

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100422\
 Data File : VL039685.D
 Acq On : 4 Oct 2022 17:50
 Operator : SY/AP
 Sample : N4885-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 1DUP

Quant Time: Oct 05 04:41:13 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Sep 19 14:26:28 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

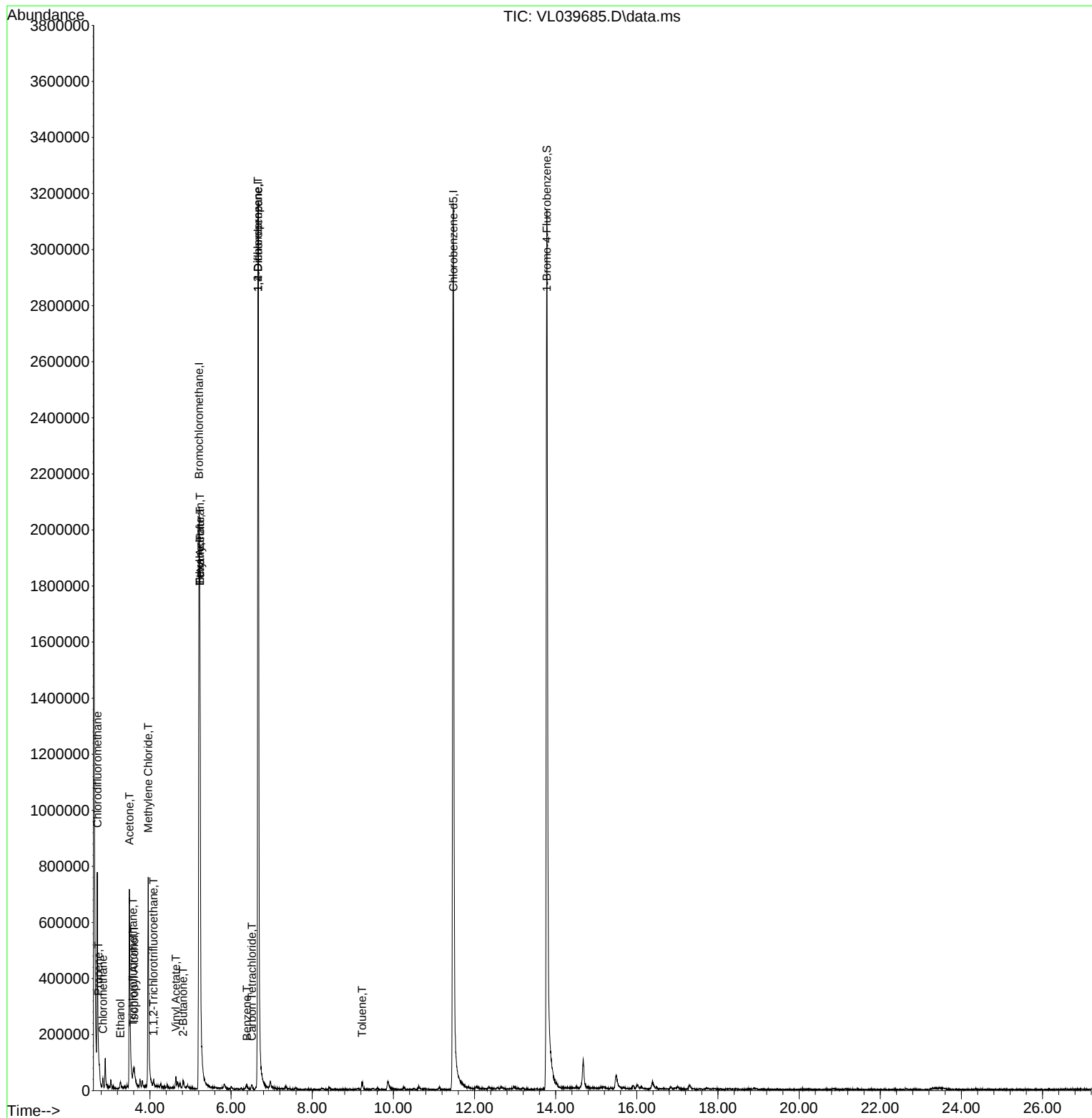
Internal Standards						
1) Bromochloromethane	5.211	49	943069	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.668	114	2497969	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.478	117	2144734	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	1548938	9.675	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.700%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	2.703	51	757641	6.770	ppbv	96
4) Chloromethane	2.841	50	28705	0.425	ppbv #	81
9) Propene	2.729	41	12181	0.238	ppbv	89
11) Trichlorofluoromethane	3.584	101	31365	0.232	ppbv #	65
12) 1,1,2-Trichlorotrifluo...	4.086	101	3673	0.036	ppbv #	13
13) Ethanol	3.269	45	13274	3.408	ppbv	64
15) Acetone	3.494	43	791649	7.544	ppbv	93
19) Isopropyl Alcohol	3.613	45	49943	0.934	ppbv #	88
20) Methylene Chloride	3.957	84	252179	5.198	ppbv	99
23) Vinyl Acetate	4.639	43	38781	0.818	ppbv #	86
25) Ethyl Acetate	5.234	43	325403	1.422	ppbv #	76
26) Hexane	5.234	57	452640	4.661	ppbv #	39
34) 2-Butanone	4.816	43	13579	0.111	ppbv #	53
35) Carbon Tetrachloride	6.516	117	4758	0.036	ppbv	84
36) Benzene	6.391	78	9836	0.052	ppbv #	84
39) 1,2-Dichloropropane	6.664	63	590943	8.013	ppbv #	25
41) Tetrahydrofuran	5.234	42	184767	2.455	ppbv #	47
53) Toluene	9.227	91	8605	0.041	ppbv #	5

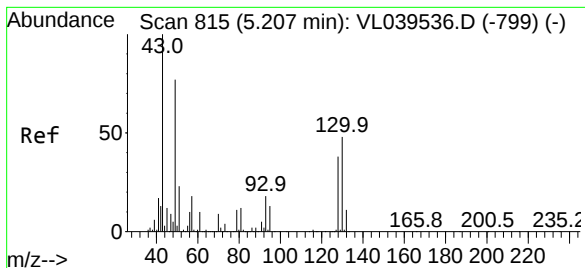
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 05 04:41:13 2022
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Mon Sep 19 14:26:28 2022
Response via : Initial Calibration

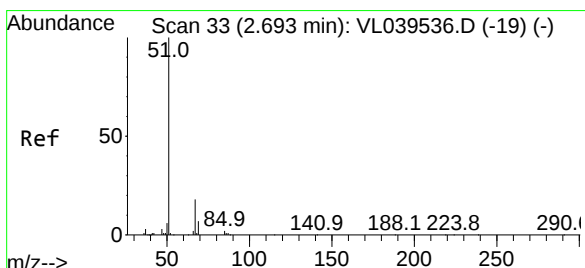
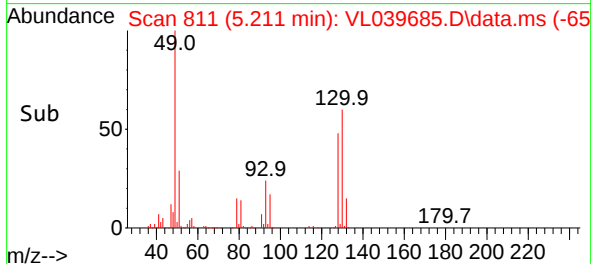
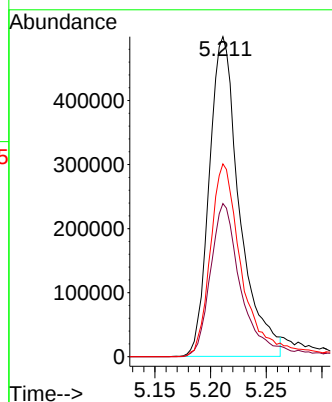
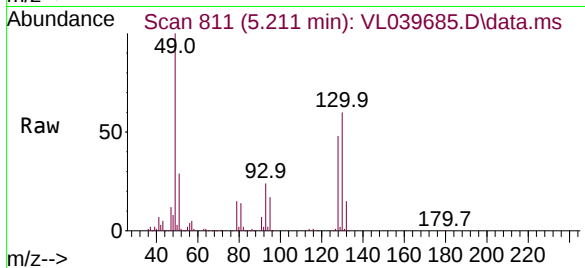




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.211 min Scan# 81
Delta R.T. 0.004 min
Lab File: VL039685.D
Acq: 4 Oct 2022 17:50

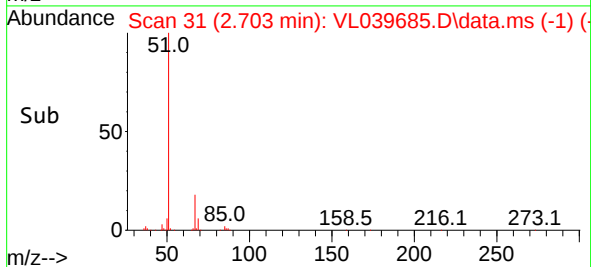
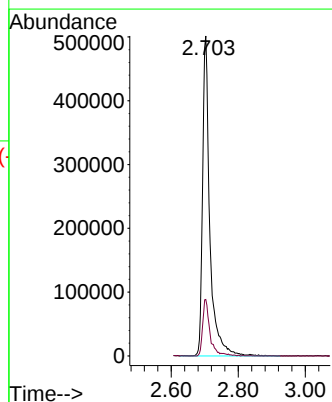
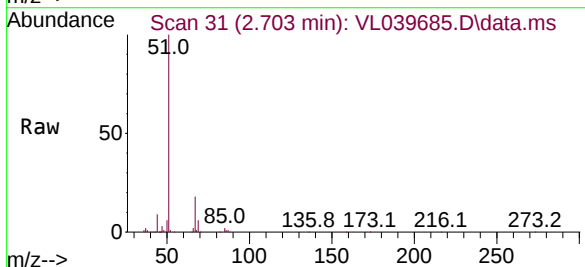
Instrument :
MSVOA_L
ClientSampleId :
1DUP

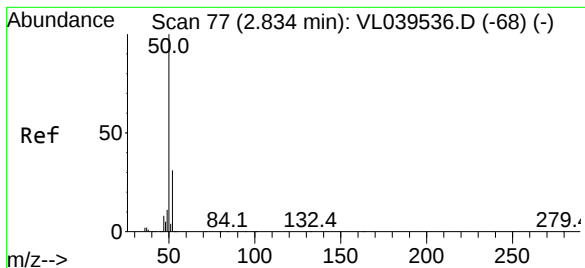
Tgt Ion: 49 Resp: 943069
Ion Ratio Lower Upper
49 100
128 51.3 26.7 80.0
130 66.3 34.3 102.8



#3
Chlorodifluoromethane
Concen: 6.770 ppbv
RT: 2.703 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL039685.D
Acq: 4 Oct 2022 17:50

Tgt Ion: 51 Resp: 757641
Ion Ratio Lower Upper
51 100
67 18.0 15.7 23.5

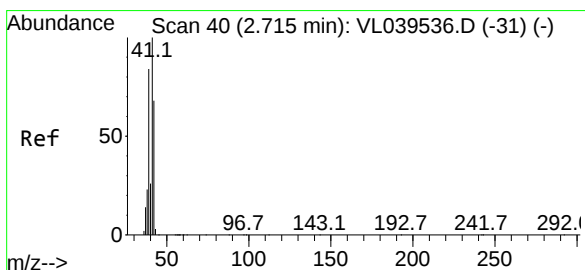
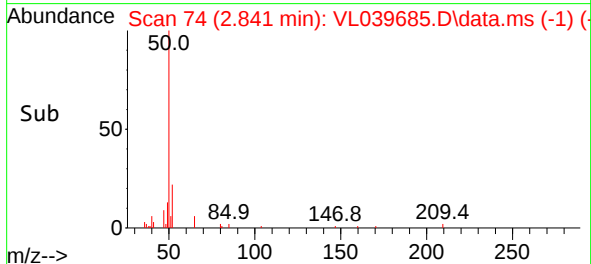
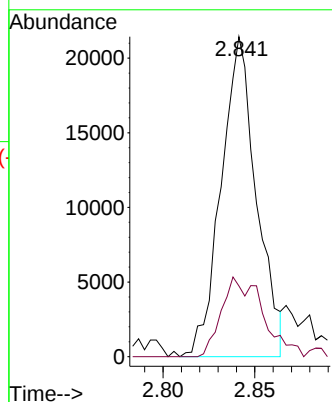
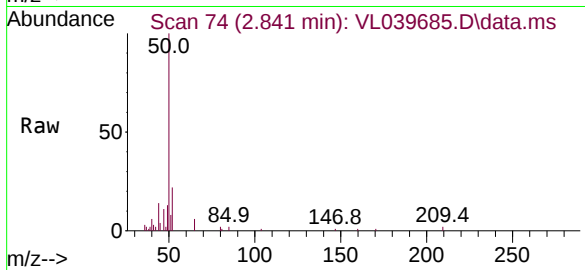




#4
Chloromethane
Concen: 0.425 ppbv
RT: 2.841 min Scan# 74
Delta R.T. 0.007 min
Lab File: VL039685.D
Acq: 4 Oct 2022 17:50

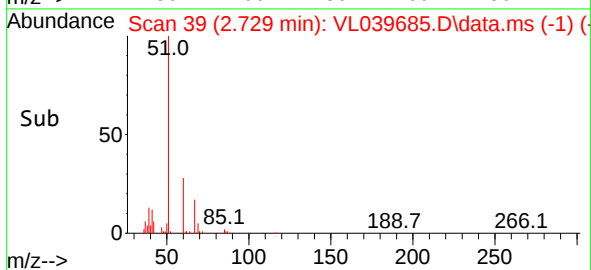
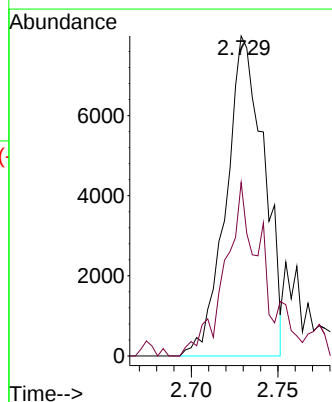
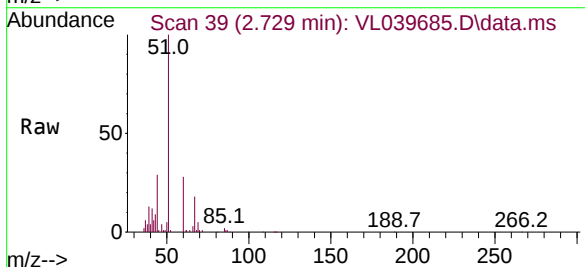
Instrument :
MSVOA_L
ClientSampleId :
1DUP

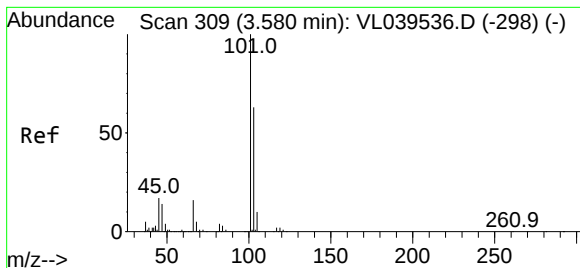
Tgt Ion: 50 Resp: 28705
Ion Ratio Lower Upper
50 100
52 22.1 26.5 39.7#



#9
Propene
Concen: 0.238 ppbv
RT: 2.729 min Scan# 39
Delta R.T. 0.013 min
Lab File: VL039685.D
Acq: 4 Oct 2022 17:50

Tgt Ion: 41 Resp: 12181
Ion Ratio Lower Upper
41 100
42 59.9 55.2 82.8

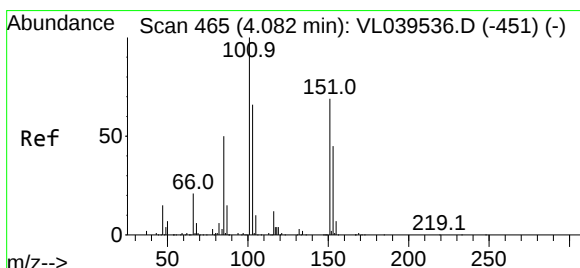
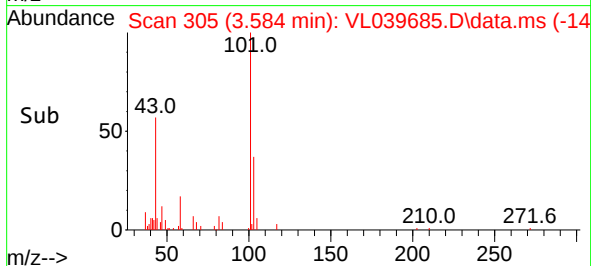
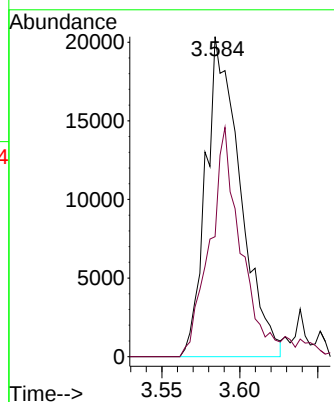
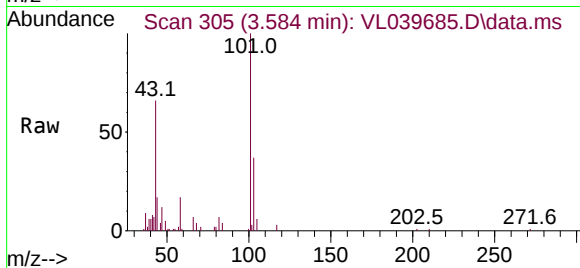




#11
 Trichlorofluoromethane
 Concen: 0.232 ppbv
 RT: 3.584 min Scan# 309
 Delta R.T. 0.004 min
 Lab File: VL039685.D
 Acq: 4 Oct 2022 17:50

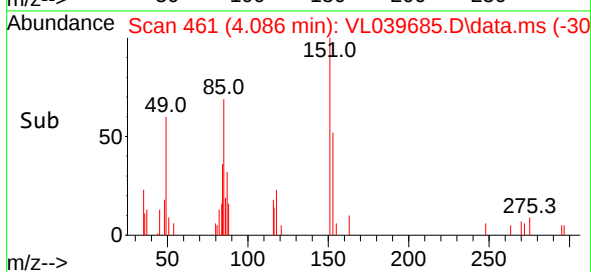
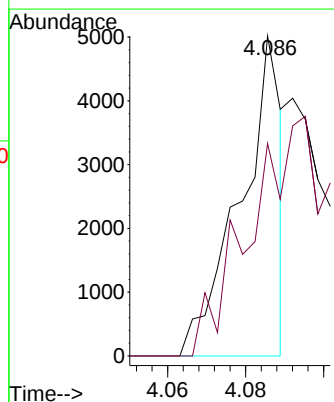
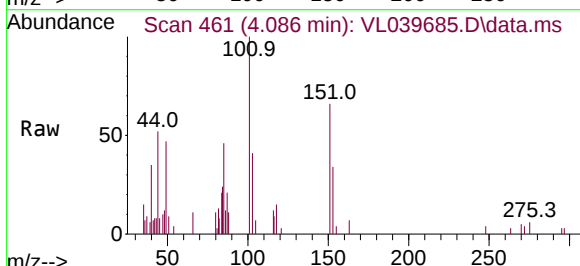
Instrument :
 MSVOA_L
 ClientSampleId :
 1DUP

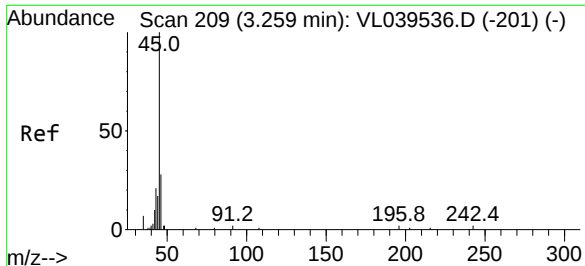
Tgt Ion:101 Resp: 31365
 Ion Ratio Lower Upper
 101 100
 103 37.5 51.8 77.8#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.036 ppbv
 RT: 4.086 min Scan# 461
 Delta R.T. 0.004 min
 Lab File: VL039685.D
 Acq: 4 Oct 2022 17:50

Tgt Ion:101 Resp: 3673
 Ion Ratio Lower Upper
 101 100
 151 0.0 58.9 88.3#

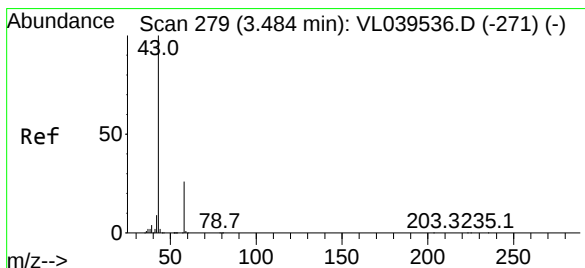
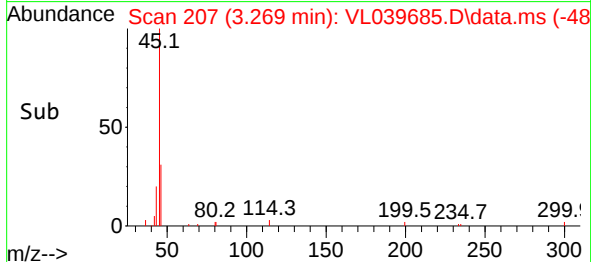
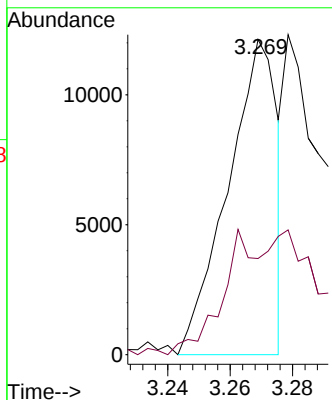
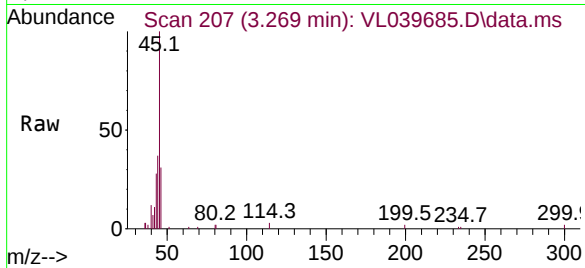




#13
Ethanol
Concen: 3.408 ppbv
RT: 3.269 min Scan# 209
Delta R.T. 0.010 min
Lab File: VL039685.D
Acq: 4 Oct 2022 17:50

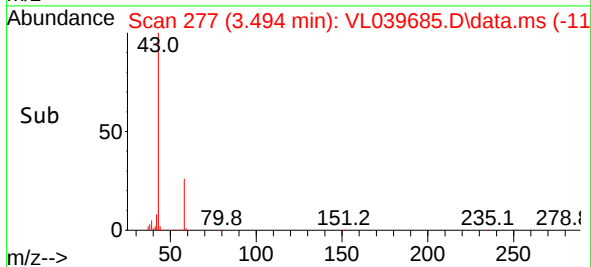
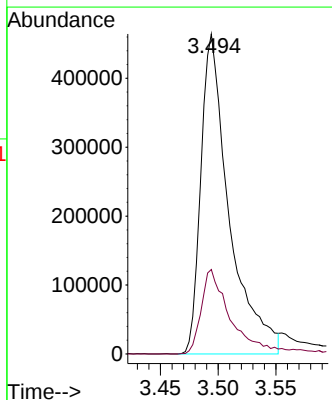
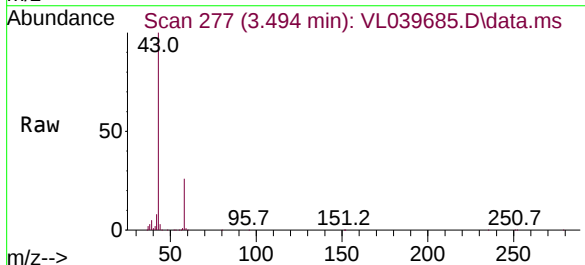
Instrument :
MSVOA_L
ClientSampleId :
1DUP

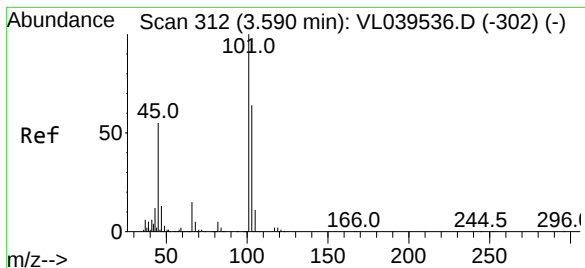
Tgt Ion: 45 Resp: 13274
Ion Ratio Lower Upper
45 100
46 83.4 22.8 91.2



#15
Acetone
Concen: 7.544 ppbv
RT: 3.494 min Scan# 277
Delta R.T. 0.010 min
Lab File: VL039685.D
Acq: 4 Oct 2022 17:50

Tgt Ion: 43 Resp: 791649
Ion Ratio Lower Upper
43 100
58 29.6 21.0 31.6





#19

Isopropyl Alcohol

Concen: 0.934 ppbv

RT: 3.613 min Scan# 312

Delta R.T. 0.023 min

Lab File: VL039685.D

Acq: 4 Oct 2022 17:50

Instrument :

MSVOA_L

ClientSampleId :

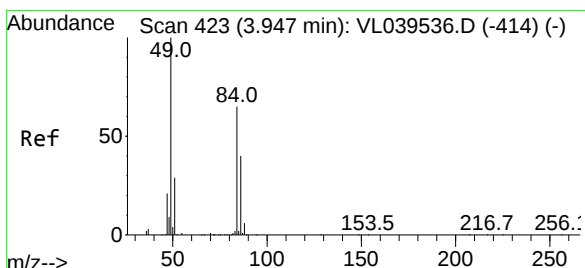
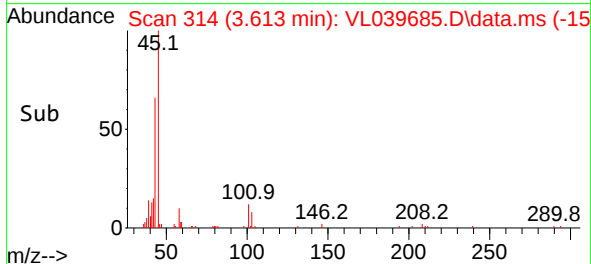
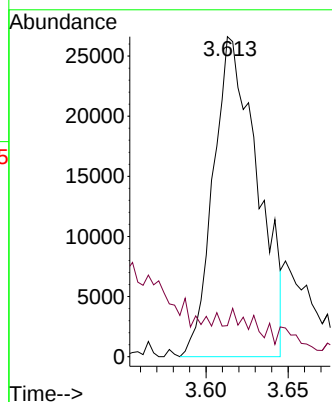
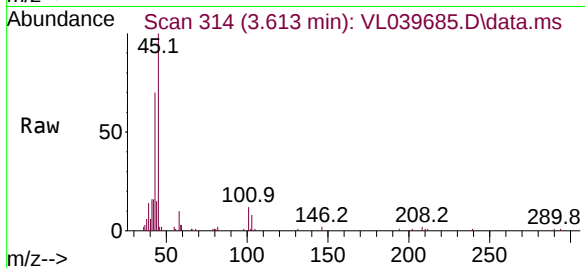
1DUP

Tgt Ion: 45 Resp: 49943

Ion Ratio Lower Upper

45 100

58 0.0 3.2 4.8#



#20

Methylene Chloride

Concen: 5.198 ppbv

RT: 3.957 min Scan# 421

Delta R.T. 0.010 min

Lab File: VL039685.D

Acq: 4 Oct 2022 17:50

Tgt Ion: 84 Resp: 252179

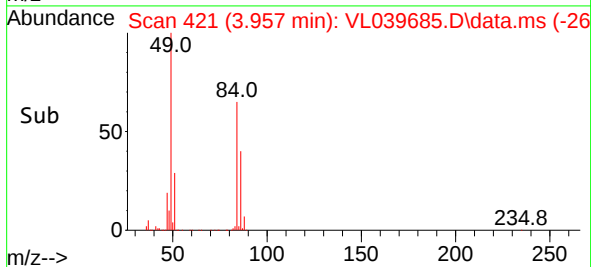
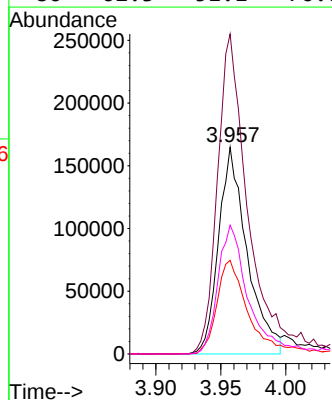
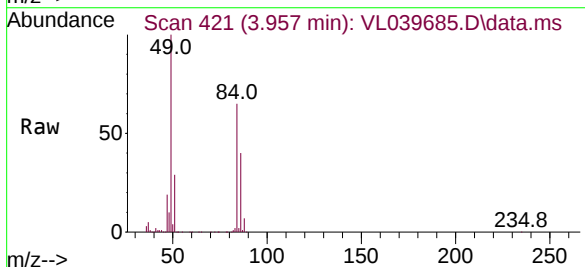
Ion Ratio Lower Upper

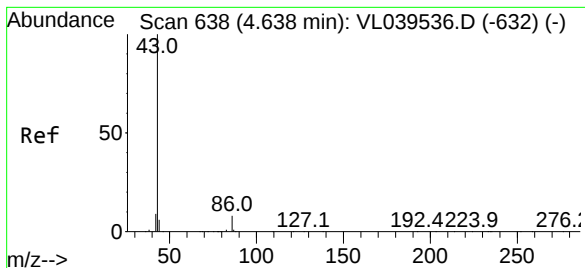
84 100

49 154.8 123.1 184.7

51 45.1 34.4 51.6

86 62.3 51.1 76.7





#23

Vinyl Acetate

Concen: 0.818 ppbv

RT: 4.639 min Scan# 61

Delta R.T. 0.001 min

Lab File: VL039685.D

Acq: 4 Oct 2022 17:50

Instrument :

MSVOA_L

ClientSampleId :

1DUP

Tgt Ion: 43 Resp: 38781

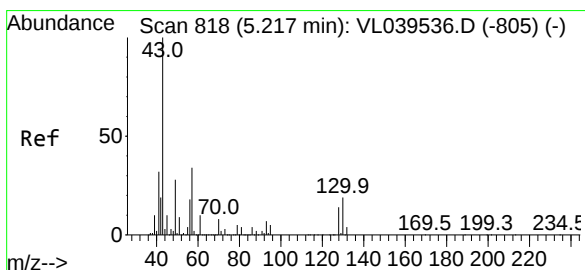
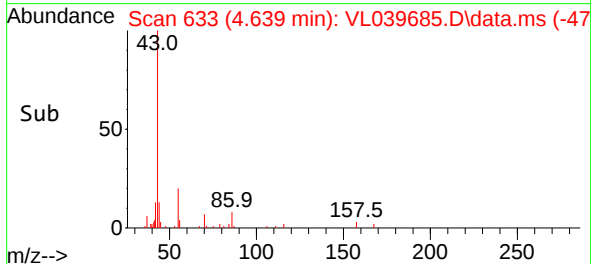
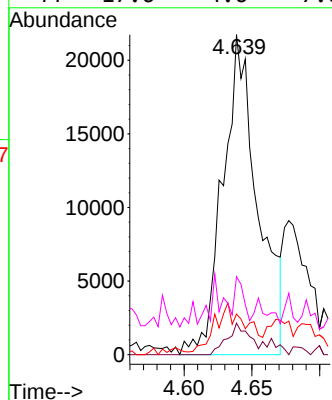
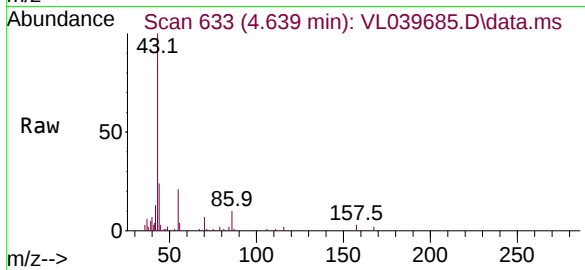
Ion Ratio Lower Upper

43 100

86 9.9 5.0 7.6#

42 11.2 7.7 11.5

44 17.6 4.6 7.0#



#25

Ethyl Acetate

Concen: 1.422 ppbv

RT: 5.234 min Scan# 818

Delta R.T. 0.017 min

Lab File: VL039685.D

Acq: 4 Oct 2022 17:50

Tgt Ion: 43 Resp: 325403

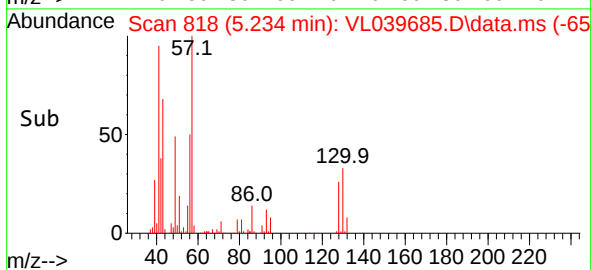
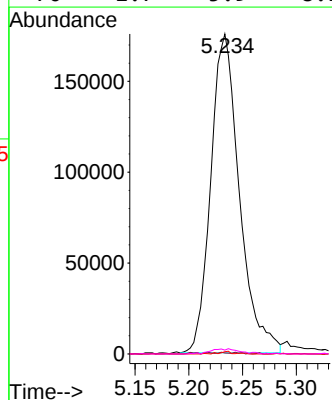
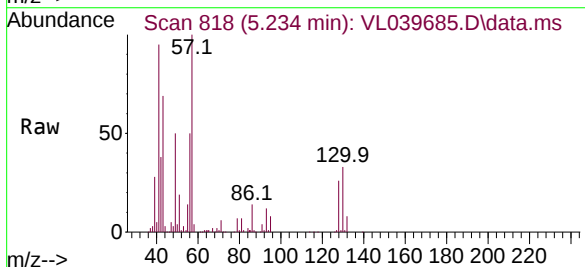
Ion Ratio Lower Upper

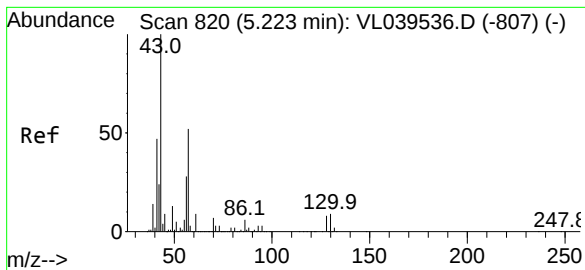
43 100

45 0.5 8.2 12.4#

61 0.4 8.3 12.5#

70 1.7 5.9 8.9#

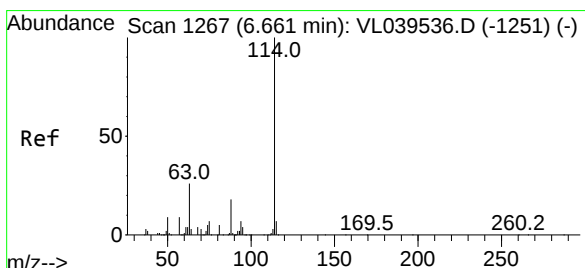
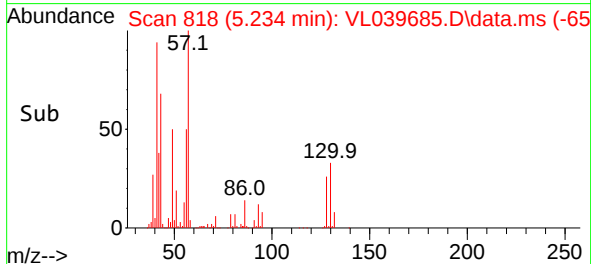
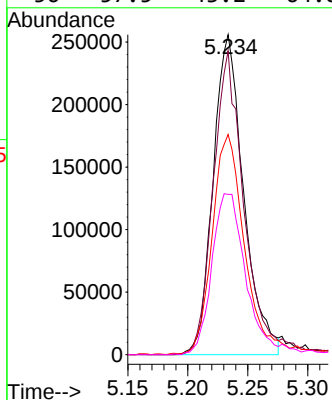
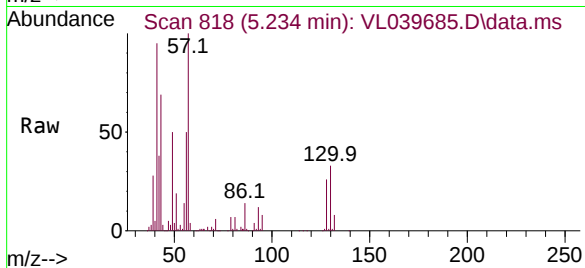




#26
Hexane
Concen: 4.661 ppbv
RT: 5.234 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL039685.D
Acq: 4 Oct 2022 17:50

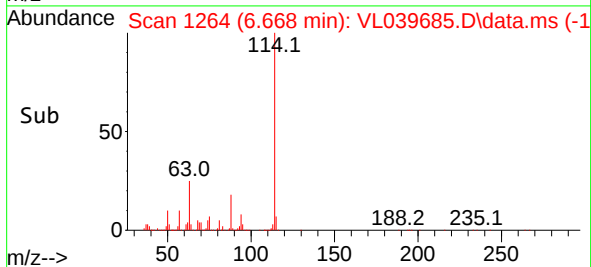
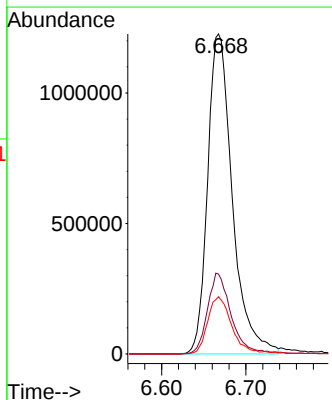
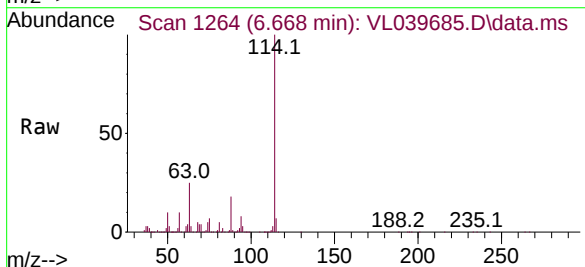
Instrument :
MSVOA_L
ClientSampleId :
1DUP

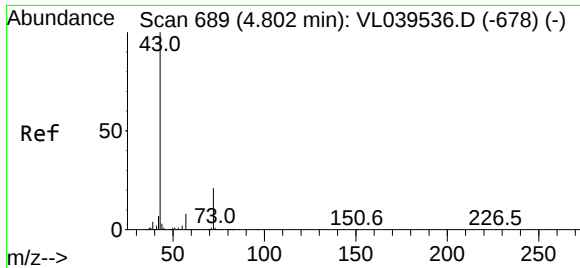
Tgt Ion:	57	Resp:	452640
Ion	Ratio	Lower	Upper
57	100		
41	98.5	76.9	115.3
43	75.3	191.0	286.6#
56	57.5	43.2	64.8



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.668 min Scan# 1264
Delta R.T. 0.007 min
Lab File: VL039685.D
Acq: 4 Oct 2022 17:50

Tgt Ion:	114	Resp:	2497969
Ion	Ratio	Lower	Upper
114	100		
63	24.6	20.2	30.4
88	17.9	14.5	21.7

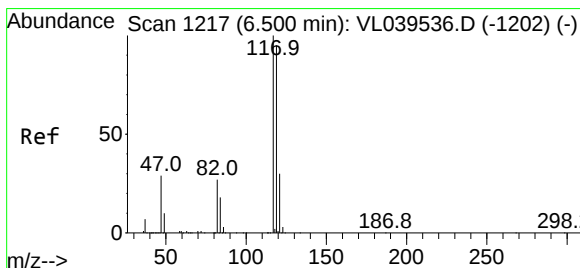
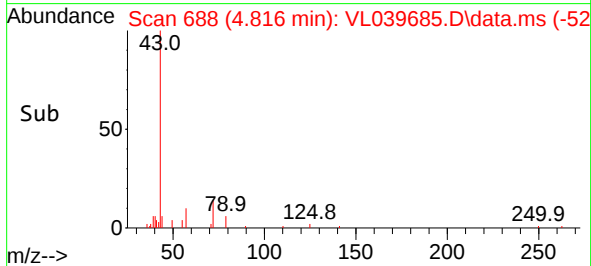
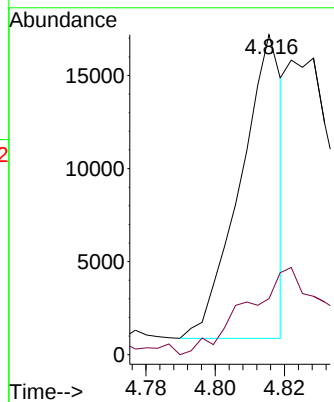
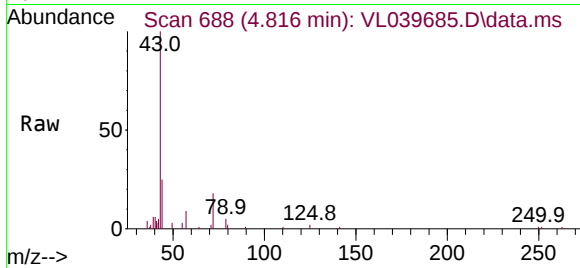




#34
2-Butanone
Concen: 0.111 ppbv
RT: 4.816 min Scan# 688
Delta R.T. 0.013 min
Lab File: VL039685.D
Acq: 4 Oct 2022 17:50

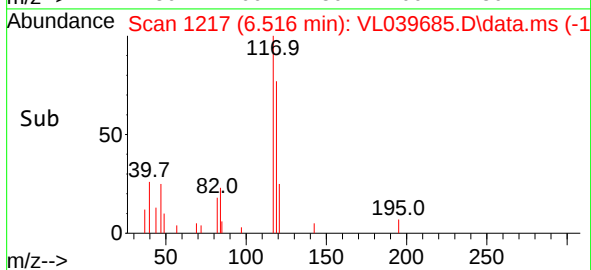
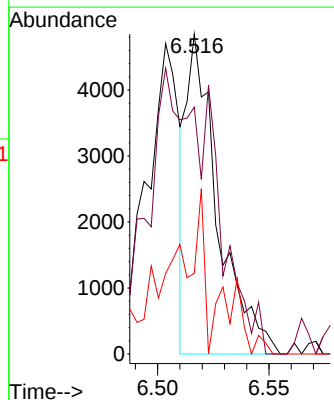
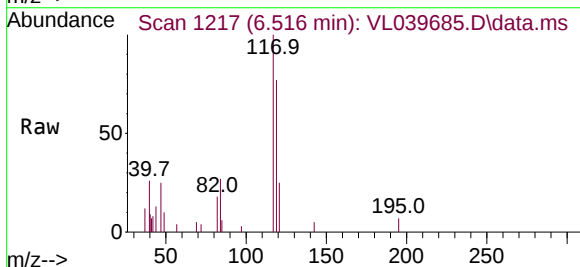
Instrument :
MSVOA_L
ClientSampleId :
1DUP

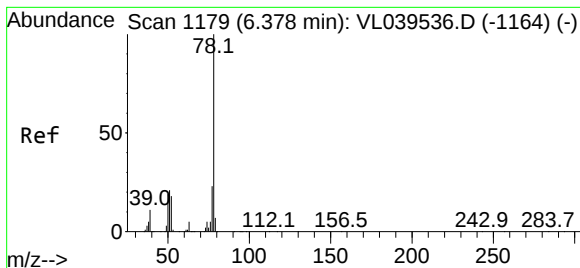
Tgt Ion: 43 Resp: 13579
Ion Ratio Lower Upper
43 100
72 0.0 17.9 26.9#



#35
Carbon Tetrachloride
Concen: 0.036 ppbv
RT: 6.516 min Scan# 1217
Delta R.T. 0.017 min
Lab File: VL039685.D
Acq: 4 Oct 2022 17:50

Tgt Ion: 117 Resp: 4758
Ion Ratio Lower Upper
117 100
119 77.2 75.4 113.2
121 25.2 24.2 36.2





#36

Benzene

Concen: 0.052 ppbv

RT: 6.391 min Scan# 1178

Delta R.T. 0.013 min

Lab File: VL039685.D

Acq: 4 Oct 2022 17:50

Instrument :

MSVOA_L

ClientSampleId :

1DUP

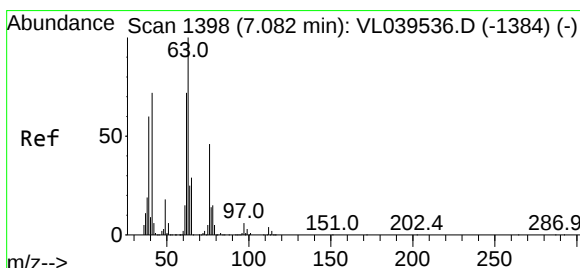
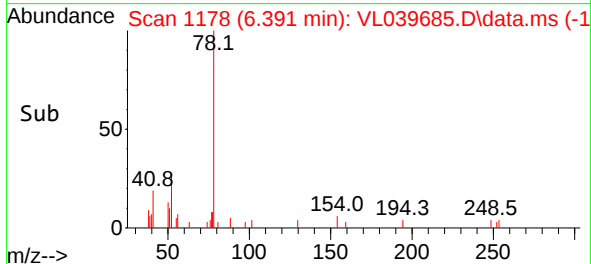
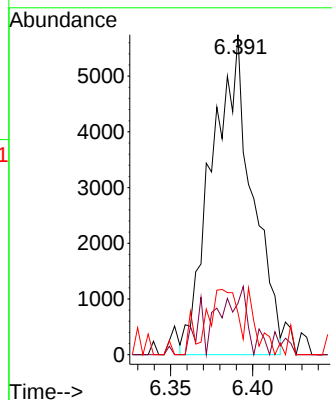
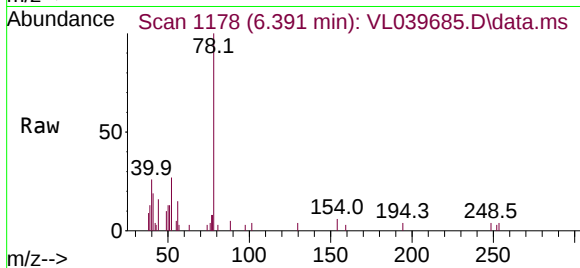
Tgt Ion: 78 Resp: 9836

Ion Ratio Lower Upper

78 100

77 16.5 20.3 30.5#

50 13.5 15.5 23.3#



#39

1,2-Dichloropropane

Concen: 8.013 ppbv

RT: 6.664 min Scan# 1263

Delta R.T. -0.417 min

Lab File: VL039685.D

Acq: 4 Oct 2022 17:50

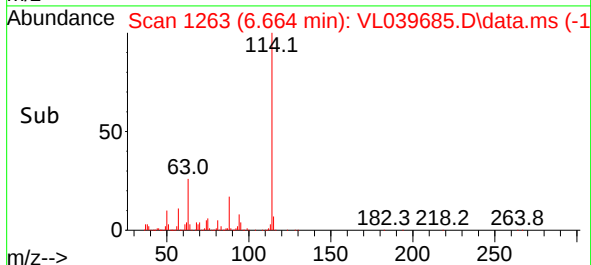
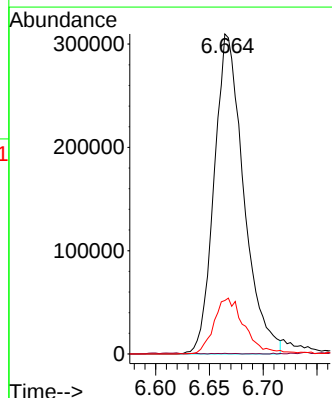
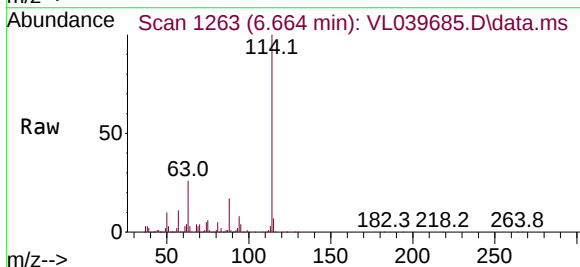
Tgt Ion: 63 Resp: 590943

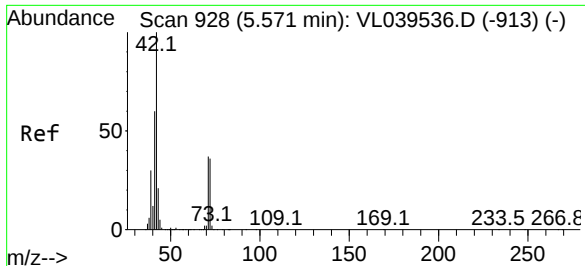
Ion Ratio Lower Upper

63 100

41 0.1 59.6 89.4#

62 16.6 51.4 77.0#

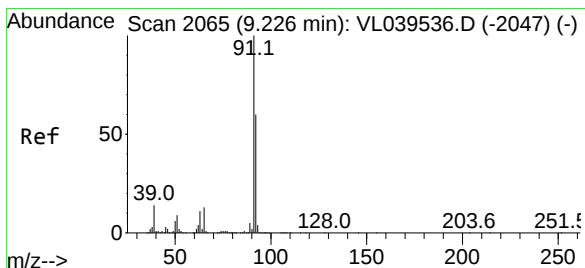
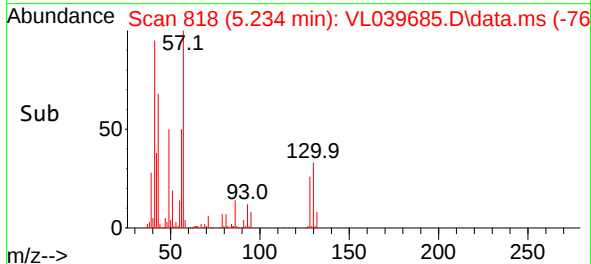
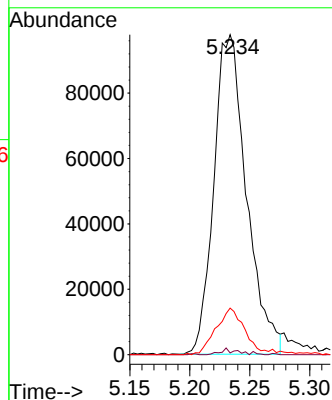
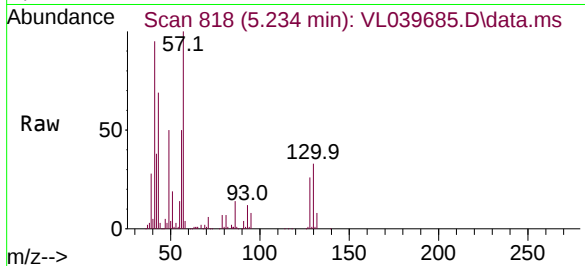




#41
Tetrahydrofuran
Concen: 2.455 ppbv
RT: 5.234 min Scan# 81
Delta R.T. -0.337 min
Lab File: VL039685.D
Acq: 4 Oct 2022 17:50

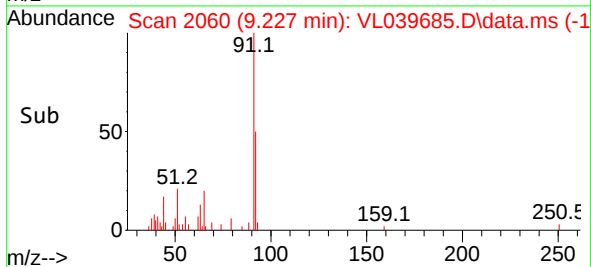
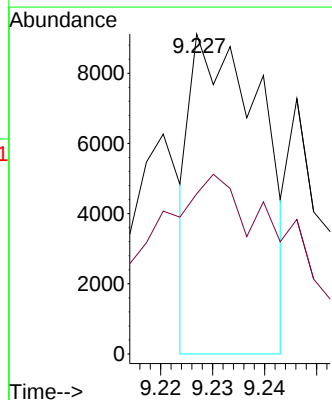
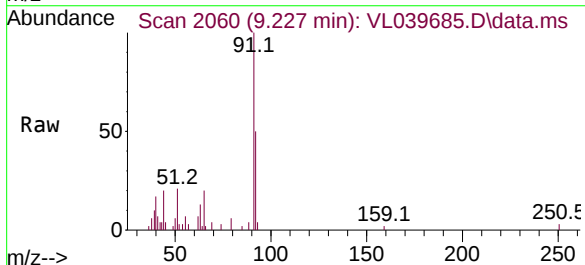
Instrument :
MSVOA_L
ClientSampleId :
1DUP

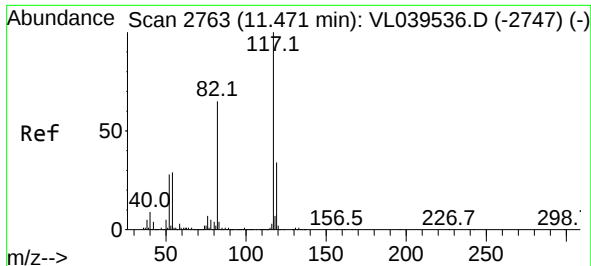
Tgt Ion: 42 Resp: 184767
Ion Ratio Lower Upper
42 100
72 1.1 31.8 47.8#
71 13.7 31.8 47.8#



#53
Toluene
Concen: 0.041 ppbv
RT: 9.227 min Scan# 2060
Delta R.T. 0.001 min
Lab File: VL039685.D
Acq: 4 Oct 2022 17:50

Tgt Ion: 91 Resp: 8605
Ion Ratio Lower Upper
91 100
92 132.4 48.2 72.2#

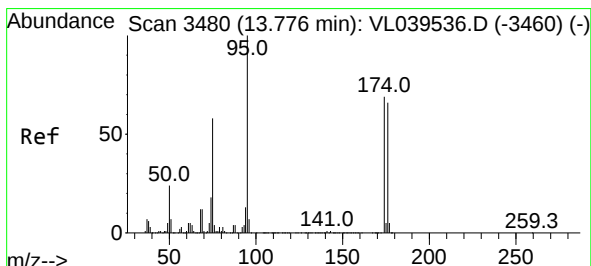
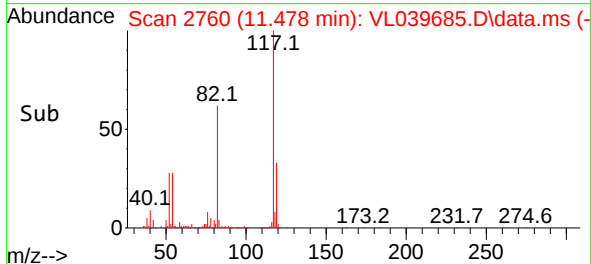
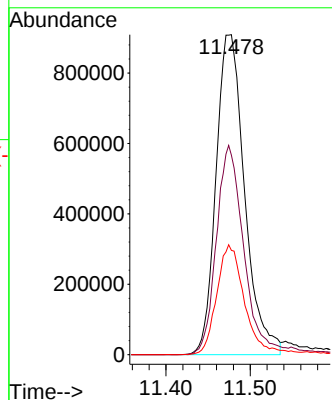
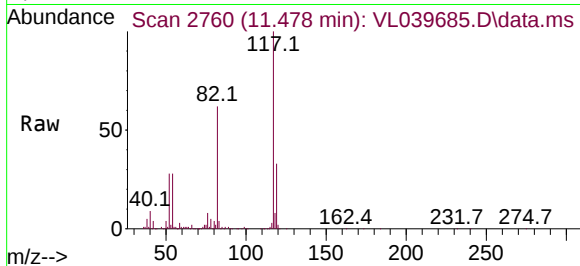




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.478 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL039685.D
Acq: 4 Oct 2022 17:50

Instrument :
MSVOA_L
ClientSampleId :
1DUP

Tgt Ion:117 Resp: 2144734
Ion Ratio Lower Upper
117 100
82 65.2 50.8 76.2
119 34.3 24.1 36.1



#68
1-Bromo-4-Fluorobenzene
Concen: 9.675 ppbv
RT: 13.780 min Scan# 3476
Delta R.T. 0.004 min
Lab File: VL039685.D
Acq: 4 Oct 2022 17:50

Tgt Ion: 95 Resp: 1548938
Ion Ratio Lower Upper
95 100
174 77.2 55.9 83.9
175 5.3 4.2 6.4

