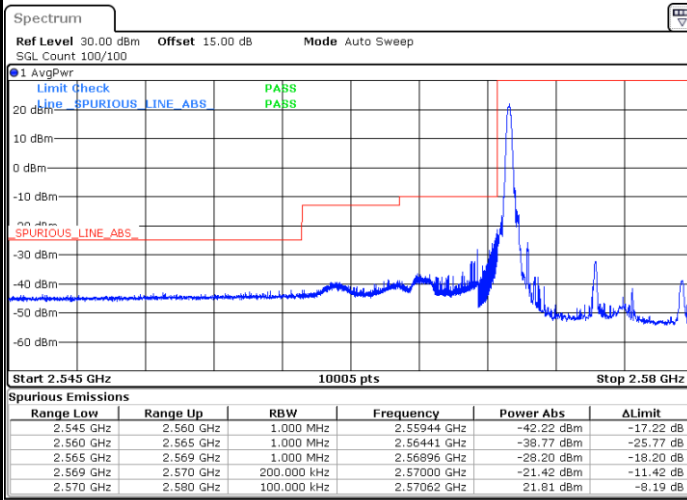




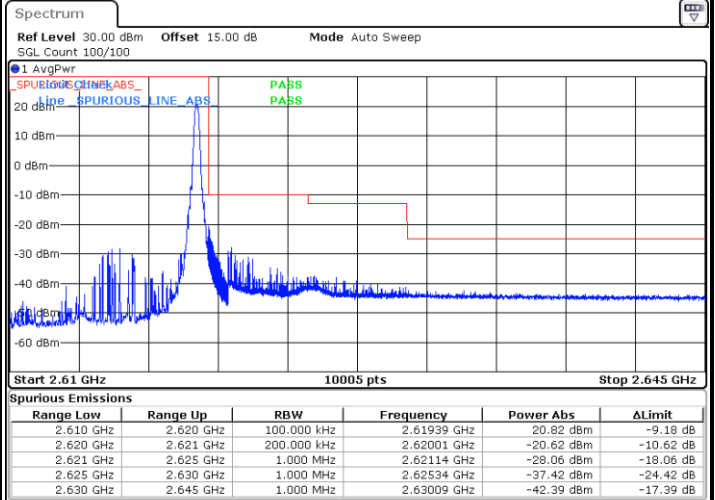
LTE Band 38 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



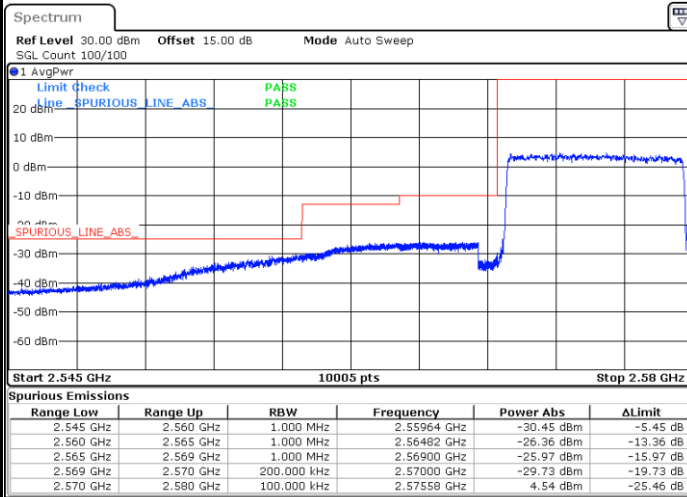
Date: 21.MAY.2020 07:33:54

Highest Band Edge / 1 RB



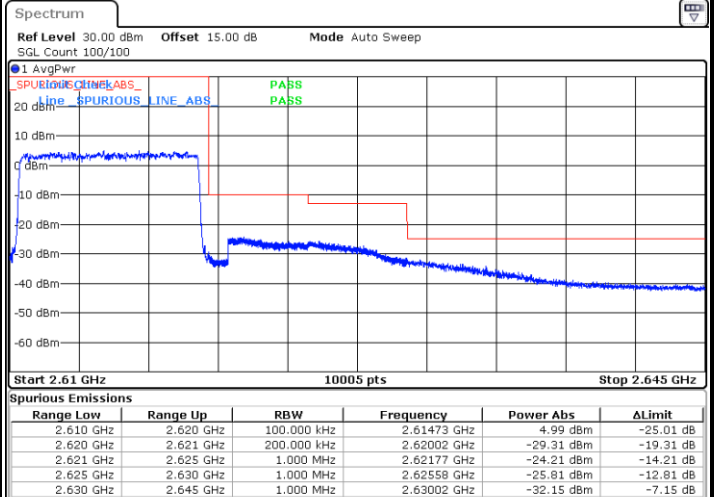
Date: 21.MAY.2020 07:36:59

Lowest Band Edge / Full RB



Date: 21.MAY.2020 07:35:32

Highest Band Edge / Full RB

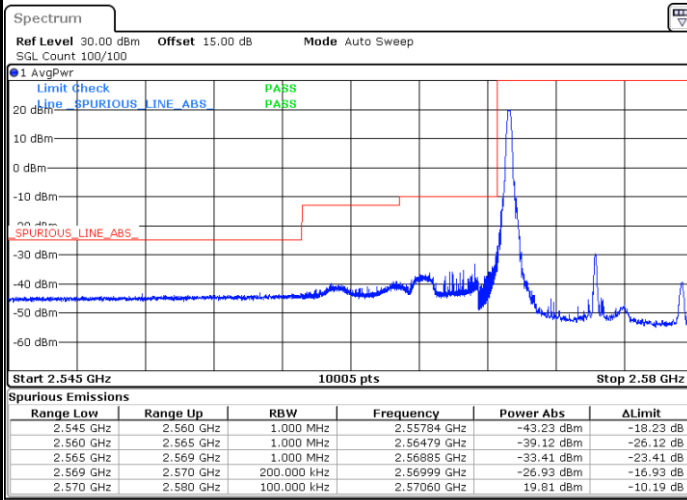


Date: 21.MAY.2020 07:38:39



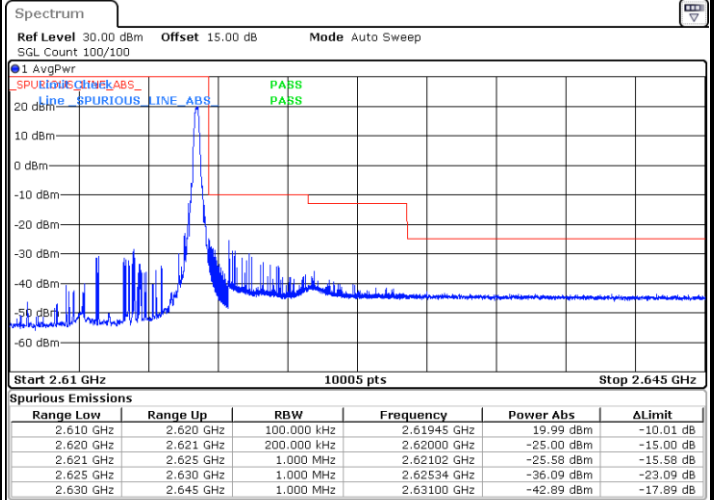
LTE Band 38 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



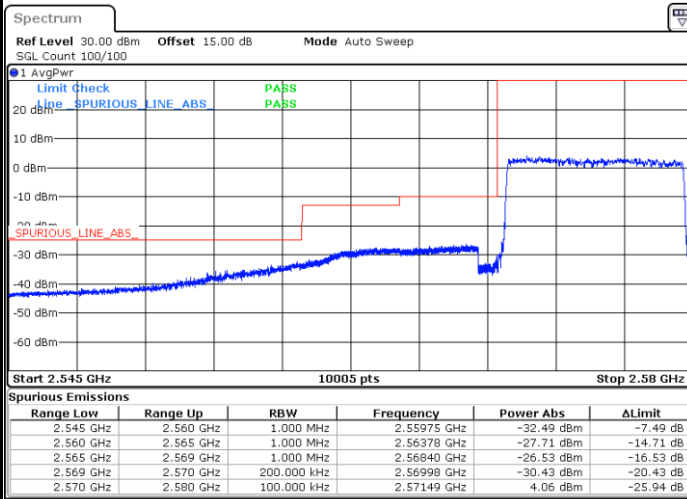
Date: 21.MAY.2020 07:30:03

Highest Band Edge / 1 RB



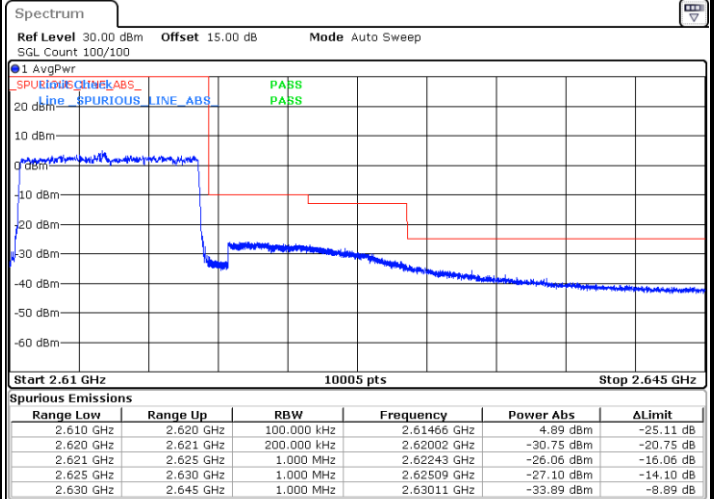
Date: 21.MAY.2020 07:37:31

Lowest Band Edge / Full RB



Date: 21.MAY.2020 07:30:49

Highest Band Edge / Full RB

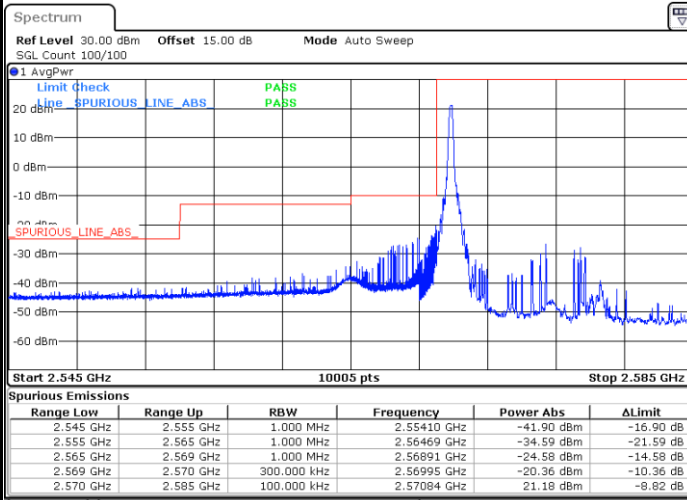


Date: 21.MAY.2020 07:31:35



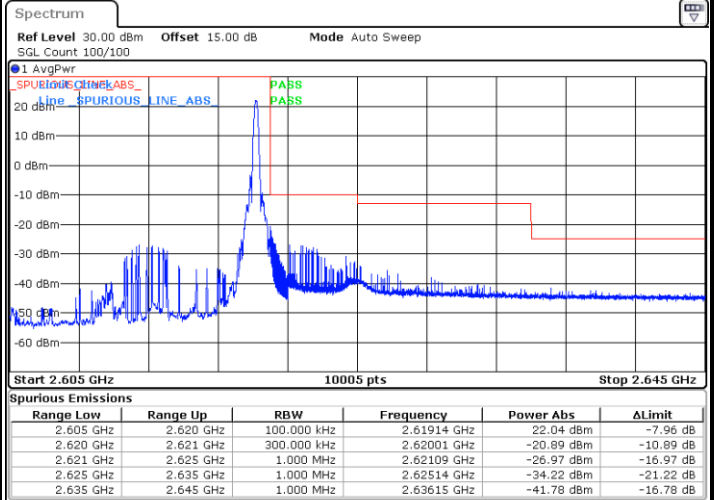
LTE Band 38 / 15MHz / QPSK

Lowest Band Edge / 1 RB



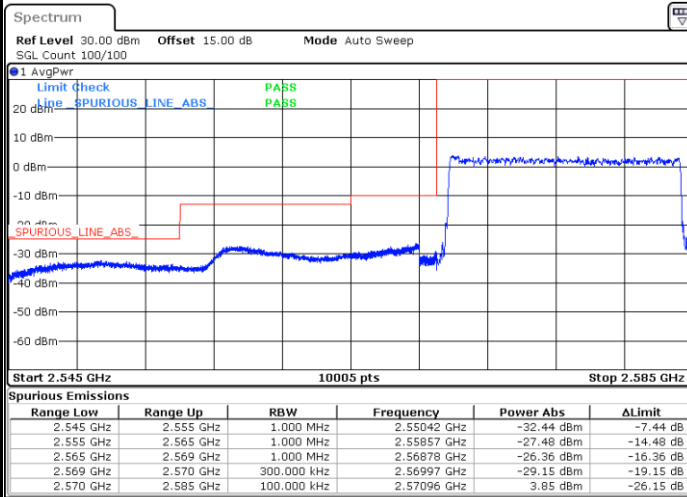
Date: 21.MAY.2020 06:40:31

Highest Band Edge / 1 RB



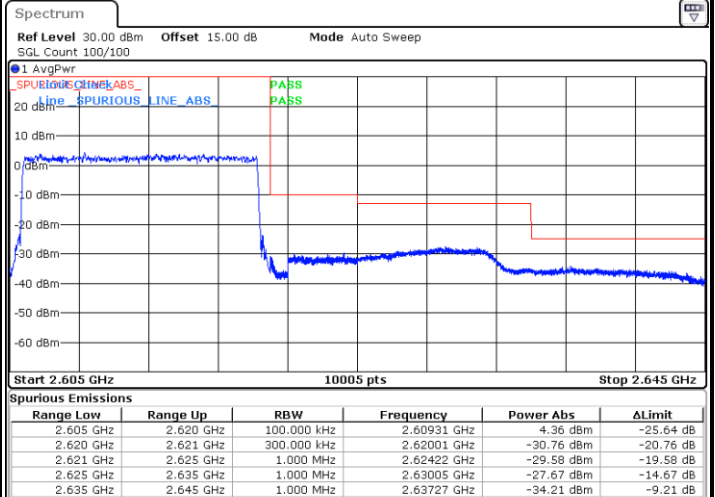
Date: 21.MAY.2020 06:44:39

Lowest Band Edge / Full RB



Date: 21.MAY.2020 06:41:54

Highest Band Edge / Full RB

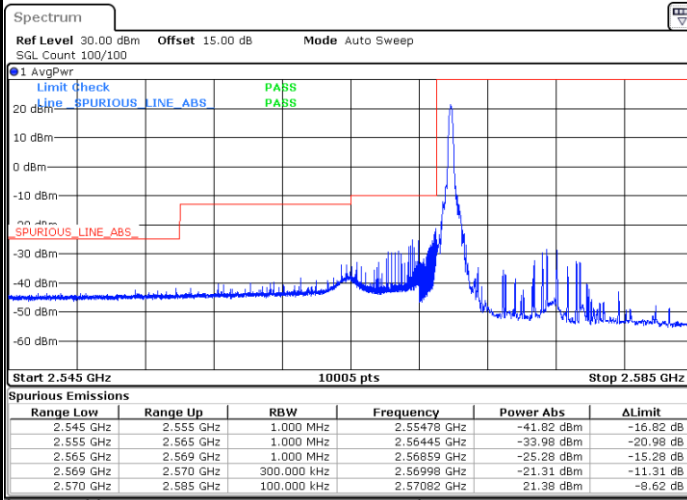


Date: 21.MAY.2020 06:43:17



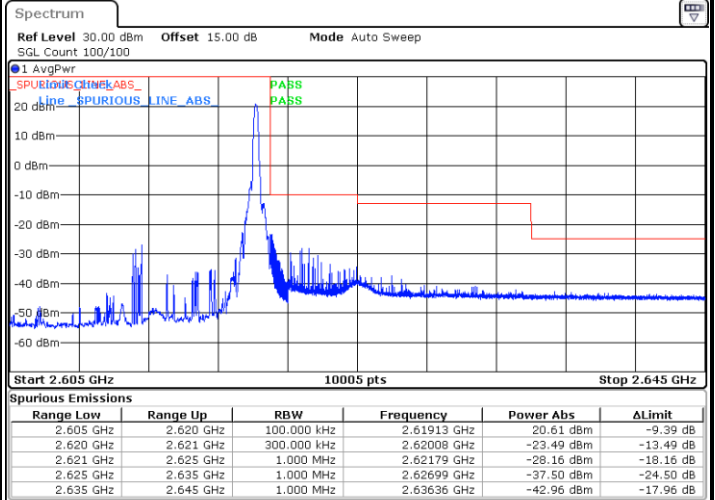
LTE Band 38 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



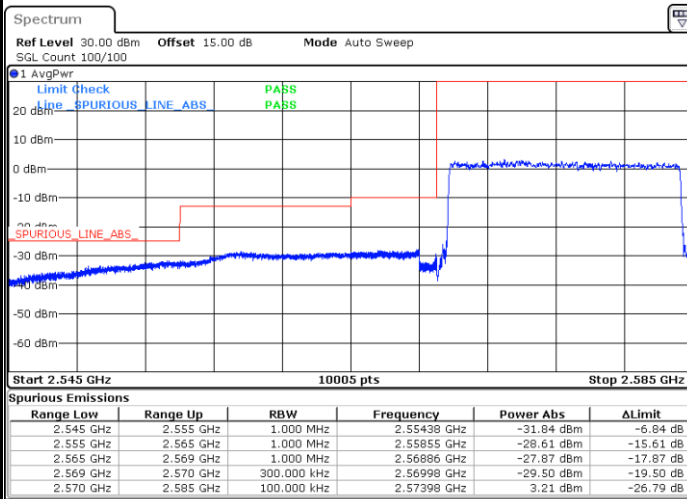
Date: 21.MAY.2020 06:41:13

Highest Band Edge / 1 RB



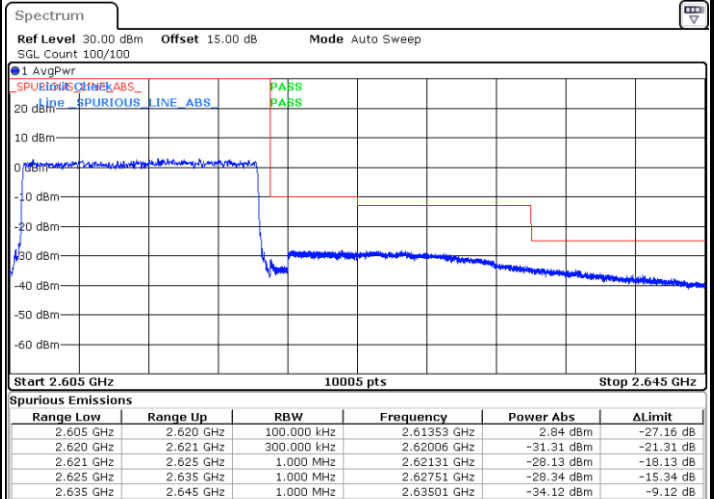
Date: 21.MAY.2020 06:45:21

Lowest Band Edge / Full RB



Date: 21.MAY.2020 06:42:36

Highest Band Edge / Full RB

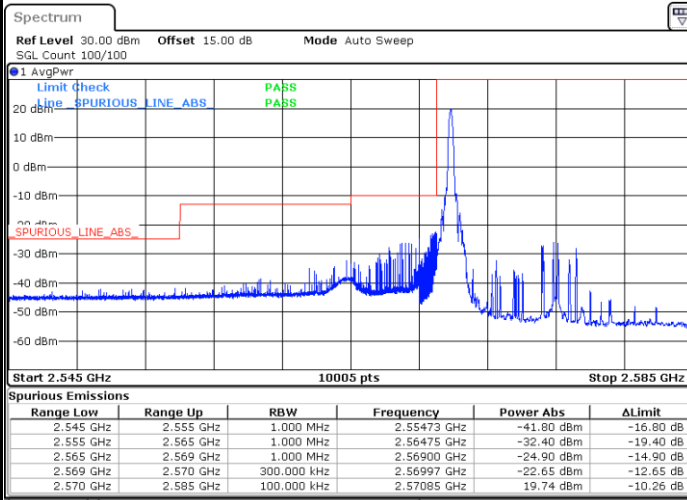


Date: 21.MAY.2020 06:43:58



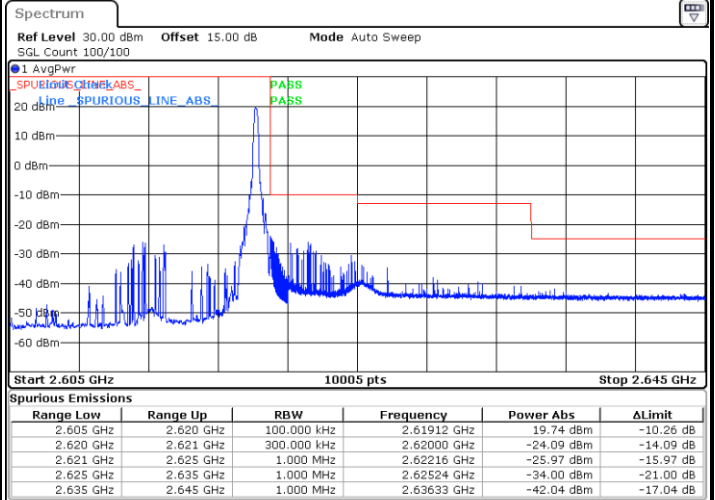
LTE Band 38 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



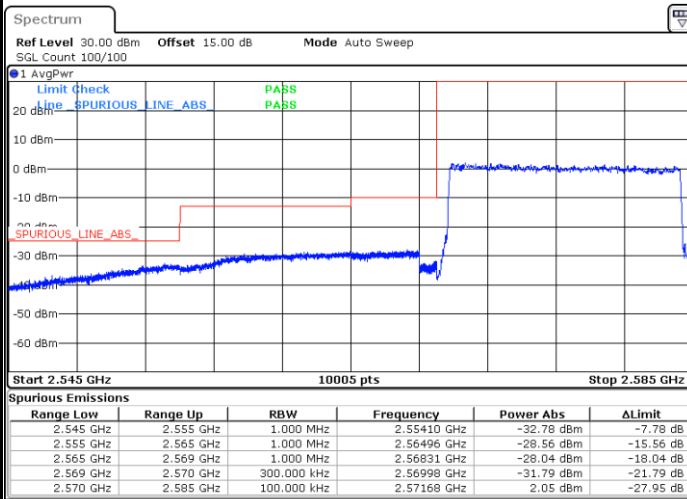
Date: 21.MAY.2020 06:46:02

Highest Band Edge / 1 RB



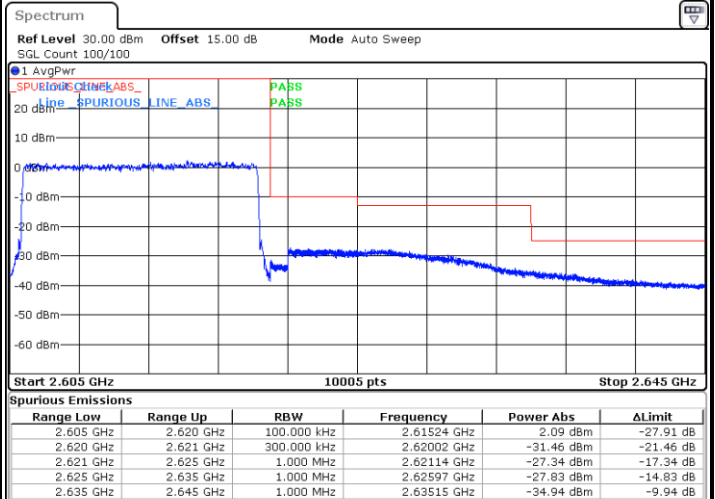
Date: 21.MAY.2020 06:48:07

Lowest Band Edge / Full RB



Date: 21.MAY.2020 06:46:44

Highest Band Edge / Full RB

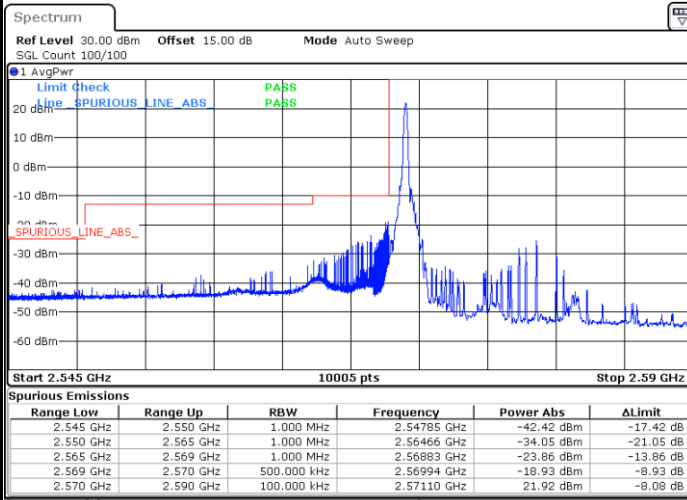


Date: 21.MAY.2020 06:47:25



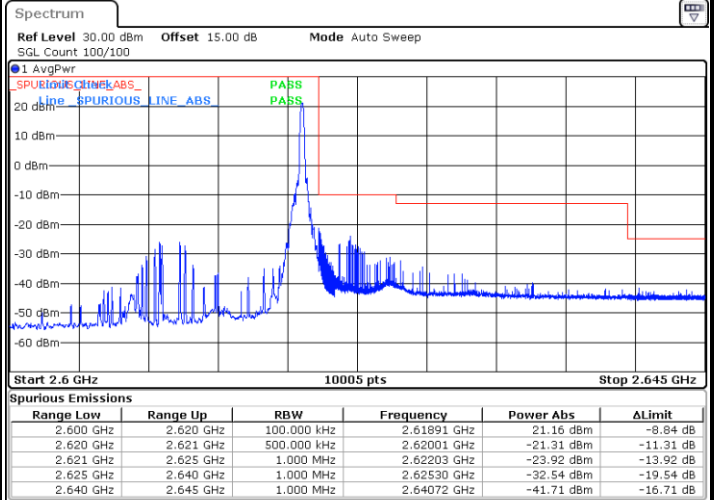
LTE Band 38 / 20MHz / QPSK

Lowest Band Edge / 1 RB



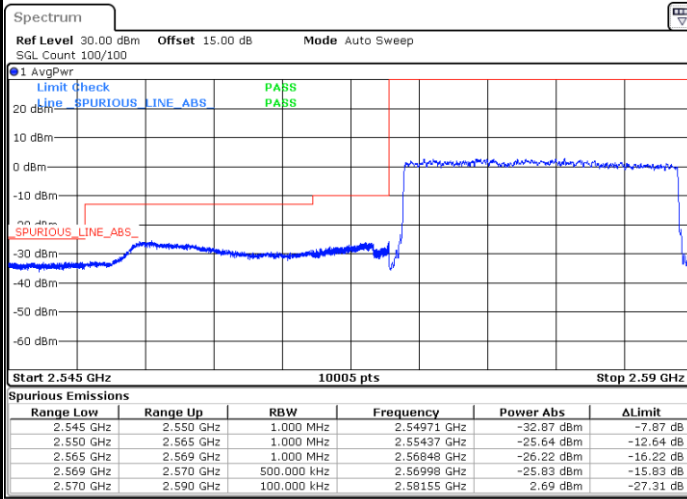
Date: 21.MAY.2020 06:48:49

Highest Band Edge / 1 RB



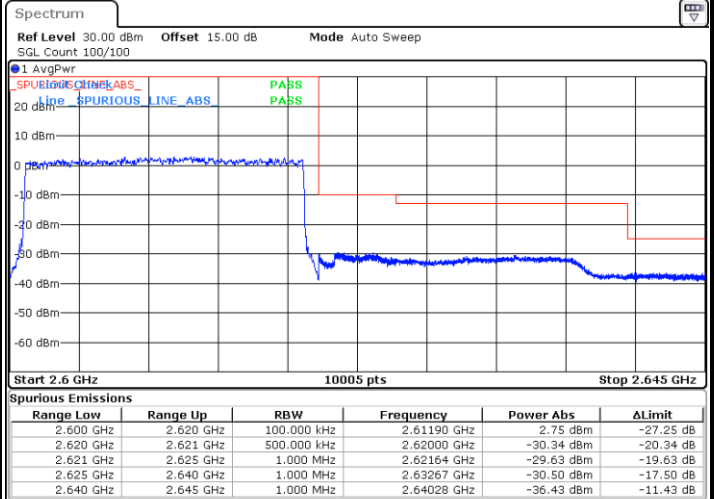
Date: 21.MAY.2020 06:52:57

Lowest Band Edge / Full RB



Date: 21.MAY.2020 06:50:12

Highest Band Edge / Full RB

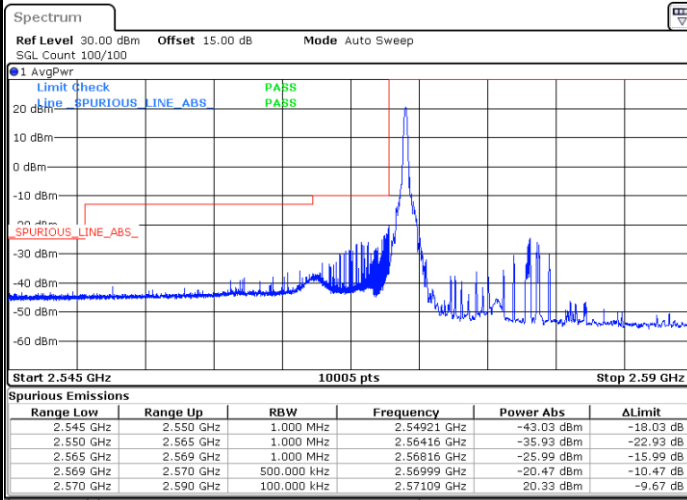


Date: 21.MAY.2020 06:51:35



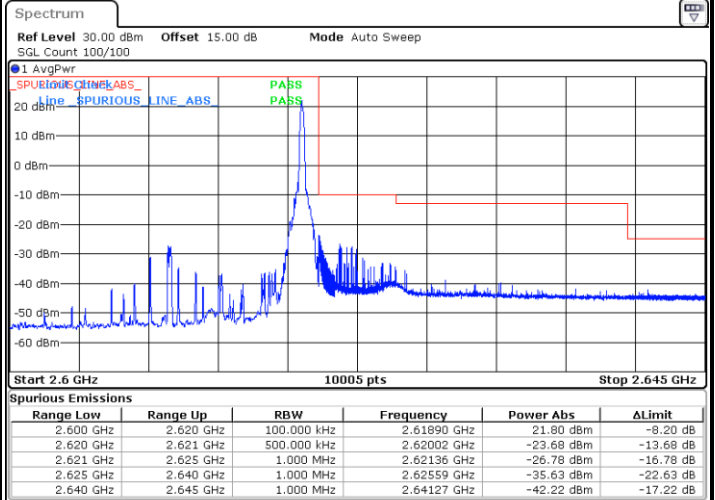
LTE Band 38 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



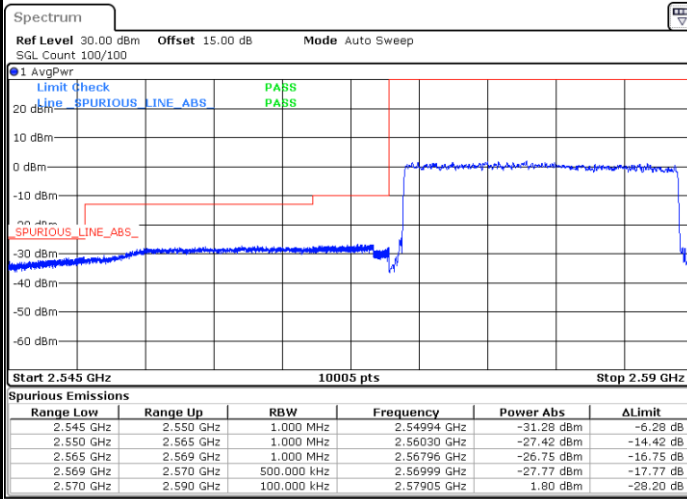
Date: 21.MAY.2020 06:49:31

Highest Band Edge / 1 RB



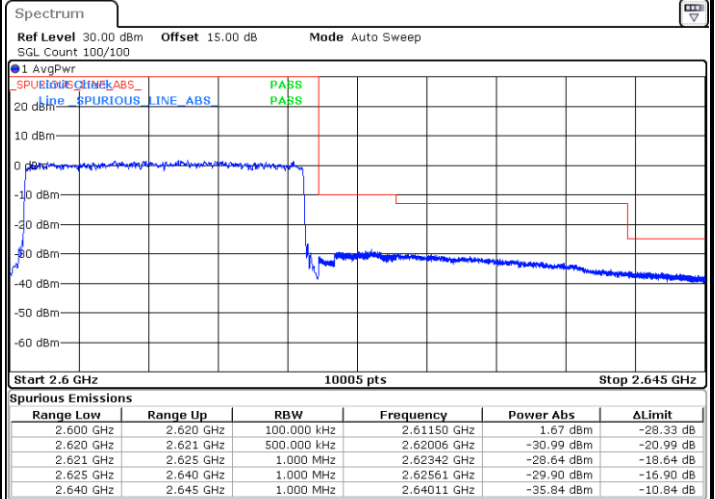
Date: 21.MAY.2020 06:53:38

Lowest Band Edge / Full RB



Date: 21.MAY.2020 06:50:53

Highest Band Edge / Full RB

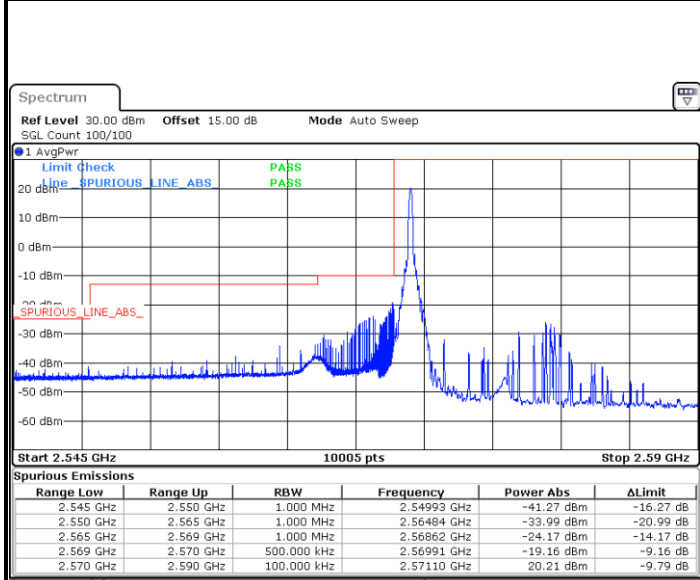


Date: 21.MAY.2020 06:52:16



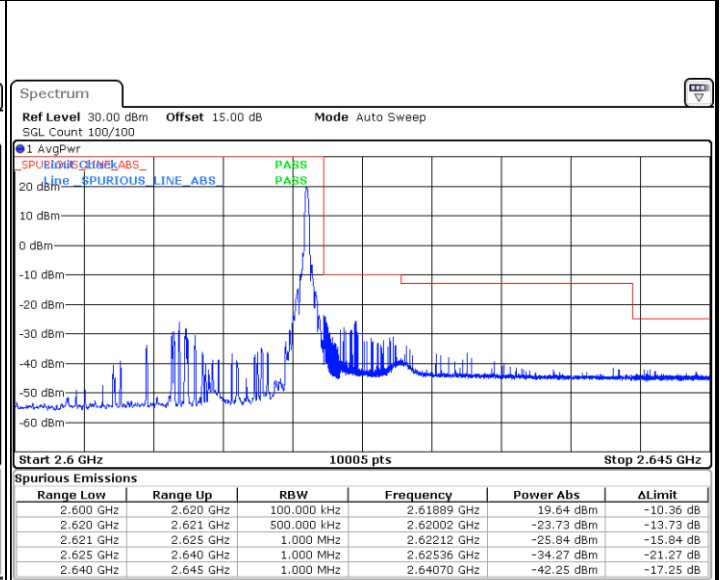
LTE Band 38 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



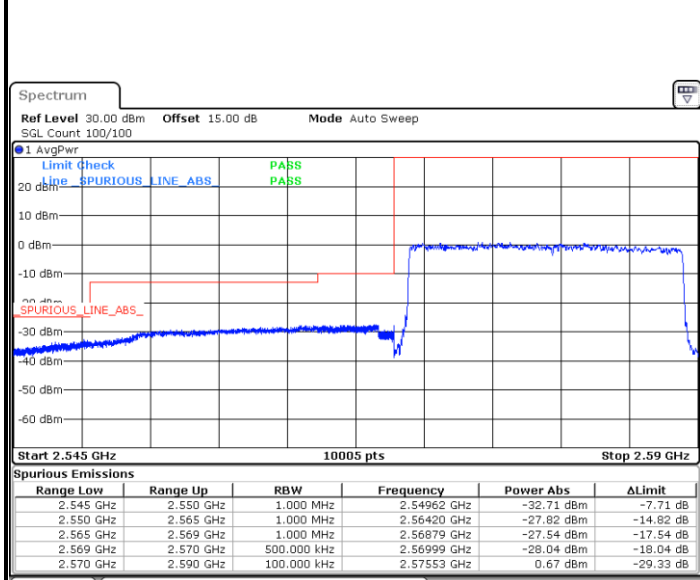
Date: 21.MAY.2020 06:54:20

Highest Band Edge / 1 RB



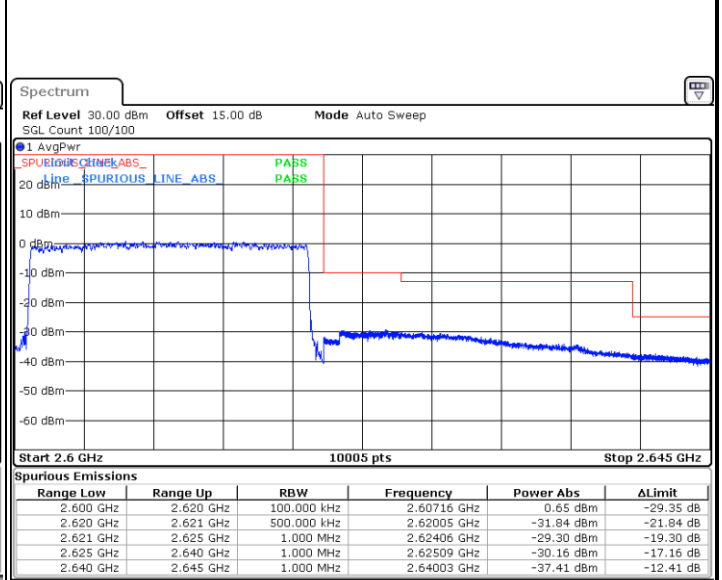
Date: 21.MAY.2020 06:56:23

Lowest Band Edge / Full RB



Date: 21.MAY.2020 06:55:01

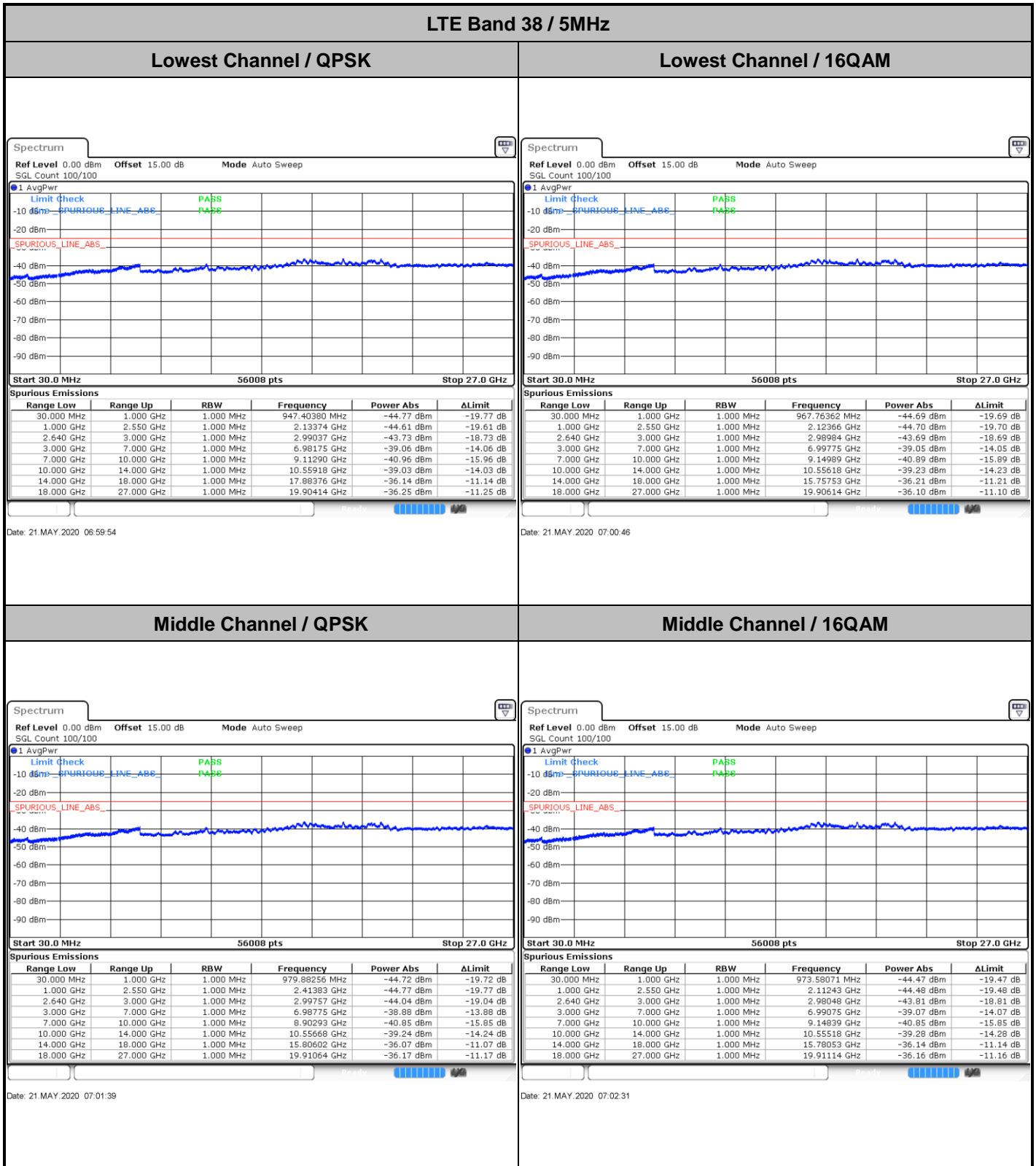
Highest Band Edge / Full RB



Date: 21.MAY.2020 06:55:42



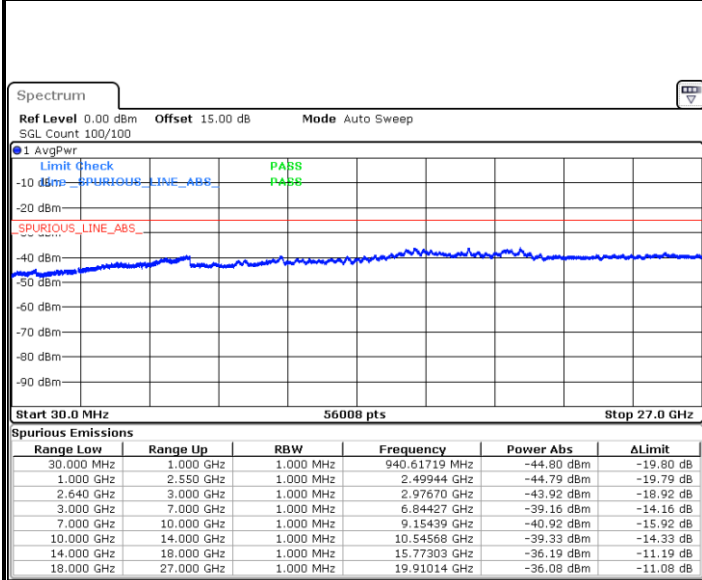
Conducted Spurious Emission





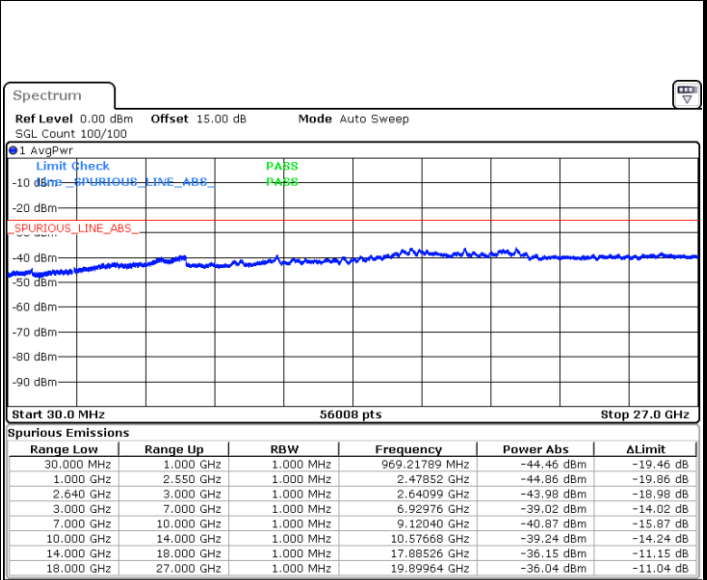
LTE Band 38 / 5MHz

Highest Channel / QPSK



Date: 21.MAY.2020 07:03:23

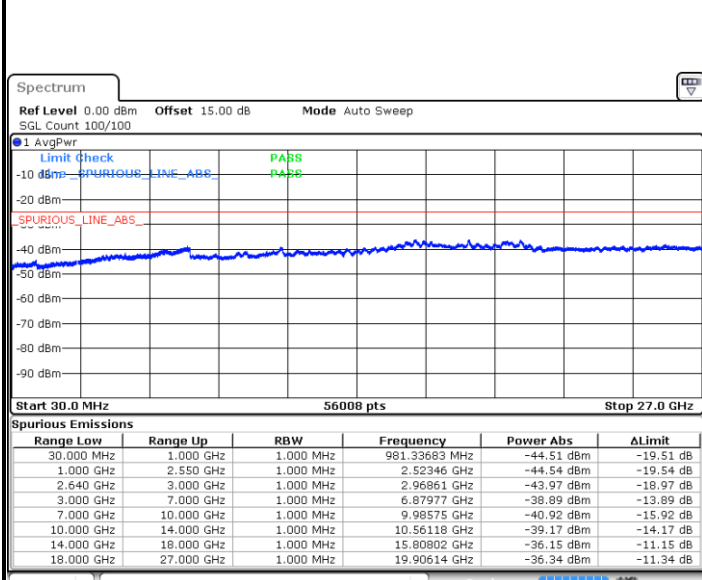
Highest Channel / 16QAM



Date: 21.MAY.2020 07:04:16

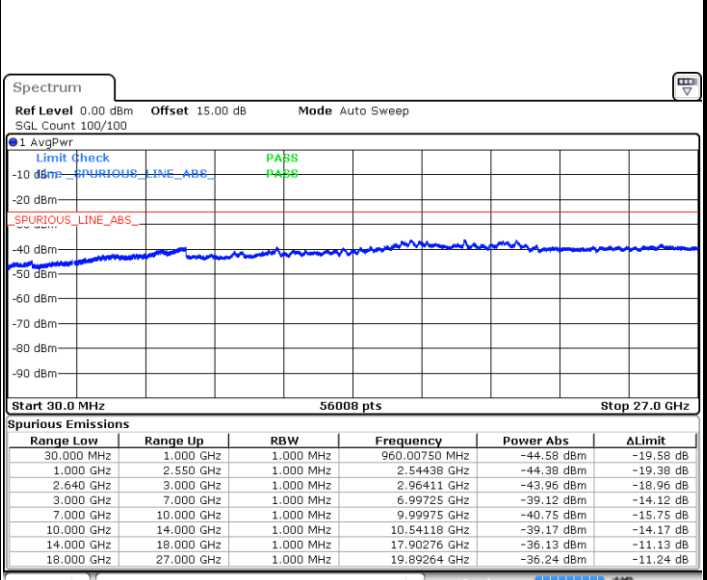
LTE Band 38 / 10MHz

Lowest Channel / QPSK



Date: 21.MAY.2020 07:07:47

Lowest Channel / 16QAM



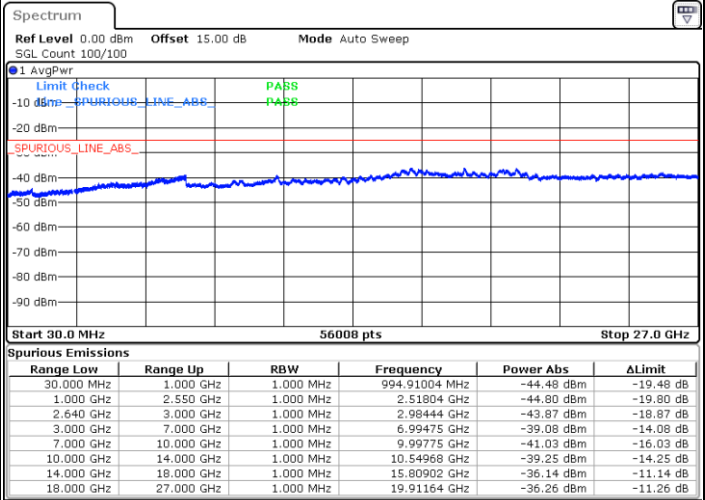
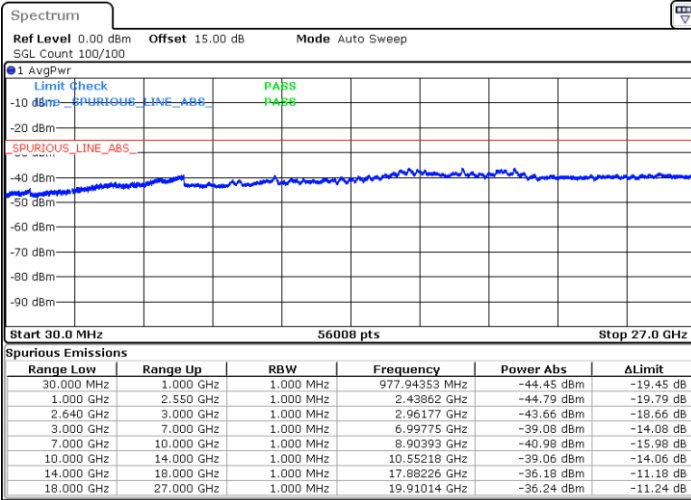
Date: 21.MAY.2020 07:08:39



LTE Band 38 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

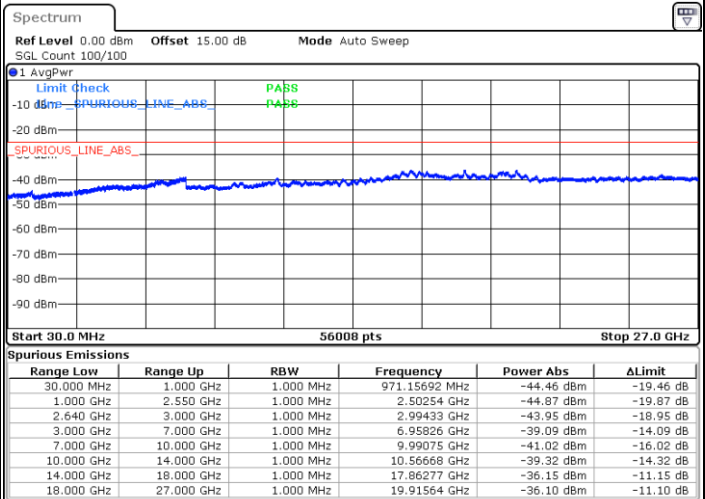
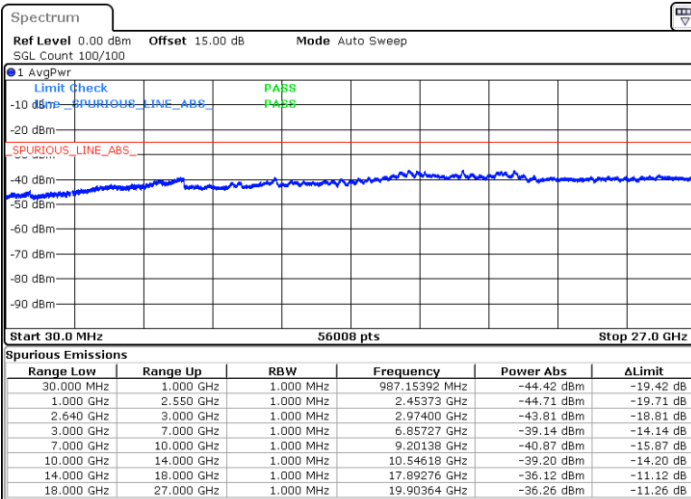


Date: 21.MAY.2020 07:09:32

Date: 21.MAY.2020 07:10:23

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 21.MAY.2020 07:11:15

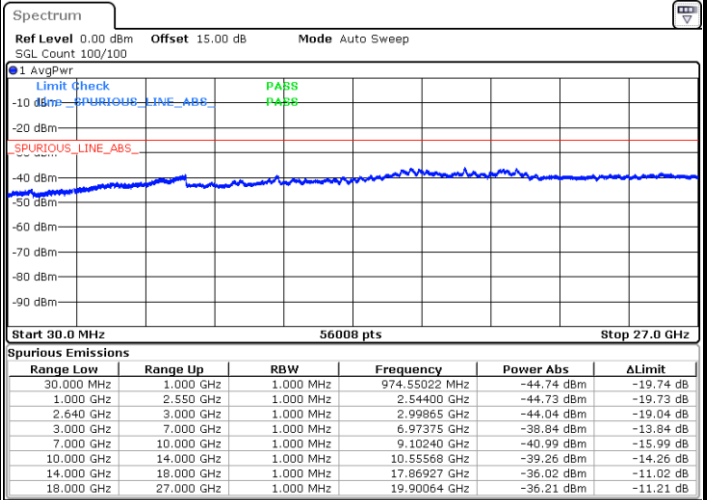
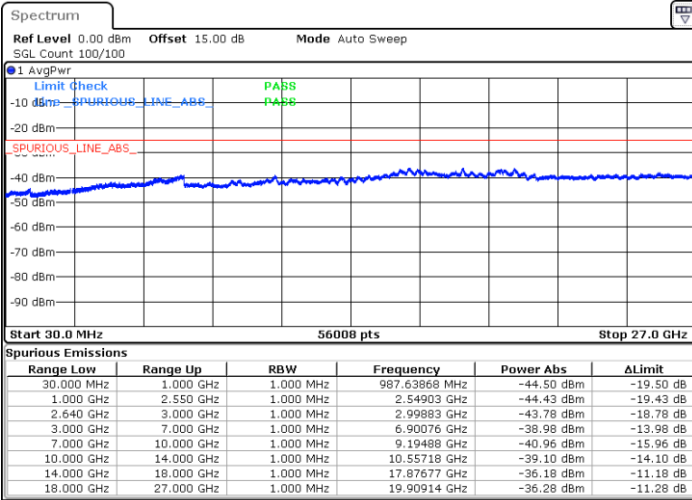
Date: 21.MAY.2020 07:12:08



LTE Band 38 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

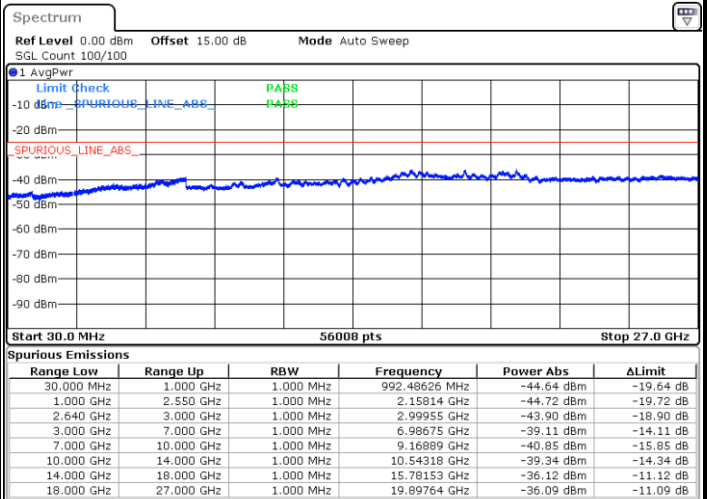
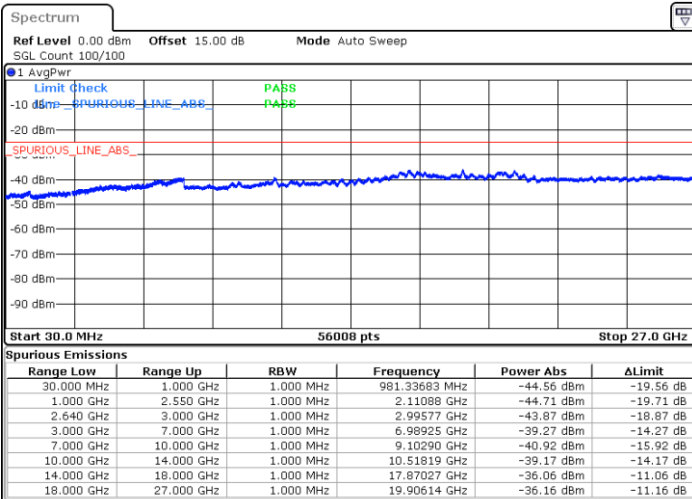


Date: 21.MAY.2020 07:13:02

Date: 21.MAY.2020 07:13:55

Middle Channel / QPSK

Middle Channel / 16QAM



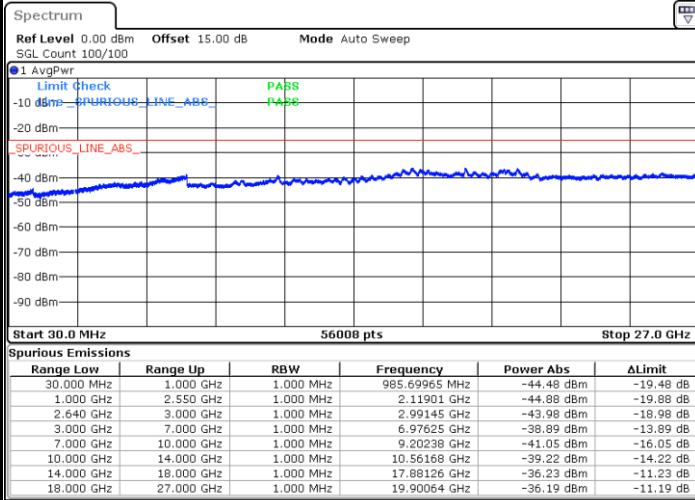
Date: 21.MAY.2020 07:14:47

Date: 21.MAY.2020 07:15:39



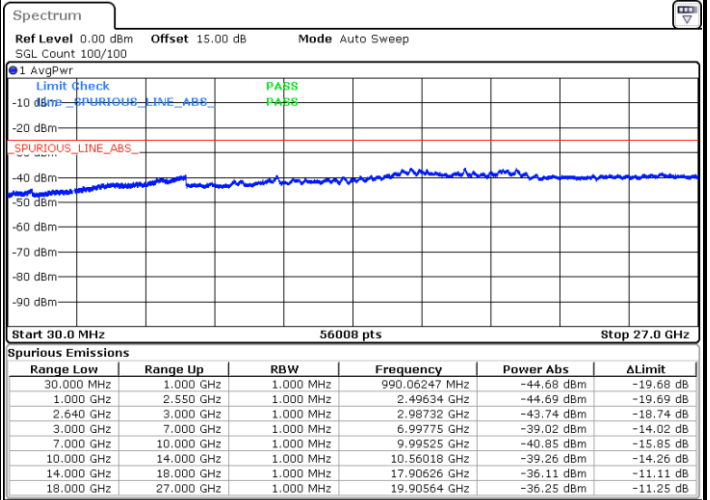
LTE Band 38 / 15MHz

Highest Channel / QPSK



Date: 21.MAY.2020 07:16:31

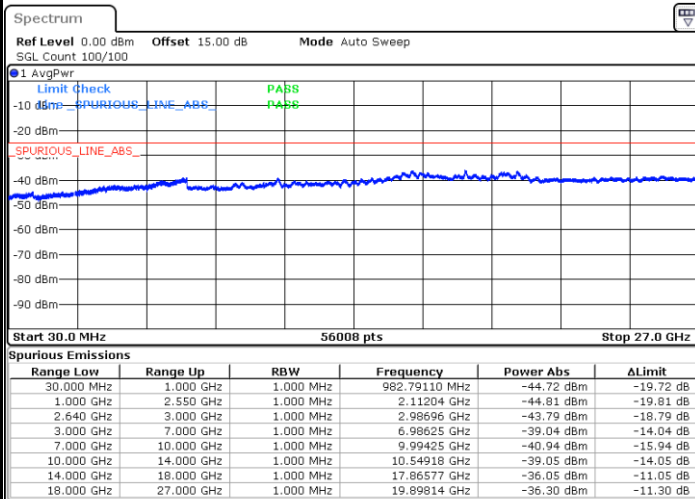
Highest Channel / 16QAM



Date: 21.MAY.2020 07:17:23

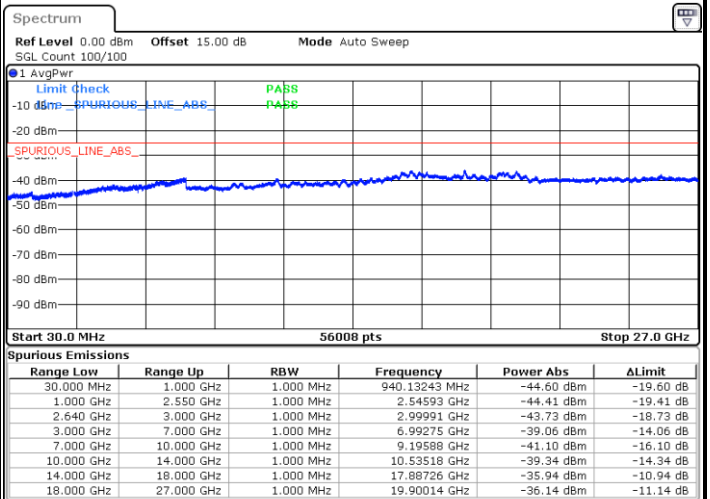
LTE Band 38 / 20MHz

Lowest Channel / QPSK



Date: 21.MAY.2020 07:20:54

Lowest Channel / 16QAM



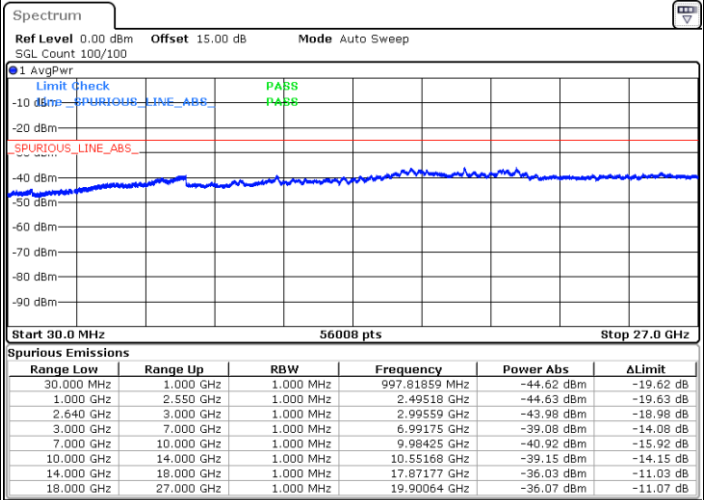
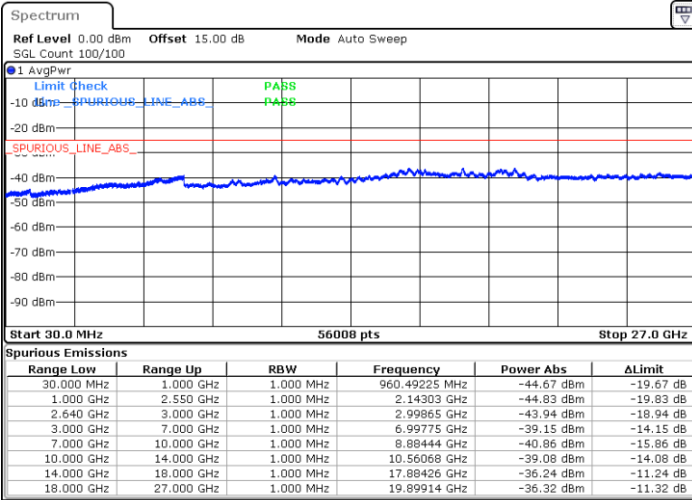
Date: 21.MAY.2020 07:21:46



LTE Band 38 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

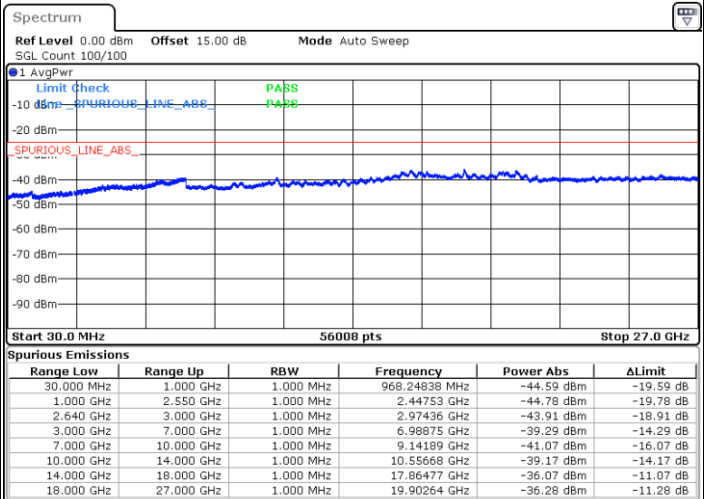
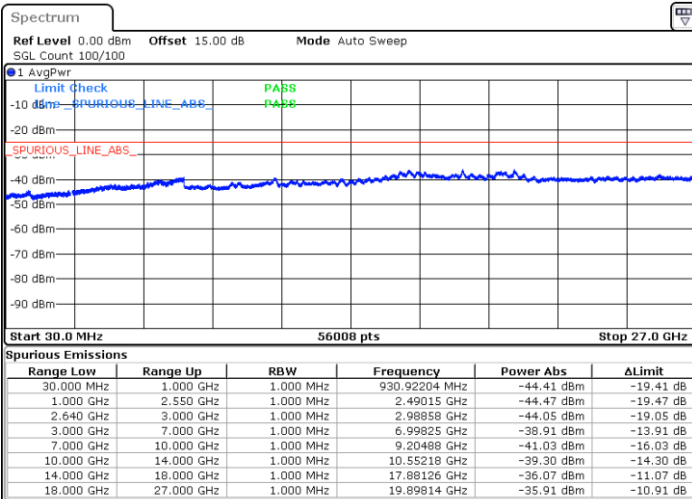


Date: 21.MAY.2020 07:22:39

Date: 21.MAY.2020 07:23:31

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 21.MAY.2020 07:24:23

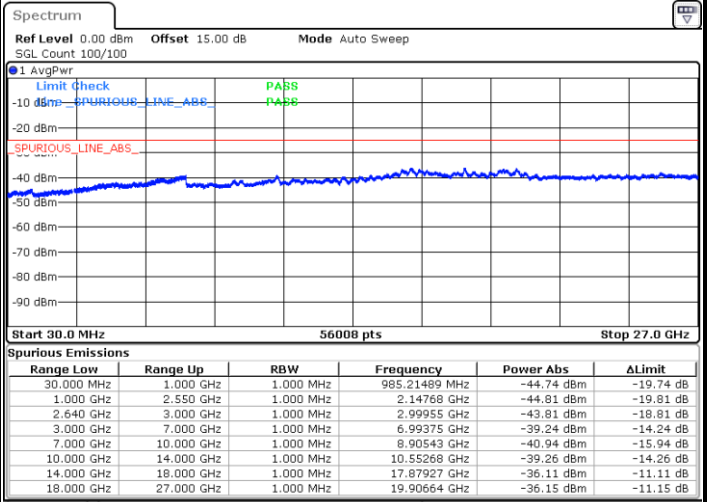
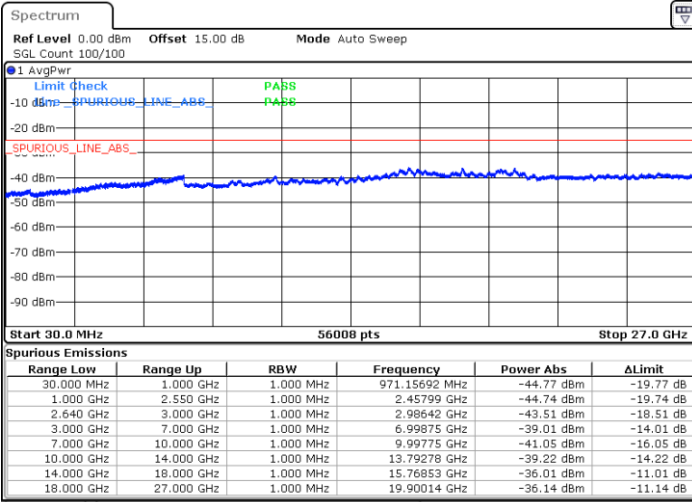
Date: 21.MAY.2020 07:25:16



LTE Band 38 / 5MHz

Lowest Channel / 64QAM

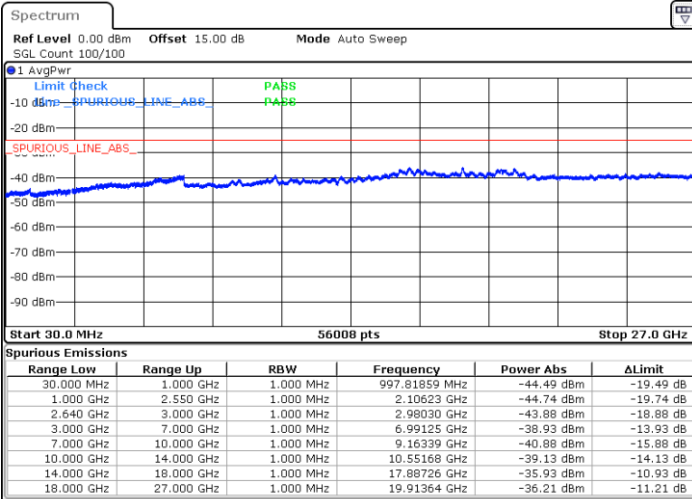
Middle Channel / 64QAM



Date: 21.MAY.2020 06:57:17

Date: 21.MAY.2020 06:58:09

Highest Channel / 64QAM



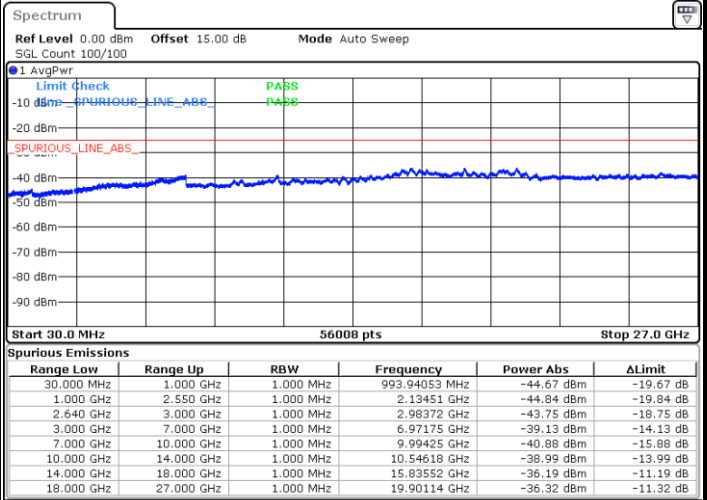
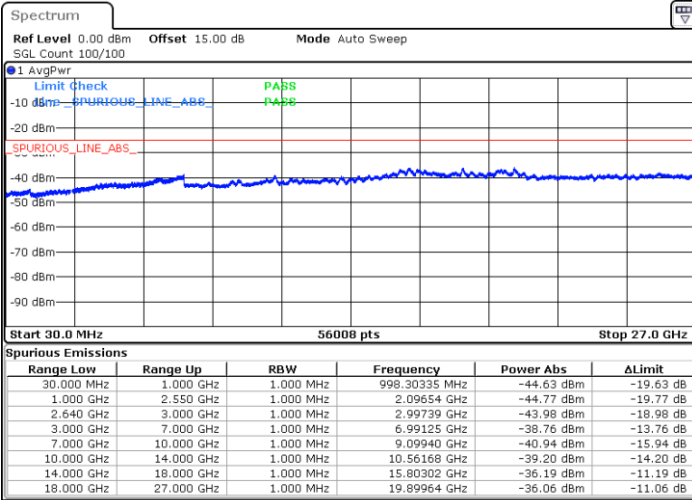
Date: 21.MAY.2020 06:59:01



LTE Band 38 / 10MHz

Lowest Channel / 64QAM

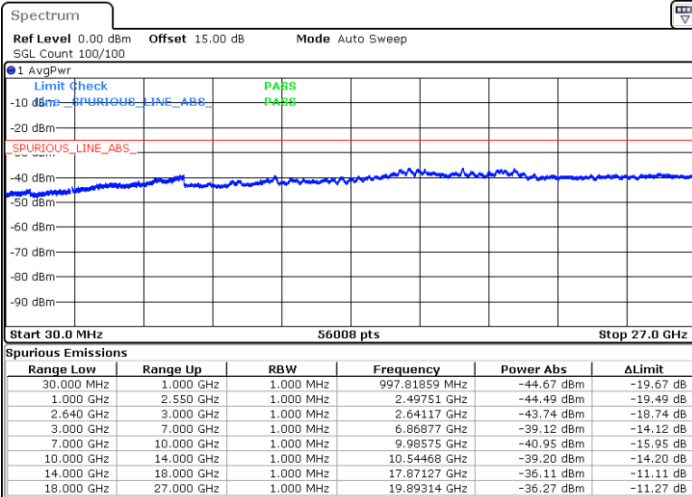
Middle Channel / 64QAM



Date: 21.MAY.2020 07:05:10

Date: 21.MAY.2020 07:06:02

Highest Channel / 64QAM



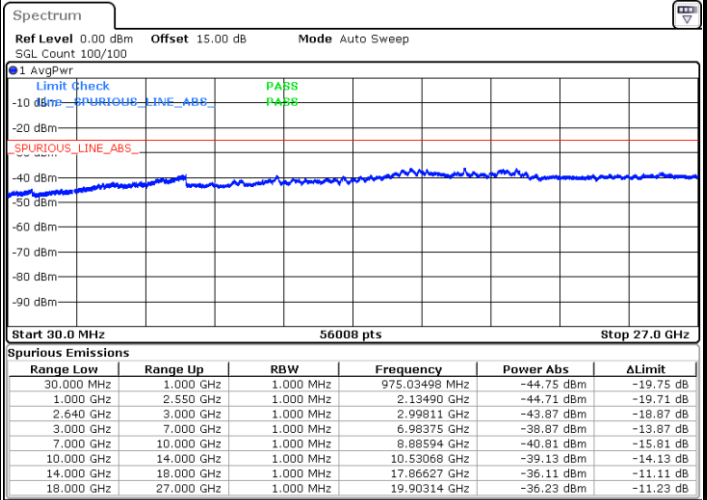
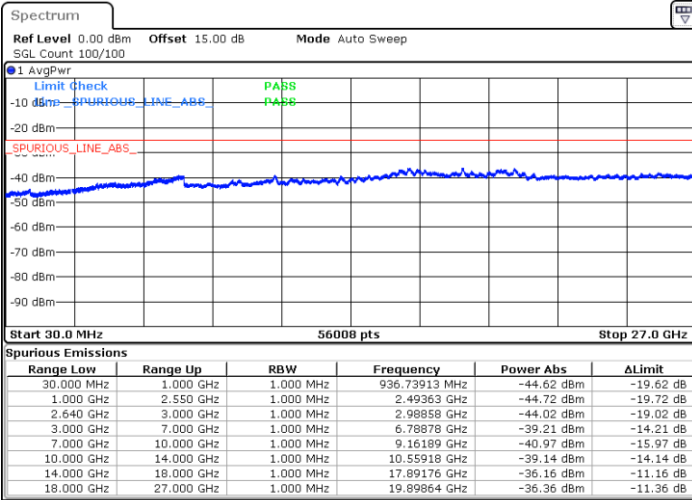
Date: 21.MAY.2020 07:06:54



LTE Band 38 / 15MHz

Lowest Channel / 64QAM

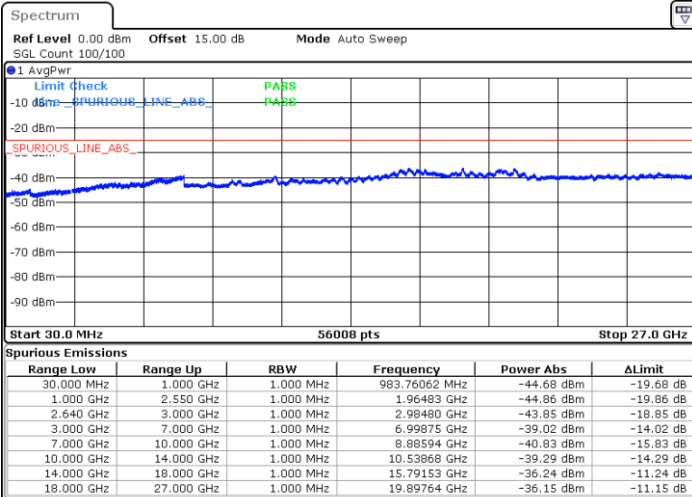
Middle Channel / 64QAM



Date: 21.MAY.2020 07:18:16

Date: 21.MAY.2020 07:19:08

Highest Channel / 64QAM



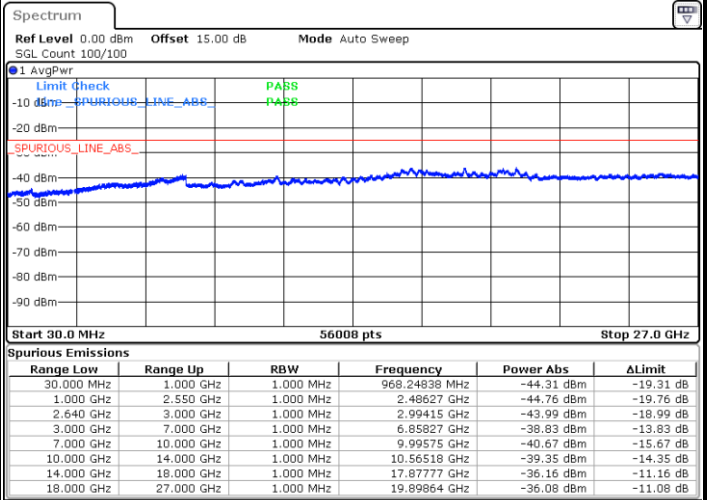
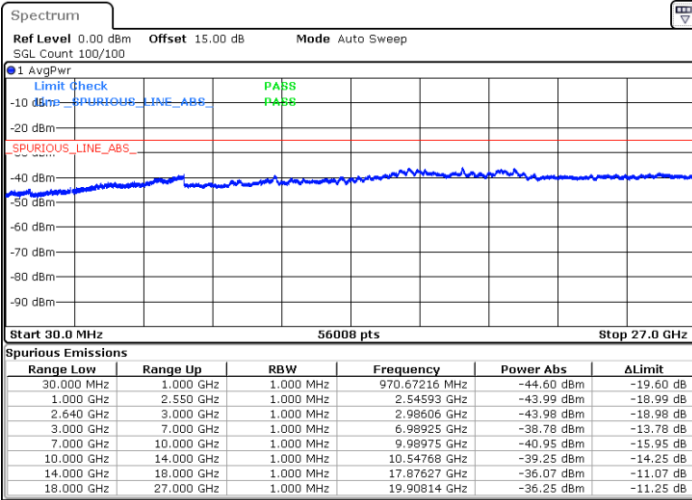
Date: 21.MAY.2020 07:20:00



LTE Band 38 / 20MHz

Lowest Channel / 64QAM

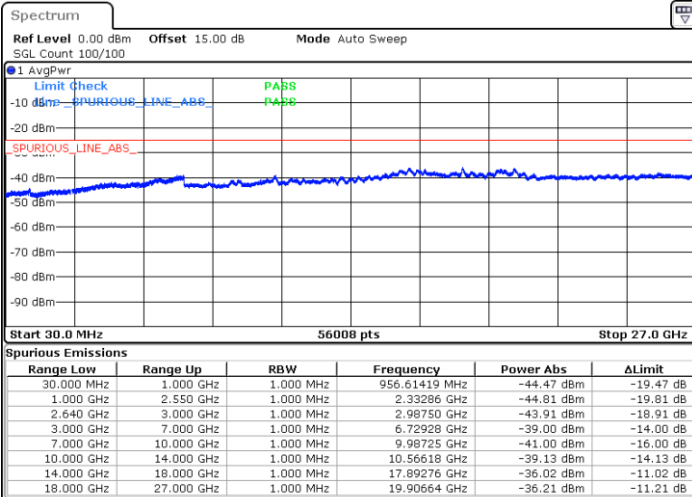
Middle Channel / 64QAM



Date: 21.MAY.2020 07:26:08

Date: 21.MAY.2020 07:27:00

Highest Channel / 64QAM



Date: 21.MAY.2020 07:27:52



Frequency Stability

| Test Conditions | | LTE Band 38 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0026 | PASS |
| 40 | Normal Voltage | 0.0055 | |
| 30 | Normal Voltage | 0.0058 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0017 | |
| 0 | Normal Voltage | 0.0028 | |
| -10 | Normal Voltage | 0.0037 | |
| -20 | Normal Voltage | 0.0030 | |
| -30 | Normal Voltage | 0.0044 | |
| 20 | Maximum Voltage | 0.0003 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0011 | |

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.49 V. ; Maximum Voltage =4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 38_HPUE

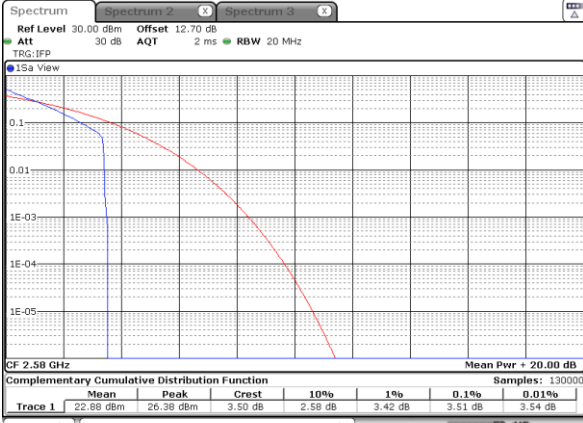
Peak-to-Average Ratio

| Mode | LTE Band 38 / 20MHz | | | | |
|------------|---------------------|---------|-------|---------|-------------|
| Mod. | QPSK | | 16QAM | | Limit: 13dB |
| RB Size | 1RB | Full RB | 1RB | Full RB | Result |
| Lowest CH | 3.51 | 5.07 | 5.57 | 6.03 | PASS |
| Middle CH | 3.57 | 5.01 | 5.22 | 5.97 | |
| Highest CH | 3.48 | 5.01 | 5.48 | 6.00 | |
| Mode | LTE Band 38 / 20MHz | | | | |
| Mod. | 64QAM | | | | Limit: 13dB |
| RB Size | 1RB | Full RB | | | Result |
| Lowest CH | 6.46 | 6.55 | - | - | PASS |
| Middle CH | 6.55 | 6.55 | - | - | |
| Highest CH | 6.70 | 6.49 | - | - | |



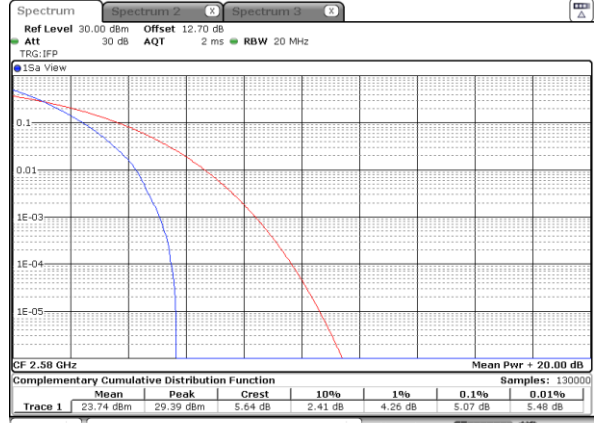
LTE Band 38 / 20MHz / QPSK

Lowest Channel / 1RB



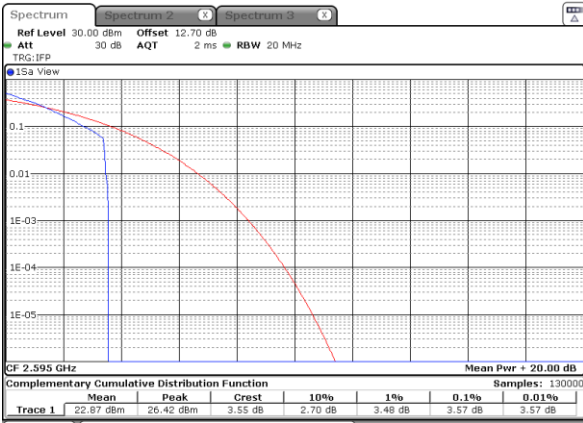
Date: 6 MAY 2020 01:16:53

Lowest Channel / Full RB



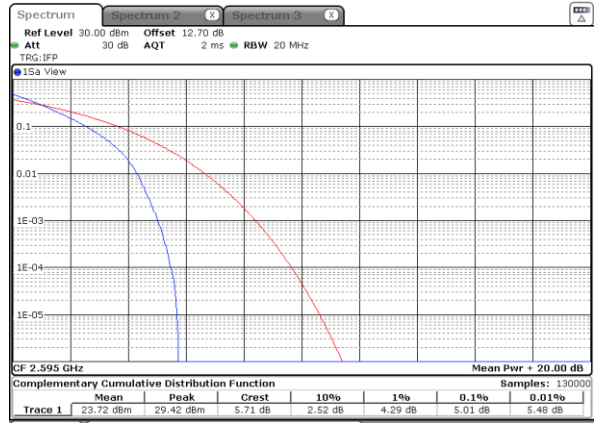
Date: 6 MAY 2020 01:17:19

Middle Channel / 1RB



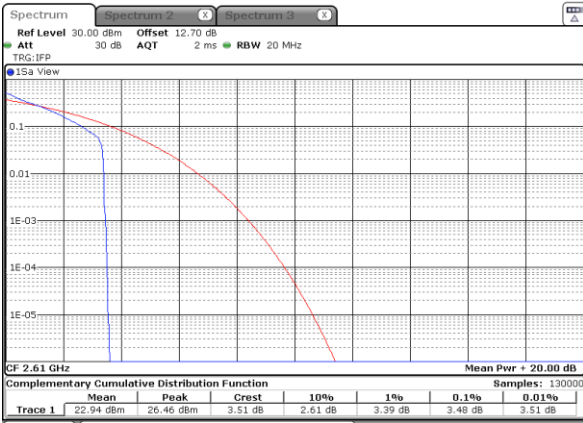
Date: 6 MAY 2020 01:17:34

Middle Channel / Full RB



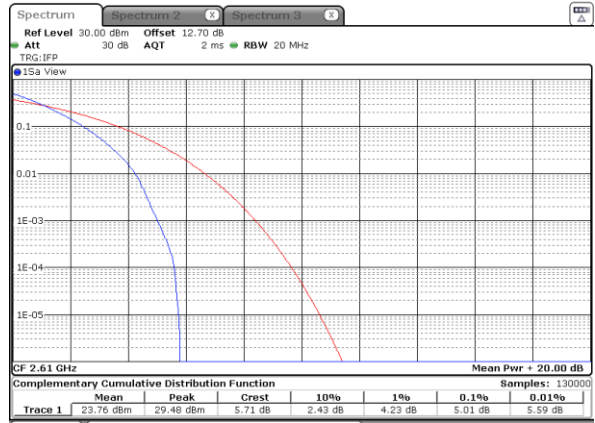
Date: 6 MAY 2020 01:17:49

Highest Channel / 1RB



Date: 6 MAY 2020 01:18:06

Highest Channel / Full RB

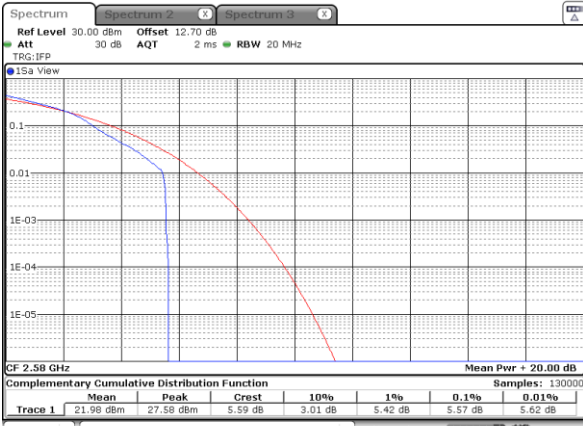


Date: 6 MAY 2020 01:18:21



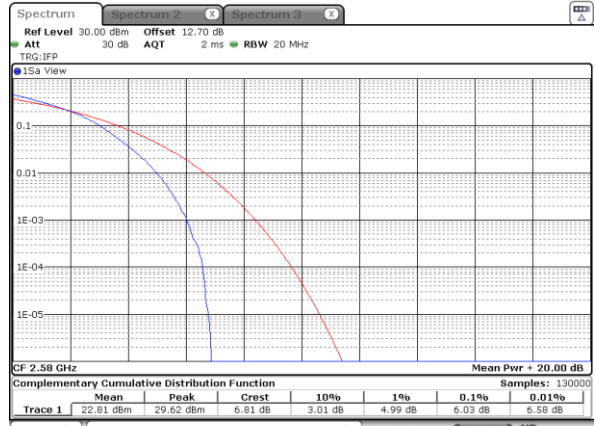
LTE Band 38 / 20MHz / 16QAM

Lowest Channel / 1RB



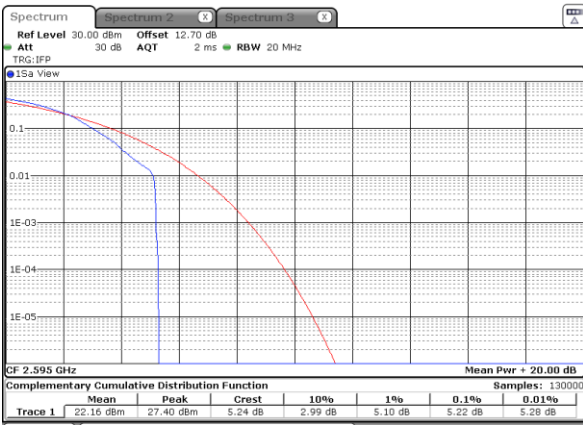
Date: 6 MAY 2020 01:15:23

Lowest Channel / Full RB



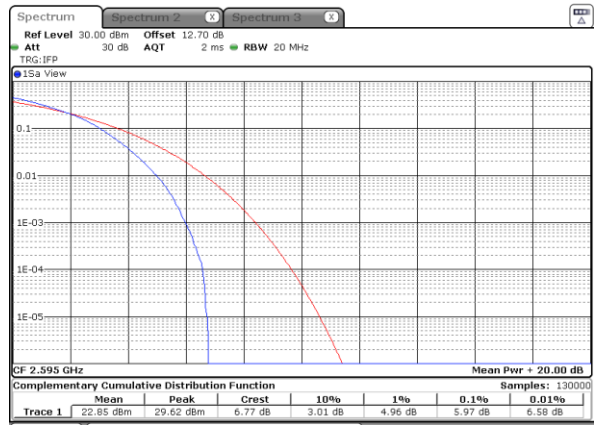
Date: 6 MAY 2020 01:15:38

Middle Channel / 1RB



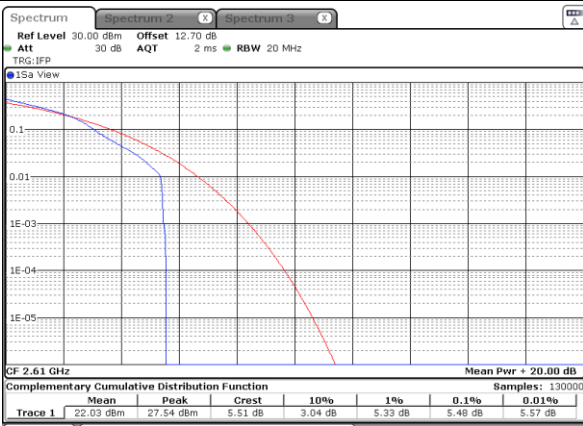
Date: 6 MAY 2020 01:15:52

Middle Channel / Full RB



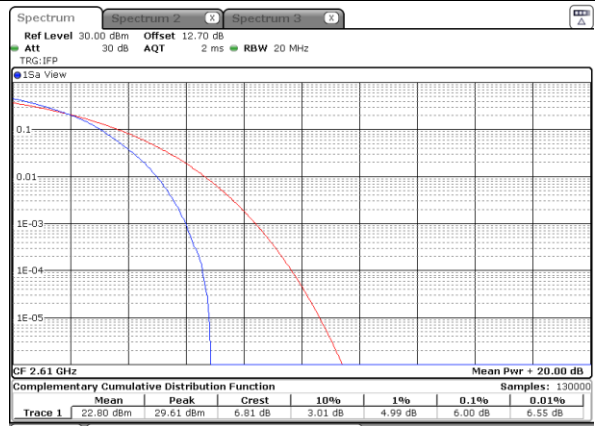
Date: 6 MAY 2020 01:16:07

Highest Channel / 1RB



Date: 6 MAY 2020 01:16:22

Highest Channel / Full RB

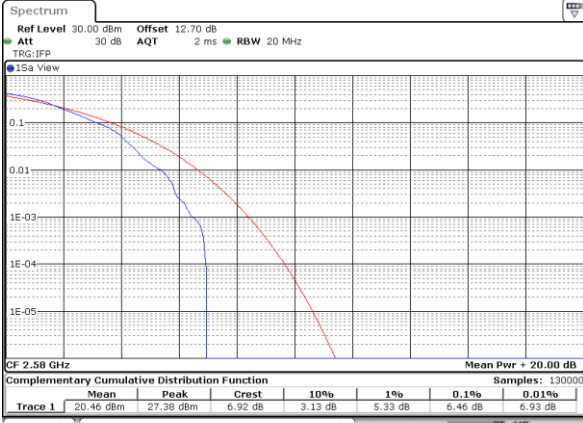


Date: 6 MAY 2020 01:16:37



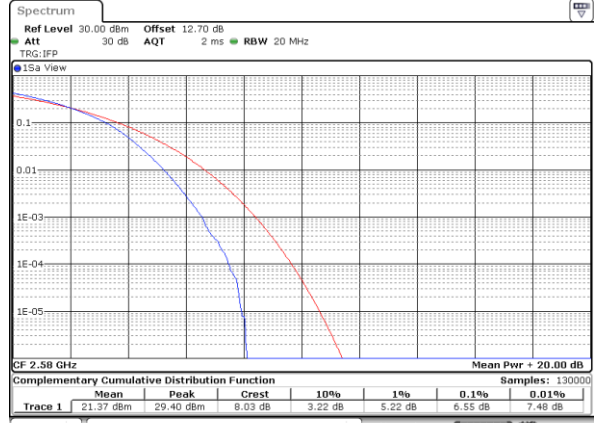
LTE Band 38 / 20MHz / 64QAM

Lowest Channel / 1RB



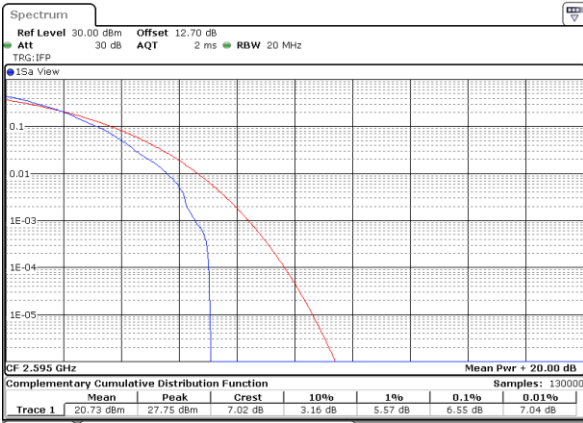
Date: 15 MAY 2020 18:33:12

Lowest Channel / Full RB



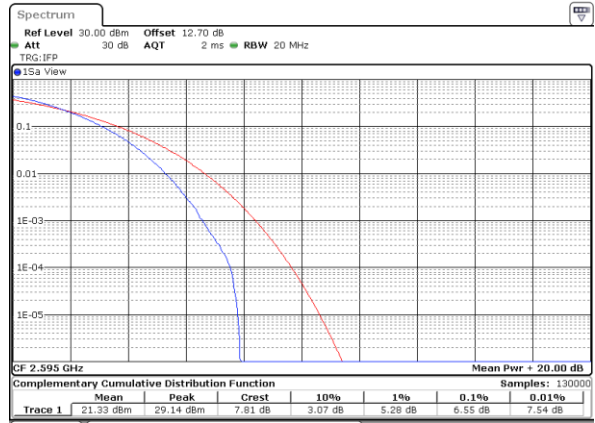
Date: 15 MAY 2020 18:33:35

Middle Channel / 1RB



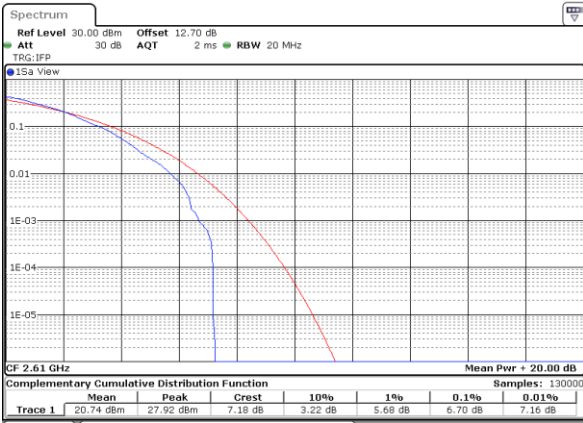
Date: 15 MAY 2020 18:34:18

Middle Channel / Full RB



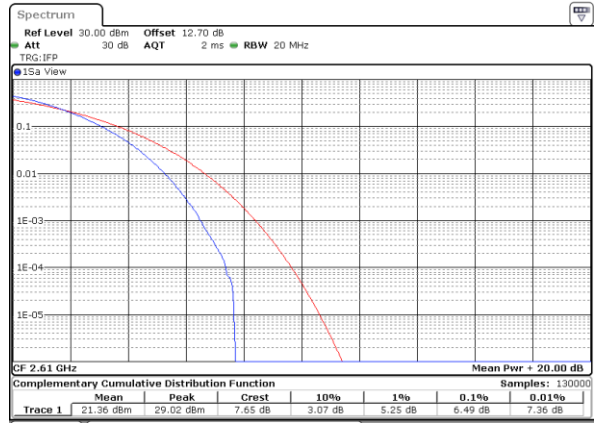
Date: 15 MAY 2020 18:34:33

Highest Channel / 1RB



Date: 15 MAY 2020 18:34:54

Highest Channel / Full RB



Date: 15 MAY 2020 18:35:09



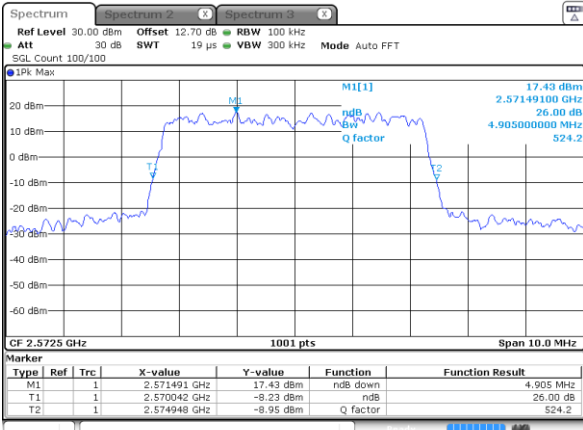
26dB Bandwidth

| Mode | LTE Band 38 : 26dB BW(MHz) | | | | | | | | | | | |
|------------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | - | - | - | - | 4.91 | 4.79 | 9.83 | 9.77 | 14.24 | 14.15 | 18.66 | 18.66 |
| Middle CH | - | - | - | - | 4.76 | 4.88 | 9.61 | 9.83 | 14.45 | 14.12 | 19.02 | 18.82 |
| Highest CH | - | - | - | - | 4.94 | 4.76 | 9.69 | 9.69 | 14.27 | 14.33 | 18.98 | 18.98 |
| Mode | LTE Band 38 : 26dB BW(MHz) | | | | | | | | | | | |
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | |
| Lowest CH | - | - | - | - | 4.81 | - | 9.67 | - | 14.24 | - | 18.66 | - |
| Middle CH | - | - | - | - | 4.87 | - | 9.69 | - | 14.27 | - | 18.70 | - |
| Highest CH | - | - | - | - | 4.89 | - | 9.81 | - | 14.24 | - | 18.62 | - |



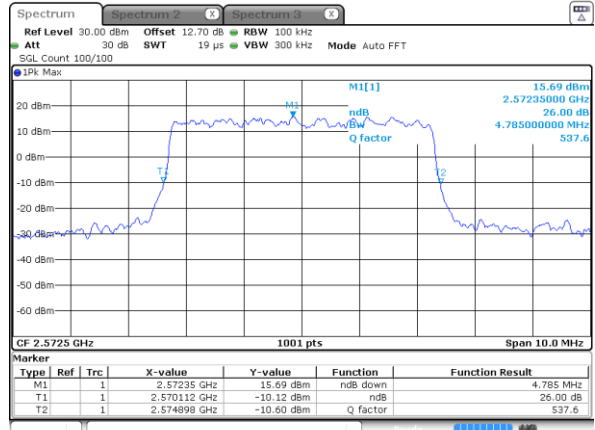
LTE Band 38

Lowest Channel / 5MHz / QPSK



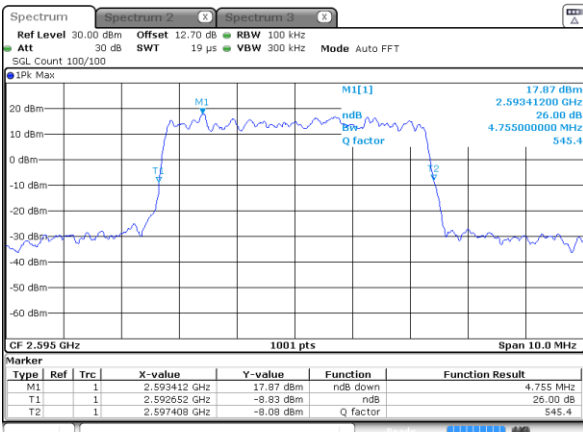
Date: 6 MAY 2020 00:51:14

Lowest Channel / 5MHz / 16QAM



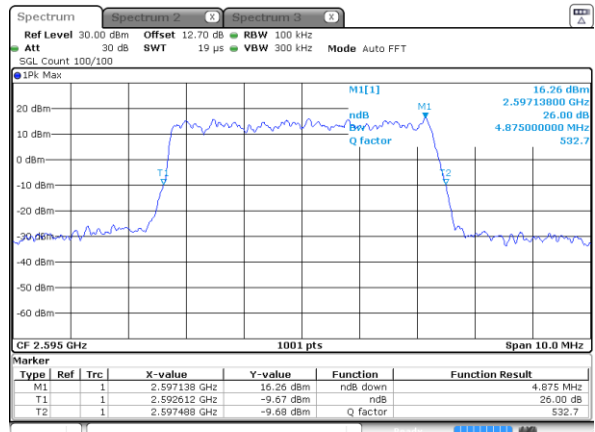
Date: 6 MAY 2020 00:51:26

Middle Channel / 5MHz / QPSK



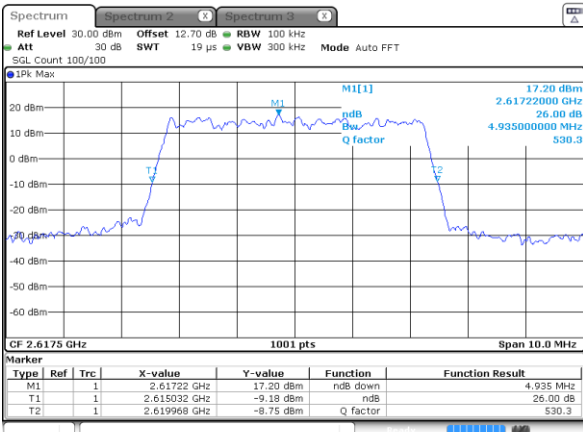
Date: 6 MAY 2020 00:52:01

Middle Channel / 5MHz / 16QAM



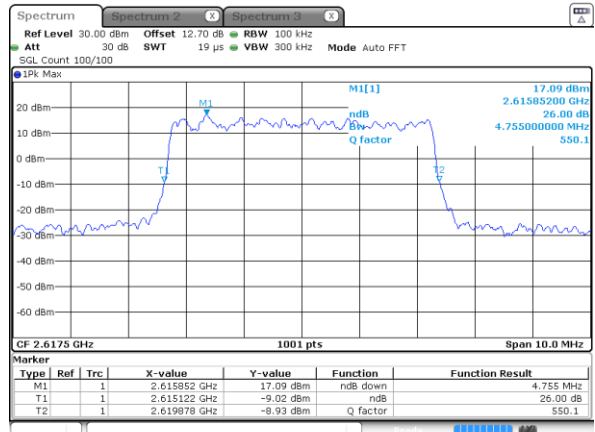
Date: 6 MAY 2020 00:52:13

Highest Channel / 5MHz / QPSK



Date: 6 MAY 2020 00:52:49

Highest Channel / 5MHz / 16QAM



Date: 6 MAY 2020 00:53:01