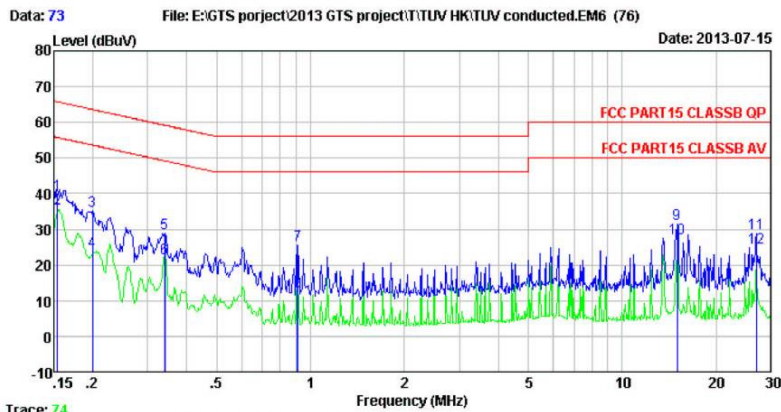


# Appendix 1

## Test Results

## Disturbance Voltage on AC Mains

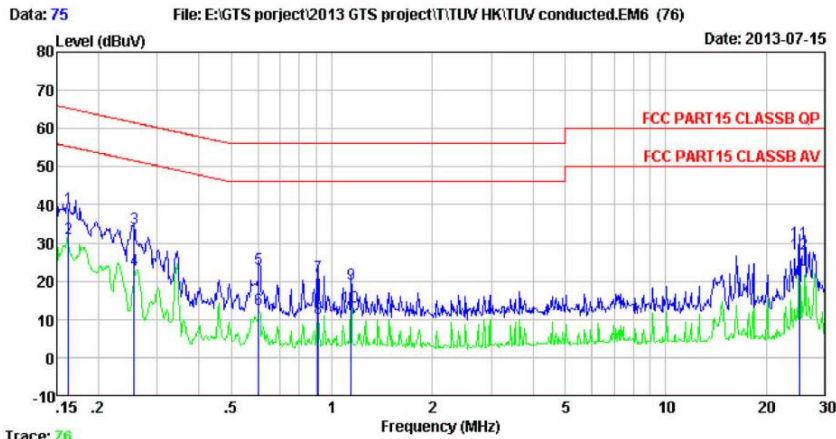
GTS Lab  
 Tel: 86-0755-2779 8480/2779 5869  
 Fax: 86-0755-2779 8960  
 E-mail: [szsale@gtstest.com](mailto:szsale@gtstest.com)  
[www.gtstest.com](http://www.gtstest.com)



Trace: 74  
 Condition : FCC PART15 CLASSB QP LISN-2012 LINE  
 EUT : Bluetooth Speaker  
 Model No. : EBS1003  
 Sample No. : 0013072231-002  
 TUV Order No. : 144005771

	Read Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.154	40.01	-0.26	0.10	39.85	65.78	-25.93	QP
2	0.154	36.04	-0.26	0.10	35.88	55.78	-19.90	Average
3	0.200	35.18	-0.23	0.10	35.05	63.62	-28.57	QP
4	0.200	24.14	-0.23	0.10	24.01	53.62	-29.61	Average
5	0.341	28.99	-0.22	0.10	28.87	59.18	-30.31	QP
6	0.341	21.92	-0.22	0.10	21.80	49.18	-27.38	Average
7	0.909	25.53	-0.21	0.10	25.42	56.00	-30.58	QP
8	0.909	12.58	-0.21	0.10	12.47	46.00	-33.53	Average
9	14.986	31.76	-0.52	0.20	31.44	60.00	-28.56	QP
10	14.986	27.73	-0.52	0.20	27.41	50.00	-22.59	Average
11	26.984	29.55	-0.91	0.22	28.86	60.00	-31.14	QP
12	26.984	25.57	-0.91	0.22	24.88	50.00	-25.12	Average

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[www.gtstest.com](http://www.gtstest.com)

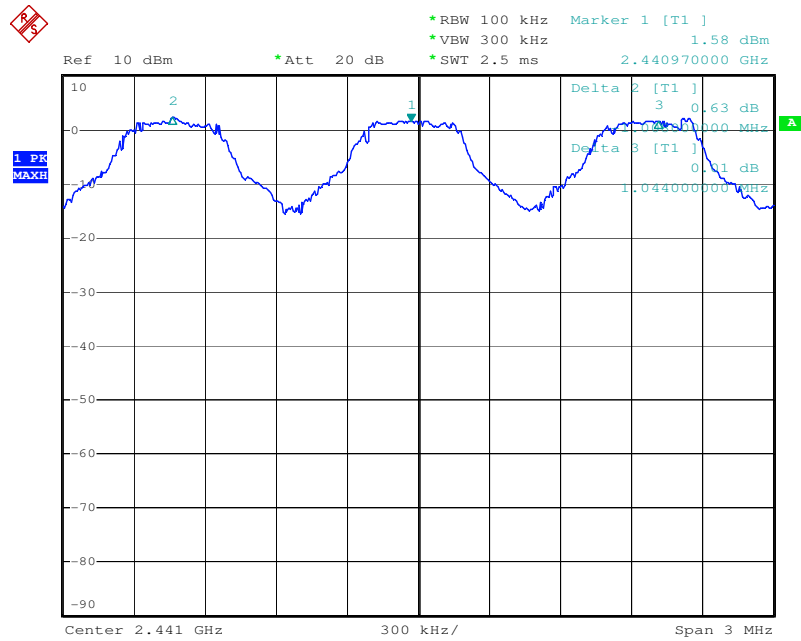


Trace: 76  
 Condition : FCC PART15 CLASSB QP LISN-2012 NEUTRAL  
 EUT : Bluetooth Speaker  
 Model No. : EBS1003  
 Sample No. : 0013072231-002  
 TUV Order No. : 144005771

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.162	39.16	-0.13	0.10	39.13	65.34	-26.21	QP
2	0.162	31.13	-0.13	0.10	31.10	55.34	-24.24	Average
3	0.256	33.76	-0.09	0.10	33.77	61.56	-27.79	QP
4	0.256	22.73	-0.09	0.10	22.74	51.56	-28.82	Average
5	0.604	23.29	-0.08	0.10	23.31	56.00	-32.69	QP
6	0.604	12.51	-0.08	0.10	12.53	46.00	-33.47	Average
7	0.909	21.21	-0.09	0.10	21.22	56.00	-34.78	QP
8	0.909	10.18	-0.09	0.10	10.19	46.00	-35.81	Average
9	1.141	19.13	-0.09	0.10	19.14	56.00	-36.86	QP
10	1.141	13.19	-0.09	0.10	13.20	46.00	-32.80	Average
11	25.188	30.72	-0.75	0.21	30.18	60.00	-29.82	QP
12	25.188	27.79	-0.75	0.21	27.25	50.00	-22.75	Average

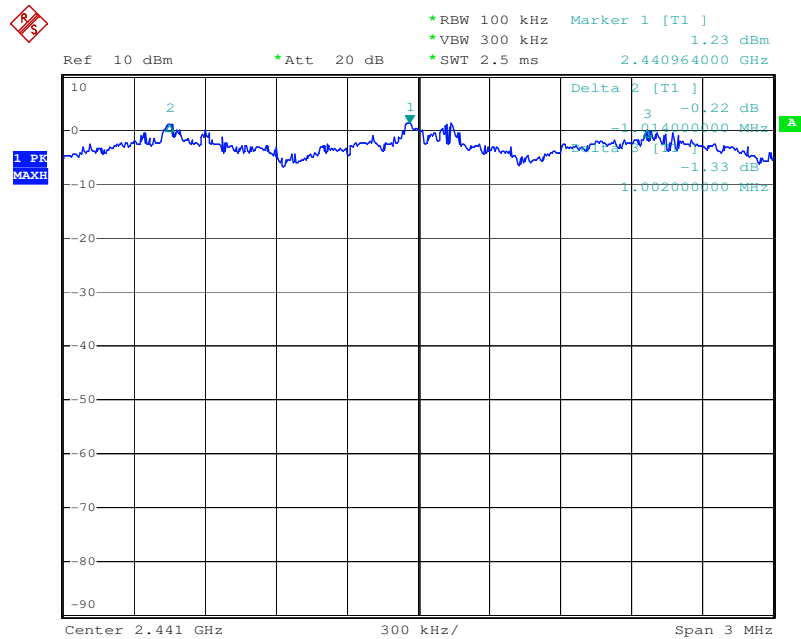
## Carrier Frequency Separation

### GFSK



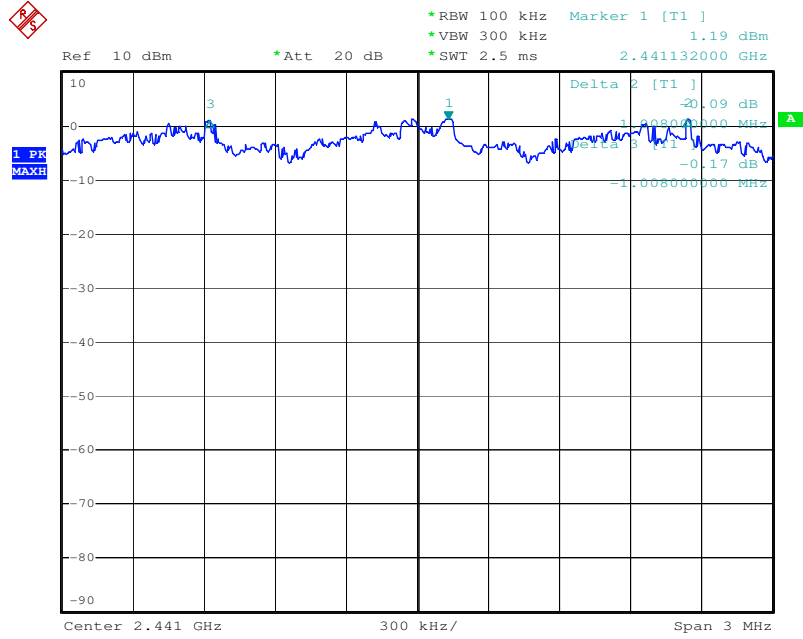
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### Pi/4 DQPSK



Date: 7.AUG.2013 11:11:37

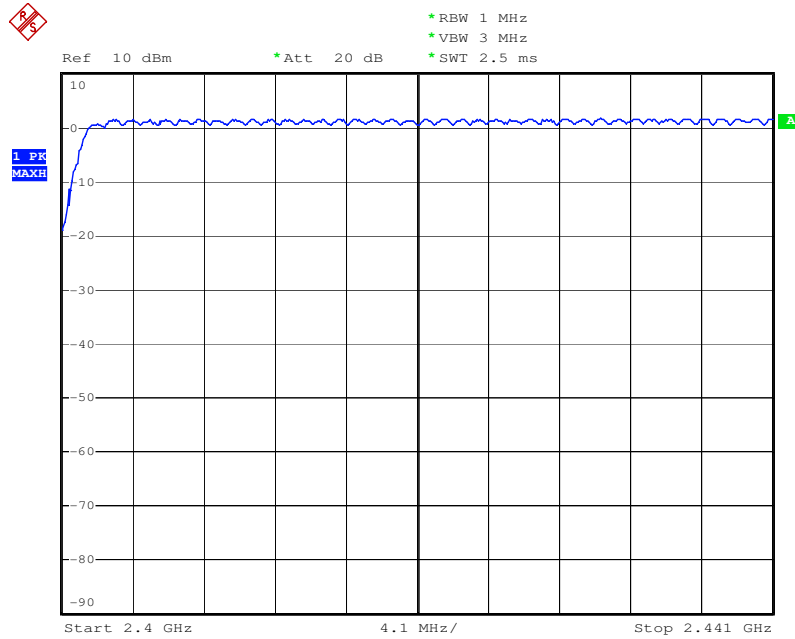
8 DPSK



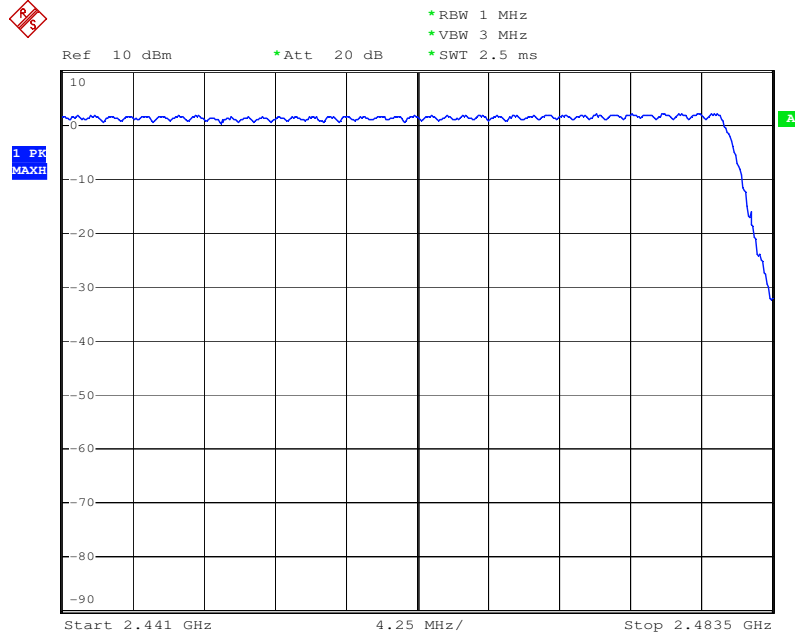
Date: 7.AUG.2013 11:15:36

# Number of hopping channels

GFSK

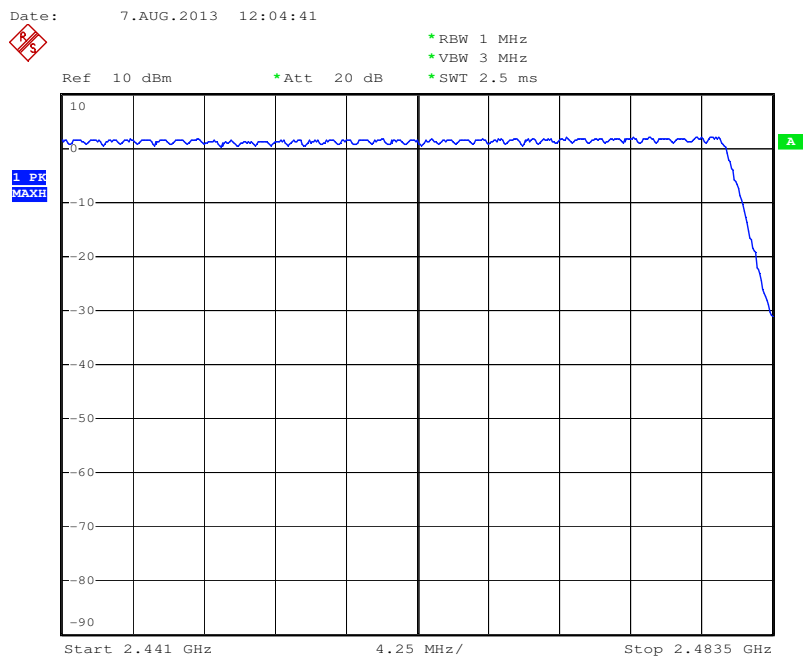
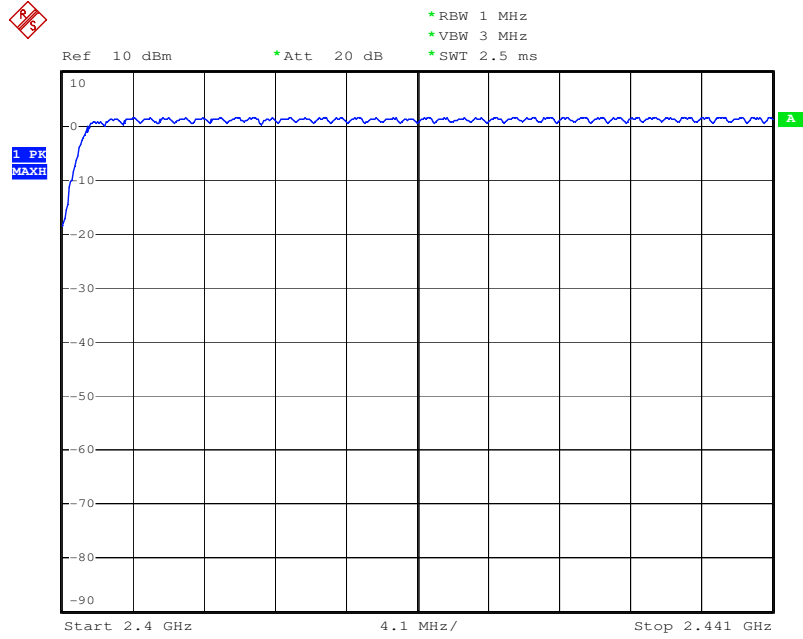


Date: 7.AUG.2013 11:54:00



Date: 7.AUG.2013 11:54:27

Pi/4 DQPSK



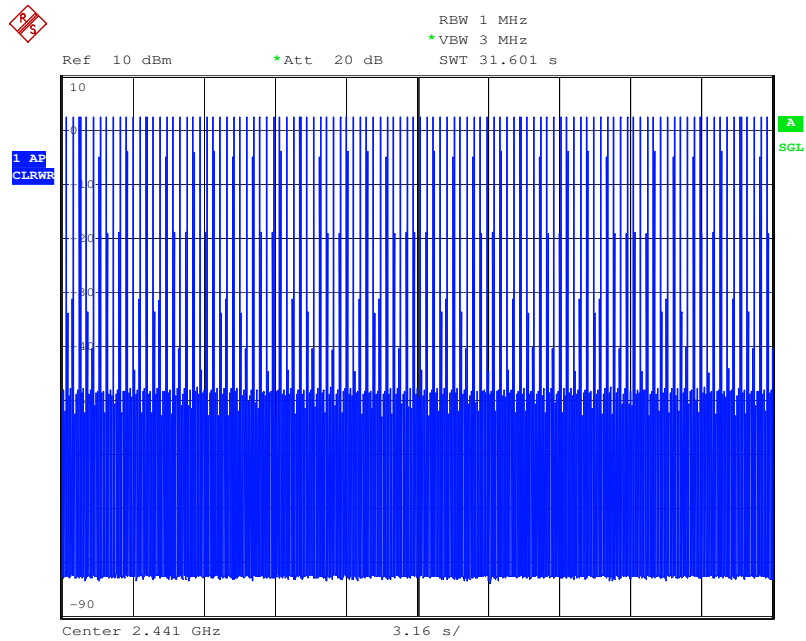
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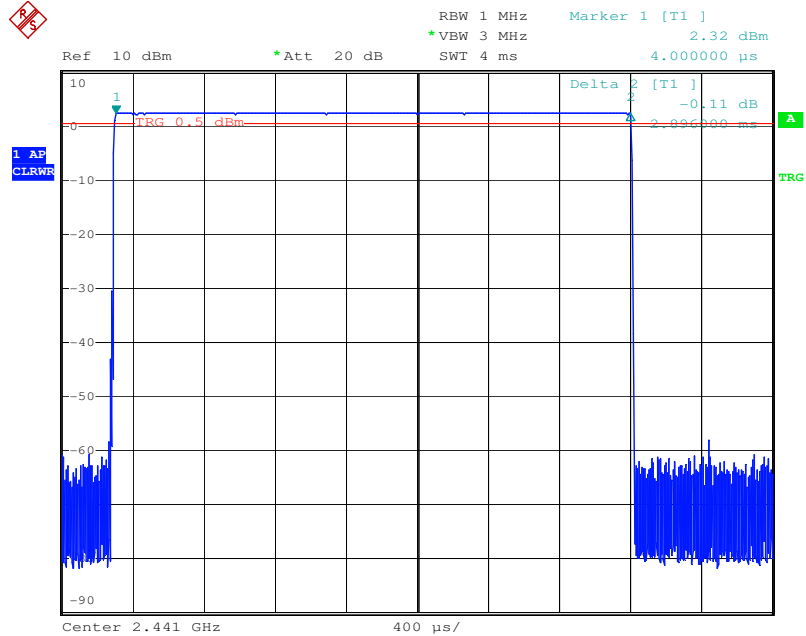


# Dwell Time

## GFSK

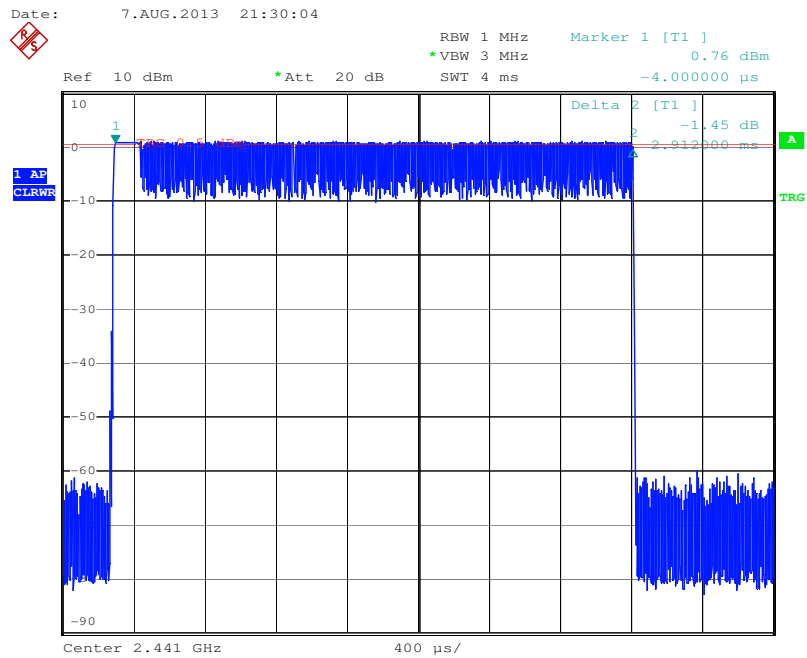
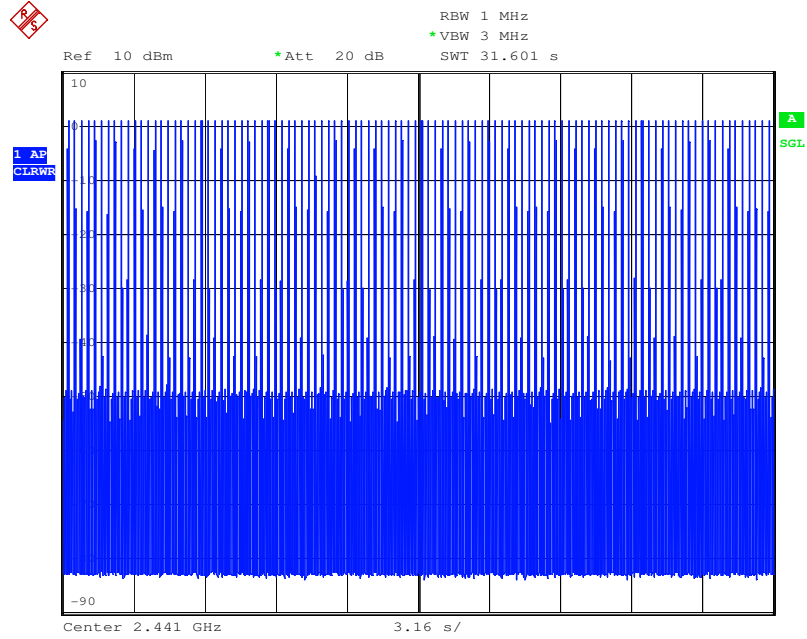


Date: 7.AUG.2013 11:59:35



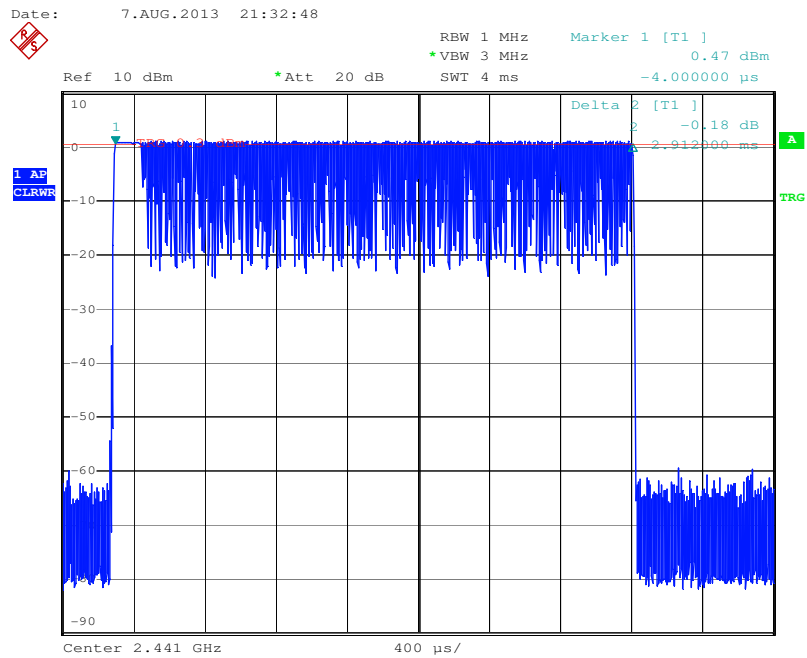
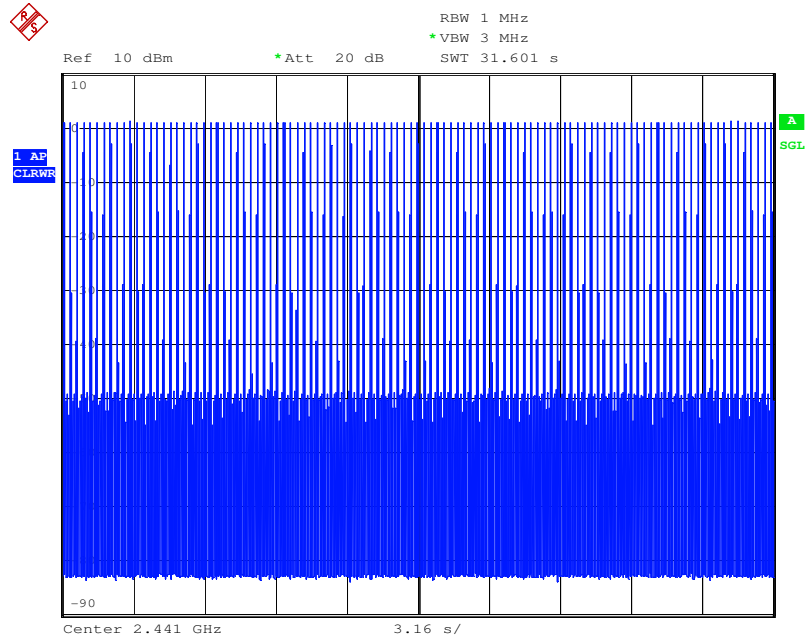
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Pi/4 DQPSK



Date: 7.AUG.2013 21:30:31

8 DPSK

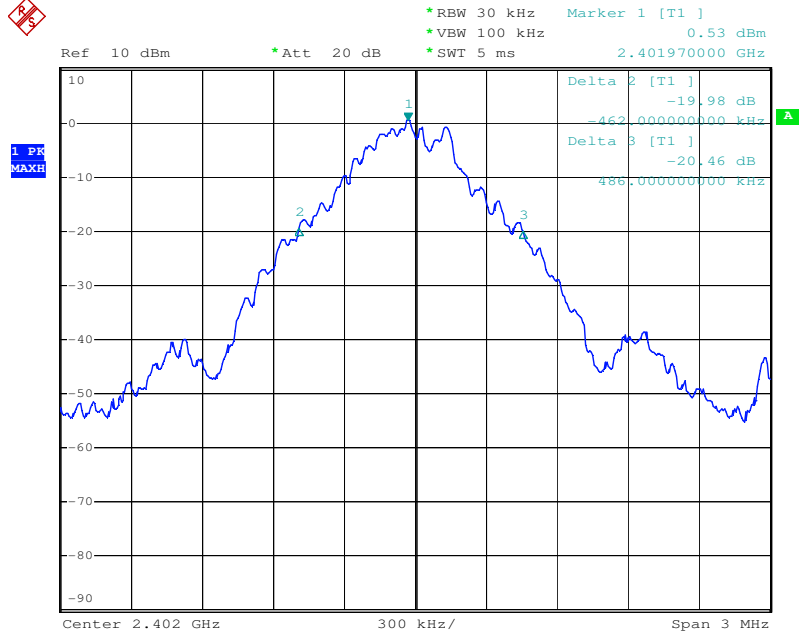


Date: 7.AUG.2013 21:33:20

## 20dB Bandwidth

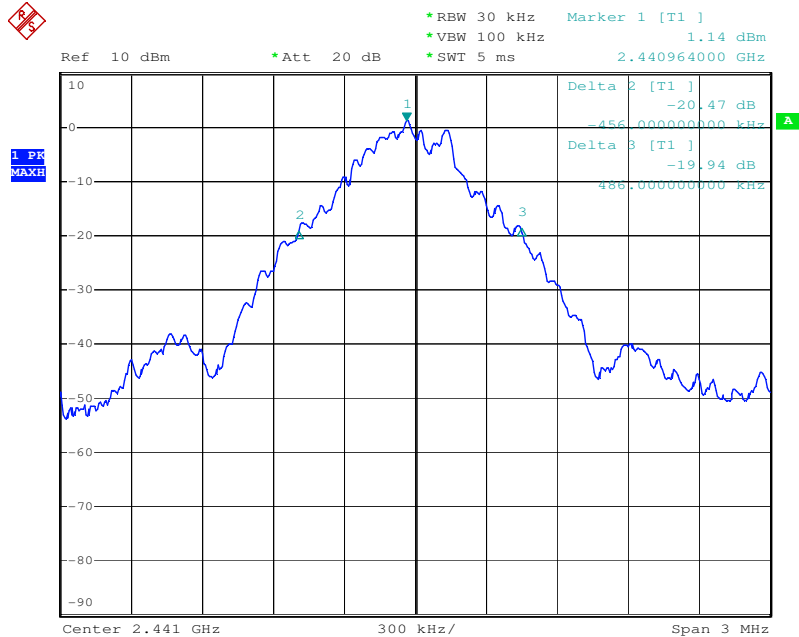
GFSK

Tx frequency: 2402MHz



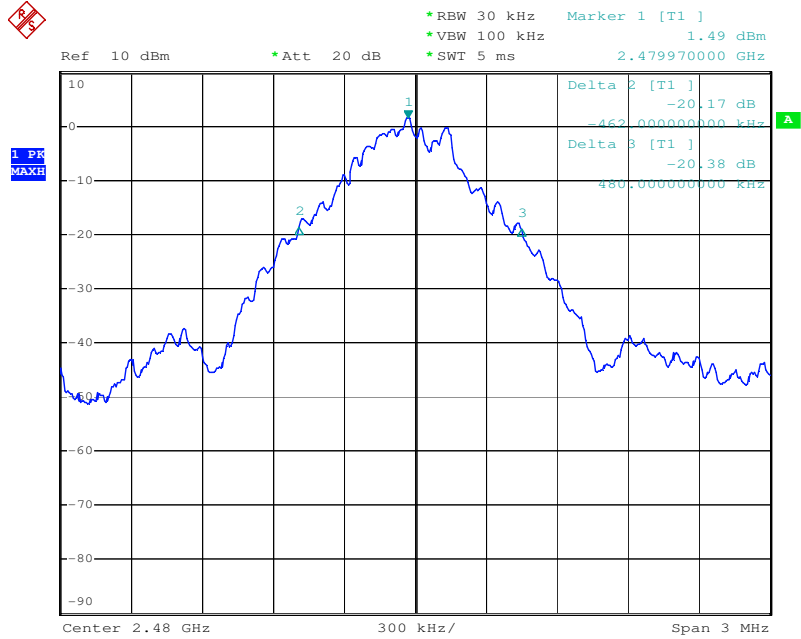
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Tx frequency: 2441MHz



Date: 7.AUG.2013 11:28:35

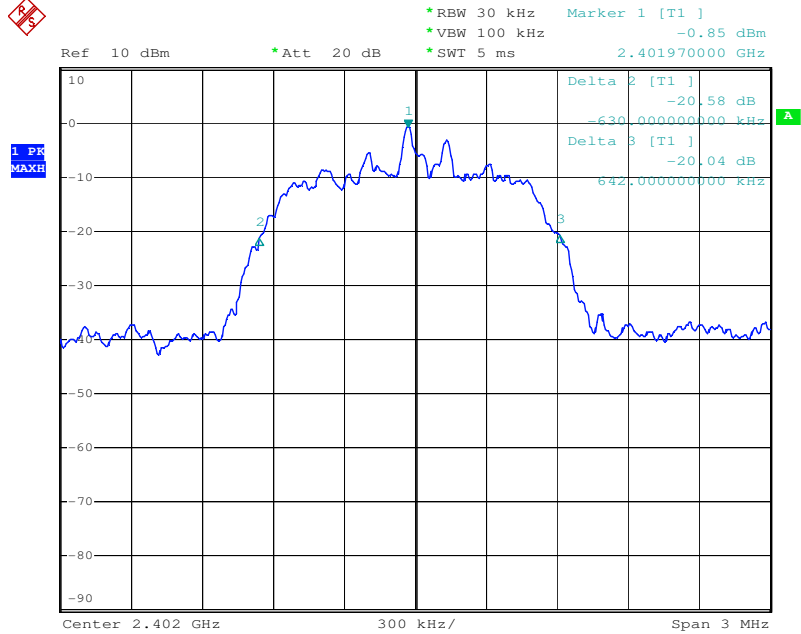
Tx frequency: 2480MHz



Date: 7.AUG.2013 11:38:26

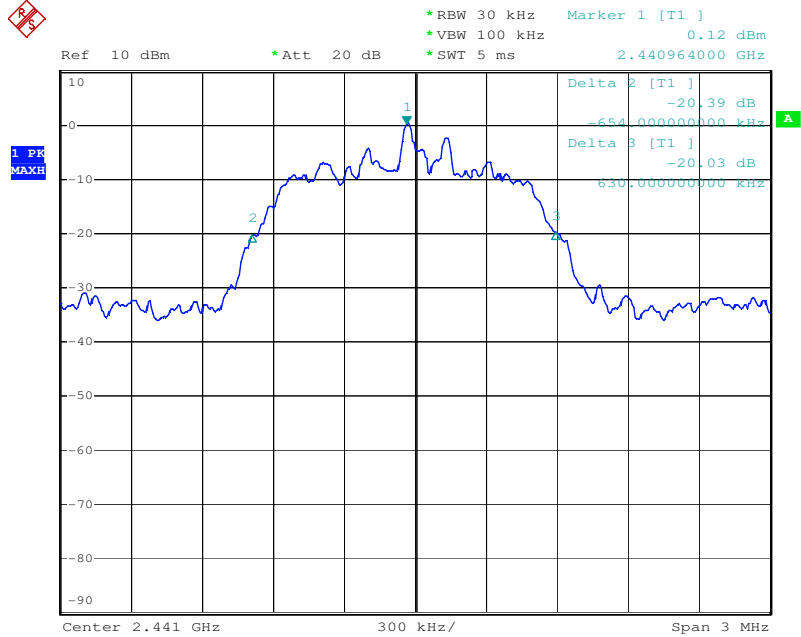
www.tuv.com

Pi/4 DQPSK  
Tx frequency: 2402MHz



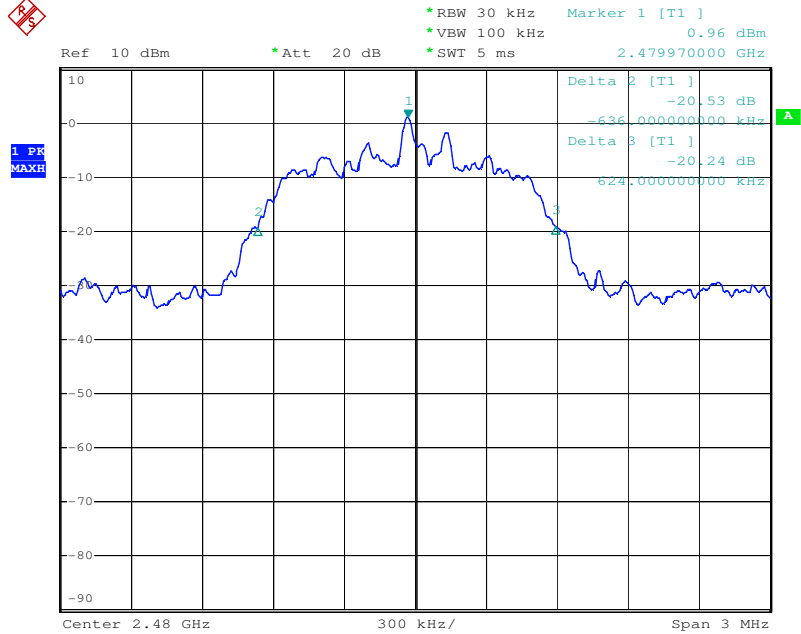
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Tx frequency: 2441MHz



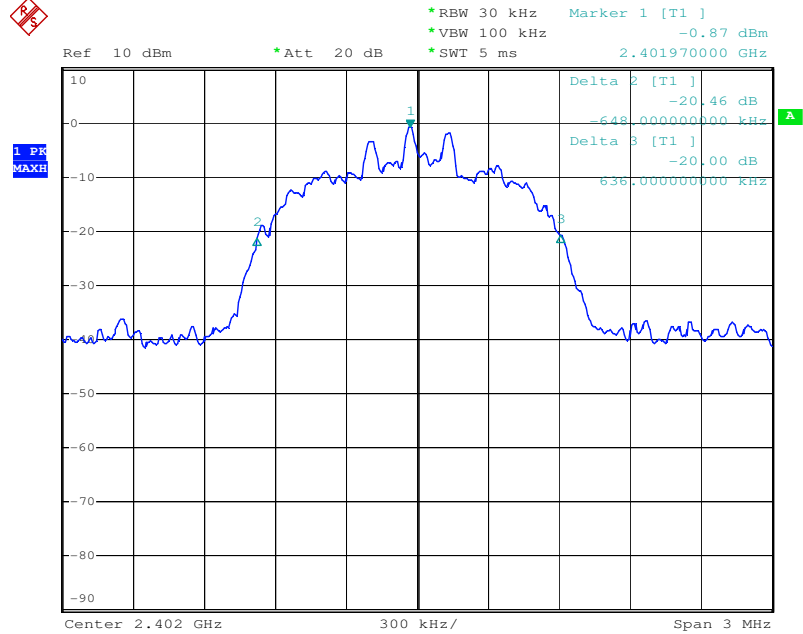
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Pi/4 DQPSK  
Tx frequency: 2480MHz



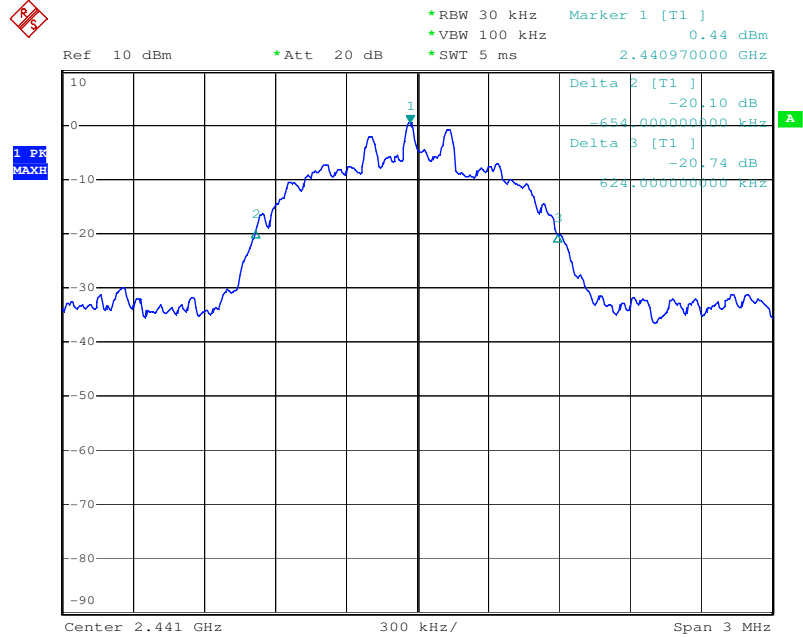
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8 DPSK  
Tx frequency: 2402MHz



Date: 7.AUG.2013 11:24:03

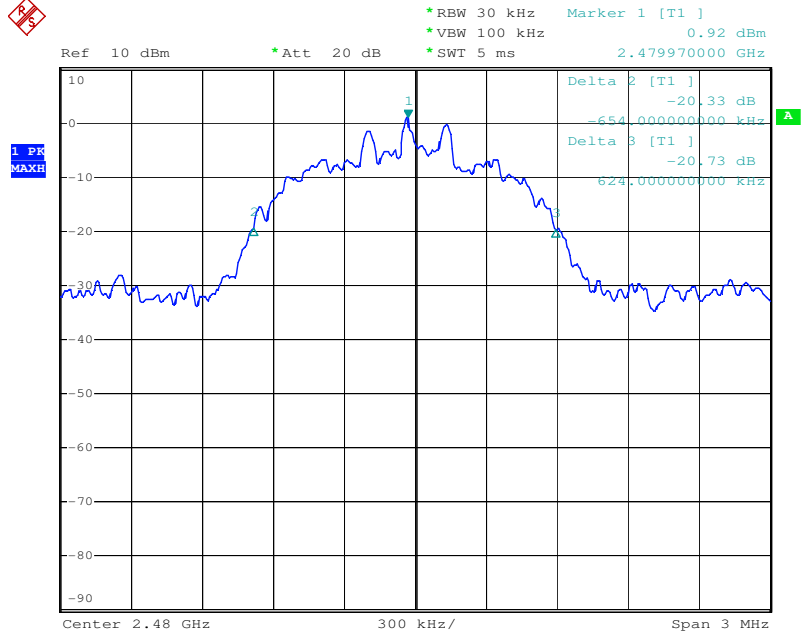
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Date: 7.AUG.2013 11:25:40



8 DPSK  
Tx frequency: 2480MHz

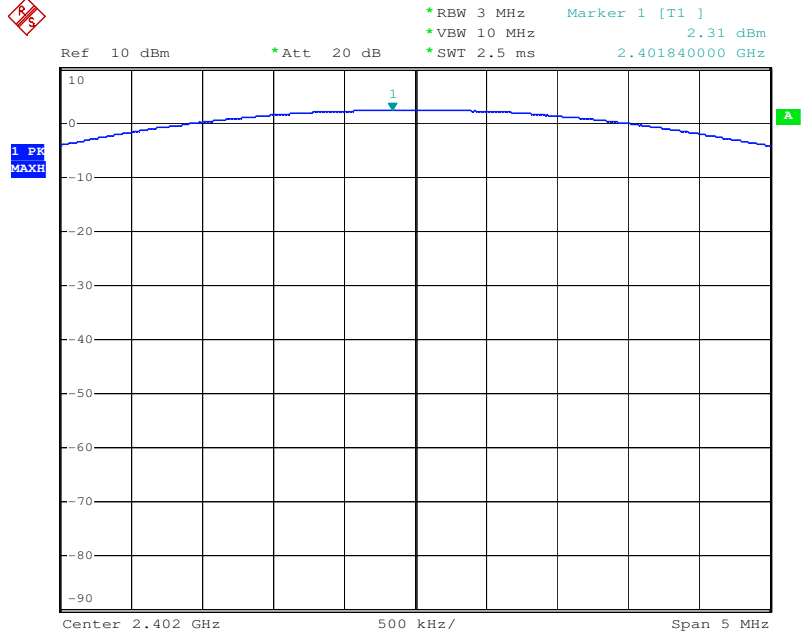


Date: 7.AUG.2013 11:42:03

# Peak Output Power

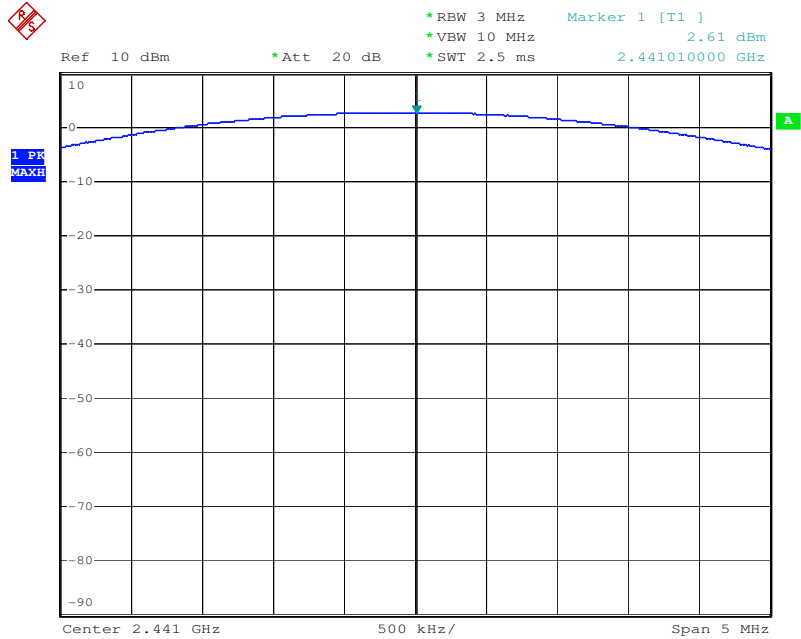
GFSK

Tx frequency: 2402MHz



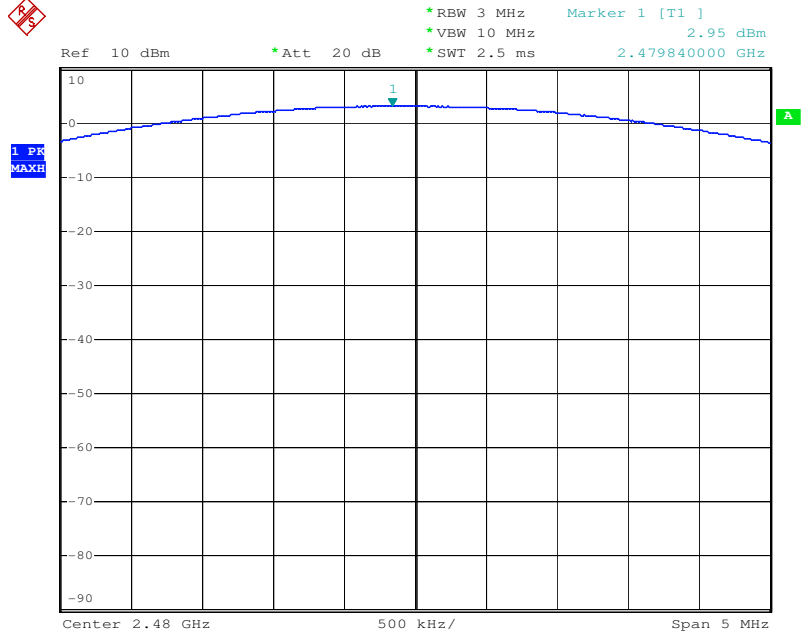
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Tx frequency: 2441MHz



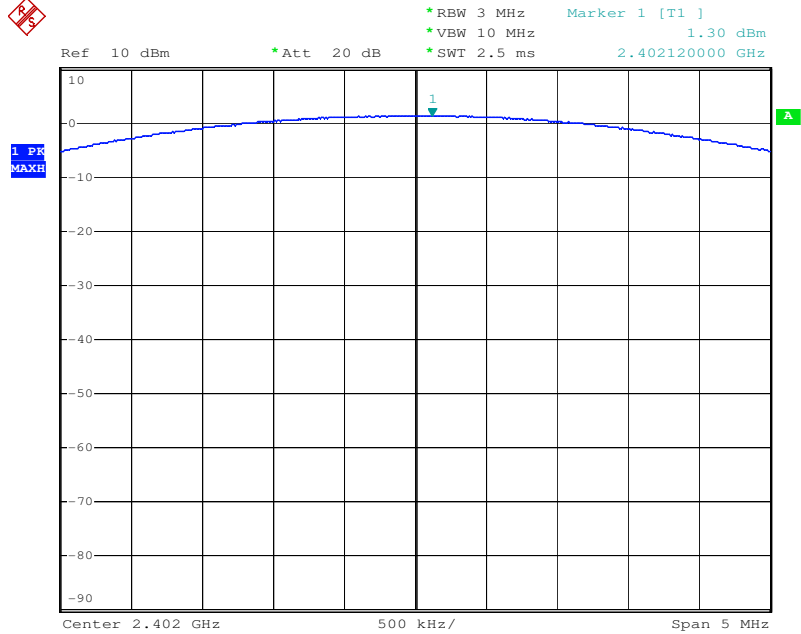
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GFSK  
Tx frequency: 2480MHz



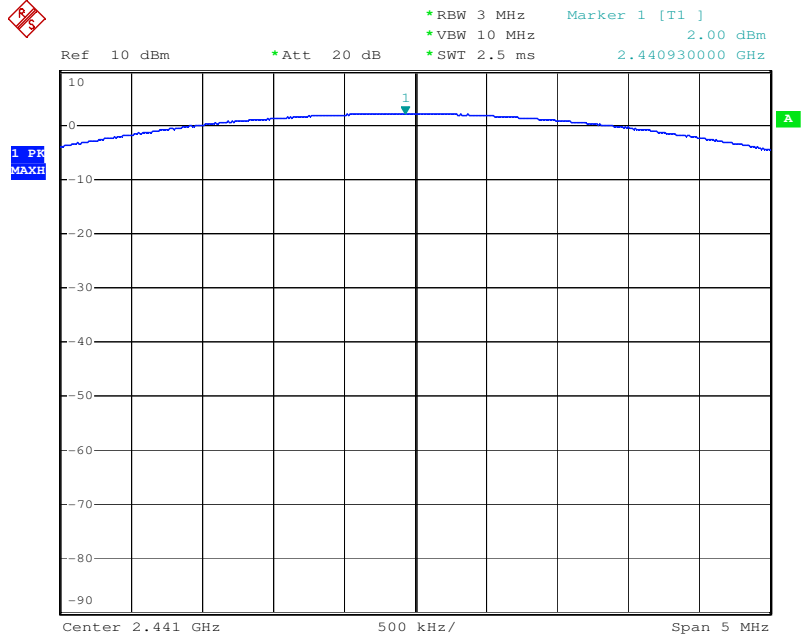
Date: 7.AUG.2013 13:22:06

Pi/4 DQPSK  
Tx frequency: 2402MHz



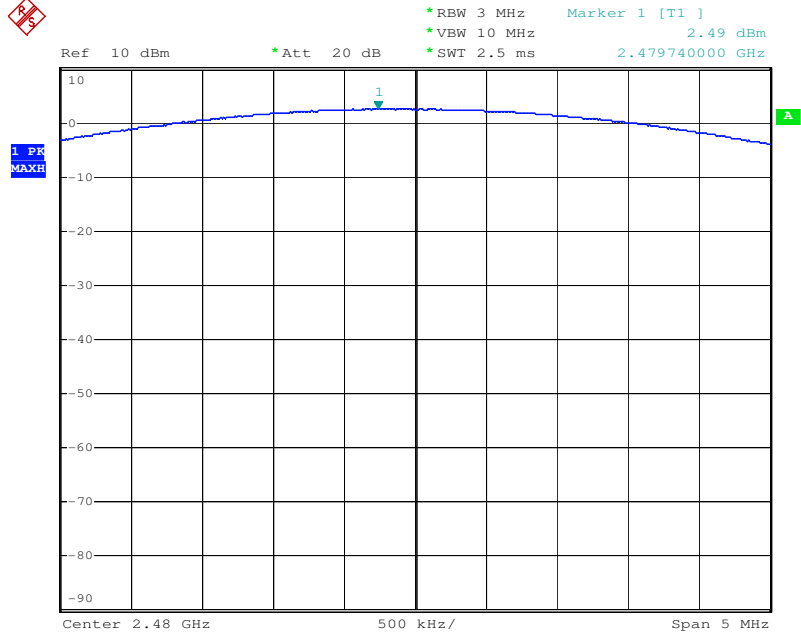
Date: 7.AUG.2013 13:23:43

Tx frequency: 2441MHz



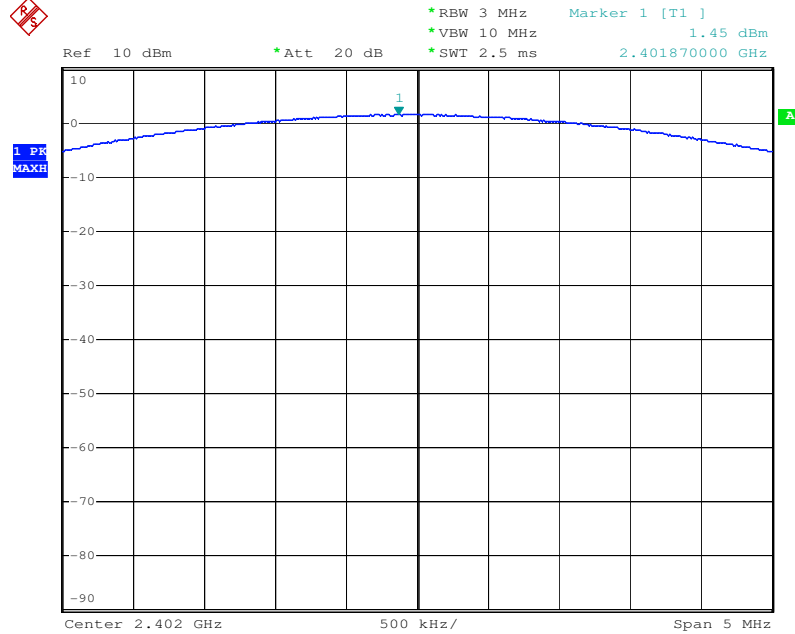
Date: 7.AUG.2013 13:24:12

Pi/4 DQPSK  
Tx frequency: 2480MHz



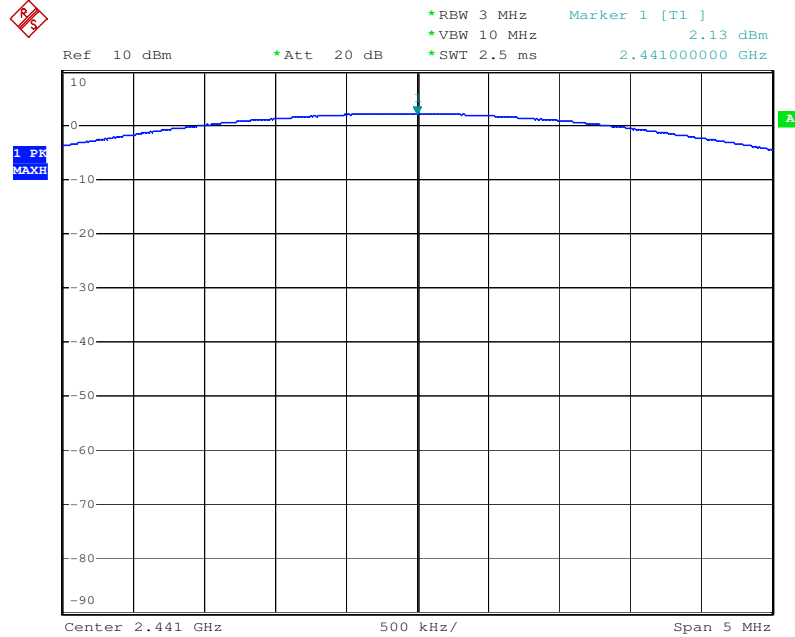
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8 DPSK  
Tx frequency: 2402MHz



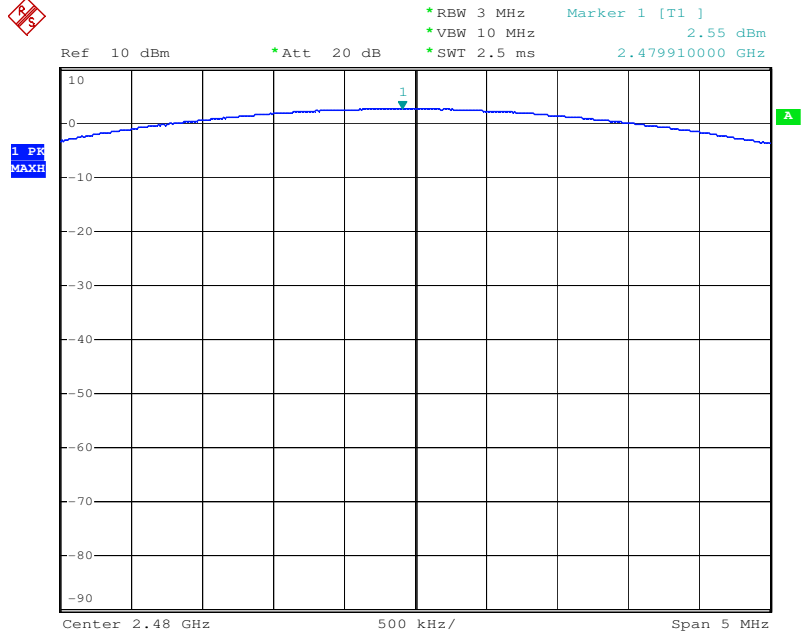
Date: 7.AUG.2013 13:26:22

Tx frequency: 2441MHz



Date: 7.AUG.2013 13:25:49

8 DPSK  
Tx frequency: 2480MHz



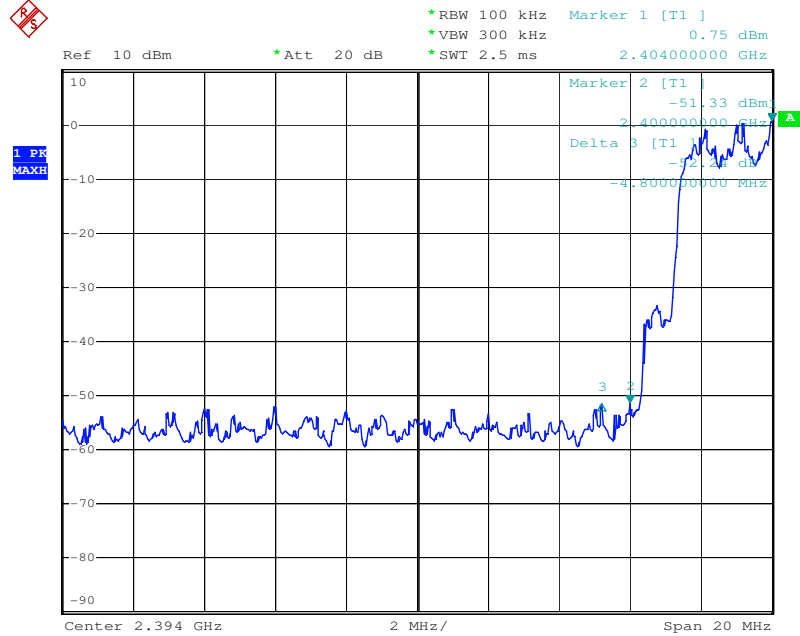
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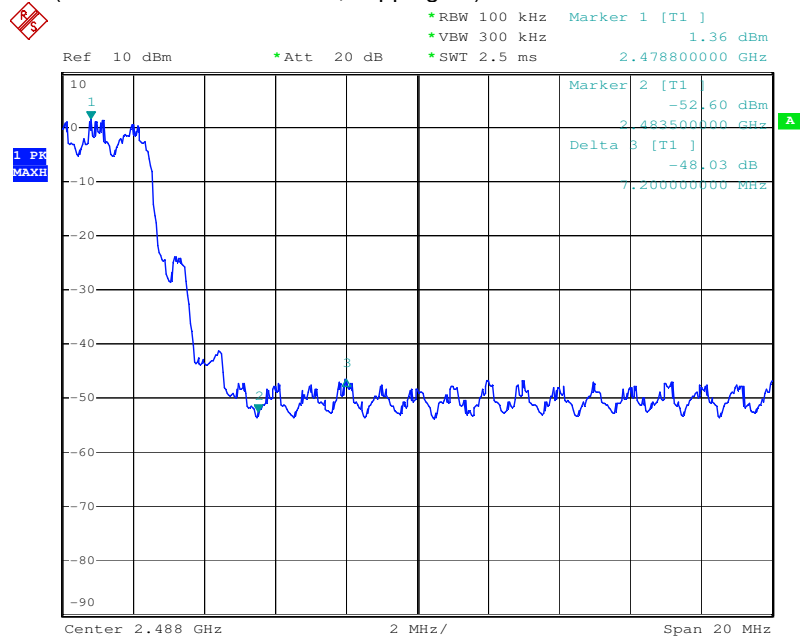
Pi/4 DQPSK

Tx frequency: 2402MHz (conducted measurement; hopping on)



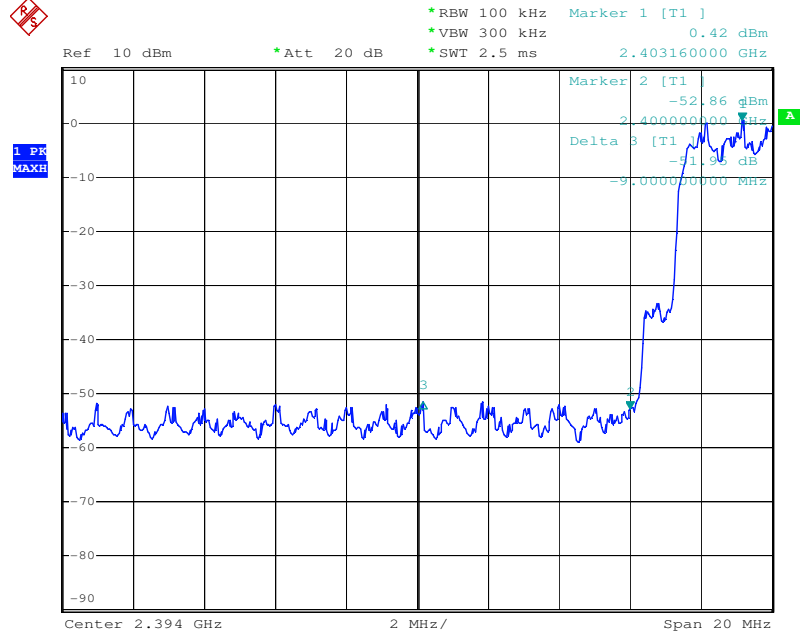
Date: 16.AUG.2013 21:03:47

Tx frequency: 2480MHz (conducted measurement; hopping on)



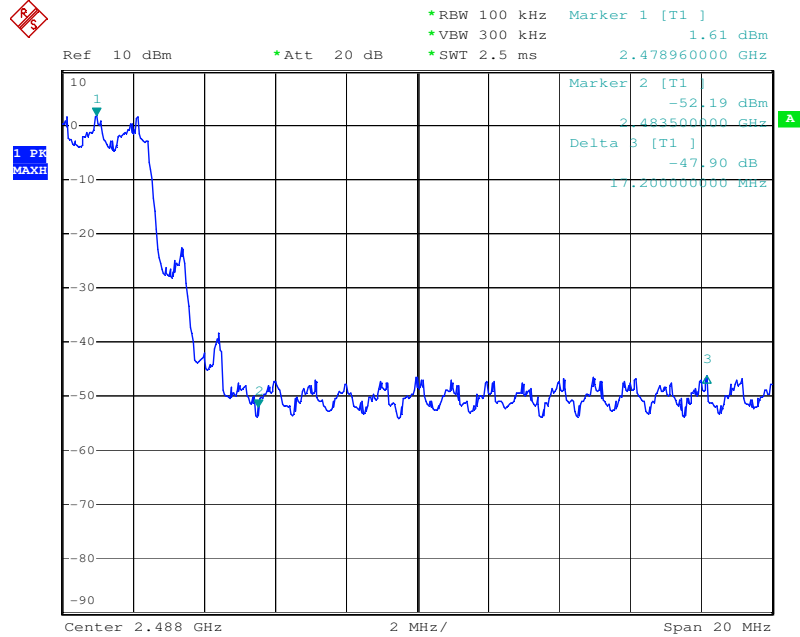
Date: 16.AUG.2013 21:11:49

8 DPSK  
Tx frequency: 2402MHz (conducted measurement; hopping on)



Date: 16.AUG.2013 20:53:40

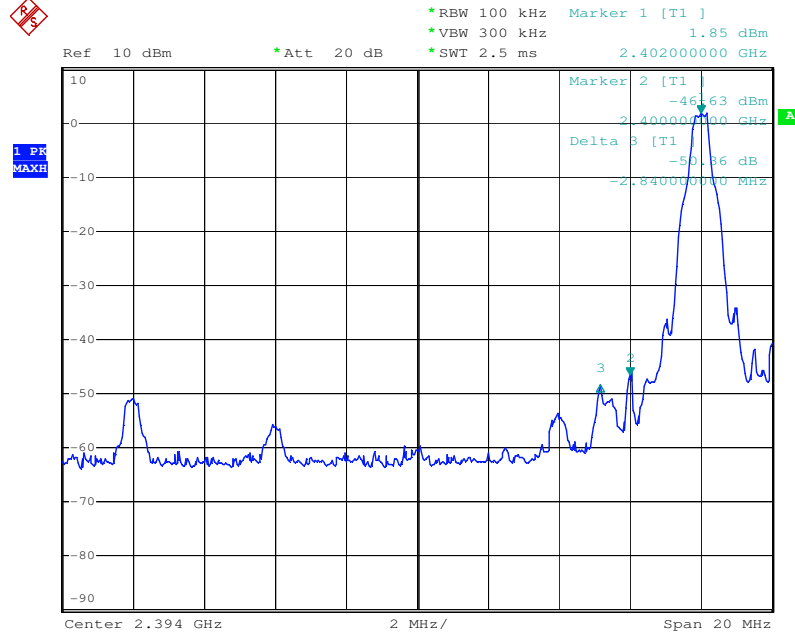
Tx frequency: 2480MHz (conducted measurement; hopping on)



Date: 16.AUG.2013 21:01:37

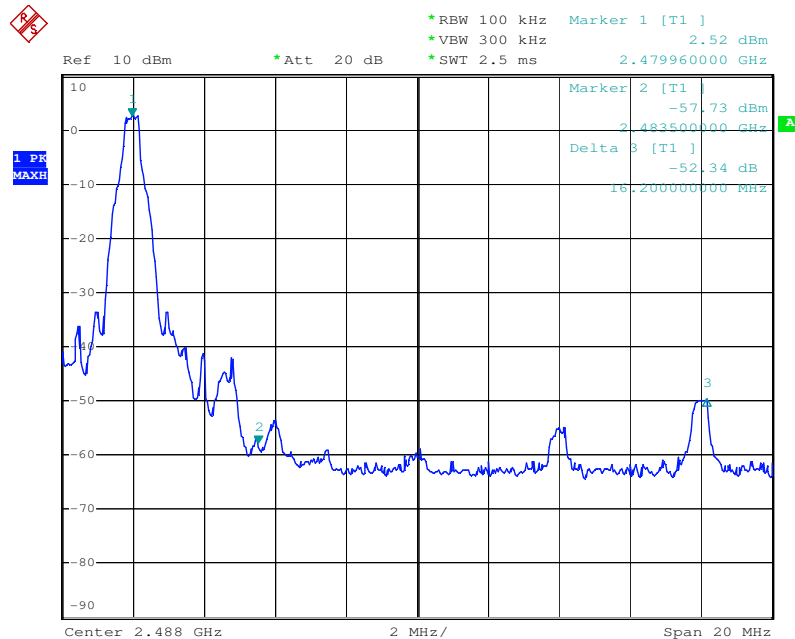
GFSK

Tx frequency: 2402MHz (conducted measurement; hopping off)



Date: 7.AUG.2013 13:37:55

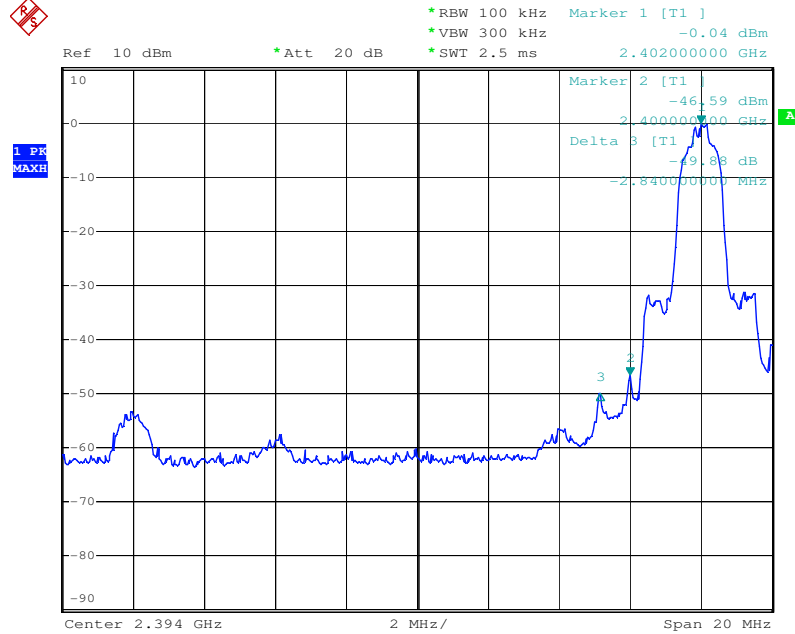
Tx frequency: 2480MHz (conducted measurement; hopping off)



Date: 7.AUG.2013 13:38:36

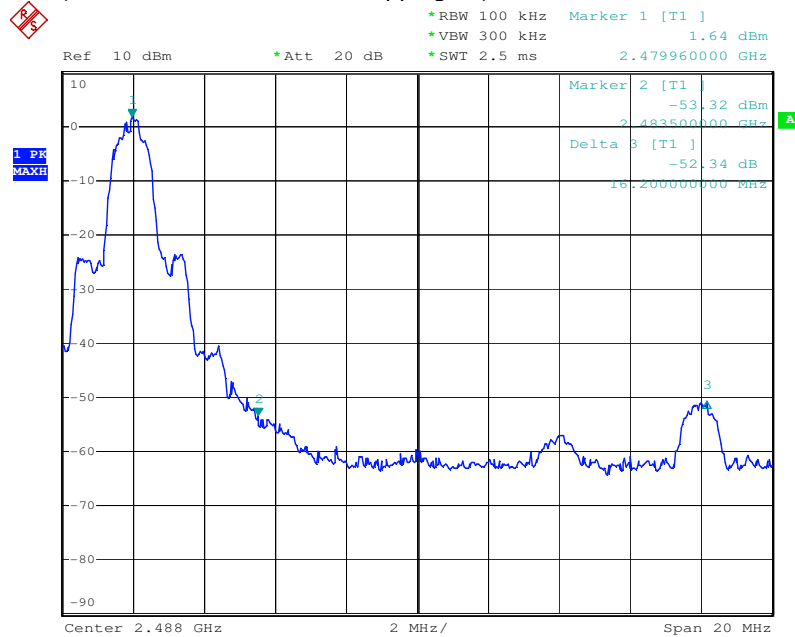
Pi/4 DQPSK

Tx frequency: 2402MHz (conducted measurement; hopping off)



Date: 7.AUG.2013 13:40:16

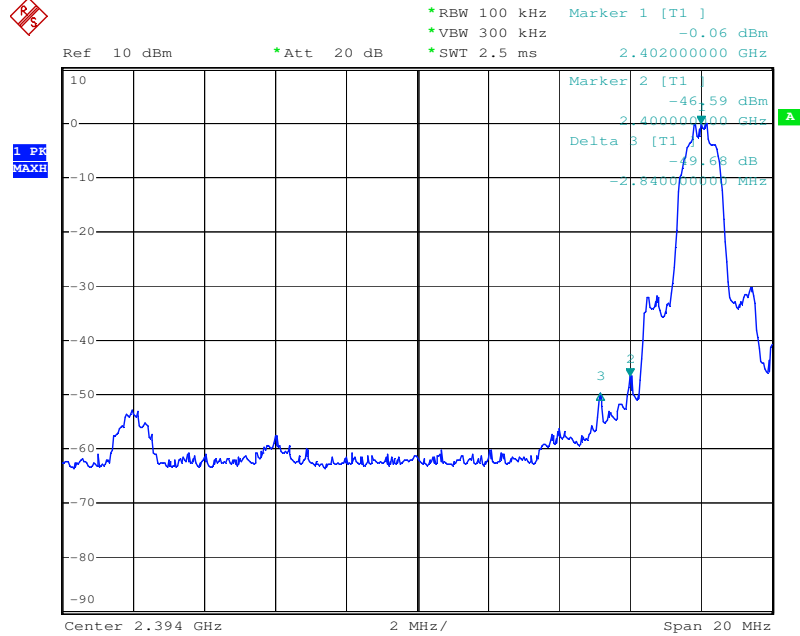
Tx frequency: 2480MHz (conducted measurement; hopping off)



Date: 7.AUG.2013 13:40:59

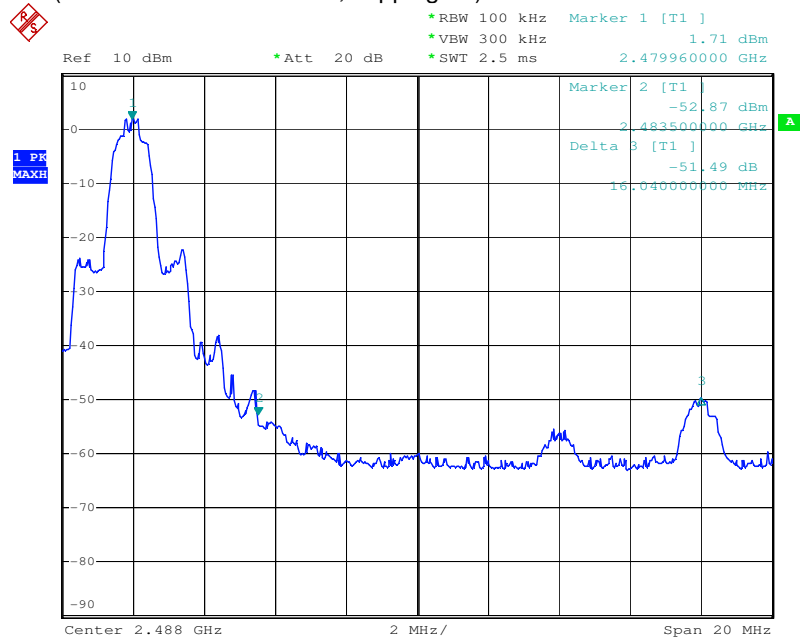
**8 DPSK**

Tx frequency: 2402MHz (conducted measurement; hopping off)



Date: 7.AUG.2013 13:42:26

Tx frequency: 2480MHz (conducted measurement; hopping off)

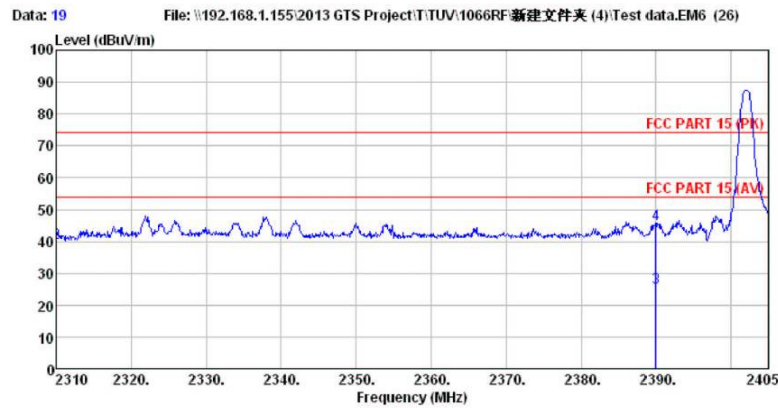


Date: 7.AUG.2013 13:44:23

Tx frequency: 2402MHz (radiated measurement), GFSK

Vertical Polarization

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 E-mail: szsale@gstest.com  
 www.gstest.com



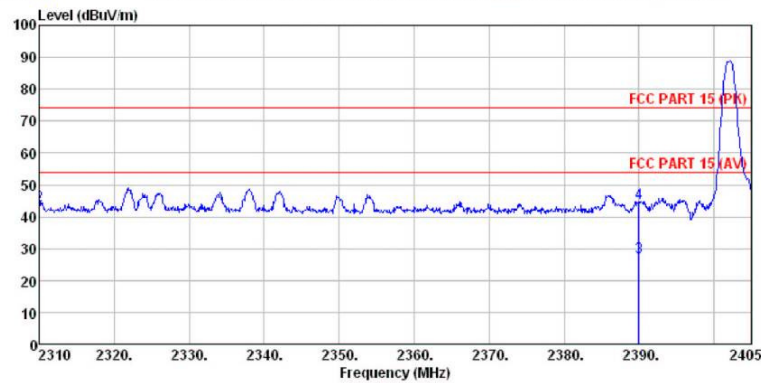
Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) VERTICAL  
 EUT : Bluetooth Speaker  
 Model No. : EBS1003  
 Sample No. : 00130702231-001  
 TUV Order No: 144005771  
 Test Mode : TX on mode  
 Remark : 2402MHz

	Freq	ReadAntenna		Cable Preamp		Level	Limit	Over	Remark
		Level	Factor	Loss	Factor				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2310.000	27.25	27.91	5.30	34.11	26.35	54.00	-27.65	Average
2	2310.000	40.39	27.91	5.30	34.11	39.49	74.00	-34.51	Peak
3	2390.000	26.63	27.59	5.38	34.01	25.59	54.00	-28.41	Average
4	2390.000	46.60	27.59	5.38	34.01	45.56	74.00	-28.44	Peak

## Horizontal Polarization

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 E-mail: [szsale@gtstest.com](mailto:szsale@gtstest.com)  
[www.gtstest.com](http://www.gtstest.com)

Data: 21 File: \\192.168.1.155\2013 GTS Project\TUV\1066RF 新建文件夹 (4)\Test data.EM6 (26)



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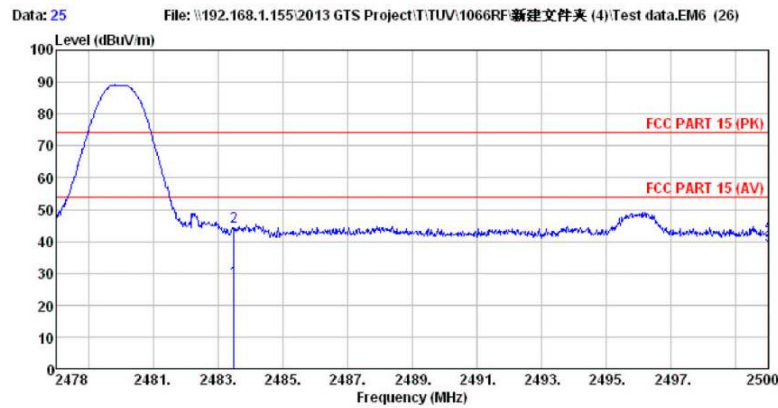
Site       : 3m chamber
Condition  : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) HORIZONTAL
EUT       : Bluetooth Speaker
Model No.  : EBS1003
Sample No. : 00130702231-001
TUV Order No: 144005771
Test Mode  : TX on mode
Remark    : 2402MHz
    
```

	Freq MHz	ReadAntenna		Cable Preamp		Level dB	Limit dB	Over Limit	Remark
		Level dBuV	Factor dB/m	Loss dB	Factor dB				
1	2310.000	28.02	27.91	5.30	34.11	27.12	54.00	-26.88	Average
2	2310.000	44.60	27.91	5.30	34.11	43.70	74.00	-30.30	Peak
3	2390.000	28.23	27.59	5.38	34.01	27.19	54.00	-26.81	Average
4	2390.000	45.34	27.59	5.38	34.01	44.30	74.00	-29.70	Peak

Tx frequency: 2480MHz (radiated measurement), GFSK

Vertical Polarization

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 Fax: 86-0755-2779 8960  
 E-mail: szsale@gstest.com  
 www.gstest.com



Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) VERTICAL  
 EUT : Bluetooth Speaker  
 Model No. : EBS1003  
 Sample No. : 00130702231-001  
 TUV Order No: 144005771  
 Test Mode : TX on mode  
 Remark : 2480MHz

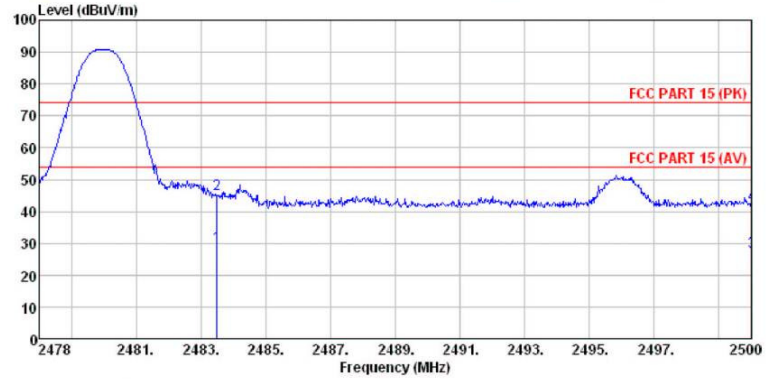
	Freq	ReadAntenna		Cable Preamp		Level	Limit	Over	Remark
		Level	Factor	Loss	Factor				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	28.56	27.53	5.47	33.92	27.64	54.00	-26.36	Average
2	2483.500	45.58	27.53	5.47	33.92	44.66	74.00	-29.34	Peak
3	2500.000	39.73	27.55	5.49	33.90	38.87	54.00	-15.13	Average
4	2500.000	43.22	27.55	5.49	33.90	42.36	74.00	-31.64	Peak



## Horizontal Polarization

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 Fax: 86-0755-2779 8960  
 E-mail: szsale@gstest.com  
[www.gstest.com](http://www.gstest.com)

Data: 23 File: \\192.168.1.155\2013 GTS Project\TUV\1066RF 新建文件夹 (4)\Test data.EM6 (26)

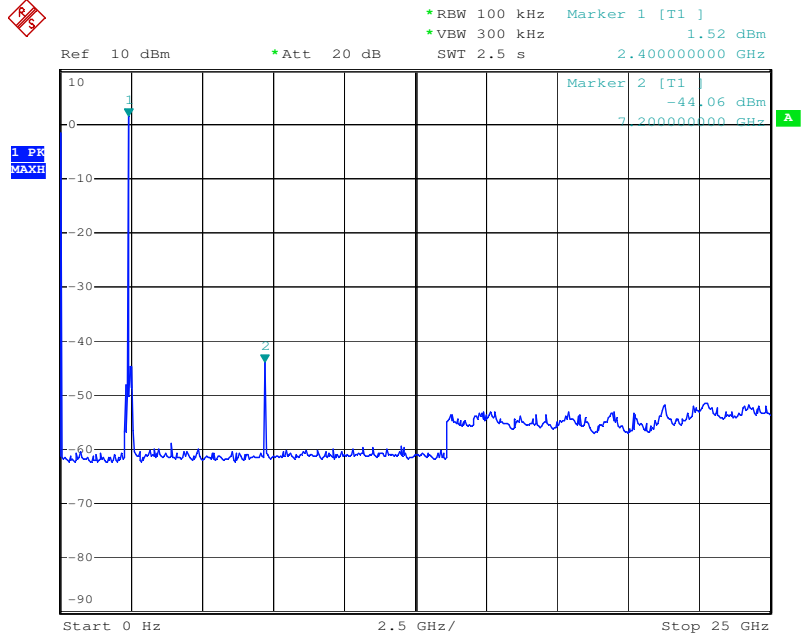


Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) HORIZONTAL  
 EUT : Bluetooth Speaker  
 Model No. : EBS1003  
 Sample No. : 00130702231-001  
 TUV Order No: 144005771  
 Test Mode : TX on mode  
 Remark : 2480MHz

	Freq MHz	ReadAntenna		Cable Preamp		Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Remark
		Level dBuV	Factor dB/m	Loss dB	Factor dB				
1	2483.500	30.21	27.53	5.47	33.92	29.29	54.00	-24.71	Average
2	2483.500	46.44	27.53	5.47	33.92	45.52	74.00	-28.48	Peak
3	2500.000	28.17	27.55	5.49	33.90	27.31	54.00	-26.69	Average
4	2500.000	42.75	27.55	5.49	33.90	41.89	74.00	-32.11	Peak

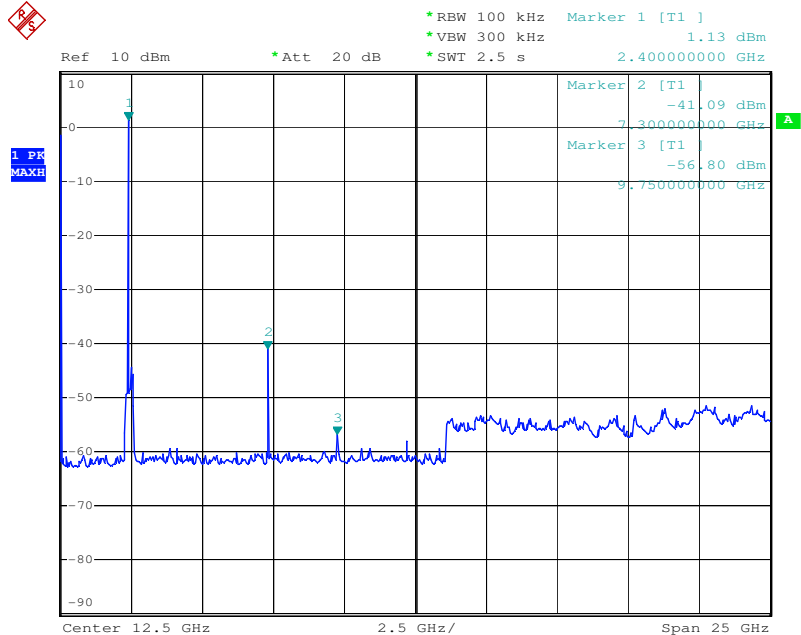
## Spurious Emissions - Conducted

GFSK  
Tx frequency: 2402MHz



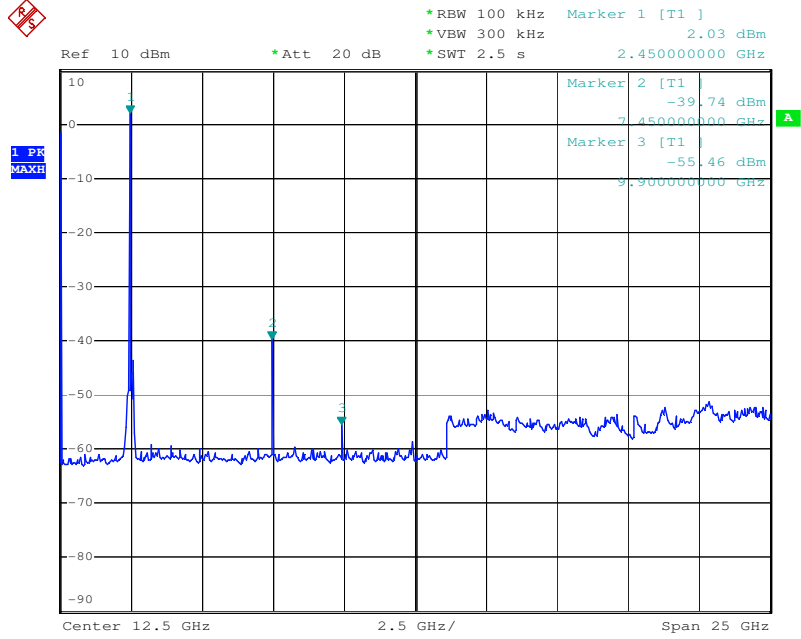
Date: 7.AUG.2013 15:57:25

Tx frequency: 2441MHz



Date: 7.AUG.2013 15:59:43

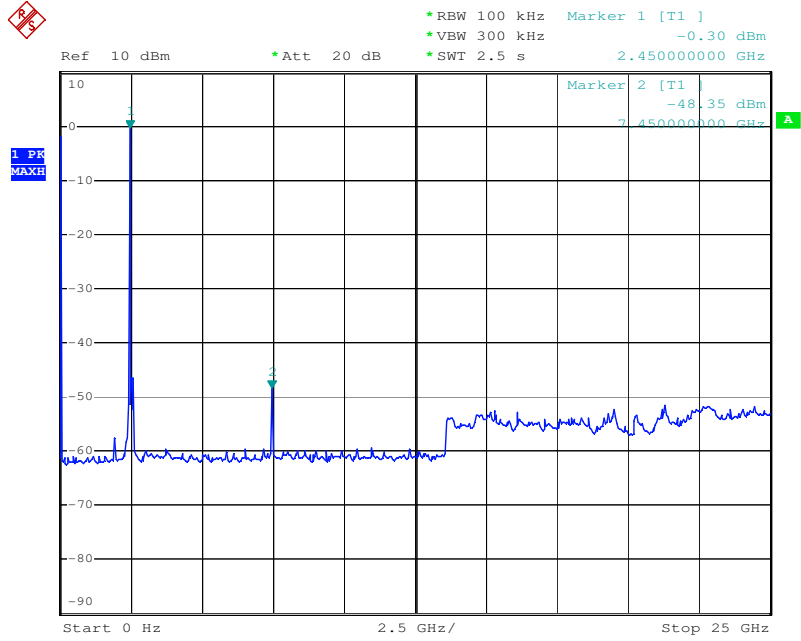
Tx frequency: 2480MHz



Date: 7.AUG.2013 15:58:37



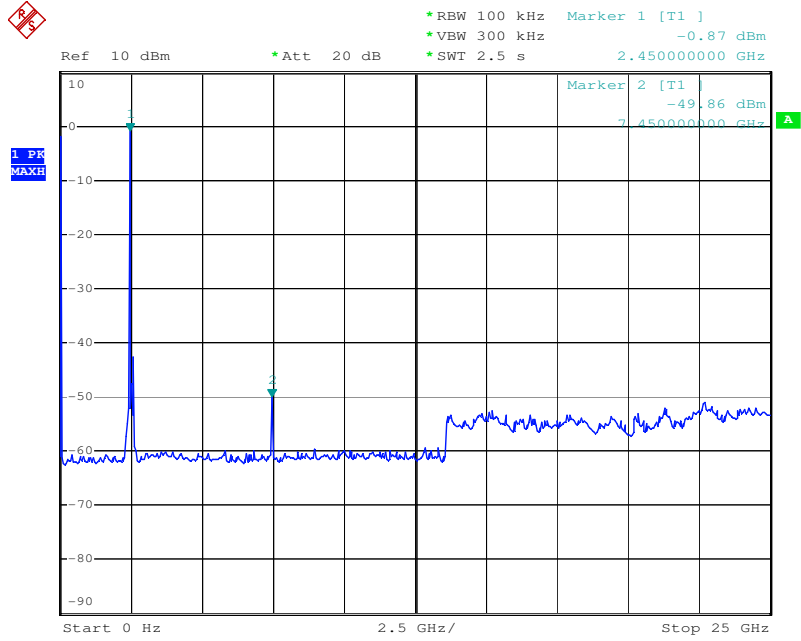
Tx frequency: 2480MHz



Date: 7.AUG.2013 21:05:06



Tx frequency: 2480MHz



Date: 7.AUG.2013 21:11:16