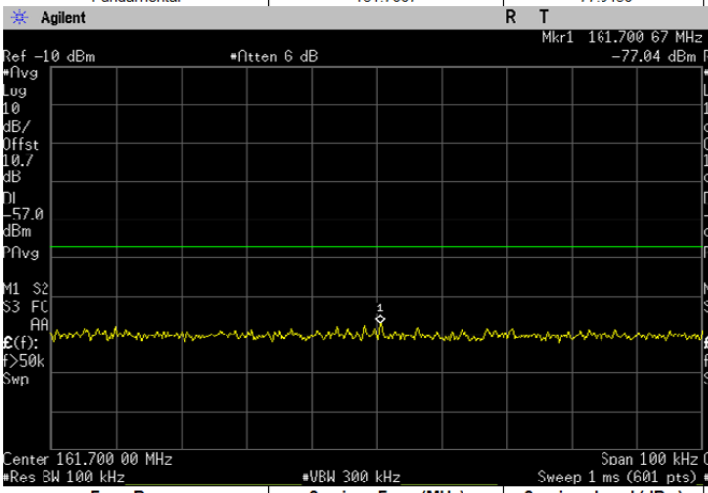


Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
10LO	1508.1460	-74.1230

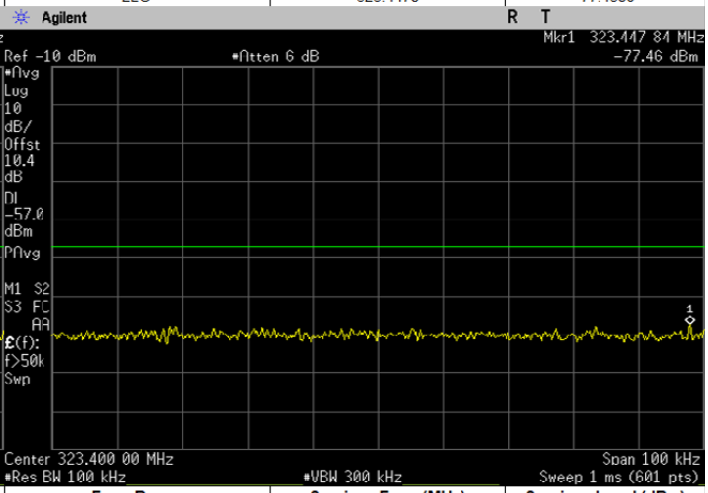


Channel Frequency : **161.70** **Charnel Spacing** : **25k**

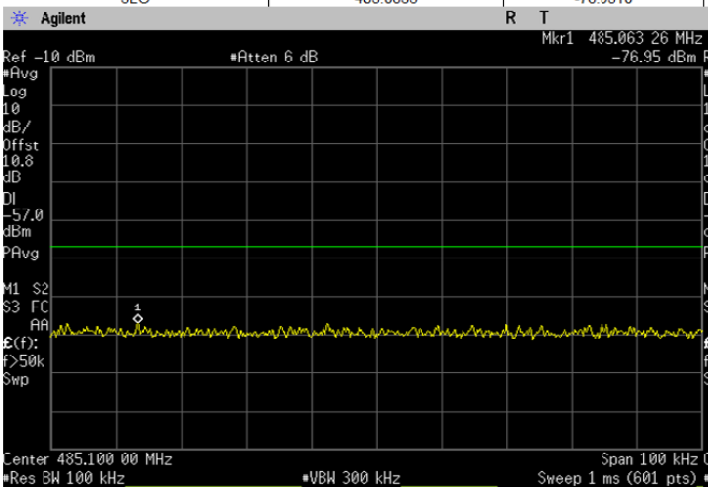
Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
Fundamental	161.7007	-77.0450



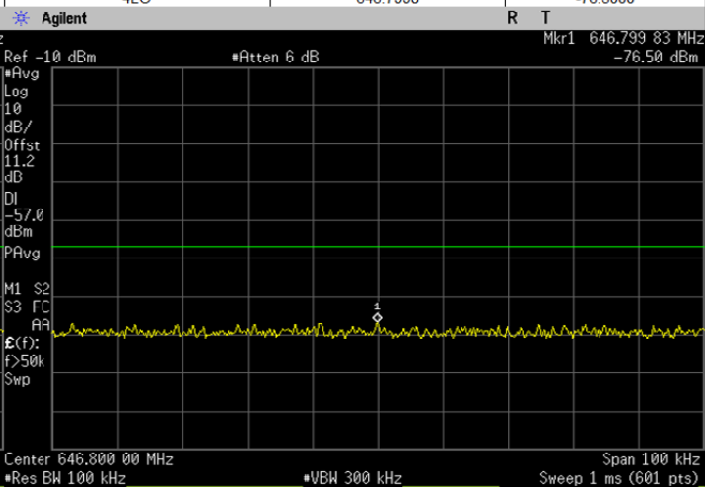
Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
2LO	323.4478	-77.4580



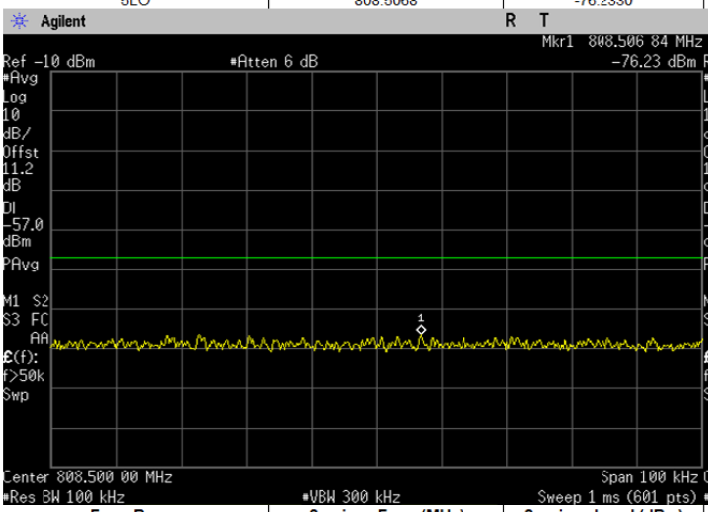
Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
3LO	485.0633	-76.9510



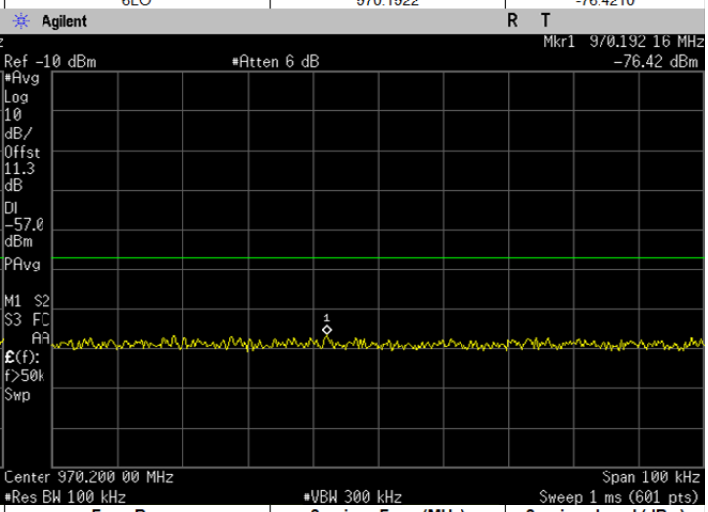
Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
4LO	646.7998	-76.5000



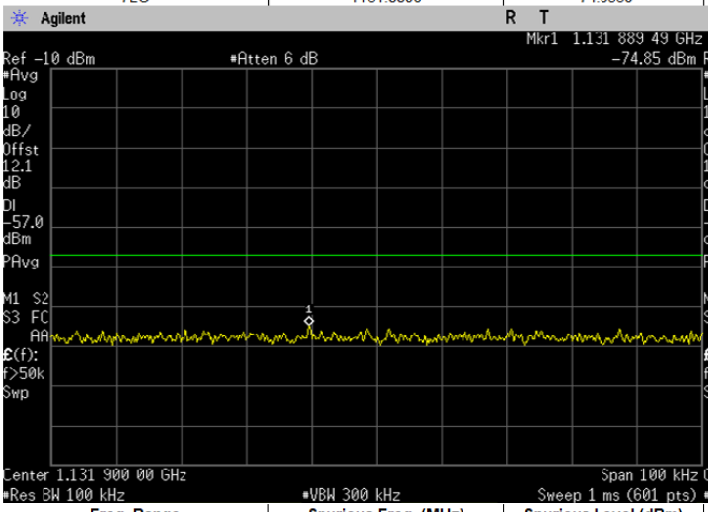
Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
5LO	808.5068	-76.2330



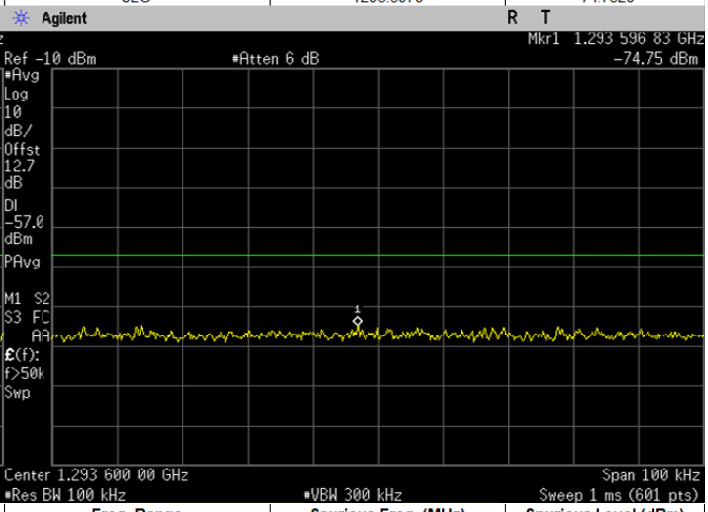
Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
6LO	970.1922	-76.4210



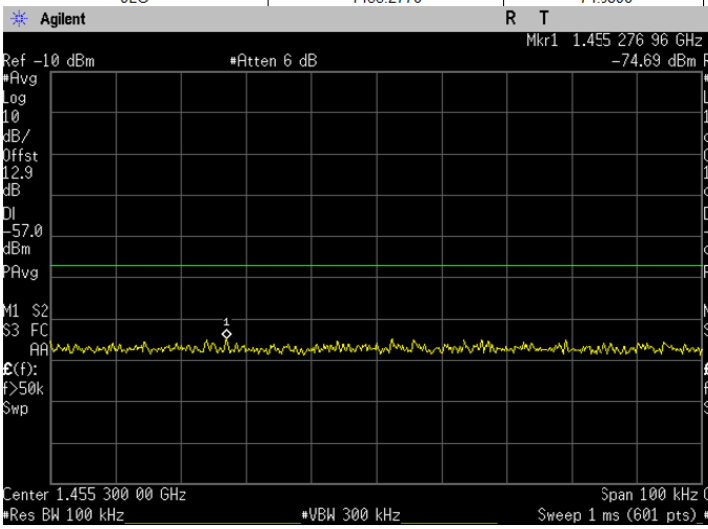
Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
7LO	1131.8890	74.3530



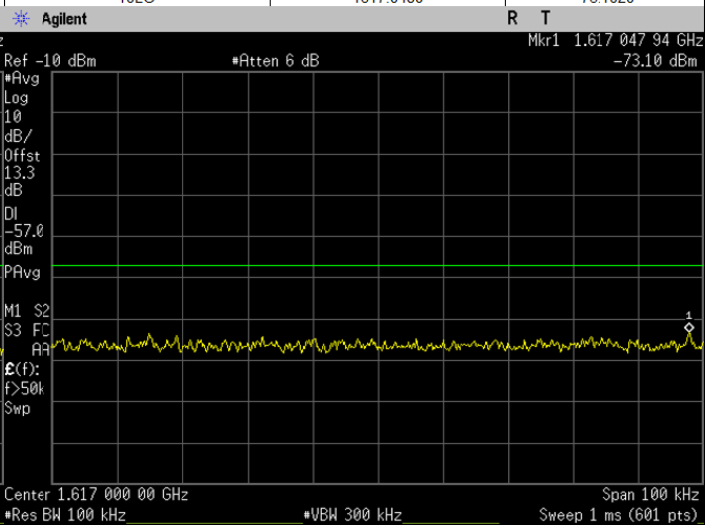
Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
8LO	1293.5970	74.7520



Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
9LO	1455.2770	-74.6890

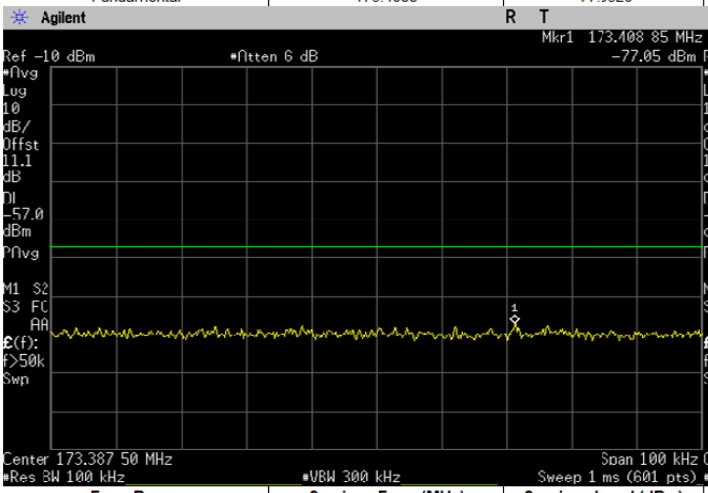


Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
10LO	1617.0480	-73.1020

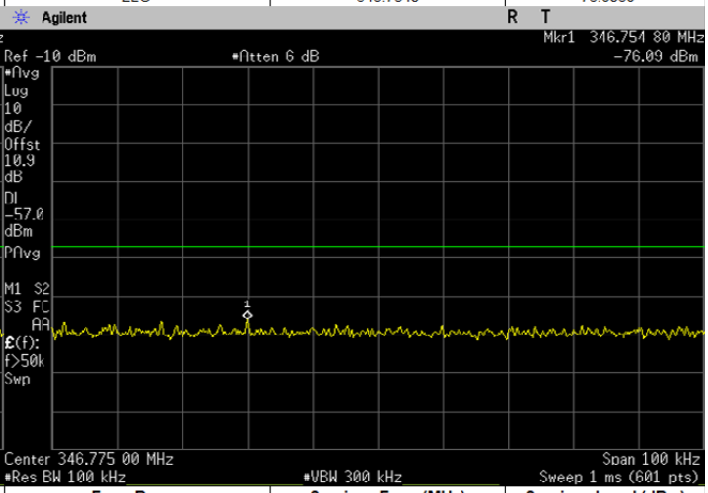


Channel Frequency : **173.39** **Charnel Spacing** : **25k**

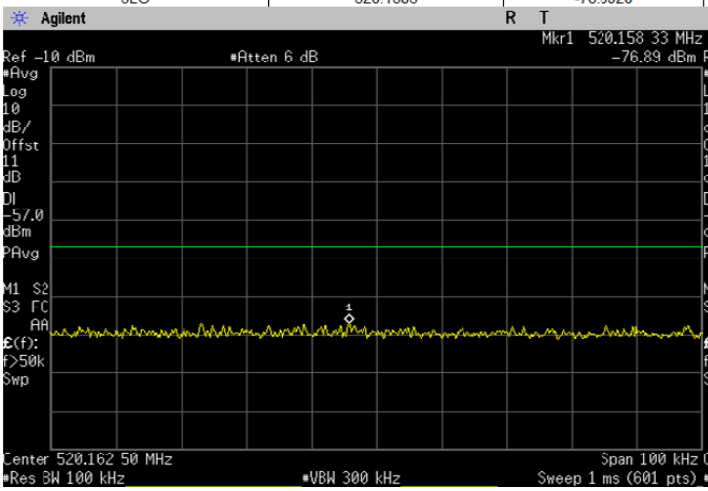
Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
Fundamental	173.4088	-77.0520



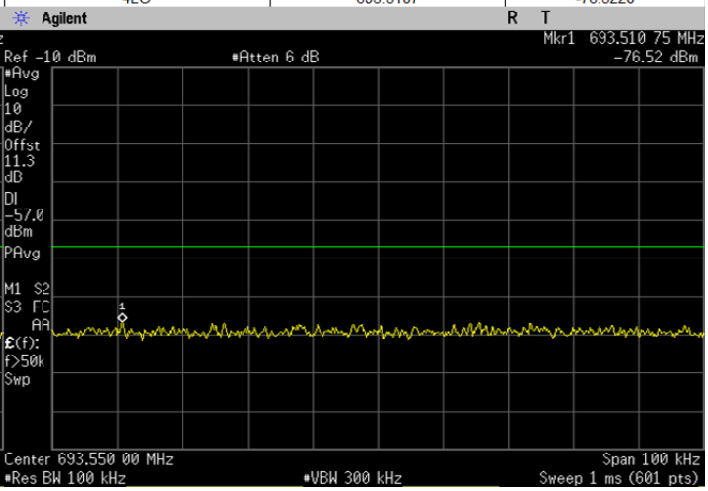
Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
2LO	346.7548	-76.0860



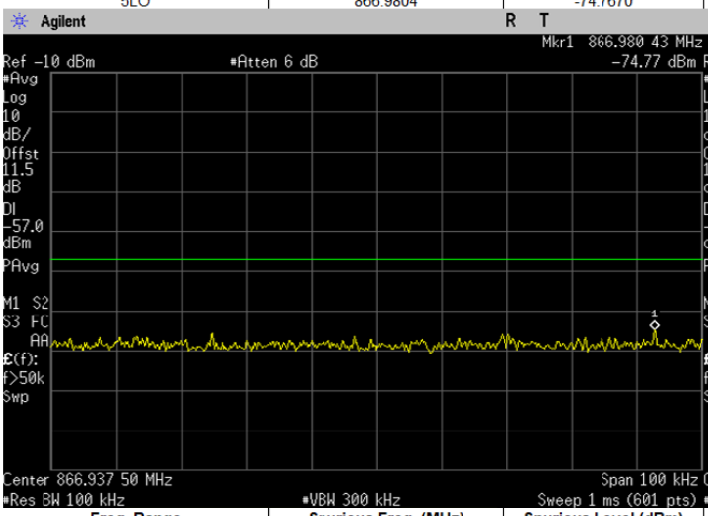
Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
3LO	520.1583	-76.3920



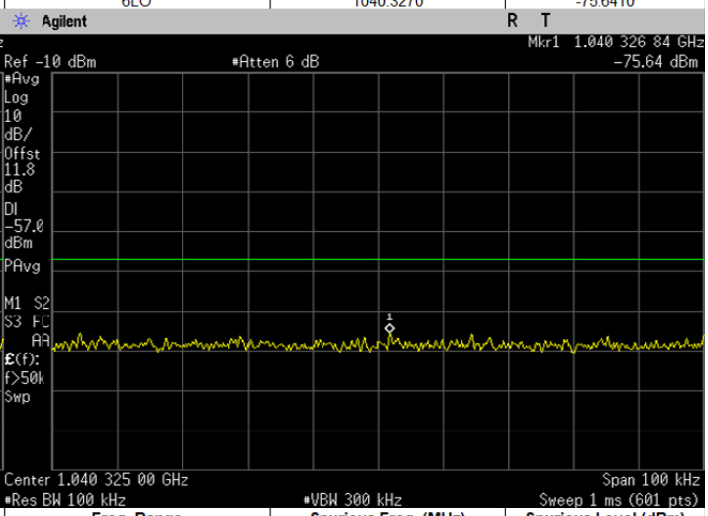
Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
4LO	693.5107	-76.5220



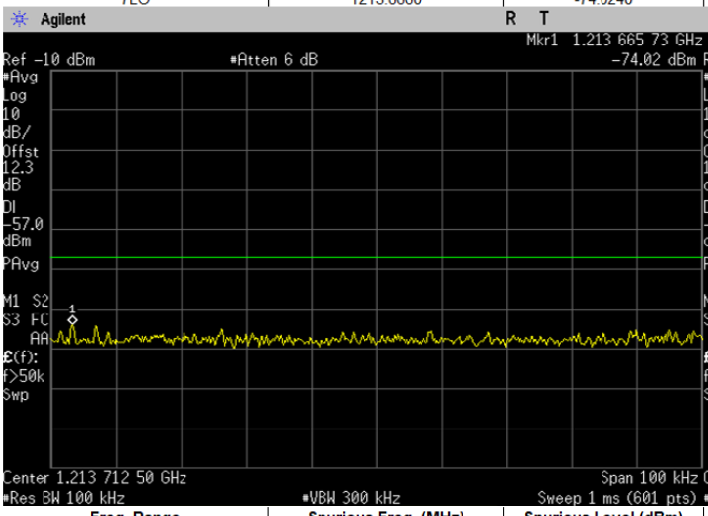
Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
5LO	866.9804	-74.7670



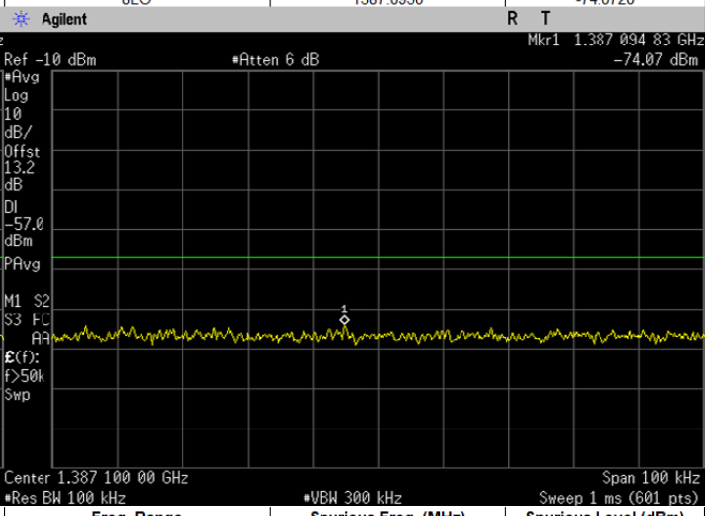
Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
6LO	1040.3270	-75.6410



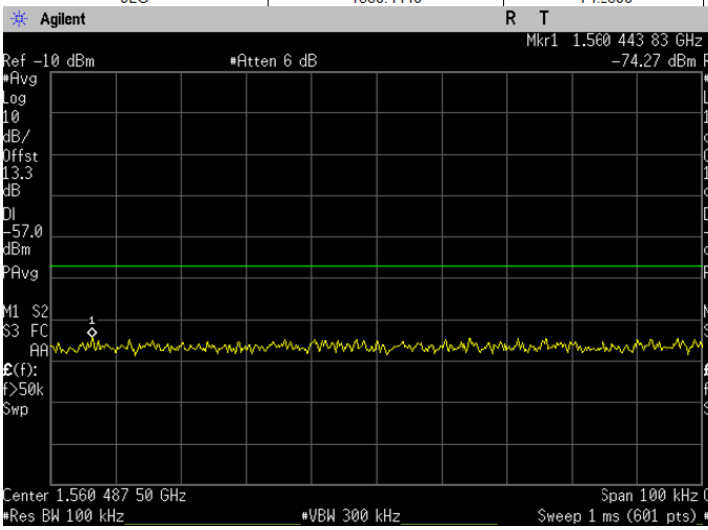
Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
7LO	1213.6660	-74.0240



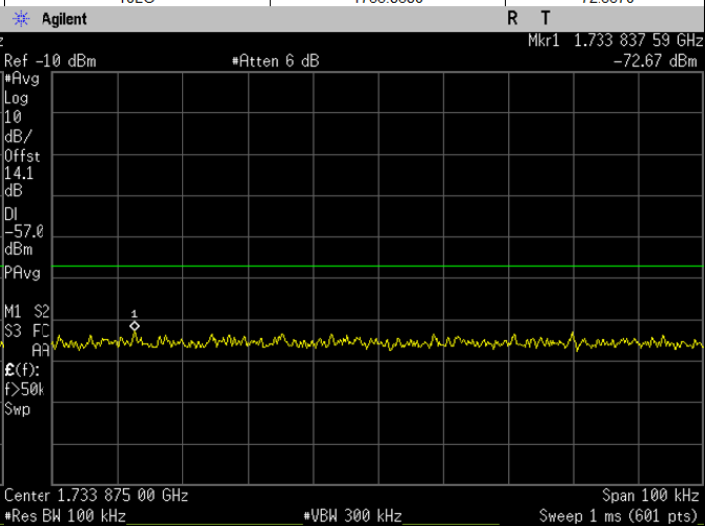
Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
8LO	1387.0950	-74.0720



Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
9LO	1560.4440	-74.2690



Freq. Range	Spurious Freq. (MHz)	Spurious Level (dBm)
10LO	1733.8380	-72.6670

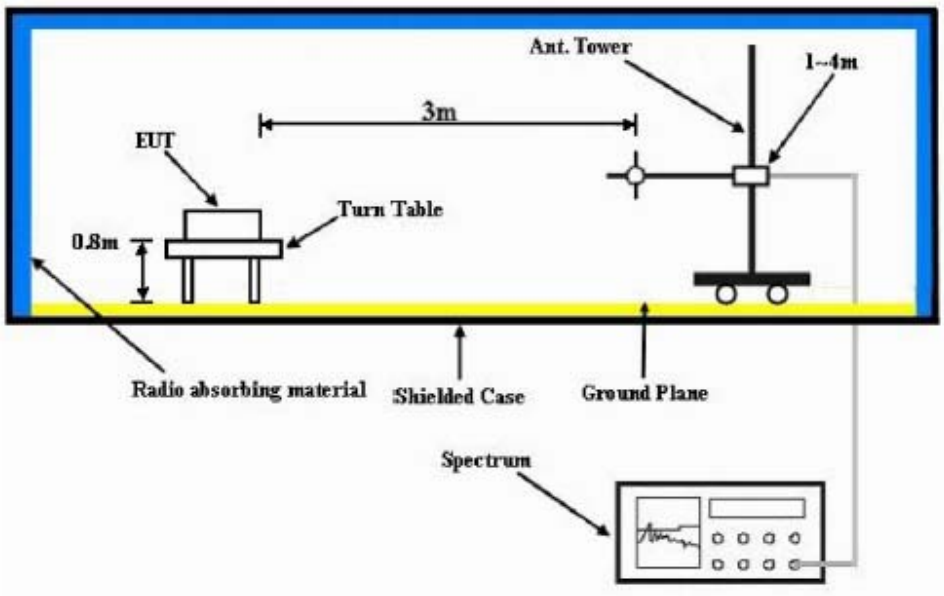


6.1.3. **Test Limit**

No spurious output appearing at the antenna terminals shall exceed -57dBm across 50Ω.

6.2 Receiver Radiated Spurious Output Power

6.2.1 Test Setup



1) The spectrum setting for scanning Radiated Emission below 1 GHz is RBW = 100 kHz, VBW = 300 kHz and above 1 GHz is RBW = 1MHz, VBW = 3MHz. Detector mode is positive peak.
2) In the semi-anechoic chamber, setup as illustrated above the EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
3) The substitution antenna is substituted for EUT at the same position and signals generator (S.G) export the CW signal to the substitution antenna via a TX cable. The receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum radiation power. Record the power level of maximum radiation power from spectrum. So, the measured substitution value = Ref level of S.G + TX cables loss – Substituted Antenna Gain.
4) Final Radiated Spurious Emission = “Read Value” + Measured substitution value.

6.2.2 Test Result

Test: SAC Receiver Radiated Emission
Model#: AAH87JDF9JA2AN S/N: 278TVZ3108 EMC SR ID#: 20216-EMC-00024
Battery: PMNN4080AR Accessory: PMAD4014A
Test Channel: RX Analog Test Frequency: 138.0125 MHz 12.5 kHz 6.00 Watt(s)/Max Power Test Standard: ANSI C63.4-2014

Radiated Emission tabular data

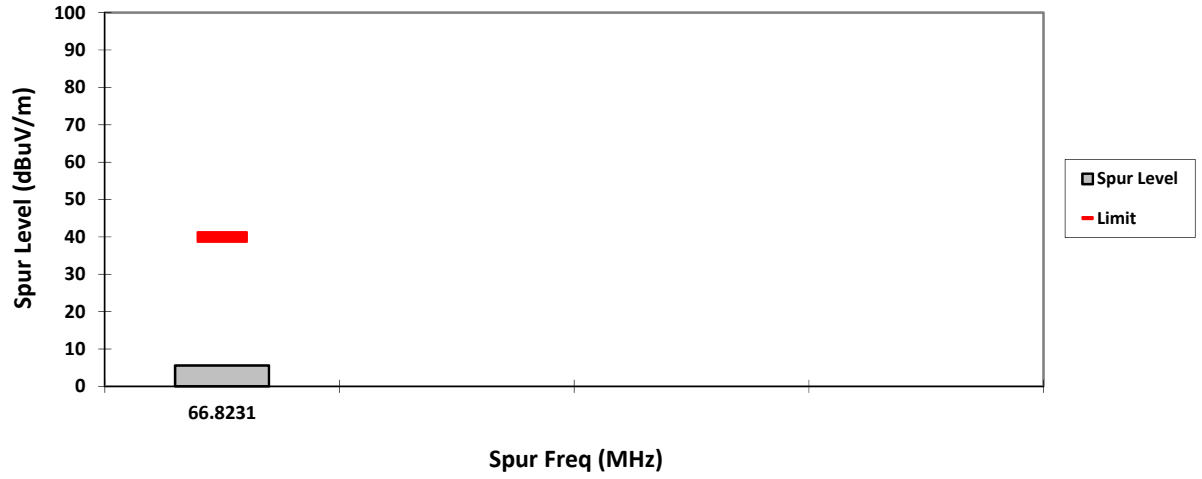
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
66.8231	5.5837 *	-	-	40.0000	-	-	34.4163	-	-	-
276.0250	-	11.0403 **	-	-	74.0000	-	-	62.9600	-	-
414.0375	-	9.1716 **	-	-	74.0000	-	-	64.8300	-	-
552.0500	-	15.0439 **	-	-	74.0000	-	-	58.9600	-	-
690.0625	-	19.8691 **	-	-	74.0000	-	-	54.1300	-	-
828.0750	-	21.1866 **	-	-	74.0000	-	-	52.8134	-	-
Horizontal Radiated Emission Result										
67.0828	5.5849 *	-	-	40.0000	-	-	34.4151	-	-	-
276.0250	-	10.9917 **	-	-	74.0000	-	-	63.0100	-	-
414.0375	-	9.6013 **	-	-	74.0000	-	-	64.4000	-	-
552.0500	-	12.2654 **	-	-	74.0000	-	-	61.7300	-	-
690.0625	-	20.1909 **	-	-	74.0000	-	-	53.8100	-	-
828.0750	-	20.7368 **	-	-	74.0000	-	-	53.2632	-	-

Remarks: Pass Result	Marginal Result	Fail Result

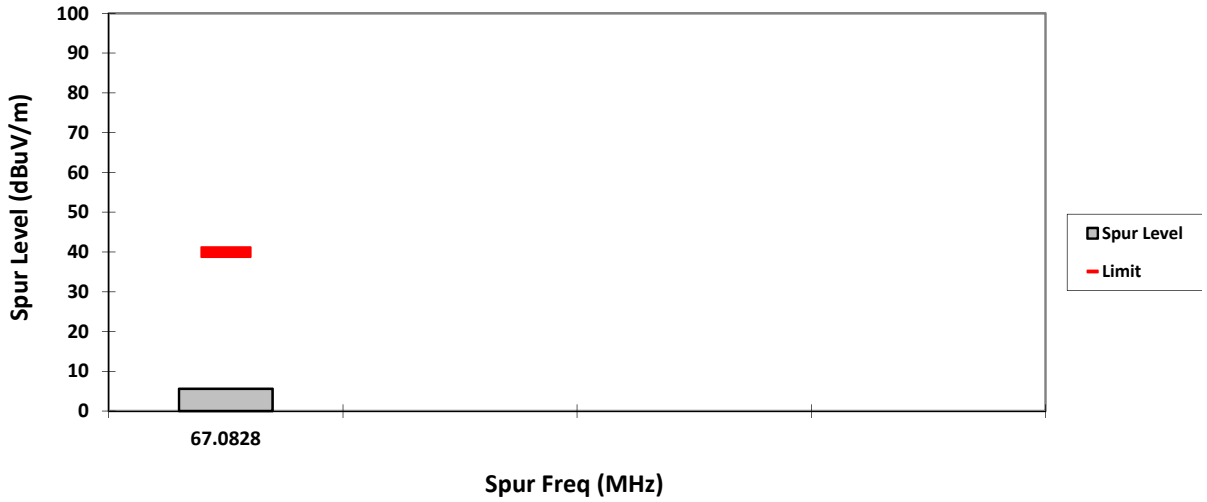
Temperature (degC): 22.8 Humidity (%): 69.3
Test Performed by: Nazrin&Qawiman Test Date: Wed, Feb 12, 2020
System MU: 4.25 dB (30-1000MHz), 4.94 dB (1000-18000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.**

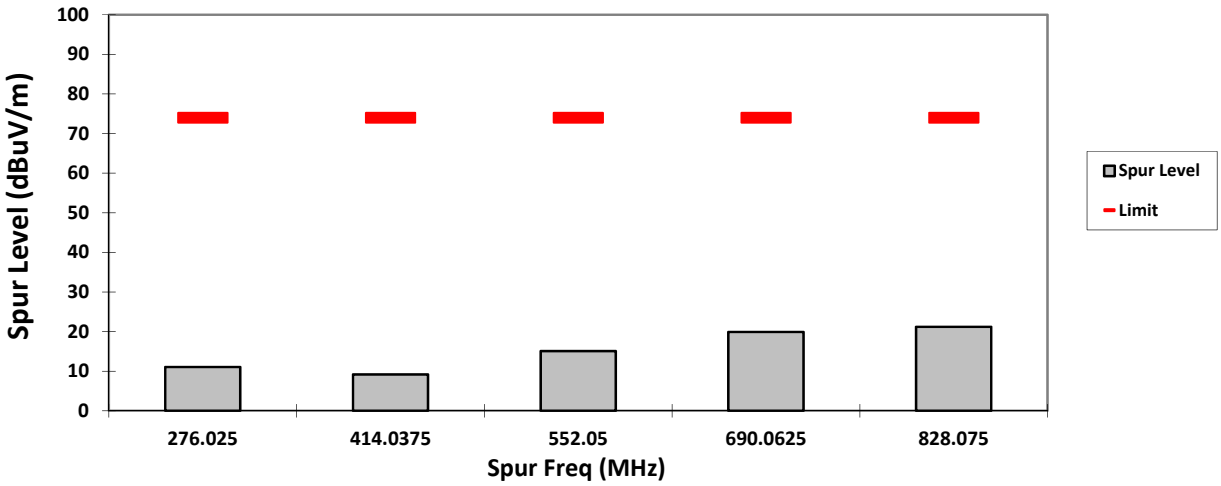
VERTICAL, QPK



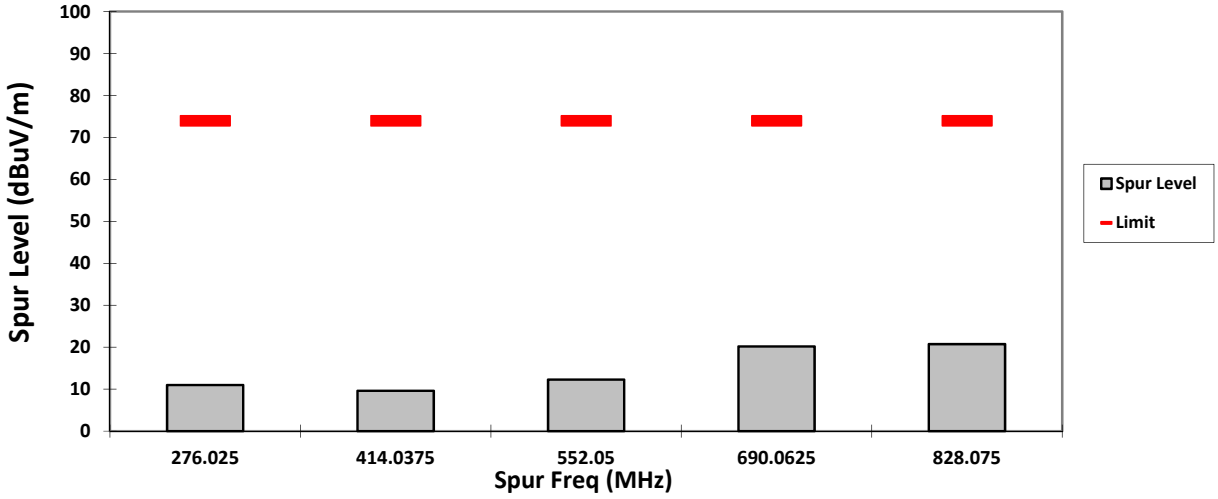
HORIZONTAL, QPK



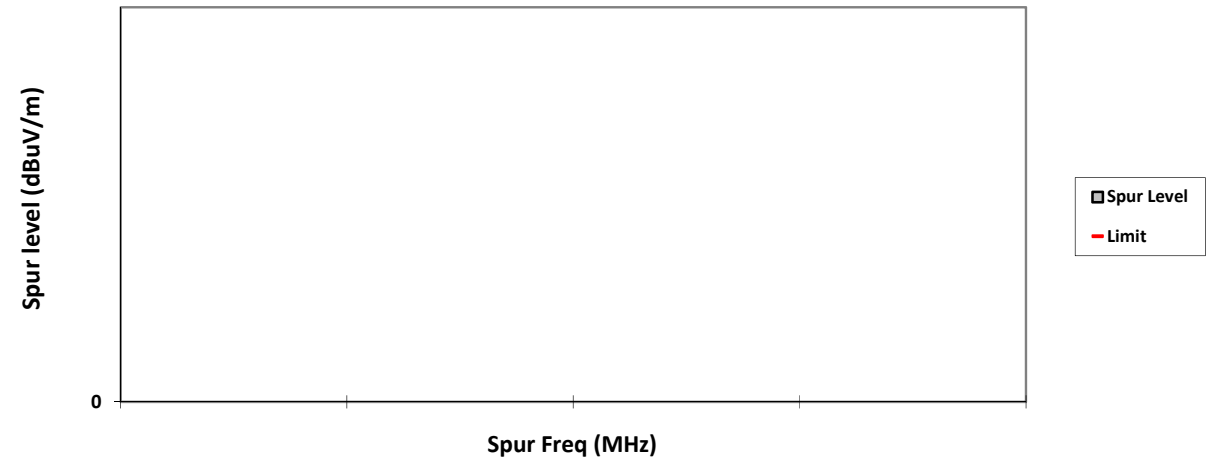
VERTICAL, PK



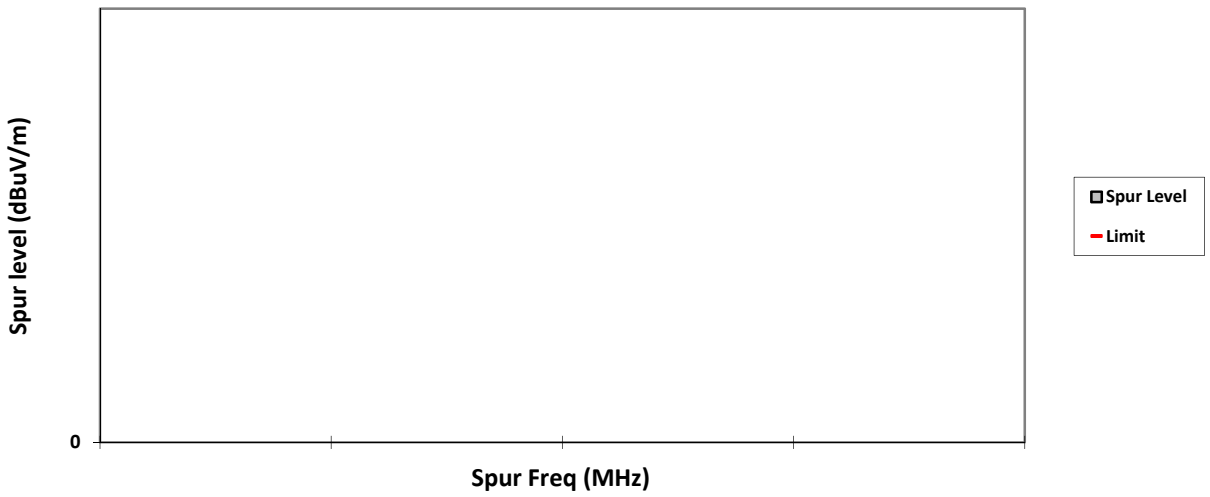
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: SAC Receiver Radiated Emission
Model#: AAH87JDF9JA2AN S/N: 278TVZ3108 EMC SR ID#: 20216-EMC-00024
Battery: PMNN4080AR Accessory: PMAD4014A
Test Mode: RX Analog Test Frequency: 150.8125 MHz 12.5 kHz 6.00 Watt(s)/Max Power
Test Standard: ANSI C63.4-2014

Radiated Emission tabular data

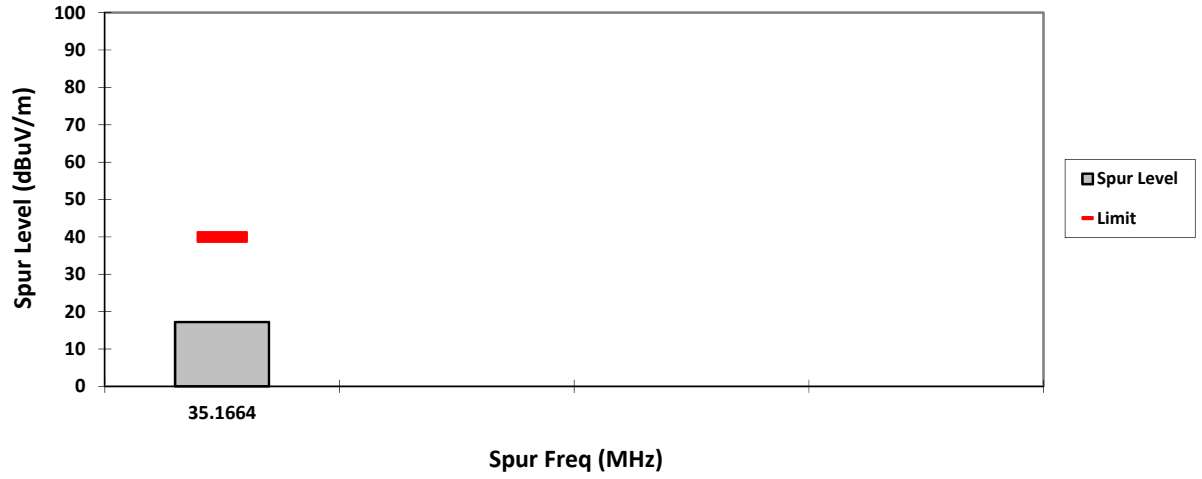
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
35.1664	17.2164 *	-	-	40.0000	-	-	22.7836	-	-	-
301.6250	-	14.1922 **	-	-	74.0000	-	-	59.8100	-	-
452.4375	-	10.6369 **	-	-	74.0000	-	-	63.3600	-	-
603.2500	-	16.7695 **	-	-	74.0000	-	-	57.2300	-	-
754.0625	-	20.2079 **	-	-	74.0000	-	-	53.7900	-	-
904.8750	-	20.1338 **	-	-	74.0000	-	-	53.8662	-	-
Horizontal Radiated Emission Result										
35.8098	17.0608 *	-	-	40.0000	-	-	22.9392	-	-	-
301.6250	-	12.5816 **	-	-	74.0000	-	-	61.4200	-	-
452.4375	-	9.6089 **	-	-	74.0000	-	-	64.3900	-	-
603.2500	-	18.0351 **	-	-	74.0000	-	-	55.9600	-	-
754.0625	-	20.3970 **	-	-	74.0000	-	-	53.6000	-	-
904.8750	-	20.2315 **	-	-	74.0000	-	-	53.7685	-	-

Remarks: Pass Result	Marginal Result	Fail Result

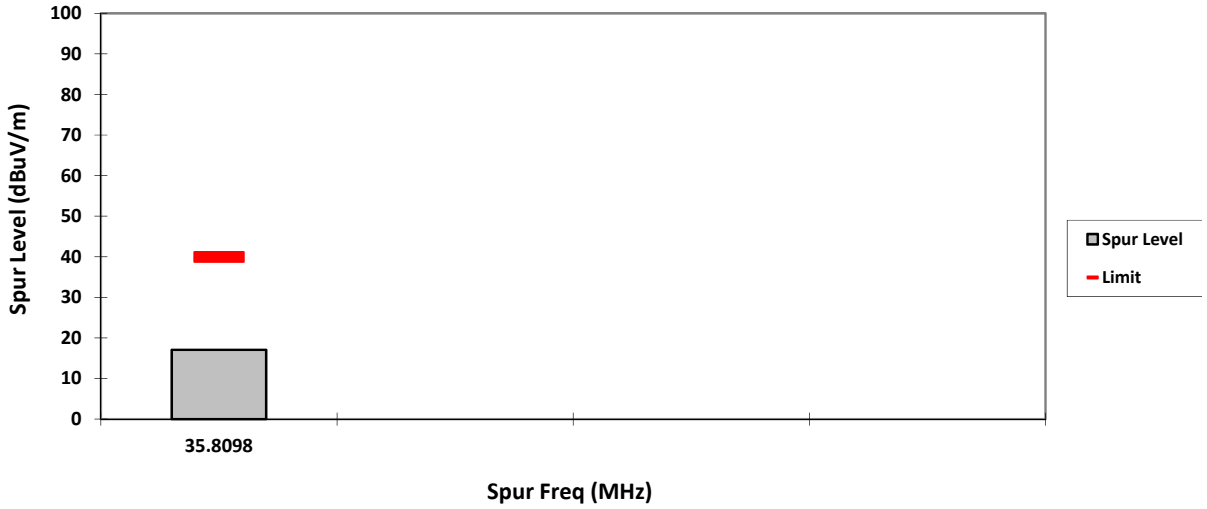
Temperature (degC): 22.8 **Humidity (%): 69.3**
Test Performed by: Nazrin&Qawiman **Test Date: Wed, Feb 12, 2020**
System MU: 4.25 dB (30-1000MHz), 4.94 dB (1000-18000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

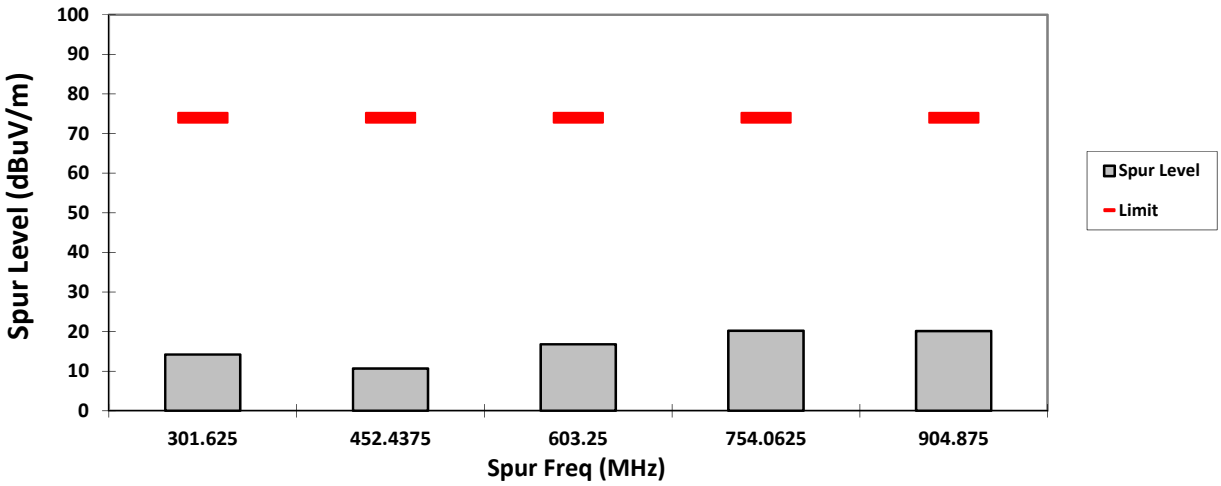
VERTICAL, QPK



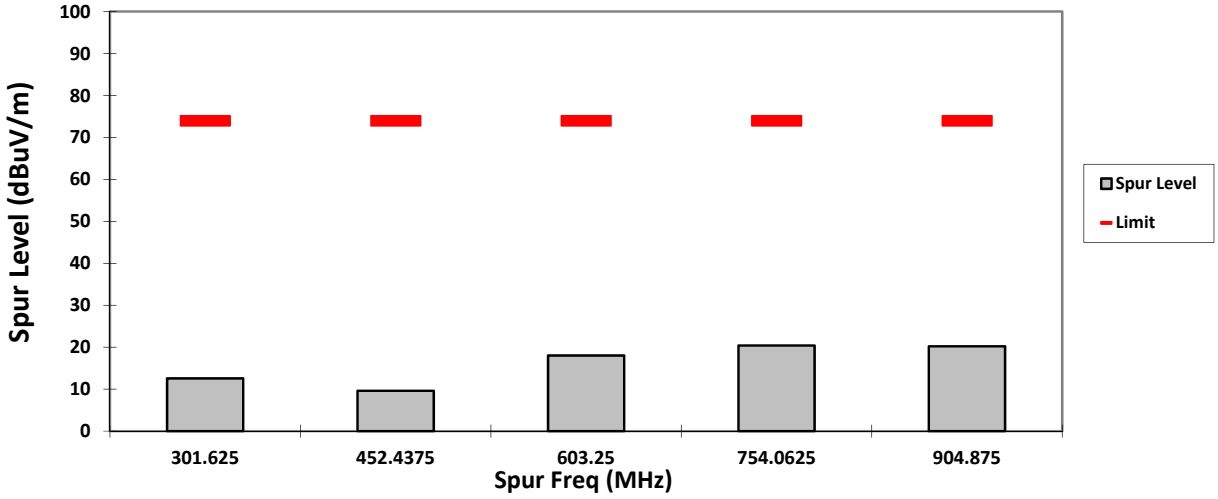
HORIZONTAL, QPK



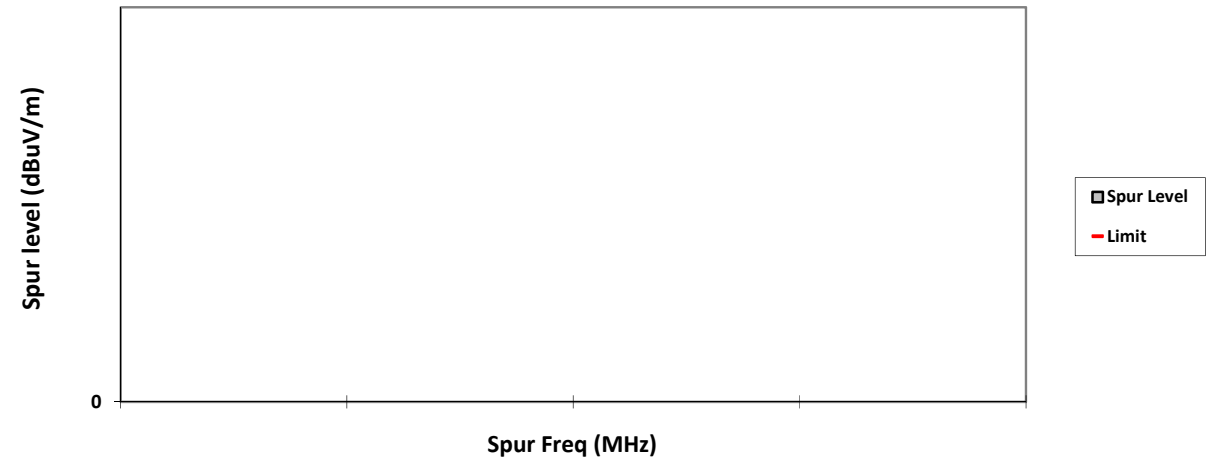
VERTICAL, PK



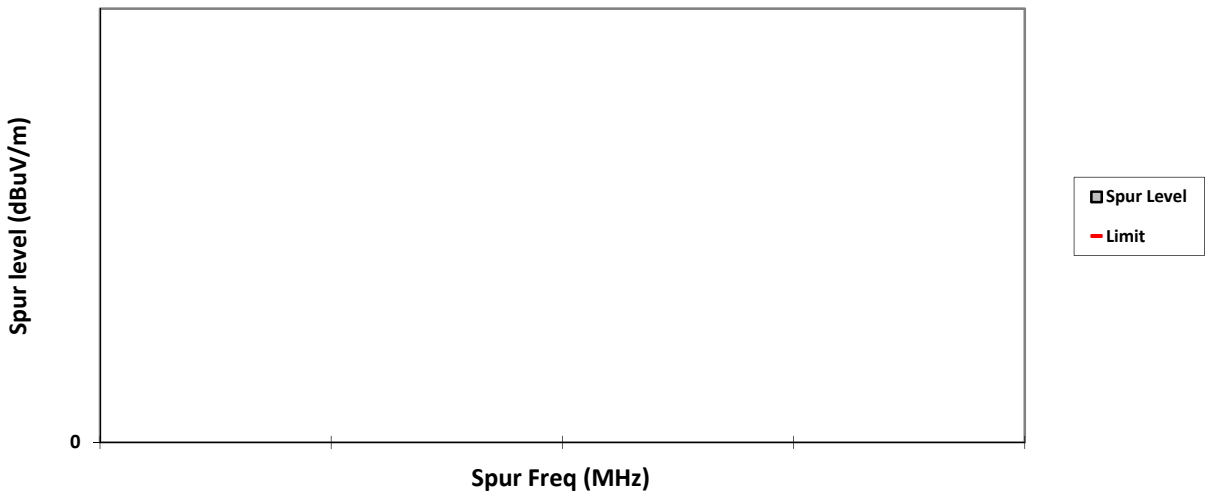
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: SAC Receiver Radiated Emission
Model#: AAH87JDF9JA2AN S/N: 278TVZ3108 EMC SR ID#: 20216-EMC-00024
Battery: PMNN4080AR Accessory: NAD6502AR
Test Mode: RX Analog Test Frequency: 161.7000 MHz 25 kHz 6.00 Watt(s)/Max Power
Test Standard: ANSI C63.4-2014

Radiated Emission tabular data

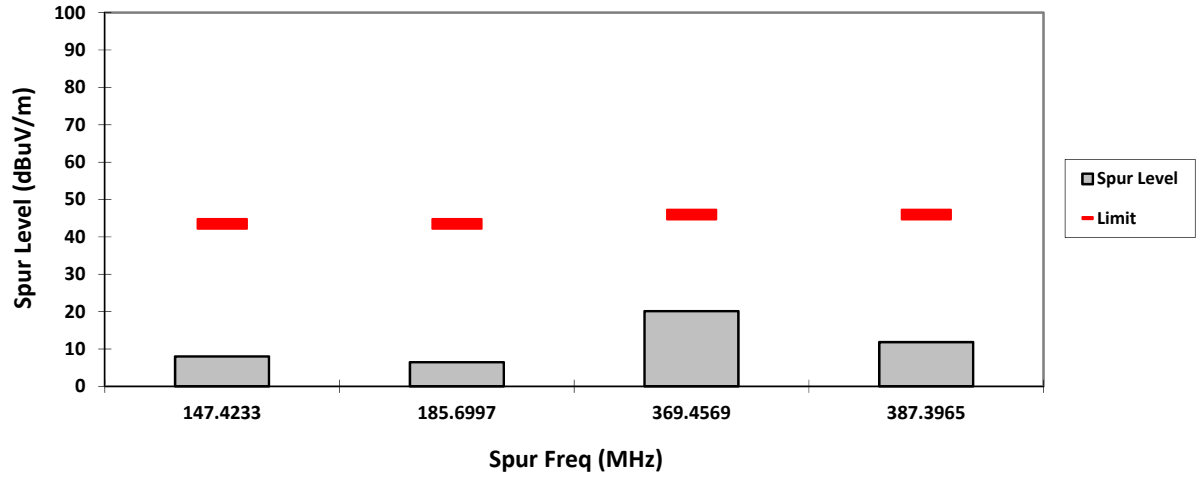
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
147.4233	8.0167 *	-	-	43.5000	-	-	35.4833	-	-	-
185.6997	6.4415 *	-	-	43.5000	-	-	37.0585	-	-	-
323.4000	-	12.4036 **	-	-	74.0000	-	-	61.6000	-	-
369.4569	20.1321 *	-	-	46.0000	-	-	25.8679	-	-	-
387.3965	11.8304 *	-	-	46.0000	-	-	34.1696	-	-	-
485.1000	-	8.9706 *	-	-	74.0000	-	-	65.0300	-	-
646.8000	-	19.3840 *	-	-	74.0000	-	-	54.6200	-	-
808.5000	-	20.2110 *	-	-	74.0000	-	-	53.7900	-	-
Horizontal Radiated Emission Result										
147.5152	7.9746 *	-	-	43.5000	-	-	35.5254	-	-	-
185.3371	6.4722 *	-	-	43.5000	-	-	37.0278	-	-	-
323.4000	-	12.1127 **	-	-	74.0000	-	-	61.8900	-	-
369.5598	11.6012 *	-	-	46.0000	-	-	34.3988	-	-	-
386.7092	11.7597 *	-	-	46.0000	-	-	34.2403	-	-	-
485.1000	-	8.9926 *	-	-	74.0000	-	-	65.0100	-	-
646.8000	-	18.9961 *	-	-	74.0000	-	-	55.0000	-	-
808.5000	-	20.0558 *	-	-	74.0000	-	-	53.9400	-	-

Remarks: Pass Result	Marginal Result	Fail Result

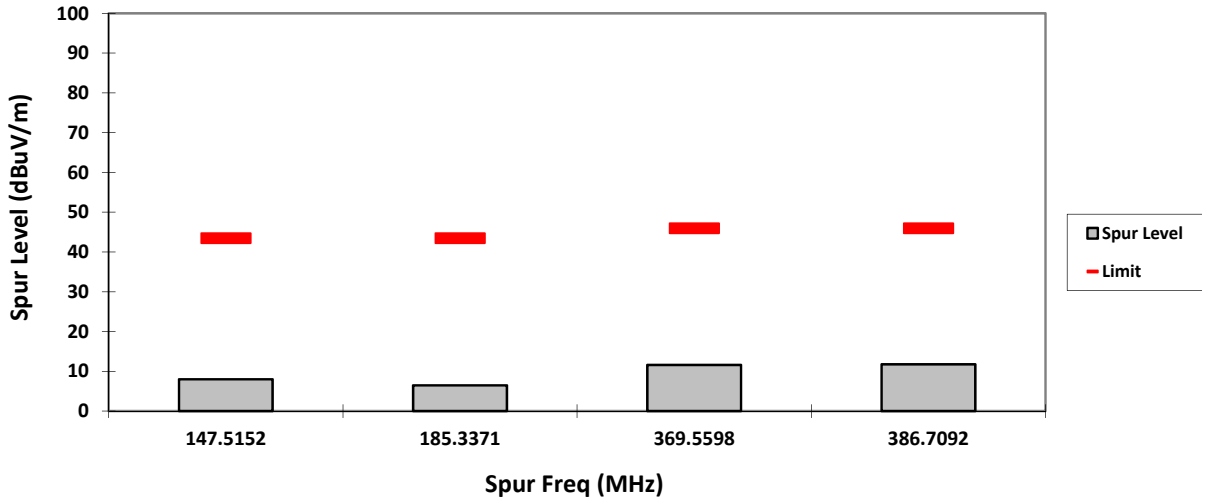
Temperature (degC): 22.8 **Humidity (%): 69.3**
Test Performed by: Azil&Qawiman **Test Date: Wed, Feb 12, 2020**
System MU: 4.25 dB (30-1000MHz), 4.94 dB (1000-18000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.**

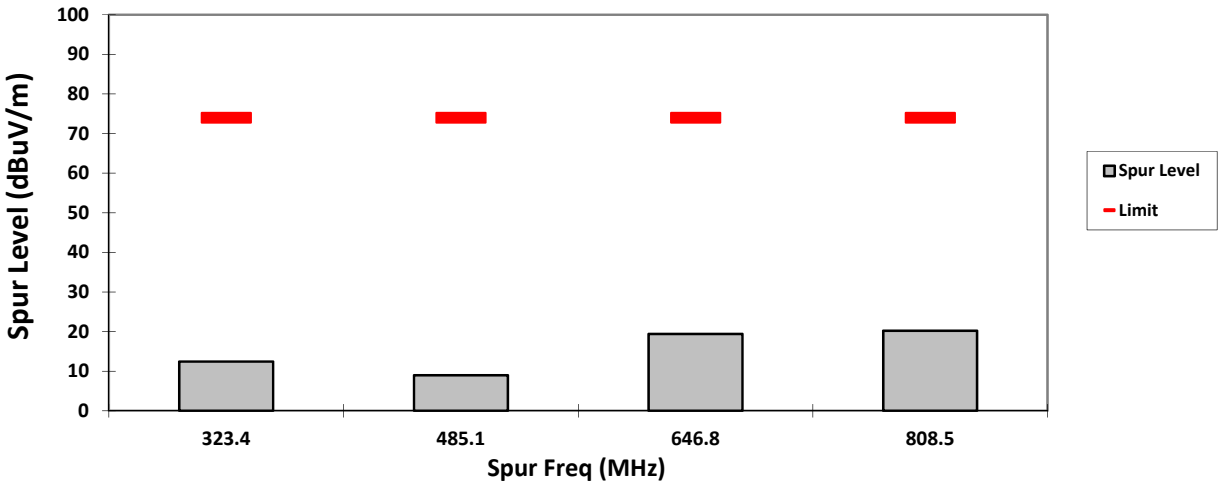
VERTICAL, QPK



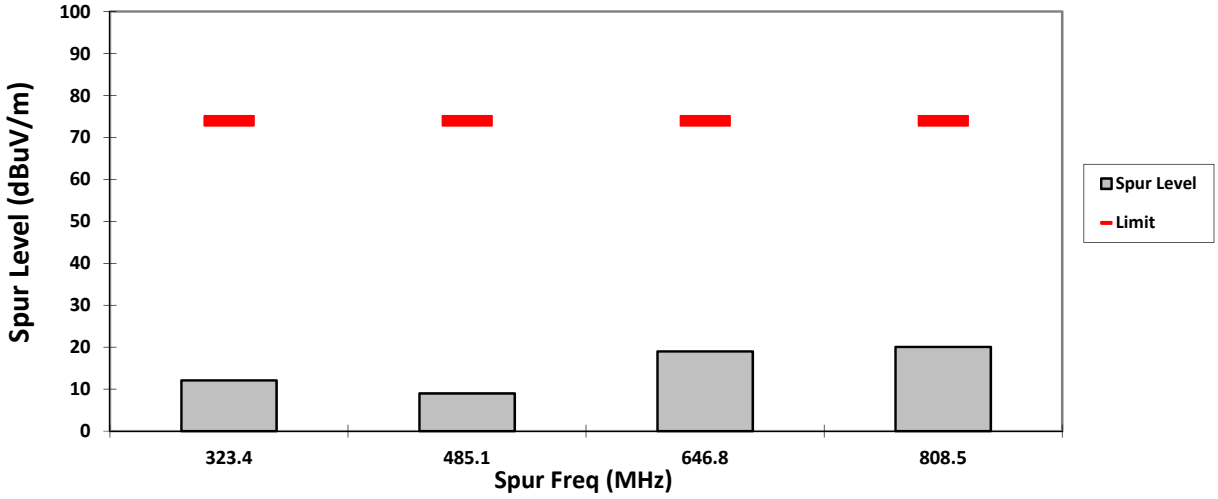
HORIZONTAL, QPK



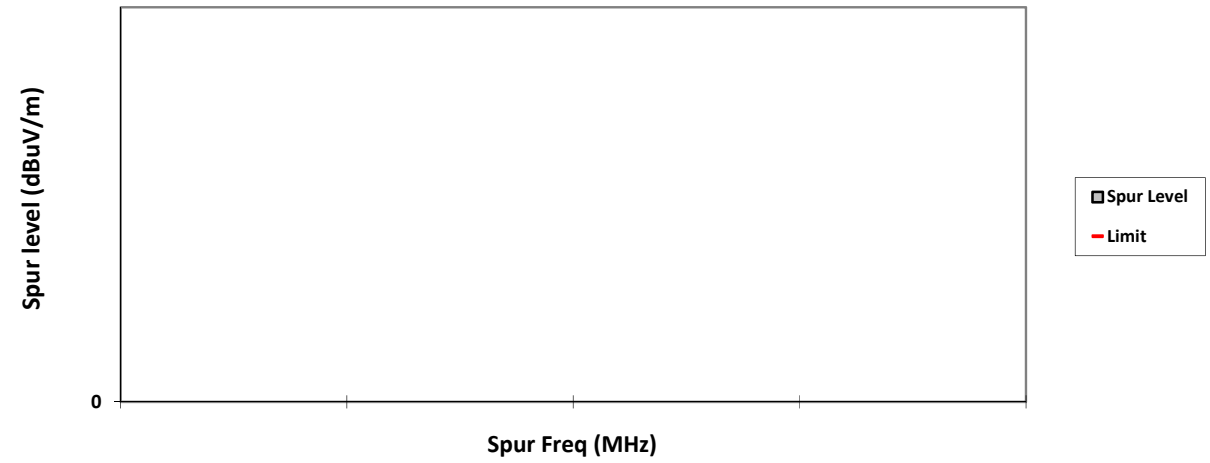
VERTICAL, PK



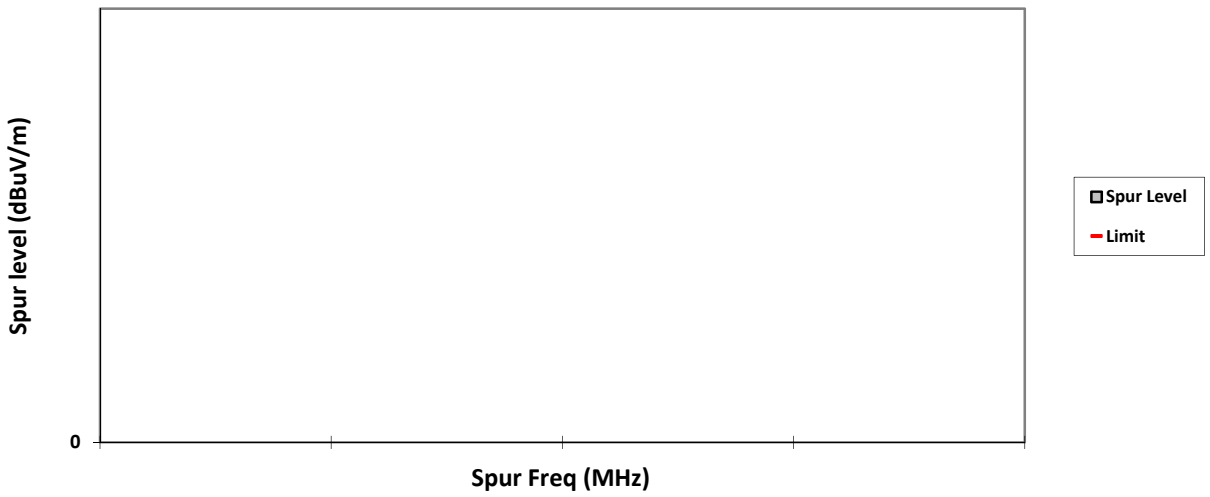
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: SAC Receiver Radiated Emission
Model#: AAH87JDF9JA2AN S/N: 278TVZ3108 EMC SR ID#: 20216-EMC-00024
Battery: PMNN4080AR Accessory: NAD6502AR
Test Mode: RX Analog Test Frequency: 173.3875 MHz 25 kHz 6.00 Watt(s)/Max Power
Test Standard: ANSI C63.4-2014

Radiated Emission tabular data

Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
346.7750	-	11.6990 **	-	-	74.0000	-	-	62.3000	-	-
520.1625	-	10.8761 **	-	-	74.0000	-	-	63.1200	-	-
693.5500	-	20.9960 **	-	-	74.0000	-	-	53.0000	-	-
866.9375	-	21.2877 **	-	-	74.0000	-	-	52.7100	-	-
1040.325	-	36.3515 **	-	-	74.0000	-	-	37.6485	-	-
1213.7125	-	35.9594 **	-	-	74.0000	-	-	38.0406	-	-
Horizontal Radiated Emission Result										
346.7750	-	13.6760 **	-	-	74.0000	-	-	60.3200	-	-
520.1625	-	12.0619 **	-	-	74.0000	-	-	61.9400	-	-
693.5500	-	20.2697 **	-	-	74.0000	-	-	53.7300	-	-
866.9375	-	19.6871 **	-	-	74.0000	-	-	54.3100	-	-
1040.325	-	35.0638 **	-	-	74.0000	-	-	38.9362	-	-
1213.7125	-	35.6690 **	-	-	74.0000	-	-	38.331	-	-

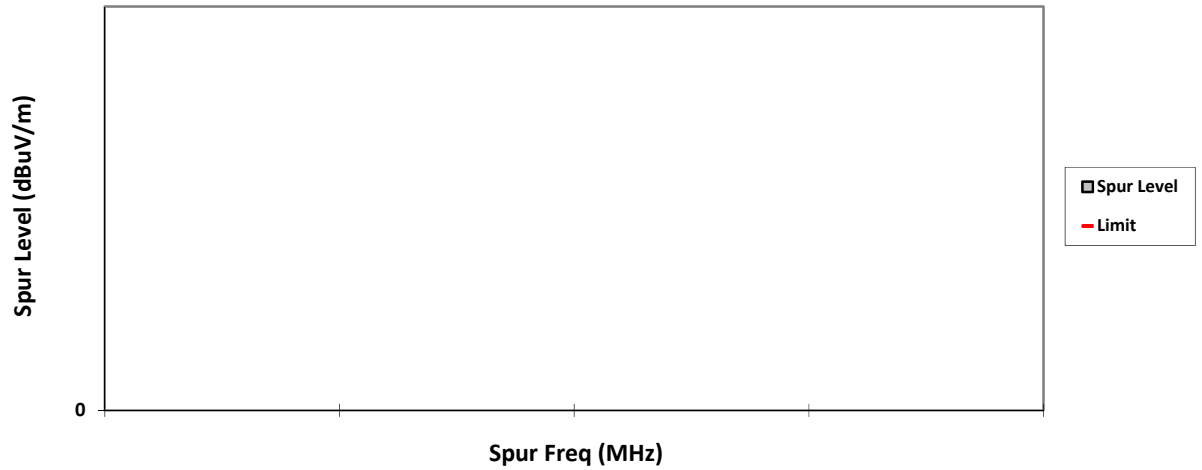
Remarks: Pass Result	Marginal Result	Fail Result

Temperature (degC): 22.8 **Humidity (%): 69.3**
Test Performed by: Azil&Qawiman **Test Date: Wed, Feb 12, 2020**
System MU: 4.25 dB (30-1000MHz), 4.94 dB (1000-18000MHz)

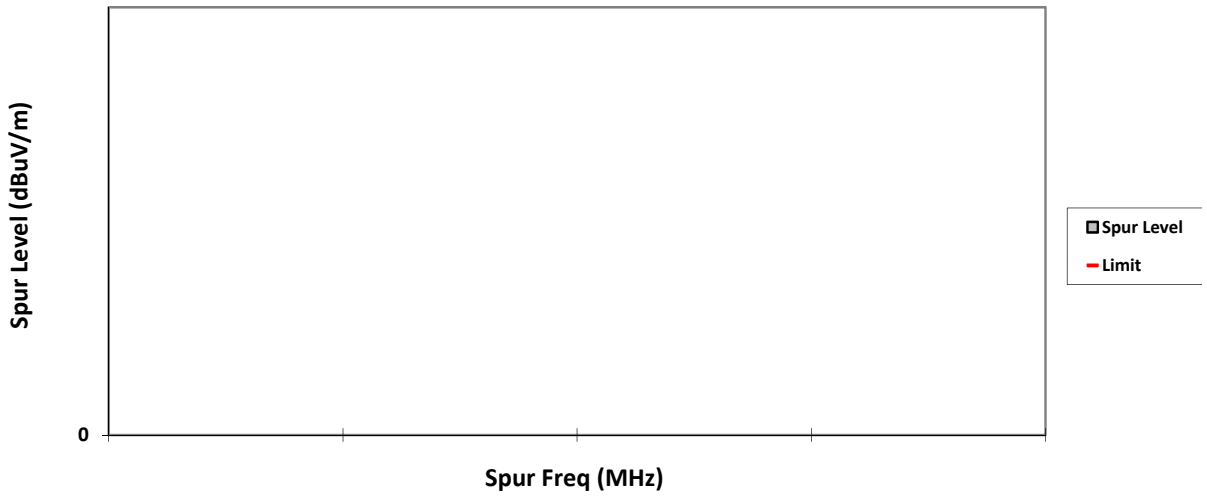
Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.**

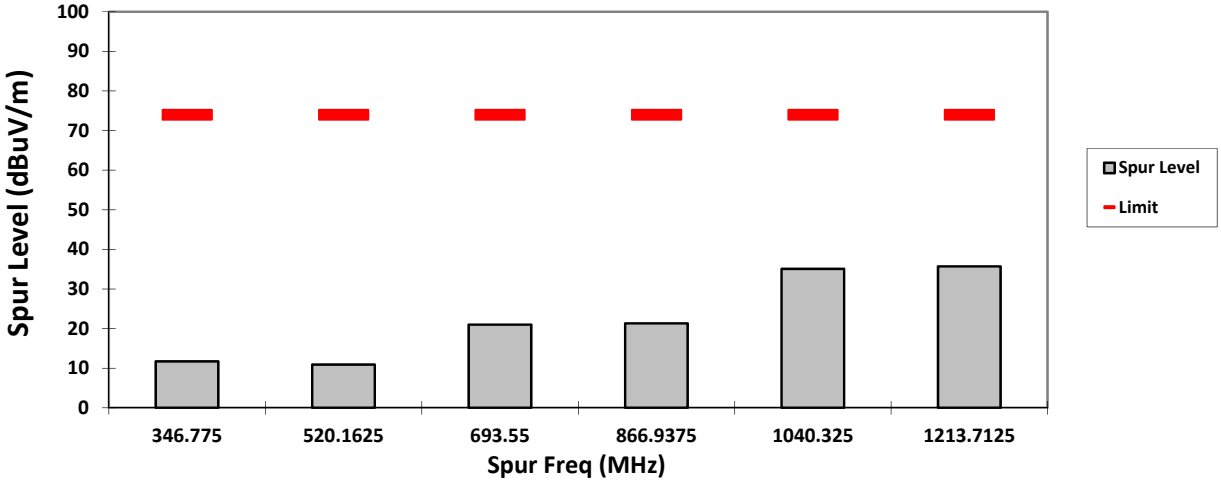
VERTICAL, QPK



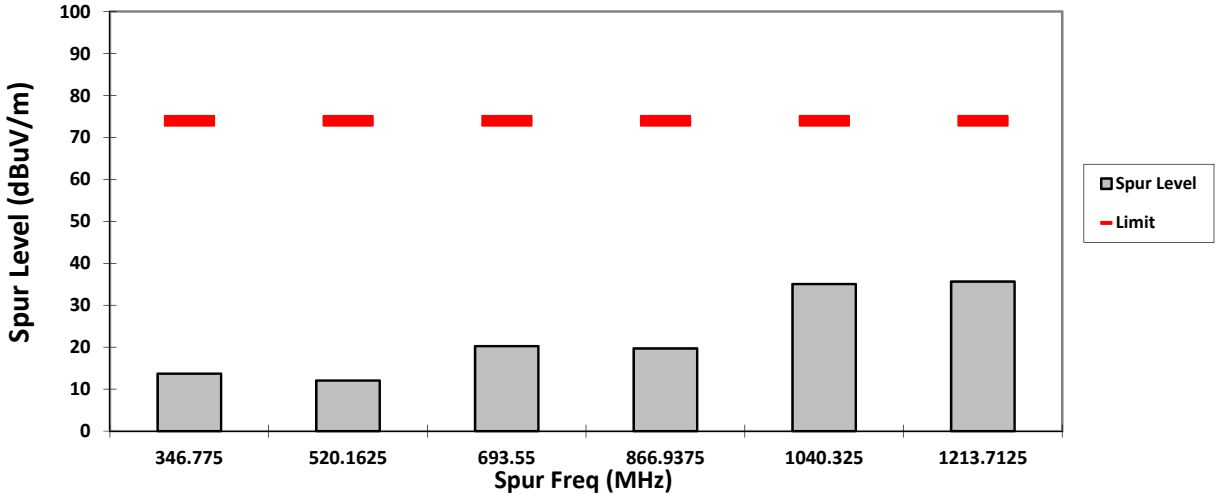
HORIZONTAL, QPK



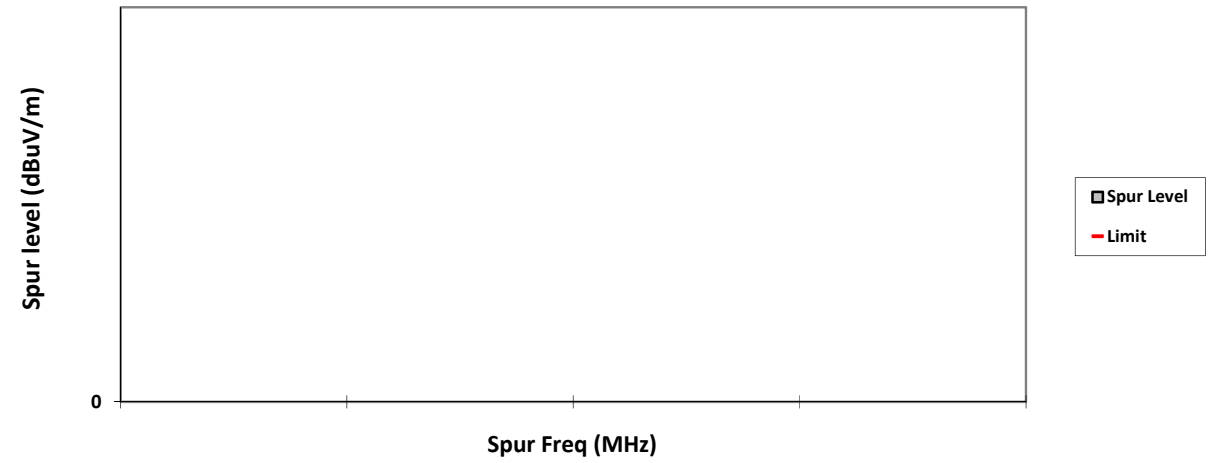
VERTICAL, PK



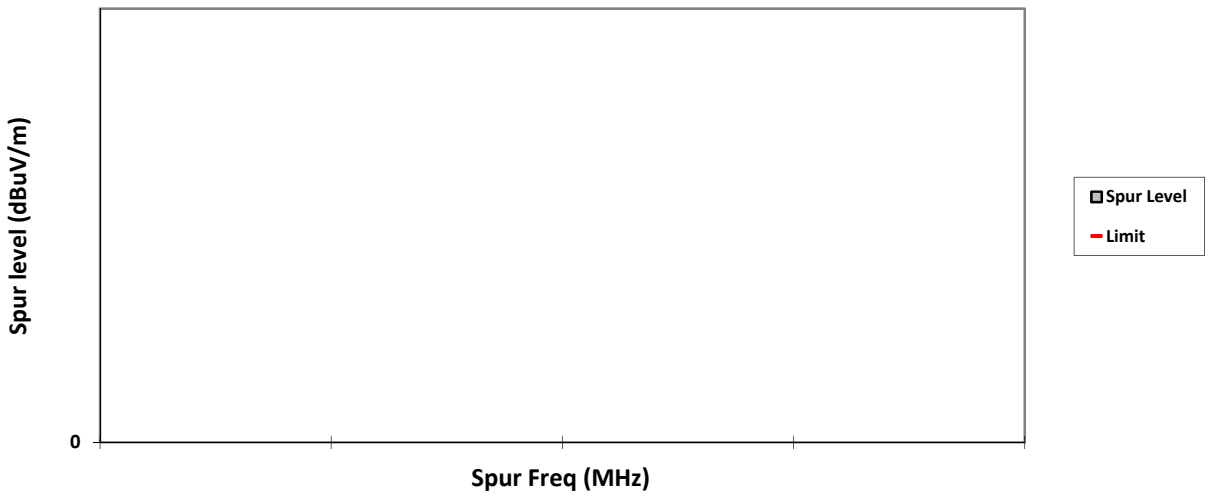
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



6.2.3 Test Limit

(a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

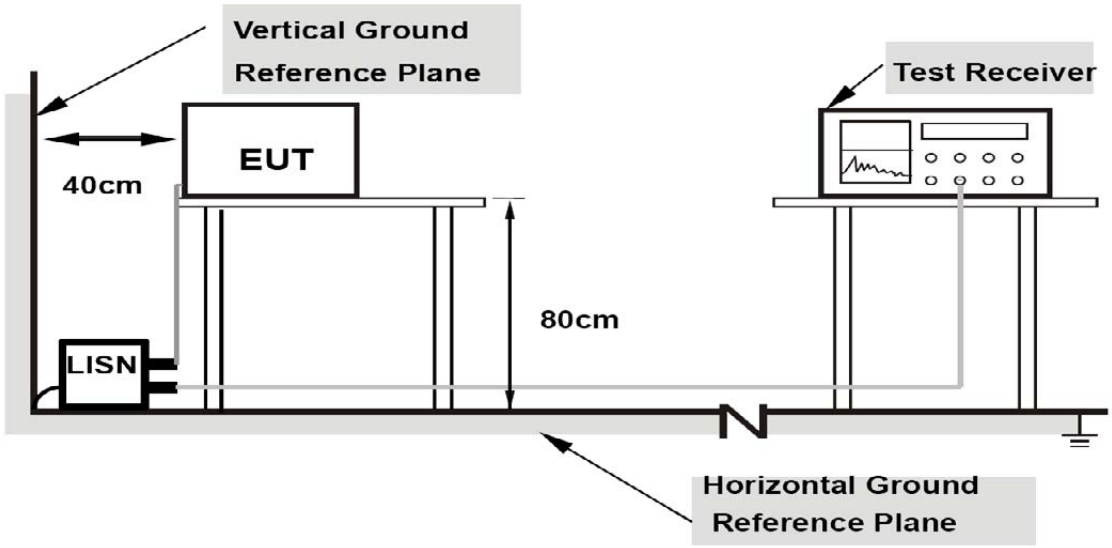
Frequency of emission (MHz)	Field strength (microvolts/meter)
30-88	100
88-216	150
216-960	200
Above 960	500

(b) The field strength of radiated emissions from a Class A digital device, as determined at a distance of 10 meters, shall not exceed the following:

Frequency of emission (MHz)	Field strength (microvolts/meter)
30-88	90
88-216	150
216-960	210
Above 960	300

6.3 AC Power Line ConductedSpur Emissions

6.3.1 Test Setup



1) Tests were conducted for both Receive and Transmit Mode of the EUT.
2) The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50uH of coupling impedance for the measuring instrument.
3) Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
4) The frequency range from 150 kHz to 30MHz was measured.

6.3.2 Test Result

NA → **Not Applicable**

6.3.3 Test Limits

For AC Power Line Conducted Test Limit can be Class A or B depends on product classification.

Limits for conducted disturbance at the mains ports of class A ITE

Frequency range MHz	Limits dB(µV)	
	Quasi-peak	Average
0,15 to 0,50	79	66
0,50 to 30	73	60
NOTE The lower limit shall apply at the transition frequency.		

Limits for conducted disturbance at the mains ports of class B ITE

Frequency range MHz	Limits dB(µV)	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50
NOTE 1 The lower limit shall apply at the transition frequencies. NOTE 2 The limit decreases linearly with the logarithm of the frequency in the range 0,15 MHz to 0,50 MHz.		

~ End of Report ~