

Lower Band Edge Measurement Results

Channel Frequency (MHz)	Nominal Channel BW (MHz)	EARFCN	Resource Blocks	RB Offset	Modulation	Emission Frequency (MHz)	Measured Emission (dBm)	Limit (dBm)	Margin (dB)
1880	1.4	18900	1	3	QPSK	-	ND	-13.00	-
1880	1.4	18900	1	3	QPSK	-	ND		-
1880	1.4	18900	1	3	QPSK	-	ND		-
1880	1.4	18900	1	3	QPSK	-	ND		-
1880	1.4	18900	1	3	QPSK	-	ND		-
1880	1.4	18900	1	3	QPSK	-	ND		-
836.5	1.4	20525	1	3	QPSK	-	ND		-
836.5	1.4	20525	1	3	QPSK	1674.0	-43.17		30.2
836.5	1.4	20525	1	3	QPSK	-	ND		-
836.5	1.4	20525	1	3	QPSK	1673.0	-39.44		26.4
707.5	1.4	23095	1	3	QPSK	-	ND		-
707.5	1.4	23095	1	3	QPSK	1414.0	-41.77		28.8
707.5	1.4	23095	1	3	QPSK	-	ND		-
707.5	1.4	23095	1	3	QPSK	1414.0	-35.63		22.6
									Complies

Margin = Limit - Band Edge Emission

ND: None Detected. Noise Floor Measurement

Conducted Spurious Emissions LTE Band 2

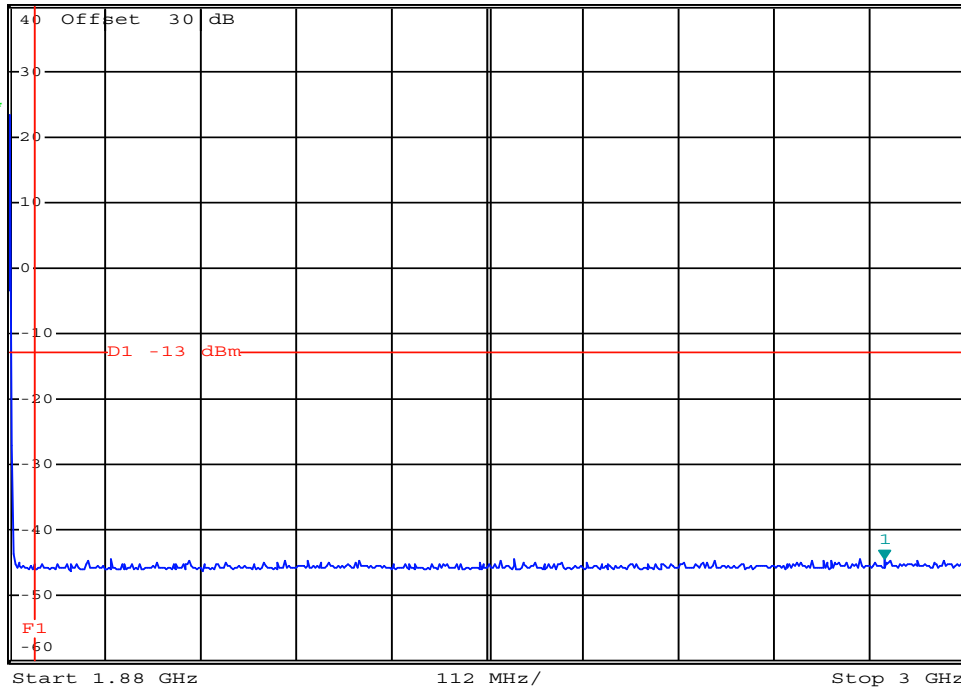


*RBW 1 MHz Marker 1 [T1]
 VBW 10 MHz -44.35 dBm
 SWT 10 ms 2.905920000 GHz

Ref 40 dBm

*Att 10 dB

1 RM
 VIEW



Date: 25.APR.2021 09:47:48

Channel Frequency (MHz): 1880.0	Channel Bandwidth (MHz): 1.4	Emission Frequency (MHz): -
EARFCN: 18900	Resource Blocks (RB): 1	
RB Offset: 3	Modulation: QPSK	Measured Emission (dBm): ND

Conducted Spurious Emissions LTE Band 2

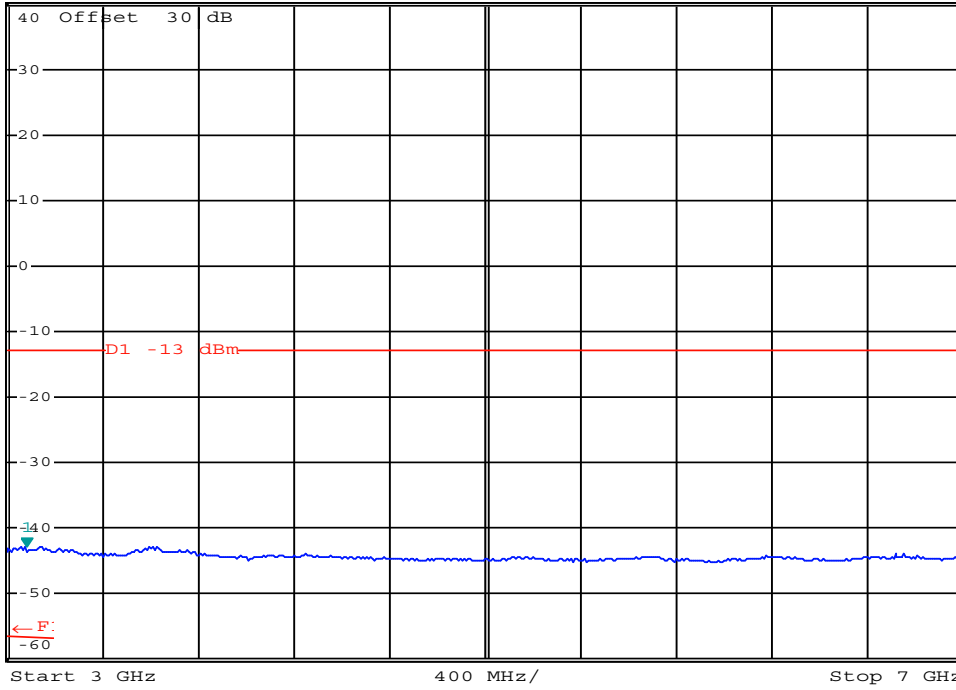


*RBW 1 MHz Marker 1 [T1]
 VBW 10 MHz -42.76 dBm
 SWT 80 ms 3.076000000 GHz

Ref 40 dBm

*Att 10 dB

1 RM
 AVG



Date: 25.APR.2021 09:48:55

Channel Frequency (MHz): 1880.0	Channel Bandwidth (MHz): 1.4	Emission Frequency (MHz): -
EARFCN: 18900	Resource Blocks (RB): 1	
RB Offset: 3	Modulation: QPSK	Measured Emission (dBm): ND

Conducted Spurious Emissions LTE Band 2

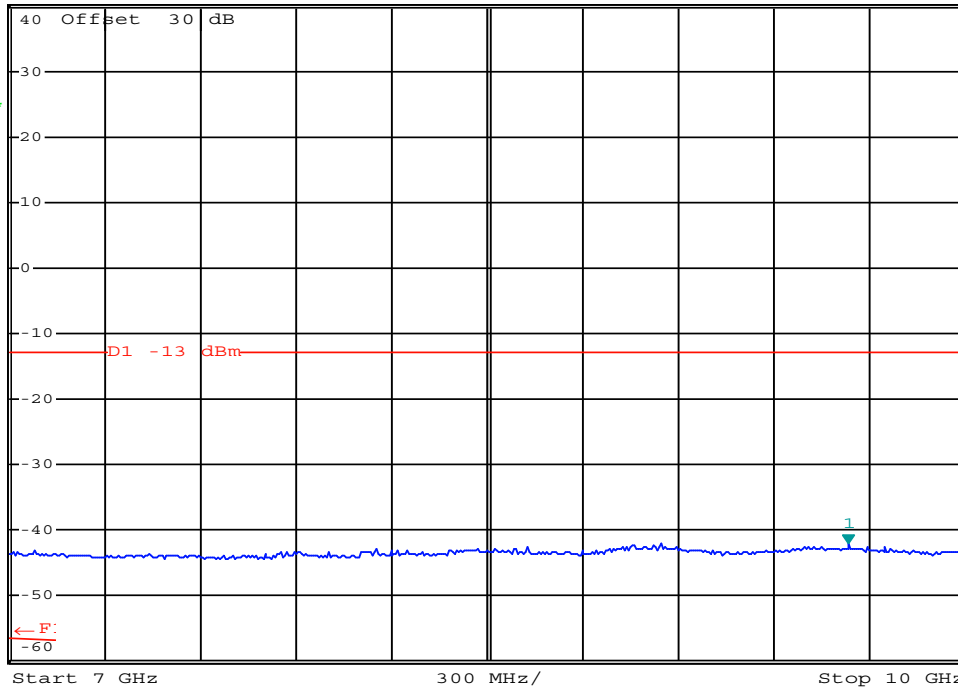


*RBW 1 MHz Marker 1 [T1]
 VBW 10 MHz -42.08 dBm
 SWT 60 ms 9.631000000 GHz

Ref 40 dBm

*Att 10 dB

1 RM*
VIEW



Date: 25.APR.2021 09:49:52

Channel Frequency (MHz): 1880.0	Channel Bandwidth (MHz): 1.4	Emission Frequency (MHz): -
EARFCN: 18900	Resource Blocks (RB): 1	
RB Offset: 3	Modulation: QPSK	Measured Emission (dBm): ND

Conducted Spurious Emissions LTE Band 2

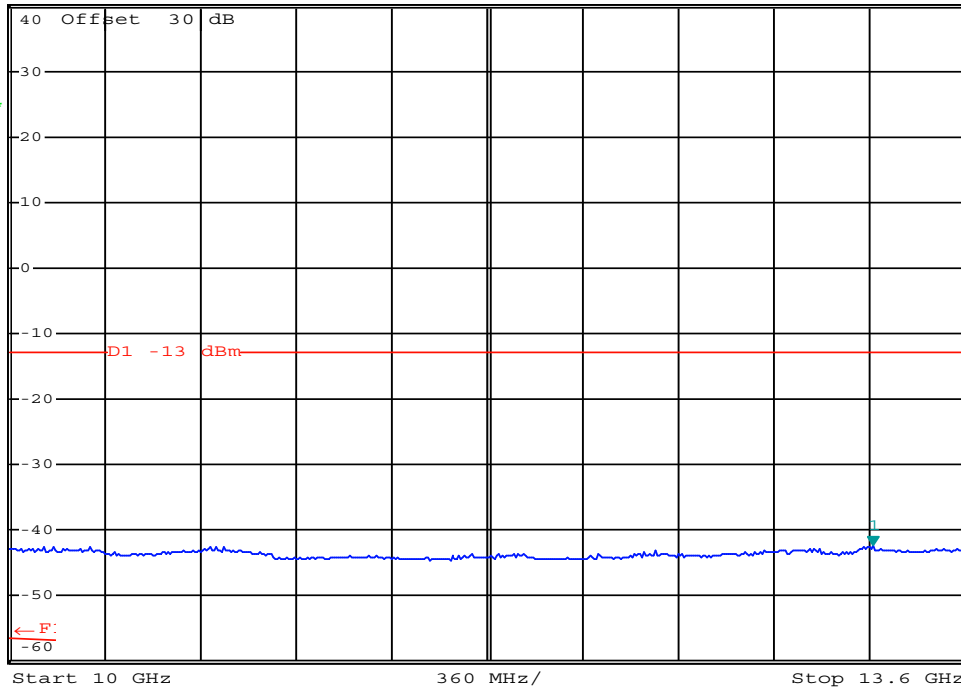


*RBW 1 MHz Marker 1 [T1]
 VBW 10 MHz -42.41 dBm
 SWT 75 ms 13.254400000 GHz

Ref 40 dBm

*Att 10 dB

1 RM*
 VIEW



Date: 25.APR.2021 09:50:48

Channel Frequency (MHz): 1880.0	Channel Bandwidth (MHz): 1.4	Emission Frequency (MHz): -
EARFCN: 18900	Resource Blocks (RB): 1	
RB Offset: 3	Modulation: QPSK	Measured Emission (dBm): ND

Conducted Spurious Emissions LTE Band 2



*RBW 1 MHz Marker 1 [T1]
 VBW 10 MHz -32.81 dBm
 SWT 70 ms 16.45600000 GHz

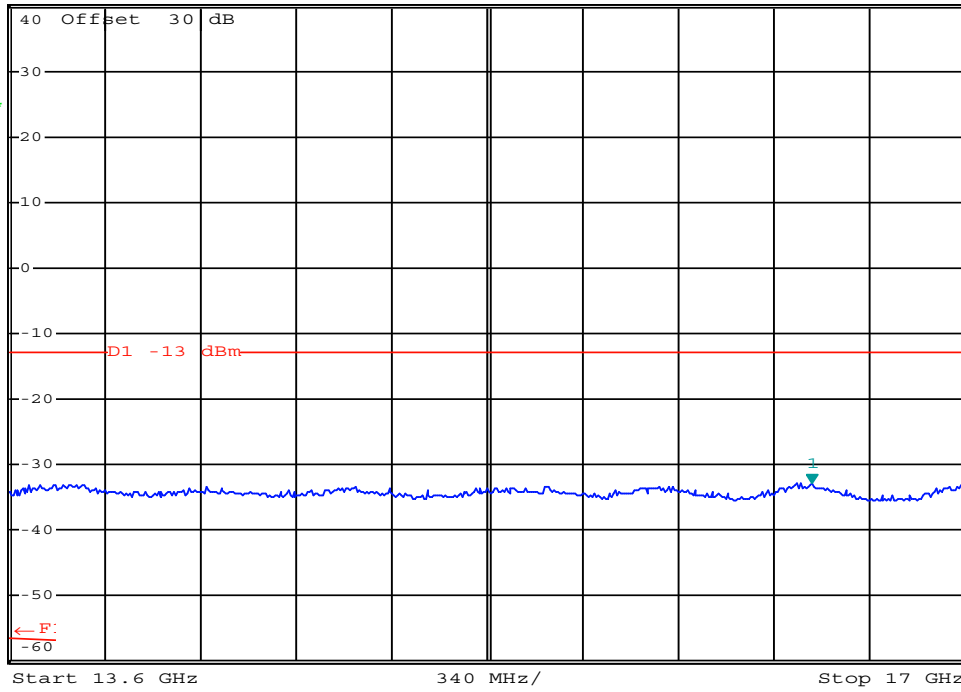
Ref 40 dBm

*Att 10 dB

SWT 70 ms

16.45600000 GHz

1 RM*
 VIEW



Date: 25.APR.2021 09:52:02

Channel Frequency (MHz): 1880.0	Channel Bandwidth (MHz): 1.4	Emission Frequency (MHz): -
EARFCN: 18900	Resource Blocks (RB): 1	
RB Offset: 3	Modulation: QPSK	Measured Emission (dBm): ND

Conducted Spurious Emissions LTE Band 2

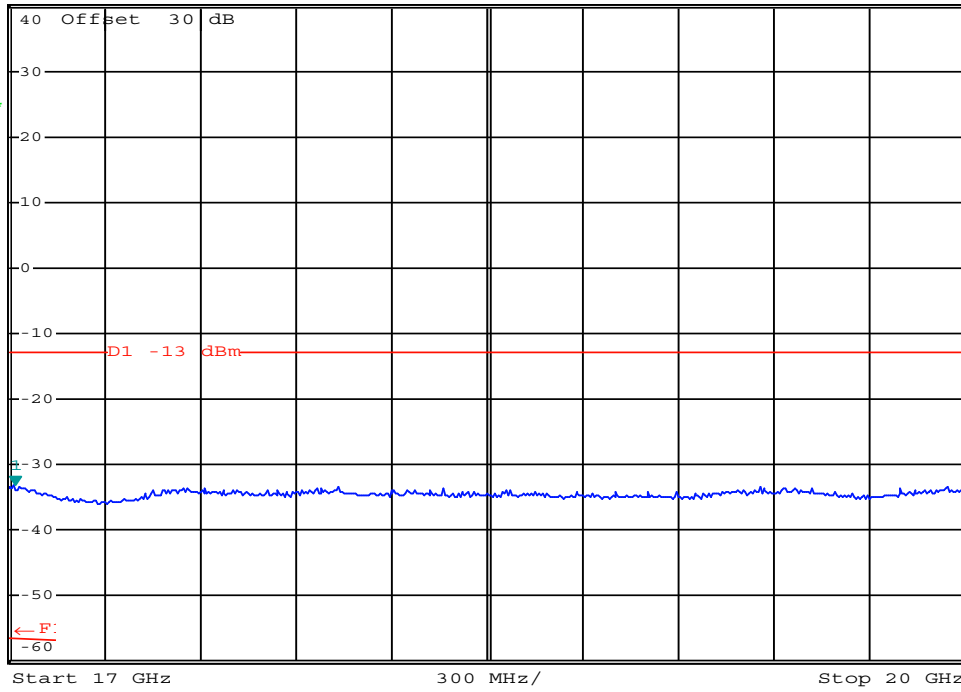


*RBW 1 MHz Marker 1 [T1]
 VBW 10 MHz -33.13 dBm
 SWT 60 ms 17.015000000 GHz

Ref 40 dBm

*Att 10 dB

1 RM*
 VIEW



Date: 25.APR.2021 09:52:48

Channel Frequency (MHz): 1880.0	Channel Bandwidth (MHz): 1.4	Emission Frequency (MHz): -
EARFCN: 18900	Resource Blocks (RB): 1	
RB Offset: 3	Modulation: QPSK	Measured Emission (dBm): ND

Conducted Spurious Emissions LTE Band 5



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz -49.18 dBm
 SWT 20 ms 849.000000000 MHz

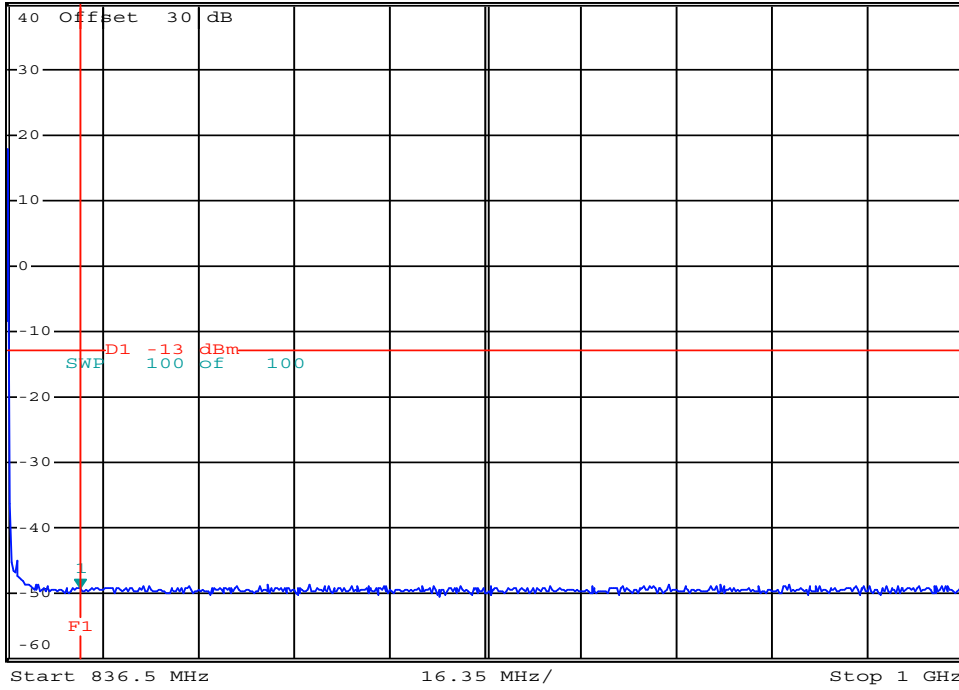
Ref 40 dBm

*Att 10 dB

SWT 20 ms

849.000000000 MHz

1 RM
VIEW



Date: 25.APR.2021 09:32:00

Channel Frequency (MHz): 836.5	Channel Bandwidth (MHz): 1.4	Emission Frequency (MHz): -
EARFCN: 20525	Resource Blocks (RB): 1	
RB Offset: 3	Modulation: QPSK	Measured Emission (dBm): ND

Conducted Spurious Emissions LTE Band 5

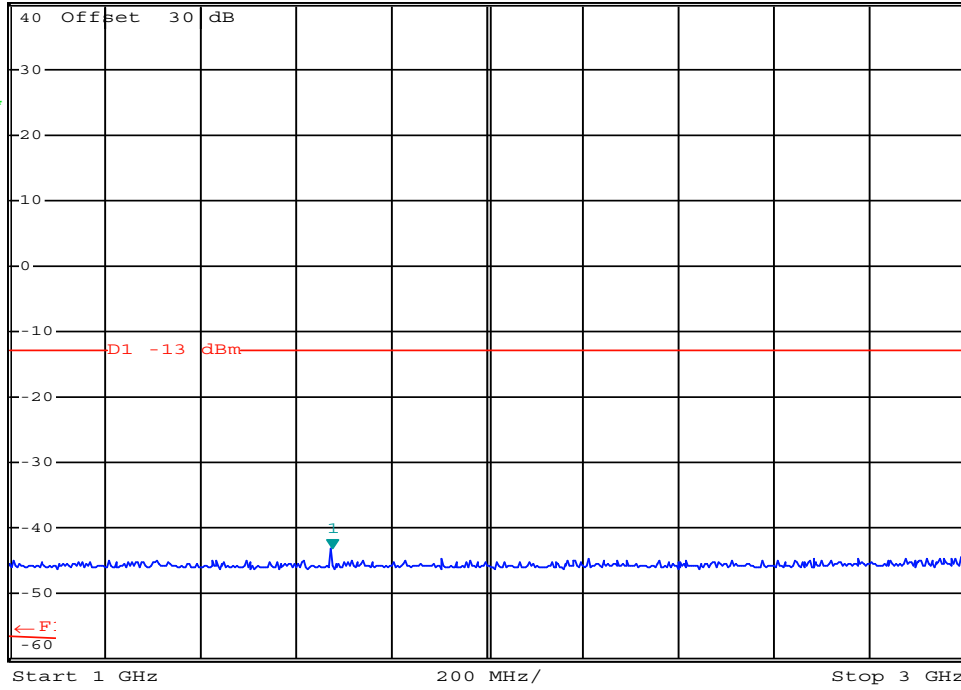


*RBW 1 MHz Marker 1 [T1]
 VBW 10 MHz -43.17 dBm
 SWT 10 ms 1.674000000 GHz

Ref 40 dBm

*Att 10 dB

1 RM*
 VIEW



Date: 25.APR.2021 09:33:19

Channel Frequency (MHz): 836.5	Channel Bandwidth (MHz): 1.4	Emission Frequency (MHz): 1674
EARFCN: 20525	Resource Blocks (RB): 1	
RB Offset: 3	Modulation: QPSK	Measured Emission (dBm): -43.17

Conducted Spurious Emissions LTE Band 5

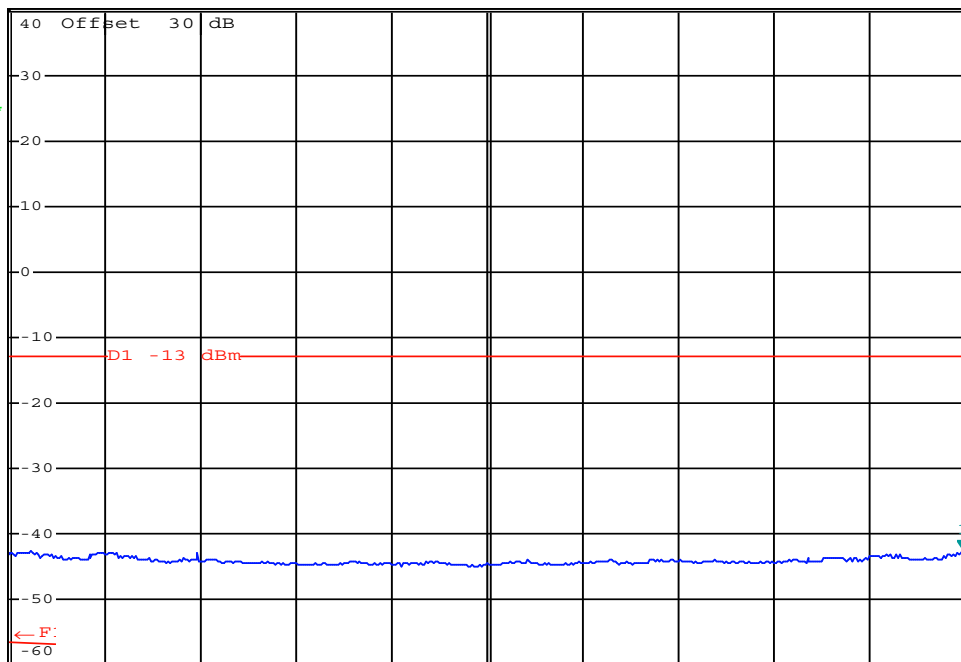


*RBW 1 MHz Marker 1 [T1]
 VBW 10 MHz -42.35 dBm
 SWT 120 ms 8.982000000 GHz

Ref 40 dBm

*Att 10 dB

1 RM*
 VIEW



Start 3 GHz 600 MHz/ Stop 9 GHz

Date: 25.APR.2021 09:34:22

Channel Frequency (MHz): 836.5	Channel Bandwidth (MHz): 1.4	Emission Frequency (MHz): -
EARFCN: 20525	Resource Blocks (RB): 1	
RB Offset: 3	Modulation: QPSK	Measured Emission (dBm): ND

Conducted Spurious Emissions LTE Band 5

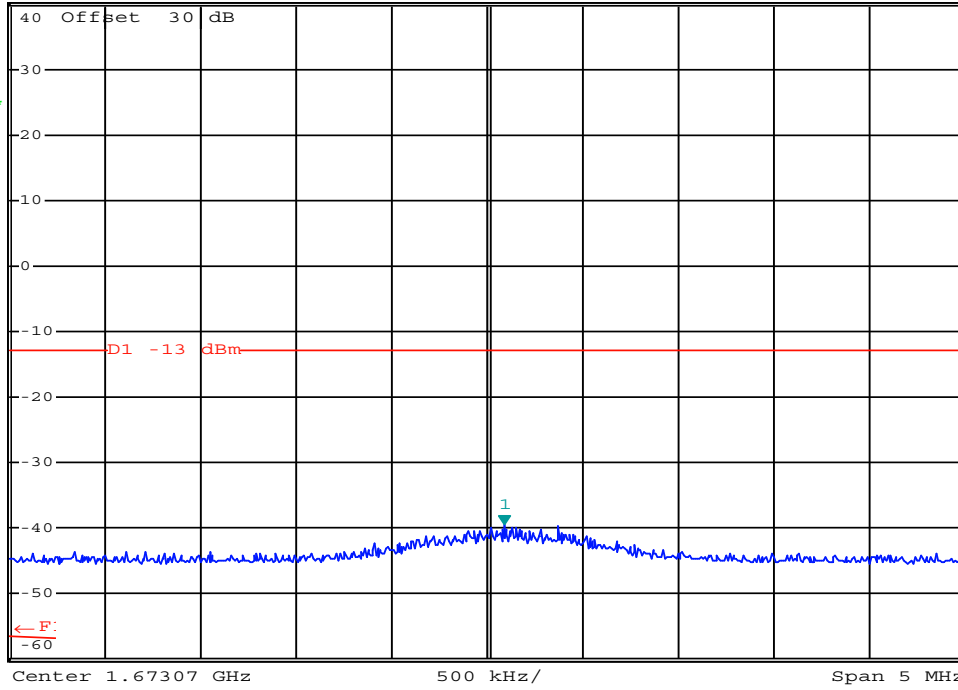


*RBW 1 MHz Marker 1 [T1]
 VBW 10 MHz -39.44 dBm
 SWT 5 ms 1.673155000 GHz

Ref 40 dBm

*Att 10 dB

1 RM
 VIEW



Date: 25.APR.2021 09:35:40

Channel Frequency (MHz): 836.5	Channel Bandwidth (MHz): 1.4	Emission Frequency (MHz): 1673
EARFCN: 20525	Resource Blocks (RB): 1	
RB Offset: 3	Modulation: QPSK	Measured Emission (dBm): -39.44

Conducted Spurious Emissions LTE Band 5



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz -49.16 dBm
 SWT 30 ms 716.100000000 MHz

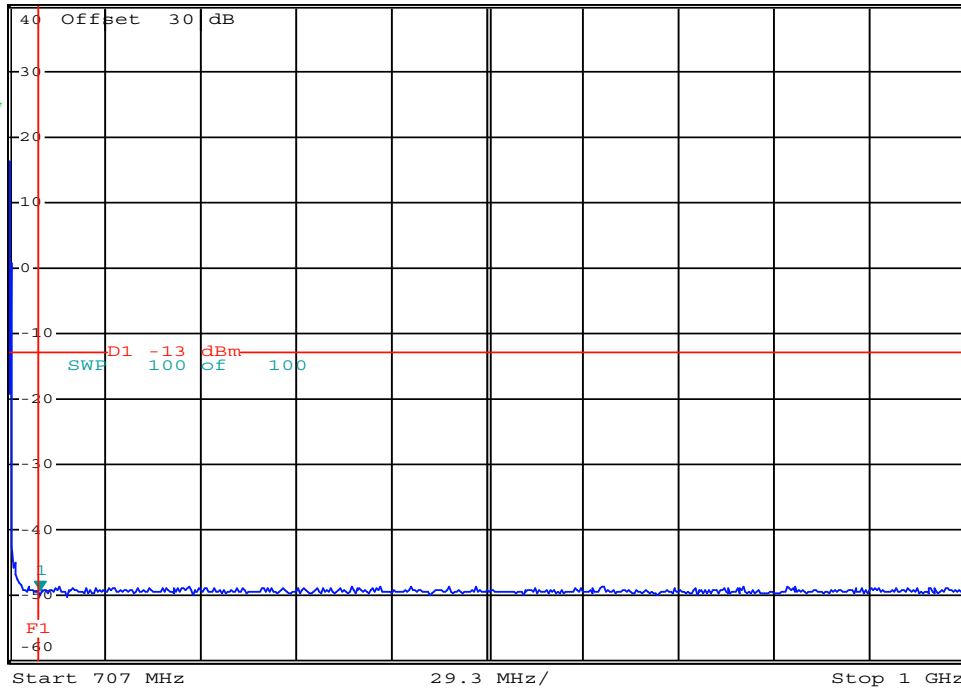
Ref 40 dBm

*Att 10 dB

SWT 30 ms

716.100000000 MHz

1 RM
 VIEW



Date: 25.APR.2021 09:11:29

Channel Frequency (MHz): 707.5	Channel Bandwidth (MHz): 1.4	Emission Frequency (MHz): -
EARFCN: 23095	Resource Blocks (RB): 1	
RB Offset: 3	Modulation: QPSK	Measured Emission (dBm): ND

Conducted Spurious Emissions LTE Band 5

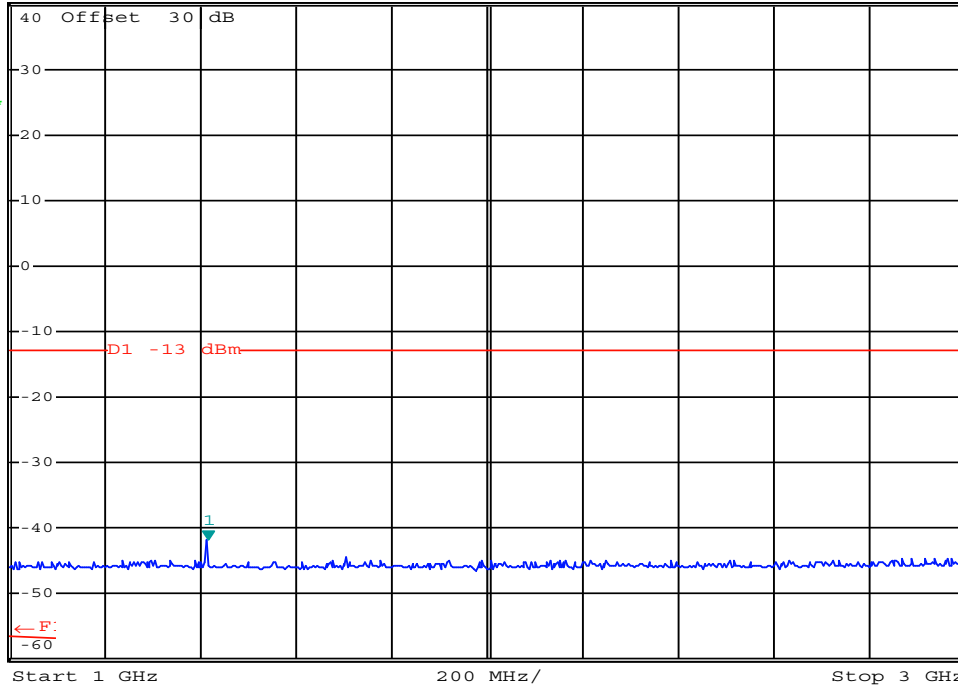


*RBW 1 MHz Marker 1 [T1]
 VBW 10 MHz -41.77 dBm
 SWT 10 ms 1.414000000 GHz

Ref 40 dBm

*Att 10 dB

1 RM*
 VIEW



Date: 25.APR.2021 09:13:00

Channel Frequency (MHz): 707.5	Channel Bandwidth (MHz): 1.4	Emission Frequency (MHz): 1414
EARFCN: 23095	Resource Blocks (RB): 1	
RB Offset: 3	Modulation: QPSK	Measured Emission (dBm): -41.77

Conducted Spurious Emissions LTE Band 5

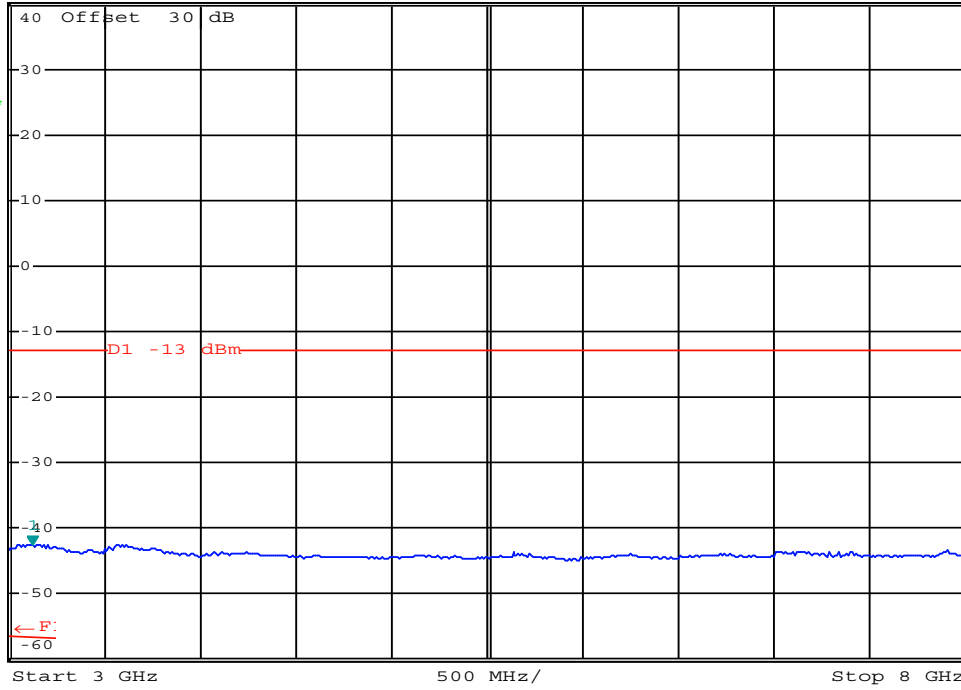


*RBW 1 MHz Marker 1 [T1]
 VBW 10 MHz -42.43 dBm
 SWT 100 ms 3.120000000 GHz

Ref 40 dBm

*Att 10 dB

1 RM*
 VIEW



Date: 25.APR.2021 09:14:17

Channel Frequency (MHz): 707.5	Channel Bandwidth (MHz): 1.4	Emission Frequency (MHz): -
EARFCN: 23095	Resource Blocks (RB): 1	
RB Offset: 3	Modulation: QPSK	Measured Emission (dBm): ND

Conducted Spurious Emissions LTE Band 5

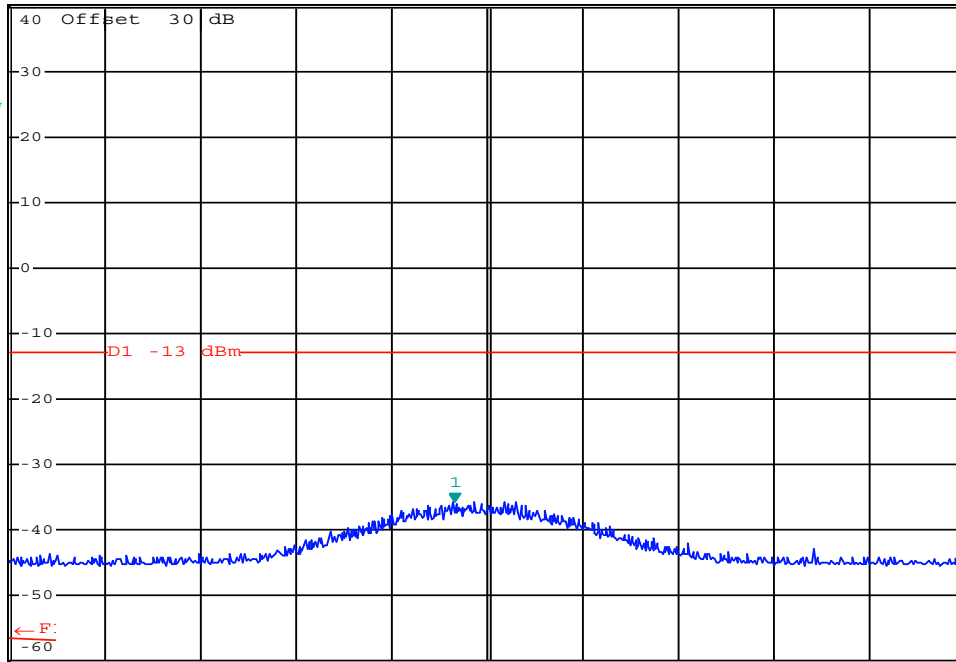


*RBW 1 MHz Marker 1 [T1]
 VBW 10 MHz -35.63 dBm
 SWT 5 ms 1.414705000 GHz

Ref 40 dBm

*Att 10 dB

1 RM
 VIEW



Center 1.41488 GHz

500 kHz/

Span 5 MHz

Date: 25.APR.2021 09:15:26

Channel Frequency (MHz): 707.5	Channel Bandwidth (MHz): 1.4	Emission Frequency (MHz): 1414
EARFCN: 23095	Resource Blocks (RB): 1	
RB Offset: 3	Modulation: QPSK	Measured Emission (dBm): -35.63

Simultaneous Transmission Spurious Emissions to 25GHz*										
LTE Channel Frequency (MHz)	Nominal Channel BW (MHz)	EARFCN	Resource Blocks	RB Offset	Modulation	WiFi Channel Frequency (MHz)	Emission Frequency (MHz)	Measured Emission (dBm)	Limit (dBm)	Margin (dB)
1880	1.4	18900	1	3	QPSK	2442.0	-	ND	-13.00	-
1732.5	1.4	20175	1	3	QPSK		-	ND		-
836.5	1.4	20525	1	3	QPSK		1673.0	-39.44		26.4
707.5	1.4	23095	1	3	QPSK		1414.0	-35.63		22.6
										Complies

Margin = Limit - Band Edge Emission

ND: None Detected. Noise Floor Measurement

* Under normal operating conditions, the WiFi and LTE transmitters do not simultaneoulsy transmit. This analysis is for reference only.

Simultaneous LTE/WiFi Transmission Spurious Emissions

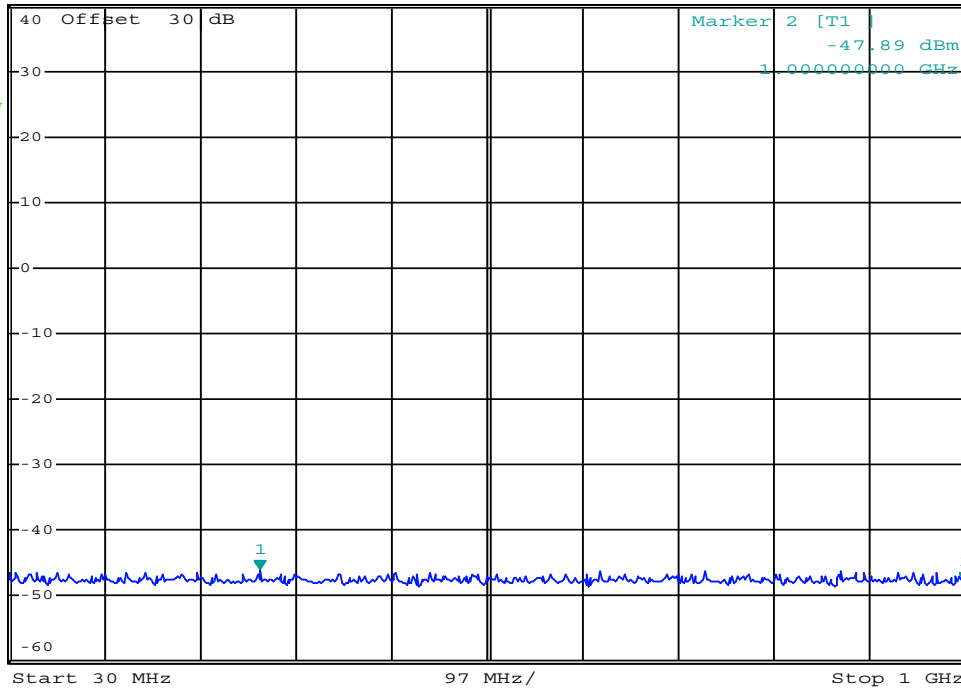


*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz -45.95 dBm
 SWT 100 ms 284.14000000 MHz

Ref 40 dBm

*Att 10 dB

1 RM
 VIEW



Date: 13.MAY.2021 11:09:20

LTE Band: 2	Channel Frequency (MHz): 1880.0	Emission Frequency (MHz): -
EARFCN: 18900	LTE Modulation: QPSK	
WiFi Channel Frequency: 2442	WiFi Modulation: QPSK	Measured Emission (dBm): ND

Simultaneous LTE/WiFi Transmission Spurious Emissions



*RBW 1 MHz
VBW 10 MHz
SWT 10 ms

Marker 2 [T1]

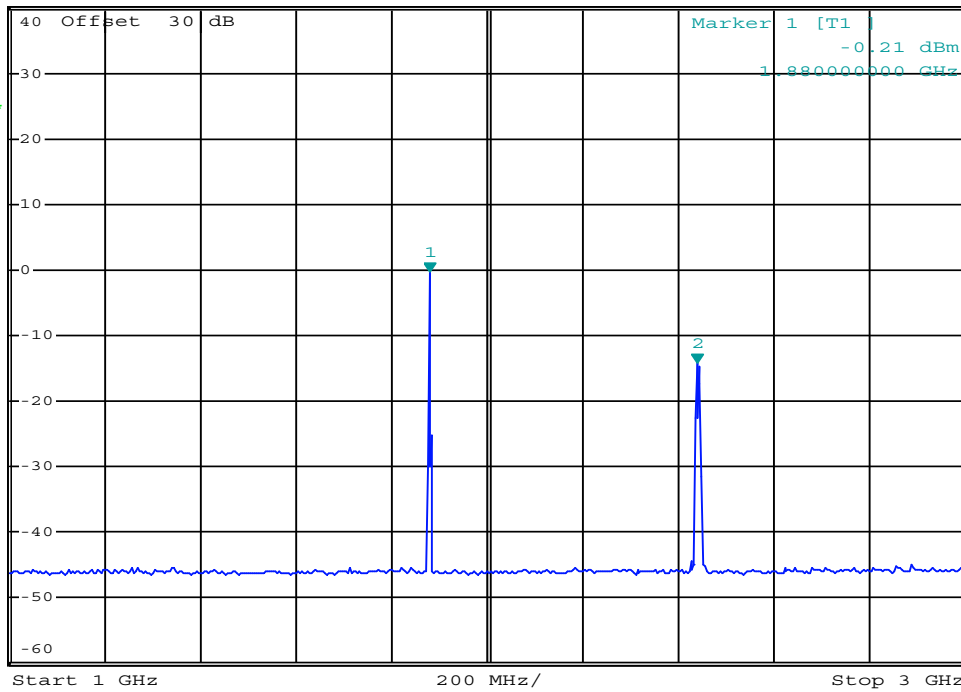
-14.21 dBm

2.440000000 GHz

Ref 40 dBm

*Att 10 dB

1 RM
VIEW



A

LVL

3DB

Date: 13.MAY.2021 11:11:16

LTE Band: 2	Channel Frequency (MHz): 1880.0	Emission Frequency (MHz): -
EARFCN: 18900	LTE Modulation: QPSK	
WiFi Channel Frequency: 2442	WiFi Modulation: QPSK	Measured Emission (dBm): ND

Marker 1 - LTE Fundamental

Marker 2 - WiFi Fundamental

Simultaneous LTE/WiFi Transmission Spurious Emissions

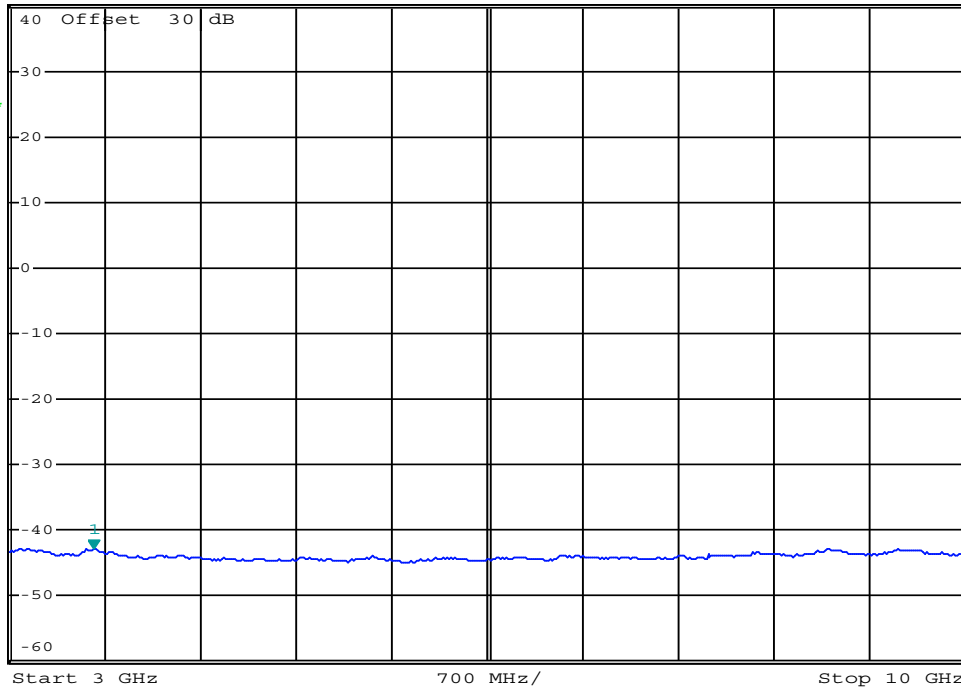


*RBW 1 MHz Marker 1 [T1]
 VBW 10 MHz -42.72 dBm
 SWT 140 ms 3.616000000 GHz

Ref 40 dBm

*Att 10 dB

1 RM*
VIEW



Date: 13.MAY.2021 11:11:53

LTE Band: 2	Channel Frequency (MHz): 1880.0	Emission Frequency (MHz): -
EARFCN: 18900	LTE Modulation: QPSK	
WiFi Channel Frequency: 2442	WiFi Modulation: QPSK	Measured Emission (dBm): ND

Simultaneous LTE/WiFi Transmission Spurious Emissions

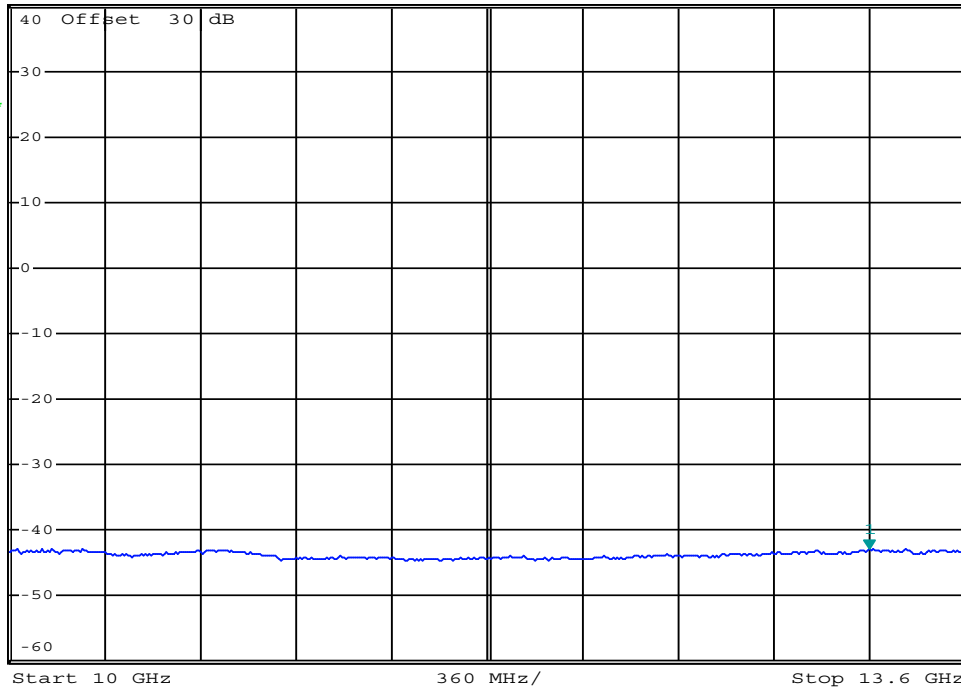


*RBW 1 MHz Marker 1 [T1]
 VBW 10 MHz -42.76 dBm
 SWT 75 ms 13.240000000 GHz

Ref 40 dBm

*Att 10 dB

1 RM*
VIEW



Date: 13.MAY.2021 11:12:19

LTE Band: 2	Channel Frequency (MHz): 1880.0	Emission Frequency (MHz): -
EARFCN: 18900	LTE Modulation: QPSK	
WiFi Channel Frequency: 2442	WiFi Modulation: QPSK	Measured Emission (dBm): ND

Simultaneous LTE/WiFi Transmission Spurious Emissions

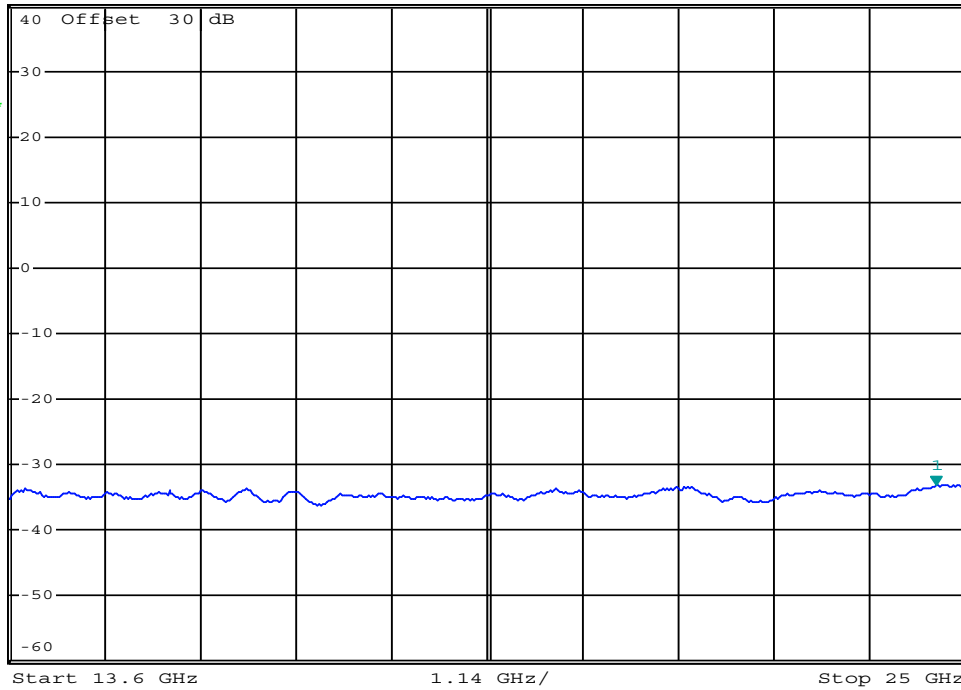


*RBW 1 MHz Marker 1 [T1]
 VBW 10 MHz -33.06 dBm
 SWT 230 ms 24.658000000 GHz

Ref 40 dBm

*Att 10 dB

1 RM*
 VIEW



Date: 13.MAY.2021 11:12:57

LTE Band: 2	Channel Frequency (MHz): 1880.0	Emission Frequency (MHz): -
EARFCN: 18900	LTE Modulation: QPSK	
WiFi Channel Frequency: 2442	WiFi Modulation: QPSK	Measured Emission (dBm): ND

Simultaneous LTE/WiFi Transmission Spurious Emissions

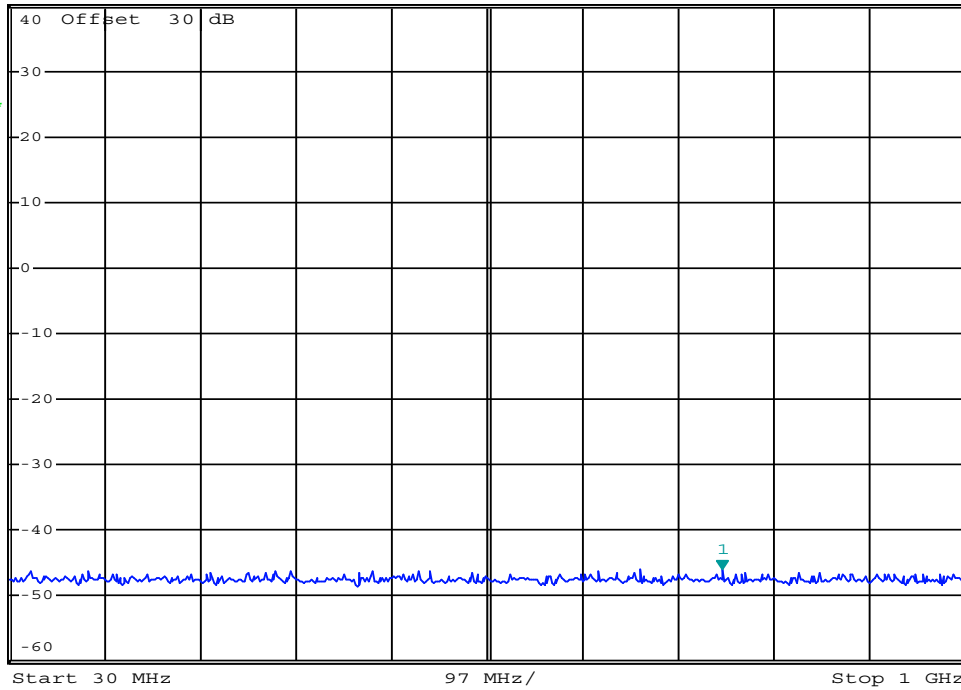


*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz -45.91 dBm
 SWT 100 ms 753.62000000 MHz

Ref 40 dBm

*Att 10 dB

1 RM
 VIEW



Date: 13.MAY.2021 11:13:33

LTE Band: 4	Channel Frequency (MHz): 1732.0	Emission Frequency (MHz): -
EARFCN: 20175	LTE Modulation: QPSK	
WiFi Channel Frequency: 2442	WiFi Modulation: QPSK	Measured Emission (dBm): ND

Simultaneous LTE/WiFi Transmission Spurious Emissions



*RBW 1 MHz
VBW 10 MHz
SWT 10 ms

Marker 1 [T1]

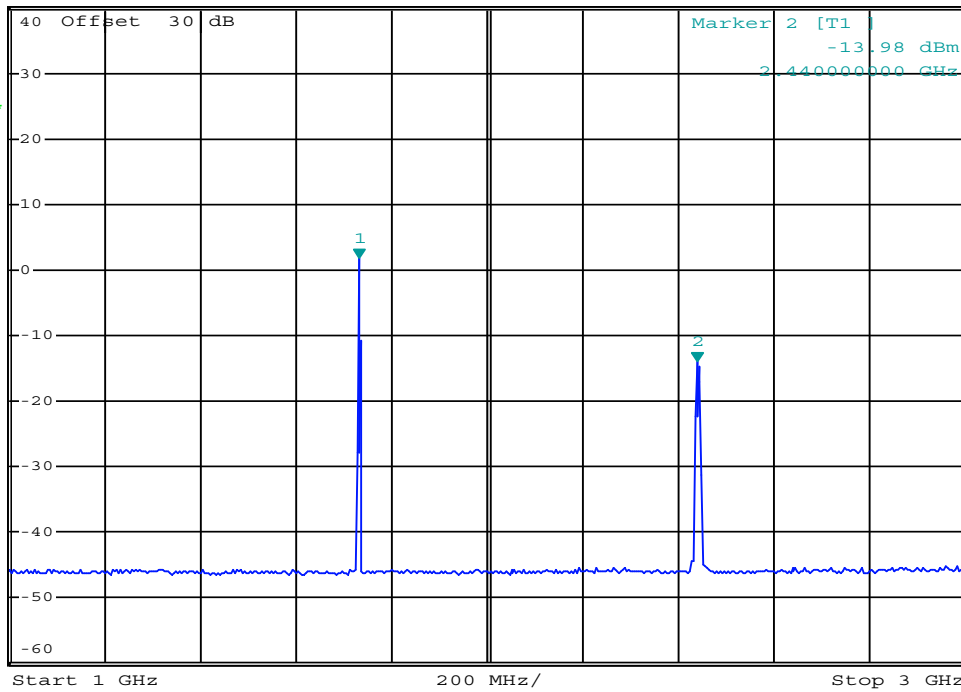
1.75 dBm

1.732000000 GHz

Ref 40 dBm

*Att 10 dB

1 RM
VIEW



A

LVL

3DB

Date: 13.MAY.2021 11:14:53

LTE Band: 4	Channel Frequency (MHz): 1732.0	Emission Frequency (MHz): -
EARFCN: 20175	LTE Modulation: QPSK	
WiFi Channel Frequency: 2442	WiFi Modulation: QPSK	Measured Emission (dBm): ND

Marker 1 - LTE Fundamental

Marker 2 - WiFi Fundamental

Simultaneous LTE/WiFi Transmission Spurious Emissions

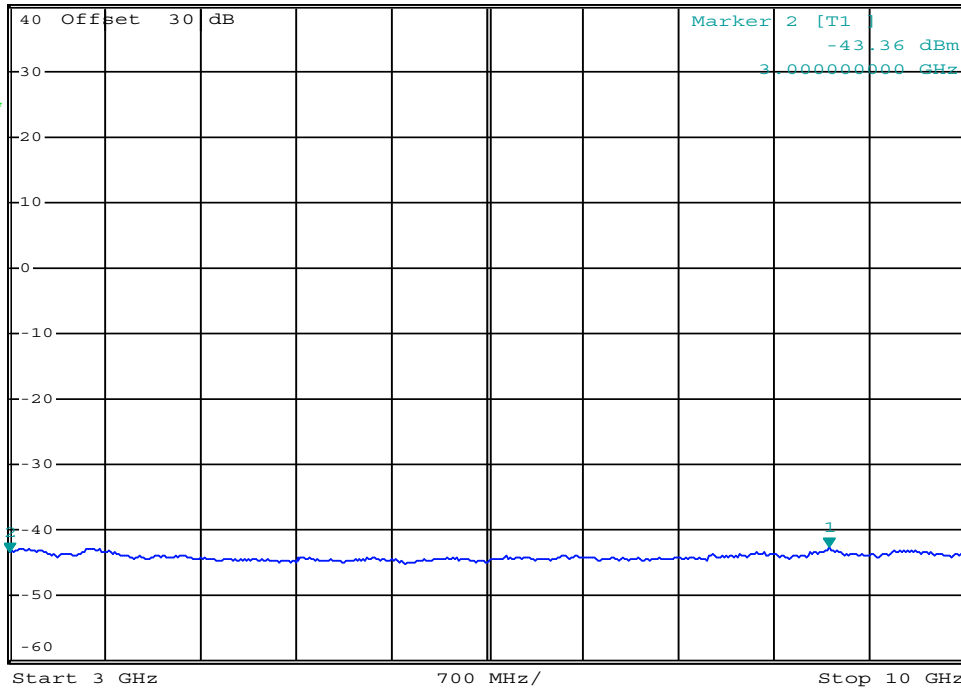


*RBW 1 MHz Marker 1 [T1]
 VBW 10 MHz -42.66 dBm
 SWT 140 ms 9.006000000 GHz

Ref 40 dBm

*Att 10 dB

1 RM
 VIEW



Date: 13.MAY.2021 11:15:13

LTE Band: 4	Channel Frequency (MHz): 1732.0	Emission Frequency (MHz): -
EARFCN: 20175	LTE Modulation: QPSK	
WiFi Channel Frequency: 2442	WiFi Modulation: QPSK	Measured Emission (dBm): ND

Marker 1 - LTE Fundamental

Marker 2 - WiFi Fundamental

Simultaneous LTE/WiFi Transmission Spurious Emissions



*RBW 1 MHz
VBW 10 MHz
SWT 75 ms

Marker 1 [T1]

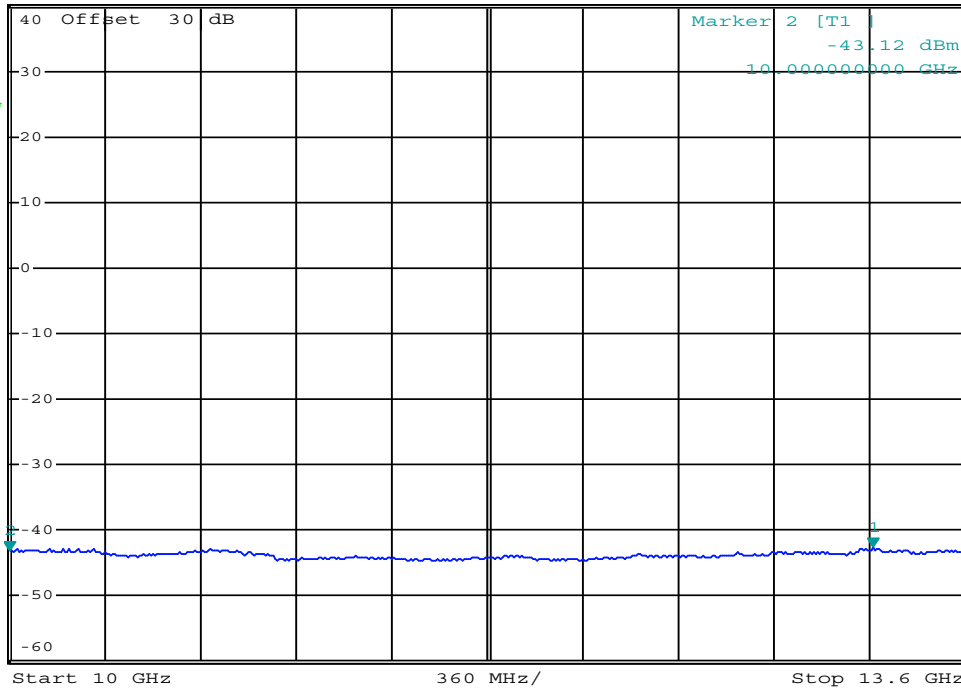
-42.67 dBm

13.254400000 GHz

Ref 40 dBm

*Att 10 dB

1 RM
VIEW



A

LVL

3DB

Date: 13.MAY.2021 11:15:37

LTE Band: 4	Channel Frequency (MHz): 1732.0	Emission Frequency (MHz): -
EARFCN: 20175	LTE Modulation: QPSK	
WiFi Channel Frequency: 2442	WiFi Modulation: QPSK	Measured Emission (dBm): ND

Marker 1 - LTE Fundamental

Marker 2 - WiFi Fundamental

Simultaneous LTE/WiFi Transmission Spurious Emissions



*RBW 1 MHz
VBW 10 MHz
SWT 230 ms

Marker 1 [T1]

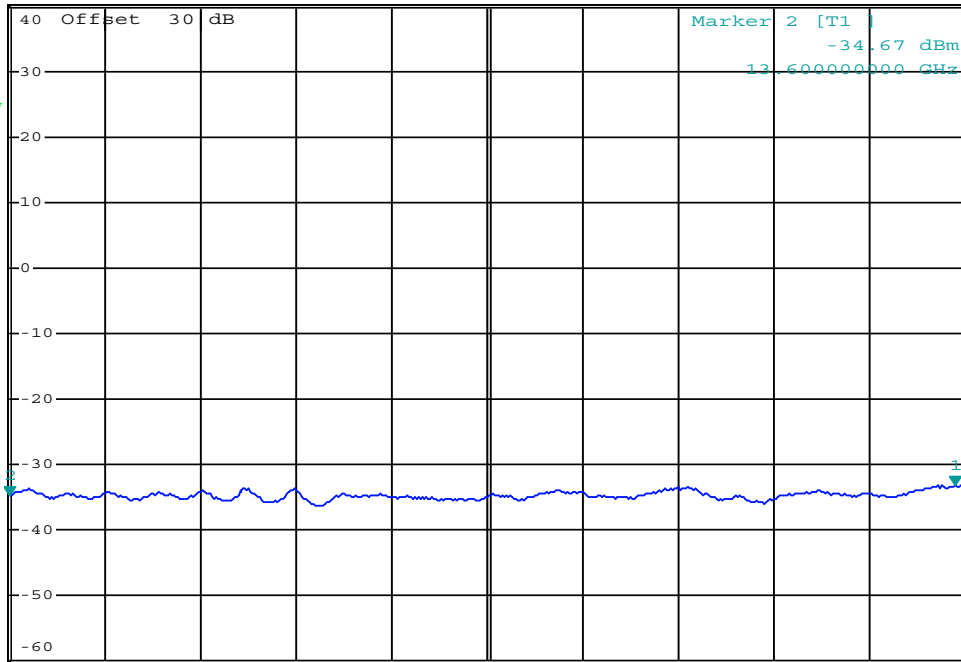
-33.04 dBm

24.886000000 GHz

Ref 40 dBm

*Att 10 dB

1 RM
VIEW



A

LVL

3DB

Start 13.6 GHz

1.14 GHz/

Stop 25 GHz

Date: 13.MAY.2021 11:16:07

LTE Band: 4	Channel Frequency (MHz): 1732.0	Emission Frequency (MHz): -
EARFCN: 20175	LTE Modulation: QPSK	
WiFi Channel Frequency: 2442	WiFi Modulation: QPSK	Measured Emission (dBm): ND

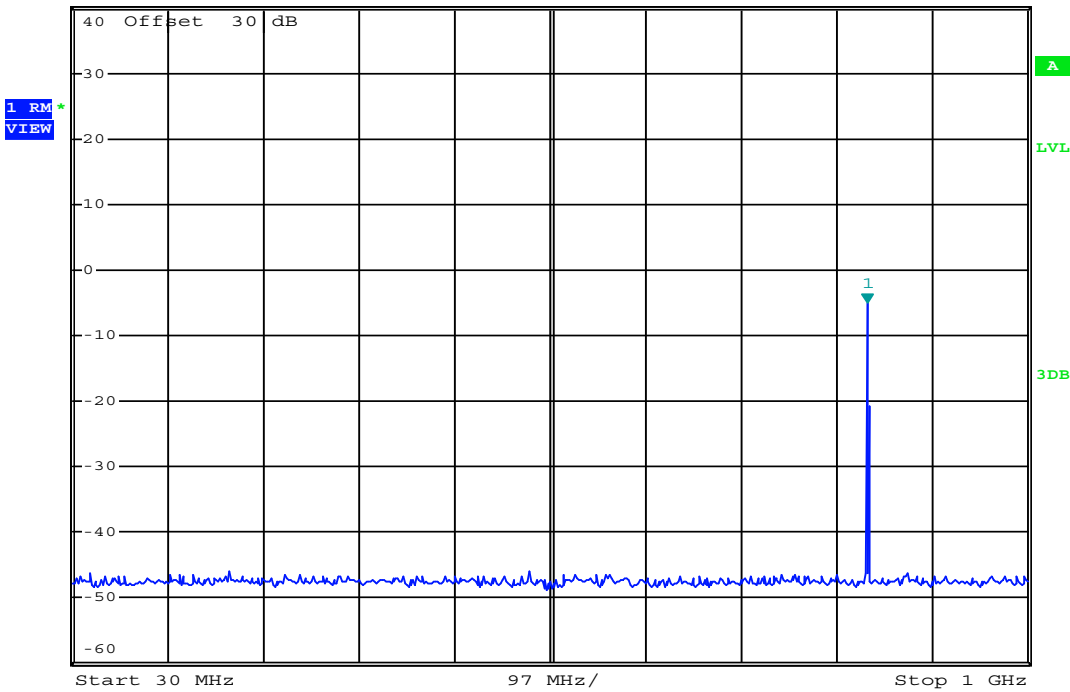
Marker 1 - LTE Fundamental

Marker 2 - WiFi Fundamental

Simultaneous LTE/WiFi Transmission Spurious Emissions



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz -5.02 dBm
 Ref 40 dBm *Att 10 dB SWT 100 ms 837.04000000 MHz



Date: 13.MAY.2021 10:48:09

LTE Band: 5	Channel Frequency (MHz): 836.5	Emission Frequency (MHz): -
EARFCN: 20525	LTE Modulation: QPSK	
WiFi Channel Frequency: 2442	WiFi Modulation: QPSK	Measured Emission (dBm): ND

Marker 1 - LTE Fundamental

Simultaneous LTE/WiFi Transmission Spurious Emissions



*RBW 1 MHz
VBW 10 MHz
SWT 15 ms

Marker 2 [T1]

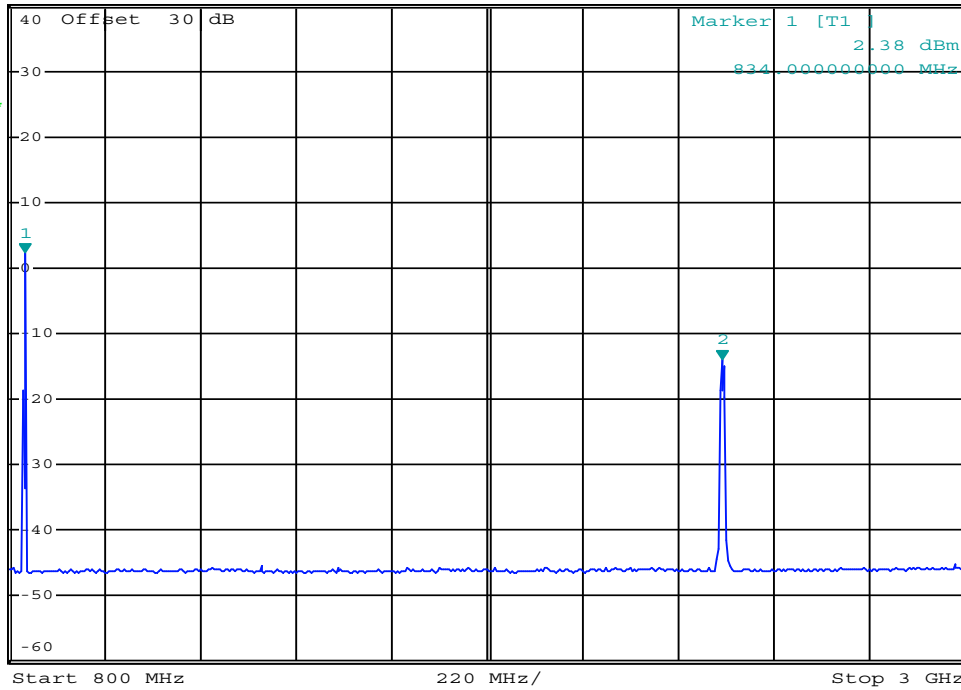
-13.85 dBm

2.442200000 GHz

Ref 40 dBm

*Att 10 dB

1 RM
VIEW



A

LVL

3DB

Date: 13.MAY.2021 10:56:07

LTE Band: 5	Channel Frequency (MHz): 836.5	Emission Frequency (MHz): -
EARFCN: 20525	LTE Modulation: QPSK	
WiFi Channel Frequency: 2442	WiFi Modulation: QPSK	Measured Emission (dBm): ND

Marker 1 - LTE Fundamental

Marker 2 - WiFi Fundamental

Simultaneous LTE/WiFi Transmission Spurious Emissions

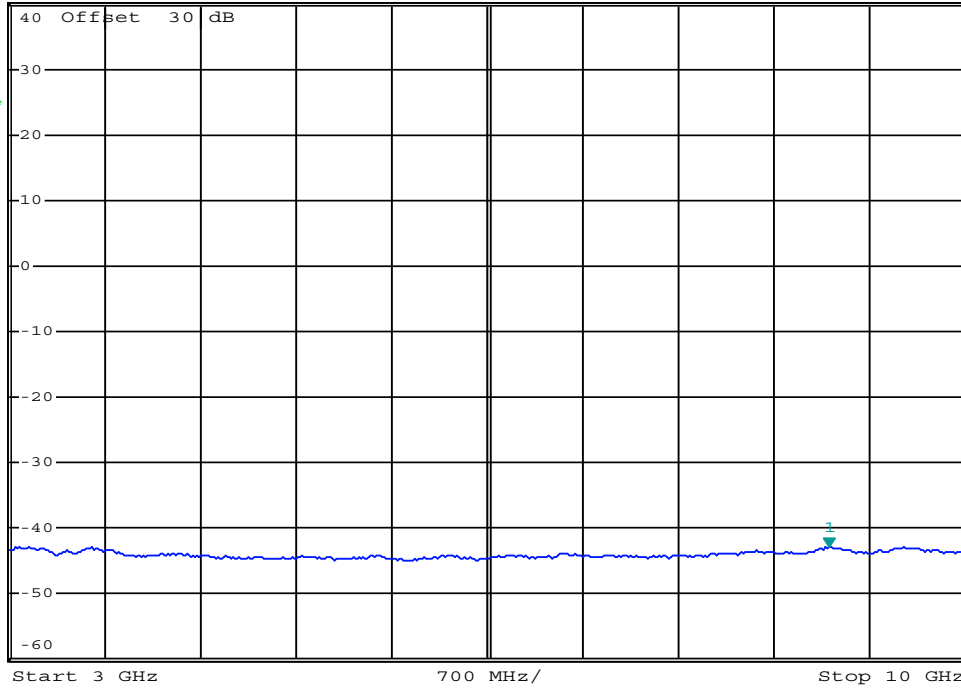


*RBW 1 MHz Marker 1 [T1]
 VBW 10 MHz -42.75 dBm
 SWT 140 ms 9.006000000 GHz

Ref 40 dBm

*Att 10 dB

1 RM
 VIEW



Date: 13.MAY.2021 10:56:34

LTE Band: 5	Channel Frequency (MHz): 836.5	Emission Frequency (MHz): -
EARFCN: 20525	LTE Modulation: QPSK	
WiFi Channel Frequency: 2442	WiFi Modulation: QPSK	Measured Emission (dBm): ND

Simultaneous LTE/WiFi Transmission Spurious Emissions

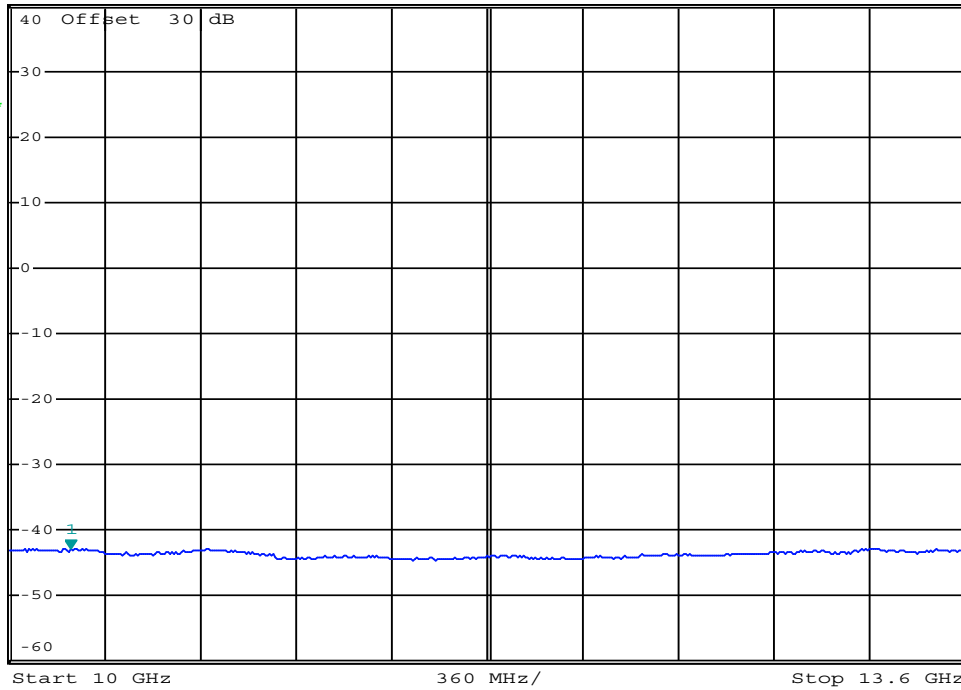


*RBW 1 MHz Marker 1 [T1]
 VBW 10 MHz -42.73 dBm
 SWT 75 ms 10.230400000 GHz

Ref 40 dBm

*Att 10 dB

1 RM
VIEW



Date: 13.MAY.2021 10:57:18

LTE Band: 5	Channel Frequency (MHz): 836.5	Emission Frequency (MHz): -
EARFCN: 20525	LTE Modulation: QPSK	
WiFi Channel Frequency: 2442	WiFi Modulation: QPSK	Measured Emission (dBm): ND

Simultaneous LTE/WiFi Transmission Spurious Emissions

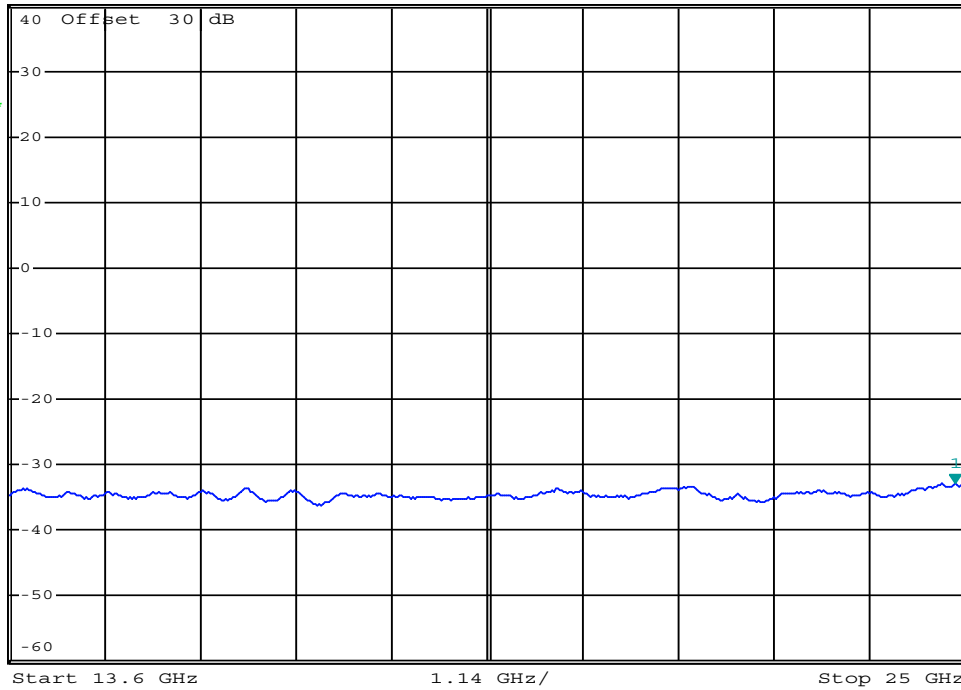


*RBW 1 MHz Marker 1 [T1]
 VBW 10 MHz -32.82 dBm
 SWT 230 ms 24.886000000 GHz

Ref 40 dBm

*Att 10 dB

1 RM
 VIEW



Date: 13.MAY.2021 10:58:05

LTE Band: 5	Channel Frequency (MHz): 836.5	Emission Frequency (MHz): -
EARFCN: 20525	LTE Modulation: QPSK	
WiFi Channel Frequency: 2442	WiFi Modulation: QPSK	Measured Emission (dBm): ND

Simultaneous LTE/WiFi Transmission Spurious Emissions

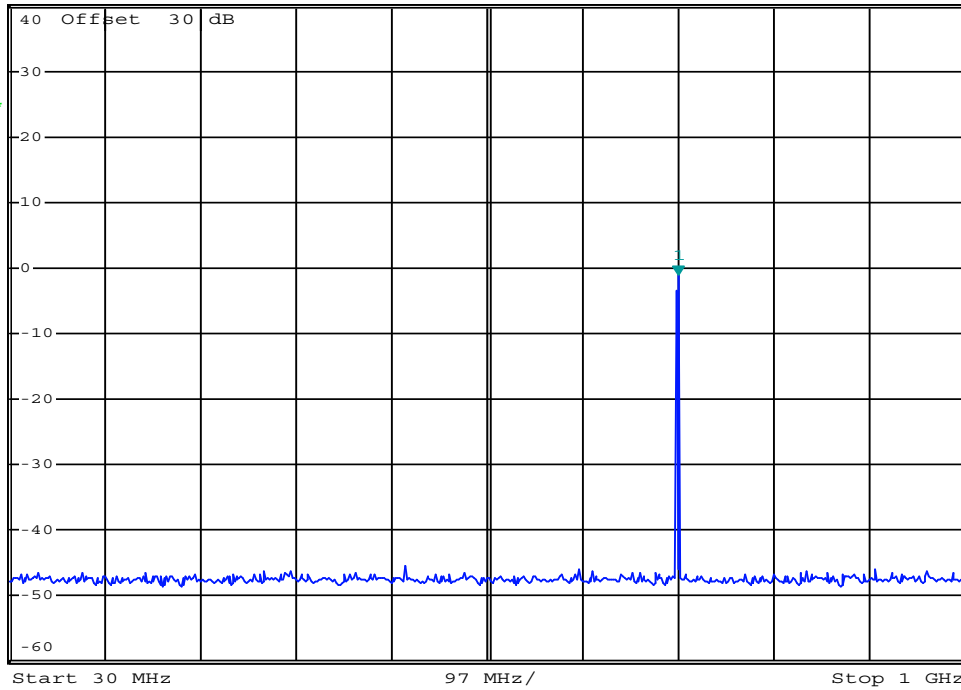


*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz -1.13 dBm
 SWT 100 ms 709.000000000 MHz

Ref 40 dBm

*Att 10 dB

1 RM
 VIEW



A
 LVL
 3DB

Date: 13.MAY.2021 11:00:16

LTE Band: 12	Channel Frequency (MHz): 707.5	Emission Frequency (MHz): -
EARFCN: 23095	LTE Modulation: QPSK	
WiFi Channel Frequency: 2442	WiFi Modulation: QPSK	Measured Emission (dBm): ND

Marker 1 - LTE Fundamental

Simultaneous LTE/WiFi Transmission Spurious Emissions



*RBW 1 MHz
VBW 10 MHz
SWT 15 ms

Marker 1 [T1]

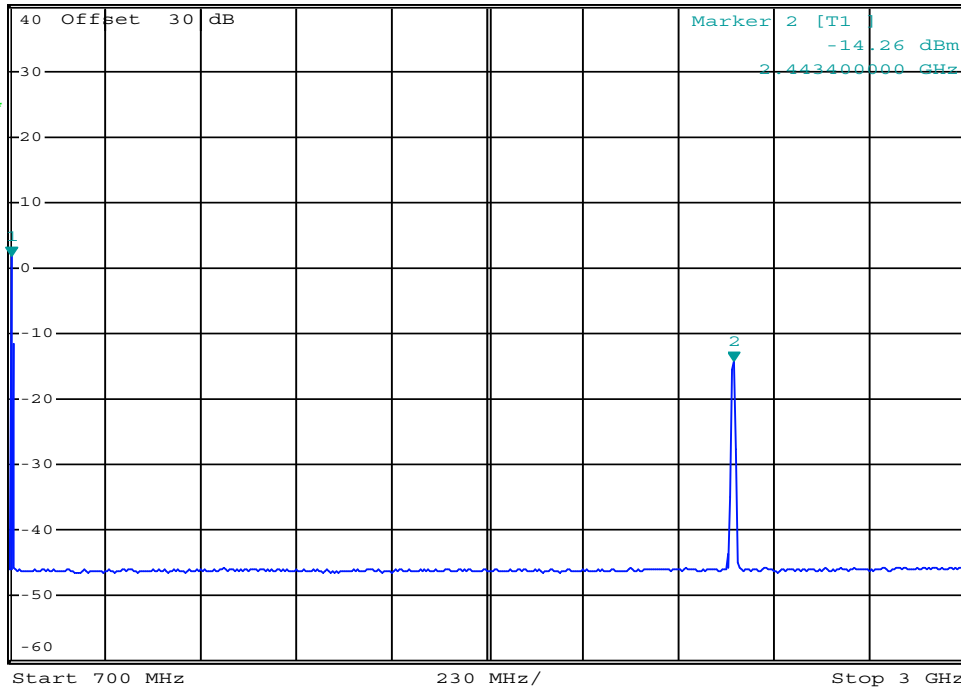
1.86 dBm

704.600000000 MHz

Ref 40 dBm

*Att 10 dB

1 RM
VIEW



A

LVL

3DB

Date: 13.MAY.2021 11:01:27

LTE Band: 12	Channel Frequency (MHz): 707.5	Emission Frequency (MHz): -
EARFCN: 23095	LTE Modulation: QPSK	
WiFi Channel Frequency: 2442	WiFi Modulation: QPSK	Measured Emission (dBm): ND

Marker 1 - LTE Fundamental

Marker 2 - WiFi Fundamental

Simultaneous LTE/WiFi Transmission Spurious Emissions



*RBW 1 MHz
VBW 10 MHz
SWT 140 ms

Marker 1 [T1]

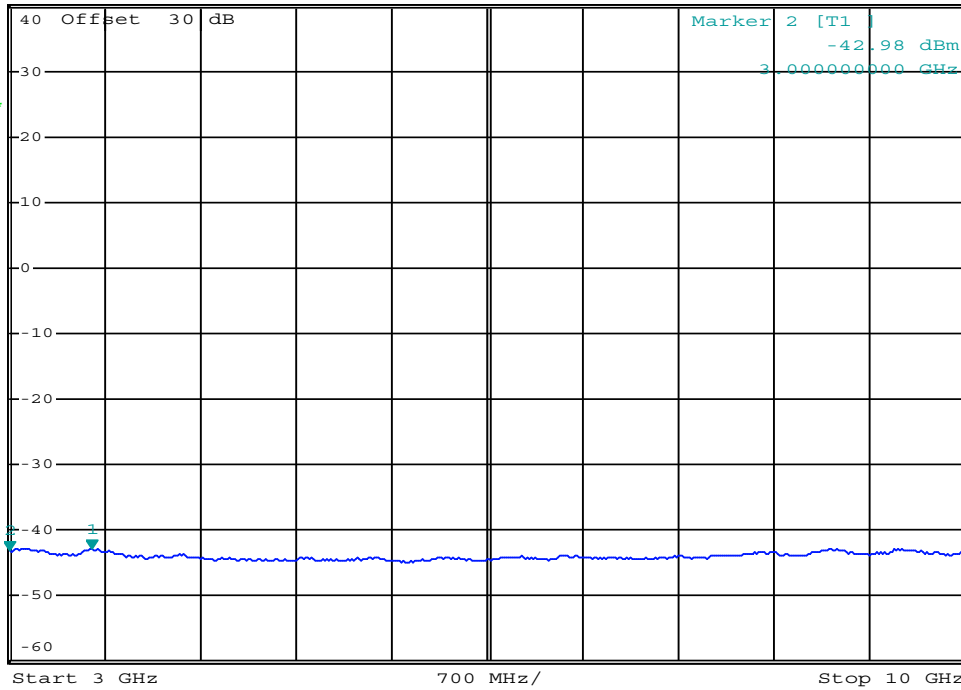
-42.70 dBm

3.602000000 GHz

Ref 40 dBm

*Att 10 dB

1 RM
VIEW



Date: 13.MAY.2021 11:01:44

LTE Band: 12	Channel Frequency (MHz): 707.5	Emission Frequency (MHz): -
EARFCN: 23095	LTE Modulation: QPSK	
WiFi Channel Frequency: 2442	WiFi Modulation: QPSK	Measured Emission (dBm): ND

Marker 1 - LTE Fundamental

Marker 2 - WiFi Fundamental

Simultaneous LTE/WiFi Transmission Spurious Emissions



*RBW 1 MHz
VBW 10 MHz
SWT 75 ms

Marker 1 [T1]

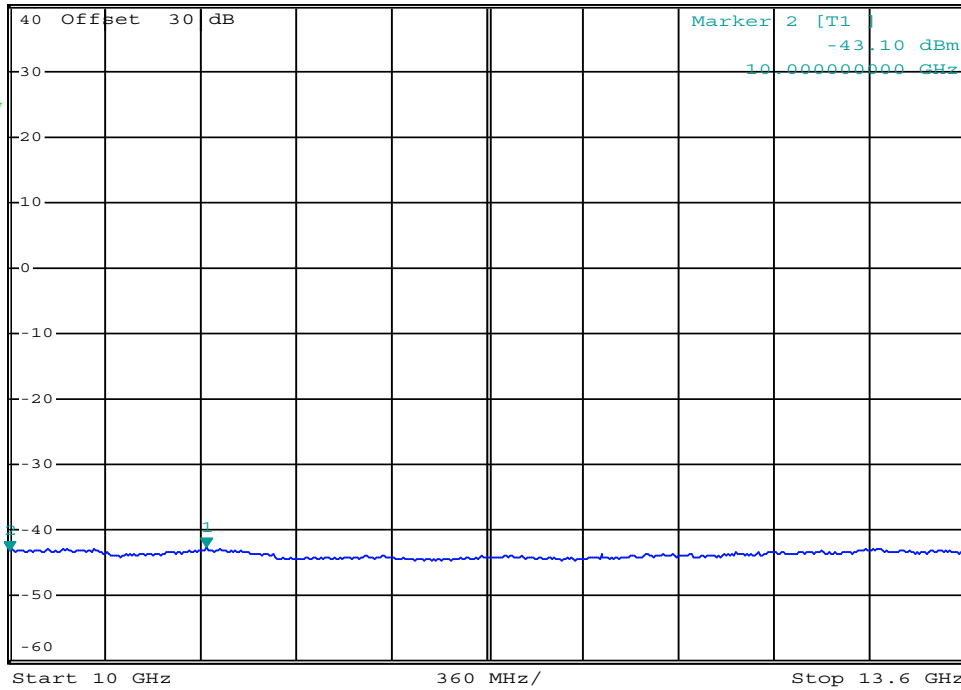
-42.58 dBm

10.741600000 GHz

Ref 40 dBm

*Att 10 dB

1 RM
VIEW



Date: 13.MAY.2021 11:02:08

LTE Band: 12	Channel Frequency (MHz): 707.5	Emission Frequency (MHz): -
EARFCN: 23095	LTE Modulation: QPSK	
WiFi Channel Frequency: 2442	WiFi Modulation: QPSK	Measured Emission (dBm): ND

Marker 1 - LTE Fundamental

Marker 2 - WiFi Fundamental

Simultaneous LTE/WiFi Transmission Spurious Emissions



*RBW 1 MHz
VBW 10 MHz
SWT 230 ms

Marker 1 [T1]

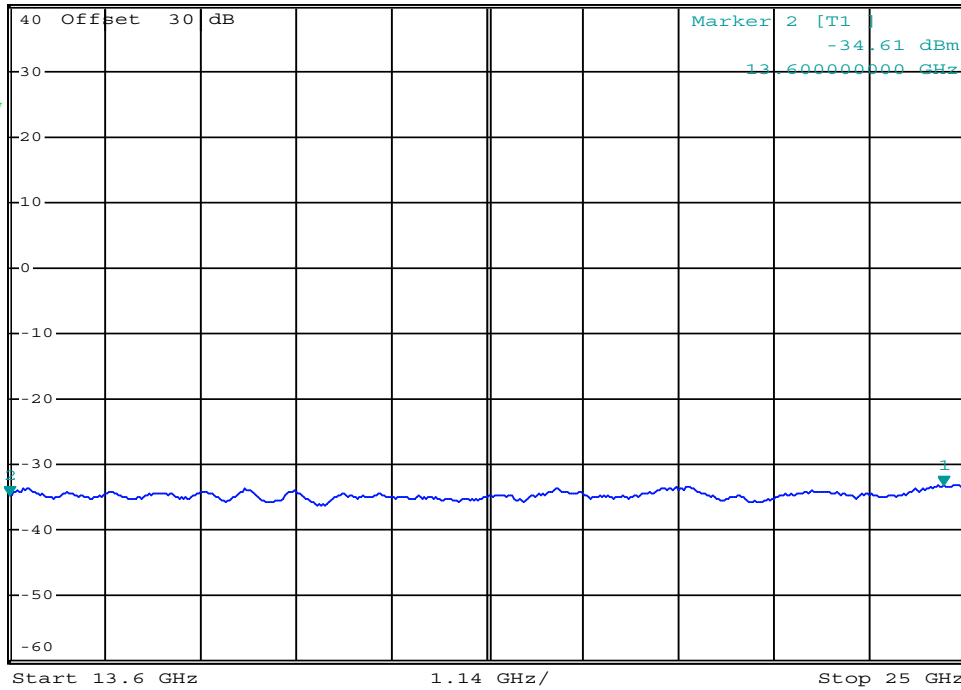
-33.05 dBm

24.749200000 GHz

Ref 40 dBm

*Att 10 dB

1 RM
VIEW



Date: 13.MAY.2021 11:02:28

LTE Band: 12	Channel Frequency (MHz): 707.5	Emission Frequency (MHz): -
EARFCN: 23095	LTE Modulation: QPSK	
WiFi Channel Frequency: 2442	WiFi Modulation: QPSK	Measured Emission (dBm): ND

Marker 1 - LTE Fundamental

Marker 2 - WiFi Fundamental