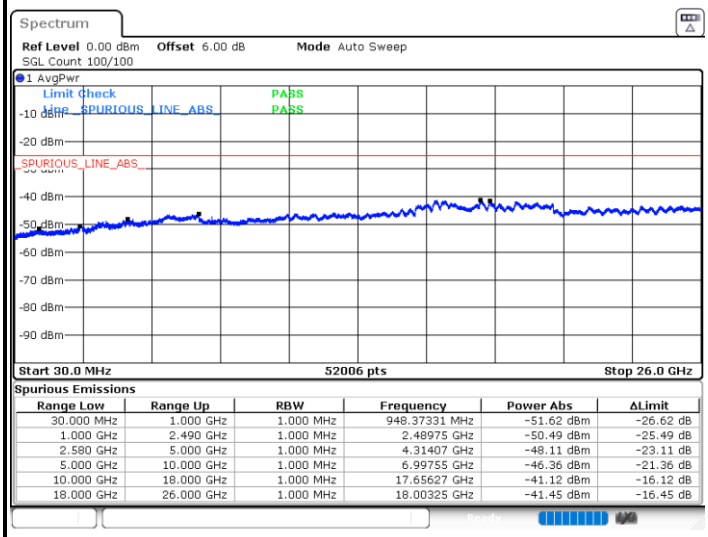
LTE Band 7 / 20MHz

Lowest Channel / QPSK

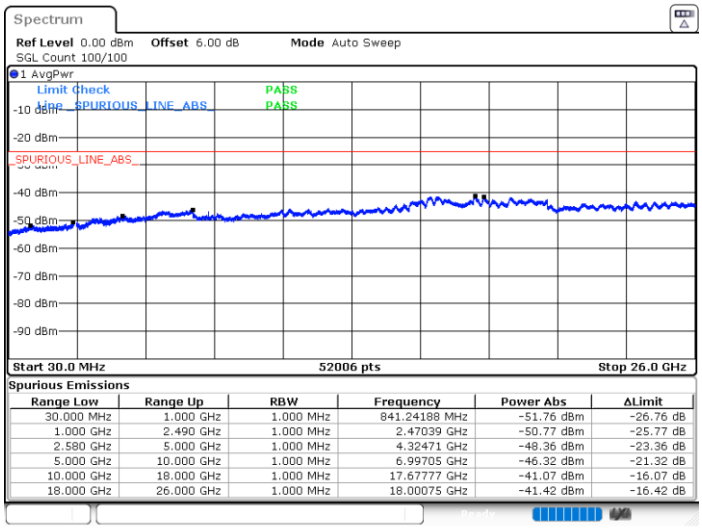


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	948.37331 MHz	-51.62 dBm	-26.62 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.48975 GHz	-50.49 dBm	-25.49 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.31407 GHz	-48.11 dBm	-23.11 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.99755 GHz	-46.36 dBm	-21.36 dB
10.000 GHz	18.000 GHz	1.000 MHz	17.65627 GHz	-41.12 dBm	-16.12 dB
18.000 GHz	26.000 GHz	1.000 MHz	18.00325 GHz	-41.45 dBm	-16.45 dB

Date: 13.JUN.2022 11:18:35

Middle Channel / QPSK

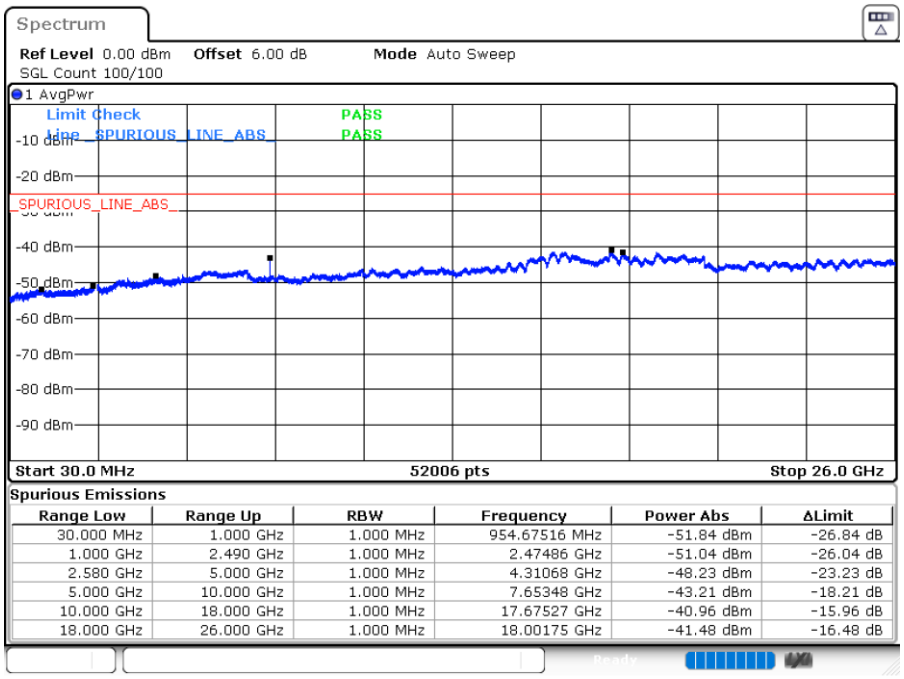


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	841.24188 MHz	-51.76 dBm	-26.76 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.47039 GHz	-50.77 dBm	-25.77 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.32471 GHz	-48.36 dBm	-23.36 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.99705 GHz	-46.32 dBm	-21.32 dB
10.000 GHz	18.000 GHz	1.000 MHz	17.67777 GHz	-41.07 dBm	-16.07 dB
18.000 GHz	26.000 GHz	1.000 MHz	18.00075 GHz	-41.42 dBm	-16.42 dB

Date: 13.JUN.2022 11:28:00

Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	954.67516 MHz	-51.84 dBm	-26.84 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.47486 GHz	-51.04 dBm	-26.04 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.31068 GHz	-48.23 dBm	-23.23 dB
5.000 GHz	10.000 GHz	1.000 MHz	7.65348 GHz	-43.21 dBm	-18.21 dB
10.000 GHz	18.000 GHz	1.000 MHz	17.67527 GHz	-40.96 dBm	-15.96 dB
18.000 GHz	26.000 GHz	1.000 MHz	18.00175 GHz	-41.48 dBm	-16.48 dB

Date: 13.JUN.2022 11:29:19

Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0032	PASS
40	Normal Voltage	0.0036	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0027	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0022	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0023	
20	Normal Voltage	0.0027	
20	Battery End Point	0.0011	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.55 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

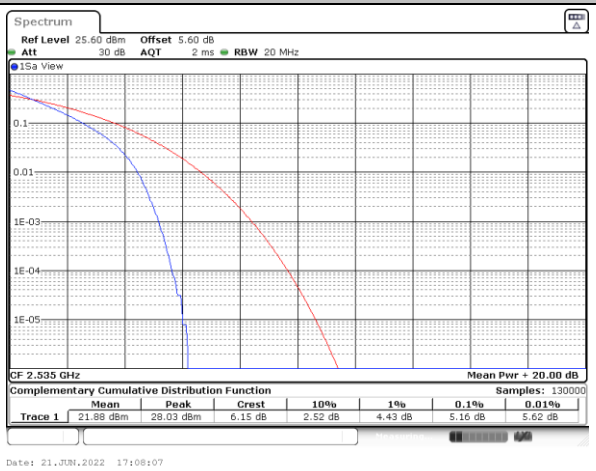
LTE Band 7(PA2)

Peak-to-Average Ratio

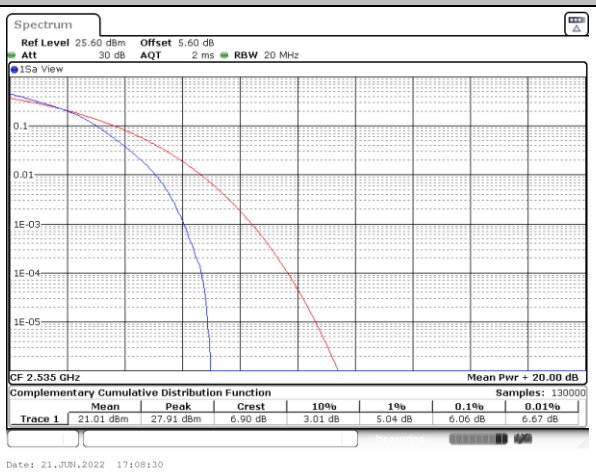
Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.16	6.06	6.7	PASS

LTE Band 7 / 20MHz

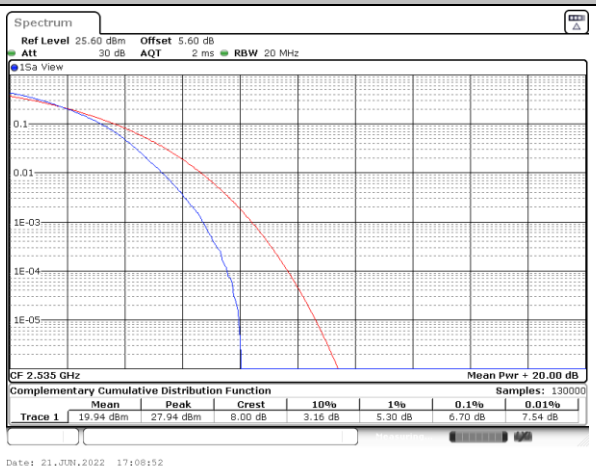
Middle Channel / Full RB/ QPSK



Middle Channel / Full RB/ 16QAM



Middle Channel / Full RB/ 64QAM

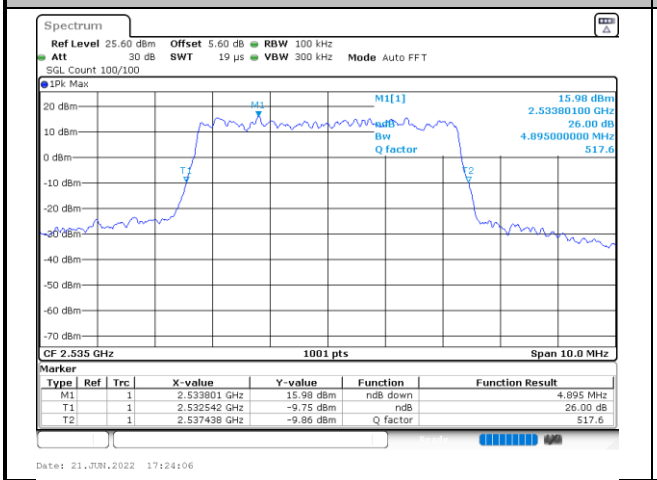


26dB Bandwidth

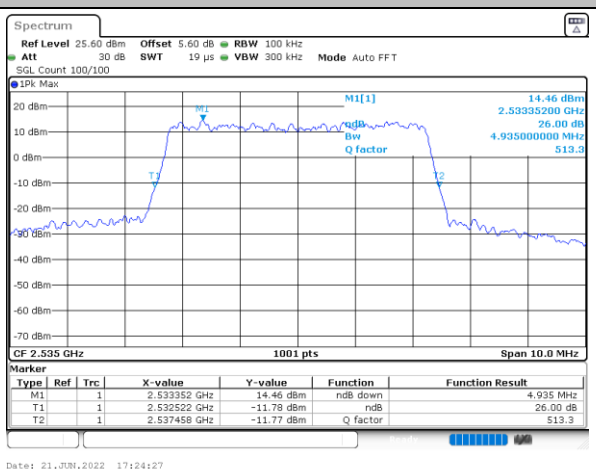
Mode	LTE Band 7 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.90	4.94	9.77	9.81	14.36	14.36	18.90	19.10

LTE Band 7

Middle Channel / 5MHz / QPSK

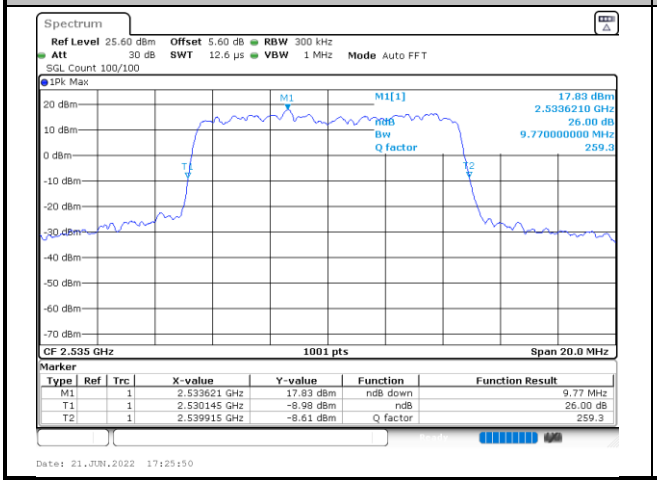


Middle Channel / 5MHz / 16QAM

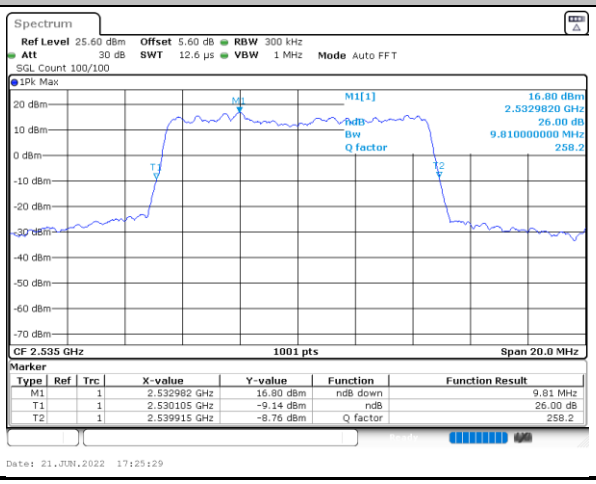


LTE Band 7

Middle Channel / 10MHz / QPSK

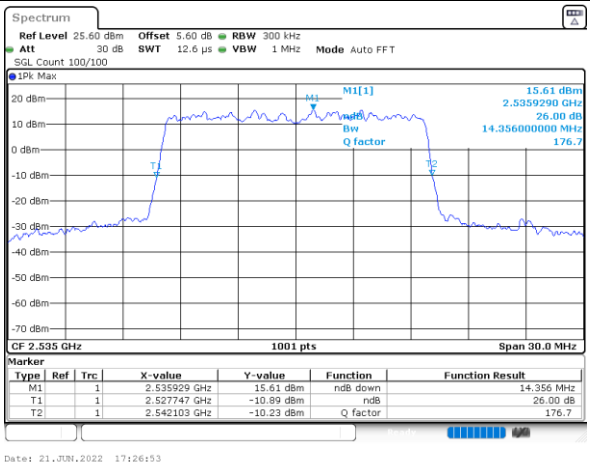


Middle Channel / 10MHz / 16QAM

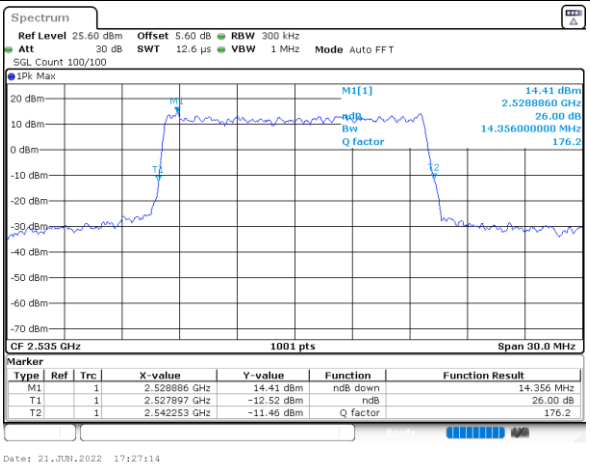


LTE Band 7

Middle Channel / 15MHz / QPSK

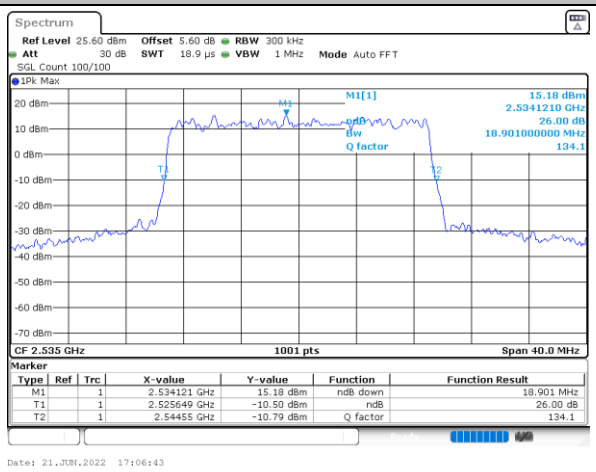


Middle Channel / 15MHz / 16QAM

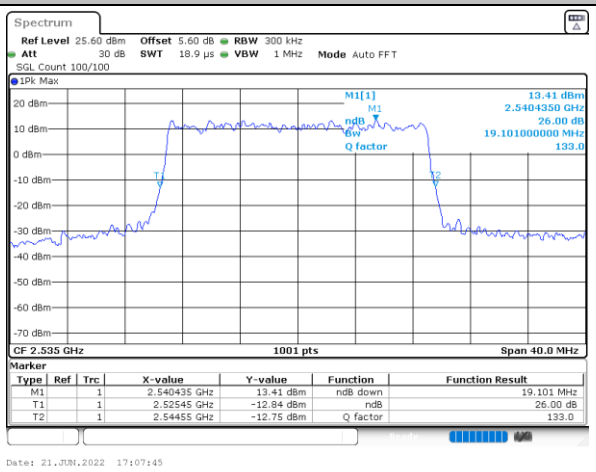


LTE Band 7

Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

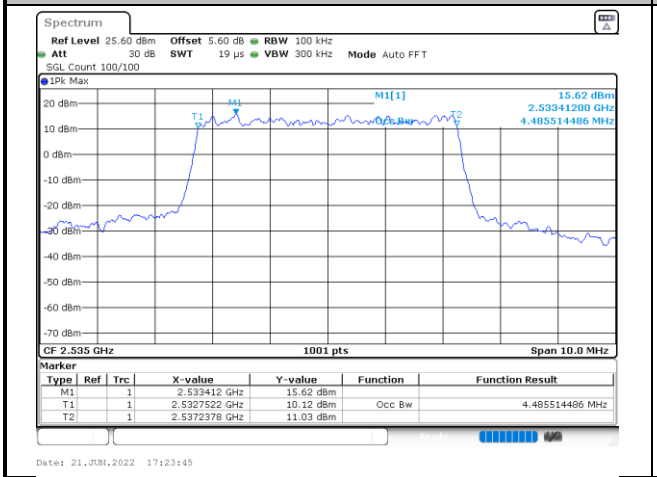


Occupied Bandwidth

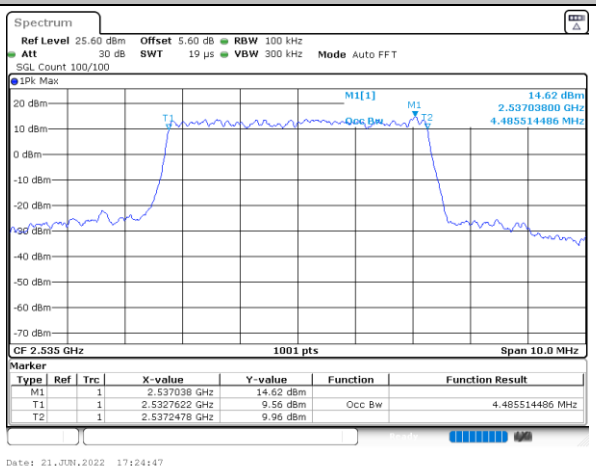
Mode	LTE Band 7 : 99%OBW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.49	4.49	9.05	9.03	13.43	13.49	17.94	17.94

LTE Band 7

Middle Channel / 5MHz / QPSK

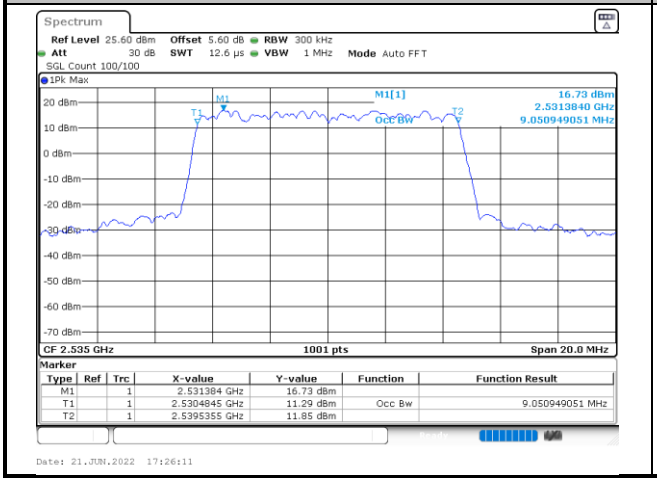


Middle Channel / 5MHz / 16QAM

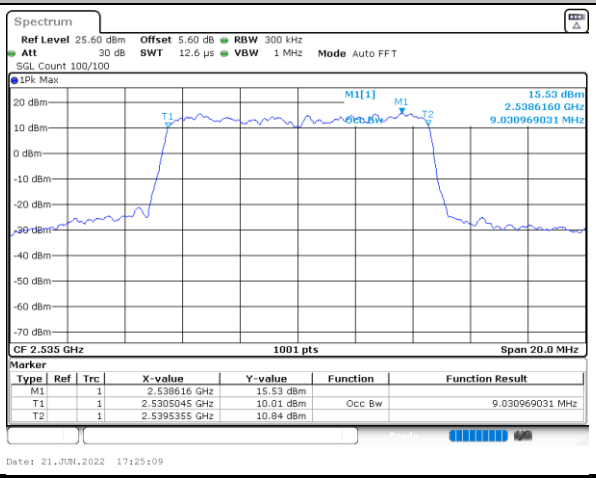


LTE Band 7

Middle Channel / 10MHz / QPSK

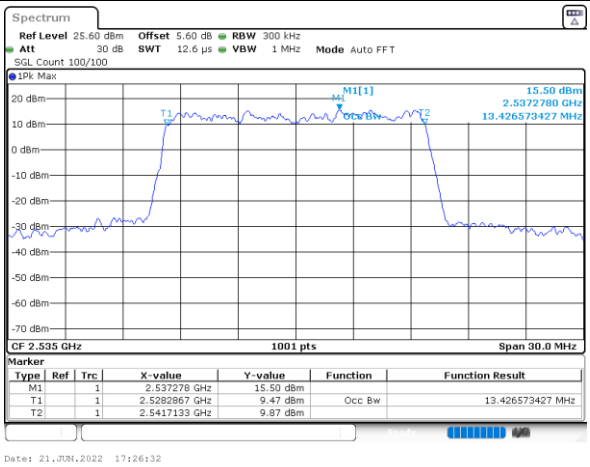


Middle Channel / 10MHz / 16QAM

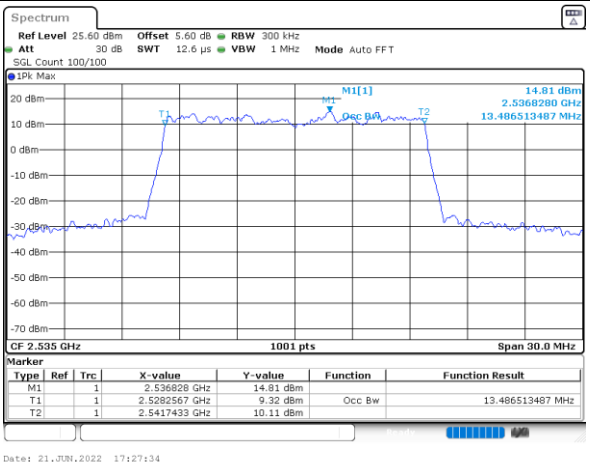


LTE Band 7

Middle Channel / 15MHz / QPSK

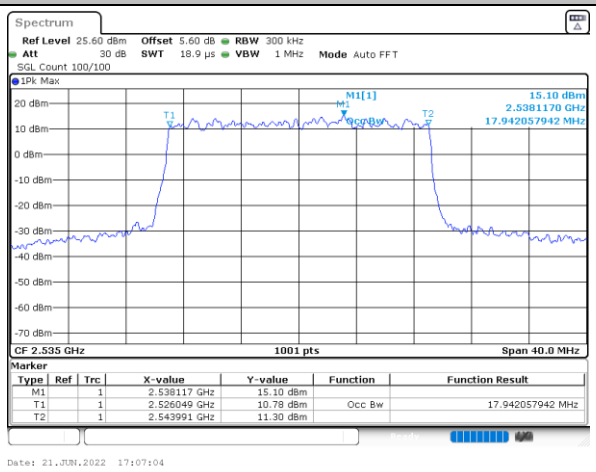


Middle Channel / 15MHz / 16QAM

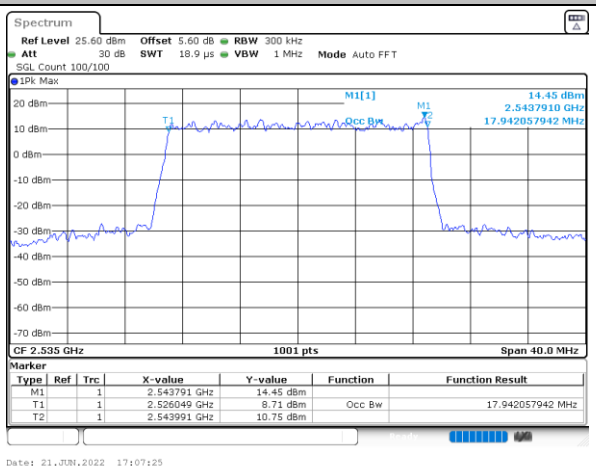


LTE Band 7

Middle Channel / 20MHz / QPSK



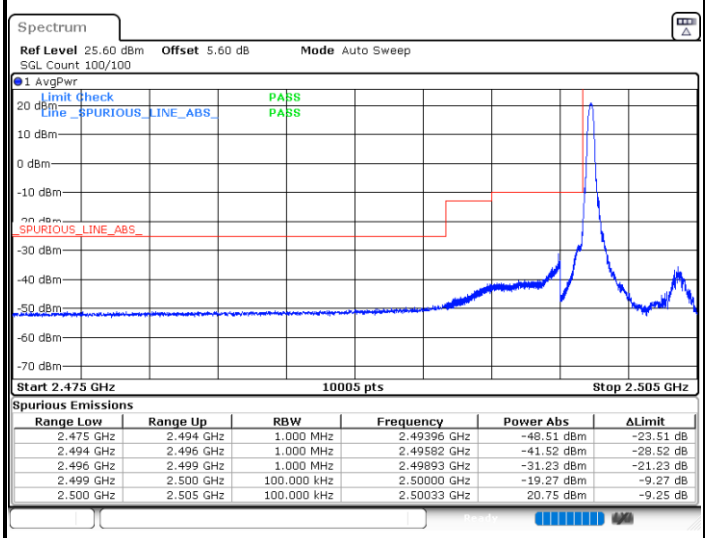
Middle Channel / 20MHz / 16QAM



Conducted Band Edge

LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB

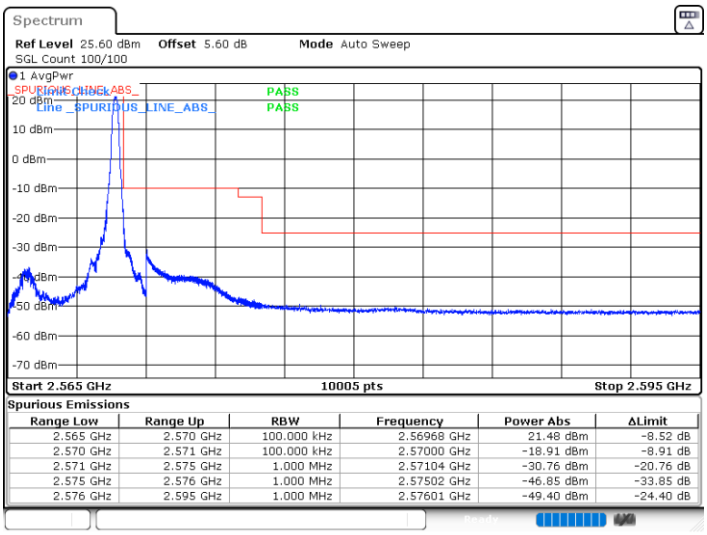


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49396 GHz	-48.51 dBm	-23.51 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49582 GHz	-41.52 dBm	-28.52 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49893 GHz	-31.23 dBm	-21.23 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.50000 GHz	-19.27 dBm	-9.27 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50033 GHz	20.75 dBm	-9.25 dB

Date: 21.JUN.2022 15:45:17

Highest Band Edge / 1 RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56968 GHz	21.48 dBm	-8.52 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57000 GHz	-18.91 dBm	-8.91 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57104 GHz	-30.76 dBm	-20.76 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57502 GHz	-46.85 dBm	-33.85 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57601 GHz	-49.40 dBm	-24.40 dB

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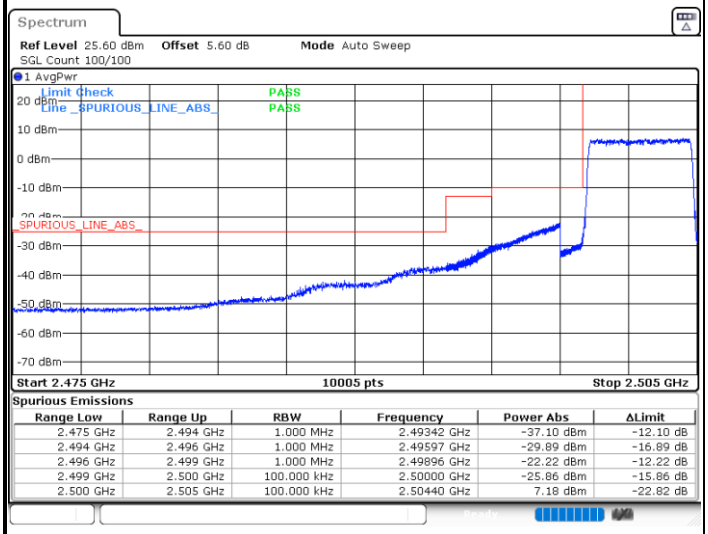
Lowest Band Edge / Full RB

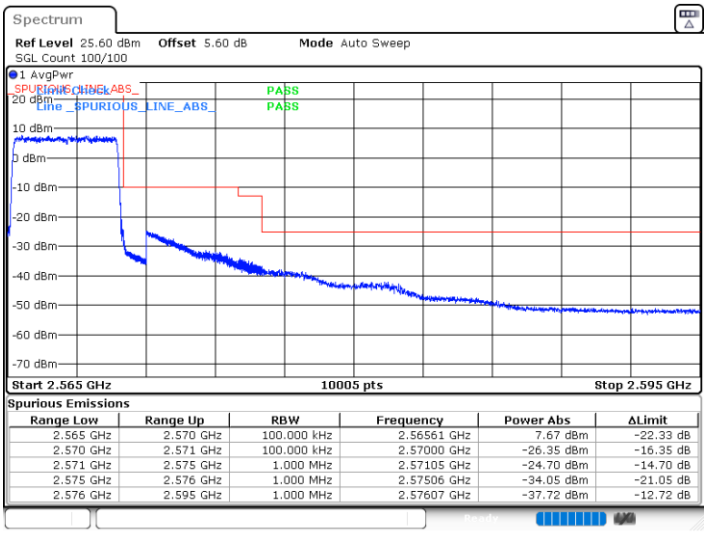


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49342 GHz	-37.10 dBm	-12.10 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49597 GHz	-29.89 dBm	-16.89 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49896 GHz	-22.22 dBm	-12.22 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.50000 GHz	-25.86 dBm	-15.86 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50440 GHz	7.18 dBm	-22.82 dB

Date: 21.JUN.2022 15:51:59

Highest Band Edge / Full RB



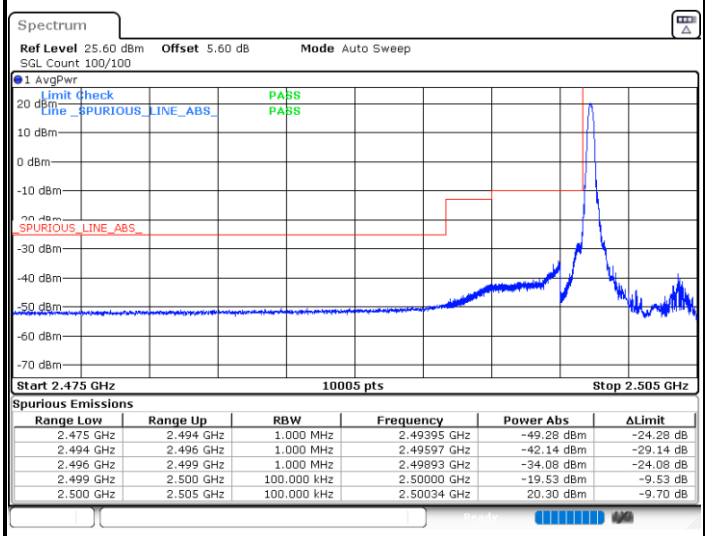
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56561 GHz	7.67 dBm	-22.33 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57000 GHz	-26.35 dBm	-16.35 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57105 GHz	-24.70 dBm	-14.70 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57506 GHz	-34.05 dBm	-21.05 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57607 GHz	-37.72 dBm	-12.72 dB

Date: 21.JUN.2022 16:03:18

LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB

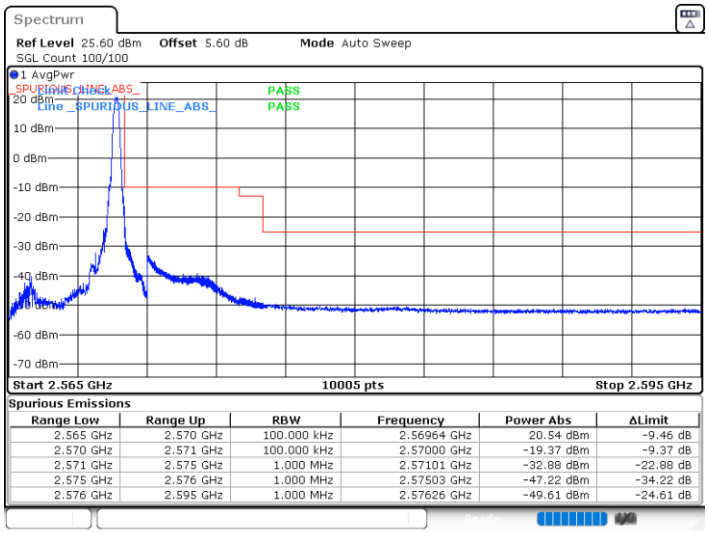


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49395 GHz	-49.28 dBm	-24.28 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49597 GHz	-42.14 dBm	-29.14 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49893 GHz	-34.08 dBm	-24.08 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.50000 GHz	-19.53 dBm	-9.53 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50034 GHz	20.30 dBm	-9.70 dB

Date: 21.JUN.2022 15:46:37

Highest Band Edge / 1 RB

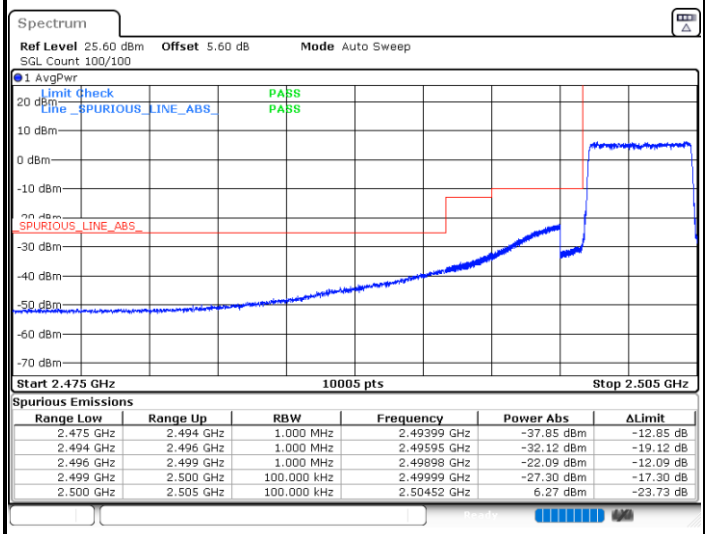


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56964 GHz	20.54 dBm	-9.46 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57000 GHz	-19.37 dBm	-9.37 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57101 GHz	-32.88 dBm	-22.88 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57503 GHz	-47.22 dBm	-34.22 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57626 GHz	-49.61 dBm	-24.61 dB

Date: 21.JUN.2022 15:57:57

Lowest Band Edge / Full RB

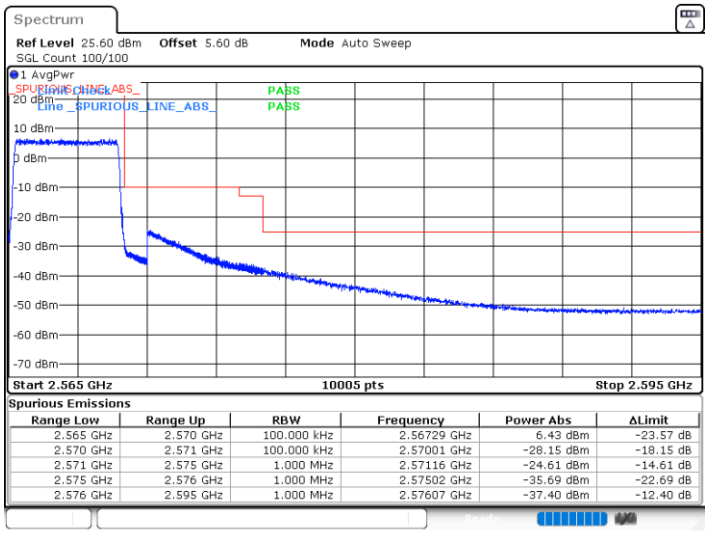


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49399 GHz	-37.85 dBm	-12.85 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49595 GHz	-32.12 dBm	-19.12 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49898 GHz	-22.09 dBm	-12.09 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.49999 GHz	-27.30 dBm	-17.30 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50452 GHz	6.27 dBm	-23.73 dB

Date: 21.JUN.2022 15:50:39

Highest Band Edge / Full RB



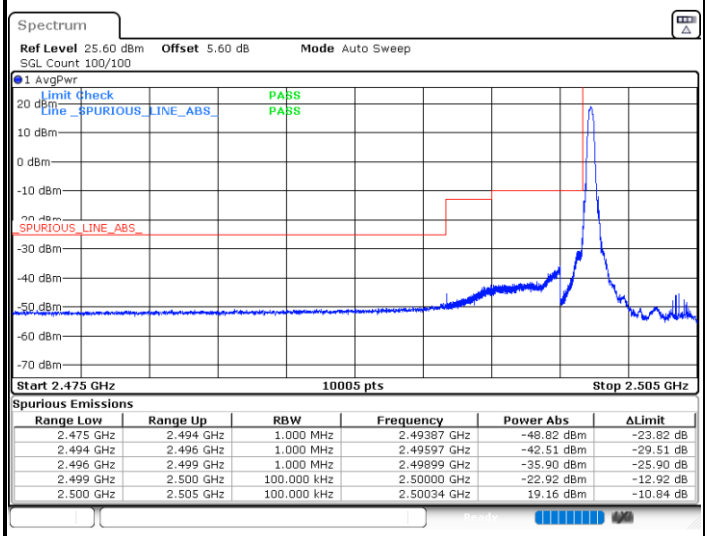
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56729 GHz	6.43 dBm	-23.57 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57001 GHz	-28.15 dBm	-18.15 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57116 GHz	-24.61 dBm	-14.61 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57502 GHz	-35.69 dBm	-22.69 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57607 GHz	-37.40 dBm	-12.40 dB

Date: 21.JUN.2022 16:01:58

LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB

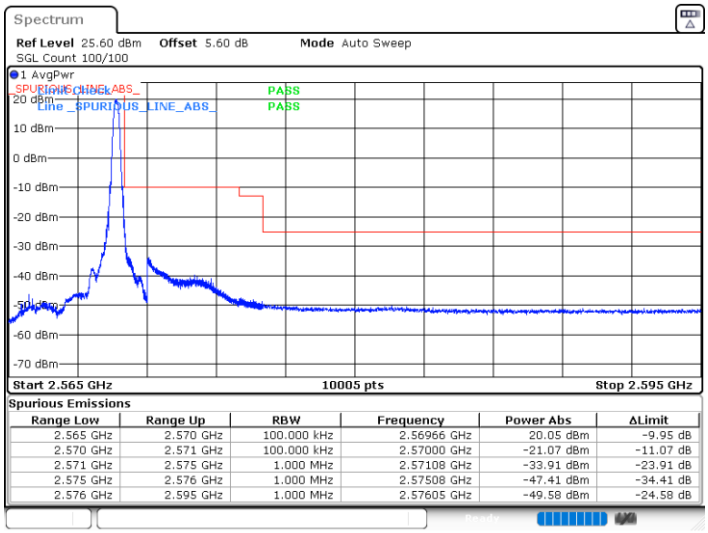


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49387 GHz	-48.82 dBm	-23.82 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49597 GHz	-42.51 dBm	-29.51 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49899 GHz	-35.90 dBm	-25.90 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.50000 GHz	-22.92 dBm	-12.92 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50034 GHz	19.16 dBm	-10.84 dB

Date: 21.JUN.2022 15:47:57

Highest Band Edge / 1 RB

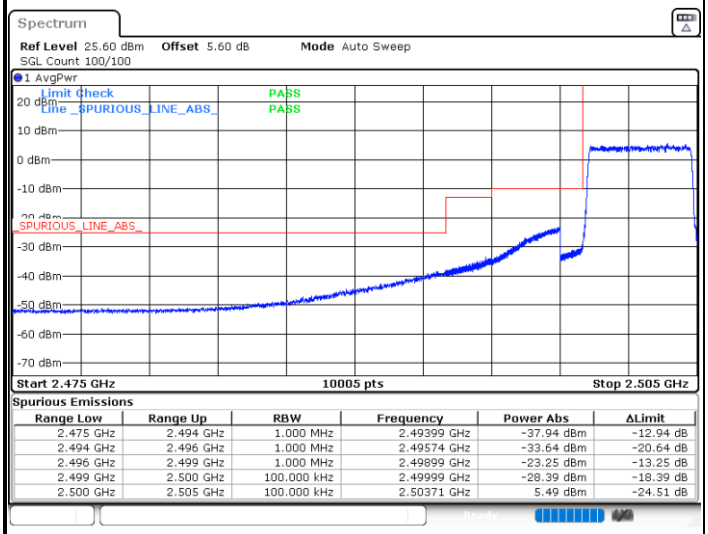


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56966 GHz	20.05 dBm	-9.95 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57000 GHz	-21.07 dBm	-11.07 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57108 GHz	-33.91 dBm	-23.91 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57508 GHz	-47.41 dBm	-34.41 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57605 GHz	-49.58 dBm	-24.58 dB

Date: 21.JUN.2022 15:59:17

Lowest Band Edge / Full RB

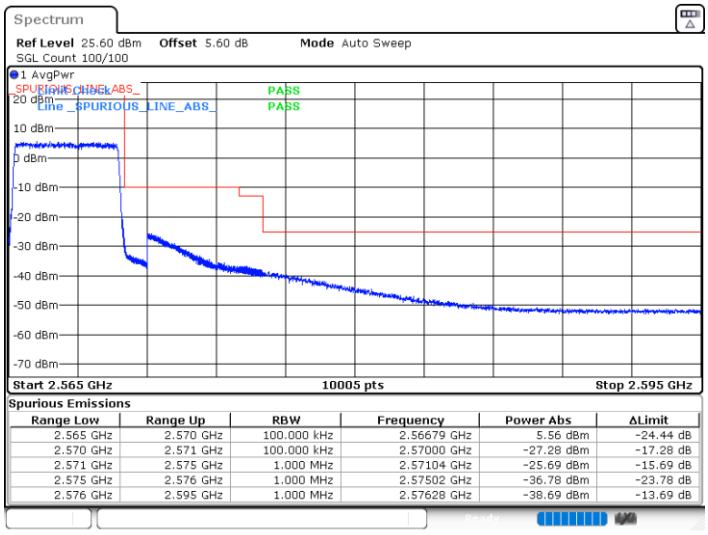


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49399 GHz	-37.94 dBm	-12.94 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49574 GHz	-33.64 dBm	-20.64 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49899 GHz	-23.25 dBm	-13.25 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.49999 GHz	-28.39 dBm	-18.39 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50371 GHz	5.49 dBm	-24.51 dB

Date: 21.JUN.2022 15:49:18

Highest Band Edge / Full RB



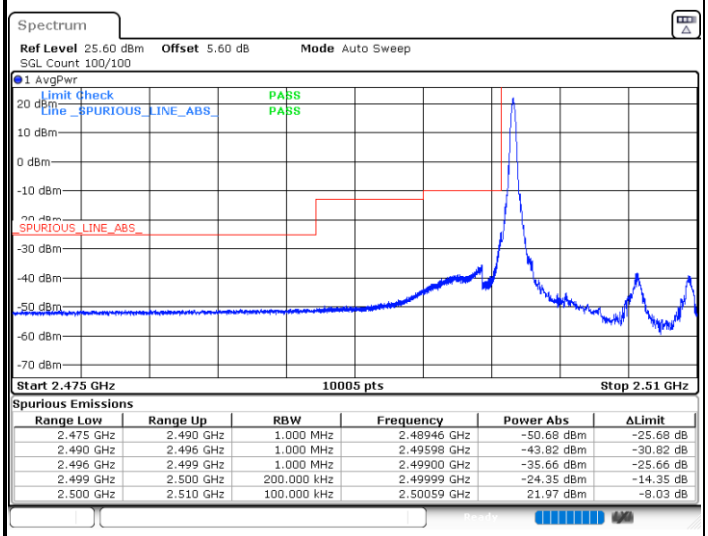
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56679 GHz	5.56 dBm	-24.44 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57000 GHz	-27.28 dBm	-17.28 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57104 GHz	-25.69 dBm	-15.69 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57502 GHz	-36.78 dBm	-23.78 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57628 GHz	-38.69 dBm	-13.69 dB

Date: 21.JUN.2022 16:00:38

LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB

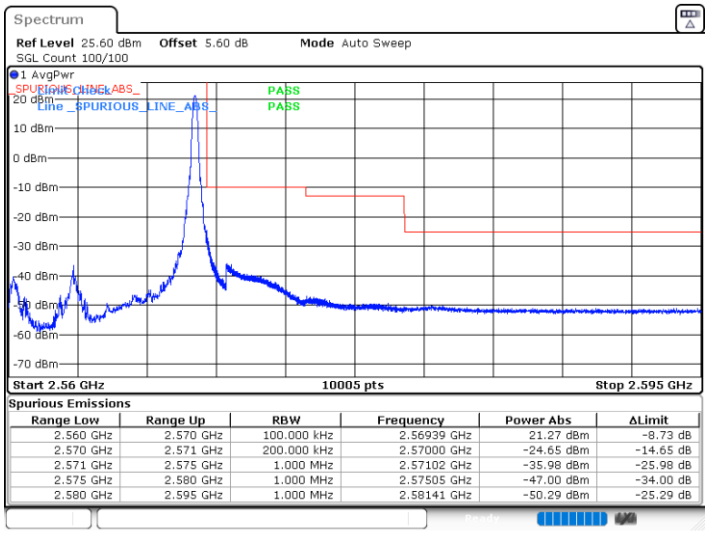


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48946 GHz	-50.68 dBm	-25.68 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49598 GHz	-43.82 dBm	-30.82 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49900 GHz	-35.66 dBm	-25.66 dB
2.499 GHz	2.500 GHz	200.000 kHz	2.49999 GHz	-24.35 dBm	-14.35 dB
2.500 GHz	2.510 GHz	100.000 kHz	2.50059 GHz	21.97 dBm	-8.03 dB

Date: 21.JUN.2022 16:06:19

Highest Band Edge / 1 RB

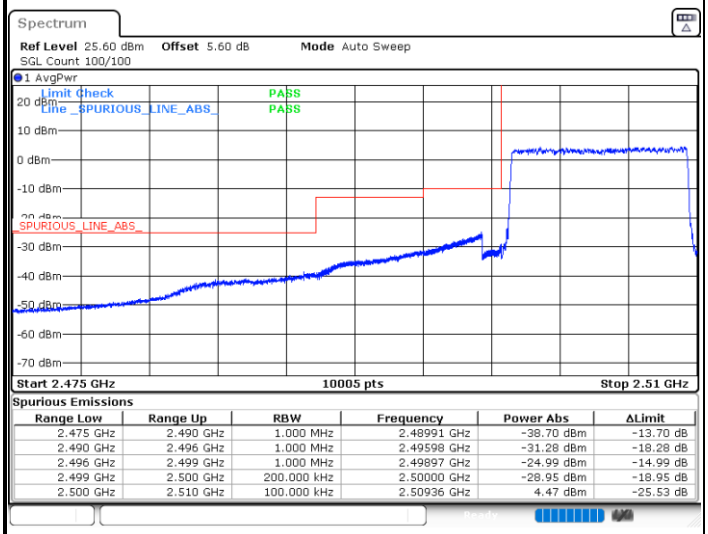


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.560 GHz	2.570 GHz	100.000 kHz	2.56939 GHz	21.27 dBm	-8.73 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.57000 GHz	-24.65 dBm	-14.65 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57102 GHz	-35.98 dBm	-25.98 dB
2.575 GHz	2.580 GHz	1.000 MHz	2.57505 GHz	-47.00 dBm	-34.00 dB
2.580 GHz	2.595 GHz	1.000 MHz	2.58141 GHz	-50.29 dBm	-25.29 dB

Date: 21.JUN.2022 16:17:38

Lowest Band Edge / Full RB

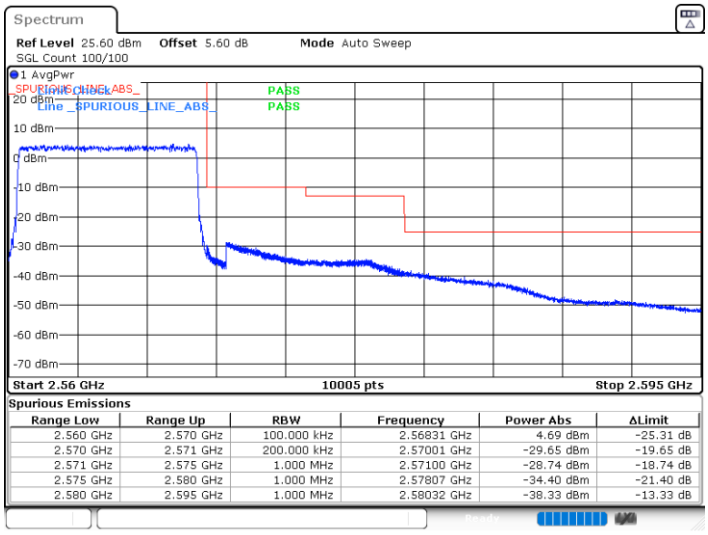


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48991 GHz	-38.70 dBm	-13.70 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49598 GHz	-31.28 dBm	-18.28 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49897 GHz	-24.99 dBm	-14.99 dB
2.499 GHz	2.500 GHz	200.000 kHz	2.50000 GHz	-28.95 dBm	-18.95 dB
2.500 GHz	2.510 GHz	100.000 kHz	2.50936 GHz	4.47 dBm	-25.53 dB

Date: 21.JUN.2022 16:13:00

Highest Band Edge / Full RB



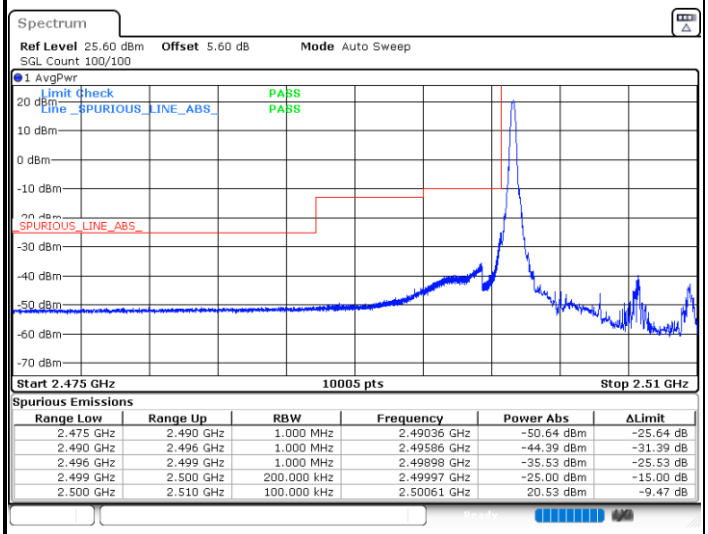
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.560 GHz	2.570 GHz	100.000 kHz	2.56831 GHz	4.69 dBm	-25.31 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.57001 GHz	-29.65 dBm	-19.65 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57100 GHz	-28.74 dBm	-18.74 dB
2.575 GHz	2.580 GHz	1.000 MHz	2.57807 GHz	-34.40 dBm	-21.40 dB
2.580 GHz	2.595 GHz	1.000 MHz	2.58032 GHz	-38.33 dBm	-13.33 dB

Date: 21.JUN.2022 16:24:19

LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

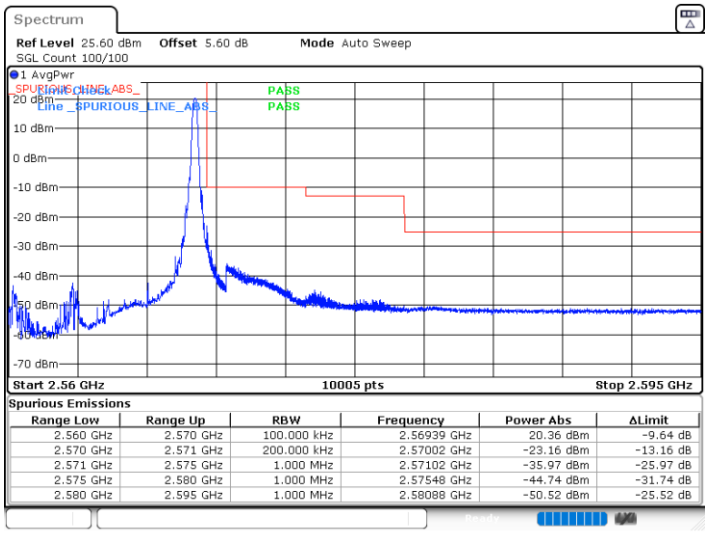


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49036 GHz	-50.64 dBm	-25.64 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49586 GHz	-44.39 dBm	-31.39 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49898 GHz	-35.53 dBm	-25.53 dB
2.499 GHz	2.500 GHz	200.000 kHz	2.49997 GHz	-25.00 dBm	-15.00 dB
2.500 GHz	2.510 GHz	100.000 kHz	2.50061 GHz	20.53 dBm	-9.47 dB

Date: 21.JUN.2022 16:07:39

Highest Band Edge / 1 RB

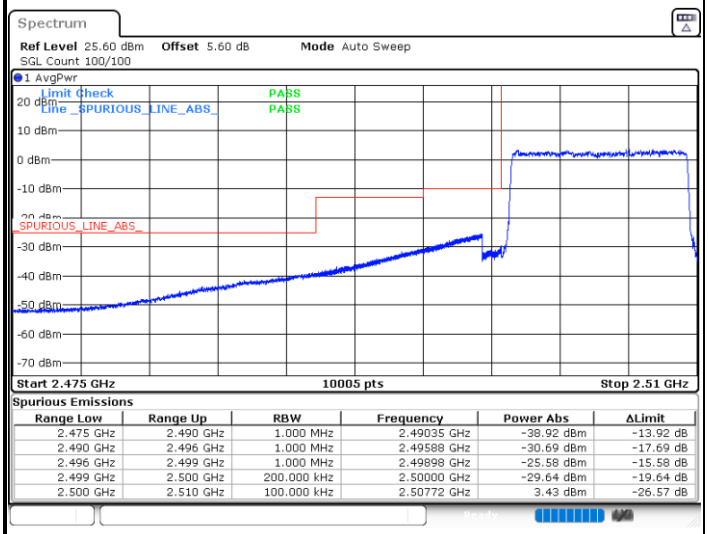


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.560 GHz	2.570 GHz	100.000 kHz	2.56939 GHz	20.36 dBm	-9.64 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.57002 GHz	-23.16 dBm	-13.16 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57102 GHz	-35.97 dBm	-25.97 dB
2.575 GHz	2.580 GHz	1.000 MHz	2.57548 GHz	-44.74 dBm	-31.74 dB
2.580 GHz	2.595 GHz	1.000 MHz	2.58088 GHz	-50.52 dBm	-25.52 dB

Date: 21.JUN.2022 16:18:58

Lowest Band Edge / Full RB

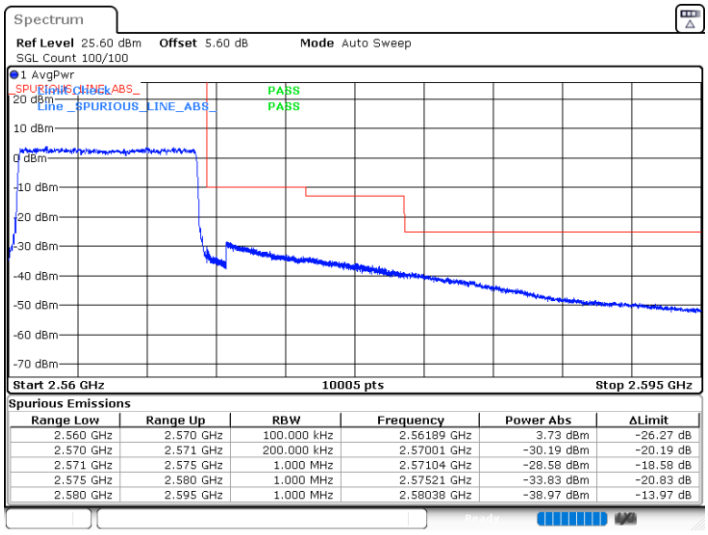


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49035 GHz	-38.92 dBm	-13.92 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49588 GHz	-30.69 dBm	-17.69 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49898 GHz	-25.58 dBm	-15.58 dB
2.499 GHz	2.500 GHz	200.000 kHz	2.50000 GHz	-29.64 dBm	-19.64 dB
2.500 GHz	2.510 GHz	100.000 kHz	2.50772 GHz	3.43 dBm	-26.57 dB

Date: 21.JUN.2022 16:11:39

Highest Band Edge / Full RB



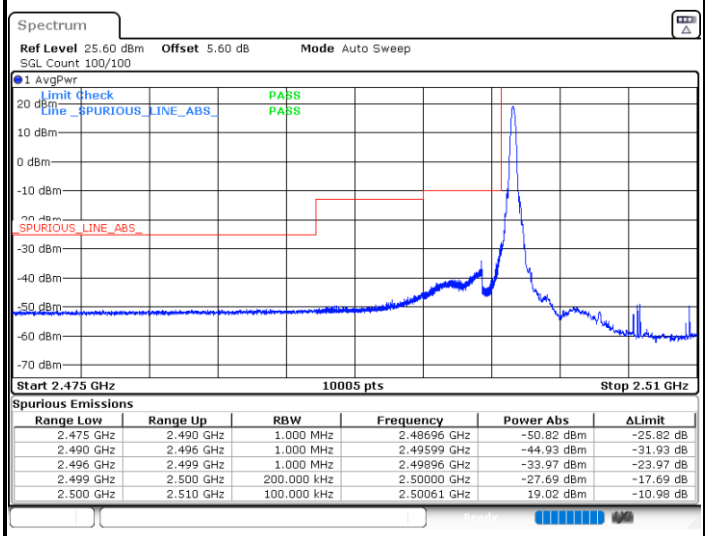
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.560 GHz	2.570 GHz	100.000 kHz	2.56189 GHz	3.73 dBm	-26.27 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.57001 GHz	-30.19 dBm	-20.19 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57104 GHz	-28.58 dBm	-18.58 dB
2.575 GHz	2.580 GHz	1.000 MHz	2.57521 GHz	-33.83 dBm	-20.83 dB
2.580 GHz	2.595 GHz	1.000 MHz	2.58038 GHz	-38.97 dBm	-13.97 dB

Date: 21.JUN.2022 16:22:59

LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

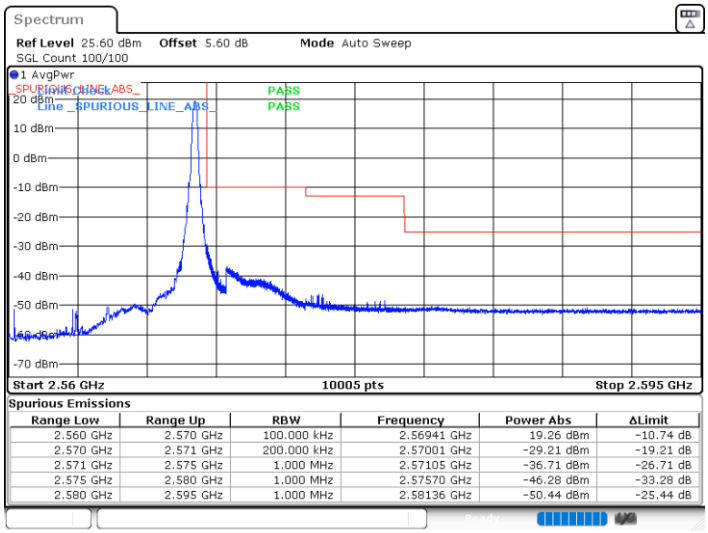


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48696 GHz	-50.82 dBm	-25.82 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49599 GHz	-44.93 dBm	-31.93 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49896 GHz	-33.97 dBm	-23.97 dB
2.499 GHz	2.500 GHz	200.000 kHz	2.50000 GHz	-27.69 dBm	-17.69 dB
2.500 GHz	2.510 GHz	100.000 kHz	2.50061 GHz	19.02 dBm	-10.98 dB

Date: 21.JUN.2022 16:08:59

Highest Band Edge / 1 RB

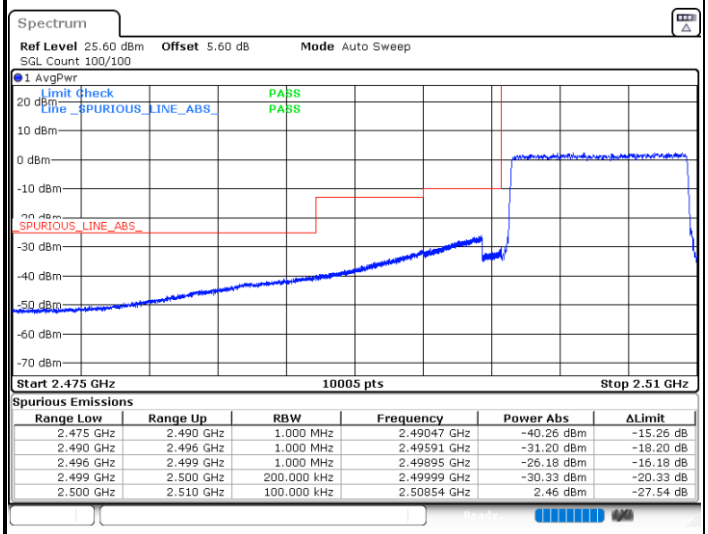


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.560 GHz	2.570 GHz	100.000 kHz	2.56941 GHz	19.26 dBm	-10.74 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.57001 GHz	-29.21 dBm	-19.21 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57105 GHz	-36.71 dBm	-26.71 dB
2.575 GHz	2.580 GHz	1.000 MHz	2.57570 GHz	-46.28 dBm	-33.28 dB
2.580 GHz	2.595 GHz	1.000 MHz	2.58136 GHz	-50.44 dBm	-25.44 dB

Date: 21.JUN.2022 16:20:18

Lowest Band Edge / Full RB

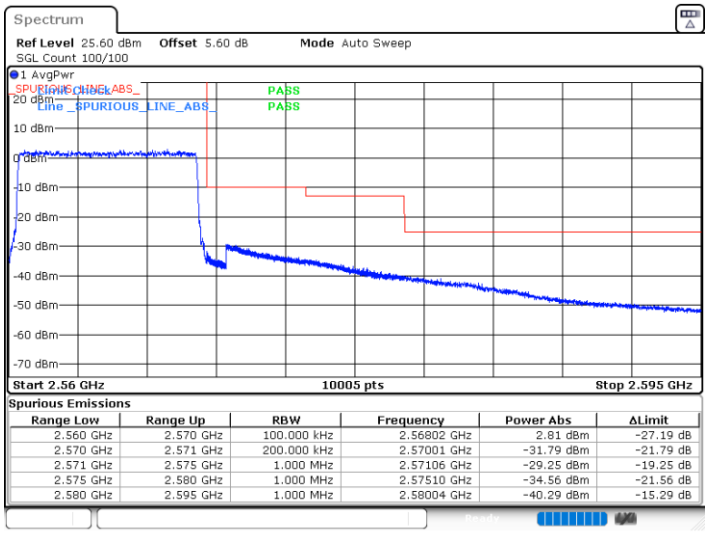


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49047 GHz	-40.26 dBm	-15.26 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49591 GHz	-31.20 dBm	-18.20 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49895 GHz	-26.18 dBm	-16.18 dB
2.499 GHz	2.500 GHz	200.000 kHz	2.49999 GHz	-30.33 dBm	-20.33 dB
2.500 GHz	2.510 GHz	100.000 kHz	2.50854 GHz	2.46 dBm	-27.54 dB

Date: 21.JUN.2022 16:10:19

Highest Band Edge / Full RB



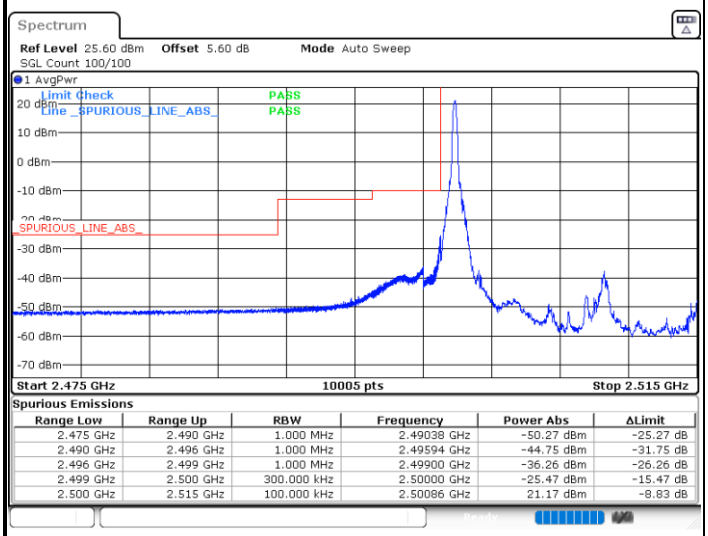
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.560 GHz	2.570 GHz	100.000 kHz	2.56802 GHz	2.81 dBm	-27.19 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.57001 GHz	-31.79 dBm	-21.79 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57106 GHz	-29.25 dBm	-19.25 dB
2.575 GHz	2.580 GHz	1.000 MHz	2.57510 GHz	-34.56 dBm	-21.56 dB
2.580 GHz	2.595 GHz	1.000 MHz	2.58004 GHz	-40.29 dBm	-15.29 dB

Date: 21.JUN.2022 16:21:39

LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB

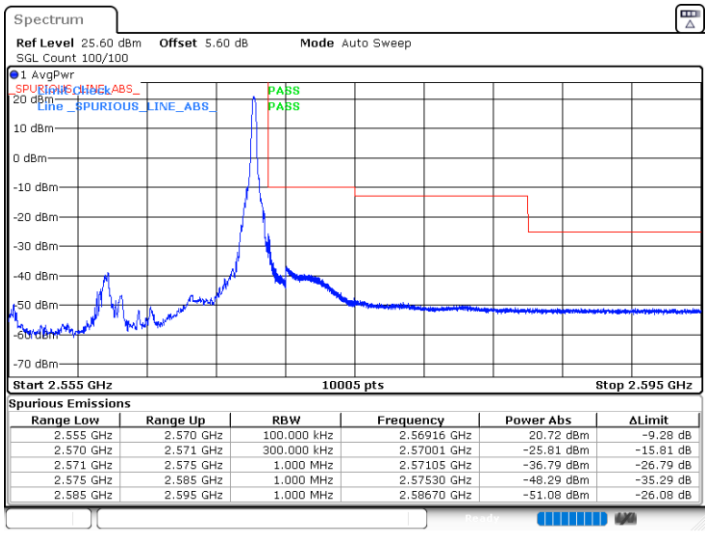


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49038 GHz	-50.27 dBm	-25.27 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49594 GHz	-44.75 dBm	-31.75 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49900 GHz	-36.26 dBm	-26.26 dB
2.499 GHz	2.500 GHz	300.000 kHz	2.50000 GHz	-25.47 dBm	-15.47 dB
2.500 GHz	2.515 GHz	100.000 kHz	2.50086 GHz	21.17 dBm	-8.83 dB

Date: 21.JUN.2022 16:27:19

Highest Band Edge / 1 RB

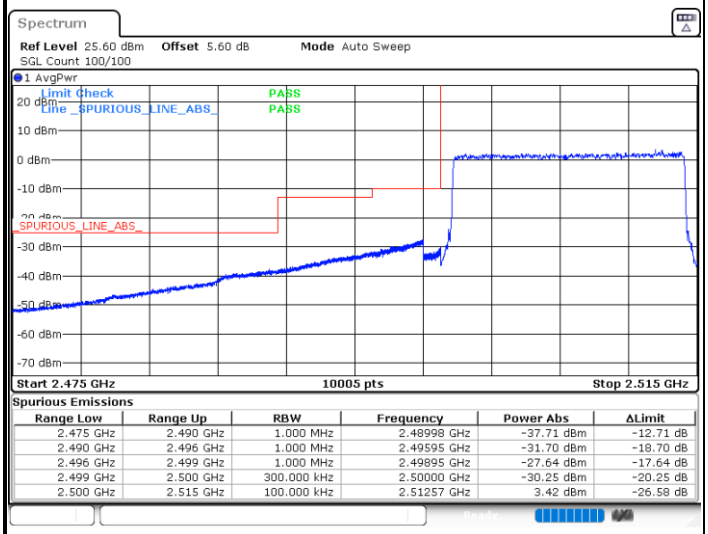


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.555 GHz	2.570 GHz	100.000 kHz	2.56916 GHz	20.72 dBm	-9.28 dB
2.570 GHz	2.571 GHz	300.000 kHz	2.57001 GHz	-25.81 dBm	-15.81 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57105 GHz	-36.79 dBm	-26.79 dB
2.575 GHz	2.585 GHz	1.000 MHz	2.57530 GHz	-48.29 dBm	-35.29 dB
2.585 GHz	2.595 GHz	1.000 MHz	2.58670 GHz	-51.08 dBm	-26.08 dB

Date: 21.JUN.2022 16:38:40

Lowest Band Edge / Full RB

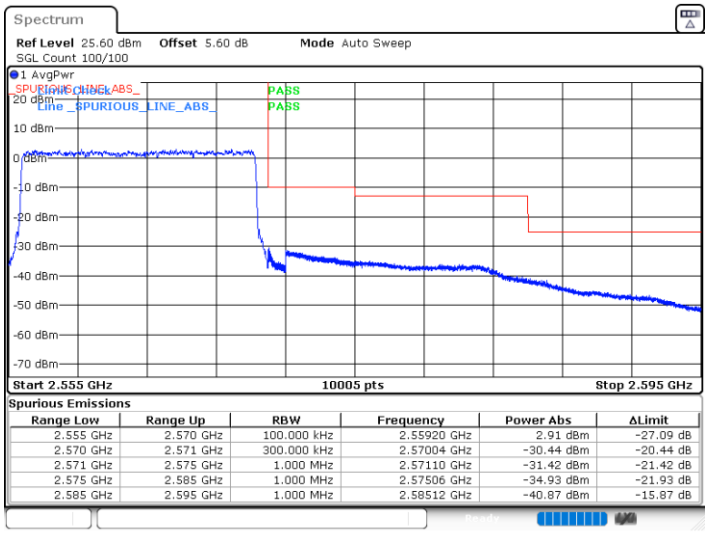


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48998 GHz	-37.71 dBm	-12.71 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49595 GHz	-31.70 dBm	-18.70 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49895 GHz	-27.64 dBm	-17.64 dB
2.499 GHz	2.500 GHz	300.000 kHz	2.50000 GHz	-30.25 dBm	-20.25 dB
2.500 GHz	2.515 GHz	100.000 kHz	2.51257 GHz	3.42 dBm	-26.58 dB

Date: 21.JUN.2022 16:34:02

Highest Band Edge / Full RB



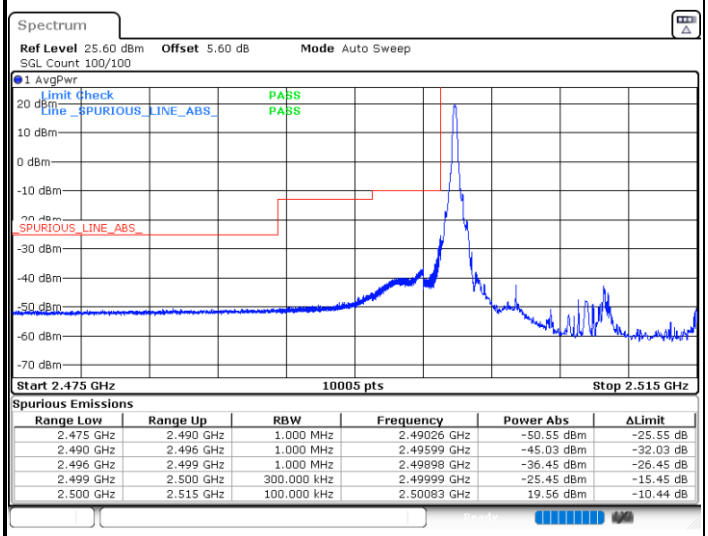
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.555 GHz	2.570 GHz	100.000 kHz	2.55920 GHz	2.91 dBm	-27.09 dB
2.570 GHz	2.571 GHz	300.000 kHz	2.57004 GHz	-30.44 dBm	-20.44 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57110 GHz	-31.42 dBm	-21.42 dB
2.575 GHz	2.585 GHz	1.000 MHz	2.57506 GHz	-34.93 dBm	-21.93 dB
2.585 GHz	2.595 GHz	1.000 MHz	2.58512 GHz	-40.87 dBm	-15.87 dB

Date: 21.JUN.2022 16:45:21

LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB

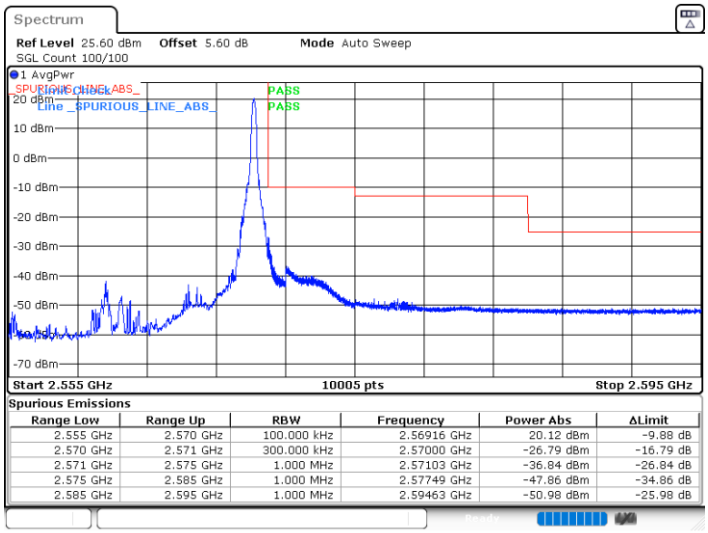


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49026 GHz	-50.55 dBm	-25.55 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49599 GHz	-45.03 dBm	-32.03 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49898 GHz	-36.45 dBm	-26.45 dB
2.499 GHz	2.500 GHz	300.000 kHz	2.49999 GHz	-25.45 dBm	-15.45 dB
2.500 GHz	2.515 GHz	100.000 kHz	2.50083 GHz	19.56 dBm	-10.44 dB

Date: 21.JUN.2022 16:28:40

Highest Band Edge / 1 RB

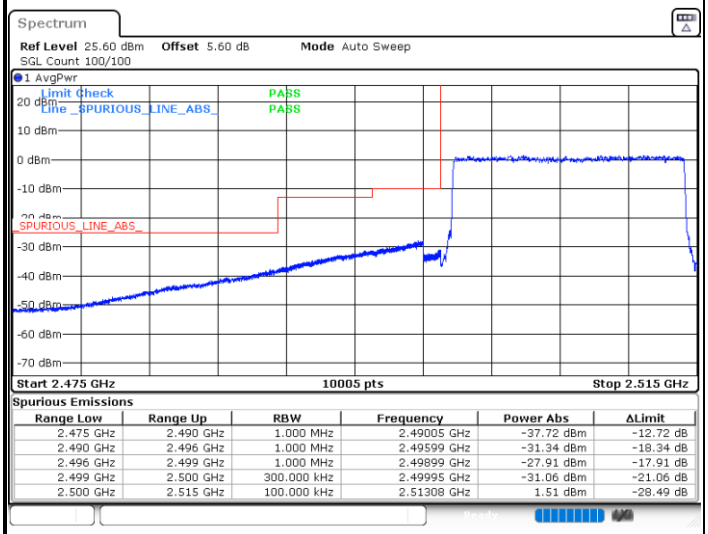


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.555 GHz	2.570 GHz	100.000 kHz	2.56916 GHz	20.12 dBm	-9.88 dB
2.570 GHz	2.571 GHz	300.000 kHz	2.57000 GHz	-26.79 dBm	-16.79 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57103 GHz	-36.84 dBm	-26.84 dB
2.575 GHz	2.585 GHz	1.000 MHz	2.57749 GHz	-47.86 dBm	-34.86 dB
2.585 GHz	2.595 GHz	1.000 MHz	2.59463 GHz	-50.98 dBm	-25.98 dB

Date: 21.JUN.2022 16:40:00

Lowest Band Edge / Full RB

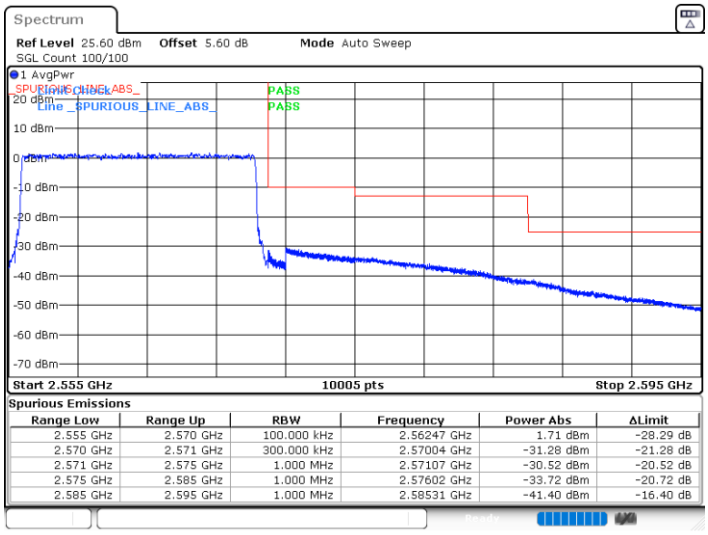


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49005 GHz	-37.72 dBm	-12.72 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49599 GHz	-31.34 dBm	-18.34 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49899 GHz	-27.91 dBm	-17.91 dB
2.499 GHz	2.500 GHz	300.000 kHz	2.49995 GHz	-31.06 dBm	-21.06 dB
2.500 GHz	2.515 GHz	100.000 kHz	2.51308 GHz	1.51 dBm	-28.49 dB

Date: 21.JUN.2022 16:32:42

Highest Band Edge / Full RB



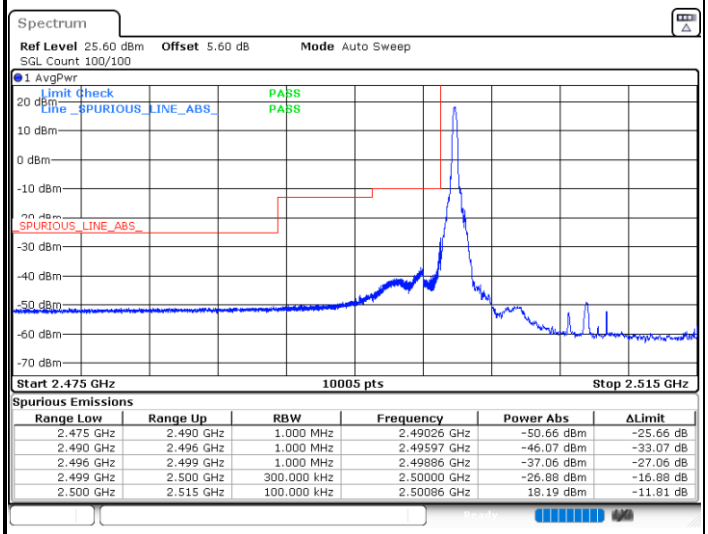
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.555 GHz	2.570 GHz	100.000 kHz	2.56247 GHz	1.71 dBm	-28.29 dB
2.570 GHz	2.571 GHz	300.000 kHz	2.57004 GHz	-31.28 dBm	-21.28 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57107 GHz	-30.52 dBm	-20.52 dB
2.575 GHz	2.585 GHz	1.000 MHz	2.57602 GHz	-33.72 dBm	-20.72 dB
2.585 GHz	2.595 GHz	1.000 MHz	2.58531 GHz	-41.40 dBm	-16.40 dB

Date: 21.JUN.2022 16:44:00

LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1 RB

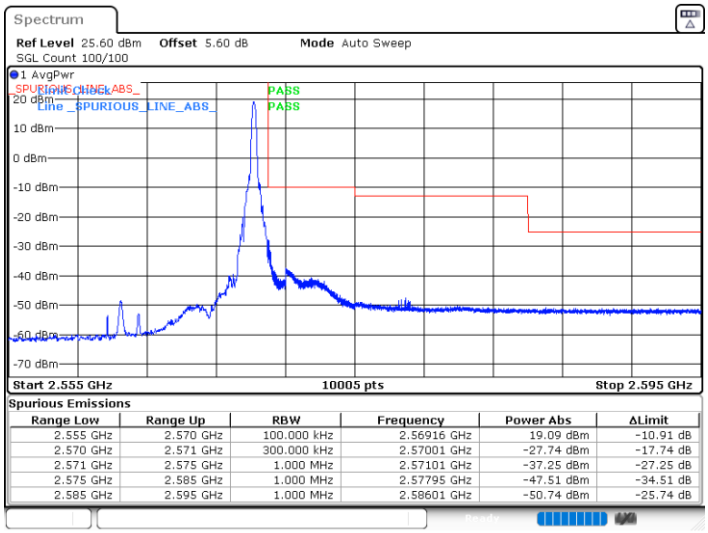


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49026 GHz	-50.66 dBm	-25.66 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49597 GHz	-46.07 dBm	-33.07 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49886 GHz	-37.06 dBm	-27.06 dB
2.499 GHz	2.500 GHz	300.000 kHz	2.50000 GHz	-26.88 dBm	-16.88 dB
2.500 GHz	2.515 GHz	100.000 kHz	2.50086 GHz	18.19 dBm	-11.81 dB

Date: 21.JUN.2022 16:30:00

Highest Band Edge / 1 RB

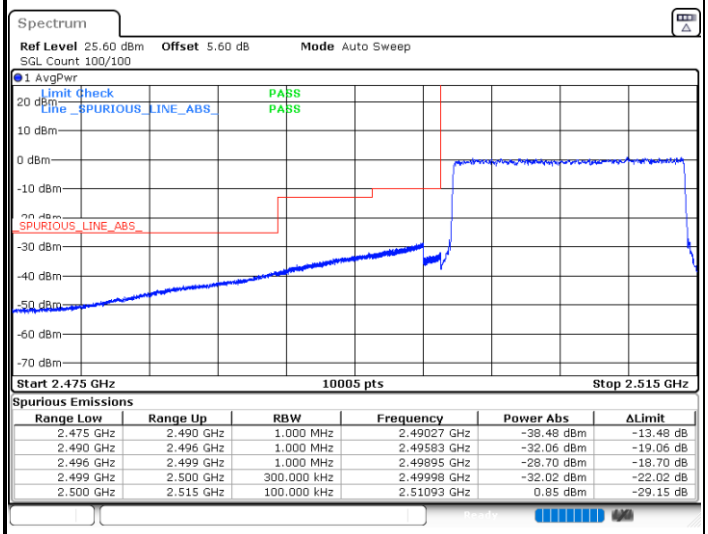


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.555 GHz	2.570 GHz	100.000 kHz	2.56916 GHz	19.09 dBm	-10.91 dB
2.570 GHz	2.571 GHz	300.000 kHz	2.57001 GHz	-27.74 dBm	-17.74 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57101 GHz	-37.25 dBm	-27.25 dB
2.575 GHz	2.585 GHz	1.000 MHz	2.57795 GHz	-47.51 dBm	-34.51 dB
2.585 GHz	2.595 GHz	1.000 MHz	2.58601 GHz	-50.74 dBm	-25.74 dB

Date: 21.JUN.2022 16:41:20

Lowest Band Edge / Full RB

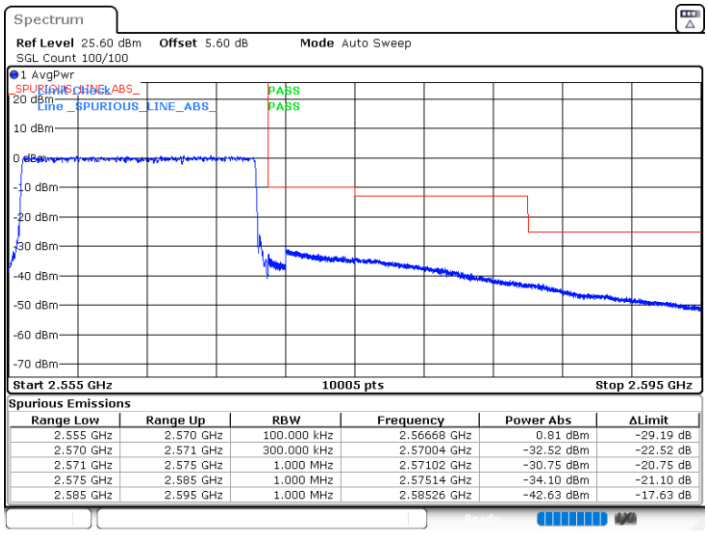


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49027 GHz	-38.48 dBm	-13.48 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49583 GHz	-32.06 dBm	-19.06 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49895 GHz	-28.70 dBm	-18.70 dB
2.499 GHz	2.500 GHz	300.000 kHz	2.49998 GHz	-32.02 dBm	-22.02 dB
2.500 GHz	2.515 GHz	100.000 kHz	2.51093 GHz	0.85 dBm	-29.15 dB

Date: 21.JUN.2022 16:31:21

Highest Band Edge / Full RB



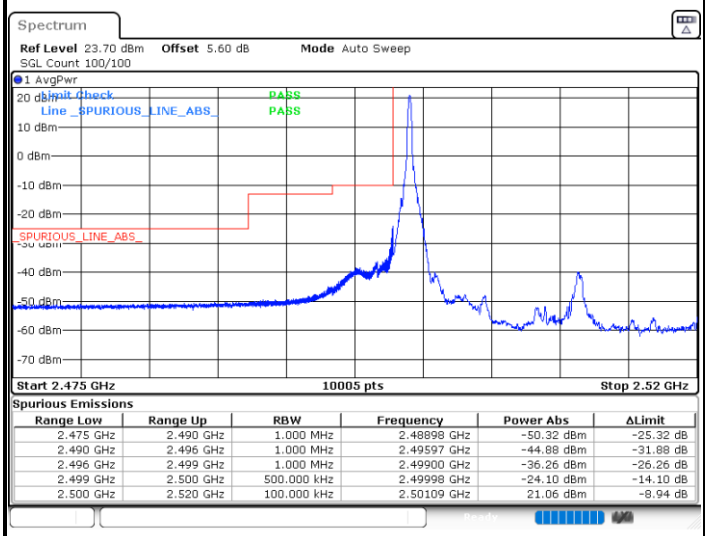
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.555 GHz	2.570 GHz	100.000 kHz	2.56668 GHz	0.81 dBm	-29.19 dB
2.570 GHz	2.571 GHz	300.000 kHz	2.57004 GHz	-32.52 dBm	-22.52 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57102 GHz	-30.75 dBm	-20.75 dB
2.575 GHz	2.585 GHz	1.000 MHz	2.57514 GHz	-34.10 dBm	-21.10 dB
2.585 GHz	2.595 GHz	1.000 MHz	2.58526 GHz	-42.63 dBm	-17.63 dB

Date: 21.JUN.2022 16:42:40

LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB

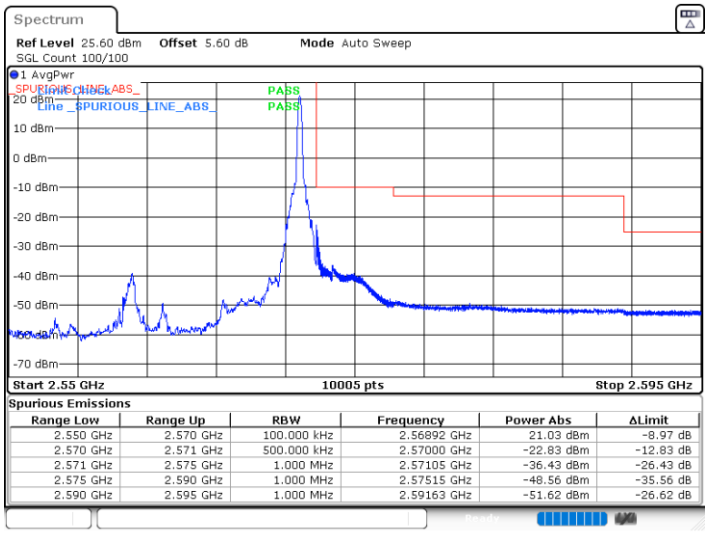


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48898 GHz	-50.32 dBm	-25.32 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49597 GHz	-44.88 dBm	-31.88 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49900 GHz	-36.26 dBm	-26.26 dB
2.499 GHz	2.500 GHz	500.000 kHz	2.49998 GHz	-24.10 dBm	-14.10 dB
2.500 GHz	2.520 GHz	100.000 kHz	2.50109 GHz	21.06 dBm	-8.94 dB

Date: 21.JUN.2022 16:48:20

Highest Band Edge / 1 RB

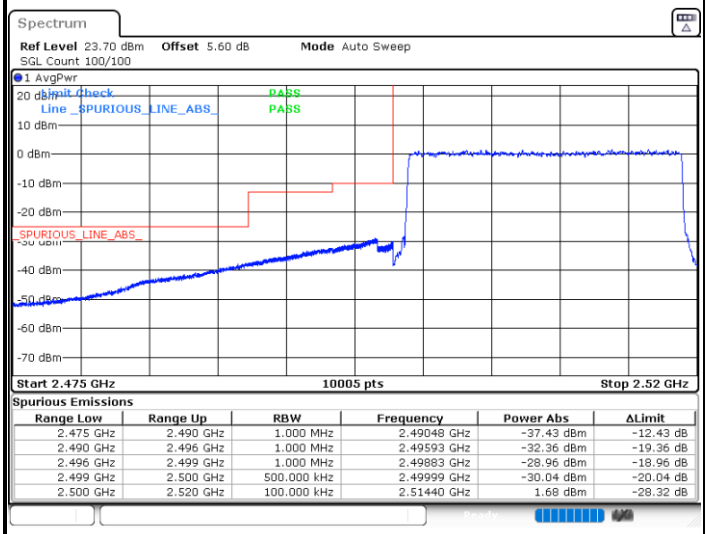


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.550 GHz	2.570 GHz	100.000 kHz	2.56892 GHz	21.03 dBm	-8.97 dB
2.570 GHz	2.571 GHz	500.000 kHz	2.57000 GHz	-22.83 dBm	-12.83 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57105 GHz	-36.43 dBm	-26.43 dB
2.575 GHz	2.590 GHz	1.000 MHz	2.57515 GHz	-48.56 dBm	-35.56 dB
2.590 GHz	2.595 GHz	1.000 MHz	2.59163 GHz	-51.62 dBm	-26.62 dB

Date: 21.JUN.2022 16:59:41

Lowest Band Edge / Full RB

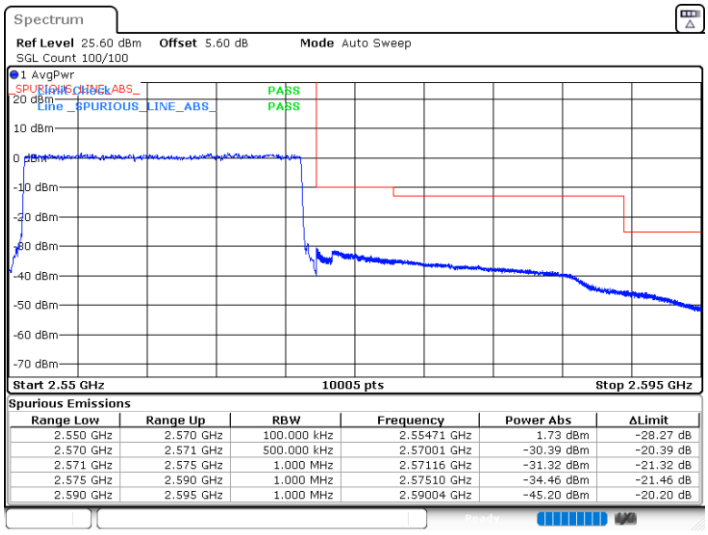


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49048 GHz	-37.43 dBm	-12.43 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49593 GHz	-32.36 dBm	-19.36 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49883 GHz	-28.96 dBm	-18.96 dB
2.499 GHz	2.500 GHz	500.000 kHz	2.49999 GHz	-30.04 dBm	-20.04 dB
2.500 GHz	2.520 GHz	100.000 kHz	2.51440 GHz	1.68 dBm	-28.32 dB

Date: 21.JUN.2022 16:55:03

Highest Band Edge / Full RB



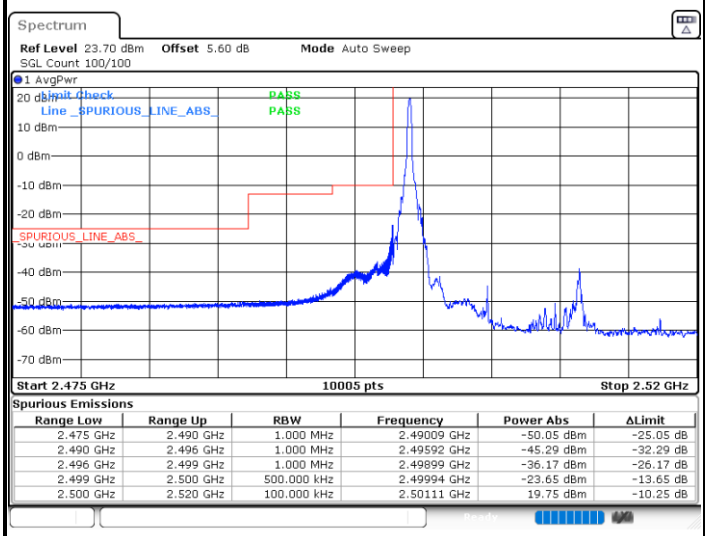
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.550 GHz	2.570 GHz	100.000 kHz	2.55471 GHz	1.73 dBm	-28.27 dB
2.570 GHz	2.571 GHz	500.000 kHz	2.57001 GHz	-30.39 dBm	-20.39 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57116 GHz	-31.32 dBm	-21.32 dB
2.575 GHz	2.590 GHz	1.000 MHz	2.57510 GHz	-34.46 dBm	-21.46 dB
2.590 GHz	2.595 GHz	1.000 MHz	2.59004 GHz	-45.20 dBm	-20.20 dB

Date: 21.JUN.2022 17:06:22

LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB

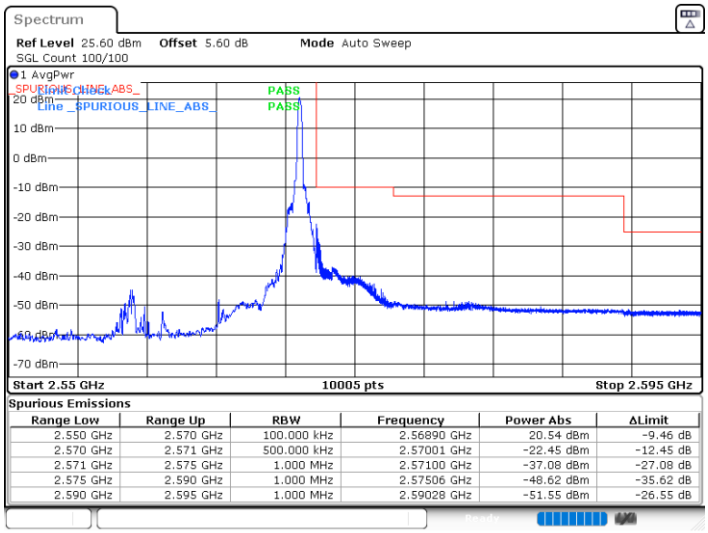


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49009 GHz	-50.05 dBm	-25.05 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49592 GHz	-45.29 dBm	-32.29 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49899 GHz	-36.17 dBm	-26.17 dB
2.499 GHz	2.500 GHz	500.000 kHz	2.49994 GHz	-23.65 dBm	-13.65 dB
2.500 GHz	2.520 GHz	100.000 kHz	2.50111 GHz	19.75 dBm	-10.25 dB

Date: 21.JUN.2022 16:49:41

Highest Band Edge / 1 RB

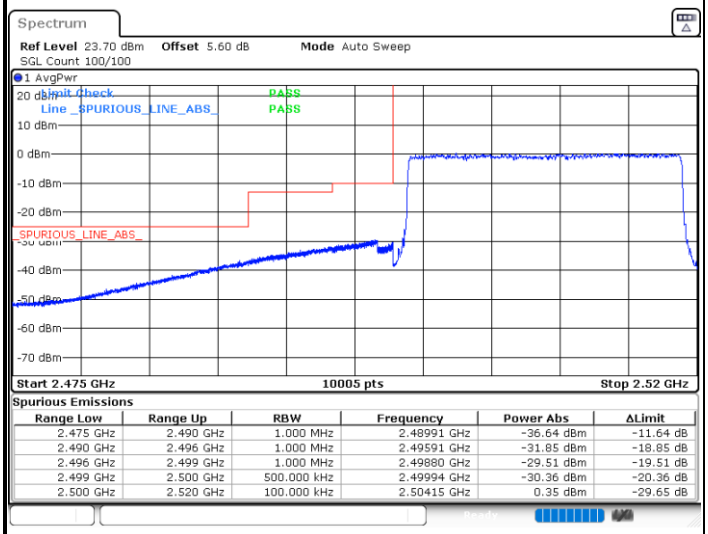


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.550 GHz	2.570 GHz	100.000 kHz	2.56890 GHz	20.54 dBm	-9.46 dB
2.570 GHz	2.571 GHz	500.000 kHz	2.57001 GHz	-22.45 dBm	-12.45 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57100 GHz	-37.08 dBm	-27.08 dB
2.575 GHz	2.590 GHz	1.000 MHz	2.57506 GHz	-48.62 dBm	-35.62 dB
2.590 GHz	2.595 GHz	1.000 MHz	2.59028 GHz	-51.55 dBm	-26.55 dB

Date: 21.JUN.2022 17:01:01

Lowest Band Edge / Full RB

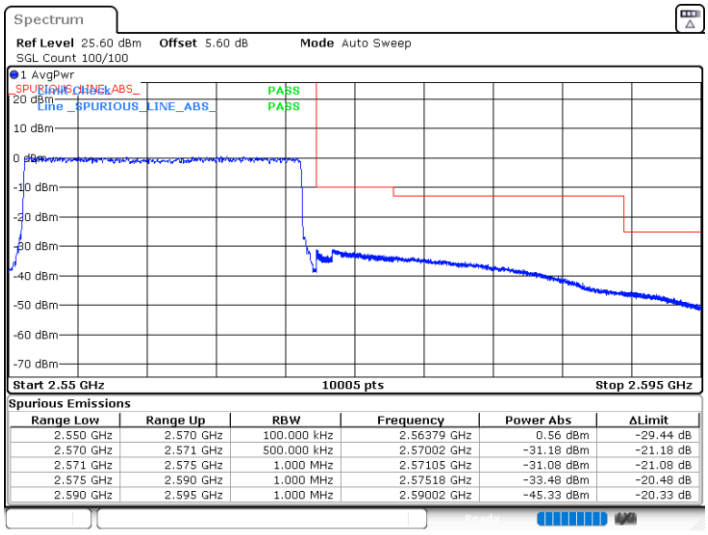


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48991 GHz	-36.64 dBm	-11.64 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49591 GHz	-31.85 dBm	-18.85 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49880 GHz	-29.51 dBm	-19.51 dB
2.499 GHz	2.500 GHz	500.000 kHz	2.49994 GHz	-30.36 dBm	-20.36 dB
2.500 GHz	2.520 GHz	100.000 kHz	2.50415 GHz	0.35 dBm	-29.65 dB

Date: 21.JUN.2022 16:53:43

Highest Band Edge / Full RB



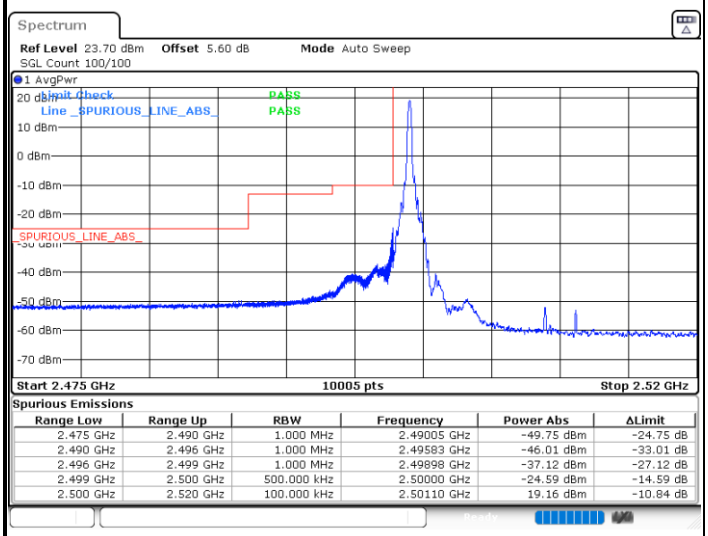
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.550 GHz	2.570 GHz	100.000 kHz	2.56379 GHz	0.56 dBm	-29.44 dB
2.570 GHz	2.571 GHz	500.000 kHz	2.57002 GHz	-31.18 dBm	-21.18 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57105 GHz	-31.08 dBm	-21.08 dB
2.575 GHz	2.590 GHz	1.000 MHz	2.57518 GHz	-33.48 dBm	-20.48 dB
2.590 GHz	2.595 GHz	1.000 MHz	2.59002 GHz	-45.33 dBm	-20.33 dB

Date: 21.JUN.2022 17:05:02

LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB

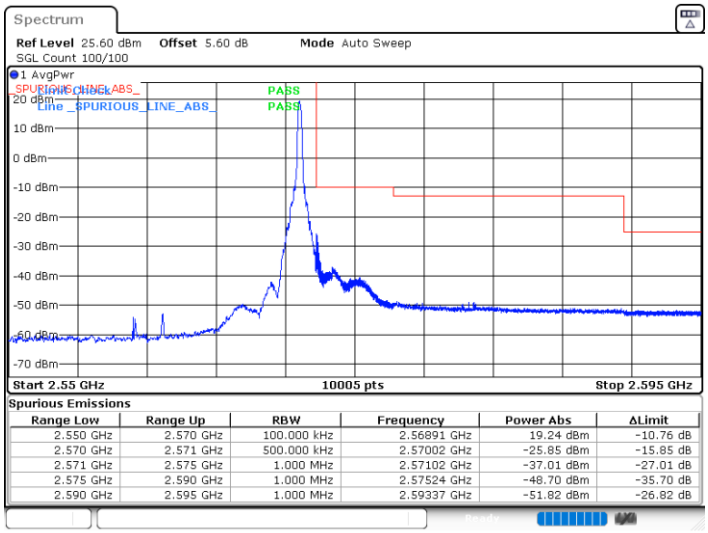


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49005 GHz	-49.75 dBm	-24.75 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49583 GHz	-46.01 dBm	-33.01 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49898 GHz	-37.12 dBm	-27.12 dB
2.499 GHz	2.500 GHz	500.000 kHz	2.50000 GHz	-24.59 dBm	-14.59 dB
2.500 GHz	2.520 GHz	100.000 kHz	2.50110 GHz	19.16 dBm	-10.84 dB

Date: 21.JUN.2022 16:51:02

Highest Band Edge / 1 RB

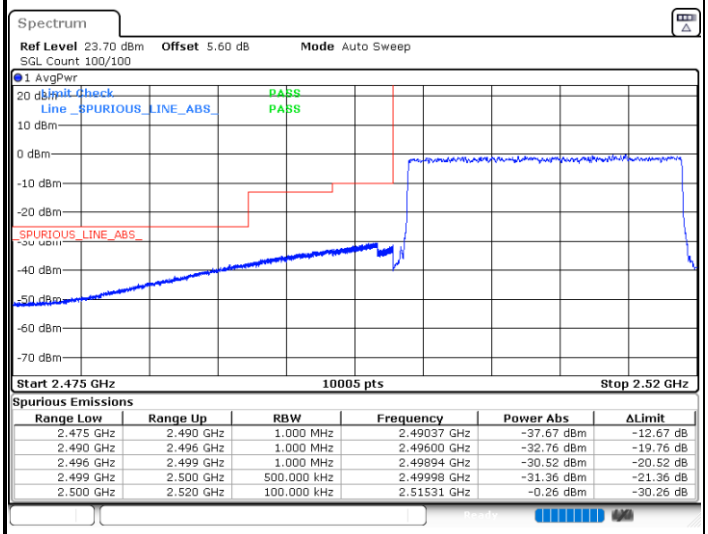


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.550 GHz	2.570 GHz	100.000 kHz	2.56891 GHz	19.24 dBm	-10.76 dB
2.570 GHz	2.571 GHz	500.000 kHz	2.57002 GHz	-25.85 dBm	-15.85 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57102 GHz	-37.01 dBm	-27.01 dB
2.575 GHz	2.590 GHz	1.000 MHz	2.57524 GHz	-48.70 dBm	-35.70 dB
2.590 GHz	2.595 GHz	1.000 MHz	2.59337 GHz	-51.82 dBm	-26.82 dB

Date: 21.JUN.2022 17:02:21

Lowest Band Edge / Full RB

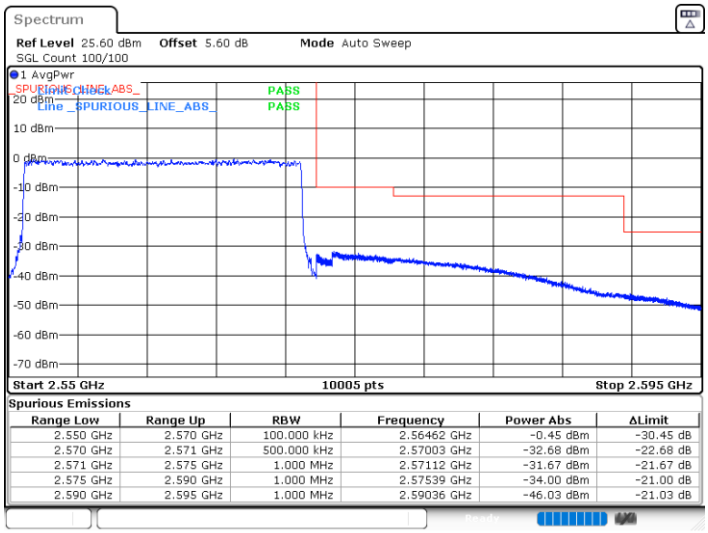


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49037 GHz	-37.67 dBm	-12.67 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49600 GHz	-32.76 dBm	-19.76 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49894 GHz	-30.52 dBm	-20.52 dB
2.499 GHz	2.500 GHz	500.000 kHz	2.49998 GHz	-31.36 dBm	-21.36 dB
2.500 GHz	2.520 GHz	100.000 kHz	2.51531 GHz	-0.26 dBm	-30.26 dB

Date: 21.JUN.2022 16:52:22

Highest Band Edge / Full RB



Spurious Emissions

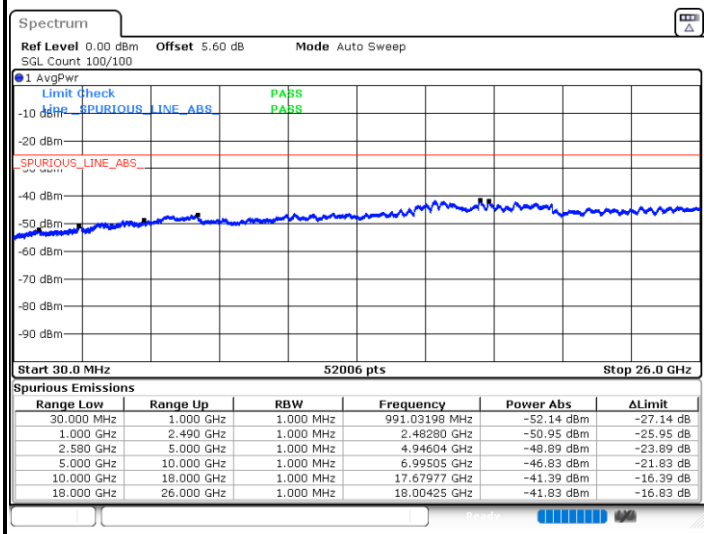
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.550 GHz	2.570 GHz	100.000 kHz	2.56462 GHz	-0.45 dBm	-30.45 dB
2.570 GHz	2.571 GHz	500.000 kHz	2.57003 GHz	-32.68 dBm	-22.68 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57112 GHz	-31.67 dBm	-21.67 dB
2.575 GHz	2.590 GHz	1.000 MHz	2.57539 GHz	-34.00 dBm	-21.00 dB
2.590 GHz	2.595 GHz	1.000 MHz	2.59036 GHz	-46.03 dBm	-21.03 dB

Date: 21.JUN.2022 17:03:42

Conducted Spurious Emission

LTE Band 7 / 5MHz

Lowest Channel / QPSK

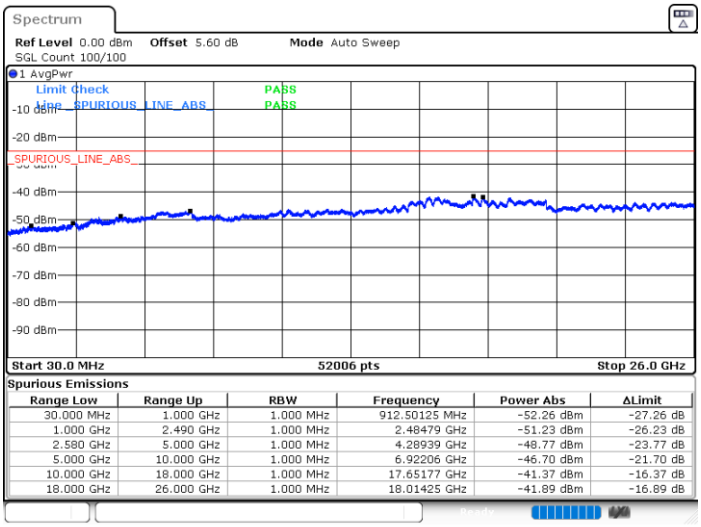


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	991.03198 MHz	-52.14 dBm	-27.14 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.48280 GHz	-50.95 dBm	-25.95 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.94604 GHz	-48.89 dBm	-23.89 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.99505 GHz	-46.83 dBm	-21.83 dB
10.000 GHz	18.000 GHz	1.000 MHz	17.67977 GHz	-41.39 dBm	-16.39 dB
18.000 GHz	26.000 GHz	1.000 MHz	18.00425 GHz	-41.83 dBm	-16.83 dB

Date: 21.JUN.2022 15:43:56

Middle Channel / QPSK

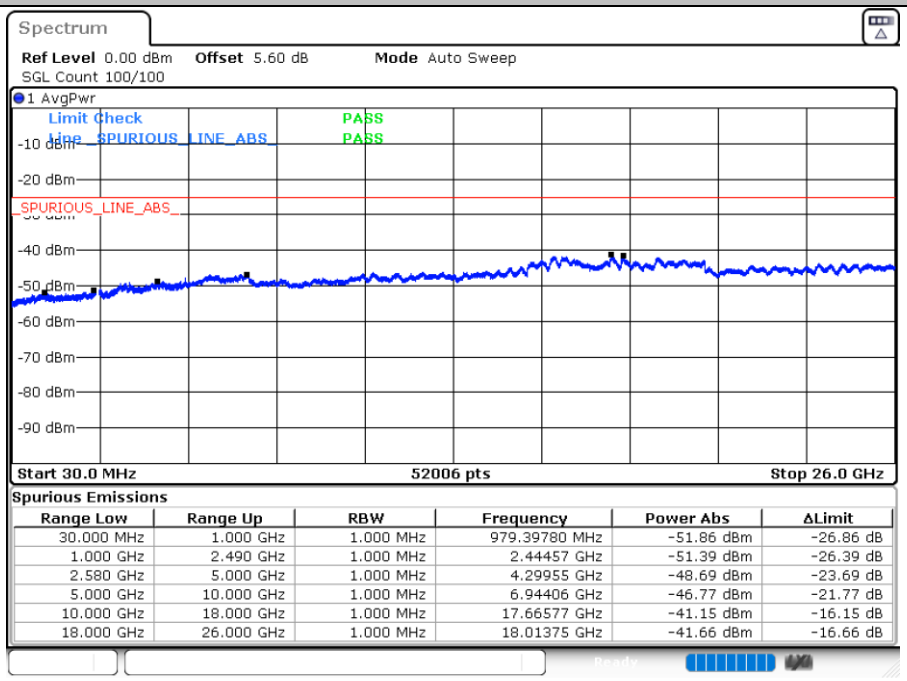


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	912.50125 MHz	-52.26 dBm	-27.26 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.48479 GHz	-51.23 dBm	-26.23 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.28939 GHz	-48.77 dBm	-23.77 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.92206 GHz	-46.70 dBm	-21.70 dB
10.000 GHz	18.000 GHz	1.000 MHz	17.65177 GHz	-41.37 dBm	-16.37 dB
18.000 GHz	26.000 GHz	1.000 MHz	18.01425 GHz	-41.89 dBm	-16.89 dB

Date: 21.JUN.2022 15:53:38

Highest Channel / QPSK



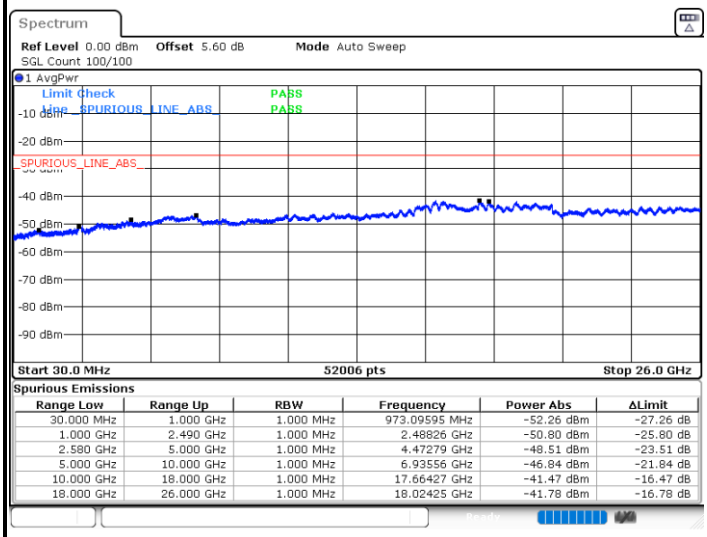
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	979.39780 MHz	-51.86 dBm	-26.86 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.44457 GHz	-51.39 dBm	-26.39 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.29955 GHz	-48.69 dBm	-23.69 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.94406 GHz	-46.77 dBm	-21.77 dB
10.000 GHz	18.000 GHz	1.000 MHz	17.66577 GHz	-41.15 dBm	-16.15 dB
18.000 GHz	26.000 GHz	1.000 MHz	18.01375 GHz	-41.66 dBm	-16.66 dB

Date: 21.JUN.2022 15:55:17

LTE Band 7 / 10MHz

Lowest Channel / QPSK

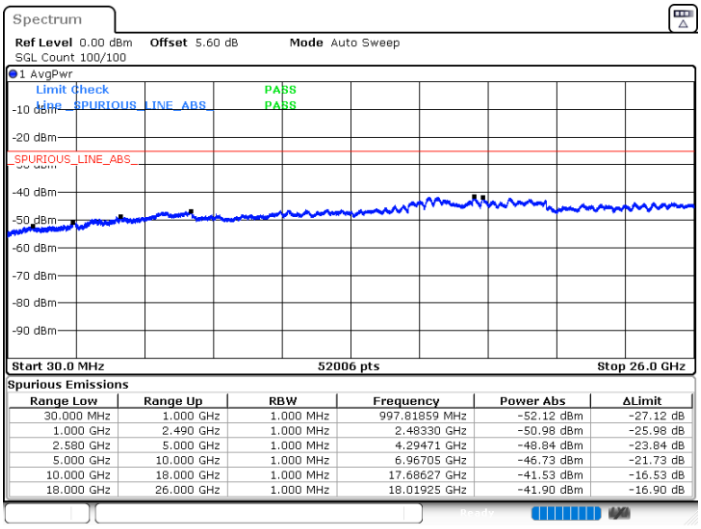


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	973.09595 MHz	-52.26 dBm	-27.26 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.48826 GHz	-50.80 dBm	-25.80 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.47279 GHz	-48.51 dBm	-23.51 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.93556 GHz	-46.84 dBm	-21.84 dB
10.000 GHz	18.000 GHz	1.000 MHz	17.66427 GHz	-41.47 dBm	-16.47 dB
18.000 GHz	26.000 GHz	1.000 MHz	18.02425 GHz	-41.78 dBm	-16.78 dB

Date: 21.JUN.2022 16:04:58

Middle Channel / QPSK

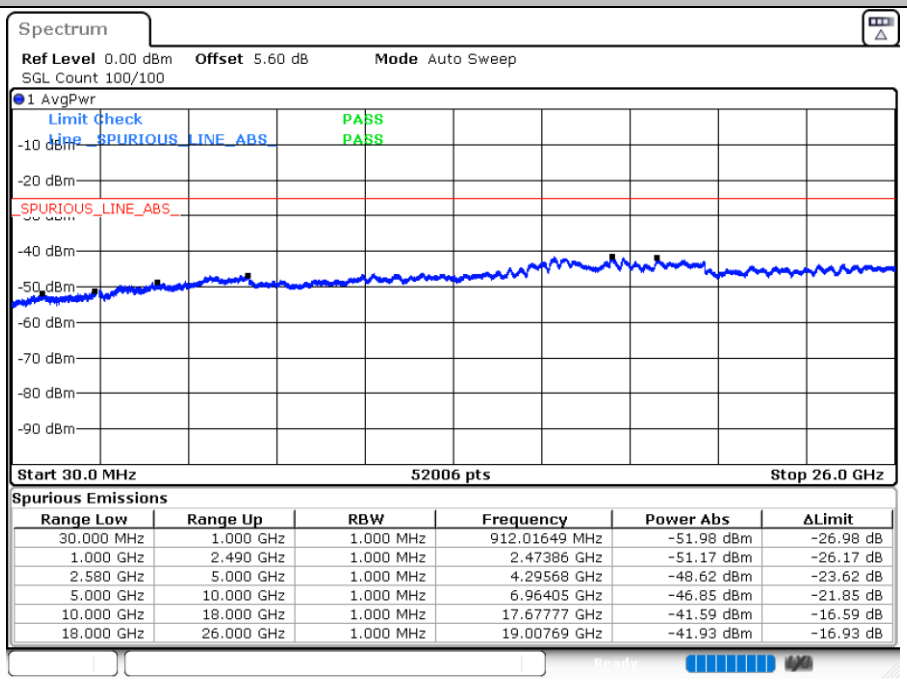


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	997.81859 MHz	-52.12 dBm	-27.12 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.48330 GHz	-50.98 dBm	-25.98 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.29471 GHz	-48.84 dBm	-23.84 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.96705 GHz	-46.73 dBm	-21.73 dB
10.000 GHz	18.000 GHz	1.000 MHz	17.68627 GHz	-41.53 dBm	-16.53 dB
18.000 GHz	26.000 GHz	1.000 MHz	18.01925 GHz	-41.90 dBm	-16.90 dB

Date: 21.JUN.2022 16:14:39

Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	912.01649 MHz	-51.98 dBm	-26.98 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.47386 GHz	-51.17 dBm	-26.17 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.29568 GHz	-48.62 dBm	-23.62 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.96405 GHz	-46.85 dBm	-21.85 dB
10.000 GHz	18.000 GHz	1.000 MHz	17.67777 GHz	-41.59 dBm	-16.59 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.00769 GHz	-41.93 dBm	-16.93 dB

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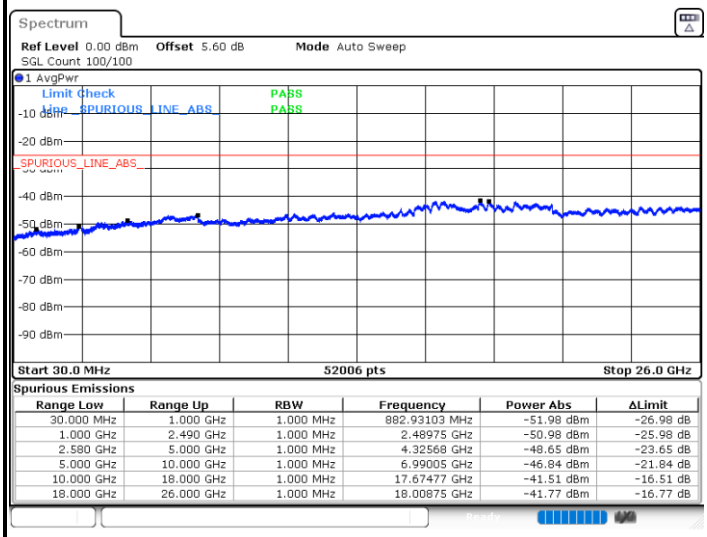
LTE Band 7 / 15MHz

Lowest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	882.93103 MHz	-51.98 dBm	-26.98 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.48975 GHz	-50.98 dBm	-25.98 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.32568 GHz	-48.65 dBm	-23.65 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.99005 GHz	-46.84 dBm	-21.84 dB
10.000 GHz	18.000 GHz	1.000 MHz	17.67477 GHz	-41.51 dBm	-16.51 dB
18.000 GHz	26.000 GHz	1.000 MHz	18.00875 GHz	-41.77 dBm	-16.77 dB

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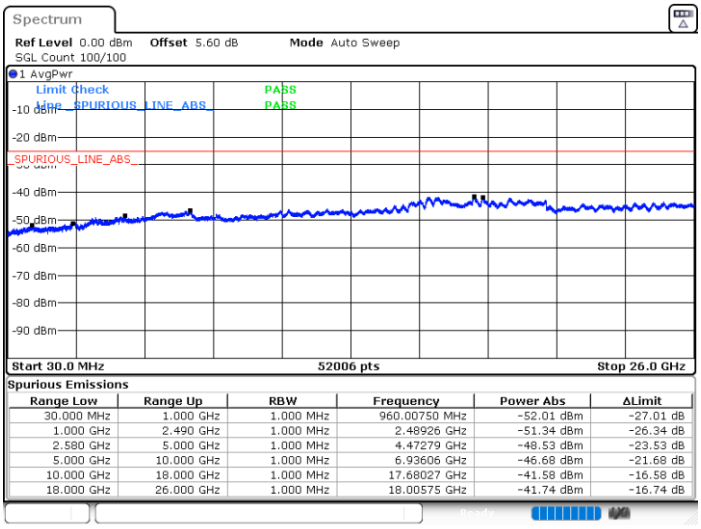
Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	960.00750 MHz	-52.01 dBm	-27.01 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.48926 GHz	-51.34 dBm	-26.34 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.47279 GHz	-48.53 dBm	-23.53 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.93606 GHz	-46.68 dBm	-21.68 dB
10.000 GHz	18.000 GHz	1.000 MHz	17.68027 GHz	-41.58 dBm	-16.58 dB
18.000 GHz	26.000 GHz	1.000 MHz	18.00575 GHz	-41.74 dBm	-16.74 dB

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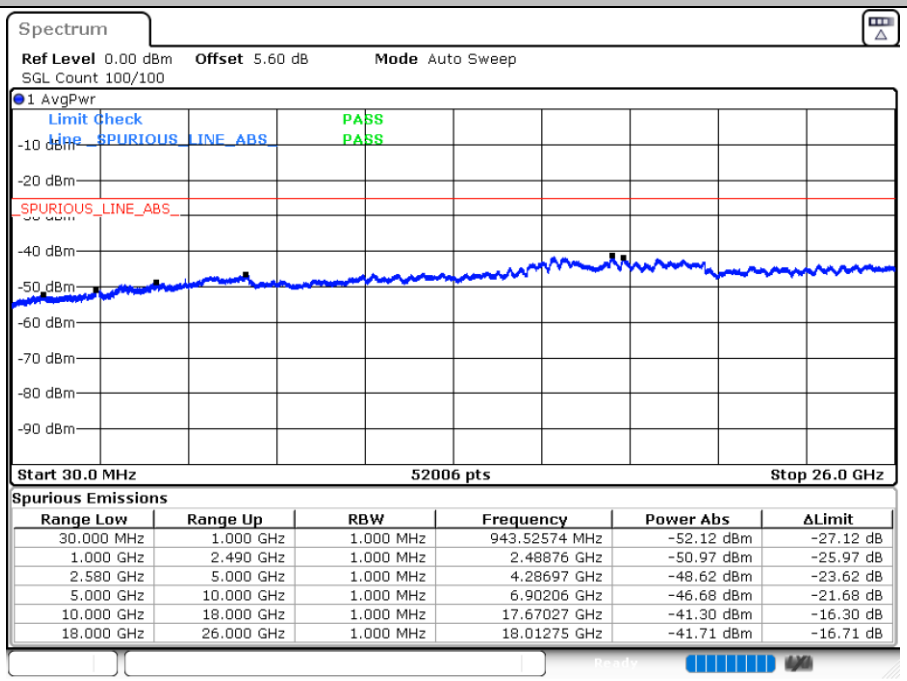
Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	943.52574 MHz	-52.12 dBm	-27.12 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.48876 GHz	-50.97 dBm	-25.97 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.28697 GHz	-48.62 dBm	-23.62 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.90206 GHz	-46.68 dBm	-21.68 dB
10.000 GHz	18.000 GHz	1.000 MHz	17.67027 GHz	-41.30 dBm	-16.30 dB
18.000 GHz	26.000 GHz	1.000 MHz	18.01275 GHz	-41.71 dBm	-16.71 dB

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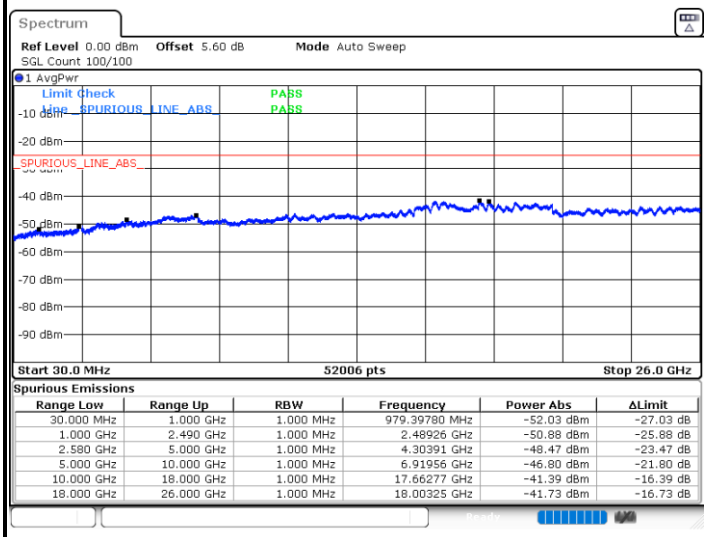
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	979.39780 MHz	-52.03 dBm	-27.03 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.48926 GHz	-50.88 dBm	-25.88 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.30391 GHz	-48.47 dBm	-23.47 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.91956 GHz	-46.80 dBm	-21.80 dB
10.000 GHz	18.000 GHz	1.000 MHz	17.66277 GHz	-41.39 dBm	-16.39 dB
18.000 GHz	26.000 GHz	1.000 MHz	18.00325 GHz	-41.73 dBm	-16.73 dB

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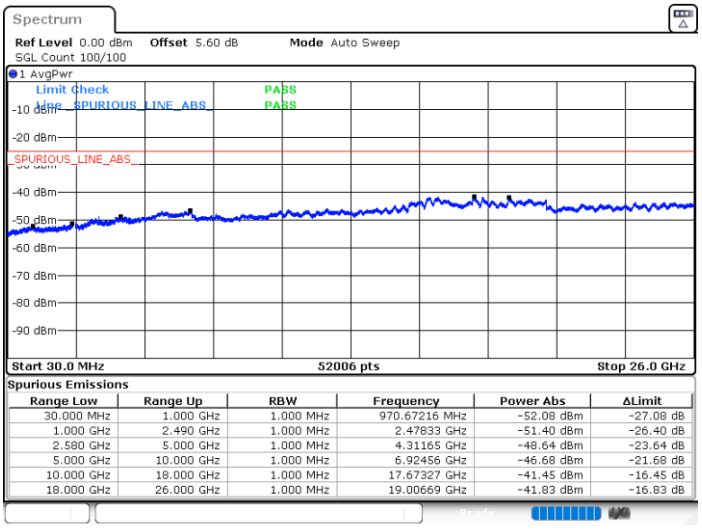
Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	970.67216 MHz	-52.08 dBm	-27.08 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.47833 GHz	-51.40 dBm	-26.40 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.31165 GHz	-48.64 dBm	-23.64 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.92456 GHz	-46.68 dBm	-21.68 dB
10.000 GHz	18.000 GHz	1.000 MHz	17.67327 GHz	-41.45 dBm	-16.45 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.00669 GHz	-41.83 dBm	-16.83 dB

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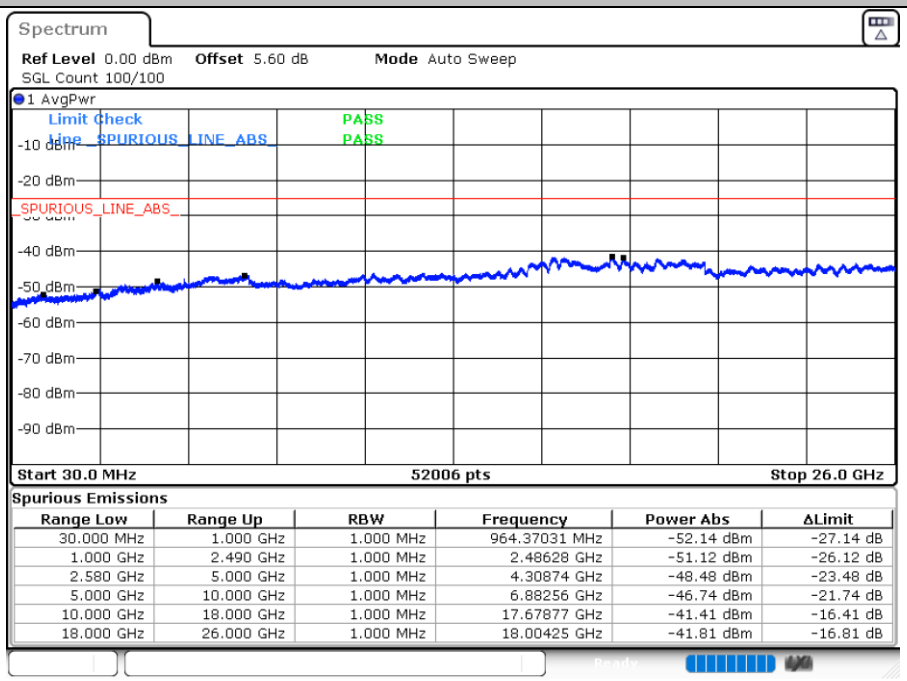
Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	964.37031 MHz	-52.14 dBm	-27.14 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.48628 GHz	-51.12 dBm	-26.12 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.30874 GHz	-48.48 dBm	-23.48 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.88256 GHz	-46.74 dBm	-21.74 dB
10.000 GHz	18.000 GHz	1.000 MHz	17.67877 GHz	-41.41 dBm	-16.41 dB
18.000 GHz	26.000 GHz	1.000 MHz	18.00425 GHz	-41.81 dBm	-16.81 dB

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Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0026	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0009	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0025	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0029	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0008	
20	Battery End Point	0.0025	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.55 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

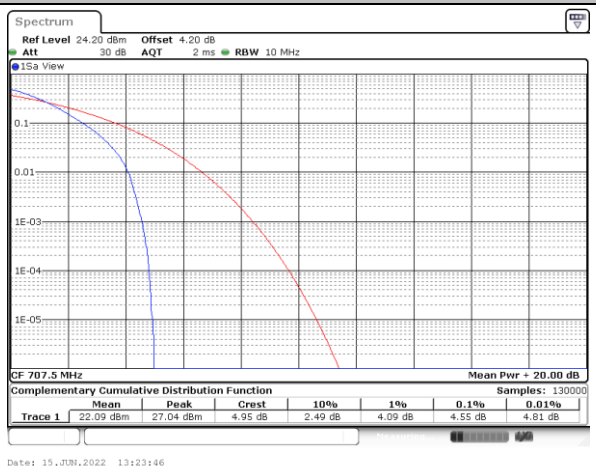
LTE Band 12

Peak-to-Average Ratio

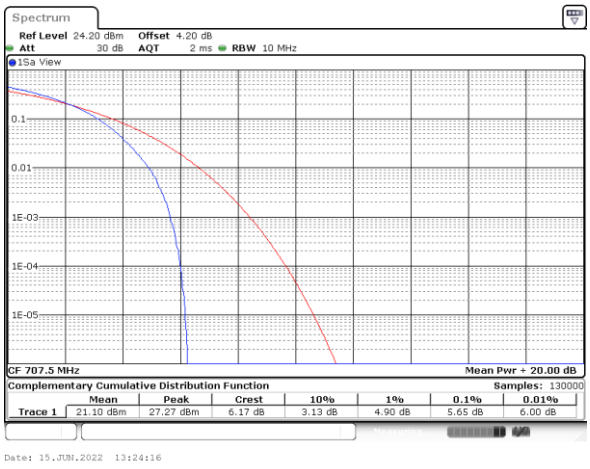
Mode	LTE Band 12 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.55	5.65	5.62	PASS

LTE Band 12 / 10MHz

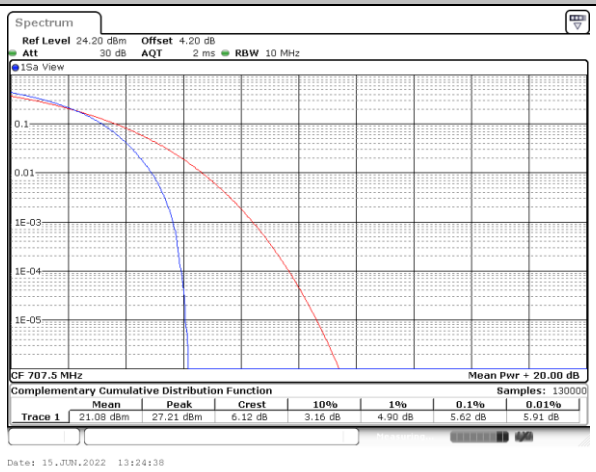
Middle Channel / Full RB/ QPSK



Middle Channel / Full RB/ 16QAM



Middle Channel / Full RB/ 64QAM

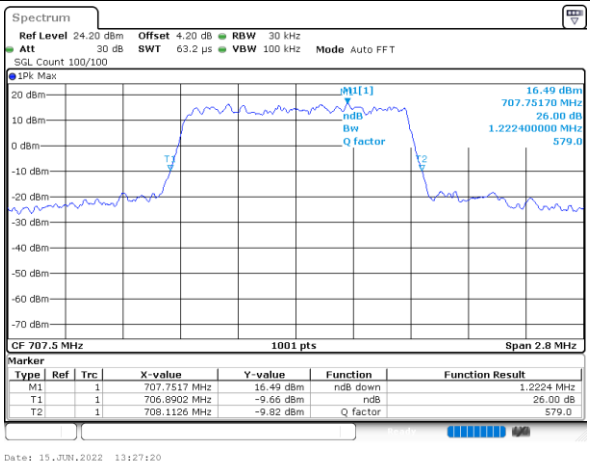


26dB Bandwidth

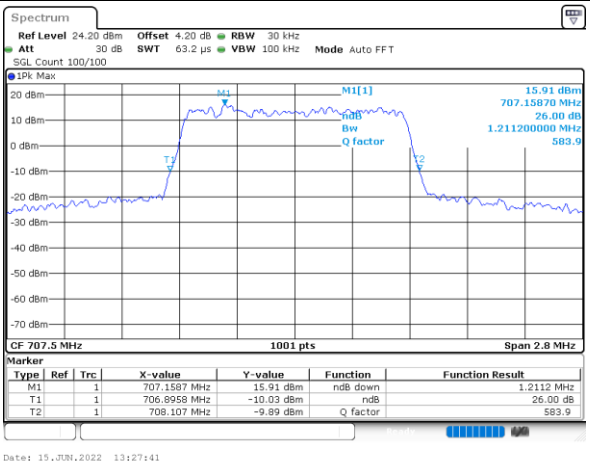
Mode	LTE Band 12 : 26dB BW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.22	1.21	2.98	3.05	4.84	4.91	9.81	9.75

LTE Band 12

Middle Channel / 1.4MHz / QPSK

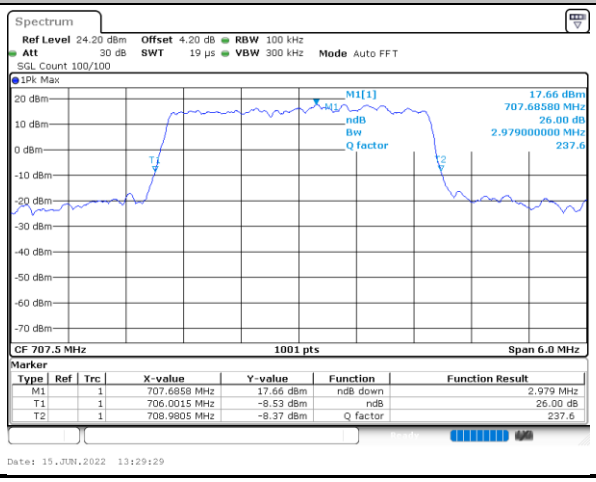


Middle Channel /1.4MHz / 16QAM

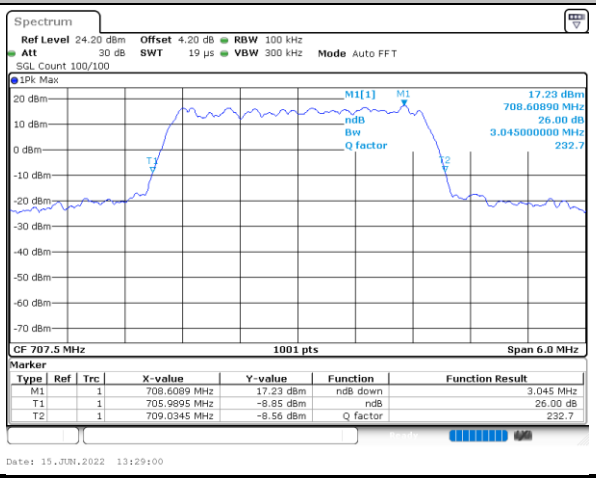


LTE Band 12

Middle Channel / 3MHz / QPSK

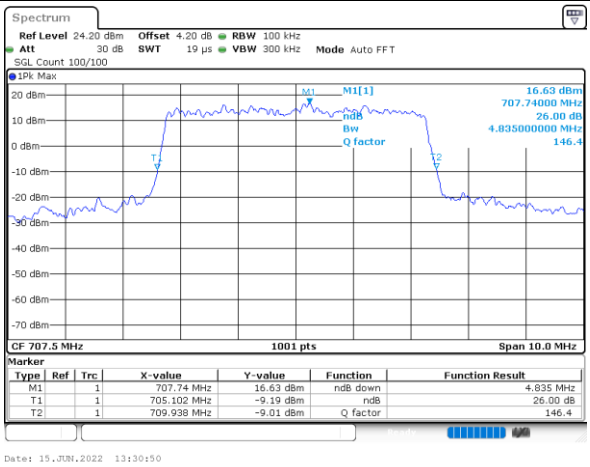


Middle Channel / 3MHz / 16QAM

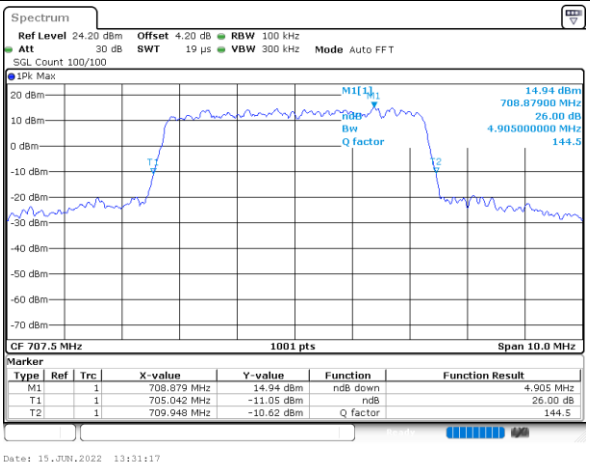


LTE Band 12

Middle Channel / 5MHz / QPSK

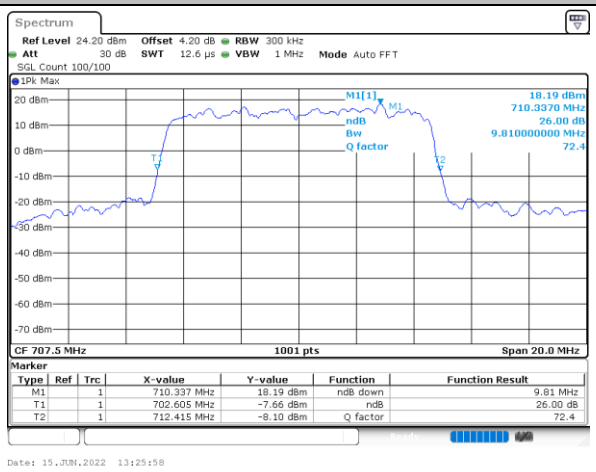


Middle Channel / 5MHz / 16QAM

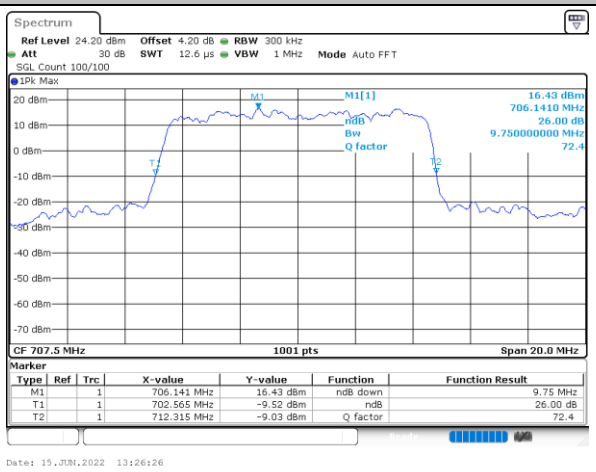


LTE Band 12

Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM

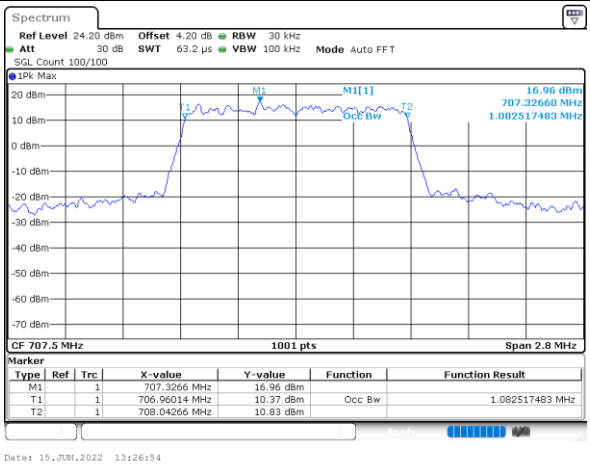


Occupied Bandwidth

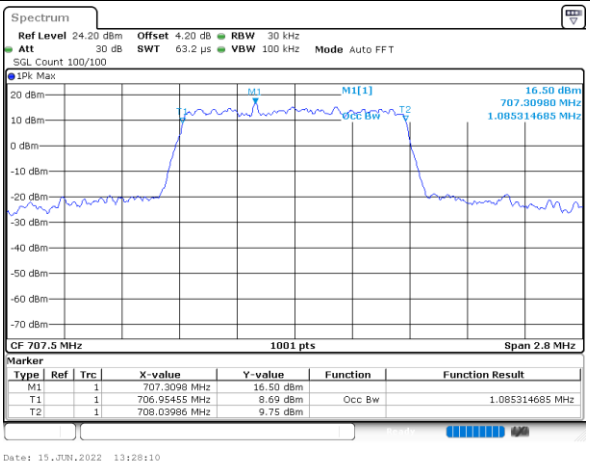
Mode	LTE Band 12 : 99%OBW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.08	1.09	2.72	2.75	4.49	4.51	8.99	8.95

LTE Band 12

Middle Channel / 1.4MHz / QPSK

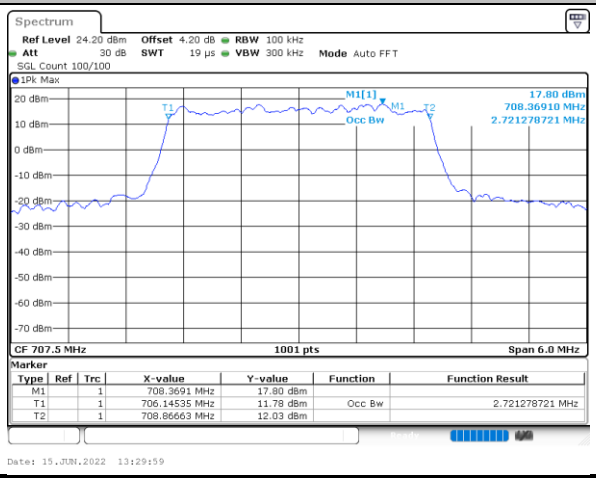
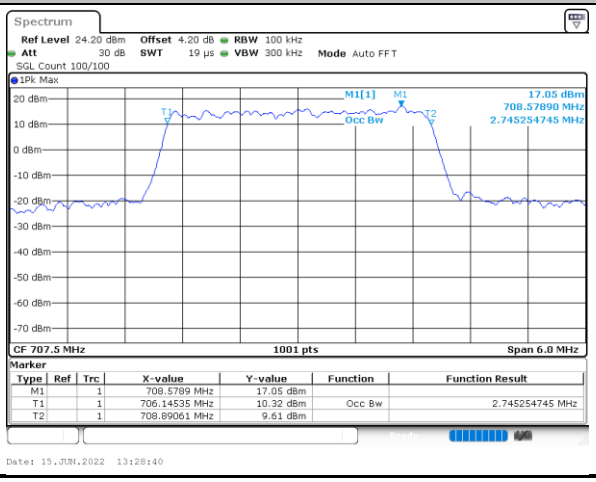


Middle Channel / 1.4MHz / 16QAM



LTE Band 12

Middle Channel / 3MHz / QPSK



Middle Channel / 3MHz / 16QAM