

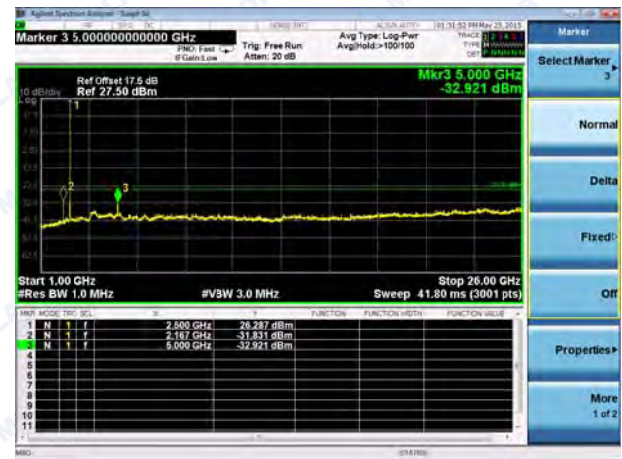


LTE Band 7 10MHz BW Low Channel

QPSK



16QAM



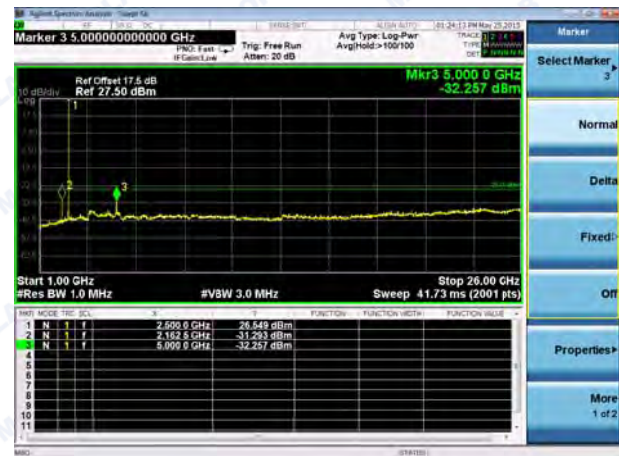
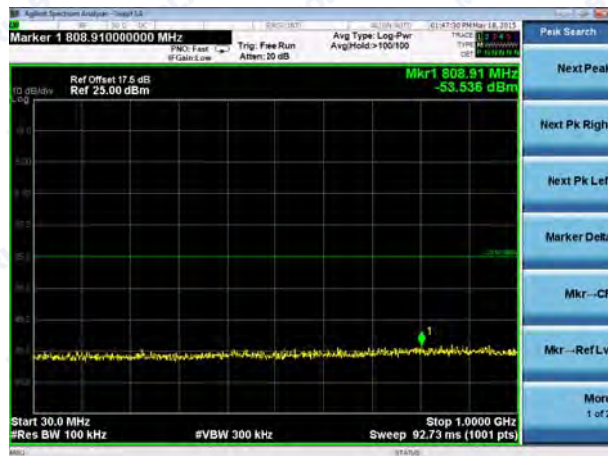


LTE Band 7 15MHz BW Low Channel

QPSK



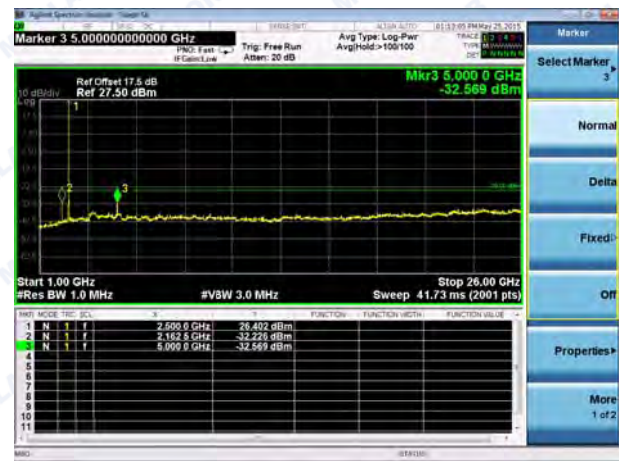
16QAM



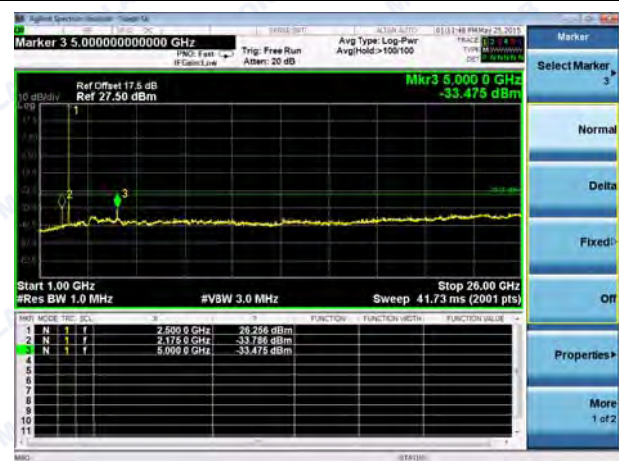
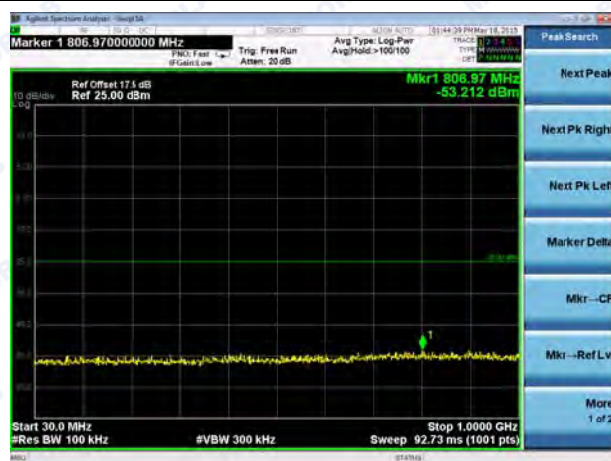


LTE Band 7 20MHz BW Low Channel

QPSK



16QAM



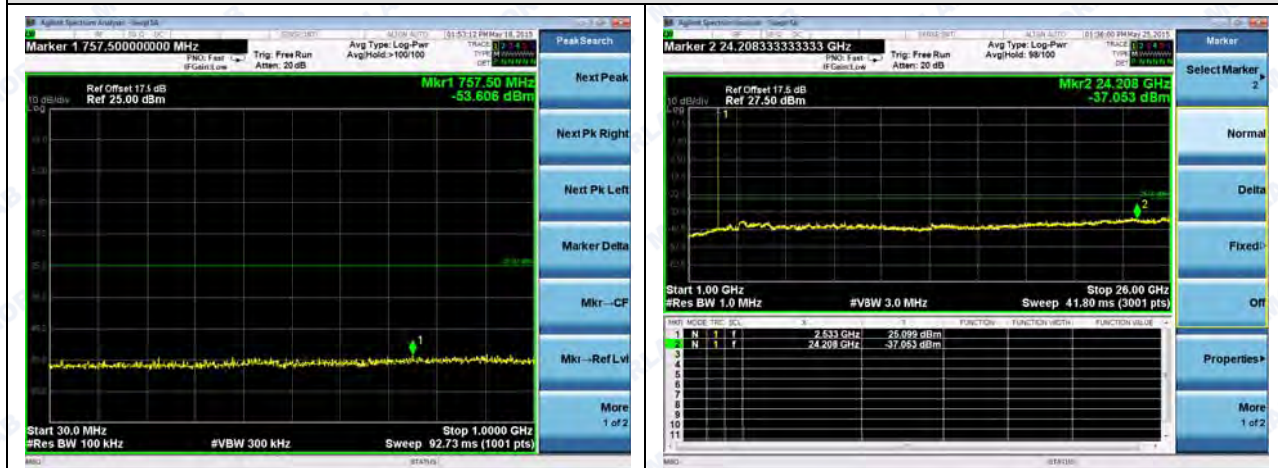


REPORT No.: SZ15040195W02

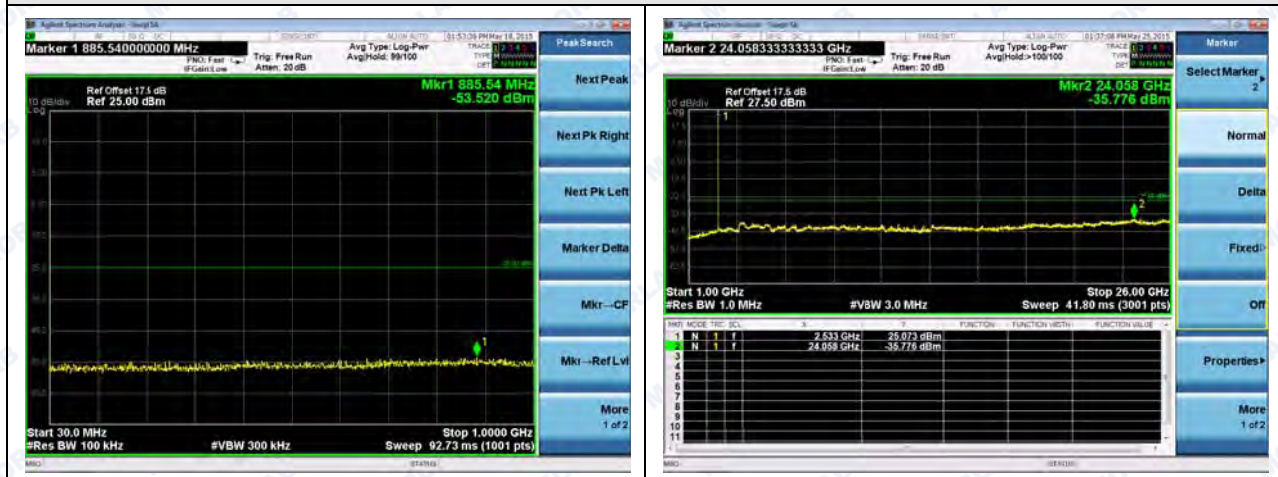
Middle channel:

LTE Band 7 5MHz BW Mid Channel

QPSK



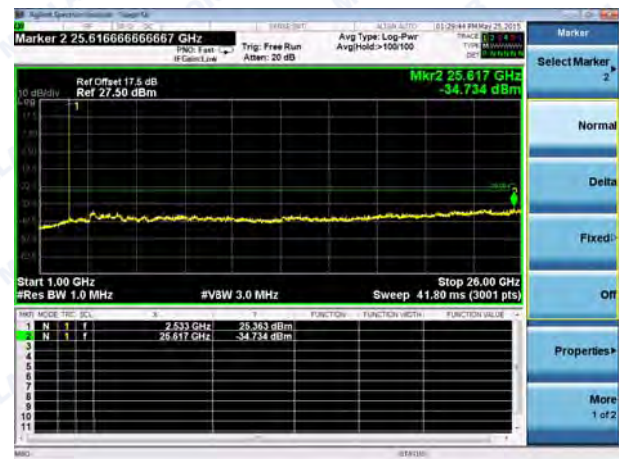
16QAM



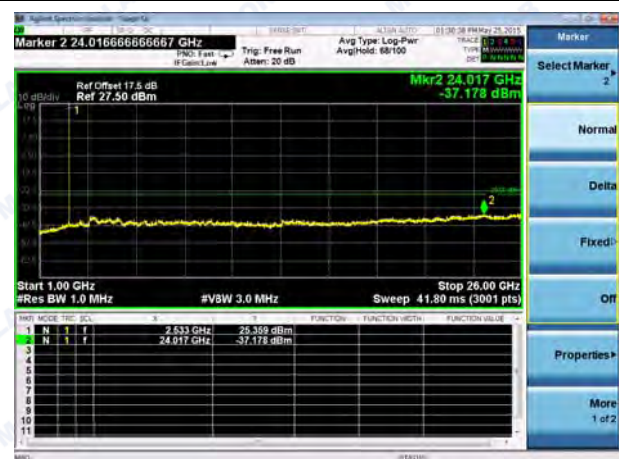
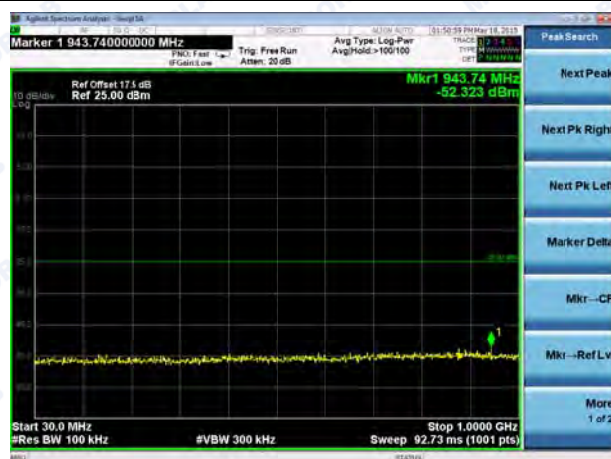


LTE Band 7 10MHz BW Mid Channel

QPSK



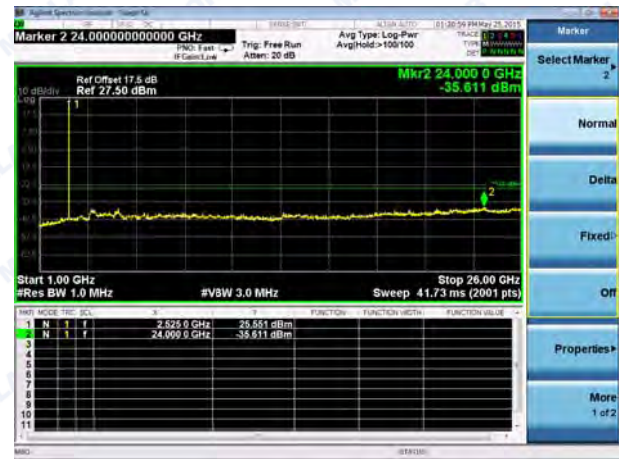
16QAM



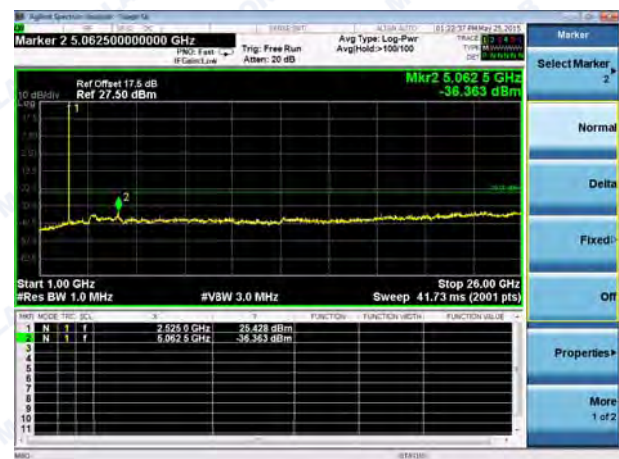
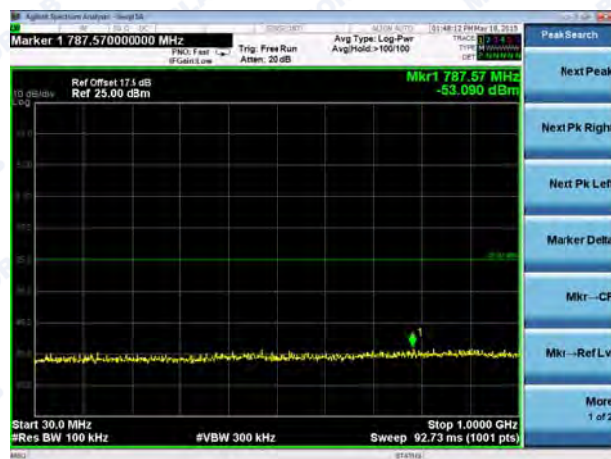


LTE Band 7 15MHz BW Mid Channel

QPSK



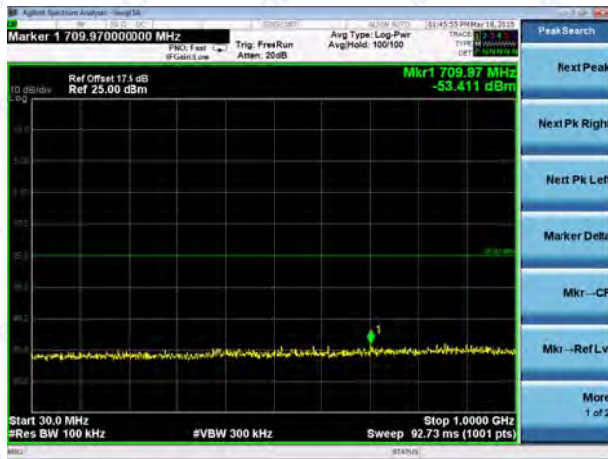
16QAM



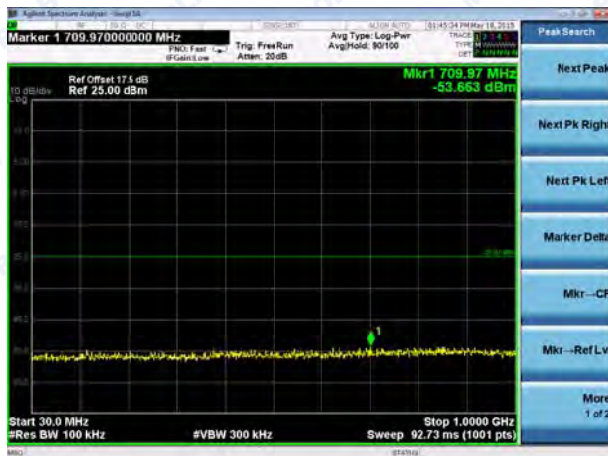


LTE Band 7 20MHz BW Mid Channel

QPSK



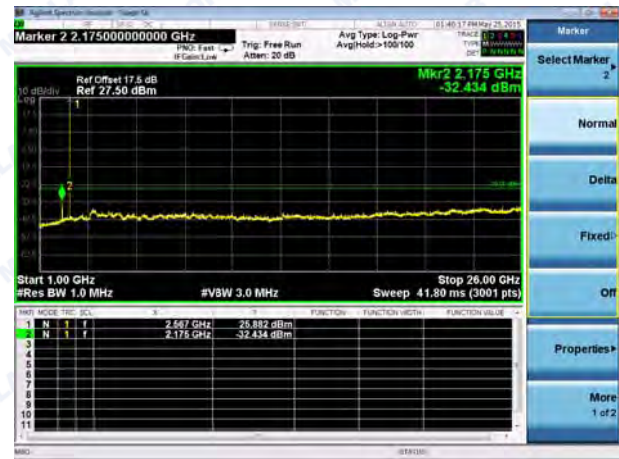
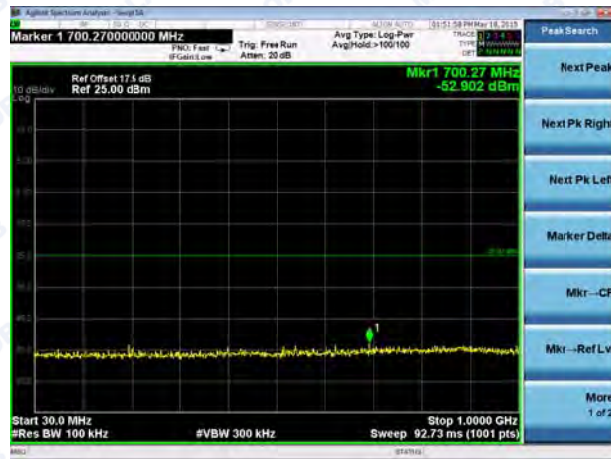
16QAM



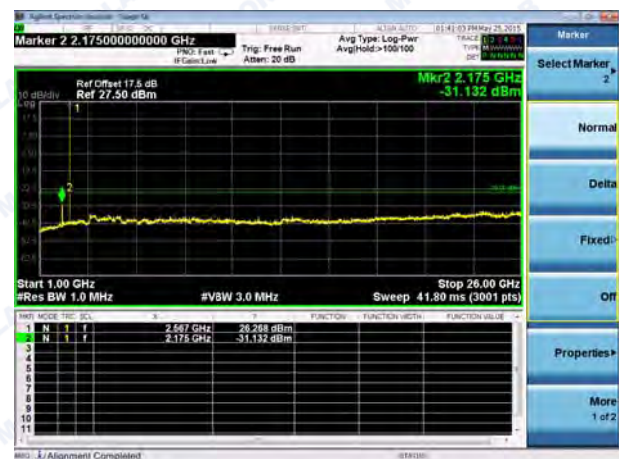


LTE Band 7 5MHz BW High Channel

QPSK



16QAM

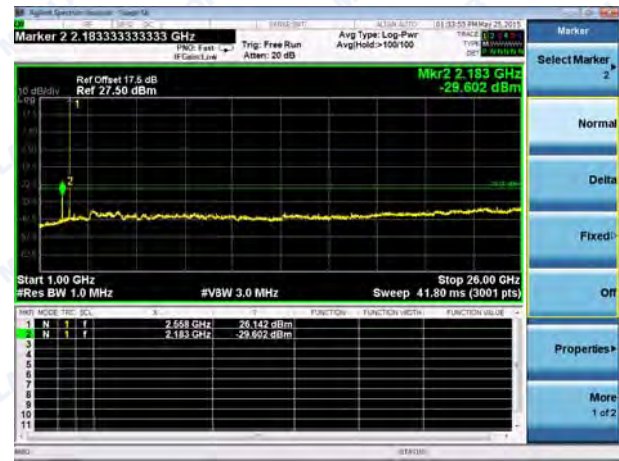
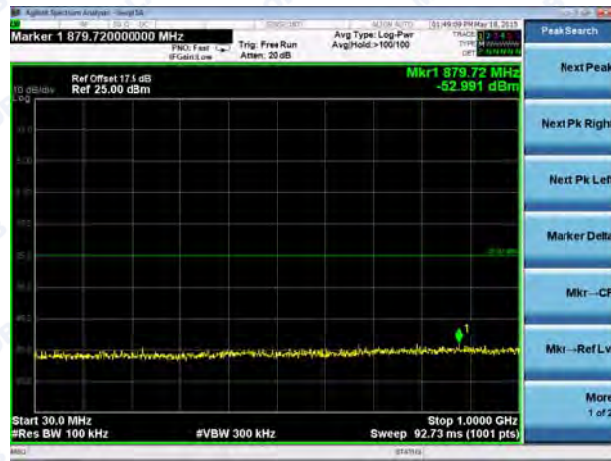




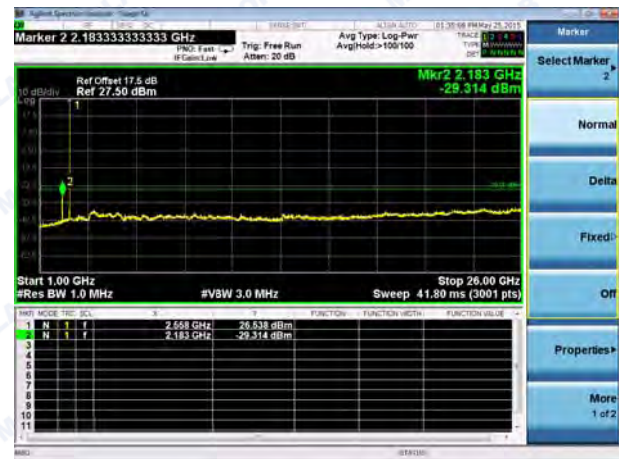
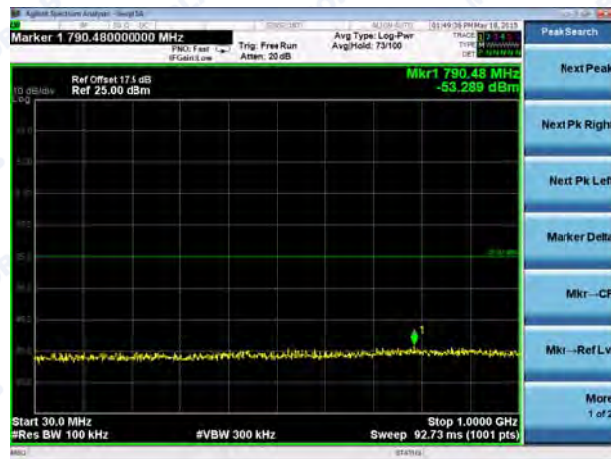
REPORT No.: SZ15040195W02

LTE Band 7 10MHz BW High Channel

QPSK



16QAM

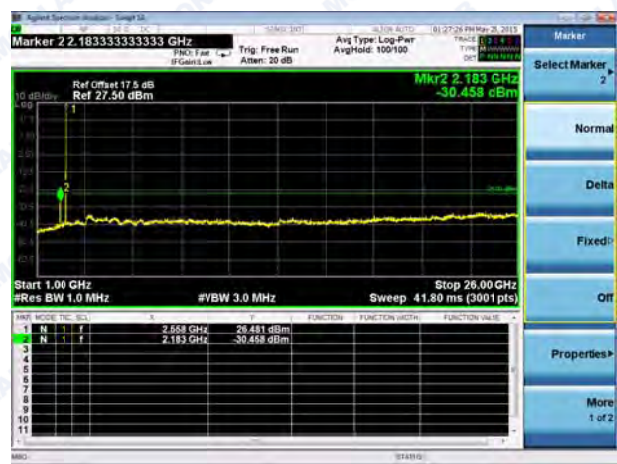




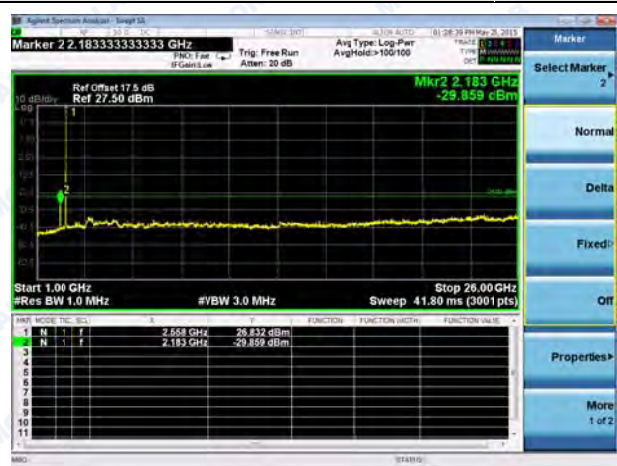
REPORT No.: SZ15040195W02

LTE Band 7 15MHz BW High Channel

QPSK



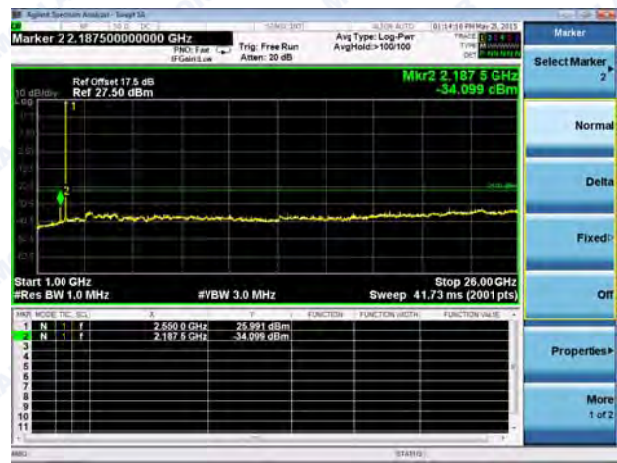
16QAM



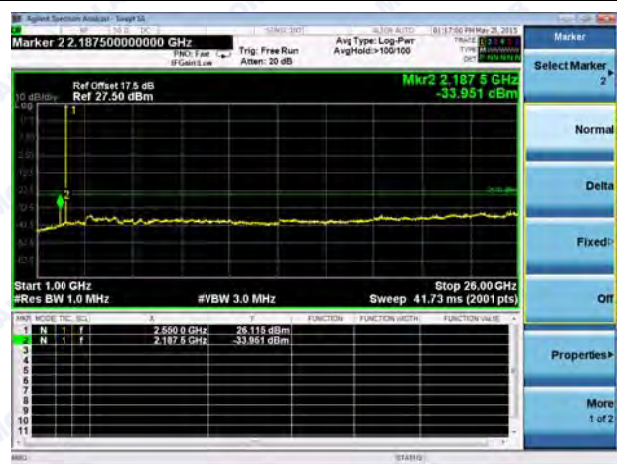


LTE Band 7 20MHz BW High Channel

QPSK



16QAM





2.6 Band Edge

2.6.1 Requirement

According to FCC section 27.53(g) (h), (g) For operations in the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

(h) For operations in the 1710–1755 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB.

2.6.2 Test Description

See section 2.1.2 of this report.

2.6.3 Test Result

The center frequency of spectrum is the band edge frequency and span is 2MHz, Record the max trace into the test report.

PASS. See the attached plots.



LTE Band 2

Channel Bandwidth: 1.4MHz

Channel	18607	RB Size 1	RB Offset 0	Channel	18607	RB Size 6	RB Offset 0
---------	-------	-----------	-------------	---------	-------	-----------	-------------



Channel Bandwidth: 1.4MHz

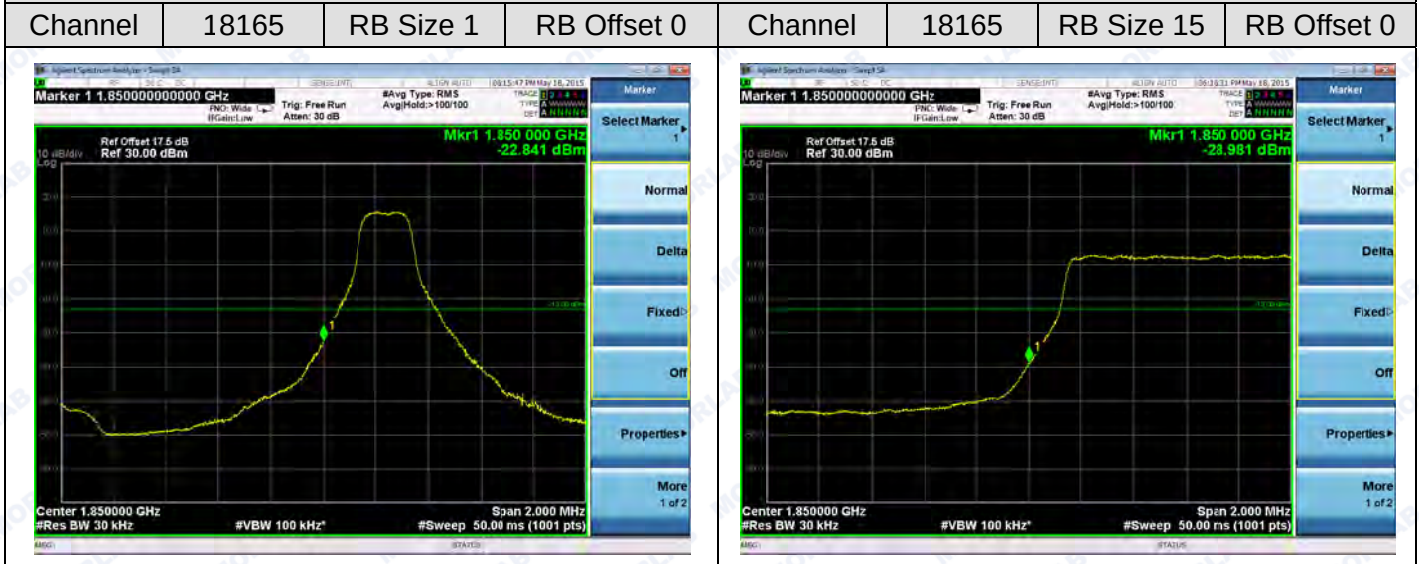
Channel	19192	RB Size 1	RB Offset 5	Channel	19192	RB Size 6	RB Offset 0
---------	-------	-----------	-------------	---------	-------	-----------	-------------



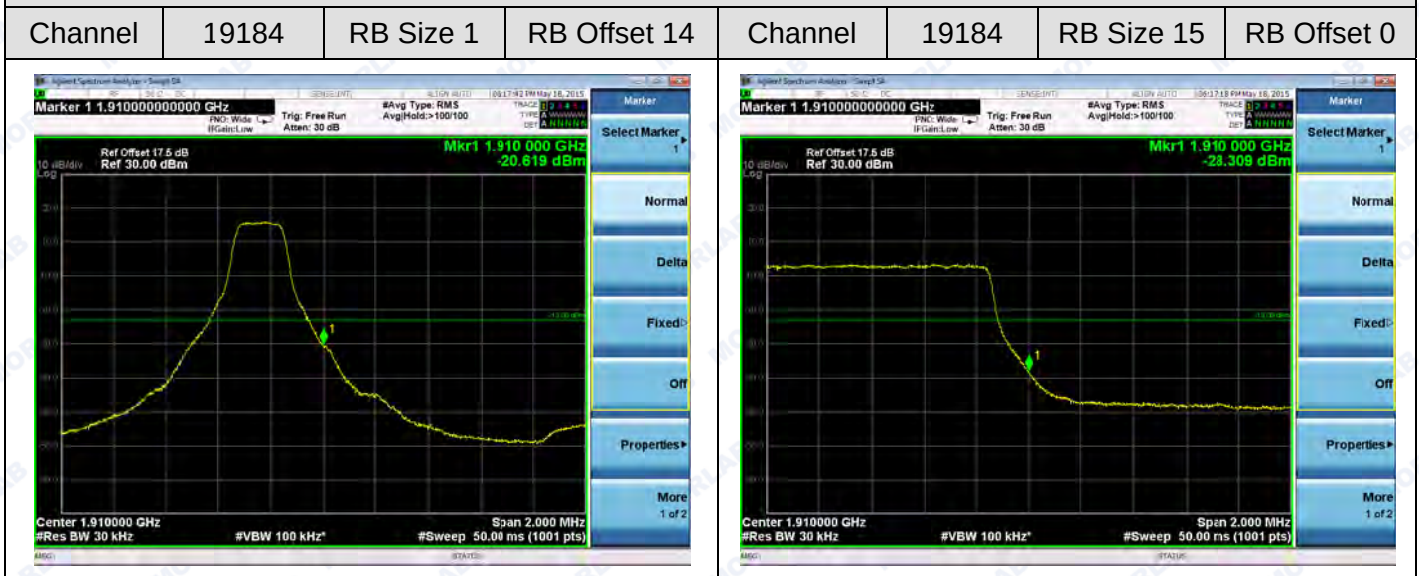


LTE Band 2

Channel Bandwidth: 3MHz



Channel Bandwidth: 3MHz

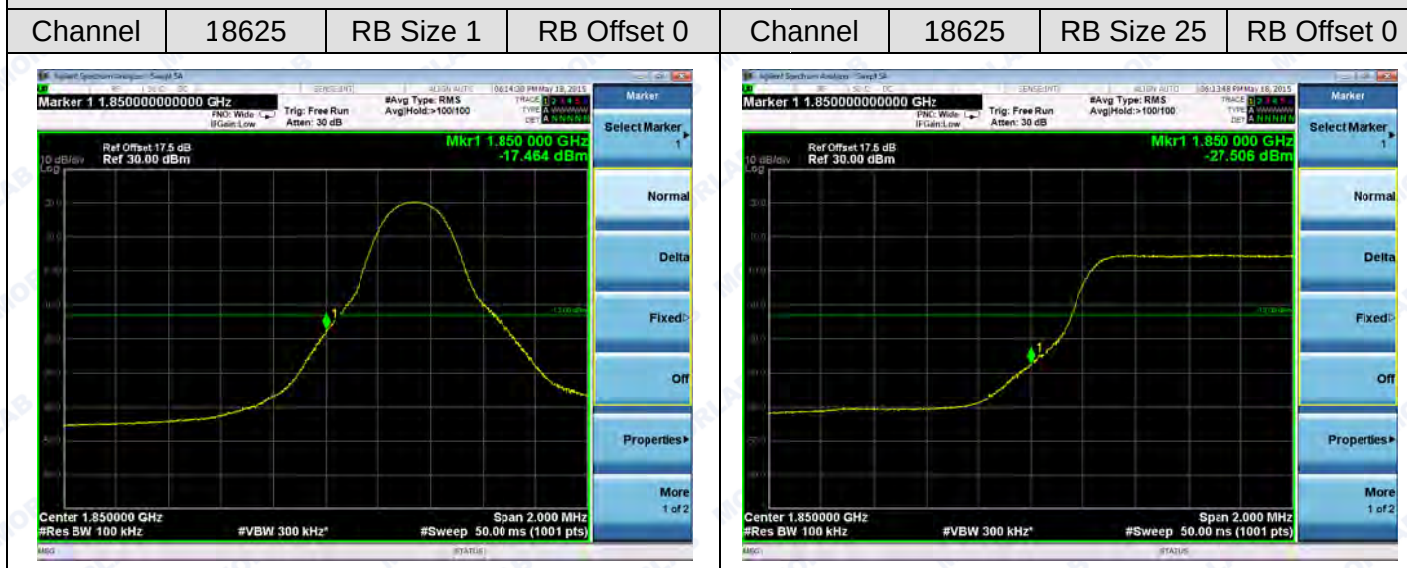




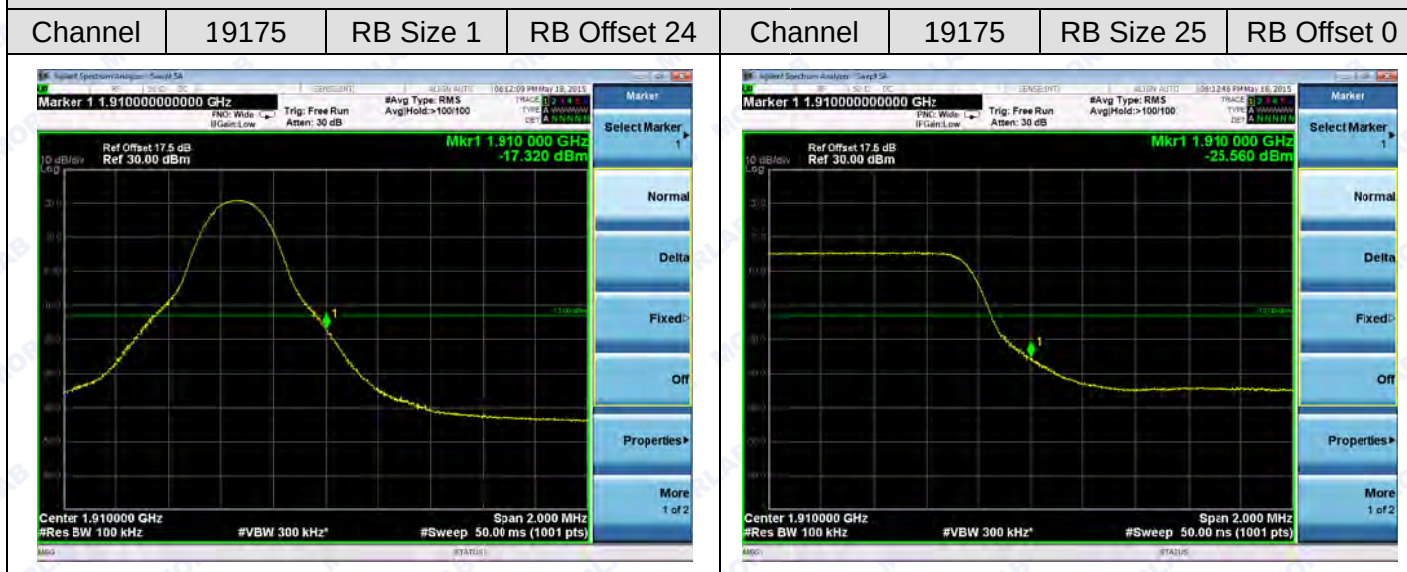
REPORT No.: SZ15040195W02

LTE Band 2

Channel Bandwidth: 5MHz



Channel Bandwidth: 5MHz





LTE Band 2

Channel Bandwidth: 10MHz

Channel	18650	RB Size 1	RB Offset 0	Channel	18650	RB Size 50	RB Offset 0
---------	-------	-----------	-------------	---------	-------	------------	-------------



Channel Bandwidth: 10MHz

Channel	19150	RB Size 1	RB Offset 49	Channel	19150	RB Size 50	RB Offset 0
---------	-------	-----------	--------------	---------	-------	------------	-------------

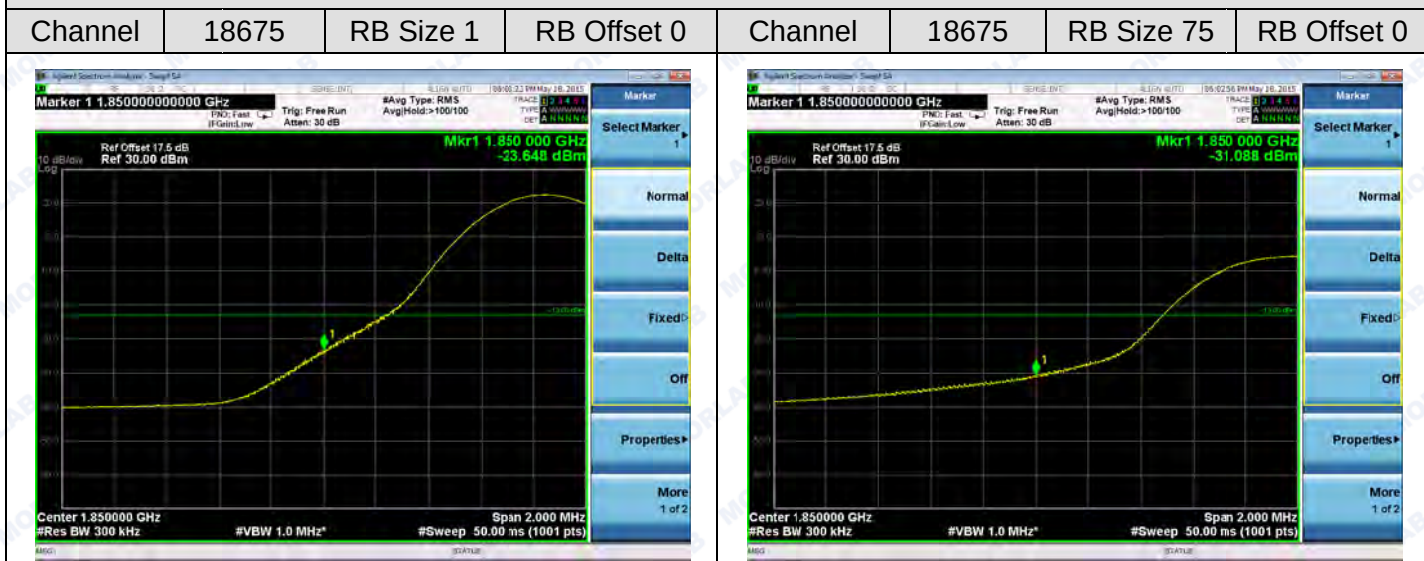




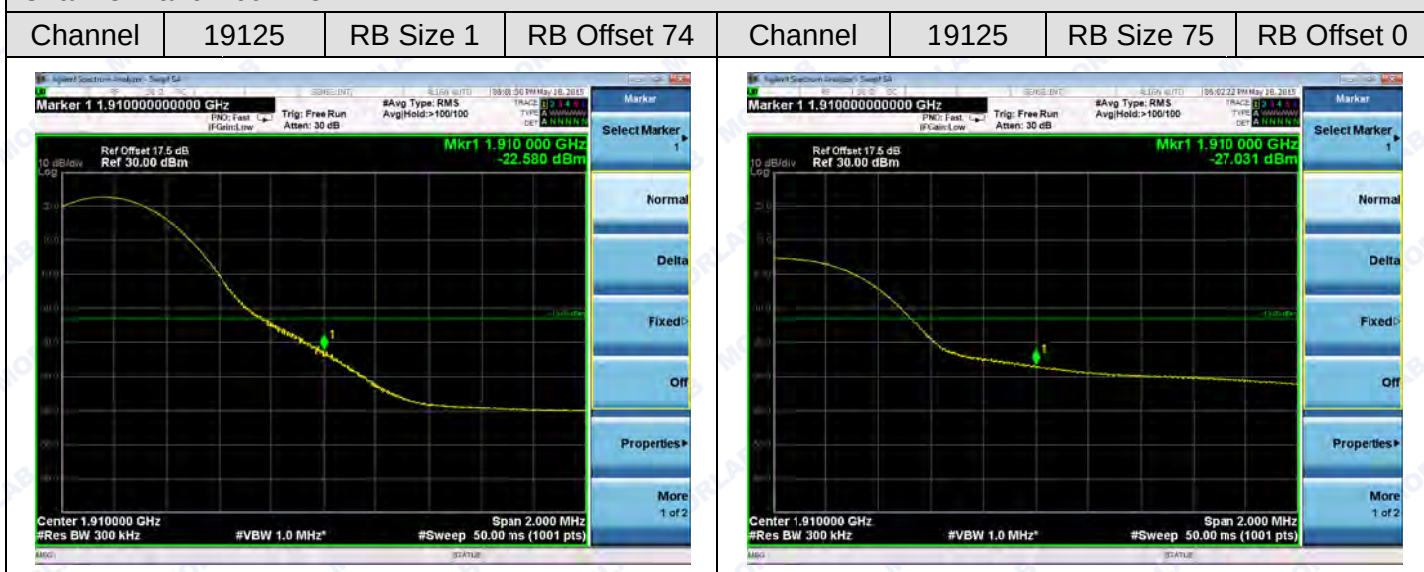
REPORT No.: SZ15040195W02

LTE Band 2

Channel Bandwidth: 15MHz



Channel Bandwidth: 15MHz

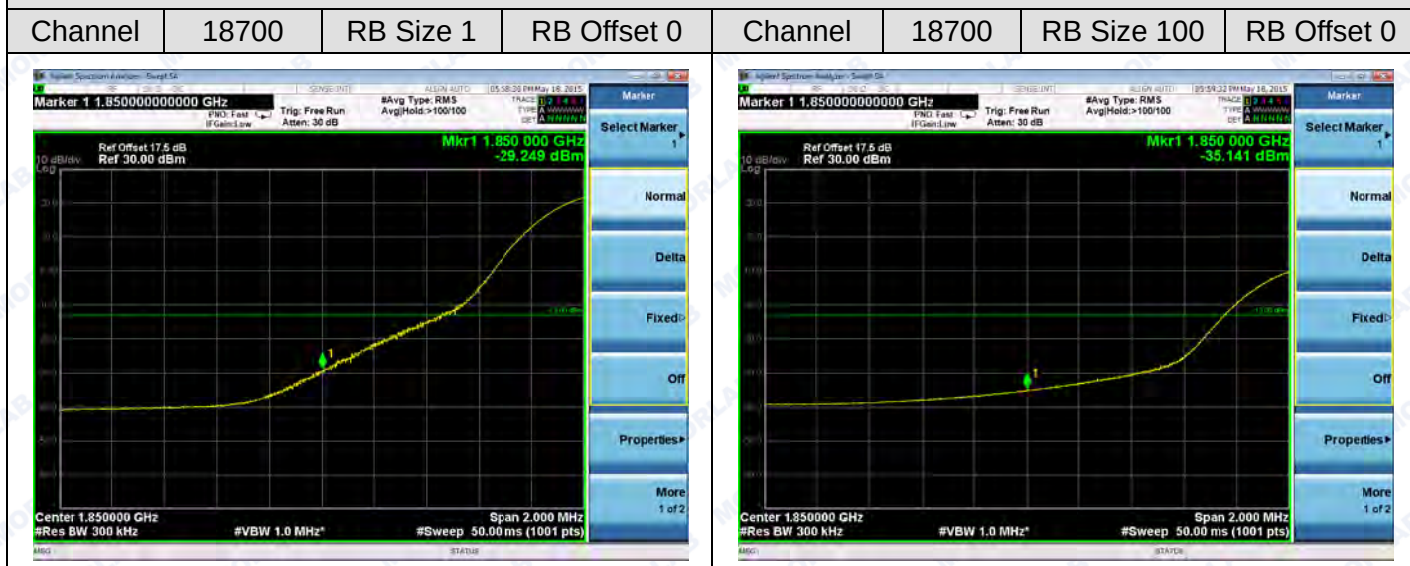




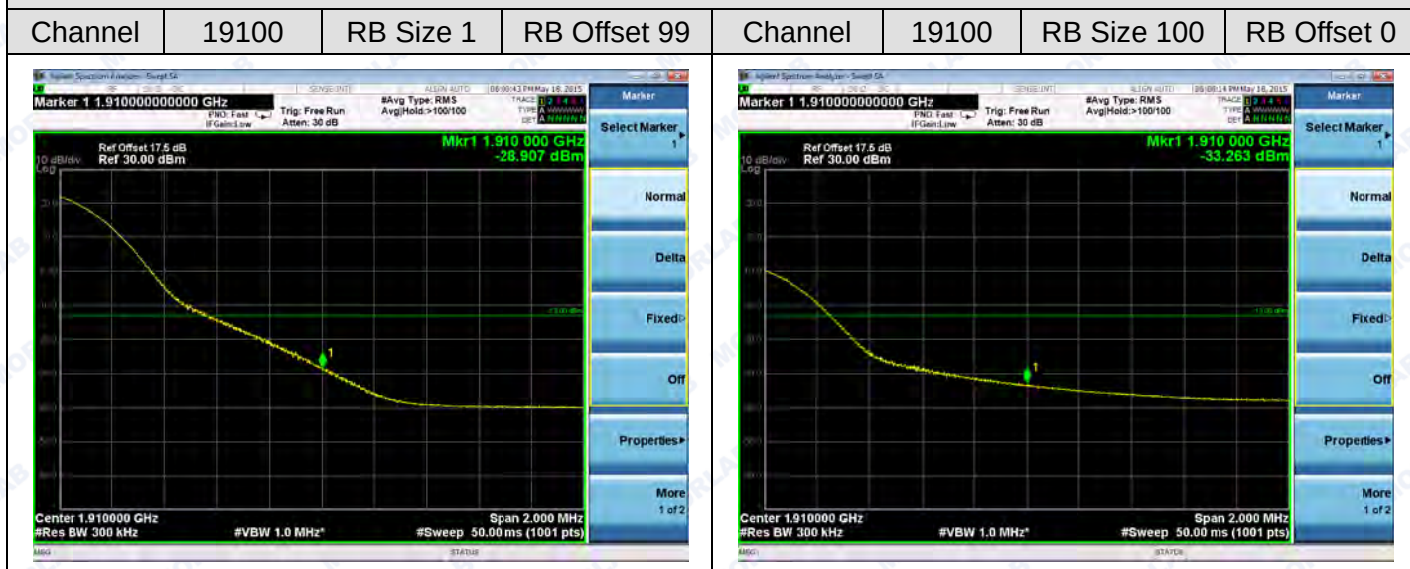
REPORT No.: SZ15040195W02

LTE Band 2

Channel Bandwidth: 20MHz



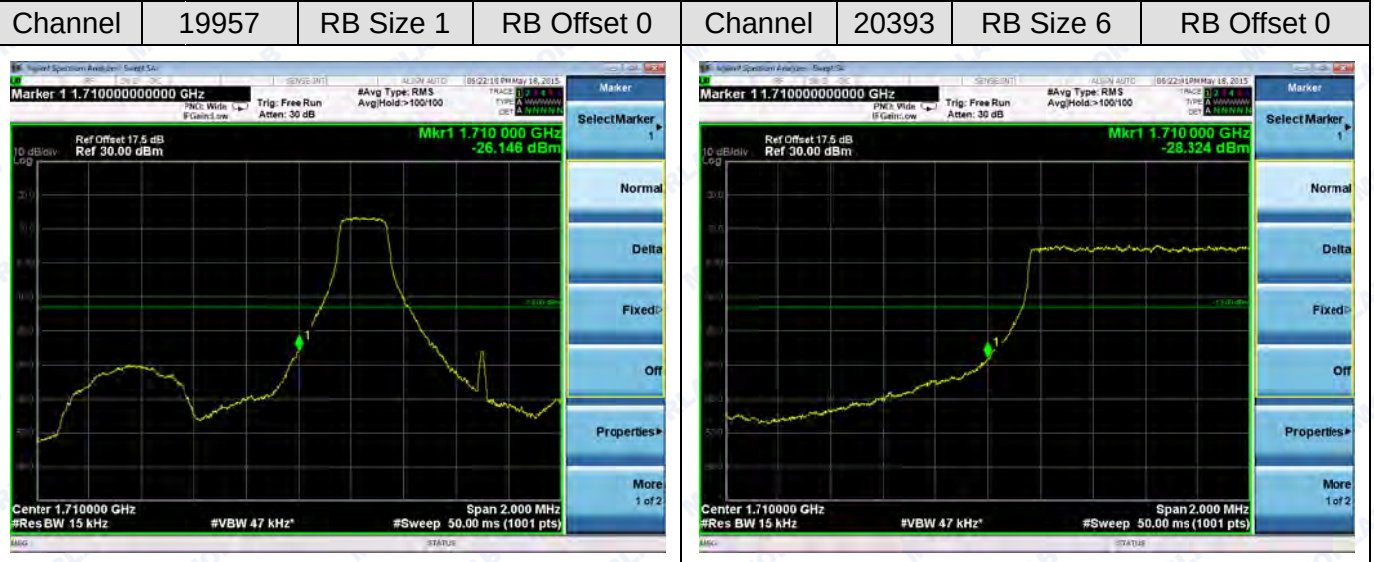
Channel Bandwidth: 20MHz



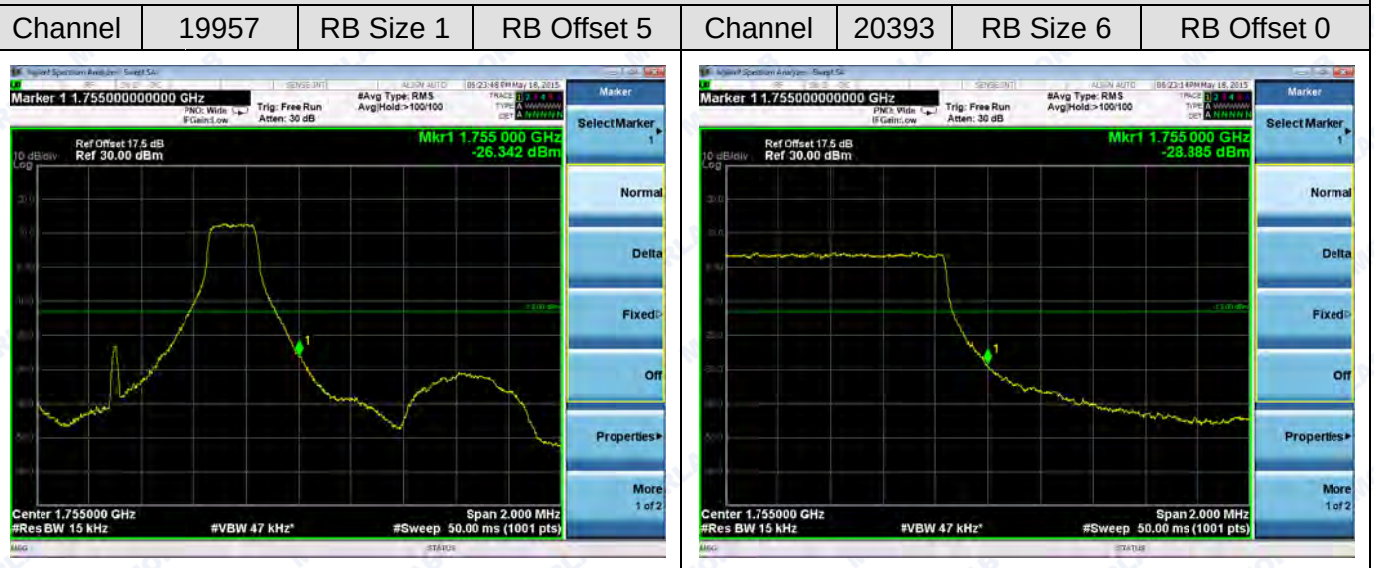


LTE Band 4

Channel Bandwidth: 1.4MHz



Channel Bandwidth: 1.4MHz

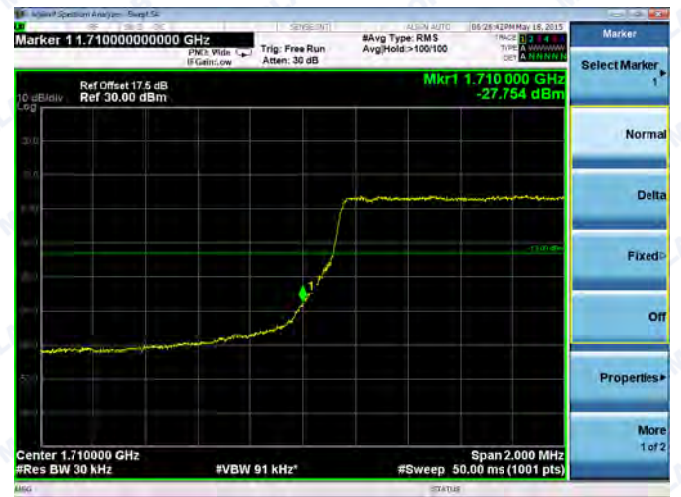




LTE Band 4

Channel Bandwidth: 3MHz

Channel	19965	RB Size 1	RB Offset 0	Channel	20385	RB Size 15	RB Offset 0
---------	-------	-----------	-------------	---------	-------	------------	-------------



Channel Bandwidth: 3MHz

Channel	19965	RB Size 1	RB Offset 14	Channel	20385	RB Size 15	RB Offset 0
---------	-------	-----------	--------------	---------	-------	------------	-------------





LTE Band 4

Channel Bandwidth: 5MHz

Channel	19975	RB Size 1	RB Offset 0	Channel	20375	RB Size 25	RB Offset 0
---------	-------	-----------	-------------	---------	-------	------------	-------------



Channel Bandwidth: 5MHz

Channel	19975	RB Size 1	RB Offset 24	Channel	20375	RB Size 25	RB Offset 0
---------	-------	-----------	--------------	---------	-------	------------	-------------





LTE Band 4

Channel Bandwidth: 10MHz

Channel	20000	RB Size 1	RB Offset 0	Channel	20350	RB Size 50	RB Offset 0
---------	-------	-----------	-------------	---------	-------	------------	-------------



Channel Bandwidth: 10MHz

Channel	20000	RB Size 1	RB Offset 49	Channel	20350	RB Size 50	RB Offset 0
---------	-------	-----------	--------------	---------	-------	------------	-------------





LTE Band 4

Channel Bandwidth: 15MHz

Channel	20025	RB Size 1	RB Offset 0	Channel	20325	RB Size 75	RB Offset 0
---------	-------	-----------	-------------	---------	-------	------------	-------------



Channel Bandwidth: 15MHz

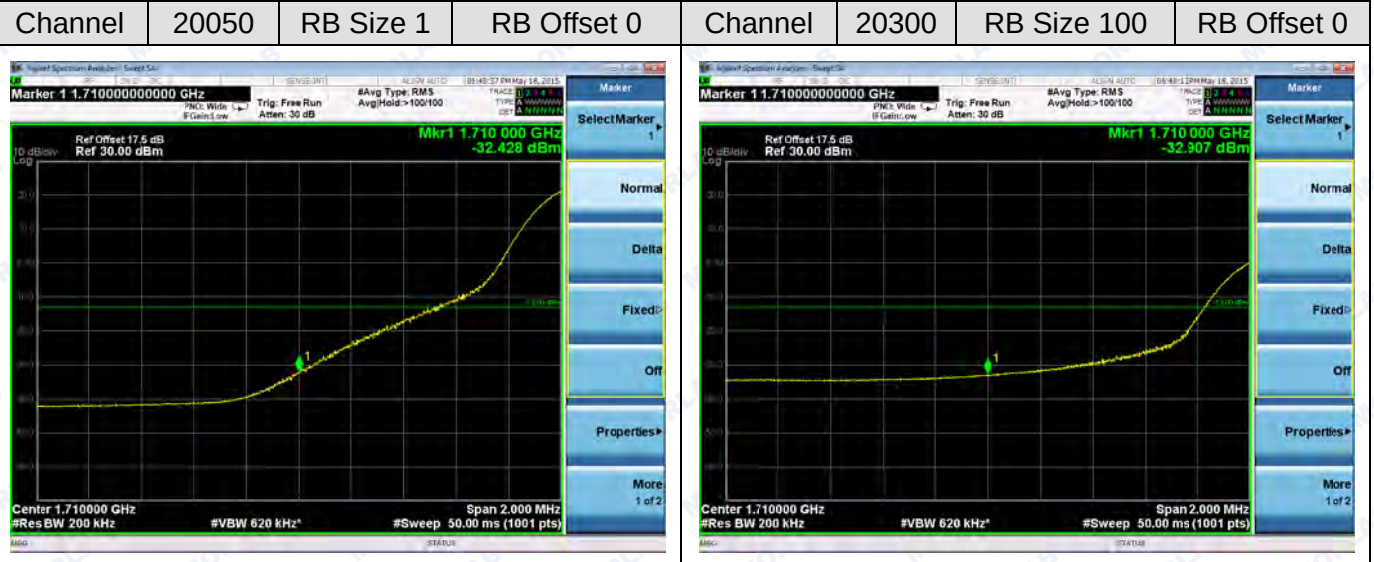
Channel	20025	RB Size 1	RB Offset 74	Channel	20325	RB Size 75	RB Offset 0
---------	-------	-----------	--------------	---------	-------	------------	-------------



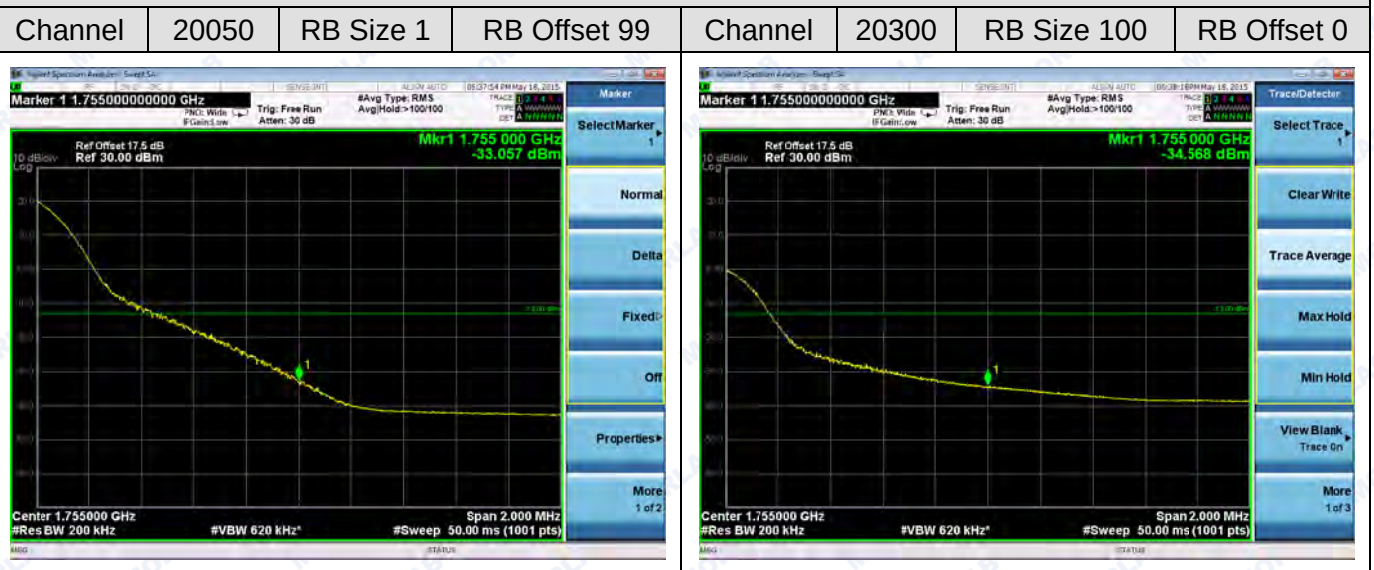


LTE Band 4

Channel Bandwidth: 20MHz



Channel Bandwidth: 20MHz





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LTE Band 5

Channel Bandwidth: 1.4MHz

Channel	20407	RB Size 1	RB Offset 0	Channel	20407	RB Size 6	RB Offset 0
---------	-------	-----------	-------------	---------	-------	-----------	-------------



Channel Bandwidth: 1.4MHz

Channel	20642	RB Size 1	RB Offset 5	Channel	20642	RB Size 6	RB Offset 0
---------	-------	-----------	-------------	---------	-------	-----------	-------------



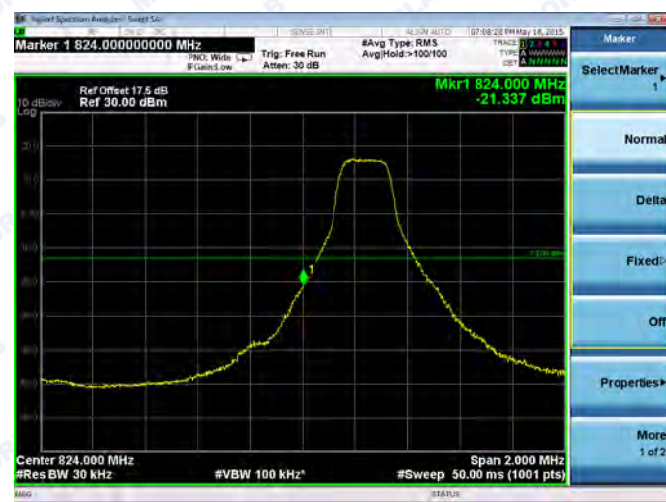


REPORT No.: SZ15040195W02

LTE Band 5

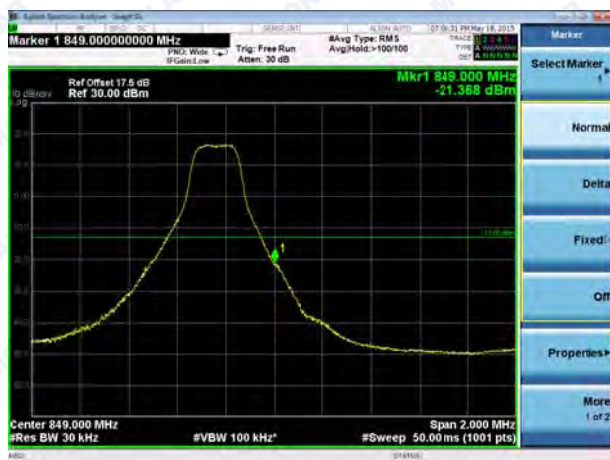
Channel Bandwidth: 3MHz

Channel	20415	RB Size 1	RB Offset 0	Channel	20415	RB Size 15	RB Offset 0
---------	-------	-----------	-------------	---------	-------	------------	-------------



Channel Bandwidth: 3MHz

Channel	20634	RB Size 1	RB Offset 14	Channel	20634	RB Size 15	RB Offset 0
---------	-------	-----------	--------------	---------	-------	------------	-------------





LTE Band 5

Channel Bandwidth: 5MHz

Channel	20425	RB Size 1	RB Offset 0	Channel	20425	RB Size 25	RB Offset 0
---------	-------	-----------	-------------	---------	-------	------------	-------------



Channel Bandwidth: 5MHz

Channel	20625	RB Size 1	RB Offset 24	Channel	20625	RB Size 25	RB Offset 0
---------	-------	-----------	--------------	---------	-------	------------	-------------





LTE Band 5

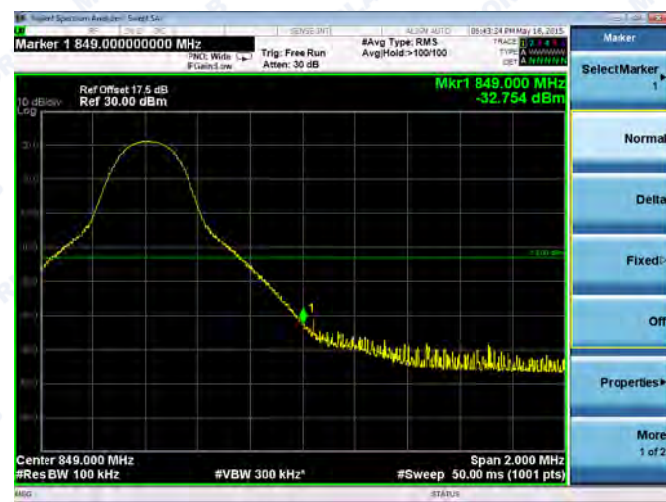
Channel Bandwidth: 10MHz

Channel	20450	RB Size 1	RB Offset 0	Channel	20450	RB Size 50	RB Offset 0
---------	-------	-----------	-------------	---------	-------	------------	-------------



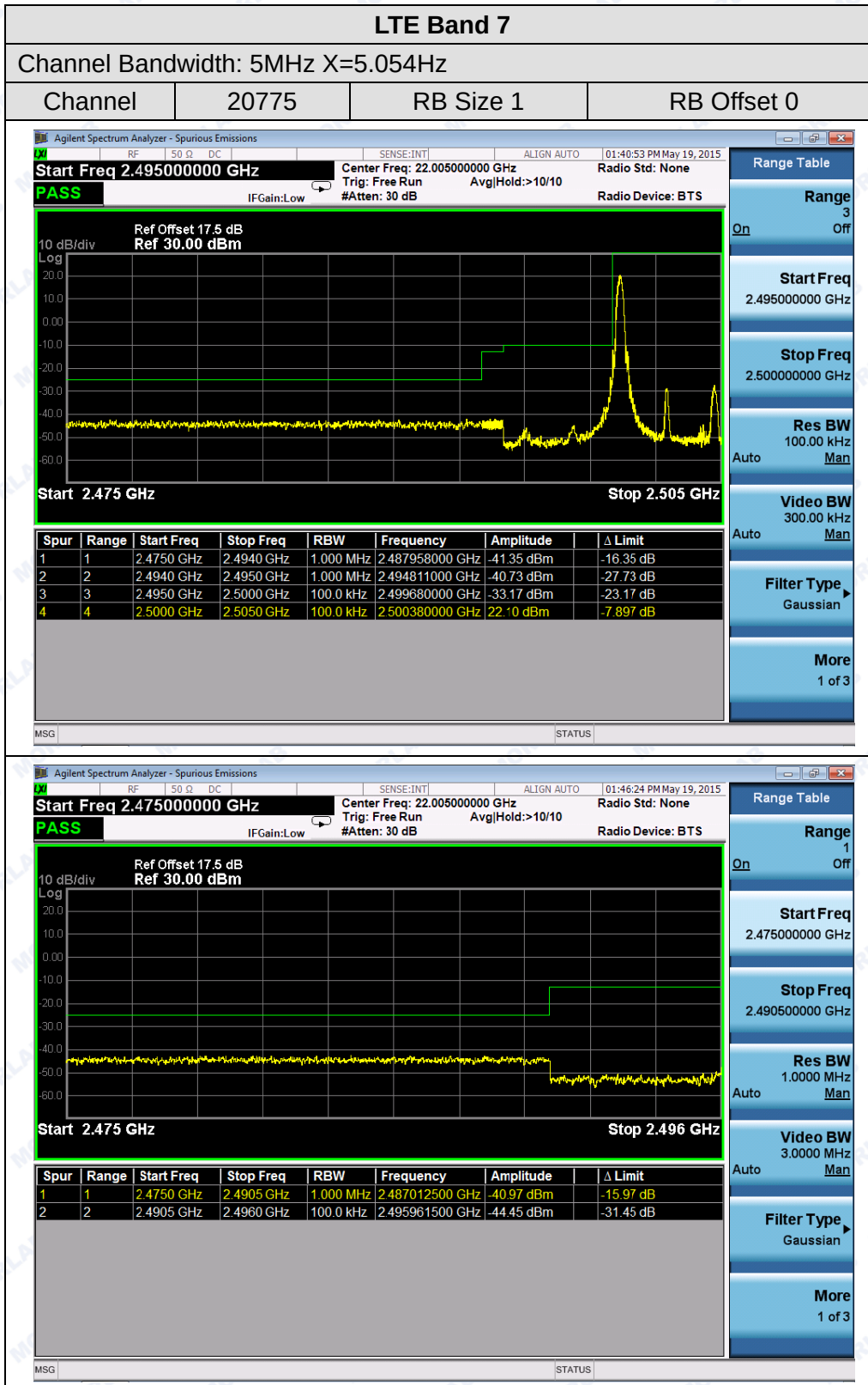
Channel Bandwidth: 10MHz

Channel	20600	RB Size 1	RB Offset 49	Channel	20600	RB Size 50	RB Offset 0
---------	-------	-----------	--------------	---------	-------	------------	-------------



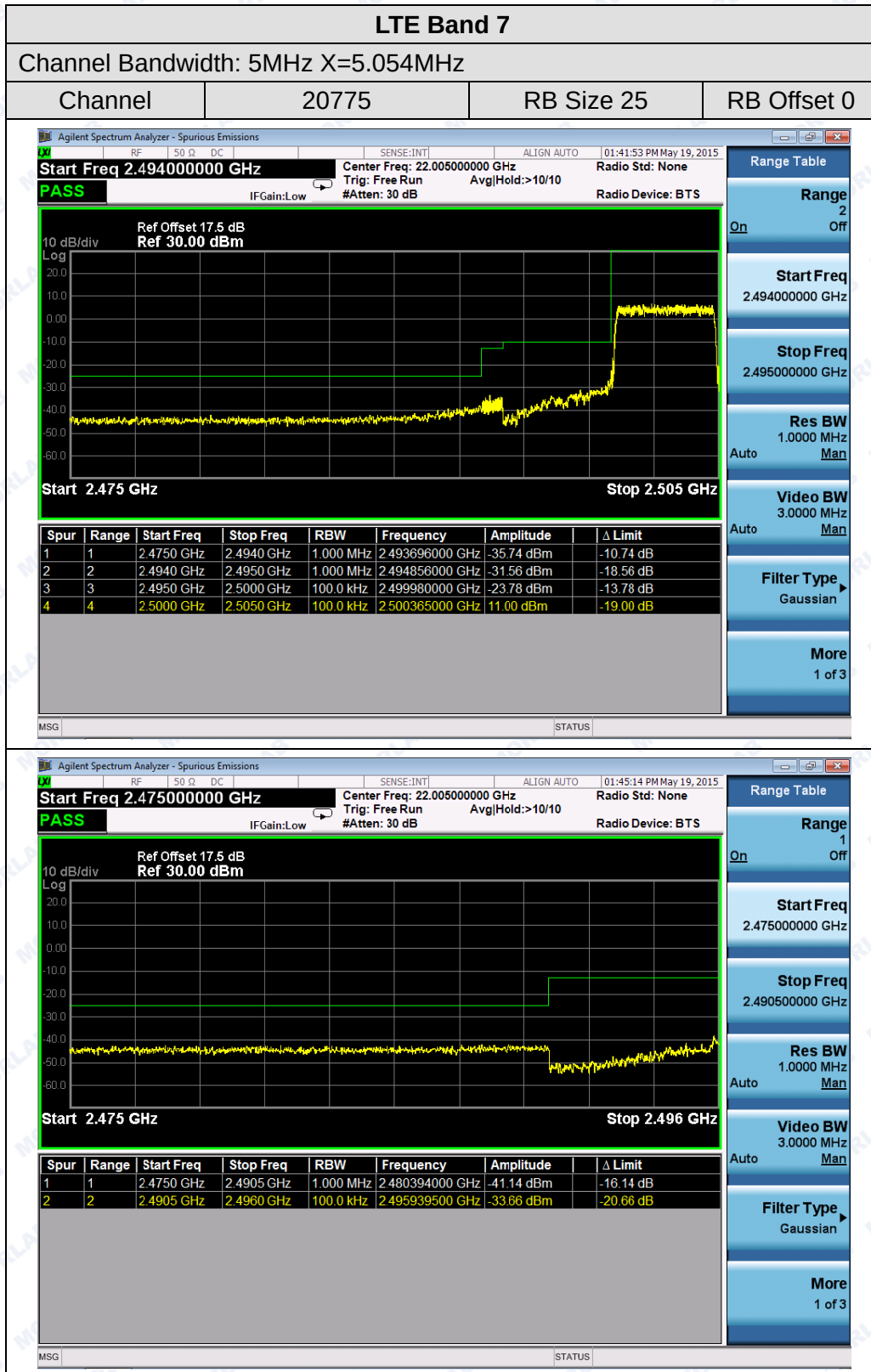


REPORT No.: SZ15040195W02



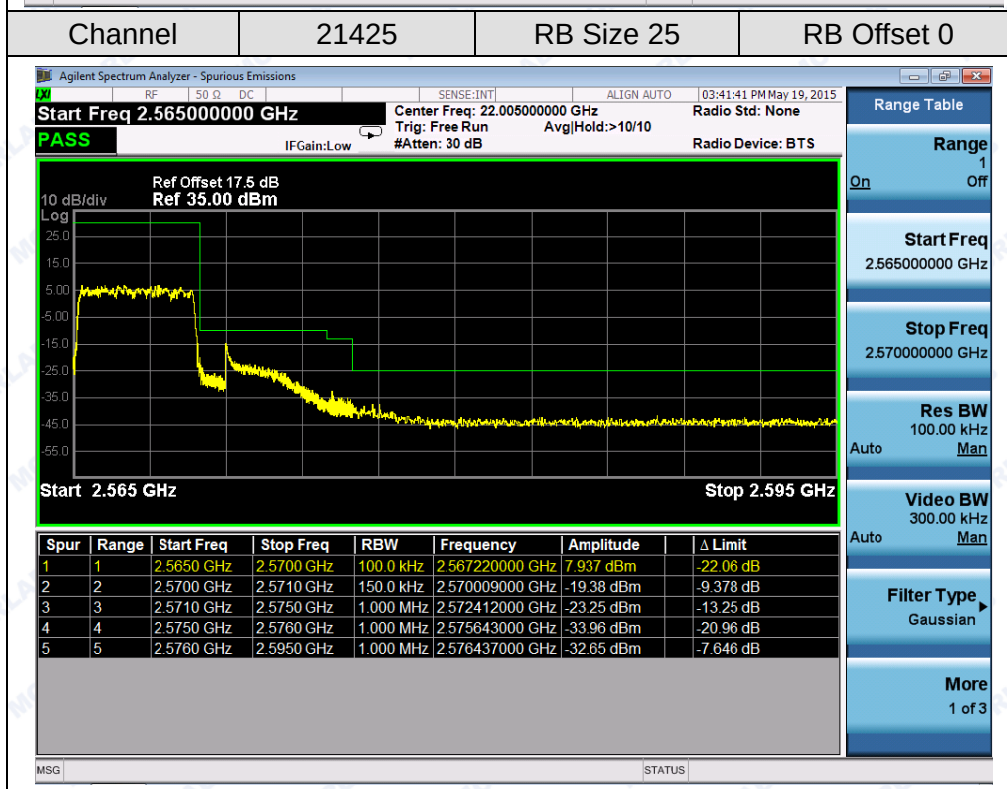
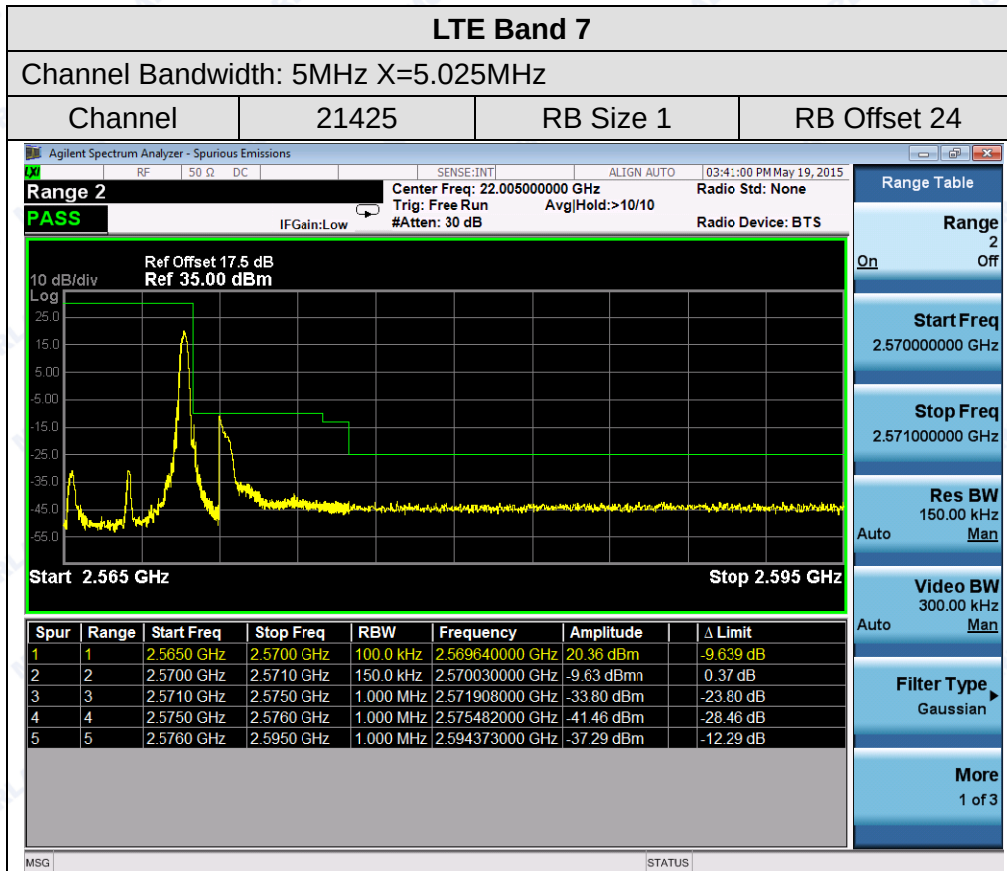


REPORT No.: SZ15040195W02



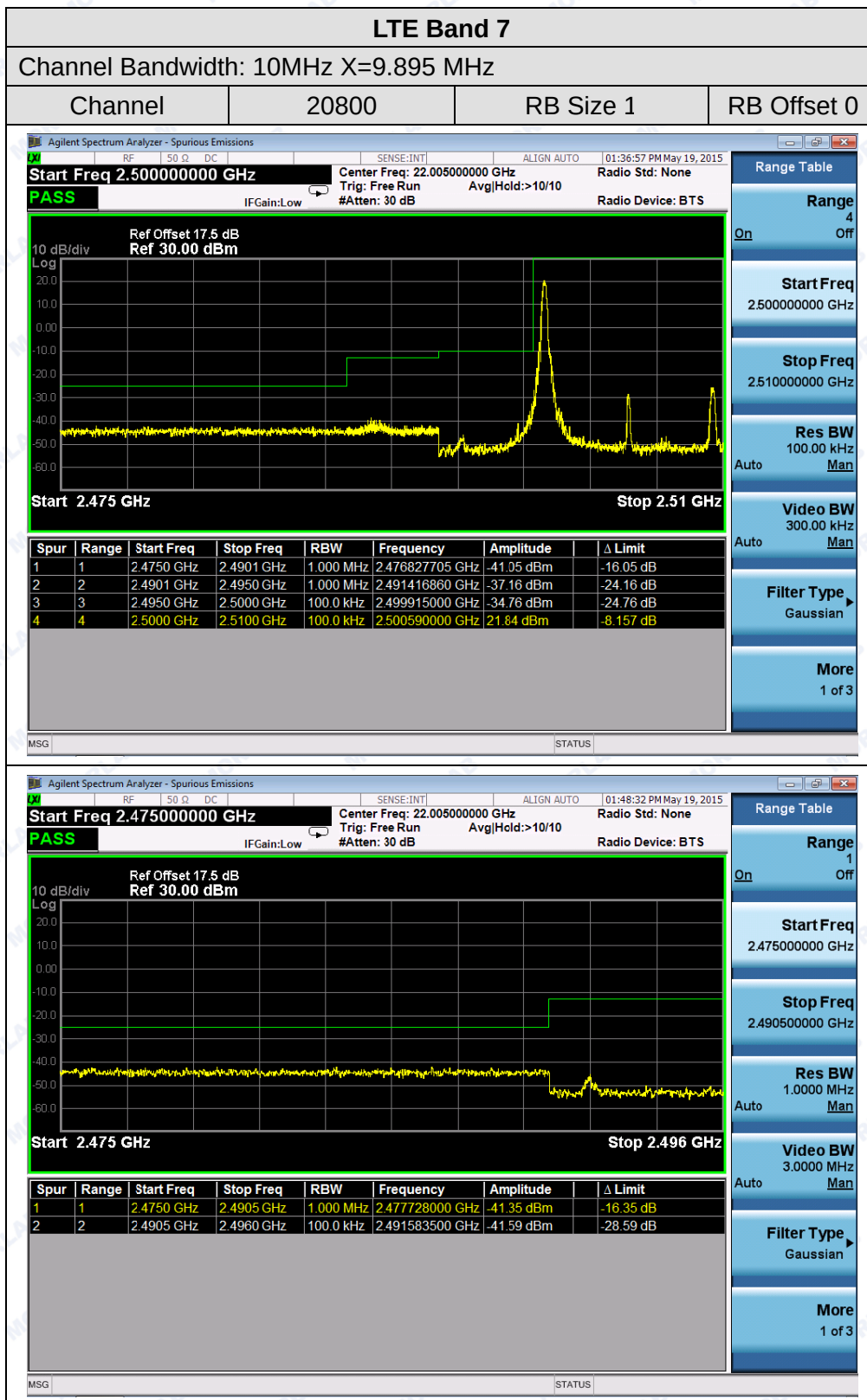


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REPORT No.: SZ15040195W02





REPORT No.: SZ15040195W02





REPORT No.: SZ15040195W02

LTE Band 7

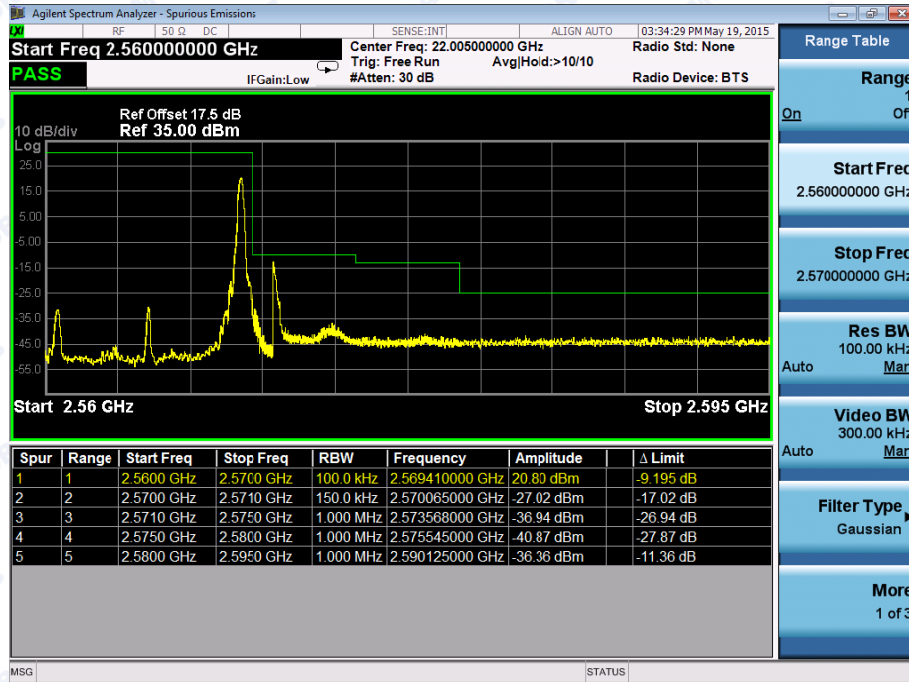
Channel Bandwidth: 10MHz X=10.01 MHz

Channel

21400

RB Size 1

RB Offset 49

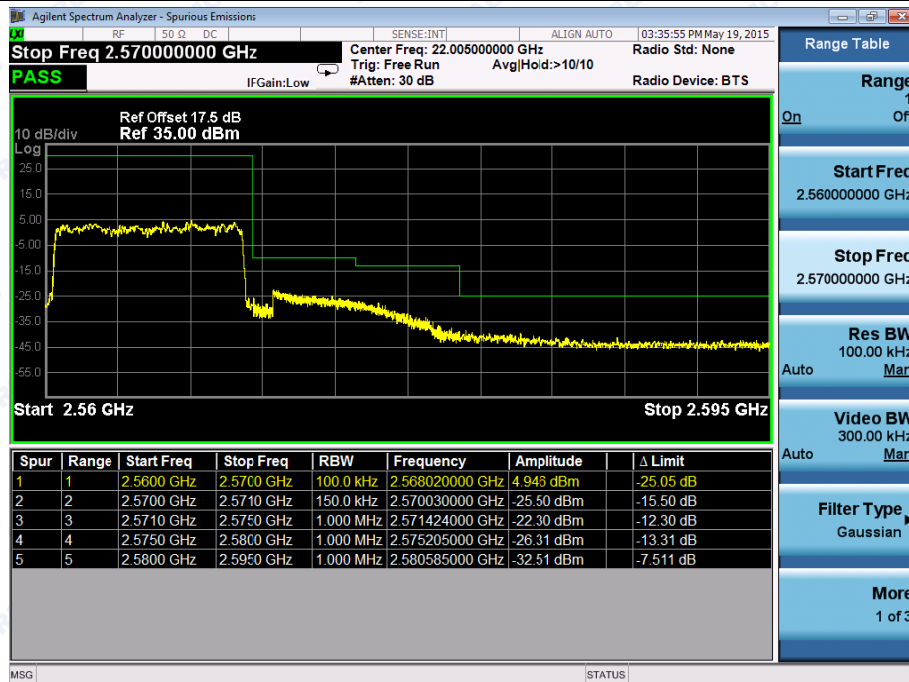


Channel

21400

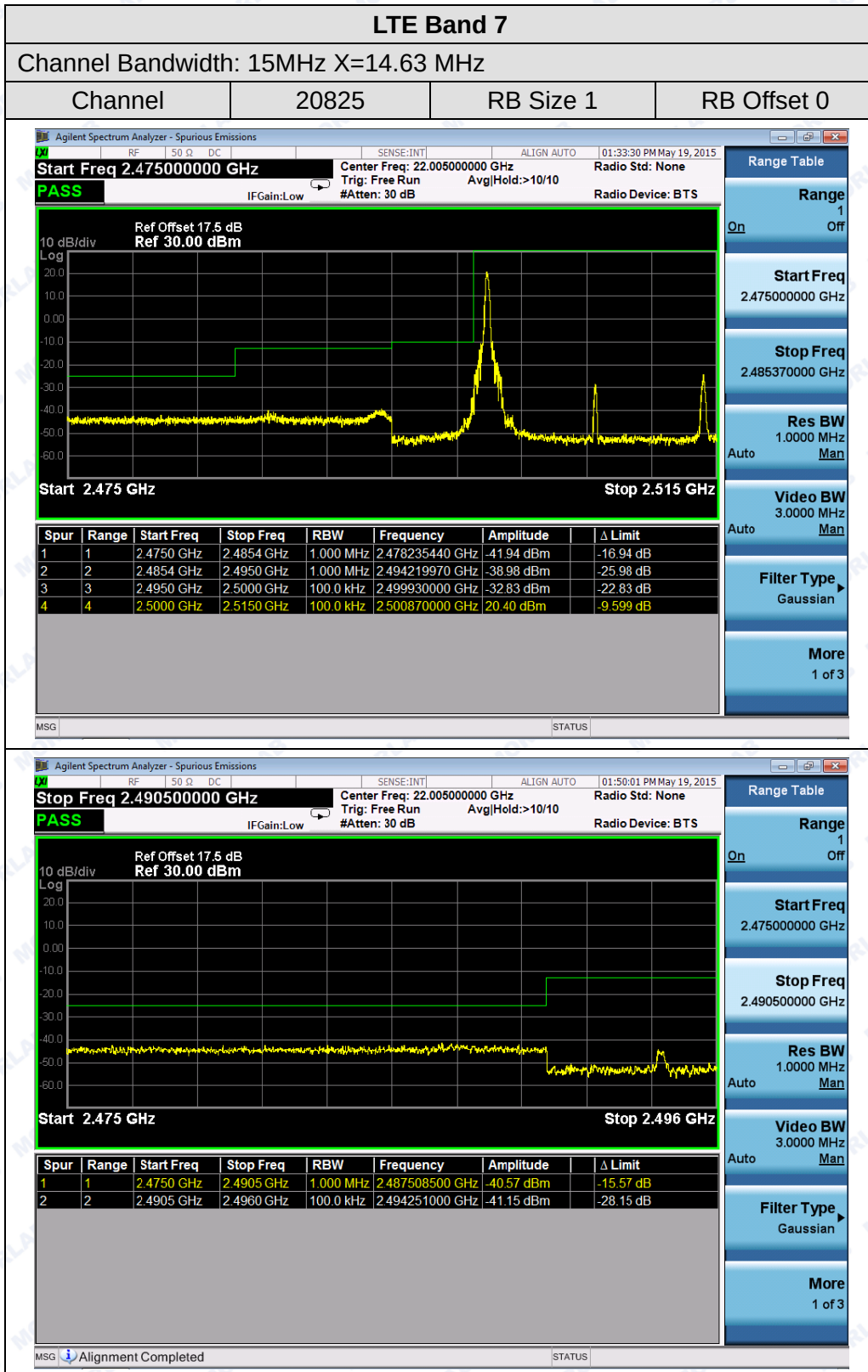
RB Size 50

RB Offset 0





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Channel Bandwidth: 15MHz X=14.63MHz

Agilent Spectrum Analyzer - Spurious Emissions

RF 50 Ω DC SENSE:INT ALIGN AUTO 01:32:36 PM May 19, 2015

Start Freq 2.500000000 GHz Center Freq: 22.005000000 GHz Radio Std: None
 Trig: Free Run Avg/Hold: >10/10
PASS IF Gain: Low #Atten: 30 dB Radio Device: BTS

10 dB/div
 Log
 Ref Offset 17.5 dB
 Ref 30.00 dBm

Start 2.475 GHz **Stop 2.515 GHz**

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.4750 GHz	2.4854 GHz	1.000 MHz	2.476711050 GHz	-41.71 dBm	-16.71 dB
2	2	2.4854 GHz	2.4950 GHz	1.000 MHz	2.490868730 GHz	-30.92 dBm	-17.92 dB
3	3	2.4950 GHz	2.5000 GHz	100.0 kHz	2.497870000 GHz	-30.00 dBm	-20.00 dB
4	4	2.5000 GHz	2.5150 GHz	100.0 kHz	2.512750000 GHz	7.464 dBm	-22.54 dB

MSG STATUS





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LTE Band 7

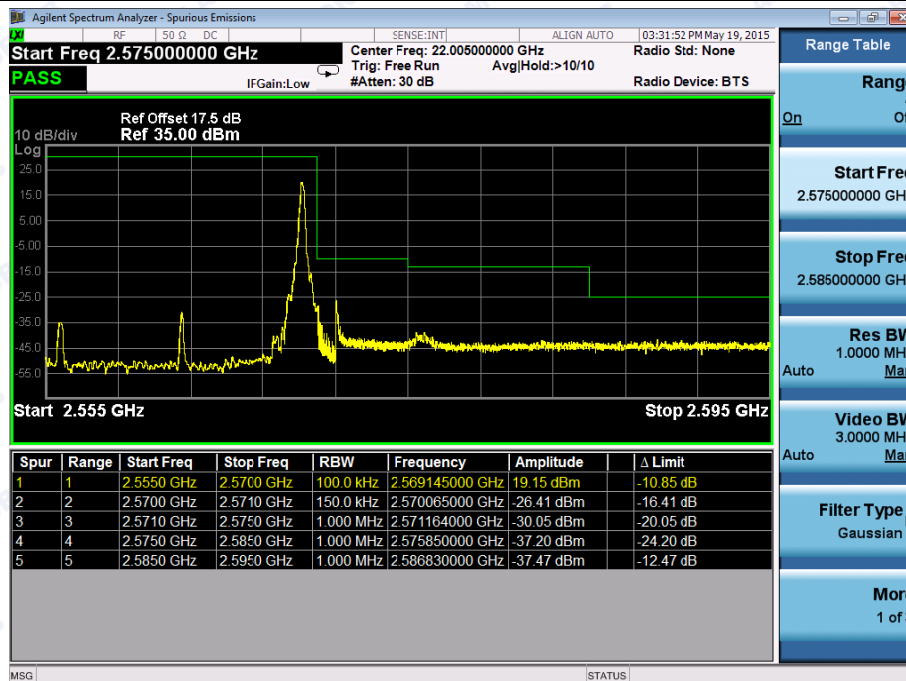
Channel Bandwidth: 15MHz X=14.81MHz

Channel

21375

RB Size 1

RB Offset 74

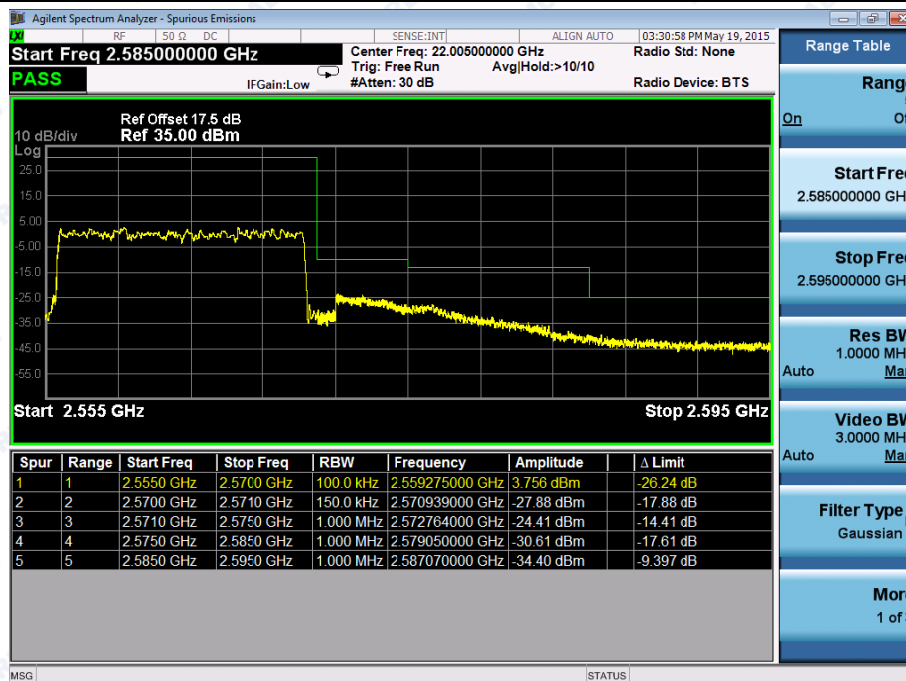


Channel

21375

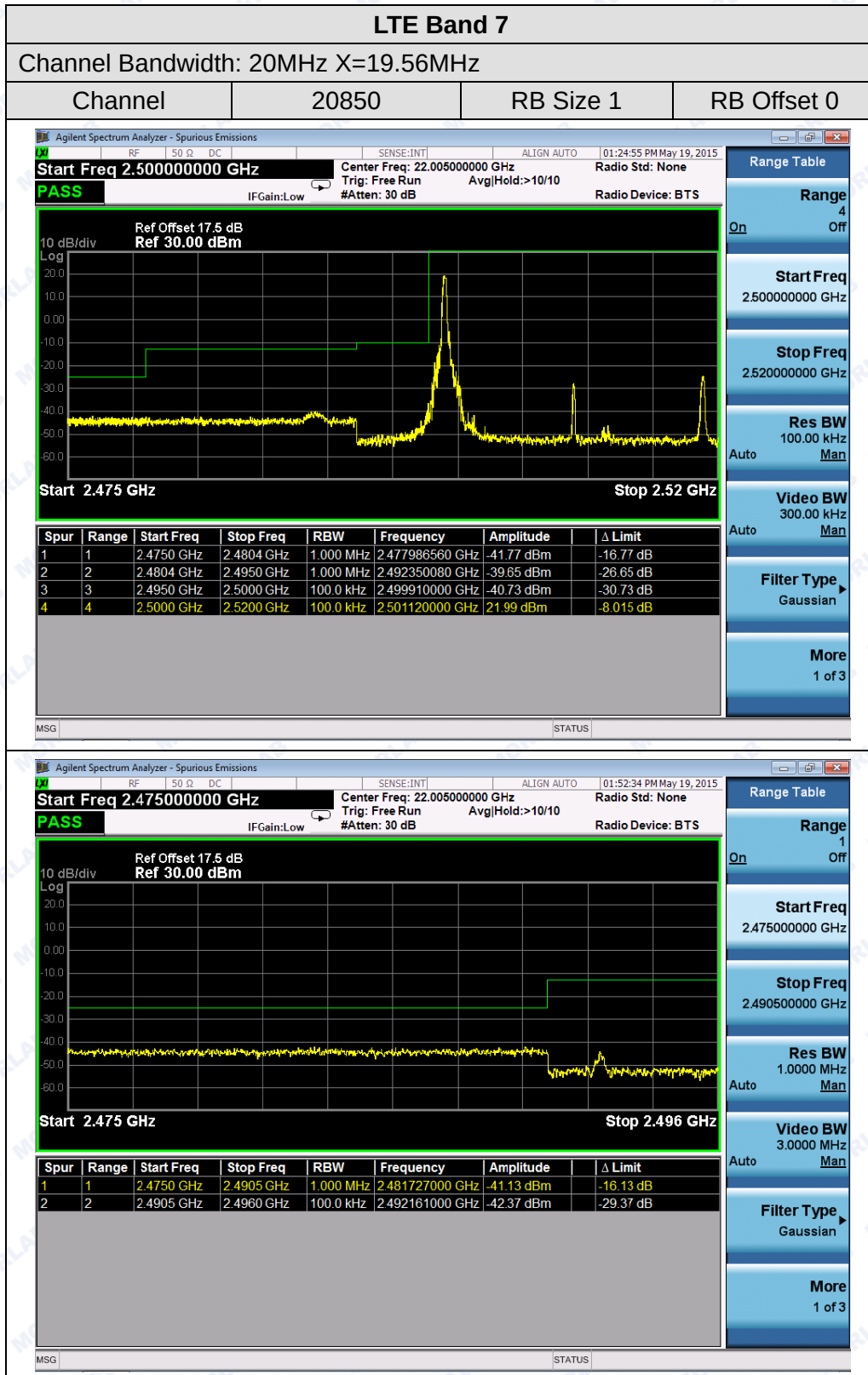
RB Size 75

RB Offset 0



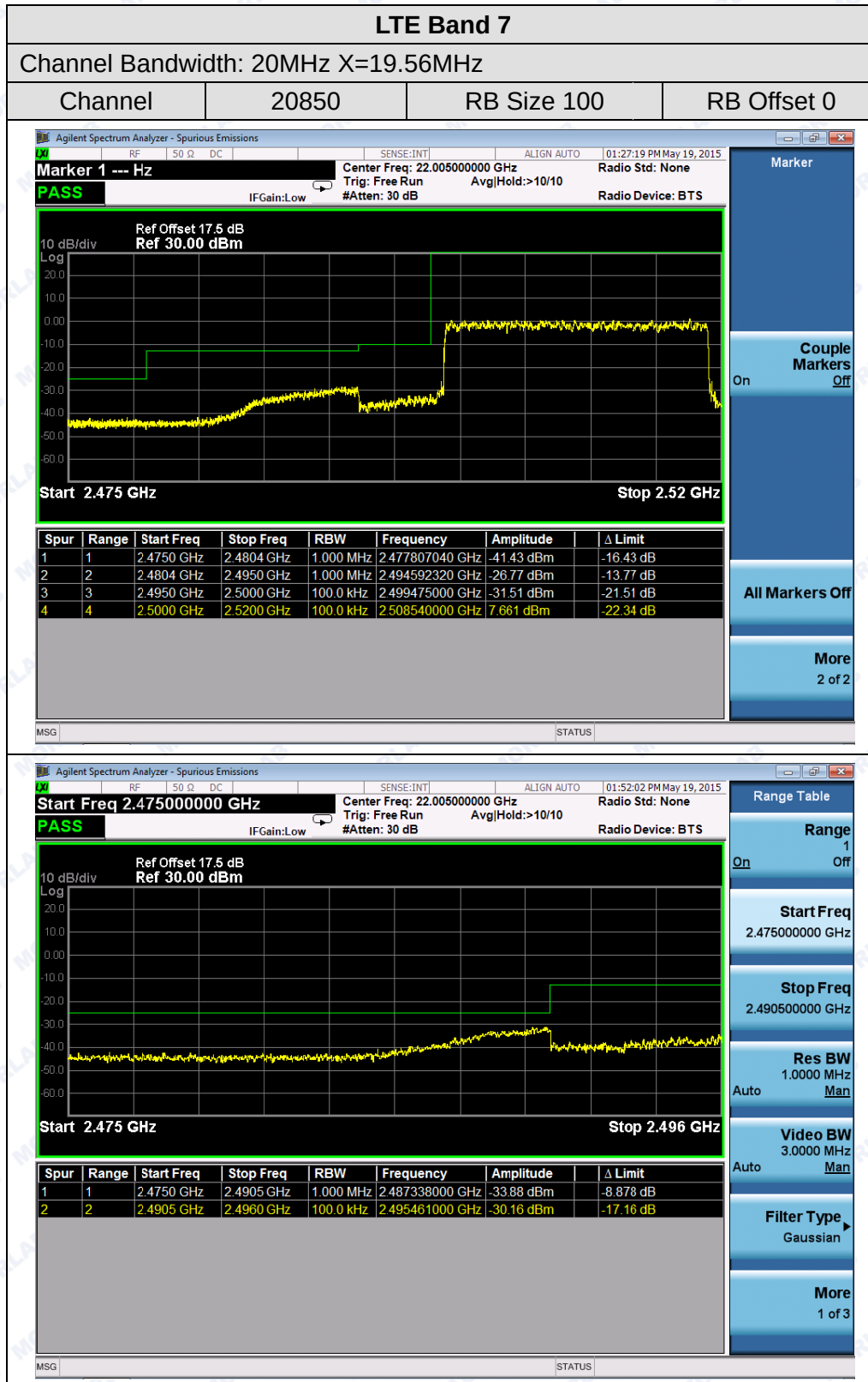


REPORT No.: SZ15040195W02





REPORT No.: SZ15040195W02





REPORT No.: SZ15040195W02

LTE Band 7

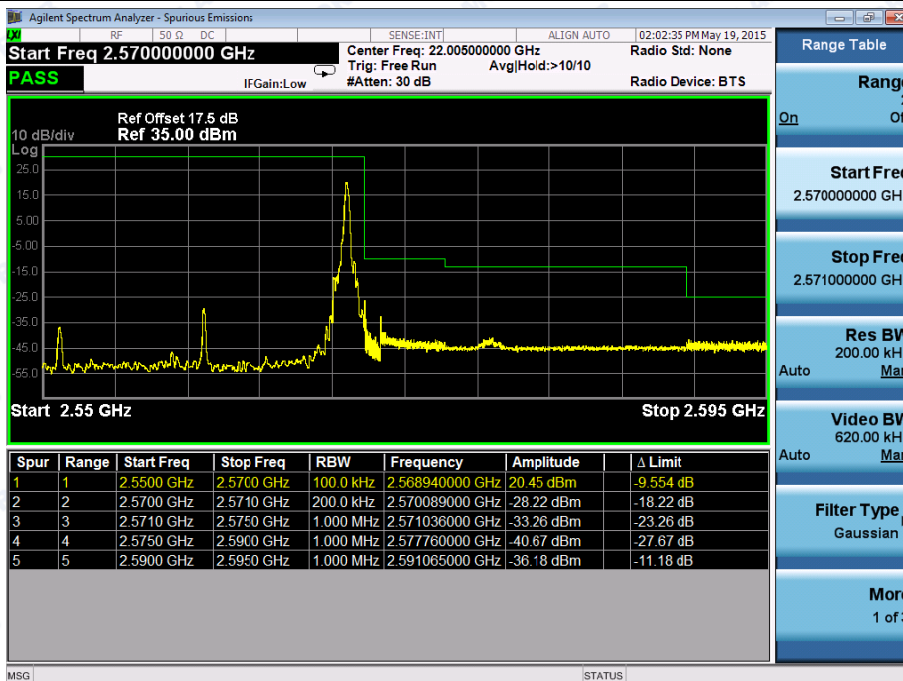
Channel Bandwidth: 20MHz X=19.71MHz

Channel

21350

RB Size 1

RB Offset 99

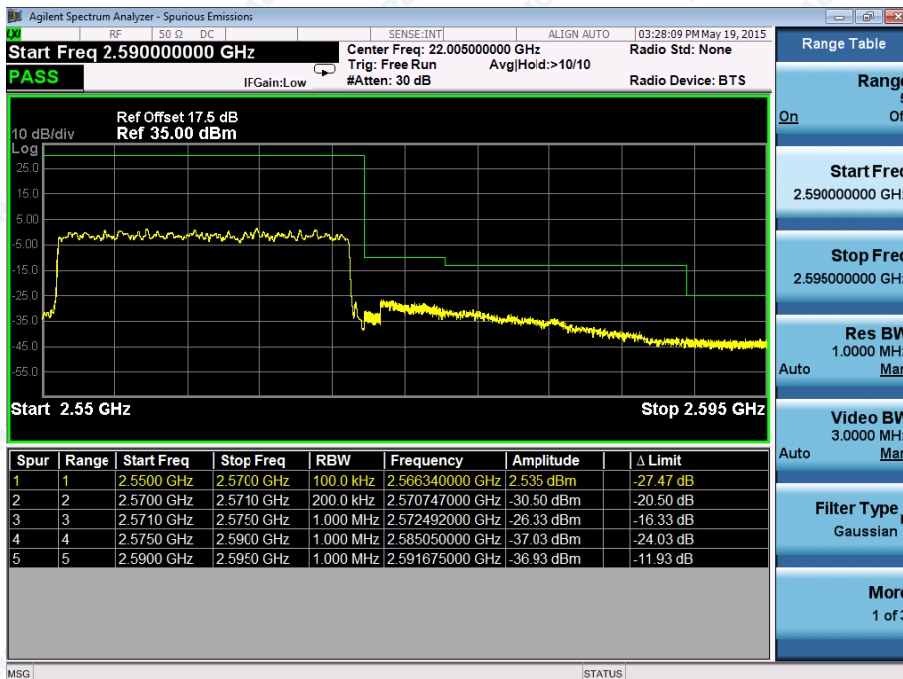


Channel

21350

RB Size 100

RB Offset 0



2.7 Transmitter Radiated Power (EIRP/ERP)

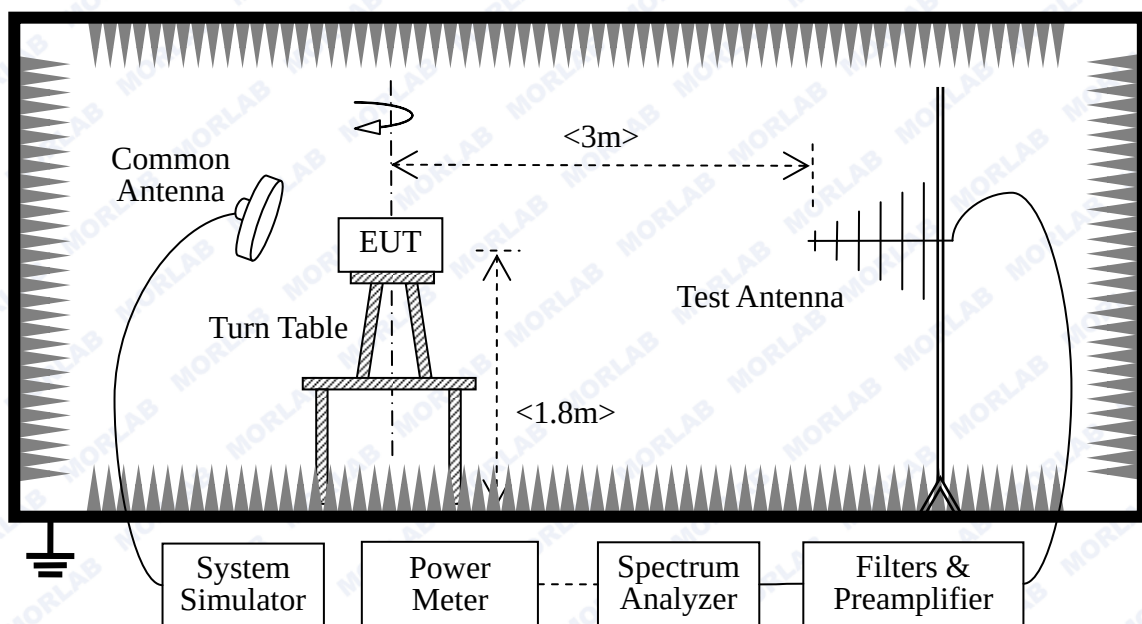
2.7.1 Requirement

According to FCC section 27.50 (d), fixed, mobile and portable (hand-held) stations in the 1710-1755MHz band are limited to 1wat EIRP.

Portable stations (hand-held devices) operating in the 704-716MHz band are limited to 3watts ERP.

2.7.2 Test Description

Test Setup:



The EUT, which is powered by the PC, is located in a 3m Full-Anechoic Chamber; the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading.

A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power, and only the test result of the maximum output power was recorded.

The Test Antenna is a Bi-Log one (used for 30MHz to 1GHz) or a Horn one (used for above 3GHz), and it's located at the same height as the EUT. The Filters consists of Notch Filters and High Pass Filter.



Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	Rohde& Schwarz	CMW500	1201.0002k50/ 124534/wk	2015.02.26	2016.02.25
Spectrum Analyzer	Rohde& Schwarz	FSL	10246	2015.02.26	2016.02.25
Spectrum Analyzer	Agilent	E4445A	MY44200685	2015.02.26	2016.02.25
Full-Anechoic Chamber	Albatross	9m*6m*6m	(n.a.)	2015.02.26	2016.02.25
Test Antenna - Bi-Log	Schwarzbeck	VULB 9163	9163-274	2015.02.26	2016.02.25
Test Antenna - Horn	Schwarzbeck	BBHA 9120C	9120C-384	2015.02.26	2016.02.25

2.7.3 Test Result

The EUT was verified under all configurations (RB size and offset) and the worst case radiated power reported for each modulation/channel bandwidth.

The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. The lowest, middle and highest channels are tested.

The substitution corrections are obtained as described below:

$$A_{\text{SUBST}} = P_{\text{SUBST_TX}} - P_{\text{SUBST_RX}} - L_{\text{SUBST_CABLES}} + G_{\text{SUBST_TX_ANT}}$$

$$A_{\text{TOT}} = L_{\text{CABLES}} + A_{\text{SUBST}}$$

Where A_{SUBST} is the final substitution correction including receive antenna gain.

$P_{\text{SUBST_TX}}$ is signal generator level,

$P_{\text{SUBST_RX}}$ is receiver level,

$L_{\text{SUBST_CABLES}}$ is cable losses including TX cable,

$G_{\text{SUBST_TX_ANT}}$ is substitution antenna gain.

A_{TOT} is total correction factor including cable loss and substitution correction

During the test, the data of A_{TOT} was added in the Test Spectrum Analyze, so Spectrum Analyze reading is the final values which contain the data of A_{TOT} .



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Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		EIRP (dBm)
					RB Size	RB Offset	
LTE Band 2	20MHz	L 18700	1860	QPSK	1	0	21.17
					1	49	21.33
					1	99	20.74
					50	0	20.85
					50	25	20.62
					50	49	20.71
					100	0	20.54
				16-QAM	1	0	20.37
					1	49	20.17
					1	99	20.08
					50	0	20.31
					50	25	19.96
					50	49	19.87
					100	0	19.88
		M 18900	1880	QPSK	1	0	21.62
					1	49	21.71
					1	99	21.32
					50	0	20.83
					50	25	20.29
					50	49	20.37
					100	0	20.41
				16-QAM	1	0	20.53
					1	49	20.41
					1	99	20.69
					50	0	20.32
					50	25	20.41
					50	49	19.98
					100	0	19.68
		H 19100	1900	QPSK	1	0	21.34
					1	49	21.59
					1	99	21.33
					50	0	20.87
					50	25	20.92
					50	49	20.34
					100	0	20.18
				16-QAM	1	0	20.44
					1	49	20.36
					1	99	20.41
					50	0	19.89
					50	25	20.08
					50	49	20.17
					100	0	20.01



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Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		EIRP (dBm)
					RB Size	RB Offset	
LTE Band 2	15MHz	L 18675	1857.5	QPSK	1	0	21.46
					1	37	20.77
					1	74	21.13
					36	0	20.87
					36	18	20.55
					36	35	20.82
					75	0	20.37
		M 18900	1880	16-QAM	1	0	20.45
					1	37	20.31
					1	74	20.44
					36	0	20.05
					36	18	19.83
					36	35	19.95
					75	0	19.45
				QPSK	1	0	21.10
					1	37	21.02
					1	74	21.17
					36	0	20.49
					36	18	20.52
					36	35	20.31
					75	0	20.16
		H 19125	1902.5	16-QAM	1	0	20.84
					1	37	20.71
					1	74	20.43
					36	0	19.88
					36	18	19.92
					36	35	20.11
					75	0	19.89
				QPSK	1	0	21.33
					1	37	21.52
					1	74	21.44
					36	0	20.71
					36	18	20.34
					36	35	20.41
					75	0	20.22
				16-QAM	1	0	20.33
					1	37	20.35
					1	74	20.29
					36	0	20.16
					36	18	20.28
					36	35	20.06
					75	0	19.74



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Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		EIRP (dBm)
					RB Size	RB Offset	
LTE Band 2	10MHz	L 18650	1855	QPSK	1	0	20.66
					1	24	20.44
					1	49	20.86
					25	0	20.07
					25	12	20.14
					25	24	20.03
					50	0	20.13
				16-QAM	1	0	20.23
					1	24	20.46
					1	49	20.57
					25	0	20.33
					25	12	20.17
					25	24	20.29
					50	0	19.12
		M 18900	1880	QPSK	1	0	21.17
					1	24	21.25
					1	49	21.08
					25	0	20.13
					25	12	20.33
					25	24	20.19
					50	0	20.13
				16-QAM	1	0	20.14
					1	24	20.03
					1	49	20.17
					25	0	20.41
					25	12	19.87
					25	24	20.02
					50	0	19.24
		H 19150	1905	QPSK	1	0	20.09
					1	24	21.03
					1	49	20.98
					25	0	20.17
					25	12	20.08
					25	24	20.16
					50	0	20.21
				16-QAM	1	0	20.13
					1	24	20.11
					1	49	20.09
					25	0	19.85
					25	12	20.33
					25	24	19.48
					50	0	19.35



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Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		EIRP (dBm)
					RB Size	RB Offset	
LTE Band 2	5MHz	L 18625	1852.5	QPSK	1	0	21.34
					1	12	21.28
					1	24	20.87
					12	0	20.56
					12	6	20.34
					12	11	20.48
					25	0	20.42
		M 18900	1880	16-QAM	1	0	20.18
					1	12	20.21
					1	24	20.23
					12	0	19.34
					12	6	19.53
					12	11	19.66
					25	0	19.86
				QPSK	1	0	21.01
					1	12	20.74
					1	24	20.83
					12	0	20.12
					12	6	20.51
					12	11	20.33
					25	0	20.52
		H 19175	1907.5	16-QAM	1	0	20.17
					1	12	20.23
					1	24	20.11
					12	0	19.58
					12	6	19.75
					12	11	19.62
					25	0	20.09
				QPSK	1	0	21.48
					1	12	21.37
					1	24	21.24
					12	0	20.56
					12	6	20.33
					12	11	20.41
					25	0	20.71
				16-QAM	1	0	20.96
					1	12	20.81
					1	24	21.02
					12	0	19.85
					12	6	20.05
					12	11	19.96
					25	0	19.88



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Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		EIRP (dBm)
					RB Size	RB Offset	
LTE Band 2	3MHz	L 18615	1851.5	QPSK	1	0	21.02
					1	7	20.91
					1	14	20.84
					8	0	19.52
					8	4	19.71
					8	7	19.63
					15	0	20.72
				16-QAM	1	0	21.01
					1	7	21.09
					1	14	21.07
					8	0	19.82
					8	4	19.56
					8	7	20.01
					15	0	19.63
		M 18900	1880	QPSK	1	0	21.28
					1	7	21.35
					1	14	21.12
					8	0	20.10
					8	4	20.09
					8	7	20.03
					15	0	20.67
				16-QAM	1	0	20.54
					1	7	20.48
					1	14	20.33
					8	0	19.85
					8	4	19.72
					8	7	19.63
					15	0	19.86
		H 19185	1908.5	QPSK	1	0	20.87
					1	7	20.64
					1	14	20.77
					8	0	19.52
					8	4	19.85
					8	7	19.67
					15	0	20.11
				16-QAM	1	0	20.83
					1	7	20.46
					1	14	20.37
					8	0	20.06
					8	4	19.83
					8	7	19.92
					15	0	19.64



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Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		EIRP (dBm)
					RB Size	RB Offset	
LTE Band 2	1.4MHz	L 18607	1850.7	QPSK	1	0	20.48
					1	2	20.52
					1	5	20.71
					3	0	20.88
					3	1	20.71
					3	2	20.80
					6	0	20.15
				16-QAM	1	0	20.11
					1	2	20.32
					1	5	20.24
					3	0	19.52
					3	1	19.71
					3	2	19.66
					6	0	19.83
		M 18900	1880	QPSK	1	0	21.03
					1	2	21.07
					1	5	21.11
					3	0	21.14
					3	1	20.85
					3	2	21.21
					6	0	20.84
				16-QAM	1	0	20.01
					1	2	20.27
					1	5	20.40
					3	0	19.78
					3	2	20.11
					3	5	19.82
					6	0	19.77
		H 19193	1909.3	QPSK	1	0	21.81
					1	2	21.94
					1	5	21.65
					3	0	21.77
					3	1	21.38
					3	2	21.53
					6	0	20.51
				16-QAM	1	0	20.34
1	2				20.23		
1	5				20.17		
3	0				19.85		
3	1				20.06		
3	2				19.90		
6	0				19.93		



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Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		EIRP (dBm)
					RB Size	RB Offset	
LTE Band 4	20MHz	L 20050	1720.0	QPSK	1	0	21.65
					1	49	21.72
					1	99	21.77
					50	0	21.62
					50	25	21.08
					50	49	21.34
					100	0	21.48
				16-QAM	1	0	20.82
					1	49	21.37
					1	99	21.02
					50	0	20.45
					50	25	20.62
					50	49	20.38
					100	0	20.01
		M 20175	1732.5	QPSK	1	0	21.84
					1	49	21.79
					1	99	21.68
					50	0	21.15
					50	25	21.08
					50	49	21.02
					100	0	21.10
				16-QAM	1	0	21.64
					1	49	21.55
					1	99	21.47
					50	0	20.52
					50	25	20.39
					50	49	20.46
					100	0	20.34
		H 20300	1745.0	QPSK	1	0	21.31
					1	49	21.73
					1	99	21.62
					50	0	21.44
					50	25	21.53
					50	49	21.67
					100	0	21.44
				16-QAM	1	0	20.37
					1	49	20.64
					1	99	20.51
					50	0	19.82
					50	25	20.06
					50	49	19.94
					100	0	20.12



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Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		EIRP (dBm)
					RB Size	RB Offset	
LTE Band 4	15MHz	L 20025	1717.5	QPSK	1	0	21.77
					1	37	21.54
					1	74	21.83
					36	0	21.23
					36	18	21.39
					36	35	21.30
					75	0	21.02
		M 20175	1732.5	16-QAM	1	0	21.25
					1	37	20.72
					1	74	20.77
					36	0	20.04
					36	18	19.86
					36	35	20.11
					75	0	20.15
		H 20325	1747.5	QPSK	1	0	21.85
					1	37	21.69
					1	74	21.81
					36	0	21.19
					36	18	21.08
					36	35	21.24
					75	0	21.17
				16-QAM	1	0	21.62
					1	37	21.41
					1	74	21.67
					36	0	20.51
					36	18	20.33
					36	35	20.44
					75	0	20.09
				QPSK	1	0	21.89
					1	37	21.72
					1	74	21.91
					36	0	20.93
					36	18	20.47
					36	35	20.86
					75	0	20.63
				16-QAM	1	0	21.02
					1	37	20.63
					1	74	20.71
					36	0	20.14
					36	18	19.97
					36	35	20.08
					75	0	20.03



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Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		EIRP (dBm)
					RB Size	RB Offset	
LTE Band 4	10MHz	L 20000	1715.0	QPSK	1	0	21.14
					1	24	21.83
					1	49	21.94
					25	0	21.27
					25	12	21.53
					25	24	21.34
					50	0	21.42
		M 20175	1732.5	16-QAM	1	0	21.13
					1	24	21.26
					1	49	20.98
					25	0	20.57
					25	12	20.46
					25	24	20.62
					50	0	20.24
		H 20350	1750.0	QPSK	1	0	21.97
					1	24	21.53
					1	49	21.37
					25	0	20.62
					25	12	20.33
					25	24	20.47
					50	0	21.32
				16-QAM	1	0	20.59
					1	24	21.18
					1	49	21.47
					25	0	20.37
					25	12	20.16
					25	24	19.92
					50	0	19.83
				QPSK	1	0	21.75
					1	24	21.63
					1	49	21.77
					25	0	20.84
					25	12	20.55
					25	24	20.72
					50	0	20.79
				16-QAM	1	0	21.09
					1	24	21.01
					1	49	20.58
					25	0	20.13
					25	12	20.22
					25	24	20.04
					50	0	19.69



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Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		EIRP (dBm)
					RB Size	RB Offset	
LTE Band 4	5MHz	L 19975	1712.5	QPSK	1	0	21.92
					1	12	21.81
					1	24	21.90
					12	0	20.88
					12	6	20.71
					12	11	20.95
					25	0	20.28
		M 20175	1732.5	16-QAM	1	0	21.06
					1	12	21.17
					1	24	20.93
					12	0	20.14
					12	6	19.99
					12	11	20.08
					25	0	20.42
		H 20375	1752.5	QPSK	1	0	21.88
					1	12	21.73
					1	24	21.92
					12	0	20.89
					12	6	21.02
					12	11	20.75
					25	0	21.33
				16-QAM	1	0	20.56
					1	12	20.82
					1	24	20.71
					12	0	19.96
					12	6	20.16
					12	11	20.05
					25	0	20.01
				QPSK	1	0	20.17
					1	12	20.43
					1	24	21.03
					12	0	20.32
					12	6	20.41
					12	11	20.50
					25	0	20.87
				16-QAM	1	0	21.08
					1	12	21.12
					1	24	21.46
					12	0	20.52
					12	6	20.44
					12	11	20.23
					25	0	19.65



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Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		EIRP (dBm)
					RB Size	RB Offset	
LTE Band 4	3MHz	L 19965	1711.5	QPSK	1	0	21.89
					1	7	21.92
					1	14	21.53
					8	0	21.08
					8	4	20.96
					8	7	21.23
					15	0	21.32
				16-QAM	1	0	21.07
					1	7	20.98
					1	14	21.11
					8	0	20.35
					8	4	20.27
					8	7	20.46
					15	0	20.08
		M 20175	1732.5	QPSK	1	0	21.96
					1	7	21.76
					1	14	21.83
					8	0	20.89
					8	4	21.08
					8	7	21.11
					15	0	21.18
				16-QAM	1	0	20.89
					1	7	20.53
					1	14	20.69
					8	0	20.14
					8	4	20.09
					8	7	20.23
					15	0	20.16
		H 20385	1753.5	QPSK	1	0	21.55
					1	7	21.73
					1	14	21.68
					8	0	20.44
					8	4	20.75
					8	7	20.37
					15	0	21.06
				16-QAM	1	0	20.51
					1	7	20.49
					1	14	20.82
					8	0	20.03
					8	4	19.85
					8	7	19.56
					15	0	19.87



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Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		EIRP (dBm)
					RB Size	RB Offset	
LTE Band 4	1.4MHz	L 19957	1710.7	QPSK	1	0	21.77
					1	2	21.99
					1	5	22.07
					3	0	21.74
					3	1	21.33
					3	2	21.16
					6	0	20.63
				16-QAM	1	0	20.82
					1	2	21.09
					1	5	21.21
					3	0	20.21
					3	1	20.38
					3	2	20.13
					6	0	20.42
		M 20175	1732.5	QPSK	1	0	21.87
					1	2	21.92
					1	5	22.09
					3	0	21.56
					3	1	21.64
					3	2	21.98
					6	0	20.28
				16-QAM	1	0	21.09
					1	2	21.34
					1	5	21.11
					3	0	20.81
					3	2	20.48
					3	5	20.30
					6	0	20.38
		H 20393	1754.3	QPSK	1	0	21.65
					1	2	21.27
					1	5	21.78
					3	0	20.86
					3	1	20.77
					3	2	21.02
					6	0	20.44
				16-QAM	1	0	20.88
					1	2	20.57
					1	5	20.68
					3	0	20.10
					3	1	20.24
					3	2	20.17
					6	0	20.03



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Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		EIRP (dBm)
					RB Size	RB Offset	
LTE Band 5	10MHz	L 20450	829	QPSK	1	0	22.34
					1	24	22.53
					1	49	22.41
					25	0	21.30
					25	12	21.41
					25	24	21.52
					50	0	21.49
				16-QAM	1	0	21.55
					1	24	21.43
					1	49	21.22
					25	0	20.85
					25	12	20.79
					25	24	20.34
					50	0	20.63
		M 20525	836.5	QPSK	1	0	22.31
					1	24	22.46
					1	49	22.37
					25	0	21.52
					25	12	21.21
					25	24	21.49
					50	0	21.44
				16-QAM	1	0	21.37
					1	24	21.44
					1	49	21.18
					25	0	20.88
					25	12	20.31
					25	24	20.58
					50	0	20.43
		H 20600	844	QPSK	1	0	22.45
					1	24	22.37
					1	49	22.49
					25	0	21.45
					25	12	21.88
					25	24	21.63
					50	0	21.52
				16-QAM	1	0	21.18
					1	24	21.26
					1	49	21.03
					25	0	20.77
					25	12	20.49
					25	24	20.11
					50	0	20.44



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Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		EIRP (dBm)
					RB Size	RB Offset	
LTE Band 5	5MHz	L 20425	826.5	QPSK	1	0	22.43
					1	12	22.51
					1	24	22.33
					12	0	21.32
					12	6	21.16
					12	11	21.52
					25	0	21.43
		M 20525	836.5	16-QAM	1	0	21.07
					1	12	21.62
					1	24	21.28
					12	0	20.86
					12	6	20.44
					12	11	20.52
					25	0	20.33
		H 20625	846.5	QPSK	1	0	22.37
					1	12	22.41
					1	24	22.19
					12	0	21.30
					12	6	21.27
					12	11	21.09
					25	0	21.37
				16-QAM	1	0	21.18
					1	12	21.36
					1	24	21.03
					12	0	20.77
					12	6	20.59
					12	11	20.42
					25	0	20.49
				QPSK	1	0	22.14
					1	12	22.06
					1	24	22.43
					12	0	21.39
					12	6	21.66
					12	11	21.45
					25	0	21.36
				16-QAM	1	0	21.17
					1	12	21.52
					1	24	21.35
					12	0	20.31
					12	6	20.44
					12	11	20.69
					25	0	20.41



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Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		EIRP (dBm)
					RB Size	RB Offset	
LTE Band 5	3MHz	L 20415	825.5	QPSK	1	0	22.14
					1	7	22.31
					1	14	22.43
					8	0	21.12
					8	4	20.89
					8	7	21.03
					15	0	21.16
				16-QAM	1	0	21.28
					1	7	21.19
					1	14	21.55
					8	0	20.94
					8	4	20.82
					8	7	20.58
					15	0	20.43
		M 20525	836.5	QPSK	1	0	22.38
					1	7	22.41
					1	14	22.19
					8	0	21.33
					8	4	21.26
					8	7	21.19
					15	0	21.53
				16-QAM	1	0	20.37
					1	7	21.07
					1	14	21.43
					8	0	20.55
					8	4	20.72
					8	7	20.34
					15	0	20.51
		H 20635	847.5	QPSK	1	0	22.22
					1	7	22.18
					1	14	22.13
					8	0	21.46
					8	4	21.82
					8	7	21.22
					15	0	21.45
				16-QAM	1	0	21.29
					1	7	21.06
					1	14	21.27
					8	0	20.46
					8	4	20.39
					8	7	20.11
					15	0	20.13



REPORT No.: SZ15040195W02

Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		EIRP (dBm)
					RB Size	RB Offset	
LTE Band 5	1.4MHz	L 20407	824.7	QPSK	1	0	22.37
					1	2	22.18
					1	5	22.23
					3	0	22.33
					3	1	21.56
					3	2	21.77
					6	0	21.38
				16-QAM	1	0	21.49
					1	2	21.64
					1	5	20.76
					3	0	20.84
					3	1	21.08
					3	2	20.85
					6	0	20.46
		M 20525	836.5	QPSK	1	0	22.17
					1	2	22.43
					1	5	22.26
					3	0	21.83
					3	1	22.09
					3	2	22.35
					6	0	21.29
				16-QAM	1	0	21.53
					1	2	21.88
					1	5	21.44
					3	0	20.79
					3	2	20.55
					3	5	20.64
					6	0	20.34
		H 20643	848.3	QPSK	1	0	22.63
					1	2	22.27
					1	5	22.46
					3	0	22.19
					3	1	21.63
					3	2	21.29
					6	0	21.37
				16-QAM	1	0	21.26
					1	2	21.44
					1	5	21.33
					3	0	20.51
					3	1	20.30
					3	2	20.69
					6	0	20.55



REPORT No.: SZ15040195W02

Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		EIRP (dBm)
					RB Size	RB Offset	
LTE Band 7	20MHz	L 20850	2510	QPSK	1	0	20.96
					1	49	20.84
					1	99	20.57
					50	0	20.07
					50	25	20.13
					50	49	20.02
					100	0	19.94
				16-QAM	1	0	20.37
					1	49	20.26
					1	99	20.14
					50	0	19.92
					50	25	20.03
					50	49	19.84
					100	0	19.71
		M 21100	2535	QPSK	1	0	21.49
					1	49	21.11
					1	99	21.02
					50	0	20.15
					50	25	19.77
					50	49	19.81
					100	0	19.83
				16-QAM	1	0	20.01
					1	49	20.37
					1	99	20.13
					50	0	19.82
					50	25	19.72
					50	49	19.91
					100	0	19.53
		H 21350	2560	QPSK	1	0	21.14
					1	49	20.52
					1	99	20.63
					50	0	20.48
					50	25	20.16
					50	49	19.83
					100	0	20.01
				16-QAM	1	0	20.75
					1	49	20.37
					1	99	20.61
					50	0	19.86
					50	25	20.04
					50	49	19.78
					100	0	19.13



REPORT No.: SZ15040195W02

Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		EIRP (dBm)
					RB Size	RB Offset	
LTE Band 7	15MHz	L 20825	2507.5	QPSK	1	0	21.46
					1	37	21.33
					1	74	21.13
					36	0	20.15
					36	18	20.49
					36	35	20.73
					75	0	20.68
		M 21100	2535	16-QAM	1	0	20.33
					1	37	20.58
					1	74	19.93
					36	0	20.04
					36	18	19.86
					36	35	19.92
					75	0	19.42
				QPSK	1	0	21.48
					1	37	20.96
					1	74	21.13
					36	0	20.01
					36	18	20.08
					36	35	19.85
					75	0	19.67
		H 21375	2562.5	16-QAM	1	0	19.42
					1	37	20.05
					1	74	19.33
					36	0	19.24
					36	18	19.16
					36	35	19.53
					75	0	19.34
				QPSK	1	0	21.43
					1	37	21.01
					1	74	20.91
					36	0	20.03
					36	18	20.16
					36	35	19.85
					75	0	19.93
				16-QAM	1	0	20.14
					1	37	20.28
					1	74	20.07
					36	0	19.73
					36	18	20.05
					36	35	19.85
					75	0	19.21



REPORT No.: SZ15040195W02

Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		EIRP (dBm)
					RB Size	RB Offset	
LTE Band 7	10MHz	L 20800	2505	QPSK	1	0	21.41
					1	24	21.39
					1	49	21.33
					25	0	20.75
					25	12	20.34
					25	24	20.03
					50	0	20.07
				16-QAM	1	0	20.85
					1	24	20.49
					1	49	20.53
					25	0	19.86
					25	12	20.03
					25	24	19.76
					50	0	19.73
		M 21100	2535	QPSK	1	0	21.09
					1	24	20.78
					1	49	20.83
					25	0	19.85
					25	12	19.73
					25	24	19.58
					50	0	19.34
				16-QAM	1	0	19.89
					1	24	20.05
					1	49	19.48
					25	0	19.86
					25	12	19.28
					25	24	19.53
					50	0	19.37
		H 21400	2565	QPSK	1	0	21.01
					1	24	20.81
					1	49	20.95
					25	0	19.37
					25	12	20.05
					25	24	19.56
					50	0	19.71
				16-QAM	1	0	19.69
					1	24	19.88
					1	49	19.45
					25	0	19.24
					25	12	19.53
					25	24	19.72
					50	0	19.10



REPORT No.: SZ15040195W02

Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		EIRP (dBm)
					RB Size	RB Offset	
LTE Band 7	5MHz	L 20775	2502.5	QPSK	1	0	21.34
					1	12	21.45
					1	24	21.27
					12	0	20.85
					12	6	20.76
					12	11	20.91
					25	0	19.83
		M 21100	2535	16-QAM	1	0	20.18
					1	12	20.05
					1	24	19.76
					12	0	19.48
					12	6	19.53
					12	11	19.66
					25	0	19.52
		H 21425	2567.5	QPSK	1	0	20.87
					1	12	20.78
					1	24	20.69
					12	0	20.41
					12	6	20.33
					12	11	20.59
					25	0	20.53
				16-QAM	1	0	20.48
					1	12	20.82
					1	24	19.33
					12	0	19.58
					12	6	19.44
					12	11	19.38
					25	0	19.21
				QPSK	1	0	20.86
					1	12	20.85
					1	24	20.73
					12	0	19.74
					12	6	19.59
					12	11	19.69
					25	0	19.83
				16-QAM	1	0	20.09
					1	12	20.18
					1	24	19.45
					12	0	19.82
					12	6	19.55
					12	11	19.89
					25	0	19.13



2.8 Radiated Spurious Emissions

2.8.1 Requirement

According to FCC section 2.1053 and section 27.53(g), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43+10*\log(P)$ dB. This calculated to be -13dBm.

2.8.2 Test Description

See section 2.7.2 of this report.

Note: when doing measurements above 1GHz, the EUT has been within the 3dB cone width of the horn antenna during horizontal antenna.

2.8.3 Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

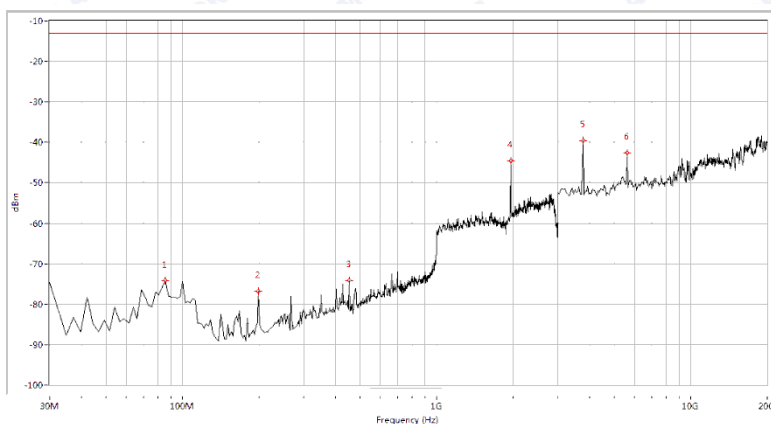
Test Plots for the Whole Measurement Frequency Range:

Note1: the power of the EUT transmitting frequency should be ignored.

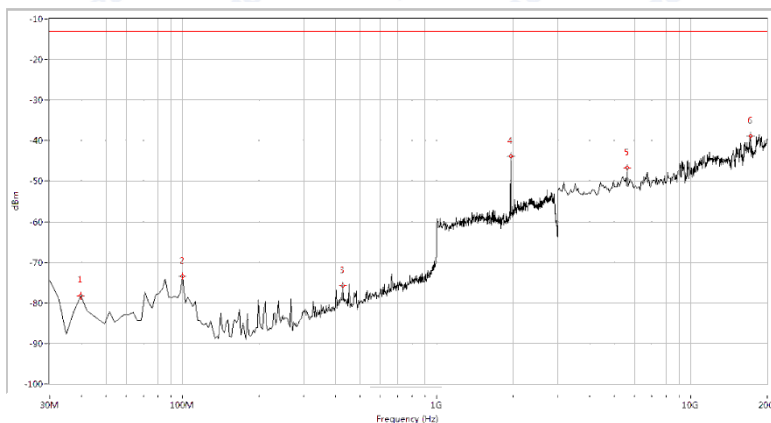
Note2: All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.



LTE Band 2 1.4MHz BW, Mid Channel, QPSK



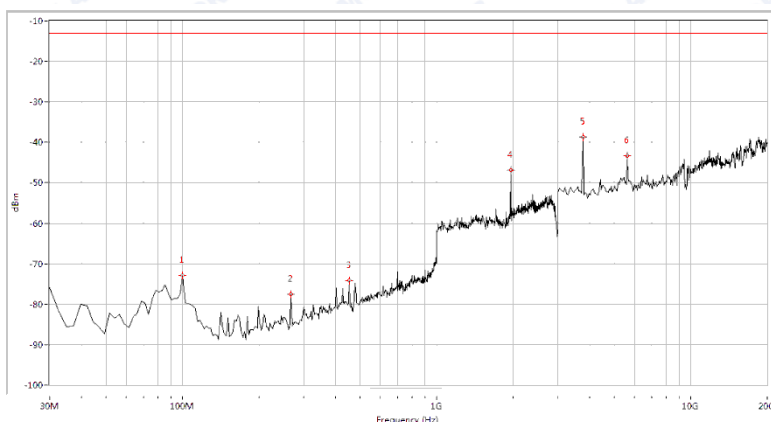
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
85.636	-74.23	-13.0	61.2	-3.0	Horizontal	PASS
199.327	-76.86	-13.0	63.9	252.4	Horizontal	PASS
453.317	-74.23	-13.0	61.2	274.3	Horizontal	PASS
1957.606	-44.56	-13.0	31.6	309.7	Horizontal	N.A
3763.092	-39.67	-13.0	26.7	42.5	Horizontal	PASS
5628.429	-42.70	-13.0	29.7	23.2	Horizontal	PASS



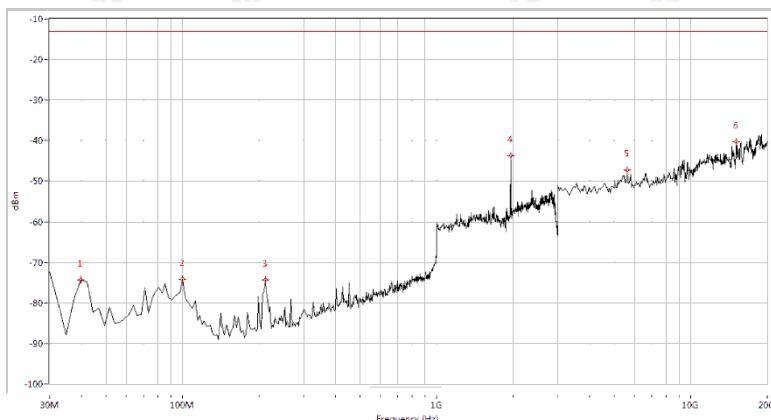
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
39.676	-78.20	-13.0	65.2	244.7	Vertical	PASS
100.150	-73.45	-13.0	60.4	288.5	Vertical	PASS
426.708	-75.72	-13.0	62.7	259.9	Vertical	PASS
1957.606	-43.86	-13.0	30.9	249.5	Vertical	N.A
5628.429	-46.73	-13.0	33.7	36.5	Vertical	PASS
17159.601	-38.95	-13.0	26.0	198.6	Vertical	PASS



LTE Band 2 1.4MHz BW, Mid Channel, 16QAM



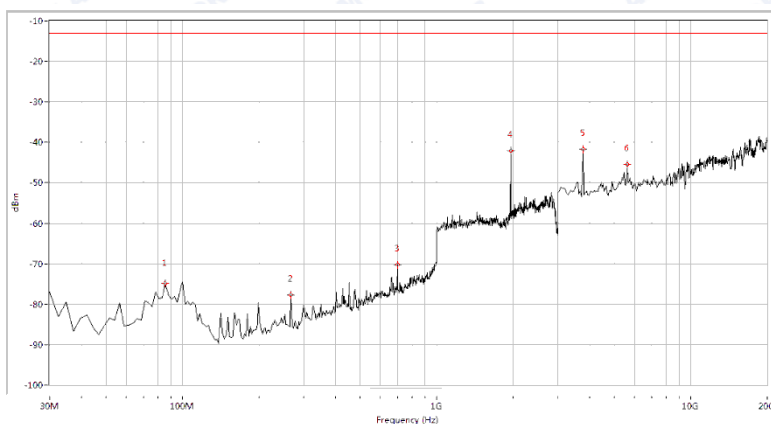
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
100.150	-72.95	-13.0	59.9	357.0	Horizontal	PASS
267.057	-77.56	-13.0	64.6	335.1	Horizontal	PASS
453.317	-74.22	-13.0	61.2	265.6	Horizontal	PASS
1957.606	-46.93	-13.0	33.9	301.4	Horizontal	N.A
3763.092	-38.65	-13.0	25.6	242.9	Horizontal	PASS
5628.429	-43.39	-13.0	30.4	357.0	Horizontal	PASS



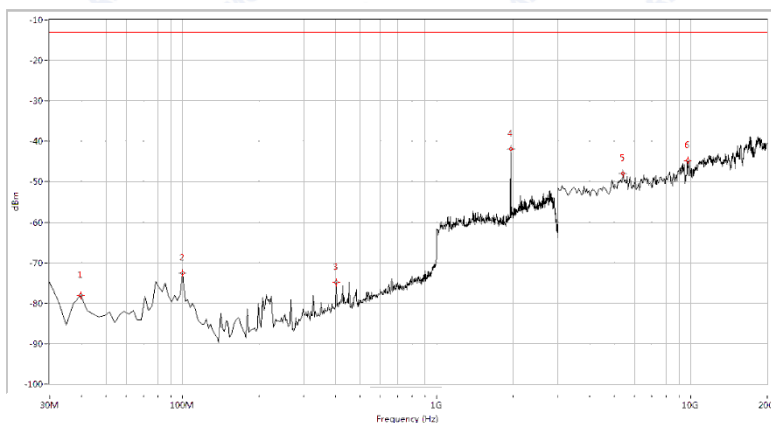
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
39.676	-74.36	-13.0	61.4	351.3	Vertical	PASS
100.150	-74.23	-13.0	61.2	2.9	Vertical	PASS
211.421	-74.26	-13.0	61.3	253.2	Vertical	PASS
1957.606	-43.71	-13.0	30.7	269.6	Vertical	N.A
5628.429	-47.31	-13.0	34.3	150.5	Vertical	PASS
15124.688	-40.37	-13.0	27.4	187.3	Vertical	PASS



LTE Band 2 3MHz BW, Mid Channel, QPSK



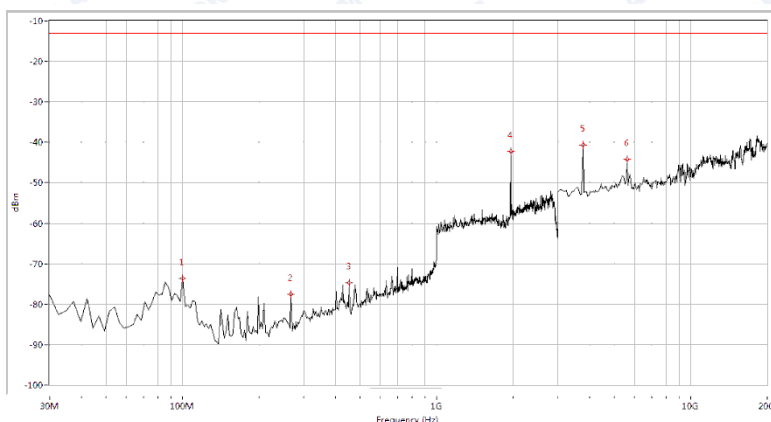
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
85.636	-74.95	-13.0	61.9	308.4	Horizontal	PASS
267.057	-77.68	-13.0	64.7	267.9	Horizontal	PASS
700.050	-70.25	-13.0	57.3	326.8	Horizontal	PASS
1957.606	-42.15	-13.0	29.1	289.7	Horizontal	N.A
3763.092	-41.64	-13.0	28.6	129.1	Horizontal	PASS
5628.429	-45.39	-13.0	32.4	196.0	Horizontal	PASS



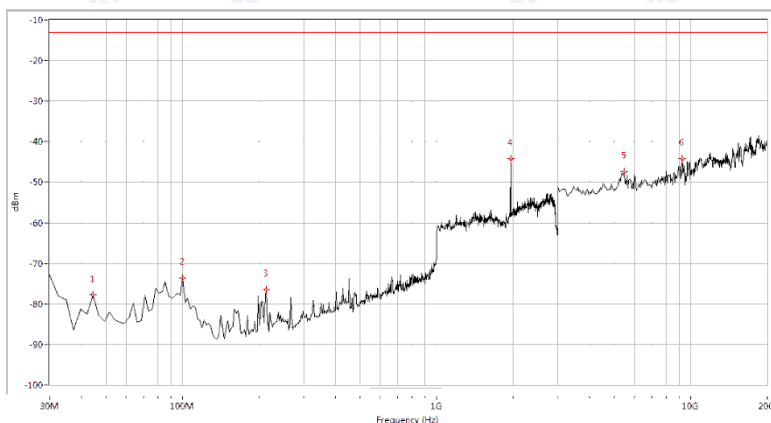
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
39.676	-78.02	-13.0	65.0	354.3	Vertical	PASS
100.150	-72.55	-13.0	59.6	29.1	Vertical	PASS
402.519	-74.86	-13.0	61.9	251.1	Vertical	PASS
1957.606	-41.98	-13.0	29.0	293.3	Vertical	N.A
5416.459	-48.02	-13.0	35.0	256.6	Vertical	PASS
9740.648	-44.70	-13.0	31.7	164.0	Vertical	PASS



LTE Band 2 3MHz BW, Mid Channel, 16QAM



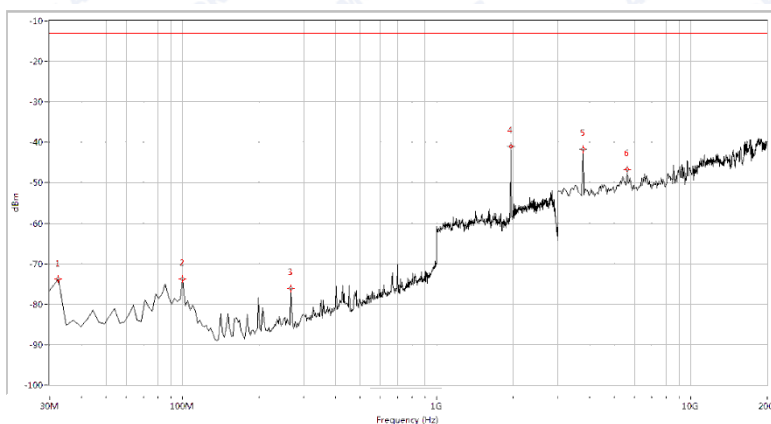
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
100.150	-73.66	-13.0	60.7	142.3	Horizontal	PASS
267.057	-77.61	-13.0	64.6	294.4	Horizontal	PASS
453.317	-74.75	-13.0	61.7	274.4	Horizontal	PASS
1957.606	-42.28	-13.0	29.3	305.3	Horizontal	N.A
3763.092	-40.71	-13.0	27.7	296.7	Horizontal	PASS
5628.429	-44.25	-13.0	31.3	79.9	Horizontal	PASS



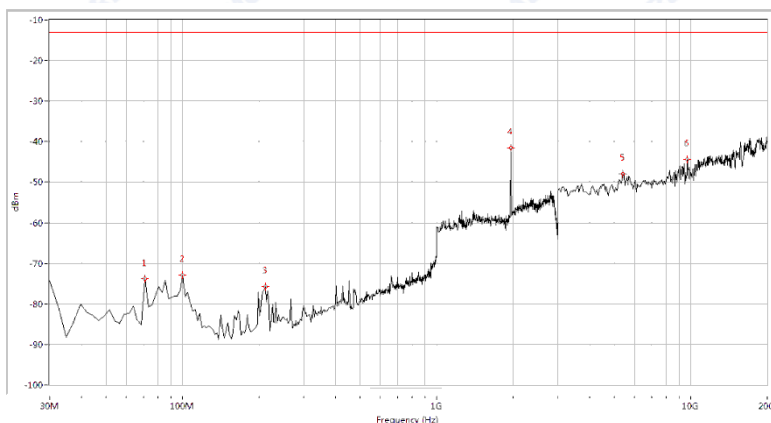
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
44.514	-77.73	-13.0	64.7	-0.0	Vertical	PASS
100.150	-73.68	-13.0	60.7	87.7	Vertical	PASS
213.840	-76.56	-13.0	63.6	263.2	Vertical	PASS
1957.606	-44.24	-13.0	31.2	282.6	Vertical	N.A
5458.853	-47.51	-13.0	34.5	205.9	Vertical	PASS
9231.920	-44.23	-13.0	31.2	45.5	Vertical	PASS



LTE Band 2 5MHz BW, Mid Channel, QPSK



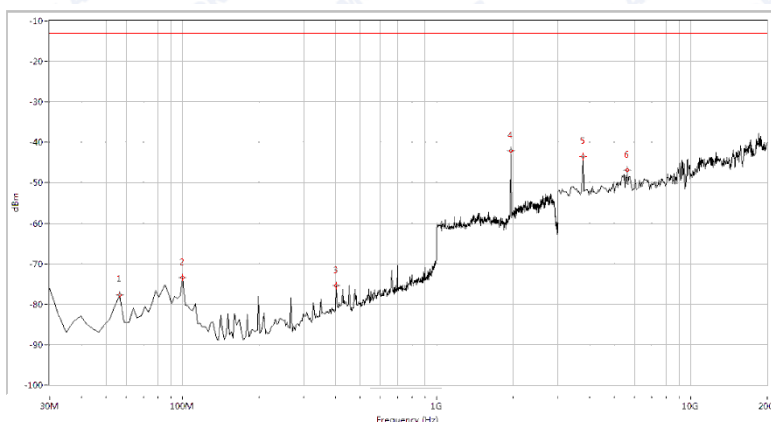
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
32.419	-73.79	-13.0	60.8	318.1	Horizontal	PASS
100.150	-73.83	-13.0	60.8	312.1	Horizontal	PASS
267.057	-76.19	-13.0	63.2	265.3	Horizontal	PASS
1957.606	-41.09	-13.0	28.1	306.4	Horizontal	N.A
3763.092	-41.69	-13.0	28.7	299.1	Horizontal	PASS
5628.429	-46.65	-13.0	33.6	222.8	Horizontal	PASS



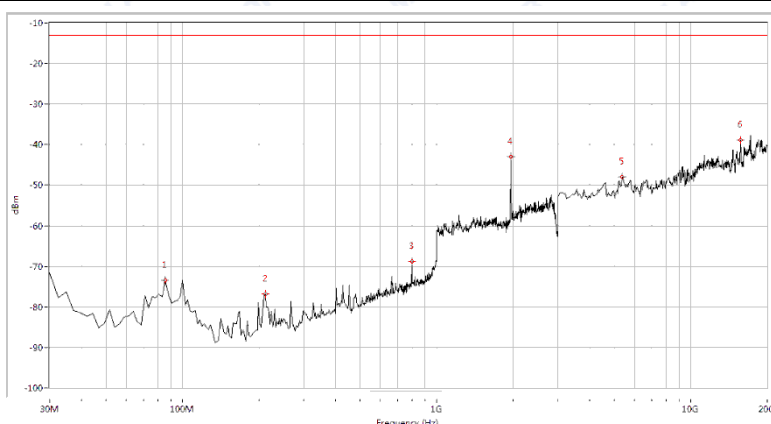
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
71.122	-73.72	-13.0	60.7	-3.0	Vertical	PASS
100.150	-72.87	-13.0	59.9	260.6	Vertical	PASS
211.421	-75.84	-13.0	62.8	34.0	Vertical	PASS
1957.606	-41.57	-13.0	28.6	269.2	Vertical	N.A
5416.459	-48.05	-13.0	35.0	0.0	Vertical	PASS
9698.254	-44.34	-13.0	31.3	1.5	Vertical	PASS



LTE Band 2 5MHz BW, Mid Channel, 16QAM



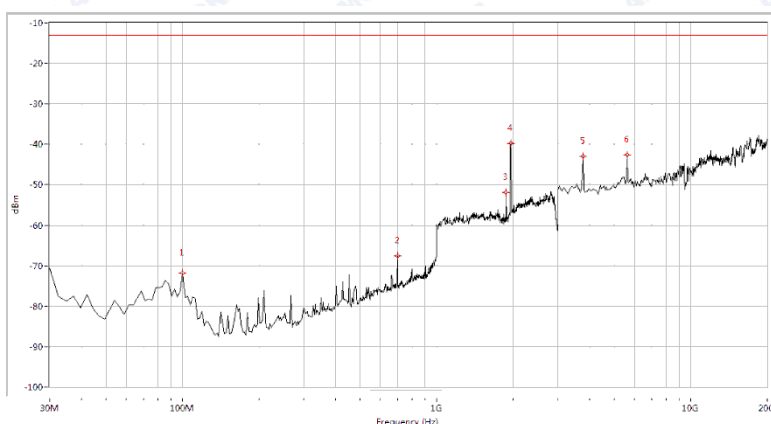
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
56.608	-77.66	-13.0	64.7	298.5	Horizontal	PASS
100.150	-73.38	-13.0	60.4	93.2	Horizontal	PASS
402.519	-75.42	-13.0	62.4	266.9	Horizontal	PASS
1957.606	-42.15	-13.0	29.2	308.3	Horizontal	N.A
3763.092	-43.54	-13.0	30.5	272.5	Horizontal	PASS
5628.429	-46.91	-13.0	33.9	142.6	Horizontal	PASS



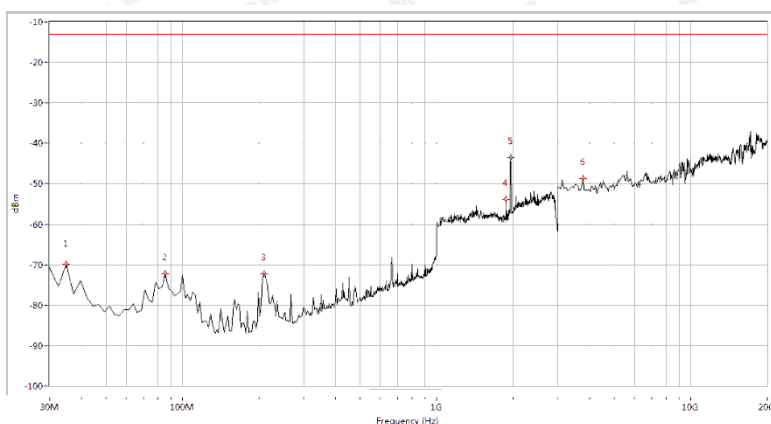
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
85.636	-73.39	-13.0	60.4	160.7	Vertical	PASS
211.421	-76.89	-13.0	63.9	218.3	Vertical	PASS
799.227	-68.78	-13.0	55.8	277.2	Vertical	PASS
1957.606	-43.03	-13.0	30.0	264.6	Vertical	N.A
5374.065	-48.03	-13.0	35.0	342.5	Vertical	PASS
15718.204	-38.86	-13.0	25.9	104.2	Vertical	PASS



LTE Band 2 10MHz BW, Mid Channel, QPSK



Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
100.150	-71.76	-13.0	58.8	360.0	Horizontal	PASS
700.050	-67.57	-13.0	54.6	74.5	Horizontal	PASS
1872.818	-51.94	-13.0	38.9	297.2	Horizontal	N.A
1957.606	-39.85	-13.0	26.9	127.3	Horizontal	N.A
3763.092	-42.97	-13.0	30.0	268.1	Horizontal	PASS
5628.429	-42.59	-13.0	29.6	-0.0	Horizontal	PASS



Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-69.96	-13.0	57.0	256.1	Vertical	PASS
85.636	-72.20	-13.0	59.2	271.0	Vertical	PASS
209.002	-72.25	-13.0	59.2	54.4	Vertical	PASS
1872.818	-53.87	-13.0	40.9	205.5	Vertical	N.A
1957.606	-43.58	-13.0	30.6	222.2	Vertical	N.A
3763.092	-48.59	-13.0	35.6	-0.0	Vertical	PASS