

## Appendix B

### RF Test Data for BT V4.2(BDR/EDR) (Conducted Measurement)

Product Name: BLUETOOTH SPEAKER

Trade Mark: N/A

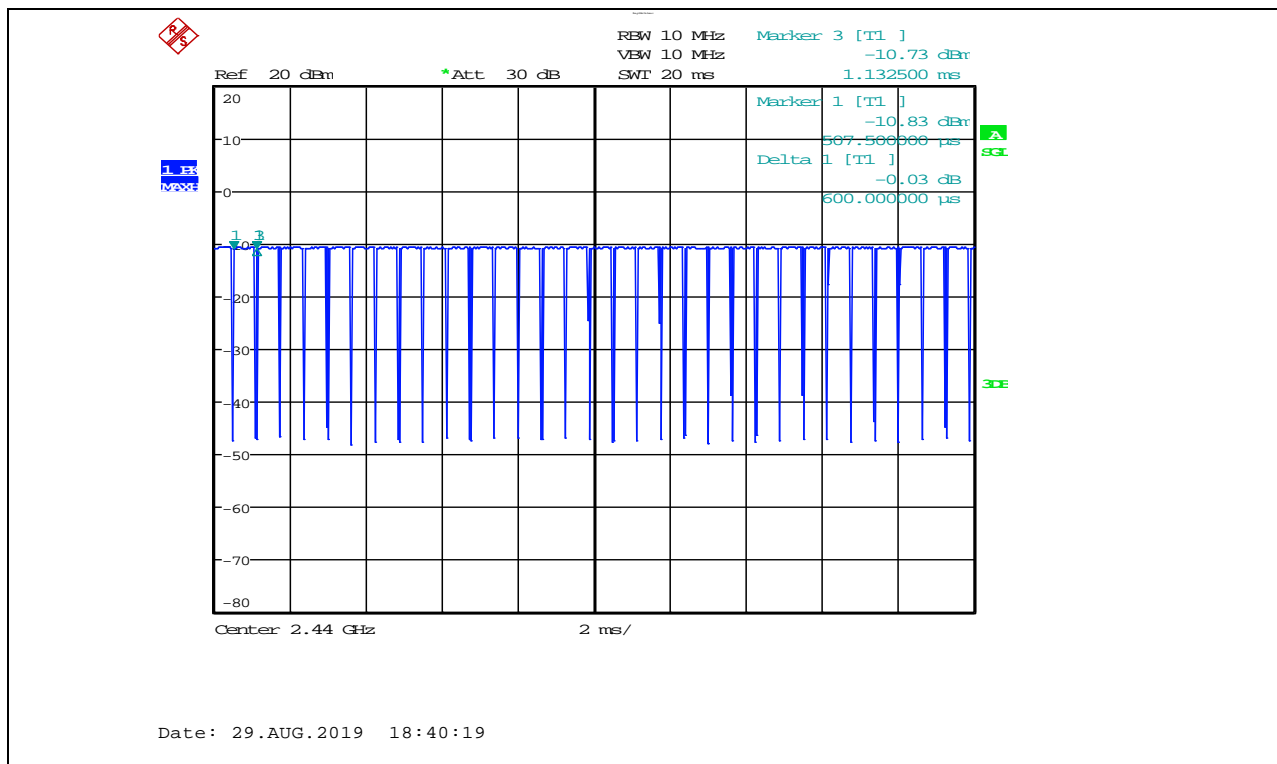
Test Model: BSSK9025

#### Environmental Conditions

|                    |             |
|--------------------|-------------|
| Temperature:       | 24.8 ° C    |
| Relative Humidity: | 54.2 %      |
| ATM Pressure:      | 100.0 kPa   |
| Test Engineer:     | Alisa Huang |
| Supervised by:     | Wang.Chuang |

#### B.1 Duty Cycle

| Test Mode | Test Channel | Ant  | Duty Cycle[%] | Verdict |
|-----------|--------------|------|---------------|---------|
| BT LE     | 2440         | Ant1 | 96            | PASS    |



## B.2 Maximum Conducted Peak Output Power

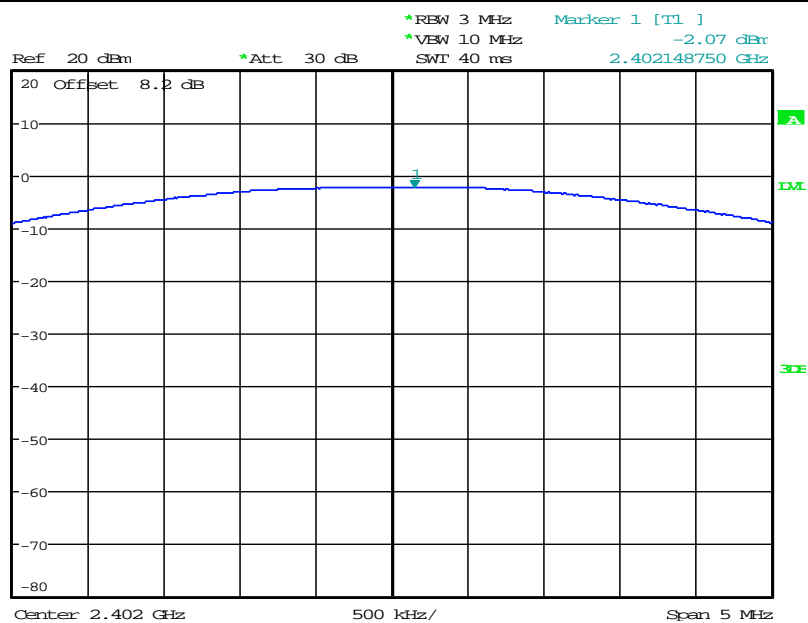
| Mode  | Channel | Conduct Peak Power[dBm] | Limit [dBm] | Verdict |
|-------|---------|-------------------------|-------------|---------|
| BT LE | LCH     | -2.07                   | 30          | PASS    |
| BT LE | MCH     | -2.19                   | 30          | PASS    |
| BT LE | HCH     | -3.1                    | 30          | PASS    |

### Test Graphs

LCH



Ref 20 dBm  
Offset 8.2 dB  
\*Att 30 dB  
\*RBW 3 MHz  
\*VBW 10 MHz  
SWT 40 ms

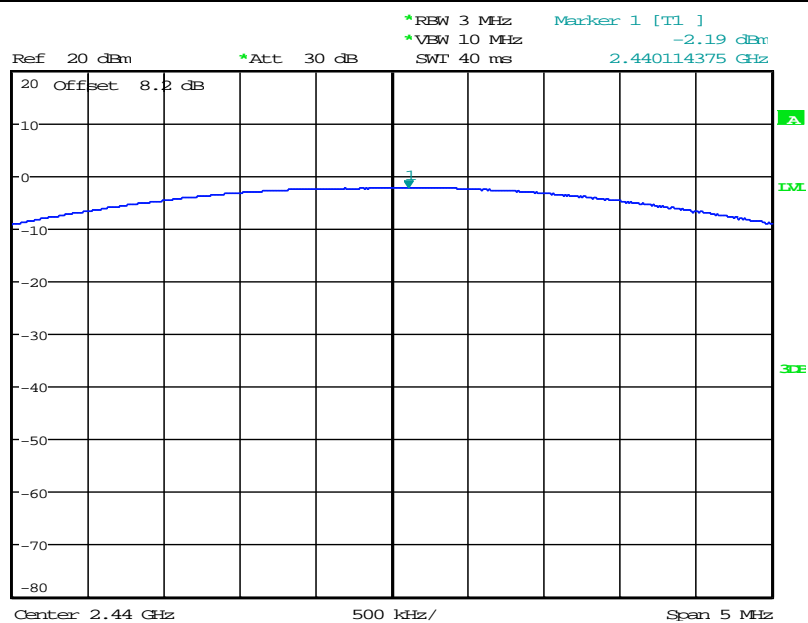


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MCH



Ref 20 dBm  
Offset 8.2 dB  
\*Att 30 dB  
\*RBW 3 MHz  
\*VBW 10 MHz  
SWT 40 ms

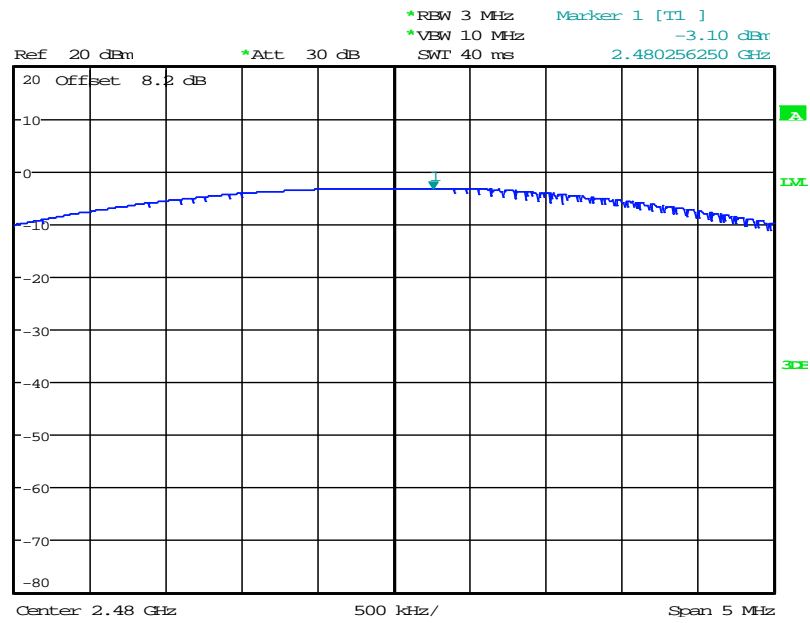


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HCH



PL E3  
VITEA



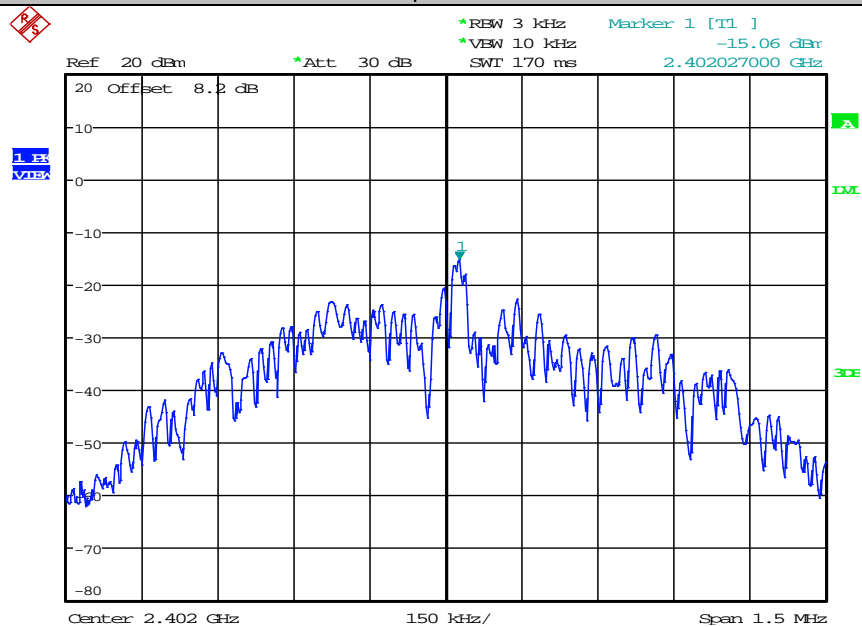
Date: 29.AUG.2019 18:37:50

### B.3 Maximum Power Spectral Density

| Mode  | Channel | PSD [dBm/3KHz] | Limit [dBm/3KHz] | Verdict |
|-------|---------|----------------|------------------|---------|
| BT LE | LCH     | -15.060        | 8                | PASS    |
| BT LE | MCH     | -15.160        | 8                | PASS    |
| BT LE | HCH     | -16.130        | 8                | PASS    |

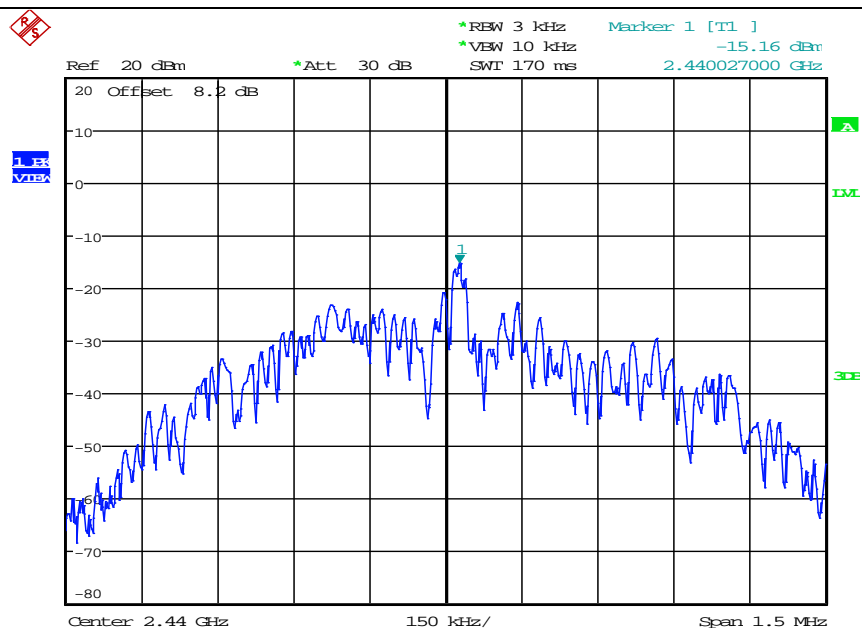
Test Graphs

LCH



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MCH

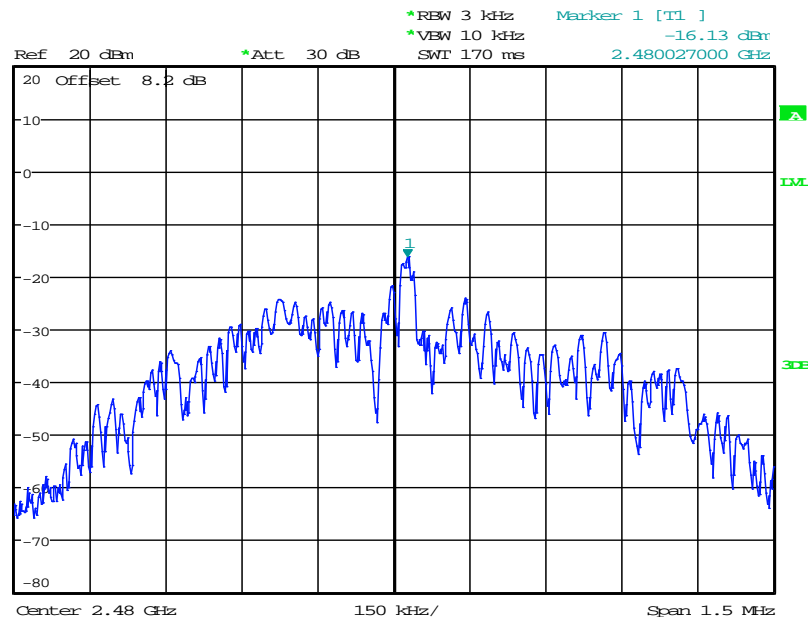


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HCH



1.33  
VTPA



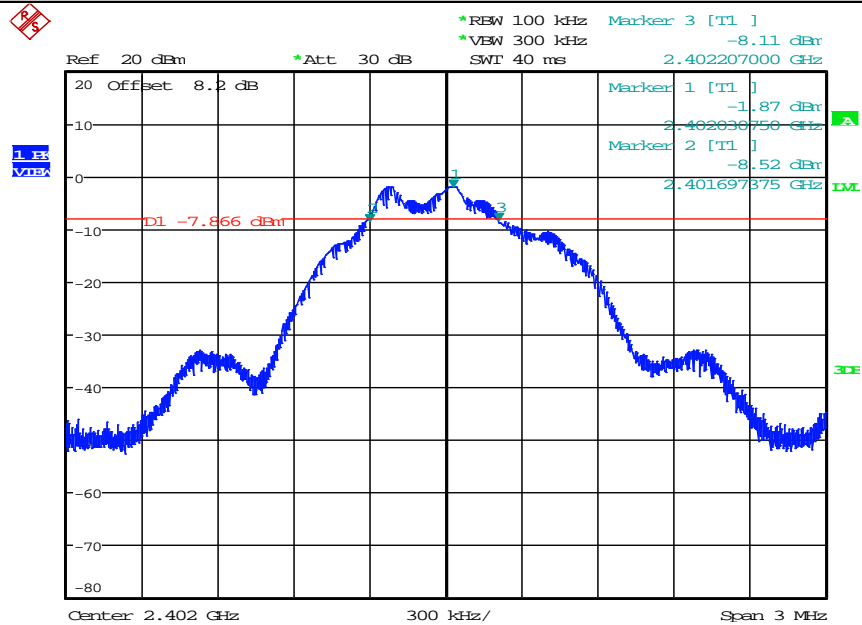
Date: 29.AUG.2019 18:38:05

## B.4 6dB Bandwidth

| Mode  | Channel | 6dB Bandwidth [MHz] | Limit [MHz] | Verdict |
|-------|---------|---------------------|-------------|---------|
| BT LE | LCH     | 0.510               | $\geq 0.5$  | PASS    |
| BT LE | MCH     | 0.507               | $\geq 0.5$  | PASS    |
| BT LE | HCH     | 0.506               | $\geq 0.5$  | PASS    |

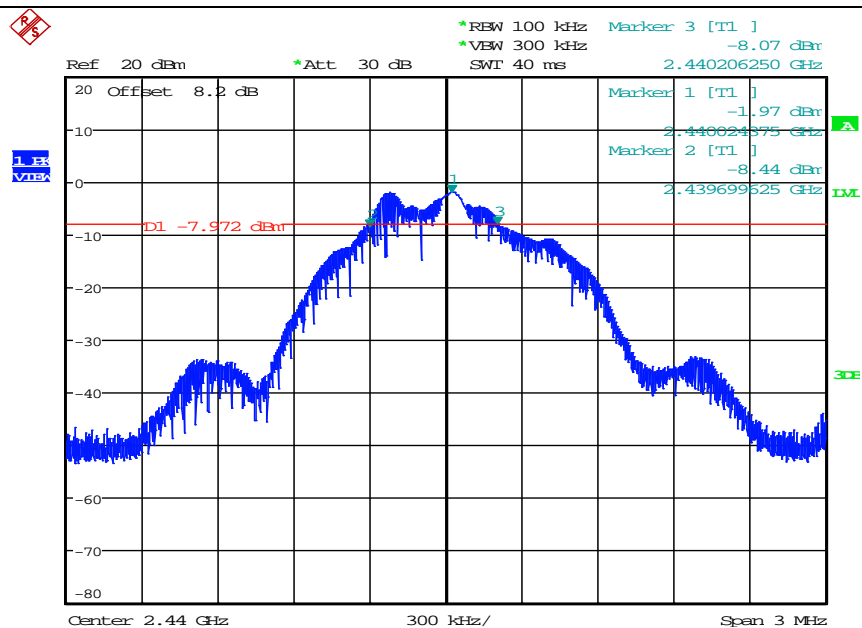
Test Graphs

LCH



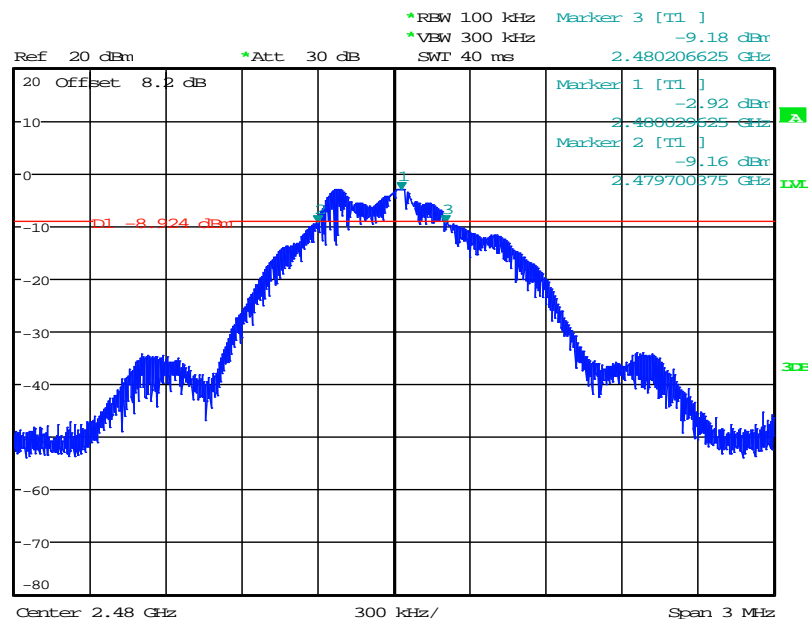
Date: 29.AUG.2019 18:25:37

MCH



Date: 29.AUG.2019 18:33:49

HCH

H.F.  
V.M.P.A.

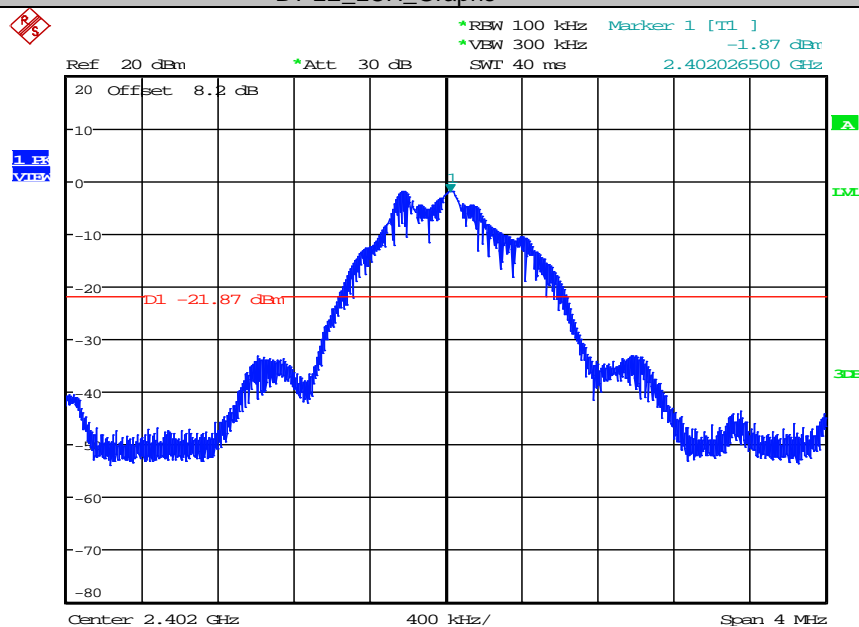
Date: 29.AUG.2019 18:37:37

## B.5 RF Conducted Spurious Emissions

| Mode  | Channel | Pref [dBm] | Max. Level [dBm] | Limit [dBm] | Verdict |
|-------|---------|------------|------------------|-------------|---------|
| BT LE | LCH     | -1.87      | -31.970          | -21.870     | PASS    |
| BT LE | MCH     | -1.98      | -30.840          | -21.980     | PASS    |
| BT LE | HCH     | -2.92      | -31.900          | -22.920     | PASS    |

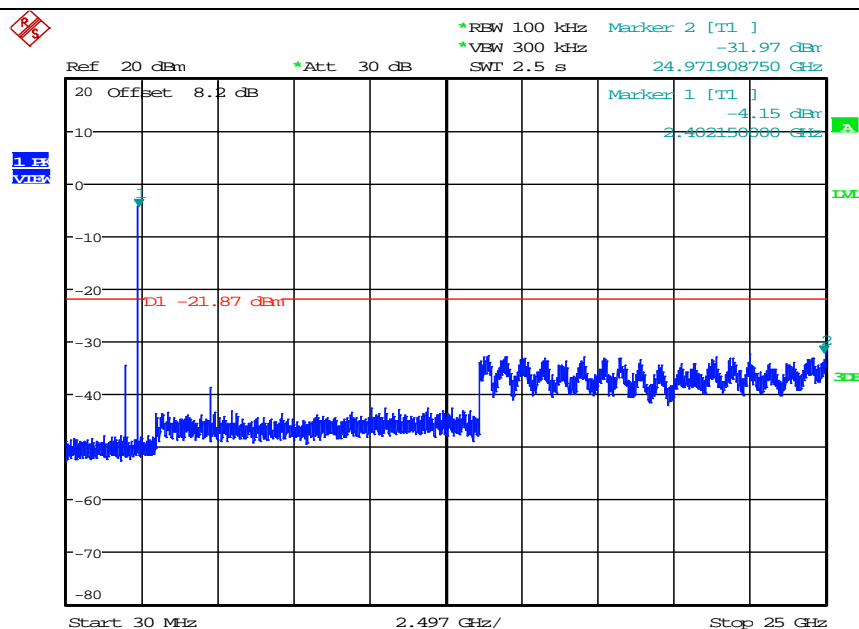
BT LE\_LCH\_Graphs

Pref/BT LE/LCH



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Puw/BT LE/LCH



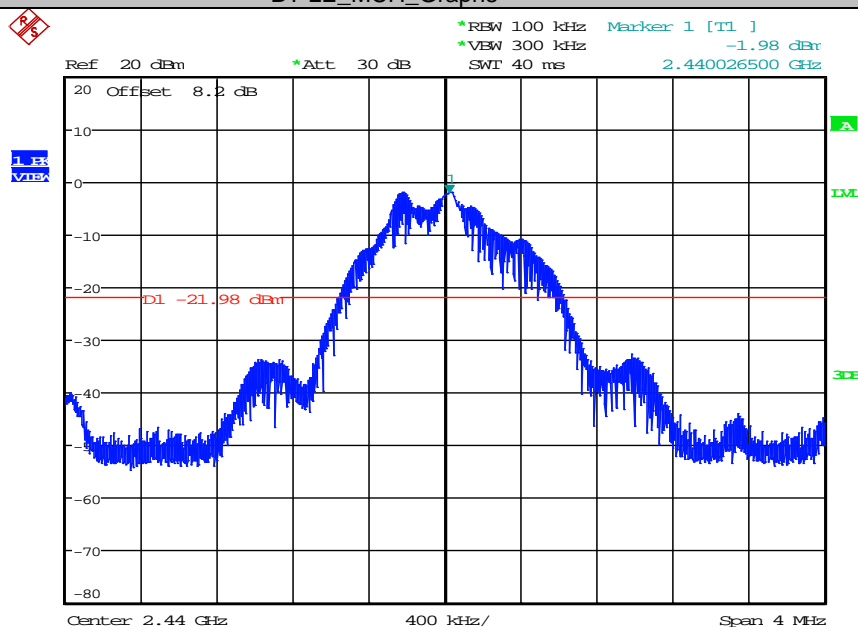
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|  |  |
|--|--|
|  |  |
|--|--|

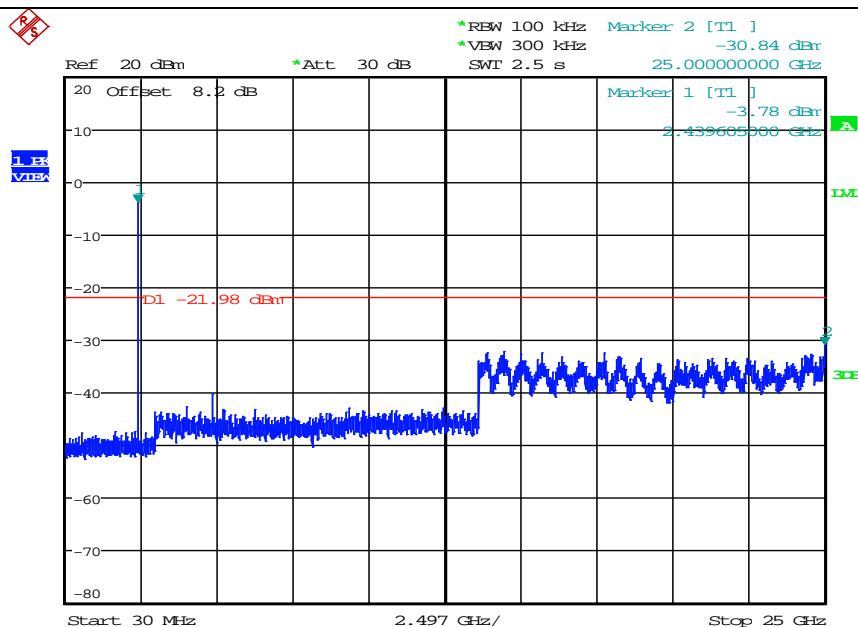
## BT LE\_MCH\_Graphs

Pref/BT LE/MCH



Date: 29.AUG.2019 18:36:25

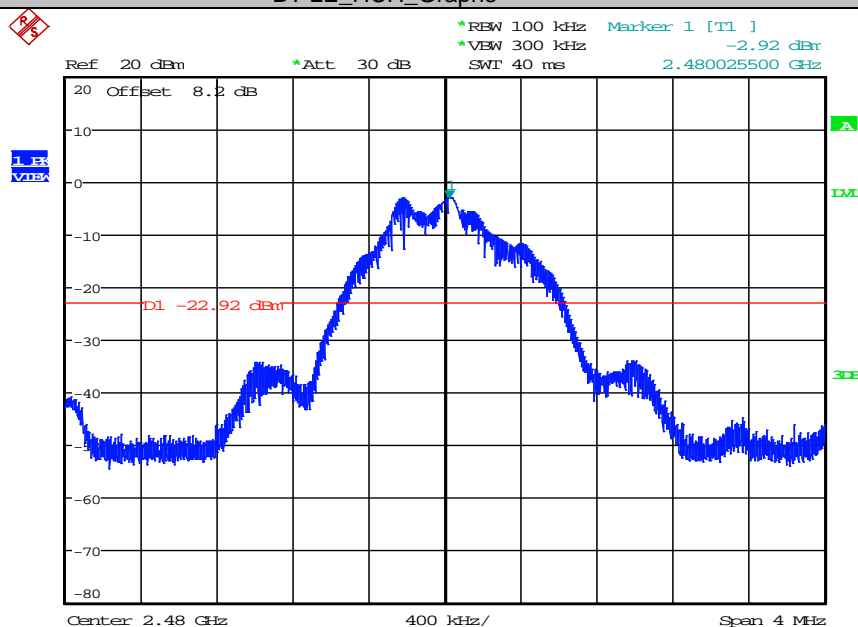
Puw/BT LE/MCH



Date: 29.AUG.2019 18:36:56

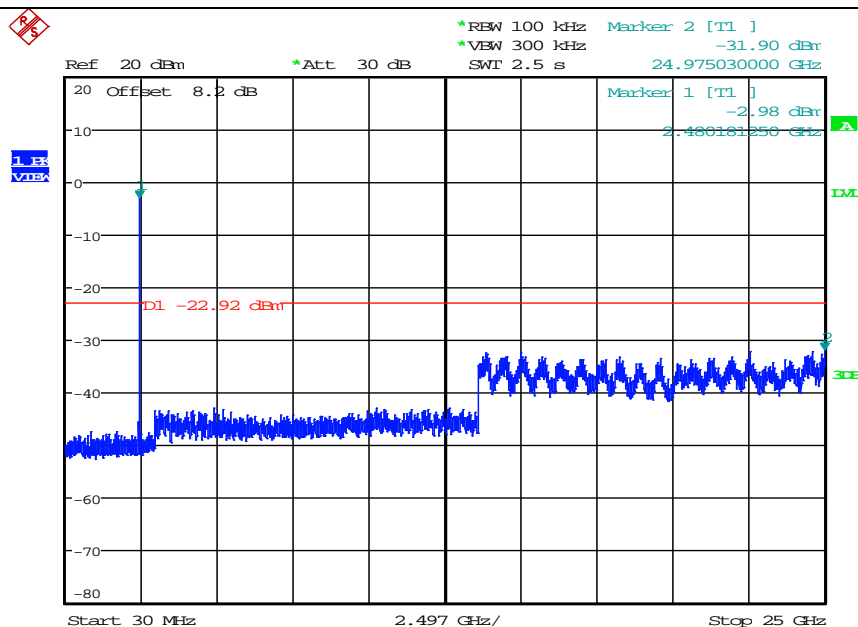
## BT LE\_HCH\_Graphs

Pref/BT LE/HCH



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Puw/BT LE/HCH



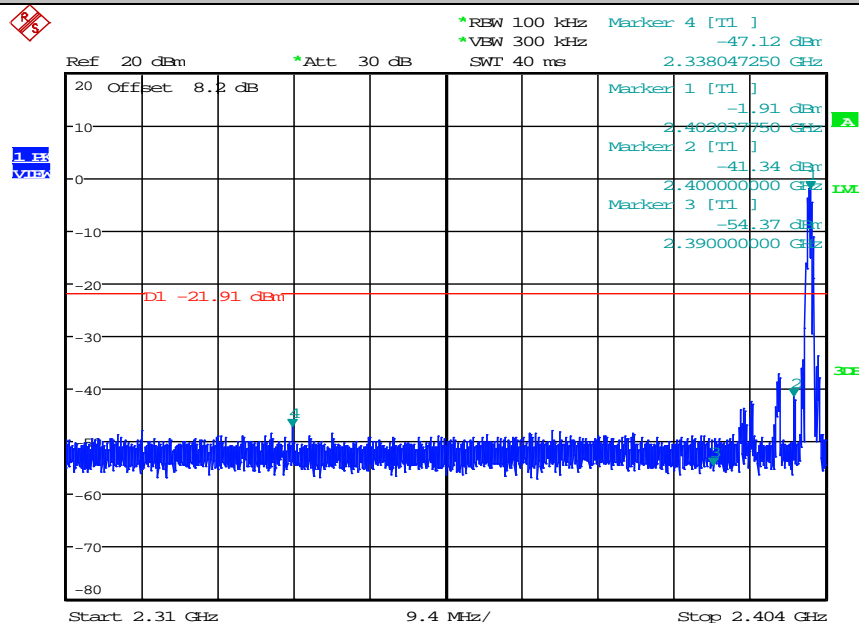
Date: 29.AUG.2019 18:39:17

## B.6 Band-edge for RF Conducted Emissions

| Mode  | Channel | Carrier Power[dBm] | Max.Spurious Level [dBm] | Limit [dBm] | Verdict |
|-------|---------|--------------------|--------------------------|-------------|---------|
| BT LE | LCH     | -1.910             | -47.121                  | -21.91      | PASS    |
| BT LE | HCH     | -2.940             | -44.177                  | -22.94      | PASS    |

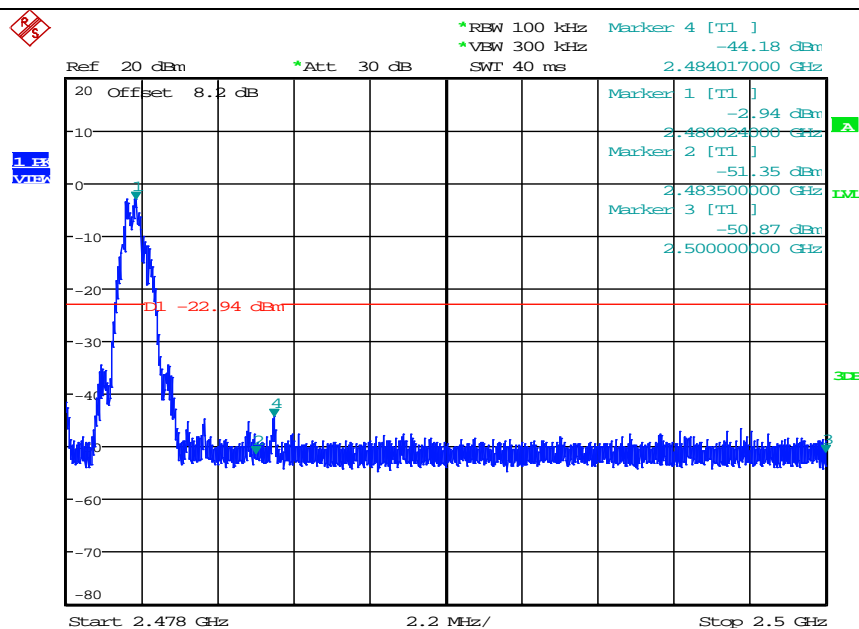
Test Graphs

LCH



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HCH

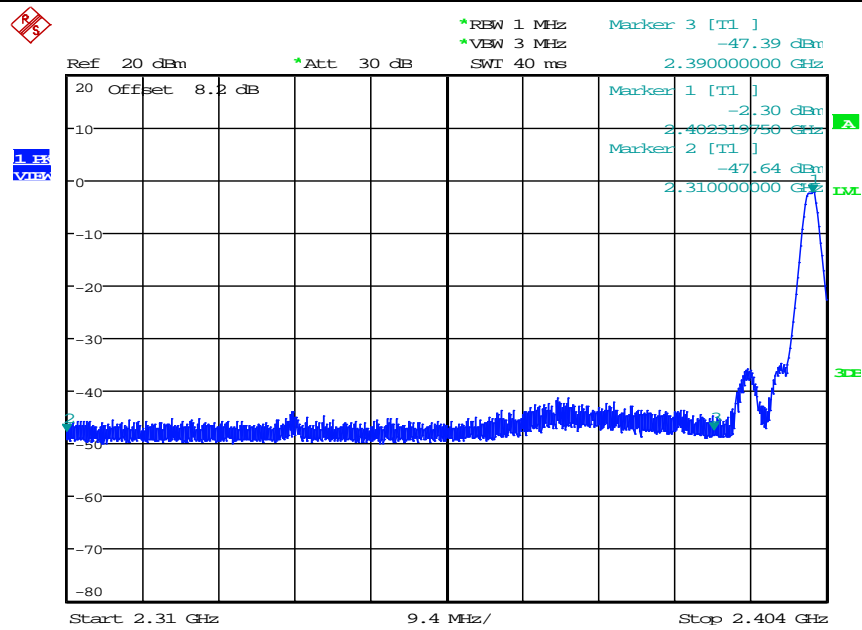


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**B.7 Restrict-band band-edge measurements**

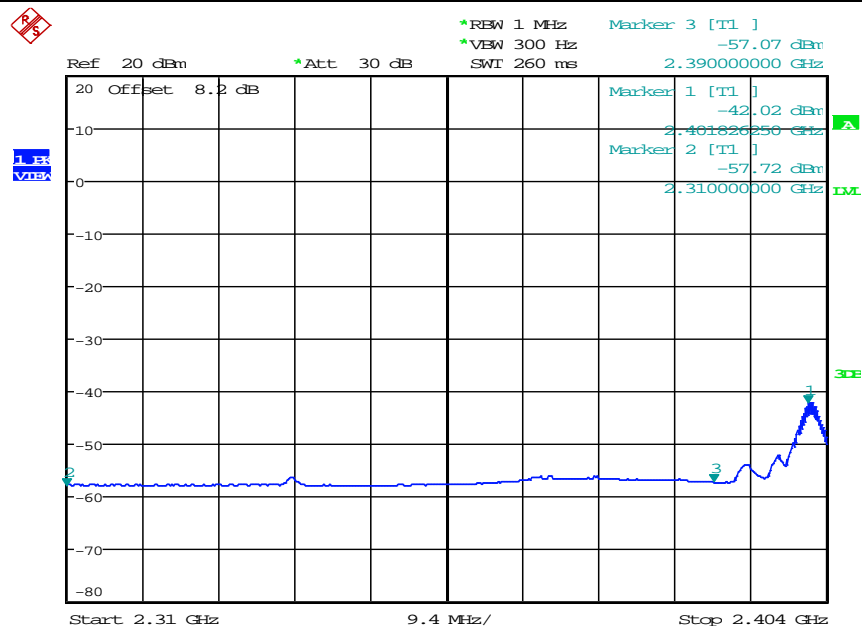
| Test Mode | Test Channel | Ant  | Freq.  | Power [dBm] | Gain | Ground Factor | E [dBuV/m] | Detector | Limit [dBuV/m] | Verdi |
|-----------|--------------|------|--------|-------------|------|---------------|------------|----------|----------------|-------|
| BT LE     | 2402         | Ant1 | 2310.0 | -47.64      | 2.0  | 0             | 48.62      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2310.0 | -57.72      | 2.0  | 0             | 38.54      | AV       | 54             | PASS  |
|           |              | Ant1 | 2390.0 | -47.39      | 2.0  | 0             | 48.87      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2390.0 | -57.07      | 2.0  | 0             | 39.19      | AV       | 54             | PASS  |
|           | 2480         | Ant1 | 2483.5 | -39.61      | 2.0  | 0             | 56.65      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2483.5 | -54.90      | 2.0  | 0             | 41.36      | AV       | 54             | PASS  |
|           |              | Ant1 | 2500.0 | -46.05      | 2.0  | 0             | 50.21      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2500.0 | -57.07      | 2.0  | 0             | 39.19      | AV       | 54             | PASS  |

## Restrict-band band-edge measurements\_BT LE\_2402\_Ant1\_PEAK



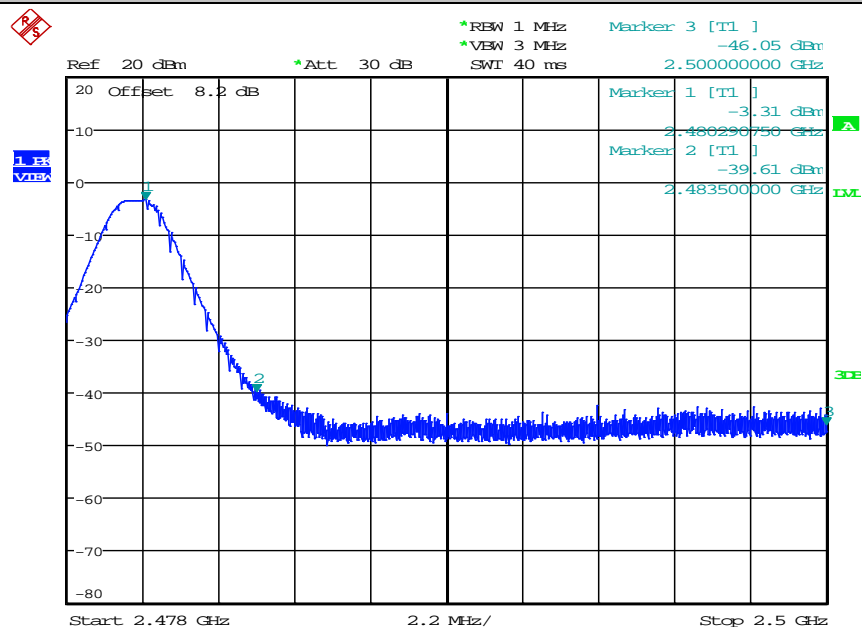
Date: 29.AUG.2019 18:30:07

## Restrict-band band-edge measurements\_BT LE\_2402\_Ant1\_AV



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## Restrict-band band-edge measurements\_BT LE\_2480\_Ant1\_PEAK



Date: 29.AUG.2019 18:39:36

## Restrict-band band-edge measurements\_BT LE\_2480\_Ant1\_AV

