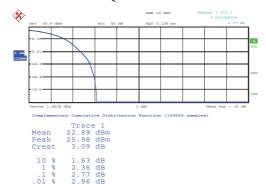
#### Appendix III - Peak To Average Ratio Test Data 6.3

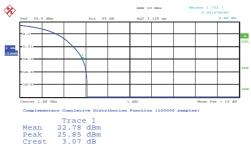
#### 6.3.1 Part 24

# 6.3.1.1 **WCDMA Band 2**

# Channel 9262 - QPSK

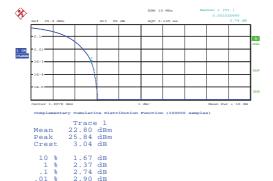


# Channel 9400 - QPSK



Date: 23.MAR.2018 13:51:37

# Channel 9538 - QPSK



Date: 23.MAR.2018 13:52:10

Date: 23.MAR.2018 13:51:55

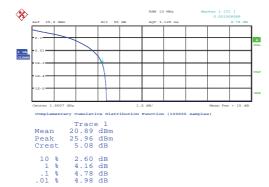
Report Number: 31862395.001 EUT: HSA-15UA-AAUA-AA

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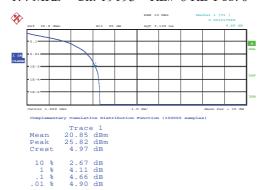
## 6.3.1.2 **LTE Band 2**

#### 1.4 MHz - Ch: 18607 - RB# 6 RB Pos: 0



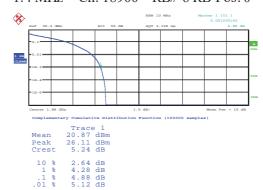
Date: 23.MAR.2018 13:36:31

#### 1.4 MHz - Ch: 19193 - RB# 6 RB Pos: 0



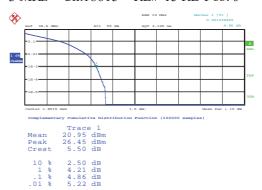
Date: 23.MAR.2018 13:36:56

#### 1.4 MHz - Ch: 18900 - RB# 6 RB Pos: 0



Date: 23.MAR.2018 13:36:45

#### 3 MHz - Ch:18615 - RB# 15 RB Pos: 0



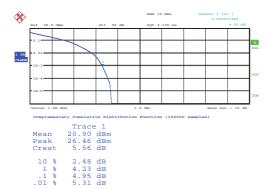
Date: 23.MAR.2018 13:37:27

Report Number: 31862395.001 EUT: HSA-15UA-AAUA-AA

Issue Date: July 9, 2018

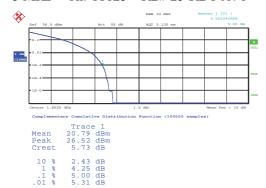
LTUV Rheinland 1279 Quarry Lane, Ste. A, Pleasanton, CA 95466 Tel: (925) 249-9123, Fax: (925) 249-9124

## 3 MHz - Ch: 18900 - RB# 15 RB Pos: 0



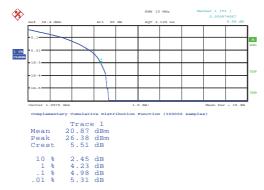
Date: 23.MAR.2018 13:37:41

#### 5 MHz - Ch: 18625 - RB# 25 RB Pos: 0



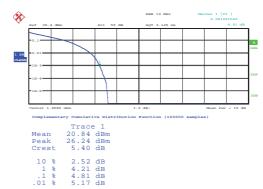
Date: 23.MAR.2018 13:38:20

#### 5 MHz - Ch: 19175 - RB# 25 RB Pos: 0



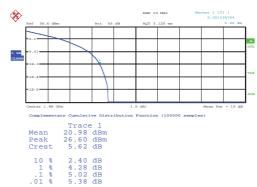
Date: 23.MAR.2018 13:38:44

#### 3 MHz - Ch: 19185 - RB# 15 RB Pos: 0



Date: 23.MAR.2018 13:37:54

#### 5 MHz – Ch: 18900 – RB# 25 RB Pos: 0



Date: 23.MAR.2018 13:38:33

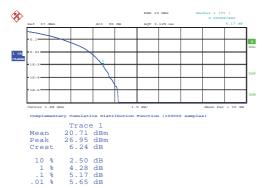
#### 10 MHz - Ch: 18650 - RB# 50 RB Pos: 0



Date: 23.MAR.2018 13:39:35

# Larry Lane, Ste. A, Pleasanton, CA 95466 Tel: (925) 249-9123, Fax: (925) 249-9124

## 10 MHz - Ch: 18900 - RB# 50 RB Pos: 0



Date: 23.MAR.2018 13:39:45

#### 15 MHz - Ch: 18675 - RB# 75 RB Pos: 0



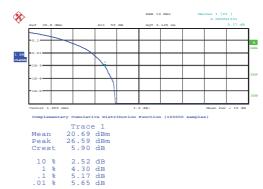
Date: 23.MAR.2018 13:40:27

#### 15 MHz - Ch: 19125 - RB# 75 RB Pos: 0



Date: 23.MAR.2018 13:41:04

#### 10 MHz - Ch: 19150 - RB# 50 RB Pos: 0



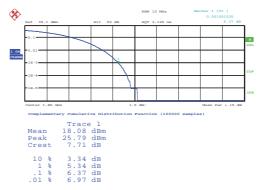
Date: 23.MAR.2018 13:40:04

#### 15 MHz – Ch: 18900 – RB# 75 RB Pos: 0



Date: 23.MAR.2018 13:40:46

#### 20 MHz - Ch: 18700 - RB# 100 RB Pos: 0

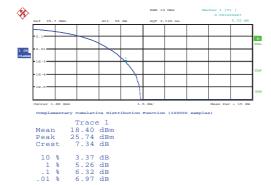


Date: 23.MAR.2018 13:41:26

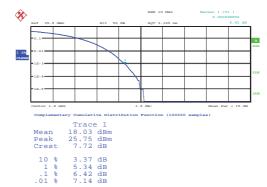
Land TUV Rheinland 1279 Quarry Lane, Ste. A. F

1279 Quarry Lane, Ste. A, Pleasanton, CA 95466 Tel: (925) 249-9123, Fax: (925) 249-9124

# 20 MHz - Ch: 18900 - RB# 100 RB Pos: 0



20 MHz - Ch: 19100 - RB# 100 RB Pos: 0



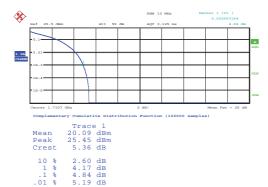
Date: 23.MAR.2018 13:41:35 Date: 23.MAR.2018 13:41:48

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#### 6.3.2 **Part 27**

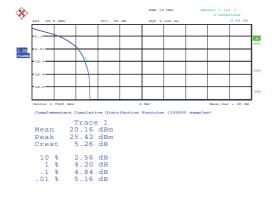
## 6.3.2.1 **LTE Band 4**

#### 1.4 MHz - Ch: 19957 - RB# 6 RB Pos: 0



Date: 23.MAR.2018 13:46:11

#### 1.4 MHz - Ch: 20393 - RB# 6 RB Pos: 0



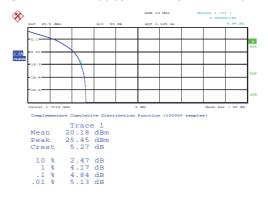
Date: 23.MAR.2018 13:46:46

#### 1.4 MHz - Ch: 20175 - RB# 6 RB Pos: 0



Date: 23.MAR.2018 13:46:2

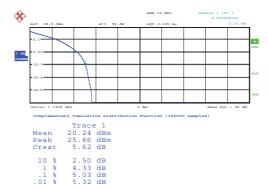
## 3 MHz - Ch: 19965 - RB# 15 RB Pos: 0



Date: 23.MAR.2018 13:47:01

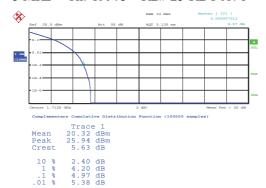
Larry Lane, Ste. A, Pleasanton, CA 95466 Tel: (925) 249-9123, Fax: (925) 249-9124

## 3 MHz - Ch: 20175 - RB# 15 RB Pos: 0



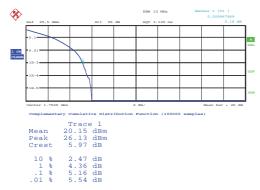
Date: 23.MAR.2018 13:47:13

#### 5 MHz - Ch: 19975 - RB# 25 RB Pos: 0



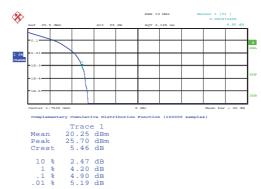
Date: 23.MAR.2018 13:47:35

#### 5 MHz - Ch: 20375 - RB# 25 RB Pos: 0



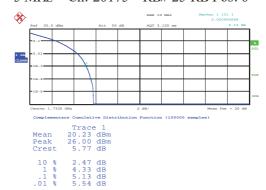
Date: 23.MAR.2018 13:47:55

#### 3 MHz - Ch: 20385 - RB# 15 RB Pos: 0



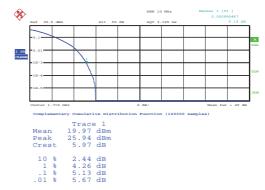
Date: 23.MAR.2018 13:47:23

#### 5 MHz - Ch: 20175 - RB# 25 RB Pos: 0



Date: 23.MAR.2018 13:47:44

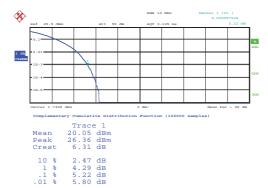
#### 10 MHz - Ch: 20000 - RB# 50 RB Pos: 0



Date: 23.MAR.2018 13:48:08

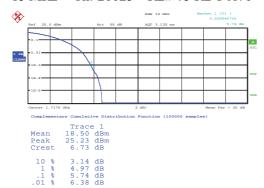
# Larry Lane, Ste. A, Pleasanton, CA 95466 Tel: (925) 249-9123, Fax: (925) 249-9124

## 10 MHz - Ch: 20175 - RB# 50 RB Pos: 0



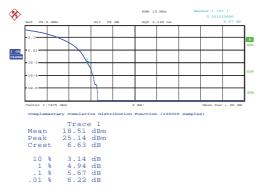
Date: 23.MAR.2018 13:48:19

#### 15 MHz - Ch: 20025 - RB# 75 RB Pos: 0



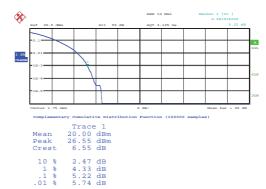
Date: 23.MAR.2018 13:48:43

#### 15 MHz - Ch: 20325 - RB# 75 RB Pos: 0



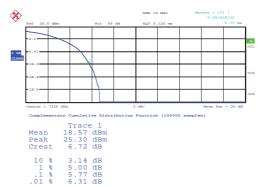
Date: 23.MAR.2018 13:49:08

#### 10 MHz - Ch: 20350 - RB# 50 RB Pos: 0



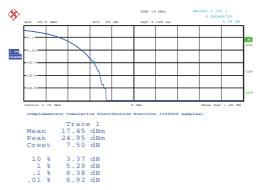
Date: 23.MAR.2018 13:48:30

#### 15 MHz - Ch: 20175 - RB# 75 RB Pos: 0



Date: 23.MAR.2018 13:48:55

#### 20 MHz - Ch: 20050 - RB# 100 RB Pos: 0



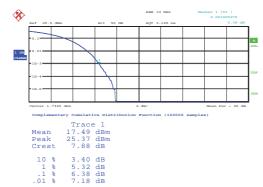
Date: 23.MAR.2018 13:49:23

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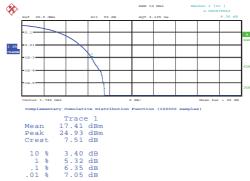
TUV Rheinland

1279 Quarry Lane, Ste. A, Pleasanton, CA 95466 Tel: (925) 249-9123, Fax: (925) 249-9124

# 20 MHz - Ch: 20175 - RB# 100 RB Pos: 0



20 MHz - Ch: 20300 - RB# 100 RB Pos: 0



Date: 23.MAR.2018 13:49:34

Date: 23.MAR.2018 13:49:43

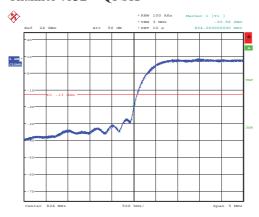
Report Number: 31862395.001 EUT: HSA-15UA-AAUA-AA Issue Date: July 9, 2018 Page 184 of 217

# 6.4 Appendix IV – Bandedge Test Data

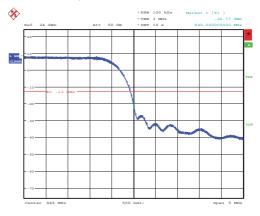
## 6.4.1 Part 22

# 6.4.1.1 **WCDMA Band 5**

# Channel 4132 - QPSK



# Channel - QPSK

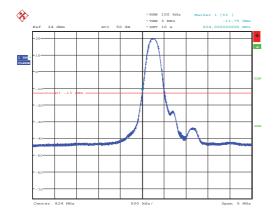


Date: 27.MAR.2018 17:44:36

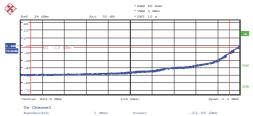
Date: 27.MAR.2018 17:45:01

## 6.4.1.2 **LTE Band 5**

## 1.4 MHz - Ch: 20407 - RB# 1 RB Pos: 0

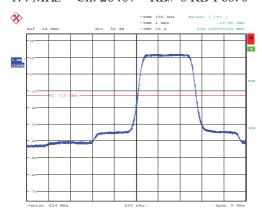


# Integration 1MHz outside authorized band



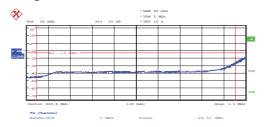
Date: 3.APR.2018 11:39:53

## 1.4 MHz - Ch: 20407 - RB# 6 RB Pos: 0



Date: 3.APR.2018 11:40:46

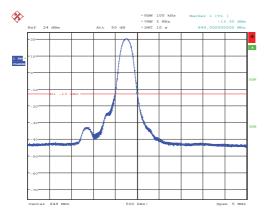
# Integration 1MHz outside authorized band



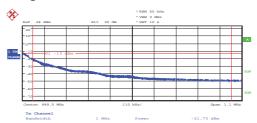
Date: 3.APR.2018 11:41:15

Date: 3.APR.2018 11:40:22

# 1.4 MHz - Ch: 20643 - RB# 1 RB Pos: 5

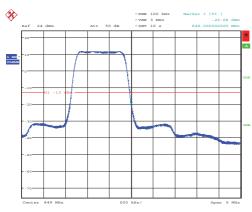


Integration 1MHz outside the authorized band



Date: 3.APR.2018 11:41:39

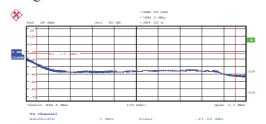
#### 1.4 MHz - Ch: 20643 - RB# 6 RB Pos: 0



Integration 1MHz outside authorized band

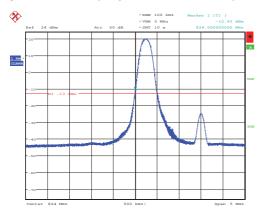
Date: 3.APR.2018 11:42:06

Date: 3.APR.2018 11:42:57

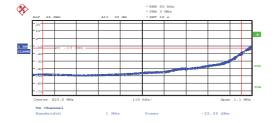


Date: 3.APR.2018 11:42:30

#### 3 MHz - Ch: 20415 - RB# 1 RB Pos: 0



Integration 1 MHz outside the authorized band

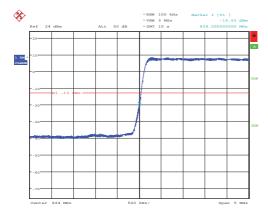


Date: 3.APR.2018 11:43:50

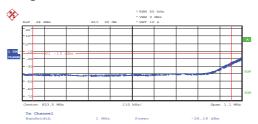
Report Number: 31862395.001 EUT: HSA-15UA-AAUA-AA Issue Date: July 9, 2018

Date: 3.APR.2018 11:43:21

## 3 MHz - Ch: 20415 - RB# 15 RB Pos: 0

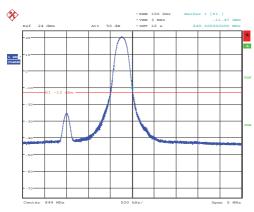


# Integration 1 MHz outside the authorized band



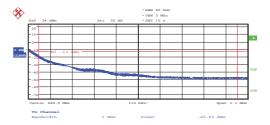
Date: 3.APR.2018 11:44:14

#### 3 MHz - Ch: 20635 - RB# 1 RB Pos: 14



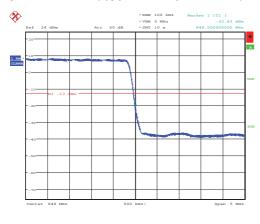
Date: 3.APR.2018 11:44:43

## Integration 1 MHz outside the authorized band

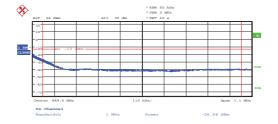


Date: 3.APR.2018 11:45:07

## 3 MHz - Ch: 20635 - RB# 15 RB Pos: 0



Integration 1 MHz outside the authorized band



Date: 3.APR.2018 11:46:25

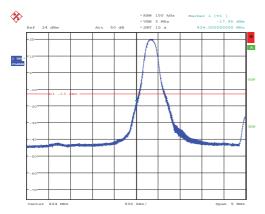
Date: 3.APR.2018 11:45:34

Report Number: 31862395.001 EUT: HSA-15UA-AAUA-AA Issue Date: July 9, 2018

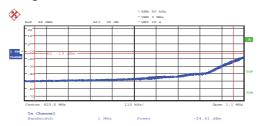
Date: 3.APR.2018 11:45:59

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# 5 MHz - Ch: 20425 - RB# 1 RB Pos: 0

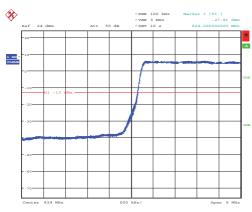


# Integration 1 MHz outside the authorized band



Date: 3.APR.2018 11:46:50

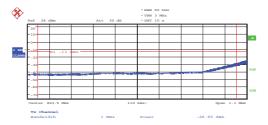
## 5 MHz - Ch: 20425 - RB# 25 RB Pos: 0



Date: 3.APR.2018 11:47:18

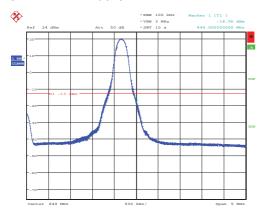
Date: 3.APR.2018 11:48:12

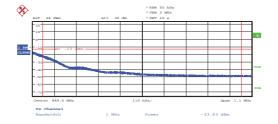
## Integration 1 MHz outside the authorized band



Date: 3.APR.2018 11:47:43

## 5 MHz - Ch: 20625 - RB# 1 RB Pos: 24





Integration 1 MHz outside the authorized band

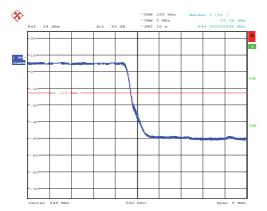
Date: 3.APR.2018 11:49:03

Report Number: 31862395.001 EUT: HSA-15UA-AAUA-AA Issue Date: July 9, 2018

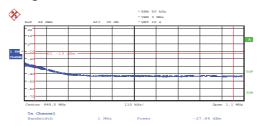
Date: 3.APR.2018 11:48:36

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## 5 MHz - Ch: 20625 - RB# 25 RB Pos: 0

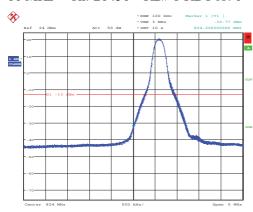


# Integration 1 MHz outside the authorized band



Date: 3.APR.2018 11:49:27

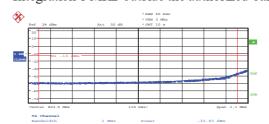
#### 10 MHz - Ch: 20450 - RB# 1 RB Pos: 0



Integration 1 MHz outside the authorized band

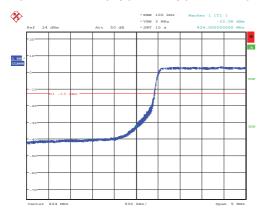
Date: 3.APR.2018 11:49:54

Date: 3.APR.2018 11:50:48

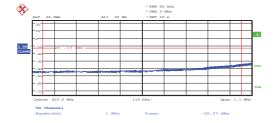


Date: 3.APR.2018 11:50:19

## 10 MHz - Ch: 20450 - RB# 50 RB Pos: 0



Integration 1 MHz outside the authorized band



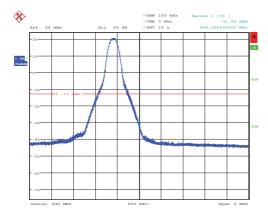
Date: 3.APR.2018 11:51:43

Report Number: 31862395.001 EUT: HSA-15UA-AAUA-AA Issue Date: July 9, 2018

Date: 3.APR.2018 11:51:13

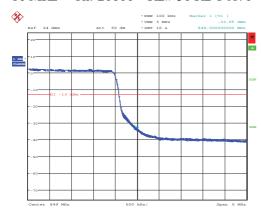
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# 10 MHz - Ch: 20600 - RB# 1 RB Pos: 49



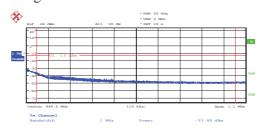
Date: 3.APR.2018 11:52:08

## 10 MHz - Ch: 20600 - RB# 50 RB Pos: 0



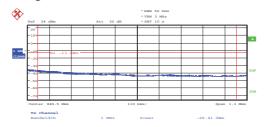
Date: 3.APR.2018 11:53:01

# Integration 1 MHz outside the authorized band



Date: 3.APR.2018 11:52:36

## Integration 1 MHz outside the authorized band

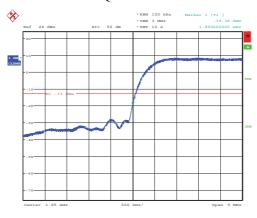


Date: 3.APR.2018 11:53:29

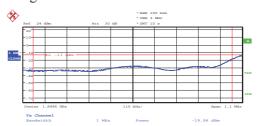
## 6.4.2 Part 24

## 6.4.2.1 **WCDMA Band 2**

# Channel 9262 - QPSK

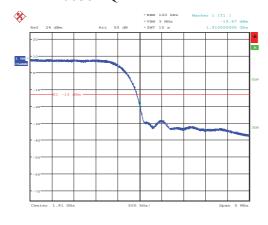


# Integration 1 MHz outside the authorized band



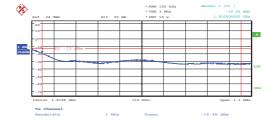
Date: 27.MAR.2018 18:39:21

## Channel 9538 - QPSK



Date: 27.MAR.2018 18:40:39

# Integration 1 MHz outside the authorized band

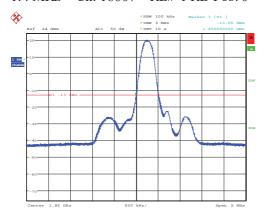


Date: 27.MAR.2018 18:41:06

Date: 27.MAR.2018 18:40:07

## 6.4.2.2 **LTE Band 2**

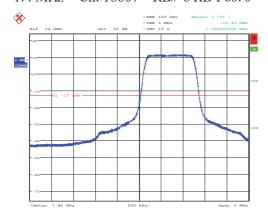
# 1.4 MHz - Ch: 18607 - RB# 1 RB Pos: 0



Integration 1 MHz outside the authorized band

Date: 30.MAR.2018 08:31:15

## 1.4 MHz - Ch: 18607 - RB# 6 RB Pos: 0



\* RIME 100 NIME
\*\*VINES 3 NIME
\*\*SUFF 13 #

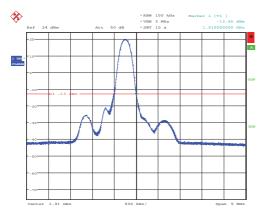
\*\*SUFF 13 \*

Date: 30.MAR.2018 08:32:36

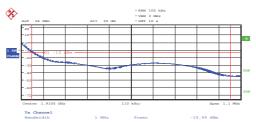
Date: 30.MAR.2018 08:31:44

Date: 30.MAR.2018 08:32:08

# 1.4 MHz - Ch: 19193 - RB# 1 RB Pos: 5

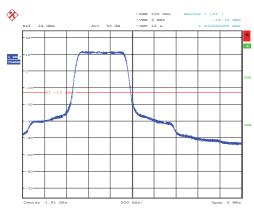


Integration 1 MHz outside the authorized band



Date: 30.MAR.2018 08:33:01

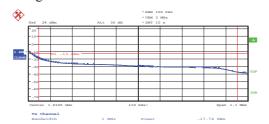
## 1.4 MHz - Ch: 19193 - RB# 6 RB Pos: 0



Integration 1 MHz outside the authorized band

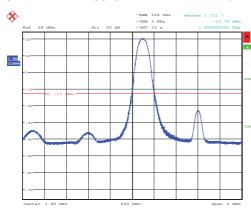
Date: 30.MAR.2018 08:33:27

Date: 30.MAR.2018 08:34:18

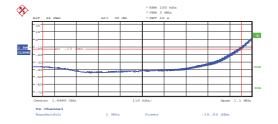


Date: 30.MAR.2018 08:33:52

## 3 MHz - Ch: 18615 - RB# 1 RB Pos: 0



Integration 1 MHz outside the authorized band



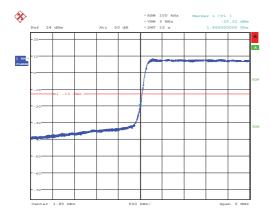
Date: 30.MAR.2018 08:35:11

Report Number: 31862395.001 EUT: HSA-15UA-AAUA-AA Issue Date: July 9, 2018

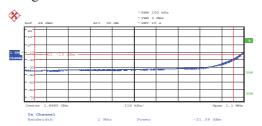
Date: 30.MAR.2018 08:34:42

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## 3 MHz - Ch: 18615 - RB# 15 RB Pos: 0

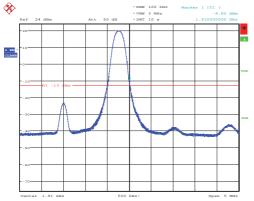


# Integration 1 MHz outside the authorized band



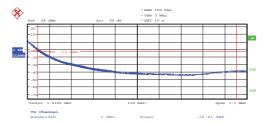
Date: 30.MAR.2018 08:35:35

# 3 MHz - Ch: 19185 - RB# 1 RB Pos: 14



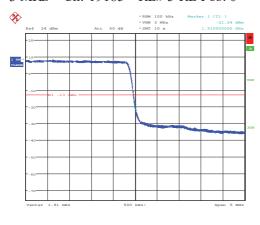
Date: 30.MAR.2018 08:36:04

## Integration 1 MHz outside the authorized band



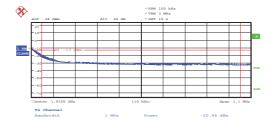
Date: 30.MAR.2018 08:36:28

## 3 MHz - Ch: 19185 - RB# 5 RB Pos: 0



Date: 30.MAR.2018 08:36:55

## Integration 1 MHz outside the authorized band



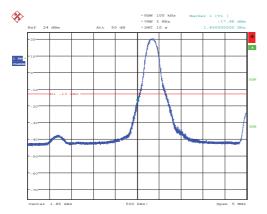
Date: 30.MAR.2018 08:37:45

Report Number: 31862395.001 EUT: HSA-15UA-AAUA-AA Issue Date: July 9, 2018

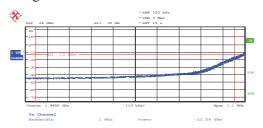
Date: 30.MAR.2018 08:37:19

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# 5 MHz - Ch: 18625 - RB# 1 RB Pos: 0

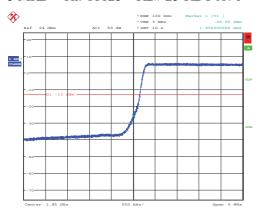


# Integration 1 MHz outside the authorized band



Date: 30.MAR.2018 08:38:10

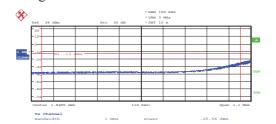
# 5 MHz - Ch: 18625 - RB# 25 RB Pos: 0



Integration 1 MHz outside the authorized band

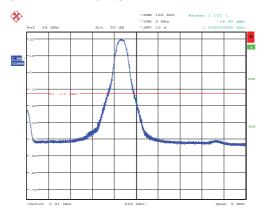
Date: 30.MAR.2018 08:38:38

Date: 30.MAR.2018 08:39:31

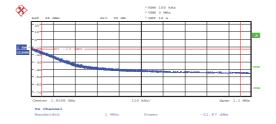


Date: 30.MAR.2018 08:39:03

## 5 MHz - Ch: 19175 - RB# 1 RB Pos: 24



Integration 1 MHz outside the authorized band



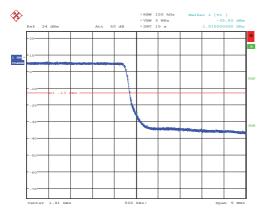
Date: 30.MAR.2018 08:40:22

Report Number: 31862395.001 EUT: HSA-15UA-AAUA-AA Issue Date: July 9, 2018

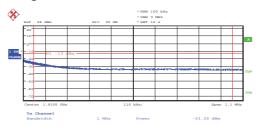
Date: 30.MAR.2018 08:39:55

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## 5 MHz - Ch: 19175 - RB# 25 RB Pos: 0

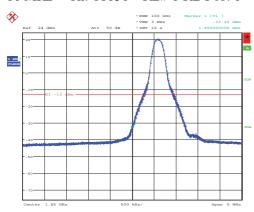


# Integration 1 MHz outside the authorized band



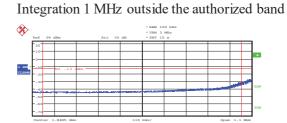
Date: 30.MAR.2018 08:40:46

#### 10 MHz - Ch: 18650 - RB# 1 RB Pos: 0



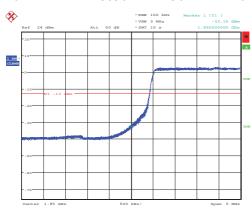
Date: 30.MAR.2018 08:41:13

Date: 30.MAR.2018 08:42:06

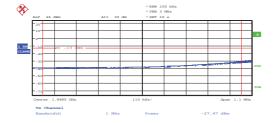


Date: 30.MAR.2018 08:41:37

## 10 MHz - Ch: 18650 - RB# 50 RB Pos: 0



Integration 1 MHz outside the authorized band



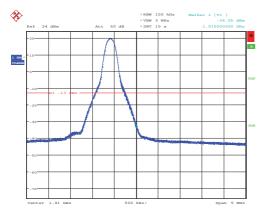
Date: 30.MAR.2018 08:42:59

Report Number: 31862395.001 EUT: HSA-15UA-AAUA-AA Issue Date: July 9, 2018

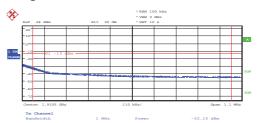
Date: 30.MAR.2018 08:42:30

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# 10 MHz - Ch: 19150 - RB# 1 RB Pos: 49

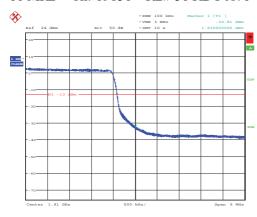


# Integration 1 MHz outside the authorized band



Date: 30.MAR.2018 08:43:23

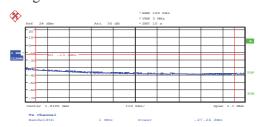
## 10 MHz - Ch: 19150 - RB# 50 RB Pos: 0



## Integration 1 MHz outside the authorized band

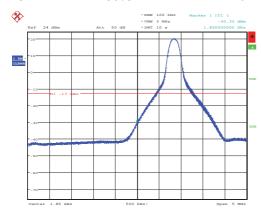
Date: 30.MAR.2018 08:43:49

Date: 30.MAR.2018 08:44:40

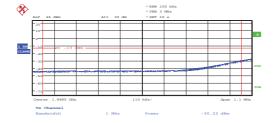


Date: 30.MAR.2018 08:44:14

## 15 MHz - Ch: 18675 - RB# 1 RB Pos: 0



Integration 1 MHz outside the authorized band

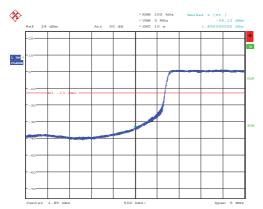


Date: 30.MAR.2018 08:45:33

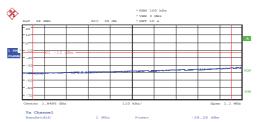
Report Number: 31862395.001 EUT: HSA-15UA-AAUA-AA Issue Date: July 9, 2018

Date: 30.MAR.2018 08:45:04

# 15 MHz - Ch: 18675 - RB# 75 RB Pos: 0

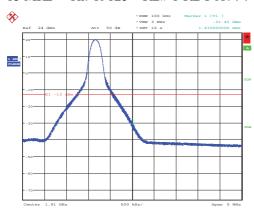


Integration 1 MHz outside the authorized band



Date: 30.MAR.2018 08:45:57

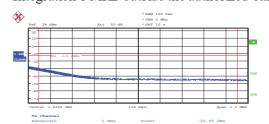
## 15 MHz - Ch: 19125 - RB# 1 RB Pos: 74



Integration 1 MHz outside the authorized band

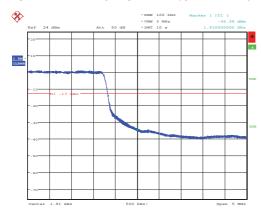
Date: 30.MAR.2018 08:46:26

Date: 30.MAR.2018 08:47:17

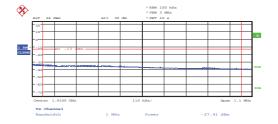


Date: 30.MAR.2018 08:46:50

## 15 MHz - Ch: 19125 - RB# 75 RB Pos: 0



Integration 1 MHz outside the authorized band

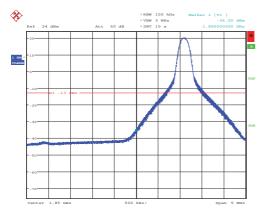


Date: 30.MAR.2018 08:48:07

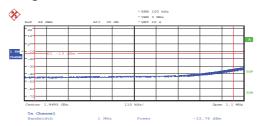
Report Number: 31862395.001 EUT: HSA-15UA-AAUA-AA Issue Date: July 9, 2018

Date: 30.MAR.2018 08:47:41

# 20 MHz - Ch: 18700 - RB# 1 RB Pos: 0

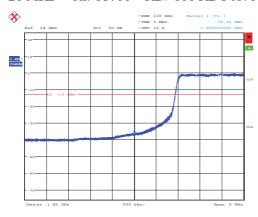


# Integration 1 MHz outside the authorized band



Date: 30.MAR.2018 08:48:32

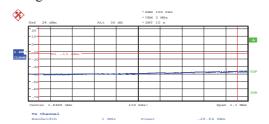
## 20 MHz - Ch: 18700 - RB# 100 RB Pos: 0



Integration 1 MHz outside the authorized band

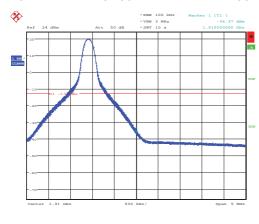
Date: 30.MAR.2018 08:49:00

Date: 30.MAR.2018 08:49:53

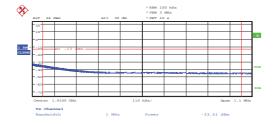


Date: 30.MAR.2018 08:49:25

## 20 MHz - Ch: 19100 - RB# 1 RB Pos: 99



Integration 1 MHz outside the authorized band



Date: 30.MAR.2018 09:00:53

Report Number: 31862395.001 EUT: HSA-15UA-AAUA-AA Issue Date: July 9, 2018

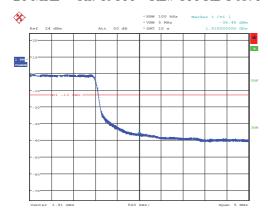
Date: 30.MAR.2018 09:00:27

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△TUV Rheinland 1279 Quarry Lane, Ste. A, Pleasal

1279 Quarry Lane, Ste. A, Pleasanton, CA 95466 Tel: (925) 249-9123, Fax: (925) 249-9124

# 20 MHz - Ch: 19100 - RB# 100 RB Pos: 0



# Integration 1 MHz outside the authorized band



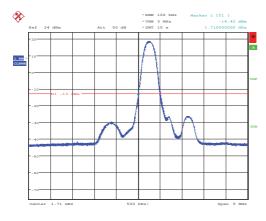
Date: 30.MAR.2018 09:01:18

Date: 30.MAR.2018 09:01:44

# 6.4.3 **Part 27**

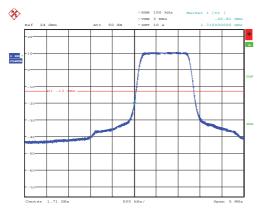
# 6.4.3.1 **LTE Band 4**

# 1.4 MHz - Ch: 19957 - RB# 1 RB Pos: 0



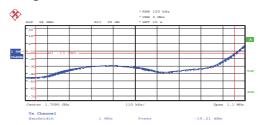
Date: 30.MAR.2018 11:15:49

# 1.4 MHz - Ch: 19957 - RB# 6 RB Pos: 0



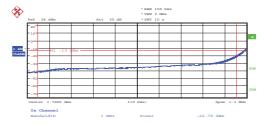
Date: 30.MAR.2018 11:16:41

# Integration 1 MHz outside the authorized band



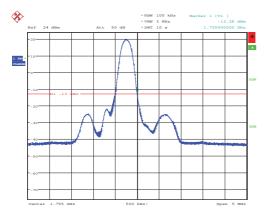
Date: 30.MAR.2018 11:16:17

# Integration 1 MHz outside the authorized band

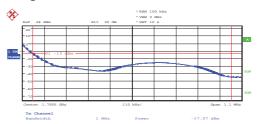


Date: 30.MAR.2018 11:17:10

# 1.4 MHz - Ch: 20393 - RB# 1 RB Pos: 5

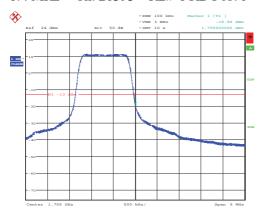


# Integration 1 MHz outside the authorized band



Date: 30.MAR.2018 11:17:34

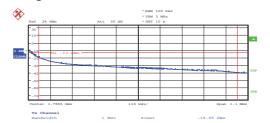
# 1.4 MHz - Ch: 20393 - RB# 6 RB Pos: 0



Integration 1 MHz outside the authorized band

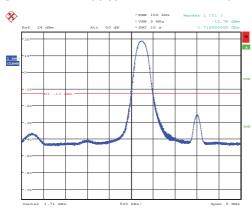
Date: 30.MAR.2018 11:18:01

Date: 30.MAR.2018 11:18:52

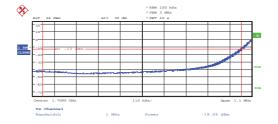


Date: 30.MAR.2018 11:18:25

## 3 MHz - Ch: 19965 - RB# 1 RB Pos: 0



Integration 1 MHz outside the authorized band

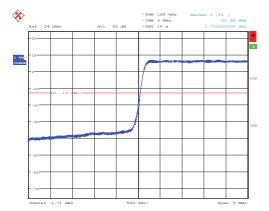


Date: 30.MAR.2018 11:19:45

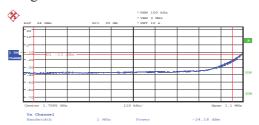
Report Number: 31862395.001 EUT: HSA-15UA-AAUA-AA Issue Date: July 9, 2018

Date: 30.MAR.2018 11:19:16

## 3 MHz - Ch: 19965 - RB# 15 RB Pos: 0

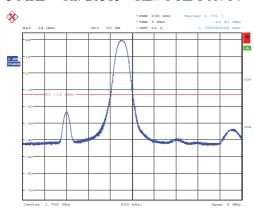


# Integration 1 MHz outside the authorized band



Date: 30.MAR.2018 11:20:09

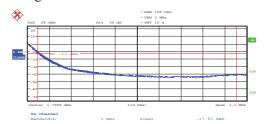
## 3 MHz - Ch: 20385 - RB# 1 RB Pos: 14



Integration 1 MHz outside the authorized band

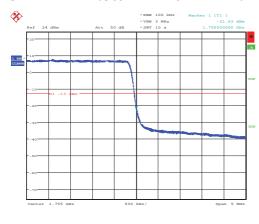
Date: 30.MAR.2018 11:20:38

Date: 30.MAR.2018 11:21:28

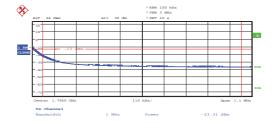


Date: 30.MAR.2018 11:21:02

## 3 MHz - Ch: 20385 - RB# 15 RB Pos: 0



Integration 1 MHz outside the authorized band

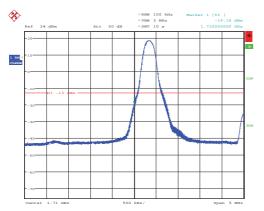


Date: 30.MAR.2018 11:22:19

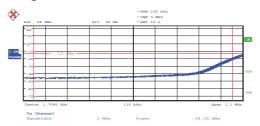
Report Number: 31862395.001 EUT: HSA-15UA-AAUA-AA Issue Date: July 9, 2018

Date: 30.MAR.2018 11:21:53

## 5 MHz - Ch: 19975 - RB# 1 RB Pos: 0

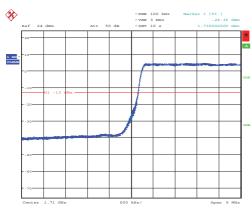


# Integration 1 MHz outside the authorized band



Date: 30.MAR.2018 11:22:44

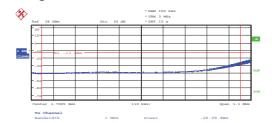
# 5 MHz – Ch: 19975 – RB# 25 RB Pos: 0



Integration 1 MHz outside the authorized band

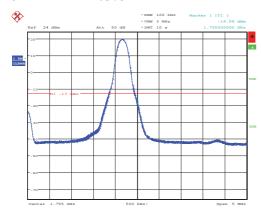
Date: 30.MAR.2018 11:23:12

Date: 30.MAR.2018 11:24:05

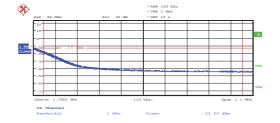


Date: 30.MAR.2018 11:23:37

## 5 MHz - Ch: 20375 - RB# 1 RB Pos: 24



Integration 1 MHz outside the authorized band



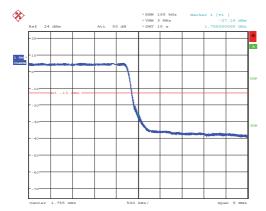
Date: 30.MAR.2018 11:24:56

Report Number: 31862395.001 EUT: HSA-15UA-AAUA-AA Issue Date: July 9, 2018

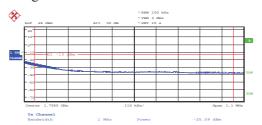
Date: 30.MAR.2018 11:24:29

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## 5 MHz - Ch: 20375 - RB# 25 RB Pos: 0

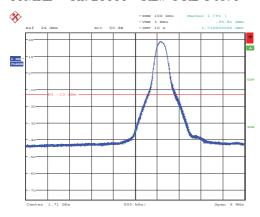


# Integration 1 MHz outside the authorized band



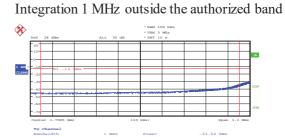
Date: 30.MAR.2018 11:25:21

#### 10MHz - Ch: 20000 - RB# 1 RB Pos: 0



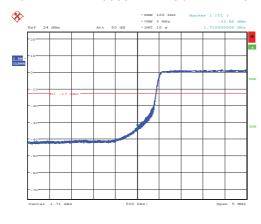
Date: 30.MAR.2018 11:25:47

Date: 30.MAR.2018 11:26:40

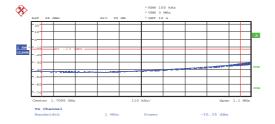


Date: 30.MAR.2018 11:26:12

## 10MHz - Ch: 20000 - RB# 50 RB Pos: 0



Integration 1 MHz outside the authorized band



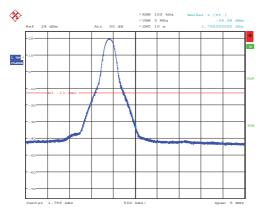
Date: 30.MAR.2018 11:27:33

Report Number: 31862395.001 EUT: HSA-15UA-AAUA-AA Issue Date: July 9, 2018

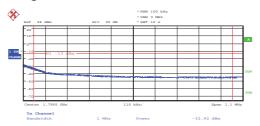
Date: 30.MAR.2018 11:27:05

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# 10MHz - Ch: 20350 - RB# 1 RB Pos: 49

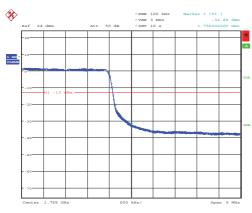


Integration 1 MHz outside the authorized band



Date: 30.MAR.2018 11:27:58

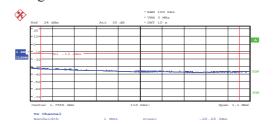
#### 10MHz - Ch: 20350 - RB# 50 RB Pos: 0



Integration 1 MHz outside the authorized band

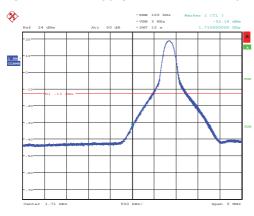
Date: 30.MAR.2018 11:28:24

Date: 30.MAR.2018 11:29:15

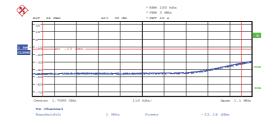


Date: 30.MAR.2018 11:28:48

## 15 MHz - Ch: 20025 - RB# 1 RB Pos: 0



Integration 1 MHz outside the authorized band

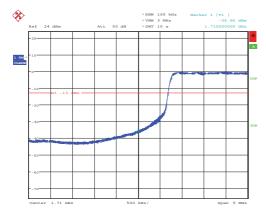


Date: 30.MAR.2018 11:30:08

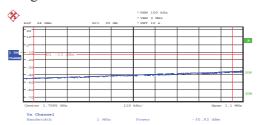
Report Number: 31862395.001 EUT: HSA-15UA-AAUA-AA Issue Date: July 9, 2018

Date: 30.MAR.2018 11:29:39

# 15 MHz - Ch: 20025 - RB# 75 RB Pos: 0

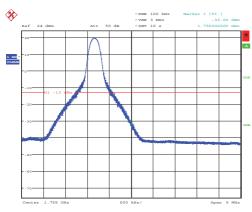


# Integration 1 MHz outside the authorized band



Date: 30.MAR.2018 11:30:32

## 15 MHz - Ch: 20325 - RB# 1 RB Pos: 74



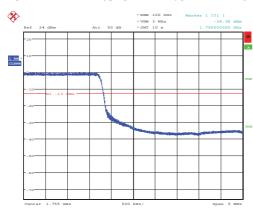
Date: 30.MAR.2018 11:31:01

Date: 30.MAR.2018 11:31:52

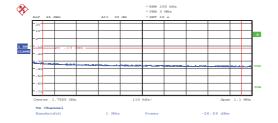


Date: 30.MAR.2018 11:31:25

## 15 MHz - Ch: 20325 - RB# 75 RB Pos: 0



Integration 1 MHz outside the authorized band



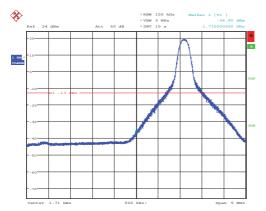
Date: 30.MAR.2018 11:32:43

Report Number: 31862395.001 EUT: HSA-15UA-AAUA-AA Issue Date: July 9, 2018

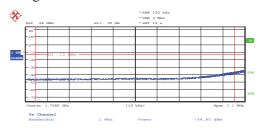
Date: 30.MAR.2018 11:32:16

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# 20 MHz - Ch: 20050 - RB# 1 RB Pos: 0

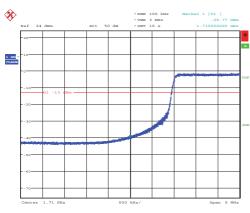


# Integration 1 MHz outside the authorized band



Date: 30.MAR.2018 11:33:07

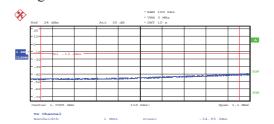
#### 20 MHz - Ch: 20050 - RB# 100 RB Pos: 0



Integration 1 MHz outside the authorized band

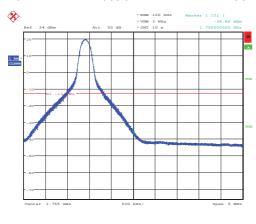
Date: 30.MAR.2018 11:33:35

Date: 30.MAR.2018 11:34:28

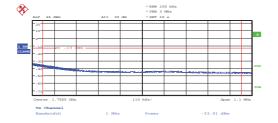


Date: 30.MAR.2018 11:34:00

## 20 MHz - Ch: 20050 - RB# 1 RB Pos: 99



Integration 1 MHz outside the authorized band



Date: 30.MAR.2018 11:35:19

Report Number: 31862395.001 EUT: HSA-15UA-AAUA-AA Issue Date: July 9, 2018

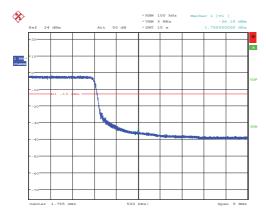
Date: 30.MAR.2018 11:34:53

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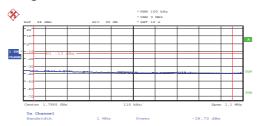
TUV Rheinland

1279 Quarry Lane, Ste. A, Pleasanton, CA 95466 Tel: (925) 249-9123, Fax: (925) 249-9124

# 20 MHz - Ch: 20300 - RB# 100 RB Pos: 0



# Integration 1 MHz outside the authorized band



Date: 30.MAR.2018 11:35:43

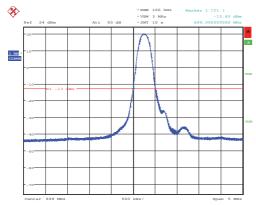
Date: 30.MAR.2018 11:36:10

Report Number: 31862395.001 EUT: HSA-15UA-AAUA-AA Issue Date: July 9, 2018

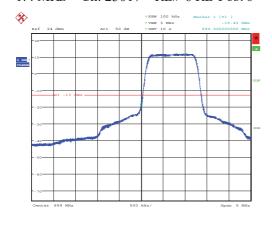
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# 6.4.3.2 **LTE Band 12**

## 1.4 MHz - Ch: 23017 - RB# 1 RB Pos: 0

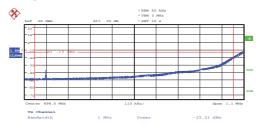


# 1.4 MHz - Ch: 23017 - RB# 6 RB Pos: 0



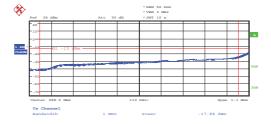
Date: 3.APR.2018 12:24:50 Date: 3.APR.2018 12:25:19

# Integration 1 MHz outside the authorized band



Date: 3.APR.2018 12:24:26

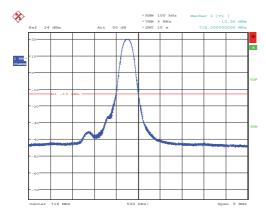
## Integration 1 MHz outside the authorized band



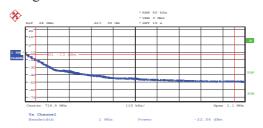
Report Number: 31862395.001 Page 211 of 217

EUT: HSA-15UA-AAUA-AA Issue Date: July 9, 2018

# 1.4 MHz - Ch: 23173 - RB# 1 RB Pos: 5

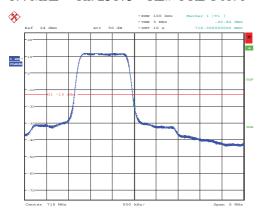


# Integration 1 MHz outside the authorized band



Date: 3.APR.2018 12:25:43

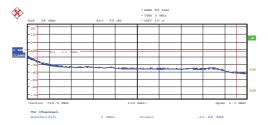
#### 1.4 MHz - Ch: 23173 - RB# 6 RB Pos: 0



Date: 3.APR.2018 12:26:10

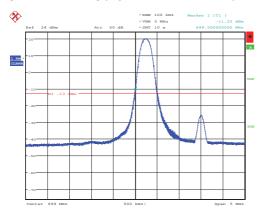
Date: 3.APR.2018 12:27:01

## Integration 1 MHz outside the authorized band

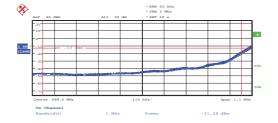


Date: 3.APR.2018 12:26:34

## 3 MHz - Ch: 23025 - RB# 1 RB Pos: 0



Integration 1 MHz outside the authorized band



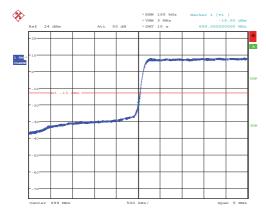
Date: 3.APR.2018 12:27:54

Report Number: 31862395.001 EUT: HSA-15UA-AAUA-AA Issue Date: July 9, 2018

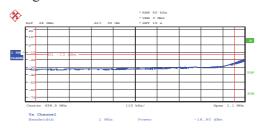
Date: 3.APR.2018 12:27:25

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## 3 MHz - Ch: 23025 - RB# 15 RB Pos: 0

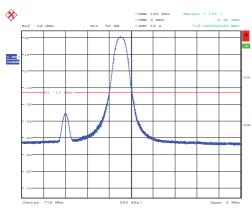


# Integration 1 MHz outside the authorized band



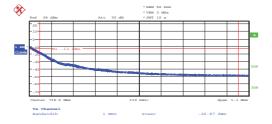
Date: 3.APR.2018 12:28:18

## 3 MHz - Ch: 23165 - RB# 1 RB Pos: 14



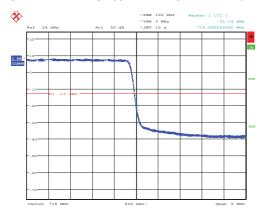
Date: 3.APR.2018 12:28:47

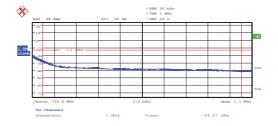
## Integration 1 MHz outside the authorized band



Date: 3.APR.2018 12:29:11

## 3 MHz - Ch: 23165 - RB# 15 RB Pos: 0





Integration 1 MHz outside the authorized band

Date: 3.APR.2018 12:30:29

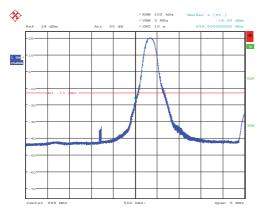
Date: 3.APR.2018 12:29:38

Report Number: 31862395.001 EUT: HSA-15UA-AAUA-AA Issue Date: July 9, 2018

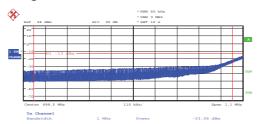
Date: 3.APR.2018 12:30:03

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# 5 MHz - Ch: 23035 - RB# 1 RB Pos: 0

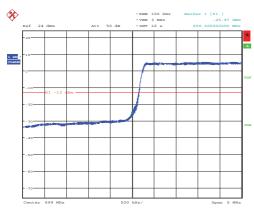


# Integration 1 MHz outside the authorized band



Date: 3.APR.2018 12:30:54

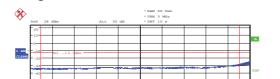
## 5 MHz - Ch: 23035 - RB# 25 RB Pos: 0



Integration 1 MHz outside the authorized band

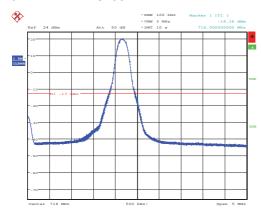
Date: 3.APR.2018 12:31:22

Date: 3.APR.2018 12:32:15

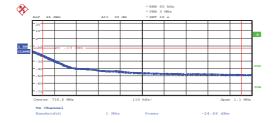


Date: 3.APR.2018 12:31:47

## 5 MHz - Ch: 23155 - RB# 1 RB Pos: 24



Integration 1 MHz outside the authorized band



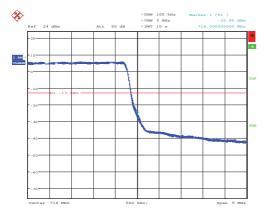
Date: 3.APR.2018 12:33:07

Report Number: 31862395.001 EUT: HSA-15UA-AAUA-AA Issue Date: July 9, 2018

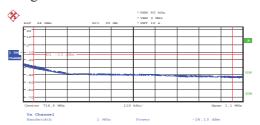
Date: 3.APR.2018 12:32:40

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## 5 MHz - Ch: 23155 - RB# 25 RB Pos: 0

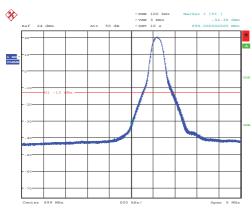


# Integration 1 MHz outside the authorized band



Date: 3.APR.2018 12:33:31

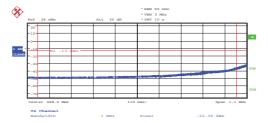
#### 10 MHz - Ch: 23060 - RB# 1 RB Pos: 0



Date: 3.APR.2018 12:33:58

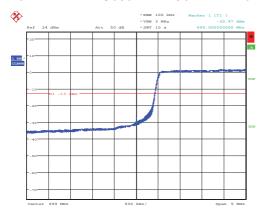
Date: 3.APR.2018 12:34:52

# Integration 1 MHz outside the authorized band

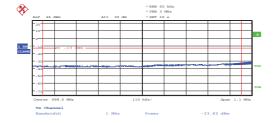


Date: 3.APR.2018 12:34:23

## 10 MHz - Ch: 23060 - RB# 50 RB Pos: 0



Integration 1 MHz outside the authorized band



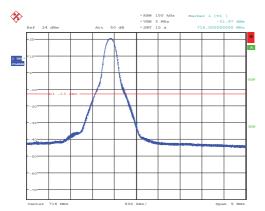
Date: 3.APR.2018 12:35:47

Report Number: 31862395.001 EUT: HSA-15UA-AAUA-AA Issue Date: July 9, 2018

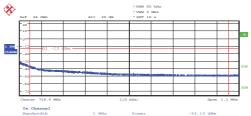
Date: 3.APR.2018 12:35:18

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# 10 MHz - Ch: 23130 - RB# 1 RB Pos: 49

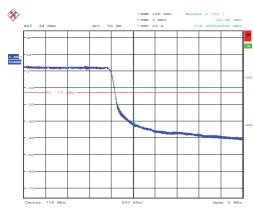


Integration 1 MHz outside the authorized band



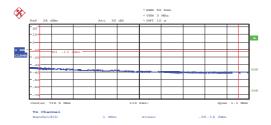
Date: 3.APR.2018 12:36:12

## 10 MHz - Ch: 23130 - RB# 50 RB Pos: 0



Date: 3.APR.2018 12:36:39

## Integration 1 MHz outside the authorized band



Date: 3.APR.2018 12:37:04

Date: 3.APR.2018 12:37:31

## **END OF REPROT**

Report Number: 31862395.001 EUT: HSA-15UA-AAUA-AA

Issue Date: July 9, 2018

FCCID: 2AHPN-HSA-15UA-AA