

3 DTS CHANNELS

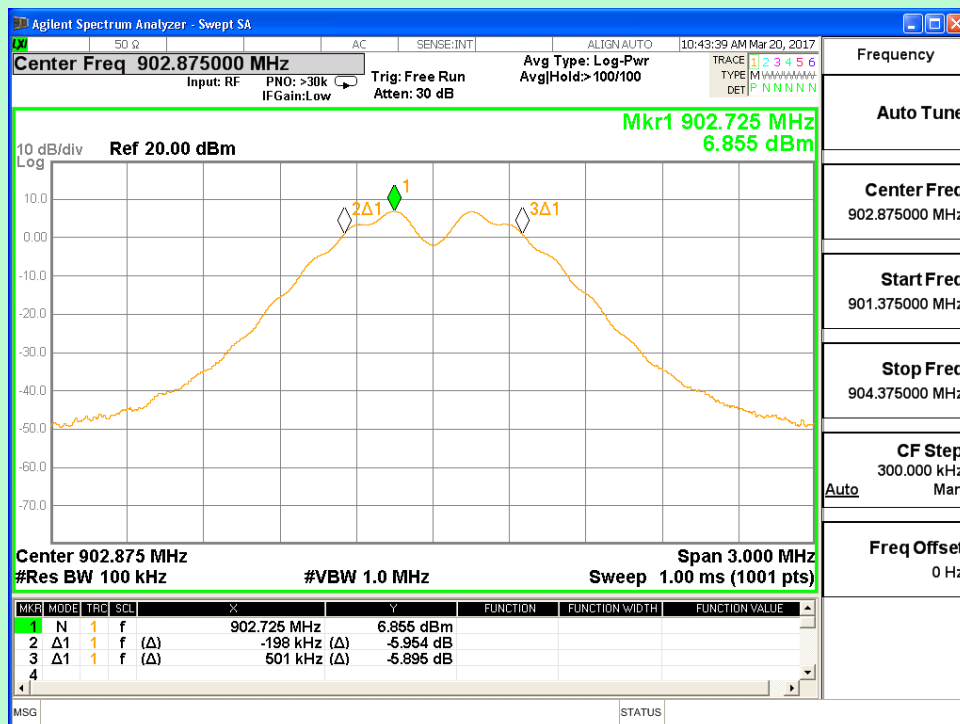
3.1 6dB BANDWIDTH

EUT Nomenclature	Wireless Pull Station	Test Request No.	EMC0208-1
Model No.	NBG-12WL	Serial No.	PS2-06
Test Start Date	20-Mar-2017	Temperature (°C)	23.6°C
Test End Date	20-Mar-2017	Humidity RH (%)	51.9%RH
Tested By	Sasikala	Pressure (mbar)	NR
Input Voltage / Freq.	3.3Vdc		
Operating Mode	Refer Page 5 for Operating Mode Table		
Test configuration	Refer Page 5 for Test Configuration Table		
Deviation from Std.	NA		
Applicable standard	FCC Part 15.247:2010		
Test Method	KDB 558074		
Comment	NA		
TEST DETAILS			
Method	Radiated ☐		Conducted ☒
TEST PARAMETERS			
Antenna Height	NA	Turntable Rotation	NA
Equipment Class	NA	Measurement Distance	NA

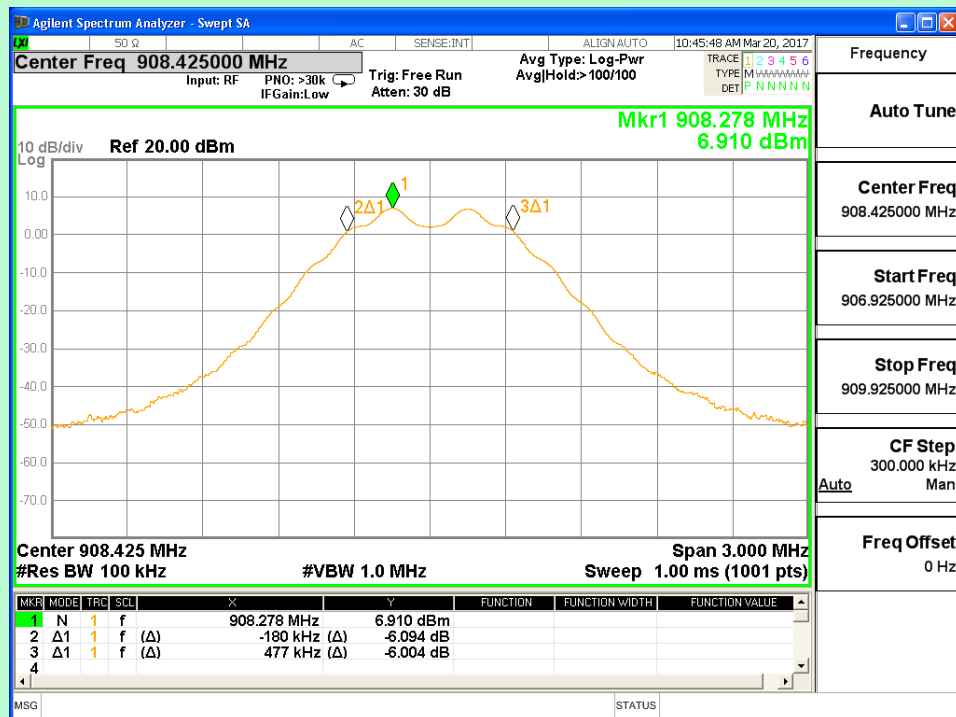
TEST EQUIPMENT

Y/N	Equipment	Make	Model	Serial Number	Cal Due Date
Y	Spectrum Analyzer	Agilent	N9010A	MY48031005	22-Feb-2018
Y	RF Cable	Huber- Suhner	SF104/2X11PC3542/500	NA	NA

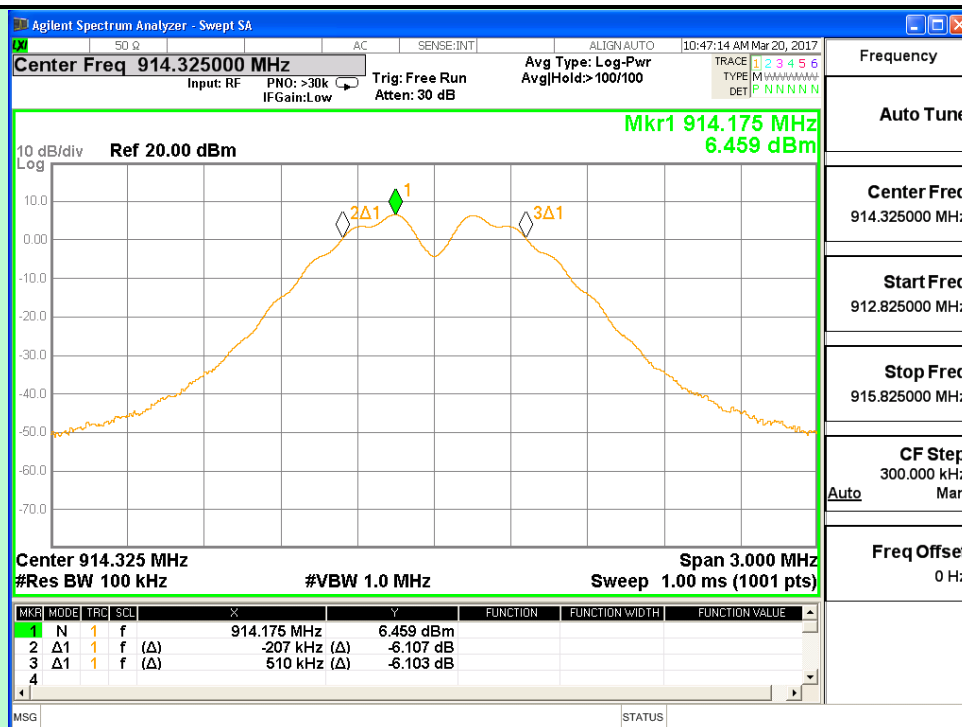
TEST GRAPHS



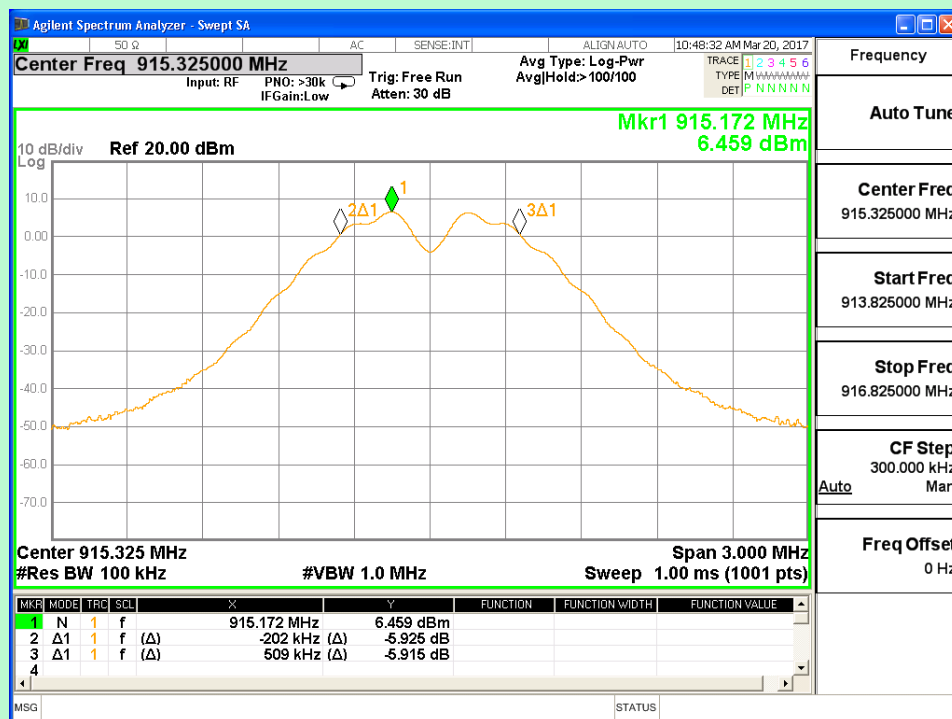
Channel 1 (902.875MHz)



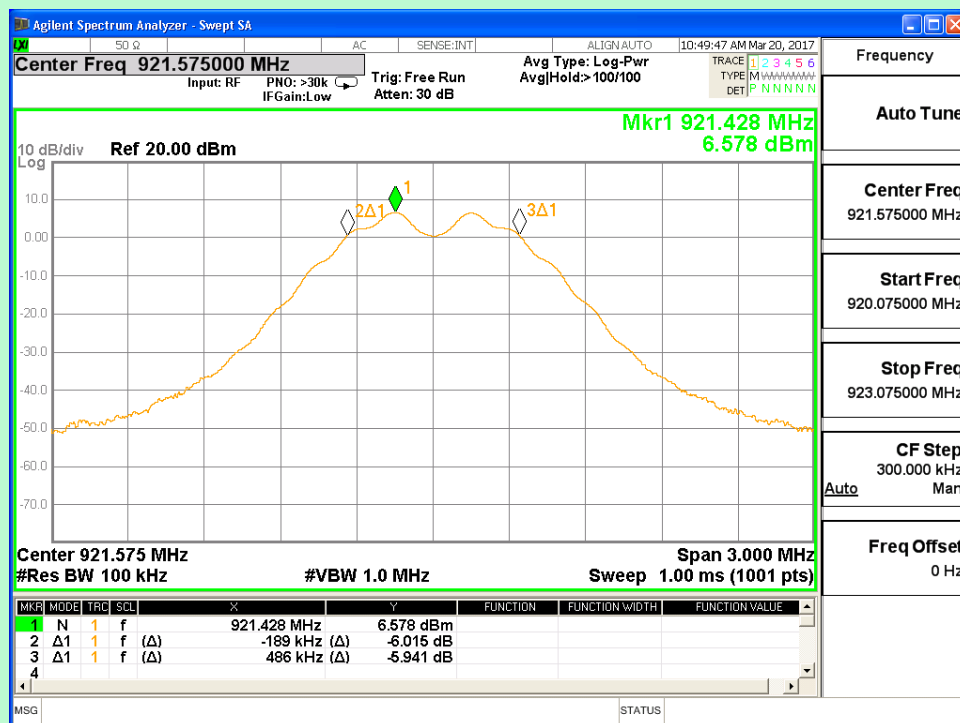
Channel 2 (908.425MHz)



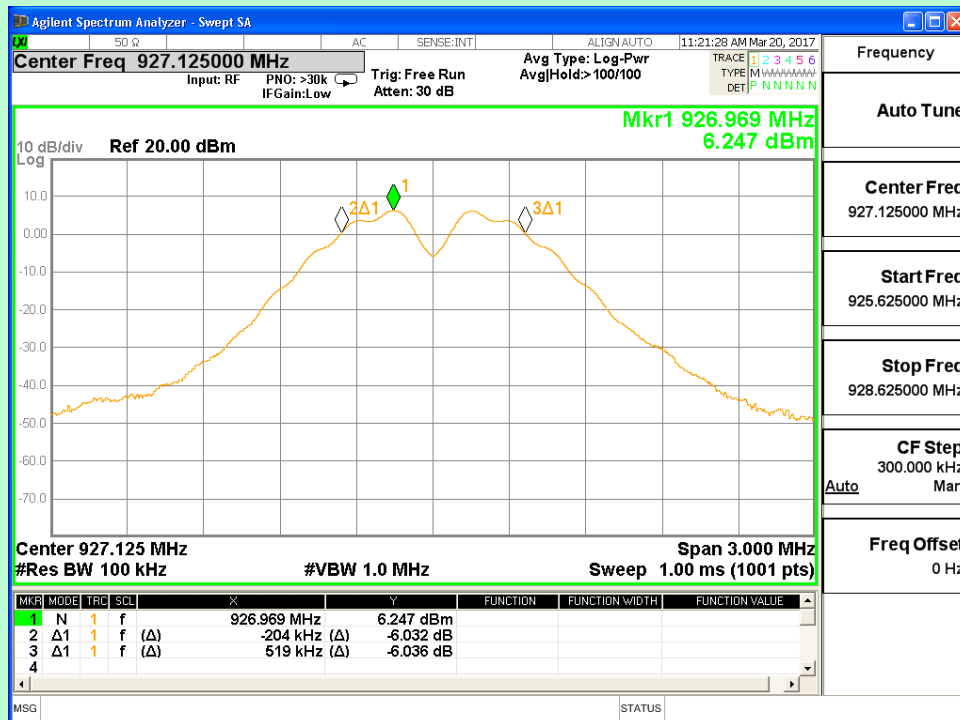
Channel 3 (914.325MHz)



Channel 4(915.325MHz)



Channel 5 (921.575MHz)



Channel 6 (927.125MHz)

TEST RESULT				
Channel	Frequency	Measured Bandwidth	Limit	Result
#	MHz	KHz	KHz	
1	902.875	699	>500	Pass
2	908.425	657	>500	Pass
3	914.325	717	>500	Pass
4	915.325	711	>500	Pass
5	921.575	675	>500	Pass
6	927.125	723	>500	Pass

TEST SETUP PHOTOGRAPH

Refer Annexure -1

Conducted RF Test setup

3.2 PEAK OUTPUT POWER

EUT Nomenclature	Wireless Pull Station	Test Request No.	EMC0208-1
Model No.	NBG-12WL	Serial No.	PS2-06
Test Start Date	20-Mar-2017	Temperature (°C)	23.6°C
Test End Date	20-Mar-2017	Humidity RH (%)	51.9%RH
Tested By	Sasikala	Pressure (mbar)	NR
Input Voltage / Freq.	3.3Vdc		
Operating Mode	Refer Page 5 for Operating Mode Table		
Test configuration	Refer Page 5 for Test Configuration Table		
Deviation from Std.	NA		
Applicable standard	FCC Part 15.247:2010		
Test Method	KDB 558074		
Comment	NA		

TEST DETAILS

Method	Radiated ☐	Conducted ☒
--------	-----------------------------------	---

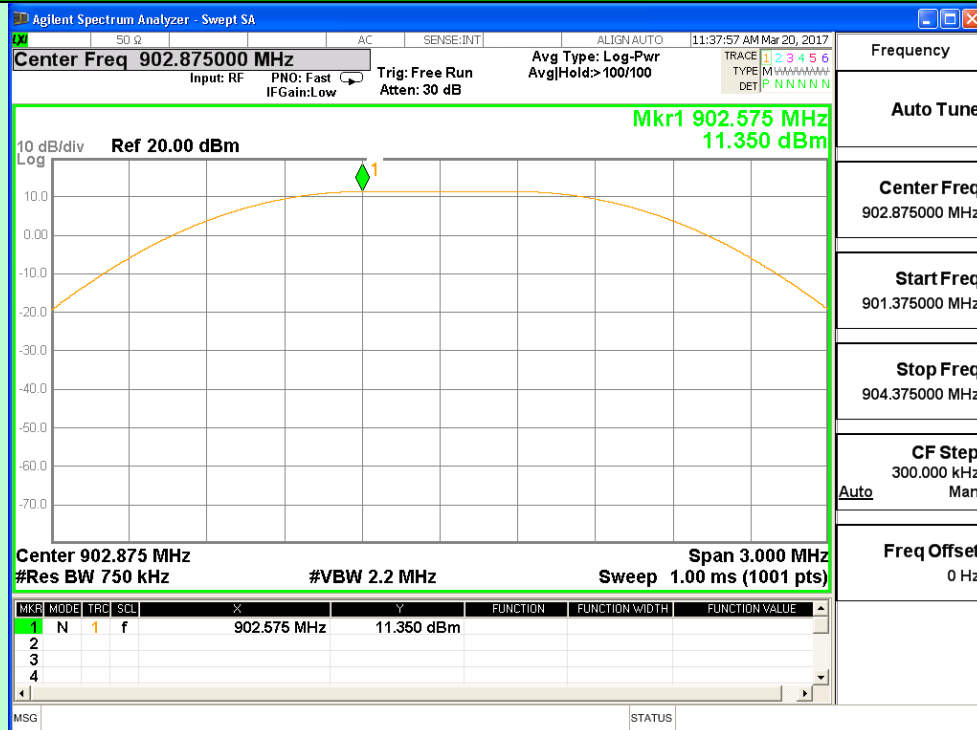
TEST PARAMETERS

Antenna Height	NA	Turntable Rotation	NA
Equipment Class	NA	Measurement Distance	NA

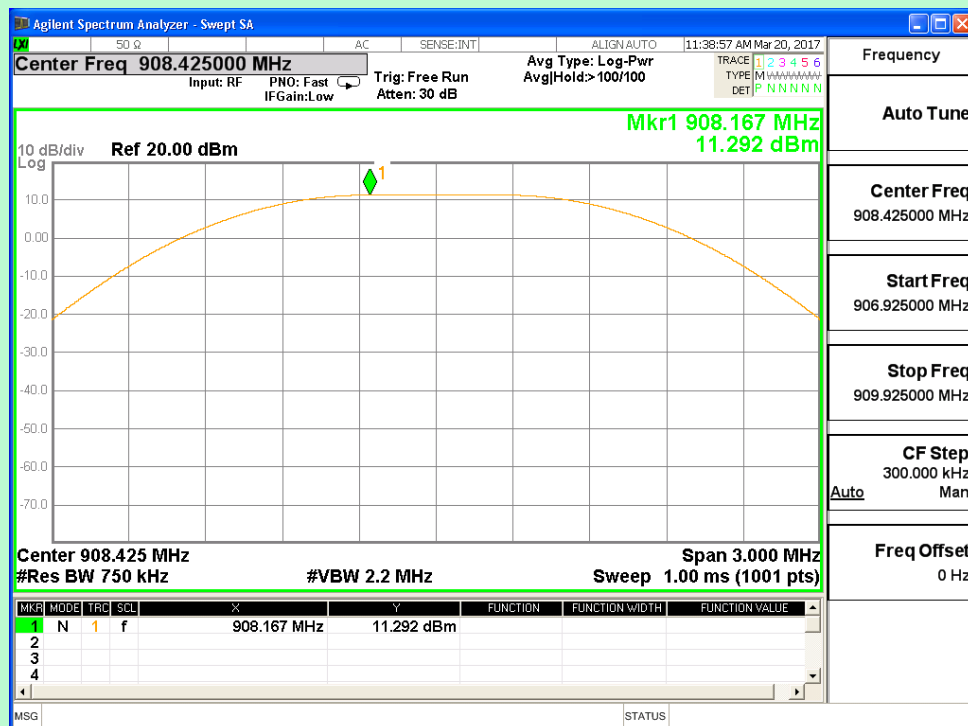
TEST EQUIPMENT

Y/N	Equipment	Make	Model	Serial Number	Cal Due Date
Y	Spectrum Analyzer	Agilent	N9010A	MY48031005	22-Feb-2018
Y	RF Cable	Huber- Suhner	SF104/2X11PC3542/500	NA	NA

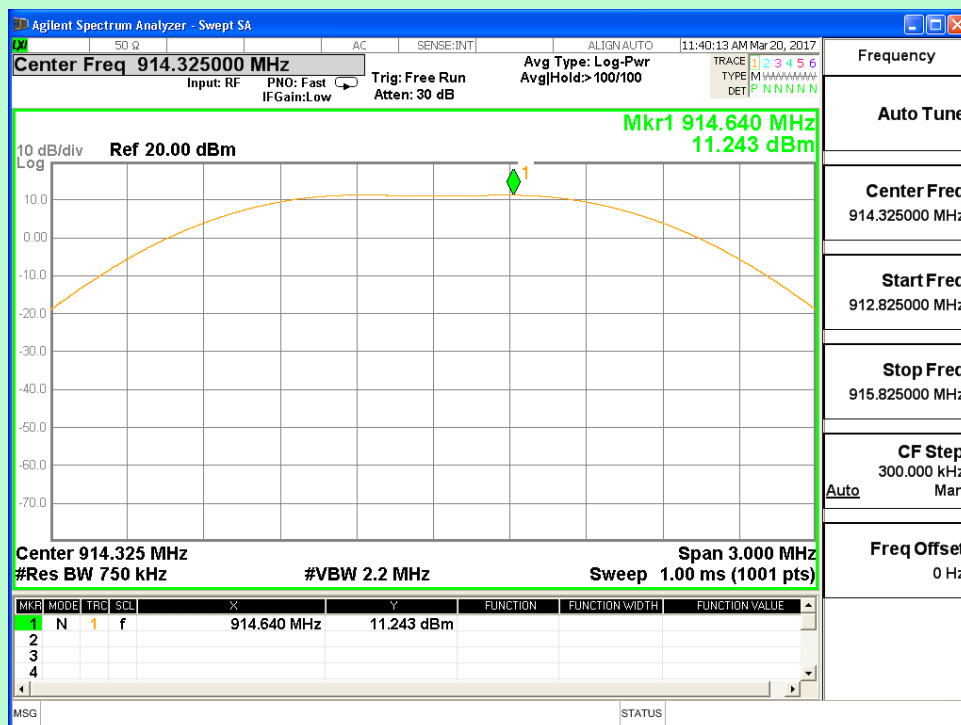
TEST GRAPHS



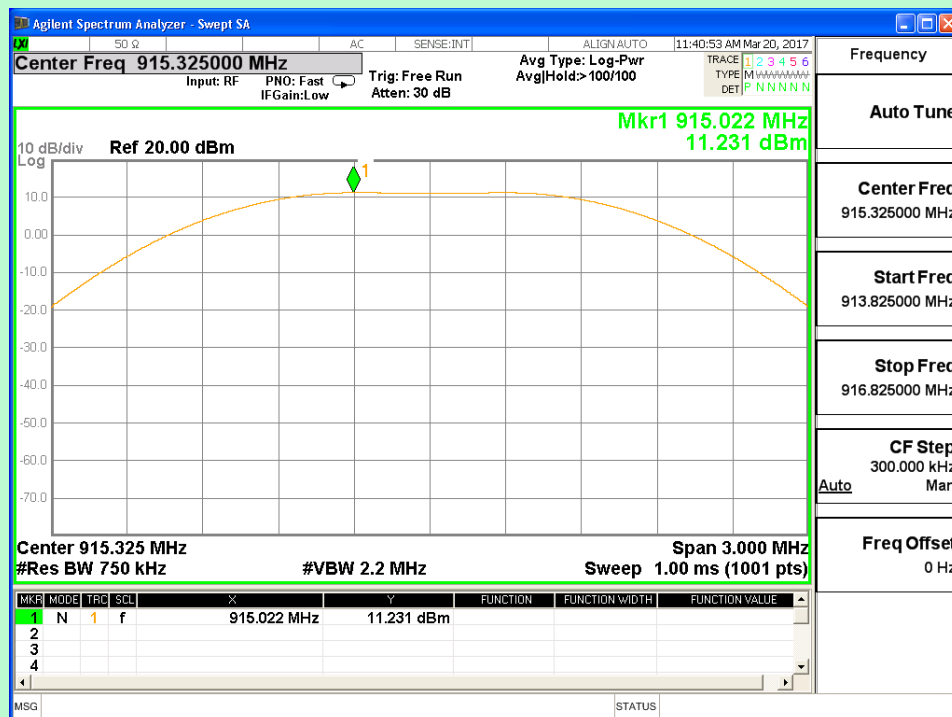
Antenna 1- Channel 1 (902.875MHz)



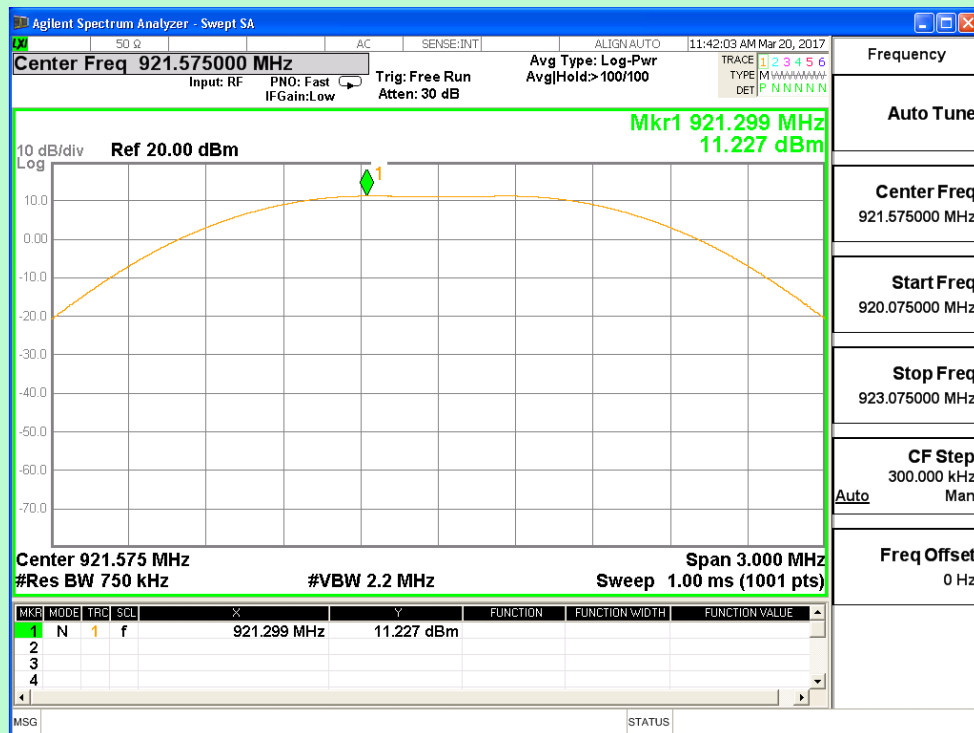
Antenna 1- Channel 2 (908.425MHz)



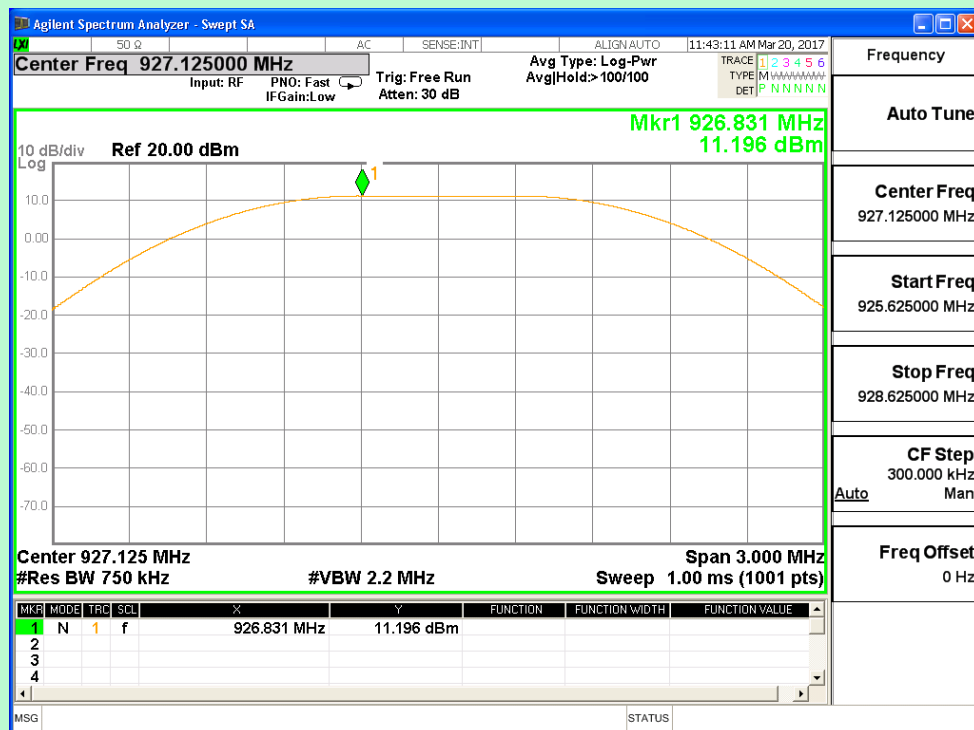
Antenna 1-Channel 3 (914.325MHz)



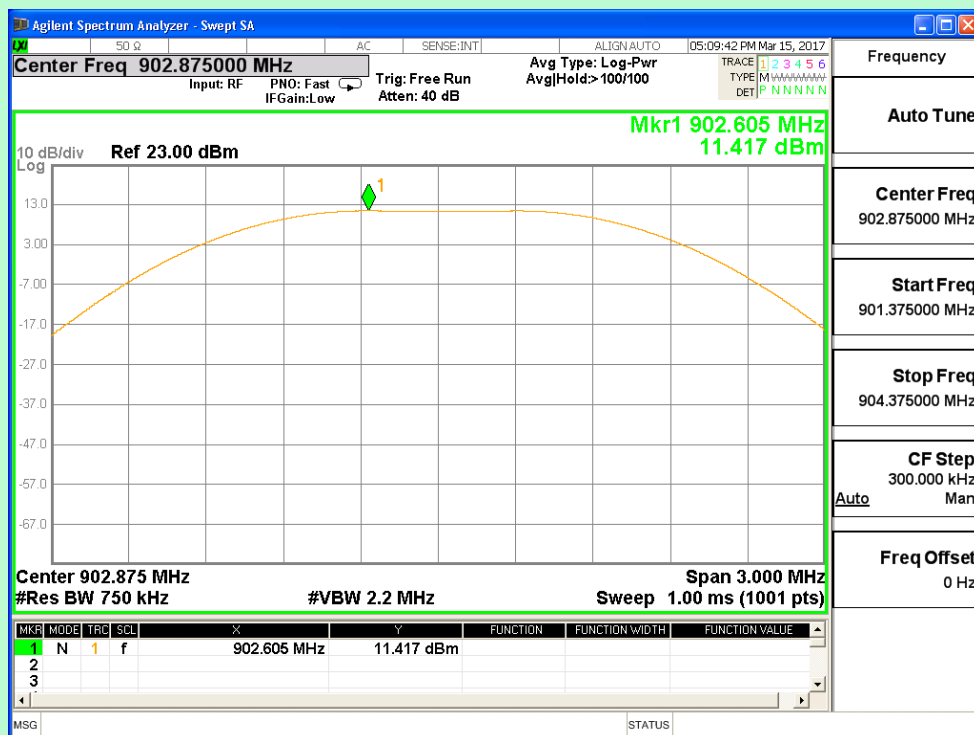
Antenna 1-Channel 4 (915.325MHz)



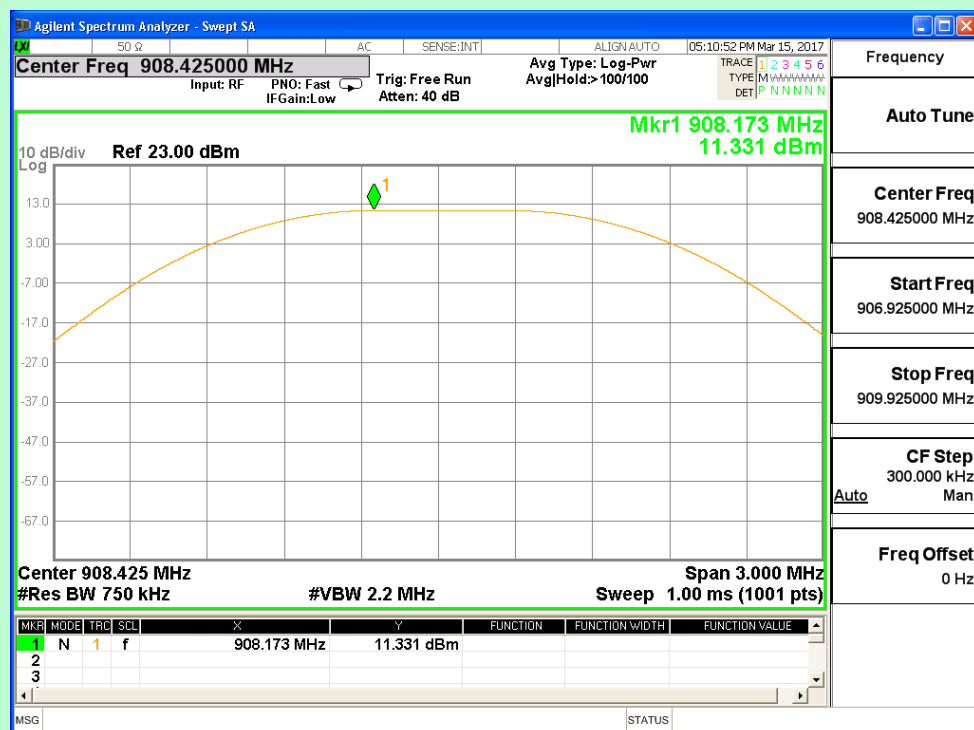
Antenna 1-Channel 5 (921.575MHz)



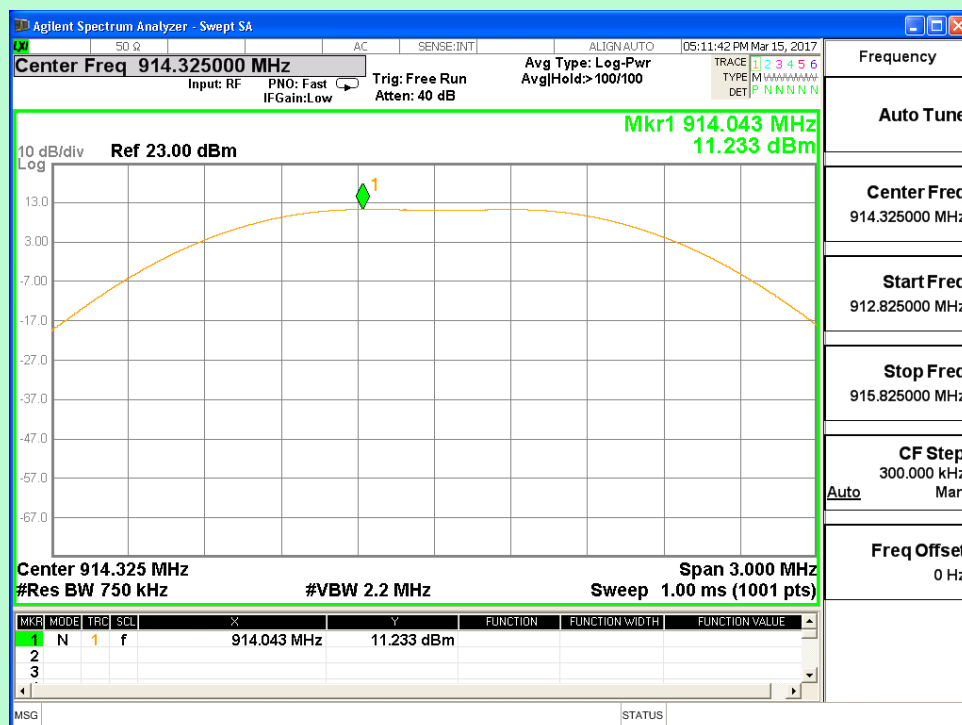
Antenna 1-Channel 6 (927.125MHz)



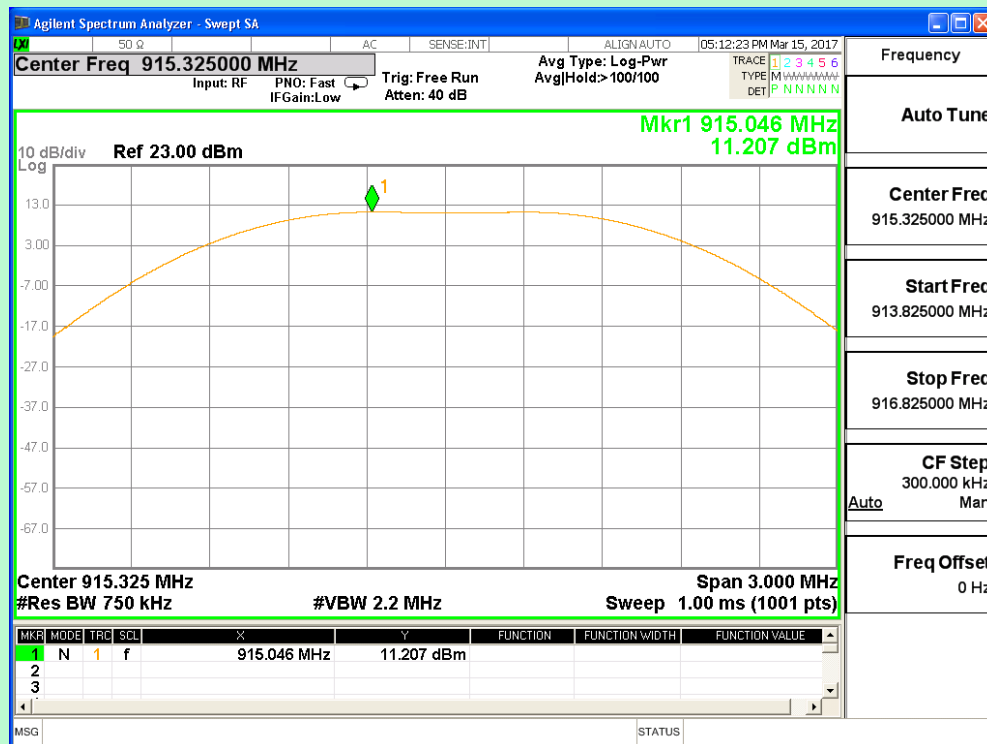
Antenna 2- Channel 1 (902.875MHz)



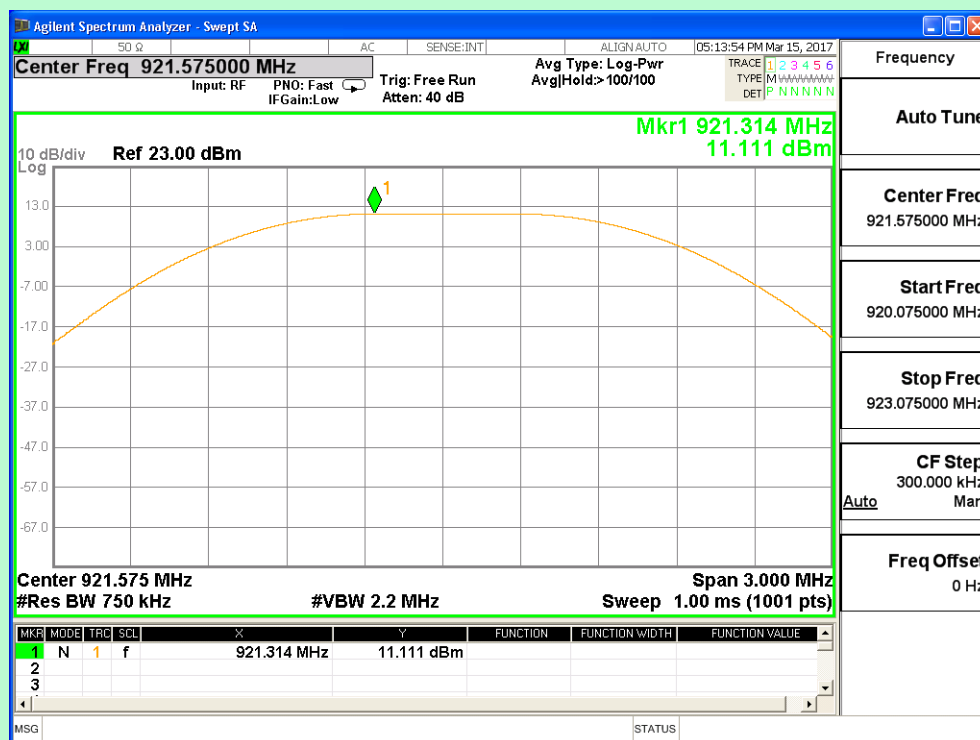
Antenna 2- Channel 2 (908.425MHz)



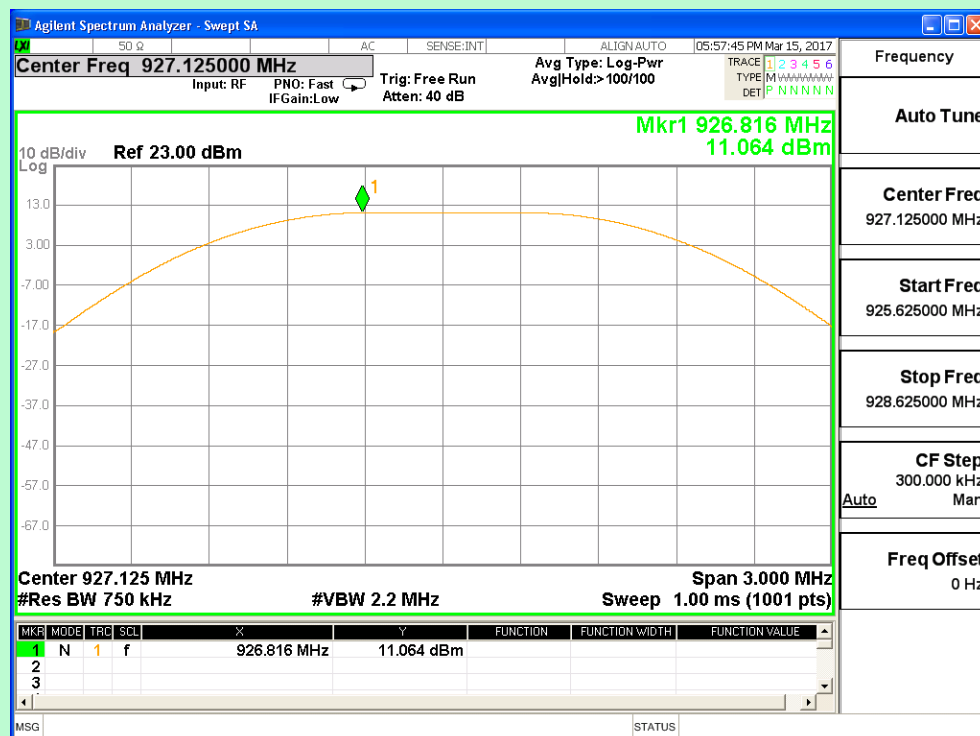
Antenna 2- Channel 3 (914.325MHz)



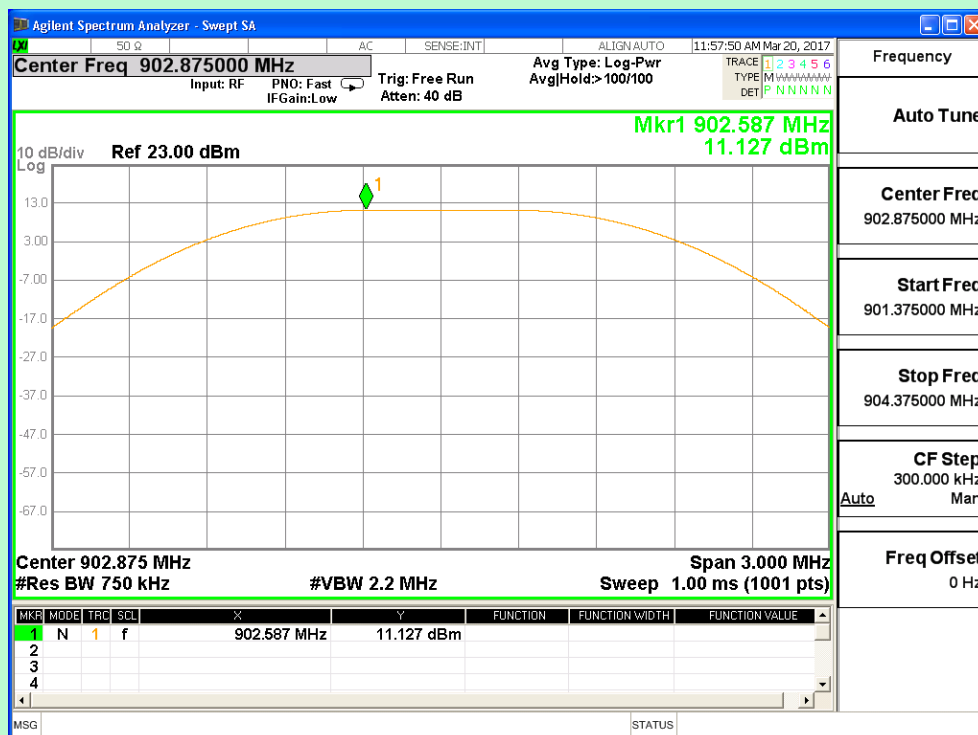
Antenna 2-Channel 4 (915.325MHz)



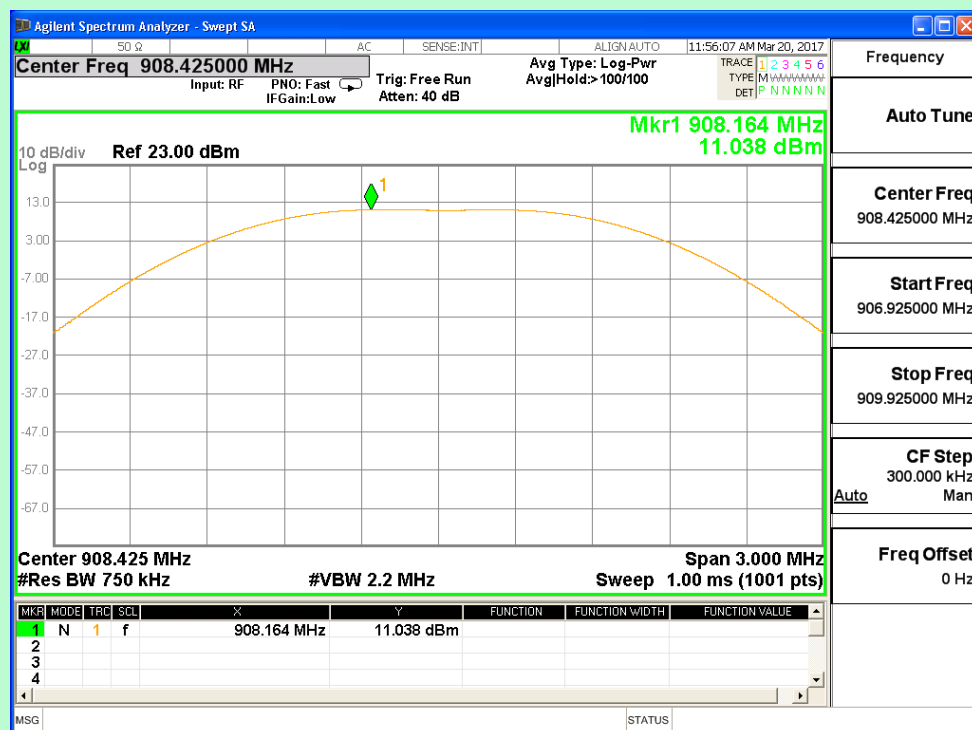
Antenna 2-Channel 5 (921.575MHz)



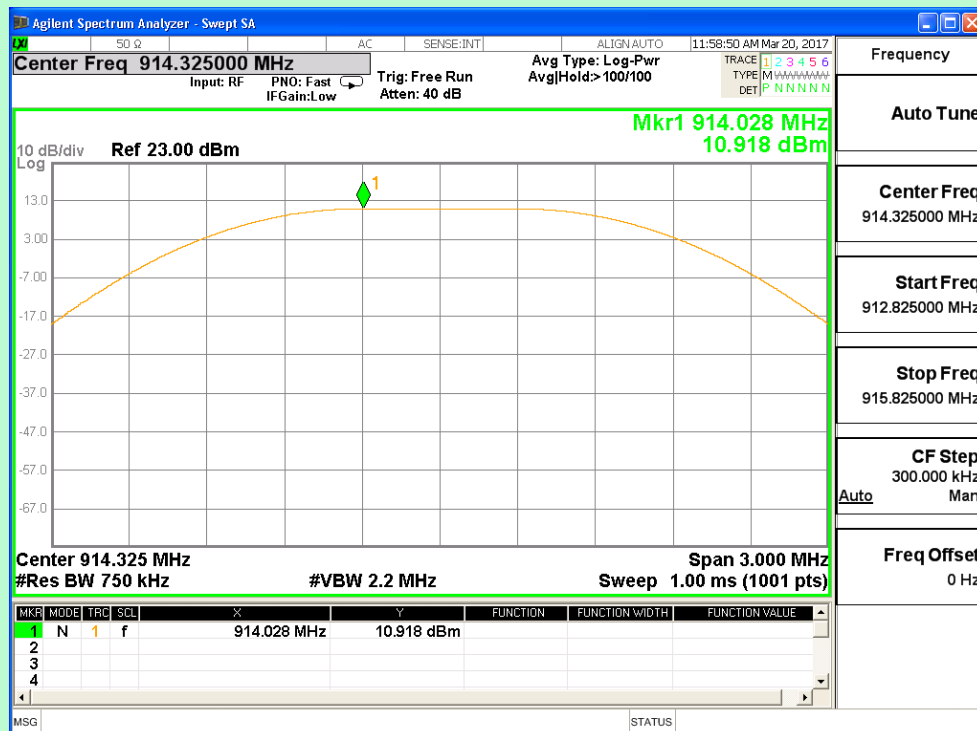
Antenna 2-Channel 6 (927.125MHz)



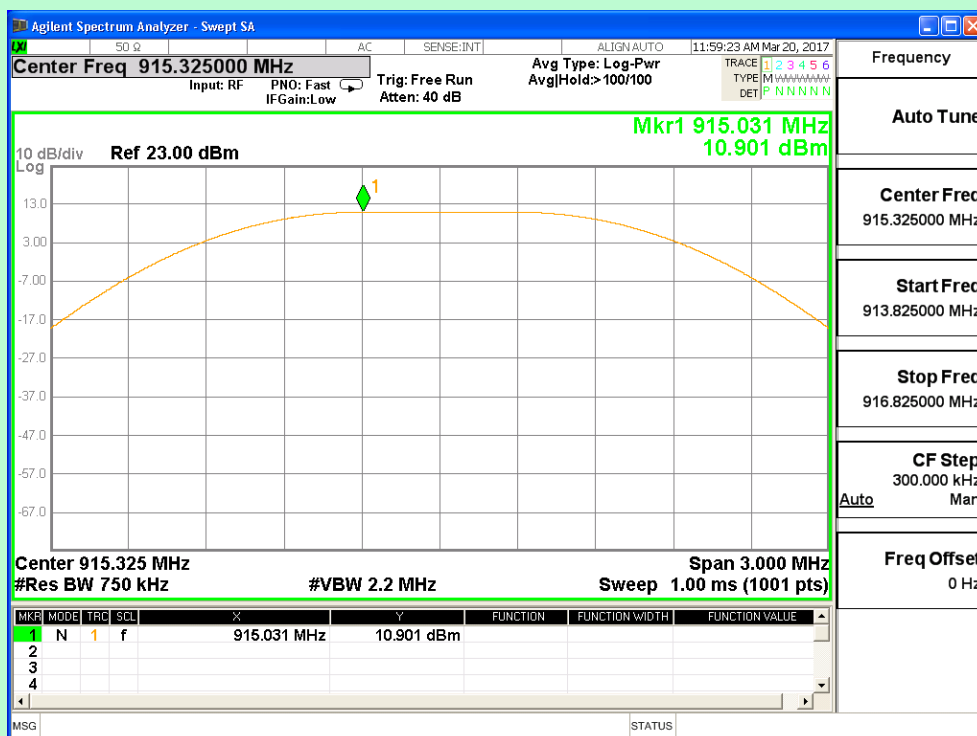
Antenna 3- Channel 1 (902.875MHz)



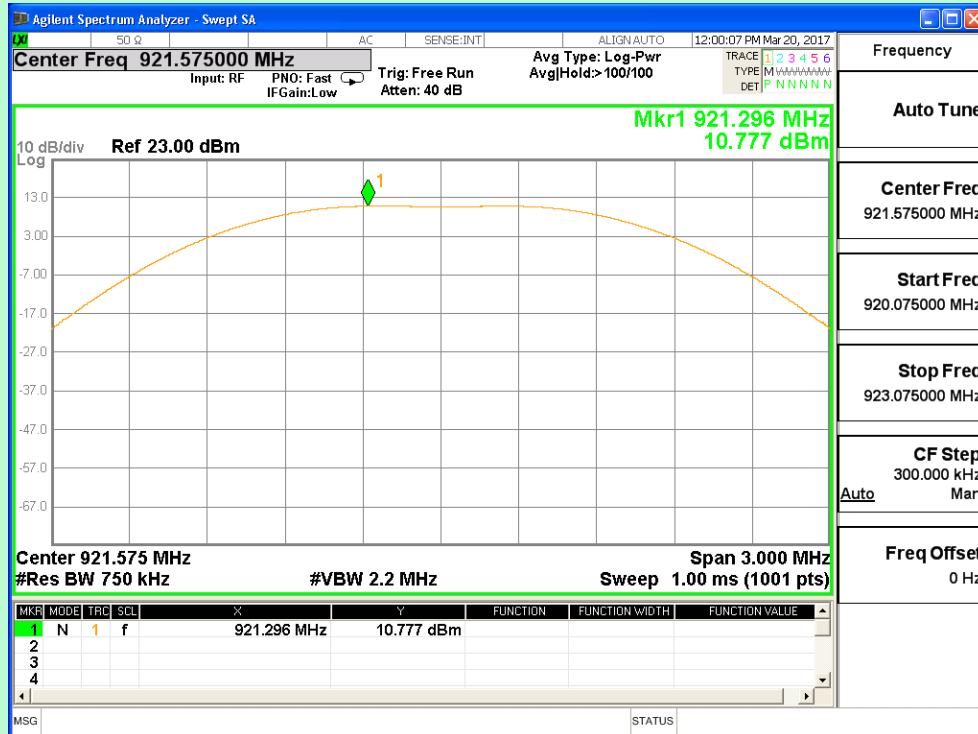
Antenna 3- Channel 2 (908.425MHz)



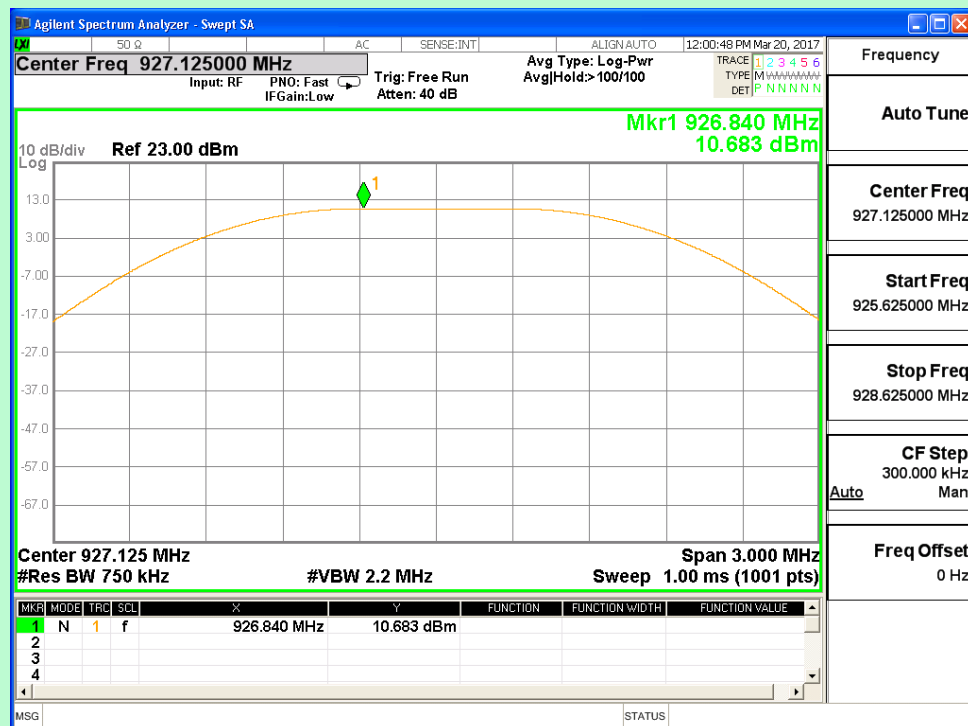
Antenna 3-Channel 3 (914.325MHz)



Antenna 3-Channel 4 (915.325MHz)



Antenna 3-Channel 5 (921.575MHz)



Antenna 3-Channel 6 (927.125MHz)

TEST RESULT						
Channel	Frequency	Measured Power Level	Cable Loss	Transmitter Power Level	Limit	Result
#	MHz	dBm	dB	dBm	dBm	
Antenna 1						
1	902.875	11.35	0.9	12.25	≤30	PASS
2	908.425	11.29	0.9	12.19	≤30	PASS
3	914.325	11.24	0.9	12.14	≤30	PASS
4	915.325	11.22	0.9	12.12	≤30	PASS
5	921.575	11.22	0.9	12.12	≤30	PASS
6	927.125	11.19	0.9	12.09	≤30	PASS
Antenna 2						
1	902.875	11.41	0.9	12.31	≤30	PASS
2	908.425	11.33	0.9	12.23	≤30	PASS
3	914.325	11.23	0.9	12.13	≤30	PASS
4	915.325	11.2	0.9	12.1	≤30	PASS
5	921.575	11.1	0.9	12	≤30	PASS
6	927.125	11.06	0.9	11.96	≤30	PASS
Antenna 3						
1	902.875	11.12	0.9	12.02	≤30	PASS
2	908.425	11.038	0.9	11.938	≤30	PASS
3	914.325	10.91	0.9	11.81	≤30	PASS
4	915.325	10.9	0.9	11.8	≤30	PASS
5	921.575	10.77	0.9	11.67	≤30	PASS
6	927.125	10.68	0.9	11.58	≤30	PASS
Note: Transmitter Output Power = Measured Level (dBm) + Cable Loss (dB)						

TEST SETUP PHOTOGRAPH

Refer Annexure -1

Conducted RF Test setup

3.3 MAXIMUM POWER SPECTRAL DENSITY

EUT Nomenclature	Wireless Pull Station	Test Request No.	EMC0208-1
Model No.	NBG-12WL	Serial No.	PS2-06
Test Start Date	20-Mar-2017	Temperature (°C)	23.6°C
Test End Date	20-Mar-2017	Humidity RH (%)	51.9%RH
Tested By	Sasikala	Pressure (mbar)	NR
Input Voltage / Freq.	3.3Vdc		
Operating Mode	Refer Page 5 for Operating Mode Table		
Test configuration	Refer Page 5 for Test Configuration Table		
Deviation from Std.	NA		
Applicable standard	FCC Part 15.247:2010		
Test Method	KDB 558074		
Comment	NA		

TEST DETAILS

Method	Radiated ☐	Conducted ☒
---------------	-----------------------------------	---

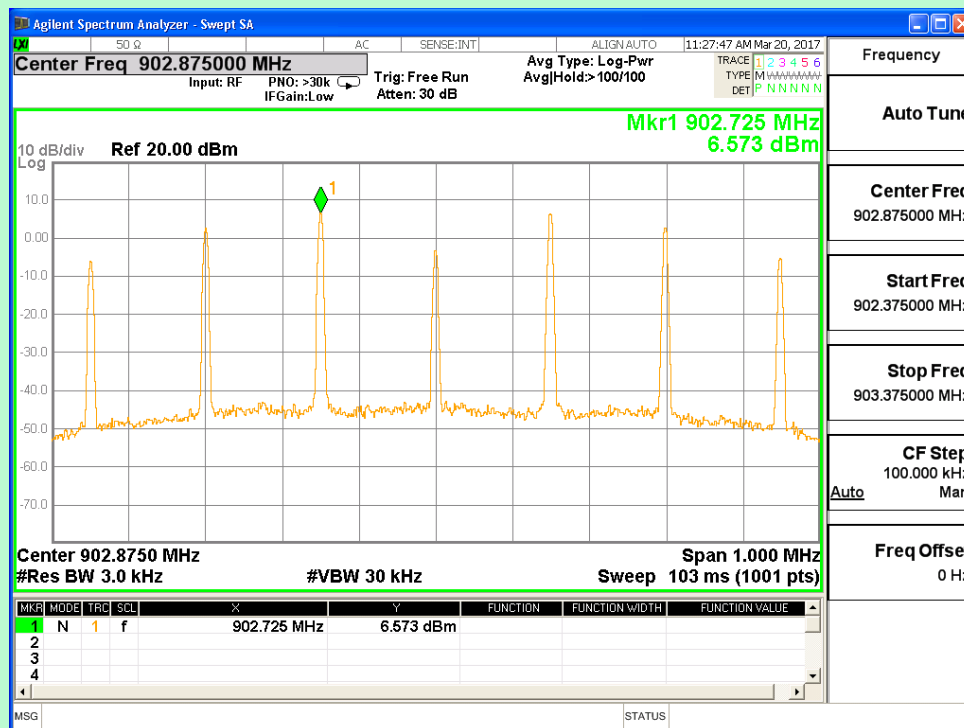
TEST PARAMETERS

Antenna Height	NA	Turntable Rotation	NA
Equipment Class	NA	Measurement Distance	NA

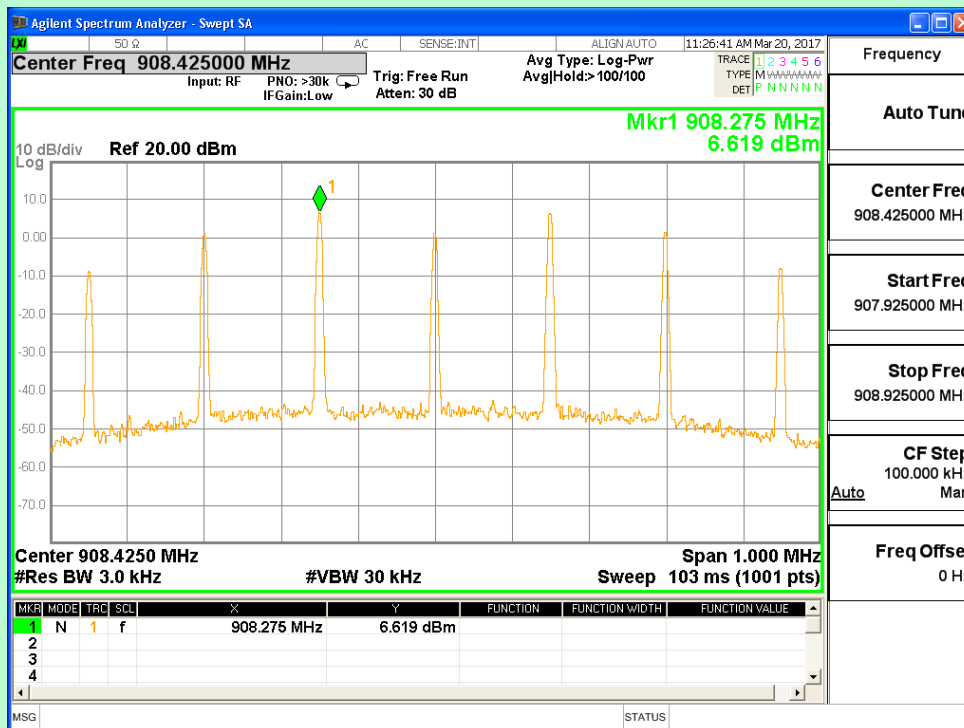
TEST EQUIPMENT

Y/N	Equipment	Make	Model	Serial Number	Cal Due Date
Y	Spectrum Analyzer	Agilent	N9010A	MY48031005	22-Feb-2018
Y	RF Cable	Huber- Suhner	SF104/2X11PC3542/500	NA	NA

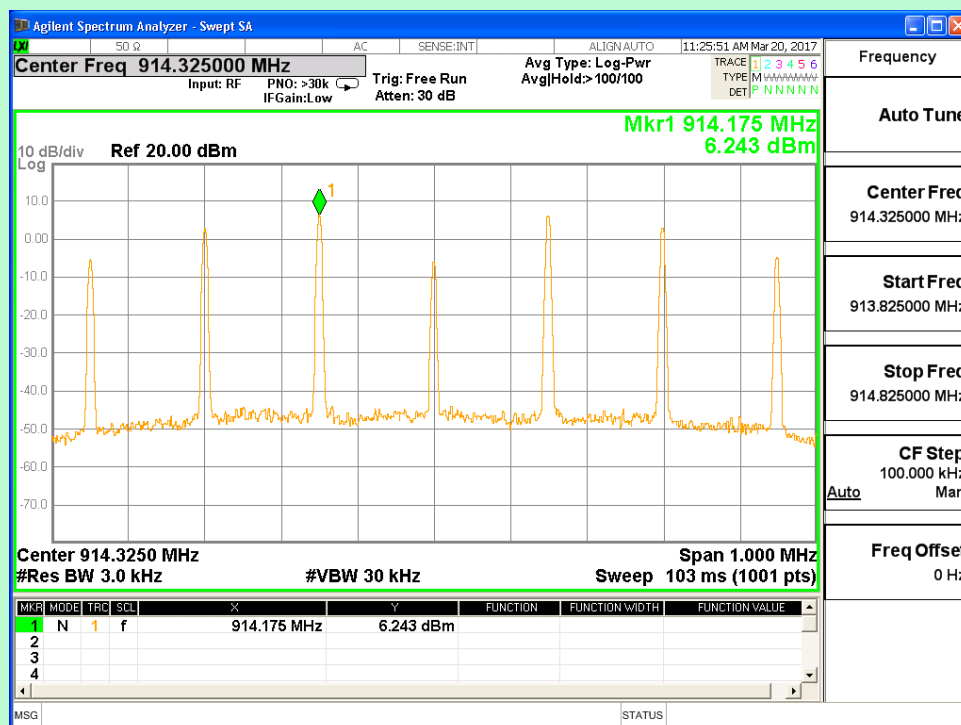
TEST GRAPHS



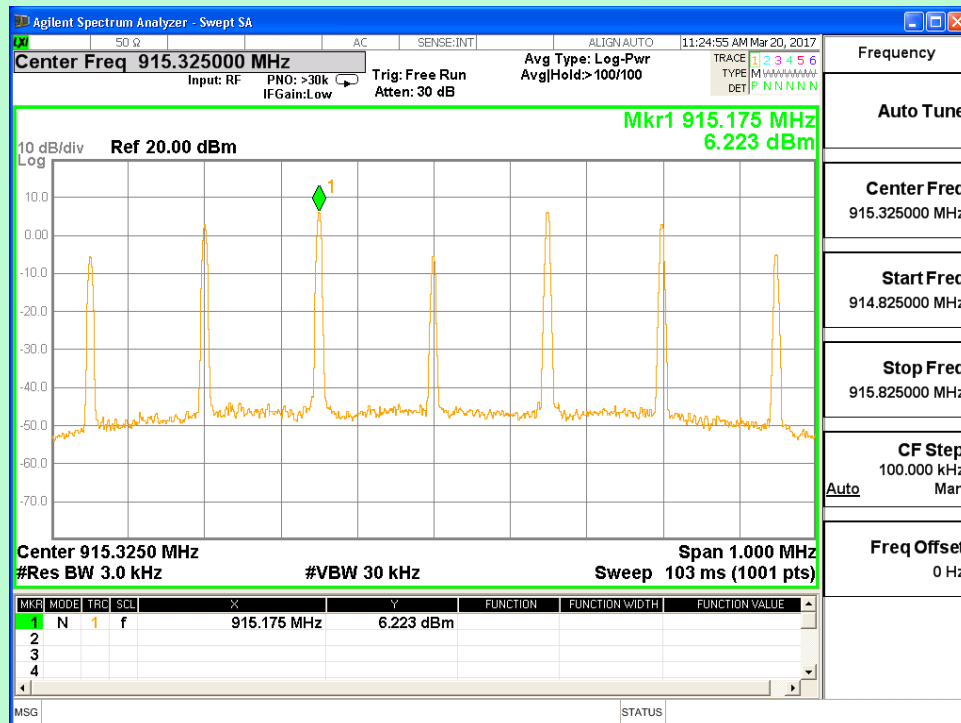
Channel 1 (902.875MHz)



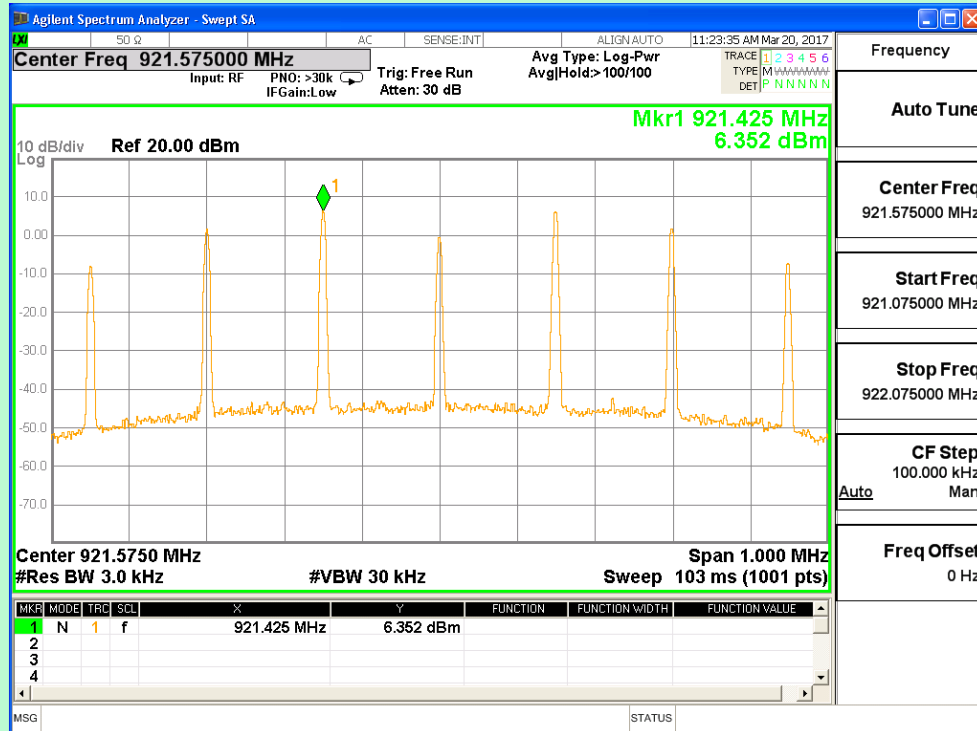
Channel 2 (908.425MHz)



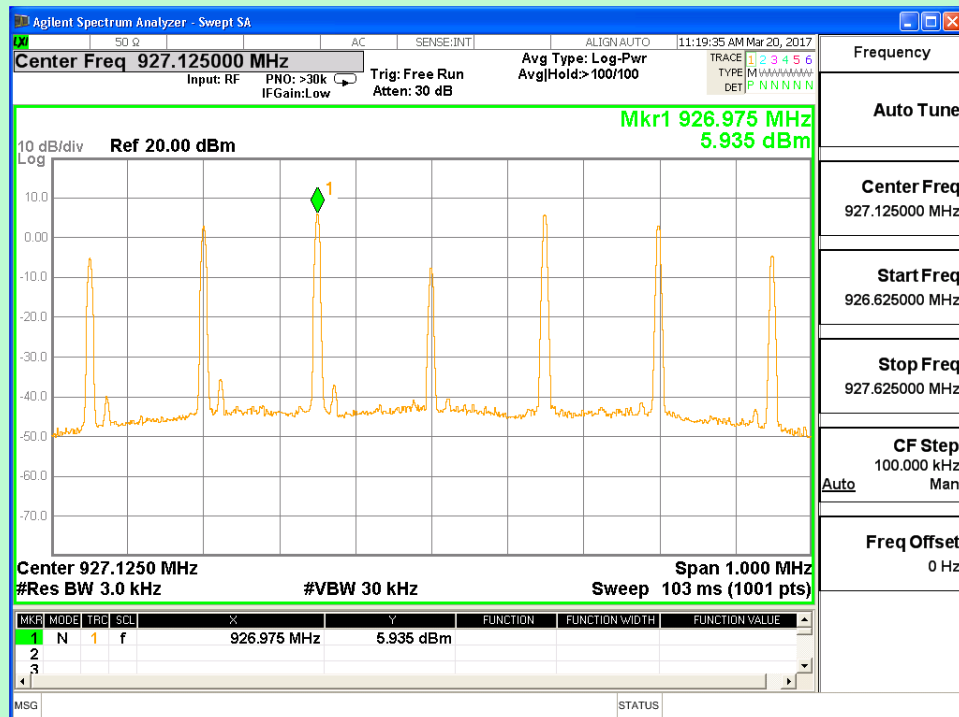
Channel 3 (914.325MHz)



Channel 4(915.325MHz)



Channel 5 (921.575MHz)



Channel 6 (927.125MHz)

TEST RESULT				
Channel	Frequency	Measured Level	Limit	Result
#	MHz	dBm/3KHz	dBm/3KHz	
1	902.875	6.56	<8	Pass
2	908.425	6.61	<8	Pass
3	914.325	6.22	<8	Pass
4	915.325	6.22	<8	Pass
5	921.575	6.35	<8	Pass
6	927.125	5.93	<8	Pass

TEST SETUP PHOTOGRAPH

Refer Annexure -1

Conducted RF Test setup

3.4 BAND EDGE COMPLIANCE

EUT Nomenclature	Wireless Pull Station	Test Request No.	EMC0208-1
Model No.	NBG-12WL	Serial No.	PS2-06
Test Start Date	20-Mar-2017	Temperature (°C)	23.6°C
Test End Date	20-Mar-2017	Humidity RH (%)	51.9%RH
Tested By	Sasikala	Pressure (mbar)	NR
Input Voltage / Freq.	3.3Vdc		
Operating Mode	Refer Page 5 for Operating Mode Table		
Test configuration	Refer Page 5 for Test Configuration Table		
Deviation from Std.	NA		
Applicable standard	FCC Part 15.247:2010		
Test Method	KDB 558074		
Comment	NA		

TEST DETAILS

Method	Radiated ☐	Conducted ☒
--------	-----------------------------------	---

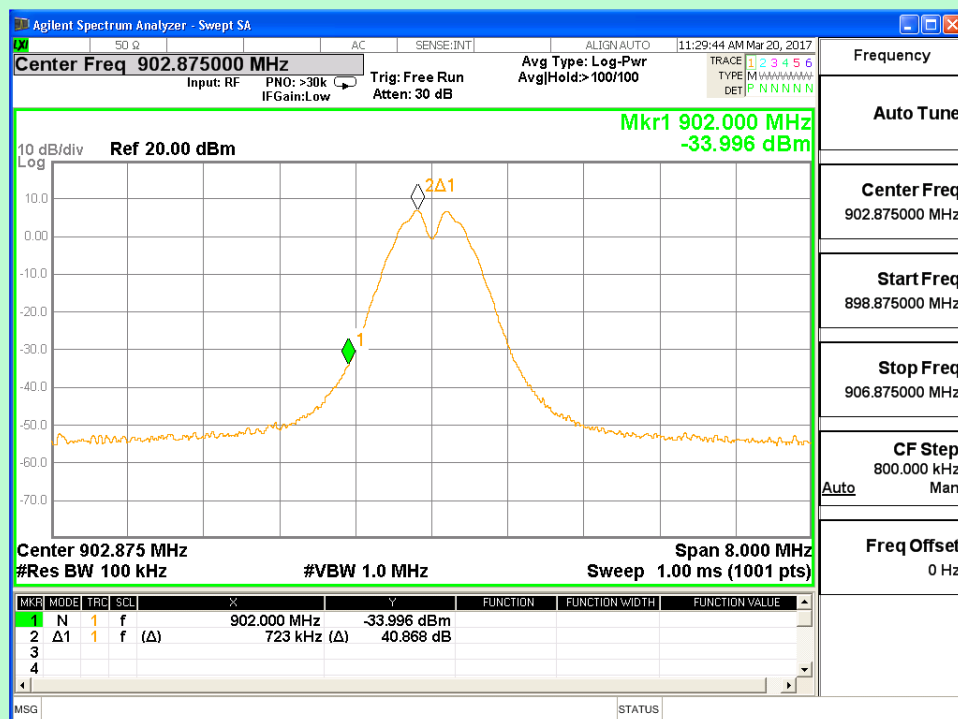
TEST PARAMETERS

Antenna Height	NA	Turntable Rotation	NA
Equipment Class	NA	Measurement Distance	NA

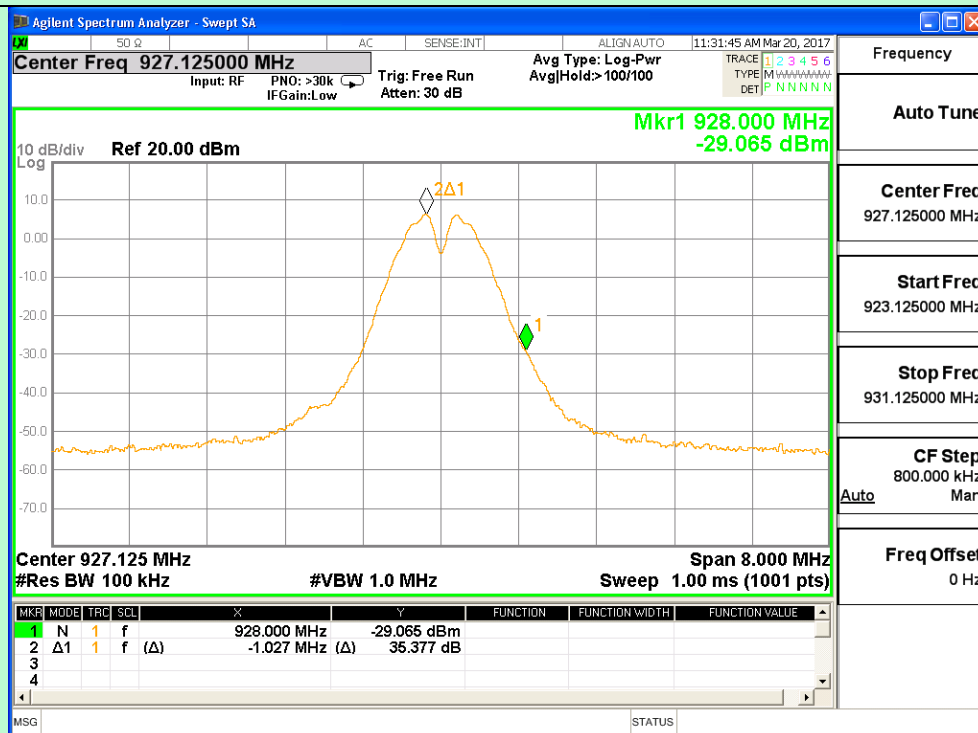
TEST EQUIPMENT

Y/N	Equipment	Make	Model	Serial Number	Cal Due Date
Y	Spectrum Analyzer	Agilent	N9010A	MY48031005	22-Feb-2018
Y	RF Cable	Huber- Suhner	SF104/2X11PC3542/500	NA	NA

TEST GRAPHS



Channel 1 (902.875MHz)



Channel 6 (927.125MHz)

TEST RESULT				
Channel	Frequency	Measured Level	Limit	Result
#	MHz	dBm/3KHz	dBm/3KHz	
1	902.875	40.86	>20	Pass
6	927.125	35.37	>20	Pass

TEST SETUP PHOTOGRAPH
Refer Annexure -1
Conducted RF Test setup