

JAPAN MIC

Radio Test Report

FOR

Applicant: unitech Electronics Co., Ltd.
5F, No.136, Ln.235, Baoqiao Rd., Xindian Dist., New Taipei City 231
Taiwan

Product Name: Wireless UHF RFID Pocket Reader

Brand Name: unitech

Model No.: RP901

Model Difference: N/A

Report Number: E2/2018/80004

Issue Date: Sep. 14, 2018

Date of Test: Aug. 16, 2018~ Sep. 07, 2018

Date of EUT Received: Aug. 16, 2018

Place of Testing No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333

Test Result PASS

Classification of Specified Radio Equipment Article 2 Clause 1 Item 19

We hereby declare that:

The data presented with this application to be true and correct; and That our testing equipment is regularly serviced and properly calibrated; and We agree to maintain records of data for a minimum of ten (10) years in our laboratory for immediate presentation upon request by Telefication B.V..

Measurement was conducted by the following test method:

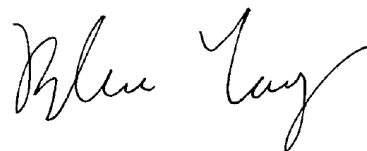
the test method of Ordinance Concerning Technical Regulations
Conformity Certification etc. of Specified Radio Equipment in Annex 1, the Ministry of Internal Affairs and Communication notification in Annex 43 of Article 88, Paragraph 1 or the test method more than equivalent.

Tested By:



Vito Pei / Engineer

Approved By:



Blue Yang / Supervisor

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Revision History

Report Number	Revision	Description	Effectuated Page	Issue Date	Revised By
E2/2018/80004	Rev.00	Initial creation of document	All	Sep. 14, 2018	Stefanie Yu / Clerk

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 General information

General:

Product Name:	Wireless UHF RFID Pocket Reader	
Brand Name:	unitech	
Model No.:	RP901	
Model difference:	N/A	
Hardware Version:	N/A	
Software Version:	N/A	
Power Supply:	3.7Vdc from Power Li-on Battery	
	Battery:	Model No.: 1400-900038G Supplier: Helix Co.Ltd.

Type, frequency of
transmittable radio wave
and rated output

Bluetooth GFSK include AFH	F1D 2441MHz 0.000044 ~ 0.000167W/MHz
Bluetooth $\pi/4$ -DQPSK include AFH	G1D 2441MHz 0.000015 ~ 0.000054W/MHz
Bluetooth 8DPSK include AFH	G1D 2441MHz 0.000002 ~ 0.000006W/MHz

Antenna Designation

Antenna Type	Part Number	Supplier	Polarization (H or V)	Peak Gain (dBi)
Multilayer Ceramic	RFANT5220110A0T	N/A	H+V	2.66

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1.2 Assemble

Two housings are combined inaccessible by 2 special screws. The plastic housing will be destroyed when trying to open.



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2 DESCRIPTION OF TEST

				Limit	Result	Note	
Environment of Test Room	Temperature	°C	24		$5 \leq x \leq 35$	PASS	
	Humidity	%	63		$45 \leq x \leq 85$	PASS	
Peak Antenna Gain		dBi	2.66		-----	-----	
Number of hopping channel		-----	79	20	-----	-----	
Rated output		mW/MHz	0.044	0.167	≤ 3 mW/MHz	PASS	
Rated output		dBm/MHz	-13.56	-7.78	≤ 4.77 dBm/MHz	PASS	
E.I.R.P.		dBm/MHz	-10.90	-5.12	≤ 6.91 dBm/MHz	PASS	
Tested Circuit Insertion Loss		dB	0.80	0.80	-----	-----	
Input Voltage		VDC	3.70		-----	-----	
Packet Type (Mode)		-----	DH5		-----	-----	
Frequency equal to the transmission rate of the modulation signal		MHz	1		-----	-----	
Test Category		2.4GHz Band Wideband Low-Power Data Communication System (Bluetooth GFSK include AFH)					
The reason why test are performed only rated voltage							
When the input voltage to receiver RF circuit varies below $\pm 1\%$ as the input voltage from the external power supply to the receiver varies $\pm 10\%$ (excluding power supply).							

				Limit	Result	Note	
Environment of Test Room	Temperature	°C	24		$5 \leq x \leq 35$	PASS	
	Humidity	%	63		$45 \leq x \leq 85$	PASS	
Peak Antenna Gain		dBi	2.66		-----	-----	
Number of hopping channel		-----	79	20	-----	-----	
Rated output		mW/MHz	0.015	0.054	≤ 3 mW/MHz	PASS	
Rated output		dBm/MHz	-18.38	-12.67	≤ 4.77 dBm/MHz	PASS	
E.I.R.P.		dBm/MHz	-15.72	-10.01	≤ 6.91 dBm/MHz	PASS	
Tested Circuit Insertion Loss		dB	0.80	0.80	-----	-----	
Input Voltage		VDC	3.70		-----	-----	
Packet Type (Mode)		-----	2DH5		-----	-----	
Frequency equal to the transmission rate of the modulation signal		MHz	1		-----	-----	
Test Category		2.4GHz Band Wideband Low-Power Data Communication System (Bluetooth $\pi/4$ -DQPSK include AFH)					
The reason why test are performed only rated voltage							
When the input voltage to receiver RF circuit varies below $\pm 1\%$ as the input voltage from the external power supply to the receiver varies $\pm 10\%$ (excluding power supply).							

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				Limit	Result	Note	
Environment of Test Room	Temperature	°C	24		$5 \leq x \leq 35$	PASS	
	Humidity	%	63		$45 \leq x \leq 85$	PASS	
Peak Antenna Gain		dBi	2.66		----	----	
Number of hopping channel		----	79	20	----	----	
Rated output		mW/MHz	0.002	0.006	≤ 3 mW/MHz	PASS	
Rated output		dBm/MHz	-27.79	-22.09	≤ 4.77 dBm/MHz	PASS	
E.I.R.P.		dBm/MHz	-25.13	-19.43	≤ 6.91 dBm/MHz	PASS	
Tested Circuit Insertion Loss		dB	0.80	0.80	----	----	
Input Voltage		VDC	3.70		----	----	
Packet Type (Mode)		----	3DH5		----	----	
Frequency equal to the transmission rate of the modulation signal		MHz	1		----	----	
Test Category		2.4GHz Band Wideband Low-Power Data Communication System (Bluetooth 8DPSK include AFH)					
The reason why test are performed only rated voltage							
When the input voltage to receiver RF circuit varies below $\pm 1\%$ as the input voltage from the external power supply to the receiver varies $\pm 10\%$ (excluding power supply).							

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3 ABOUT UNCERTAINTY OF MEASURED VALUE

*In this test, the influence of an error or uncertainty may be done according to the following factors.

- Bias of a measurement equipment, Change by aging, Attrition, Noise
- Skill and capability of an inspector
- Environment (Temperature, Humidity)
- Dispersion in a EUT (Equipment Under Test)
- Uncertainty of calibration of a measurement equipment

Therefore, Synthetic uncertainty is calculated using "k=2" of coverage factor, and about 95% of confidence level shall be obtained.

In consideration of the above, it judged as follows.

JUDGE	Measured value and Standard limit value	
PASS	Case1	Standard limit value +uncertainty -uncertainty Measured value *Even if it takes uncertainty into consideration, a standard limit value is fulfilled.
	Case2	*Although measured value is in a standard limit value, a limit value won't be fulfilled if uncertainty is taken into consideration.
FAIL	Case3	*Although measured value exceeds a standard limit value, a limit value will be fulfilled if uncertainty is taken into consideration.
	Case4	*Even if it takes uncertainty into consideration, a standard limit value isn't fulfilled.

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4 MEASUREMENT EQUIPMENT LIST

Output Power

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1326001	2018/08/09	2019/08/02
Power Sensor	Anritsu	MA2411B	1315048	2018/08/09	2019/08/02
Power Sensor	Anritsu	MA2411B	1315049	2018/08/09	2019/08/02
Notebook	Toshiba	PSM30L-7101F	44074865P	N/A	N/A

Conducted

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
Notebook	Toshiba	PSM30L-7101F	44074865P	N/A	N/A

Note 1: The validity of measurement equipment is one year from the first day of the following month of the calibration date.

(e.g. If the calibration date is December 15th, 2014, measurement equipment can be used from December 15th, 2014 to December 31st, 2015.)

Note 2: Calibration Method

- a): Calibration conducted by the National Institute of Information and Communications Technology(NICT)(hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1)
- b): Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992)
- c) : Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1)
- d) : Calibration conducted by using measuring instruments and other equipment listed in the right column of Table No. 3 attached hereto, which shall have been given any of calibration, etc. listed above from a) to c)

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5 TEST RESULTS:

Measurement Frequency		MHz	2441		Limit	Result	Note
Channel Number		Ch.	39		----	----	
Number of hopping channel		----	79	20	----	----	
Reading Frequency		MHz	2440.97103		----	----	
Frequency Tolerance		ppm	-11.86809		-50≤x≤+50	PASS	
Occupied Bandwidth		MHz	78.193	20.575	≤83.5 MHz	PASS	
Spread Bandwidth		MHz	71.083	18.810	≥ 0.5 MHz	PASS	
Transmission Output Power	Calculated result	mW/MHz	0.044	0.167	≤3 mW/MHz	----	
	Tolerance	%	0.00	0.00	-80≤x≤+20	PASS	
	Measured value	dBm	3.840		----	----	
	On Time	msec	2.902		≤400 msec	PASS	
	Off Time	msec	0.854		----	----	
	Burst Ratio	%	77.3		----	----	
Unwanted Emission Strength	2387MHz Under	μW/MHz	0.002244		≤2.5uW/MHz	PASS	
		MHz	2377.29		----	----	
	2387-2400MHz	μW/MHz	0.002884		≤25uW/MHz	PASS	
		MHz	2389.41		----	----	
	2483.5-2496.5MHz	μW/MHz	0.002296		≤25uW/MHz	PASS	
		MHz	2491.98		----	----	
	2496.5MHz Over	μW/MHz	0.008531		≤2.5uW/MHz	PASS	
		MHz	4881.85		----	----	
Secondarily Emitted Radio Wave Strength (RX Spurious)	1GHz Under	nW	0.020370		≤ 4 nW	PASS	
		MHz	12.23		----	----	
	1GHz Over	nW	0.222331		≤ 20 nW	PASS	
		MHz	2452		----	----	
	Tested Circuit Insertion Loss for RX Spurious						1
Spread Factor		----	71.1	18.81	≥5	PASS	
Dwell Time		mSec	278.08		≤400 msec	PASS	
Interference Prevention Function		----	good		----	PASS	

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Measurement Frequency		MHz	2441		Limit	Result	Note
Channel Number		Ch.	39		----	----	
Number of hopping channel		-----	79	20	----	----	
Reading Frequency		MHz	2440.97095		----	----	
Frequency Tolerance		ppm	-11.90086		-50≤x≤+50	PASS	
Occupied Bandwidth		MHz	78.314	20.920	≤83.5 MHz	PASS	
Spread Bandwidth		MHz	71.648	19.234	≥ 0.5 MHz	PASS	
Transmission Output Power	Calculated result	mW/MHz	0.015	0.054	≤3 mW/MHz	----	
	Tolerance	%	0.00	0.00	-80≤x≤+20	PASS	
	Measured value	dBm	-0.95		----	----	
	On Time	msec	2.889		≤400 msec	PASS	
	Off Time	msec	0.854		----	----	
	Burst Ratio	%	77.2		----	----	
Unwanted Emission Strength	2387MHz Under	μW/MHz	0.002056		≤2.5uW/MHz	PASS	
		MHz	2381.97		----	----	
	2387-2400MHz	μW/MHz	0.003126		≤25uW/MHz	PASS	
		MHz	2393.25		----	----	
	2483.5-2496.5MHz	μW/MHz	0.002080		≤25uW/MHz	PASS	
		MHz	2483.55		----	----	
	2496.5MHz Over	μW/MHz	0.009311		≤2.5uW/MHz	PASS	
		MHz	25617.87		----	----	
Secondarily Emitted Radio Wave Strength (RX Spurious)	1GHz Under	nW	0.129718		≤ 4 nW	PASS	
		MHz	745.69		----	----	
	1GHz Over	nW	0.232809		≤ 20 nW	PASS	
		MHz	2467		----	----	
	Tested Circuit Insertion Loss for RX Spurious						1
Spread Factor		-----	71.6	19.23	≥5	PASS	
Dwell Time		mSec	280.00		≤400 msec	PASS	
Interference Prevention Function		-----	good		----	PASS	

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Measurement Frequency		MHz	2441		Limit	Result	Note
Channel Number		Ch.	39		----	----	
Number of hopping channel		-----	79	20	----	----	
Reading Frequency		MHz	2440.97093		----	----	
Frequency Tolerance		ppm	-11.90905		-50≤x≤+50	PASS	
Occupied Bandwidth		MHz	78.326	20.921	≤83.5 MHz	PASS	
Spread Bandwidth		MHz	71.081	19.154	≥ 0.5 MHz	PASS	
Transmission Output Power	Calculated result	mW/MHz	0.002	0.006	≤3 mW/MHz	----	
	Tolerance	%	0.00	0.00	-80≤x≤+20	PASS	
	Measured value	dBm	-10.35		----	----	
	On Time	msec	2.929		≤400 msec	PASS	
	Off Time	msec	0.83		----	----	
	Burst Ratio	%	78.0		----	----	
Unwanted Emission Strength	2387MHz Under	μW/MHz	0.003199		≤2.5uW/MHz	PASS	
		MHz	730.47		----	----	
	2387-2400MHz	μW/MHz	0.002825		≤25uW/MHz	PASS	
		MHz	2395.28		----	----	
	2483.5-2496.5MHz	μW/MHz	0.002333		≤25uW/MHz	PASS	
		MHz	2492.02		----	----	
	2496.5MHz Over	μW/MHz	0.008128		≤2.5uW/MHz	PASS	
		MHz	25560.86		----	----	
Secondarily Emitted Radio Wave Strength (RX Spurious)	1GHz Under	nW	0.103276		≤ 4 nW	PASS	
		MHz	744.95		----	----	
	1GHz Over	nW	0.068865		≤ 20 nW	PASS	
		MHz	2627.5		----	----	
	Tested Circuit Insertion Loss for RX Spurious						1
Spread Factor		----	71.1	19.15	≥5	PASS	
Dwell Time		mSec	280.66		≤400 msec	PASS	
Interference Prevention Function		-----	good		----	PASS	

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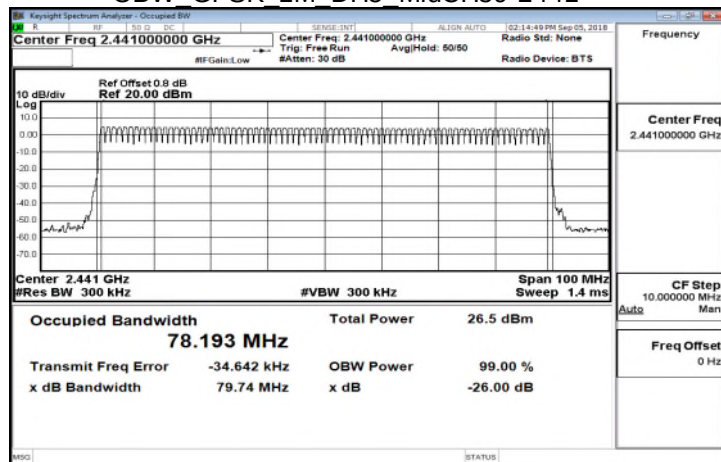
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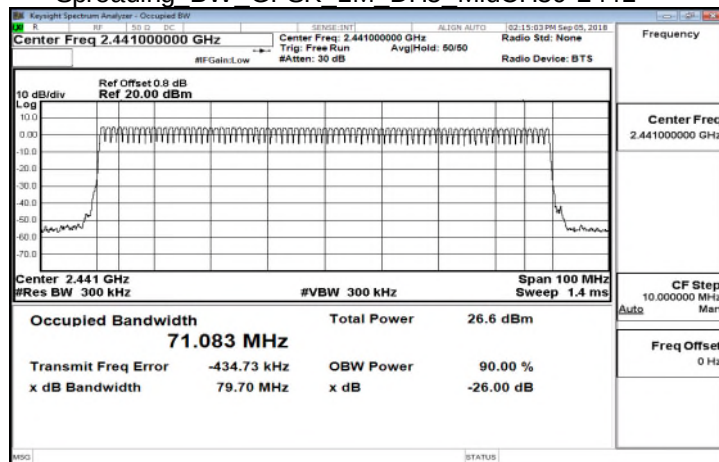
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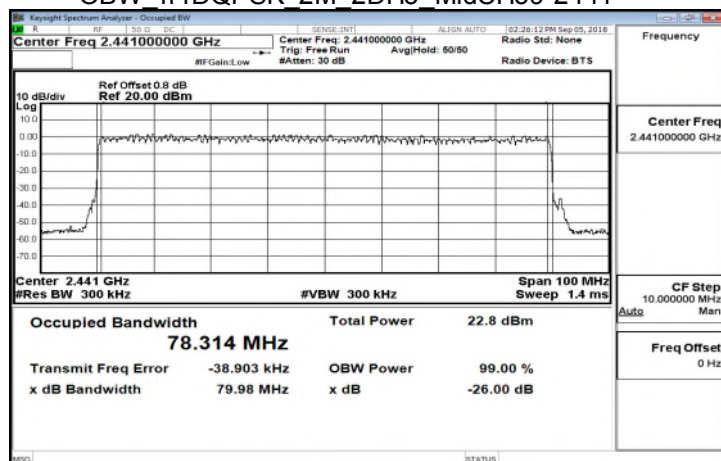
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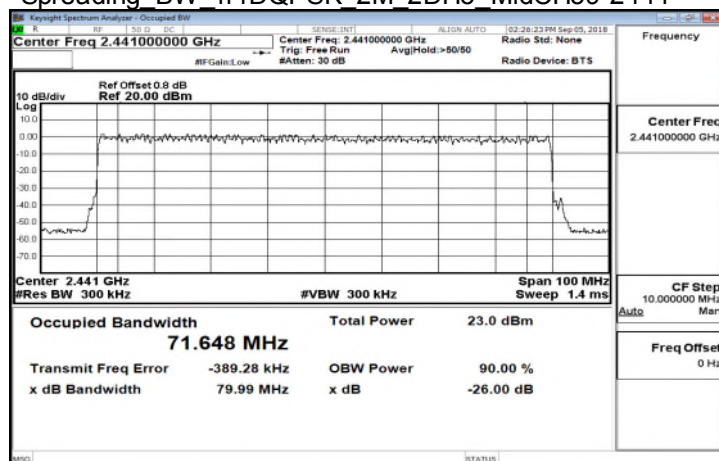
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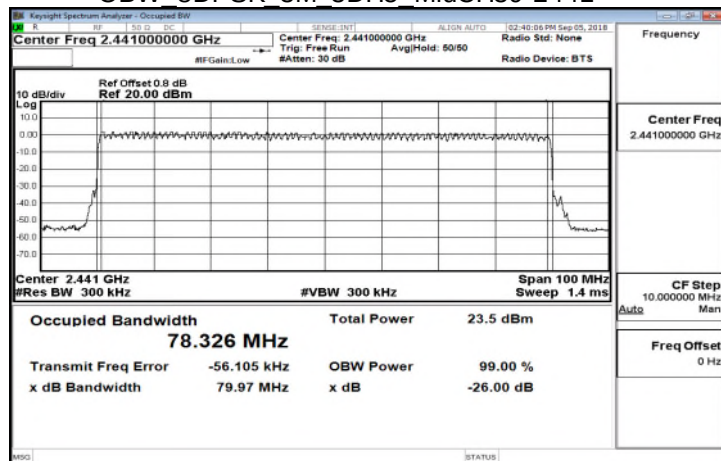
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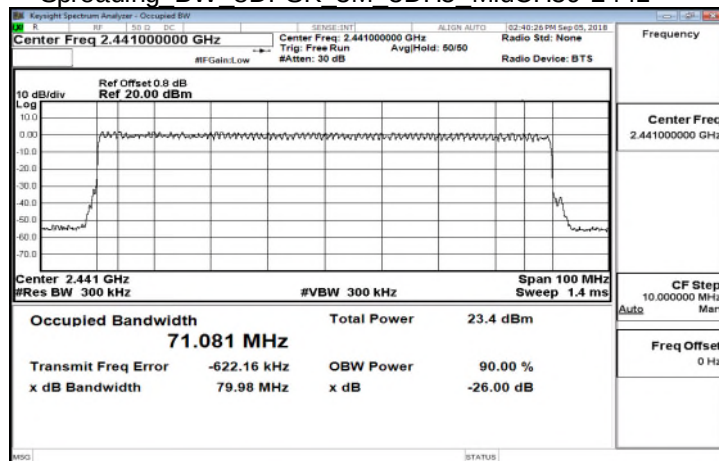
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OBW 8DPSK 3M 3DH5 MidCH39-2441



Spreading BW 8DPSK 3M 3DH5 MidCH39-2441



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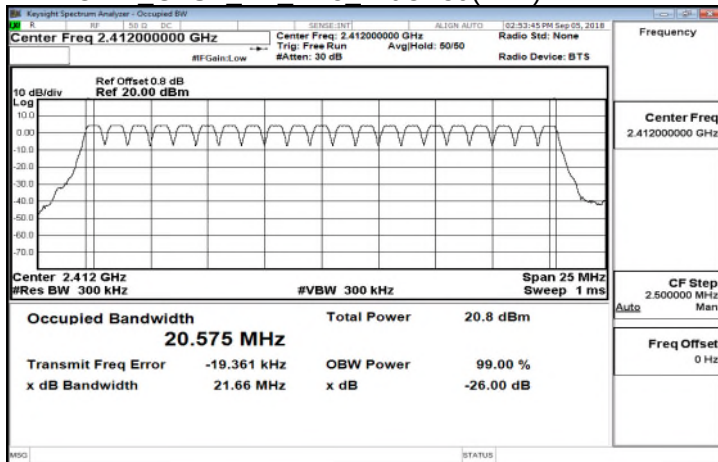
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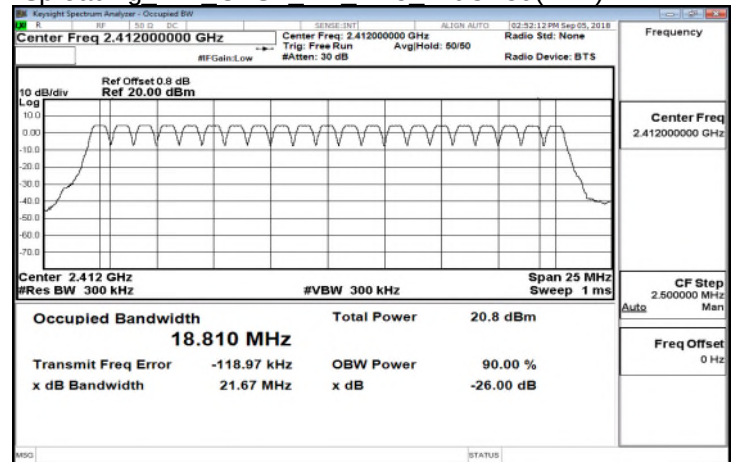
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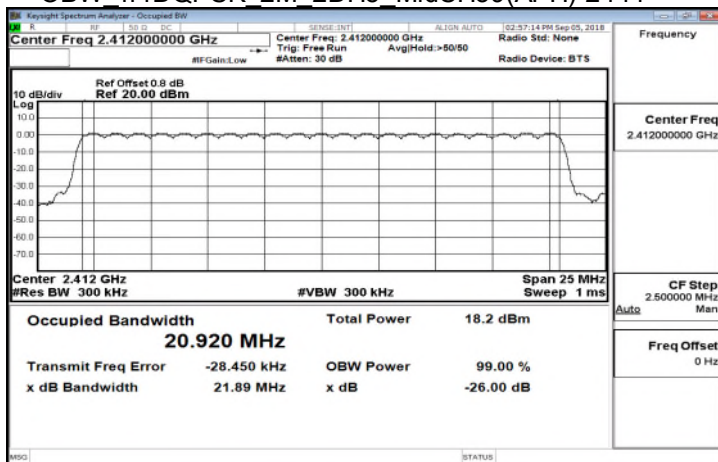
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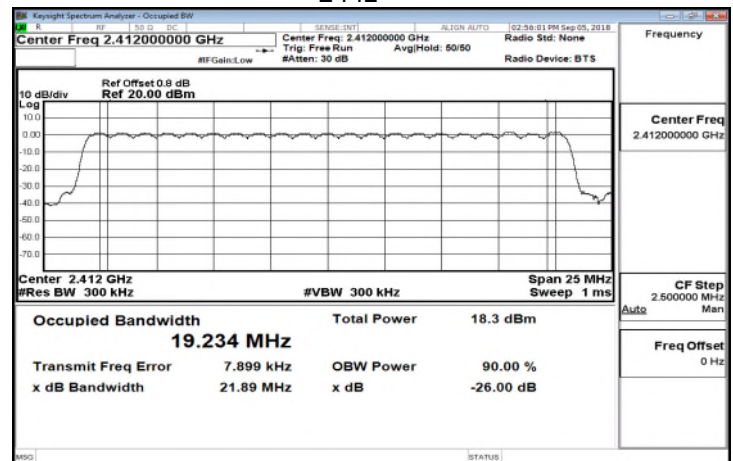
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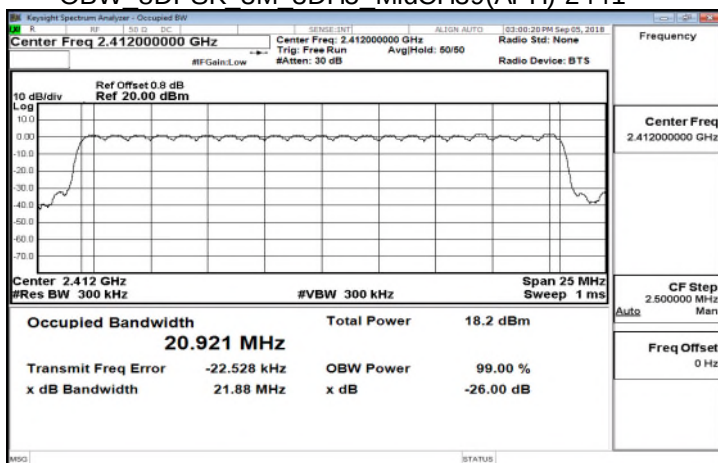
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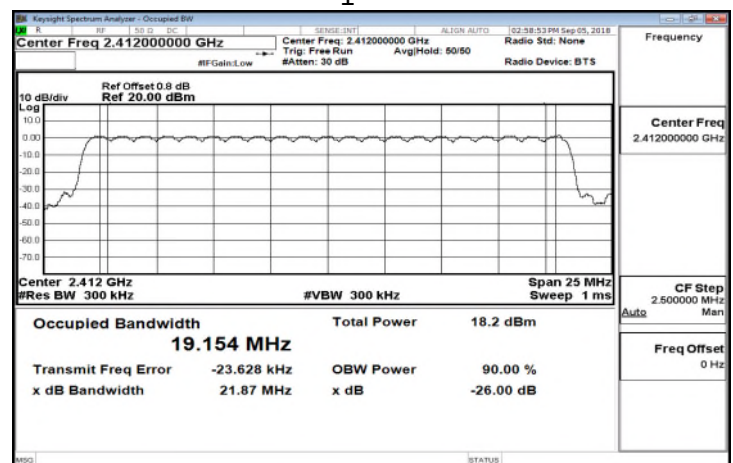
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OBW 8DPSK 3M 3DH5 MidCH39(AFH)-2441



Spreading_BW 8DPSK 3M 3DH5 MidCH39(AFH)-2441



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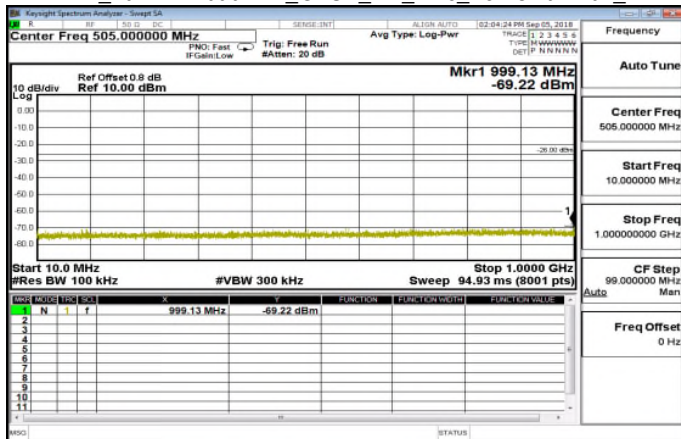
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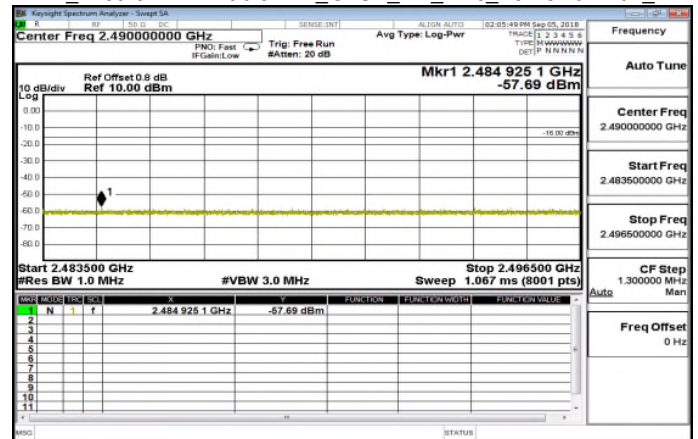
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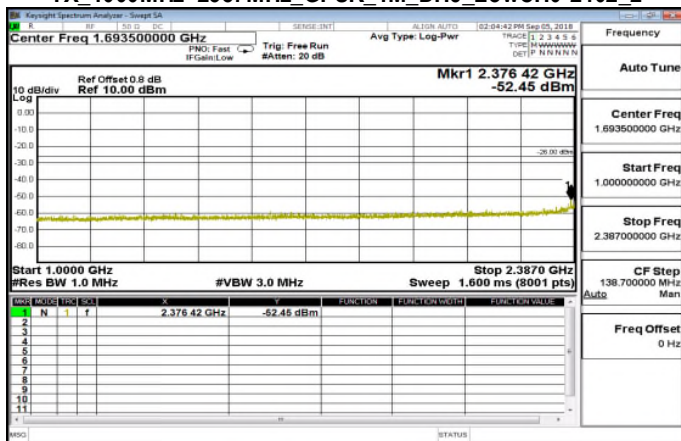
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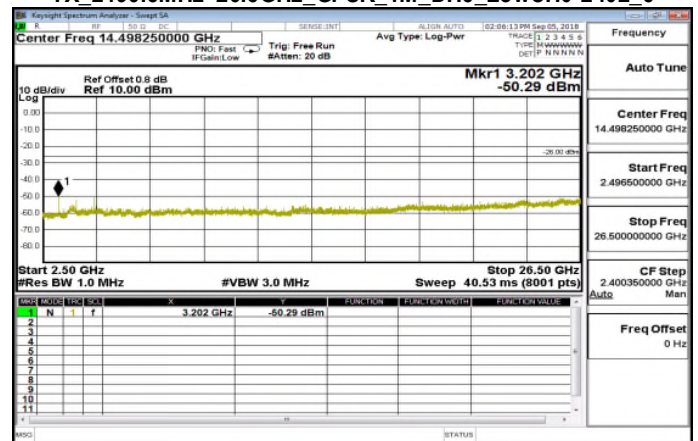
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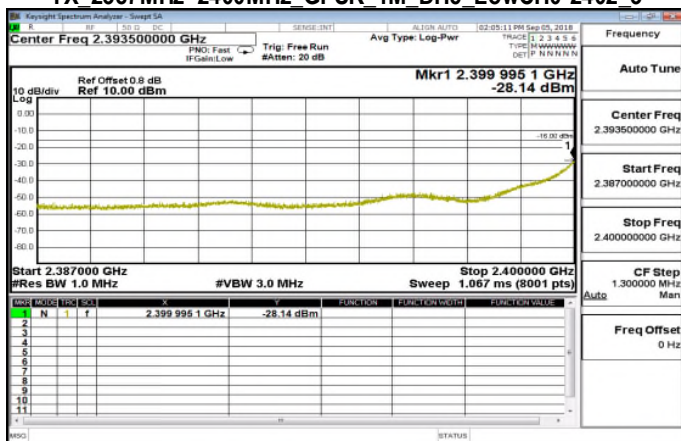
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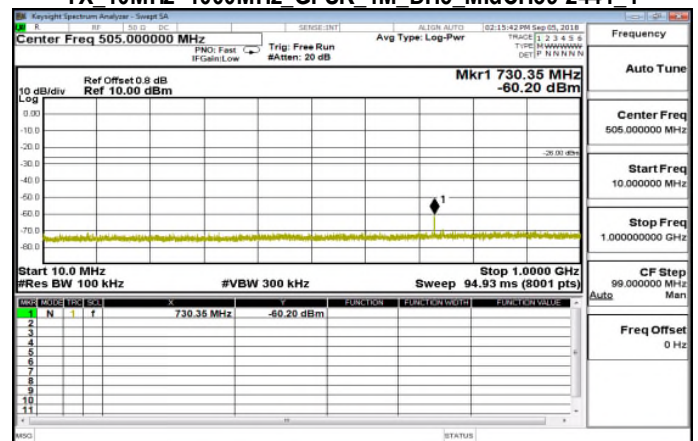
TX 2496.5MHz~26.5GHz_GFSK 1M_DH5 LowCH0-2402 5



TX 2387MHz~2400MHz_GFSK 1M_DH5 LowCH0-2402 3



TX 10MHz~1000MHz_GFSK 1M_DH5 MidCH39-2441 1



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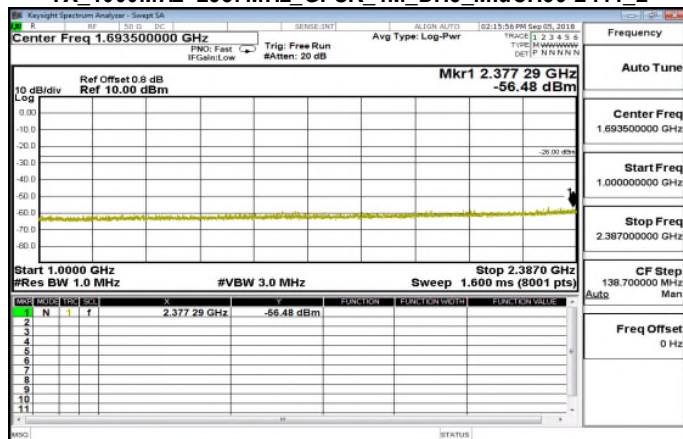
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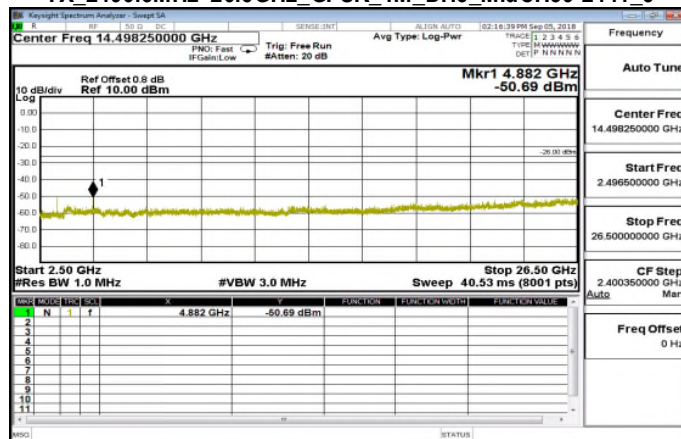
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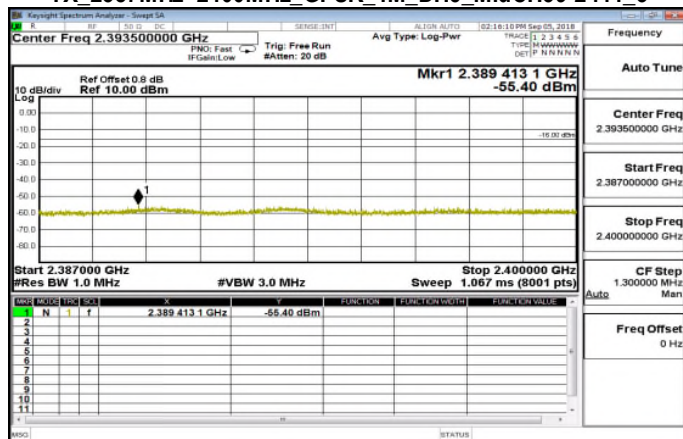
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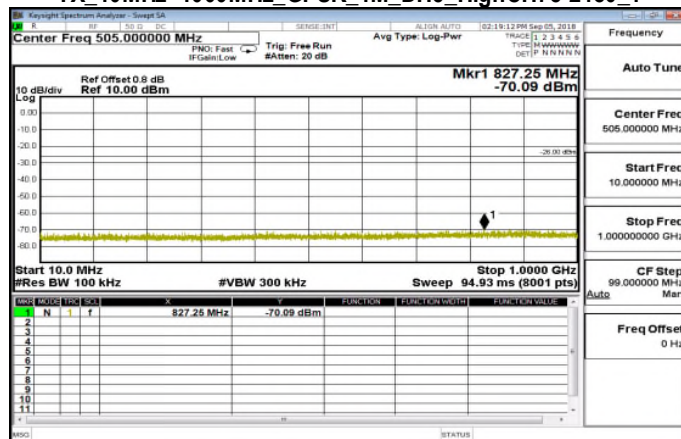
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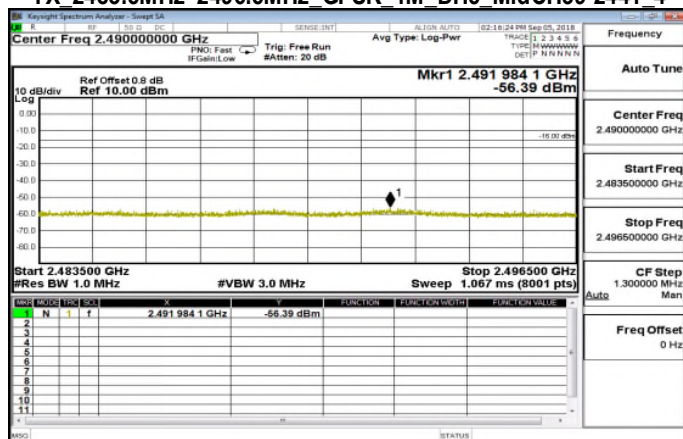
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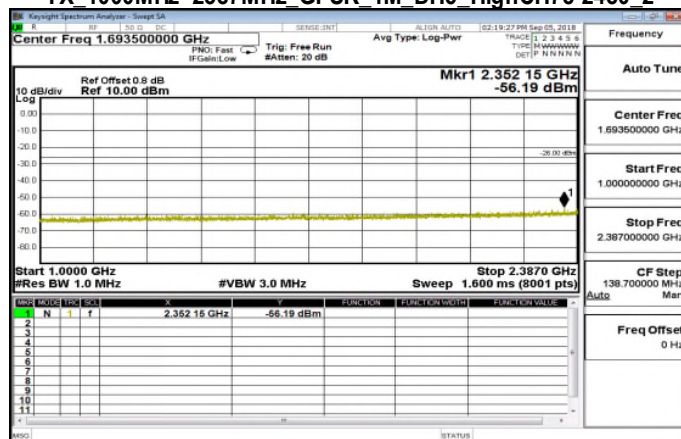
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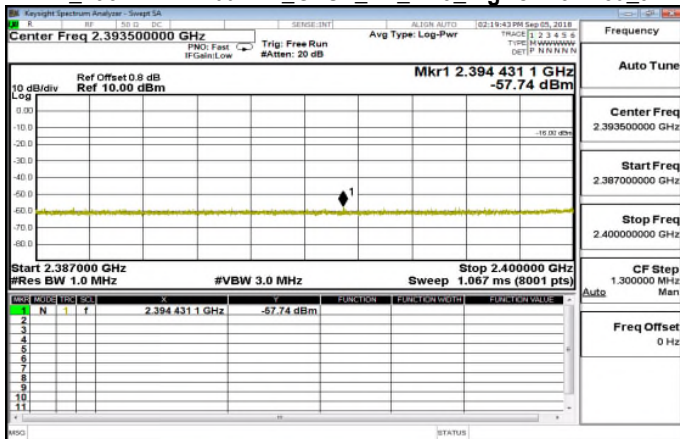
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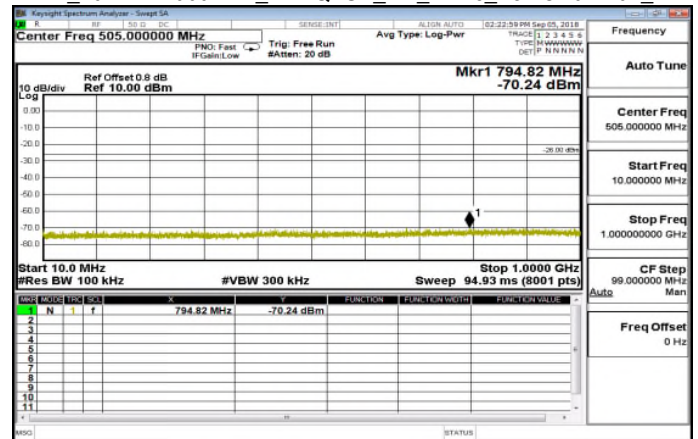
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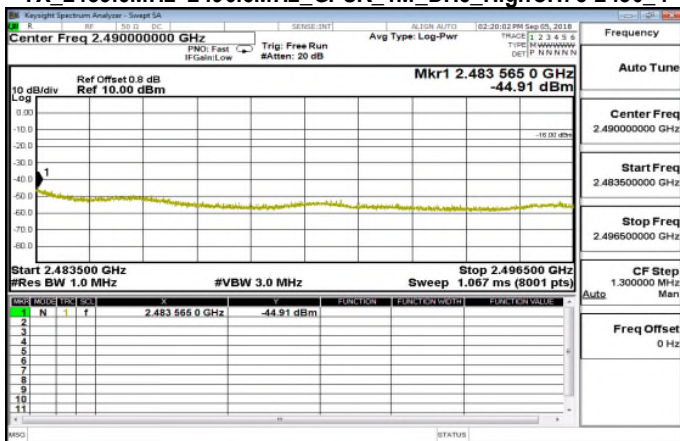
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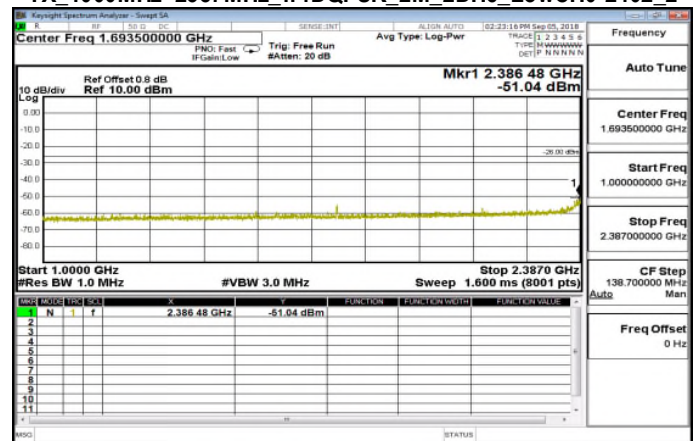
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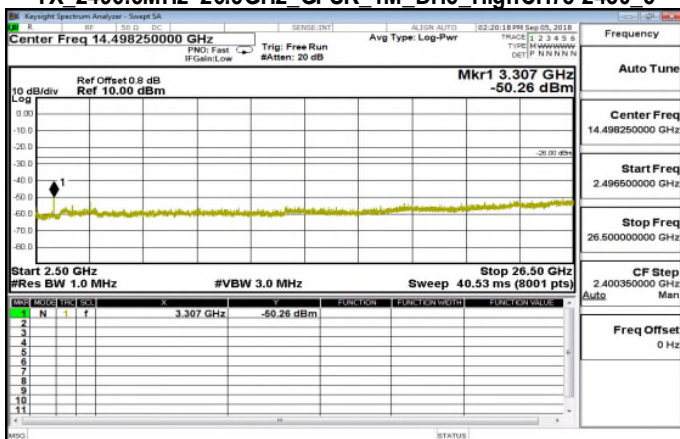
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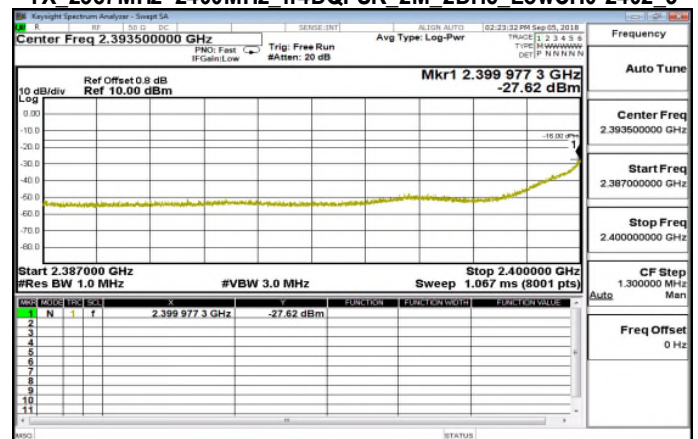
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TX 2496.5MHz~26.5GHz GFSK 1M DH5 HighCH78-2480 5



TX 2387MHz~2400MHz π 4DQPSK 2M 2DH5 LowCH0-2402 3



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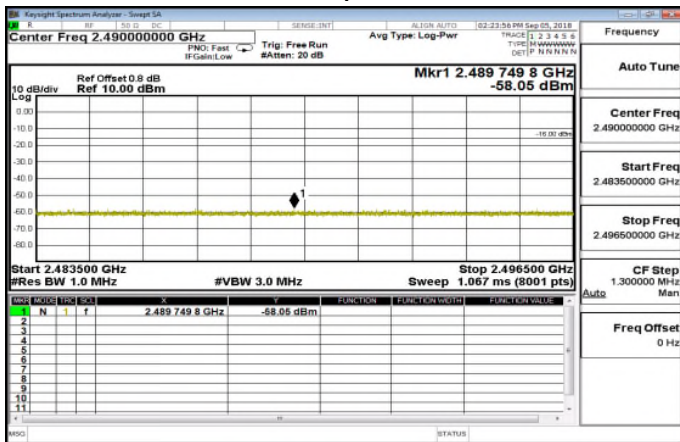
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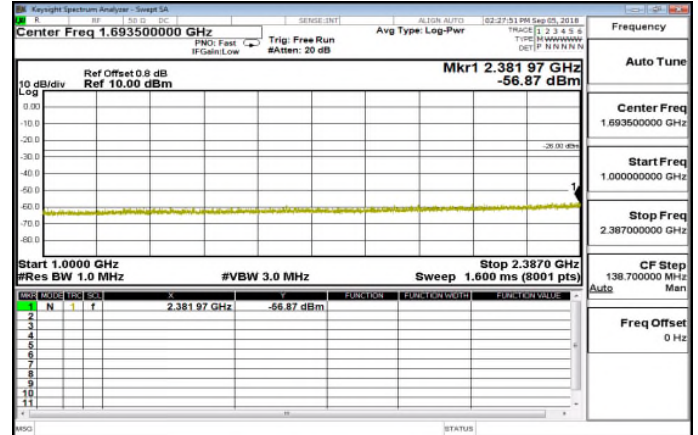
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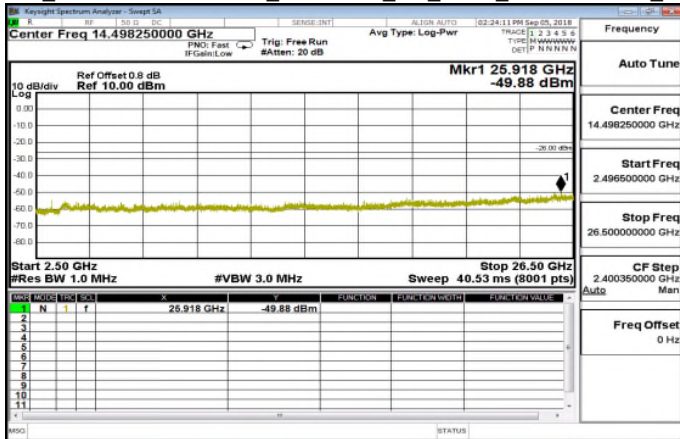
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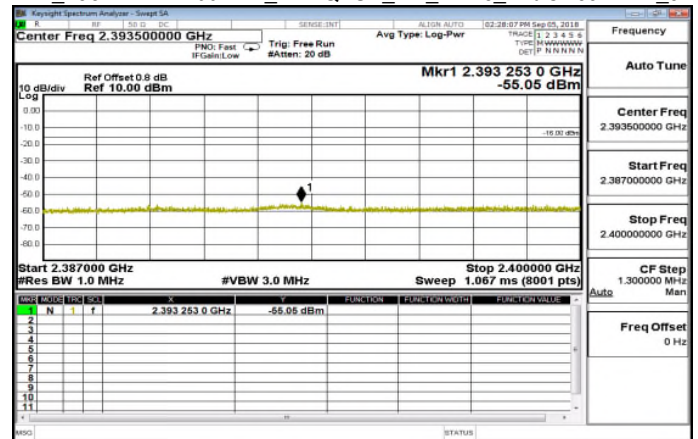
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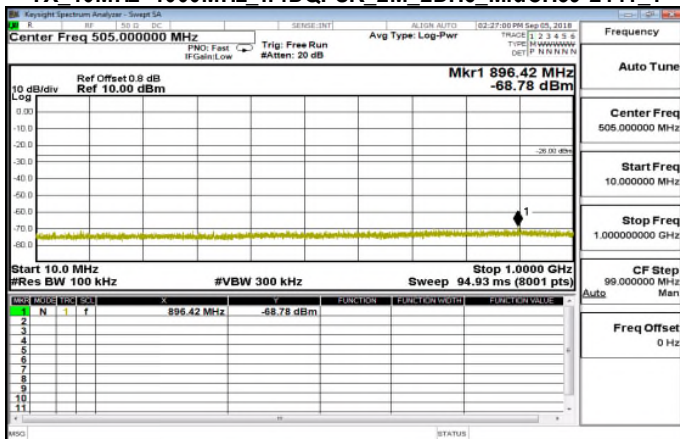
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TX 2387MHz~2400MHz π 4DQPSK 2M 2DH5 MidCH39-2441 3

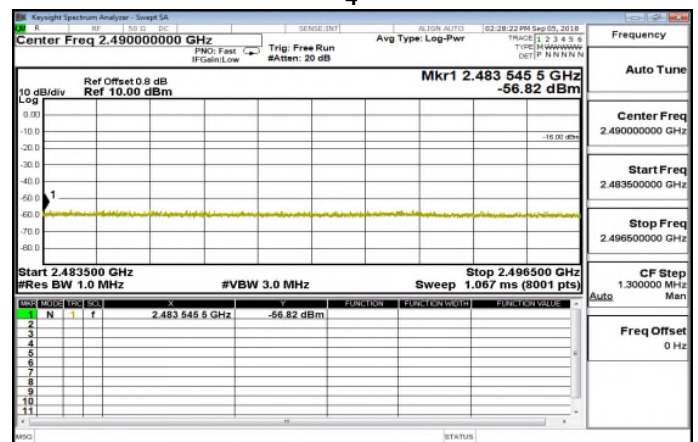


TX 10MHz~1000MHz π 4DQPSK 2M 2DH5 MidCH39-2441 1



TX 2483.5MHz~2496.5MHz π 4DQPSK 2M 2DH5 MidCH39-2441 4

4



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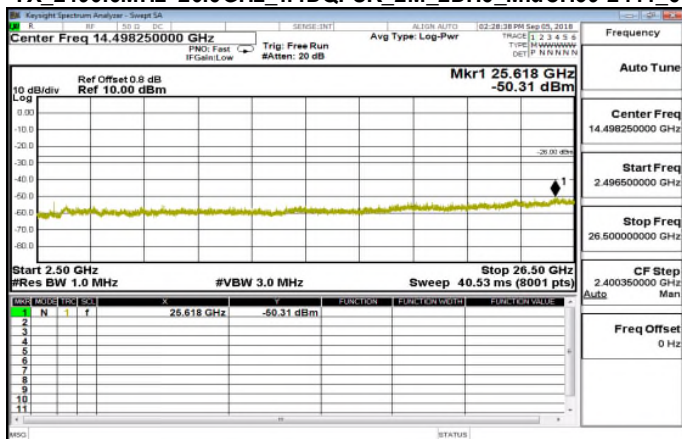
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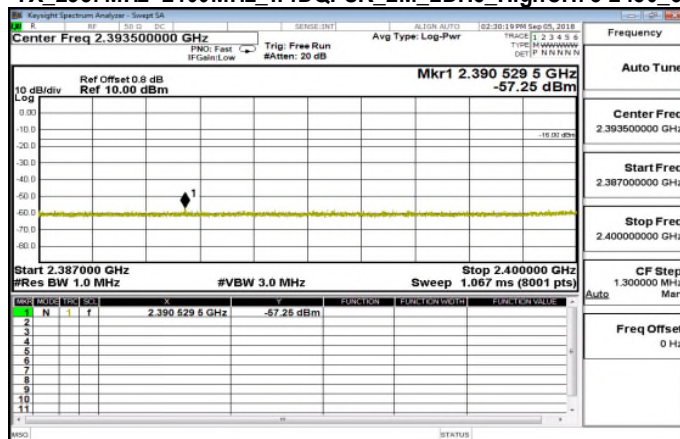
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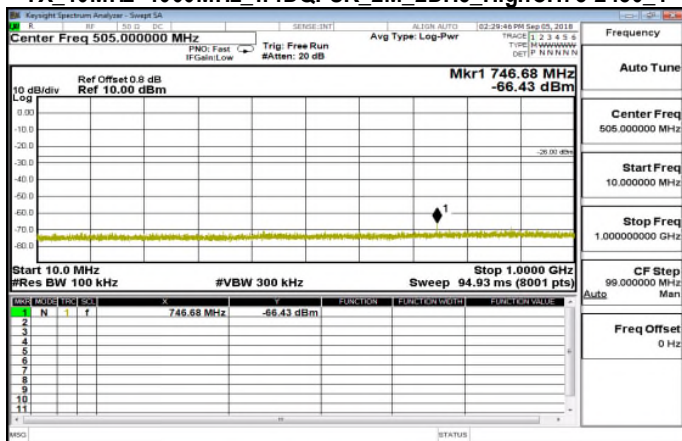
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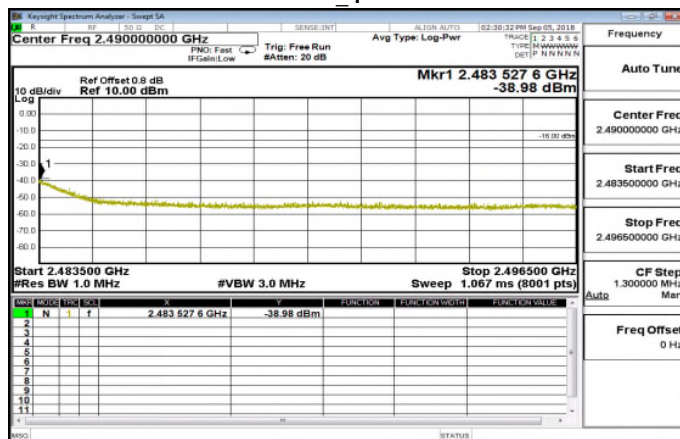
TX 2387MHz~2400MHz π 4DQPSK 2M 2DH5 HighCH78-2480 3



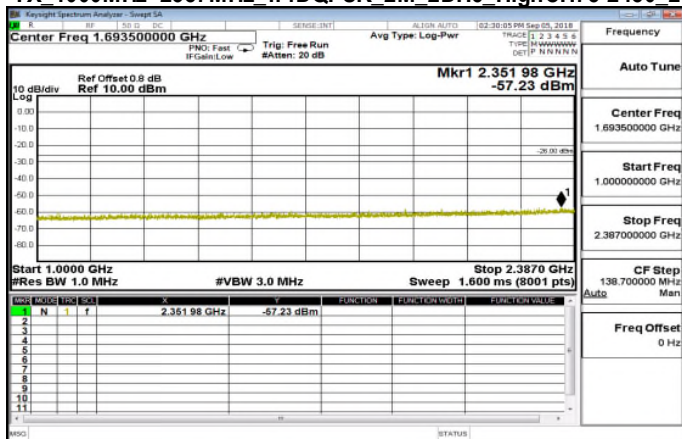
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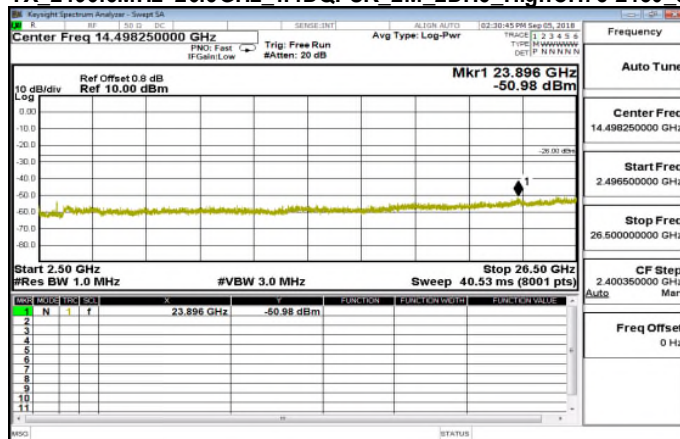
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TX 1000MHz~2387MHz π 4DQPSK 2M 2DH5 HighCH78-2480 2



TX 2496.5MHz~26.5GHz π 4DQPSK 2M 2DH5 HighCH78-2480 5



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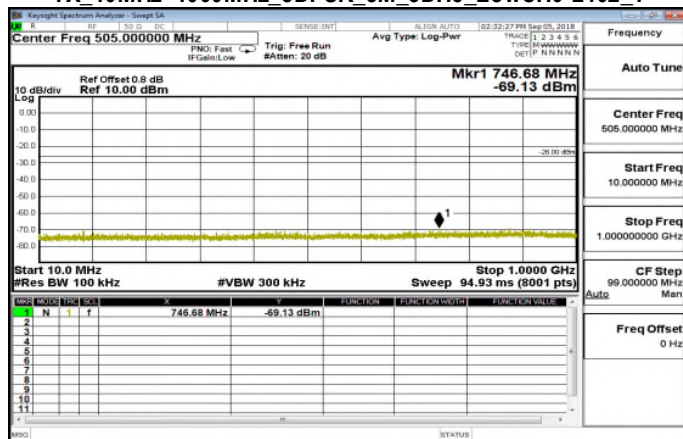
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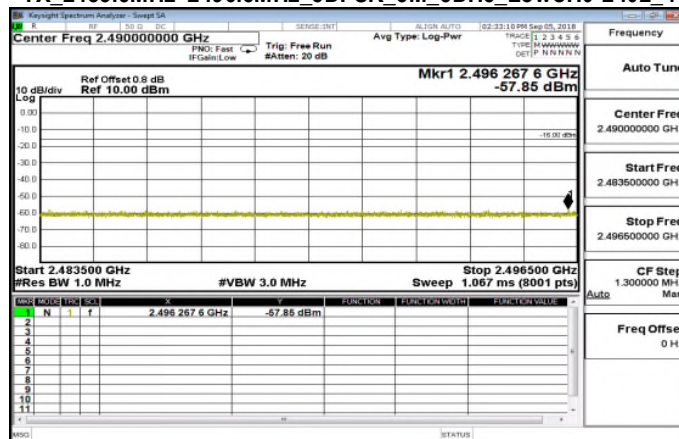
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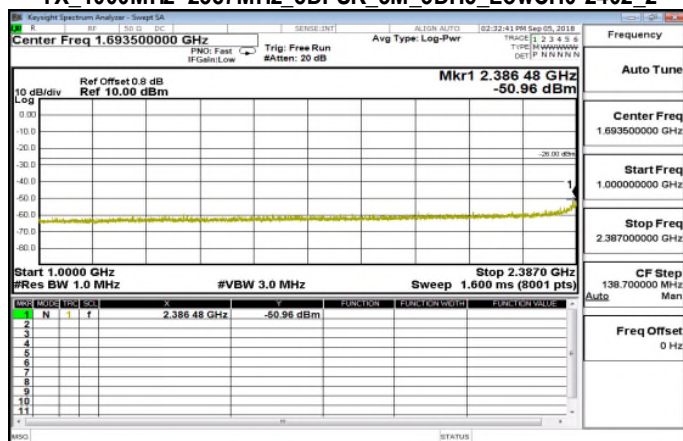
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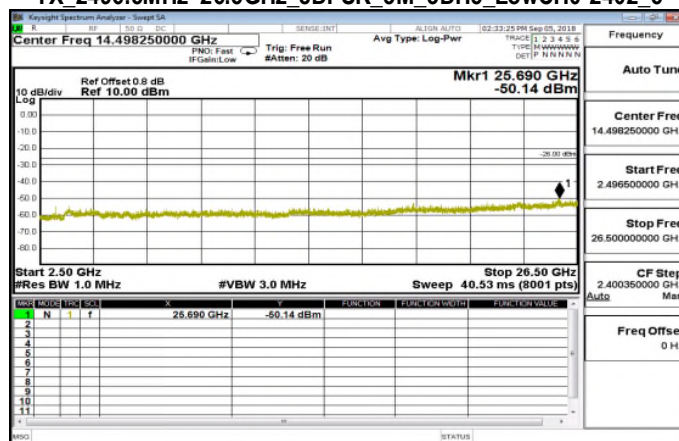
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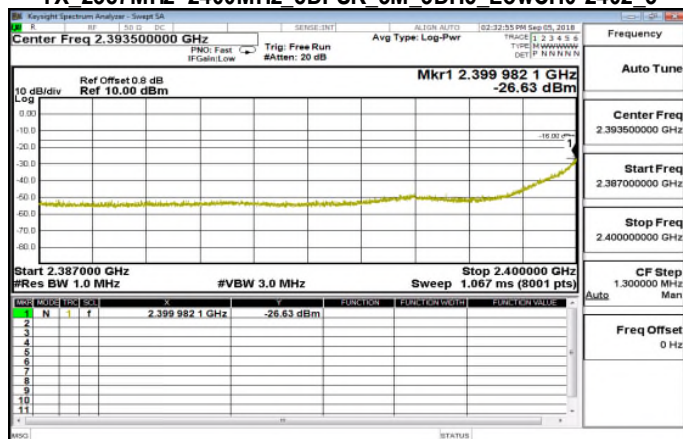
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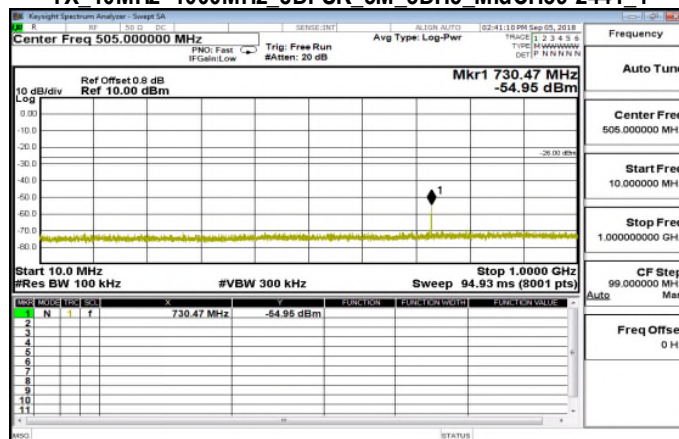
TX 2496.5MHz~26.5GHz 8DPSK 3M 3DH5 LowCH0-2402 5



TX 2387MHz~2400MHz 8DPSK 3M 3DH5 LowCH0-2402 3



TX 10MHz~1000MHz 8DPSK 3M 3DH5 MidCH39-2441 1



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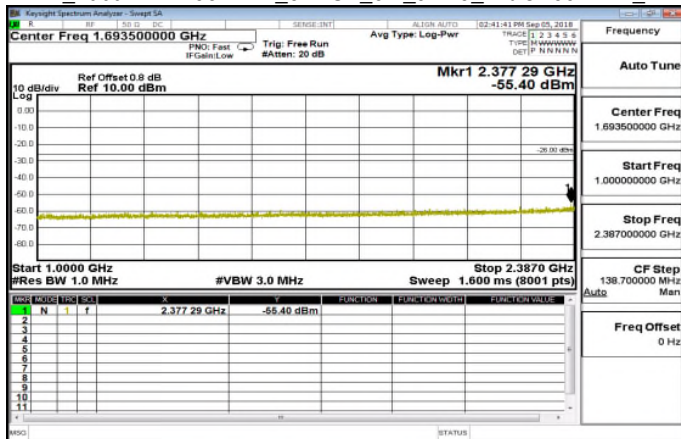
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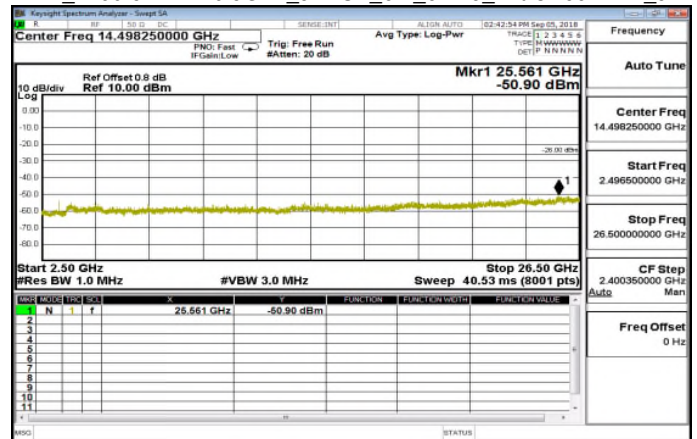
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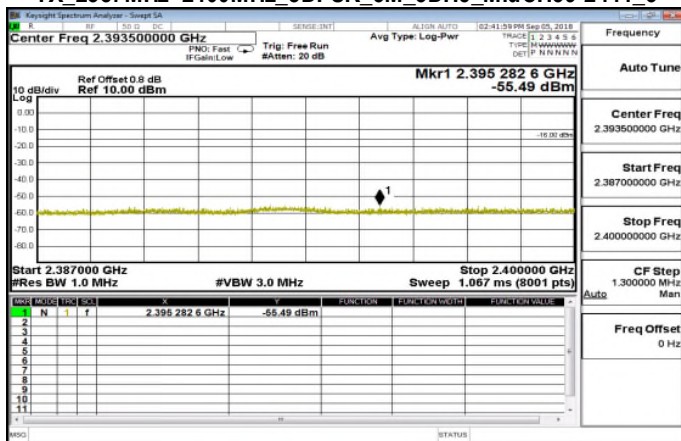
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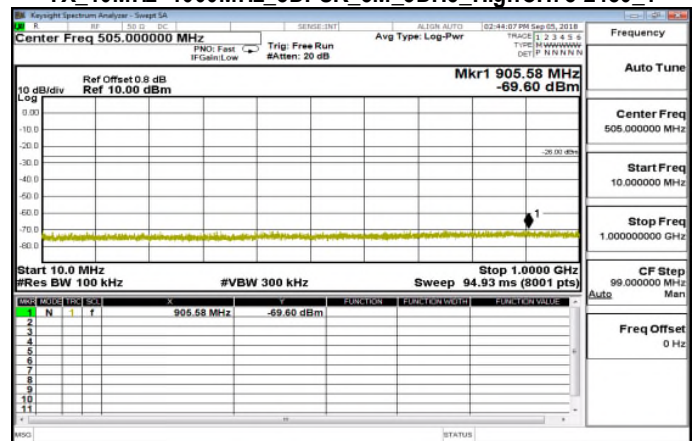
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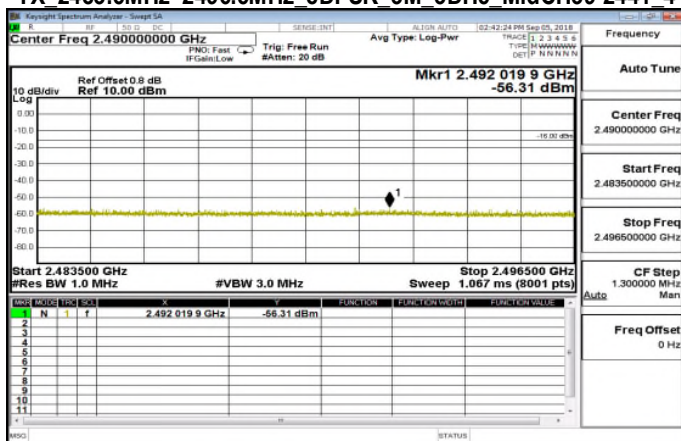
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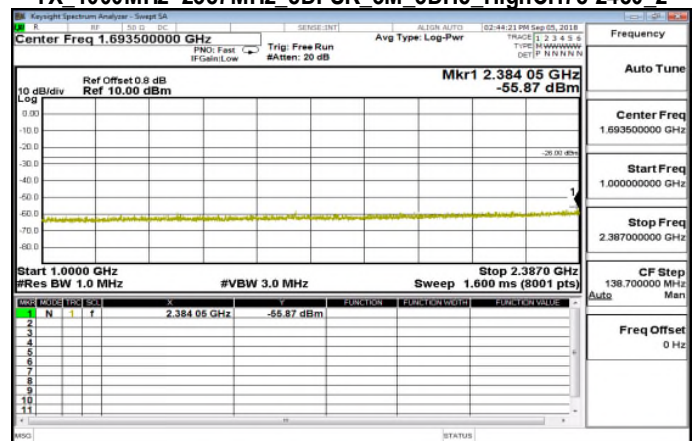
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TX 2483.5MHz~2496.5MHz_8DPSK_3M_3DH5_MidCH39-2441_4



TX 1000MHz~2387MHz_8DPSK_3M_3DH5_HighCH78-2480_2



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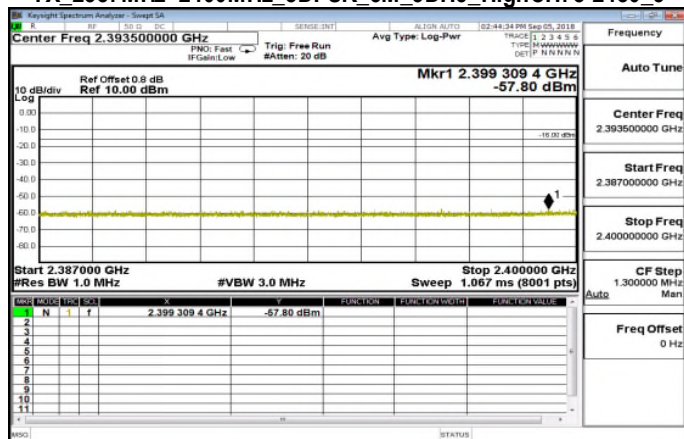
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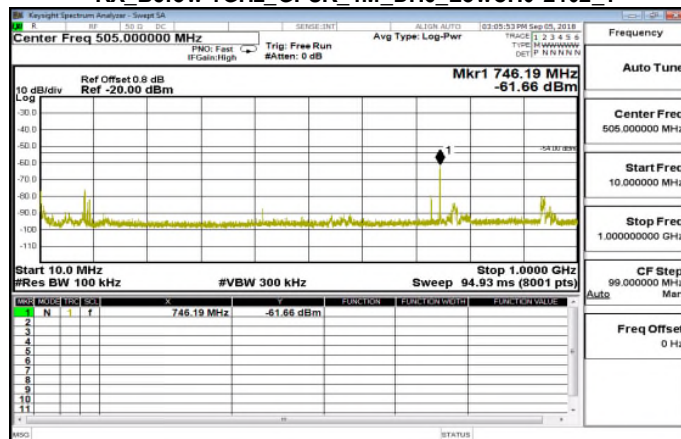
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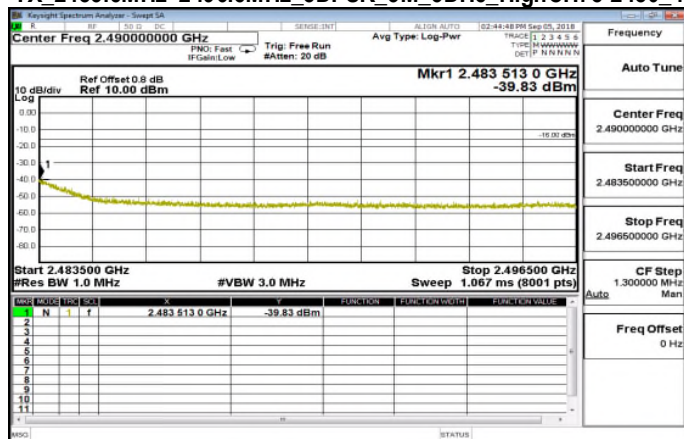
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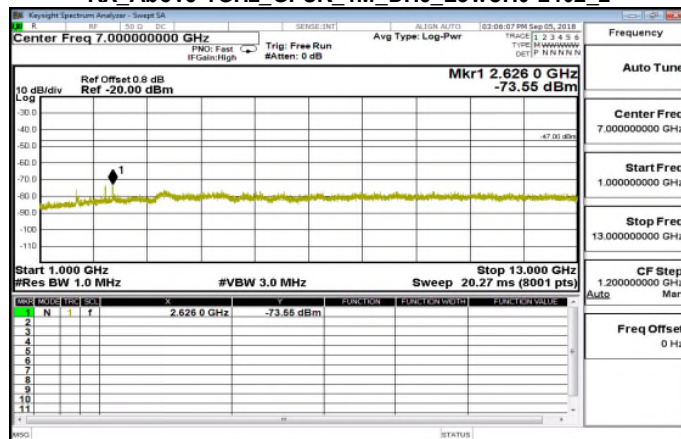
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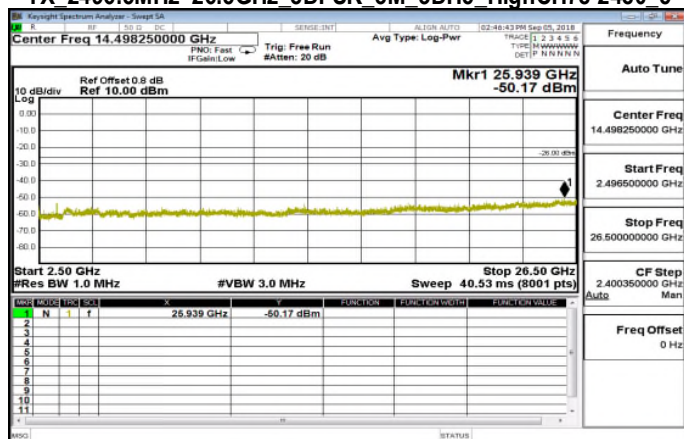
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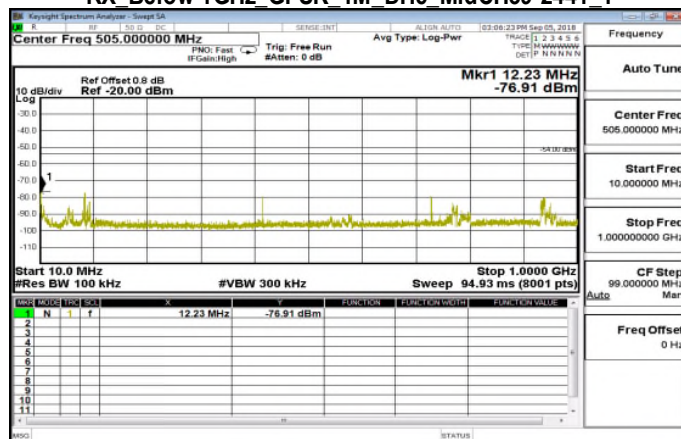
RX Above 1GHz_GFSK_1M_DH5_LowCH0-2402_2



TX 2496.5MHz~26.5GHz_8DPSK_3M_3DH5_HighCH78-2480_5



RX Below 1GHz_GFSK_1M_DH5_MidCH39-2441_1



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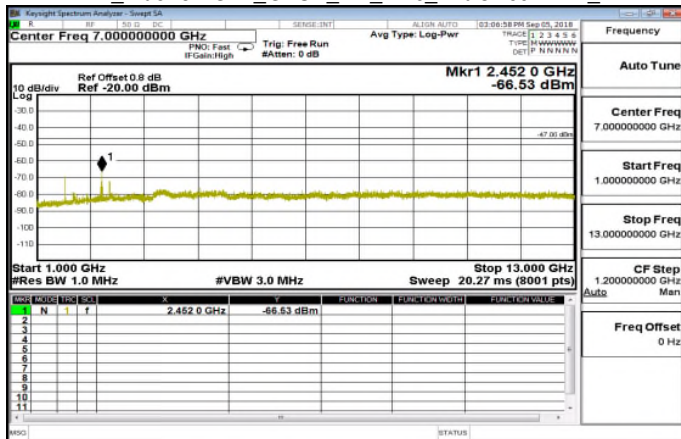
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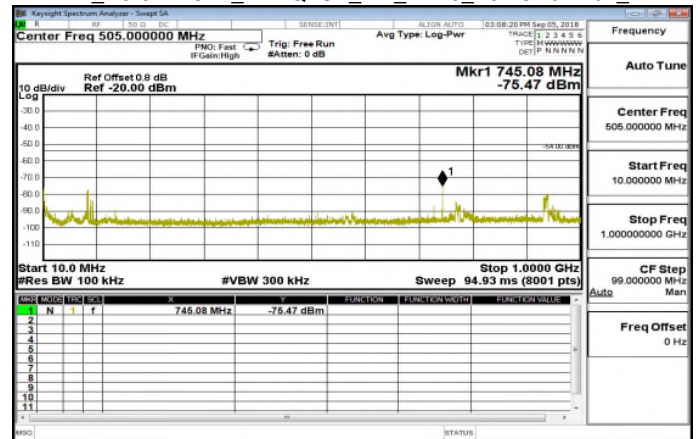
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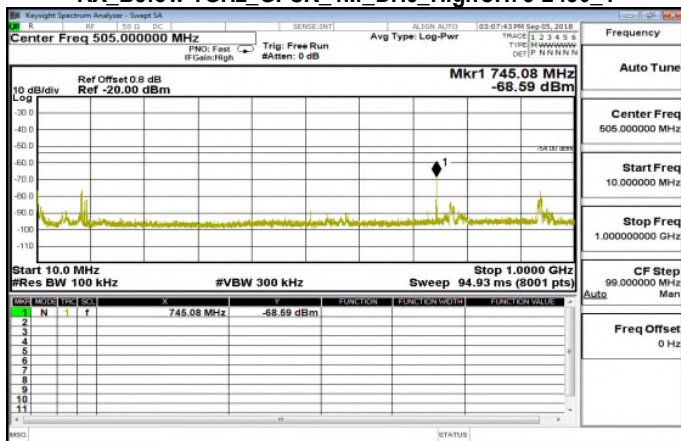
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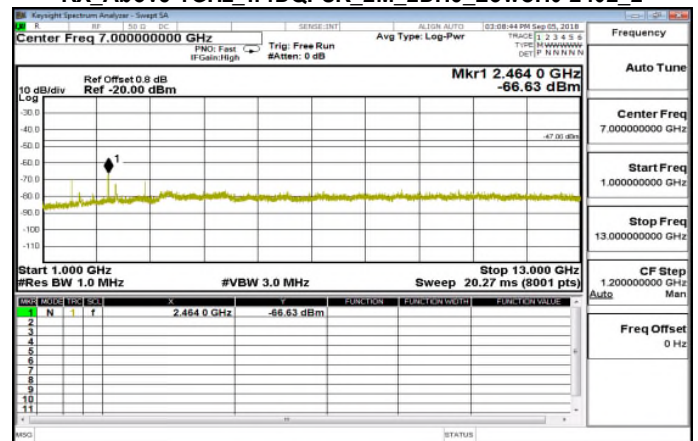
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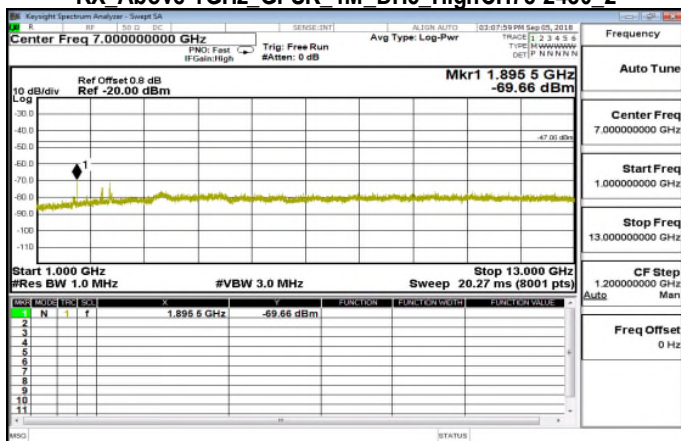
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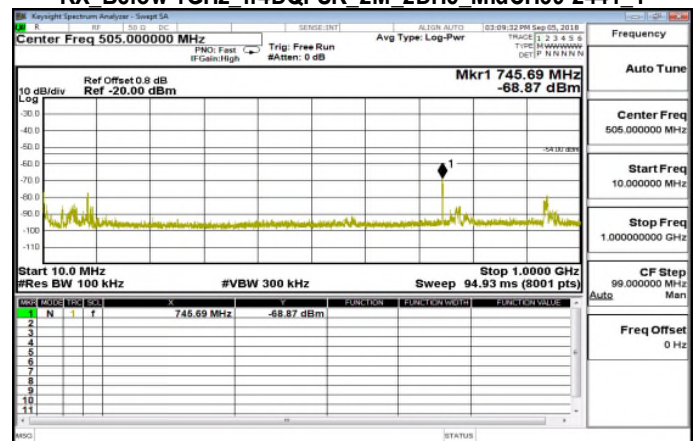
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RX Below 1GHz_π4DQPSK_2M_2DH5_MidCH39-2441_1



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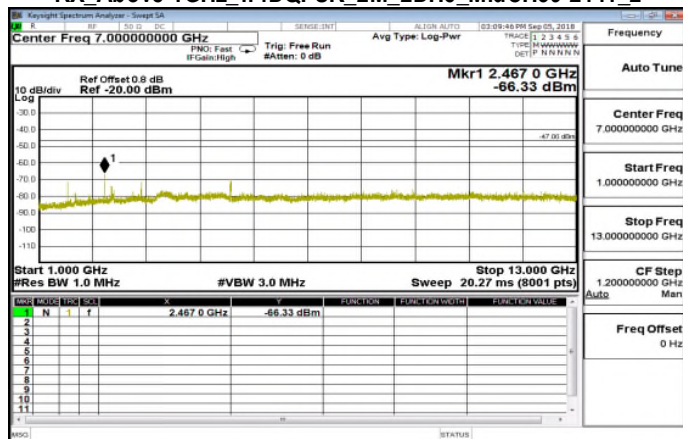
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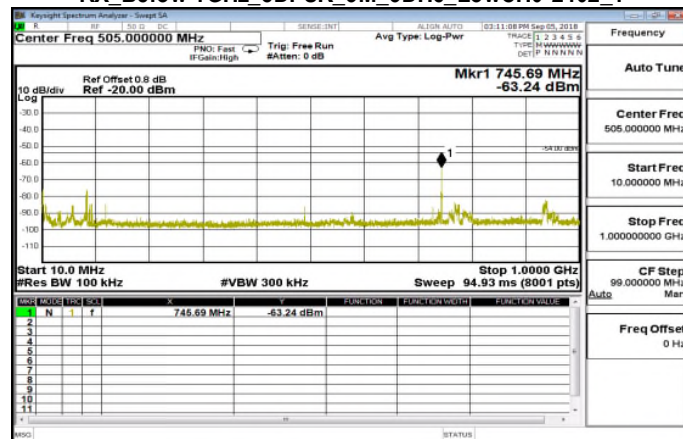
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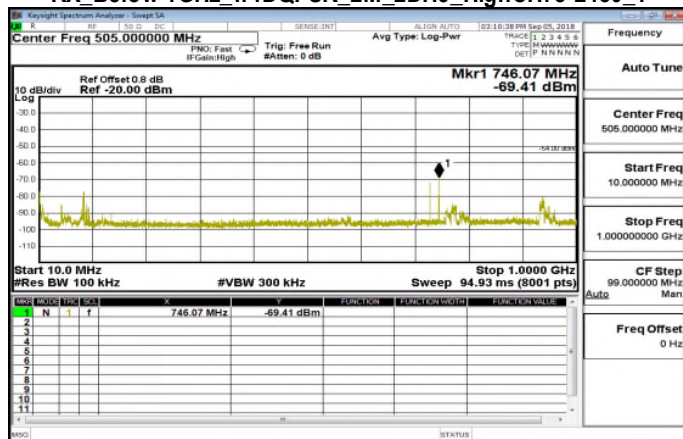
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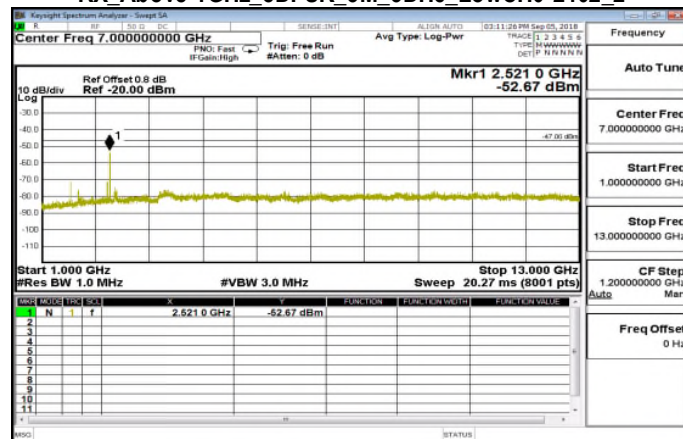
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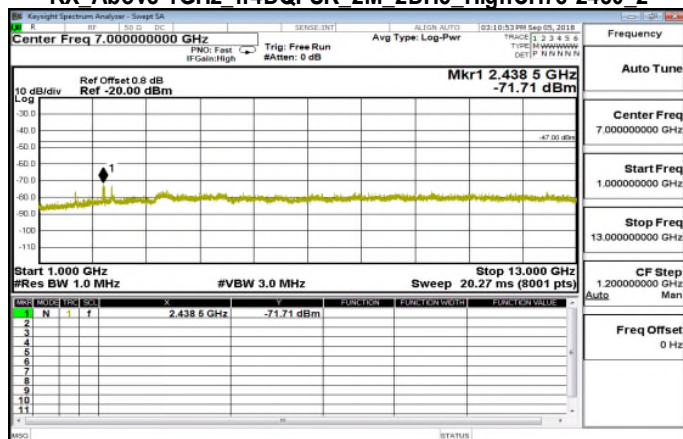
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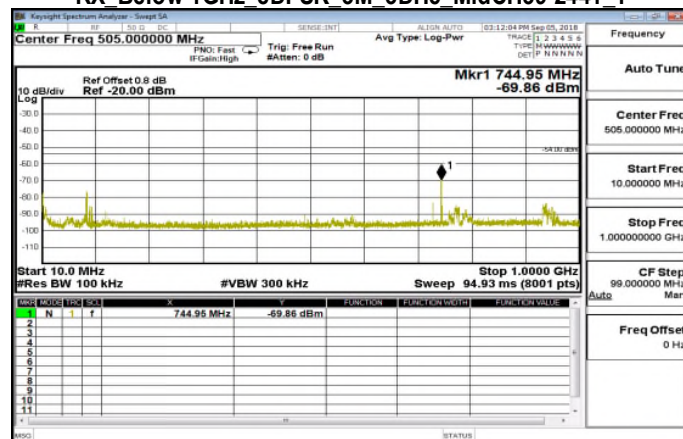
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RX_Below 1GHz_8DPSK_3M_3DH5_MidCH39-2441_1



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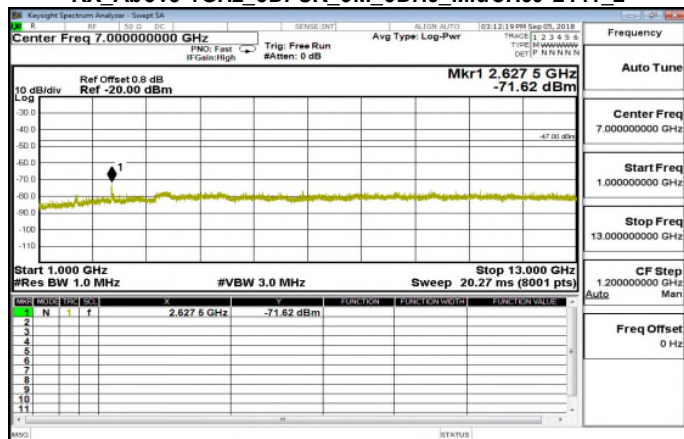
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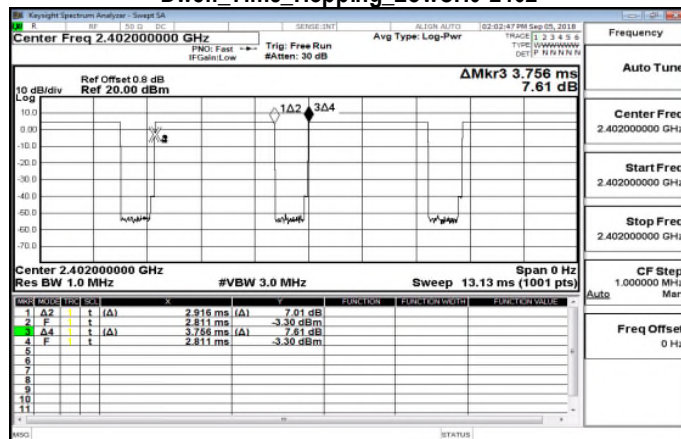
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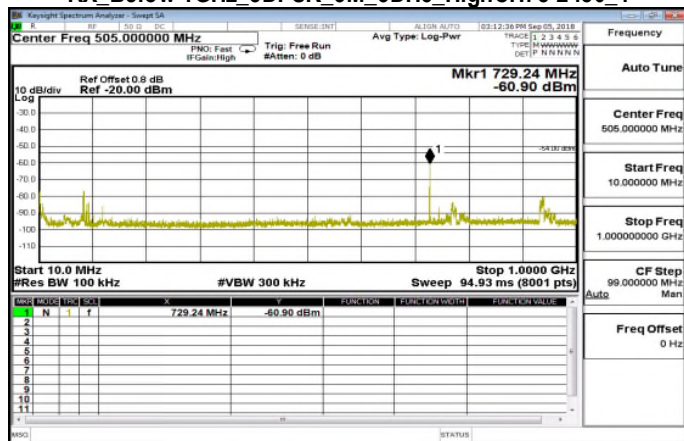
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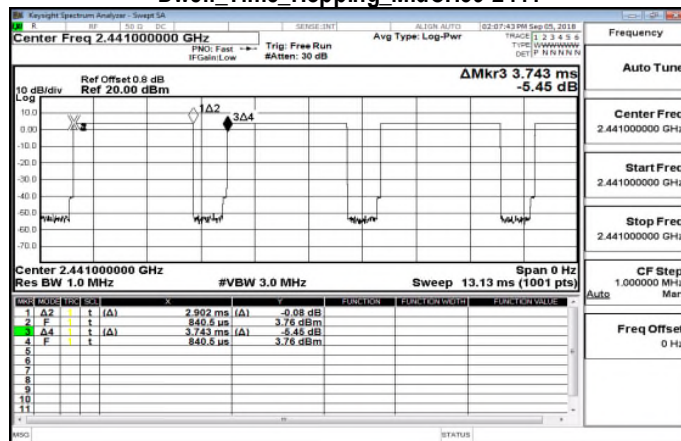
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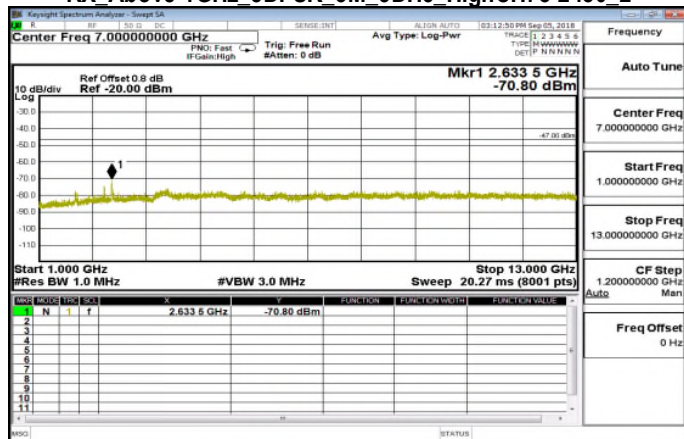
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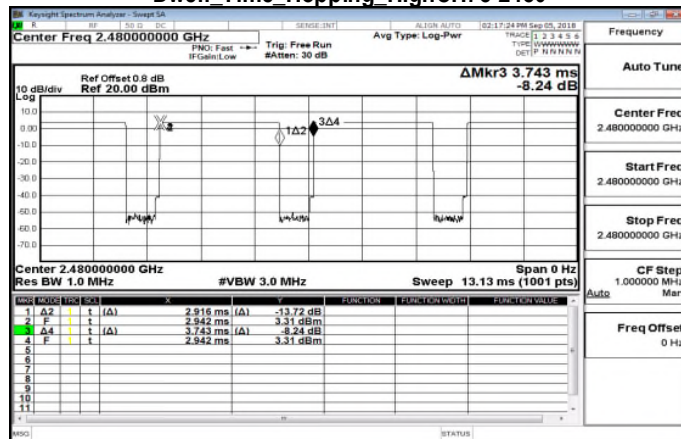
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RX_Above 1GHz_8DPSK_3M_3DH5_HighCH78-2480_2



Dwell_Time_Hopping_HighCH78-2480



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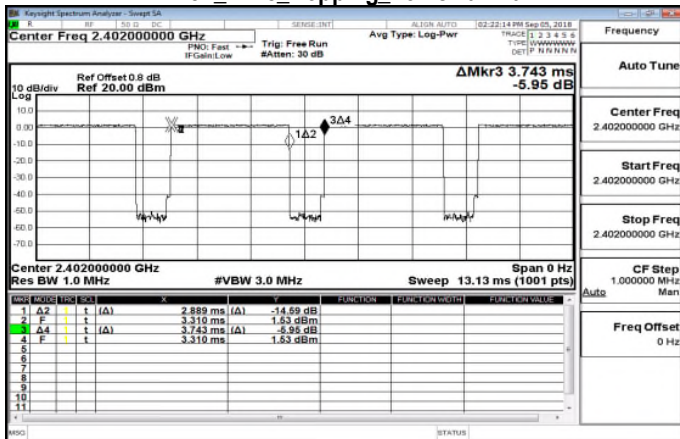
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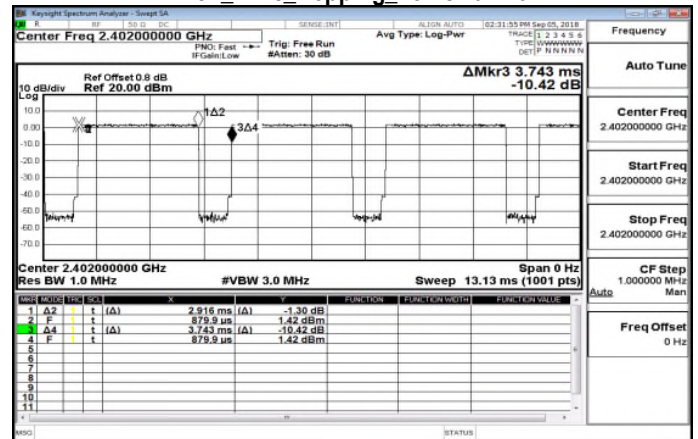
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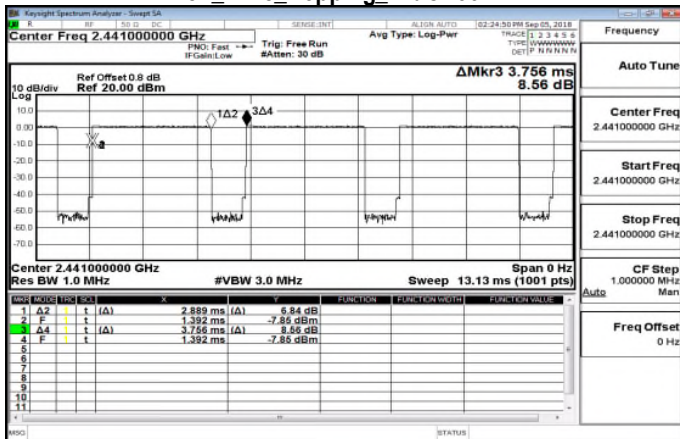
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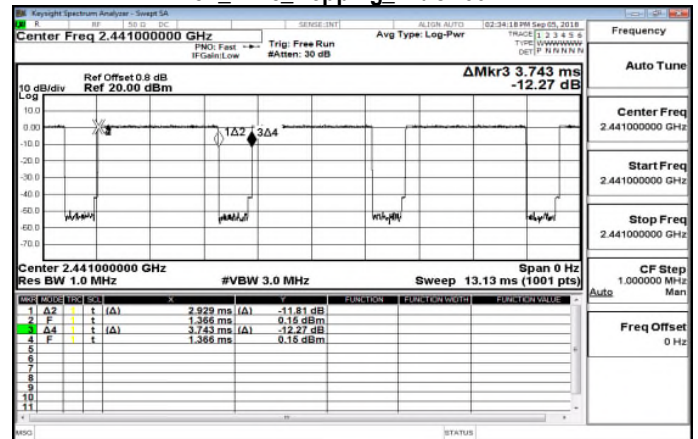
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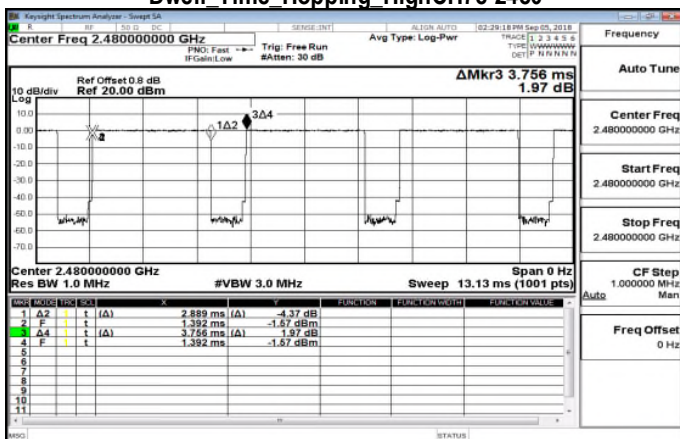
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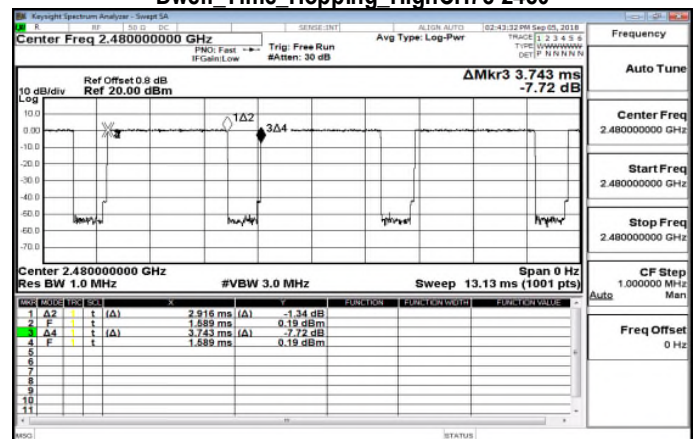
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Dwell Time Hopping HighCH78-2480



Dwell Time Hopping HighCH78-2480



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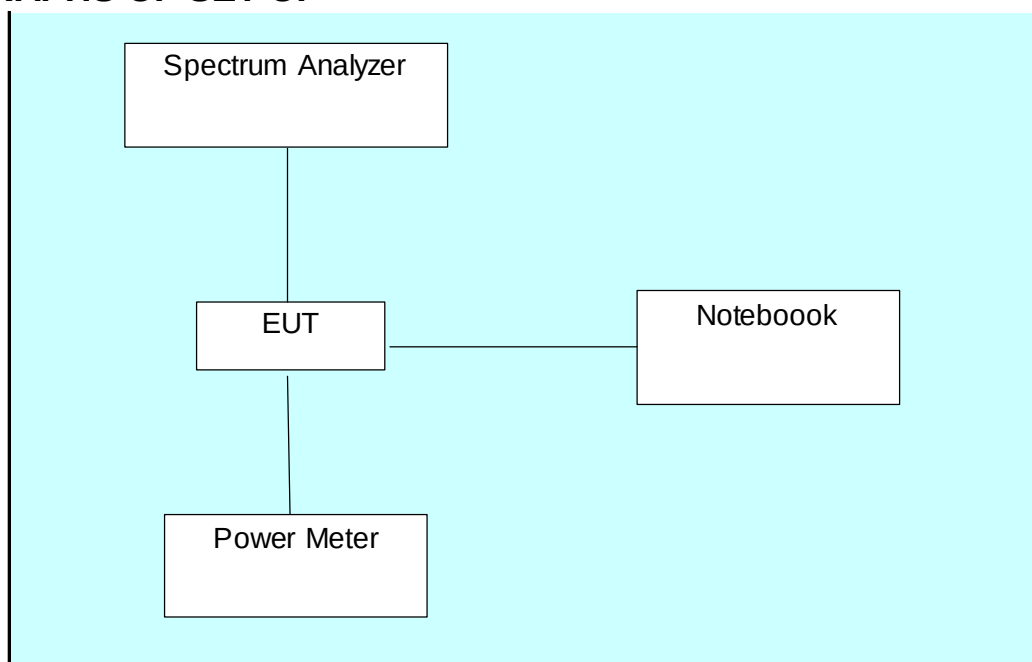
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PHOTOGRAPHS OF SET UP

*Test Setup*

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PHOTOGRAPHS OF EUT

Please refer to the attached file(EUT Photo)

~ End of Report ~

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