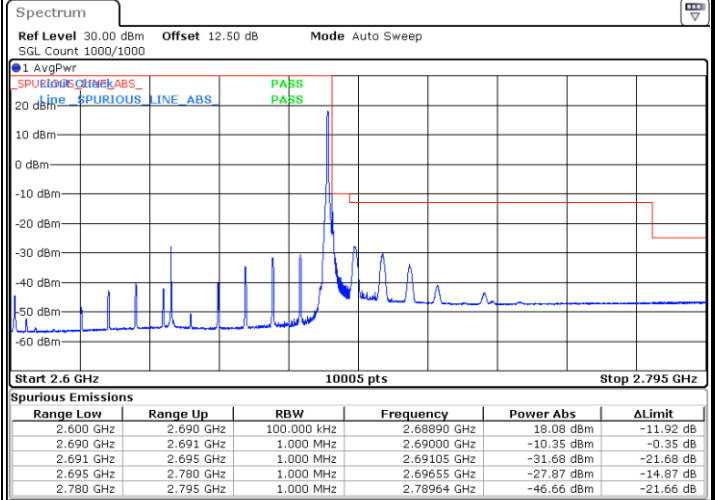
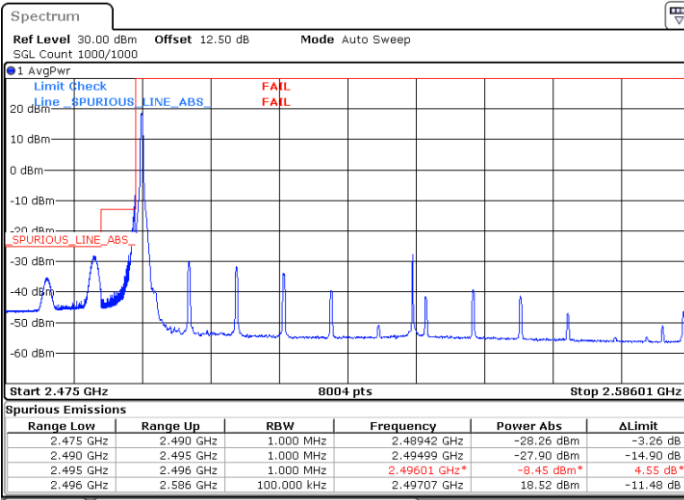




FR1 n41 / 90MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

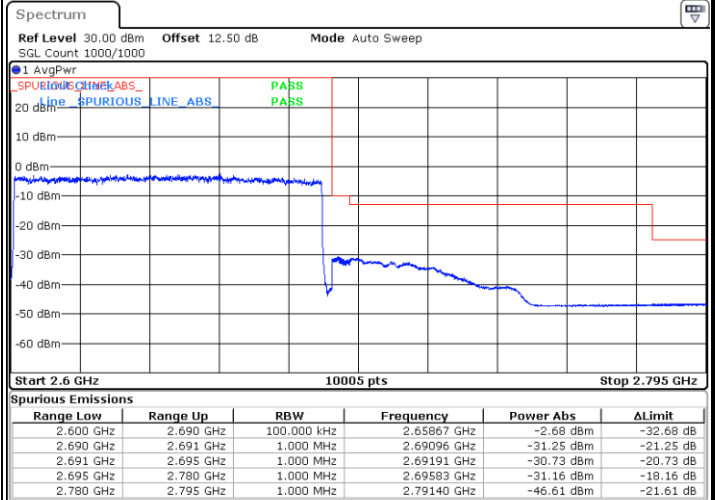
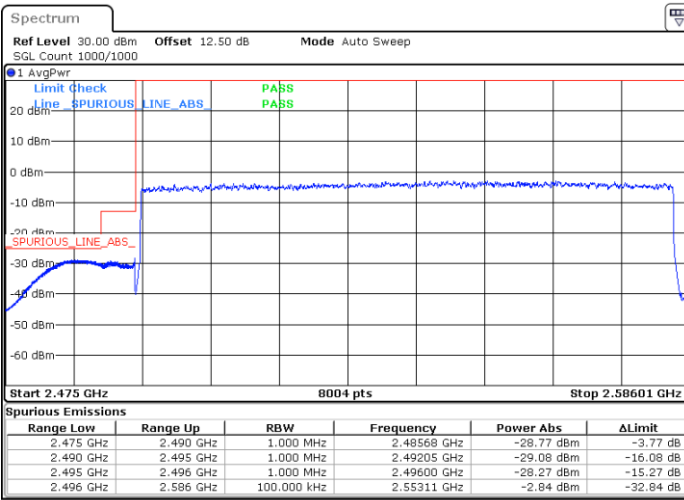


Date: 18.JUL.2020 22:02:23

Date: 18.JUL.2020 20:46:34

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 18.JUL.2020 22:14:58

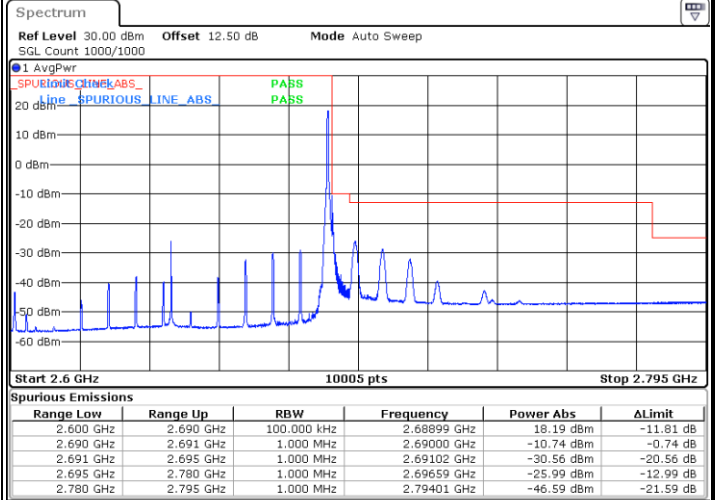
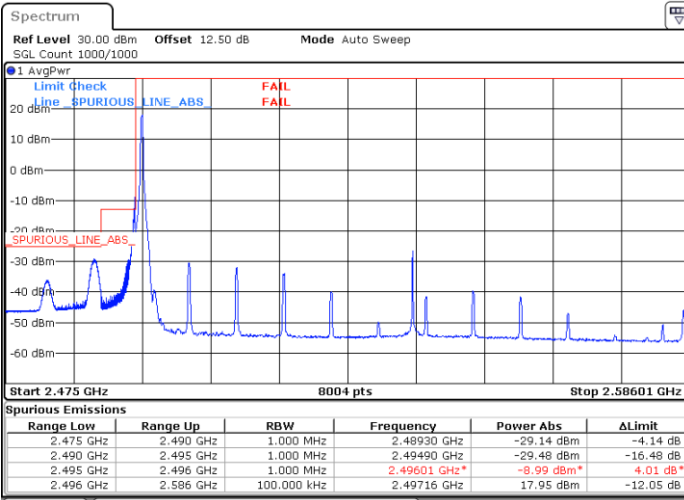
Date: 18.JUL.2020 20:35:23



FR1 n41 / 90MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

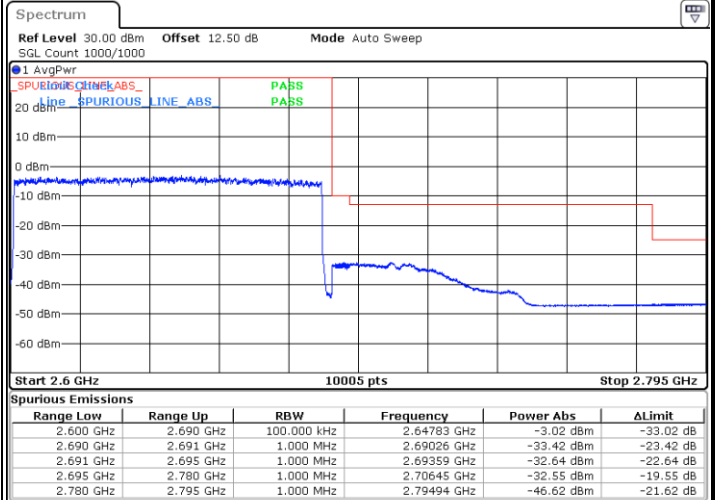
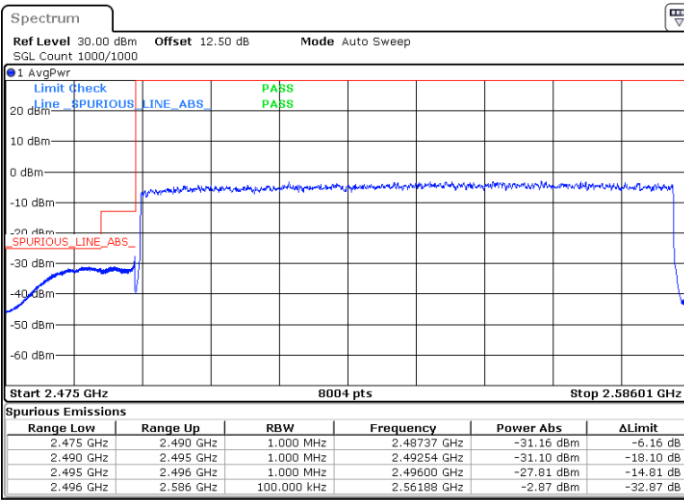


Date: 18.JUL.2020 22:04:35

Date: 18.JUL.2020 20:42:23

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 18.JUL.2020 22:16:33

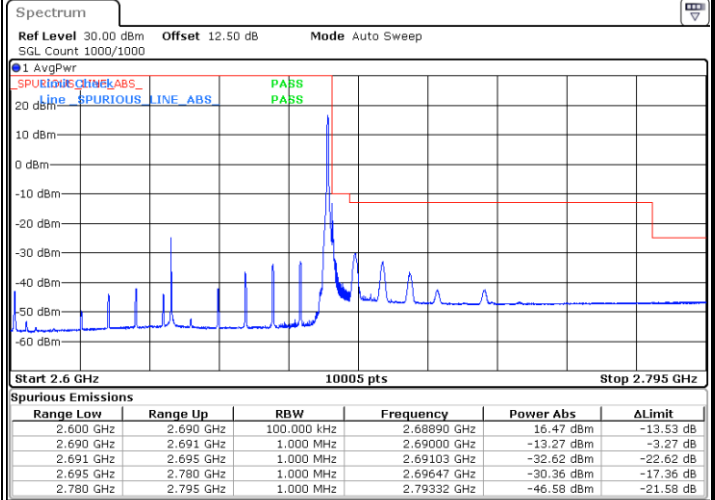
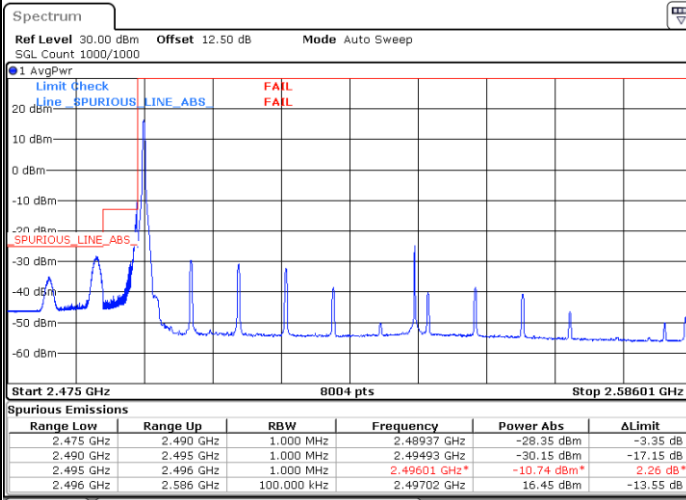
Date: 18.JUL.2020 20:38:19



FR1 n41 / 90MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

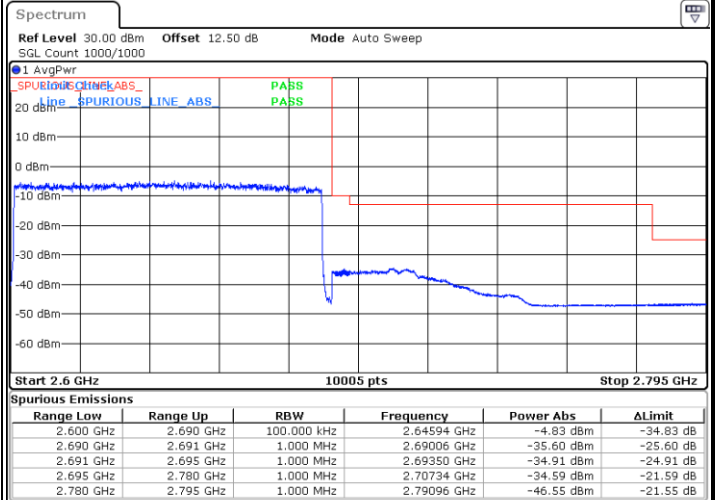
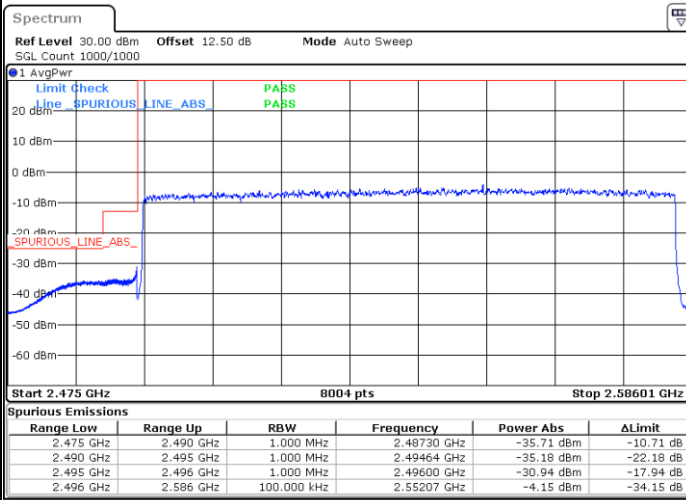


Date: 18.JUL.2020 22:19:58

Date: 18.JUL.2020 21:02:18

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 18.JUL.2020 22:18:10

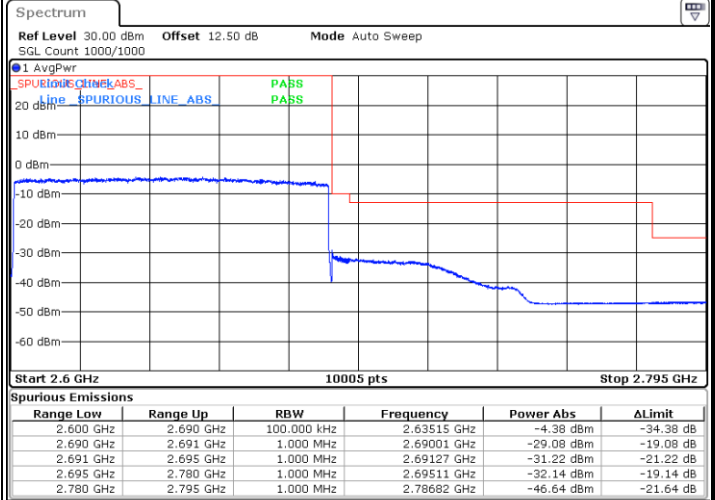
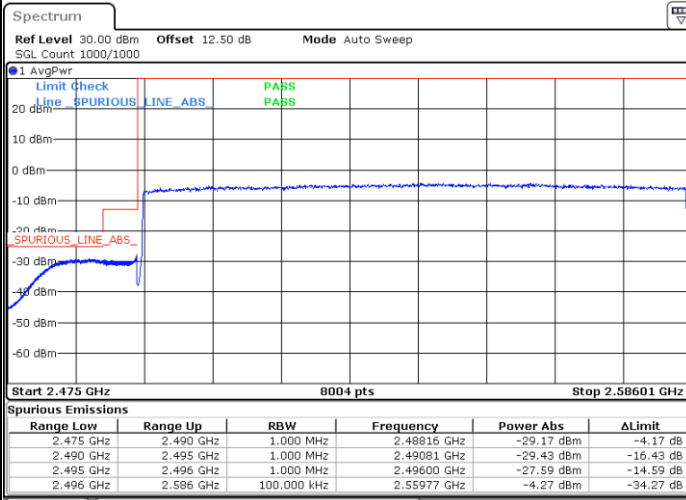
Date: 18.JUL.2020 21:33:59



FR1 n41 / 90MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 18.JUL.2020 22:23:03

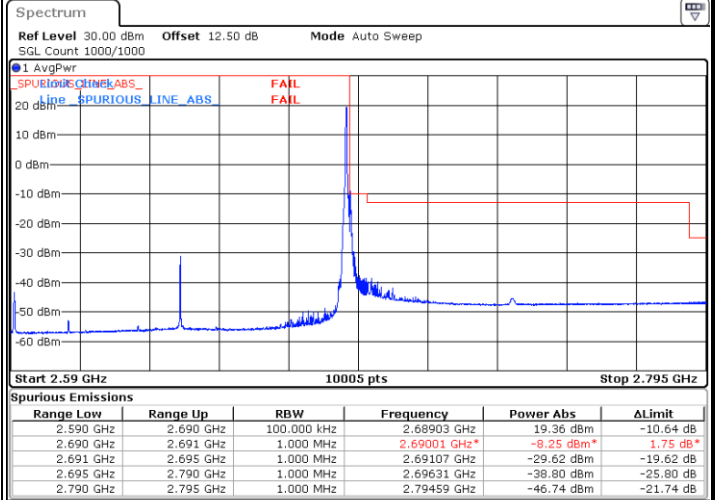
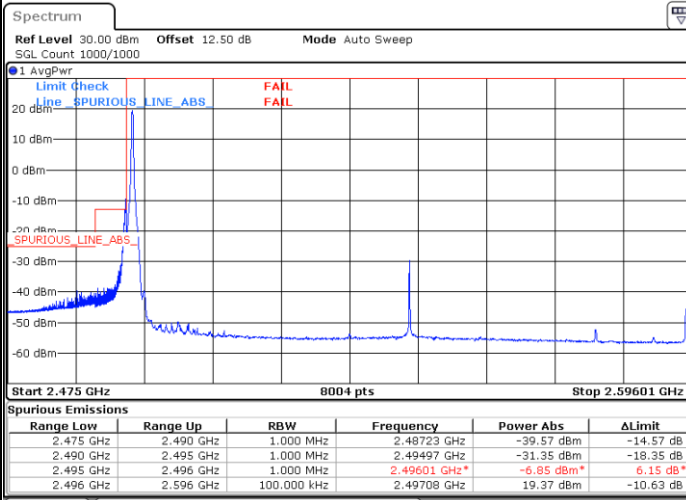
Date: 18.JUL.2020 20:25:50



FR1 n41 / 100MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

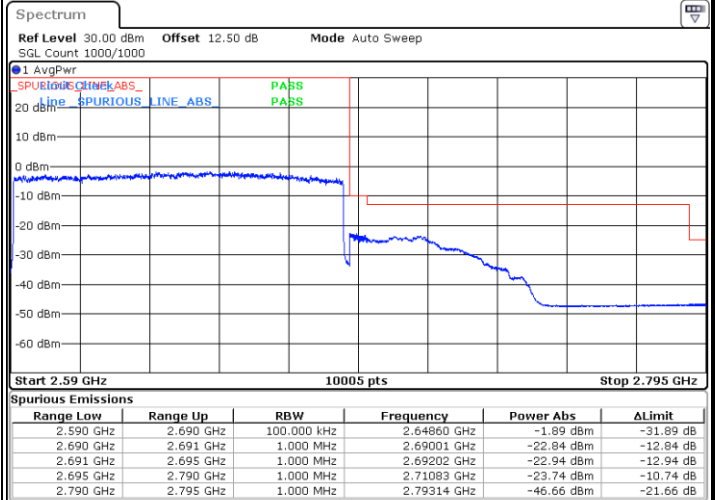
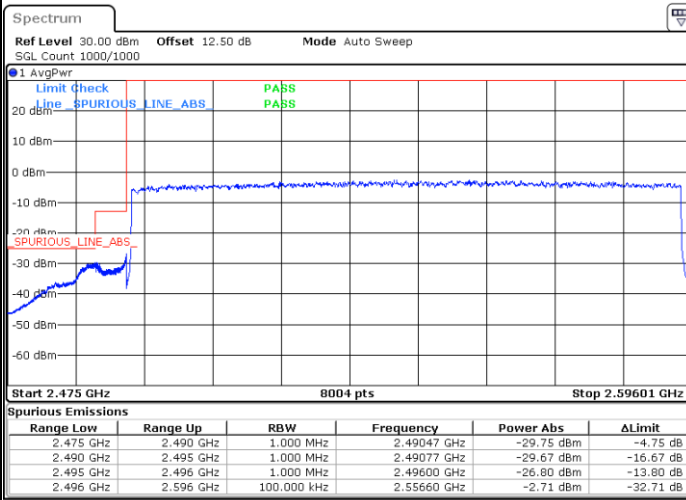


Date: 17.JUL.2020 16:47:53

Date: 17.JUL.2020 19:19:01

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 17.JUL.2020 16:42:12

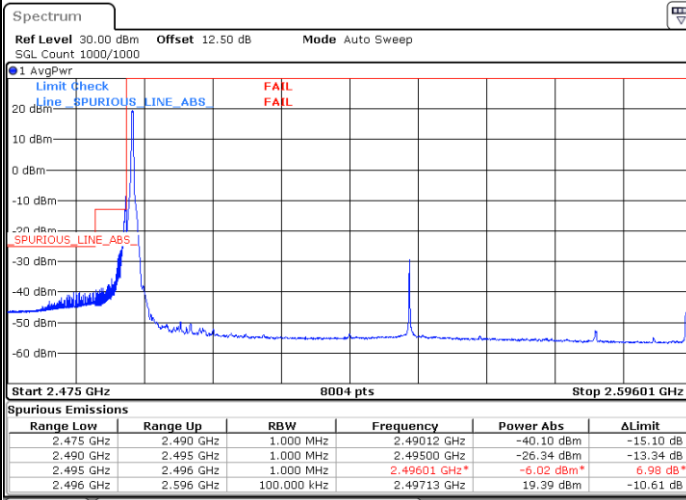
Date: 17.JUL.2020 19:15:09



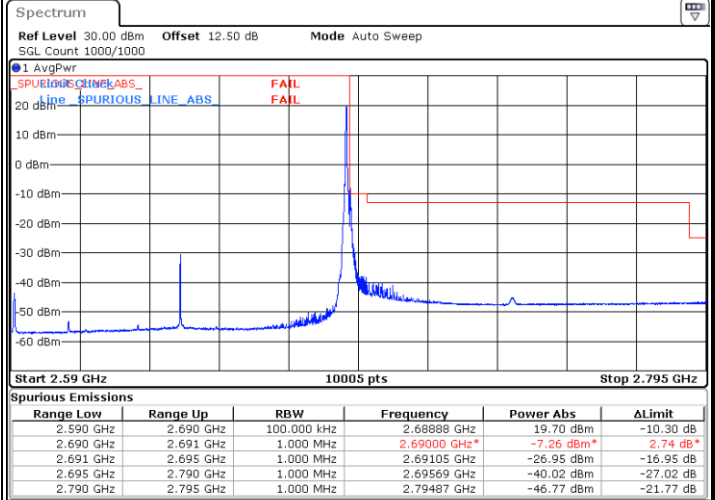
FR1 n41 / 100MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



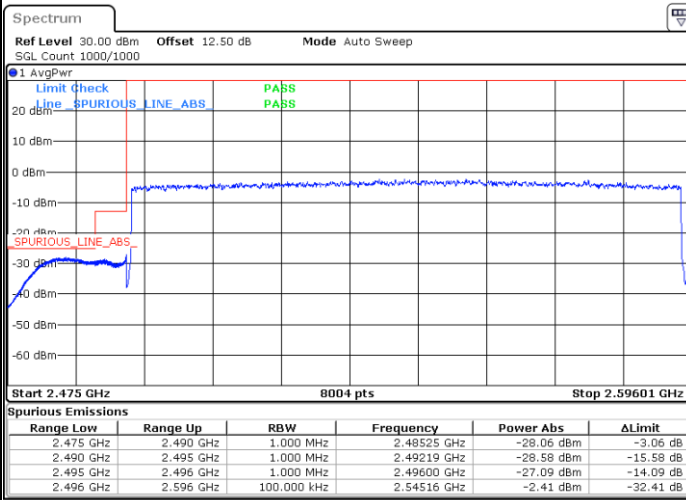
Date: 17.JUL.2020 16:51:21



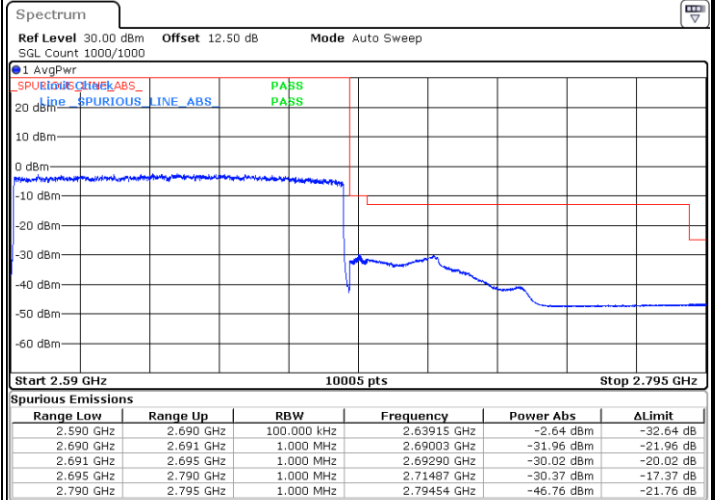
Date: 17.JUL.2020 19:08:53

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 17.JUL.2020 16:54:40



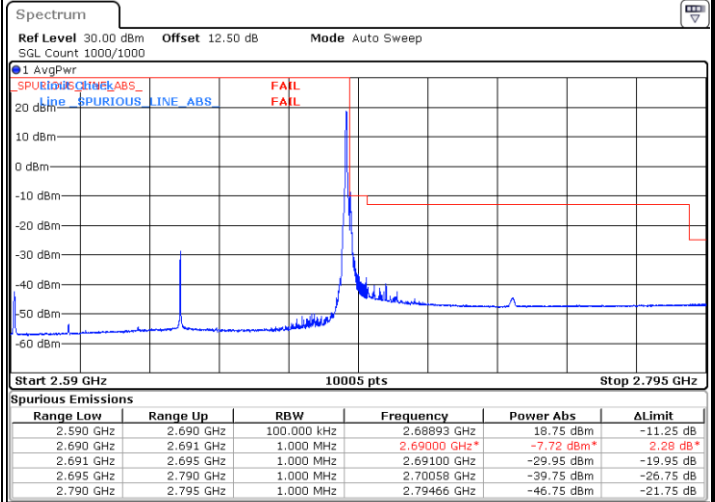
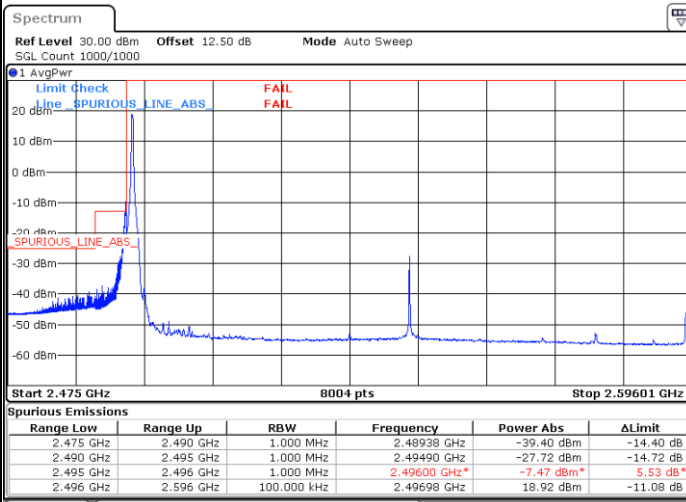
Date: 17.JUL.2020 19:12:10



FR1 n41 / 100MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

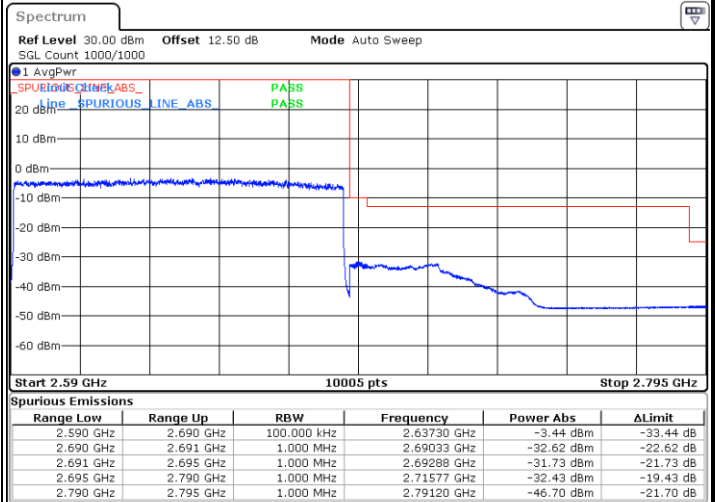
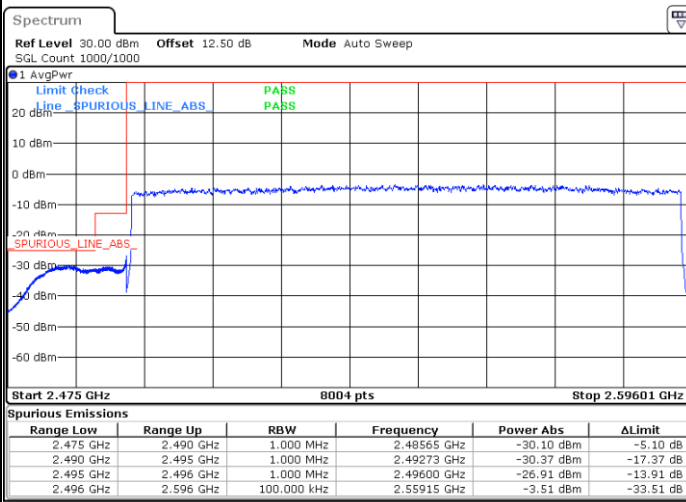


Date: 17.JUL.2020 16:59:02

Date: 17.JUL.2020 19:03:23

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 17.JUL.2020 17:05:45

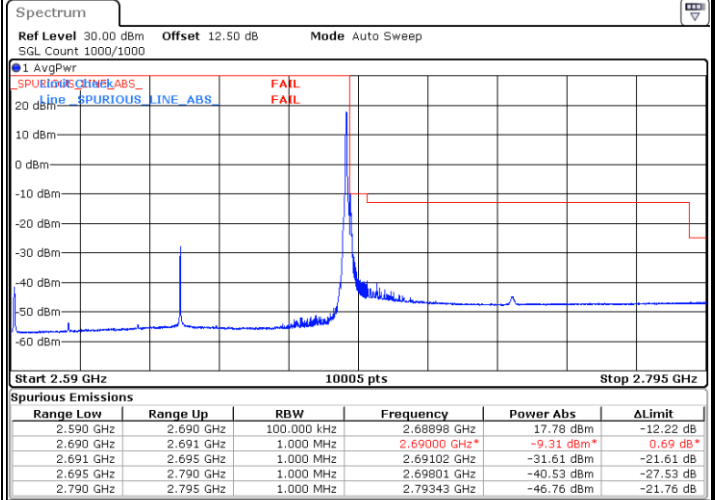
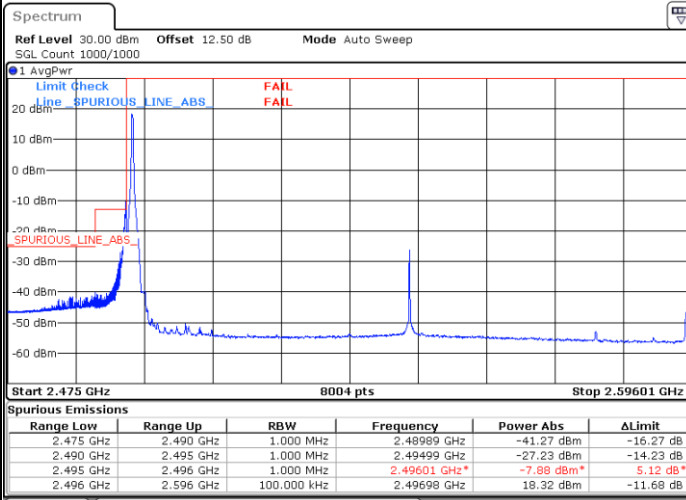
Date: 17.JUL.2020 19:00:20



FR1 n41 / 100MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

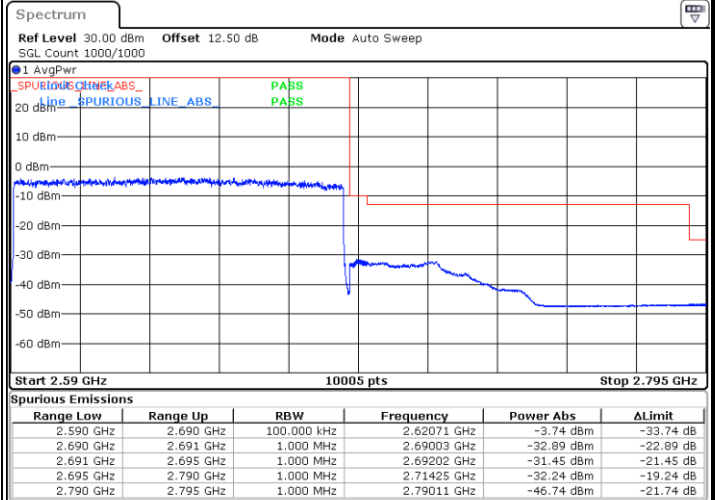
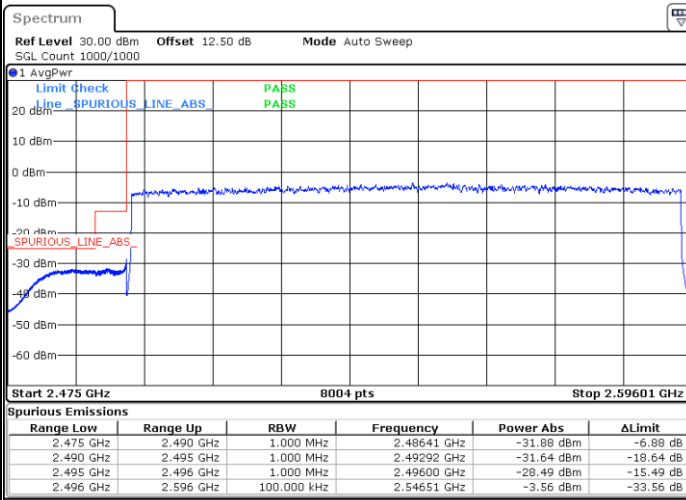


Date: 17.JUL.2020 17:01:28

Date: 17.JUL.2020 18:45:23

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 17.JUL.2020 17:03:51

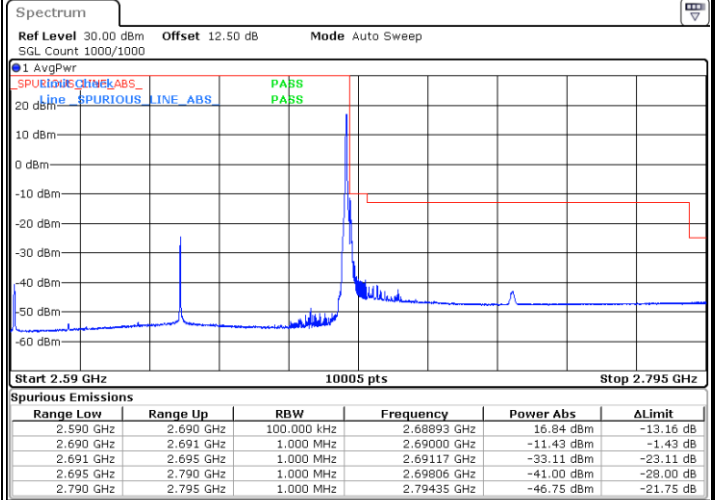
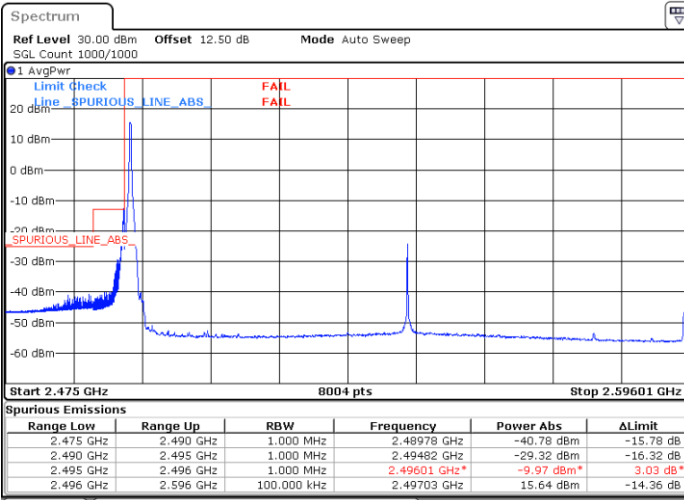
Date: 17.JUL.2020 18:48:07



FR1 n41 / 100MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

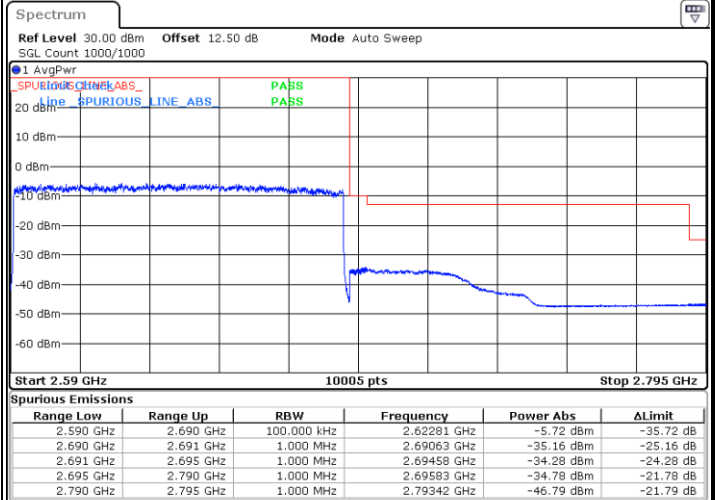
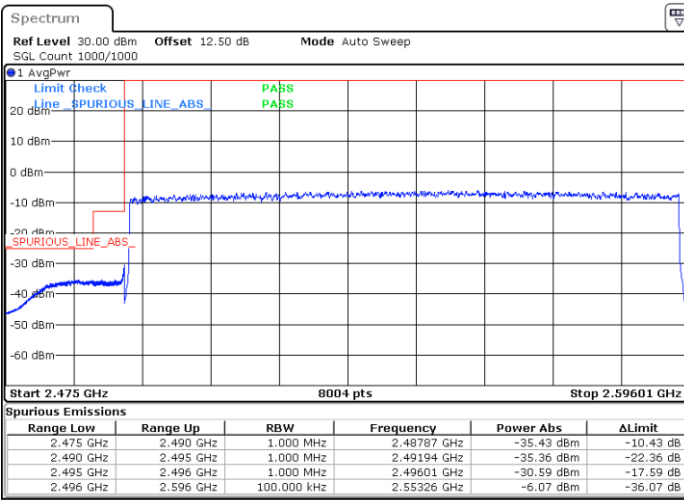


Date: 17.JUL.2020 17:15:22

Date: 17.JUL.2020 18:39:30

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 17.JUL.2020 17:17:10

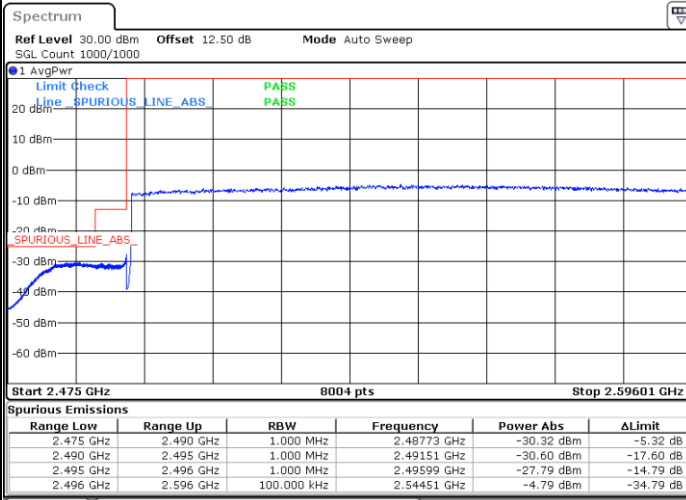
Date: 17.JUL.2020 18:36:14



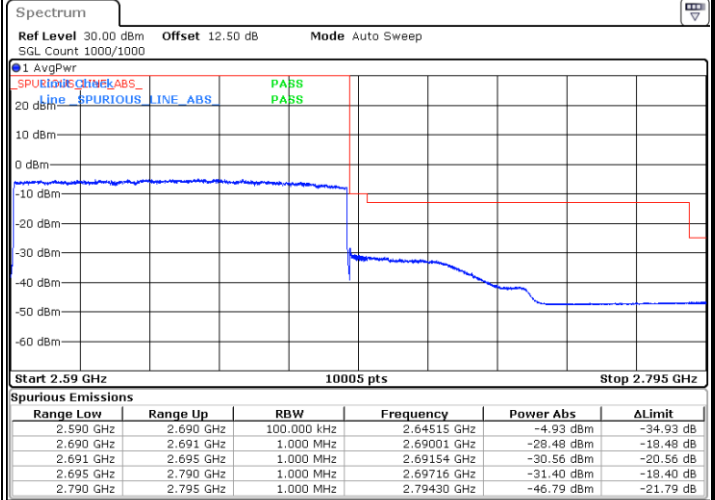
FR1 n41 / 100MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 17.JUL.2020 17:21:52



Date: 17.JUL.2020 19:26:55

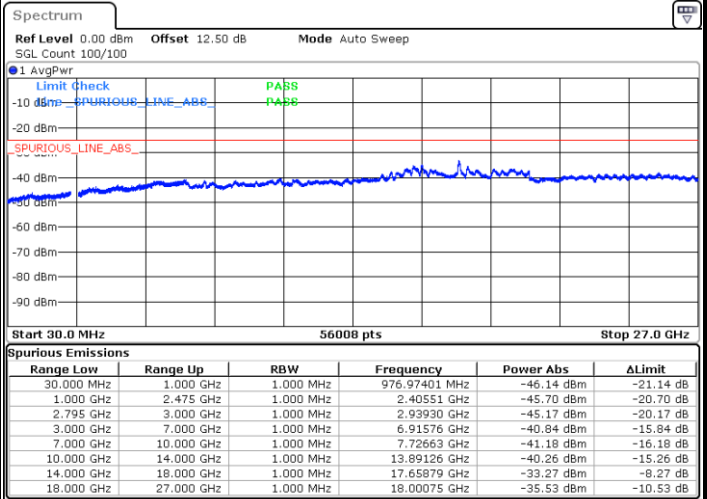
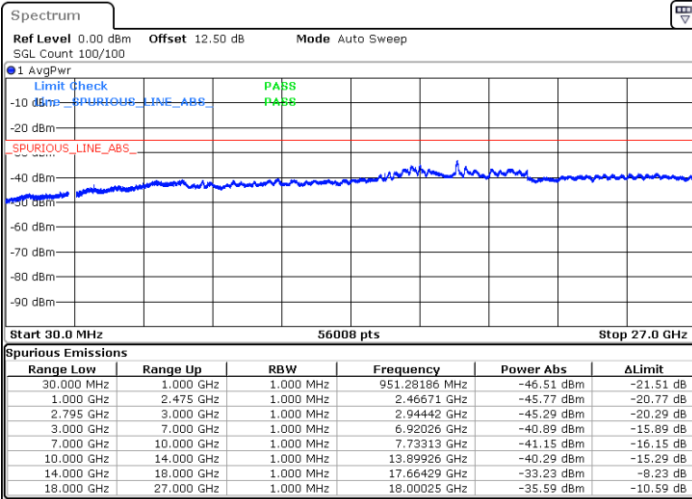


Conducted Spurious Emission

FR1 n41 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

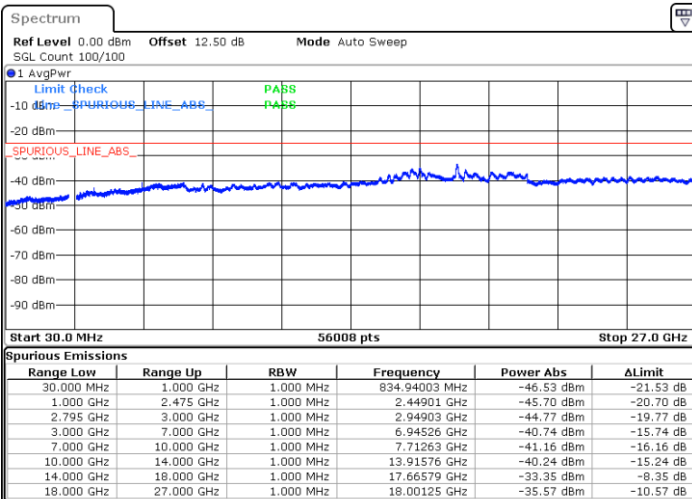
Middle Channel / 1RB1



Date: 17.JUL.2020 07:20:07

Date: 17.JUL.2020 07:18:30

Highest Channel / 1RB1



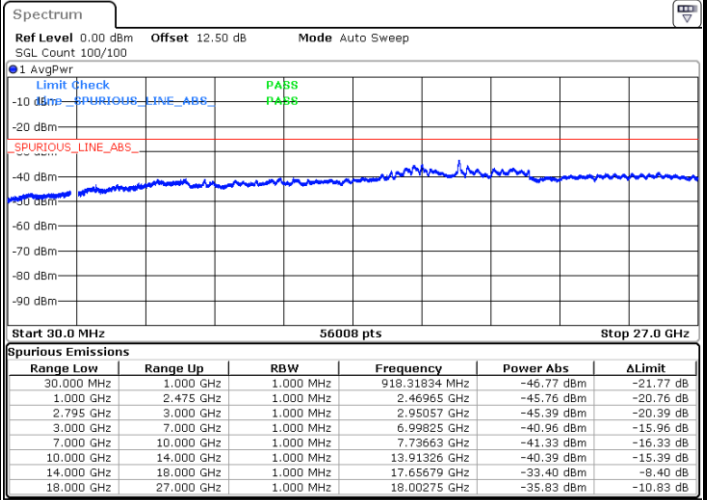
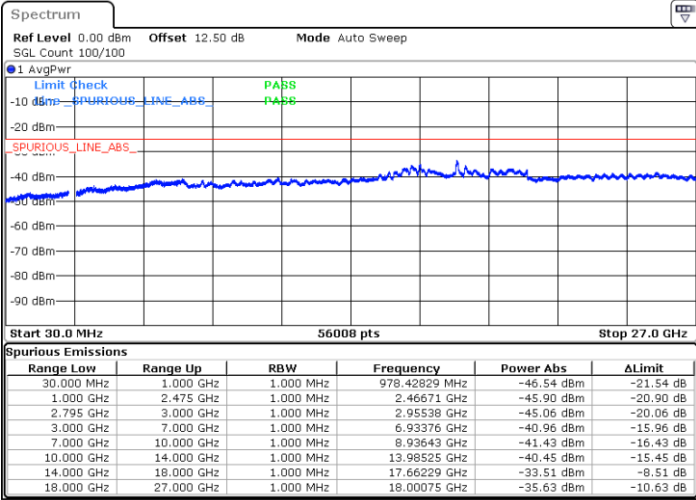
Date: 17.JUL.2020 07:13:58



FR1 n41 / 40MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

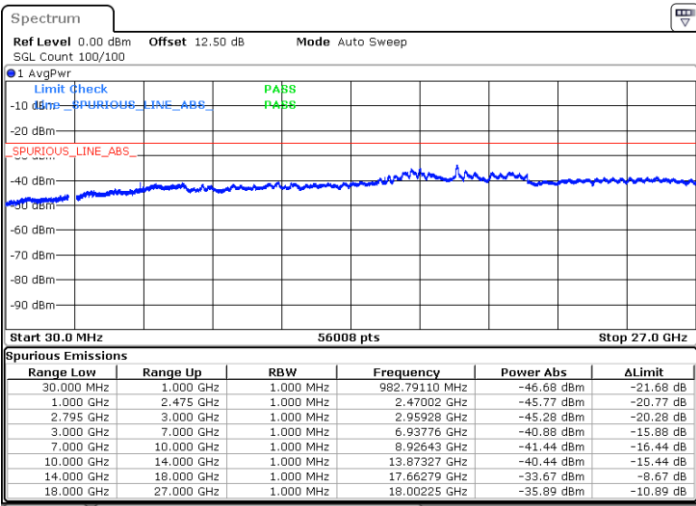
Middle Channel / 1RB1



Date: 17.JUL.2020 10:48:51

Date: 17.JUL.2020 13:53:04

Highest Channel / 1RB1



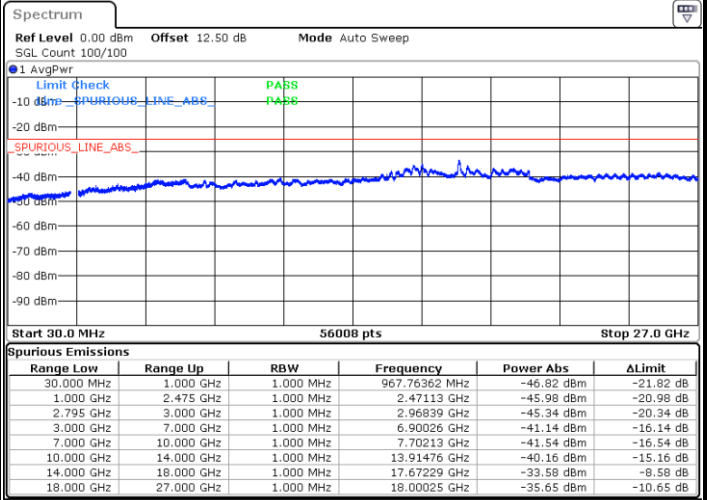
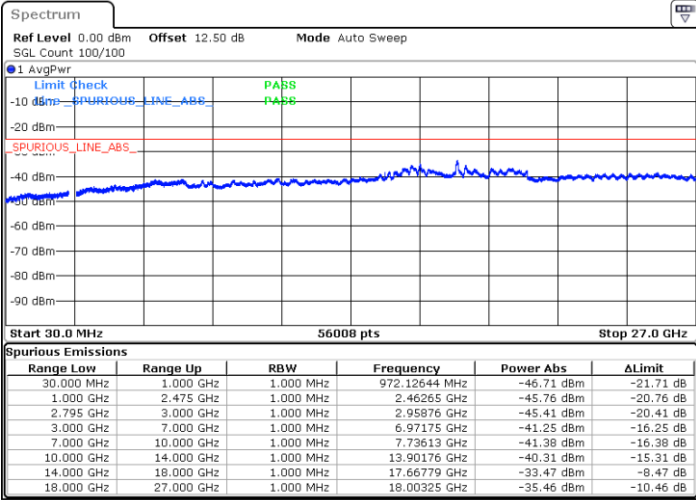
Date: 17.JUL.2020 13:59:35



FR1 n41 / 50MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

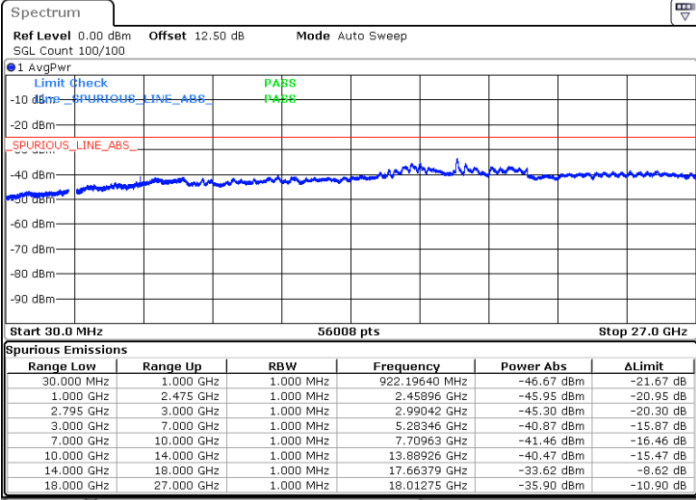
Middle Channel / 1RB1



Date: 17.JUL.2020 21:04:10

Date: 17.JUL.2020 21:03:01

Highest Channel / 1RB1



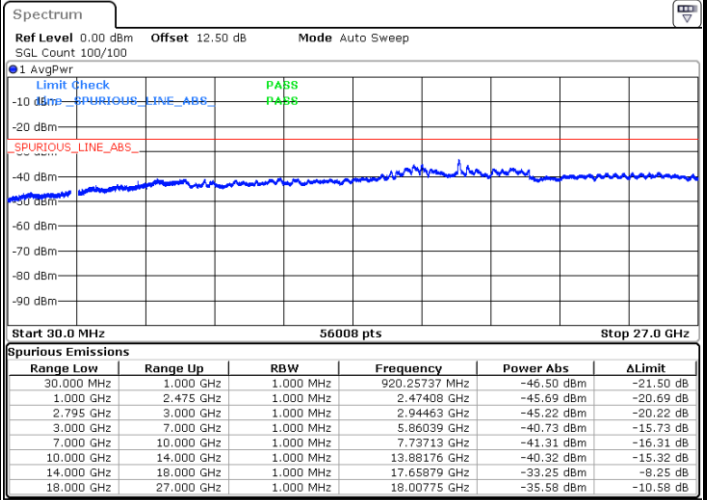
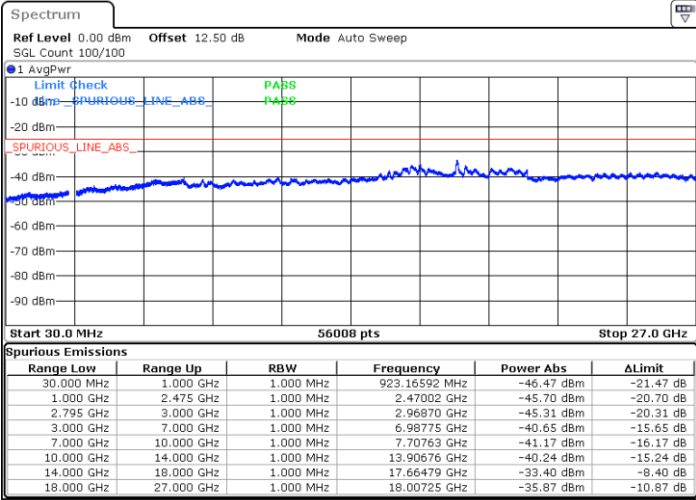
Date: 17.JUL.2020 21:40:13



FR1 n41 / 60MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

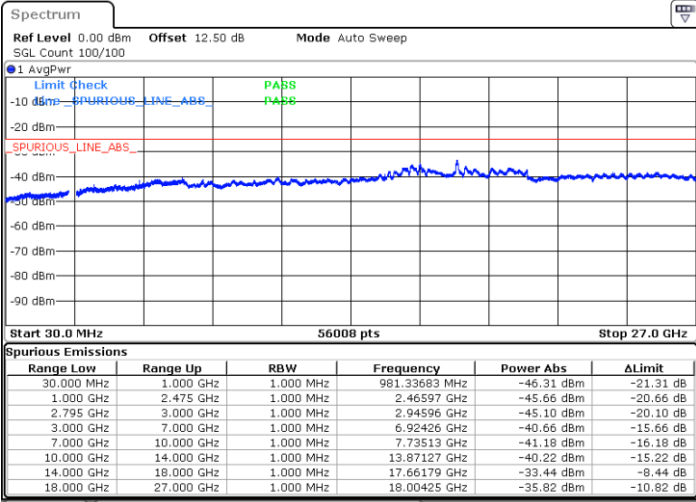
Middle Channel / 1RB1



Date: 18.JUL.2020 15:12:15

Date: 18.JUL.2020 15:54:08

Highest Channel / 1RB1



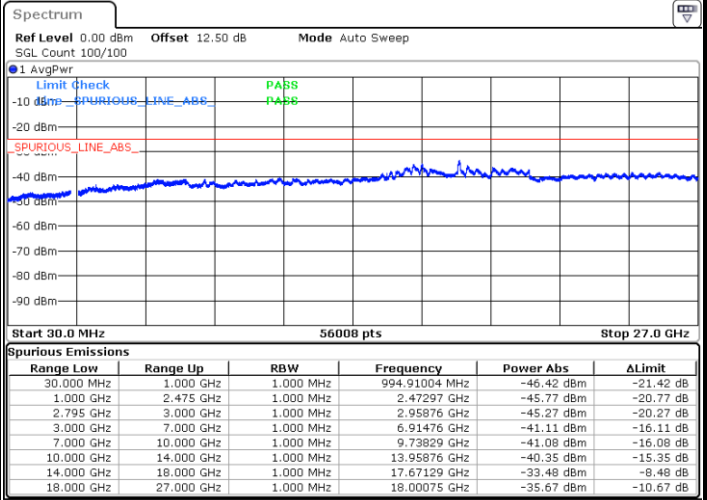
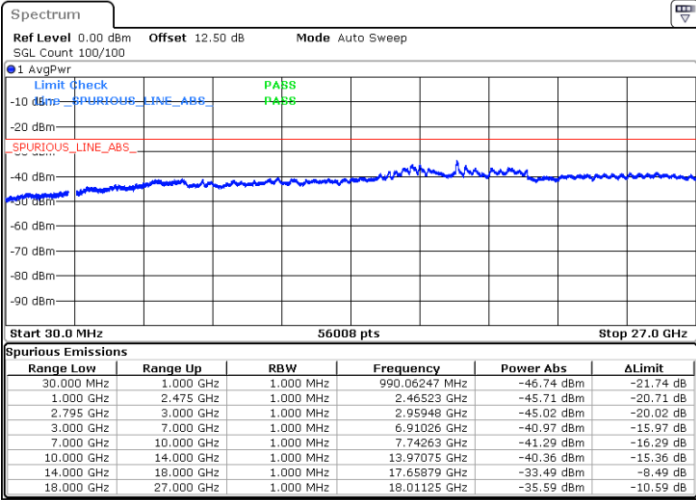
Date: 18.JUL.2020 16:35:52



FR1 n41 / 80MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

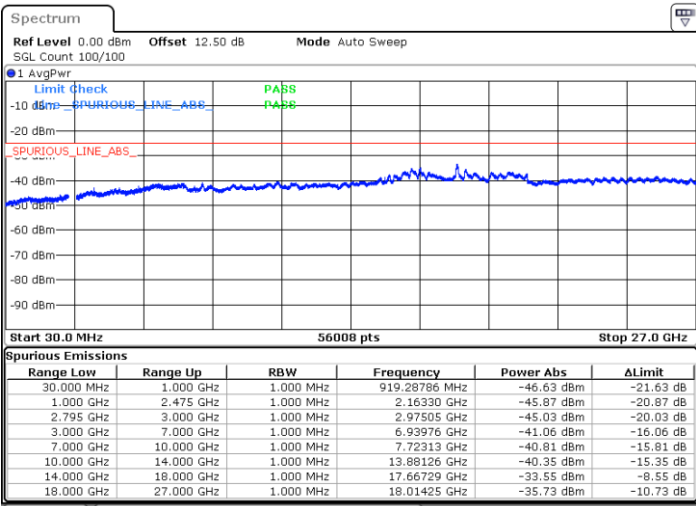
Middle Channel / 1RB1



Date: 18.JUL.2020 19:12:22

Date: 18.JUL.2020 19:15:58

Highest Channel / 1RB1



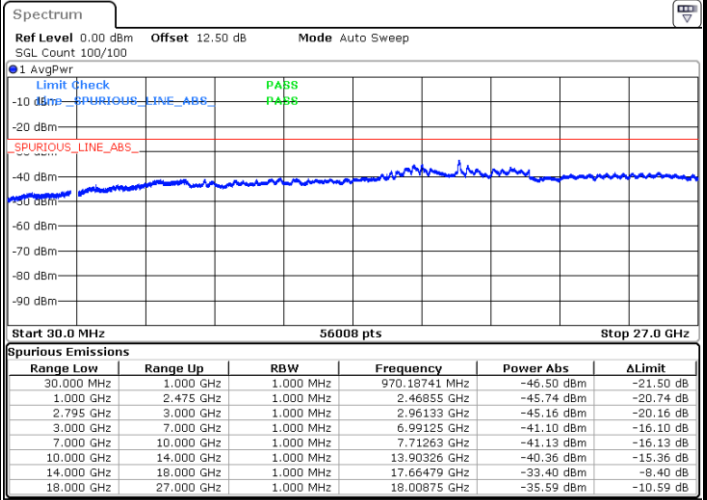
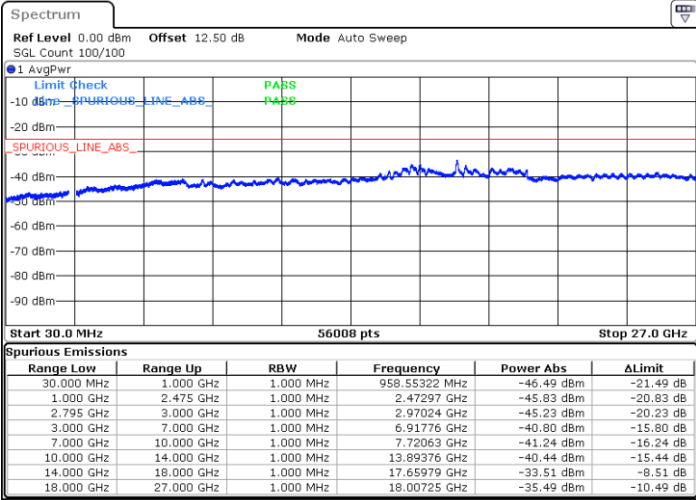
Date: 18.JUL.2020 19:17:10



FR1 n41 / 90MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

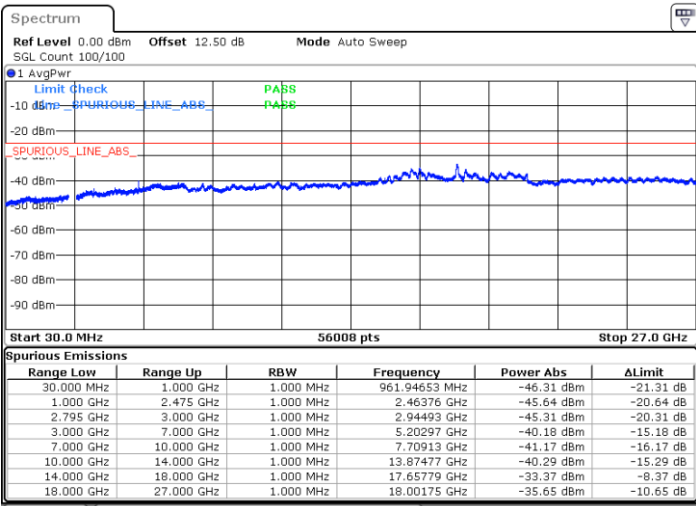
Middle Channel / 1RB1



Date: 18.JUL.2020 21:53:26

Date: 18.JUL.2020 21:51:56

Highest Channel / 1RB1



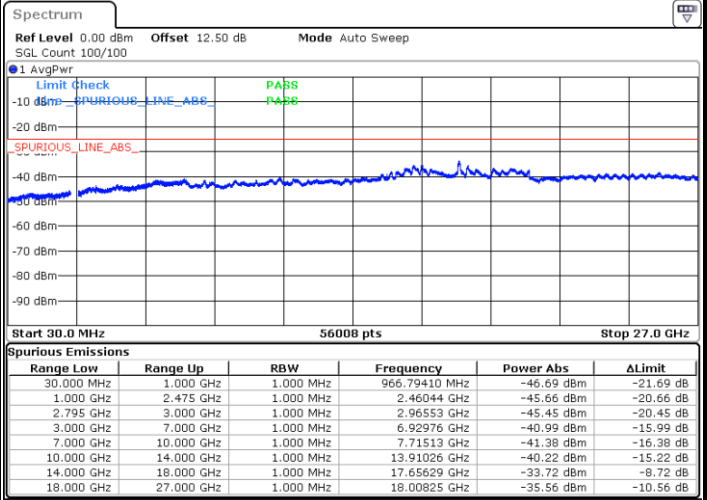
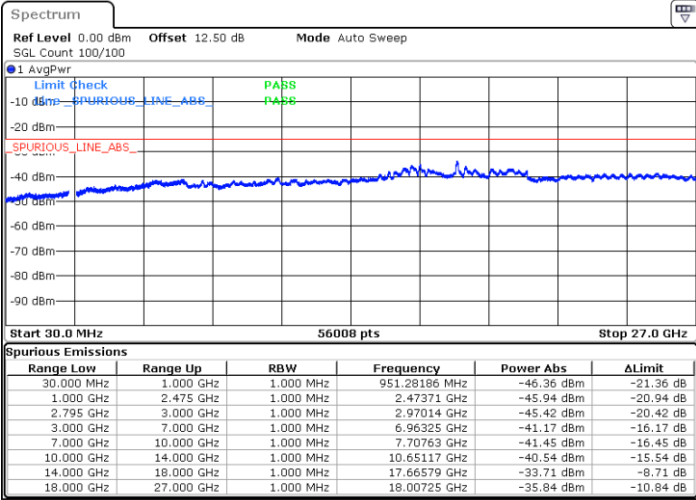
Date: 18.JUL.2020 20:51:52



FR1 n41 / 100MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

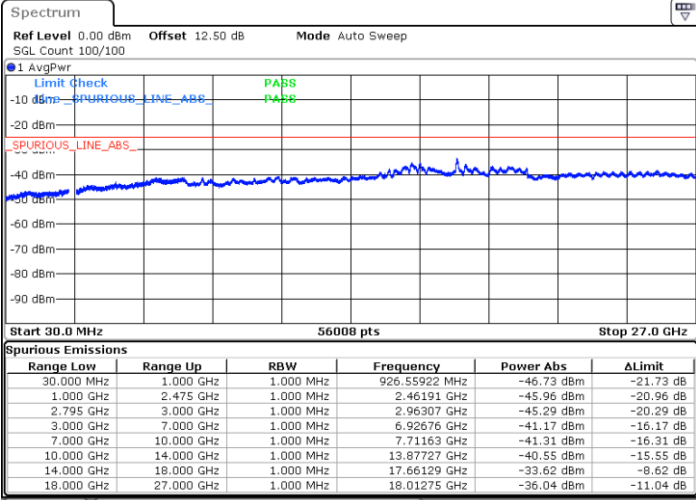
Middle Channel / 1RB1



Date: 17.JUL.2020 17:13:13

Date: 17.JUL.2020 18:32:15

Highest Channel / 1RB1



Date: 17.JUL.2020 19:05:34



Frequency Stability

| Test Conditions | | FR1 n41 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|---------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 20MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0052 | PASS |
| 40 | Normal Voltage | 0.0016 | |
| 30 | Normal Voltage | 0.0040 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0025 | |
| 0 | Normal Voltage | 0.0012 | |
| -10 | Normal Voltage | 0.0007 | |
| -20 | Normal Voltage | 0.0009 | |
| -30 | Normal Voltage | 0.0003 | |
| 20 | Maximum Voltage | 0.0022 | |
| 20 | Normal Voltage | 0.0038 | |
| 20 | Battery End Point | 0.0010 | |

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.60 V. ; Maximum Voltage =4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



FR1 n66

Peak-to-Average Ratio

| Mode | FR1 n66 / 20MHz / DFT-S OFDM | | | | |
|------------|------------------------------|---------|---------|---------|-------------|
| Mod. | PI/2 BPSK | QPSK | 16QAM | 64QAM | Limit: 13dB |
| RB Size | Full RB | Full RB | Full RB | Full RB | Result |
| Lowest CH | 4.58 | 5.30 | 6.41 | 6.81 | PASS |
| Middle CH | 4.43 | 5.22 | 6.41 | 6.84 | |
| Highest CH | 4.61 | 5.22 | 6.41 | 6.70 | |
| Mode | FR1 n66 / 20MHz / DFT-S OFDM | | | | |
| Mod. | 256QAM | | | | Limit: 13dB |
| RB Size | Full RB | | | | Result |
| Lowest CH | 7.22 | | | | PASS |
| Middle CH | 7.25 | | | | |
| Highest CH | 7.25 | | | | |



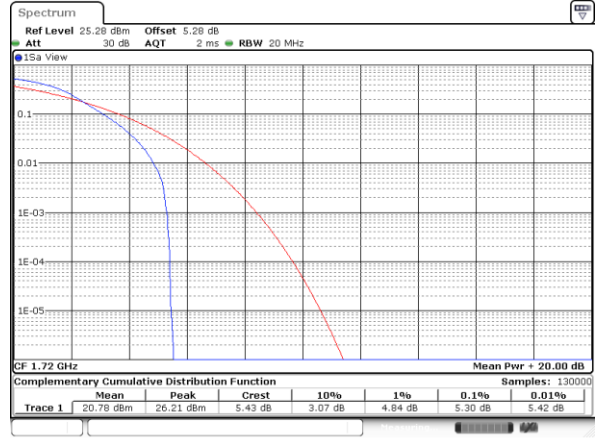
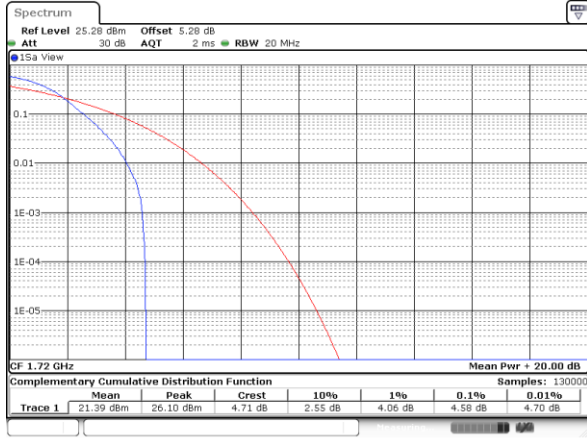
FR1 n66 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel / Full RB

Lowest Channel / Full RB

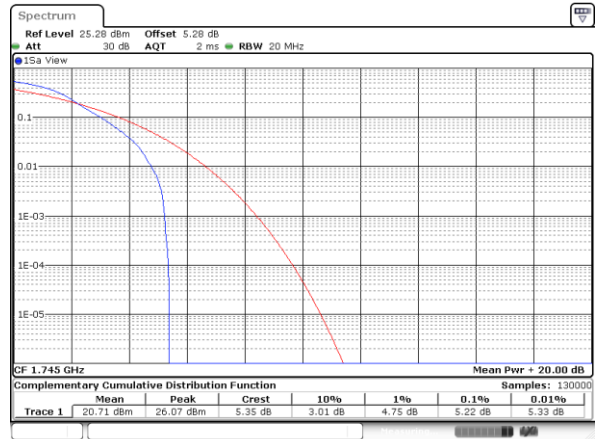
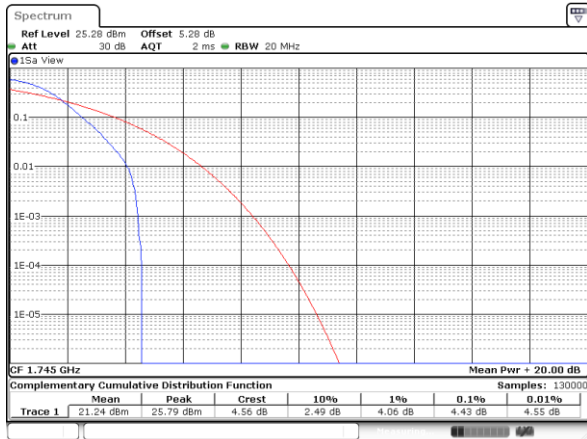


Date: 26 JUN 2020 16:30:44

Date: 26 JUN 2020 16:30:32

Middle Channel / Full RB

Middle Channel / Full RB

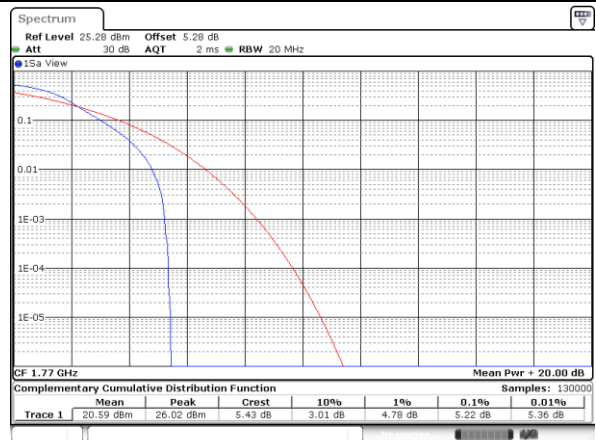
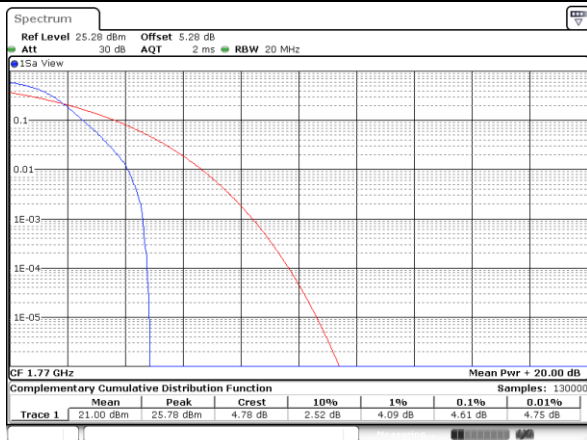


Date: 26 JUN 2020 16:41:57

Date: 26 JUN 2020 16:43:27

Highest Channel / Full RB

Highest Channel / Full RB



Date: 26 JUN 2020 16:47:50

Date: 26 JUN 2020 16:48:27



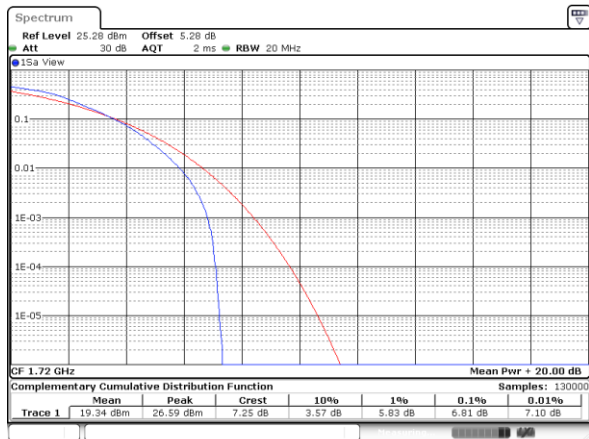
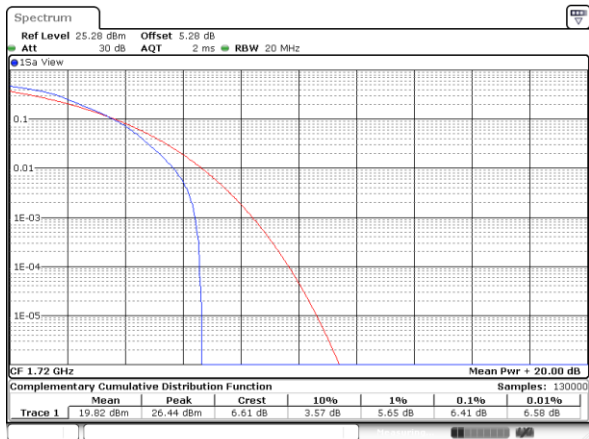
FR1 n66 / 20MHz / DFT-S OFDM

16QAM

64QAM

Lowest Channel / Full RB

Lowest Channel / Full RB

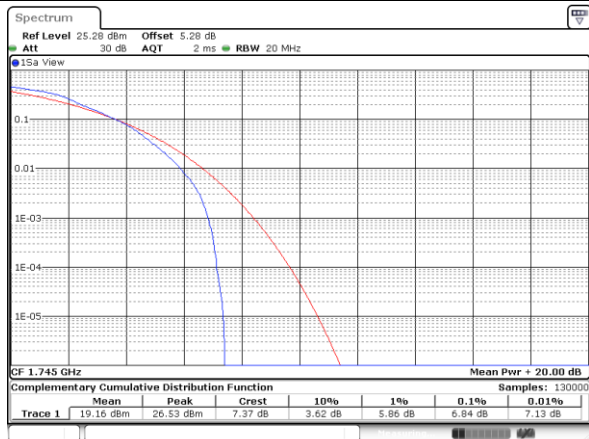
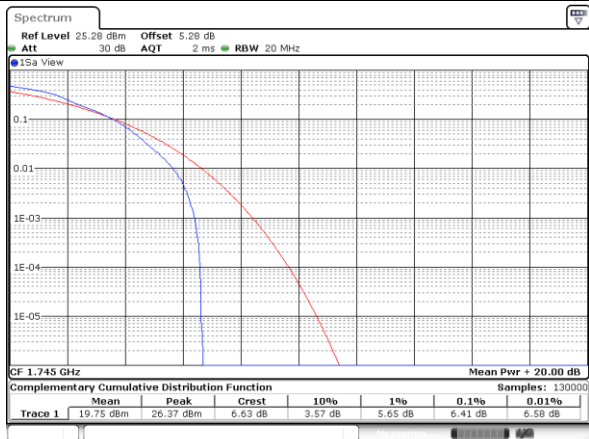


Date: 26 JUN 2020 16:30:14

Date: 26 JUN 2020 16:30:01

Middle Channel / Full RB

Middle Channel / Full RB

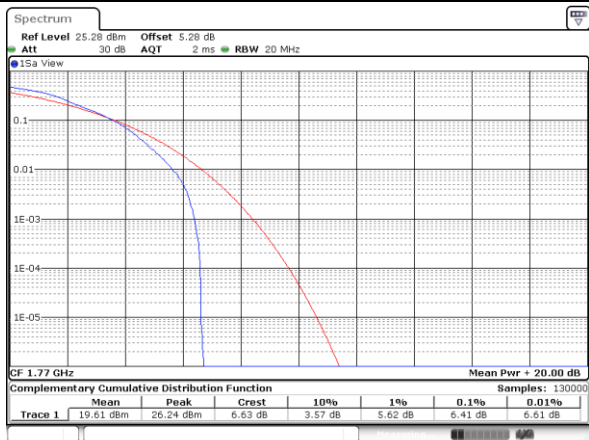


Date: 26 JUN 2020 16:43:44

Date: 26 JUN 2020 16:43:58

Highest Channel / Full RB

Highest Channel / Full RB



Date: 26 JUN 2020 16:48:47

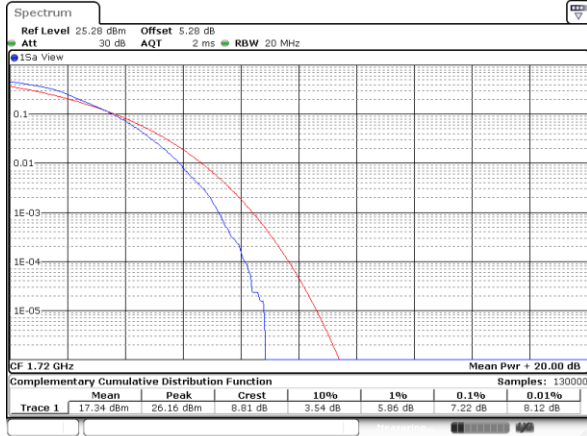
Date: 26 JUN 2020 16:49:10



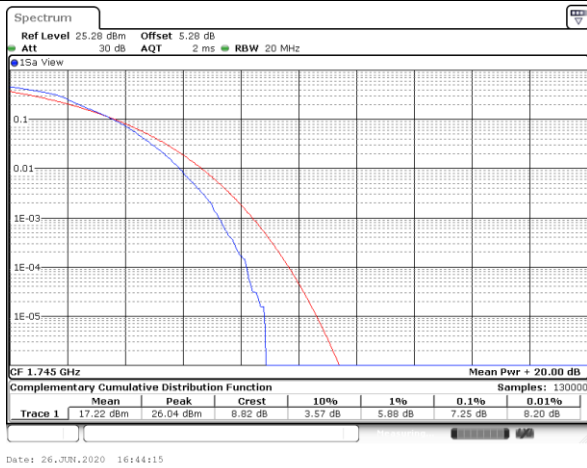
FR1 n66 / 20MHz / DFT-S OFDM

256QAM

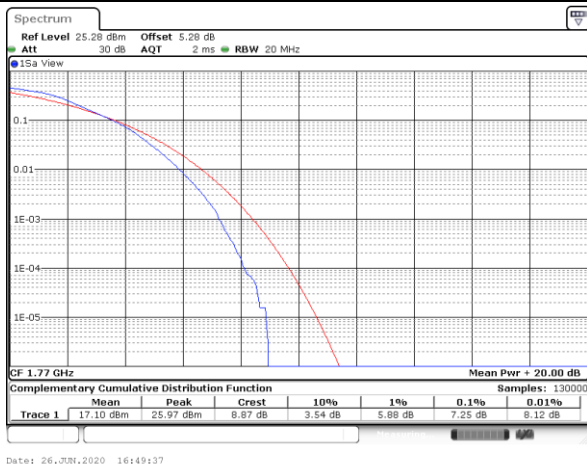
Lowest Channel / Full RB



Middle Channel / Full RB



Highest Channel / Full RB





26dB Bandwidth

| Mode | FR1 n66 : 26dB BW(MHz) / DFT-S OFDM | | | | | | | |
|------------|-------------------------------------|--|-----------|--|-----------|--|-----------|--|
| BW | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | PI/2 BPSK | | PI/2 BPSK | | PI/2 BPSK | | PI/2 BPSK | |
| Lowest CH | 5.13 | | 9.33 | | 14.42 | | 18.82 | |
| Middle CH | 5.00 | | 9.45 | | 14.54 | | 18.98 | |
| Highest CH | 4.88 | | 9.63 | | 14.24 | | 18.82 | |

| Mode | FR1 n66 : 26dB BW(MHz) / CP OFDM | | | | | | | |
|------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|
| BW | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | 4.98 | 5.17 | 10.13 | 9.99 | 15.02 | 14.96 | 19.94 | 20.14 |
| Middle CH | 5.19 | 4.96 | 10.13 | 10.11 | 15.11 | 14.99 | 19.90 | 19.78 |
| Highest CH | 5.02 | 5.15 | 10.11 | 9.81 | 14.96 | 14.84 | 19.74 | 19.70 |

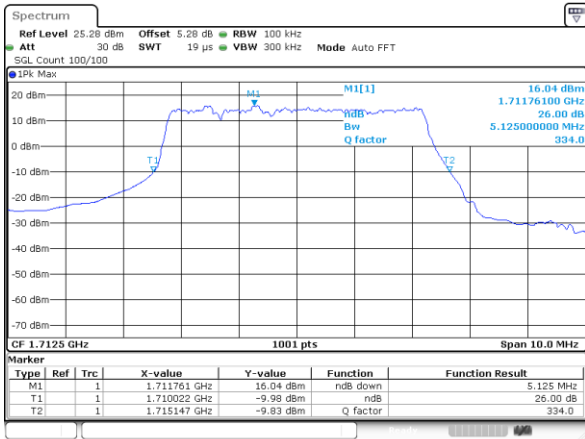
| Mode | FR1 n66 : 26dB BW(MHz) / CP OFDM | | | | | | | |
|------------|----------------------------------|--------|-------|--------|-------|--------|-------|--------|
| BW | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Lowest CH | 5.17 | 4.82 | 9.81 | 9.83 | 14.99 | 14.84 | 19.82 | 19.82 |
| Middle CH | 5.19 | 5.11 | 9.81 | 9.79 | 15.02 | 15.11 | 19.82 | 19.82 |
| Highest CH | 5.17 | 5.15 | 9.91 | 10.09 | 14.93 | 15.02 | 20.10 | 19.86 |



FR1 n66 / 5MHz / DFT-S OFDM

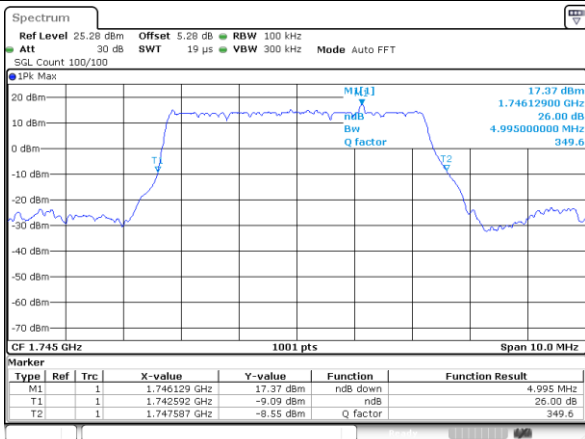
PI/2 BPSK

Lowest Channel



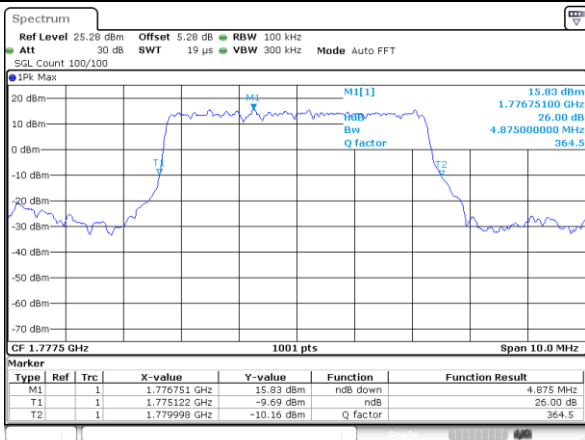
Date: 26 JUN 2020 17:28:27

Middle Channel



Date: 26 JUN 2020 17:33:02

Highest Channel



Date: 26 JUN 2020 17:36:45



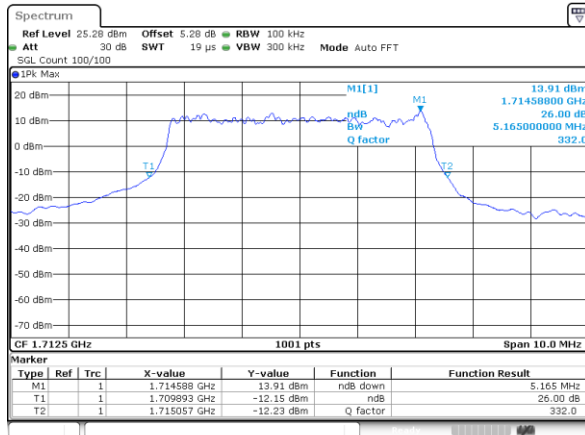
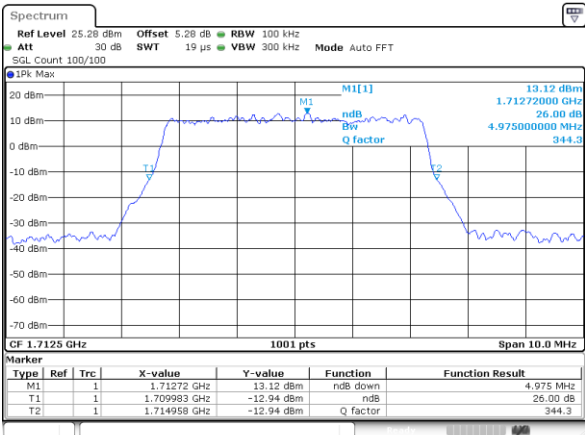
FR1 n66 / 5MHz / CP OFDM

QPSK

16QAM

Lowest Channel

Lowest Channel

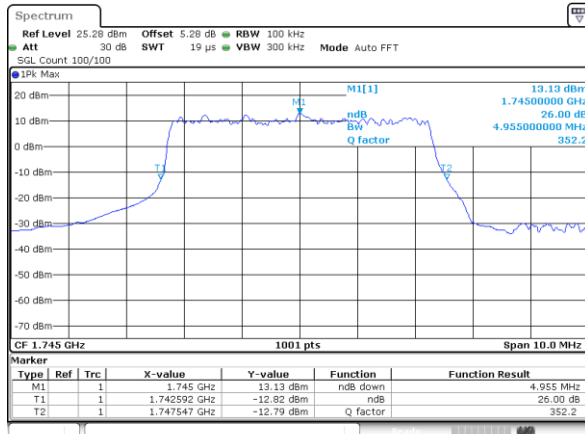
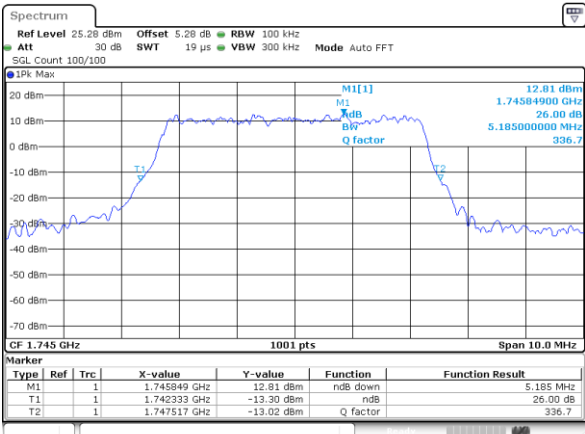


Date: 26 JUN 2020 17:29:04

Date: 26 JUN 2020 17:29:34

Middle Channel

Middle Channel

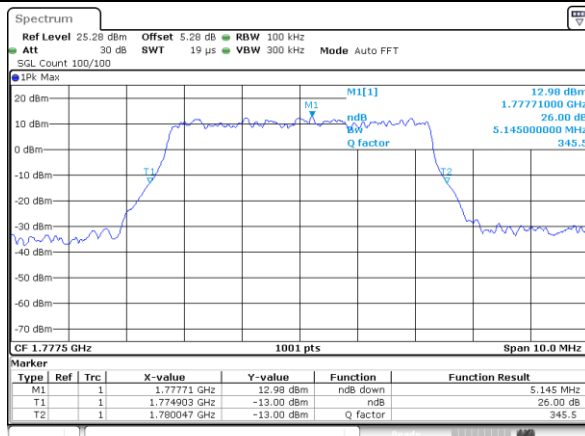
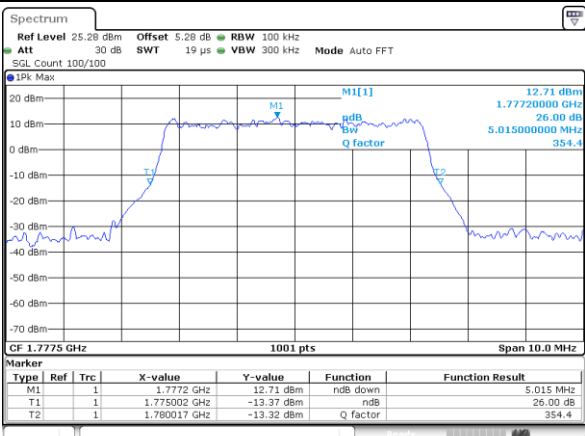


Date: 26 JUN 2020 17:32:24

Date: 26 JUN 2020 17:32:05

Highest Channel

Highest Channel



Date: 26 JUN 2020 17:37:22

Date: 26 JUN 2020 17:37:42



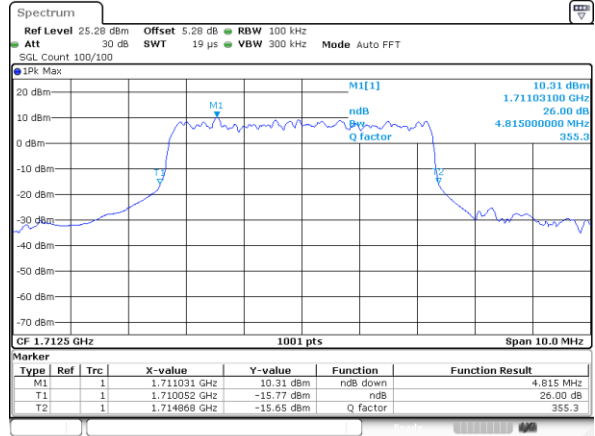
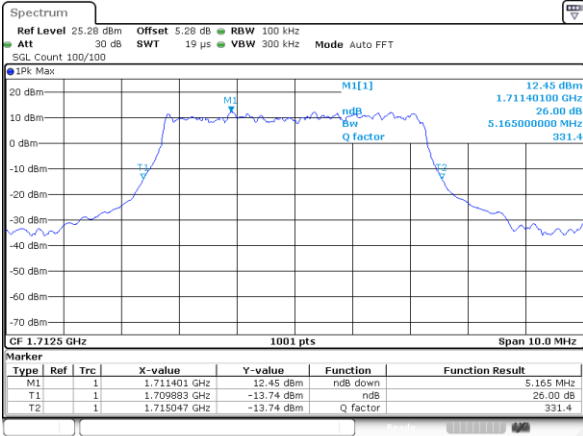
FR1 n66 / 5MHz / CP OFDM

64QAM

256QAM

Lowest Channel

Lowest Channel

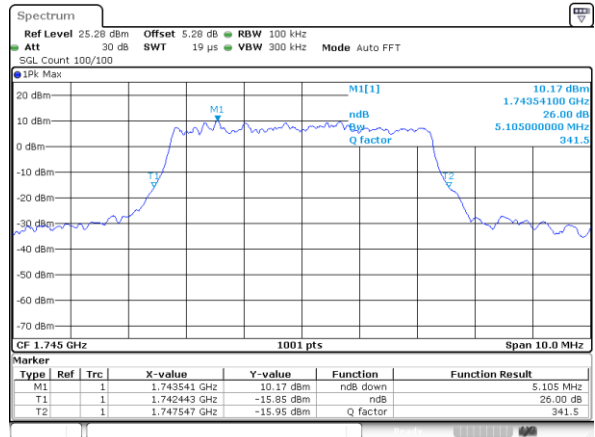
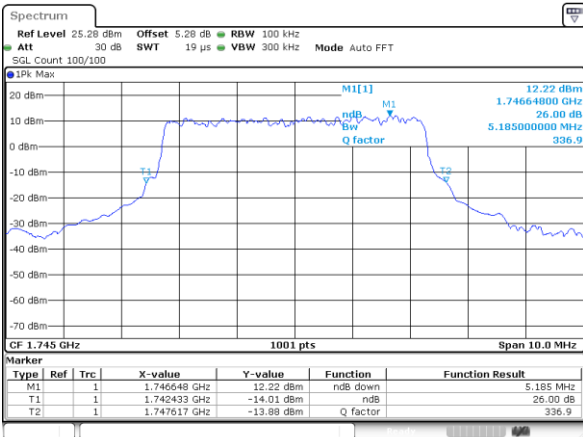


Date: 26 JUN 2020 17:30:06

Date: 26 JUN 2020 17:30:36

Middle Channel

Middle Channel

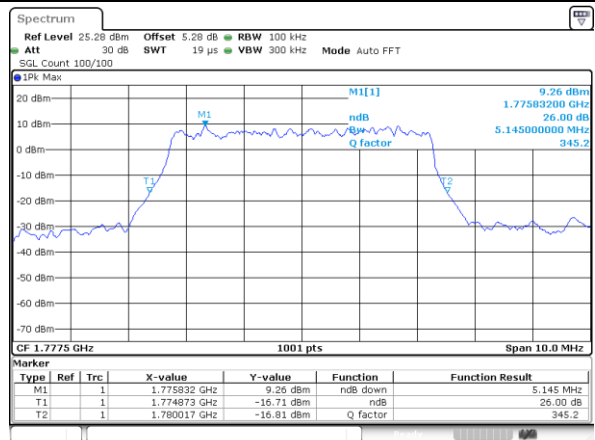
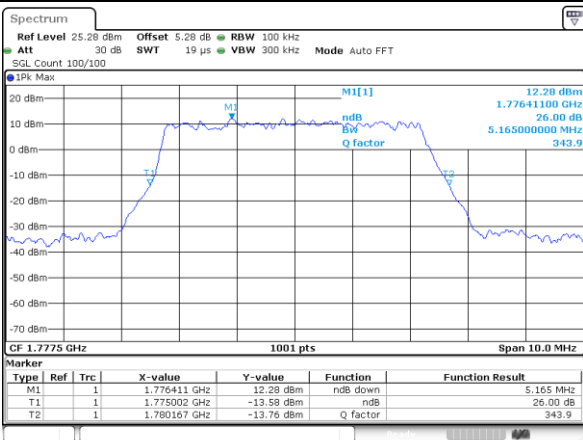


Date: 26 JUN 2020 17:31:41

Date: 26 JUN 2020 17:31:13

Highest Channel

Highest Channel



Date: 26 JUN 2020 17:38:17

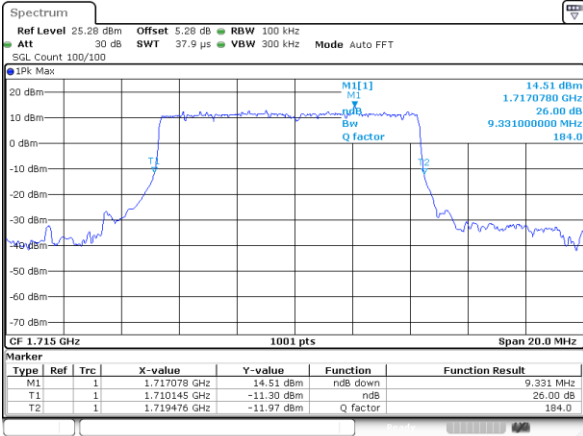
Date: 26 JUN 2020 17:39:09



FR1 n66 / 10MHz / DFT-S OFDM

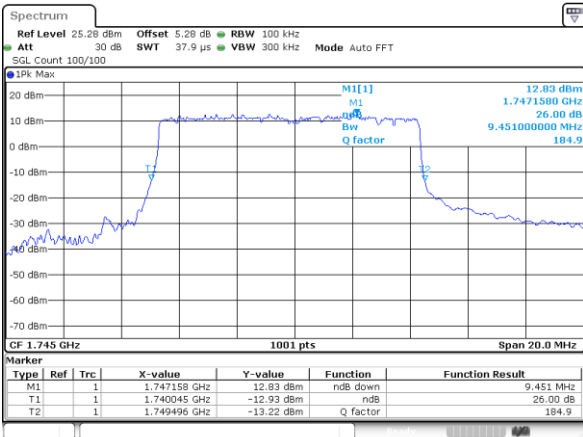
PI/2 BPSK

Lowest Channel



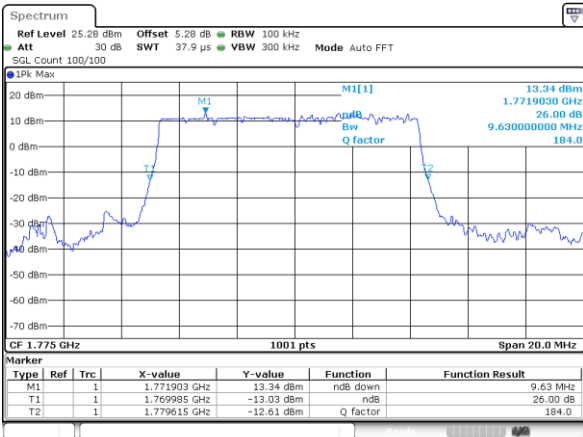
Date: 26 JUN 2020 17:10:28

Middle Channel



Date: 26 JUN 2020 17:10:39

Highest Channel



Date: 26 JUN 2020 17:19:14



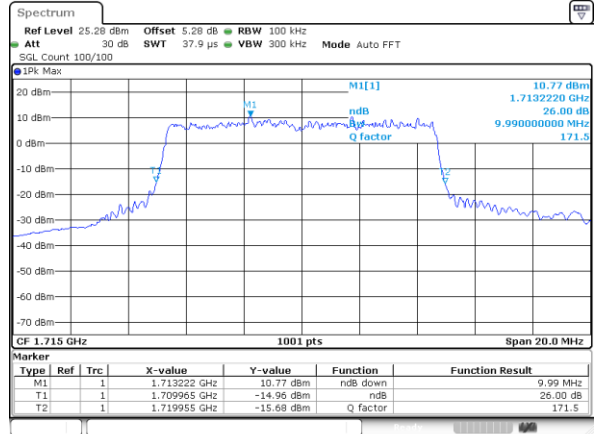
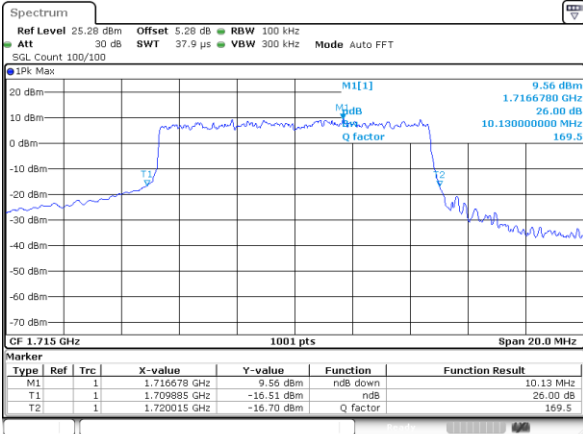
FR1 n66 / 10MHz / CP OFDM

QPSK

16QAM

Lowest Channel

Lowest Channel

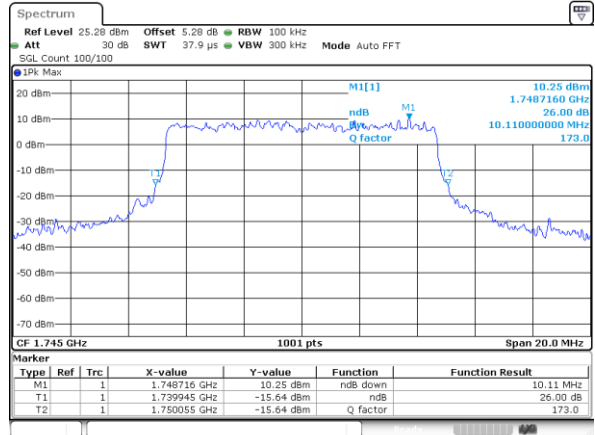
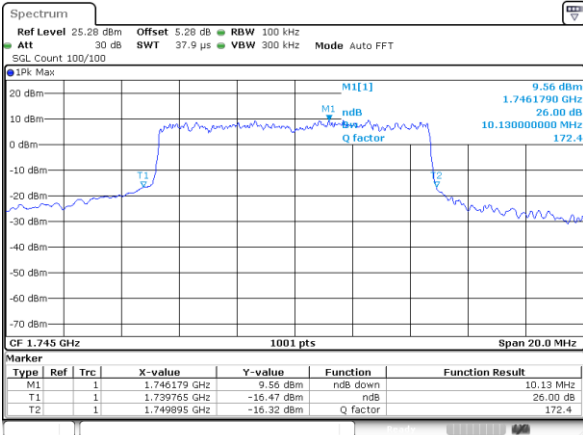


Date: 26 JUN 2020 17:05:14

Date: 26 JUN 2020 17:05:20

Middle Channel

Middle Channel

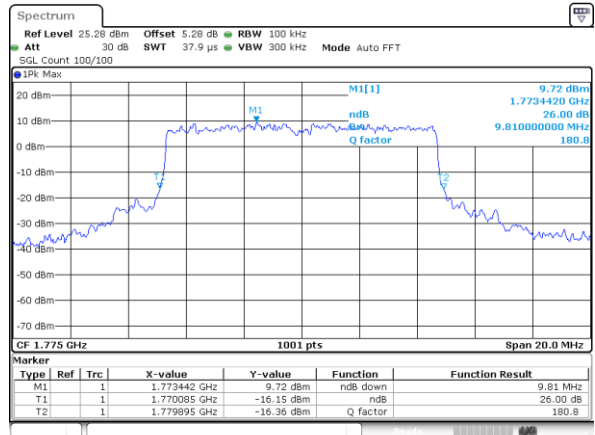
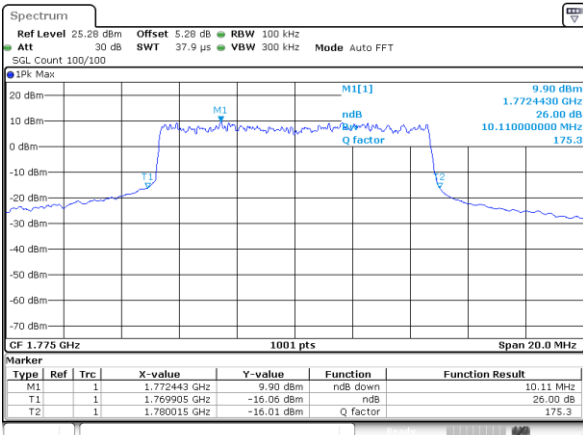


Date: 26 JUN 2020 17:11:14

Date: 26 JUN 2020 17:11:17

Highest Channel

Highest Channel



Date: 26 JUN 2020 17:16:41

Date: 26 JUN 2020 17:16:15



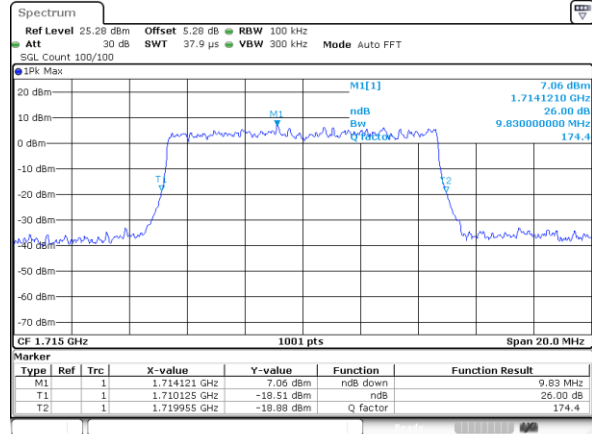
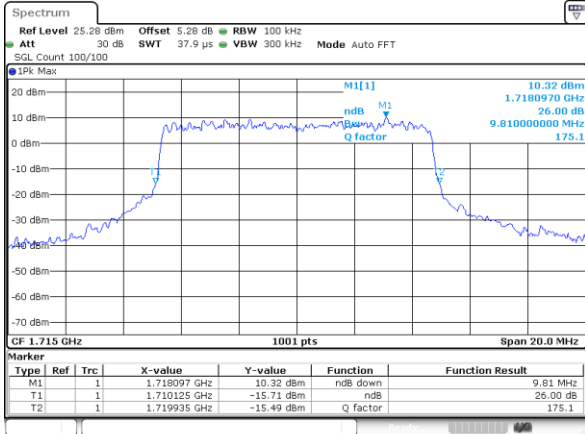
FR1 n66 / 10MHz / CP OFDM

64QAM

256QAM

Lowest Channel

Lowest Channel

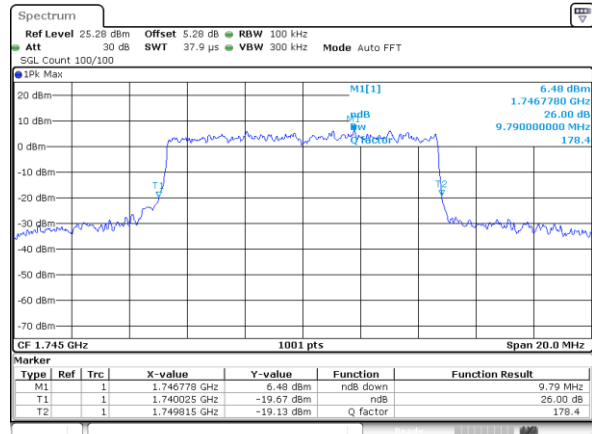
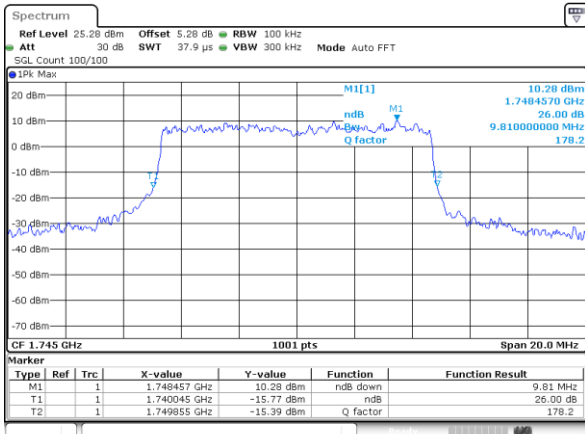


Date: 26 JUN 2020 17:05:02

Date: 26 JUN 2020 17:04:09

Middle Channel

Middle Channel

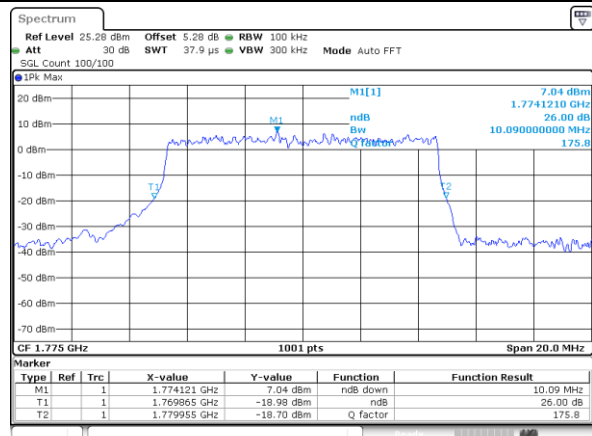
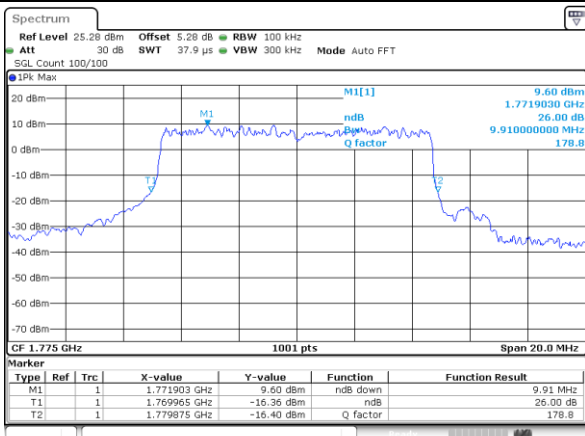


Date: 26 JUN 2020 17:11:57

Date: 26 JUN 2020 17:10:10

Highest Channel

Highest Channel



Date: 26 JUN 2020 17:15:40

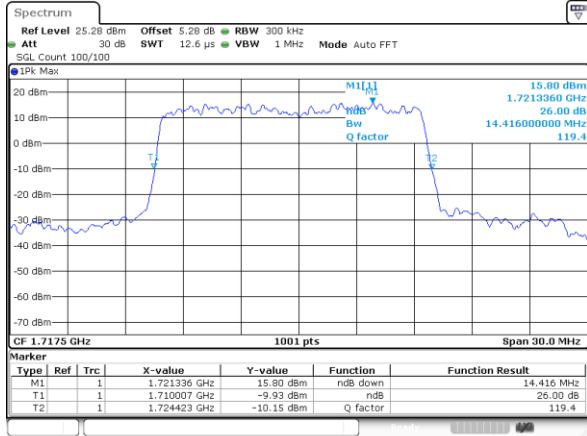
Date: 26 JUN 2020 17:14:17



FR1 n66 / 15MHz / DFT-S OFDM

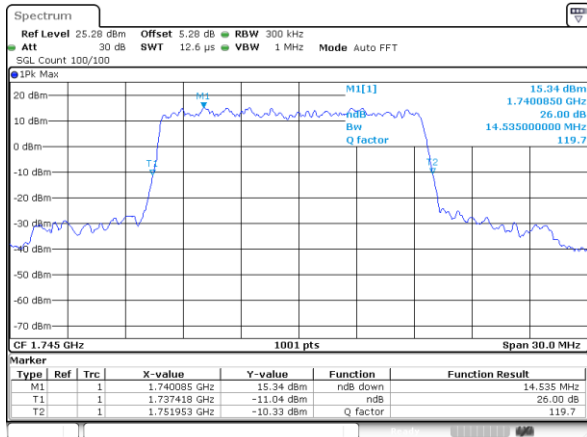
PI/2 BPSK

Lowest Channel



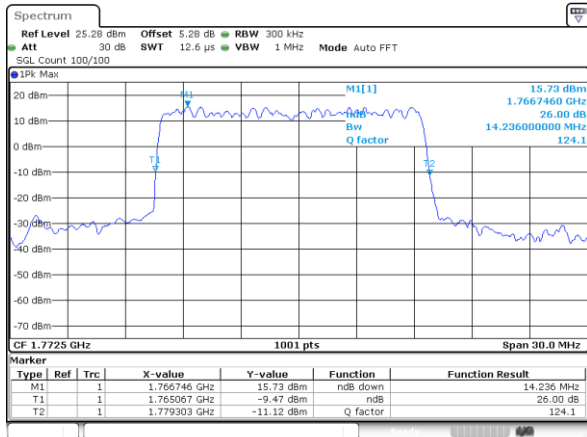
Date: 26 JUN 2020 16:52:22

Middle Channel



Date: 26 JUN 2020 16:56:57

Highest Channel



Date: 26 JUN 2020 17:01:06