

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031224\
 Data File : VL041099.D
 Acq On : 12 Mar 2024 15:08
 Operator : SY/MD
 Sample : P1718-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: Mar 13 01:29:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031124AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Mar 13 01:22:02 2024
 Response via : Initial Calibration

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

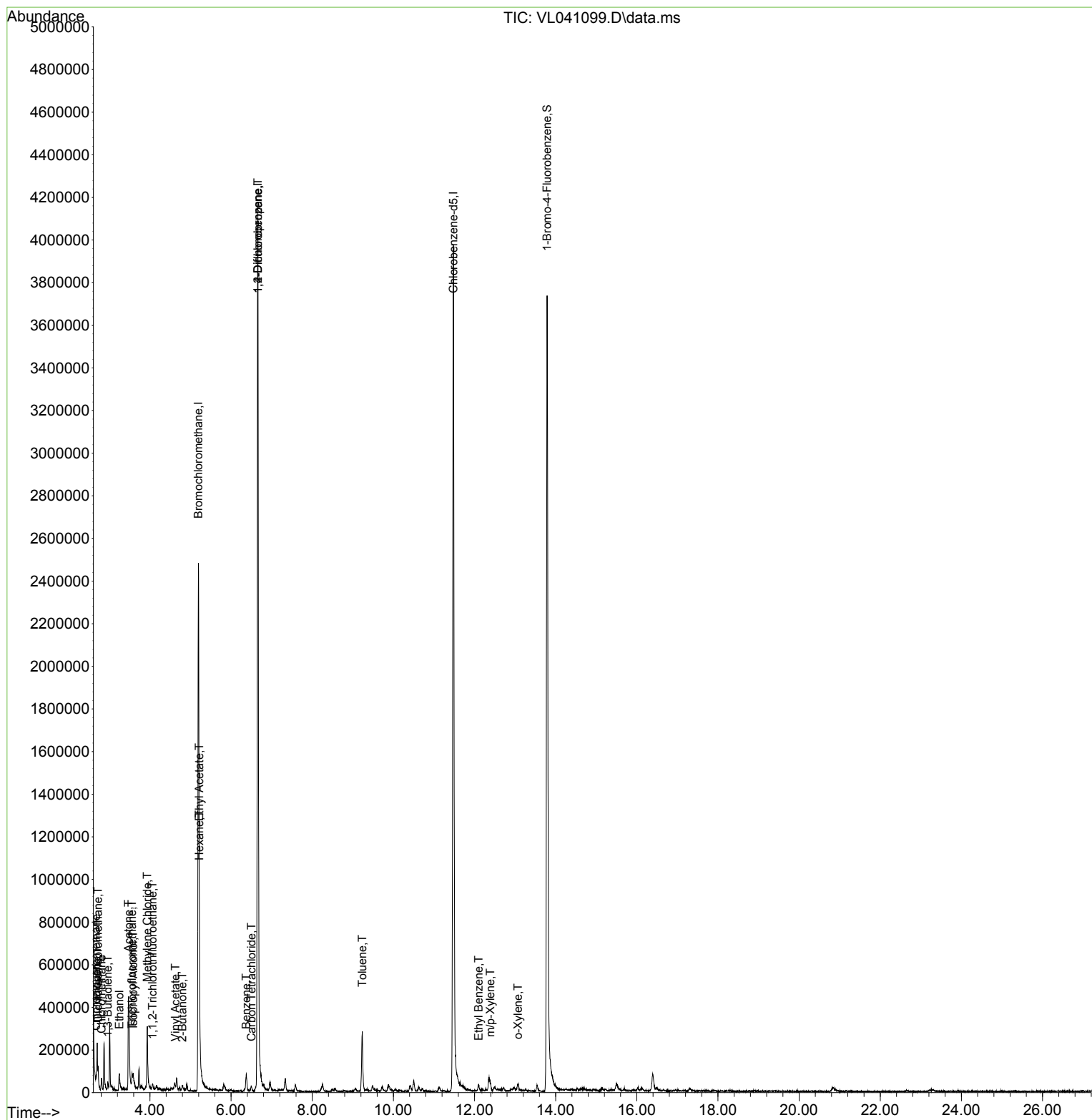
Internal Standards						
1) Bromochloromethane	5.195	49	1221231	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	3088350	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.478	117	2540444	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.790	95	1942416	9.779	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.722	85	55678	0.239	ppbv	99
3) Chlorodifluoromethane	2.671	51	65742	0.367	ppbv #	88
4) Chloromethane	2.806	50	41730	0.615	ppbv	92
9) Propene	2.697	41	50679	0.848	ppbv	83
11) Trichlorofluoromethane	3.558	101	41345	0.230	ppbv #	79
12) 1,1,2-Trichlorotrifluo...	4.066	101	9115	0.069	ppbv	89
13) Ethanol	3.247	45	52291	3.285	ppbv #	58
15) Acetone	3.472	43	518583	3.727	ppbv	96
16) 1,3-Butadiene	2.960	39	13009	0.206	ppbv #	56
19) Isopropyl Alcohol	3.587	45	65785	0.885	ppbv #	84
20) Methylene Chloride	3.935	84	95326	1.757	ppbv	97
23) Vinyl Acetate	4.626	43	5140	0.033	ppbv #	69
25) Ethyl Acetate	5.214	43	41934	0.167	ppbv #	88
26) Hexane	5.218	57	86468	0.772	ppbv #	45
34) 2-Butanone	4.800	43	12219	0.080	ppbv #	28
35) Carbon Tetrachloride	6.500	117	6698	0.037	ppbv	87
36) Benzene	6.375	78	53930	0.235	ppbv #	91
39) 1,2-Dichloropropane	6.658	63	772953	8.406	ppbv #	22
53) Toluene	9.233	91	202300	0.816	ppbv	98
58) Ethyl Benzene	12.101	91	13658	0.046	ppbv	92
59) m/p-Xylene	12.388	91	17130	0.066	ppbv #	32
60) o-Xylene	13.069	91	8377	0.034	ppbv #	31

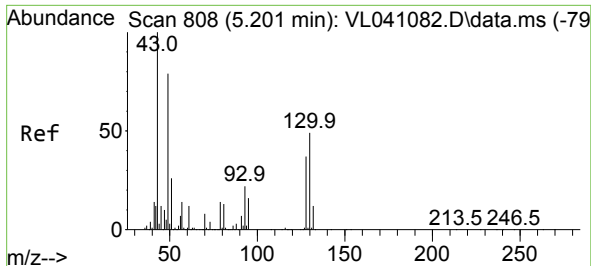
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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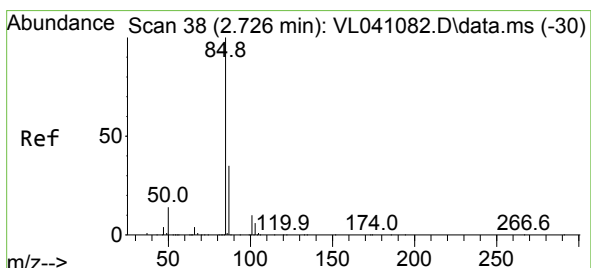
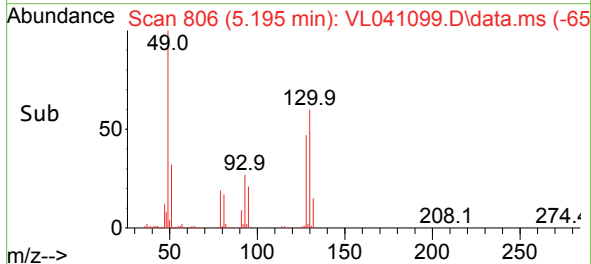
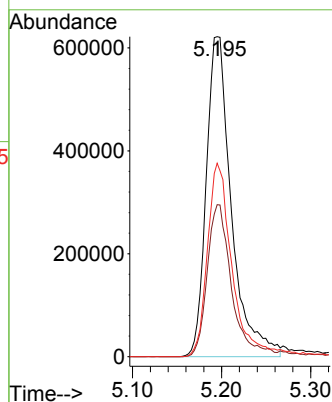
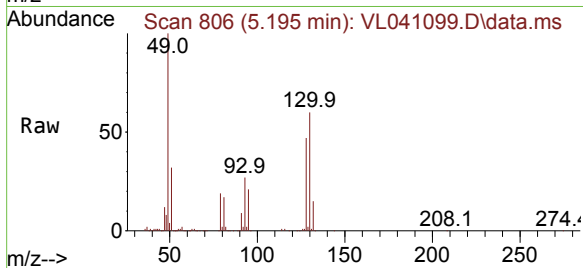




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 80
Delta R.T. 0.003 min
Lab File: VL041099.D
Acq: 12 Mar 2024 15:08

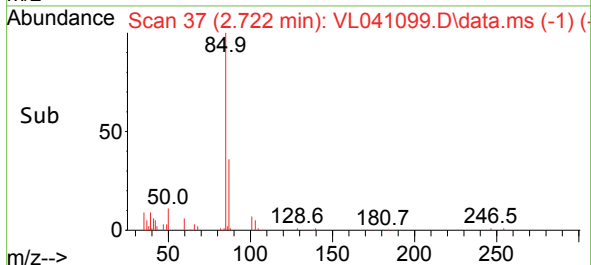
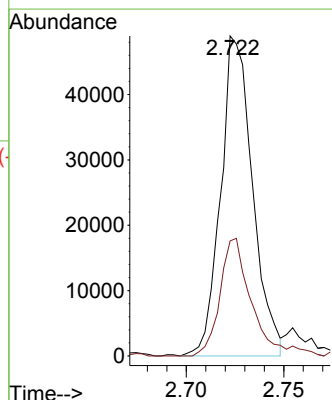
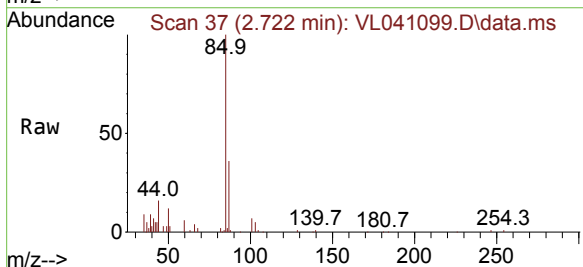
Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 49 Resp: 1221231
Ion Ratio Lower Upper
49 100
128 48.0 23.8 71.5
130 61.3 30.3 90.9

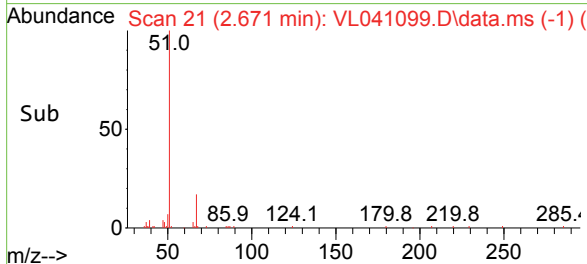
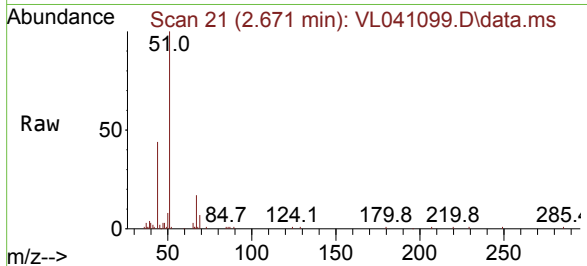
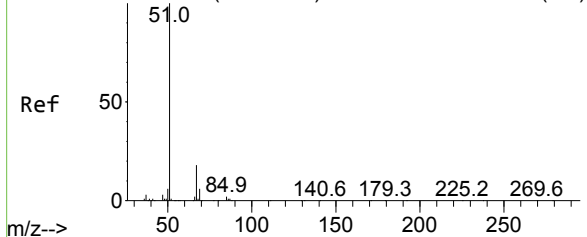


#2
Dichlorodifluoromethane
Concen: 0.239 ppbv
RT: 2.722 min Scan# 37
Delta R.T. -0.000 min
Lab File: VL041099.D
Acq: 12 Mar 2024 15:08

Tgt Ion: 85 Resp: 55678
Ion Ratio Lower Upper
85 100
87 35.9 28.1 42.1



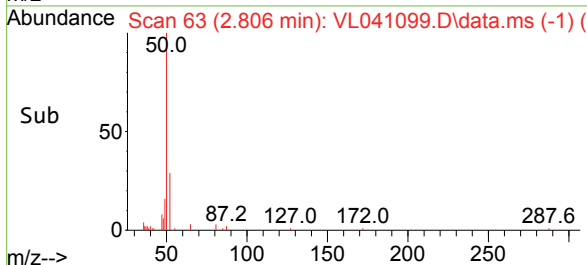
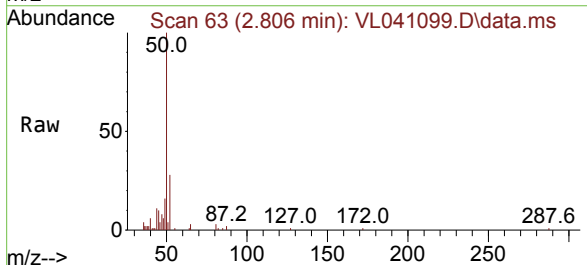
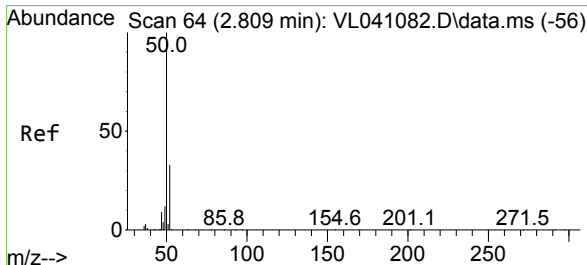
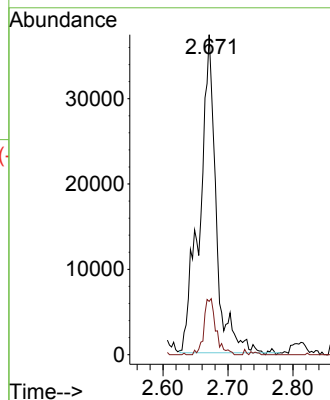
Abundance Scan 21 (2.671 min): VL041082.D\data.ms (-10)



#3
Chlorodifluoromethane
Concen: 0.367 ppbv
RT: 2.671 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL041099.D
Acq: 12 Mar 2024 15:08

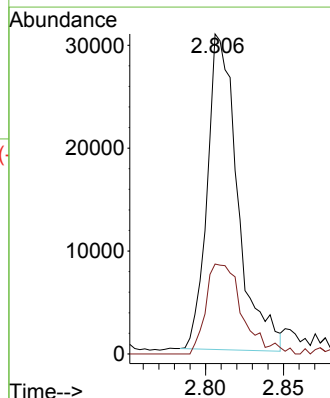
Instrument :
MSVOA_L
ClientSampleId :
OA1

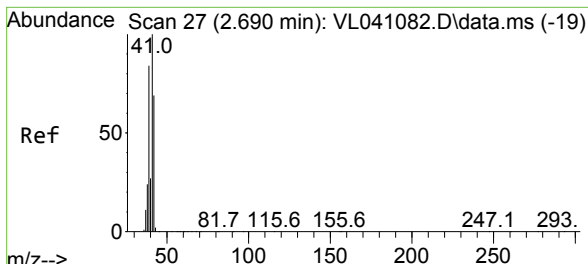
Tgt Ion: 51 Resp: 65742
Ion Ratio Lower Upper
51 100
67 12.8 14.5 21.7#



#4
Chloromethane
Concen: 0.615 ppbv
RT: 2.806 min Scan# 63
Delta R.T. 0.003 min
Lab File: VL041099.D
Acq: 12 Mar 2024 15:08

Tgt Ion: 50 Resp: 41730
Ion Ratio Lower Upper
50 100
52 28.8 26.6 40.0

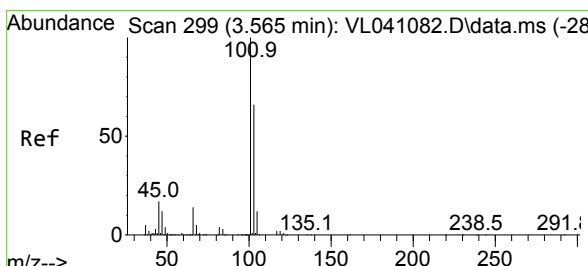
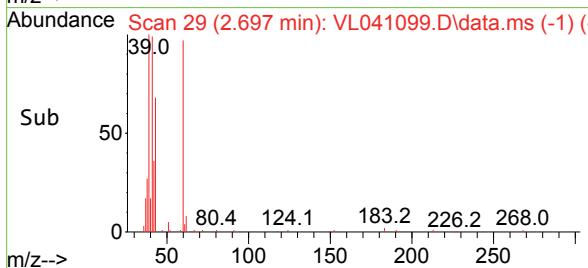
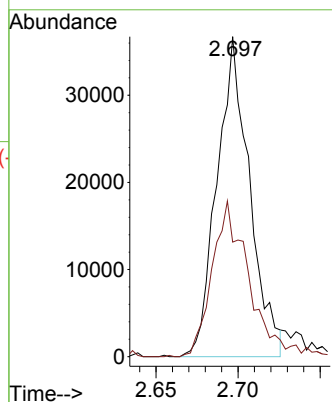
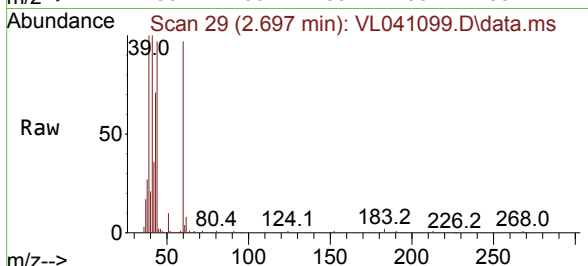




#9
 Propene
 Concen: 0.848 ppbv
 RT: 2.697 min Scan# 29
 Delta R.T. 0.013 min
 Lab File: VL041099.D
 Acq: 12 Mar 2024 15:08

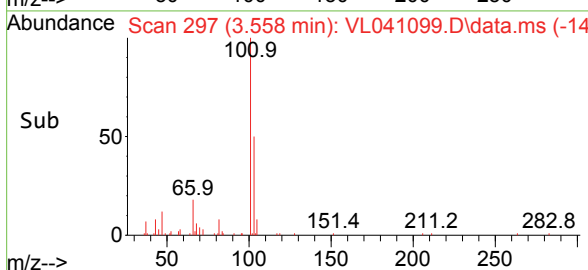
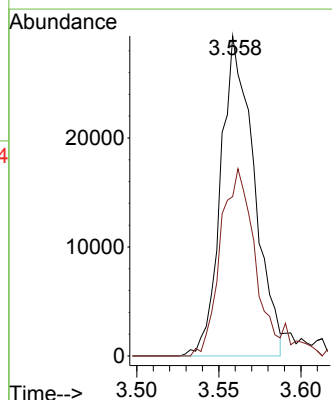
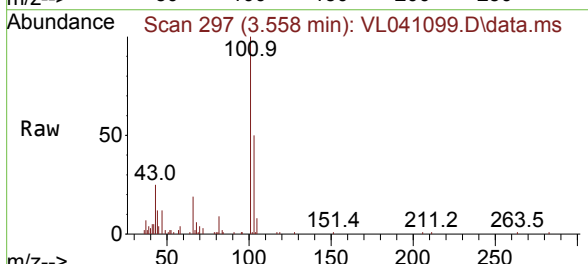
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

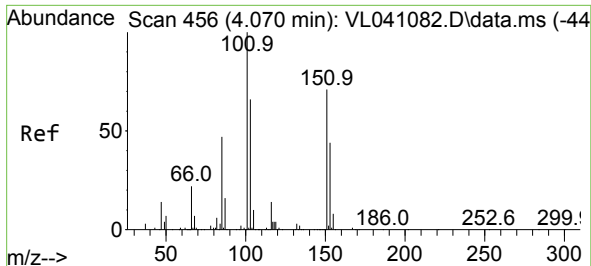
Tgt Ion: 41 Resp: 50679
 Ion Ratio Lower Upper
 41 100
 42 56.1 55.9 83.9



#11
 Trichlorofluoromethane
 Concen: 0.230 ppbv
 RT: 3.558 min Scan# 297
 Delta R.T. -0.000 min
 Lab File: VL041099.D
 Acq: 12 Mar 2024 15:08

Tgt Ion: 101 Resp: 41345
 Ion Ratio Lower Upper
 101 100
 103 49.8 53.0 79.4

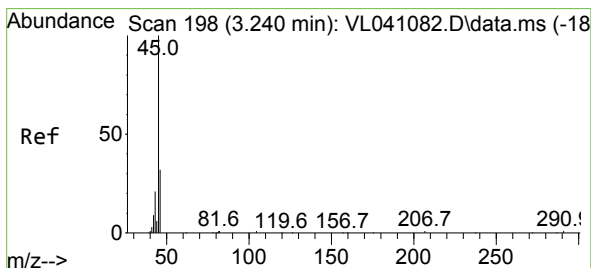
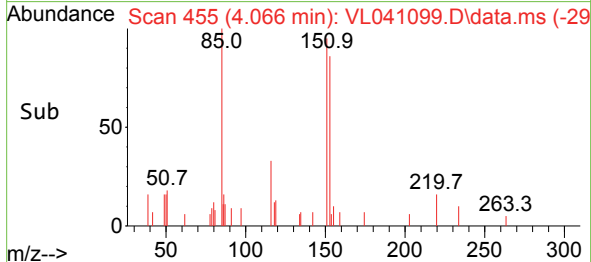
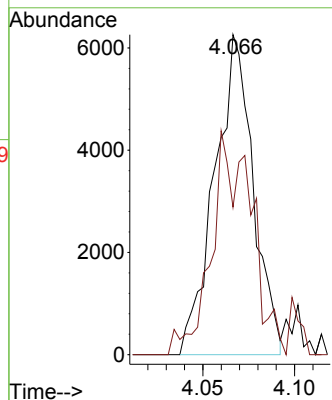
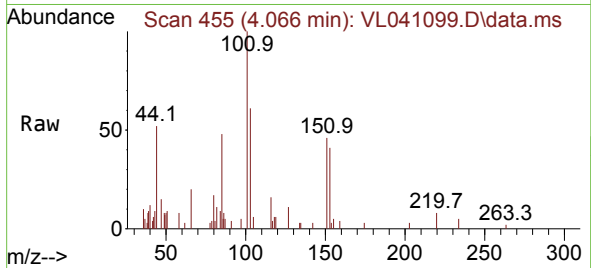




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.069 ppbv
RT: 4.066 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL041099.D
Acq: 12 Mar 2024 15:08

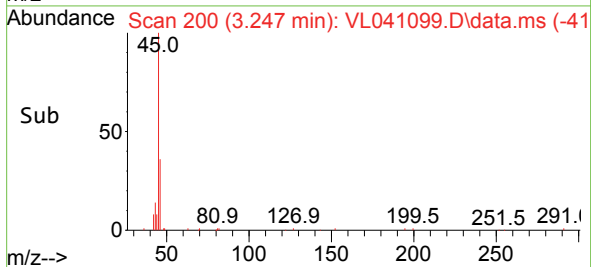
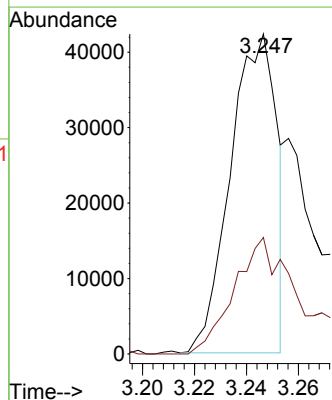
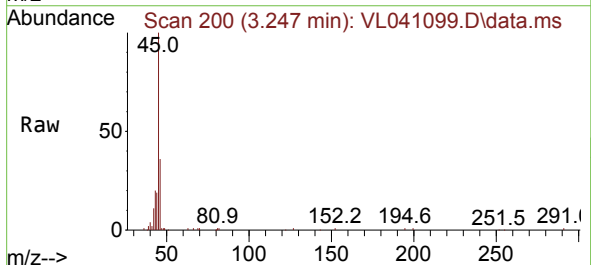
Instrument :
MSVOA_L
ClientSampleId :
OA1

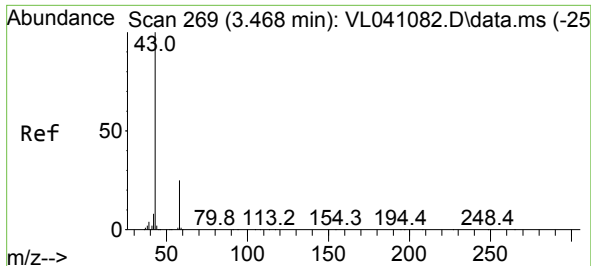
Tgt Ion:101 Resp: 9115
Ion Ratio Lower Upper
101 100
151 79.1 55.8 83.8



#13
Ethanol
Concen: 3.285 ppbv
RT: 3.247 min Scan# 200
Delta R.T. 0.013 min
Lab File: VL041099.D
Acq: 12 Mar 2024 15:08

Tgt Ion: 45 Resp: 52291
Ion Ratio Lower Upper
45 100
46 61.3 14.6 58.2#





#15

Acetone

Concen: 3.727 ppbv

RT: 3.472 min Scan# 21

Delta R.T. 0.010 min

Lab File: VL041099.D

Acq: 12 Mar 2024 15:08

Instrument :

MSVOA_L

ClientSampleId :

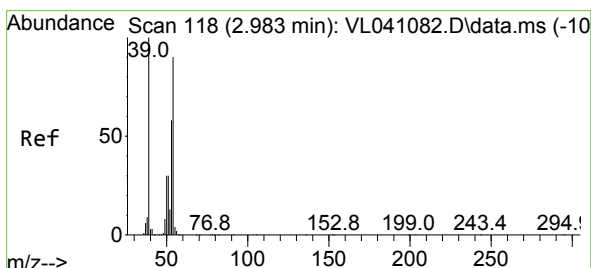
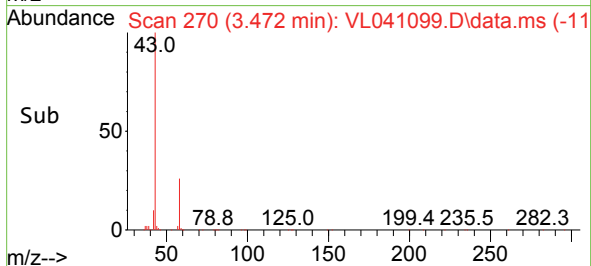
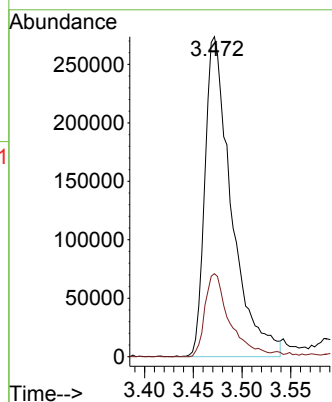
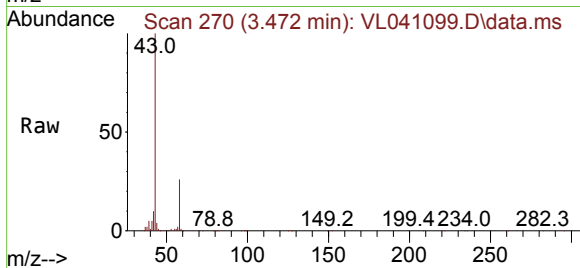
OA1

Tgt Ion: 43 Resp: 518583

Ion Ratio Lower Upper

43 100

58 24.9 21.7 32.5



#16

1,3-Butadiene

Concen: 0.206 ppbv

RT: 2.960 min Scan# 111

Delta R.T. -0.016 min

Lab File: VL041099.D

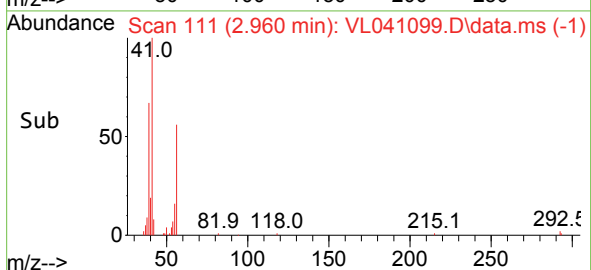
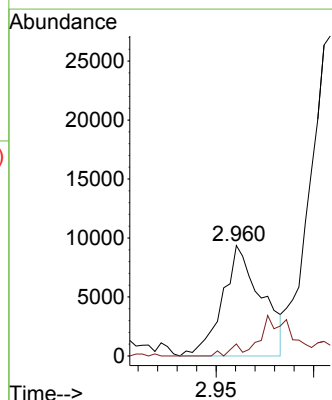
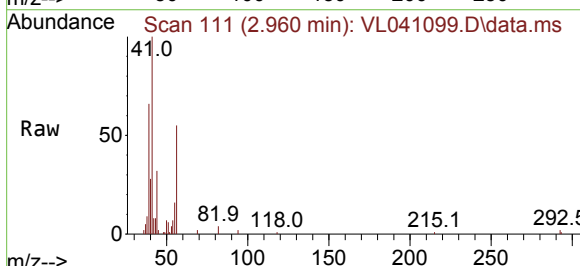
Acq: 12 Mar 2024 15:08

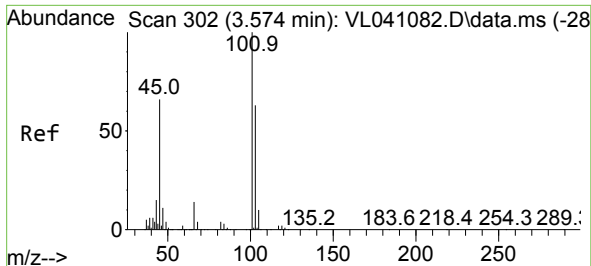
Tgt Ion: 39 Resp: 13009

Ion Ratio Lower Upper

39 100

54 41.2 64.0 96.0#

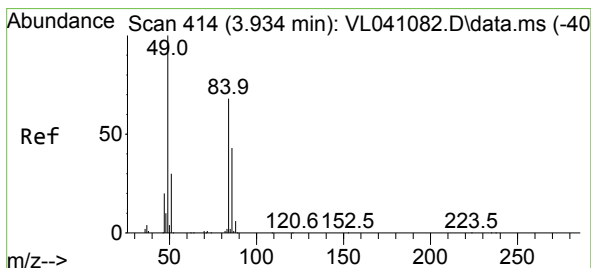
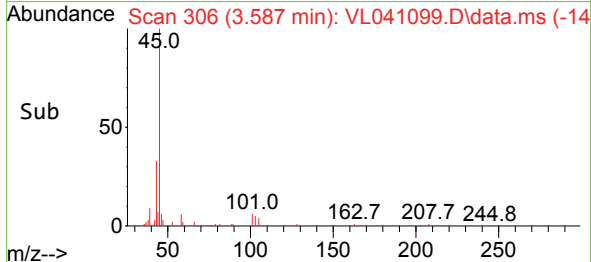
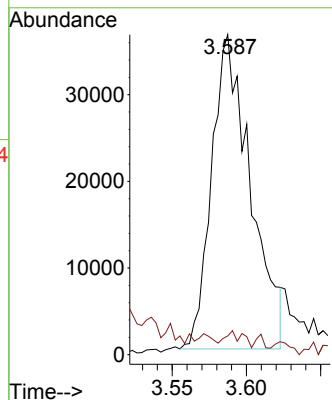
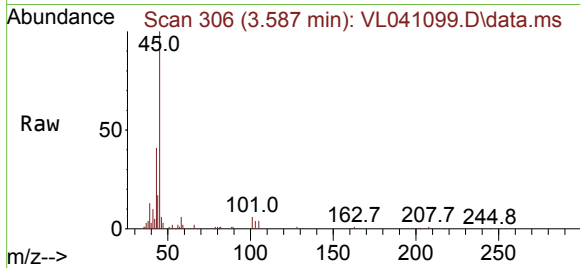




#19
Isopropyl Alcohol
Concen: 0.885 ppbv
RT: 3.587 min Scan# 306
Delta R.T. 0.019 min
Lab File: VL041099.D
Acq: 12 Mar 2024 15:08

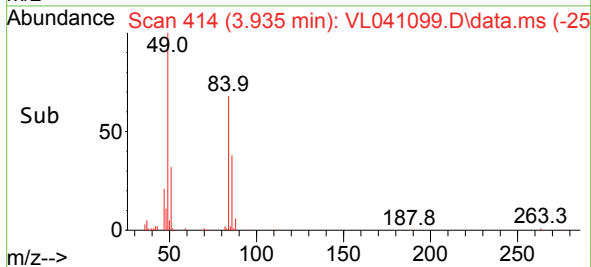
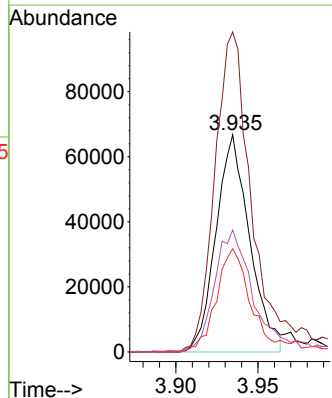
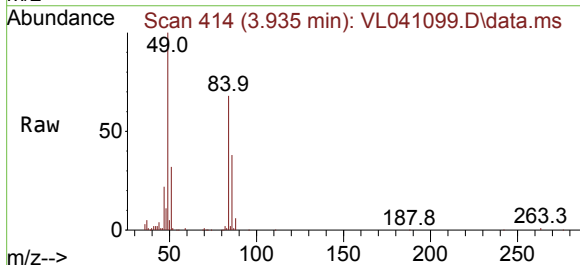
Instrument :
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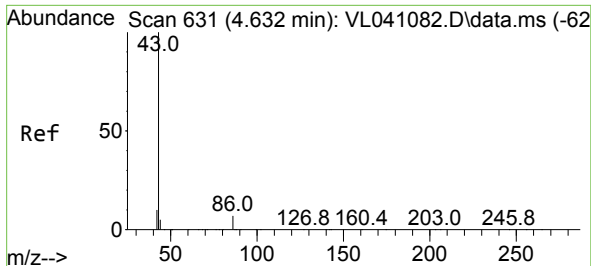
Tgt Ion: 45 Resp: 65785
Ion Ratio Lower Upper
45 100
58 8.1 2.2 3.4#



#20
Methylene Chloride
Concen: 1.757 ppbv
RT: 3.935 min Scan# 414
Delta R.T. 0.006 min
Lab File: VL041099.D
Acq: 12 Mar 2024 15:08

Tgt Ion: 84 Resp: 95326
Ion Ratio Lower Upper
84 100
49 147.4 117.0 175.6
51 47.0 34.9 52.3
86 56.2 49.8 74.6

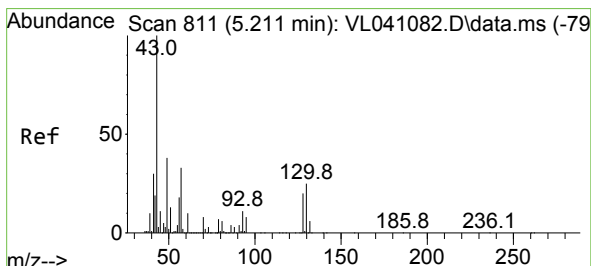
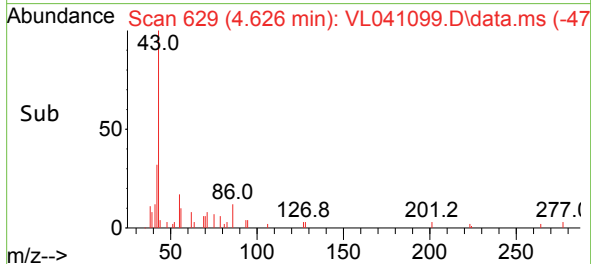
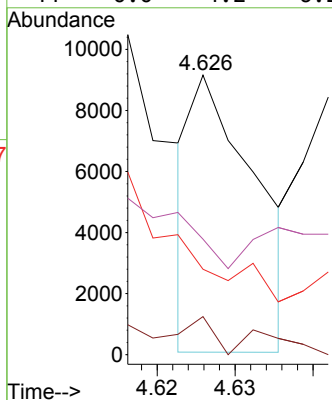
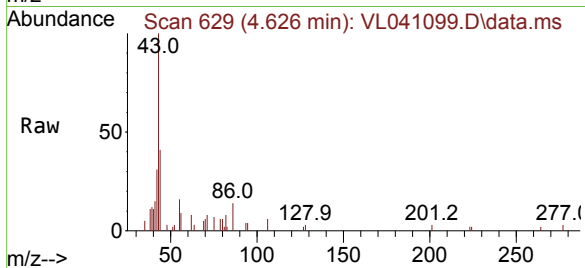




#23
 Vinyl Acetate
 Concen: 0.033 ppbv
 RT: 4.626 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL041099.D
 Acq: 12 Mar 2024 15:08

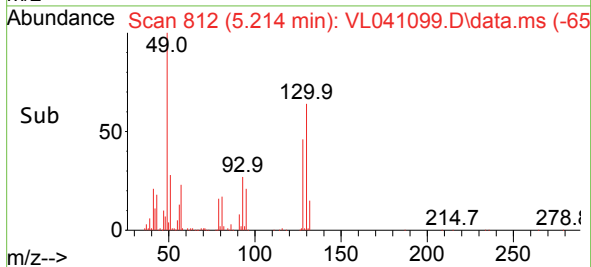
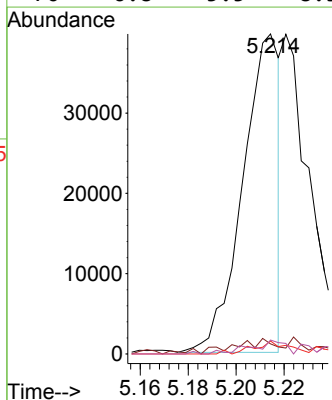
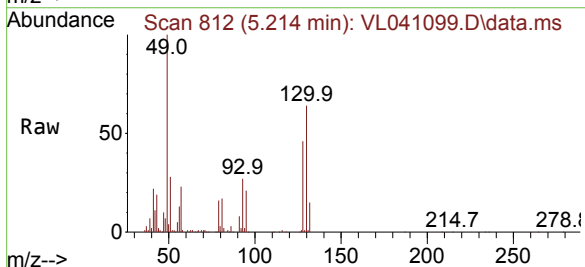
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

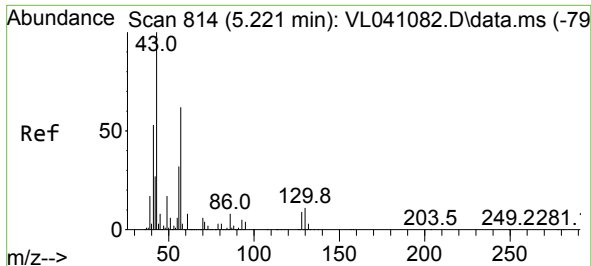
Tgt Ion: 43	Resp: 5140
Ion Ratio	Lower Upper
43 100	
86 16.5	5.4 8.2#
42 24.8	8.0 12.0#
44 0.0	4.2 6.2#



#25
 Ethyl Acetate
 Concen: 0.167 ppbv
 RT: 5.214 min Scan# 812
 Delta R.T. 0.010 min
 Lab File: VL041099.D
 Acq: 12 Mar 2024 15:08

Tgt Ion: 43	Resp: 41934
Ion Ratio	Lower Upper
43 100	
45 3.7	8.2 12.2#
61 4.8	8.2 12.2#
70 6.8	5.5 8.3

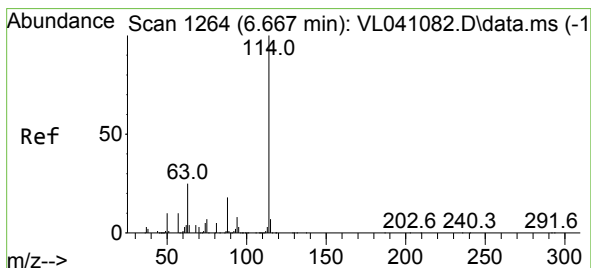
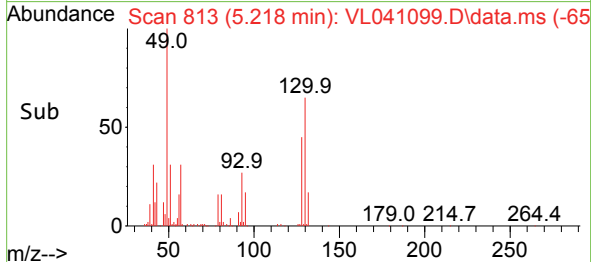
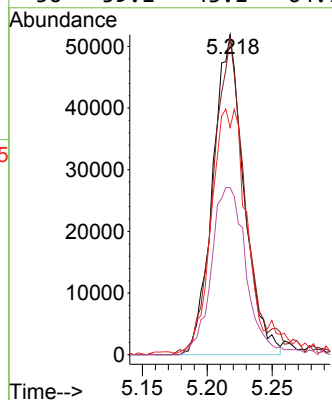
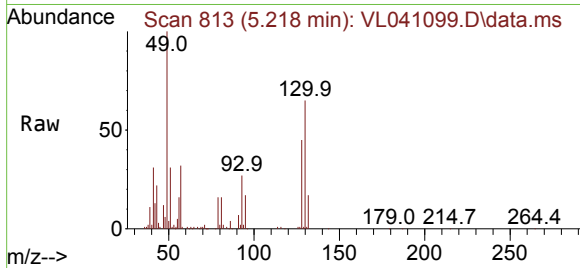




#26
Hexane
Concen: 0.772 ppbv
RT: 5.218 min Scan# 814
Delta R.T. 0.006 min
Lab File: VL041099.D
Acq: 12 Mar 2024 15:08

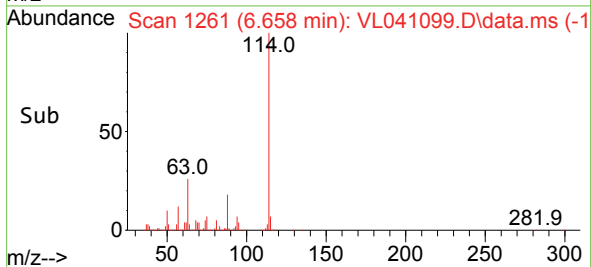
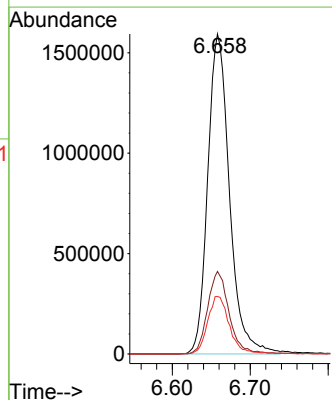
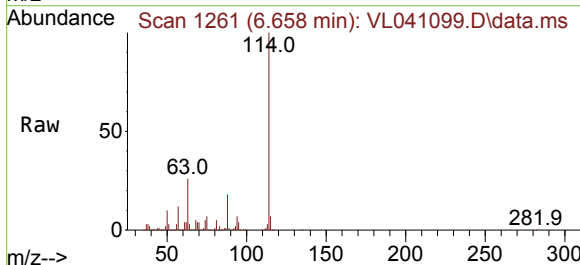
Instrument :
MSVOA_L
ClientSampleId :
OA1

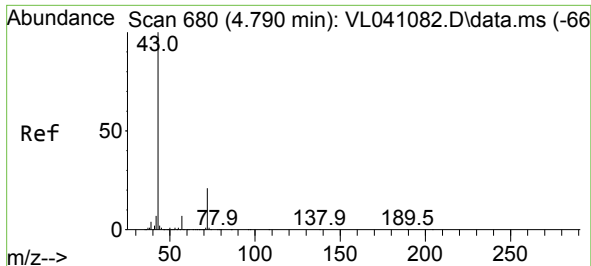
Tgt Ion: 57 Resp: 86468
Ion Ratio Lower Upper
57 100
41 104.1 73.8 110.6
43 91.6 184.2 276.2#
56 59.1 43.1 64.7



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.658 min Scan# 1261
Delta R.T. 0.003 min
Lab File: VL041099.D
Acq: 12 Mar 2024 15:08

Tgt Ion: 114 Resp: 3088350
Ion Ratio Lower Upper
114 100
63 25.8 21.0 31.6
88 18.1 14.6 22.0

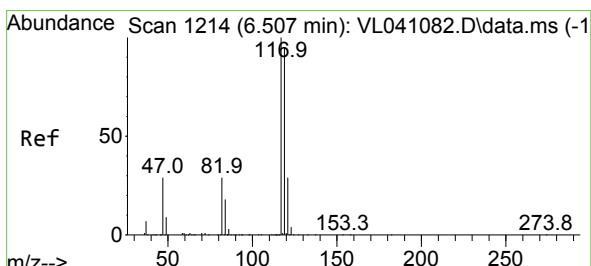
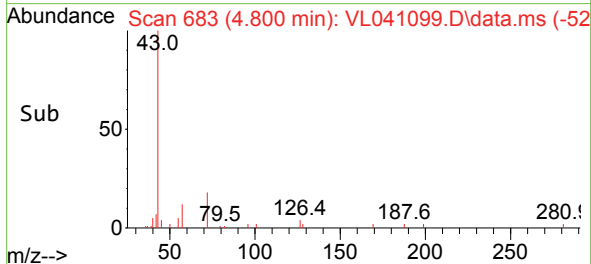
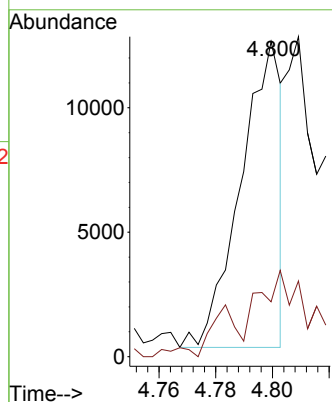
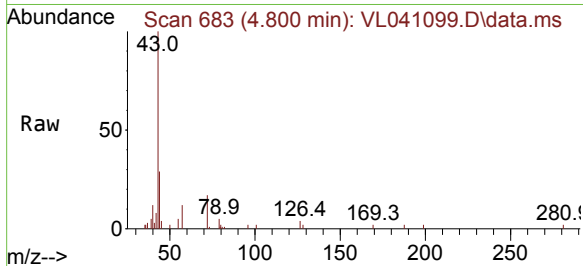




#34
2-Butanone
Concen: 0.080 ppbv
RT: 4.800 min Scan# 61
Delta R.T. 0.016 min
Lab File: VL041099.D
Acq: 12 Mar 2024 15:08

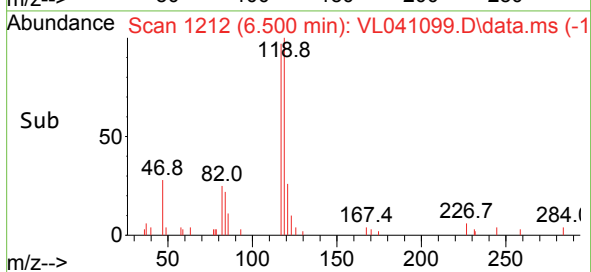
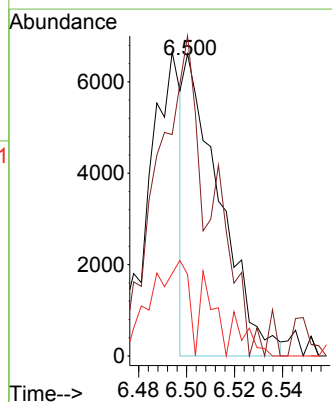
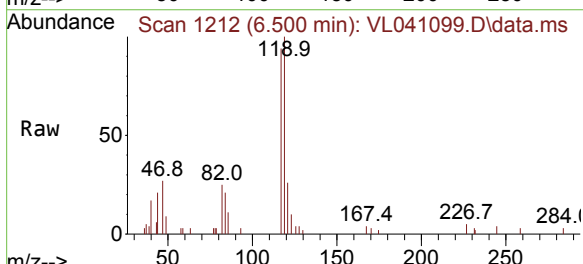
Instrument :
MSVOA_L
ClientSampleId :
OA1

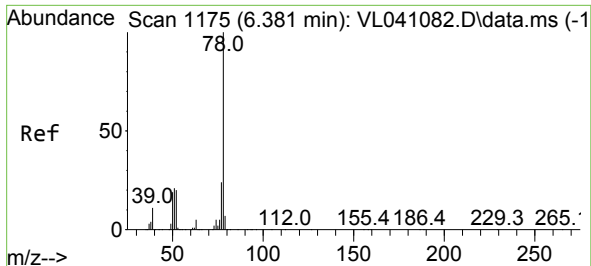
Tgt Ion: 43 Resp: 12219
Ion Ratio Lower Upper
43 100
72 55.9 17.4 26.0#



#35
Carbon Tetrachloride
Concen: 0.037 ppbv
RT: 6.500 min Scan# 1212
Delta R.T. 0.006 min
Lab File: VL041099.D
Acq: 12 Mar 2024 15:08

Tgt Ion: 117 Resp: 6698
Ion Ratio Lower Upper
117 100
119 111.1 75.6 113.4
121 28.3 23.4 35.2

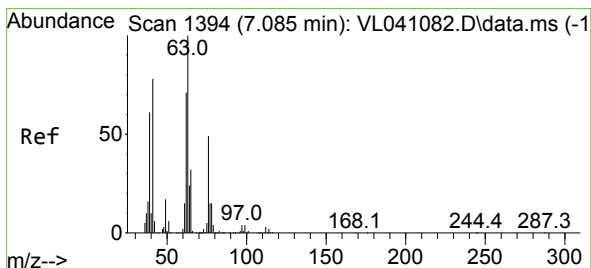
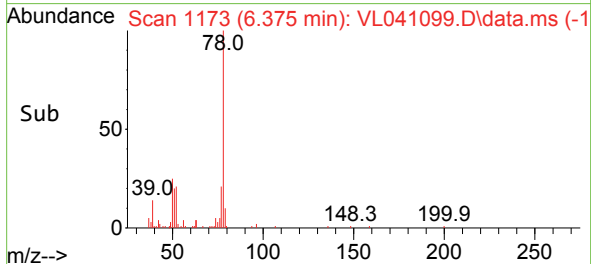
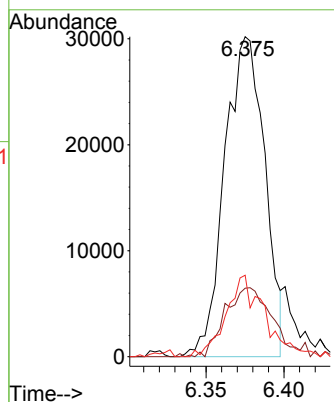
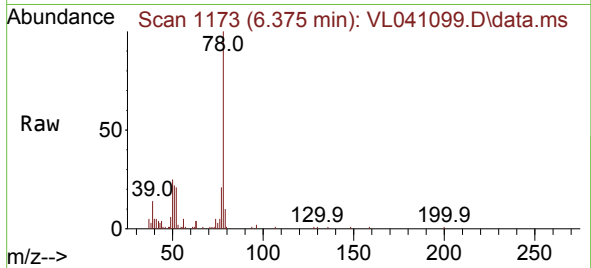




#36
Benzene
Concen: 0.235 ppbv
RT: 6.375 min Scan# 1175
Delta R.T. 0.003 min
Lab File: VL041099.D
Acq: 12 Mar 2024 15:08

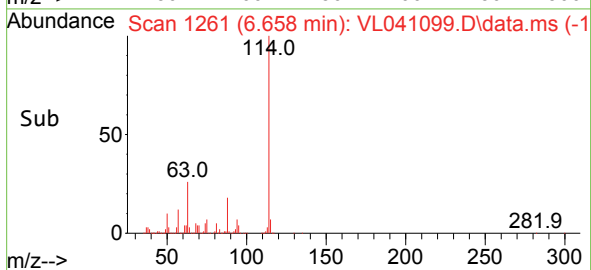
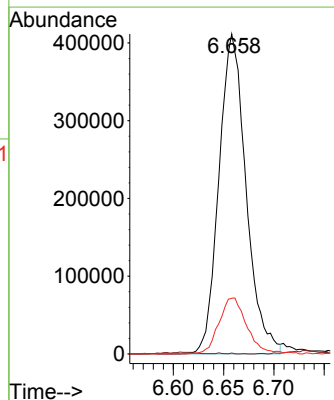
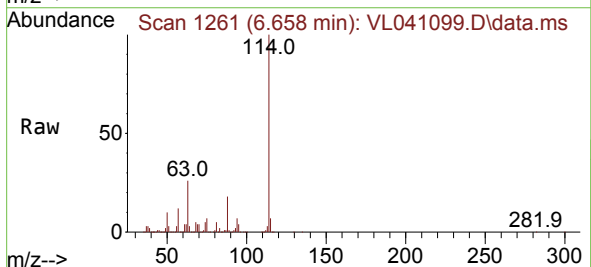
Instrument :
MSVOA_L
ClientSampleId :
OA1

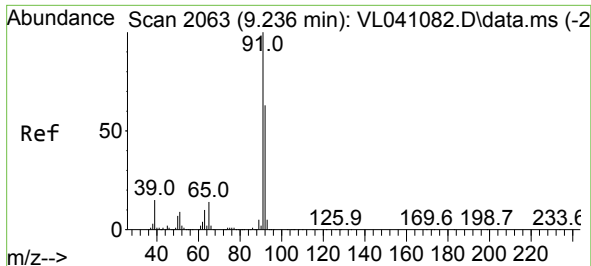
Tgt Ion: 78 Resp: 53930
Ion Ratio Lower Upper
78 100
77 20.4 18.8 28.2
50 25.5 15.5 23.3#



#39
1,2-Dichloropropane
Concen: 8.406 ppbv
RT: 6.658 min Scan# 1261
Delta R.T. -0.418 min
Lab File: VL041099.D
Acq: 12 Mar 2024 15:08

Tgt Ion: 63 Resp: 772953
Ion Ratio Lower Upper
63 100
41 0.1 62.2 93.4#
62 17.4 57.0 85.4#





#53

Toluene

Concen: 0.816 ppbv

RT: 9.233 min Scan# 2063

Delta R.T. 0.010 min

Lab File: VL041099.D

Acq: 12 Mar 2024 15:08

Instrument :

MSVOA_L

ClientSampleId :

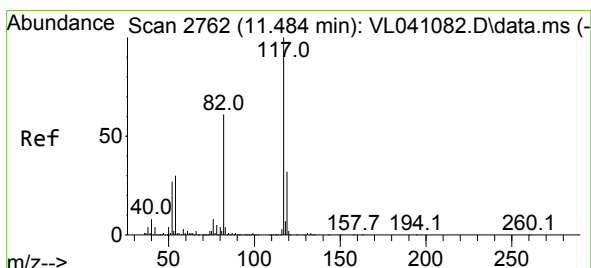
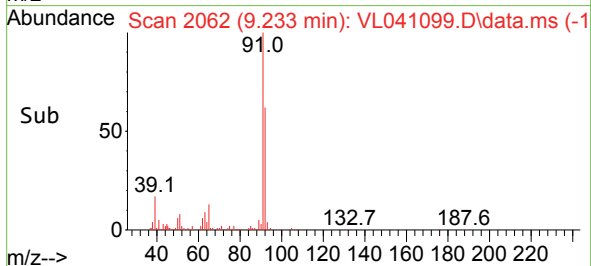
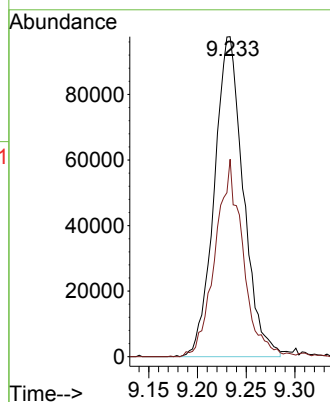
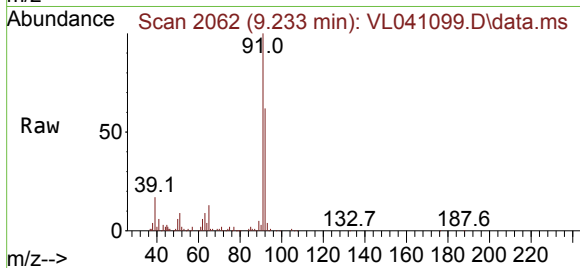
OA1

Tgt Ion: 91 Resp: 202300

Ion Ratio Lower Upper

91 100

92 59.5 48.9 73.3



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.478 min Scan# 2760

Delta R.T. 0.003 min

Lab File: VL041099.D

Acq: 12 Mar 2024 15:08

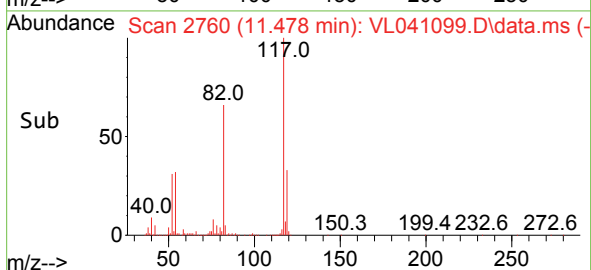
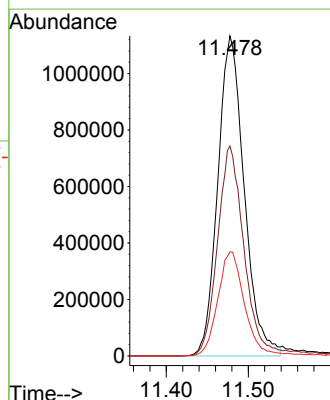
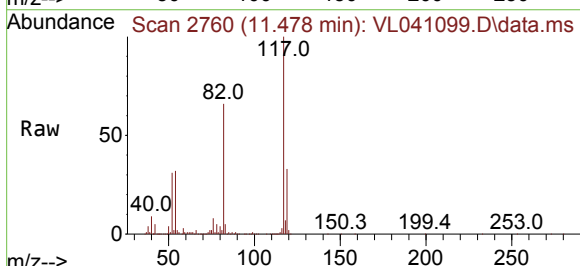
Tgt Ion: 117 Resp: 2540444

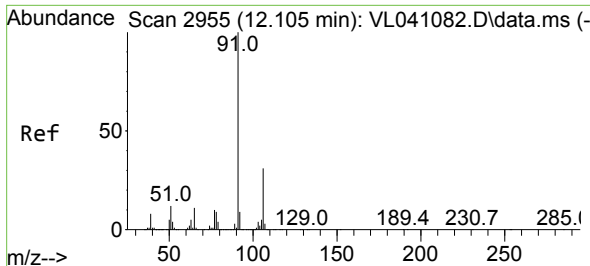
Ion Ratio Lower Upper

117 100

82 68.0 51.4 77.2

119 33.5 23.7 35.5

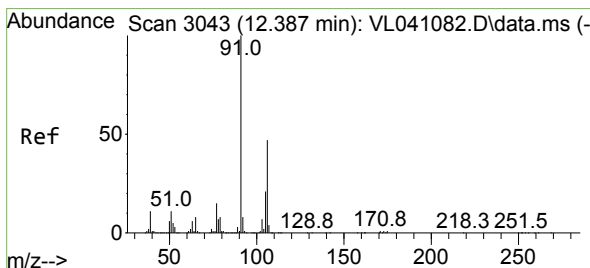
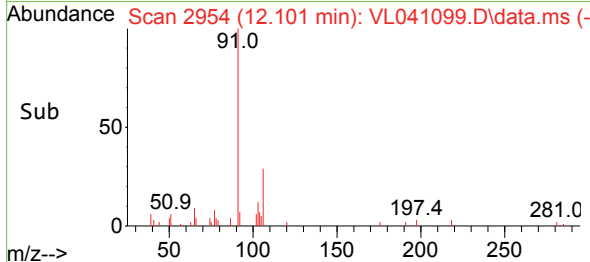
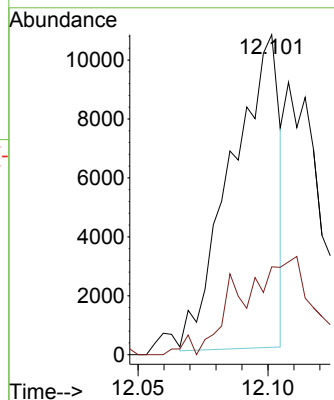
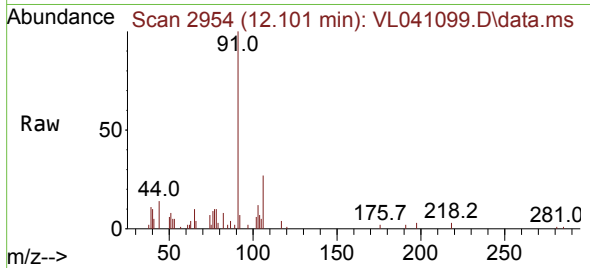




#58
Ethyl Benzene
Concen: 0.046 ppbv
RT: 12.101 min Scan# 2954
Delta R.T. 0.006 min
Lab File: VL041099.D
Acq: 12 Mar 2024 15:08

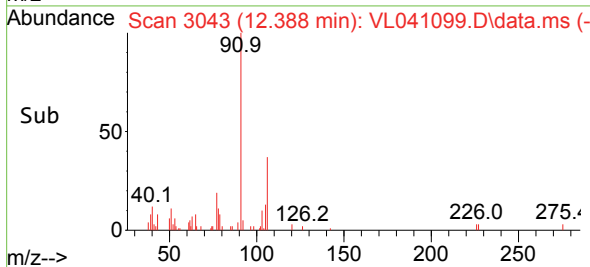
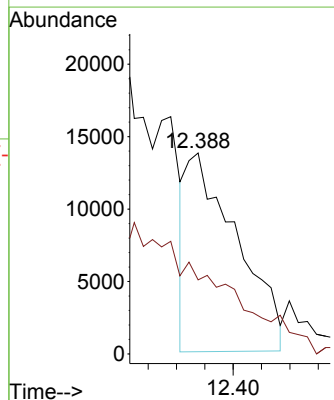
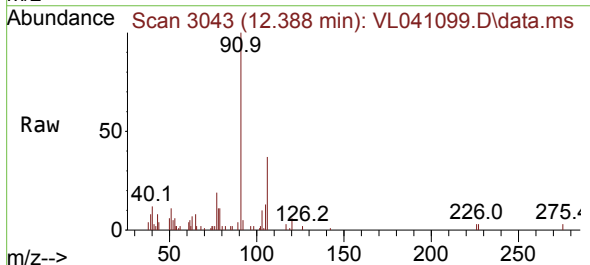
Instrument :
MSVOA_L
ClientSampleId :
OA1

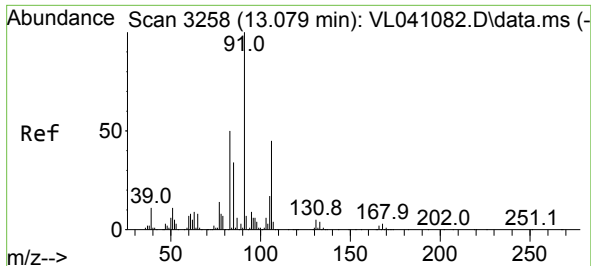
Tgt Ion: 91 Resp: 13658
Ion Ratio Lower Upper
91 100
106 26.3 24.6 36.8



#59
m/p-Xylene
Concen: 0.066 ppbv
RT: 12.388 min Scan# 3043
Delta R.T. 0.006 min
Lab File: VL041099.D
Acq: 12 Mar 2024 15:08

Tgt Ion: 91 Resp: 17130
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2#

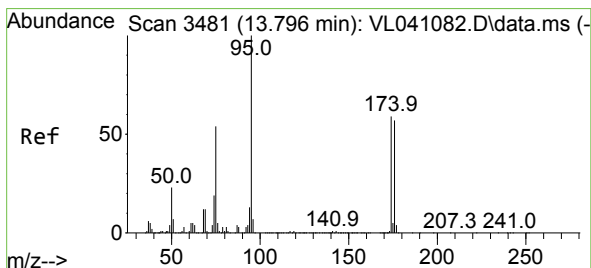
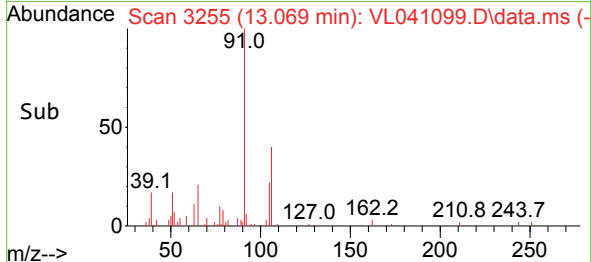
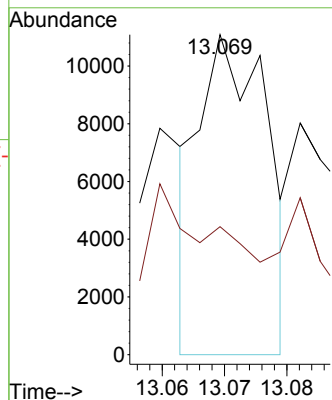
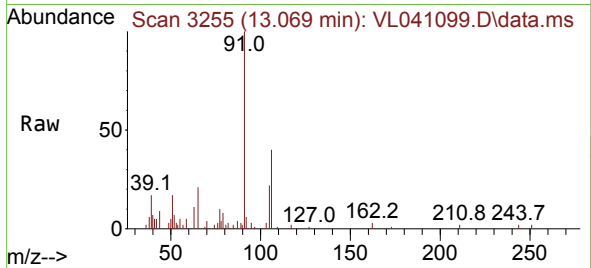




#60
o-Xylene
Concen: 0.034 ppbv
RT: 13.069 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL041099.D
Acq: 12 Mar 2024 15:08

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 91 Resp: 8377
Ion Ratio Lower Upper
91 100
106 0.0 22.4 67.3#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.779 ppbv
RT: 13.790 min Scan# 3479
Delta R.T. 0.006 min
Lab File: VL041099.D
Acq: 12 Mar 2024 15:08

Tgt Ion: 95 Resp: 1942416
Ion Ratio Lower Upper
95 100
174 61.7 47.8 71.8
175 4.7 3.5 5.3

