

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042059.D
 Acq On : 26 Feb 2025 13:52
 Operator : SY/MD
 Sample : Q1430-06DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DL

Quant Time: Feb 27 00:29:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	154763	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	360278	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	302318	10.000	ppbv	0.00

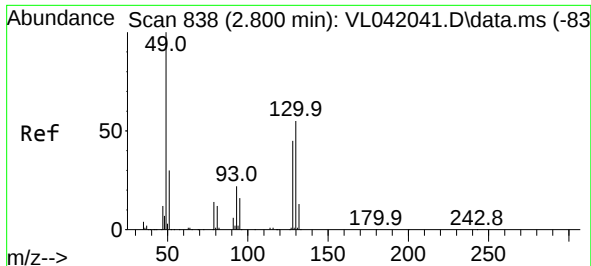
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	236630	10.174	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.700%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	1994	0.124	ppbv #	84
3) Chlorodifluoromethane	1.479	51	7136	0.317	ppbv #	86
4) Chloromethane	1.538	50	2383	0.400	ppbv	92
6) Bromomethane	1.670	94	81	0.030	ppbv #	2
8) Dichlorotetrafluoroethane	1.502	85	1994	0.151	ppbv #	16
9) Propene	1.683	41	765	0.083	ppbv	86
13) Ethanol	1.729	45	8930	15.352	ppbv	99
15) Acetone	1.842	43	35219	2.577	ppbv	98
16) 1,3-Butadiene	1.606	39	542	0.085	ppbv #	48
17) tert-Butyl alcohol	2.052	59	1170	0.068	ppbv #	53
19) Isopropyl Alcohol	1.894	45	10182	1.297	ppbv #	26
20) Methylene Chloride	2.072	84	3176	0.614	ppbv #	81
23) Vinyl Acetate	2.467	43	3688	0.384	ppbv #	80
26) Hexane	2.839	57	3474	0.157	ppbv #	56
29) Chloroform	2.861	83	1048	0.035	ppbv #	72
34) 2-Butanone	2.573	43	5418	0.193	ppbv	94
36) Benzene	3.667	78	1430	0.038	ppbv #	78
39) 1,2-Dichloropropane	3.978	63	98092	6.852	ppbv #	24
53) Toluene	6.956	91	4317	0.102	ppbv #	34

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

Quant Time: Feb 27 00:29:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

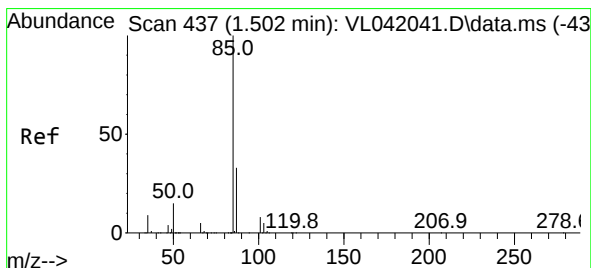
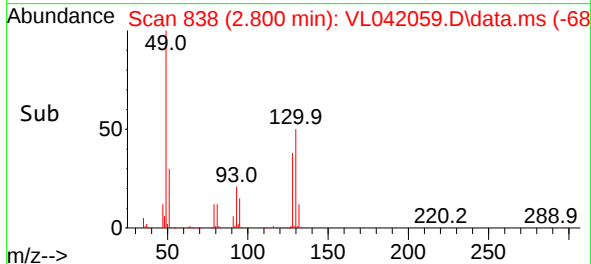
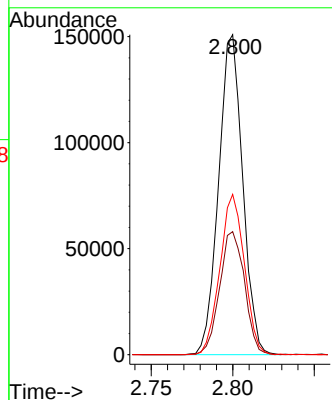
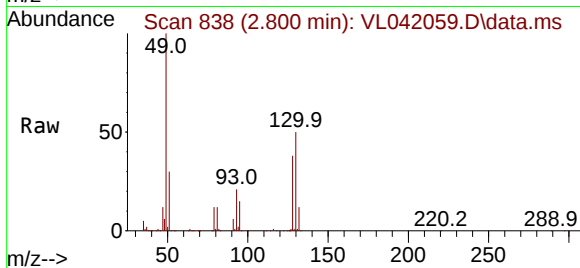




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.800 min Scan# 838
 Delta R.T. -0.000 min
 Lab File: VL042059.D
 Acq: 26 Feb 2025 13:52

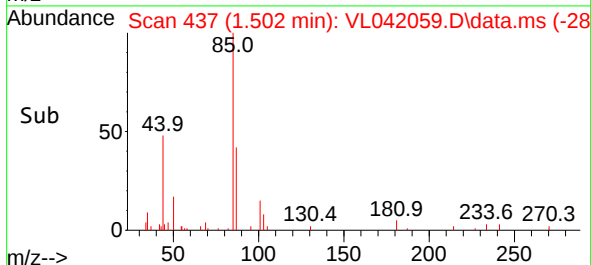
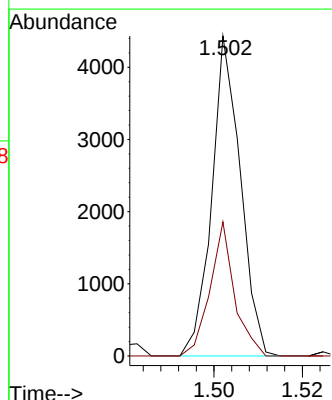
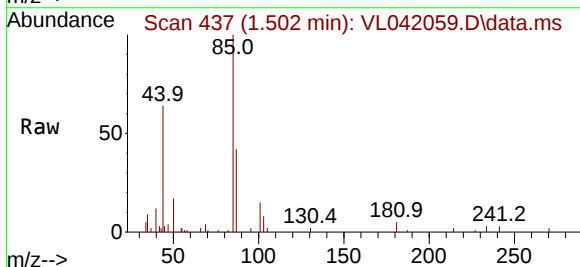
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DL

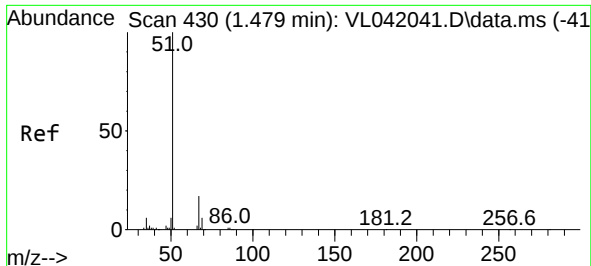
Tgt Ion: 49 Resp: 154763
 Ion Ratio Lower Upper
 49 100
 128 39.9 21.6 64.8
 130 51.0 27.8 83.4



#2
 Dichlorodifluoromethane
 Concen: 0.124 ppbv
 RT: 1.502 min Scan# 437
 Delta R.T. -0.000 min
 Lab File: VL042059.D
 Acq: 26 Feb 2025 13:52

Tgt Ion: 85 Resp: 1994
 Ion Ratio Lower Upper
 85 100
 87 41.9 26.4 39.6

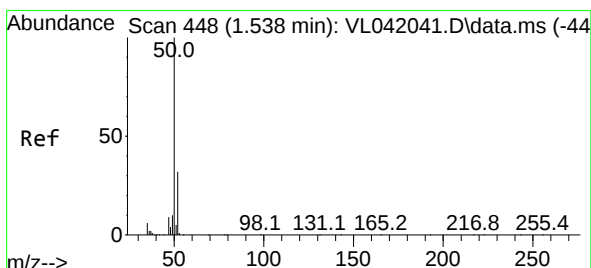
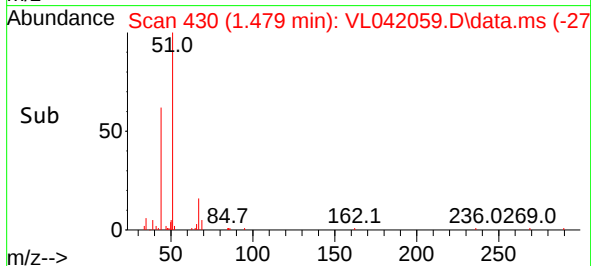
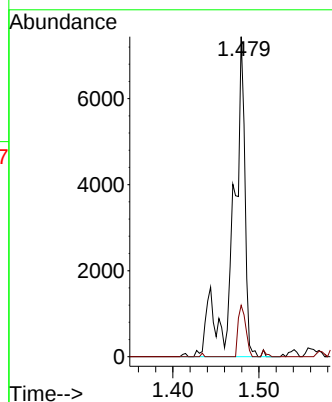
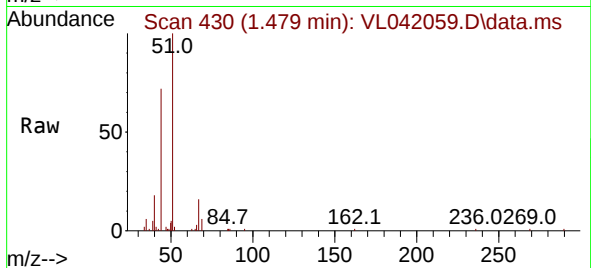




#3
Chlorodifluoromethane
Concen: 0.317 ppbv
RT: 1.479 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042059.D
Acq: 26 Feb 2025 13:52

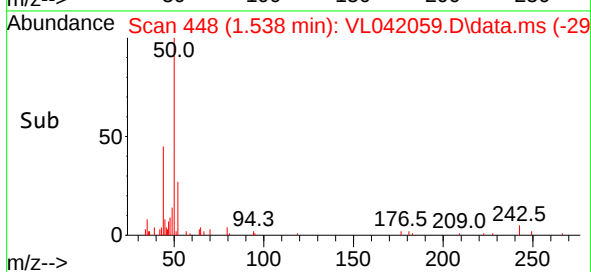
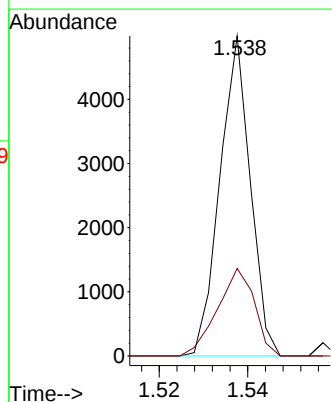
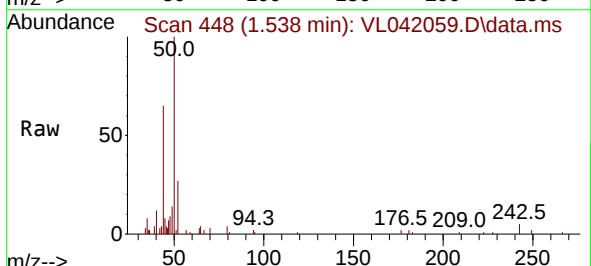
Instrument :
MSVOA_L
ClientSampleId :
OA1DL

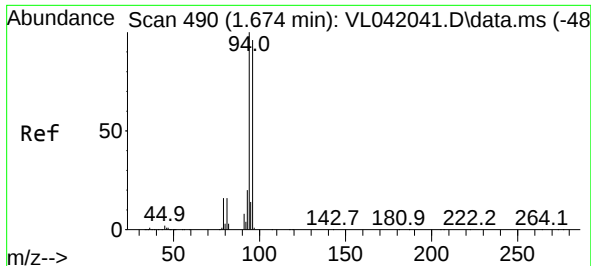
Tgt Ion: 51 Resp: 7136
Ion Ratio Lower Upper
51 100
67 10.9 13.7 20.5#



#4
Chloromethane
Concen: 0.400 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042059.D
Acq: 26 Feb 2025 13:52

Tgt Ion: 50 Resp: 2383
Ion Ratio Lower Upper
50 100
52 27.3 25.4 38.0

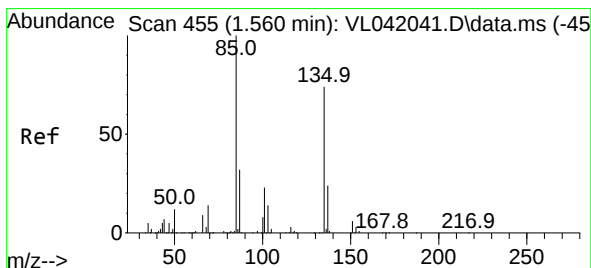
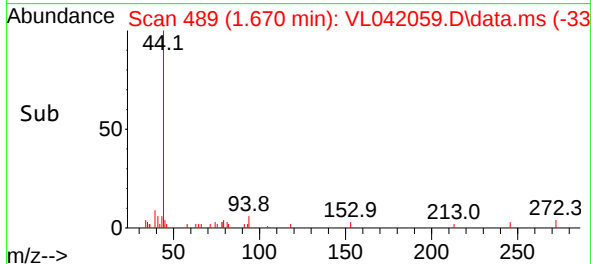
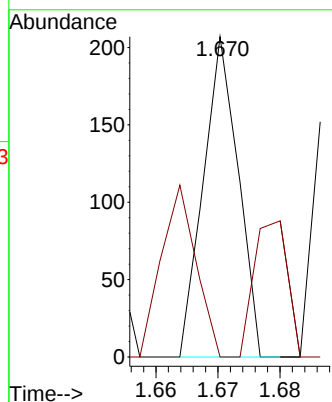
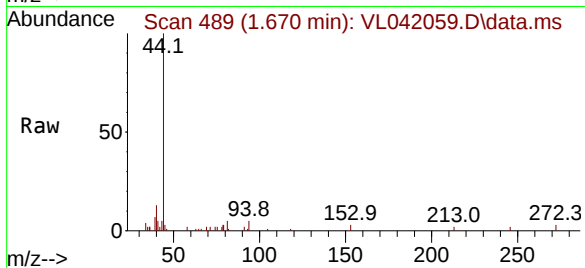




#6
Bromomethane
Concen: 0.030 ppbv
RT: 1.670 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042059.D
Acq: 26 Feb 2025 13:52

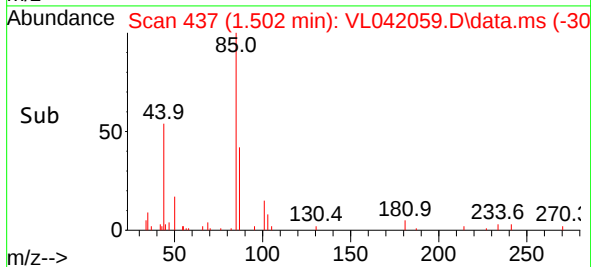
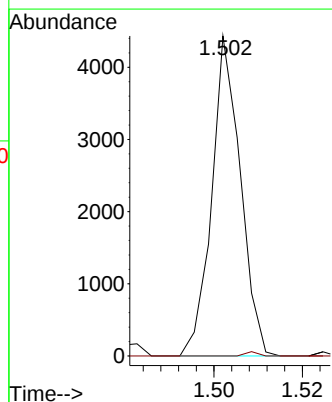
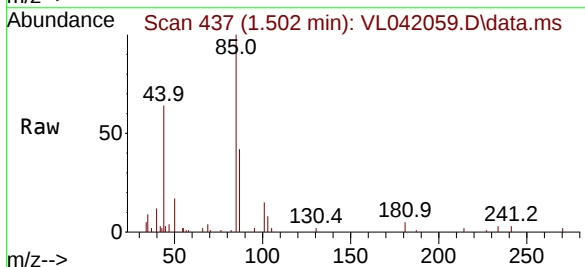
Instrument :
MSVOA_L
ClientSampleId :
OA1DL

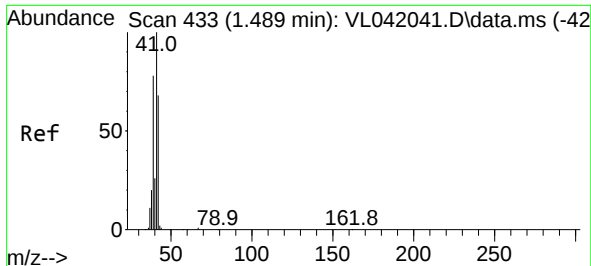
Tgt Ion: 94 Resp: 81
Ion Ratio Lower Upper
94 100
96 0.0 76.5 114.7#



#8
Dichlorotetrafluoroethane
Concen: 0.151 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.058 min
Lab File: VL042059.D
Acq: 26 Feb 2025 13:52

Tgt Ion: 85 Resp: 1994
Ion Ratio Lower Upper
85 100
135 0.6 54.6 81.8#





#9

Propene

Concen: 0.083 ppbv

RT: 1.683 min Scan# 493

Delta R.T. 0.194 min

Lab File: VL042059.D

Acq: 26 Feb 2025 13:52

Instrument :

MSVOA_L

ClientSampleId :

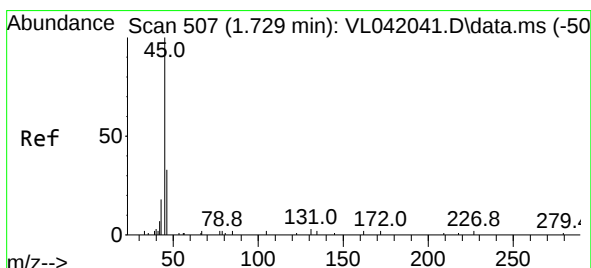
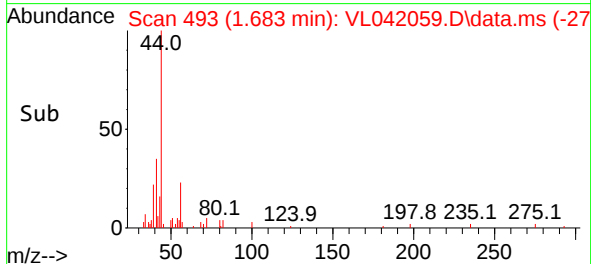
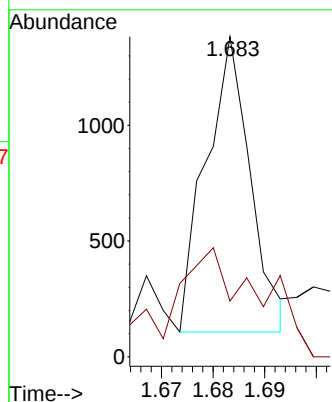
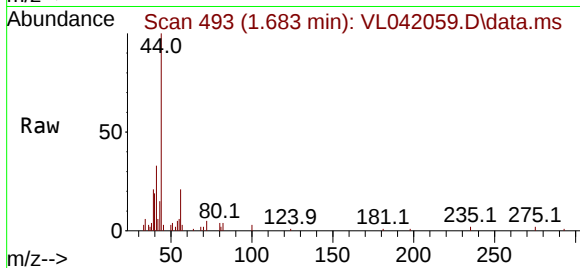
OA1DL

Tgt Ion: 41 Resp: 765

Ion Ratio Lower Upper

41 100

42 80.8 55.8 83.6



#13

Ethanol

Concen: 15.352 ppbv

RT: 1.729 min Scan# 507

Delta R.T. -0.000 min

Lab File: VL042059.D

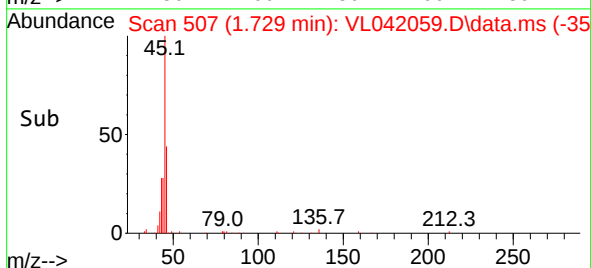
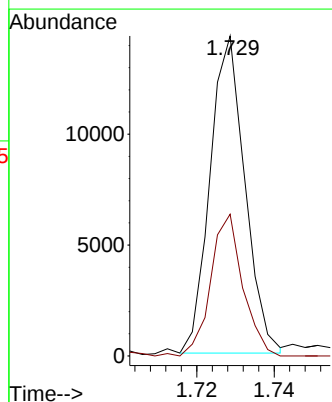
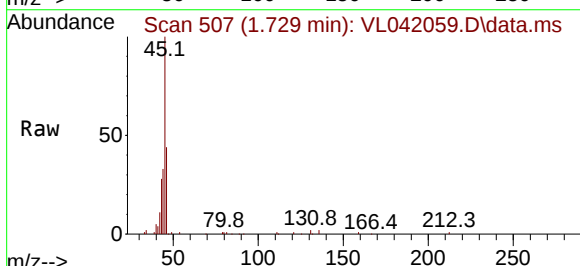
Acq: 26 Feb 2025 13:52

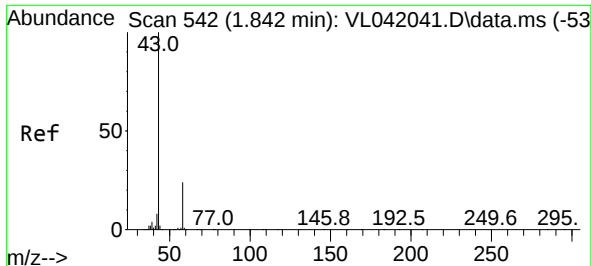
Tgt Ion: 45 Resp: 8930

Ion Ratio Lower Upper

45 100

46 41.8 17.1 68.3





#15

Acetone

Concen: 2.577 ppbv

RT: 1.842 min Scan# 542

Delta R.T. -0.000 min

Lab File: VL042059.D

Acq: 26 Feb 2025 13:52

Instrument :

MSVOA_L

ClientSampleId :

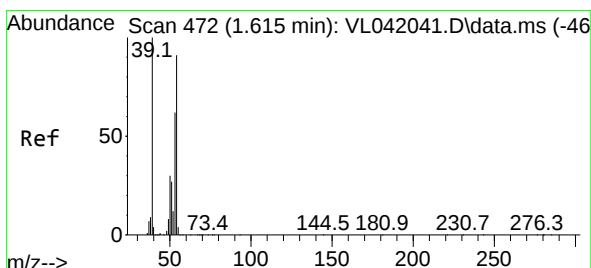
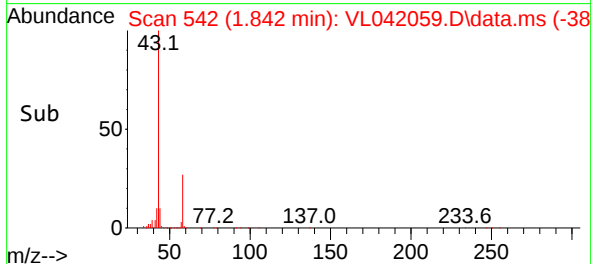
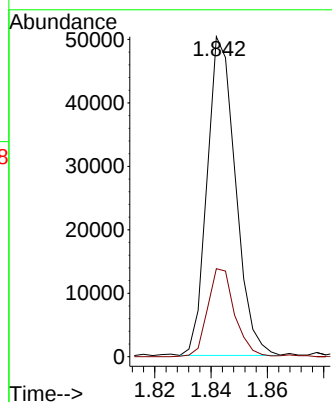
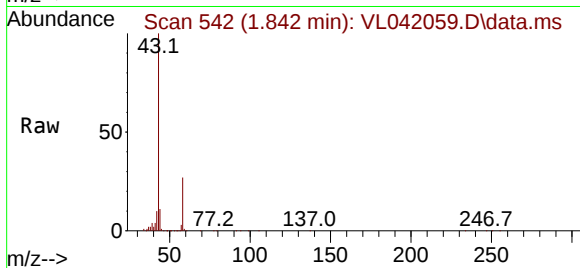
OA1DL

Tgt Ion: 43 Resp: 35219

Ion Ratio Lower Upper

43 100

58 26.9 20.7 31.1



#16

1,3-Butadiene

Concen: 0.085 ppbv

RT: 1.606 min Scan# 469

Delta R.T. -0.010 min

Lab File: VL042059.D

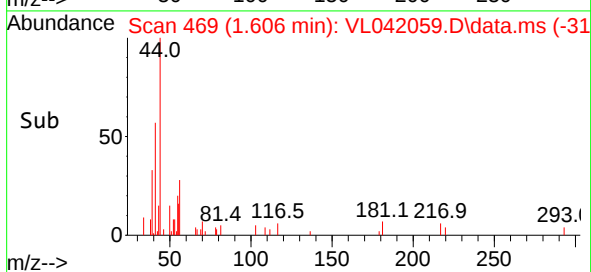
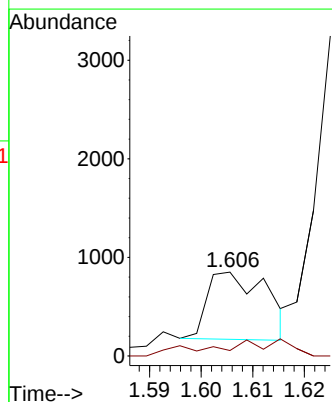
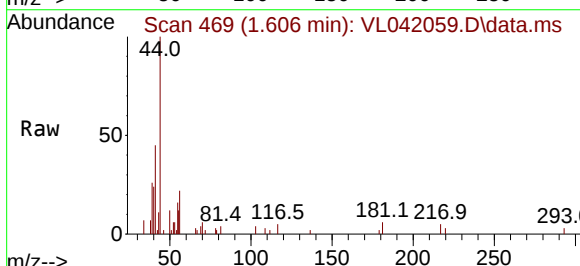
Acq: 26 Feb 2025 13:52

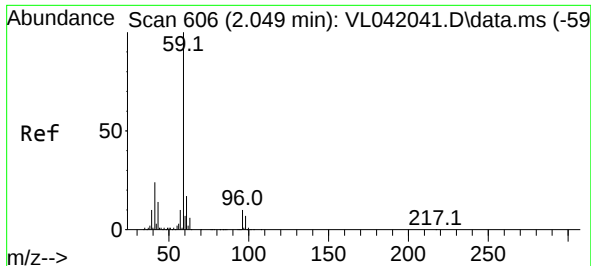
Tgt Ion: 39 Resp: 542

Ion Ratio Lower Upper

39 100

54 30.3 59.6 89.4#





#17

tert-Butyl alcohol

Concen: 0.068 ppbv

RT: 2.052 min Scan# 606

Delta R.T. 0.003 min

Lab File: VL042059.D

Acq: 26 Feb 2025 13:52

Instrument :

MSVOA_1

ClientSampleId :

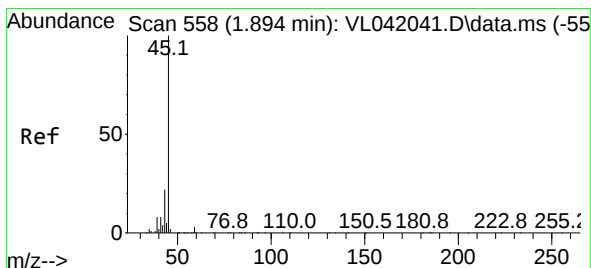
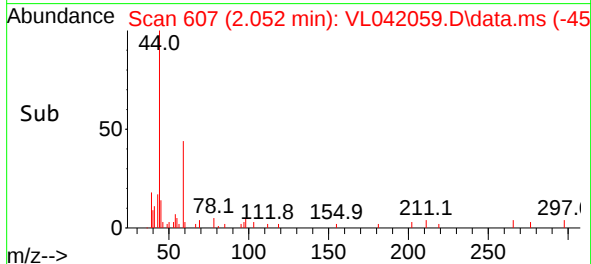
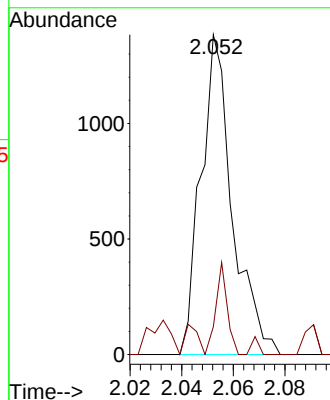
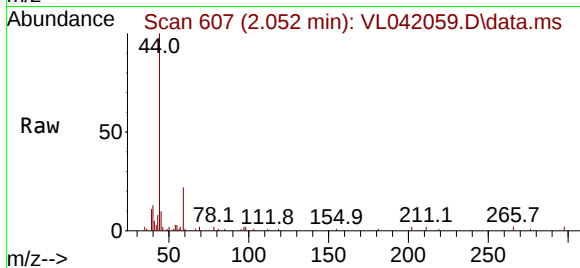
OA1DL

Tgt Ion: 59 Resp: 1170

Ion Ratio Lower Upper

59 100

57 29.8 9.3 13.9#



#19

Isopropyl Alcohol

Concen: 1.297 ppbv

RT: 1.894 min Scan# 558

Delta R.T. -0.000 min

Lab File: VL042059.D

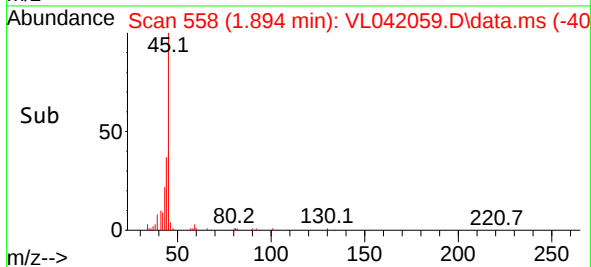
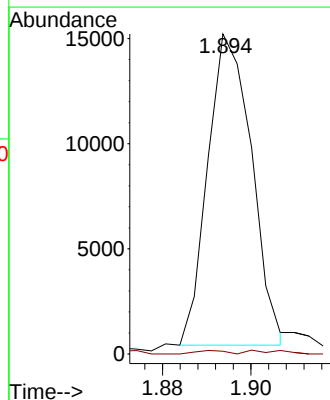
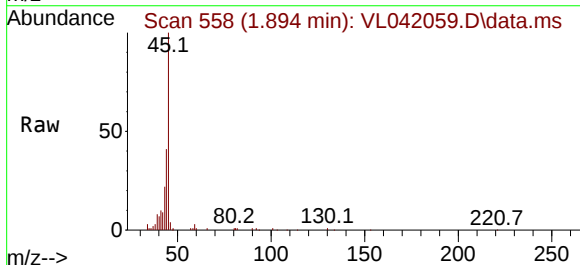
Acq: 26 Feb 2025 13:52

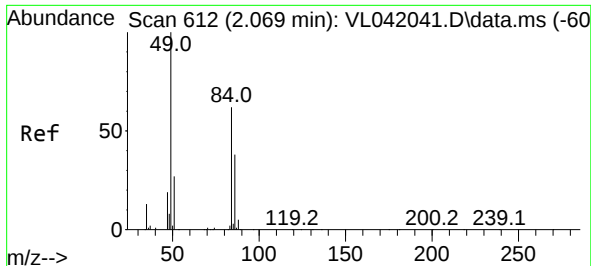
Tgt Ion: 45 Resp: 10182

Ion Ratio Lower Upper

45 100

58 92.3 35.3 52.9#

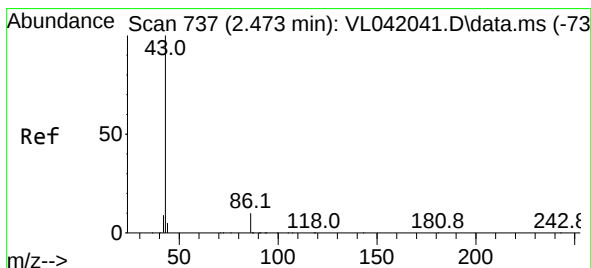
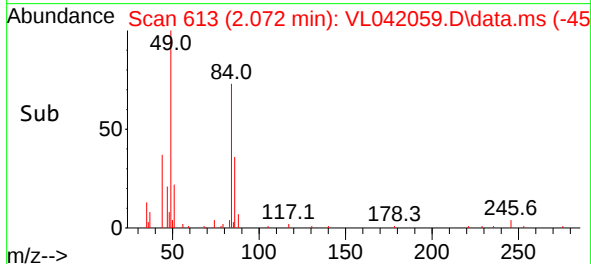
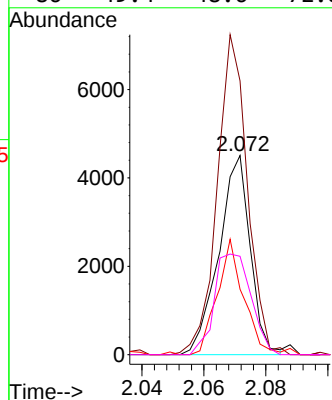
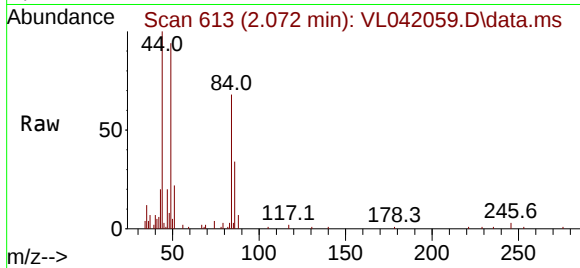




#20
Methylene Chloride
Concen: 0.614 ppbv
RT: 2.072 min Scan# 612
Delta R.T. 0.003 min
Lab File: VL042059.D
Acq: 26 Feb 2025 13:52

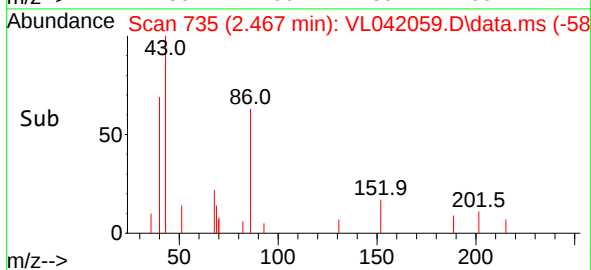
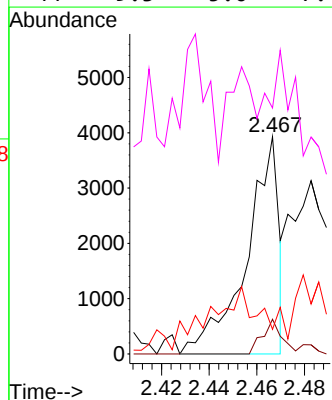
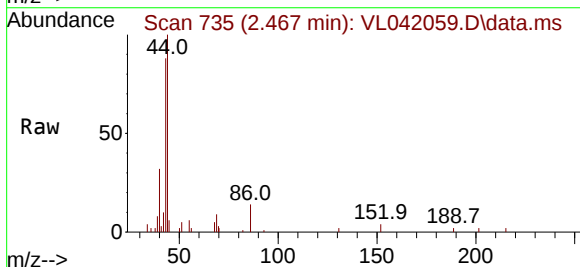
Instrument :
MSVOA_L
ClientSampleId :
OA1DL

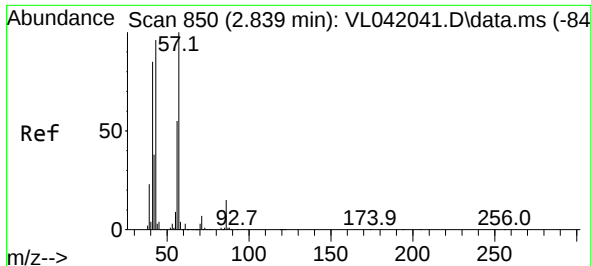
Tgt Ion:	84	Resp:	3176
Ion	Ratio	Lower	Upper
84	100		
49	136.3	130.0	195.0
51	32.9	37.4	56.0#
86	49.4	48.6	72.8



#23
Vinyl Acetate
Concen: 0.384 ppbv
RT: 2.467 min Scan# 735
Delta R.T. -0.007 min
Lab File: VL042059.D
Acq: 26 Feb 2025 13:52

Tgt Ion:	43	Resp:	3688
Ion	Ratio	Lower	Upper
43	100		
86	16.0	7.0	10.4#
42	0.0	7.6	11.4#
44	9.3	5.0	7.4#

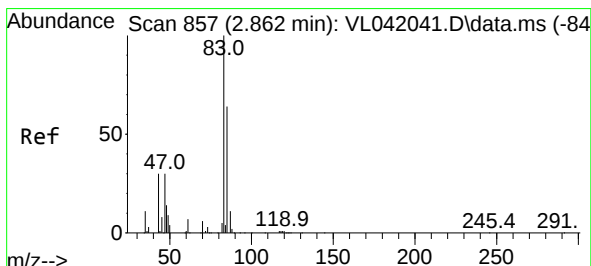
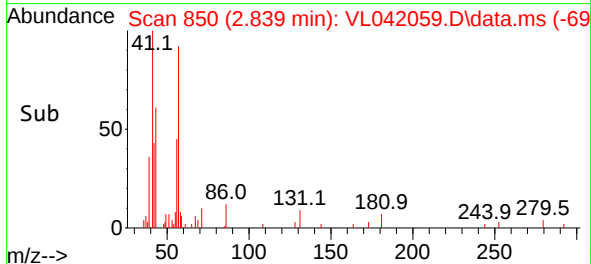
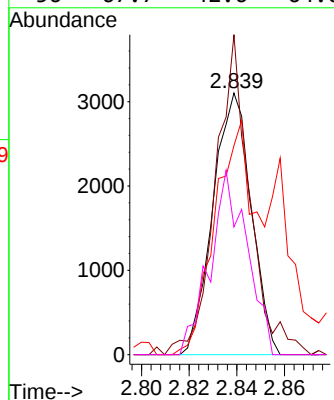
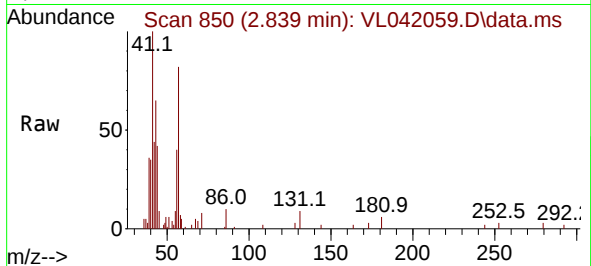




#26
Hexane
Concen: 0.157 ppbv
RT: 2.839 min Scan# 850
Delta R.T. -0.000 min
Lab File: VL042059.D
Acq: 26 Feb 2025 13:52

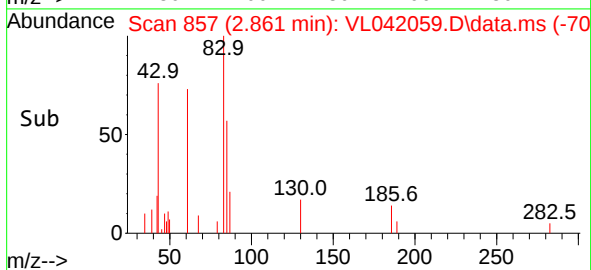
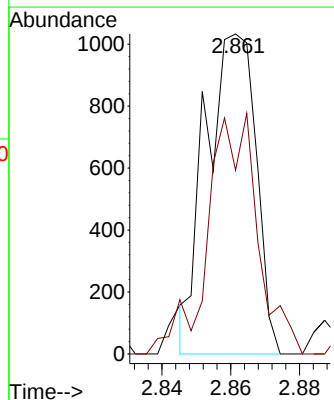
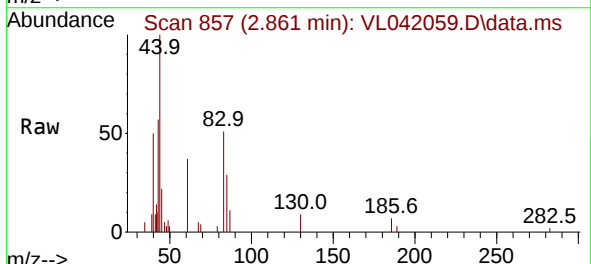
Instrument :
MSVOA_L
ClientSampleId :
OA1DL

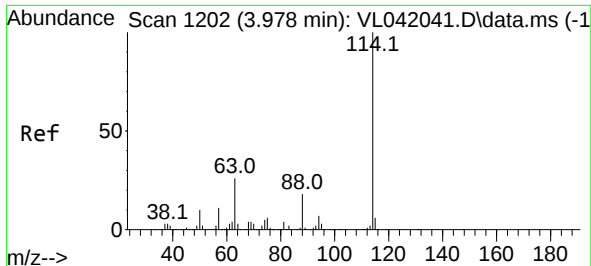
Tgt Ion: 57 Resp: 3474
Ion Ratio Lower Upper
57 100
41 110.2 70.6 106.0#
43 151.2 199.4 299.0#
56 67.7 42.6 64.0#



#29
Chloroform
Concen: 0.035 ppbv
RT: 2.861 min Scan# 857
Delta R.T. -0.000 min
Lab File: VL042059.D
Acq: 26 Feb 2025 13:52

Tgt Ion: 83 Resp: 1048
Ion Ratio Lower Upper
83 100
85 42.3 51.2 76.8#

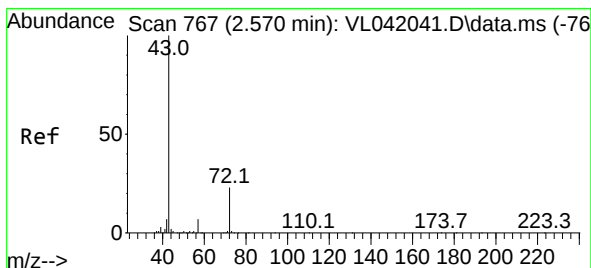
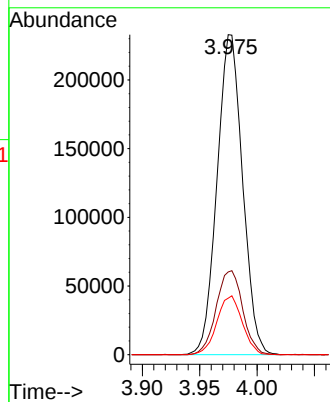
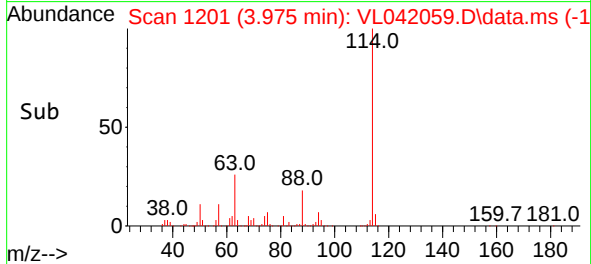
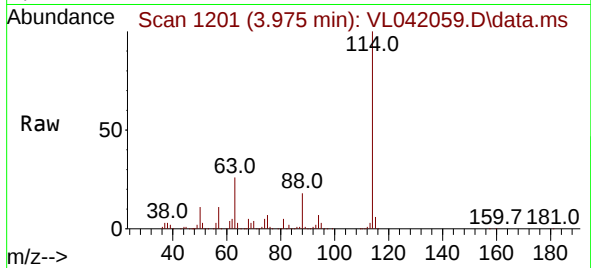




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.975 min Scan# 11
 Delta R.T. -0.003 min
 Lab File: VL042059.D
 Acq: 26 Feb 2025 13:52

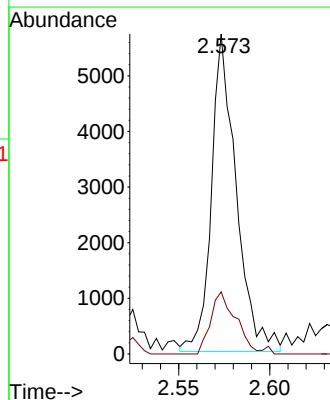
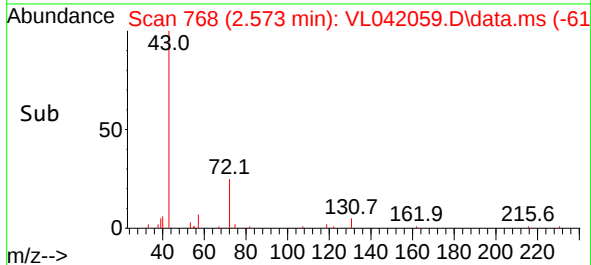
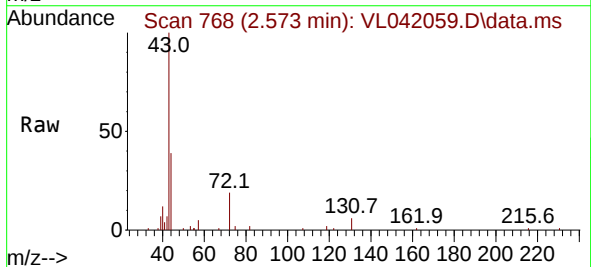
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DL

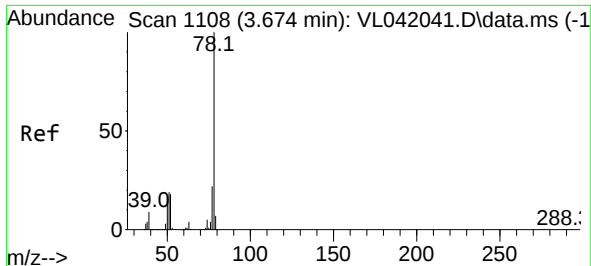
Tgt Ion:114 Resp: 360278
 Ion Ratio Lower Upper
 114 100
 63 27.3 20.1 30.1
 88 18.3 14.3 21.5



#34
 2-Butanone
 Concen: 0.193 ppbv
 RT: 2.573 min Scan# 768
 Delta R.T. 0.003 min
 Lab File: VL042059.D
 Acq: 26 Feb 2025 13:52

Tgt Ion: 43 Resp: 5418
 Ion Ratio Lower Upper
 43 100
 72 20.4 18.5 27.7

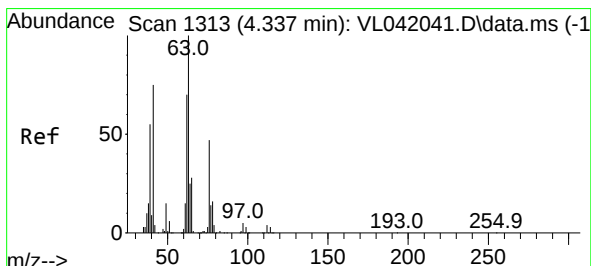
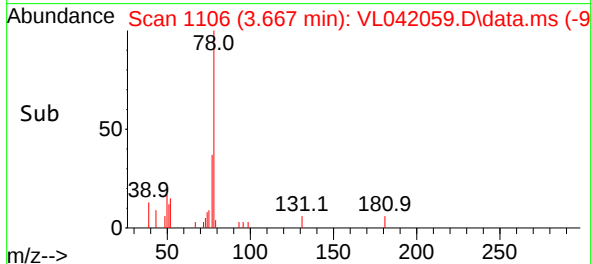
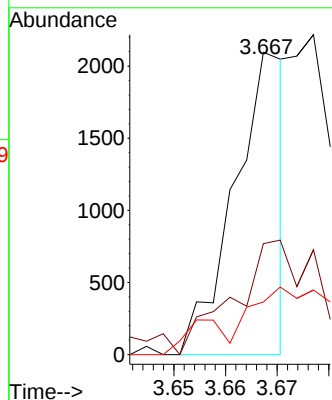
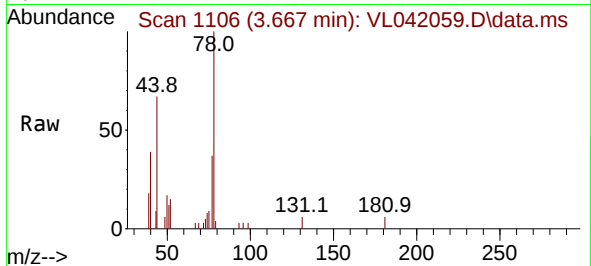




#36
Benzene
Concen: 0.038 ppbv
RT: 3.667 min Scan# 1106
Delta R.T. -0.007 min
Lab File: VL042059.D
Acq: 26 Feb 2025 13:52

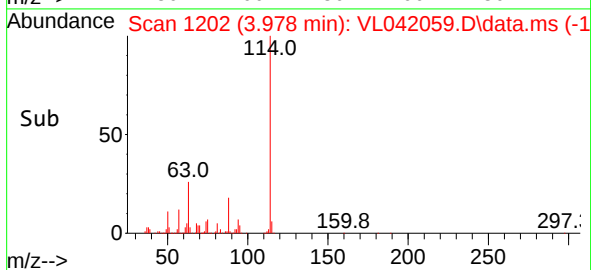
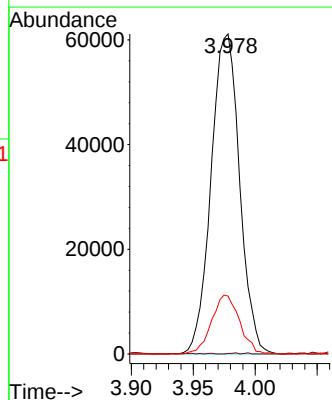
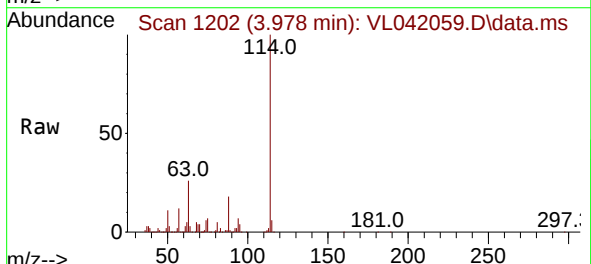
Instrument :
MSVOA_L
ClientSampleId :
OA1DL

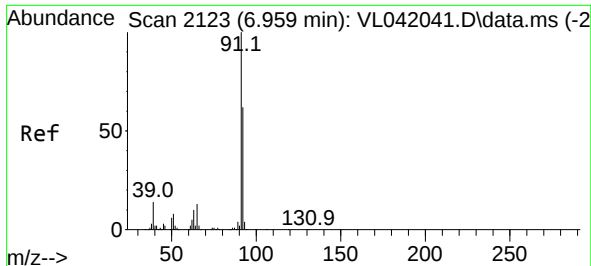
Tgt Ion: 78 Resp: 1430
Ion Ratio Lower Upper
78 100
77 36.7 17.7 26.5#
50 12.9 13.9 20.9#



#39
1,2-Dichloropropane
Concen: 6.852 ppbv
RT: 3.978 min Scan# 1202
Delta R.T. -0.359 min
Lab File: VL042059.D
Acq: 26 Feb 2025 13:52

Tgt Ion: 63 Resp: 98092
Ion Ratio Lower Upper
63 100
41 0.1 60.1 90.1#
62 18.1 55.8 83.8#

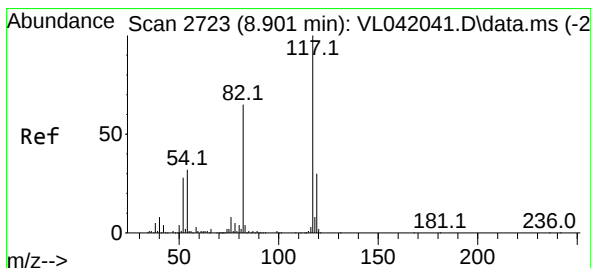
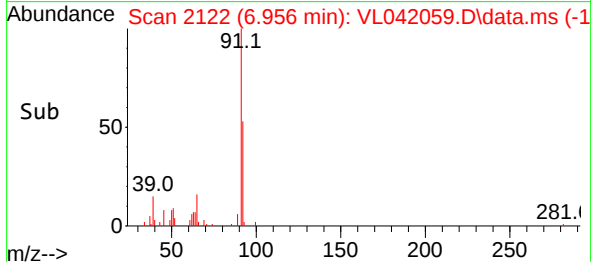
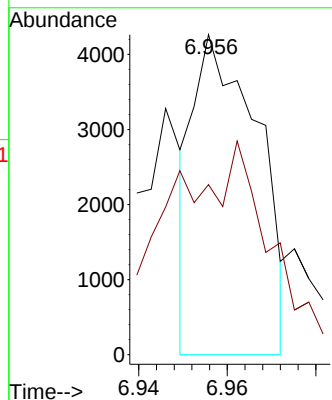
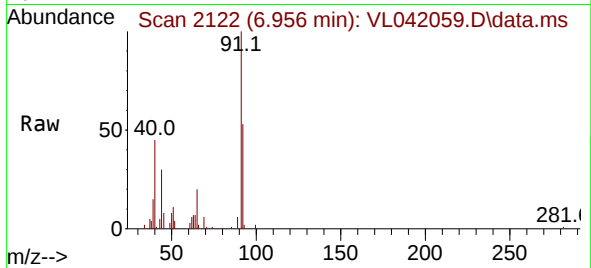




#53
Toluene
Concen: 0.102 ppbv
RT: 6.956 min Scan# 2122
Delta R.T. -0.003 min
Lab File: VL042059.D
Acq: 26 Feb 2025 13:52

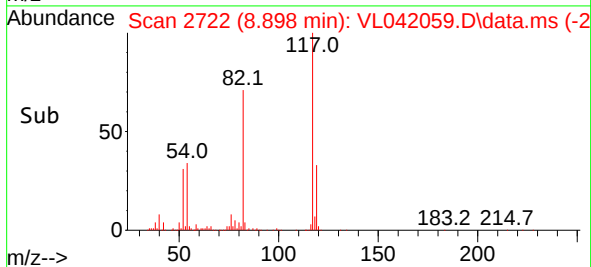
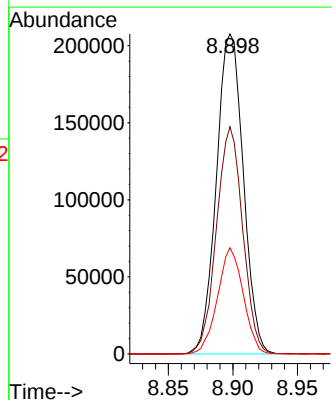
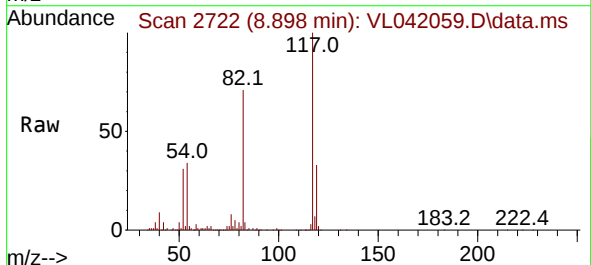
Instrument :
MSVOA_L
ClientSampleId :
OA1DL

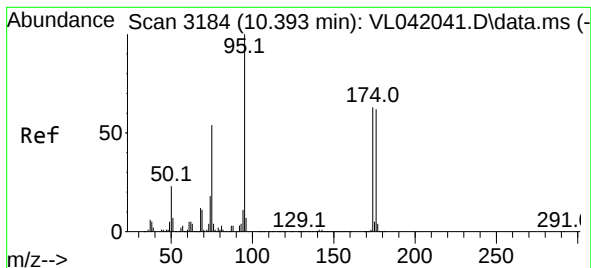
Tgt Ion: 91 Resp: 4317
Ion Ratio Lower Upper
91 100
92 111.7 49.0 73.6#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2722
Delta R.T. -0.003 min
Lab File: VL042059.D
Acq: 26 Feb 2025 13:52

Tgt Ion: 117 Resp: 302318
Ion Ratio Lower Upper
117 100
82 68.9 55.0 82.6
119 31.7 25.9 38.9





#68

1-Bromo-4-Fluorobenzene

Concen: 10.174 ppbv

RT: 10.390 min Scan# 31

Delta R.T. -0.003 min

Lab File: VL042059.D

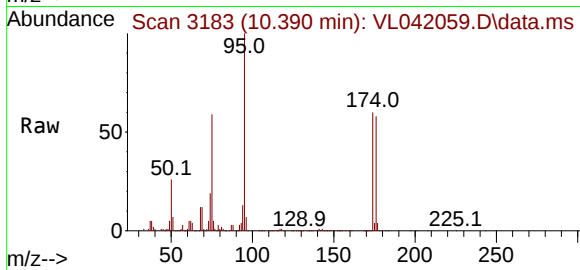
Acq: 26 Feb 2025 13:52

Instrument :

MSVOA_L

ClientSampleId :

OA1DL



Tgt Ion: 95 Resp: 236630

Ion Ratio Lower Upper

95 100

174 60.7 51.8 77.6

175 4.3 3.9 5.9

