



Microtest
微 测 检 测

Test Report

Date of issue: 2022-09-20

Applicant: Promaster Electronic LLC

Product name: GPS TRACKER

Model(s): AVT-200, APT-100, APT-110, APT-120, AVT-210

FCC ID: 2A6P9-AUTOSKYUS

Shenzhen Microtest Co., Ltd.
<http://www.mtitest.com>

Instructions

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TEST RESULT CERTIFICATION	
Applicant's name	Promaster Electronic LLC
Address	25511 Budde Rd, Ste 1602, The Woodlands, Texas, 77380, USA
Manufacturer's Name	Promaster Electronic LLC
Address	25511 Budde Rd, Ste 1602, The Woodlands, Texas, 77380, USA
Product description	
Product name	GPS TRACKER
Trademark	AUTOSKY
Model Name	AVT-200
Serial Model	APT-100, APT-110, APT-120, AVT-210
Standards	FCC CFR 47 Part 22H FCC CFR 47 Part 24E FCC CFR 47 Part 27
Test procedure	484596 D01 Referencing Test Data v01
Date of Test	
Date (s) of performance of tests.....	2022-06-14 ~2022-09-20
Test Result	Pass
This device described above has been tested by Shenzhen Microtest Co., Ltd. and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.	

Testing Engineer : Eugene Qiu
 (Eugene Qiu)

Technical Manager : Leon Chen
 (Leon Chen)

Authorized Signatory : Tom Xue
 (Tom Xue)

1 General description

1.1 Feature of equipment under test (EUT)

Product name:	GPS TRACKER
Trade name:	AVT-200
Model name:	APT-100, APT-110, APT-120, AVT-210
Difference in series models:	All the models are the same circuit and RF module, except the model name and plastic casings.
Hardware version:	G101S-4G_V1.1
Software version:	A101_4G_NM_Apr 22 2022 153027
Power supply:	Input: DC 12V/24V Battery: DC 3.7V 0.55Wh 150mAh
Adapter information:	N/A
EUT serial number:	MTi220225001-01-S0001

1.2 EUT operation mode

During testing, RF test program provided by the manufacture to control the Tx operation followed the test requirement. The EUT is configured to transmit continuously (duty cycle > 98 %) at the maximum power control level.

1.3 Ancillary equipment list

Equipment	Model	S/N	Manufacturer	Certificate type
/	/	/	/	/

2 Test facilities and accreditations

2.1 Test laboratory

Test Laboratory	Shenzhen Microtest Co., Ltd
Location	101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao' an District, Shenzhen, Guangdong, China.
FCC Registration No.:	448573

2.2 Environmental conditions

Temperature:	15°C~35°C
Humidity	20%~75%
Atmospheric pressure	98kPa~101kPa

2.3 Measurement uncertainty

Measurement Uncertainty for a Level of Confidence of 95 %, $U=2 \times U_c(y)$

Radiated emission(30MHz~1GHz)	± 4.2 dB
Radiated emission (above 1GHz)	± 4.3 dB
Temperature	± 1 degree
Humidity	± 5 %

2.4 Test software

Software Name	Manufacturer	Model	Version
GSM/LTE	Shenzhen JS tonscent co., ltd	JS1120-4	2.1.6

3 List of test equipment

Equipment No.	Equipment Name	Manufacturer	Model	Serial No.	Calibration date	Due date
MTI-E043	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2022/05/03	2023/05/02
MTI-E044	TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-1338	2021/05/30	2023/05/29
MTI-E047	Amplifier	Hewlett-Packard	8447F	3113A06150	2022/05/03	2023/05/02
MTI-E089	ESG Vector Signal Generator	Agilent	N5182A	MY49060455	2022/05/03	2023/05/02
MTI-E058	ESG Series Analog Signal Generator	Agilent	E4421B	GB40051240	2022/05/03	2023/05/02
MTI-E062	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2022/05/03	2023/05/02
MTI-E066	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2022/05/03	2023/05/02
MTI-E078	Synthesized Sweeper	Agilent	83752A	3610A01957	2022/05/03	2023/05/02
MTI-E079	DC Power Supply	Agilent	E3632A	MY40027695	2022/05/03	2023/05/02
MTI-E045	Double Ridged Broadband Horn Antenna	schwarzbeck	BBHA 9120D	9120D-2278	2021/05/30	2023/05/29
MTI-E021	EMI Test Receiver	Rohde&schwarz	ESCS30	100210	2022/05/03	2023/05/02
MTI-E022	Pulse Limiter	Schwarzbeck	VSTD 9561-F	00679	2022/05/03	2023/05/02
MTI-E023	Artificial mains network	Schwarzbeck	NSLK 8127	NSLK 8127 #841	2022/05/03	2023/05/02
MTI-E046	Active Loop Antenna	Schwarzbeck	FMZB 1519B	00044	2021/05/30	2023/05/29
MTI-E048	Amplifier	Agilent	8449B	3008A02400	2022/05/03	2023/05/02
MTI-E072	Thermometer Clock Humidity Monitor	-	HTC-1	/	2022/05/03	2023/05/02
MTI-E057	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2022/05/03	2023/05/02
Note: the calibration interval of the above test instruments is 12 or 24 months and the calibrations are traceable to international system unit (SI).						

4 Test Result

4.1 Conduct Power

Please refer to appendix spot check

Conclusion: There is no significant deterioration in the test data compared to the previous module. Meet the requirements of being cited.

----END OF REPORT----

GPRS GMSK Mode				
Channel No.	Maximum output power(avg) [dBm]			
	1TS	2TS	3TS	4TS
128 (824.2MHz)	32.09	31.98	30.06	28.09
190 (836.6MHz)	32.26	32.16	30.25	28.11
251 (848.8MHz)	32.58	32.23	30.81	28.36

EGPRS GMSK Mode				
Channel No.	Maximum output power(avg) [dBm]			
	1TS	2TS	3TS	4TS
128 (824.2MHz)	33.66	32.75	32.41	32.18
190 (836.6MHz)	33.32	32.61	32.23	32.07
251 (848.8MHz)	33.10	32.09	32.04	30.61

EGPRS 8PSK Mode				
Channel No.	Maximum output power(avg) [dBm]			
	1TS	2TS	3TS	4TS
128 (824.2MHz)	29.69	28.81	29.13	28.75
190 (836.6MHz)	30.15	28.78	28.37	28.25
251 (848.8MHz)	29.28	28.63	28.51	28.21

Test Data (1.4MHz bandwidth Mode)					
Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)
18607	1850.7	1	0	QPSK	22.47
		1	2		22.43
		1	5		22.62
		6	0		20.94
		1	0	16QAM	21.18
		1	2		21.41
		1	5		21.53
		6	0		20.37
18900	1880	1	0	QPSK	22.34
		1	2		22.01
		1	5		22.20
		6	0		21.26
		1	0	16QAM	21.52
		1	2		21.24
		1	5		21.42
		6	0		20.20
19193	1909.3	1	0	QPSK	21.70
		1	2		21.51
		1	5		21.51
		6	0		20.84
		1	0	16QAM	21.03
		1	2		20.62
		1	5		20.99
		6	0		20.04

GPRS GMSK Mode				
Channel No.	Maximum output power(avg) [dBm]			
	1TS	2TS	3TS	4TS
512 (1850.2MHz)	29.68	29.66	28.07	26.10
661 (1880.0MHz)	29.30	29.12	27.44	26.23
810 (1909.8MHz)	29.26	29.80	28.09	25.80

EGPRS GMSK Mode				
Channel No.	Maximum output power(avg) [dBm]			
	1TS	2TS	3TS	4TS
512 (1850.2MHz)	30.21	29.82	29.69	29.29
661 (1880.0MHz)	30.42	30.04	30.18	29.74
810 (1909.8MHz)	30.36	29.68	29.13	29.48

EGPRS 8PSK Mode				
Channel No.	Maximum output power(avg) [dBm]			
	1TS	2TS	3TS	4TS
512 (1850.2MHz)	28.85	28.15	28.17	27.93
661 (1880.0MHz)	29.35	28.41	28.17	27.88
810 (1909.8MHz)	29.10	27.81	27.97	27.70

Test Data (3MHz bandwidth Mode)					
Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)
18615	1851.5	1	0	QPSK	22.55
		1	8		22.44
		1	15		22.71
		15	0		21.22
		1	0	16QAM	21.80
		1	8		21.51
		1	15		21.77
		15	0		20.11
18900	1880	1	0	QPSK	22.32
		1	8		22.41
		1	15		22.37
		15	0		20.96
		1	0	16QAM	21.51
		1	8		21.21
		1	15		21.58
		15	0		20.03
19185	1908.5	1	0	QPSK	22.61
		1	8		21.79
		1	15		21.58
		15	0		20.65
		1	0	16QAM	21.92
		1	8		21.14
		1	15		20.52
		15	0		19.98

Test Data (5MHz bandwidth Mode)					
Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)
18625	1852.5	1	0	QPSK	22.56
		1	13		22.39
		1	24		22.71
		25	0		21.10
		1	0	16QAM	21.62
		1	13		21.77
		1	24		21.84
		25	0		19.98
18900	1880	1	0	QPSK	22.69
		1	13		22.38
		1	24		22.36
		25	0		20.88
		1	0	16QAM	21.74
		1	13		21.16
		1	24		21.18
		25	0		20.24
19175	1907.5	1	0	QPSK	22.73
		1	13		22.01
		1	24		21.61
		25	0		20.97
		1	0	16QAM	21.70
		1	13		21.25
		1	24		20.61
		25	0		20.35

Test Data (10MHz bandwidth Mode)					
Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)
18650	1855	1	0	QPSK	22.62
		1	25		22.44
		1	49		22.86
		50	0		21.16
		1	0	16QAM	21.86
		1	25		21.21
		1	49		21.71
		27	0		20.11
18900	1880	1	0	QPSK	22.22
		1	25		22.12
		1	49		22.14
		50	0		20.86
		1	0	16QAM	21.36
		1	25		21.06
		1	49		21.42
		27	0		20.76
19150	1905	1	0	QPSK	22.33
		1	25		22.64
		1	49		21.88
		50	0		21.20
		1	0	16QAM	21.17
		1	25		21.62
		1	49		20.96
		27	0		20.88

Test Data (15MHz bandwidth Mode)					
Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)
18675	1857.5	1	0	QPSK	21.49
		1	38		22.65
		1	74		22.54
		75	0		20.80
		1	0	16QAM	21.38
		1	38		21.49
		1	74		21.64
		27	0		20.16
18900	1880	1	0	QPSK	22.26
		1	38		22.38
		1	74		22.26
		75	0		21.10
		1	0	16QAM	21.77
		1	38		22.15
		1	74		21.50
		27	0		20.95
19125	1902.5	1	0	QPSK	21.65
		1	38		22.32
		1	74		21.80
		75	0		20.94
		1	0	16QAM	21.28
		1	38		22.09
		1	74		21.27
		27	0		21.22

Test Data (20MHz bandwidth Mode)					
Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)
18700	1860	1	0	QPSK	22.66
		1	50		22.75
		1	99		22.43
		100	0		20.97
		1	0	16QAM	21.72
		1	50		21.87
		1	99		21.42
		27	0		20.89
18900	1880	1	0	QPSK	22.46
		1	50		22.12
		1	99		21.97
		100	0		20.61
		1	0	16QAM	21.63
		1	50		21.51
		1	99		21.24
		27	0		21.21
19100	1900	1	0	QPSK	22.09
		1	50		22.36
		1	99		22.22
		100	0		20.73
		1	0	16QAM	21.42
		1	50		21.26
		1	99		21.04
		27	0		20.64

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Test Data (1.4MHz bandwidth Mode)					
Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)
19957	1710.7	1	0	QPSK	22.87
		1	2		22.37
		1	5		22.62
		6	0		21.35
		1	0	16QAM	21.48
		1	2		21.47
		1	5		21.58
		6	0		20.84
20175	1732.5	1	0	QPSK	21.90
		1	2		21.77
		1	5		22.08
		6	0		20.65
		1	0	16QAM	21.12
		1	2		21.02
		1	5		21.03
		6	0		20.08
20393	1754.3	1	0	QPSK	22.43
		1	2		22.48
		1	5		22.61
		6	0		21.96
		1	0	16QAM	22.01
		1	2		22.30
		1	5		22.04
		6	0		20.93

Test Data (3MHz bandwidth Mode)					
Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)
19965	1711.5	1	0	QPSK	22.40
		1	8		22.52
		1	15		22.54
		15	0		21.26
		1	0	16QAM	22.02
		1	8		22.01
		1	15		21.83
		15	0		20.94
20175	1732.5	1	0	QPSK	22.43
		1	8		22.55
		1	15		22.48
		15	0		21.21
		1	0	16QAM	21.90
		1	8		22.10
		1	15		22.39
		15	0		20.64
20385	1753.5	1	0	QPSK	22.93
		1	8		22.62
		1	15		22.67
		15	0		21.64
		1	0	16QAM	21.75
		1	8		22.15
		1	15		21.75
		15	0		21.00

Test Data (5MHz bandwidth Mode)					
Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)
19975	1712.5	1	0	QPSK	22.73
		1	13		22.90
		1	24		22.76
		25	0		21.64
		1	0	16QAM	21.85
		1	13		21.94
		1	24		22.14
		25	0		20.51
20175	1732.5	1	0	QPSK	22.05
		1	13		21.89
		1	24		21.87
		25	0		20.80
		1	0	16QAM	20.87
		1	13		21.09
		1	24		21.18
		25	0		19.83
20375	1752.5	1	0	QPSK	22.63
		1	13		22.75
		1	24		22.89
		25	0		21.77
		1	0	16QAM	21.98
		1	13		21.87
		1	24		21.94
		25	0		20.78

Test Data (10MHz bandwidth Mode)					
Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)
20000	1715	1	0	QPSK	22.71
		1	25		22.68
		1	49		22.24
		50	0		21.64
		1	0	16QAM	21.58
		1	25		22.21
		1	49		21.72
		27	0		21.23
20175	1732.5	1	0	QPSK	22.31
		1	25		21.74
		1	49		22.37
		50	0		20.84
		1	0	16QAM	21.43
		1	25		21.10
		1	49		21.58
		27	0		20.59
20350	1750	1	0	QPSK	22.69
		1	25		22.65
		1	49		22.62
		50	0		21.67
		1	0	16QAM	22.45
		1	25		22.44
		1	49		22.71
		27	0		21.19

Test Data (15MHz bandwidth Mode)					
Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)
20025	1717.5	1	0	QPSK	22.55
		1	38		22.53
		1	74		22.38
		75	0		21.41
		1	0	16QAM	22.35
		1	38		22.14
		1	74		22.14
		27	0		21.50
20175	1732.5	1	0	QPSK	22.30
		1	38		21.82
		1	74		22.21
		75	0		20.88
		1	0	16QAM	21.85
		1	38		21.71
		1	74		22.73
		27	0		21.69
20325	1747.5	1	0	QPSK	22.58
		1	38		22.82
		1	74		22.79
		75	0		21.74
		1	0	16QAM	22.00
		1	38		22.16
		1	74		21.84
		27	0		21.67

Test Data (20MHz bandwidth Mode)					
Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)
20050	1720	1	0	QPSK	22.81
		1	50		21.96
		1	99		22.38
		100	0		20.81
		1	0	16QAM	22.05
		1	50		21.79
		1	99		21.43
		27	0		20.75
20175	1732.5	1	0	QPSK	22.25
		1	50		22.08
		1	99		22.49
		100	0		20.76
		1	0	16QAM	21.44
		1	50		21.11
		1	99		21.97
		27	0		21.06
20300	1745	1	0	QPSK	22.40
		1	50		22.77
		1	99		22.73
		100	0		21.85
		1	0	16QAM	21.63
		1	50		21.93
		1	99		22.32
		27	0		21.06

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Test Data (1.4MHz bandwidth Mode)					
Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)
20407	824.7	1	0	QPSK	22.23
		1	2		22.57
		1	5		22.63
		6	0		21.25
		1	0	16QAM	21.61
		1	2		22.05
		1	5		21.98
		6	0		20.59
20525	836.5	1	0	QPSK	22.26
		1	2		22.30
		1	5		22.30
		6	0		21.59
		1	0	16QAM	21.48
		1	2		21.49
		1	5		21.73
		6	0		20.69
20643	848.3	1	0	QPSK	22.17
		1	2		22.03
		1	5		21.96
		6	0		20.98
		1	0	16QAM	21.04
		1	2		21.00
		1	5		20.93
		6	0		20.45

Test Data (3MHz bandwidth Mode)					
Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)
20415	825.5	1	0	QPSK	22.79
		1	8		22.68
		1	15		22.80
		15	0		21.37
		1	0	16QAM	21.55
		1	8		21.64
		1	15		21.81
		15	0		21.86
20525	836.5	1	0	QPSK	22.10
		1	8		22.37
		1	15		22.44
		15	0		21.28
		1	0	16QAM	21.78
		1	8		21.65
		1	15		21.35
		15	0		20.74
20635	847.5	1	0	QPSK	21.85
		1	8		21.93
		1	15		21.63
		15	0		21.06
		1	0	16QAM	21.52
		1	8		21.98
		1	15		21.78
		15	0		20.41

Test Data (5MHz bandwidth Mode)					
Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)
20425	826.5	1	0	QPSK	22.74
		1	13		22.67
		1	24		22.45
		25	0		21.76
		1	0	16QAM	22.12
		1	13		21.85
		1	24		21.76
		25	0		20.46
20525	836.5	1	0	QPSK	22.25
		1	13		22.51
		1	24		22.27
		25	0		21.18
		1	0	16QAM	21.47
		1	13		21.24
		1	24		21.46
		25	0		20.32
20625	846.5	1	0	QPSK	22.23
		1	13		22.20
		1	24		22.20
		25	0		21.15
		1	0	16QAM	21.76
		1	13		21.28
		1	24		21.52
		25	0		20.35

Test Data (10MHz bandwidth Mode)					
Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)
20450	829	1	0	QPSK	22.57
		1	25		22.76
		1	49		22.40
		50	0		21.20
		1	0	16QAM	22.26
		1	25		22.22
		1	49		21.95
		27	0		21.19
20525	836.5	1	0	QPSK	22.51
		1	25		22.48
		1	49		22.19
		50	0		21.09
		1	0	16QAM	21.91
		1	25		21.43
		1	49		21.39
		27	0		21.36
20600	844	1	0	QPSK	22.19
		1	25		22.19
		1	49		22.50
		50	0		20.93
		1	0	16QAM	21.46
		1	25		21.28
		1	49		21.25
		27	0		20.70

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Test Data (1.4MHz bandwidth Mode)					
Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)
131979	1710.7	1	0	QPSK	22.79
		1	2		22.53
		1	5		22.79
		6	0		21.77
		1	0	16QAM	22.10
		1	2		21.84
		1	5		22.04
		6	0		21.13
132322	1745	1	0	QPSK	22.88
		1	2		22.79
		1	5		22.74
		6	0		21.93
		1	0	16QAM	21.77
		1	2		22.04
		1	5		22.15
		6	0		21.12
132665	1779.3	1	0	QPSK	23.11
		1	2		22.97
		1	5		22.97
		6	0		22.43
		1	0	16QAM	22.50
		1	2		22.38
		1	5		22.69
		6	0		21.38

Test Data (3MHz bandwidth Mode)					
Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)
131987	1711.5	1	0	QPSK	22.84
		1	8		23.10
		1	15		22.64
		15	0		21.66
		1	0	16QAM	22.58
		1	8		22.76
		1	15		22.73
		15	0		20.95
132322	1745	1	0	QPSK	22.73
		1	8		22.80
		1	15		22.70
		15	0		21.51
		1	0	16QAM	21.61
		1	8		21.98
		1	15		21.70
		15	0		20.76
132657	1778.5	1	0	QPSK	22.49
		1	8		23.17
		1	15		22.79
		15	0		21.76
		1	0	16QAM	22.10
		1	8		22.50
		1	15		22.63
		15	0		21.37

Test Data (5MHz bandwidth Mode)					
Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)
131997	1712.5	1	0	QPSK	23.03
		1	13		23.40
		1	24		23.15
		25	0		22.21
		1	0	16QAM	22.73
		1	13		22.70
		1	24		22.83
		25	0		21.12
132322	1745	1	0	QPSK	22.57
		1	13		22.94
		1	24		22.81
		25	0		21.61
		1	0	16QAM	21.81
		1	13		21.93
		1	24		22.24
		25	0		21.22
132647	1777.5	1	0	QPSK	22.59
		1	13		22.72
		1	24		23.36
		25	0		22.12
		1	0	16QAM	21.91
		1	13		22.16
		1	24		22.94
		25	0		20.88

Test Data (10MHz bandwidth Mode)					
Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)
132022	1715	1	0	QPSK	23.25
		1	25		23.23
		1	49		22.75
		50	0		22.16
		1	0	16QAM	22.98
		1	25		23.05
		1	49		22.66
		27	0		21.62
132322	1745	1	0	QPSK	22.92
		1	25		23.03
		1	49		23.11
		50	0		21.78
		1	0	16QAM	22.50
		1	25		22.04
		1	49		22.06
		27	0		21.56
132622	1775	1	0	QPSK	22.61
		1	25		22.80
		1	49		23.15
		50	0		21.75
		1	0	16QAM	22.07
		1	25		21.81
		1	49		22.38
		27	0		21.55

Test Data (15MHz bandwidth Mode)					
Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)
132047	1717.5	1	0	QPSK	22.88
		1	38		23.13
		1	74		22.36
		75	0		21.50
		1	0	16QAM	22.28
		1	38		22.68
		1	74		22.28
		27	0		21.68
132322	1745	1	0	QPSK	22.74
		1	38		22.91
		1	74		23.22
		75	0		21.62
		1	0	16QAM	22.12
		1	38		22.68
		1	74		23.20
		27	0		21.57
132597	1772.5	1	0	QPSK	22.44
		1	38		22.47
		1	74		22.91
		75	0		21.96
		1	0	16QAM	21.81
		1	38		21.45
		1	74		22.65
		27	0		20.87

Test Data (20MHz bandwidth Mode)					
Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power (dBm)
132072	1720	1	0	QPSK	22.95
		1	50		22.33
		1	99		22.42
		100	0		21.16
		1	0	16QAM	22.23
		1	50		22.08
		1	99		21.44
		27	0		21.41
132322	1745	1	0	QPSK	22.71
		1	50		22.98
		1	99		23.53
		100	0		21.77
		1	0	16QAM	21.51
		1	50		21.99
		1	99		22.87
		27	0		21.75
132572	1770	1	0	QPSK	22.25
		1	50		22.54
		1	99		23.11
		100	0		21.86
		1	0	16QAM	22.08
		1	50		22.49
		1	99		22.76
		27	0		21.51