

## **ANNEX I – MANUFACTURER-PROVIDED INFORMATION**

**Note:** The accuracy and precision of the following information provided by the manufacturer of the equipment under test has not been verified using test methods, cannot be verified, or is not necessary to verify.

N/A.

## **ANNEX II – MEASUREMENT DATA**

**NOTE: The following tests were not repeated on the following grounds:**

- 1. No physical change has been made to EUT since certification.**
- 2. No change in software which alters these parameters has been made to EUT.**

**RF POWER OUTPUT**

**AUDIO FREQUENCY RESPONSE**

**LOW PASS FILTER RESPONSE**

**MODULATION LIMITING**

**FIELD STRENGTH OF SPURIOUS EMISSIONS**

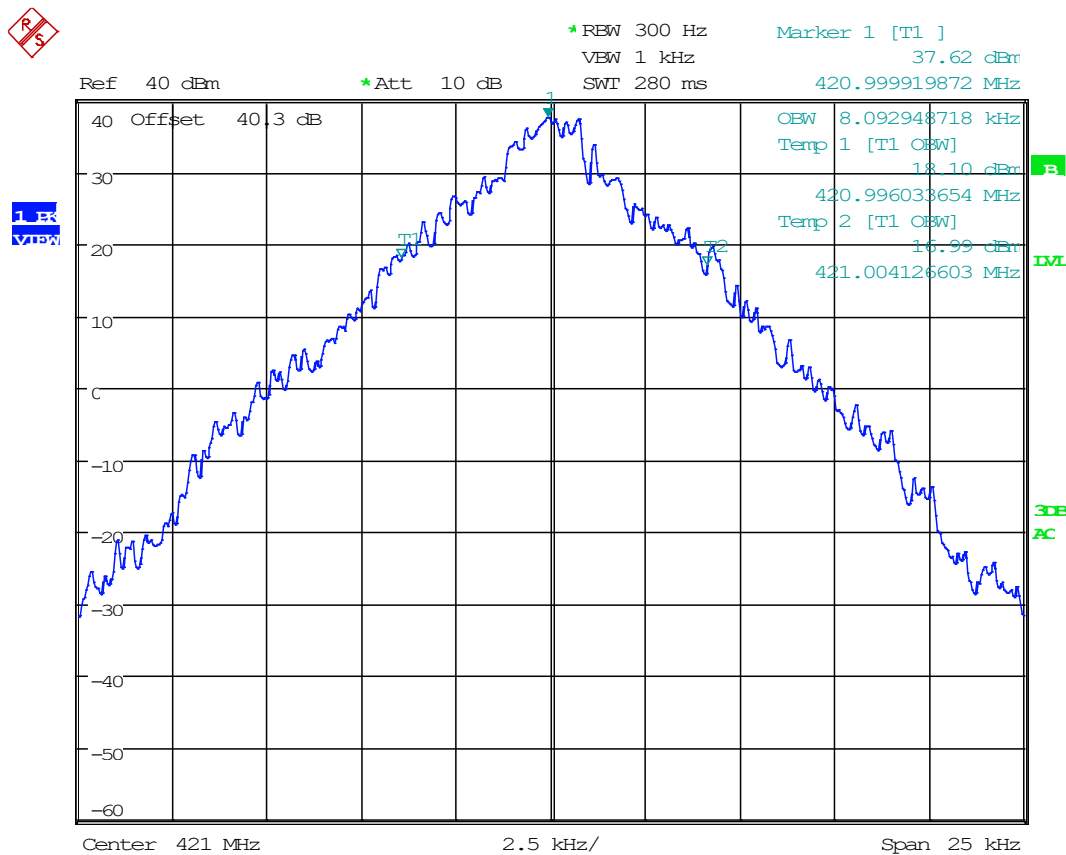
**FREQUENCY STABILITY**

**TRANSIENT FREQUENCY RESPONSE**

**OCCUPIED BANDWIDTH**

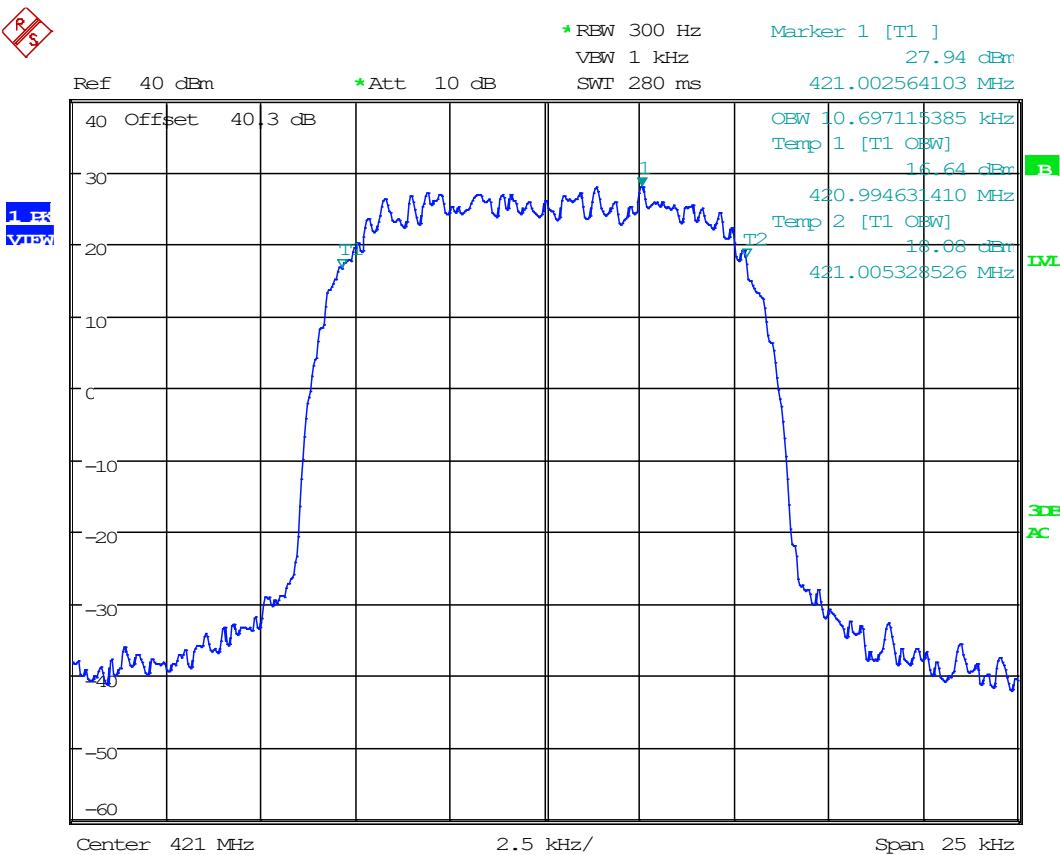
Test Engineer: FR, TR  
 Test Date: 05/08/2020

| Description                            | Calculated bandwidth, kHz | Maximum Measured Bandwidth, kHz |
|----------------------------------------|---------------------------|---------------------------------|
| 12.5 kHz Channel (GMSK)                | 8.5                       | 8.137                           |
| 12.5 kHz Channel (4QAM/16QAM/64QAM)    | 11.2                      | 10.978                          |
| 25 kHz Channel (4QAM/16QAM/64QAM)      | 16.0                      | 15.946                          |
| Wide 25 kHz Channel (4QAM/16QAM/64QAM) | 21.9                      | 21.795                          |

**OCCUPIED BANDWIDTH (421.000MHz, 12.5k, GMSK)**

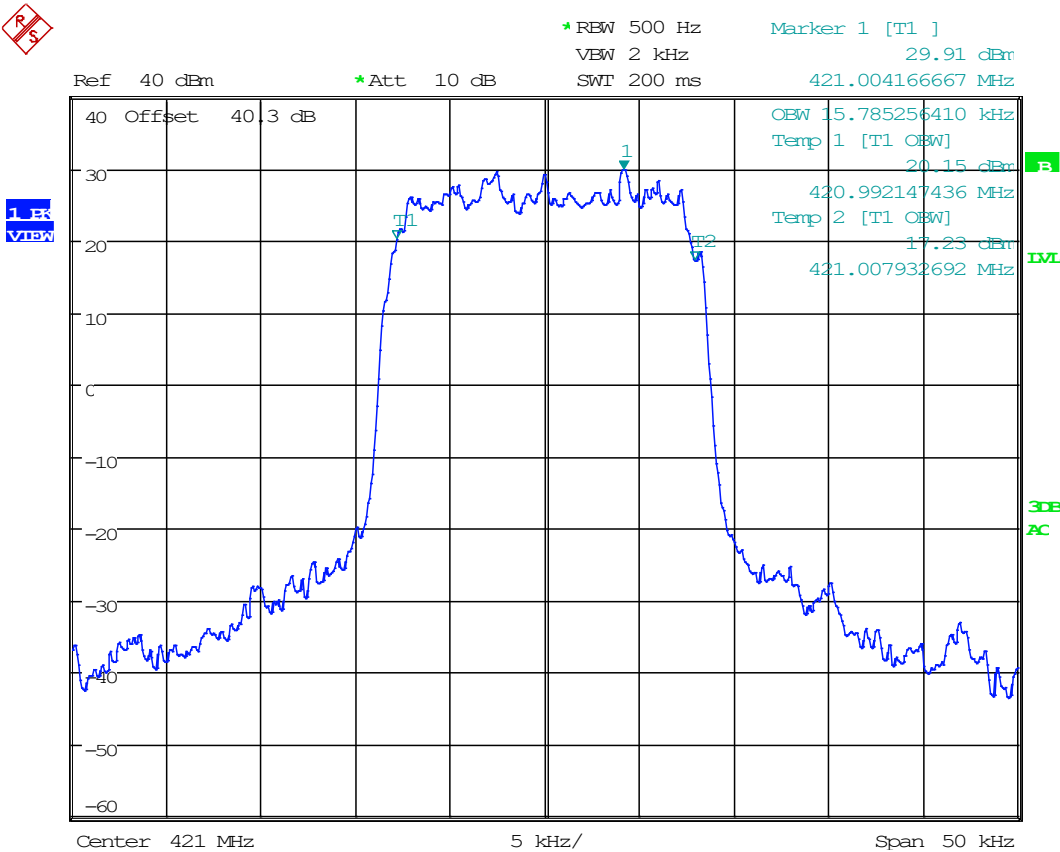
Date: 12.MAY.2020 12:25:22

**OCCUPIED BANDWIDTH (421.000MHz, 12.5k, 4QAM)**



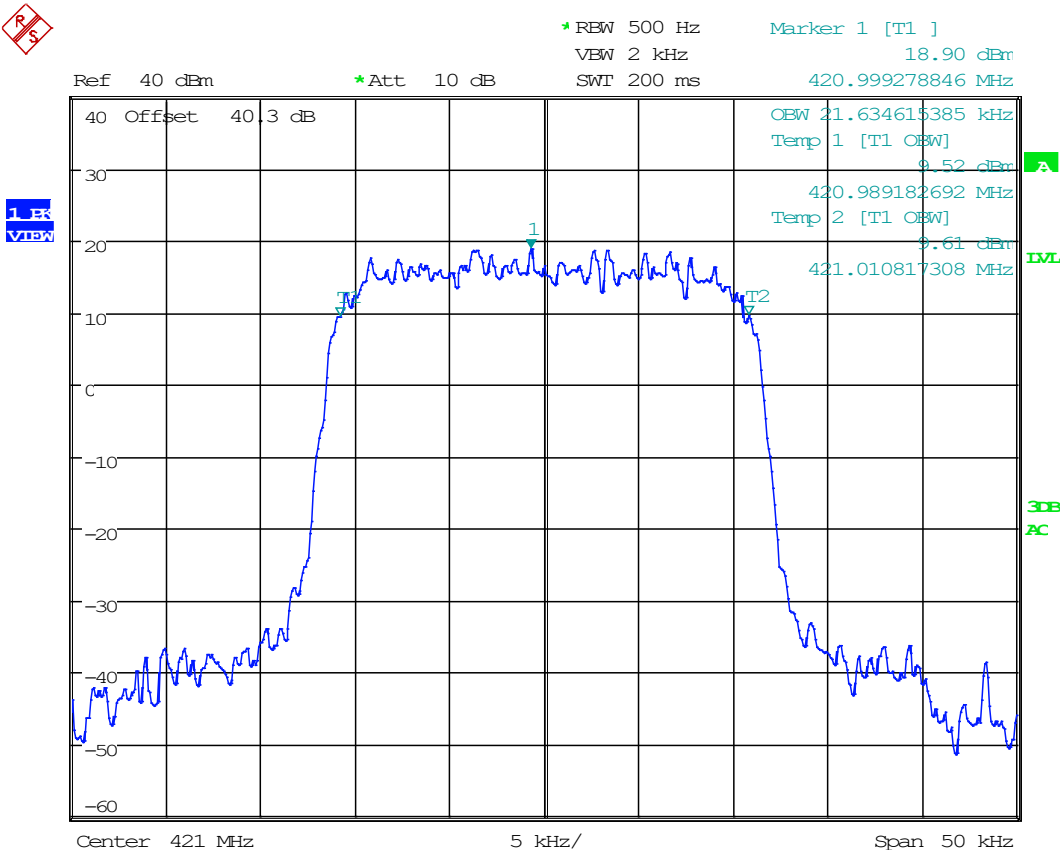
Date: 11.MAY.2020 13:22:32

**OCCUPIED BANDWIDTH (421.000MHz, 25k, 4QAM)**

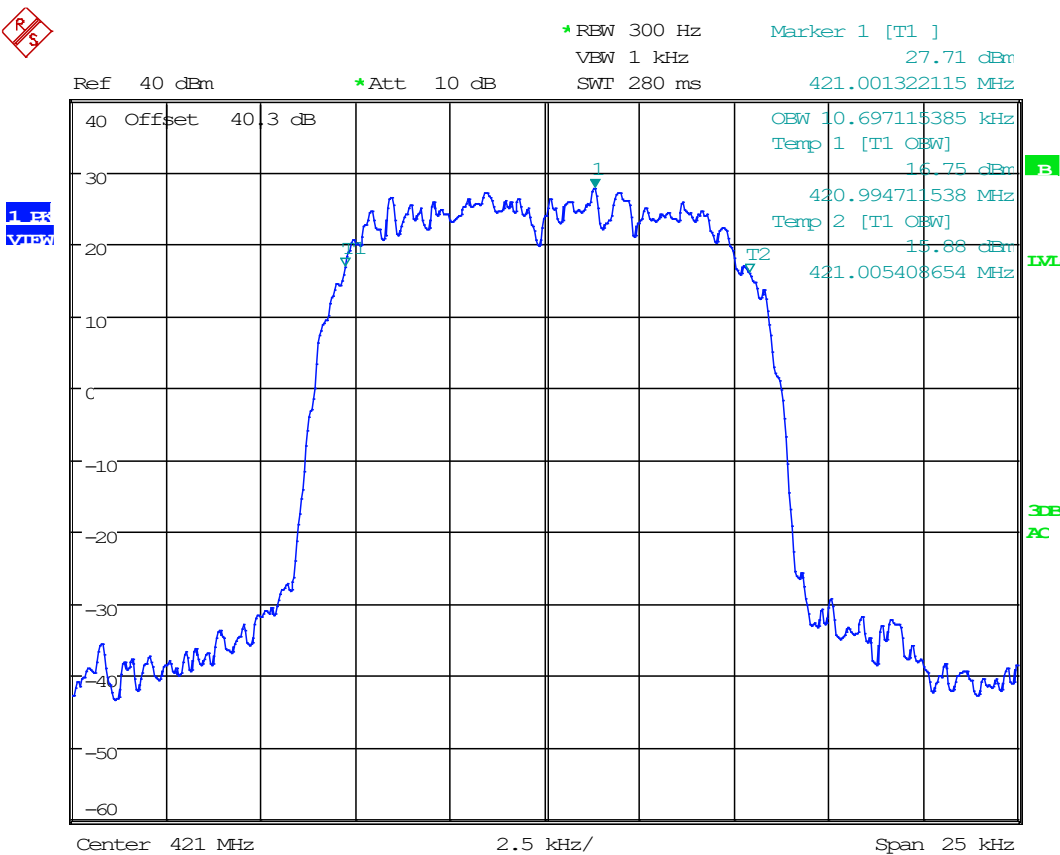


Date: 12.MAY.2020 11:10:37

**OCCUPIED BANDWIDTH (421.000MHz, 25k Wide, 4QAM)**

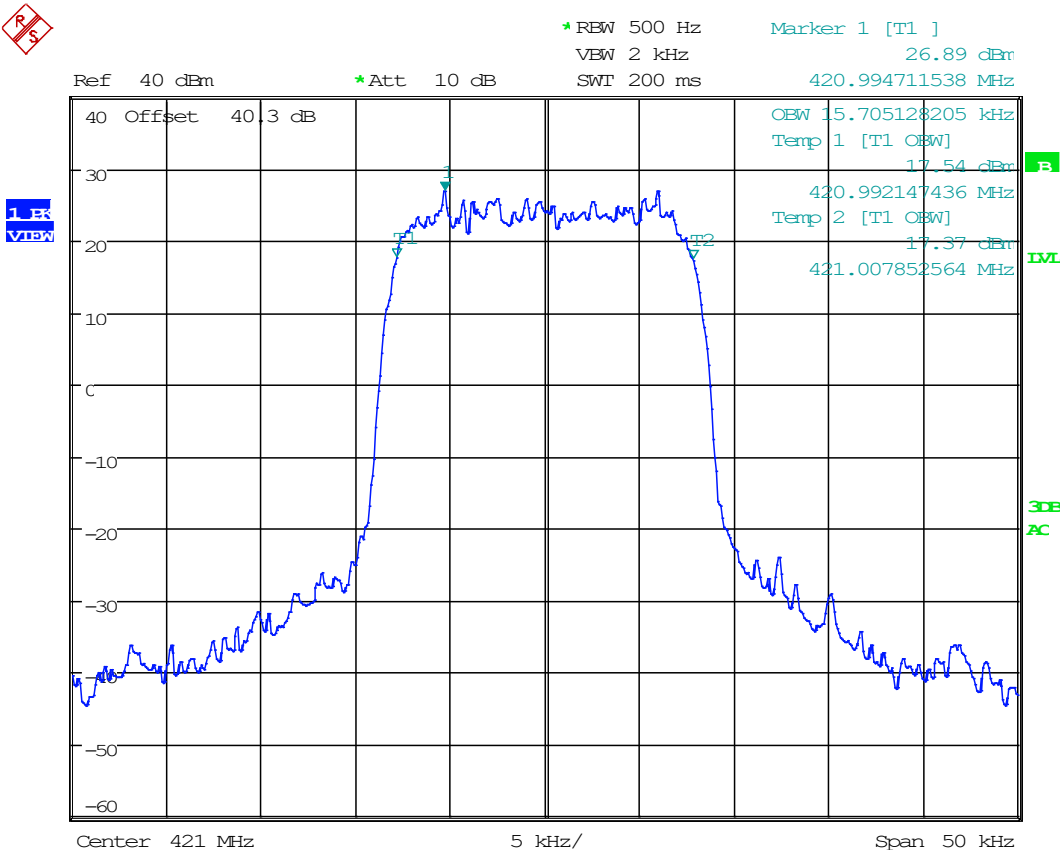


**OCCUPIED BANDWIDTH (421.000MHz, 12.5k, 16QAM)**



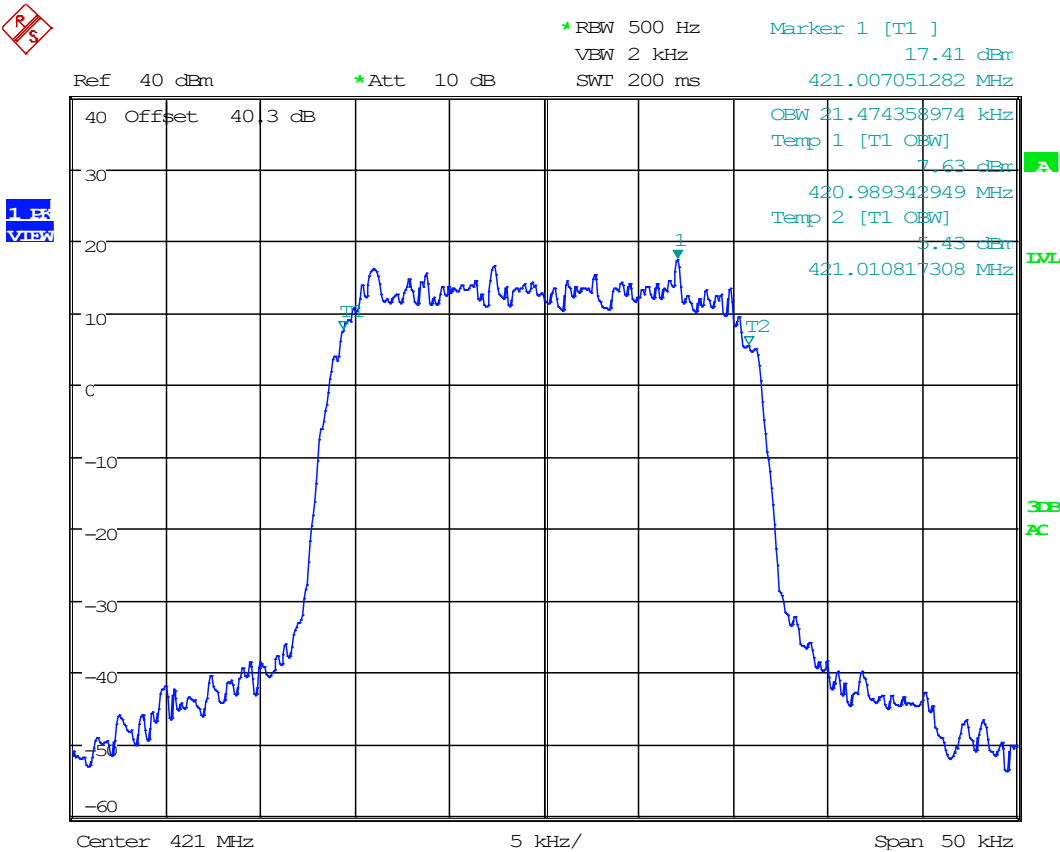
Date: 12.MAY.2020 10:45:03

**OCCUPIED BANDWIDTH (421.000MHz, 25k, 16QAM)**



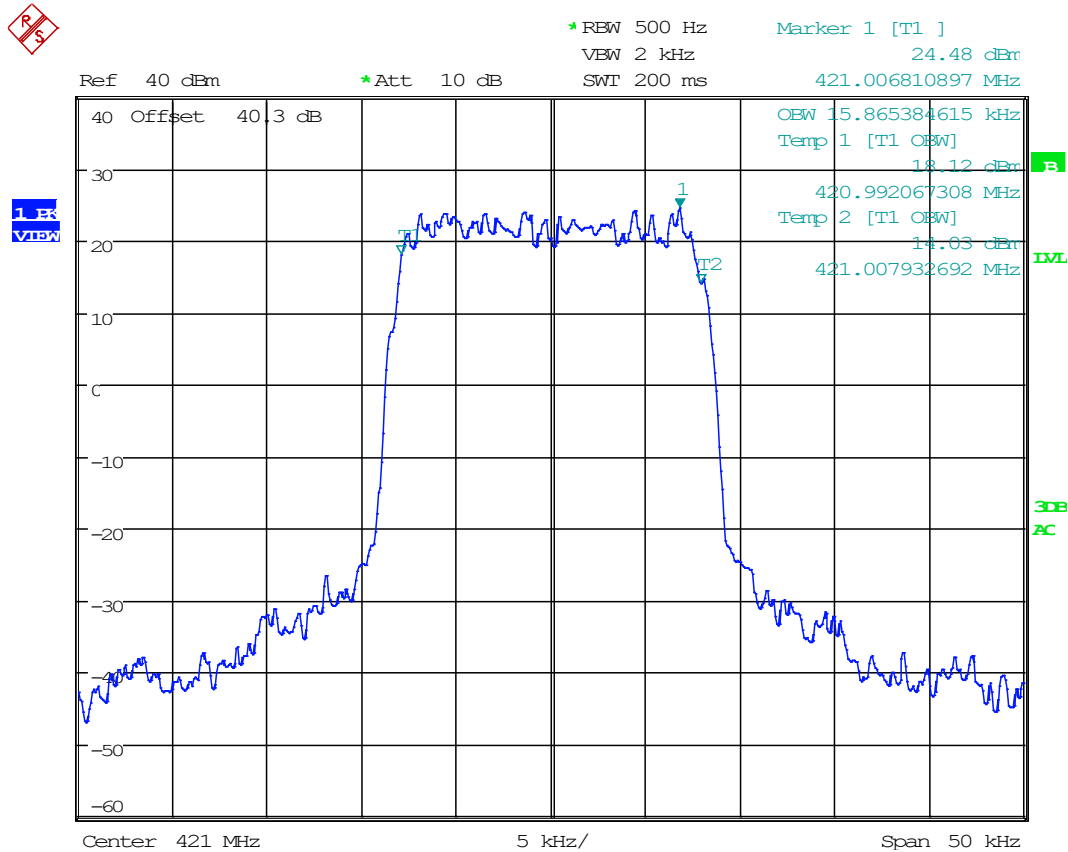
Date: 12.MAY.2020 11:24:18

**OCCUPIED BANDWIDTH (421.000MHz, 25k Wide, 16QAM)**



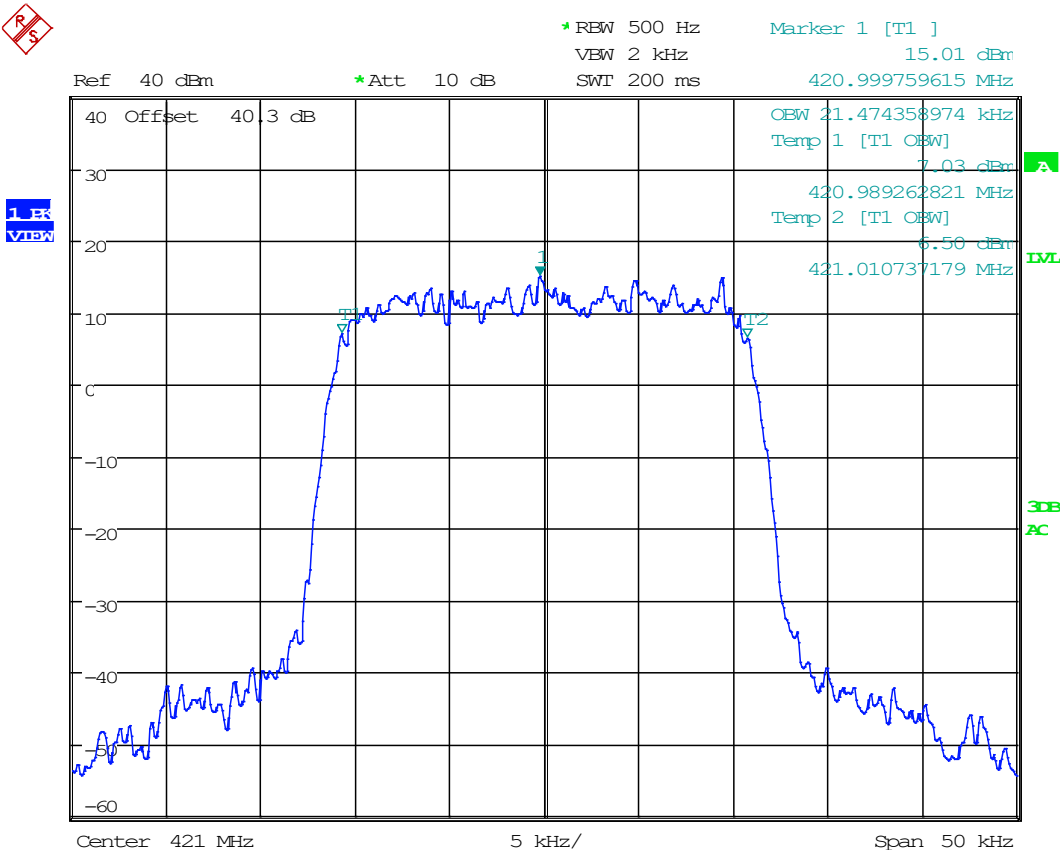
Date: 20.MAY.2020 13:04:05



**OCCUPIED BANDWIDTH (421.000MHz, 25k, 64QAM)**

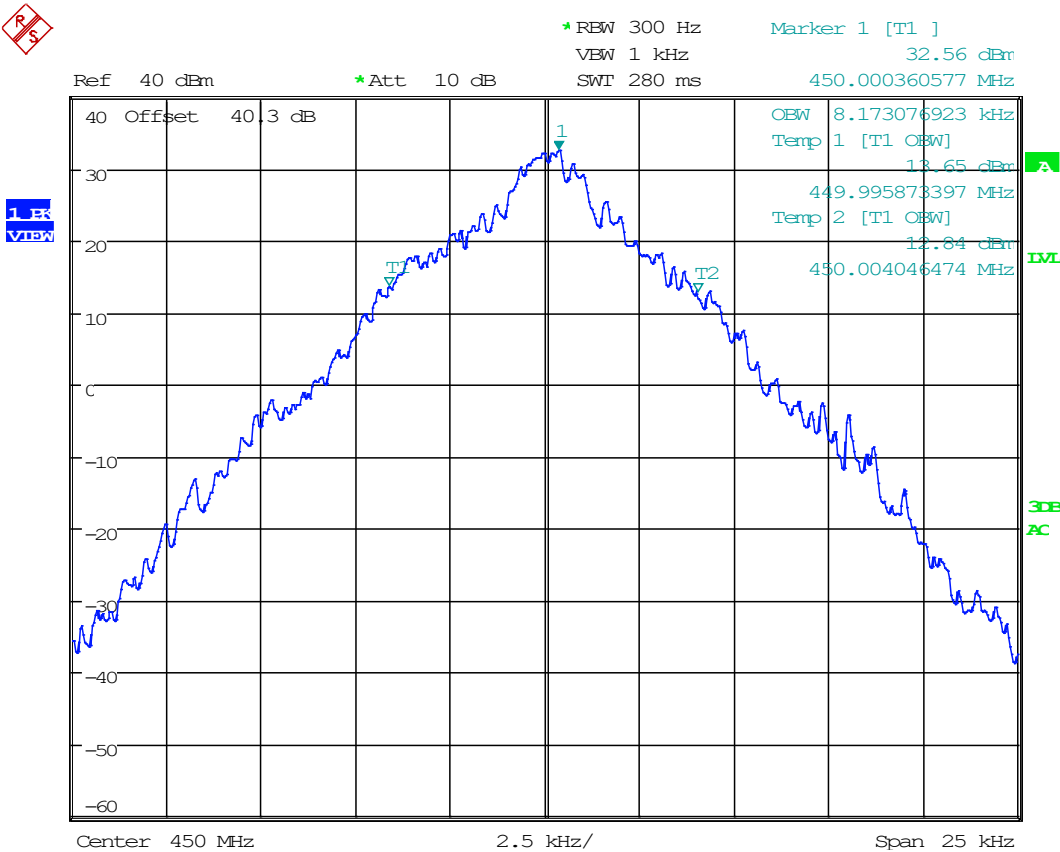
Date: 12.MAY.2020 11:35:12

**OCCUPIED BANDWIDTH (421.000MHz, 25k Wide, 64QAM)**



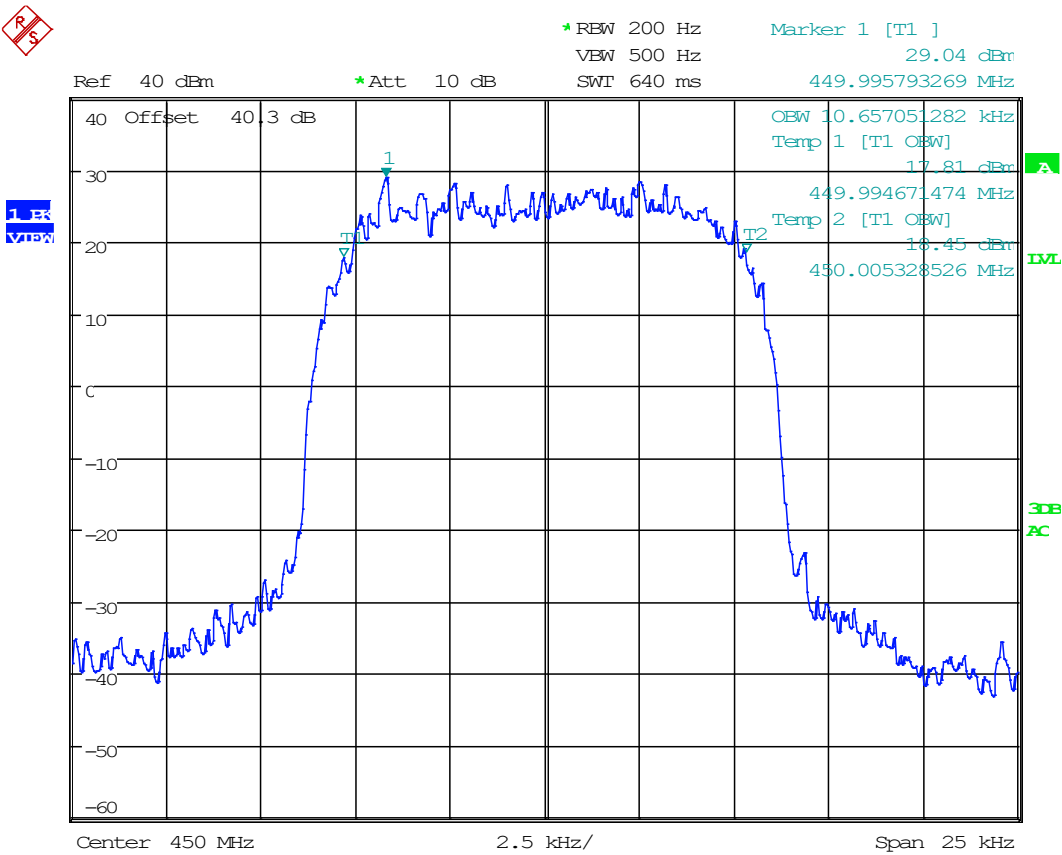
Date: 20.MAY.2020 13:11:45

**OCCUPIED BANDWIDTH (450.000MHz, 12.5k, GMSK)**



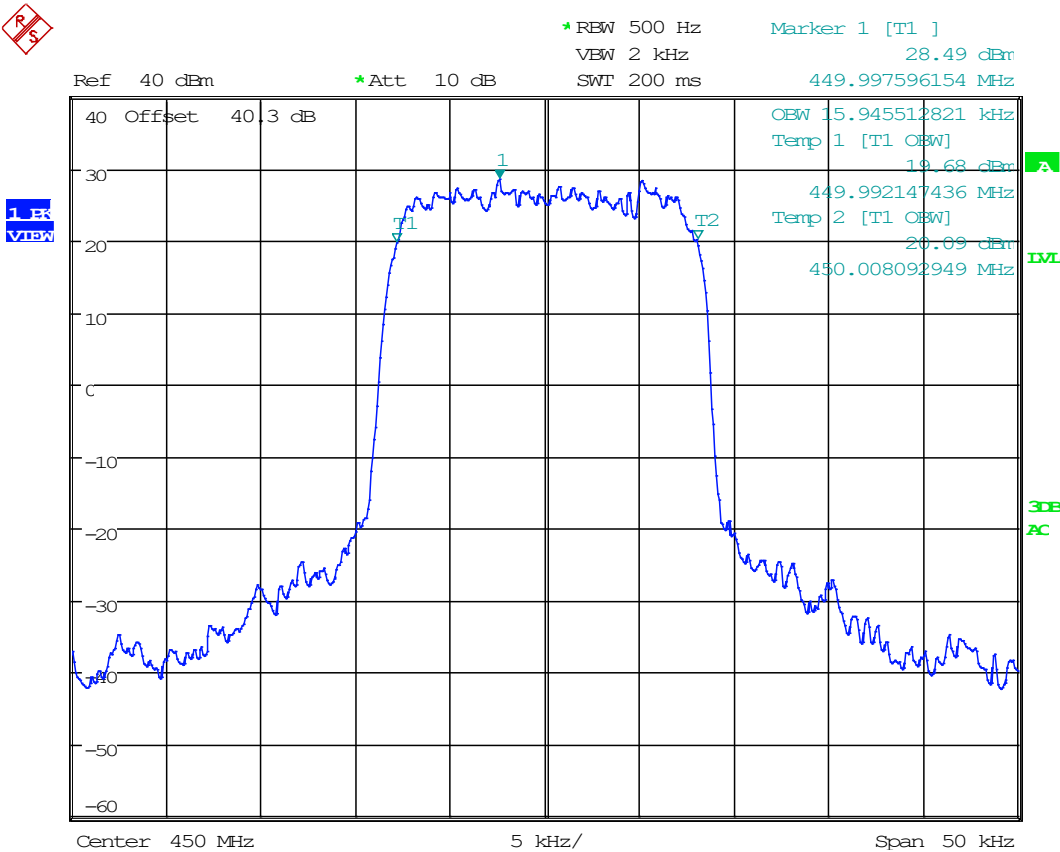
Date: 13.MAY.2020 10:26:29

**OCCUPIED BANDWIDTH (450.000MHz, 12.5k, 4QAM)**



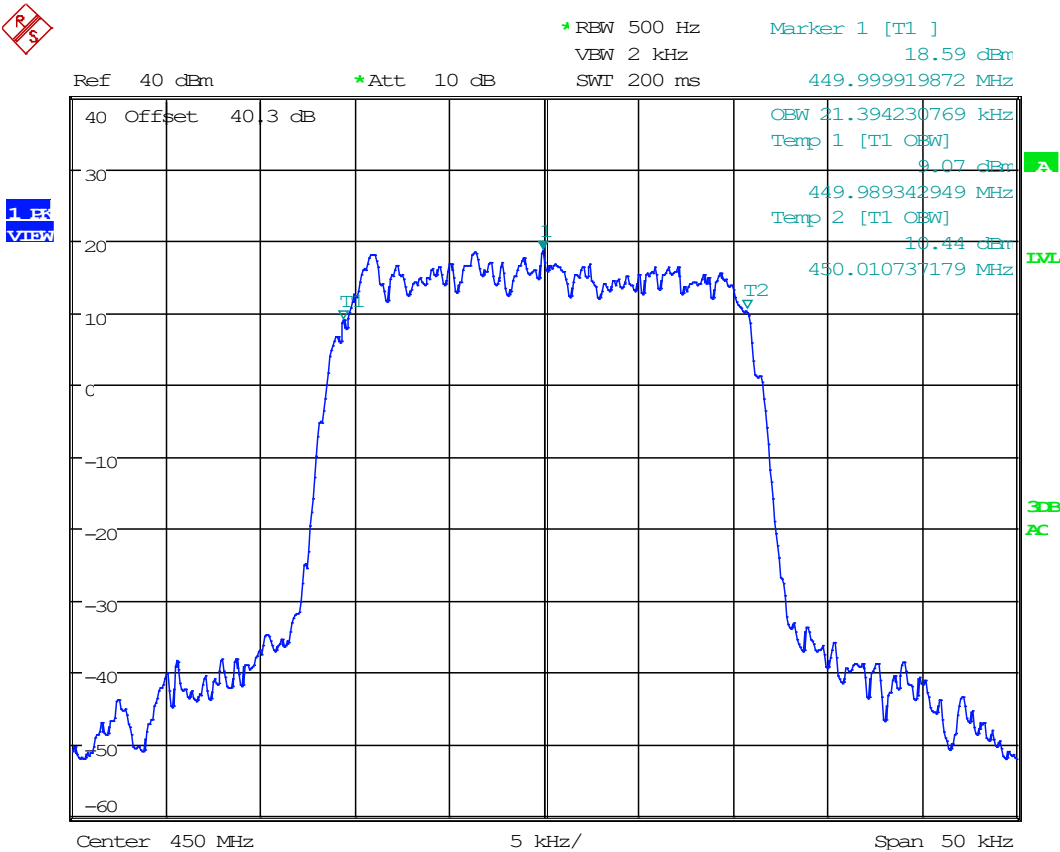
Date: 13.MAY.2020 10:51:41

**OCCUPIED BANDWIDTH (450.000MHz, 25k, 4QAM)**



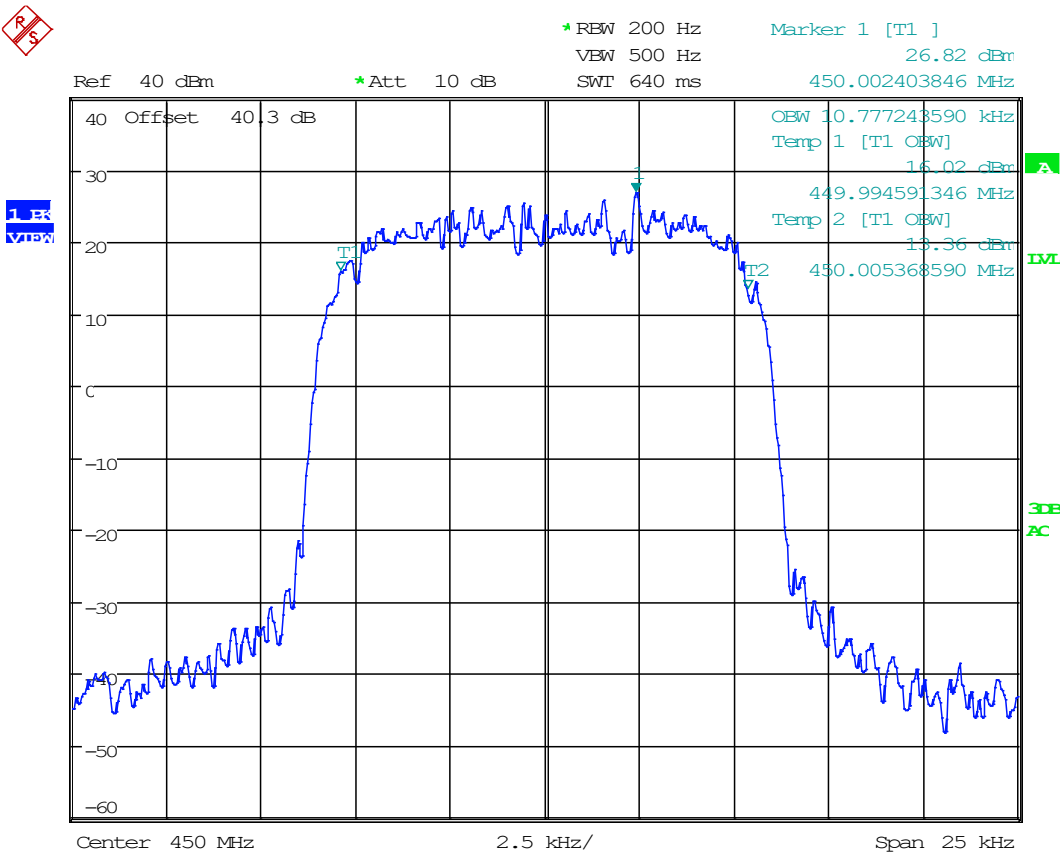
Date: 13.MAY.2020 11:27:39

**OCCUPIED BANDWIDTH (450.000MHz, 25k Wide, 4QAM)**



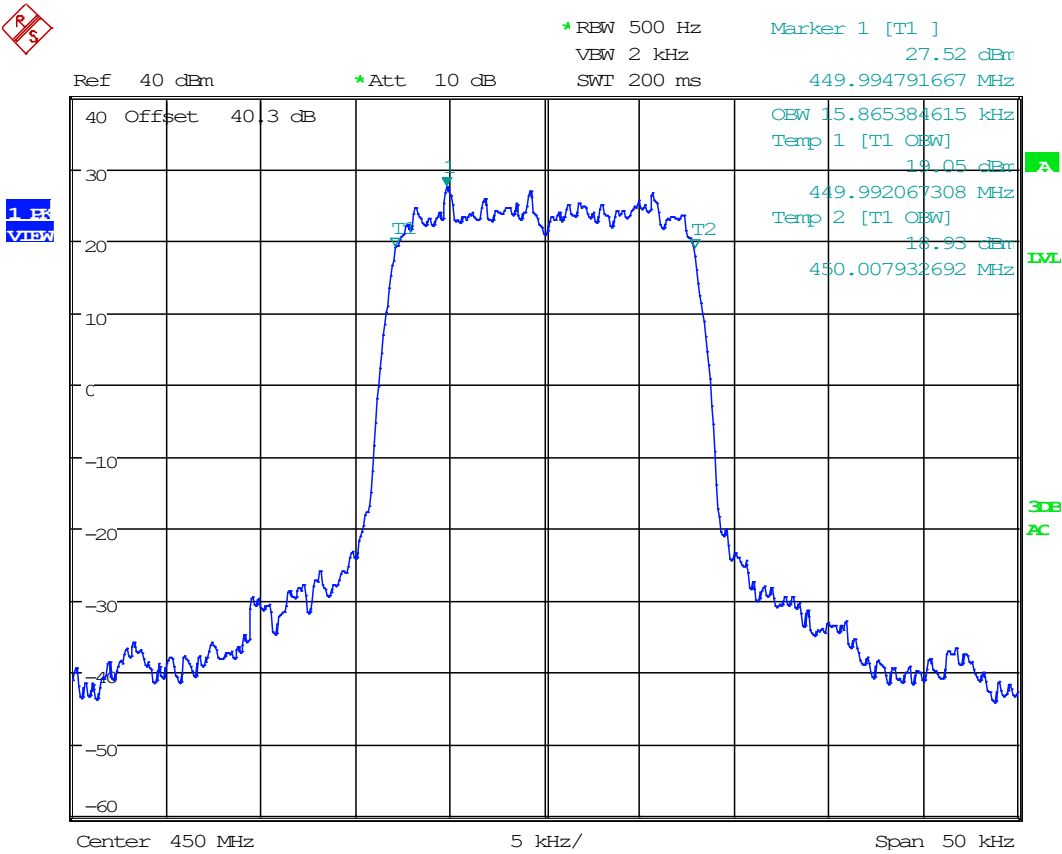
Date: 20.MAY.2020 12:29:06

**OCCUPIED BANDWIDTH (450.000MHz, 12.5k, 16QAM)**



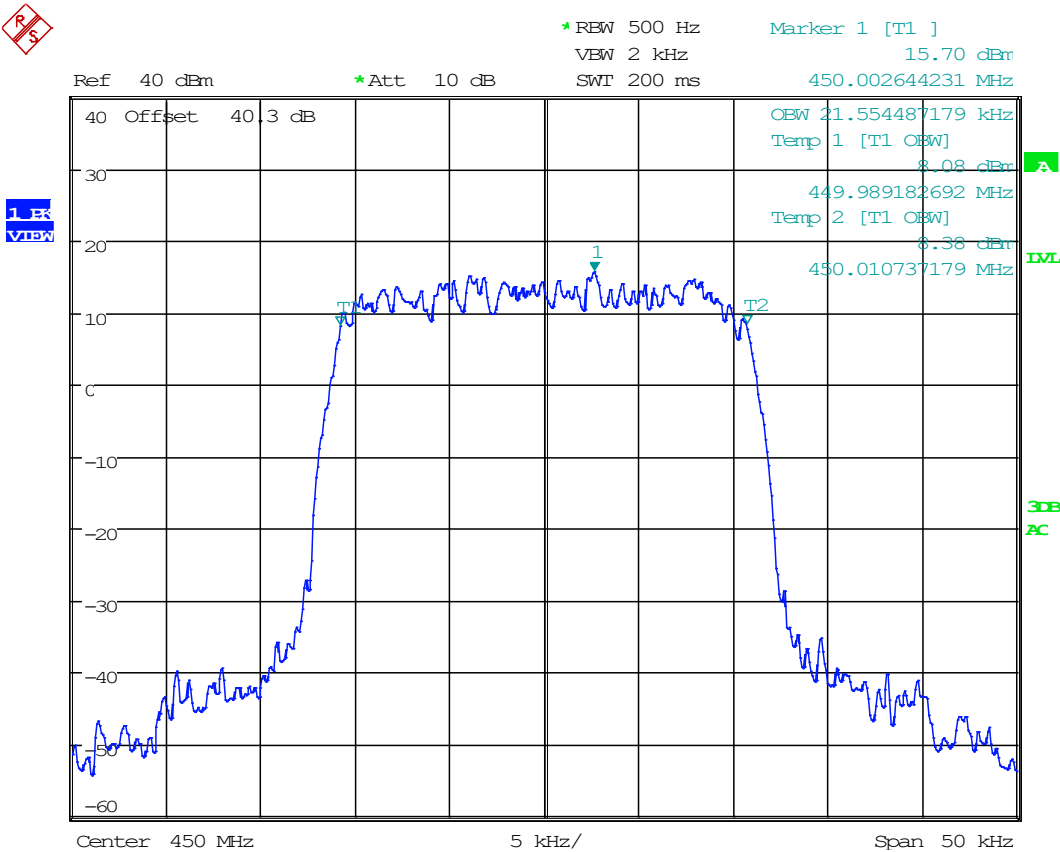
Date: 13.MAY.2020 11:14:36

**OCCUPIED BANDWIDTH (450.000MHz, 25k, 16QAM)**



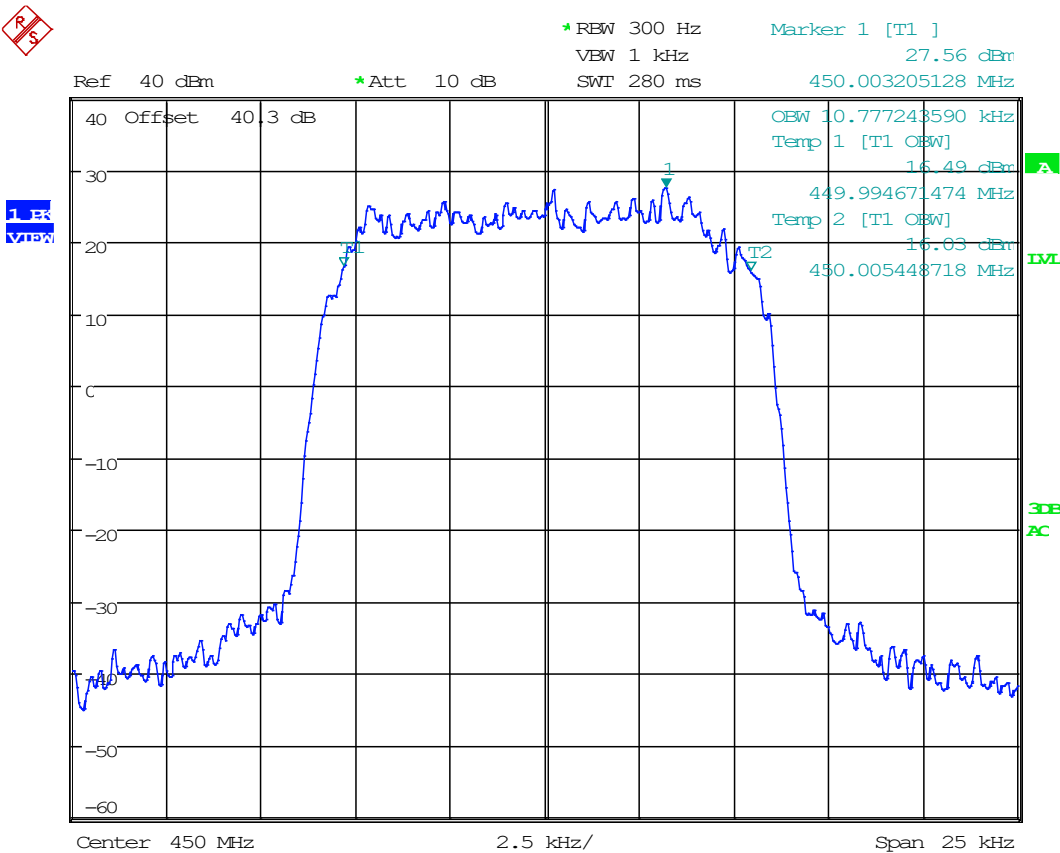
Date: 13.MAY.2020 11:41:32

**OCCUPIED BANDWIDTH (450.000MHz, 25k Wide, 16QAM)**



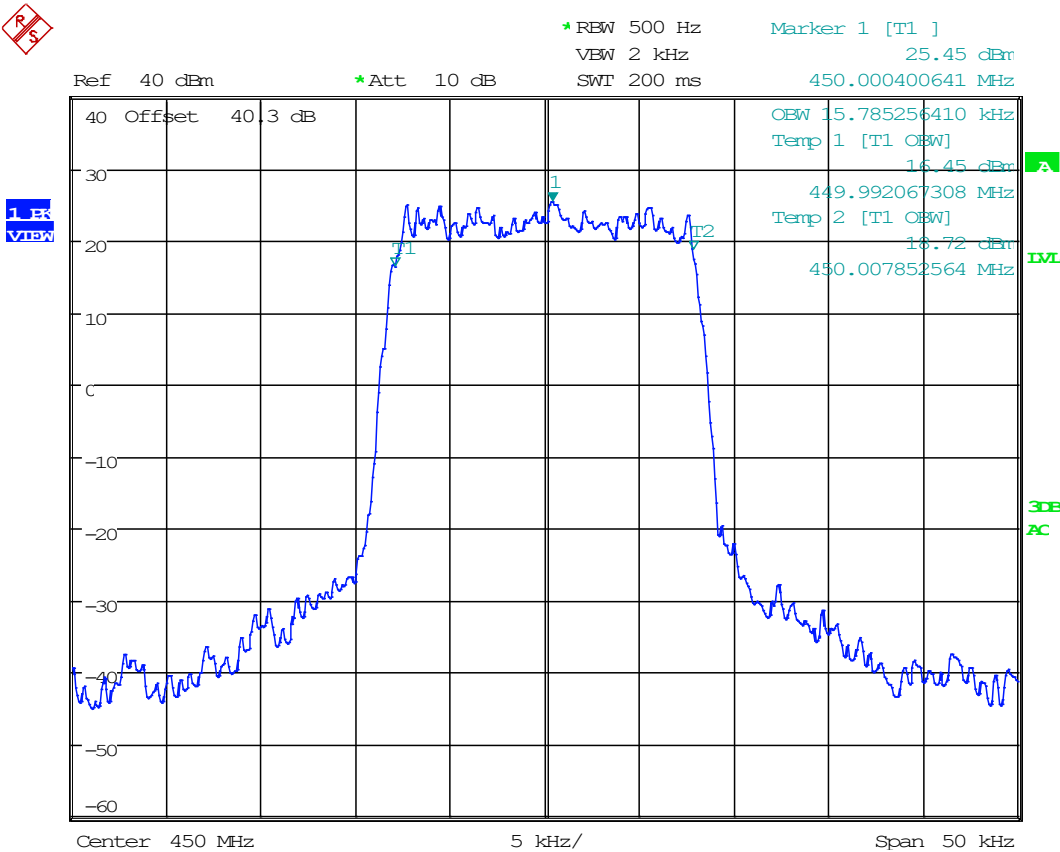
Date: 20.MAY.2020 12:39:01

**OCCUPIED BANDWIDTH (450.000MHz, 12.5k, 64QAM)**



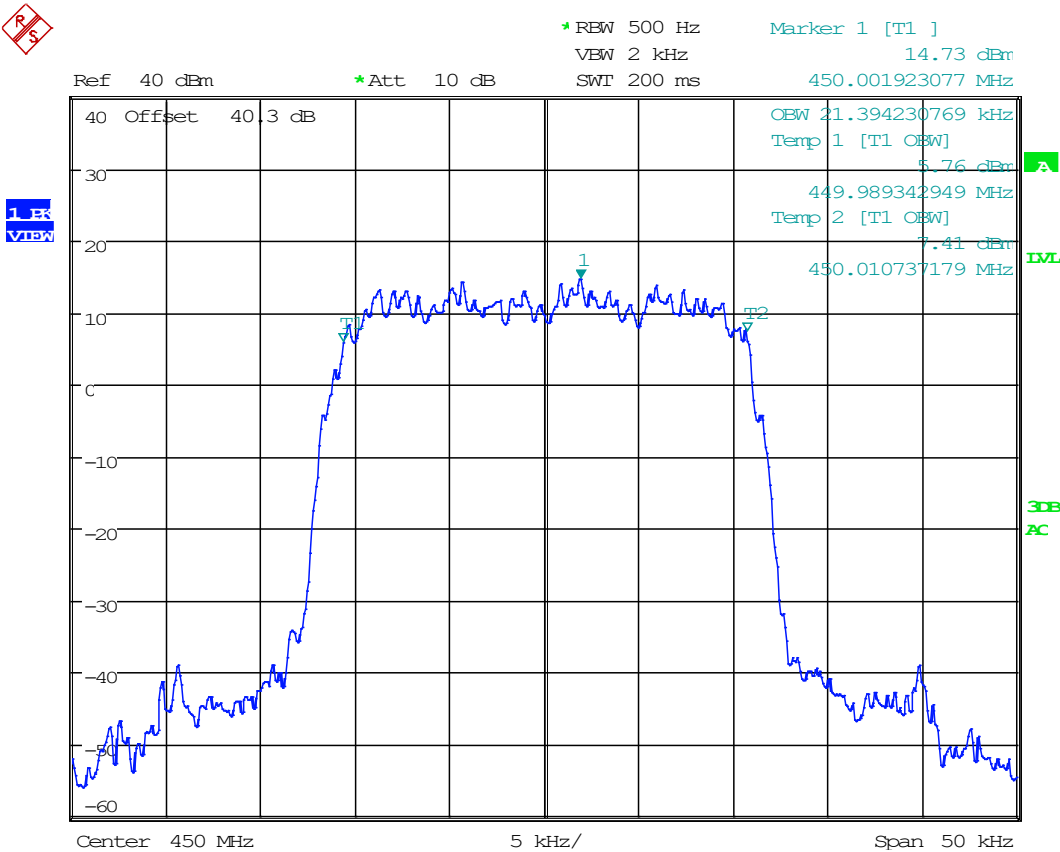
Date: 13.MAY.2020 11:24:16

**OCCUPIED BANDWIDTH (450.000MHz, 25k, 64QAM)**



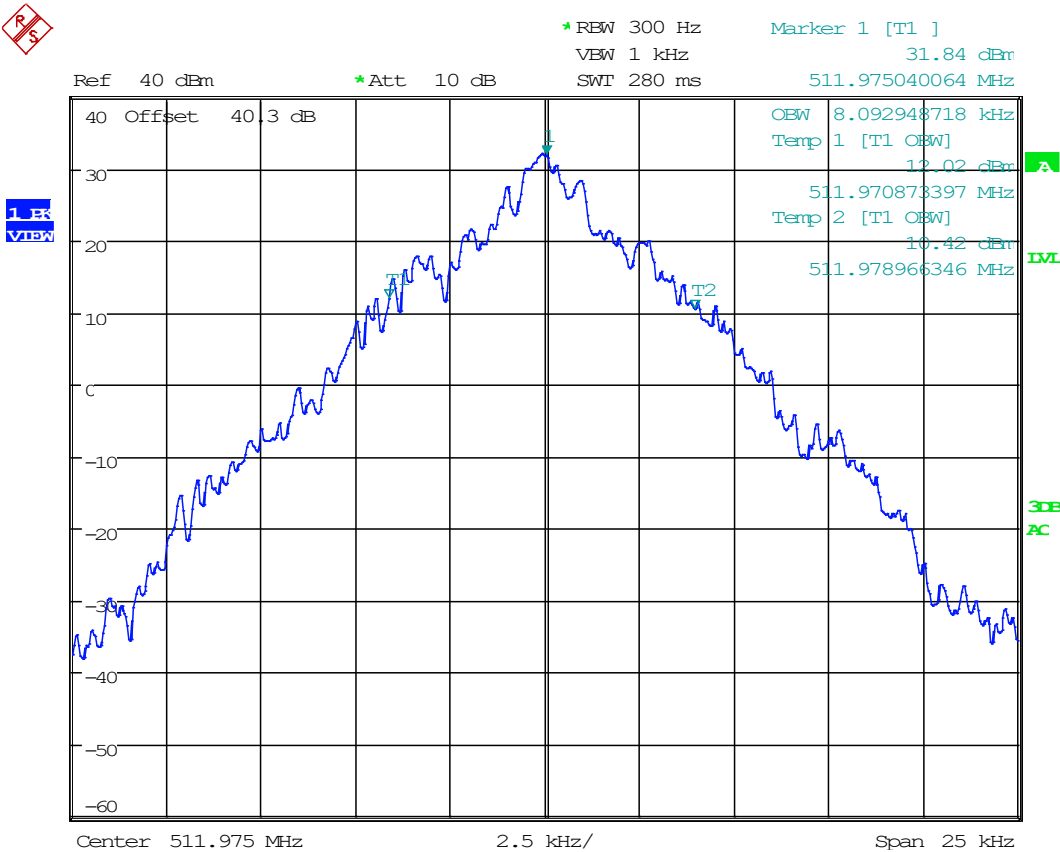
Date: 13.MAY.2020 11:54:27

**OCCUPIED BANDWIDTH (450.000MHz, 25k Wide, 64QAM)**



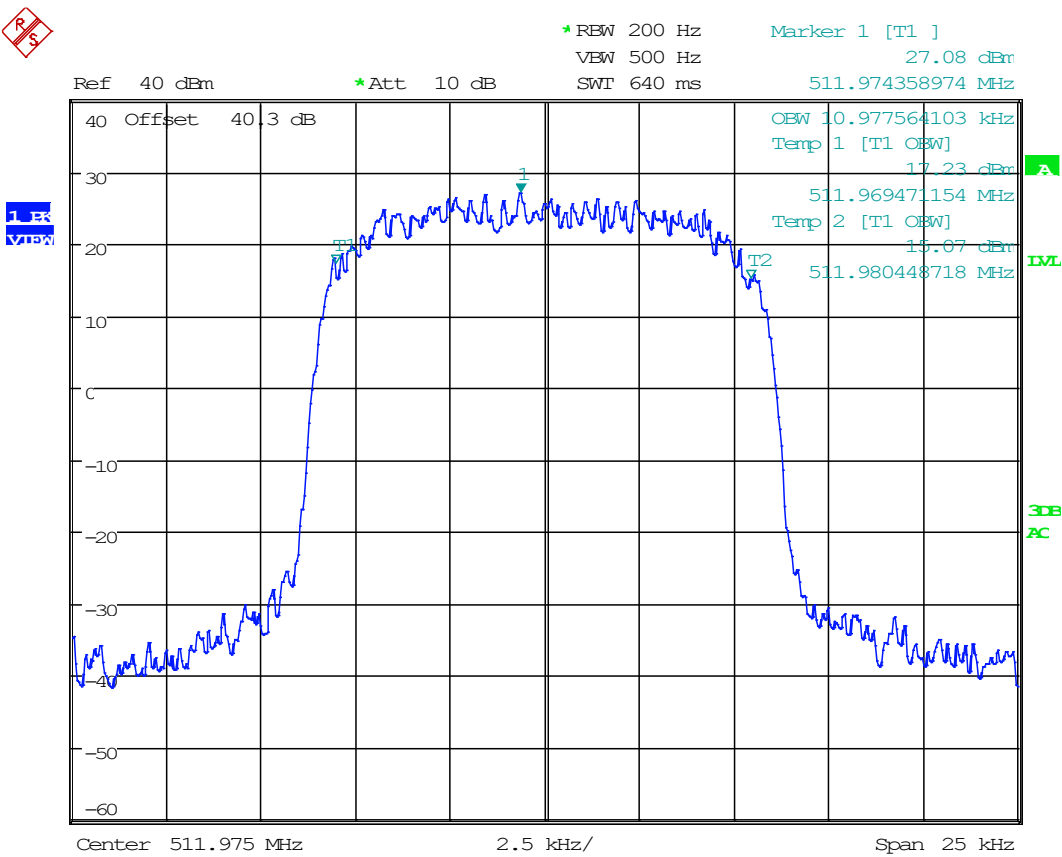
Date: 20.MAY.2020 12:43:52

**OCCUPIED BANDWIDTH (511.975MHz, 12.5k, GMSK)**



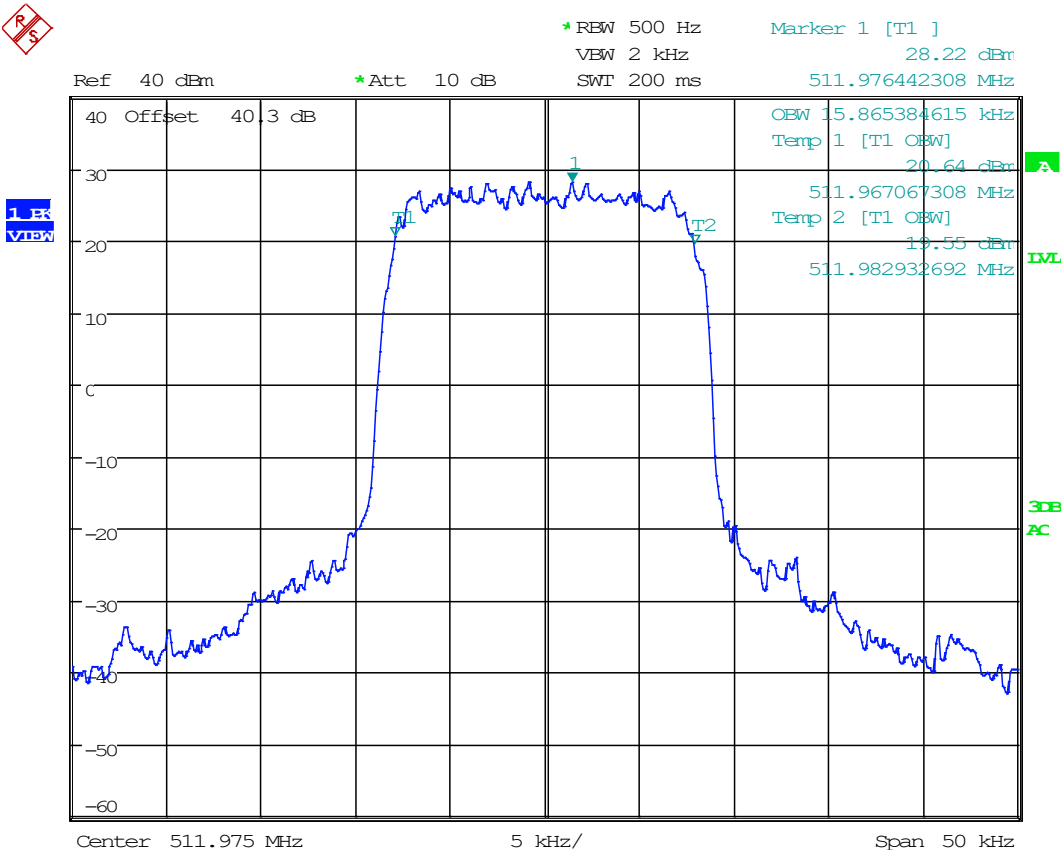
Date: 13.MAY.2020 10:27:30

**OCCUPIED BANDWIDTH (511.975MHz, 12.5k, 4QAM)**



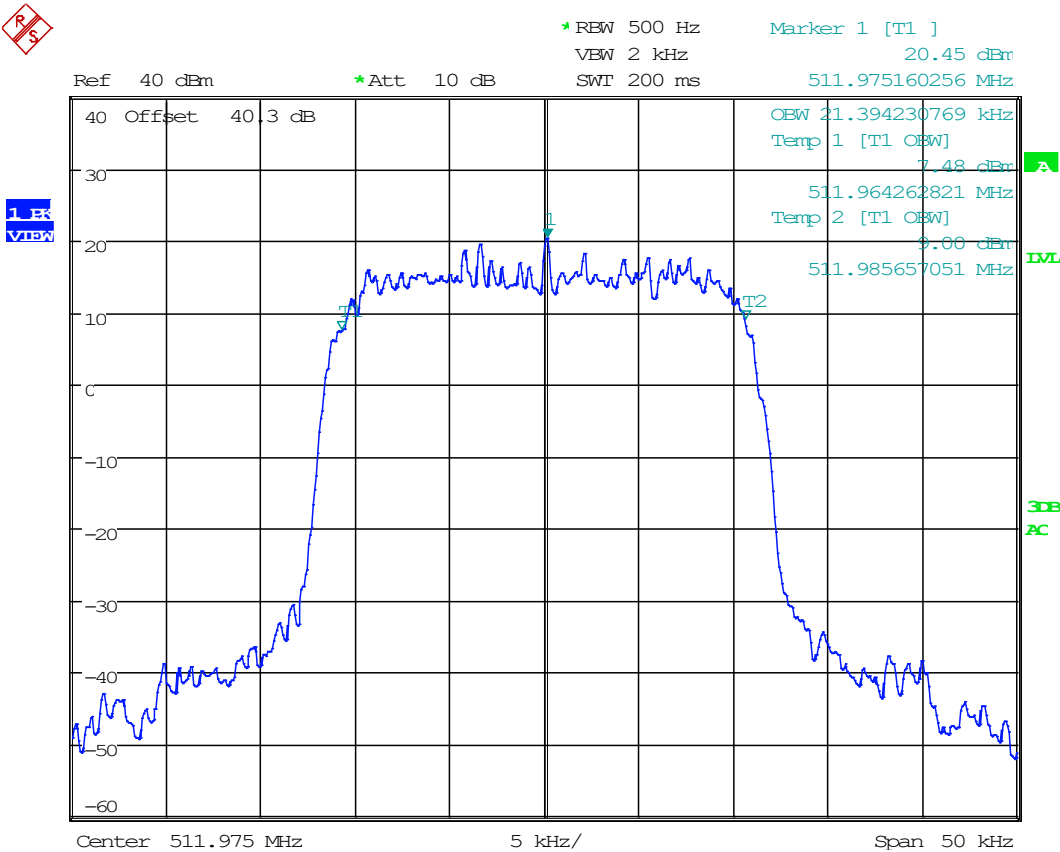
Date: 13.MAY.2020 10:48:03

**OCCUPIED BANDWIDTH (511.975MHz, 25k, 4QAM)**



Date: 13.MAY.2020 11:28:38

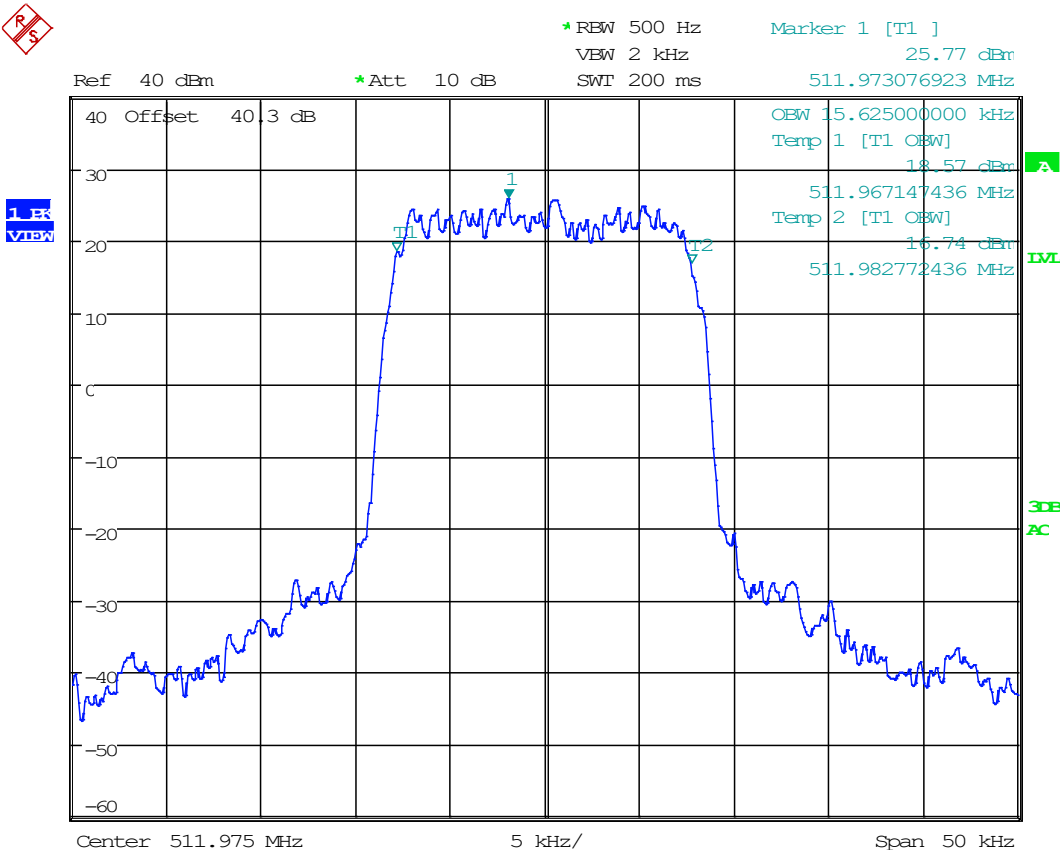
**OCCUPIED BANDWIDTH (511.975MHz, 25k Wide, 4QAM)**



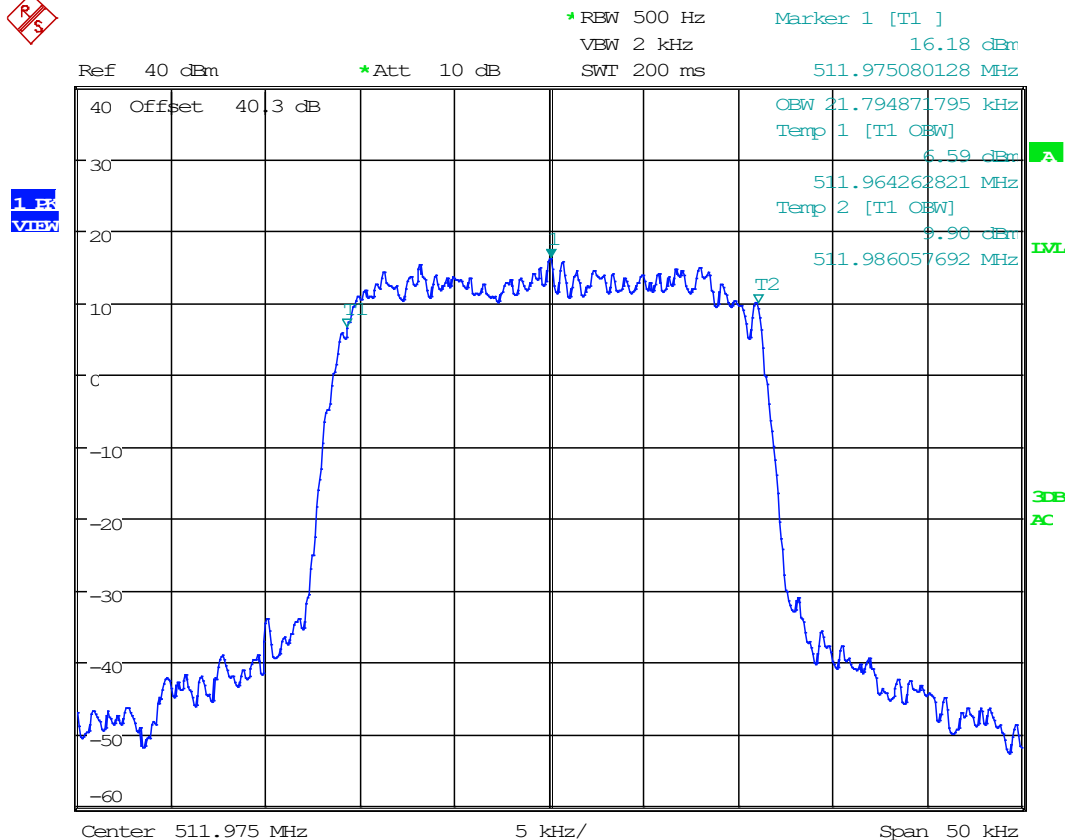
Date: 20.MAY.2020 12:30:53



**OCCUPIED BANDWIDTH (511.975MHz, 25k, 16QAM)**



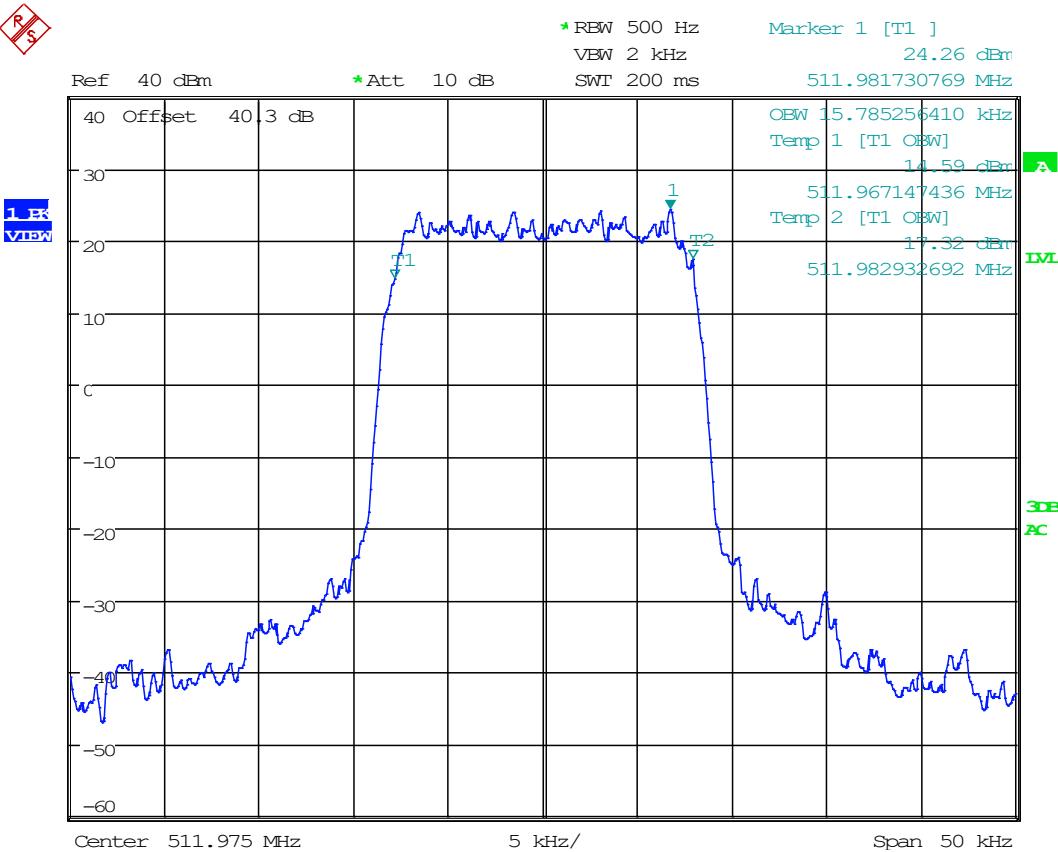
Date: 13.MAY.2020 11:40:48



Date: 20.MAY.2020 12:40:15

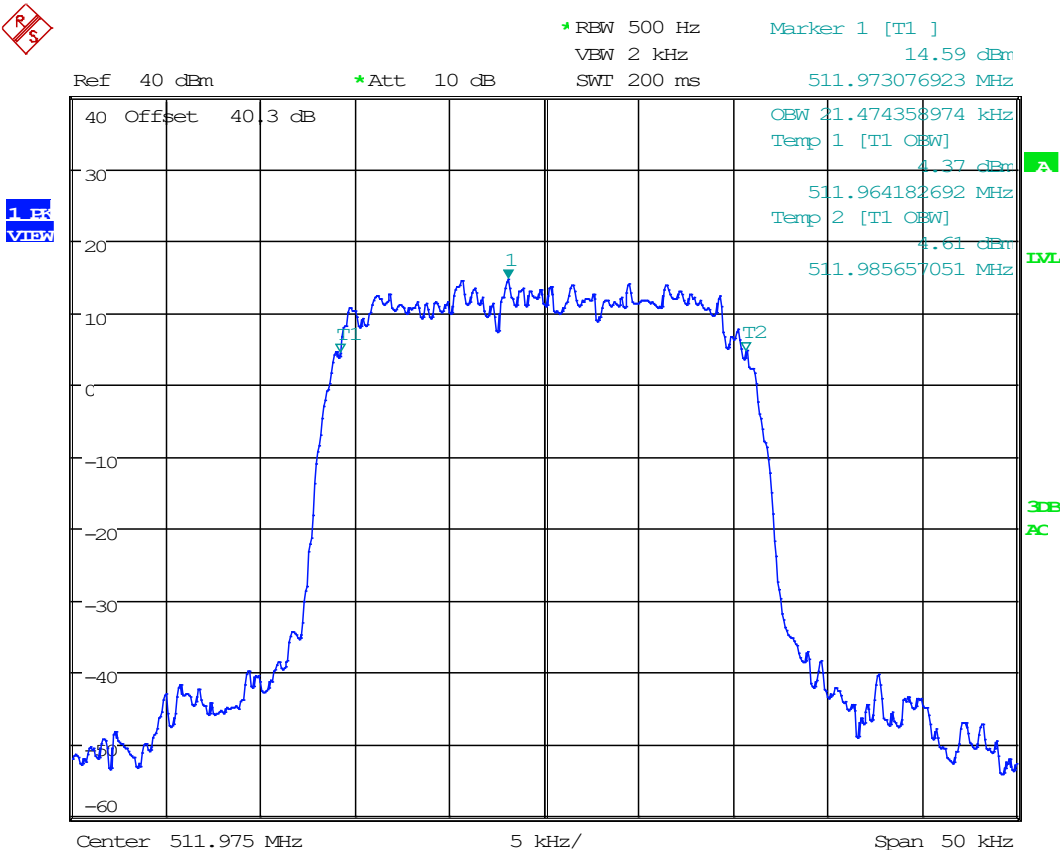


**OCCUPIED BANDWIDTH (511.975MHz, 25k, 64QAM)**



Date: 13.MAY.2020 11:54:54

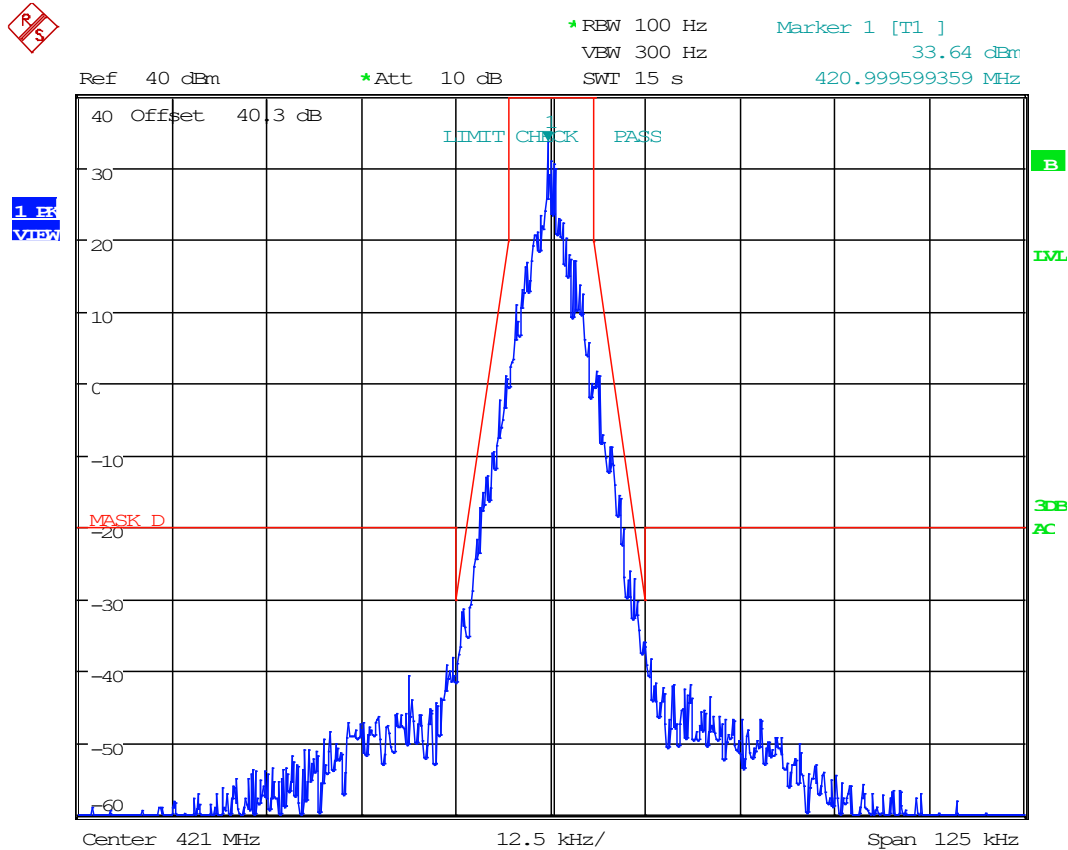
**OCCUPIED BANDWIDTH (511.975MHz, 25k Wide, 64QAM)**



Date: 20.MAY.2020 12:49:26

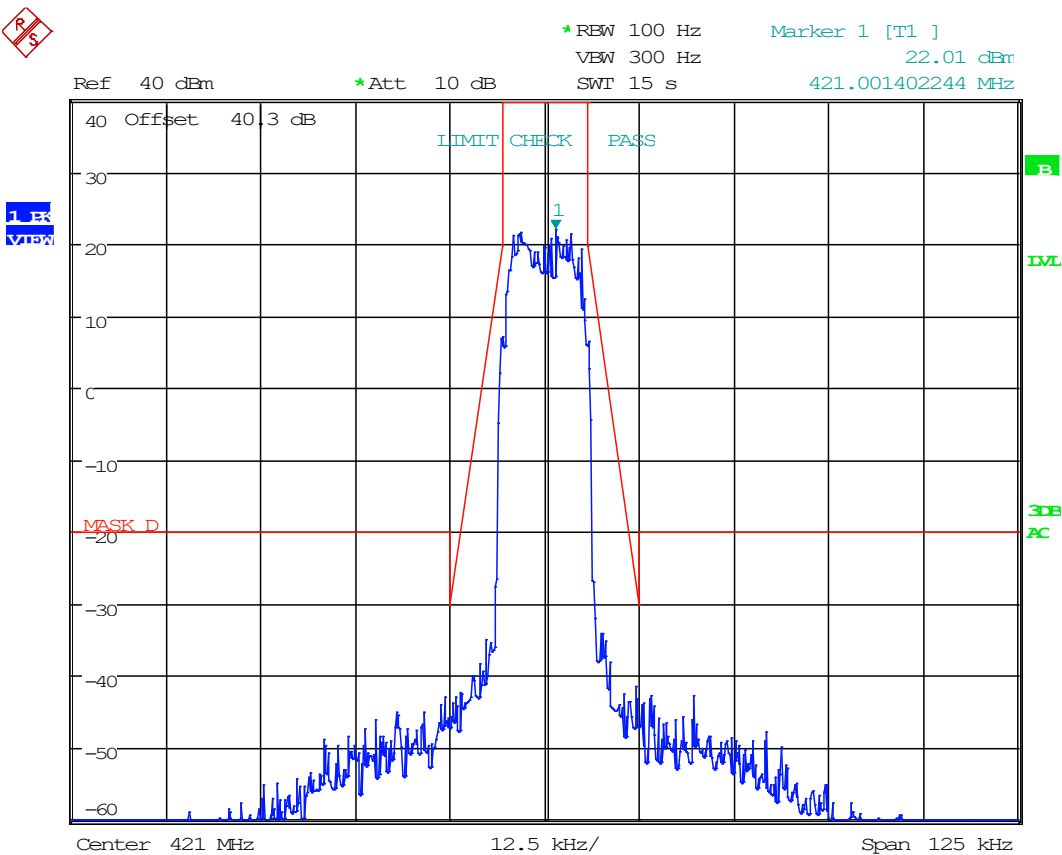
**EMISSION MASK**

Test Engineer: FR, TR  
 Test Date: 05/08/2020

**EMISSION MASK (421.000MHz, 12.5k, GMSK)**

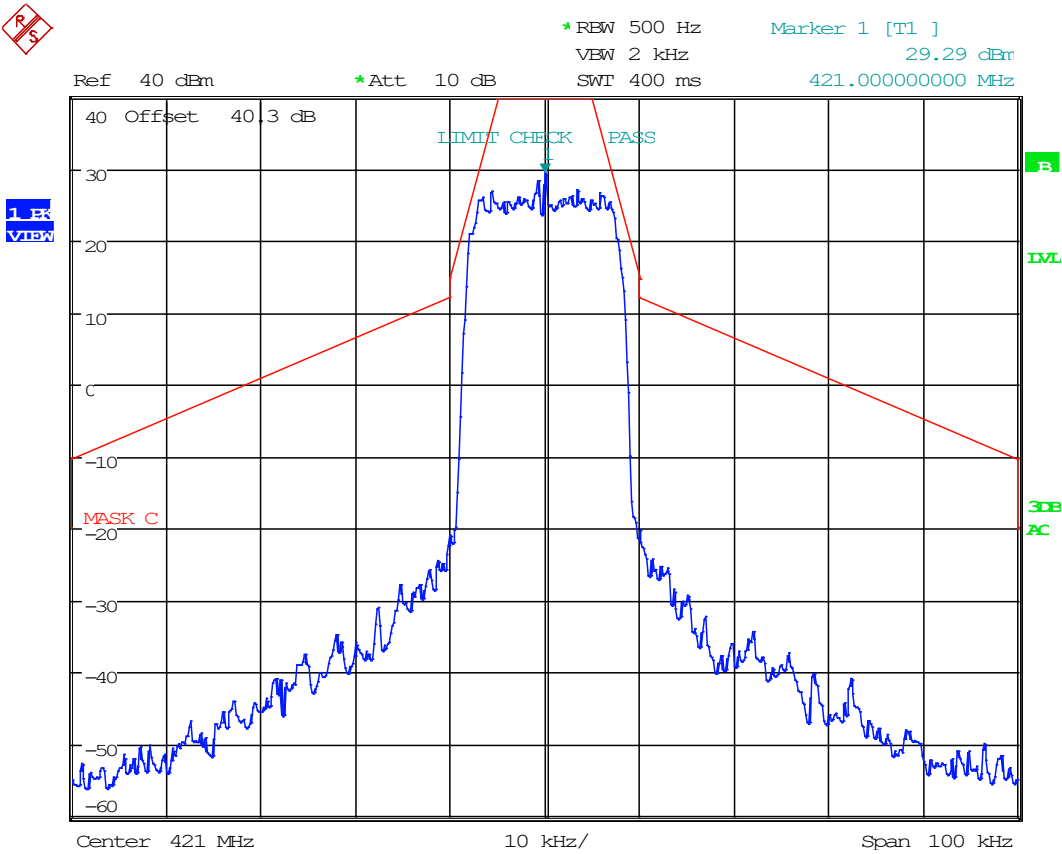
Date: 12.MAY.2020 12:24:22

**EMISSION MASK (421.000MHz, 12.5k, 4QAM)**

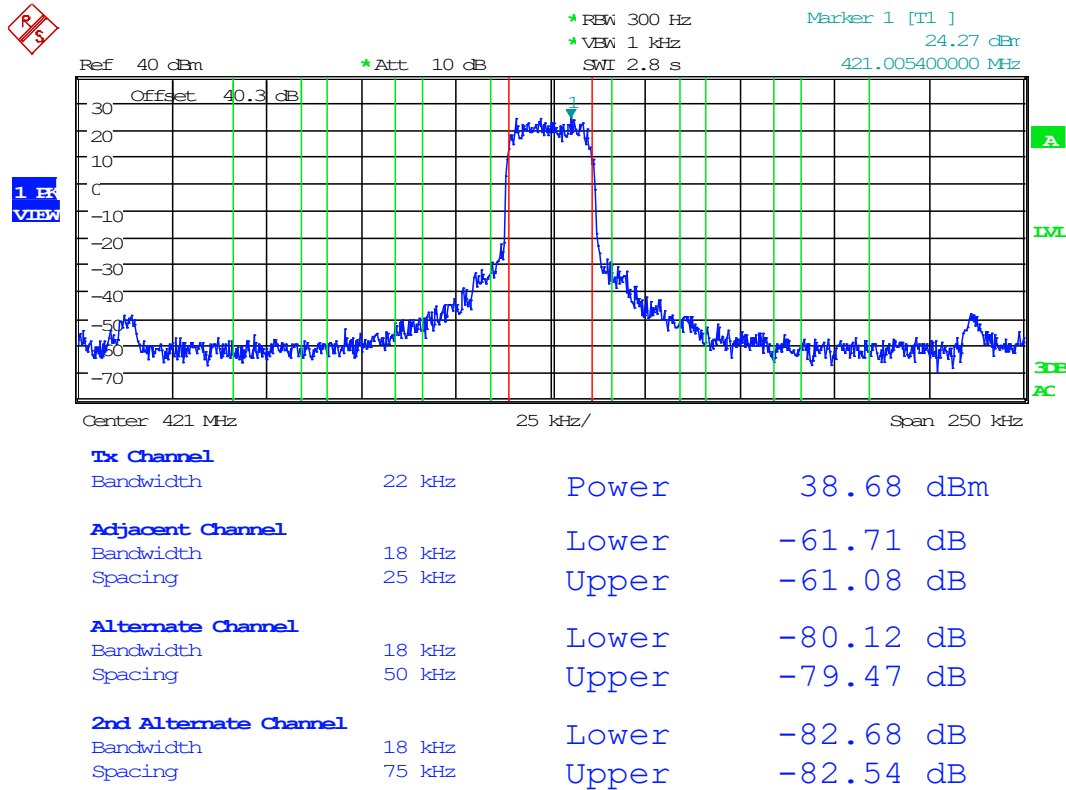


Date: 11.MAY.2020 13:17:42

**EMISSION MASK (421.000MHz, 25k, 4QAM)**

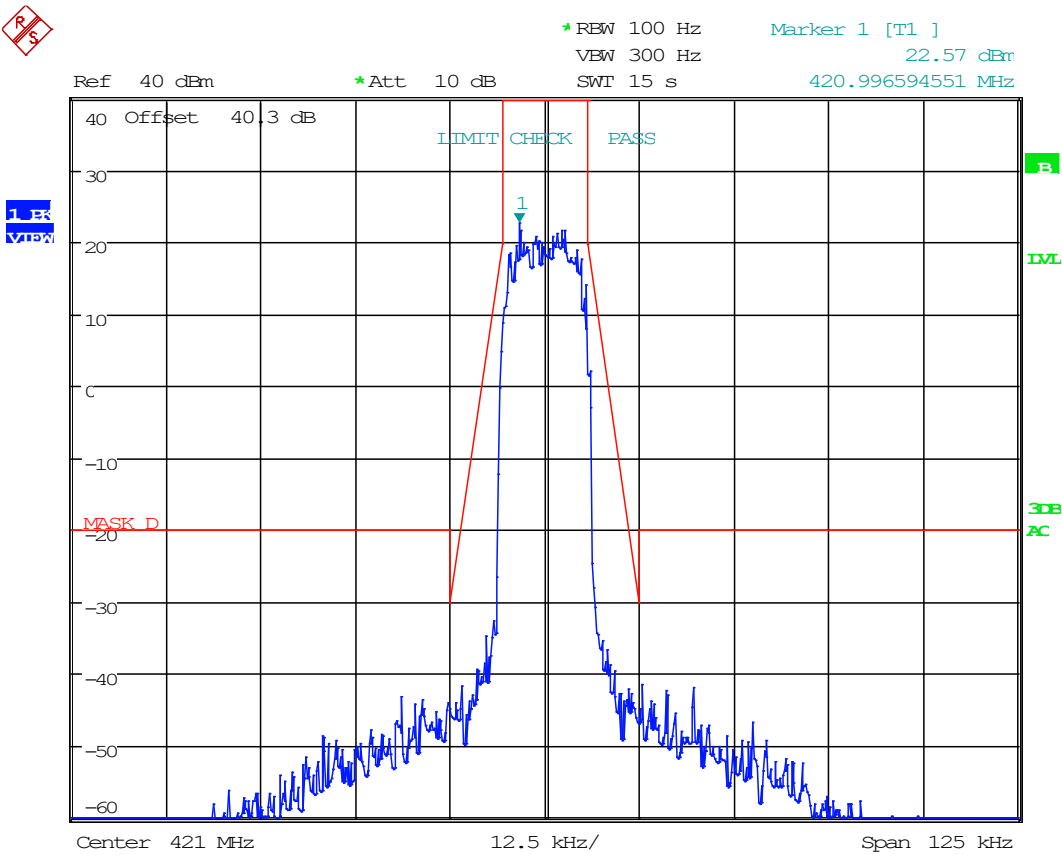


Date: 12.MAY.2020 11:11:33

**ADJACENT CHANNEL POWER (421.000MHz, 25k Wide, 4QAM)**

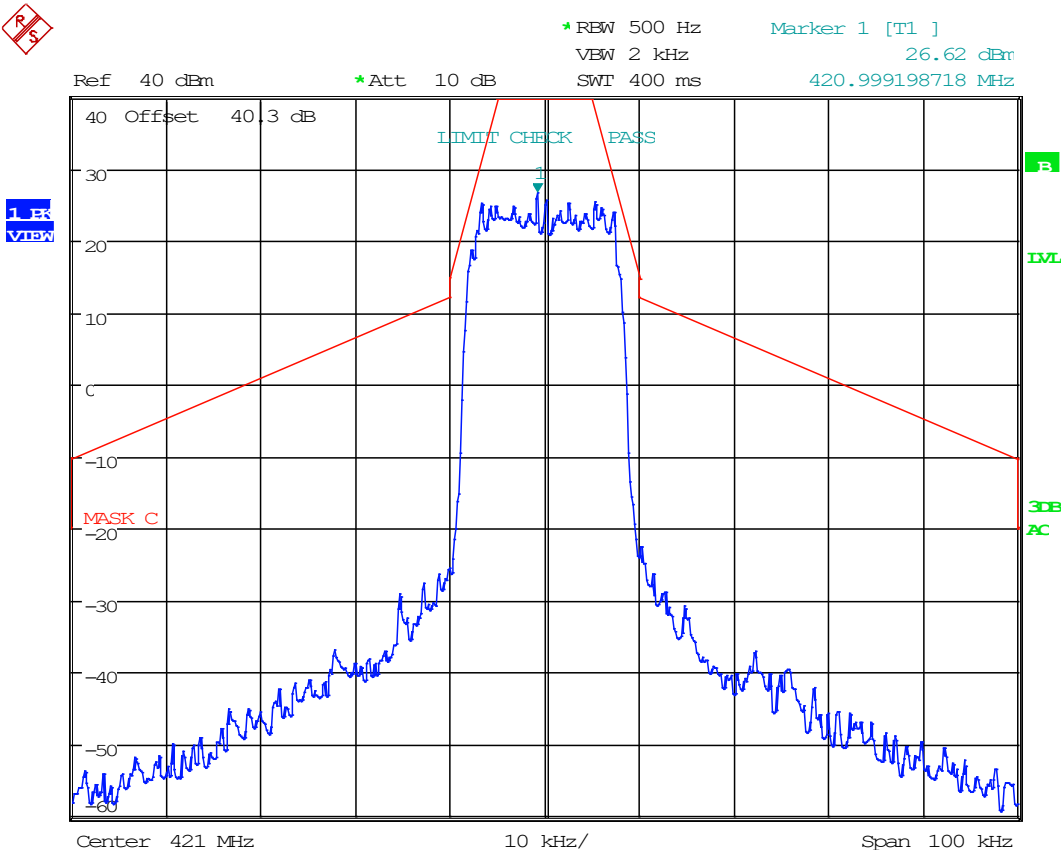
Date: 12.MAY.2020 11:57:09

**EMISSION MASK (421.000MHz, 12.5k, 16QAM)**



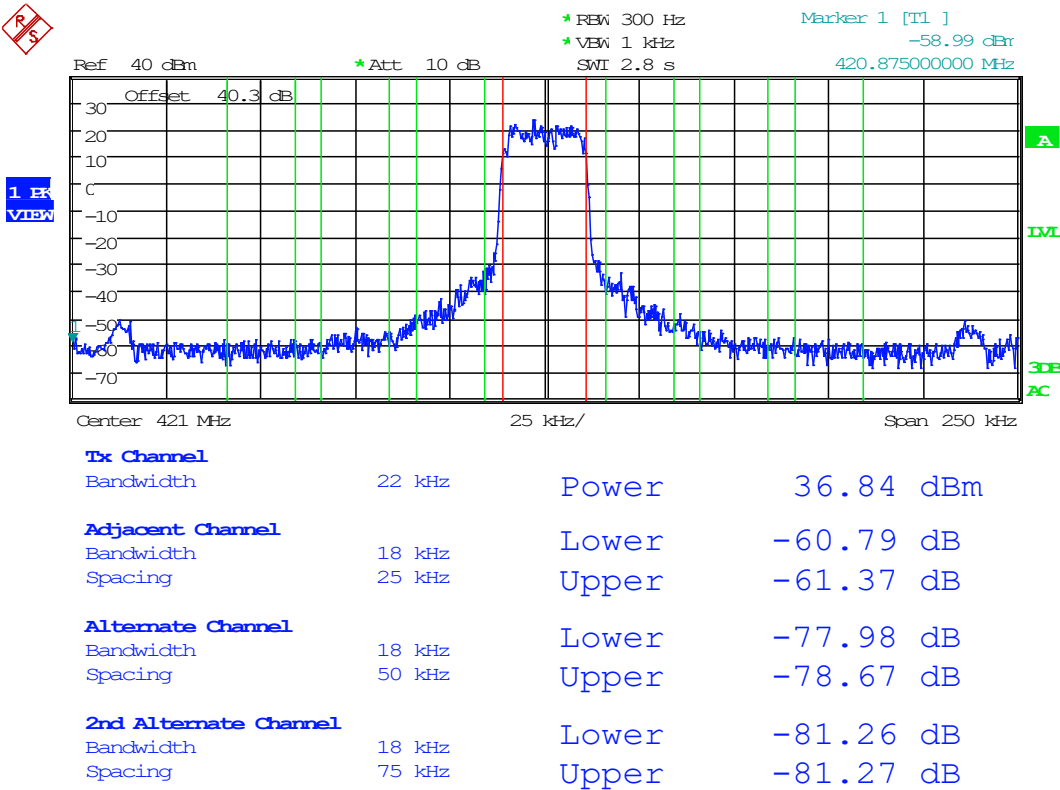
Date: 12.MAY.2020 10:46:10

**EMISSION MASK (421.000MHz, 25k, 16QAM)**



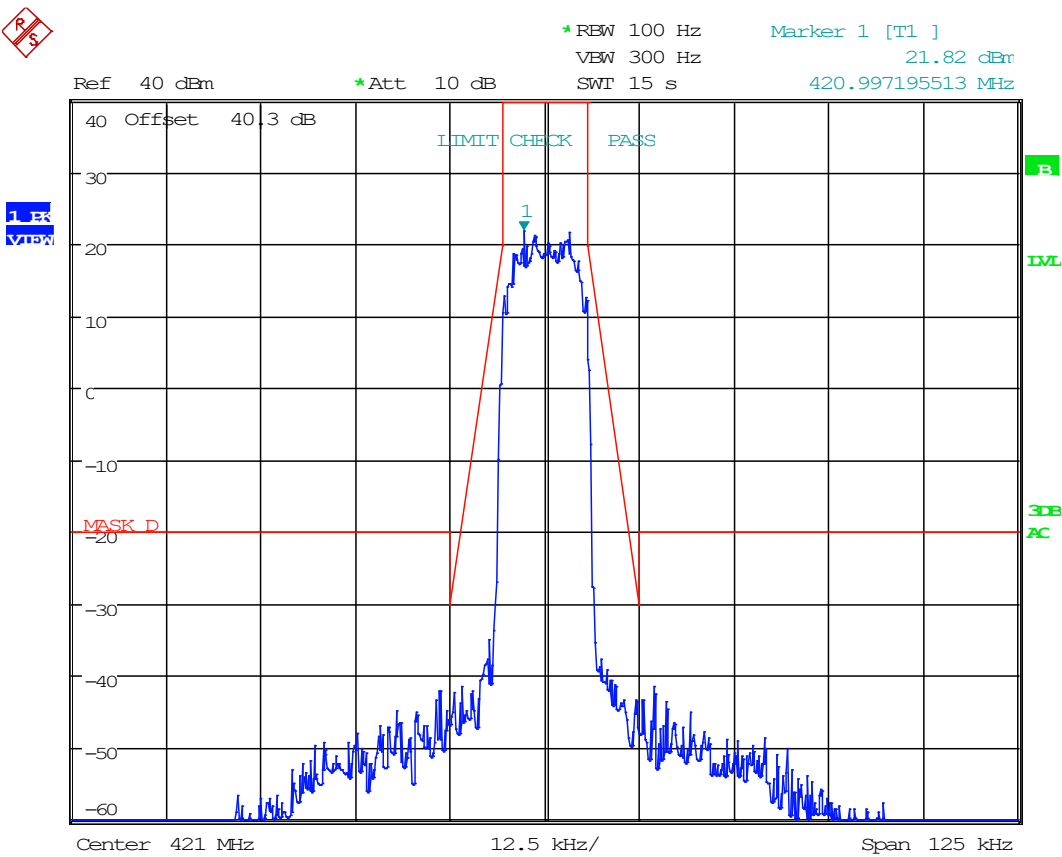
Date: 12.MAY.2020 11:25:05

**ADJACENT CHANNEL POWER (421.000MHz, 25k Wide, 16QAM)**



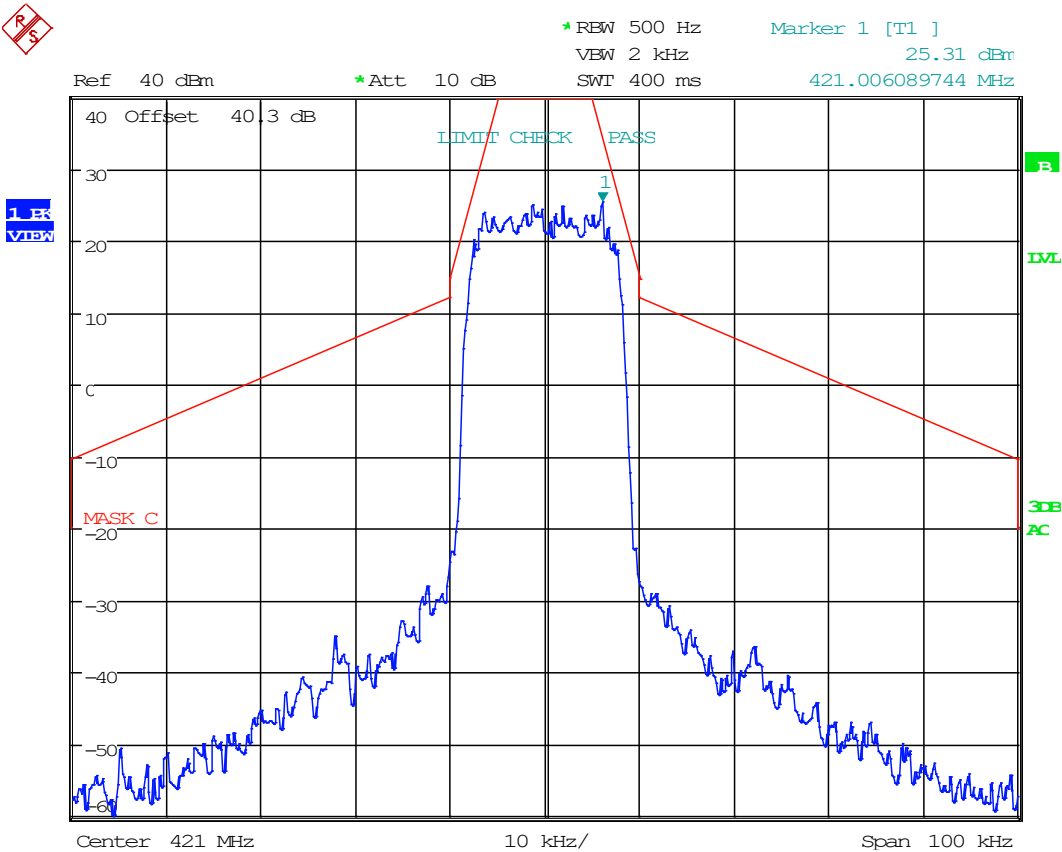
Date: 12.MAY.2020 12:08:01

**EMISSION MASK (421.000MHz, 12.5k, 64QAM)**



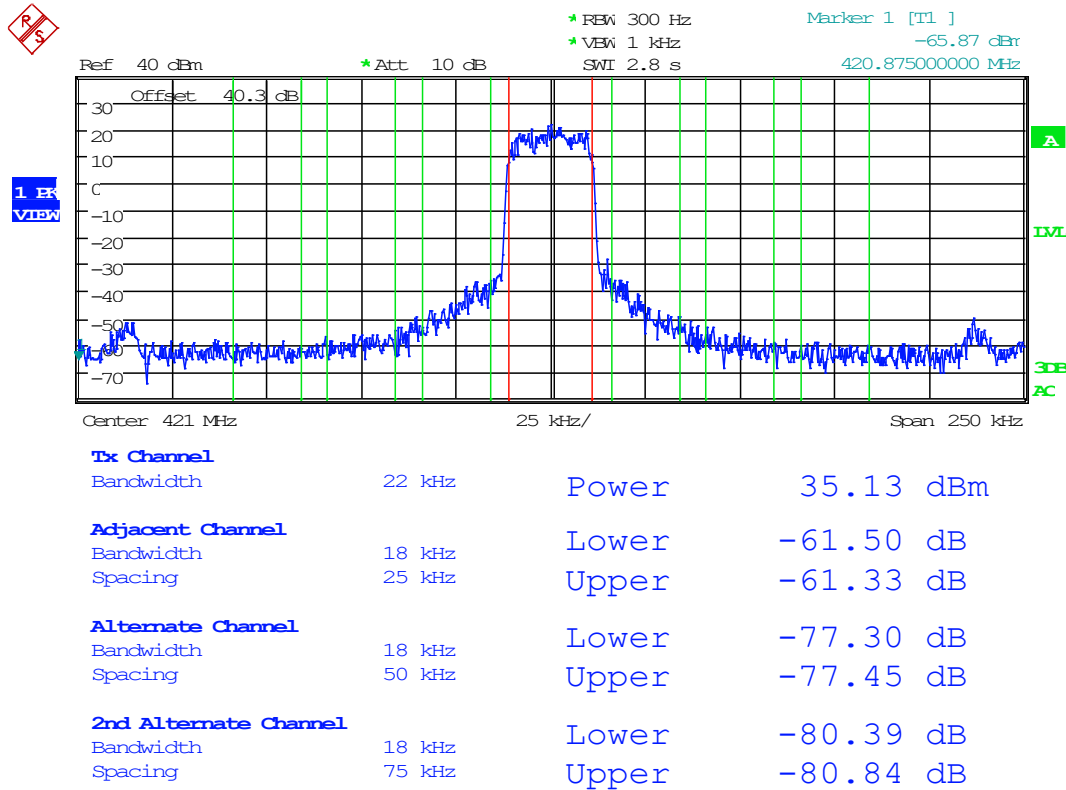
Date: 12.MAY.2020 11:02:19

**EMISSION MASK (421.000MHz, 25k, 64QAM)**



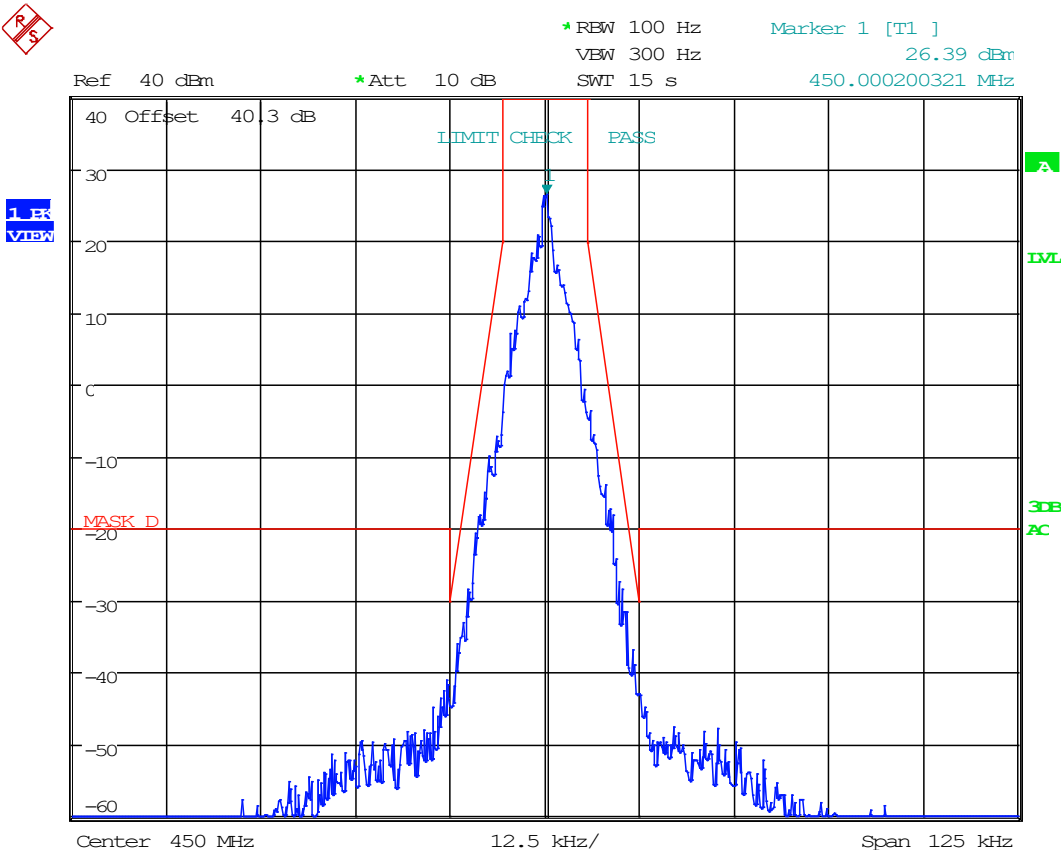
Date: 12.MAY.2020 11:34:20

# ADJACENT CHANNEL POWER (421.000MHz, 25k Wide, 64QAM)



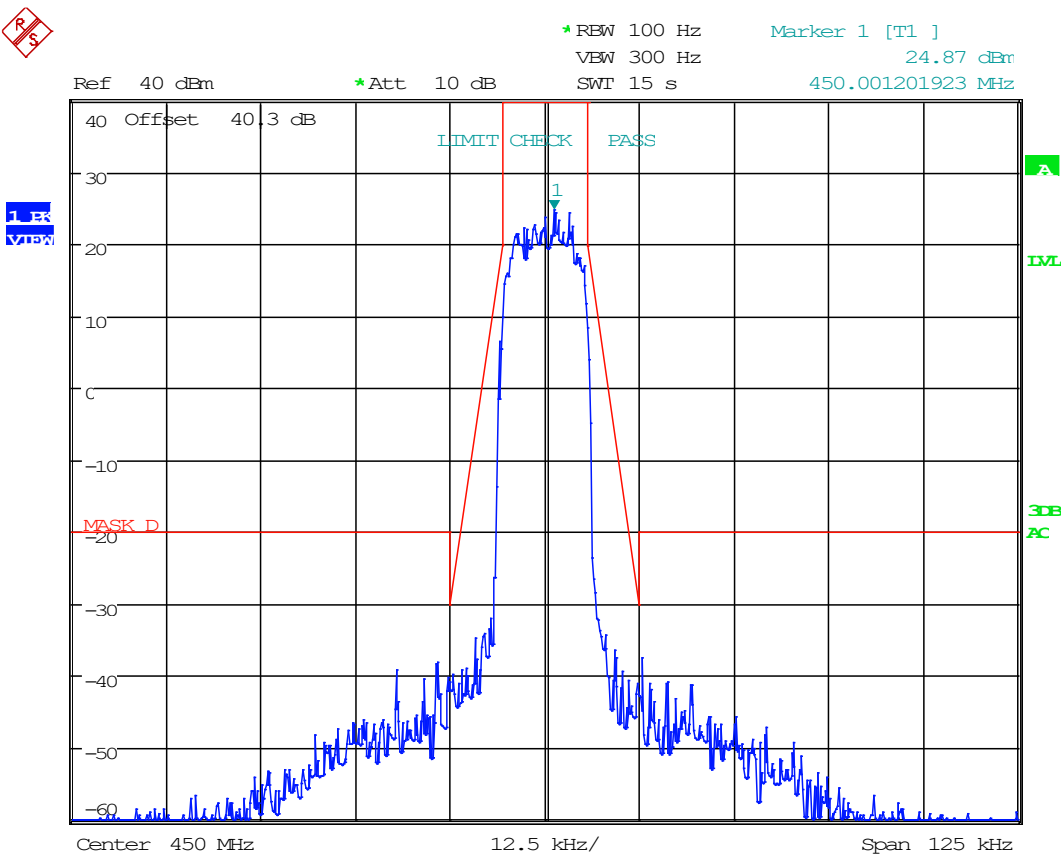
Date: 12.MAY.2020 12:11:15

**EMISSION MASK (450.000MHz, 12.5k, GMSK)**



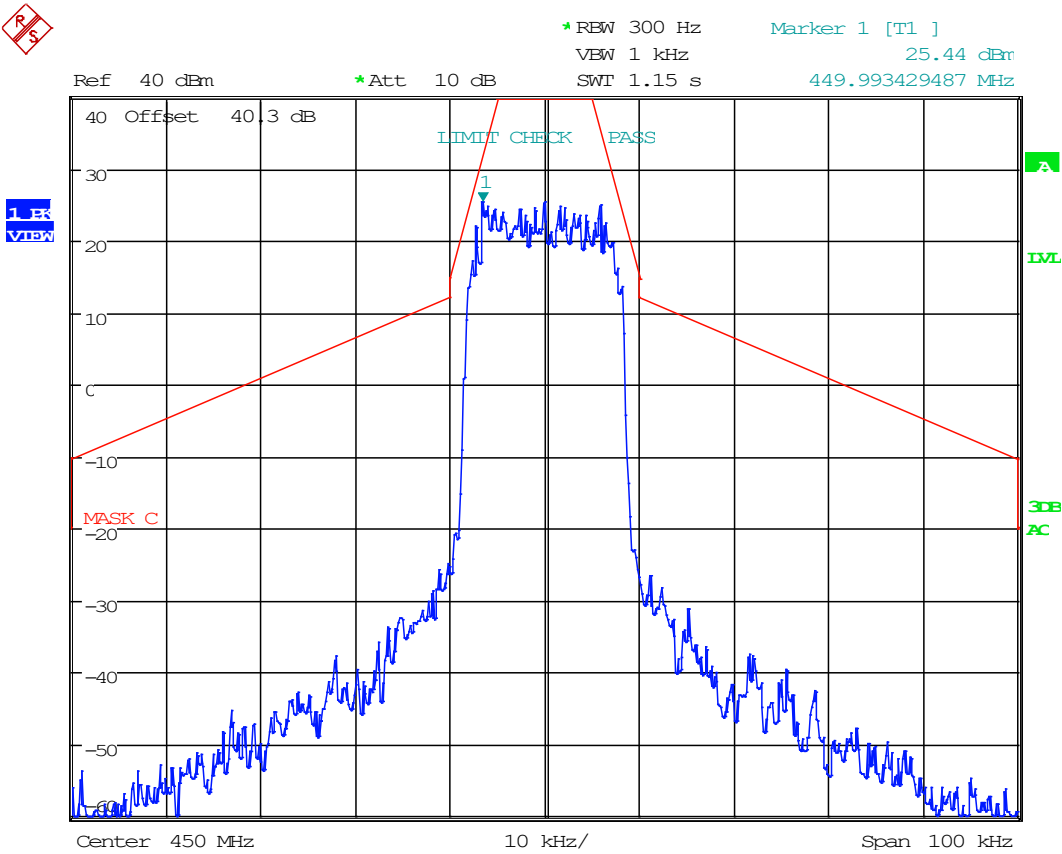
Date: 13.MAY.2020 10:38:53

**EMISSION MASK (450.000MHz, 12.5k, 4QAM)**



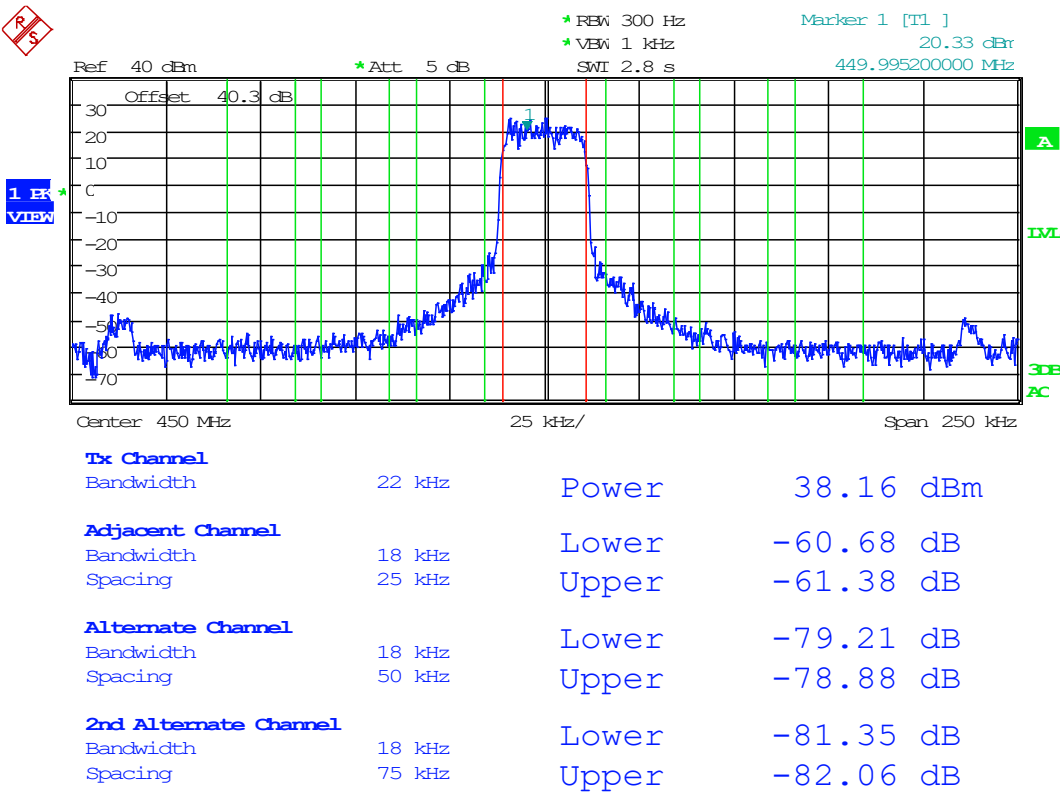
Date: 13.MAY.2020 10:44:17

**EMISSION MASK (450.000MHz, 25k, 4QAM)**



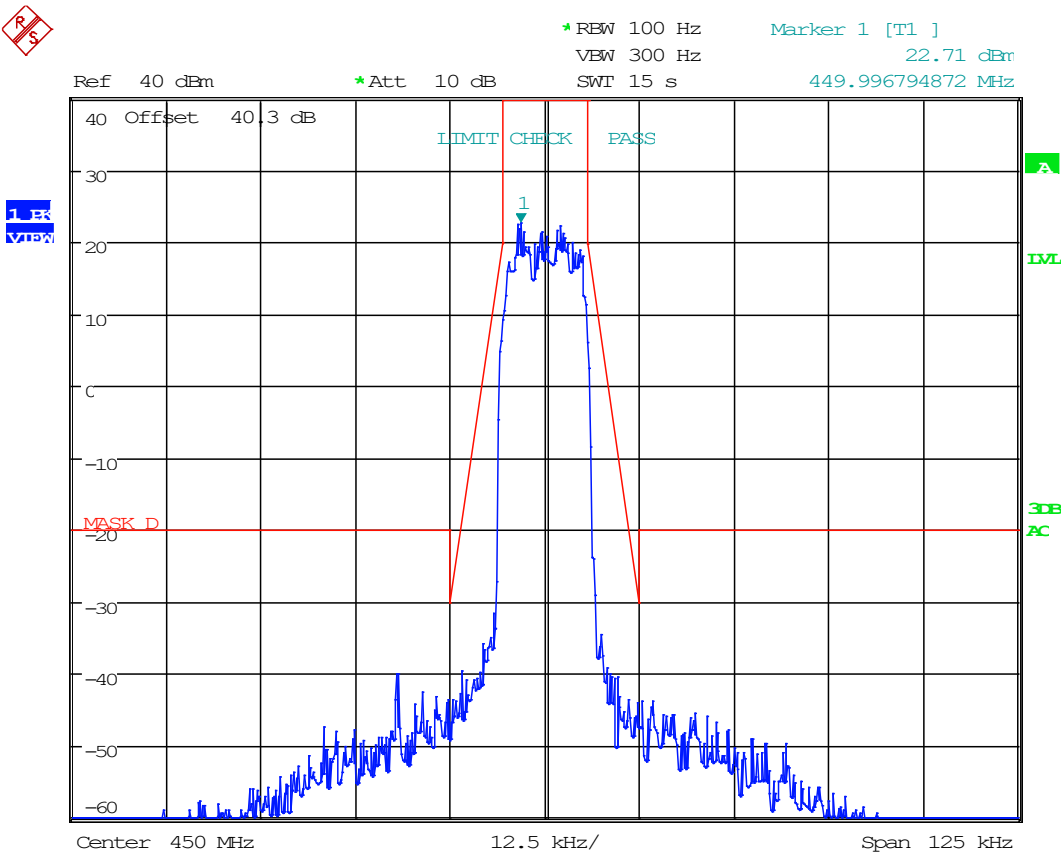
Date: 13.MAY.2020 11:29:49

**ADJACENT CHANNEL POWER (450.000MHz, 25k Wide, 4QAM)**



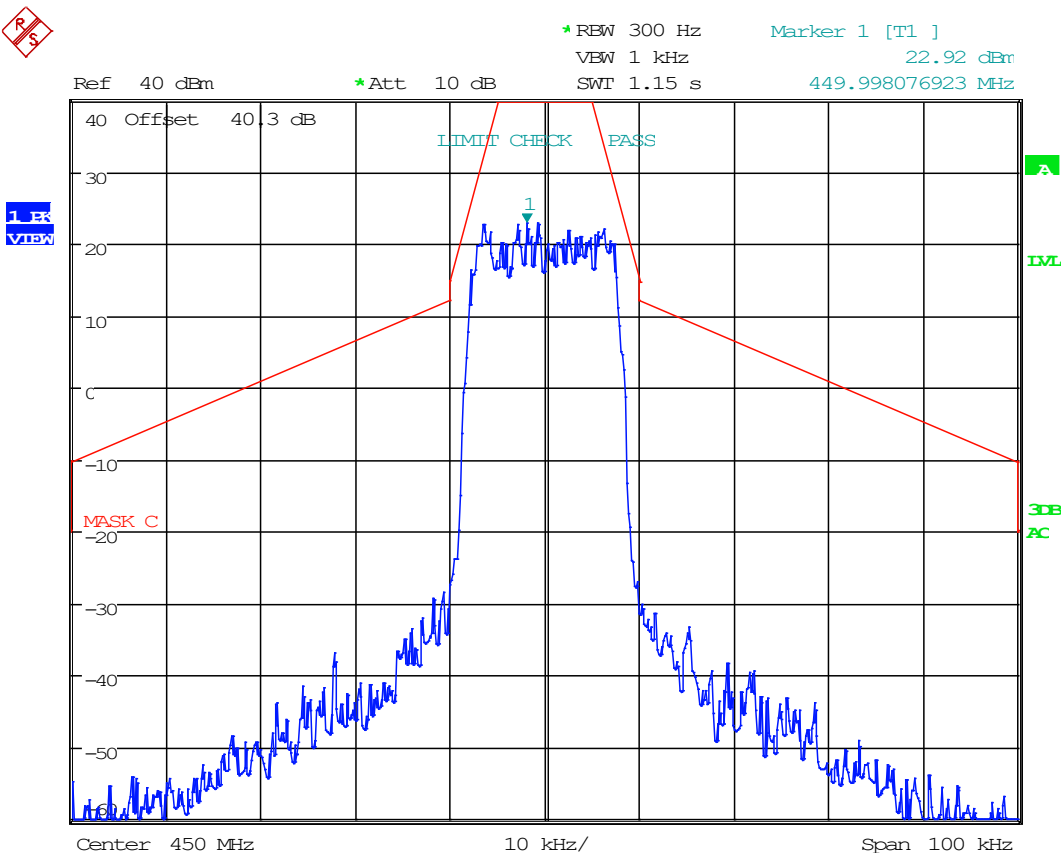
Date: 13.MAY.2020 12:17:09

**EMISSION MASK (450.000MHz, 12.5k, 16QAM)**

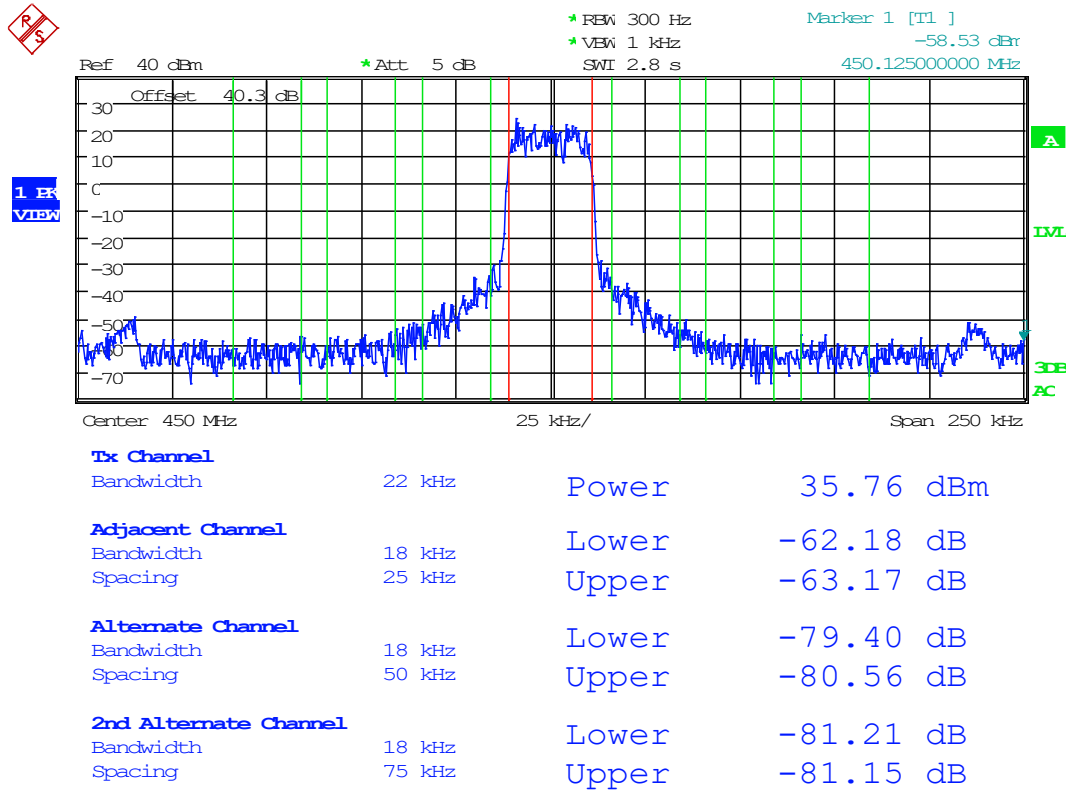


Date: 13.MAY.2020 11:17:00

**EMISSION MASK (450.000MHz, 25k, 16QAM)**

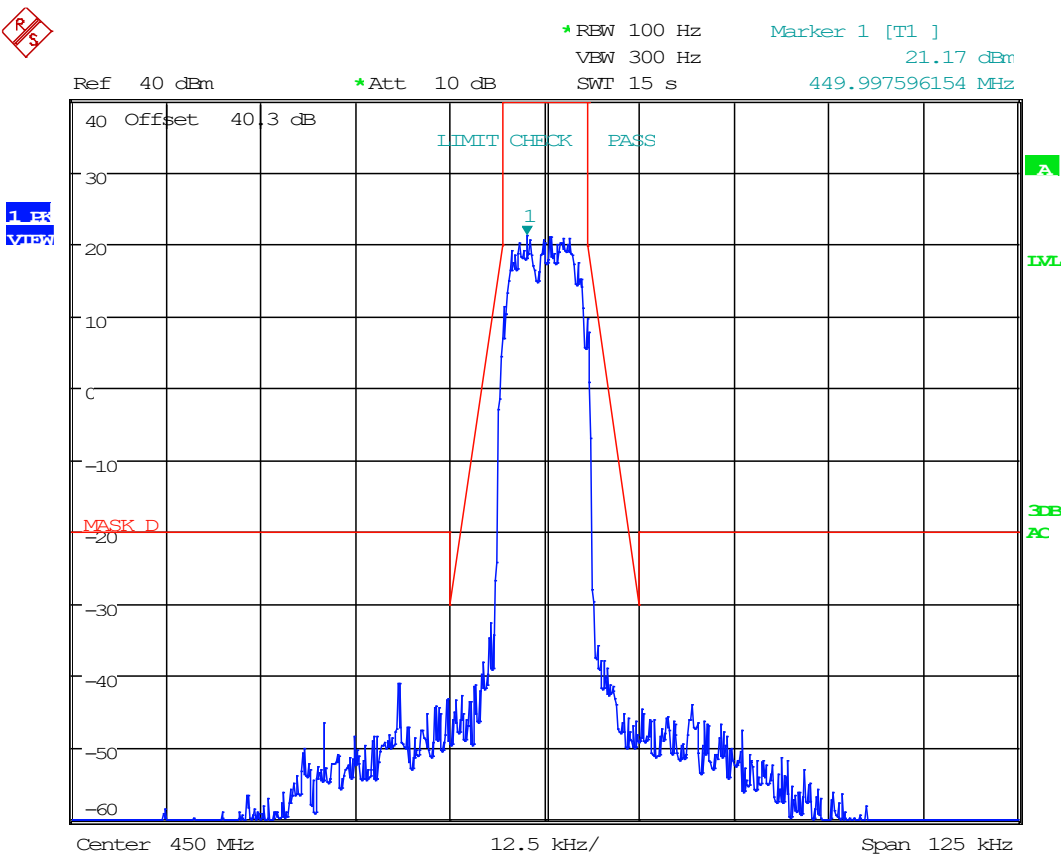


Date: 13.MAY.2020 11:37:50

**ADJACENT CHANNEL POWER (450.000MHz, 25k Wide, 16QAM)**

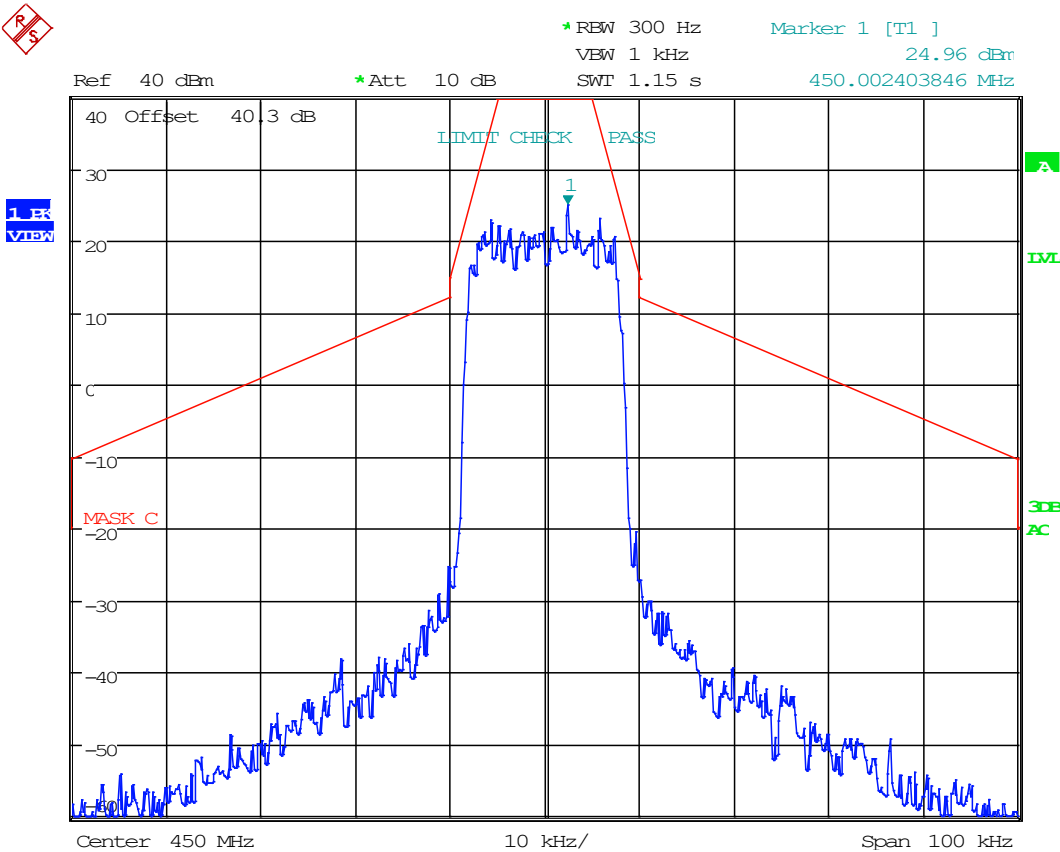
Date: 13.MAY.2020 12:20:40

**EMISSION MASK (450.000MHz, 12.5k, 64QAM)**



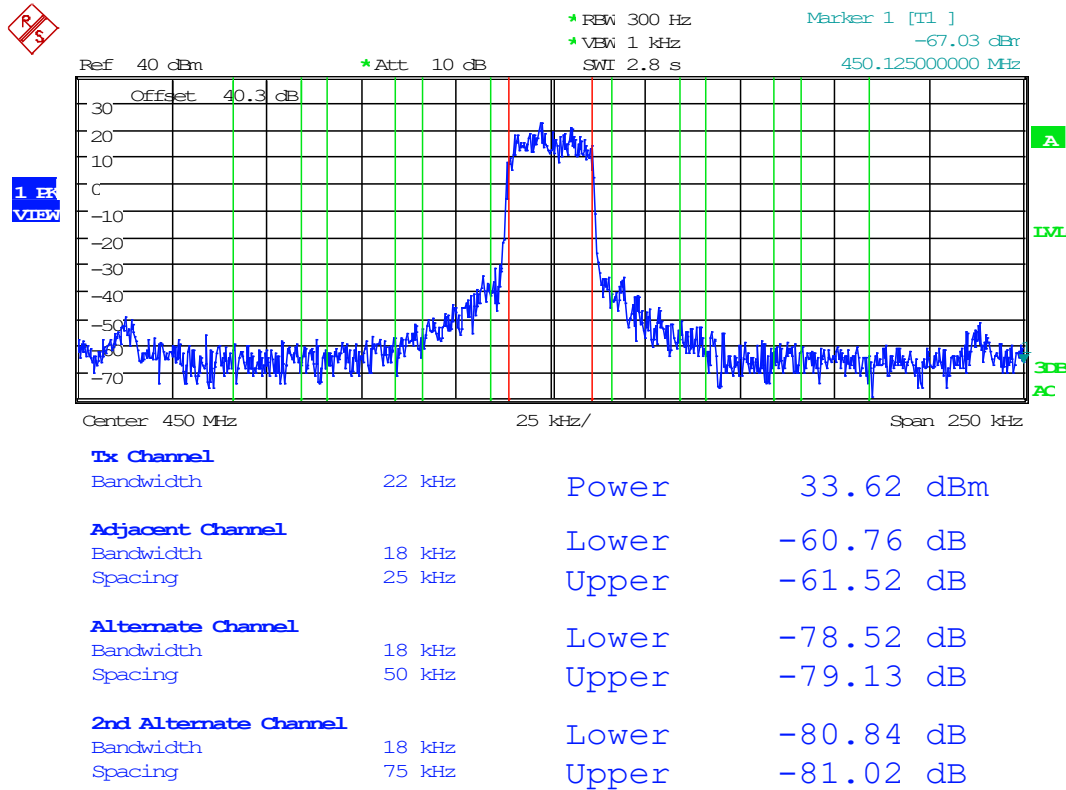
Date: 13.MAY.2020 11:20:05

**EMISSION MASK (450.000MHz, 25k, 64QAM)**



Date: 13.MAY.2020 11:57:25

# ADJACENT CHANNEL POWER (450.000MHz, 25k Wide, 64QAM)

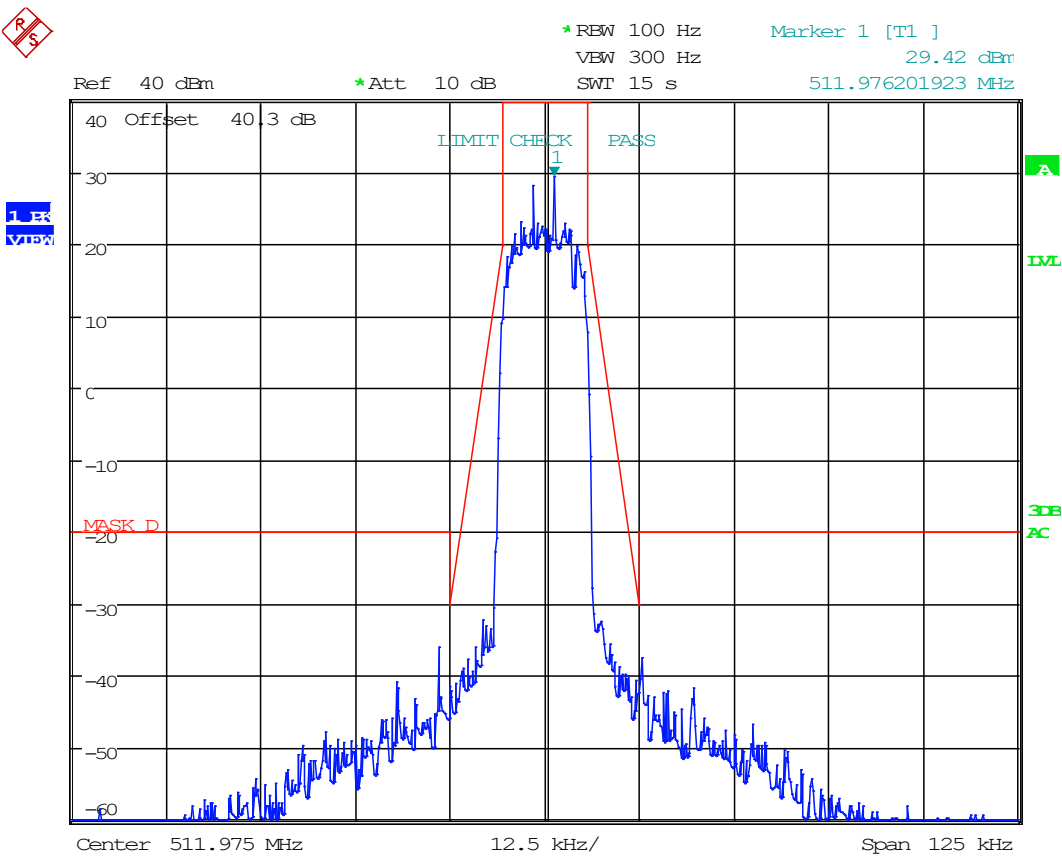


Date: 13.MAY.2020 12:47:07



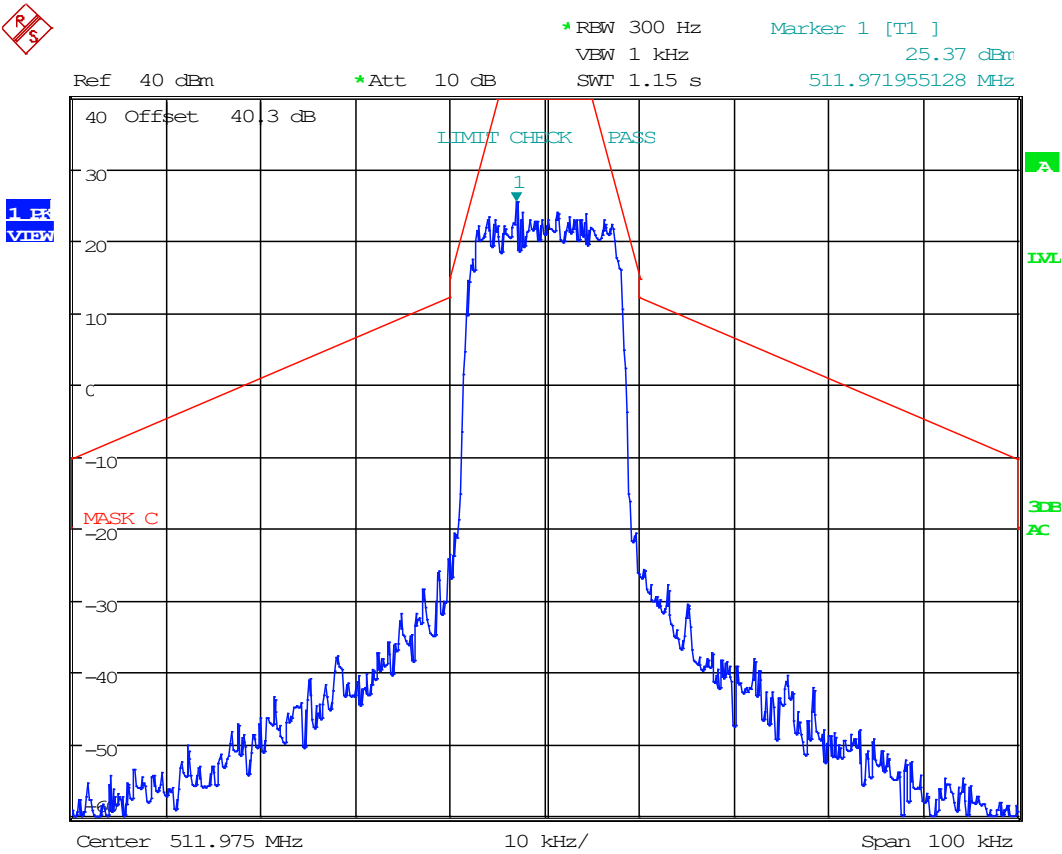
Page 100 of 134

**EMISSION MASK (511.975MHz, 12.5k, 4QAM)**



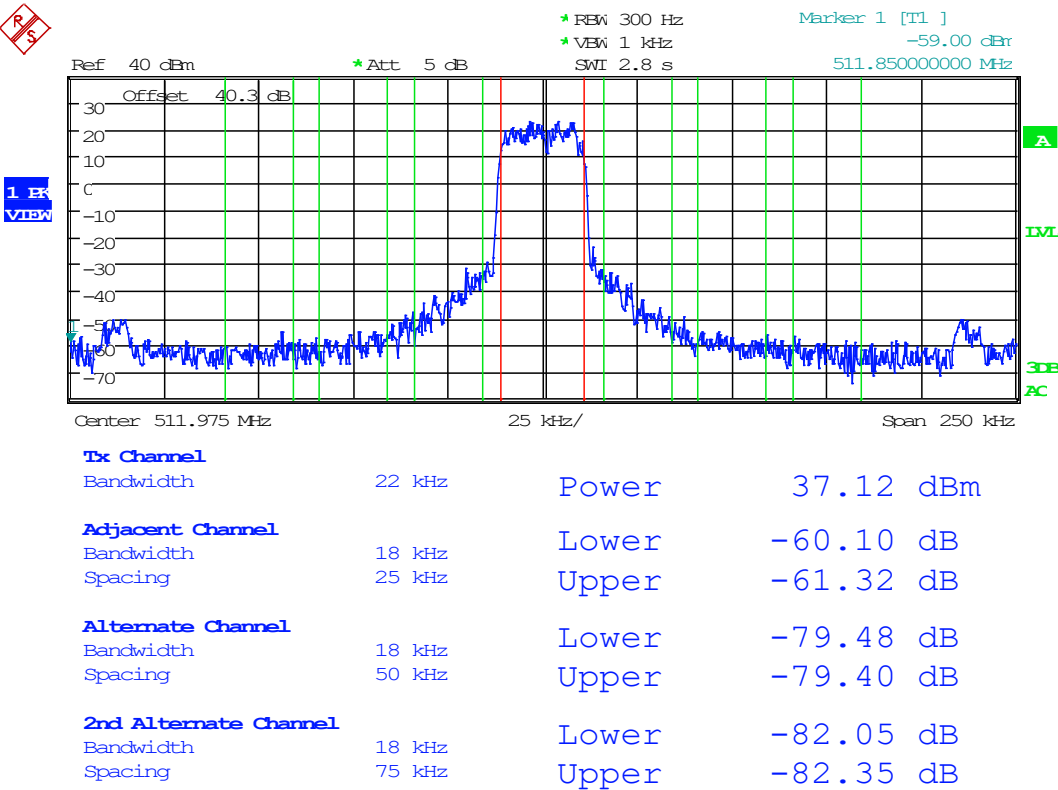
Date: 13.MAY.2020 10:46:30

**EMISSION MASK (511.975MHz, 25k, 4QAM)**



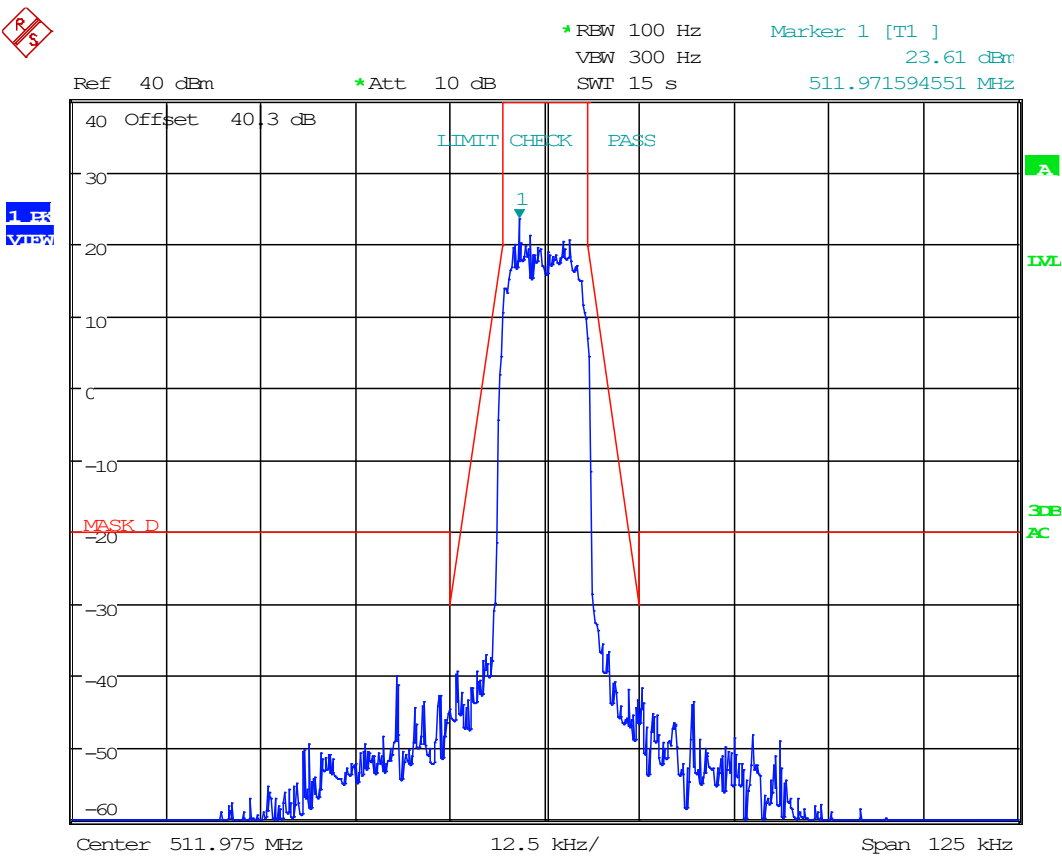
Date: 13.MAY.2020 11:29:23

**ADJACENT CHANNEL POWER (511.975MHz, 25k Wide, 4QAM)**



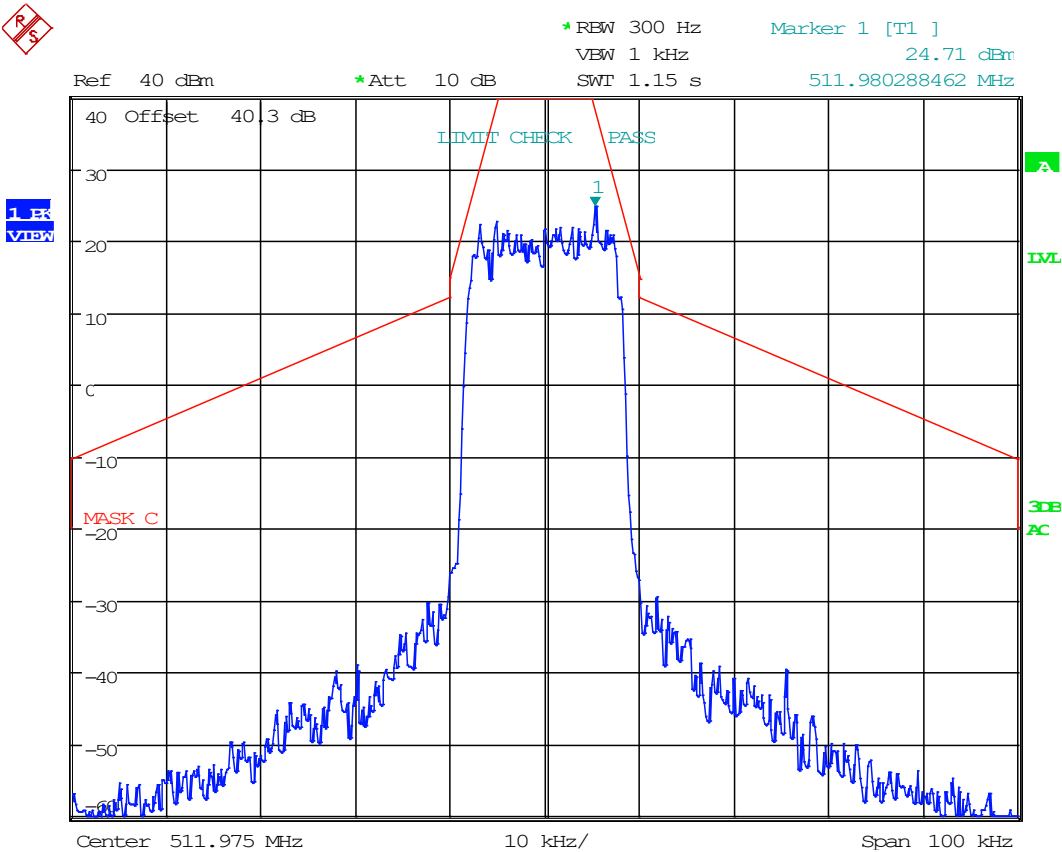
Date: 13.MAY.2020 12:18:09

**EMISSION MASK (511.975MHz, 12.5k, 16QAM)**



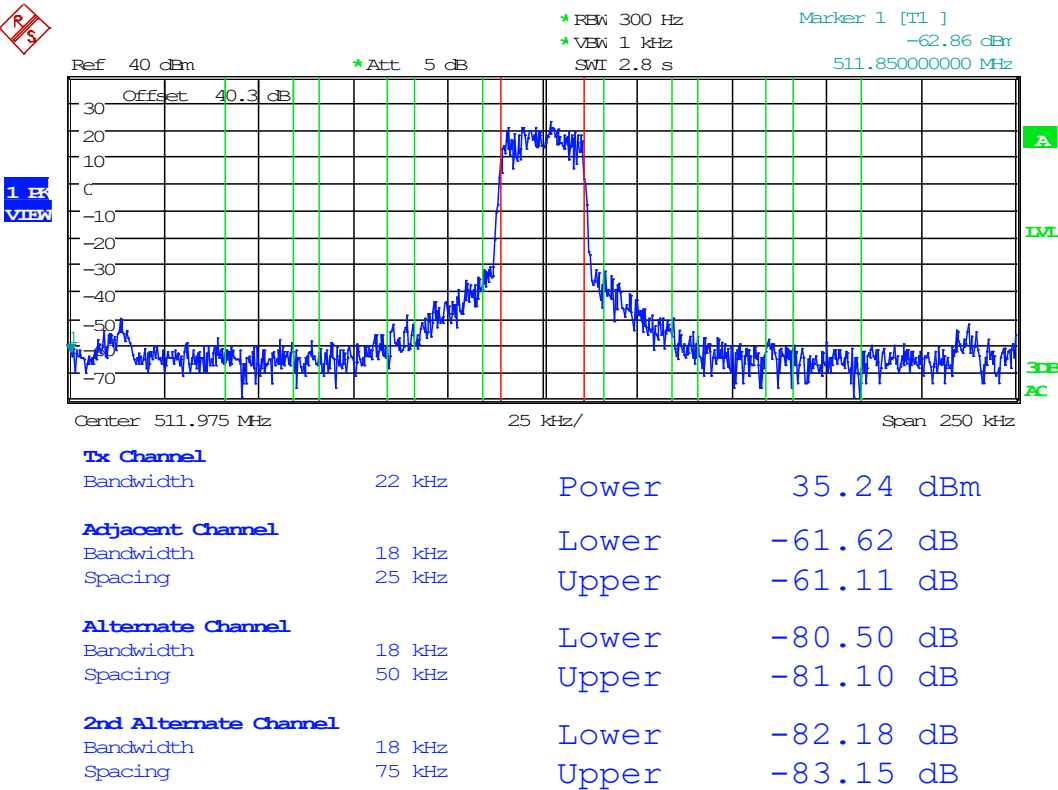
Date: 13.MAY.2020 11:16:00

**EMISSION MASK (511.975MHz, 25k, 16QAM)**



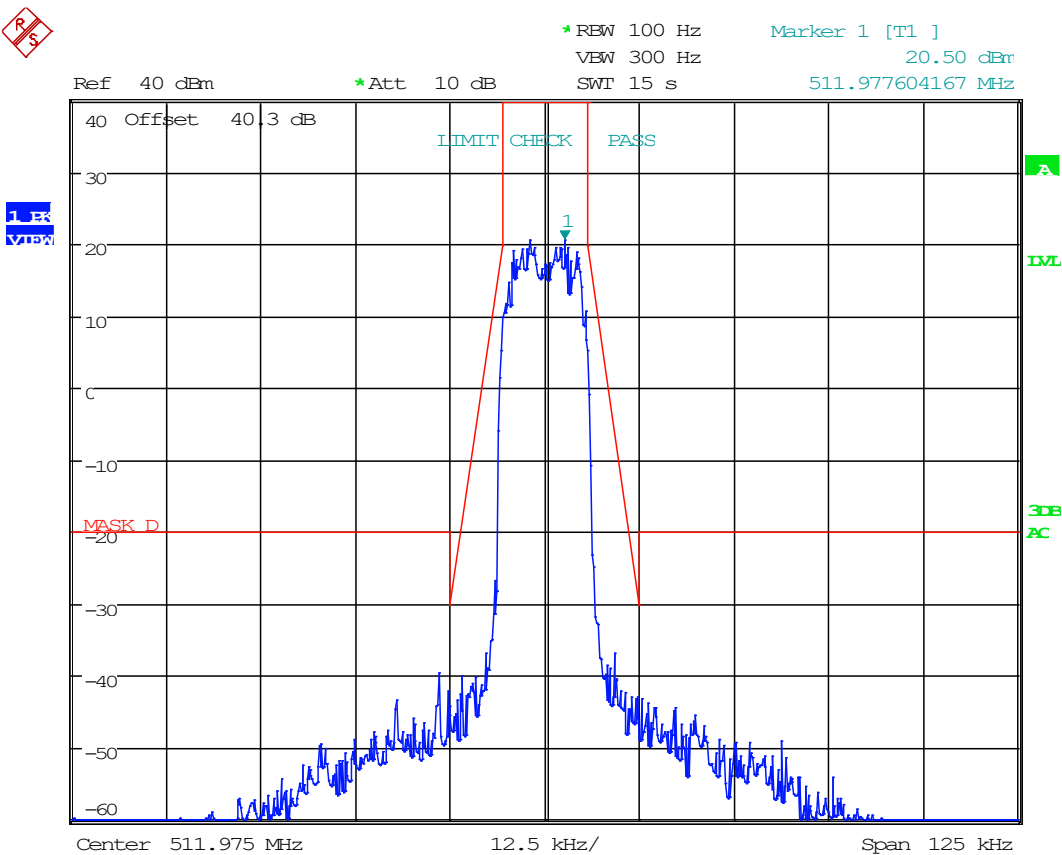
Date: 13.MAY.2020 11:38:40

**ADJACENT CHANNEL POWER (511.975MHz, 25k Wide, 16QAM)**



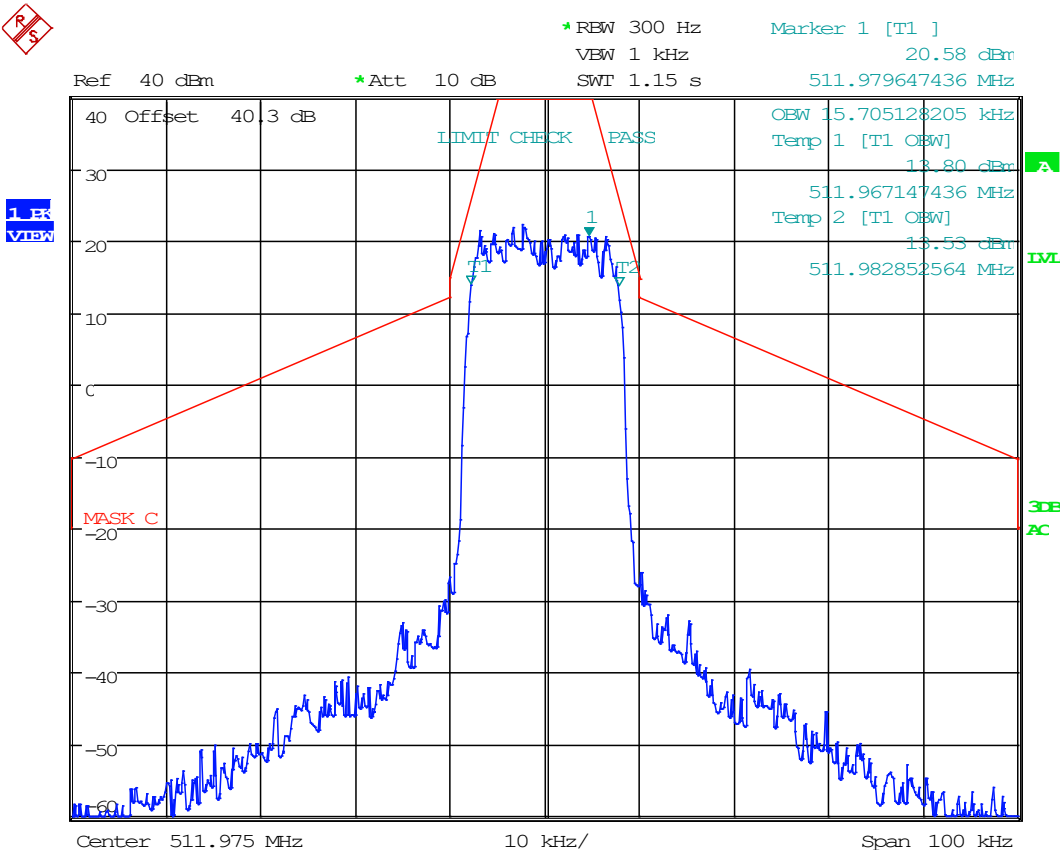
Date: 13.MAY.2020 12:20:13

**EMISSION MASK (511.975MHz, 12.5k, 64QAM)**



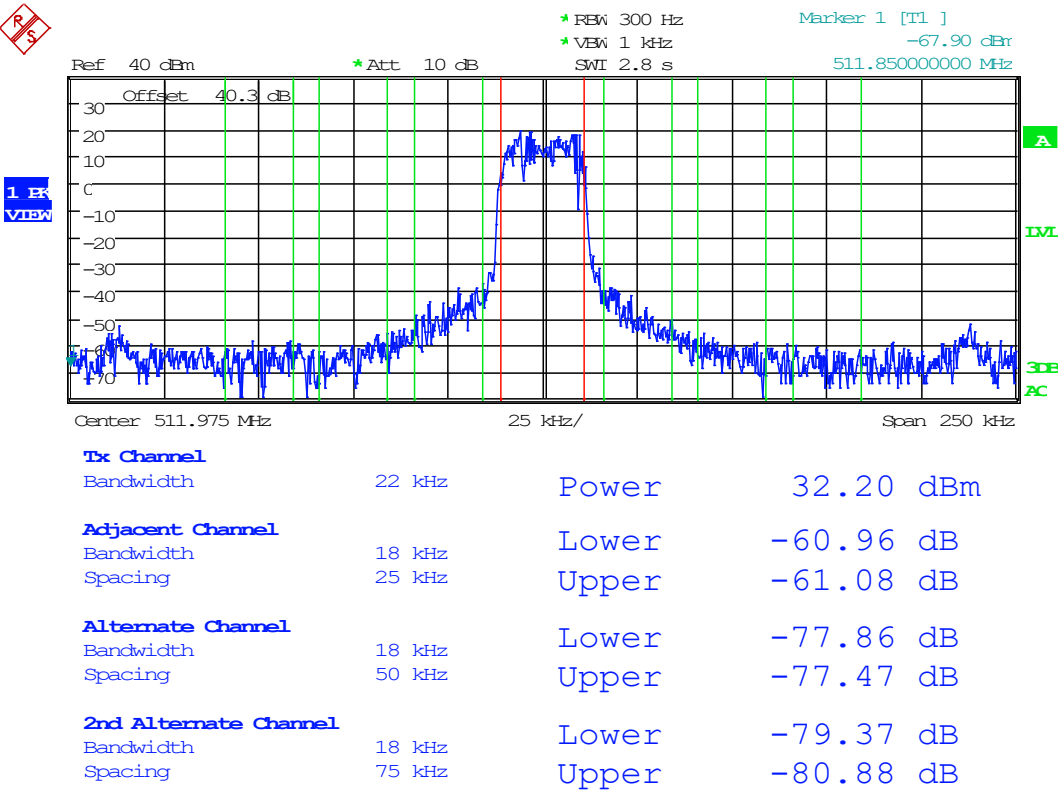
Date: 13.MAY.2020 11:21:17

**EMISSION MASK (511.975MHz, 25k, 64QAM)**



Date: 13.MAY.2020 11:55:54

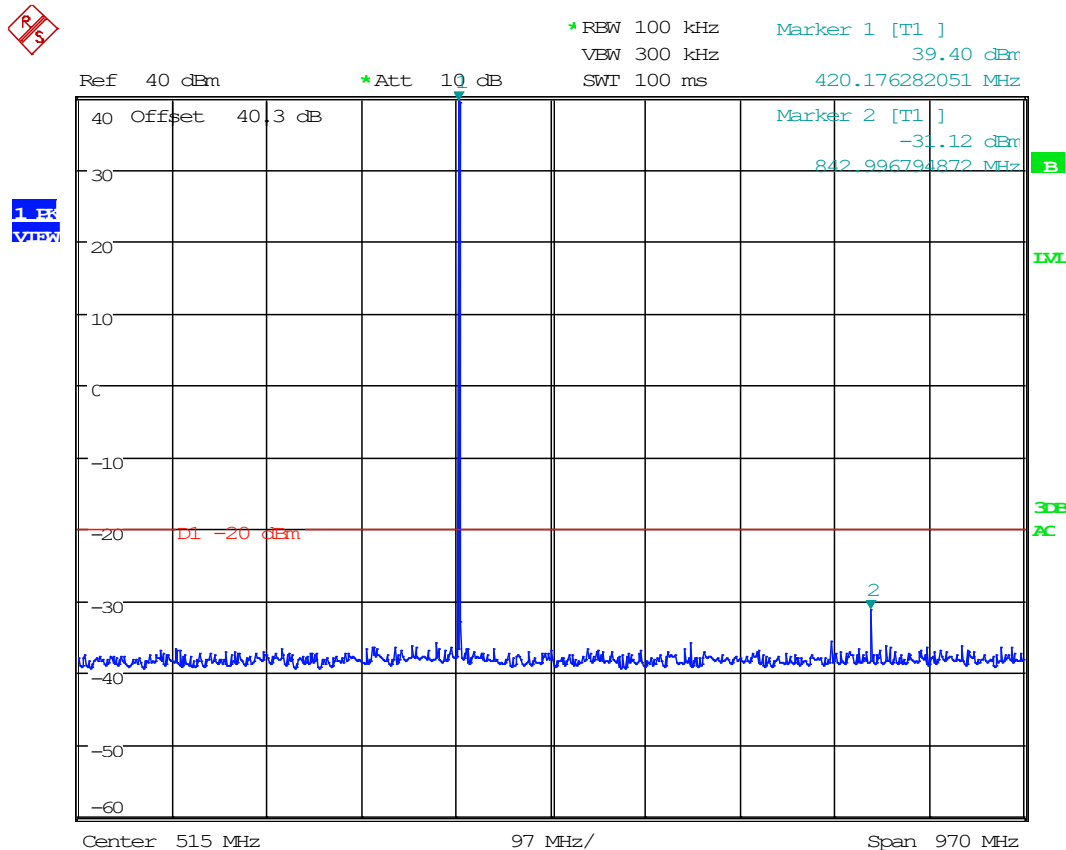
**ADJACENT CHANNEL POWER (511.975MHz, 25k Wide, 64QAM)**



Date: 13.MAY.2020 12:47:39

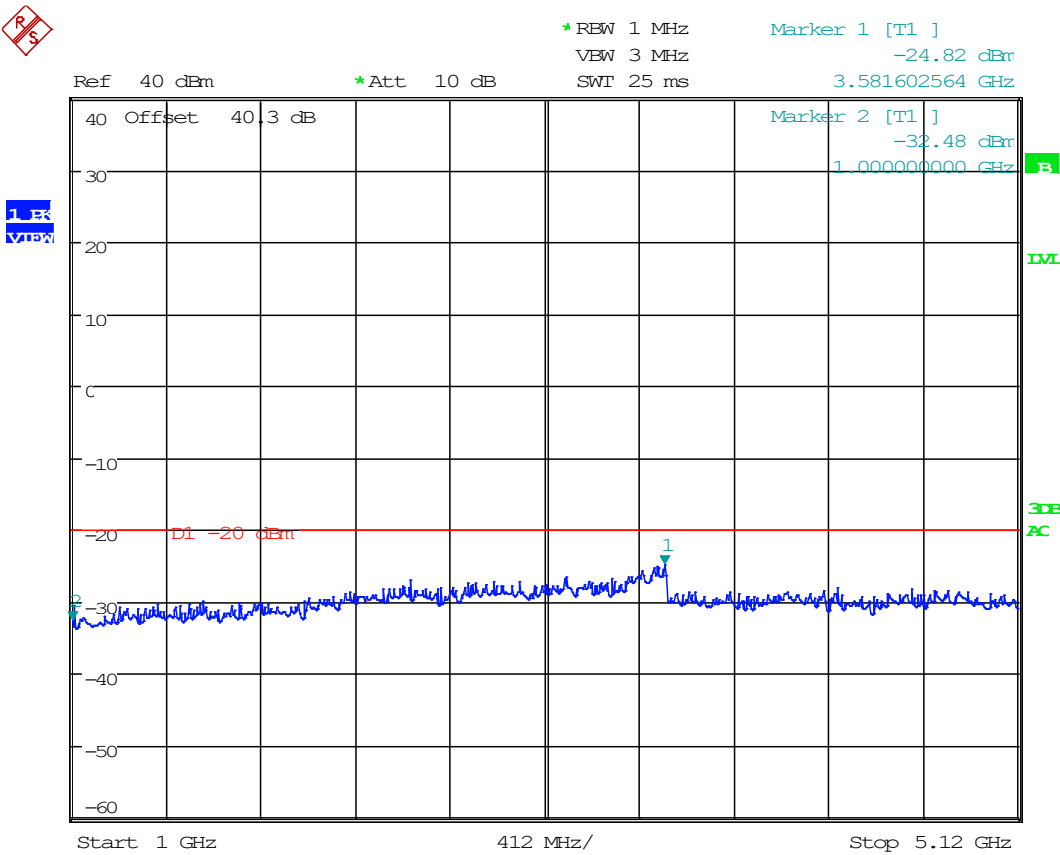
**CONDUCTED SPURIOUS EMISSIONS**Test Engineer: FR, TRTest Date: 05/08/2020

**NOTE: Conducted Spurious Emissions have not changed from certification. The new emissions were "spot-checked" on both bandwidths to ensure continuing compliance.**

**CONDUCTED SPURIOUS EMISSIONS (421.000MHz, GMSK, Below 1 GHz)**

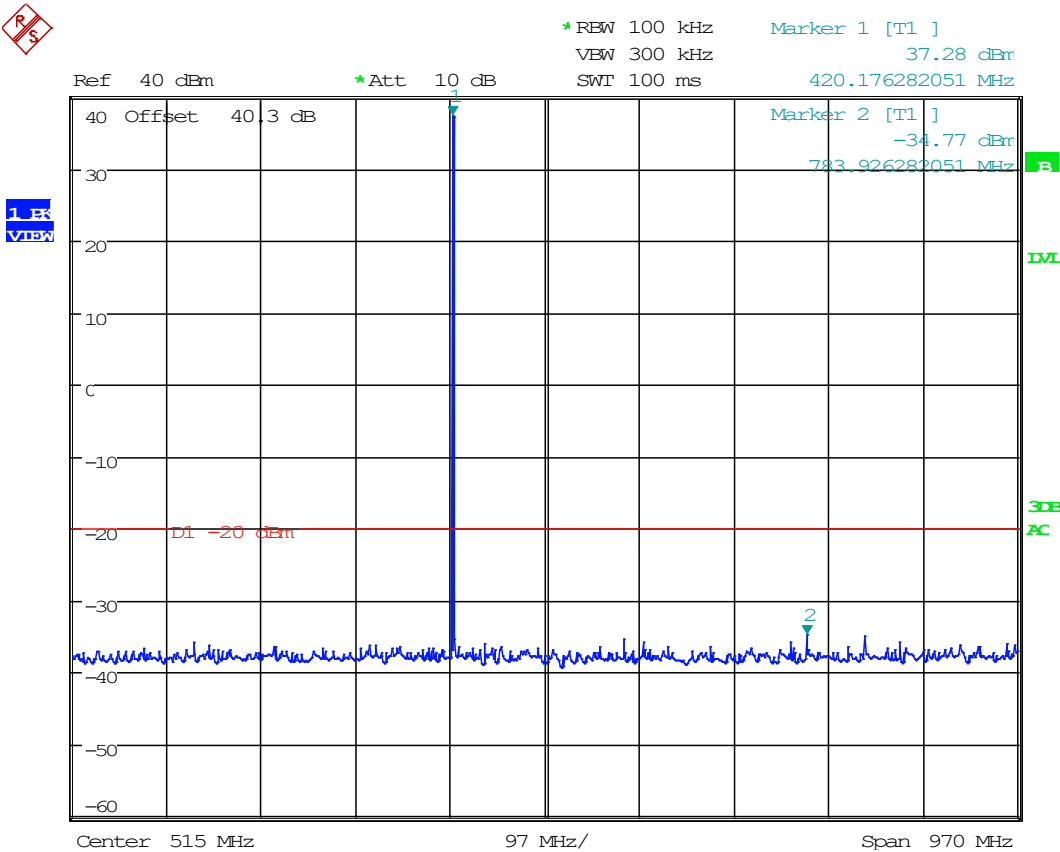
Date: 12.MAY.2020 12:28:15

**CONDUCTED SPURIOUS EMISSIONS (421.000MHz, GMSK, Above 1 GHz)**



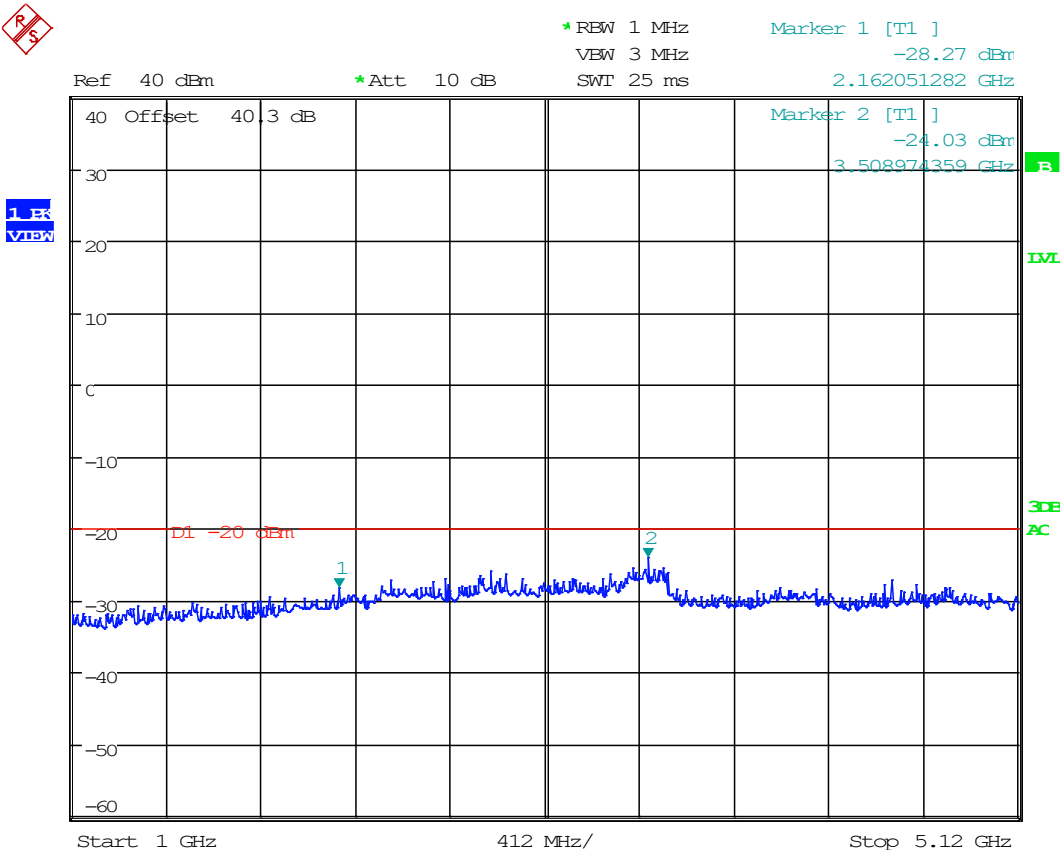
Date: 12.MAY.2020 12:28:57

**CONDUCTED SPURIOUS EMISSIONS (421.000MHz, 12.5k, 4QAM, Below 1 GHz)**



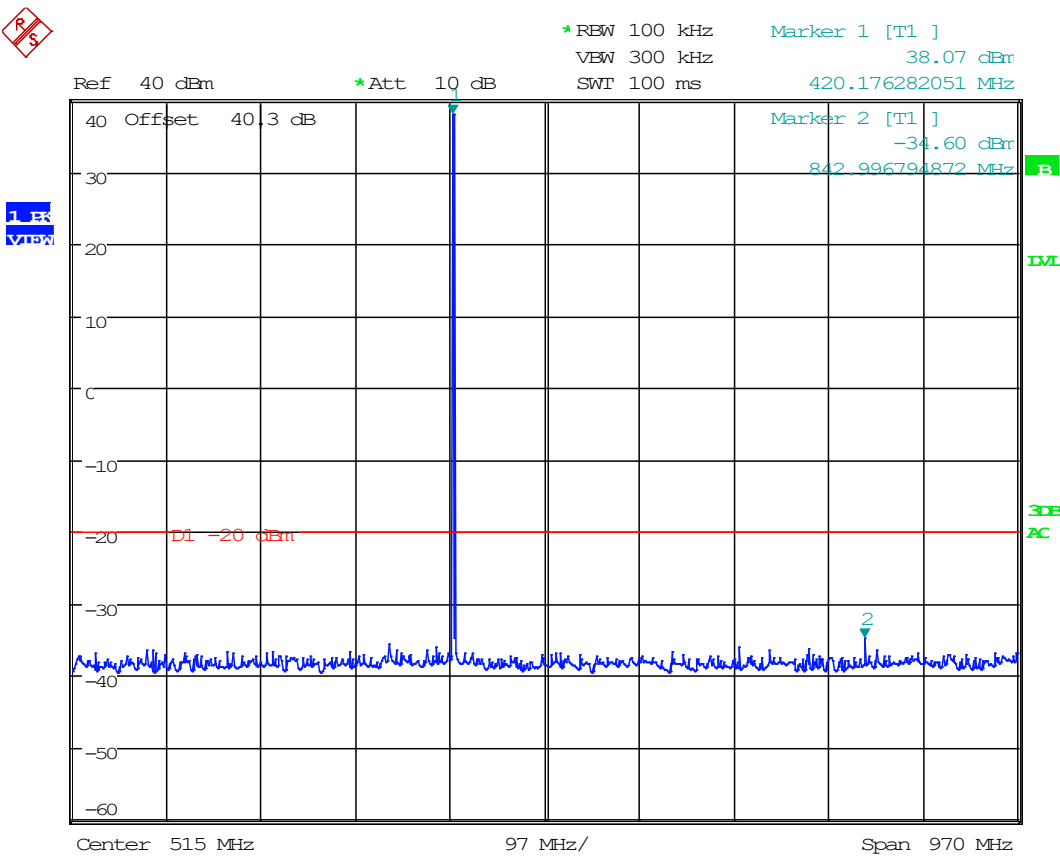
Date: 11.MAY.2020 13:31:20

**CONDUCTED SPURIOUS EMISSIONS (421.000MHz, 12.5k, 4QAM, Above 1 GHz)**



Date: 11.MAY.2020 13:32:51

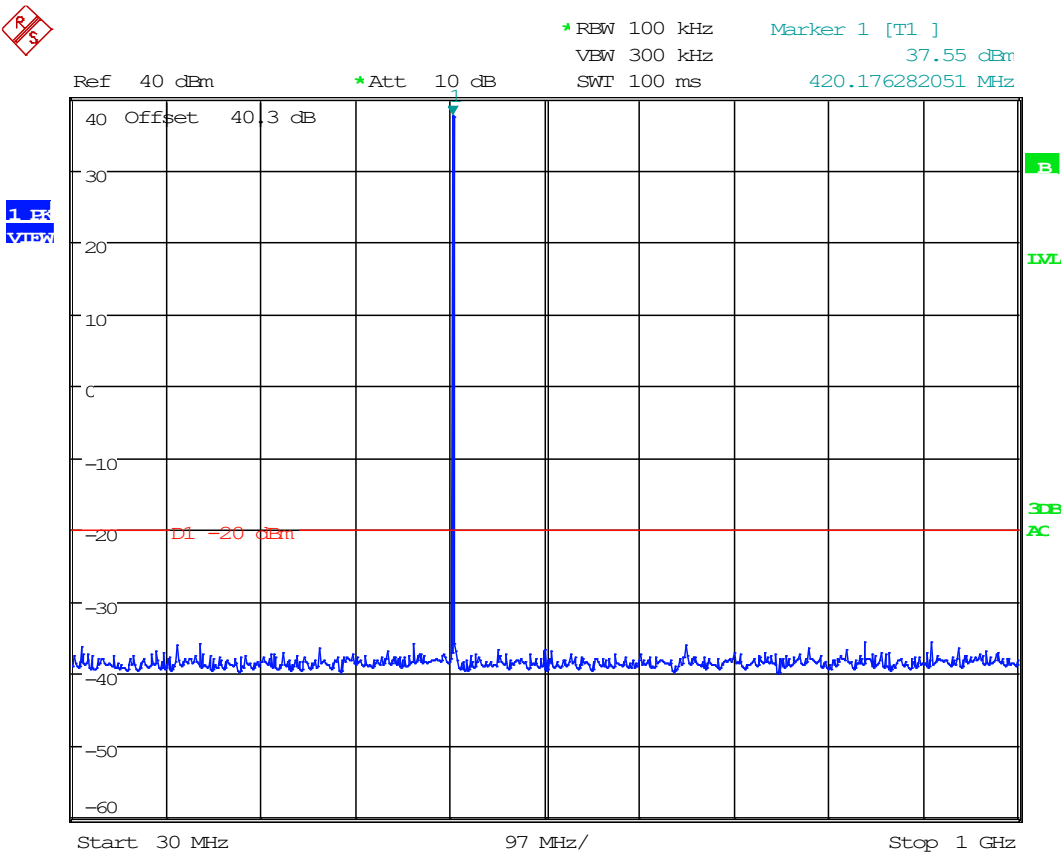
**CONDUCTED SPURIOUS EMISSIONS (421.000MHz, 25k, 4QAM, Below 1 GHz)**



Date: 12.MAY.2020 11:14:18

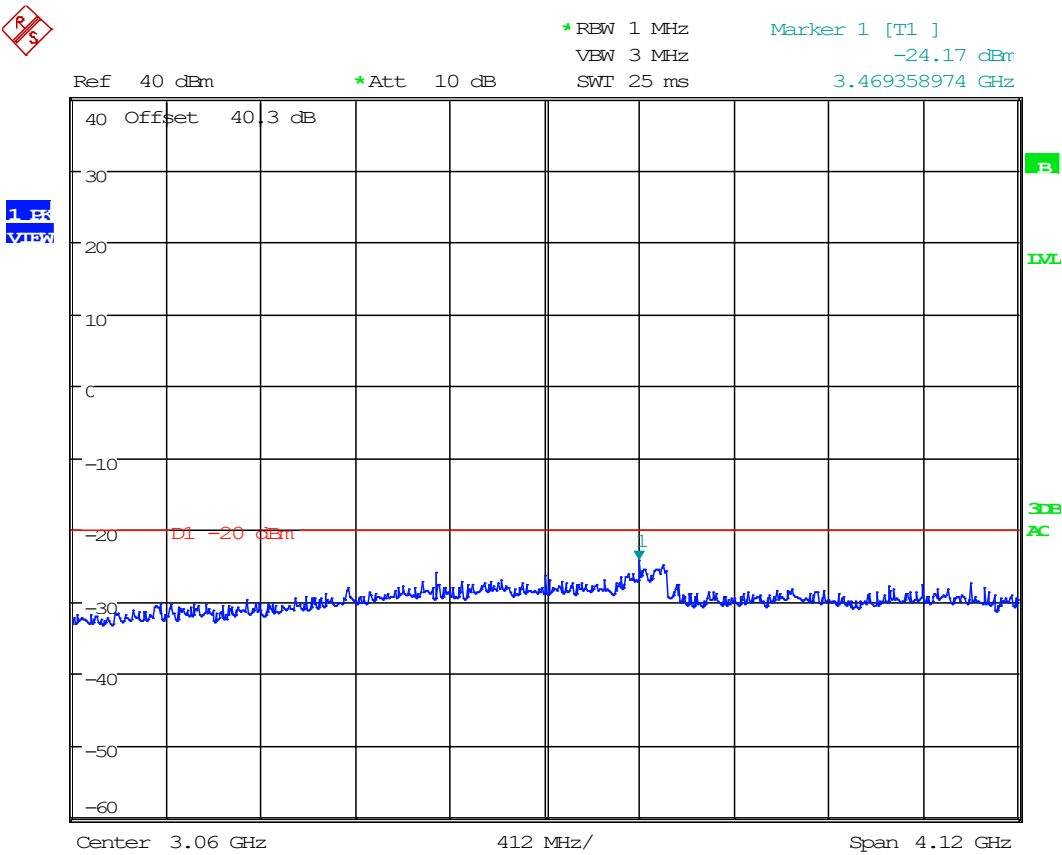


**CONDUCTED SPURIOUS EMISSIONS (421.000MHz, 25k Wide, 4QAM, Below 1 GHz)**



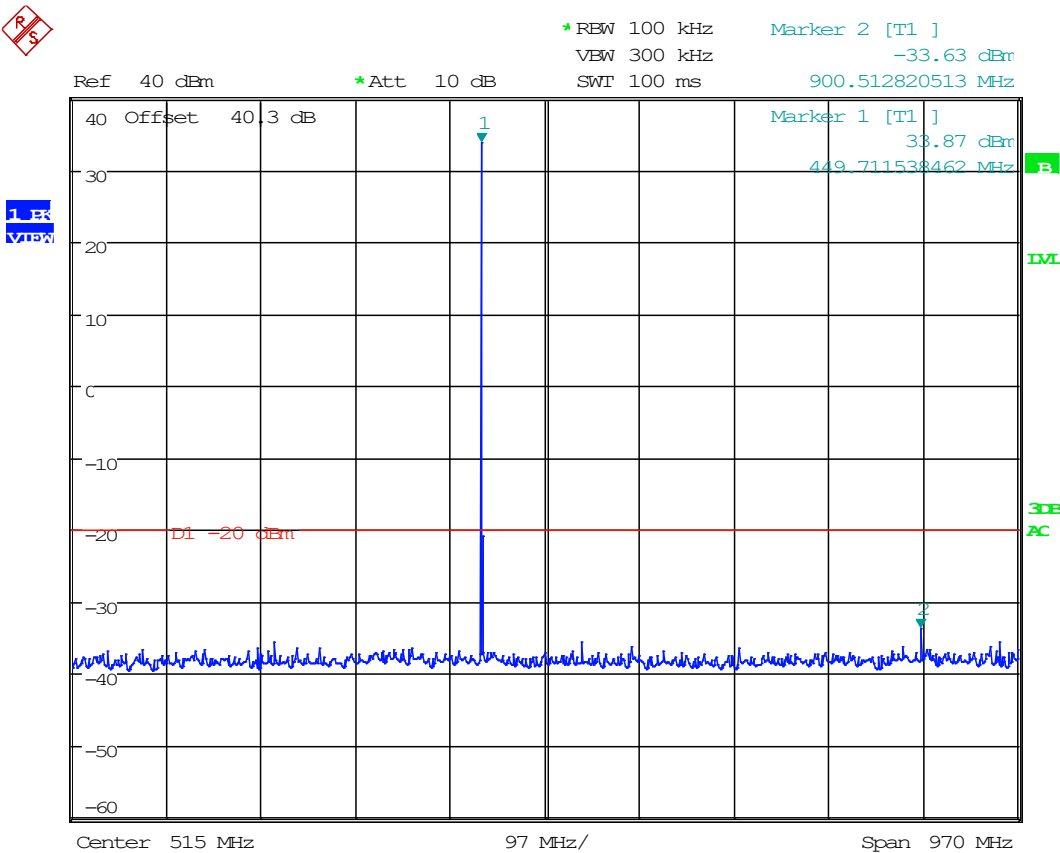
Date: 12.MAY.2020 11:57:50

**CONDUCTED SPURIOUS EMISSIONS (421.000MHz, 25k Wide, 4QAM, Above 1 GHz)**



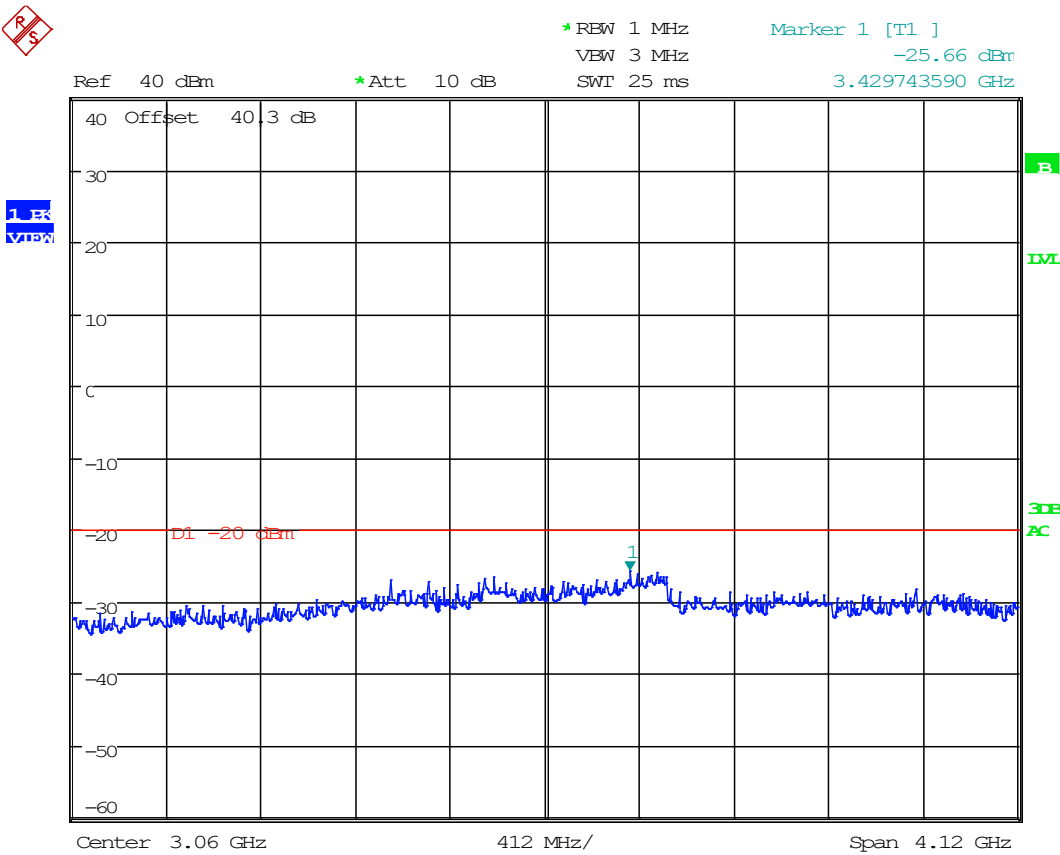
Date: 12.MAY.2020 11:59:37

**CONDUCTED SPURIOUS EMISSIONS (450.000MHz, GMSK, Below 1 GHz)**



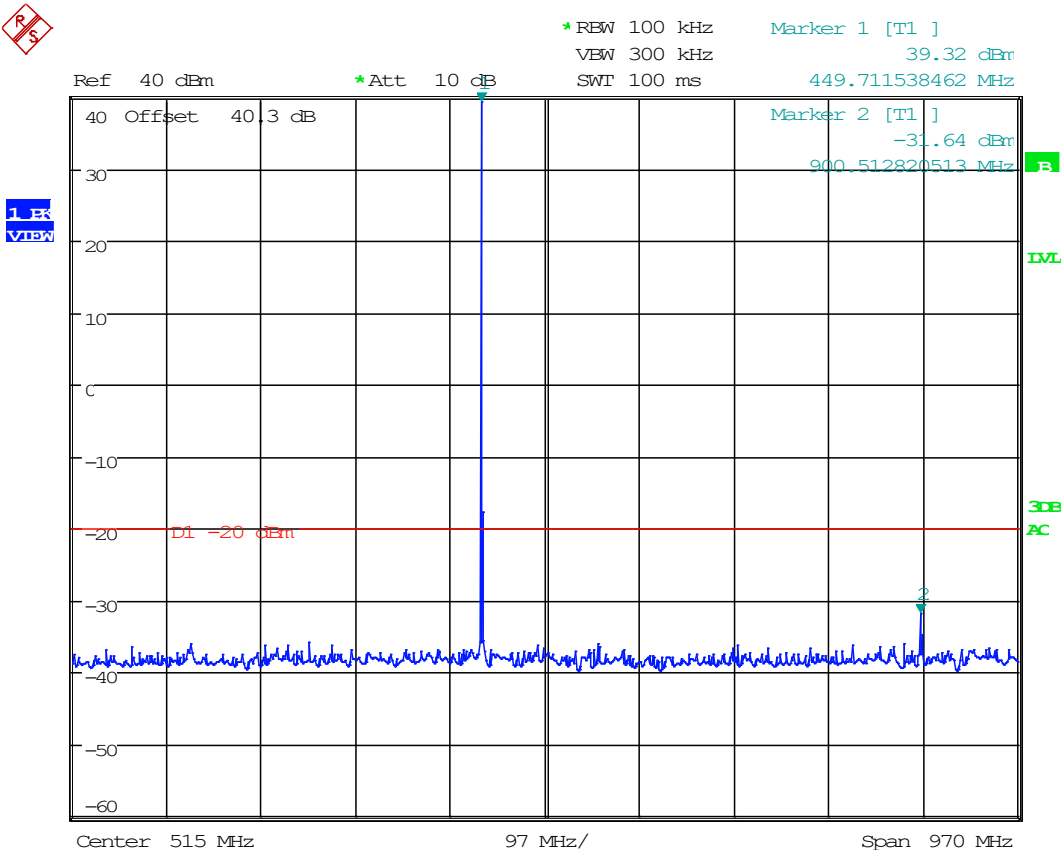
Date: 13.MAY.2020 10:37:38

**CONDUCTED SPURIOUS EMISSIONS (450.000MHz, GMSK, Above 1 GHz)**



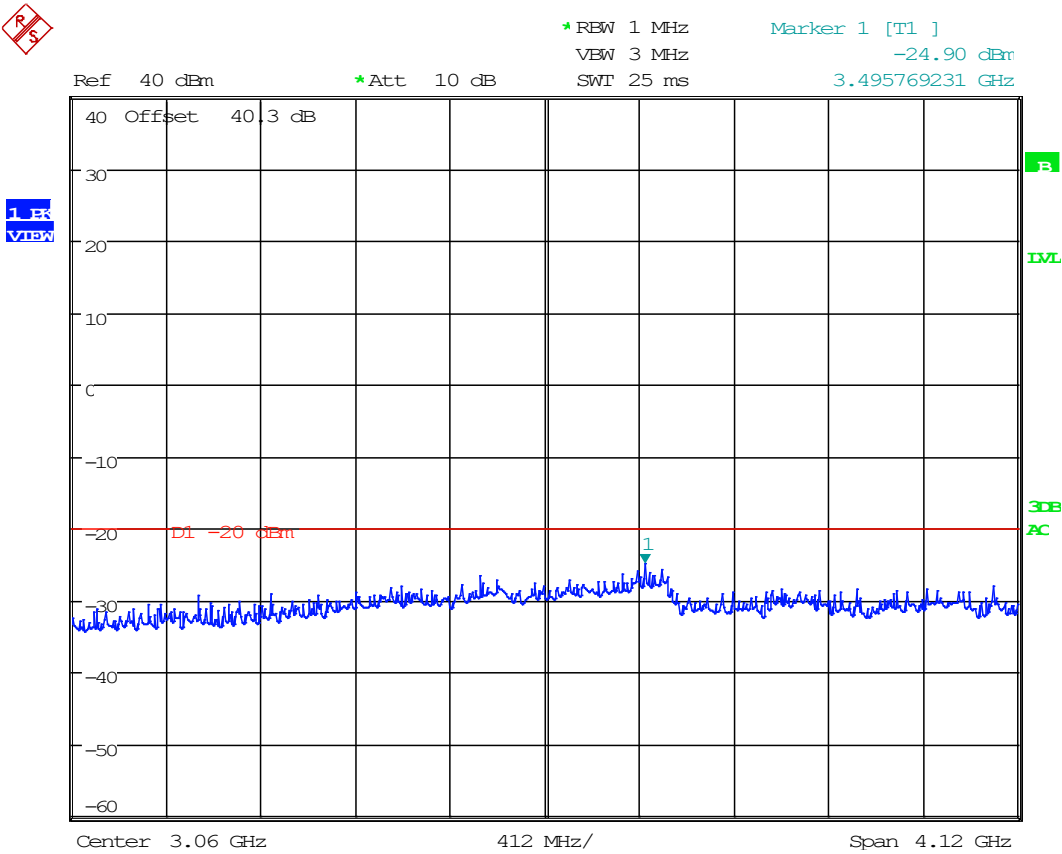
Date: 13.MAY.2020 10:57:00

CONDUCTED SPURIOUS EMISSIONS (450.000MHz, 12.5k, 4QAM, Below 1 GHz)



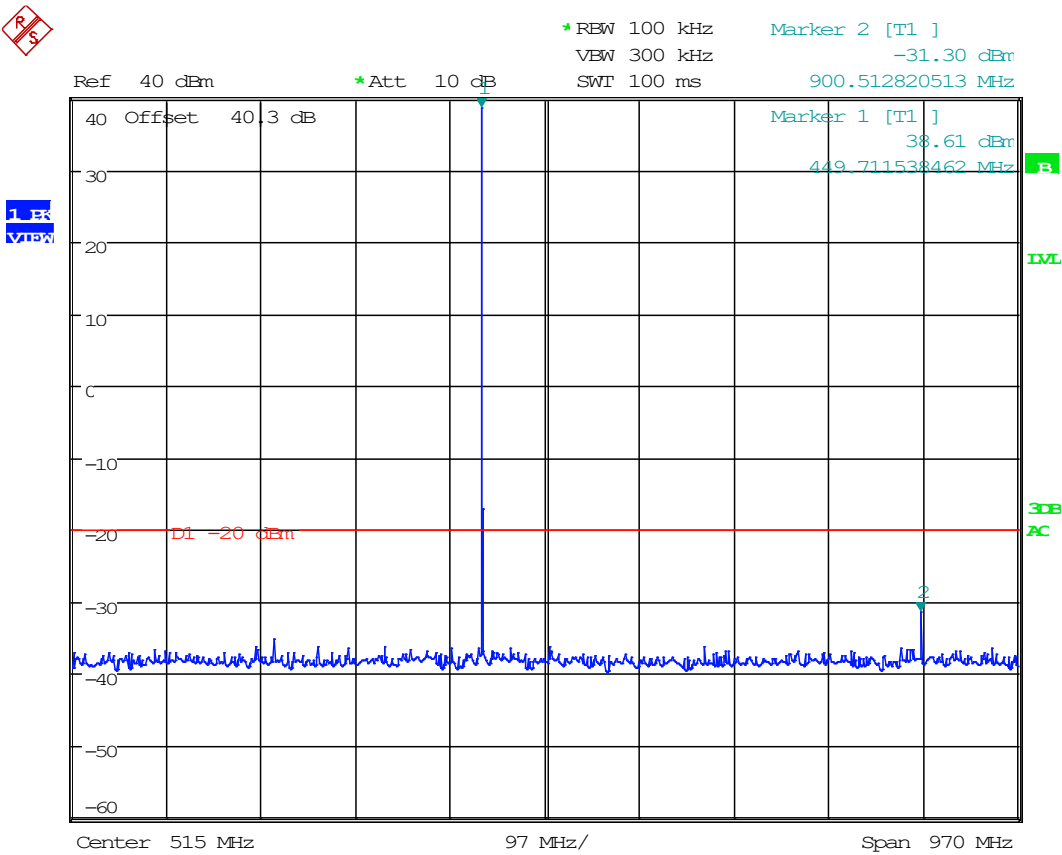
Date: 13.MAY.2020 10:52:41

**CONDUCTED SPURIOUS EMISSIONS (450.000MHz, 12.5k, 4QAM, Above 1 GHz)**



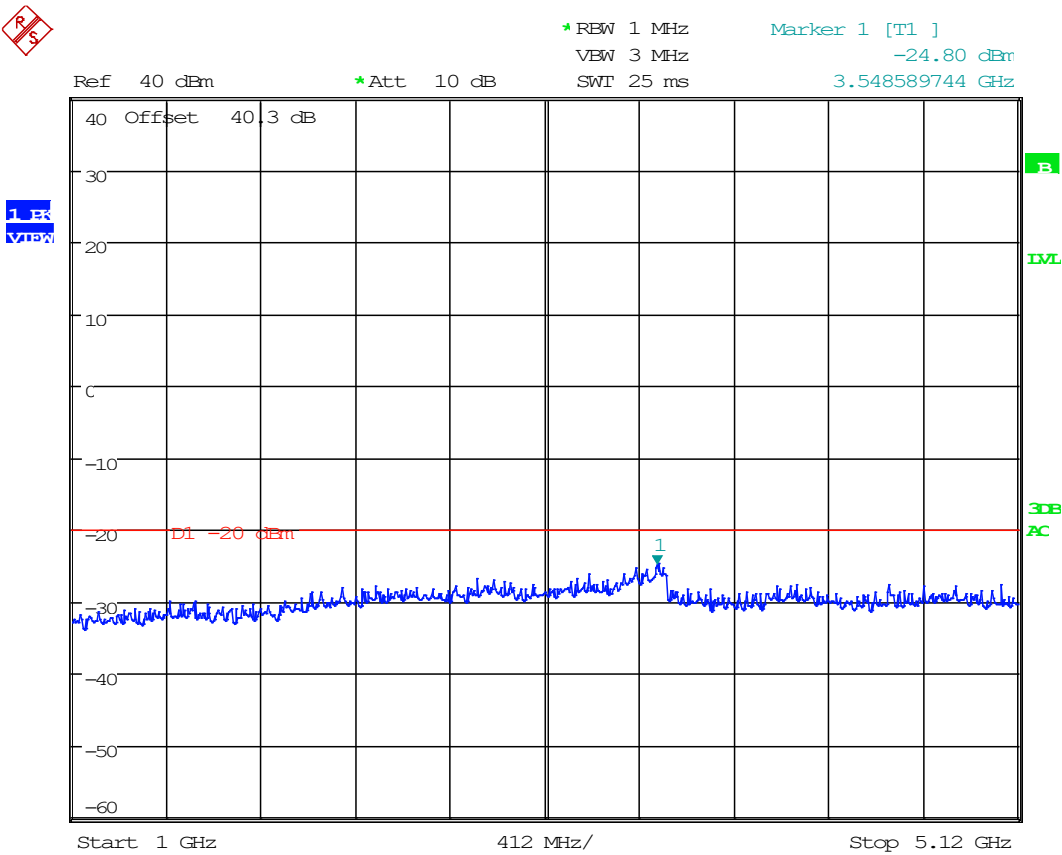
Date: 13.MAY.2020 10:57:28

**CONDUCTED SPURIOUS EMISSIONS (450.000MHz, 25k, 4QAM, Below 1 GHz)**



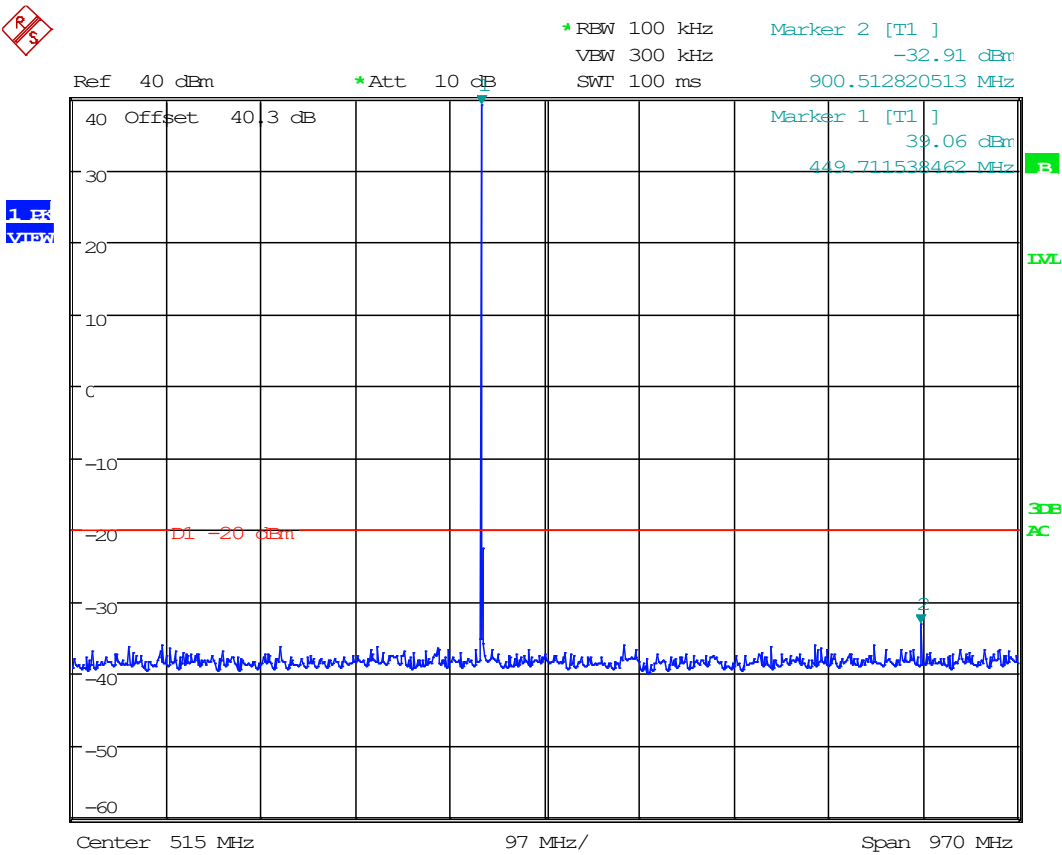
Date: 13.MAY.2020 11:34:40

**CONDUCTED SPURIOUS EMISSIONS (450.000MHz, 25k, 4QAM, Above 1 GHz)**



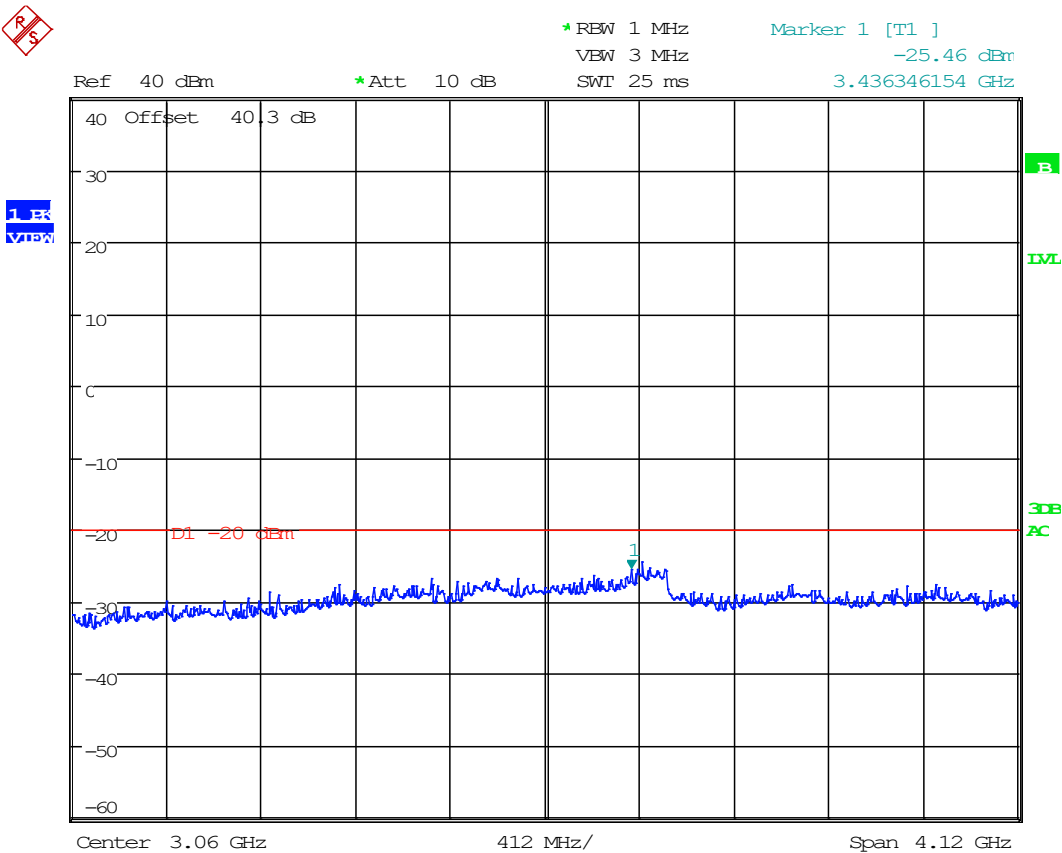
Date: 13.MAY.2020 11:30:25

**CONDUCTED SPURIOUS EMISSIONS (450.000MHz, 25k Wide, 4QAM, Below 1 GHz)**



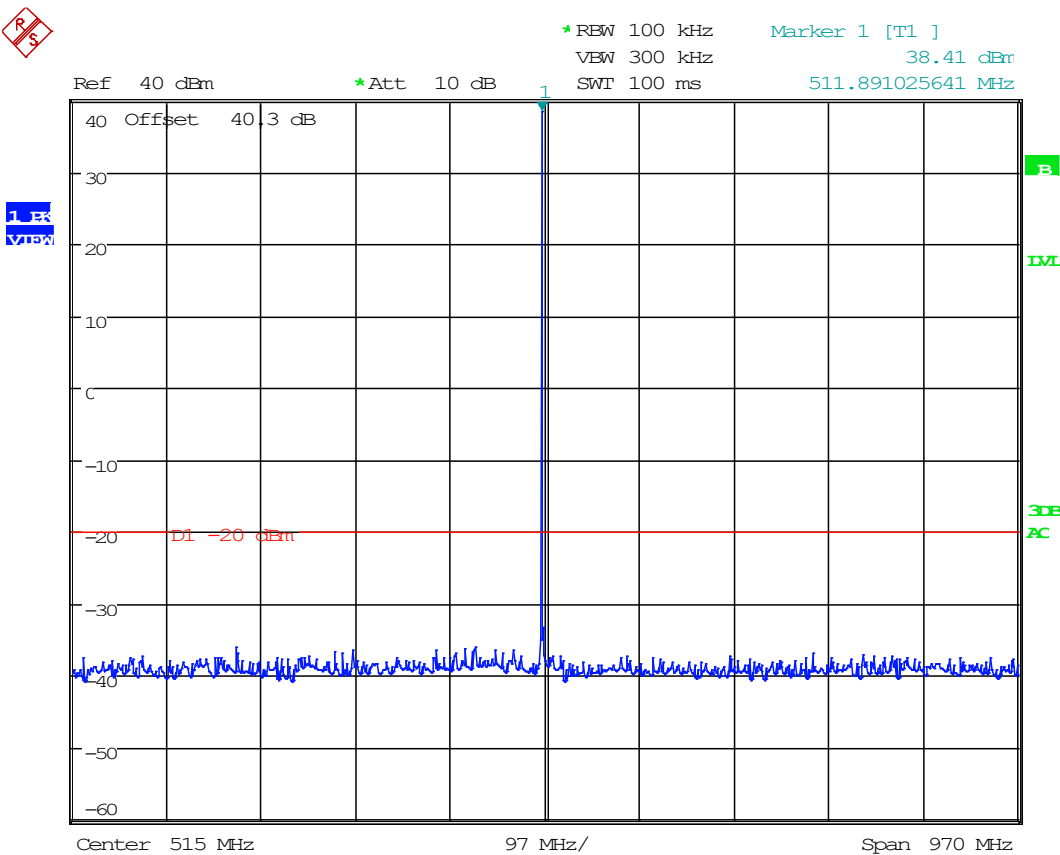
Date: 13.MAY.2020 12:14:06

**CONDUCTED SPURIOUS EMISSIONS (450.000MHz, 25k Wide, 4QAM, Above 1 GHz)**



Date: 13.MAY.2020 12:16:06

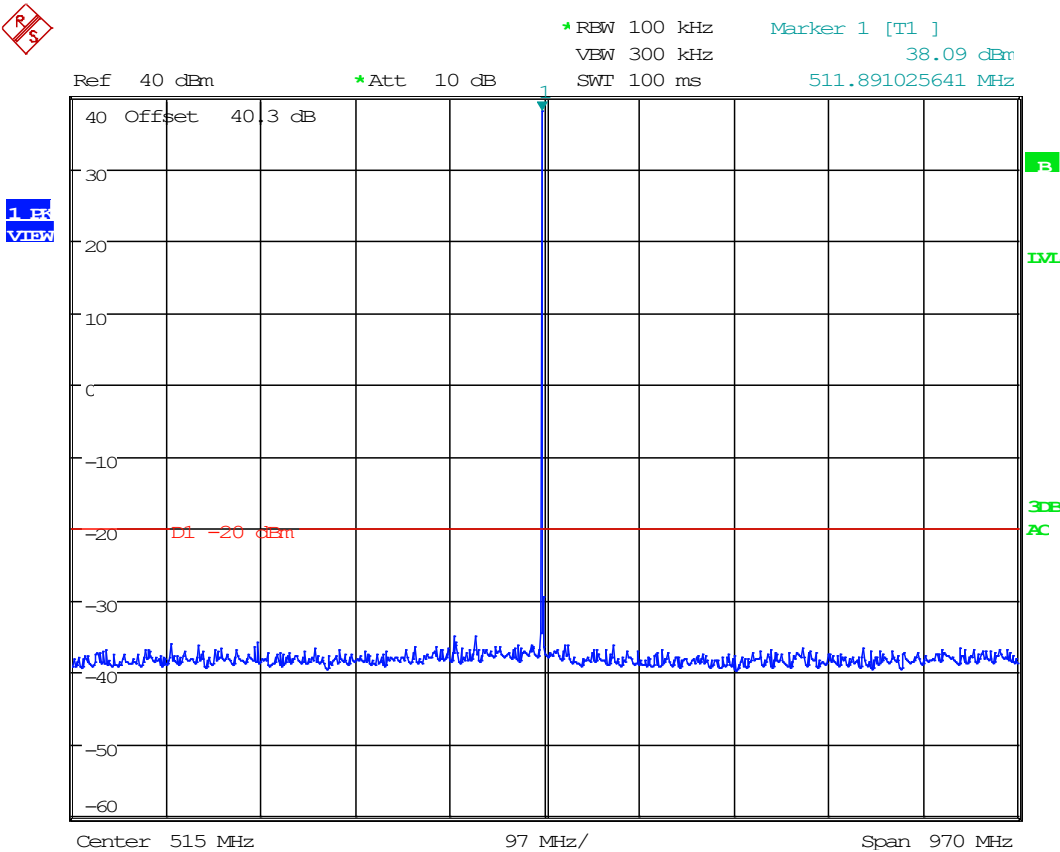
**CONDUCTED SPURIOUS EMISSIONS (511.975MHz, GMSK, Below 1 GHz)**



Date: 13.MAY.2020 10:54:10

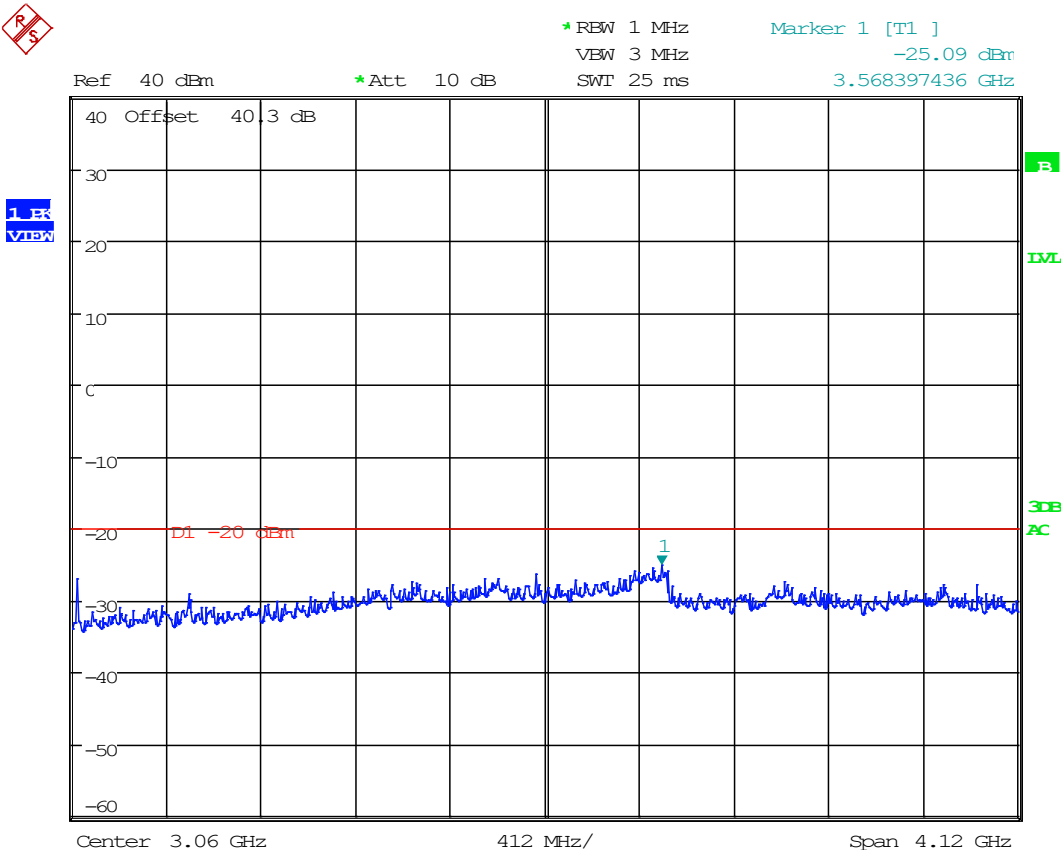


**CONDUCTED SPURIOUS EMISSIONS (511.975MHz, 12.5k, 4QAM, Below 1 GHz)**



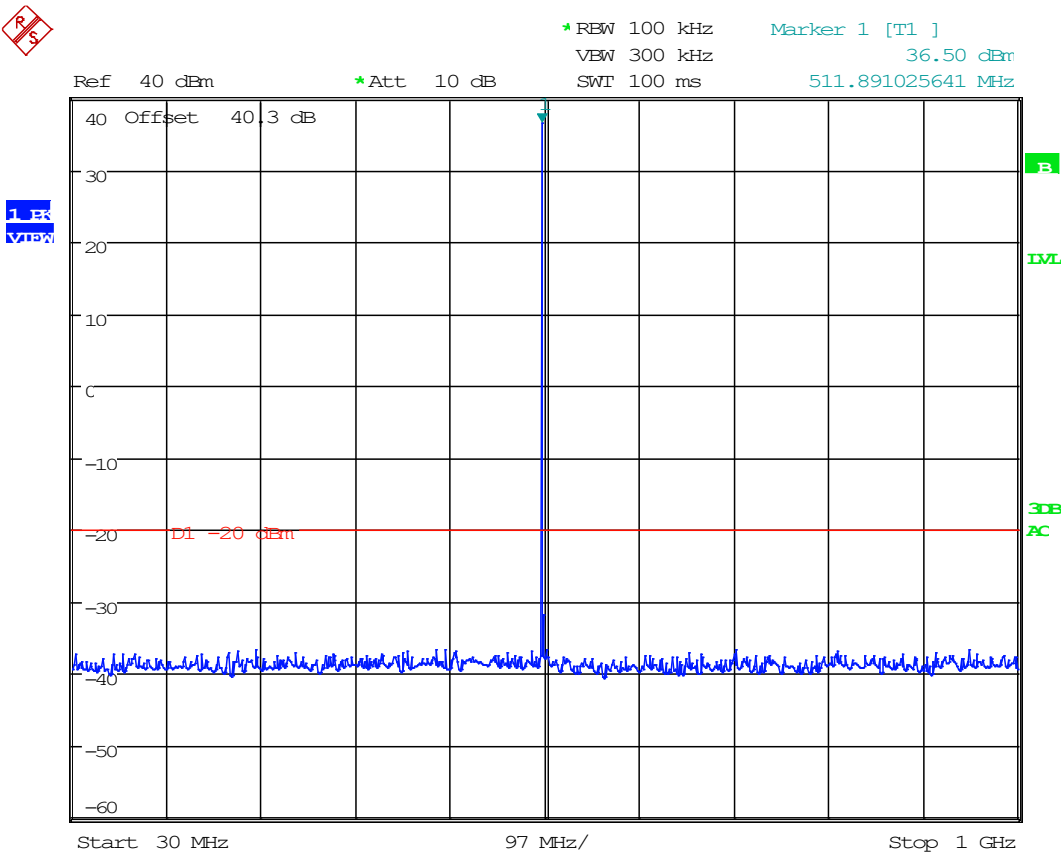
Date: 13.MAY.2020 10:53:48

**CONDUCTED SPURIOUS EMISSIONS (511.975MHz, 12.5k, 4QAM, Above 1 GHz)**



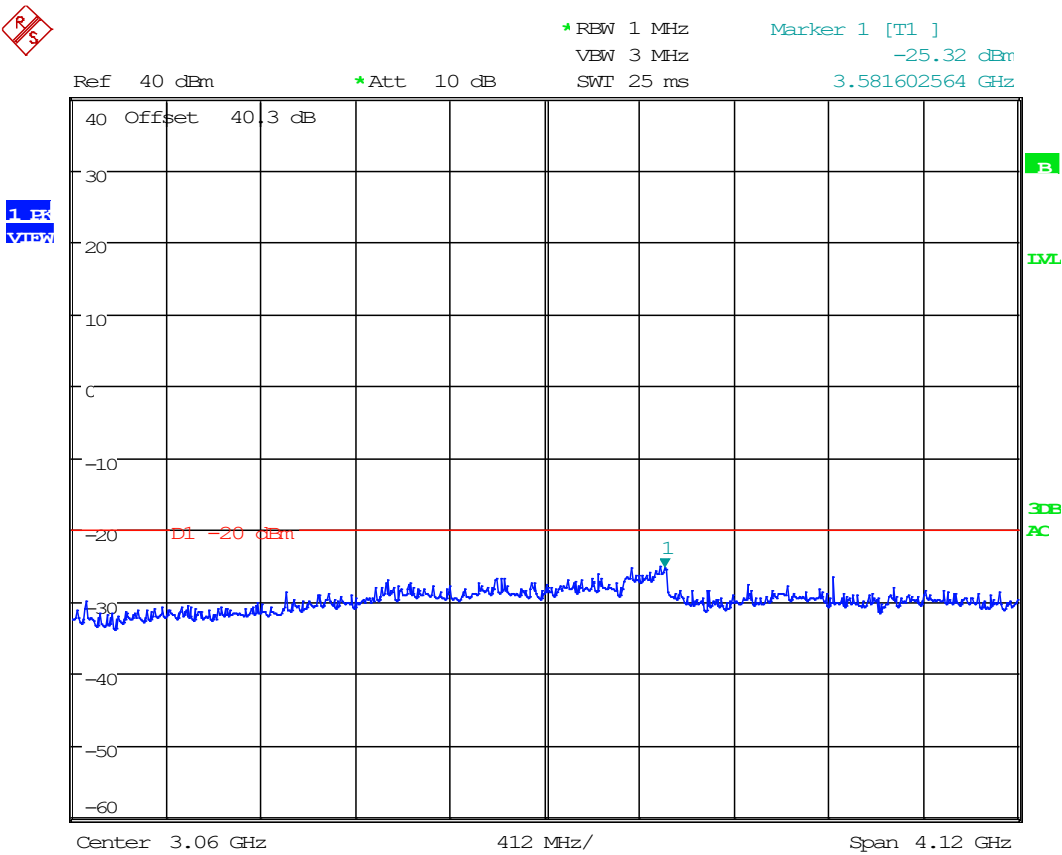
Date: 13.MAY.2020 10:57:58

**CONDUCTED SPURIOUS EMISSIONS (511.975MHz, 25k, 4QAM, Below 1 GHz)**



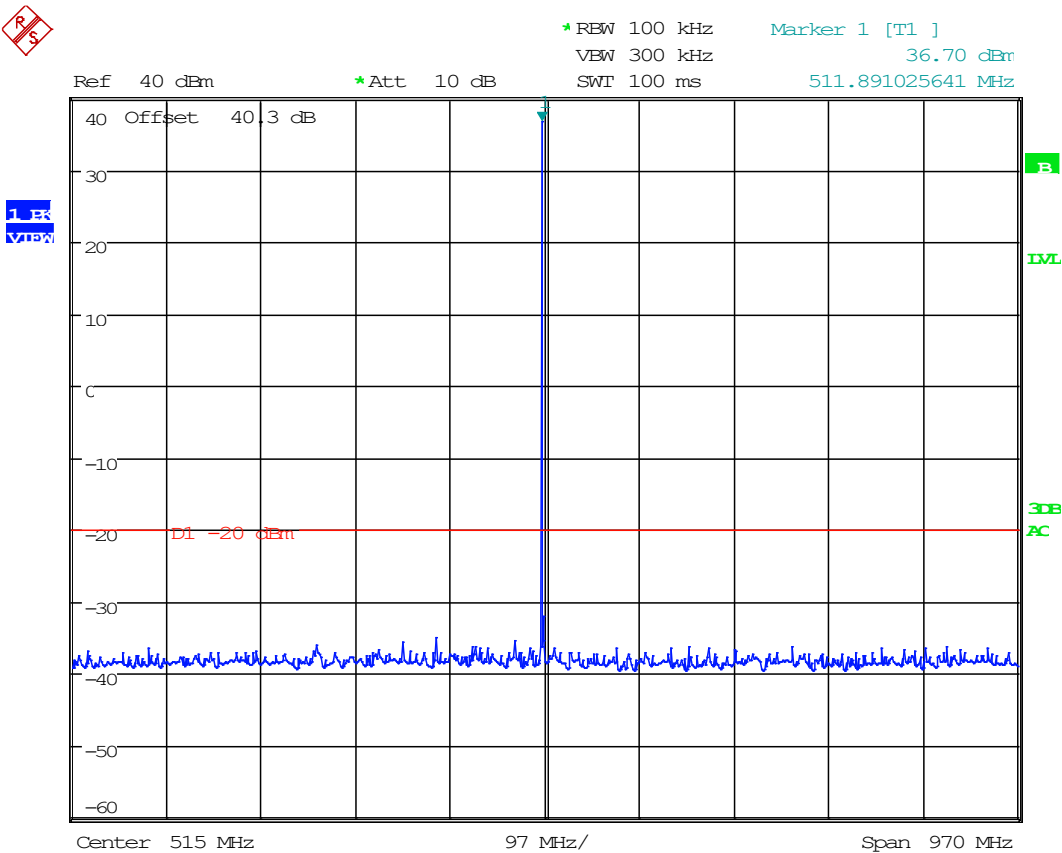
Date: 13.MAY.2020 11:34:05

**CONDUCTED SPURIOUS EMISSIONS (511.975MHz, 25k, 4QAM, Above 1 GHz)**



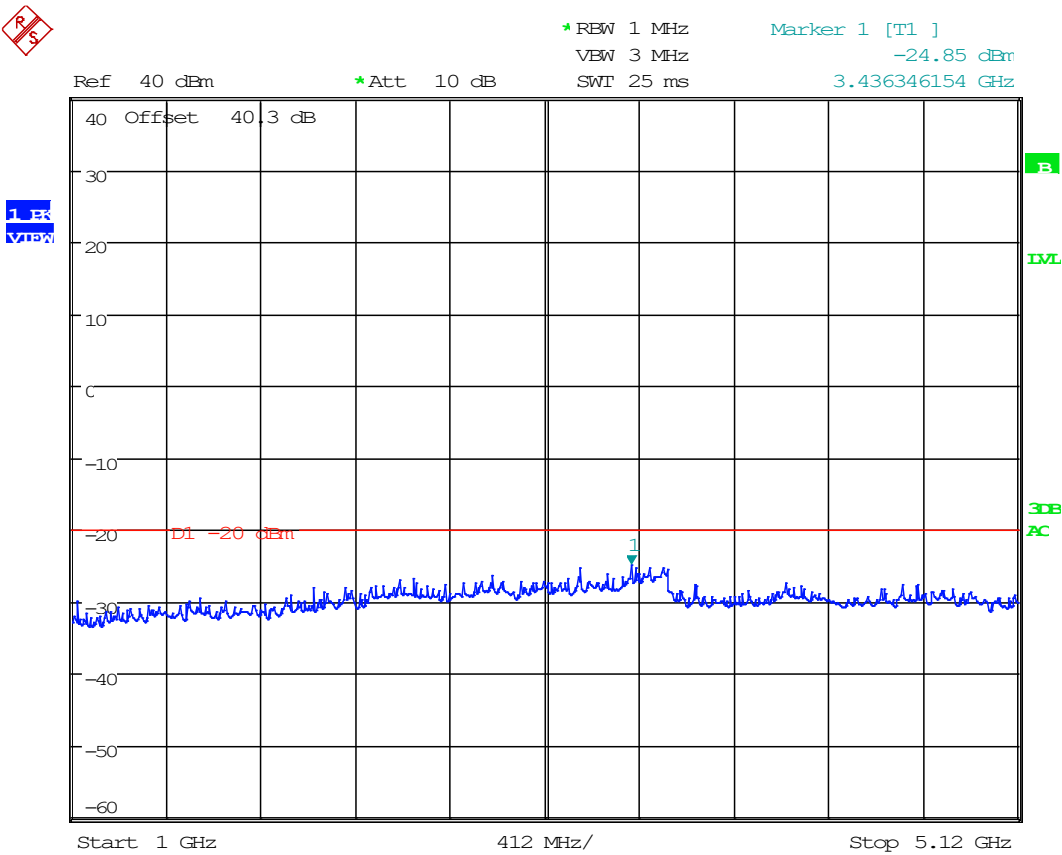
Date: 13.MAY.2020 11:33:32

**CONDUCTED SPURIOUS EMISSIONS (511.975MHz, 25k Wide, 4QAM, Below 1 GHz)**



Date: 13.MAY.2020 12:14:41

**CONDUCTED SPURIOUS EMISSIONS (511.975MHz, 25k Wide, 4QAM, Above 1 GHz)**



Date: 13.MAY.2020 12:15:37

**END OF TEST REPORT**