

Prüfbericht - Nr.: 14029434 001

Test Report No.:

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Auftraggeber: Flat Planet Limited
Client: Room 1407, Rightful Centre
11-12 Tak Hing Street
Kowloon
Hong Kong

Gegenstand der Prüfung: Bluetooth Handset
Test Item:

Bezeichnung: EL01BT **Serien-Nr.:** Engineering sample
Identification: Serial No.:

Wareneingangs-Nr.: 00120403222-004 **Eingangsdatum:** 03.04.2012
Receipt No.: *Date of Receipt:*

Zustand des Prüfgegenstandes bei Anlieferung: Test samples received are sufficient for testing
Condition of test item at delivery: and not damaged.

Prüfort: Shenzhen EMTEK Co., Ltd.
Testing Location: Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Gunagdong 518052, P.R. China
TÜV Rheinland Hong Kong Ltd.
8/F., First Group Centre, 14 Wang Tai Road, Kowloon Bay, Kowloon, Hong Kong

Prüfgrundlage: FCC Part 15 Subpart C
Test Specification: ANSI C63.4-2003
CISPR 22:1997

Prüfergebnis: Das vorstehend beschriebene Gerät wurde geprüft und entspricht oben
Test Results: genannter Prüfgrundlage.
The above mentioned product was tested and **passed**.

Prüflaboratorium: TÜV Rheinland Hong Kong Ltd.
Testing Laboratory: 8-10/F., Goldin Financial Global Square, 7 Wang Tai Road, Kowloon Bay, Kowloon, Hong Kong

geprüft/ tested by: **kontrolliert/ reviewed by:**

04.06.2012

Mika Chan
Senior Project Engineer

04.06.2012

Sharon Li
Section Manager

Datum
Date

Name/Stellung
Name/Position

Unterschrift
Signature

Datum
Date

Name/Stellung
Name/Position

Unterschrift
Signature

Sonstiges:
Other Aspects

FCCID: FRO-EL01BT

Abkürzungen: P(pass) = entspricht Prüfgrundlage
F(fail) = entspricht nicht Prüfgrundlage
N/A = nicht anwendbar
N/T = nicht getestet

Abbreviations: P(pass) = passed
F(fail) = failed
N/A = not applicable
N/T = not tested

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.
This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

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Product information

Manufacturers declarations

	Transceiver
Operating frequency range	2402 - 2480 MHz
Type of modulation	FHSS modulation
Number of channels	79
Channel separation	1 MHz
Type of antenna	PIFA
Antenna gain (dBi)	0
Power level	fix
Type of equipment	stand alone, plug-in radio device
Connection to public utility power line	No
Nominal voltage	V_{nor} : 3.7 V
Independent Operation Modes	Page scan Inquiry scan Connection state - ACL Link Connection state - SCO Link

Product function and intended use

The test item is a Bluetooth Headset based on the Bluetooth technology. Bluetooth is a short-range radio link intended to be a cable replacement between portable and/or fixed electronic devices. Bluetooth operates in the unlicensed ISM Band at 2.4 GHz. In the US a band of 83.5 MHz width is available. In this band, 79 RF channels spaced 1 MHz apart are defined. The channel is represented by a pseudo-random hopping sequence through the 79 channels. The channel is divided into time slots, with a nominal slot length of 625 µs, where each slot corresponds to different RF hop frequencies. The nominal hop rate is 1600 hops/s. The symbol rate on the channel is 1 Ms/s. The USB connector is for charging only, no data exchange supported.

Submitted documents

Circuit Diagram
Block Diagram
Bill of material
User manual

Special accessories and auxiliary equipment

The product has been tested together with the following additional accessory:

IBM Laptop Computer
Model: T40
SN: TZ04C57204a

AC/DC Adapter
Model: 08K8202
Input: 100-240VAC, 1.5-0.9A
Output: 16VDC, 4.5A

List of Test and Measurement Instruments

Shenzhen EMTEK Co., Ltd. (Registration number: 709623)

Equipment used	Manufacturer	Model No.	S/N	Due Date
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	29-May-13
Pre-Amplifier	HP	8447D	2944A07999	29-May-13
Bilog Antenna	Schwarzbeck	VULB9163	142	29-May-13
Loop Antenna	Schwarzbeck	FMZB 1519	012	29-May-13
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170399	29-May-13
Horn Antenna	Schwarzbeck	BBHA 9120	D143	29-May-13
Cable	Schwarzbeck	AK9513	ACRX1	29-May-13
Cable	Rosenberger	N/A	FP2RX2	29-May-13
Cable	Schwarzbeck	AK9513	CRPX1	29-May-13
Cable	Schwarzbeck	AK9513	CRRX2	29-May-13
Pre-Amplifier	A.H.	PAM-0126	1415261	29-May-13

Results FCC Part 15 – Subpart C

Subclause 15.203 – Antenna Information		Pass
Requirement:	No antenna other than that furnished by the responsible party shall be used with the device	
Results:	Permanent attached antenna	
Verdict:	Pass	

Subclause 15.204 – Antenna Information		Pass
Requirement:	Provide information for every antenna proposed for the use with the EUT	
Results:	a) Antenna type: PIFA b) Manufacturer and model no: N.A. c) Gain with reference to an isotropic radiator: 0dBi	
Verdict:	Pass	

Subclause 15.207 – Disturbance Voltage on AC Mains							Pass
Test Port: Laptop Computer AC Adaptor							
Applied voltage: 110VAC							
Adaptor Model: 08K8202							
Mode of operation: Charging + BT operating mode.							
Live measurement							
Frequency range (MHz)	Frequency (MHz)	Quasi-peak dB μ V	Average dB μ V	Limit QP (dB μ V)	Limit AV (dB μ V)	Verdict	
0,15 – 0,5	0.186	57.0	40.2	66 - 56	56 - 46	Pass	
> 0,5 - 5	No peak found	---	---	56	46	Pass	
> 5 - 30	No peak found	---	---	60	50	Pass	
Neutral measurement							
Frequency range (MHz)	Frequency (MHz)	Quasi-peak dB μ V	Average dB μ V	Limit QP (dB μ V)	Limit AV (dB μ V)	Verdict	
0,15 – 0,5	0.186	54.0	32.0	66 - 56	56 - 46	Pass	
> 0,5 - 5	No peak found	---	---	56	46	Pass	
> 5 - 30	No peak found	---	---	60	50	Pass	
Results:	The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150kHz to 30MHz does not exceed the limits. For test Results plots refer to Appendix 1, page 2-3.						

Subclause 15.247 (a)(1) – Carrier Frequency Separation		Pass
Requirement: Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25kHz or the 2/3*20dB bandwidth of the hopping channel, whichever is greater.		
Test Specification	: FCC Part 15 Subpart A – Subclause 15.31	
Mode of operation	: Tx mode (hopping on), GFSK	
Port of testing	: Temporary antenna port	
Detector	: Peak	
RBW/VBW	: 100 kHz / 300 kHz	
Supply voltage	: 3.7VDC from DC power supply	
Temperature	: 23°C	
Humidity	: 50%	
Results:	Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and packet types. The centre frequencies of the hopping channels are separated by more than the 2/3*20dB bandwidth. For test Results plots refer to Appendix 1, page 4.	
Verdict:	Pass	

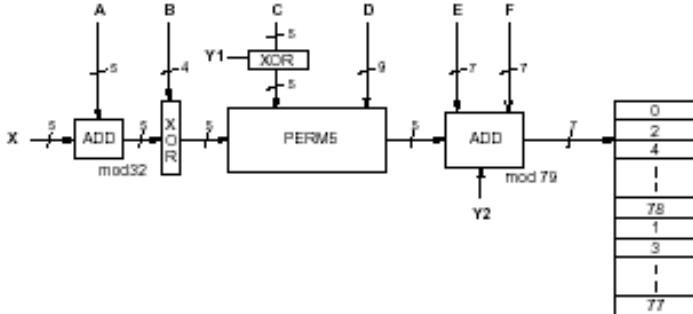
Subclause 15.247 (a)(1)(iii) – Number of hopping channels		Pass
Requirement: Frequency hopping systems operating in the 2400MHz-2483.5MHz bands shall use at least 15 hopping frequencies.		
Test Specification	: FCC Part 15 Subpart A – Subclause 15.31	
Mode of operation	: Tx mode (hopping on), GFSK	
Port of testing	: Temporary antenna port	
Detector	: Peak	
RBW/VBW	: 1 MHz / 3 MHz	
Supply voltage	: 3.7VDC from DC power supply	
Temperature	: 23°C	
Humidity	: 50%	
Results:	The total number of hopping frequencies is more than 15. For test Results plots refer to Appendix 1, page 5.	
Verdict:	Pass	

Subclause 15.247 (a)(1)(iii) – Time of Occupancy (Dwell Time)		Pass
Requirement: Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.		
Test Specification	: FCC Part 15 Subpart A – Subclause 15.31	
Mode of operation	: Tx mode (hopping on), DH5 packet	
Port of testing	: Temporary antenna port	
Detector	: Peak	
RBW/VBW	: 1 MHz / 3 MHz	
Supply voltage	: 3.7VDC from DC power supply	
Temperature	: 23°C	
Humidity	: 50%	
Results: Time period calculation = $0.4 \times 79 = 31.6\text{s}$ $\text{Dwell time} = 64 \times 2.904 \times 10^{-3} = 185.9 \times 10^{-3}$ $\leq 400 \times 10^{-3} \text{ s}$		
For test protocols please refer to Appendix 1, page 6.		
Verdict:	Pass	

Subclause 15.247 (a) – 20 dB Bandwidth		Pass
Requirement: Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25kHz or the 2/3*20dB bandwidth of the hopping channel, whichever is greater.		
Test Specification	: FCC Part 15 Subpart A – Subclause 15.31	
Mode of operation	: Tx mode (2402MHz, 2441MHz, 2480MHz), (GFSK)	
Port of testing	: Temporary antenna port	
Detector	: Peak	
RBW/VBW	: 30 kHz / 100 kHz	
Supply voltage	: 3.7VDC from DC power supply	
Temperature	: 23°C	
Humidity	: 50%	
Results: Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and packet types.		
For test protocols refer to Appendix 1, page 7-8.		

GFSK Modulation

Frequency (MHz)	20 dB left (MHz)	20 dB right (MHz)	20dB bandwidth (MHz)
2402	0.456	0.486	0.948
2441	0.468	0.480	0.948
2480	0.480	0.486	0.966

Subclause 15.247 (a) – Hopping Sequence	Pass									
Requirement: The hopping sequence is generated and provided with an example.										
Hopping sequence										
<p>The channel is represented by a pseudo-random hopping sequence hopping through the 79 RF channels. The hopping sequence is unique for the piconet and is determined by the Bluetooth device address of the master. The X input determines the phase in the 32-hop segment, whereas Y1 and Y2 selects between master-to-slave and slave-to-master transmission. The inputs A to D determine the ordering within the segment, the inputs E and F determine the mapping onto the hop frequencies.</p>  <table border="1"> <tr><td>0</td></tr> <tr><td>2</td></tr> <tr><td>4</td></tr> <tr><td>1</td></tr> <tr><td>78</td></tr> <tr><td>1</td></tr> <tr><td>3</td></tr> <tr><td>1</td></tr> <tr><td>77</td></tr> </table>		0	2	4	1	78	1	3	1	77
0										
2										
4										
1										
78										
1										
3										
1										
77										

Example data:

Hop sequence {k} for CONNECTION STATE:

CLK start: 0x00000010

ULAP: 0x00000000

#ticks: 00 02 | 04 06 | 08 0a | 0c 0e | 10 12 | 14 16 | 18 1a | 1c 1e |

0x00000010:	08 66	10 70	12 19	14 23	16 01	18 05	20 33	22 37	
0x00000030:	24 03	26 07	28 35	30 39	32 72	34 76	36 25	38 29	
0x00000050:	40 74	42 78	44 27	46 31	48 09	50 13	52 41	54 45	
0x00000070:	56 11	58 15	60 43	62 47	32 17	36 19	34 49	38 51	
0x00000090:	40 21	44 23	42 53	46 55	48 33	52 35	50 65	54 67	
0x00000b0:	56 37	60 39	58 69	62 71	64 25	68 27	66 57	70 59	
0x00000d0:	72 29	76 31	74 61	78 63	01 41	05 43	03 73	07 75	
0x00000f0:	09 45	13 47	11 77	15 00	64 49	66 53	68 02	70 06	
0x00000110:	01 51	03 55	05 04	07 08	72 57	74 61	76 10	78 14	
0x00000130:	09 59	11 63	13 12	15 16	17 65	19 69	21 18	23 22	
0x00000150:	33 67	35 71	37 20	39 24	25 73	27 77	29 26	31 30	
0x00000170:	41 75	43 00	45 28	47 32	17 02	21 04	19 34	23 36	
0x00000190:	33 06	37 08	35 38	39 40	25 10	29 12	27 42	31 44	
0x000001b0:	41 14	45 16	43 46	47 48	49 18	53 20	51 50	55 52	
0x000001d0:	65 22	69 24	67 54	71 56	57 26	61 28	59 58	63 60	
0x000001f0:	73 30	77 32	75 62	00 64	49 34	51 42	57 66	59 74	
0x00000210:	53 36	55 44	61 68	63 76	65 50	67 58	73 03	75 11	
0x00000230:	69 52	71 60	77 05	00 13	02 38	04 46	10 70	12 78	
0x00000250:	06 40	08 48	14 72	16 01	18 54	20 62	26 07	28 15	
0x00000270:	22 56	24 64	30 09	32 17	02 66	06 74	10 19	14 27	
0x00000290:	04 70	08 78	12 23	16 31	18 03	22 11	26 35	30 43	
0x000002b0:	20 07	24 15	28 39	32 47	34 68	38 76	42 21	46 29	
0x000002d0:	36 72	40 01	44 25	48 33	50 05	54 13	58 37	62 45	
0x000002f0:	52 09	56 17	60 41	64 49	34 19	36 35	50 51	52 67	
0x00000310:	38 21	40 37	54 53	56 69	42 27	44 43	58 59	60 75	
0x00000330:	46 29	48 45	62 61	64 77	66 23	68 39	03 55	05 71	
0x00000350:	70 25	72 41	07 57	09 73	74 31	76 47	11 63	13 00	
0x00000370:	78 33	01 49	15 65	17 02	66 51	70 67	03 04	07 20	
0x00000390:	68 55	72 71	05 08	09 24	74 59	78 75	11 12	15 28	
0x000003b0:	76 63	01 00	13 16	17 32	19 53	23 69	35 06	39 22	
0x000003d0:	21 57	25 73	37 10	41 26	27 61	31 77	43 14	47 30	
0x000003f0:	29 65	33 02	45 18	49 34	19 04	21 08	23 20	25 24	

Subclause 15.247 (a) – Equal Hopping Frequency Use Pass

Requirement: Each of the transmitter's hopping channels is used equally on average.

Equal hopping frequency use

The EUT complies with the Bluetooth RF specifications. For details refer to the Bluetooth standard.

Subclause 15.247 (a) – Receiver Input Bandwidth Pass

Requirement: The associated receiver(s) complies with the requirement that its input bandwidth matches the bandwidth of the transmitted signal.

Receiver input bandwidth

The receiver bandwidth is equal to the receiver bandwidth in the 79 hopping channel mode, which is 1 MHz. The receiver bandwidth was verified during Bluetooth RF conformance testing.

Subclause 15.247 (a) – Receiver Hopping Capability	Pass
Requirement: The associated receiver has the ability to shift frequencies in synchronisation with the transmitted signals.	
Receiver hopping Capability The EUT complies with the Bluetooth RF specifications. For details refer to the Bluetooth standard.	

Subclause 15.247 (b)(1) – Peak Output Power	Pass				
Test Specification : FCC Part 15 Subpart A – Subclause 15.31 Mode of operation : Tx mode (2402MHz, 2441MHz, 2480MHz) Port of testing : Temporary antenna port Detector : Peak RBW/VBW : 3 MHz / 10 MHz Supply voltage : 3.7VDC from DC power supply Temperature : 23°C Humidity : 50%					
Requirement:	For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 Watt. For all other frequency hopping systems in the 2400 – 2483.5 MHz band: 0.125 Watts.				
Results:	For test protocols please refer to Appendix 1, page 9-10.				
GFSK Modulation					
Frequency (MHz)	Maximum peak output power (dBm)	Cable attenuation (dB)	Output power (dBm)	Limit (W/dBm)	Verdict
2402	-1.78	0	-1.780	0.125 / 21.0	Pass
2441	-0.74	0	-0.740	0.125 / 21.0	Pass
2480	-0.01	0	-0.010	0.125 / 21.0	Pass

Subclause 15.247 (d) – Band edge compliance of conducted emissions		Pass
Test Specification	: FCC Part 15 Subpart A – Subclause 15.31	
Mode of operation	: Tx mode (2402MHz, 2480MHz), GFSK	
Port of testing	: Temporary antenna port	
Detector	: Peak	
RBW/VBW	: 100 kHz / 300 kHz	
Supply voltage	: 3.7VDC from DC power supply	
Temperature	: 23°C	
Humidity	: 50%	
Requirement:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.	
Results:	<p>Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and packet types.</p> <p>There is no peak found outside any 100 kHz bandwidth of the operating frequency band. For test protocols refer to Appendix 1, page 11-12.</p>	

Subclause 15.205 – Band edge compliance of radiated emissions		Pass
Test Specification	: FCC Part 15 Subpart A – Subclause 15.31	
Mode of operation	: Tx mode (2402MHz, 2480MHz), GFSK	
Port of testing	: Temporary antenna port	
Detector	: Peak	
RBW/VBW	: 1 MHz / 3 MHz	
Supply voltage	: 3.7VDC from DC power supply	
Temperature	: 23°C	
Humidity	: 50%	
Requirement:	Radiated emissions which fall in the restricted bands, as defined in 15.205 (a), must also comply with the radiated emission limits specified in 15.209(a).	
Results:	There is no peak found in the restricted bands. For test protocols refer to Appendix 1, page 13-16.	

Subclause 15.247 (d) – Spurious Conducted Emissions		Pass			
Test Specification	: FCC Part 15 Subpart A – Subclause 15.31				
Mode of operation	: Tx mode (2402MHz, 2441MHz, 2480MHz), GFSK				
Port of testing	: Temporary antenna port				
Detector	: Peak				
RBW/VBW	: 100 kHz / 300 kHz				
Supply voltage	: 3.7VDC from DC power supply				
Temperature	: 23 °C				
Humidity	: 50 %				
Requirement:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.				
Results:	<p>Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and packet types.</p> <p>There is no peak found outside any 100kHz bandwidth of the operating frequency band in the three transmit frequency. All three transmit frequency modes comply with the limit stated in subclause 15.247(d). For test protocols refer to Appendix 1, page 17-18.</p>				
Operating frequency (MHz)	Spurious frequency (MHz)	Spurious Level (dBm)	Reference value (dBm)	Delta (dB)	Verdict
2402	4800.00	-47.04	-2.48	-44.56	Pass
2441	4850.00	-45.91	-1.64	-44.27	Pass
2480	4950.00	-51.48	-0.73	-50.75	Pass

Subclause 15.247 (c) – Spurious Radiated Emissions		Pass
Test Specification	: ANSI C63.4 – 2003	
Mode of operation	: Tx mode (2402MHz, 2441MHz, 2480MHz), GFSK	
Port of testing	: Enclosure	
Detector	: Peak	
RBW/VBW	: 100 kHz / 300 kHz for f < 1 GHz 1 MHz / 3 MHz for f > 1 GHz	
Supply voltage	: internal batteries has been activated	
Temperature	: 23°C	
Humidity	: 50%	
Requirement:	In any 100kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in section 15.205(a), must also comply with the radiated emission limits specified in section 15.205(c).	
Results:	<p>Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and packet types.</p> <p>All three transmit frequency modes comply with the field strength within the restricted bands. There is no spurious found below 30MHz.</p>	
Tx frequency 2402MHz	Vertical Polarization	
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
56.4263	17.86	40 / QP
103.0610	16.08	43.5 / QP
297.3718	18.98	46 / QP
354.8878	19.07	46 / QP
572.5160	25.68	46 / QP
1027.244	45.19	74.0 / P
1027.244	27.23	54.0 / AV
4786.859	60.10	74.0 / P
4786.859	42.13	54.0 / AV
Tx frequency 2402MHz	Horizontal Polarization	
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
241.4103	38.39	46 / QP
297.3718	31.85	46 / QP
365.7692	24.00	46 / QP
704.6473	24.15	46 / QP
1245.192	42.79	74.0 / P
1245.192	35.81	54.0 / AV
4786.859	53.25	74.0 / P
4786.859	35.63	54.0 / AV
Tx frequency 2441MHz	Vertical Polarization	
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
54.8718	15.27	40 / QP
118.6058	16.11	43.5 / QP

249.1827	16.49	46 / QP
357.9968	20.18	46 / QP
572.5160	27.05	46 / QP
4868.590	57.22	74.0 / P
4868.590	39.23	54.0 / AV
Tx frequency 2441MHz		Horizontal Polarization
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
59.5353	16.50	40 / QP
104.6154	17.67	43.5 / QP
241.4103	36.85	46 / QP
311.3622	33.26	46 / QP
361.1058	24.77	46 / QP
4868.590	52.99	74.0 / P
4868.590	35.63	54.0 / AV
Tx frequency 2480MHz		Vertical Polarization
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
47.0994	16.14	40 / QP
104.6154	16.74	43.5 / QP
266.2821	18.29	46 / QP
570.9615	27.14	46 / QP
696.8750	27.29	46 / QP
4950.320	56.48	74.0 / P
4950.320	38.65	54.0 / AV
Tx frequency 2480MHz		Horizontal Polarization
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
36.2180	15.66	40 / QP
99.9520	17.53	43.5 / QP
244.5192	37.56	46 / QP
357.9968	25.04	46 / QP
410.8493	21.23	46 / QP
720.1923	24.43	46 / QP
4950.320	53.23	74.0 / P
4950.320	35.75	54.0 / AV