

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090821\
 Data File : VL037569.D
 Acq On : 8 Sep 2021 13:03
 Operator : SY/AP
 Sample : M3663-06DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-3DL

Quant Time: Sep 09 09:11:14 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
 QLast Update : Tue Aug 17 02:13:47 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1715600	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.18	114	4978546	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.10	117	4477211	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3310946	10.41	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.97	51	590114	1.796	ppbv #	60
9) Propene	3.03	41	120443	1.025	ppbv #	70
10) Heptane	8.13	43	9072	0.034	ppbv #	1
13) Ethanol	3.62	45	280165	24.494	ppbv #	39
15) Acetone	3.85	43	1452615	8.320	ppbv	99
16) 1,3-Butadiene	3.31	39	26799	0.239	ppbv #	23
17) tert-Butyl alcohol	4.30	59	7340	0.046	ppbv #	62
19) Isopropyl Alcohol	3.97	45	1577579	15.771	ppbv #	96
20) Methylene Chloride	4.35	84	142390	1.629	ppbv #	85
23) Vinyl Acetate	5.08	43	11238	0.044	ppbv #	91
25) Ethyl Acetate	5.69	43	128213	0.289	ppbv #	88
26) Hexane	5.70	57	159472	0.736	ppbv #	48
29) Chloroform	5.76	83	66618	0.217	ppbv #	81
31) cis-1,2-Dichloroethene	5.56	61	56871	0.290	ppbv	90
34) 2-Butanone	5.26	43	120860	0.594	ppbv #	82
38) Trichloroethene	7.83	130	6470	0.038	ppbv	91
39) 1,2-Dichloropropane	7.25	63	13313	0.083	ppbv #	24
52) Tetrachloroethene	11.23	164	735348	4.288	ppbv	99
53) Toluene	9.82	91	298202	0.624	ppbv	97
58) Ethyl Benzene	12.98	91	213951	0.344	ppbv	91
59) m/p-Xylene	13.00	91	116131	0.216	ppbv #	30
60) o-Xylene	13.70	91	111794	0.222	ppbv	93
72) 4-Ethyltoluene	15.86	105	19508	0.033	ppbv #	9
74) 1,2,4-Trimethylbenzene	16.78	105	42905	0.073	ppbv #	63

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

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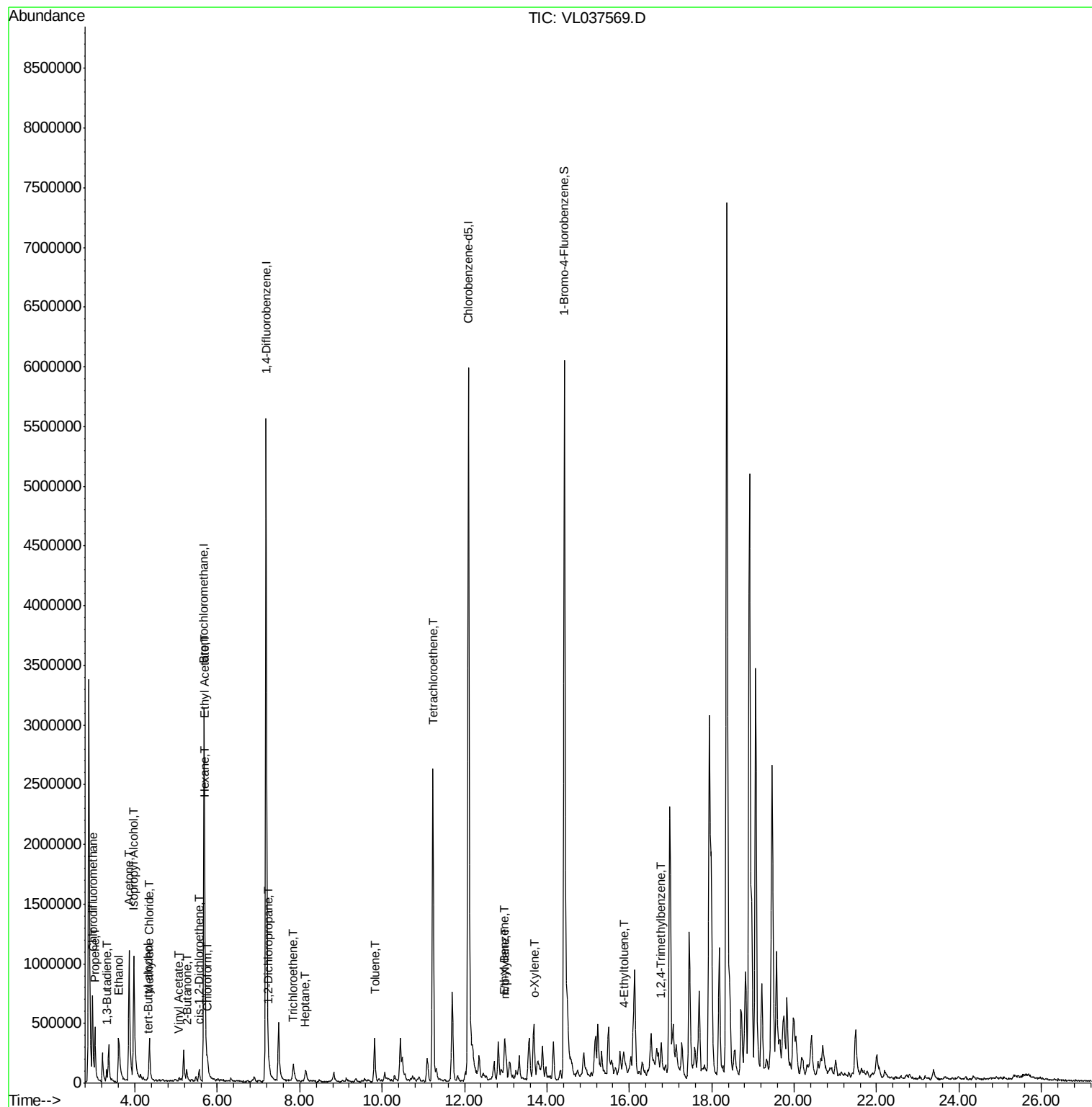
Quant Time: Sep 09 09:11:14 2021

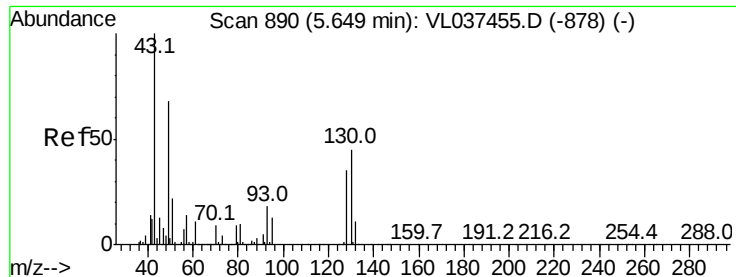
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021

QLast Update : Tue Aug 17 02:13:47 2021

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.03 min

Lab File: VL037569.D

Acq: 8 Sep 2021 13:03

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MSVOA_L

ClientSampleId :

SV-3DL

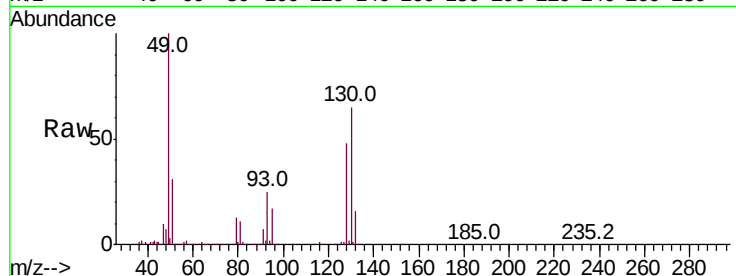
Tot Ion: 49 Resp: 1715600

Ion Ratio Lower Upper

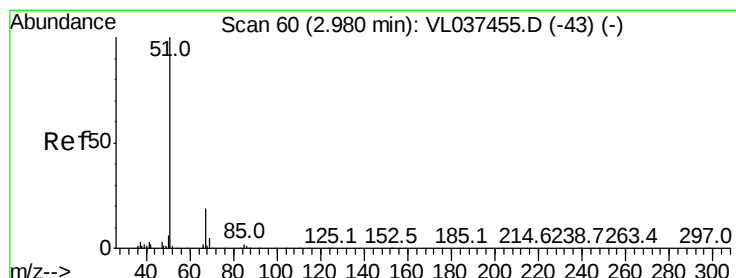
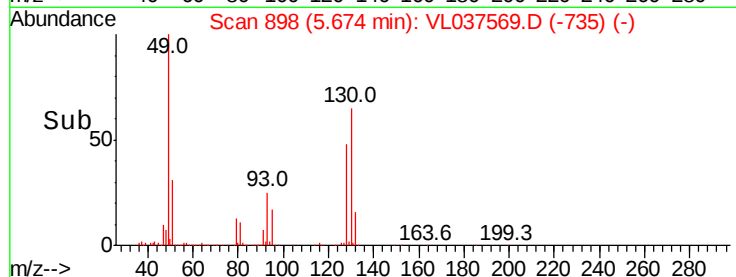
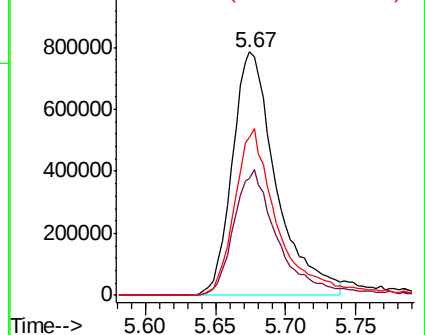
49 100

128 53.8 27.5 82.4

130 69.9 34.0 101.8



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



#3

Chlorodifluoromethane

Concen: 1.796 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.01 min

Lab File: VL037569.D

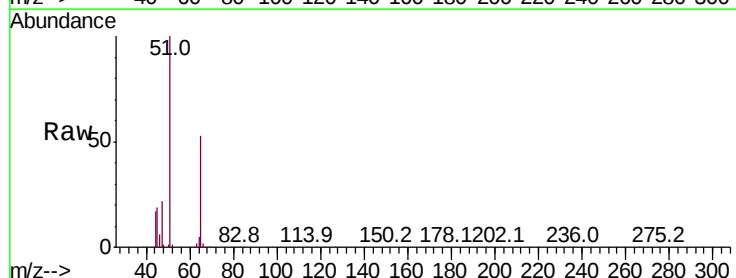
Acq: 8 Sep 2021 13:03

Tgt Ion: 51 Resp: 590114

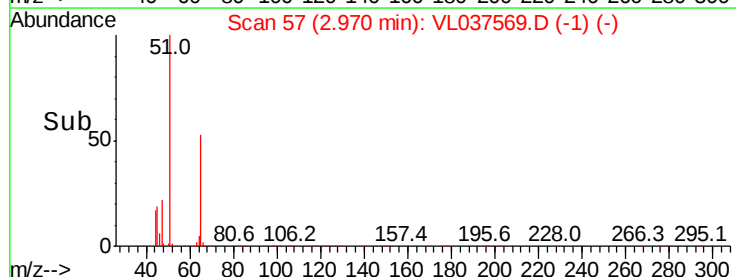
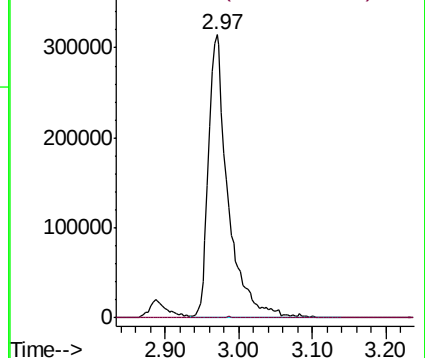
Ion Ratio Lower Upper

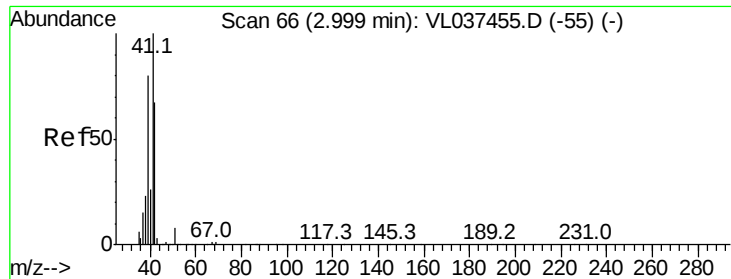
51 100

67 0.0 14.2 21.2#



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 1.025 ppbv

RT: 3.03 min Scan# 76

Delta R.T. 0.03 min

Lab File: VL037569.D

Acq: 8 Sep 2021 13:03

Instrument :

MSVOA_L

ClientSampleId :

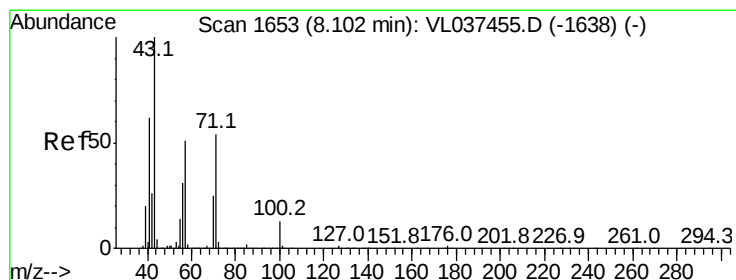
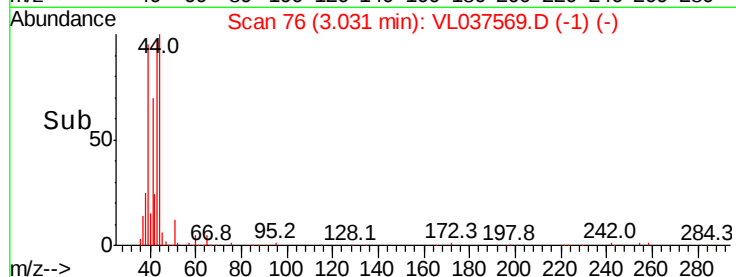
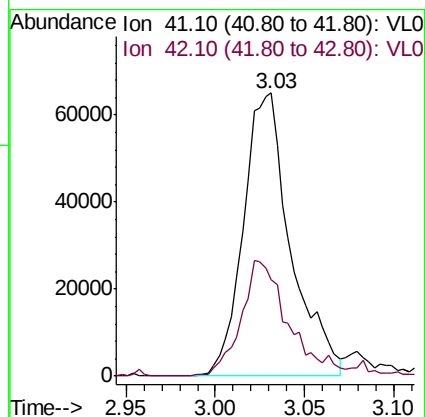
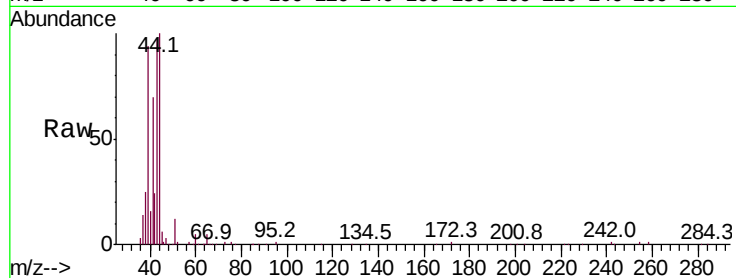
SV-3DL

Tot Ion: 41 Resp: 120443

Ion Ratio Lower Upper

41 100

42 43.2 53.7 80.5#



#10

Heptane

Concen: 0.034 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. 0.03 min

Lab File: VL037569.D

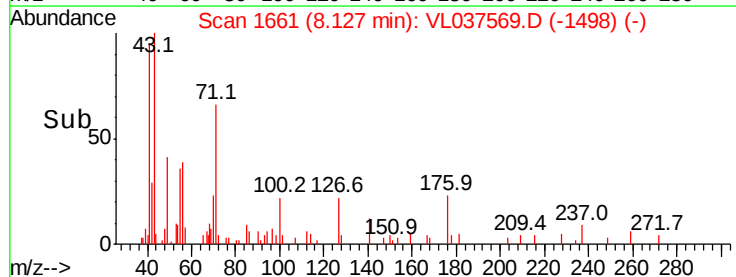
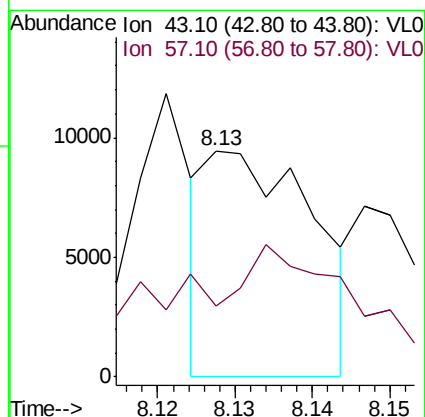
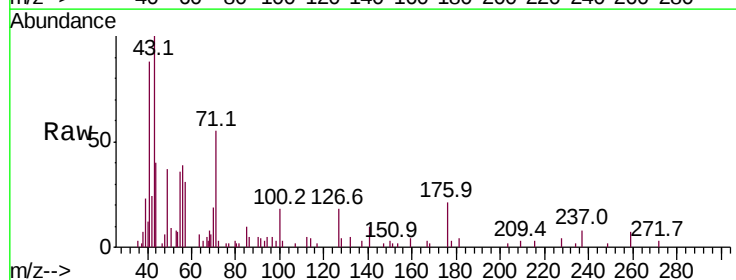
Acq: 8 Sep 2021 13:03

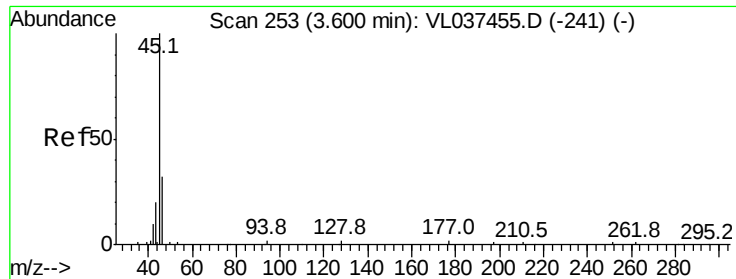
Tgt Ion: 43 Resp: 9072

Ion Ratio Lower Upper

43 100

57 136.8 41.0 61.6#

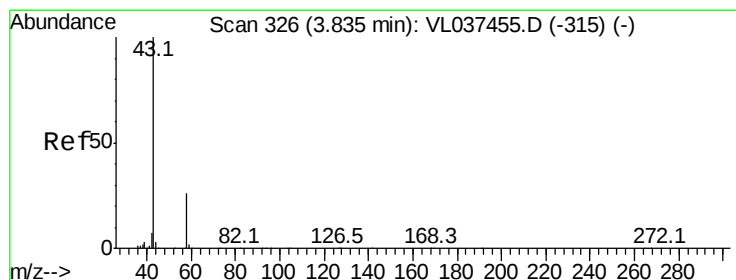
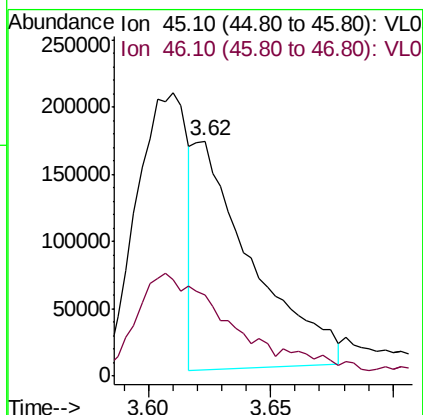
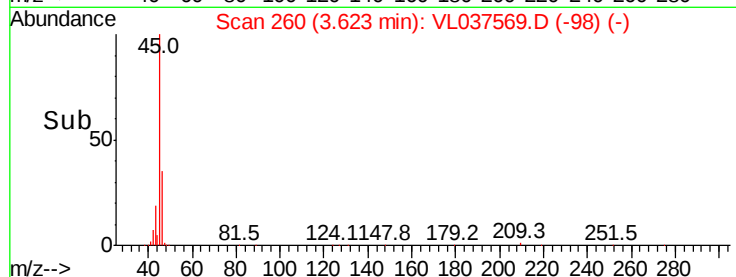
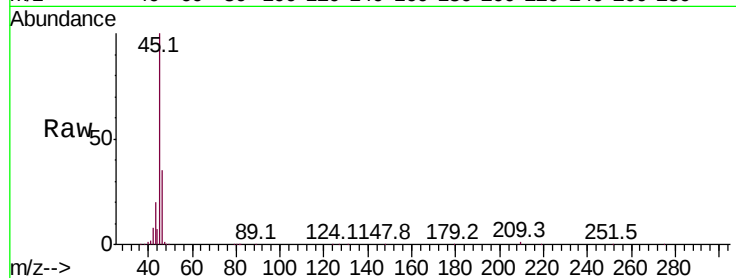




#13
Ethanol
Concen: 24.494 ppbv
RT: 3.62 min Scan# 260
Delta R.T. 0.02 min
Lab File: VL037569.D
Acq: 8 Sep 2021 13:03

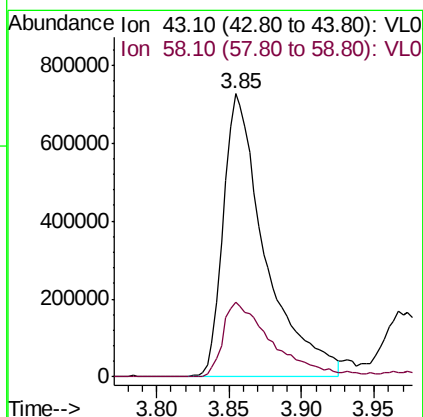
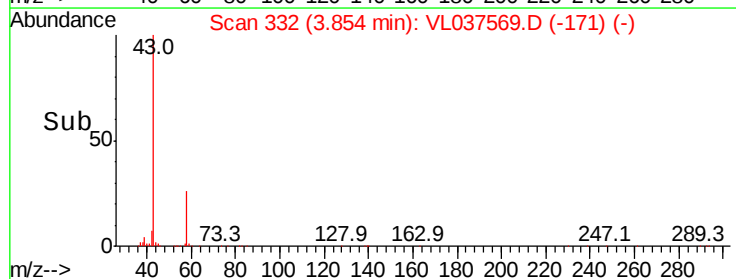
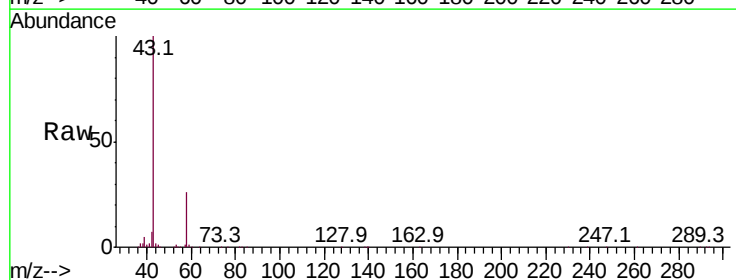
Instrument :
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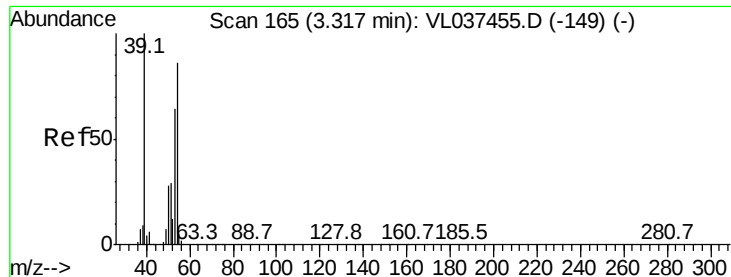
Tot Ion: 45 Resp: 280165
Ion Ratio Lower Upper
45 100
46 0.0 14.1 56.5#



#15
Acetone
Concen: 8.320 ppbv
RT: 3.85 min Scan# 332
Delta R.T. 0.02 min
Lab File: VL037569.D
Acq: 8 Sep 2021 13:03

Tgt Ion: 43 Resp: 1452615
Ion Ratio Lower Upper
43 100
58 31.5 24.8 37.2

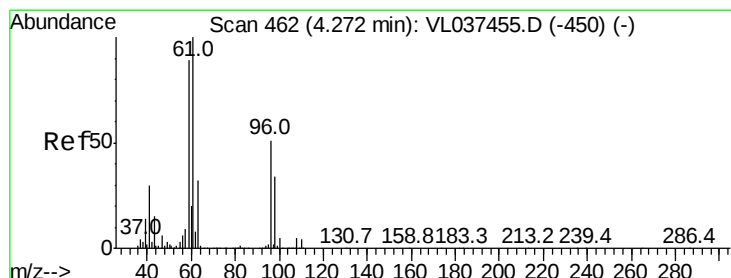
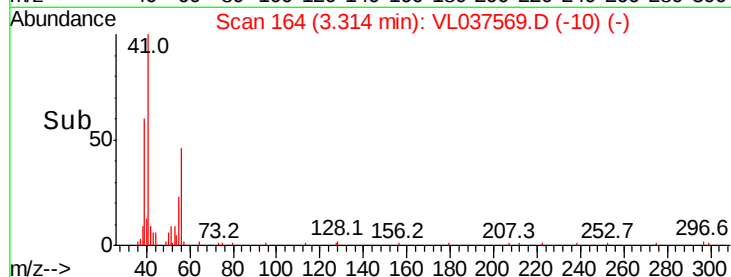
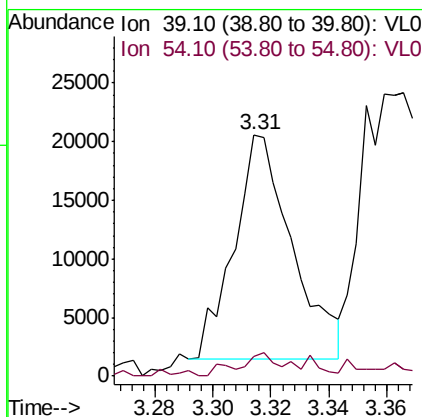
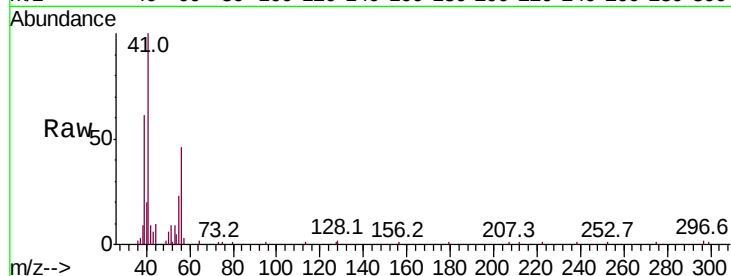




#16
 1,3-Butadiene
 Concen: 0.239 ppbv
 RT: 3.31 min Scan# 164
 Delta R.T. -0.00 min
 Lab File: VL037569.D
 Acq: 8 Sep 2021 13:03

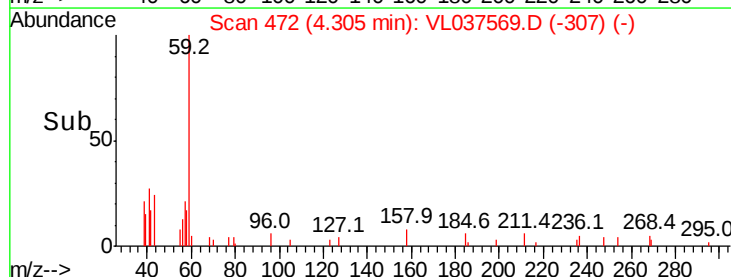
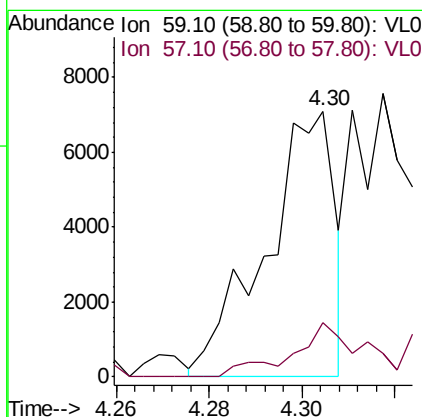
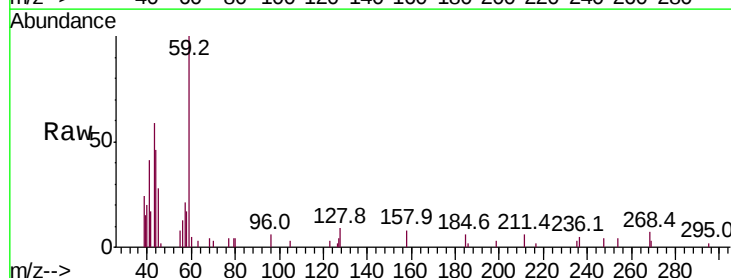
Instrument :
 MSVOA_L
 ClientSampled :
 SV-3DL

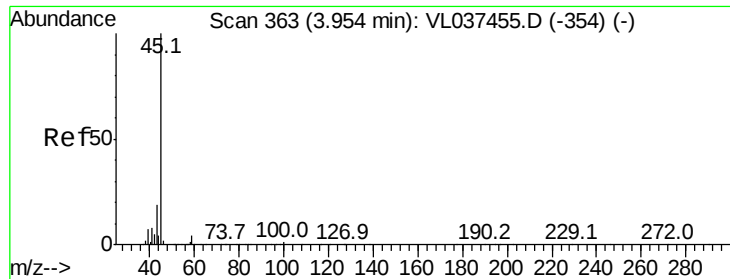
Tot Ion: 39 Resp: 26799
 Ion Ratio Lower Upper
 39 100
 54 11.4 63.7 95.5#



#17
 tert-Butyl alcohol
 Concen: 0.046 ppbv
 RT: 4.30 min Scan# 472
 Delta R.T. 0.03 min
 Lab File: VL037569.D
 Acq: 8 Sep 2021 13:03

Tgt Ion: 59 Resp: 7340
 Ion Ratio Lower Upper
 59 100
 57 24.5 8.3 12.5#



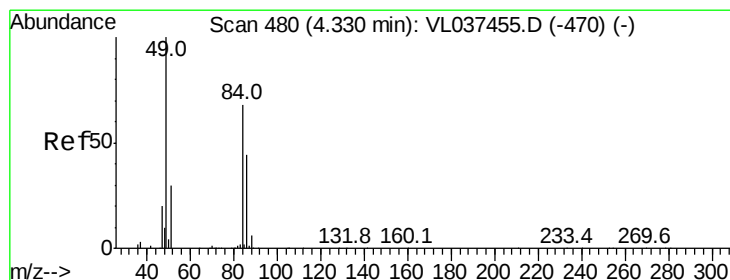
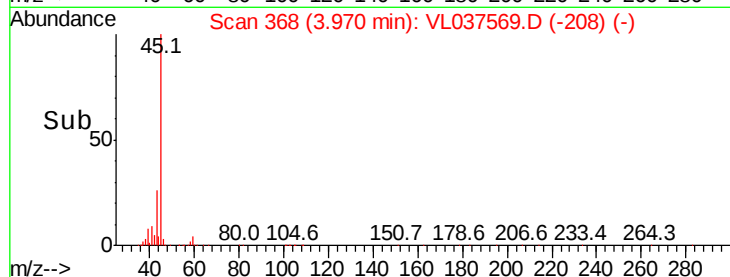
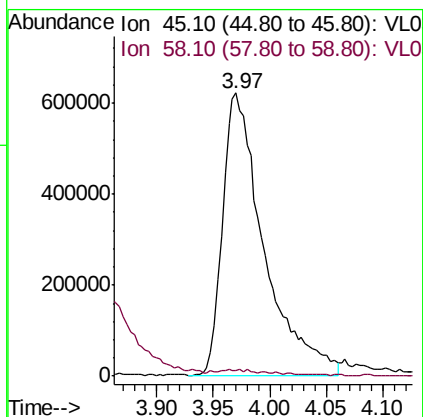
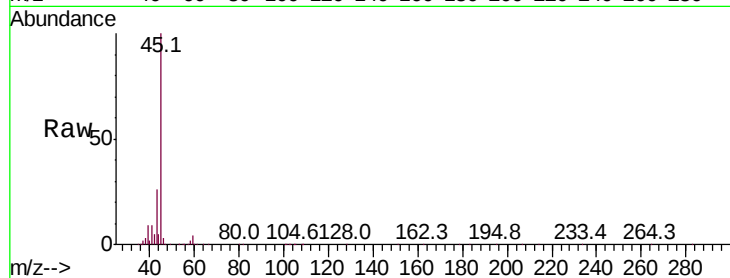


#19

Isopropyl Alcohol
 Concen: 15.771 ppbv
 RT: 3.97 min Scan# 368
 Delta R.T. 0.02 min
 Lab File: VL037569.D
 Acq: 8 Sep 2021 13:03

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-3DL

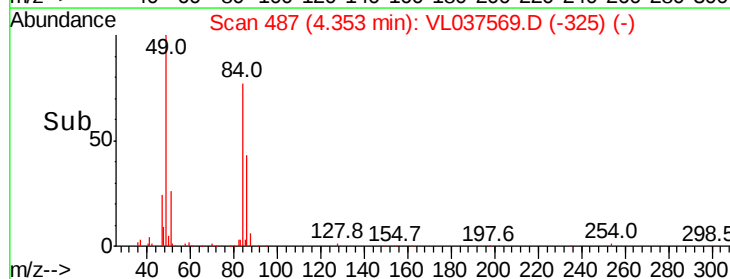
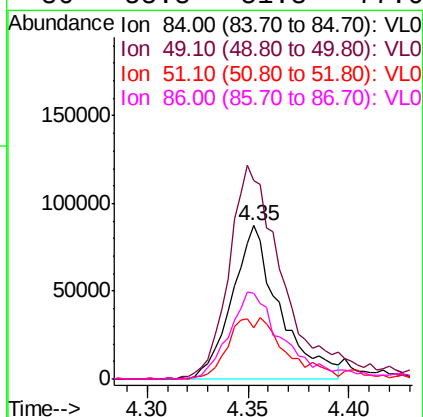
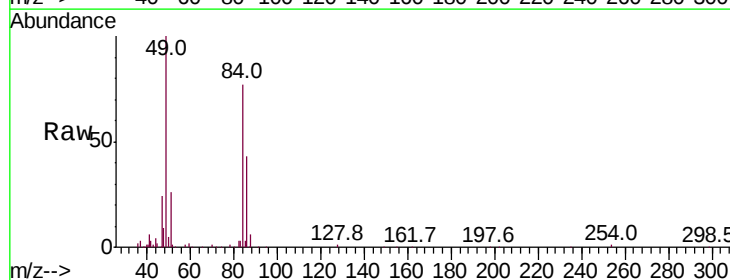
Tot Ion: 45 Resp: 1577579
 Ion Ratio Lower Upper
 45 100
 58 3.2 1.4 2.2#

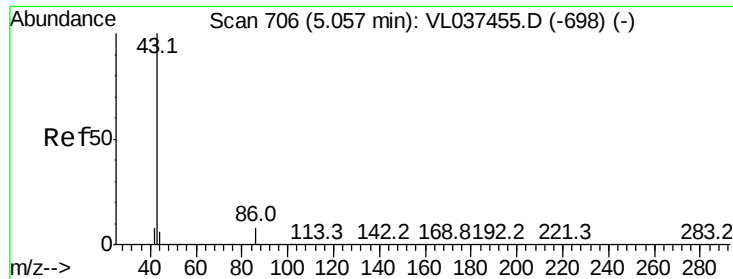


#20

Methylene Chloride
 Concen: 1.629 ppbv
 RT: 4.35 min Scan# 487
 Delta R.T. 0.02 min
 Lab File: VL037569.D
 Acq: 8 Sep 2021 13:03

Tgt Ion: 84 Resp: 142390
 Ion Ratio Lower Upper
 84 100
 49 128.7 118.2 177.2
 51 33.5 36.6 55.0#
 86 55.8 51.8 77.6

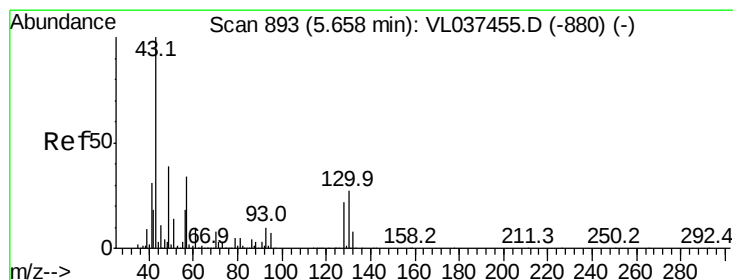
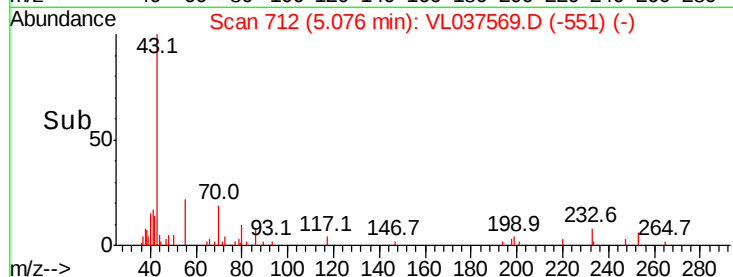
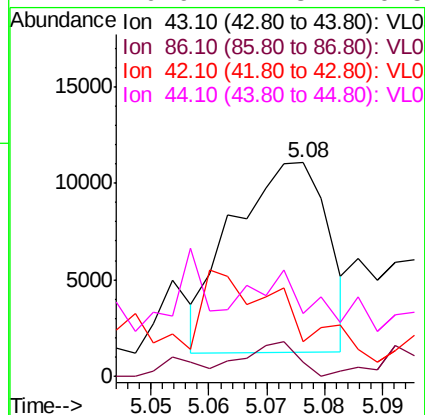
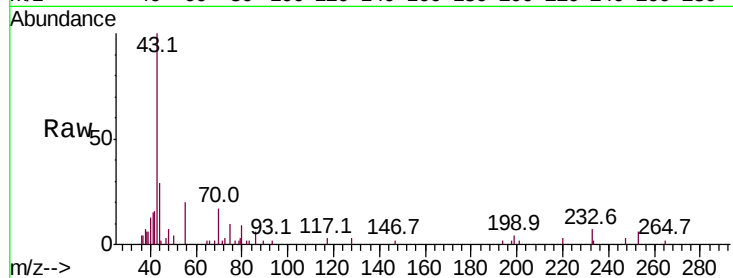




#23
 Vinyl Acetate
 Concen: 0.044 ppbv
 RT: 5.08 min Scan# 712
 Delta R.T. 0.02 min
 Lab File: VL037569.D
 Acq: 8 Sep 2021 13:03

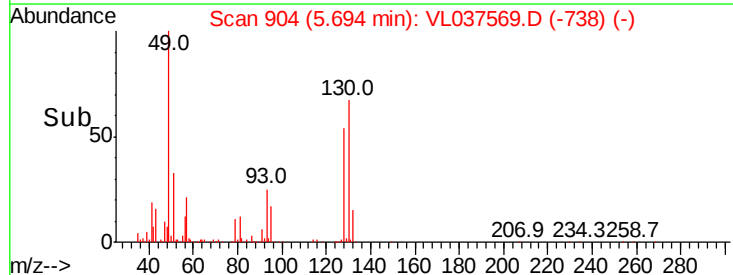
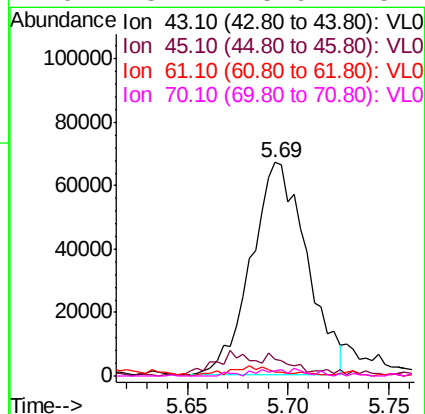
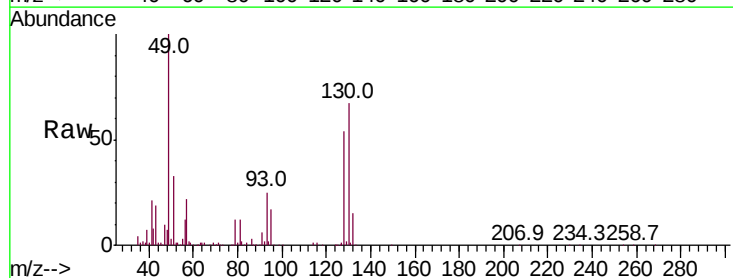
Instrument :
 MSVOA_L
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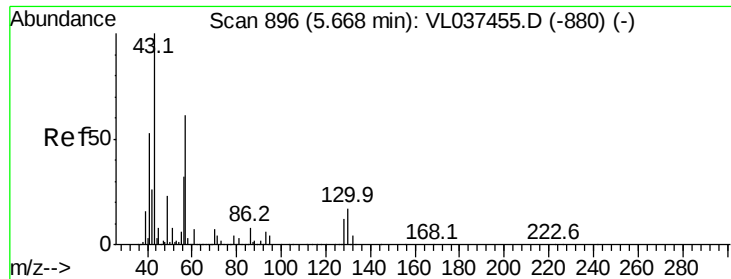
Tot Ion:	43	Resp:	11238
Ion	Ratio	Lower	Upper
43	100		
86	7.5	5.7	8.5
42	5.8	7.4	11.2#
44	10.9	4.3	6.5#



#25
 Ethyl Acetate
 Concen: 0.289 ppbv
 RT: 5.69 min Scan# 904
 Delta R.T. 0.04 min
 Lab File: VL037569.D
 Acq: 8 Sep 2021 13:03

Tgt Ion:	43	Resp:	128213
Ion	Ratio	Lower	Upper
43	100		
45	13.4	8.0	12.0#
61	4.3	8.0	12.0#
70	3.1	5.6	8.4#

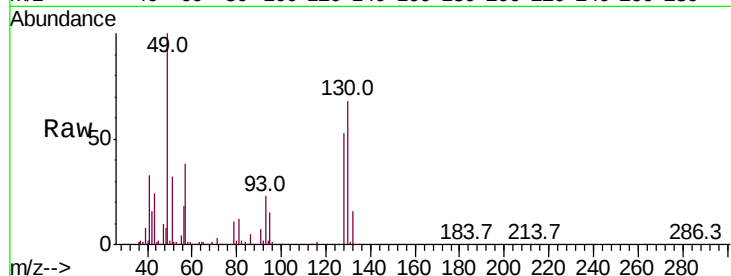




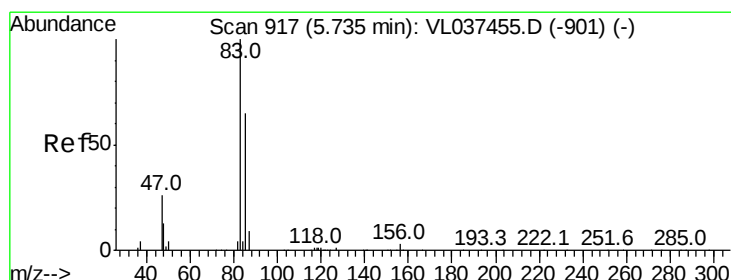
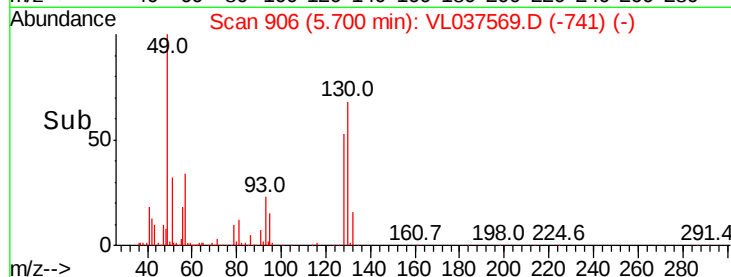
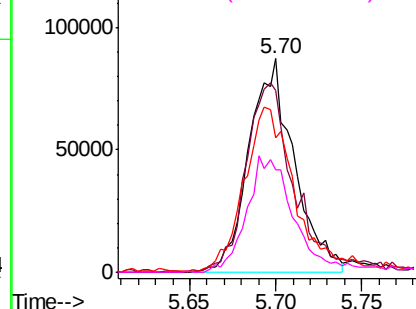
#26
Hexane
Concen: 0.736 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.03 min
Lab File: VL037569.D
Acq: 8 Sep 2021 13:03

Instrument :
MSVOA_L
ClientSampleId :
SV-3DL

Tot Ion: 57 Resp: 159472
Ion Ratio Lower Upper
57 100
41 98.5 72.3 108.5
43 87.7 172.3 258.5#
56 59.0 42.8 64.2

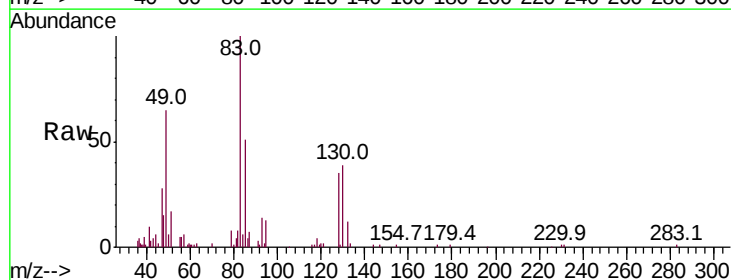


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

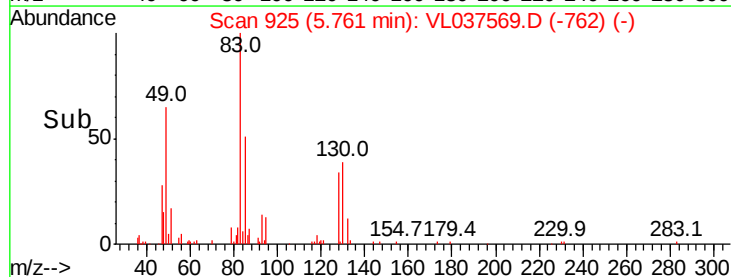
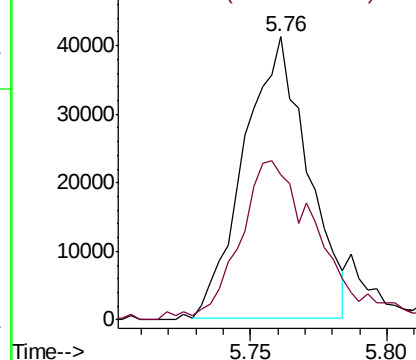


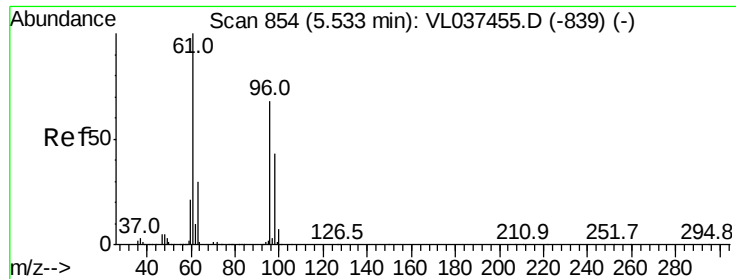
#29
Chloroform
Concen: 0.217 ppbv
RT: 5.76 min Scan# 925
Delta R.T. 0.03 min
Lab File: VL037569.D
Acq: 8 Sep 2021 13:03

Tgt Ion: 83 Resp: 66618
Ion Ratio Lower Upper
83 100
85 50.0 52.3 78.5#



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0



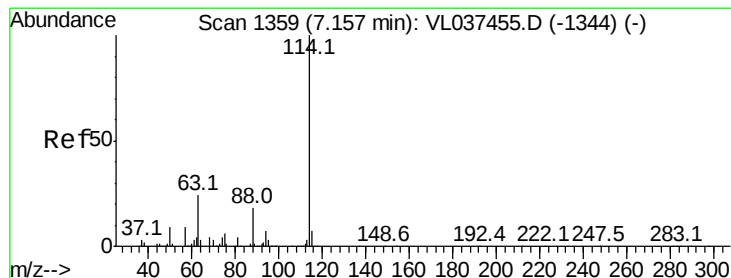
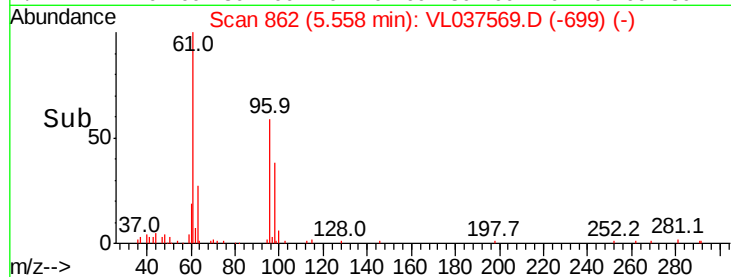
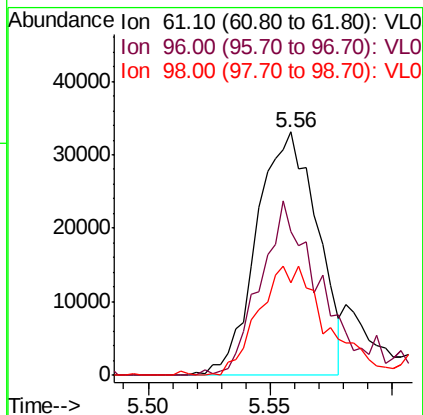
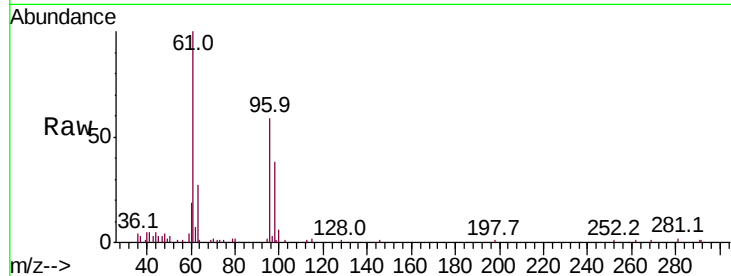


#31

cis-1,2-Dichloroethene
 Concen: 0.290 ppbv
 RT: 5.56 min Scan# 862
 Delta R.T. 0.03 min
 Lab File: VL037569.D
 Acq: 8 Sep 2021 13:03

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-3DL

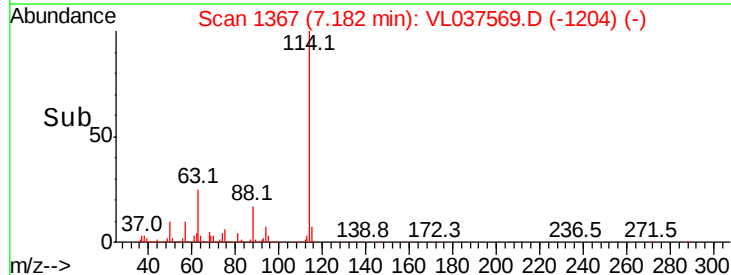
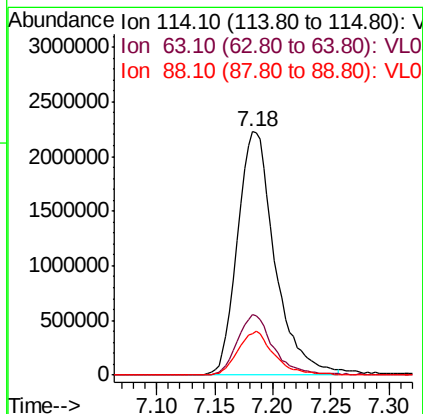
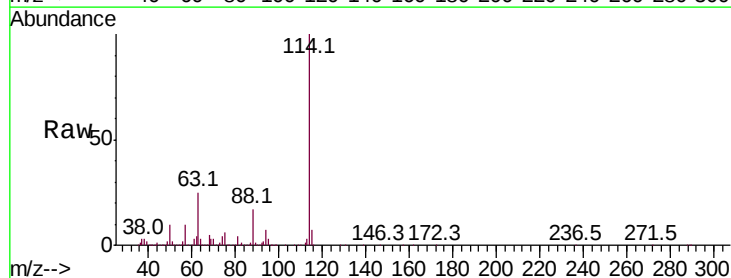
Tot Ion	61	Resp	56871
Ion	Ratio	Lower	Upper
61	100		
96	59.2	54.8	82.2
98	37.8	34.2	51.2

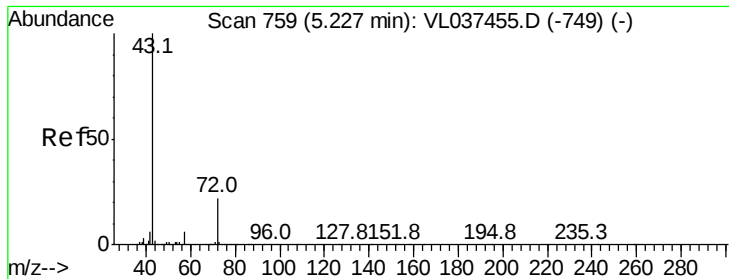


#33

1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. 0.03 min
 Lab File: VL037569.D
 Acq: 8 Sep 2021 13:03

Tgt Ion	114	Resp	4978546
Ion	Ratio	Lower	Upper
114	100		
63	24.2	19.3	28.9
88	17.7	14.2	21.4

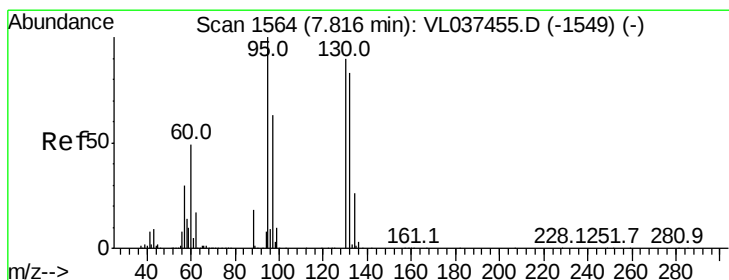
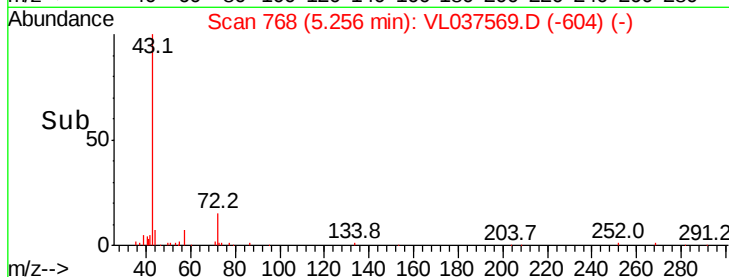
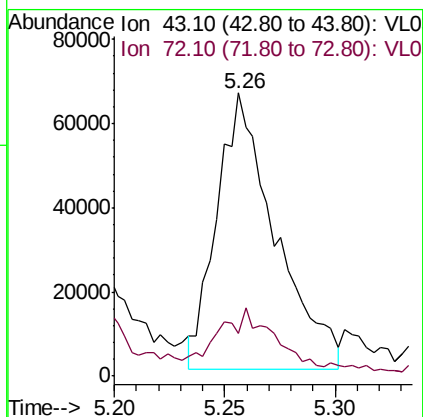
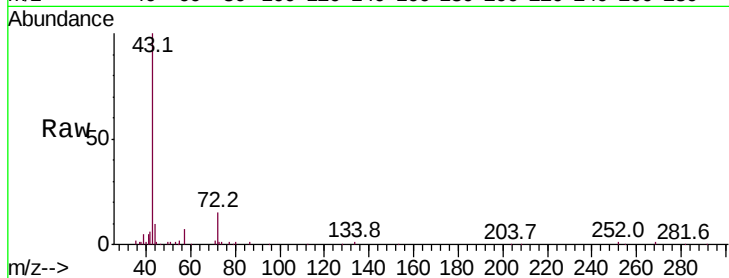




#34
2-Butanone
Concen: 0.594 ppbv
RT: 5.26 min Scan# 768
Delta R.T. 0.03 min
Lab File: VL037569.D
Acq: 8 Sep 2021 13:03

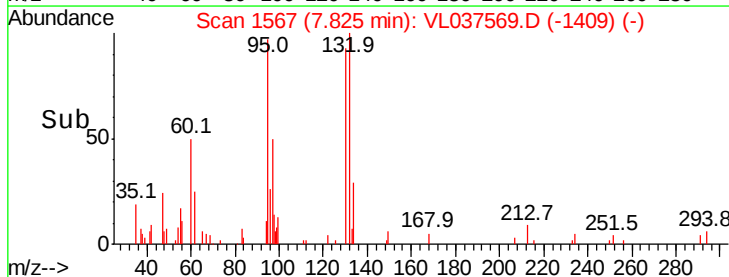
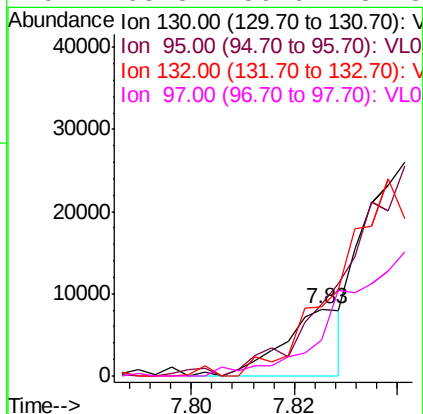
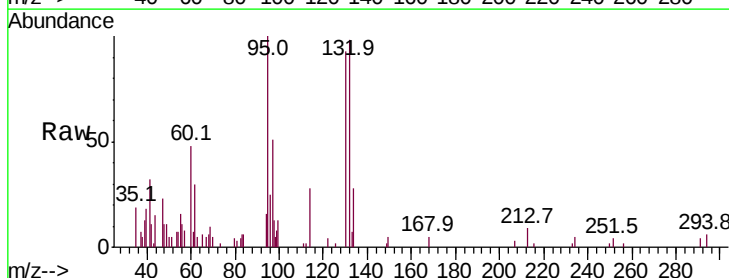
Instrument :
MSVOA_L
ClientSampleId :
SV-3DL

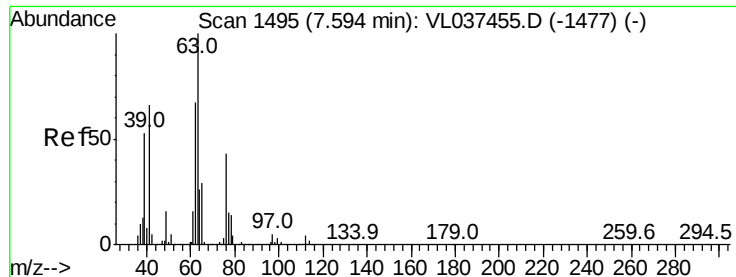
Tot Ion: 43 Resp: 120860
Ion Ratio Lower Upper
43 100
72 30.4 17.4 26.0#



#38
Trichloroethene
Concen: 0.038 ppbv
RT: 7.83 min Scan# 1567
Delta R.T. 0.01 min
Lab File: VL037569.D
Acq: 8 Sep 2021 13:03

Tgt Ion:130 Resp: 6470
Ion Ratio Lower Upper
130 100
95 97.9 89.2 133.8
132 102.6 74.0 111.0
97 68.8 56.6 84.8

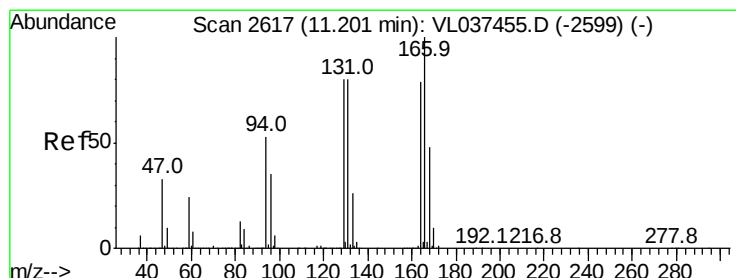
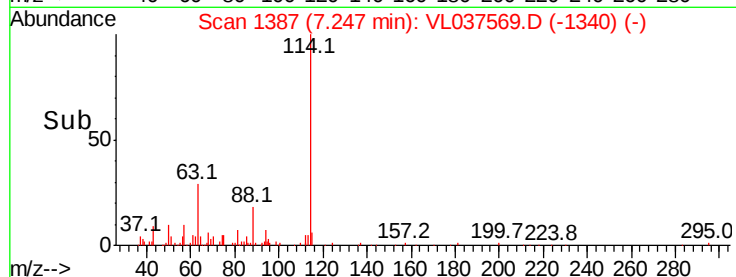
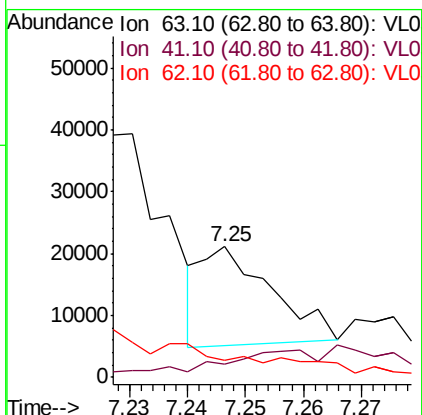
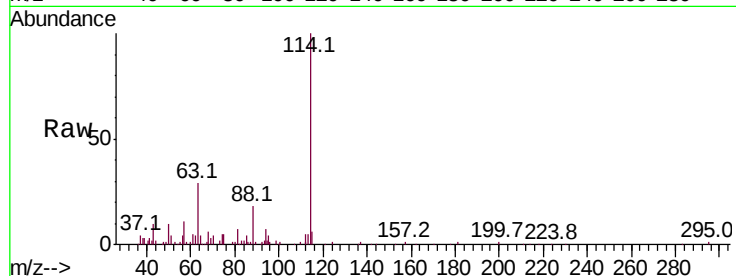




#39
 1,2-Dichloropropane
 Concen: 0.083 ppbv
 RT: 7.25 min Scan# 1387
 Delta R.T. -0.35 min
 Lab File: VL037569.D
 Acq: 8 Sep 2021 13:03

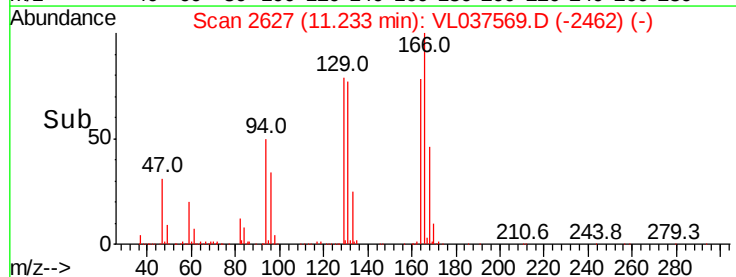
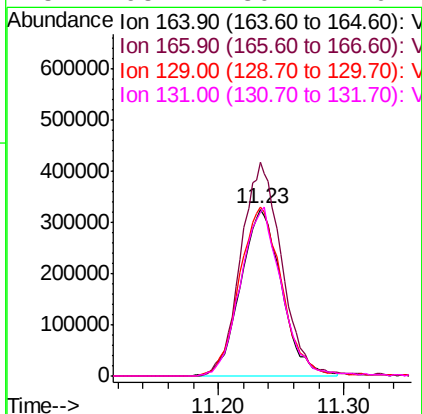
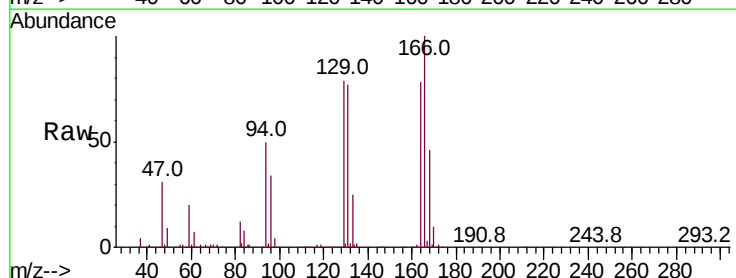
Instrument :
 MSVOA_L
 ClientSampleID :
 SV-3DL

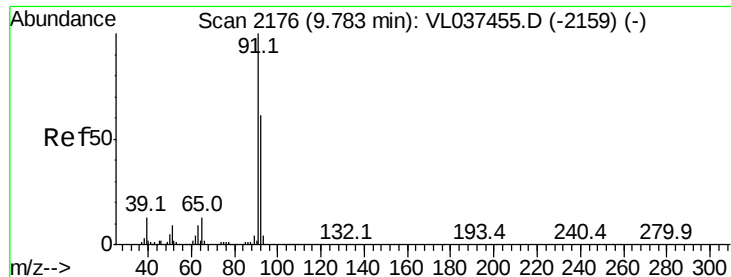
Tot Ion: 63 Resp: 13313
 Ion Ratio Lower Upper
 63 100
 41 8.9 52.4 78.6#
 62 2.4 53.6 80.4#



#52
 Tetrachloroethene
 Concen: 4.288 ppbv
 RT: 11.23 min Scan# 2627
 Delta R.T. 0.03 min
 Lab File: VL037569.D
 Acq: 8 Sep 2021 13:03

Tgt Ion: 164 Resp: 735348
 Ion Ratio Lower Upper
 164 100
 166 128.0 100.7 151.1
 129 101.4 80.9 121.3
 131 98.1 80.2 120.4





#53

Toluene

Concen: 0.624 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. 0.04 min

Lab File: VL037569.D

Acq: 8 Sep 2021 13:03

Instrument :

MSVOA_L

ClientSampleId :

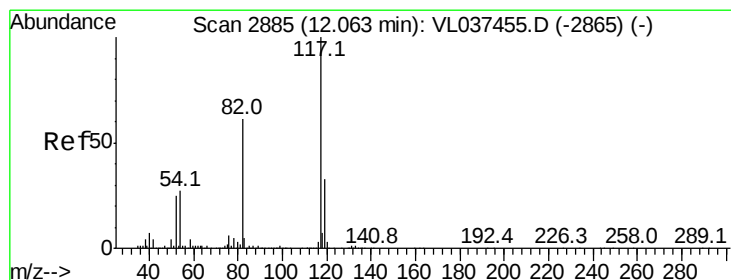
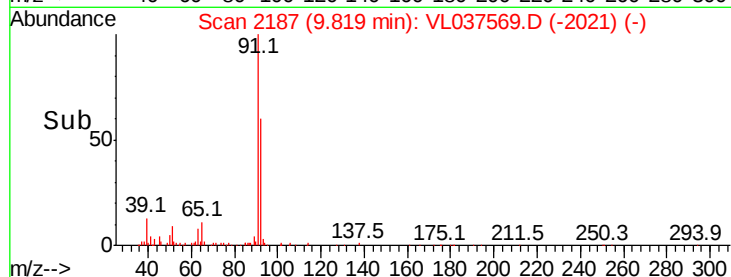
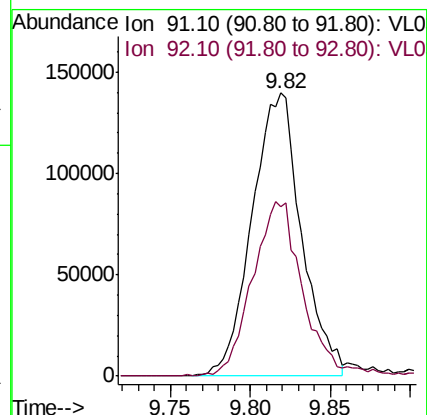
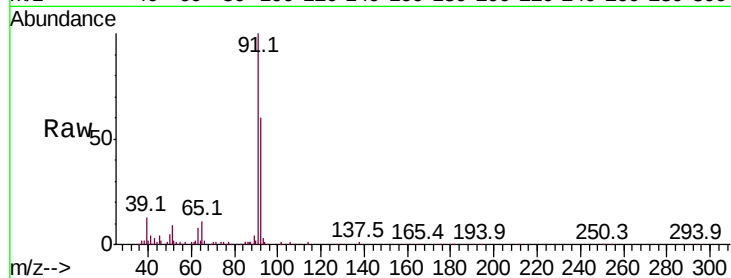
SV-3DL

Tot Ion: 91 Resp: 298202

Ion Ratio Lower Upper

91 100

92 63.1 48.8 73.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2895

Delta R.T. 0.03 min

Lab File: VL037569.D

Acq: 8 Sep 2021 13:03

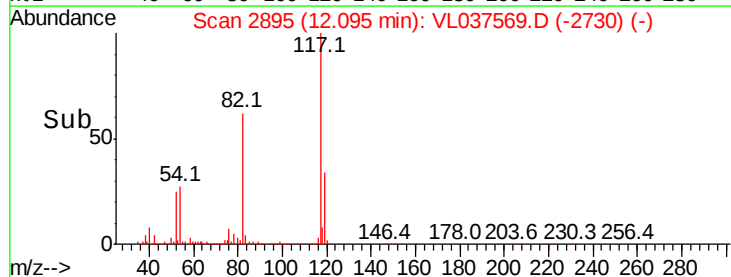
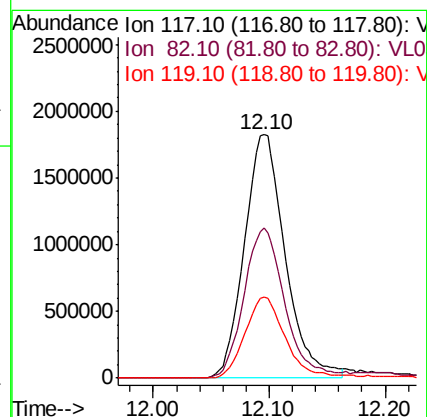
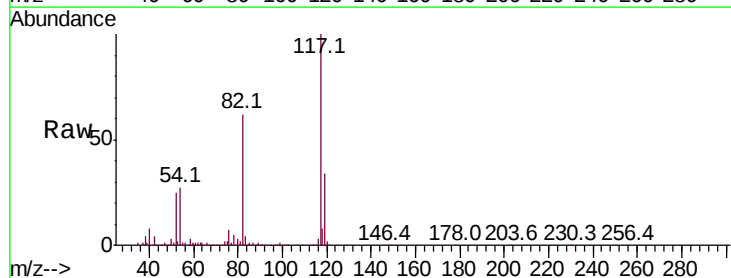
Tgt Ion: 117 Resp: 4477211

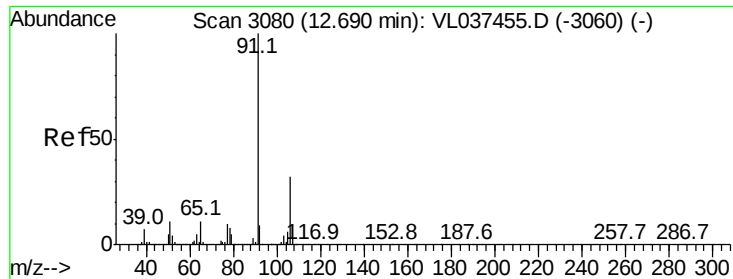
Ion Ratio Lower Upper

117 100

82 62.4 52.9 79.3

119 33.6 24.8 37.2





#58

Ethyl Benzene

Concen: 0.344 ppbv

RT: 12.98 min Scan# 3169

Delta R.T. 0.29 min

Lab File: VL037569.D

Acq: 8 Sep 2021 13:03

Instrument :

MSVOA_L

ClientSampleId :

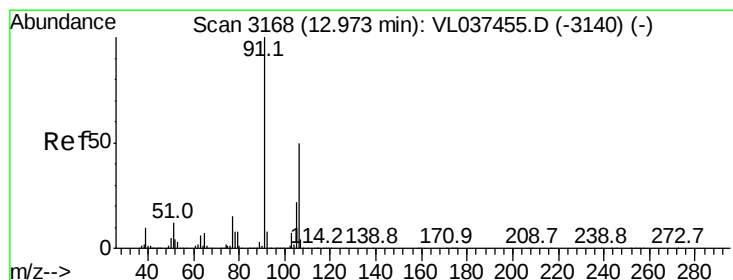
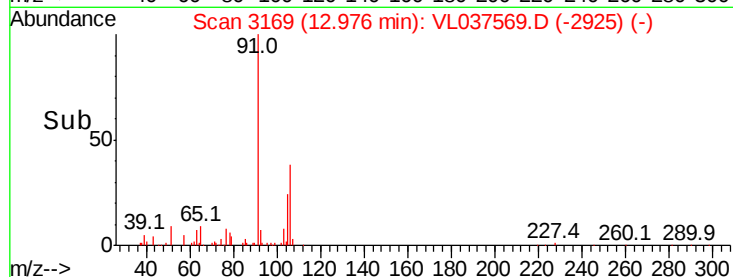
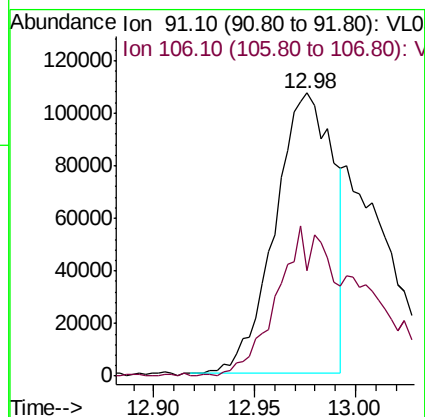
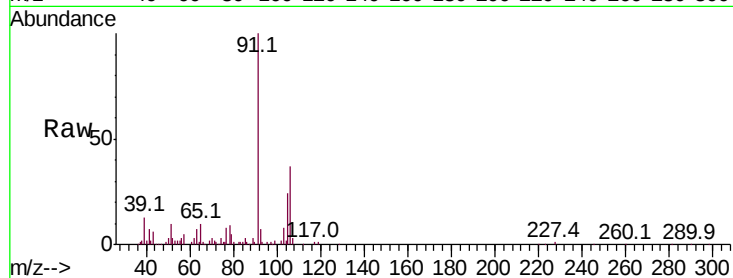
SV-3DL

Tot Ion: 91 Resp: 213951

Ion Ratio Lower Upper

91 100

106 37.3 25.7 38.5



#59

m/p-Xylene

Concen: 0.216 ppbv

RT: 13.00 min Scan# 3175

Delta R.T. 0.02 min

Lab File: VL037569.D

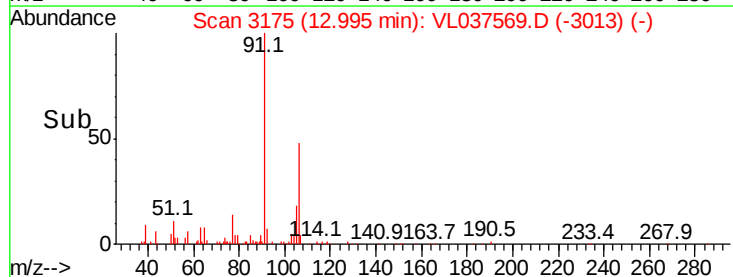
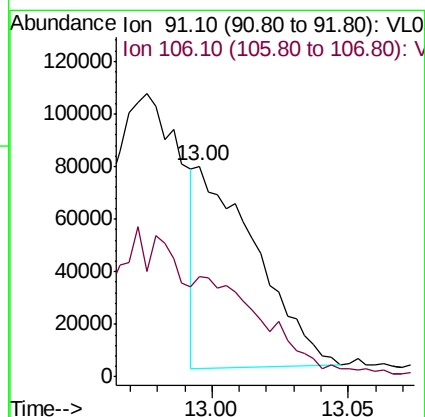
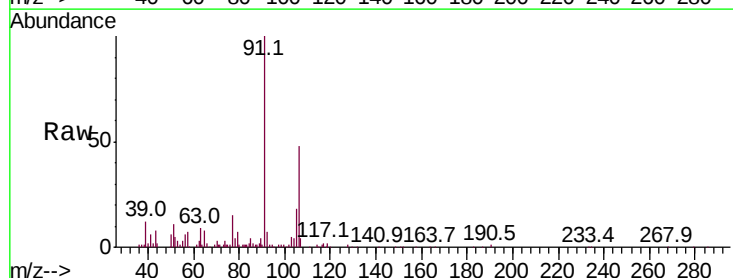
Acq: 8 Sep 2021 13:03

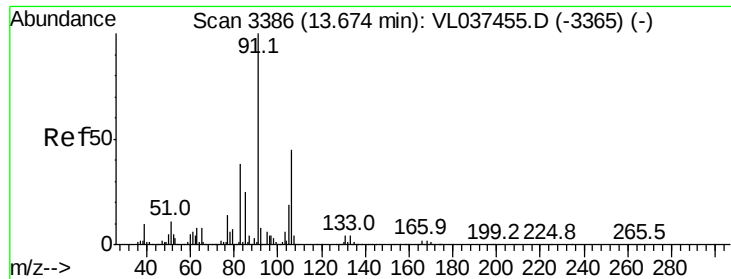
Tgt Ion: 91 Resp: 116131

Ion Ratio Lower Upper

91 100

106 0.0 36.9 55.3#

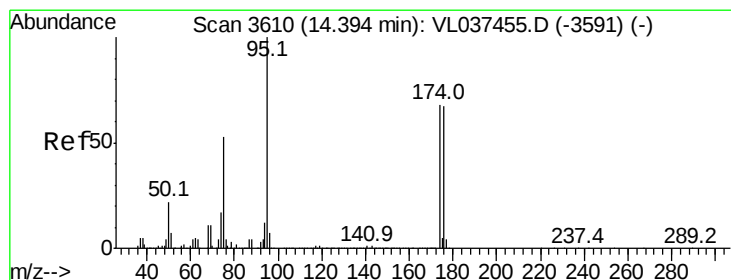
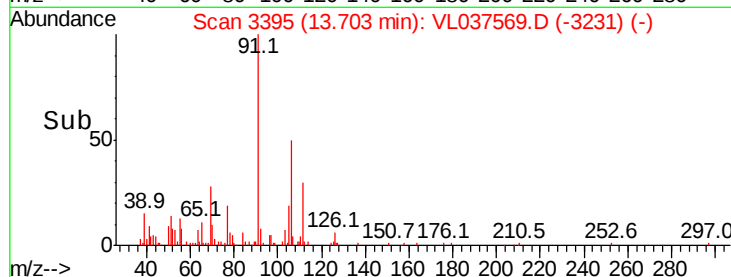
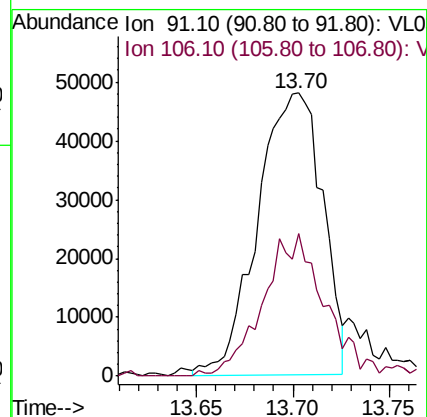
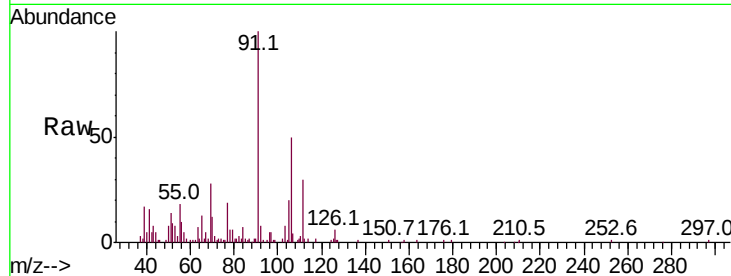




#60
o-Xylene
Concen: 0.222 ppbv
RT: 13.70 min Scan# 3395
Delta R.T. 0.03 min
Lab File: VL037569.D
Acq: 8 Sep 2021 13:03

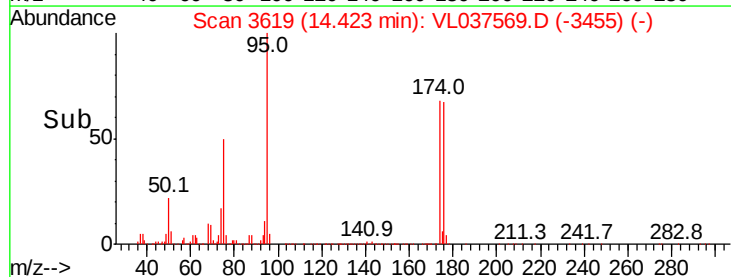
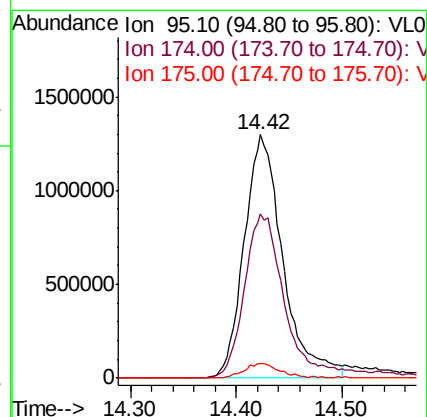
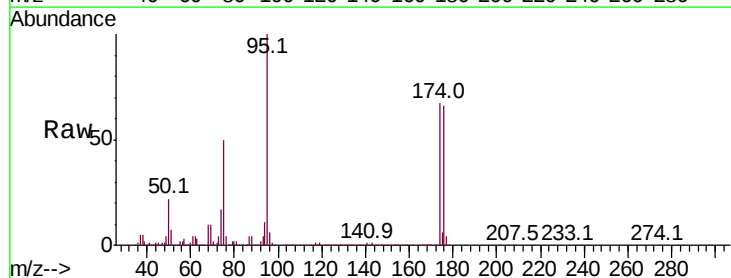
Instrument :
MSVOA_L
ClientSampled :
SV-3DL

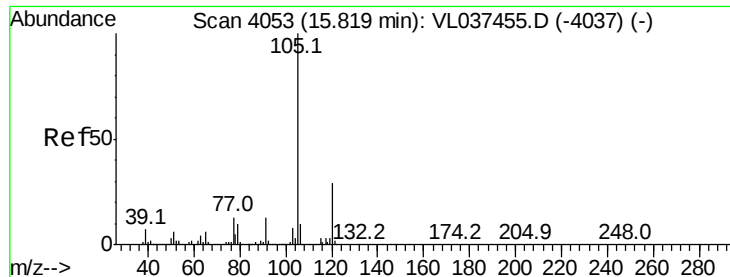
Tot Ion: 91 Resp: 111794
Ion Ratio Lower Upper
91 100
106 51.8 23.7 71.1



#68
1-Bromo-4-Fluorobenzene
Concen: 10.409 ppbv
RT: 14.42 min Scan# 3619
Delta R.T. 0.03 min
Lab File: VL037569.D
Acq: 8 Sep 2021 13:03

Tgt Ion: 95 Resp: 3310946
Ion Ratio Lower Upper
95 100
174 74.4 59.6 89.4
175 6.1 4.6 7.0





#72

4-Ethyltoluene

Concen: 0.033 ppbv

RT: 15.86 min Scan# 4065

Delta R.T. 0.04 min

Lab File: VL037569.D

Acq: 8 Sep 2021 13:03

Instrument :

MSVOA_L

ClientSampleId :

SV-3DL

Tot Ion:105 Resp: 19508

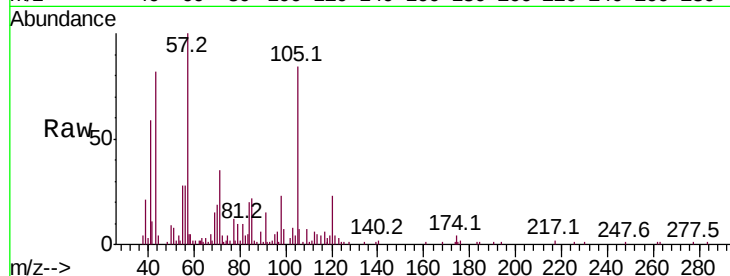
Ion Ratio Lower Upper

105 100

120 107.6 24.7 37.1#

91 0.0 9.8 14.8#

77 0.0 10.6 15.8#

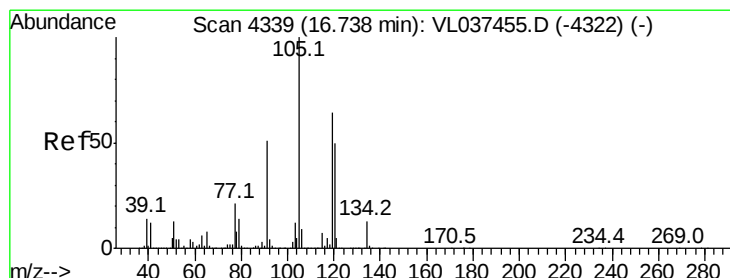
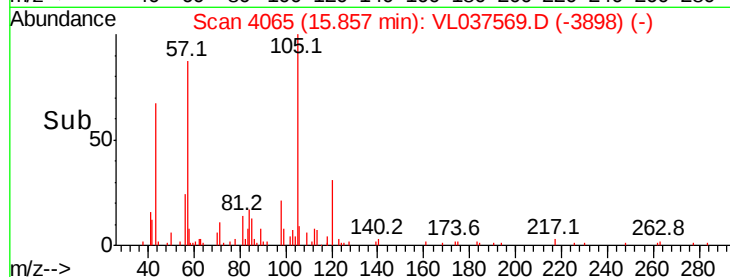
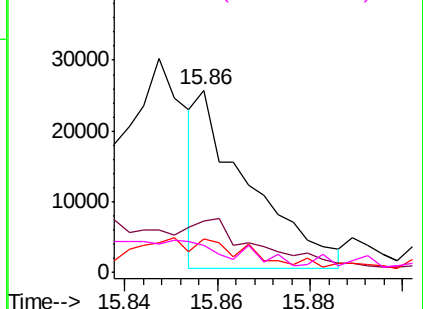


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#74

1,2,4-Trimethylbenzene

Concen: 0.073 ppbv

RT: 16.78 min Scan# 4352

Delta R.T. 0.04 min

Lab File: VL037569.D

Acq: 8 Sep 2021 13:03

Tgt Ion:105 Resp: 42905

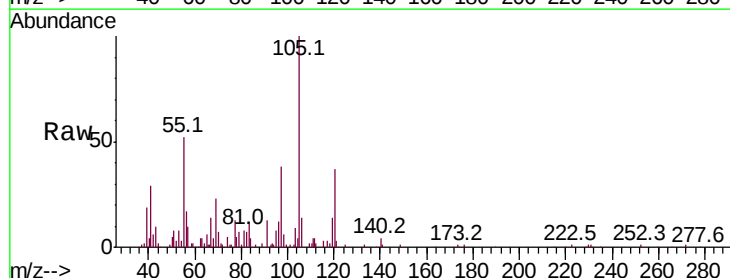
Ion Ratio Lower Upper

105 100

120 38.9 40.4 60.6#

91 12.3 44.6 67.0#

77 9.4 17.8 26.6#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

