

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060121\
 Data File : VL037072.D
 Acq On : 1 Jun 2021 16:22
 Operator : SY/AP
 Sample : M2559-02DL2 40X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 02 03:01:09 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	5.65	49	1497287	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4720948	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	4135121	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	3190238	10.27	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.70%

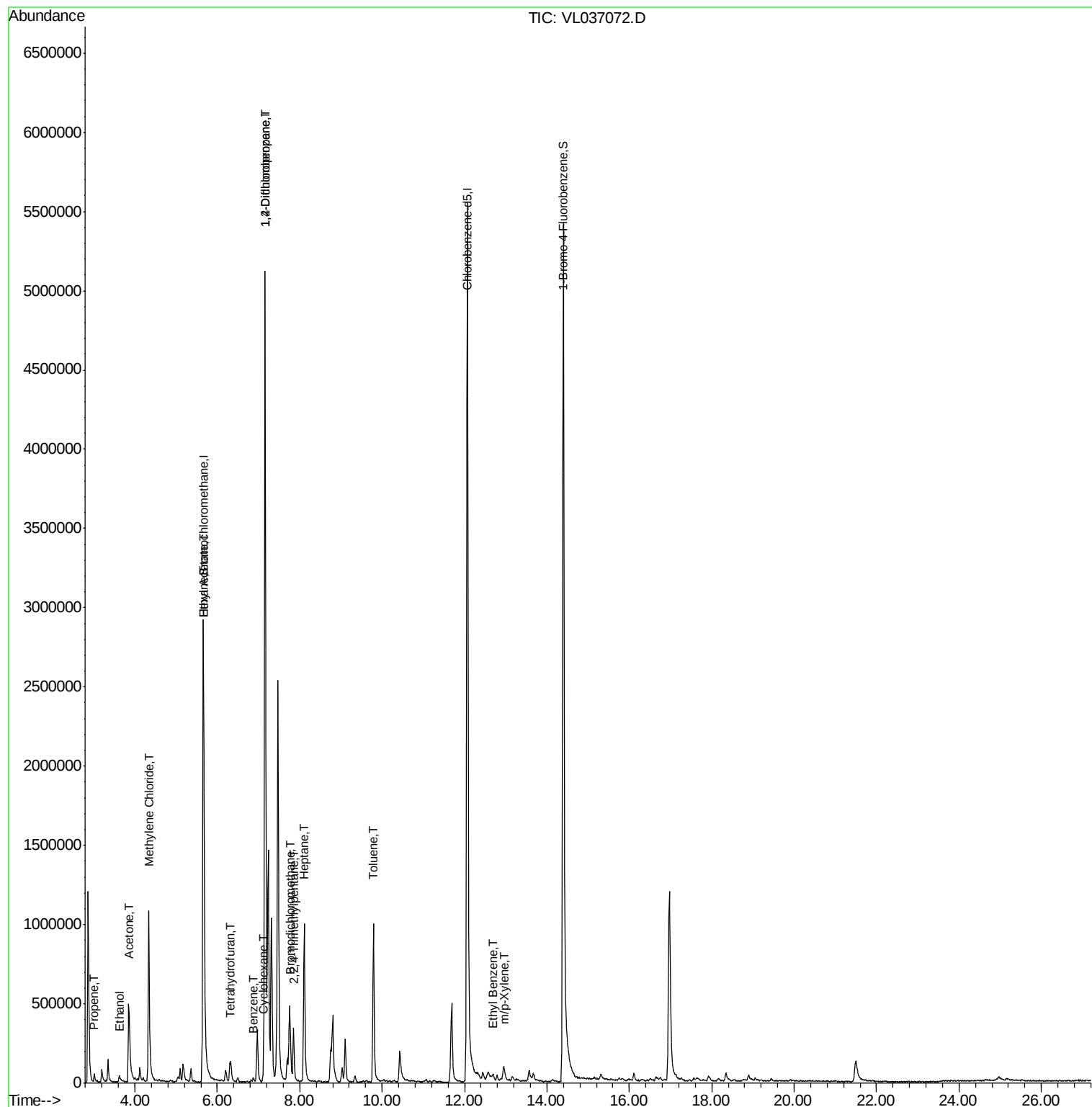
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.01	41	13421	0.137	ppbv	93
10) Heptane	8.11	43	496289	2.027	ppbv	99
13) Ethanol	3.62	45	42927	3.275	ppbv	71
15) Acetone	3.85	43	782852	5.105	ppbv	99
20) Methylene Chloride	4.33	84	479891	5.837	ppbv	97
25) Ethyl Acetate	5.67	43	287633	0.780	ppbv #	77
26) Hexane	5.67	57	412743	2.192	ppbv #	46
30) Cyclohexane	7.11	84	13932	0.087	ppbv #	12
36) Benzene	6.88	78	18526	0.046	ppbv #	87
39) 1,2-Dichloropropane	7.16	63	1123308	7.171	ppbv #	26
41) Tetrahydrofuran	6.30	42	8717	0.089	ppbv #	39
42) Bromodichloromethane	7.78	83	15096	0.049	ppbv #	25
44) 2,2,4-Trimethylpentane	7.85	57	21126	0.030	ppbv #	1
53) Toluene	9.79	91	891096	1.842	ppbv	99
58) Ethyl Benzene	12.69	91	28365	0.049	ppbv	92
59) m/p-Xylene	12.97	91	20700	0.043	ppbv #	30

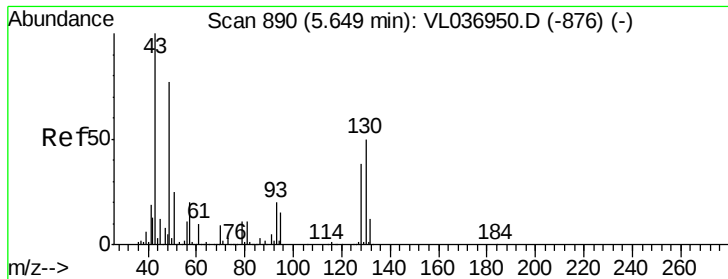
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. 0.01 min

Lab File: VL037072.D

Acq: 1 Jun 2021 16:22

Instrument :

MSVOA_L

ClientSampleId :

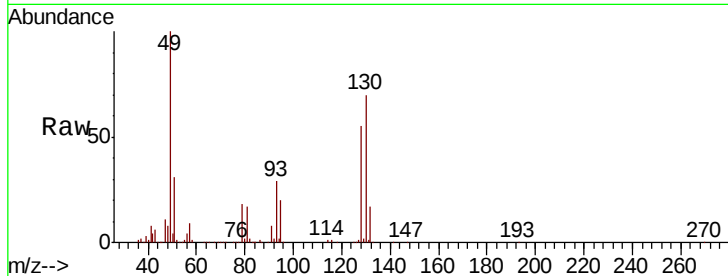
Tot Ion: 49 Resp: 1497287

Ion Ratio Lower Upper

49 100

128 59.0 26.9 80.7

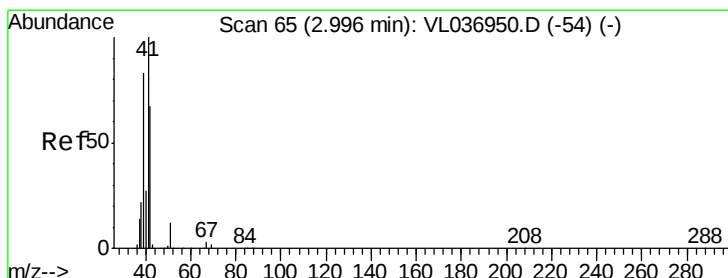
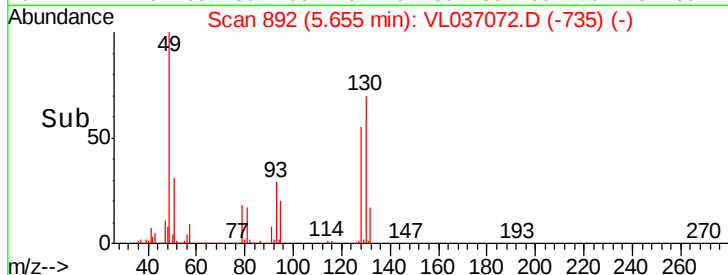
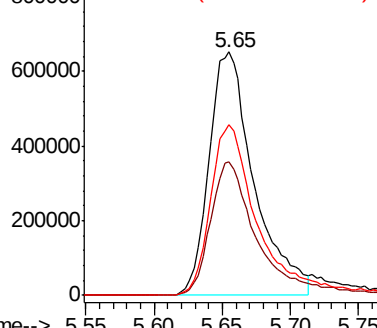
130 76.2 33.8 101.4



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: 0.137 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.01 min

Lab File: VL037072.D

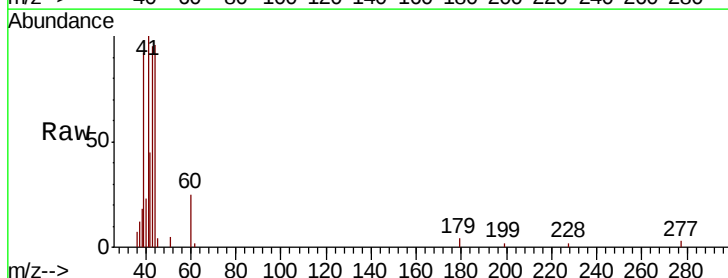
Acq: 1 Jun 2021 16:22

Tgt Ion: 41 Resp: 13421

Ion Ratio Lower Upper

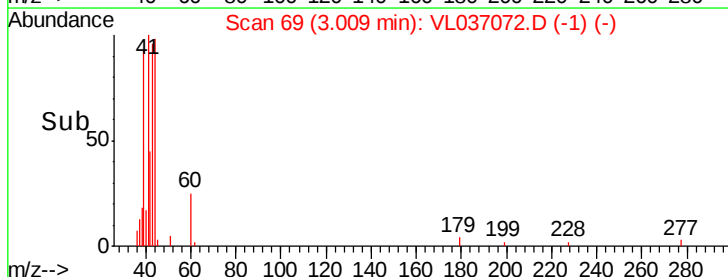
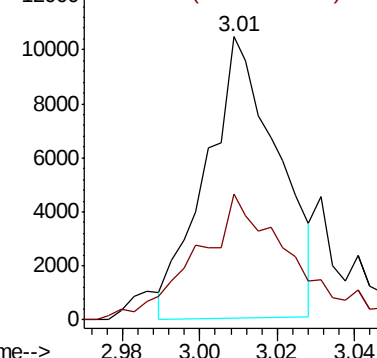
41 100

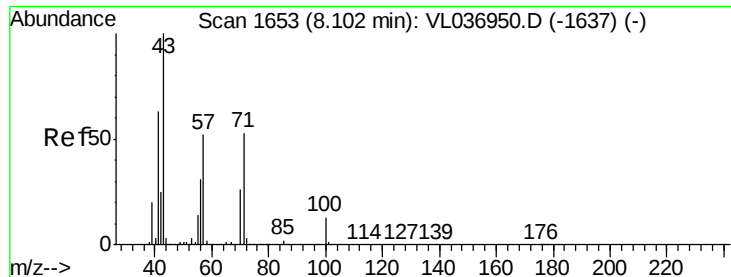
42 61.7 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

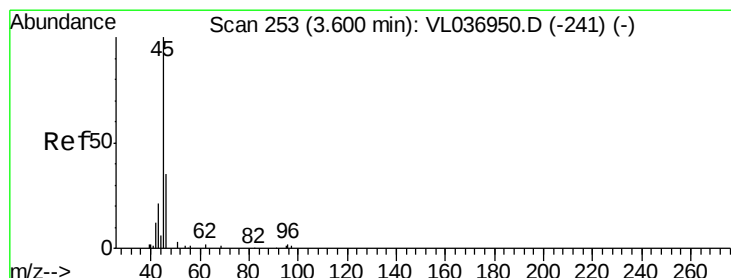
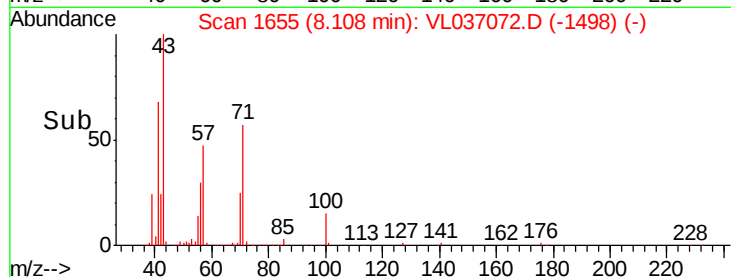
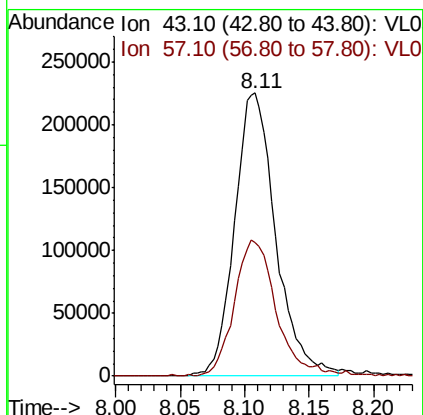
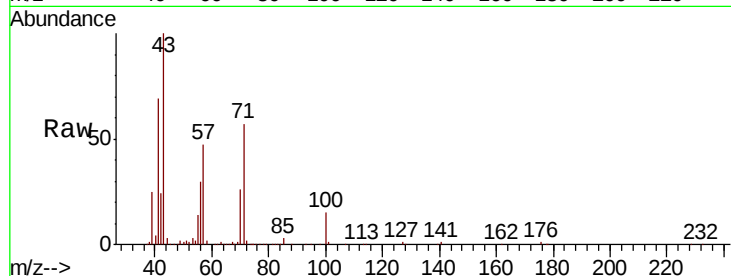




#10
Heptane
Concen: 2.027 ppbv
RT: 8.11 min Scan# 1655
Delta R.T. 0.01 min
Lab File: VL037072.D
Acq: 1 Jun 2021 16:22

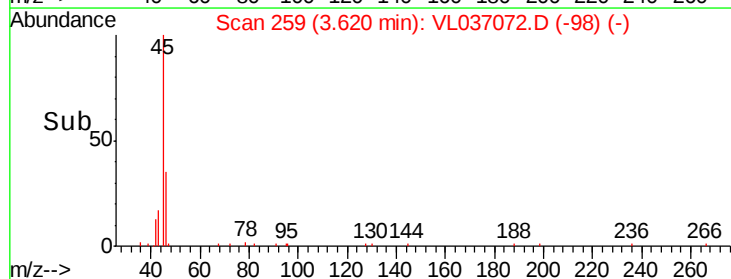
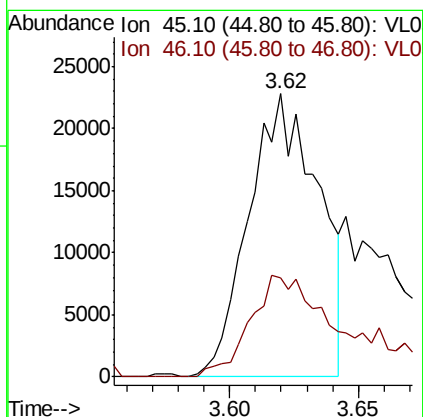
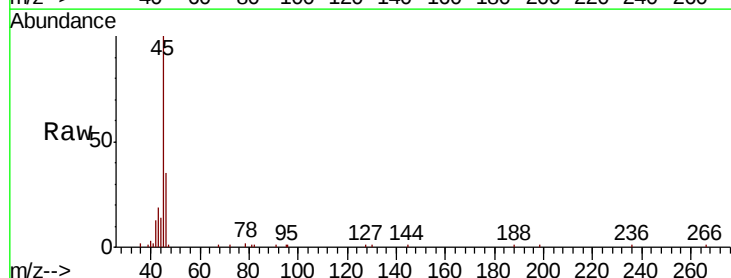
Instrument :
MSVOA_L
ClientSampleId :

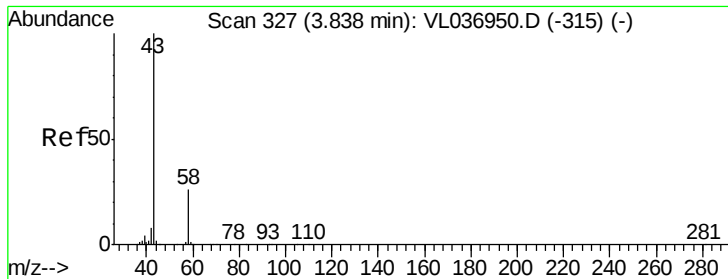
Tot Ion: 43 Resp: 496289
Ion Ratio Lower Upper
43 100
57 50.5 41.0 61.6



#13
Ethanol
Concen: 3.275 ppbv
RT: 3.62 min Scan# 259
Delta R.T. 0.02 min
Lab File: VL037072.D
Acq: 1 Jun 2021 16:22

Tgt Ion: 45 Resp: 42927
Ion Ratio Lower Upper
45 100
46 58.9 16.3 65.3

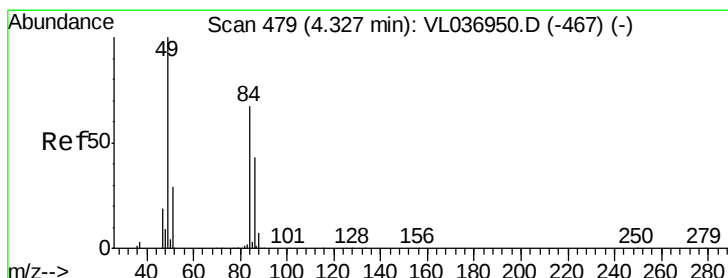
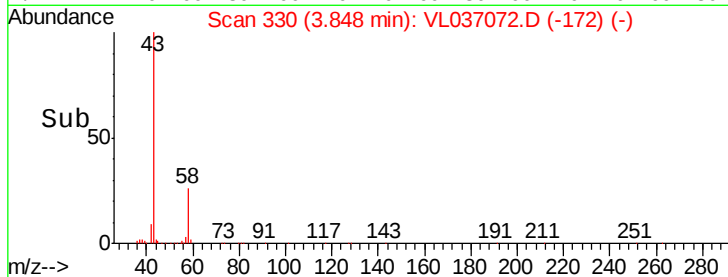
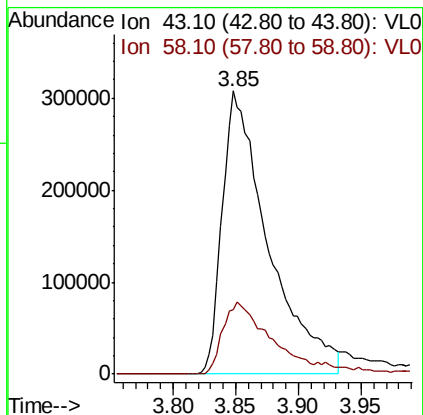
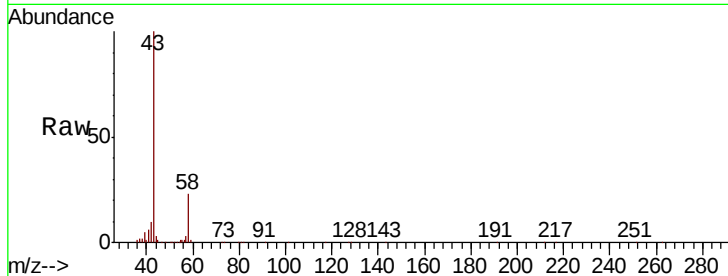




#15
Acetone
Concen: 5.105 ppbv
RT: 3.85 min Scan# 330
Delta R.T. 0.01 min
Lab File: VL037072.D
Acq: 1 Jun 2021 16:22

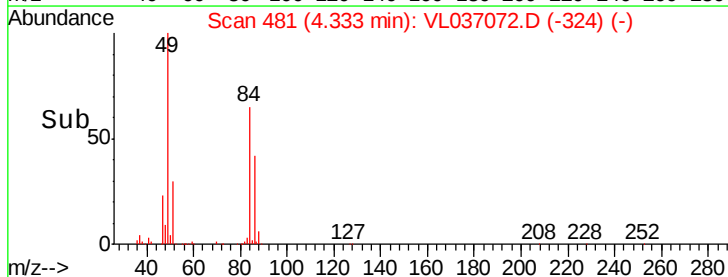
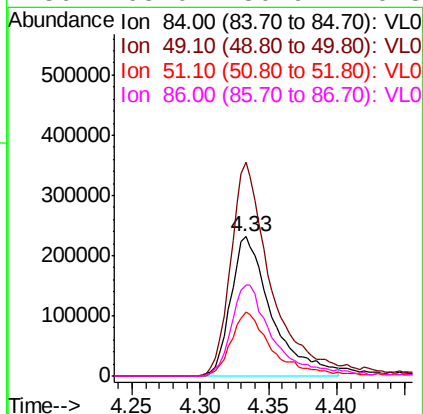
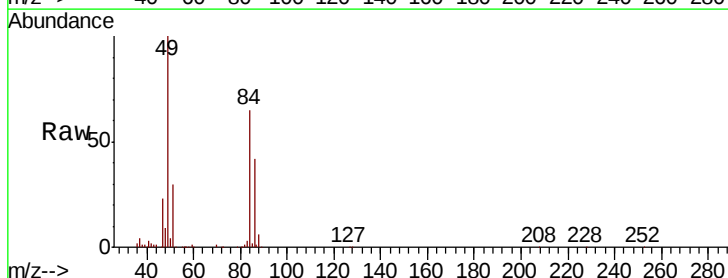
Instrument :
MSVOA_L
ClientSampleId :

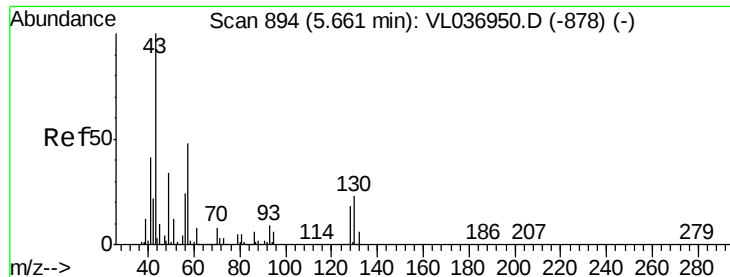
Tot Ion: 43 Resp: 782852
Ion Ratio Lower Upper
43 100
58 30.5 24.0 36.0



#20
Methylene Chloride
Concen: 5.837 ppbv
RT: 4.33 min Scan# 481
Delta R.T. 0.01 min
Lab File: VL037072.D
Acq: 1 Jun 2021 16:22

Tgt Ion: 84 Resp: 479891
Ion Ratio Lower Upper
84 100
49 153.4 119.8 179.6
51 46.2 35.1 52.7
86 65.0 50.9 76.3

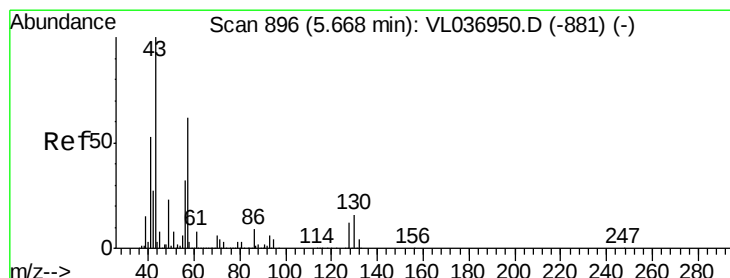
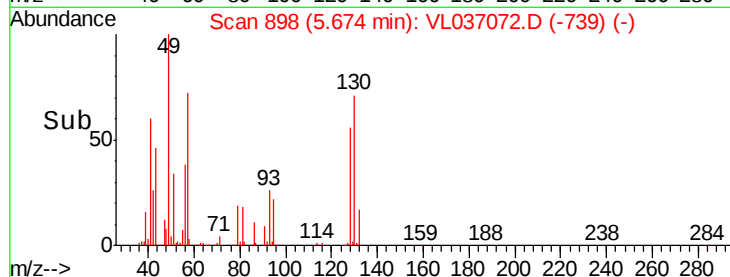
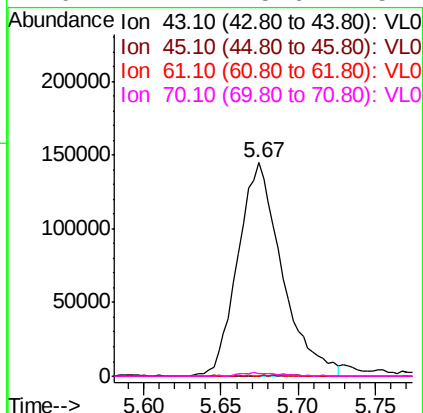
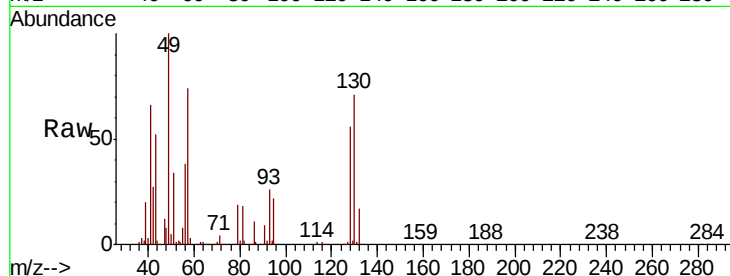




#25
Ethyl Acetate
Concen: 0.780 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.01 min
Lab File: VL037072.D
Acq: 1 Jun 2021 16:22

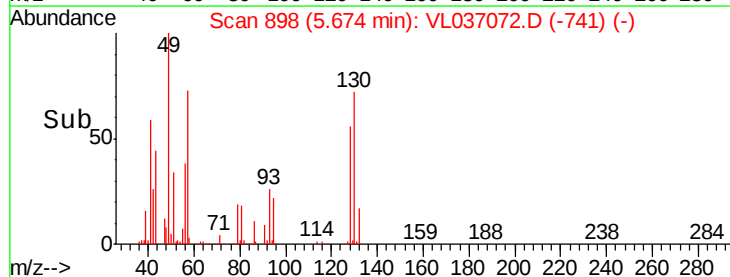
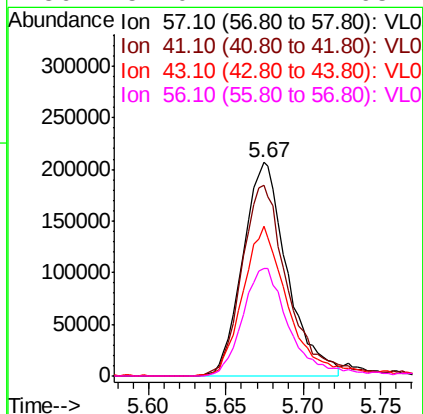
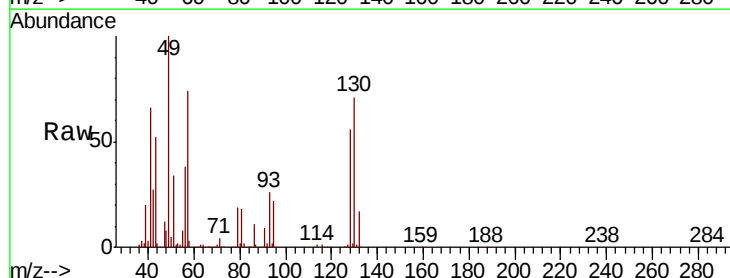
Instrument :
MSVOA_L
ClientSampleId :

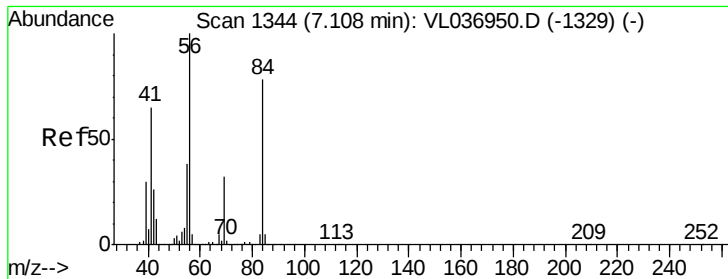
Tot Ion:	43	Resp:	287633
Ion	Ratio	Lower	Upper
43	100		
45	0.3	7.8	11.8#
61	0.4	7.8	11.8#
70	1.7	5.6	8.4#



#26
Hexane
Concen: 2.192 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.01 min
Lab File: VL037072.D
Acq: 1 Jun 2021 16:22

Tgt Ion:	57	Resp:	412743
Ion	Ratio	Lower	Upper
57	100		
41	95.0	70.5	105.7
43	72.5	165.8	248.8#
56	54.0	42.2	63.4

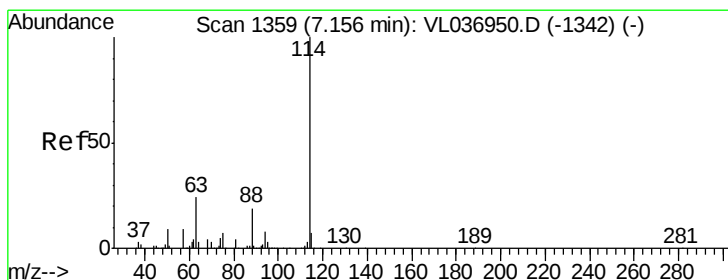
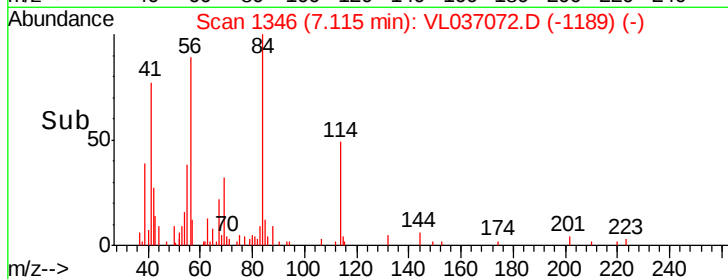
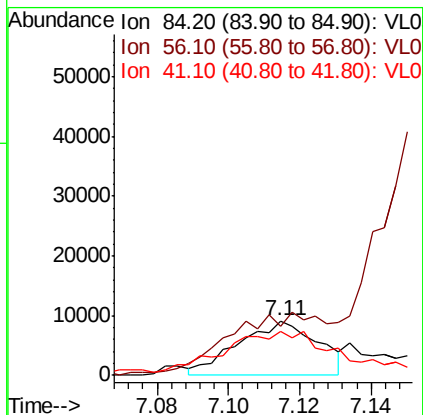
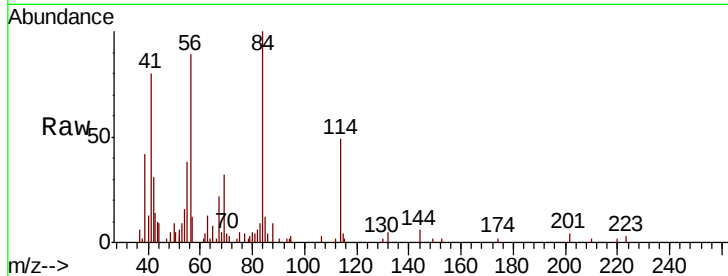




#30
Cvclohexane
Concen: 0.087 ppbv
RT: 7.11 min Scan# 1346
Delta R.T. 0.01 min
Lab File: VL037072.D
Acq: 1 Jun 2021 16:22

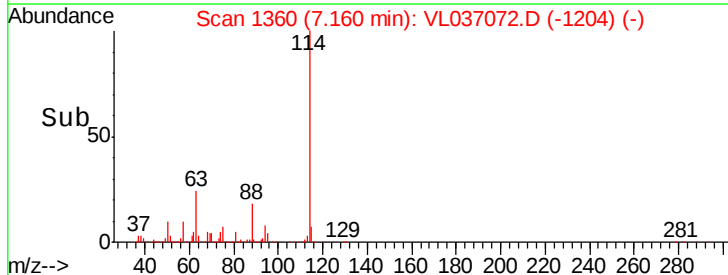
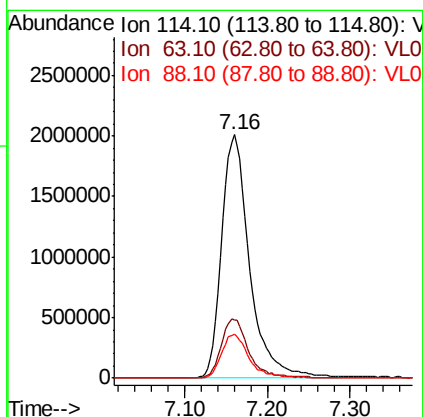
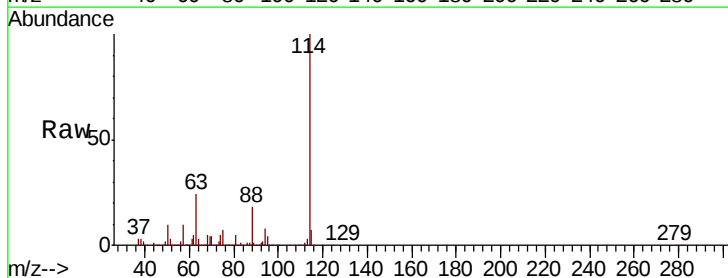
Instrument :
MSVOA_L
ClientSampled :

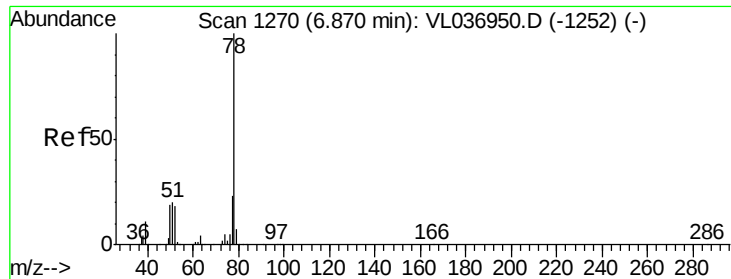
Tot Ion: 84 Resp: 13932
Ion Ratio Lower Upper
84 100
56 0.0 107.9 161.9#
41 123.2 65.5 98.3#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. 0.00 min
Lab File: VL037072.D
Acq: 1 Jun 2021 16:22

Tgt Ion:114 Resp: 4720948
Ion Ratio Lower Upper
114 100
63 24.1 19.6 29.4
88 17.8 14.6 21.8

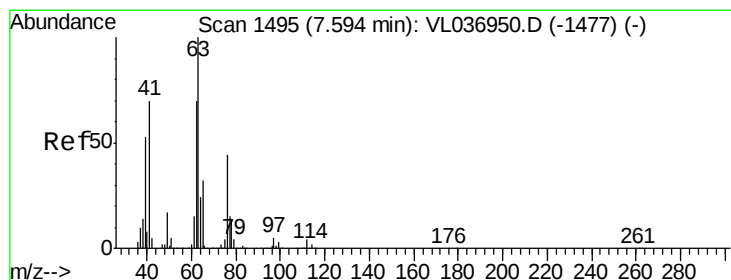
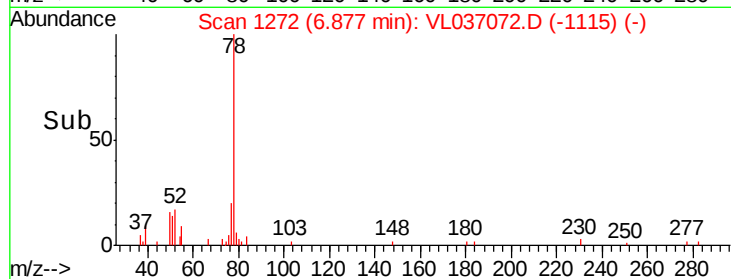
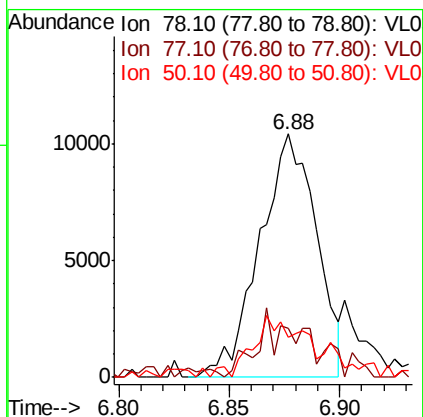
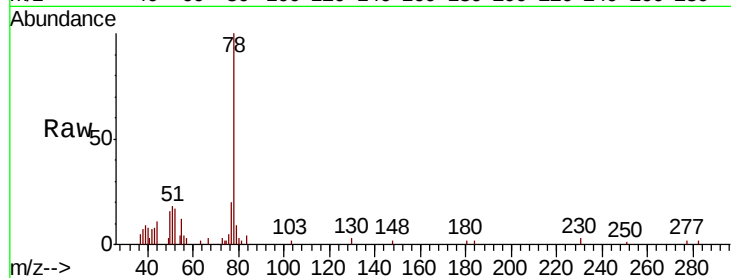




#36
Benzene
Concen: 0.046 ppbv
RT: 6.88 min Scan# 1272
Delta R.T. 0.01 min
Lab File: VL037072.D
Acq: 1 Jun 2021 16:22

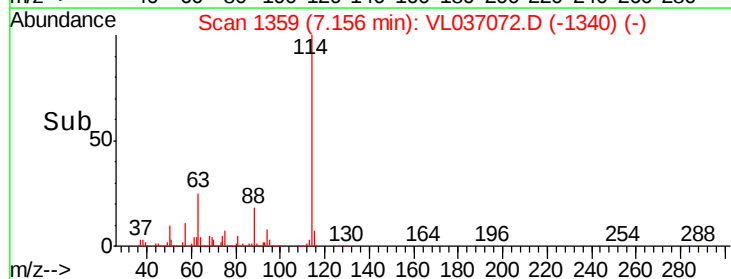
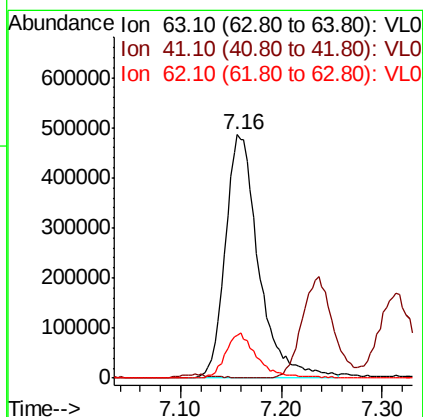
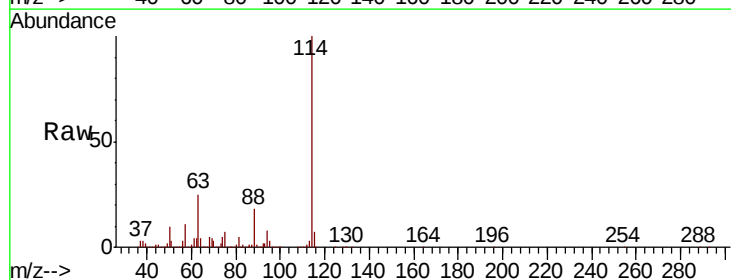
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MSVOA_L
ClientSampled :

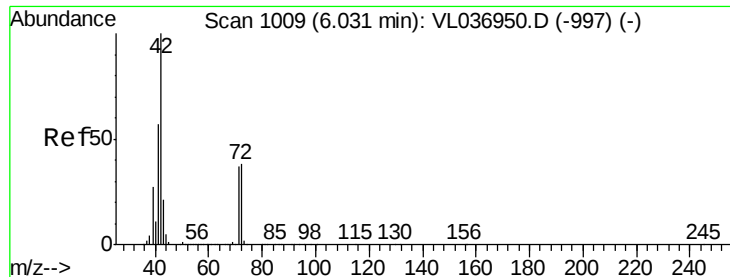
Tot Ion: 78 Resp: 18526
Ion Ratio Lower Upper
78 100
77 16.1 18.6 28.0#
50 13.6 15.0 22.4#



#39
1,2-Dichloropropane
Concen: 7.171 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.44 min
Lab File: VL037072.D
Acq: 1 Jun 2021 16:22

Tgt Ion: 63 Resp: 1123308
Ion Ratio Lower Upper
63 100
41 0.0 55.7 83.5#
62 17.7 56.2 84.4#





#41

Tetrahydrofuran

Concen: 0.089 ppbv

RT: 6.30 min Scan# 1093

Delta R.T. 0.27 min

Lab File: VL037072.D

Acq: 1 Jun 2021 16:22

Instrument :

MSVOA_L

ClientSampleId :

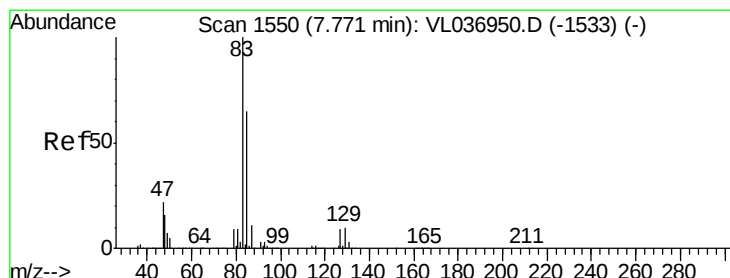
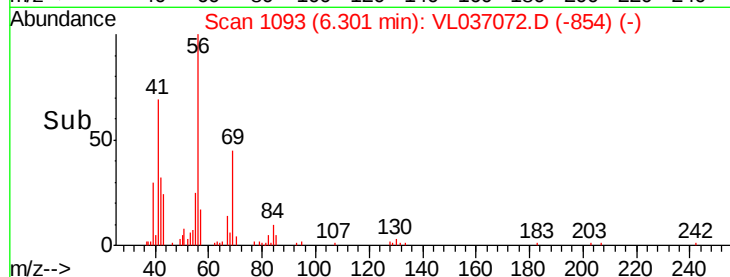
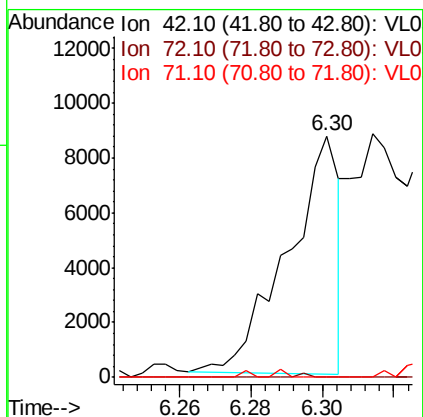
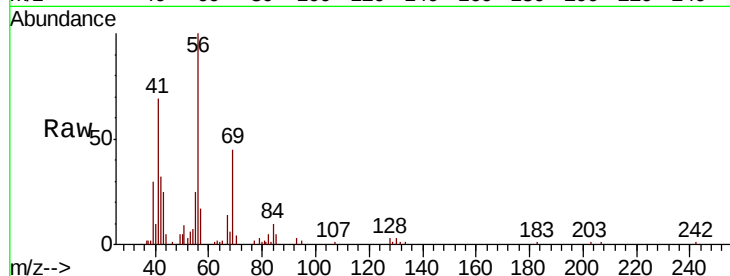
Tot Ion: 42 Resp: 8717

Ion Ratio Lower Upper

42 100

72 3.3 31.4 47.2#

71 0.0 30.4 45.6#



#42

Bromodichloromethane

Concen: 0.049 ppbv

RT: 7.78 min Scan# 1552

Delta R.T. 0.01 min

Lab File: VL037072.D

Acq: 1 Jun 2021 16:22

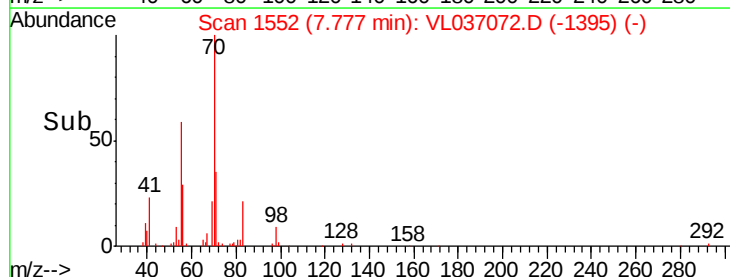
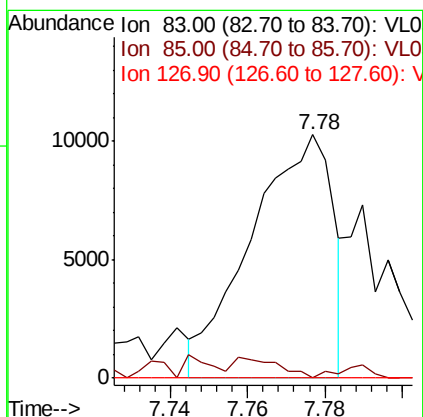
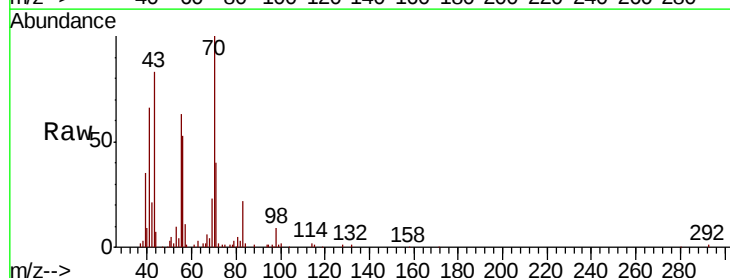
Tgt Ion: 83 Resp: 15096

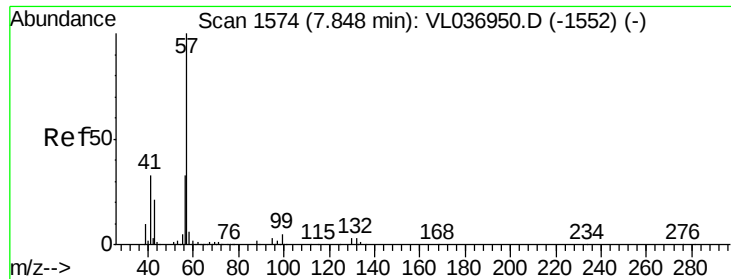
Ion Ratio Lower Upper

83 100

85 0.0 51.7 77.5#

127 0.0 6.9 10.3#

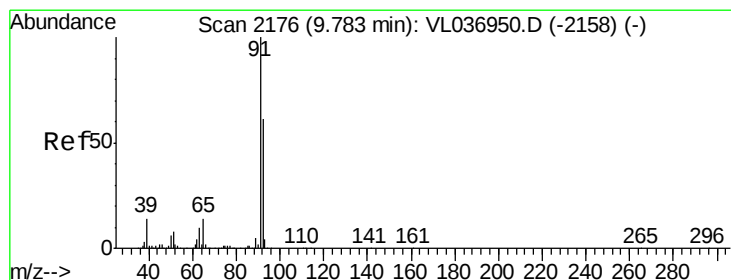
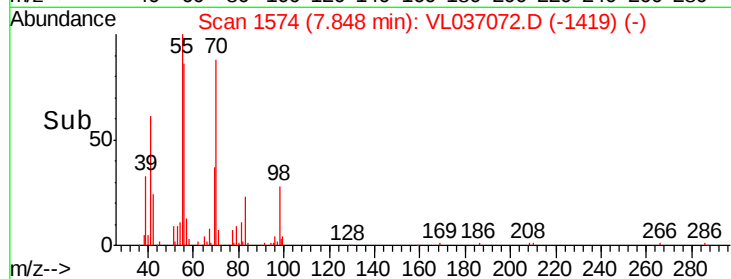
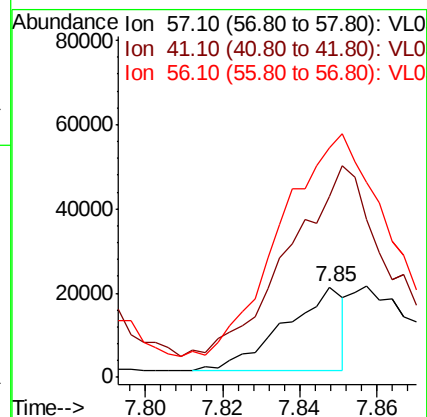
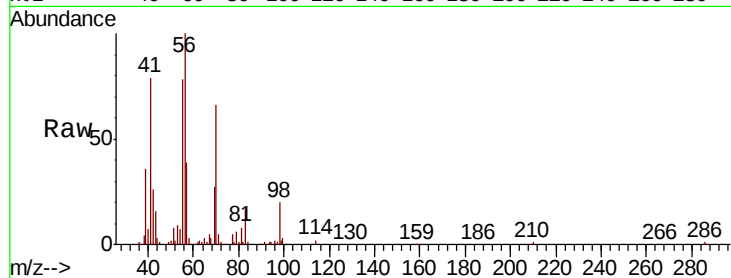




#44
 2,2,4-Trimethylpentane
 Concen: 0.030 ppbv
 RT: 7.85 min Scan# 1574
 Delta R.T. -0.00 min
 Lab File: VL037072.D
 Acq: 1 Jun 2021 16:22

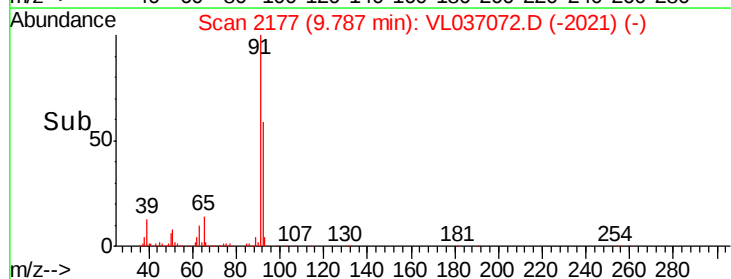
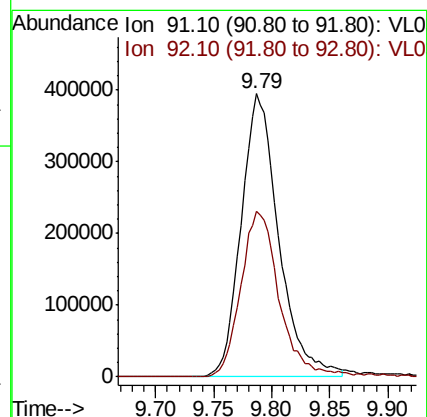
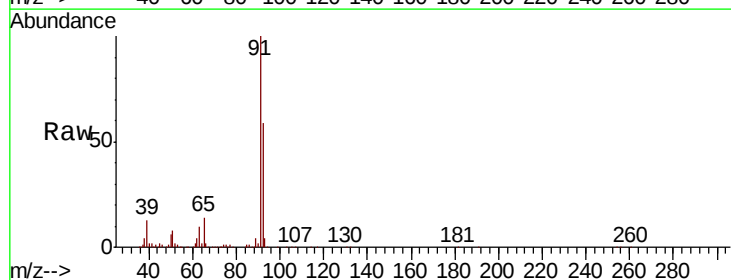
Instrument :
 MSVOA_L
 ClientSampleID :

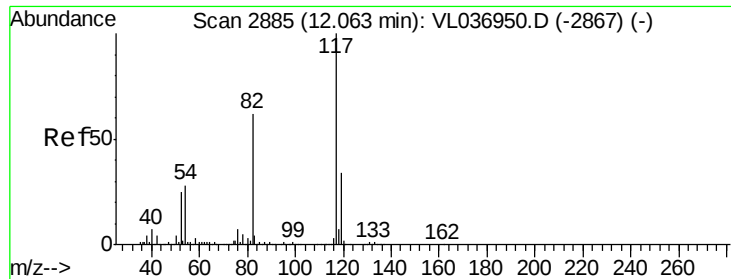
Tot Ion: 57 Resp: 21126
 Ion Ratio Lower Upper
 57 100
 41 469.0 27.0 40.4#
 56 627.6 25.4 38.2#



#53
 Toluene
 Concen: 1.842 ppbv
 RT: 9.79 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VL037072.D
 Acq: 1 Jun 2021 16:22

Tgt Ion: 91 Resp: 891096
 Ion Ratio Lower Upper
 91 100
 92 60.9 49.5 74.3

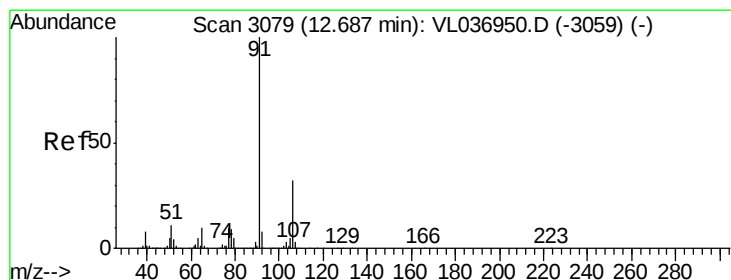
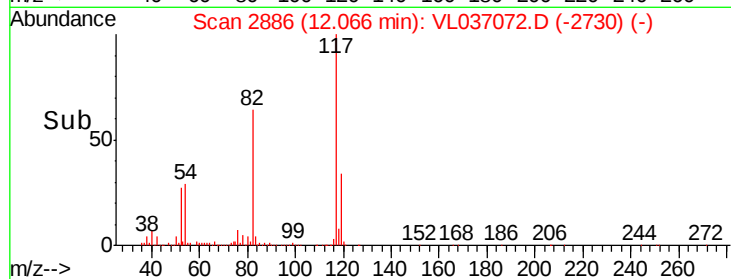
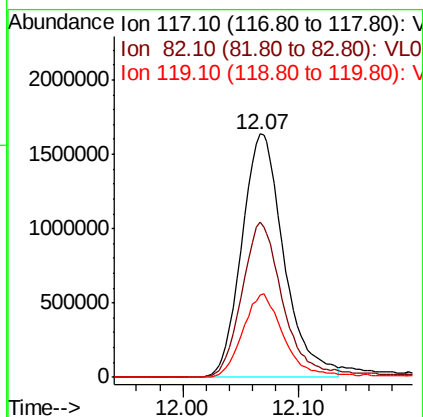
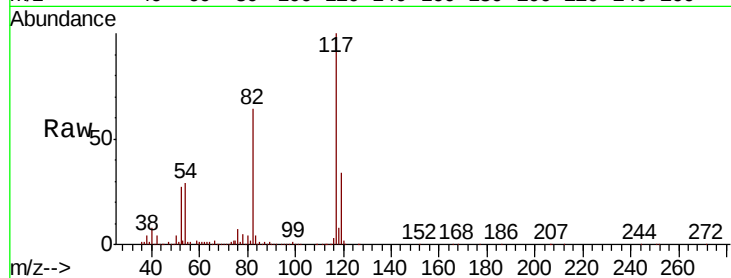




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2886
Delta R.T. 0.00 min
Lab File: VL037072.D
Acq: 1 Jun 2021 16:22

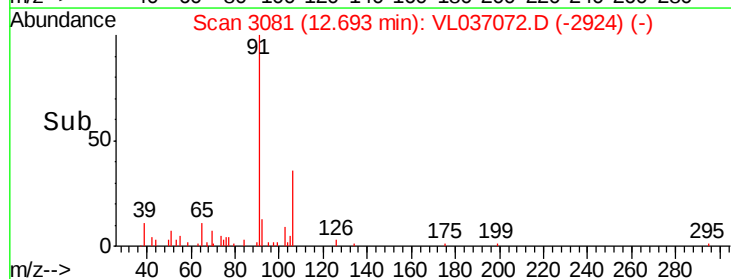
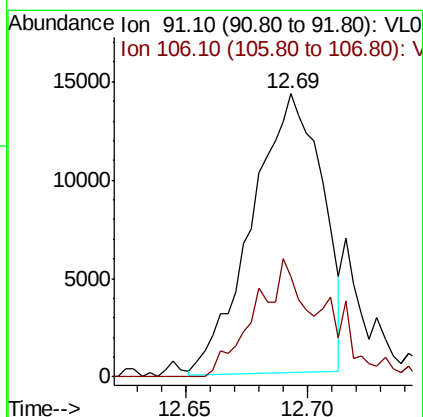
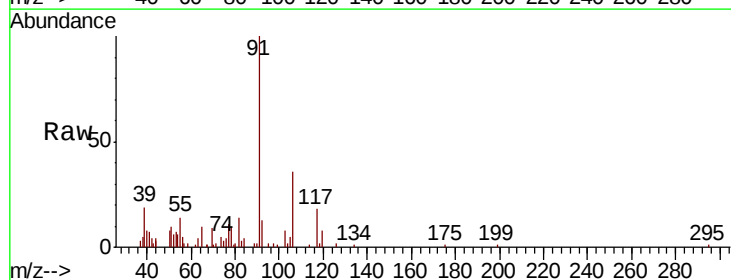
Instrument :
MSVOA_L
ClientSampleId :

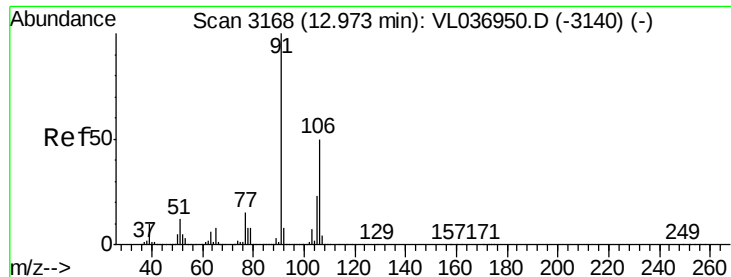
Tot Ion:117 Resp: 4135121
Ion Ratio Lower Upper
117 100
82 66.0 52.6 79.0
119 34.4 46.6 70.0#



#58
Ethyl Benzene
Concen: 0.049 ppbv
RT: 12.69 min Scan# 3081
Delta R.T. 0.01 min
Lab File: VL037072.D
Acq: 1 Jun 2021 16:22

Tgt Ion: 91 Resp: 28365
Ion Ratio Lower Upper
91 100
106 36.3 25.6 38.4

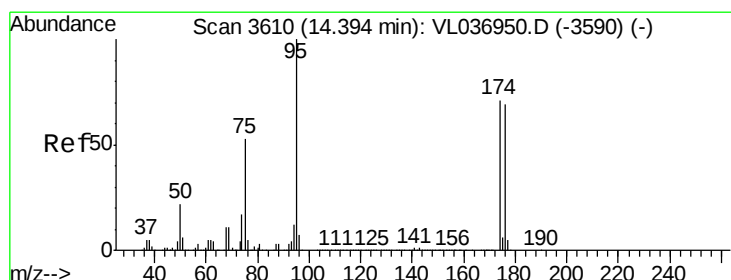
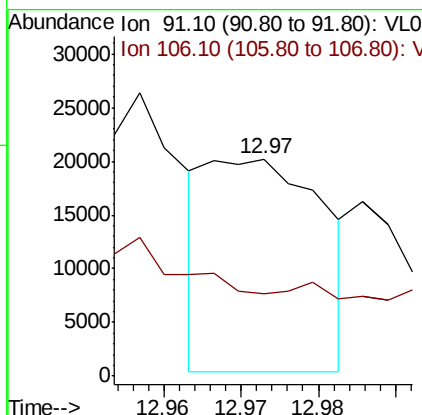
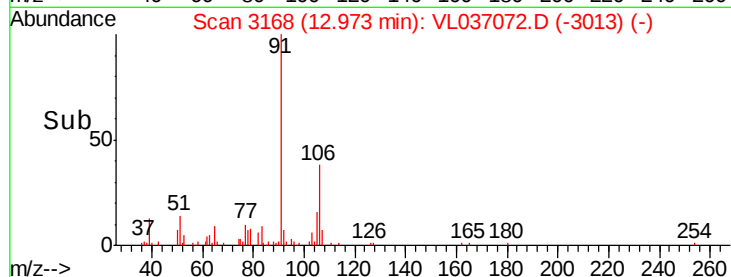
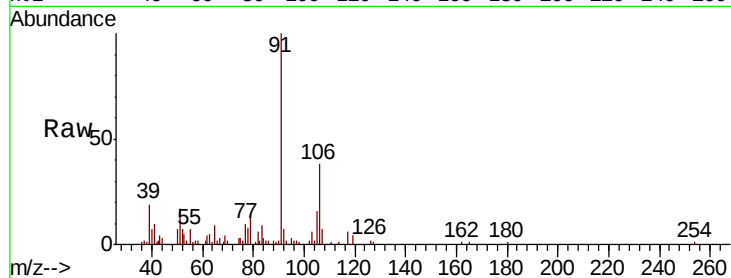




#59
m/p-Xylene
Concen: 0.043 ppbv
RT: 12.97 min Scan# 3168
Delta R.T. -0.00 min
Lab File: VL037072.D
Acq: 1 Jun 2021 16:22

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 91 Resp: 20700
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.270 ppbv
RT: 14.40 min Scan# 3611
Delta R.T. 0.00 min
Lab File: VL037072.D
Acq: 1 Jun 2021 16:22

Tgt Ion: 95 Resp: 3190238
Ion Ratio Lower Upper
95 100
174 74.2 58.4 87.6
175 5.3 4.4 6.6

