

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051921\
 Data File : VL037012.D
 Acq On : 20 May 2021 4:20
 Operator : SY/AP
 Sample : M2424-02DL 40X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-05DL

Quant Time: May 20 06:36:12 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	987135	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.14	114	2934927	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.05	117	2619063	10.00	ppbv	-0.01

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.38	95	1958701	9.96	ppbv	-0.01	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%	

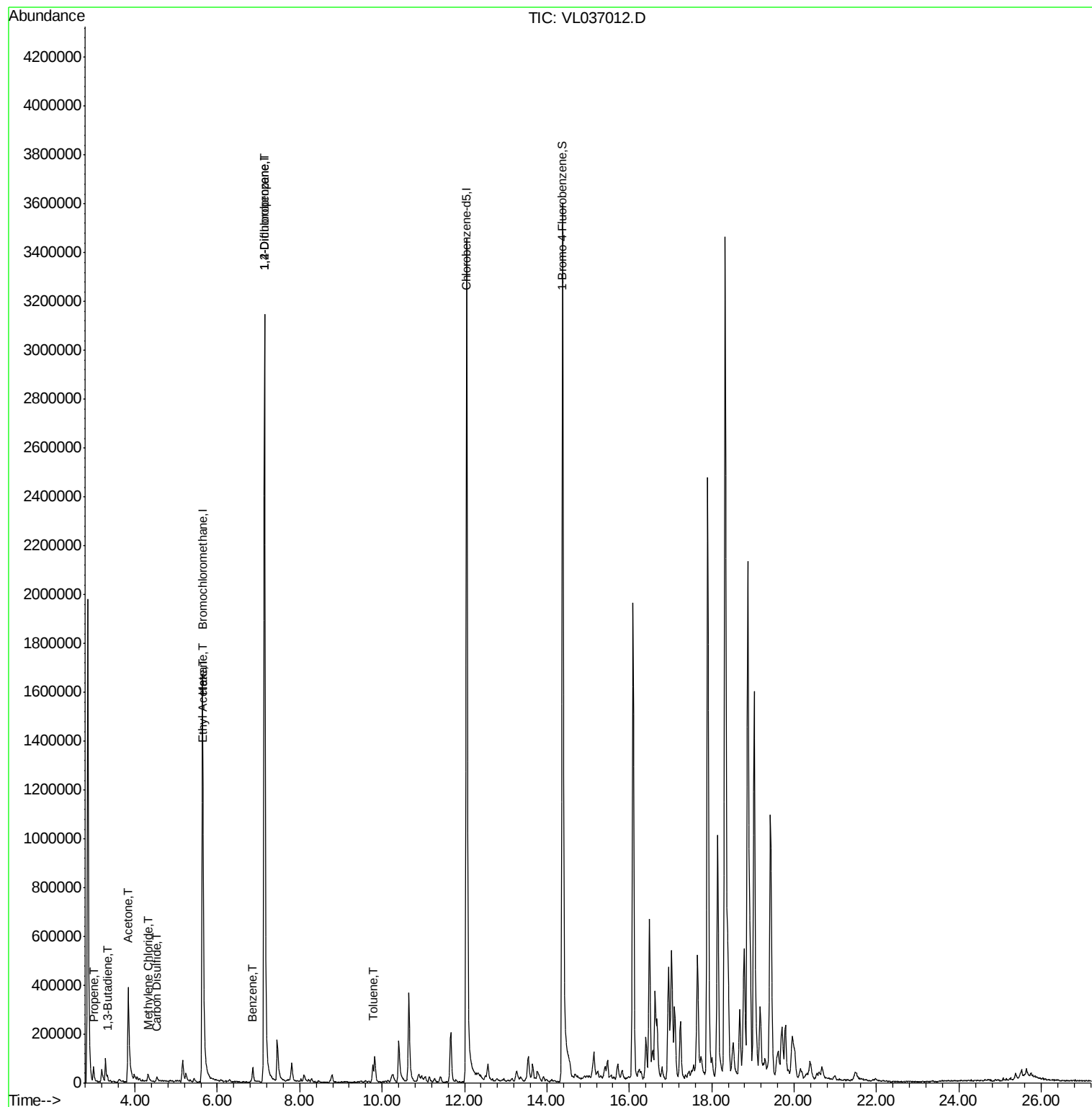
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	2.99	41	29685	0.458	ppbv	99
15) Acetone	3.84	43	650230	6.431	ppbv	96
16) 1,3-Butadiene	3.33	39	6327	0.101	ppbv #	10
20) Methylene Chloride	4.32	84	5315	0.098	ppbv #	80
25) Ethyl Acetate	5.66	43	20742	0.085	ppbv #	80
26) Hexane	5.66	57	3904	0.031	ppbv #	1
27) Carbon Disulfide	4.53	76	13150	0.105	ppbv #	38
36) Benzene	6.85	78	28805	0.114	ppbv	97
39) 1,2-Dichloropropane	7.14	63	683120	7.015	ppbv #	25
53) Toluene	9.77	91	22828	0.076	ppbv #	19

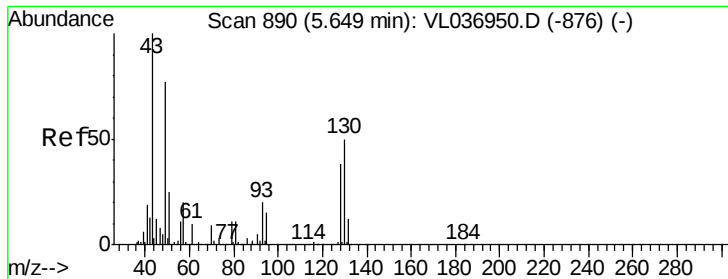
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 887

Delta R.T. -0.01 min

Lab File: VL037012.D

Acq: 20 May 2021 4:20

Instrument :

MSVOA_L

ClientSampleId :

KSV-05DL

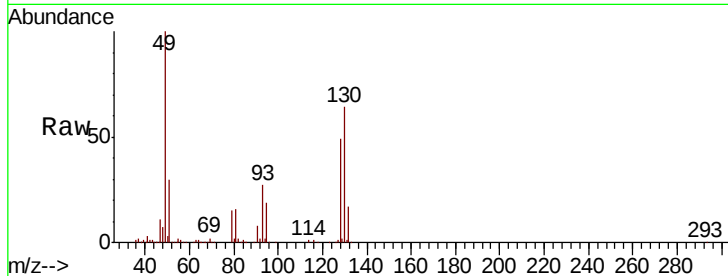
Tot Ion: 49 Resp: 987135

Ion Ratio Lower Upper

49 100

128 53.8 26.9 80.7

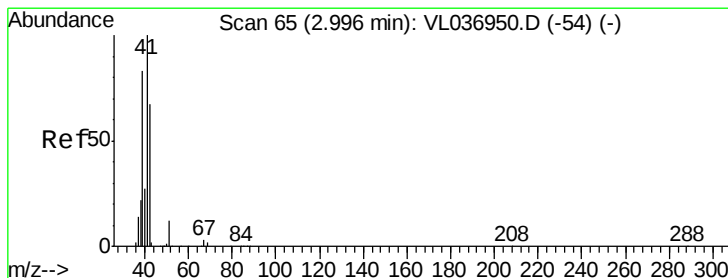
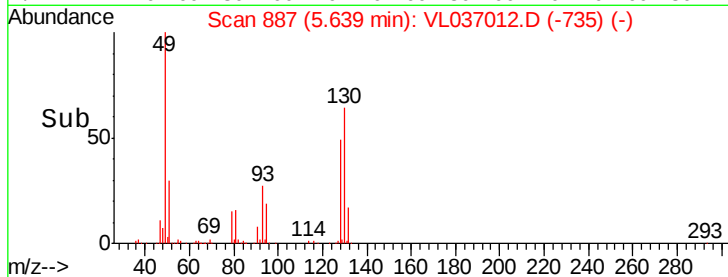
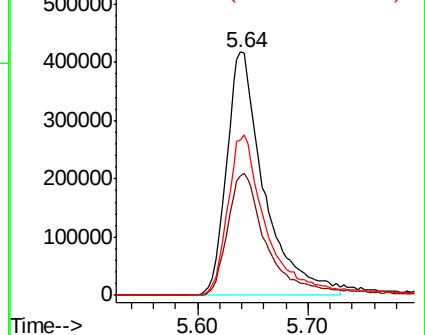
130 70.3 33.8 101.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#9

Propene

Concen: 0.458 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.00 min

Lab File: VL037012.D

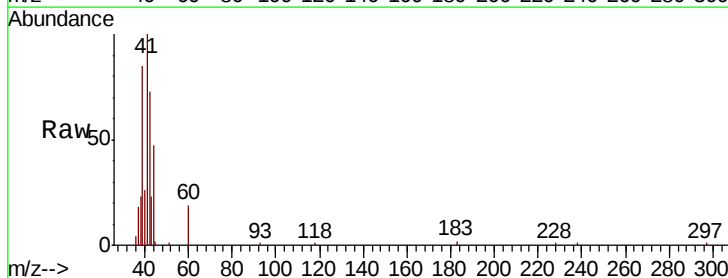
Acq: 20 May 2021 4:20

Tgt Ion: 41 Resp: 29685

Ion Ratio Lower Upper

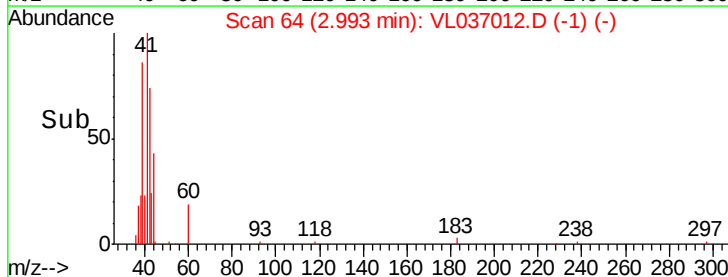
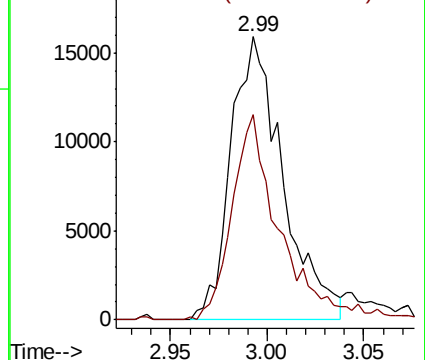
41 100

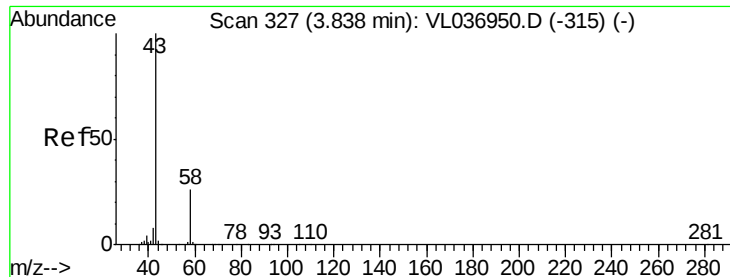
42 66.6 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#15

Acetone

Concen: 6.431 ppbv

RT: 3.84 min Scan# 326

Delta R.T. -0.00 min

Lab File: VL037012.D

Acq: 20 May 2021 4:20

Instrument :

MSVOA_L

ClientSampled :

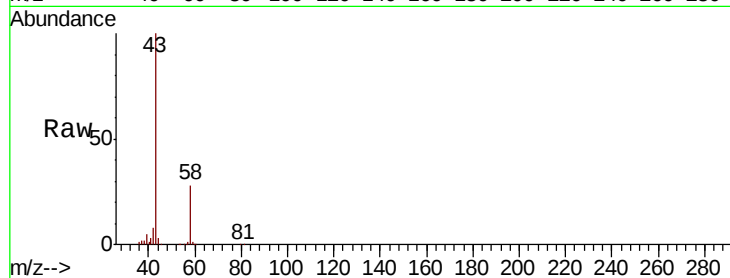
KSV-05DL

Tot Ion: 43 Resp: 650230

Ion Ratio Lower Upper

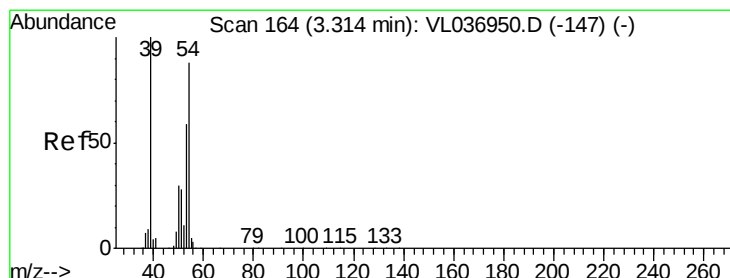
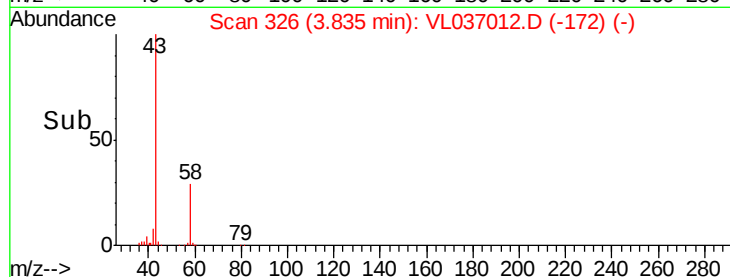
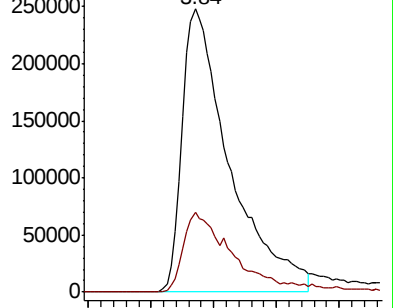
43 100

58 31.9 24.0 36.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.101 ppbv

RT: 3.33 min Scan# 168

Delta R.T. 0.01 min

Lab File: VL037012.D

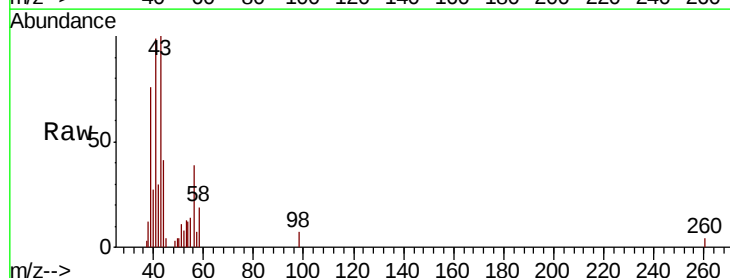
Acq: 20 May 2021 4:20

Tgt Ion: 39 Resp: 6327

Ion Ratio Lower Upper

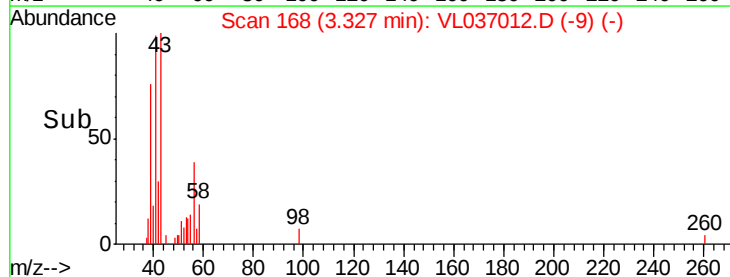
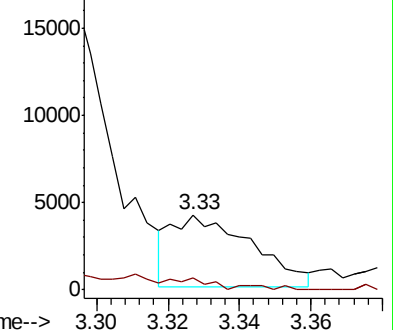
39 100

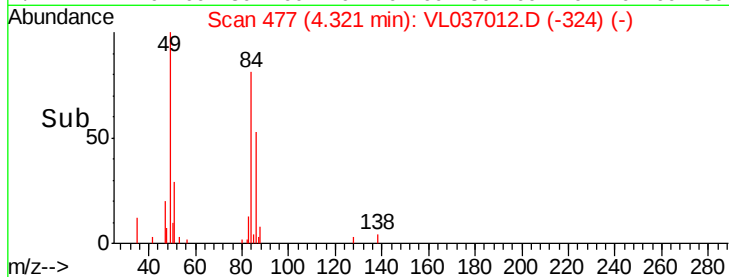
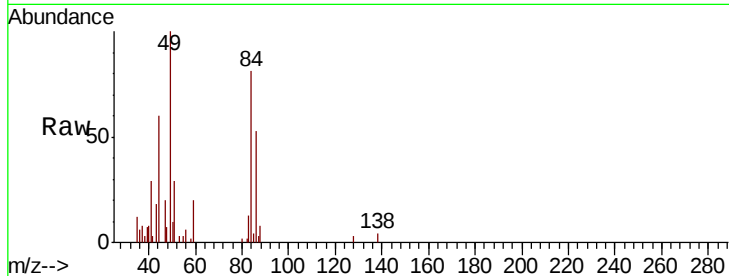
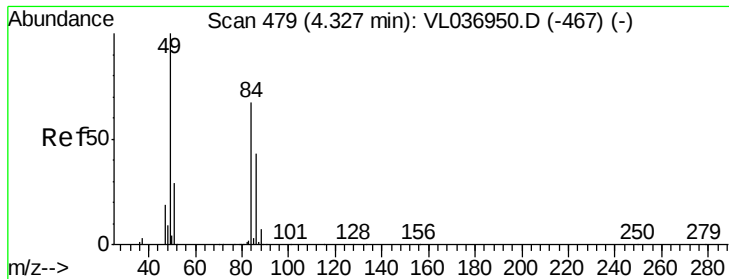
54 0.0 63.2 94.8#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

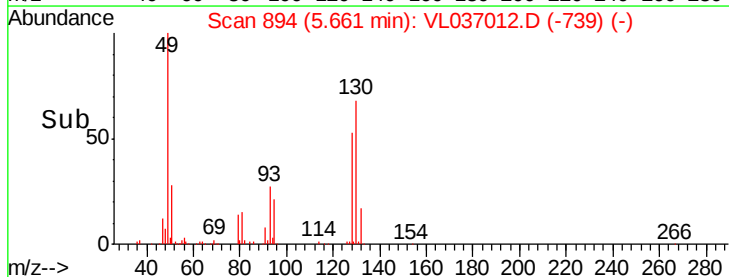
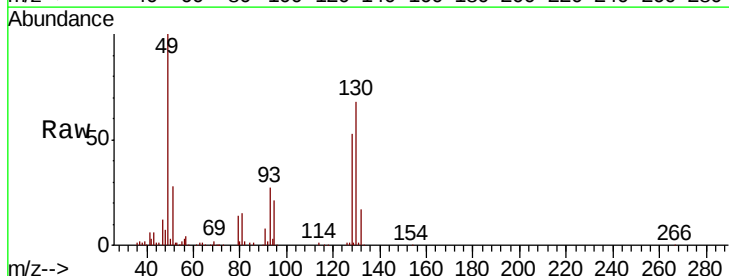
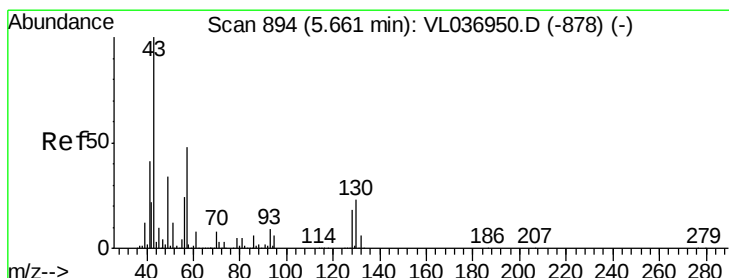
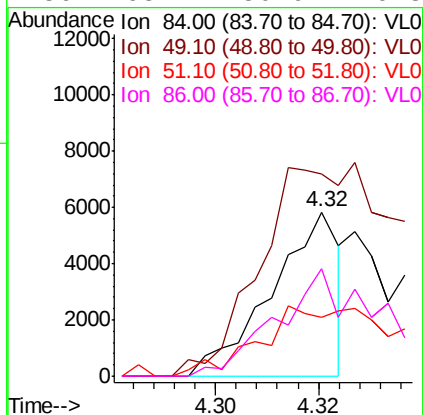




#20
Methylene Chloride
Concen: 0.098 ppbv
RT: 4.32 min Scan# 477
Delta R.T. -0.01 min
Lab File: VL037012.D
Acq: 20 May 2021 4:20

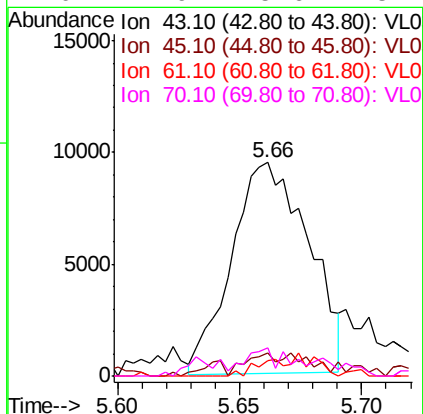
Instrument :
MSVOA_L
ClientSampleID :
KSV-05DL

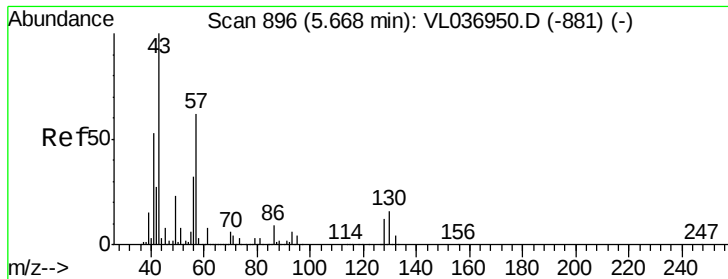
Tot Ion:	84	Resp:	5315
Ion	Ratio	Lower	Upper
84	100		
49	113.0	119.8	179.6#
51	32.3	35.1	52.7#
86	65.4	50.9	76.3



#25
Ethyl Acetate
Concen: 0.085 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.00 min
Lab File: VL037012.D
Acq: 20 May 2021 4:20

Tgt Ion:	43	Resp:	20742
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.8	11.8#
61	0.0	7.8	11.8#
70	7.9	5.6	8.4





#26

Hexane

Concen: 0.031 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.01 min

Lab File: VL037012.D

Acq: 20 May 2021 4:20

Instrument :

MSVOA_L

ClientSampleId :

KSV-05DL

Tot Ion: 57 Resp: 3904

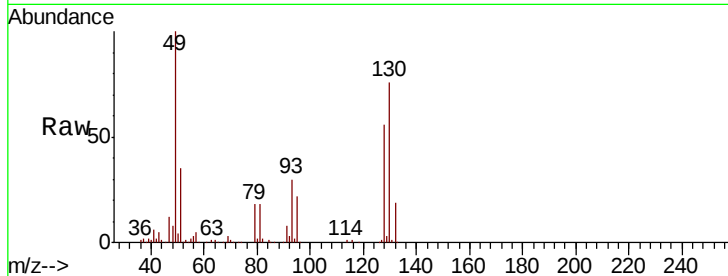
Ion Ratio Lower Upper

57 100

41 0.0 70.5 105.7#

43 636.4 165.8 248.8#

56 405.3 42.2 63.4#

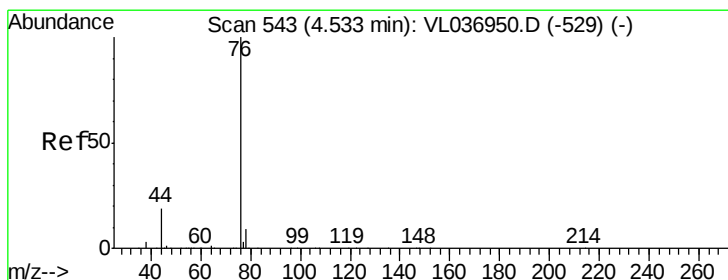
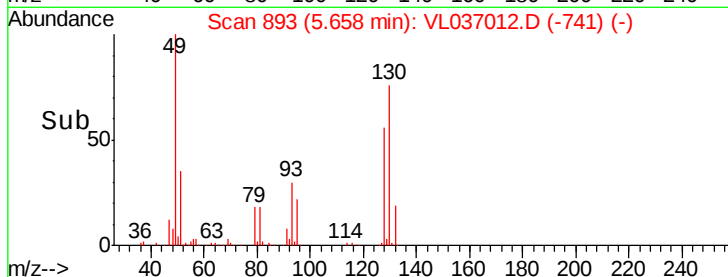
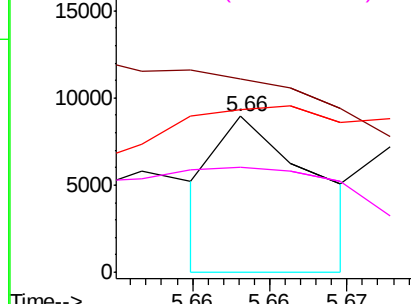


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#27

Carbon Disulfide

Concen: 0.105 ppbv

RT: 4.53 min Scan# 541

Delta R.T. -0.01 min

Lab File: VL037012.D

Acq: 20 May 2021 4:20

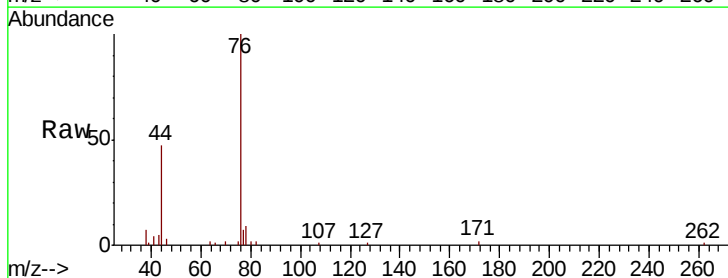
Tgt Ion: 76 Resp: 13150

Ion Ratio Lower Upper

76 100

44 55.9 15.5 23.3#

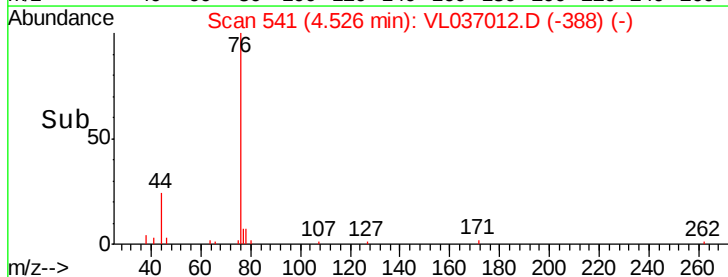
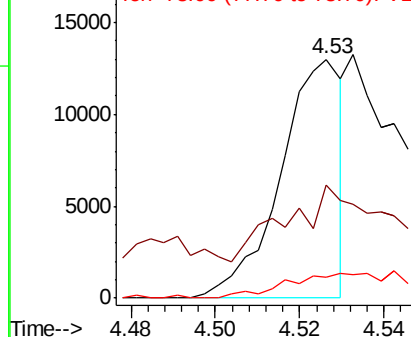
78 0.0 7.8 11.6#

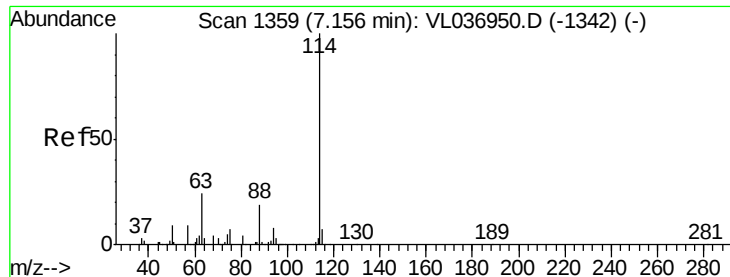


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0

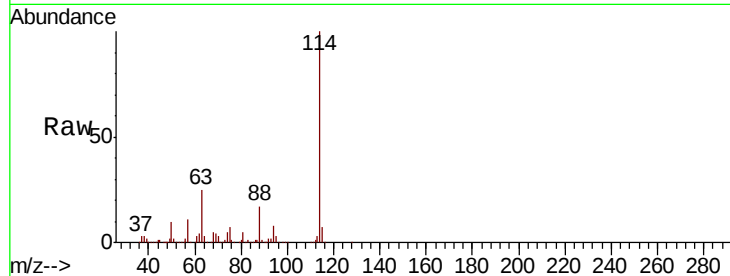




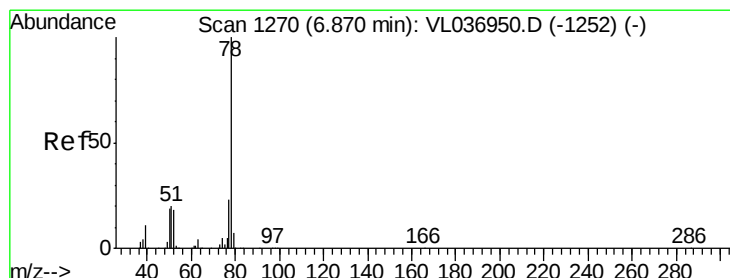
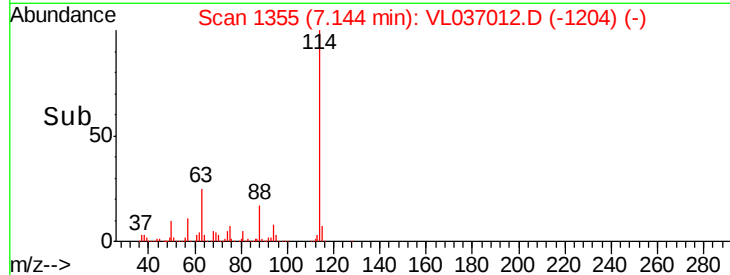
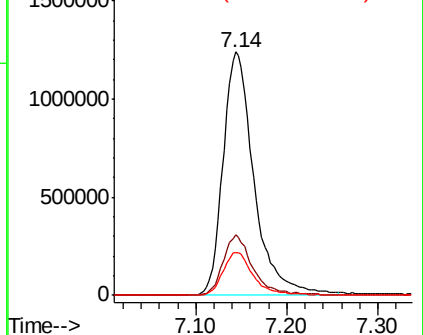
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.14 min Scan# 1355
 Delta R.T. -0.01 min
 Lab File: VL037012.D
 Acq: 20 May 2021 4:20

Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-05DL

Tot Ion:114 Resp: 2934927
 Ion Ratio Lower Upper
 114 100
 63 24.4 19.6 29.4
 88 17.8 14.6 21.8

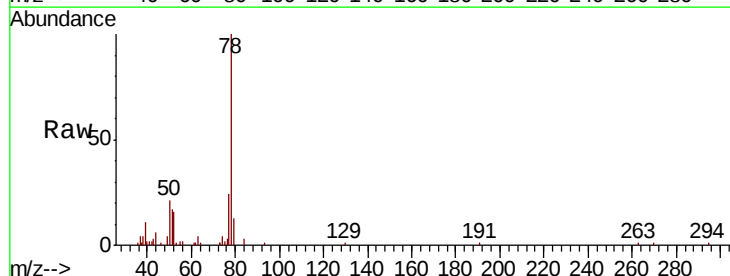


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

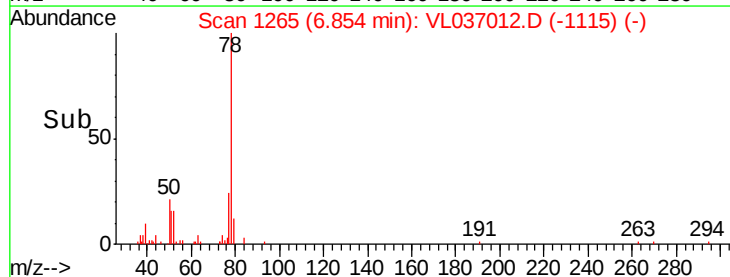
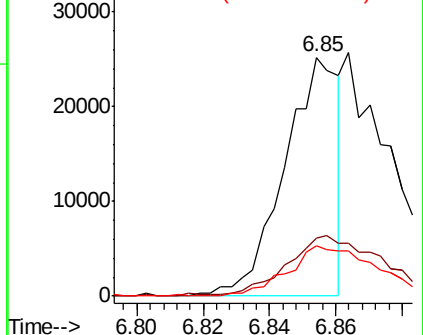


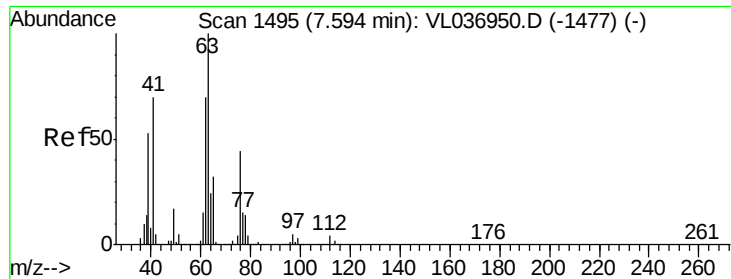
#36
 Benzene
 Concen: 0.114 ppbv
 RT: 6.85 min Scan# 1265
 Delta R.T. -0.02 min
 Lab File: VL037012.D
 Acq: 20 May 2021 4:20

Tgt Ion: 78 Resp: 28805
 Ion Ratio Lower Upper
 78 100
 77 23.4 18.6 28.0
 50 21.5 15.0 22.4



Abundance Ion 78.10 (77.80 to 78.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0
 Ion 50.10 (49.80 to 50.80): VL0





#39

1,2-Dichloropropane

Concen: 7.015 ppbv

RT: 7.14 min Scan# 1355

Delta R.T. -0.45 min

Lab File: VL037012.D

Acq: 20 May 2021 4:20

Instrument :

MSVOA_L

ClientSampleId :

KSV-05DL

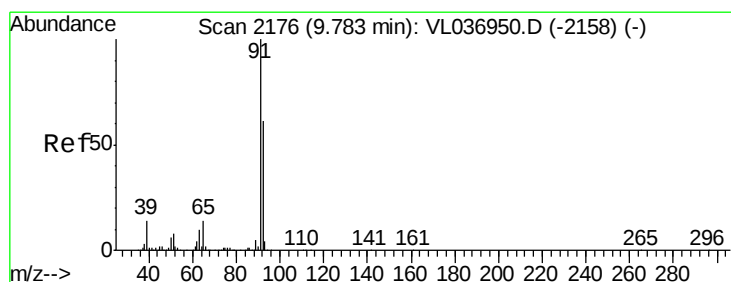
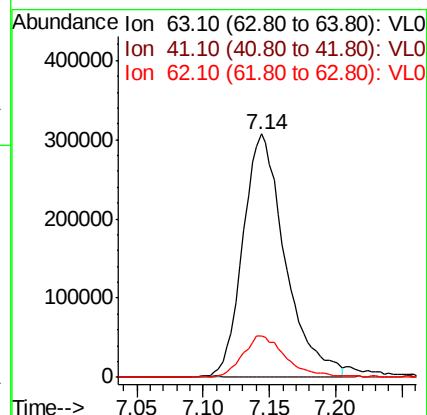
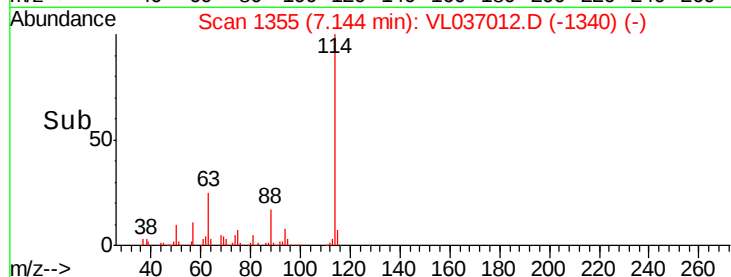
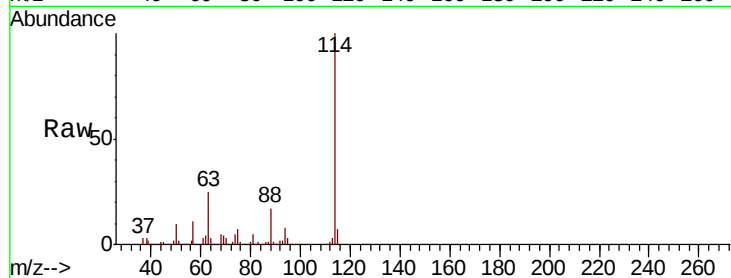
Tot Ion: 63 Resp: 683120

Ion Ratio Lower Upper

63 100

41 0.0 55.7 83.5#

62 16.9 56.2 84.4#



#53

Toluene

Concen: 0.076 ppbv

RT: 9.77 min Scan# 2171

Delta R.T. -0.02 min

Lab File: VL037012.D

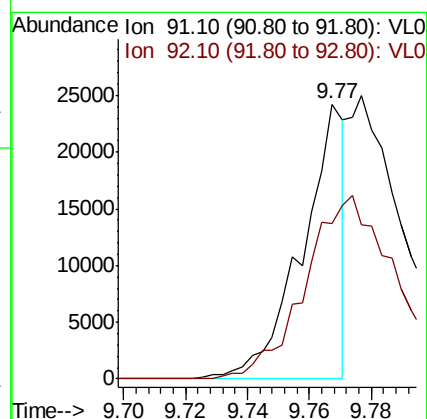
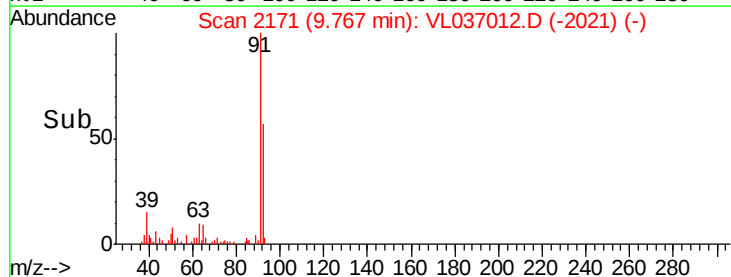
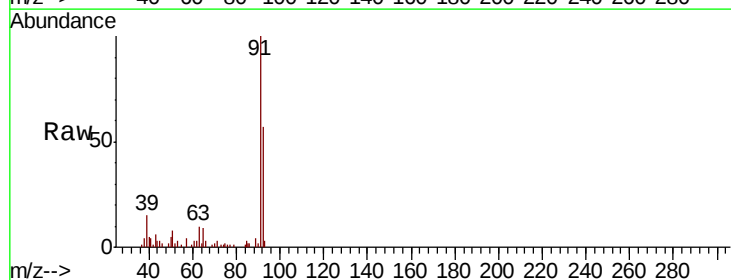
Acq: 20 May 2021 4:20

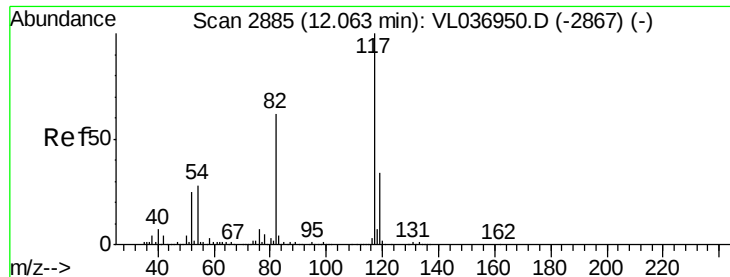
Tgt Ion: 91 Resp: 22828

Ion Ratio Lower Upper

91 100

92 0.0 49.5 74.3#

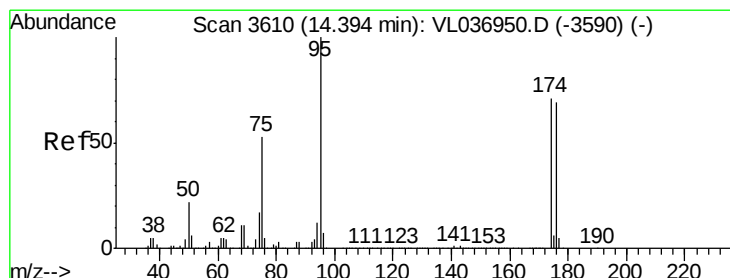
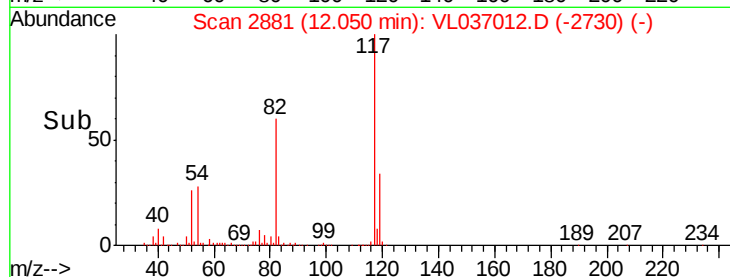
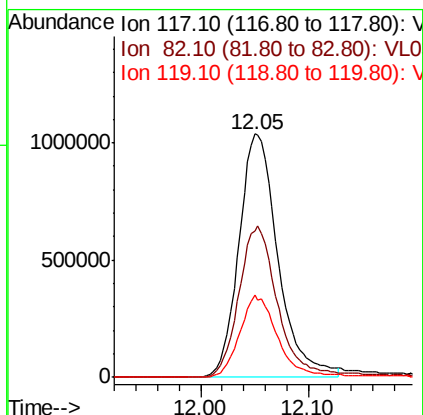
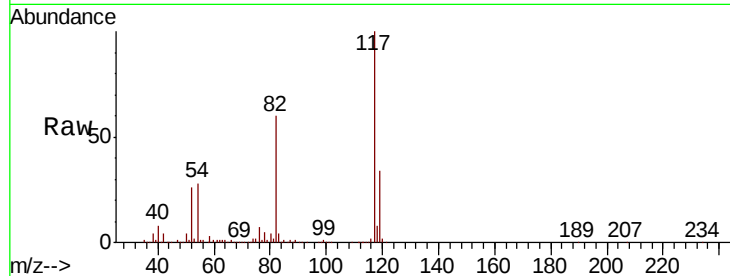




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.05 min Scan# 2881
Delta R.T. -0.01 min
Lab File: VL037012.D
Acq: 20 May 2021 4:20

Instrument :
MSVOA_L
ClientSampleId :
KSV-05DL

Tot Ion:117 Resp: 2619063
Ion Ratio Lower Upper
117 100
82 63.9 52.6 79.0
119 33.5 46.6 70.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.955 ppbv
RT: 14.38 min Scan# 3606
Delta R.T. -0.01 min
Lab File: VL037012.D
Acq: 20 May 2021 4:20

Tgt Ion: 95 Resp: 1958701
Ion Ratio Lower Upper
95 100
174 77.2 58.4 87.6
175 5.6 4.4 6.6

