

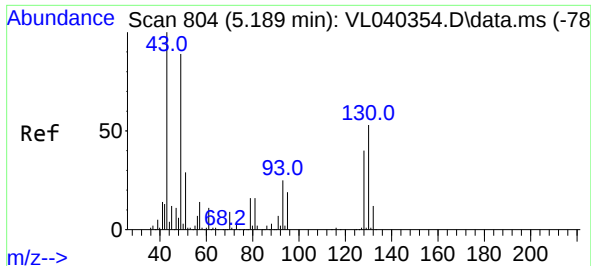
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051123\
 Data File : VL040413.D
 Acq On : 12 May 2023 8:19
 Operator : SY/MD
 Sample : 02761-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-03-20230511

Quant Time: May 12 15:57:27 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Apr 13 14:37:02 2023
 Response via : Initial Calibration

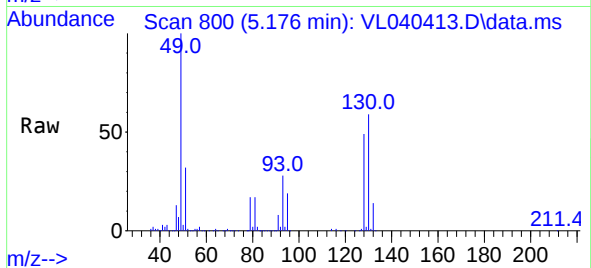
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.176	49	1035946	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.639	114	2646116	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.458	117	2391998	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1844282	9.324	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.200%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	2.652	51	52805	0.390	ppbv #	87
4) Chloromethane	2.793	50	37496	0.438	ppbv	97
9) Propene	2.674	41	244082	4.564	ppbv	97
10) Heptane	7.568	43	10571	0.087	ppbv	90
11) Trichlorofluoromethane	3.546	101	35993	0.190	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.054	101	4805	0.036	ppbv #	7
13) Ethanol	3.221	45	211775	47.435	ppbv	99
15) Acetone	3.443	43	3149297	21.464	ppbv #	67
16) 1,3-Butadiene	2.944	39	986356	16.244	ppbv #	12
17) tert-Butyl alcohol	3.864	59	253249	1.880	ppbv	99
19) Isopropyl Alcohol	3.562	45	89504	1.337	ppbv #	90
20) Methylene Chloride	3.912	84	64534	1.102	ppbv	93
21) Allyl Chloride	3.867	41	75329	0.904	ppbv #	65
23) Vinyl Acetate	4.697	43	38637	1.034	ppbv #	4
25) Ethyl Acetate	5.195	43	119805	0.485	ppbv #	82
26) Hexane	5.198	57	147639	1.418	ppbv #	39
34) 2-Butanone	4.764	43	2429129	17.024	ppbv	99
36) Benzene	6.356	78	46274	0.214	ppbv #	93
39) 1,2-Dichloropropane	6.639	63	648101	7.629	ppbv #	24
44) 2,2,4-Trimethylpentane	7.314	57	34618	0.096	ppbv #	26
51) 2-Hexanone	9.552	43	32747	0.205	ppbv #	30
53) Toluene	9.208	91	51995	0.227	ppbv #	20
58) Ethyl Benzene	12.082	91	17733	0.060	ppbv	96
59) m/p-Xylene	12.356	91	18832	0.070	ppbv #	32
60) o-Xylene	13.050	91	15099	0.058	ppbv #	32
73) 1,3,5-Trimethylbenzene	15.349	105	9283	0.035	ppbv #	73
74) 1,2,4-Trimethylbenzene	16.101	105	43907	0.145	ppbv #	68
79) Naphthalene	21.374	128	9953	0.049	ppbv #	80
80) Naphthalene,2-methyl-	24.371	142	11202	0.184	ppbv #	28

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

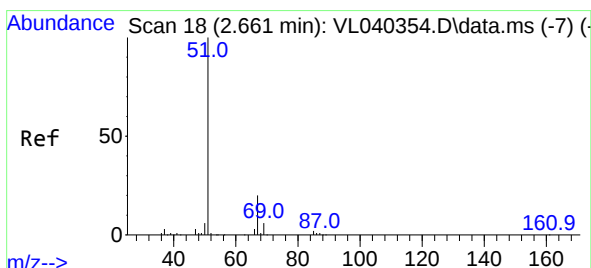
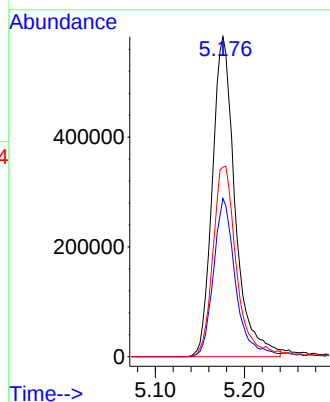
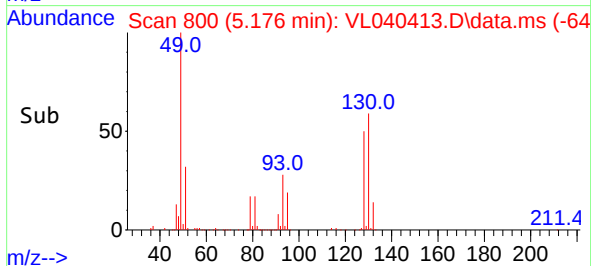


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.176 min Scan# 80
Delta R.T. -0.013 min
Lab File: VL040413.D
Acq: 12 May 2023 8:19

Instrument :
MSVOA_L
ClientSampleId :
SV-03-20230511

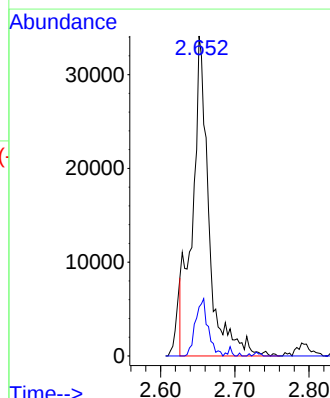
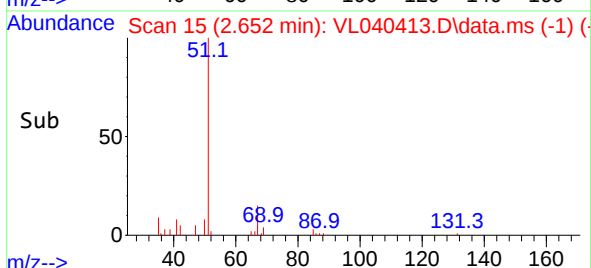
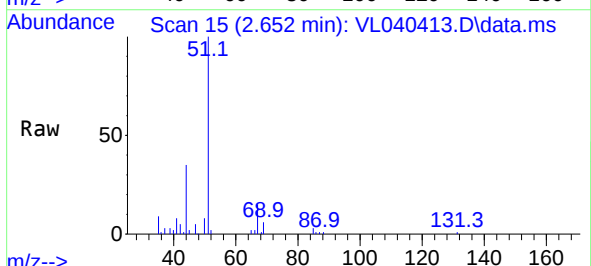


Tgt Ion: 49 Resp: 1035946
Ion Ratio Lower Upper
49 100
128 49.2 23.7 71.1
130 63.5 29.9 89.8

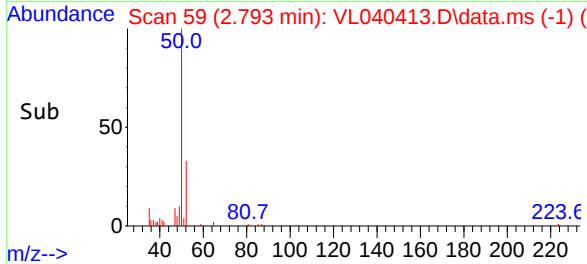
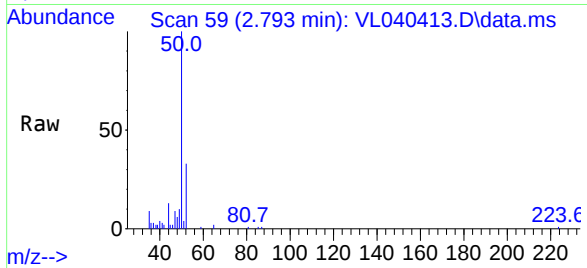
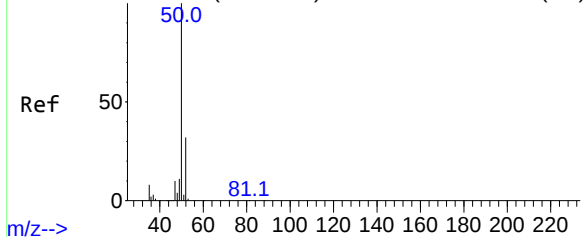


#3
Chlorodifluoromethane
Concen: 0.390 ppbv
RT: 2.652 min Scan# 15
Delta R.T. -0.009 min
Lab File: VL040413.D
Acq: 12 May 2023 8:19

Tgt Ion: 51 Resp: 52805
Ion Ratio Lower Upper
51 100
67 13.6 15.5 23.3#



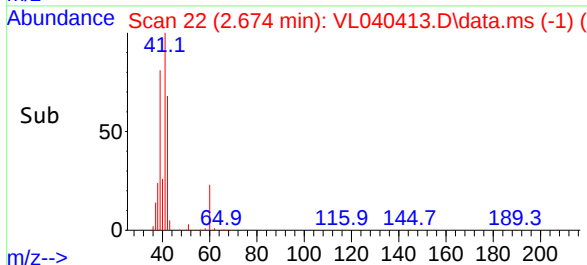
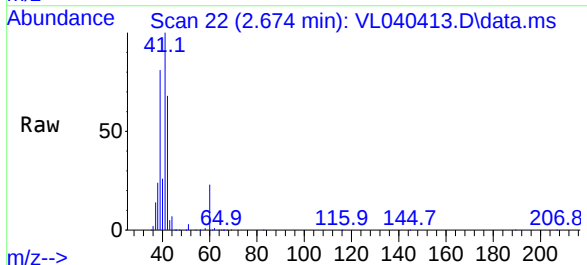
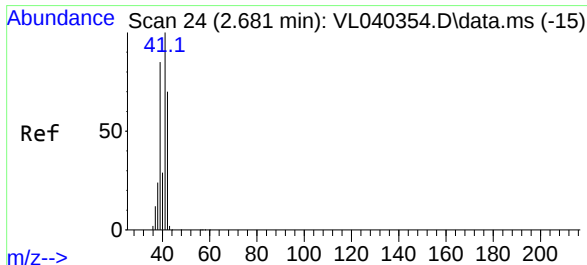
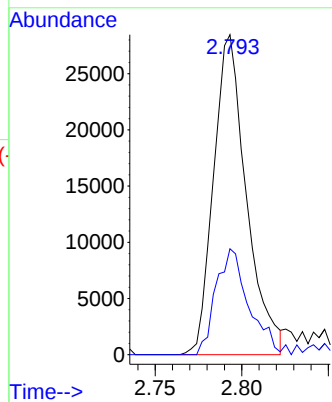
Abundance Scan 61 (2.800 min): VL040354.D\data.ms (-52)



#4
Chloromethane
Concen: 0.438 ppbv
RT: 2.793 min Scan# 51
Delta R.T. -0.007 min
Lab File: VL040413.D
Acq: 12 May 2023 8:19

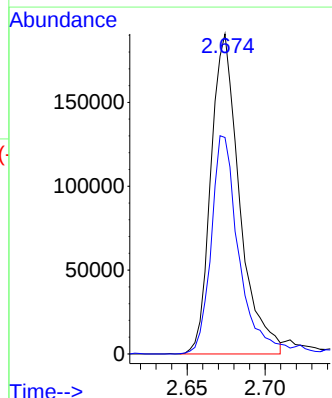
Instrument :
MSVOA_L
ClientSampleId :
SV-03-20230511

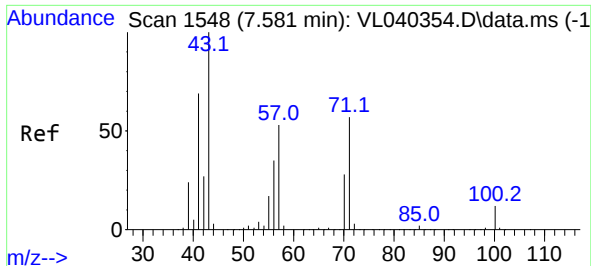
Tgt Ion: 50 Resp: 37496
Ion Ratio Lower Upper
50 100
52 33.1 25.3 37.9



#9
Propene
Concen: 4.564 ppbv
RT: 2.674 min Scan# 22
Delta R.T. -0.007 min
Lab File: VL040413.D
Acq: 12 May 2023 8:19

Tgt Ion: 41 Resp: 244082
Ion Ratio Lower Upper
41 100
42 68.3 56.5 84.7

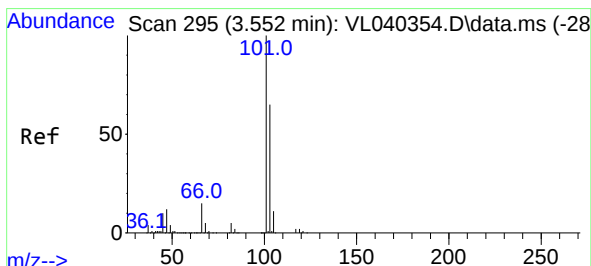
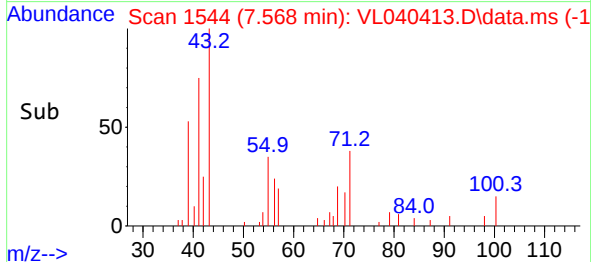
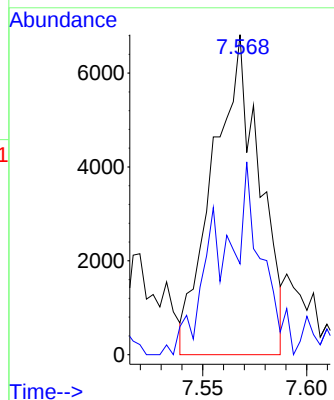
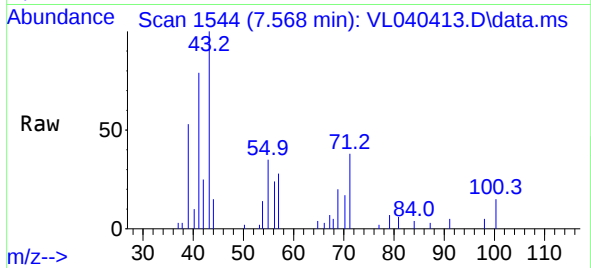




#10
Heptane
Concen: 0.087 ppbv
RT: 7.568 min Scan# 11
Delta R.T. -0.013 min
Lab File: VL040413.D
Acq: 12 May 2023 8:19

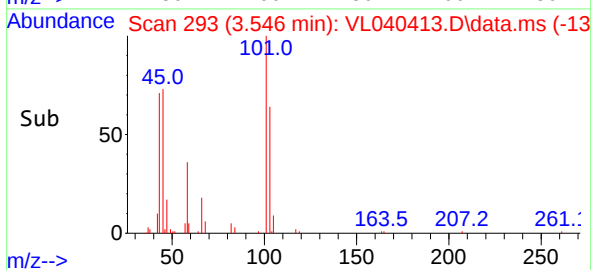
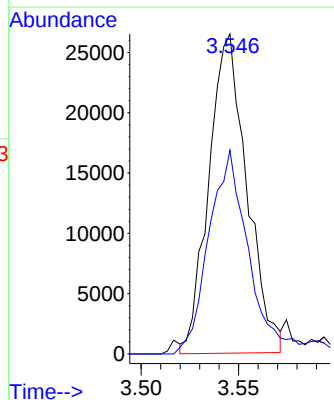
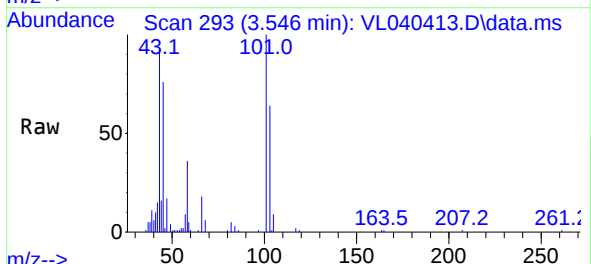
Instrument :
MSVOA_L
ClientSampleId :
SV-03-20230511

Tgt Ion: 43 Resp: 10571
Ion Ratio Lower Upper
43 100
57 59.6 42.2 63.4

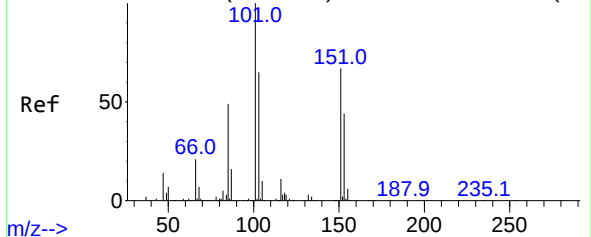


#11
Trichlorofluoromethane
Concen: 0.190 ppbv
RT: 3.546 min Scan# 293
Delta R.T. -0.006 min
Lab File: VL040413.D
Acq: 12 May 2023 8:19

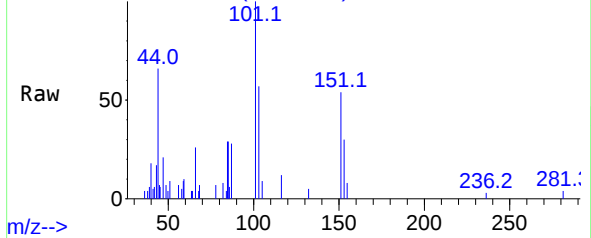
Tgt Ion:101 Resp: 35993
Ion Ratio Lower Upper
101 100
103 63.6 52.2 78.4



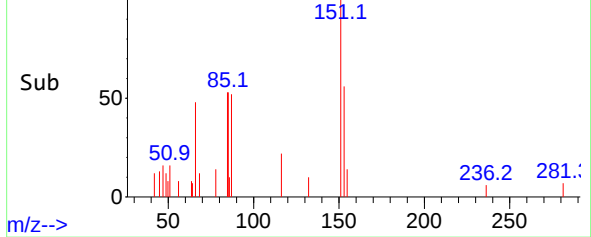
Abundance Scan 453 (4.060 min): VL040354.D\data.ms (-43



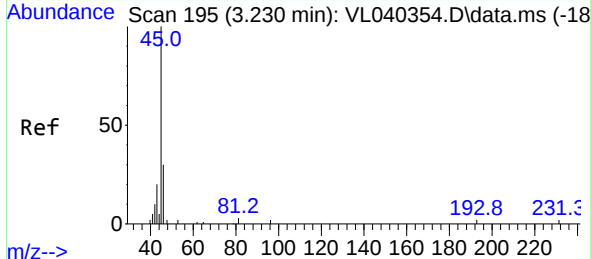
m/z--> Scan 451 (4.054 min): VL040413.D\data.ms



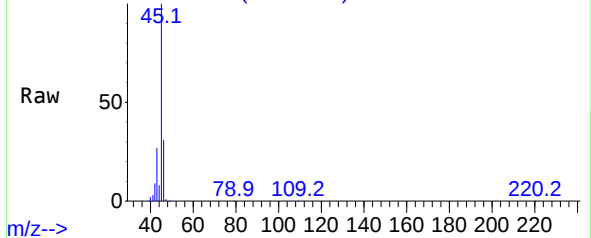
Abundance Scan 451 (4.054 min): VL040413.D\data.ms (-29



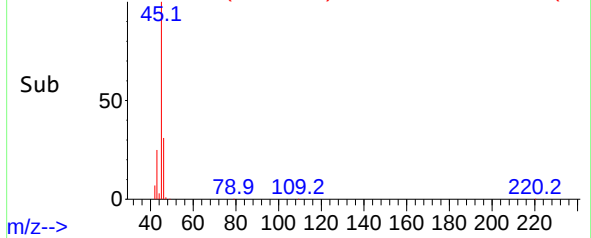
m/z--> Scan 195 (3.230 min): VL040354.D\data.ms (-18



Abundance Scan 192 (3.221 min): VL040413.D\data.ms



Abundance Scan 192 (3.221 min): VL040413.D\data.ms (-39

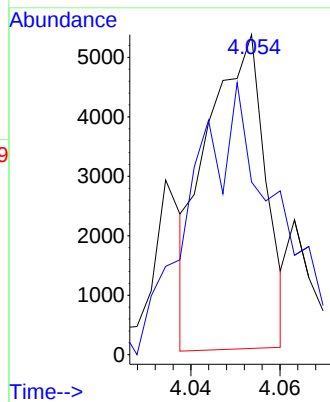


m/z-->

#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.036 ppbv
RT: 4.054 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL040413.D
Acq: 12 May 2023 8:19

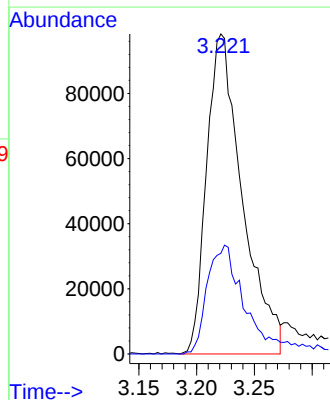
Instrument :
MSVOA_L
ClientSampleId :
SV-03-20230511

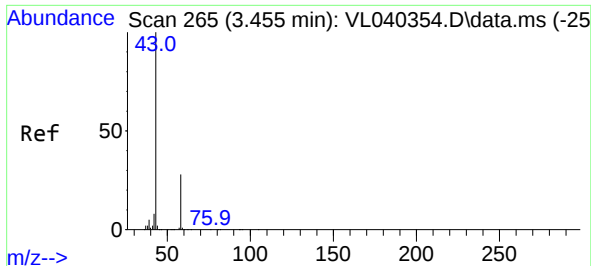
Tgt Ion:101 Resp: 4805
Ion Ratio Lower Upper
101 100
151 143.8 54.7 82.1#



#13
Ethanol
Concen: 47.435 ppbv
RT: 3.221 min Scan# 192
Delta R.T. -0.009 min
Lab File: VL040413.D
Acq: 12 May 2023 8:19

Tgt Ion: 45 Resp: 211775
Ion Ratio Lower Upper
45 100
46 37.5 15.3 61.3

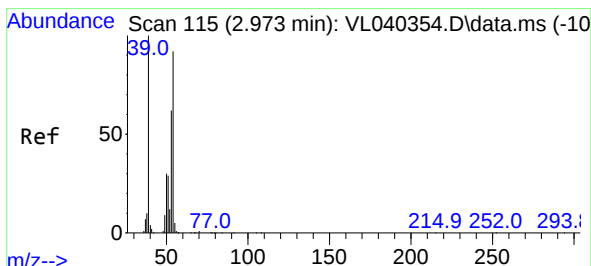
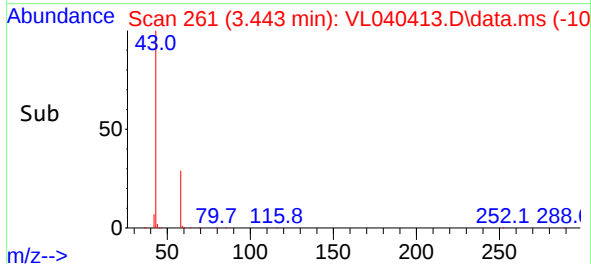
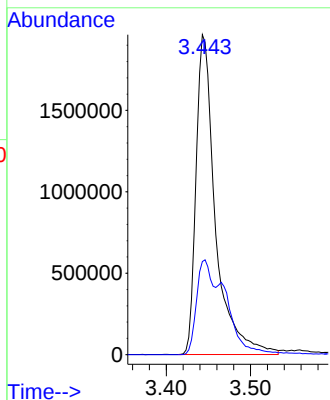
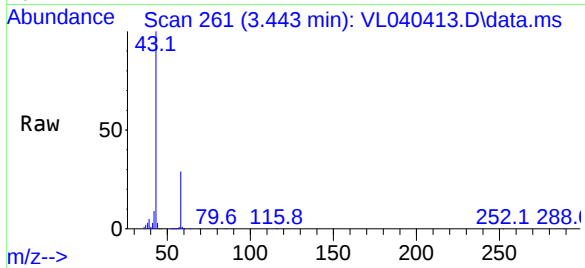




#15
Acetone
Concen: 21.464 ppbv
RT: 3.443 min Scan# 21
Delta R.T. -0.012 min
Lab File: VL040413.D
Acq: 12 May 2023 8:19

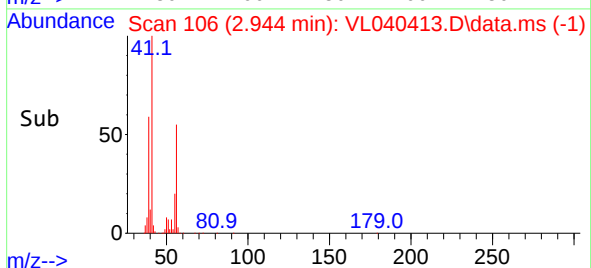
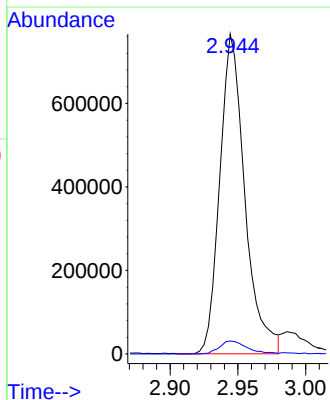
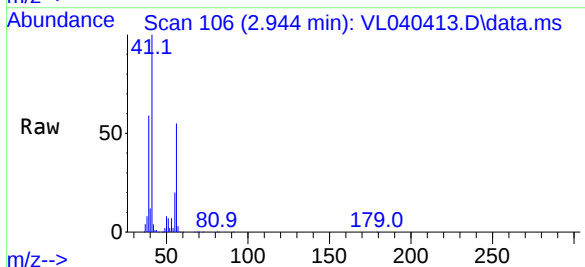
Instrument :
MSVOA_L
ClientSampleId :
SV-03-20230511

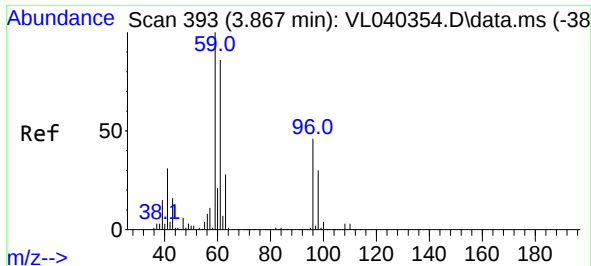
Tgt Ion: 43 Resp: 3149297
Ion Ratio Lower Upper
43 100
58 45.0 22.2 33.2#



#16
1,3-Butadiene
Concen: 16.244 ppbv
RT: 2.944 min Scan# 106
Delta R.T. -0.029 min
Lab File: VL040413.D
Acq: 12 May 2023 8:19

Tgt Ion: 39 Resp: 986356
Ion Ratio Lower Upper
39 100
54 4.8 68.8 103.2#

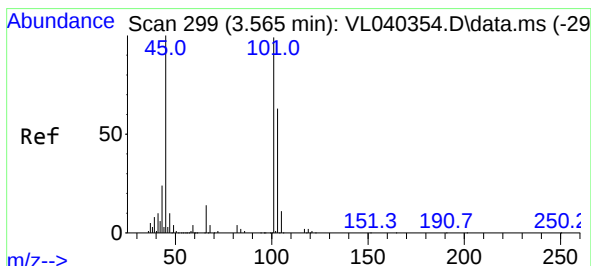
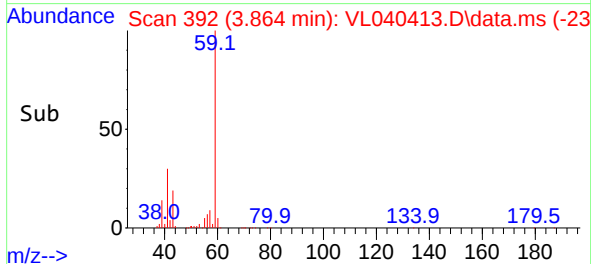
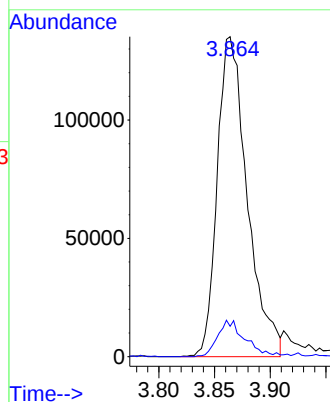
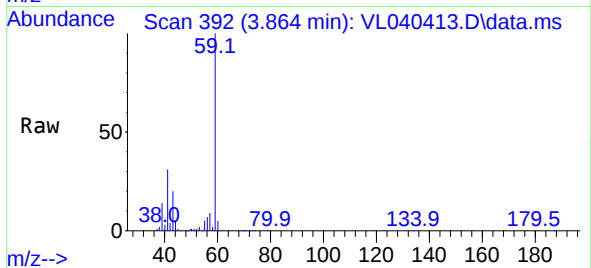




#17
tert-Butyl alcohol
Concen: 1.880 ppbv
RT: 3.864 min Scan# 393
Delta R.T. -0.003 min
Lab File: VL040413.D
Acq: 12 May 2023 8:19

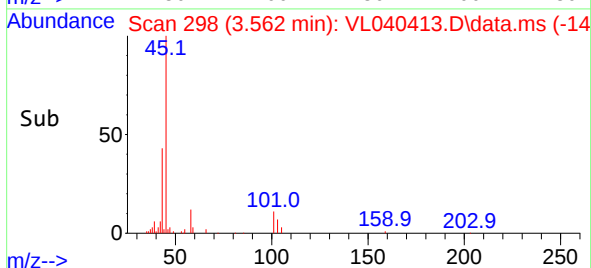
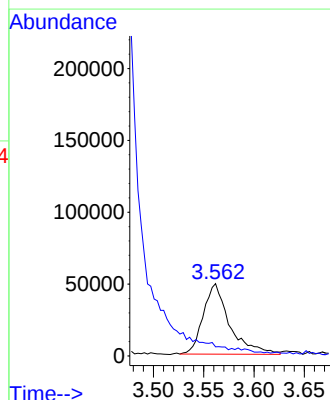
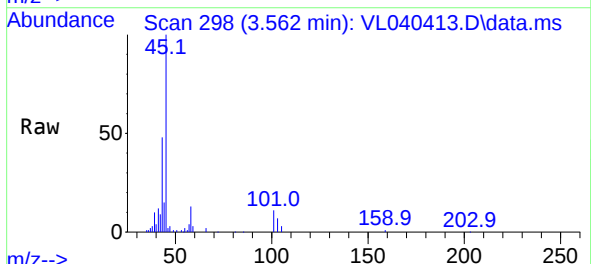
Instrument : MSVOA_L
ClientSampleId : SV-03-20230511

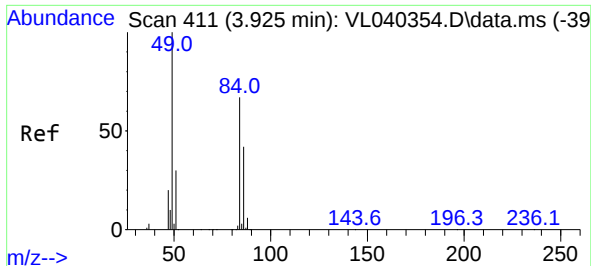
Tgt Ion: 59 Resp: 253249
Ion Ratio Lower Upper
59 100
57 10.9 8.5 12.7



#19
Isopropyl Alcohol
Concen: 1.337 ppbv
RT: 3.562 min Scan# 298
Delta R.T. -0.003 min
Lab File: VL040413.D
Acq: 12 May 2023 8:19

Tgt Ion: 45 Resp: 89504
Ion Ratio Lower Upper
45 100
58 0.0 2.6 4.0#



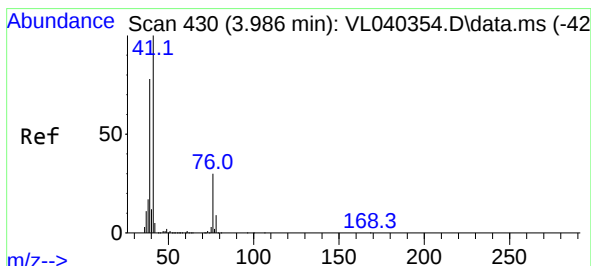
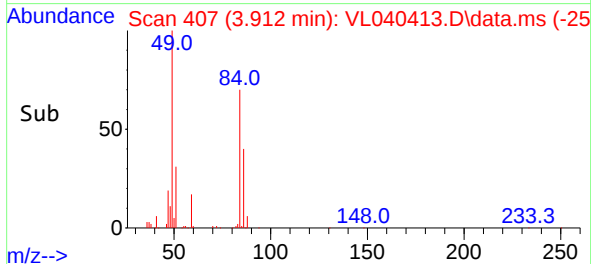
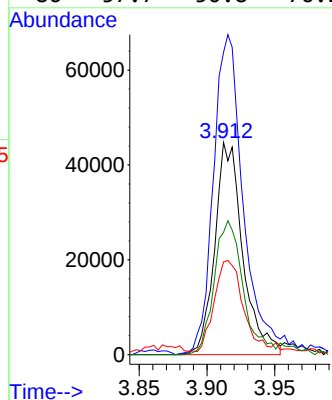
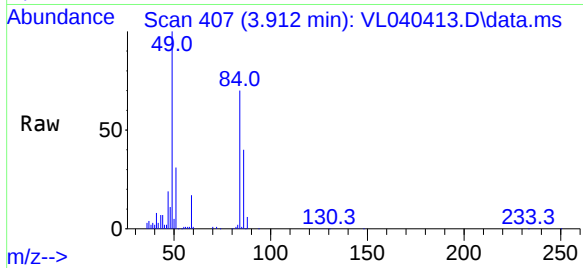


#20
Methylene Chloride
Concen: 1.102 ppbv
RT: 3.912 min Scan# 407
Delta R.T. -0.013 min
Lab File: VL040413.D
Acq: 12 May 2023 8:19

Instrument :
MSVOA_L
ClientSampleId :
SV-03-20230511

Tgt Ion: 84 Resp: 64534

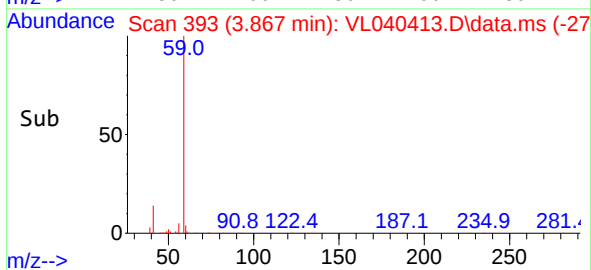
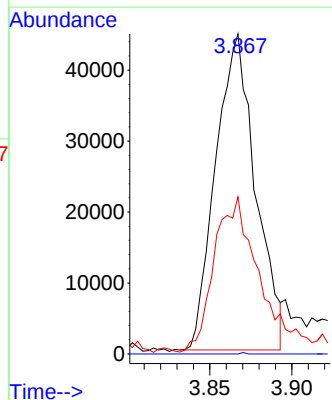
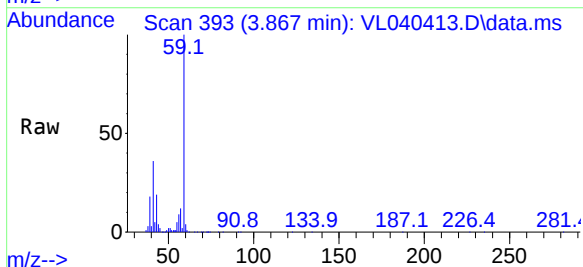
Ion	Ratio	Lower	Upper
84	100		
49	140.2	120.1	180.1
51	41.3	36.3	54.5
86	57.7	50.8	76.2

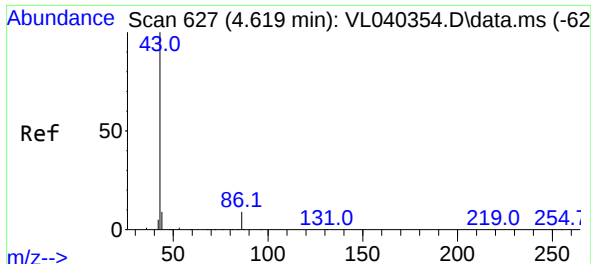


#21
Allyl Chloride
Concen: 0.904 ppbv
RT: 3.867 min Scan# 393
Delta R.T. -0.119 min
Lab File: VL040413.D
Acq: 12 May 2023 8:19

Tgt Ion: 41 Resp: 75329

Ion	Ratio	Lower	Upper
41	100		
76	0.0	25.5	38.3#
39	57.5	64.0	96.0#

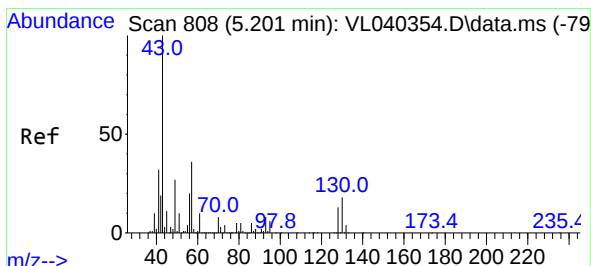
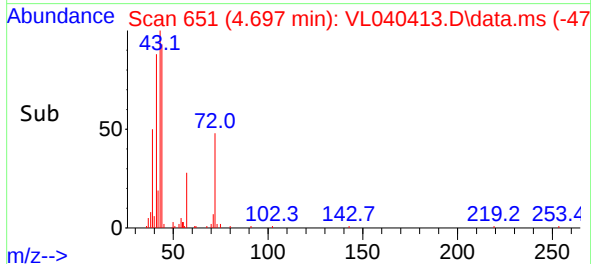
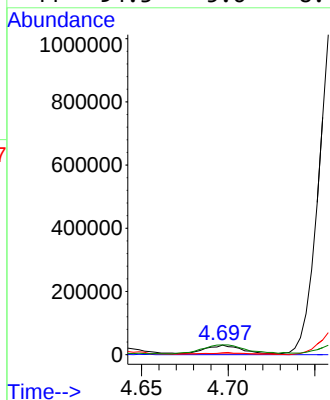
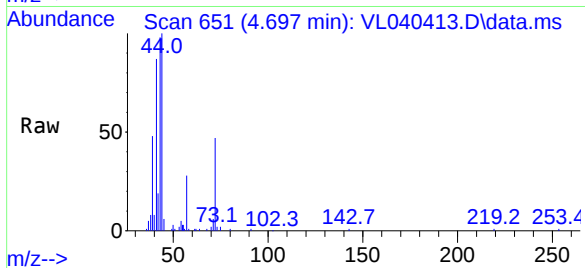




#23
Vinyl Acetate
Concen: 1.034 ppbv
RT: 4.697 min Scan# 61
Delta R.T. 0.078 min
Lab File: VL040413.D
Acq: 12 May 2023 8:19

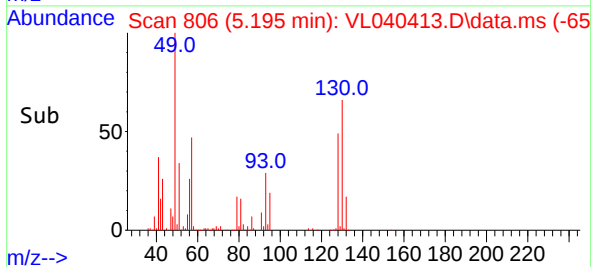
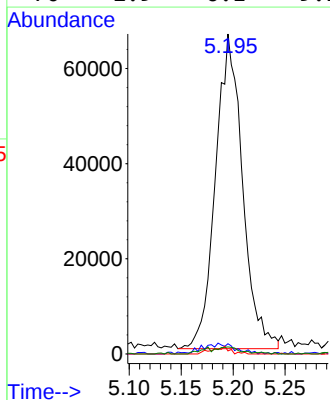
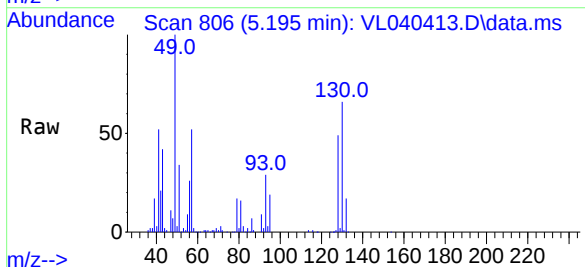
Instrument :
MSVOA_L
ClientSampleId :
SV-03-20230511

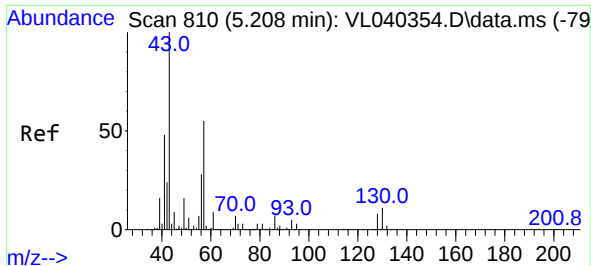
Tgt Ion:	43	Resp:	38637
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.0	9.0#
42	18.0	6.4	9.6#
44	94.3	5.6	8.4#



#25
Ethyl Acetate
Concen: 0.485 ppbv
RT: 5.195 min Scan# 806
Delta R.T. -0.006 min
Lab File: VL040413.D
Acq: 12 May 2023 8:19

Tgt Ion:	43	Resp:	119805
Ion	Ratio	Lower	Upper
43	100		
45	4.4	8.5	12.7#
61	1.5	8.5	12.7#
70	2.9	6.1	9.1#

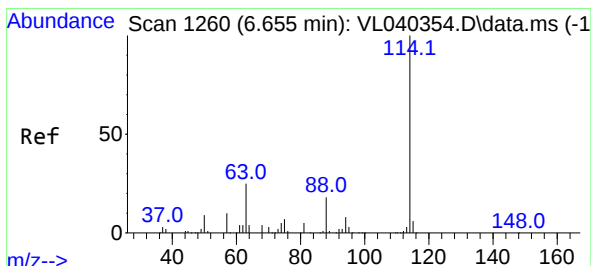
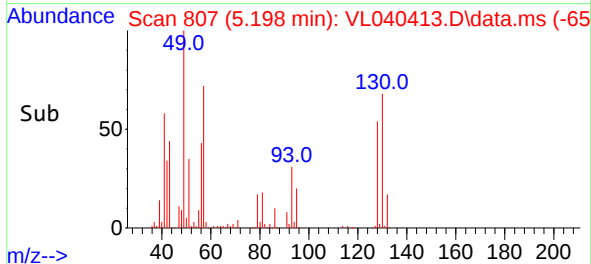
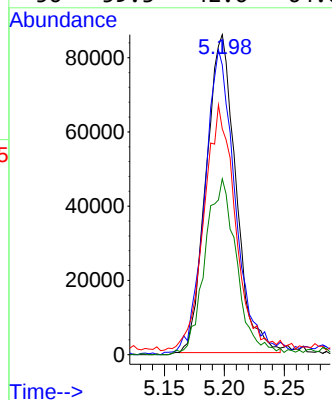
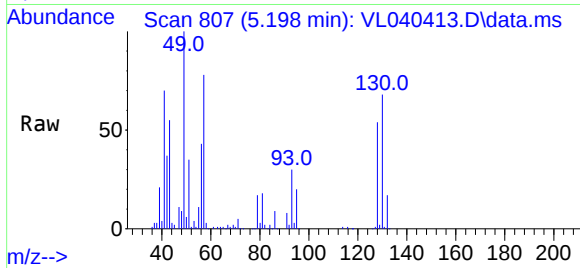




#26
Hexane
Concen: 1.418 ppbv
RT: 5.198 min Scan# 80
Delta R.T. -0.010 min
Lab File: VL040413.D
Acq: 12 May 2023 8:19

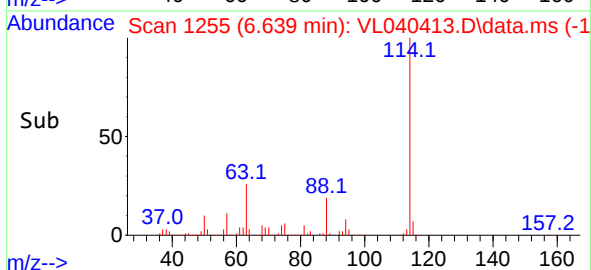
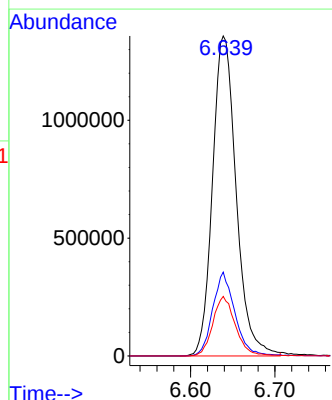
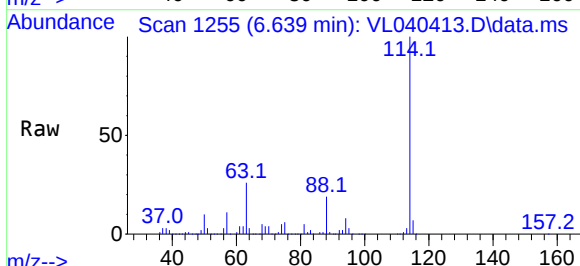
Instrument :
MSVOA_L
ClientSampleId :
SV-03-20230511

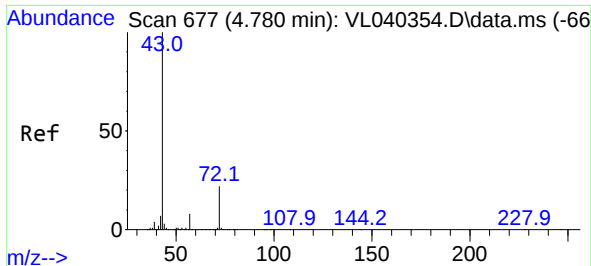
Tgt Ion: 57 Resp: 147639
Ion Ratio Lower Upper
57 100
41 103.7 74.8 112.2
43 82.7 192.7 289.1#
56 59.3 42.6 64.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.639 min Scan# 1255
Delta R.T. -0.016 min
Lab File: VL040413.D
Acq: 12 May 2023 8:19

Tgt Ion: 114 Resp: 2646116
Ion Ratio Lower Upper
114 100
63 24.9 21.4 32.0
88 18.0 14.6 22.0

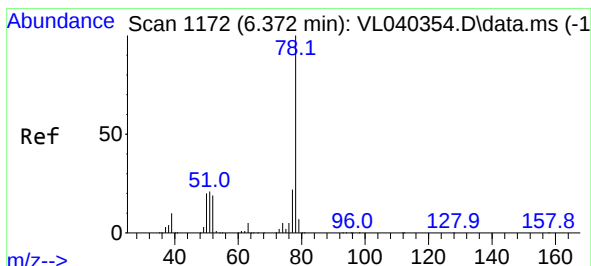
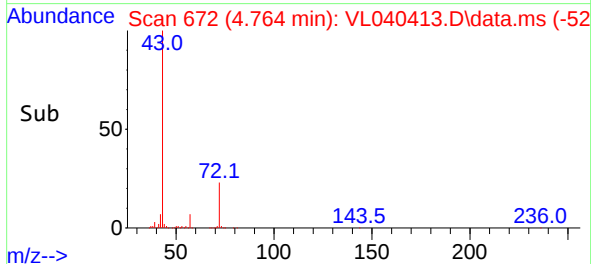
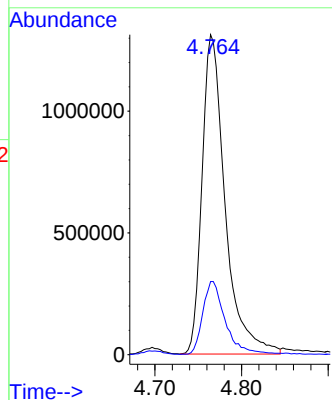
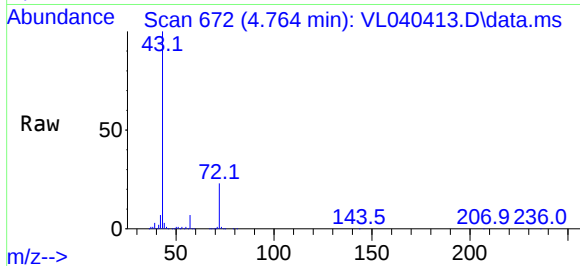




#34
2-Butanone
Concen: 17.024 ppbv
RT: 4.764 min Scan# 61
Delta R.T. -0.016 min
Lab File: VL040413.D
Acq: 12 May 2023 8:19

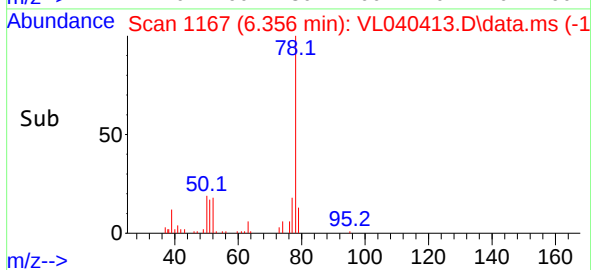
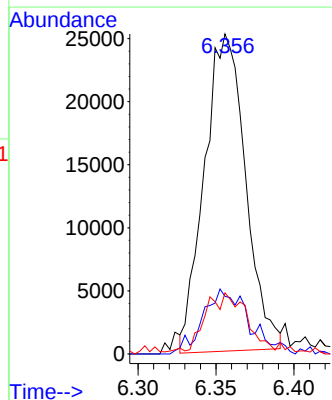
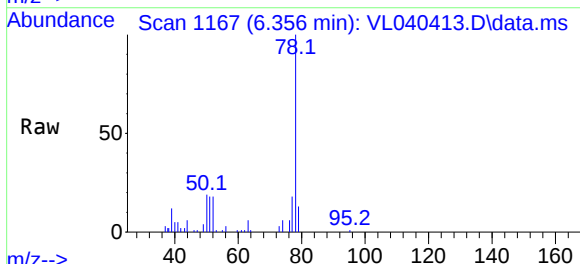
Instrument :
MSVOA_L
ClientSampleId :
SV-03-20230511

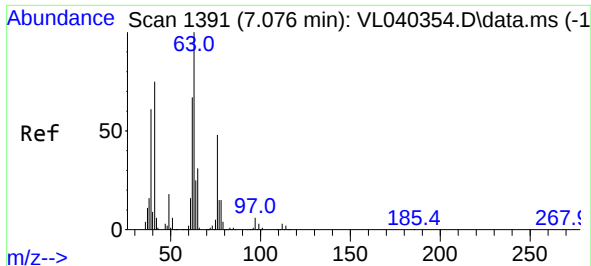
Tgt Ion: 43 Resp: 2429129
Ion Ratio Lower Upper
43 100
72 22.7 18.4 27.6



#36
Benzene
Concen: 0.214 ppbv
RT: 6.356 min Scan# 1167
Delta R.T. -0.016 min
Lab File: VL040413.D
Acq: 12 May 2023 8:19

Tgt Ion: 78 Resp: 46274
Ion Ratio Lower Upper
78 100
77 17.2 17.8 26.8#
50 18.4 15.6 23.4





#39

1,2-Dichloropropane

Concen: 7.629 ppbv

RT: 6.639 min Scan# 1465

Delta R.T. -0.437 min

Lab File: VL040413.D

Acq: 12 May 2023 8:19

Instrument :

MSVOA_L

ClientSampleId :

SV-03-20230511

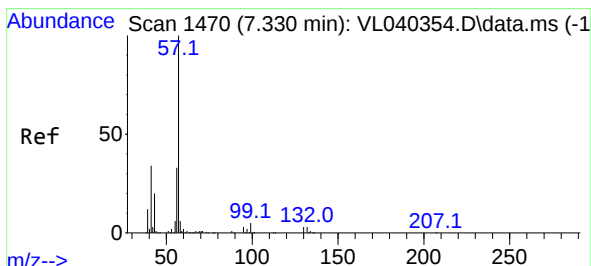
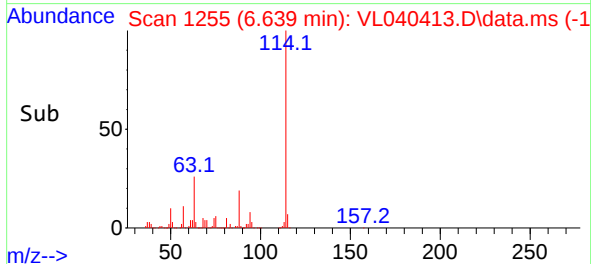
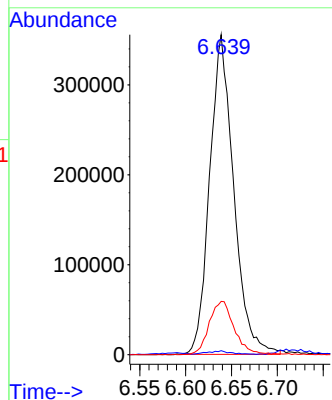
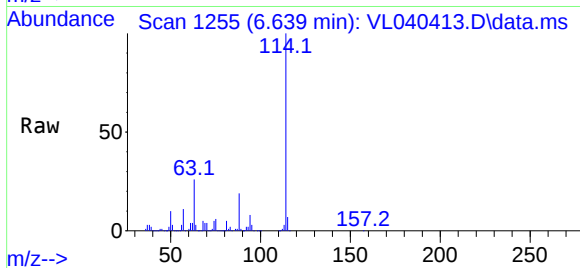
Tgt Ion: 63 Resp: 648101

Ion Ratio Lower Upper

63 100

41 0.8 59.6 89.4#

62 16.7 53.9 80.9#



#44

2,2,4-Trimethylpentane

Concen: 0.096 ppbv

RT: 7.314 min Scan# 1465

Delta R.T. -0.016 min

Lab File: VL040413.D

Acq: 12 May 2023 8:19

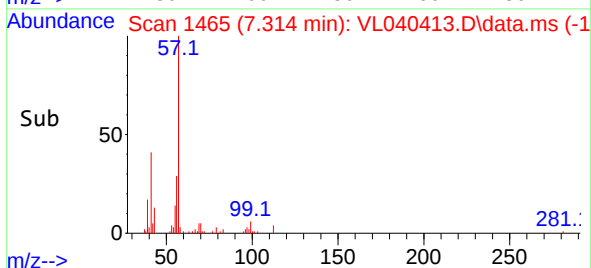
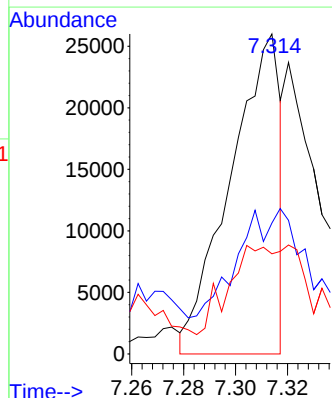
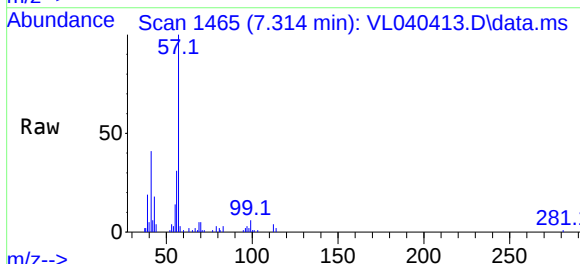
Tgt Ion: 57 Resp: 34618

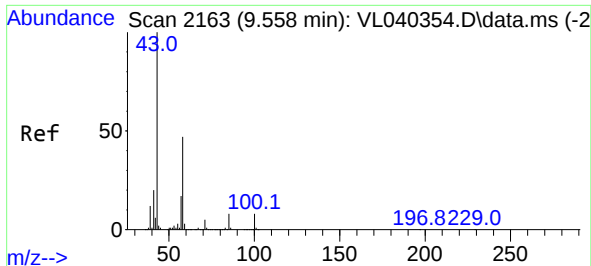
Ion Ratio Lower Upper

57 100

41 84.8 26.9 40.3#

56 0.0 25.1 37.7#

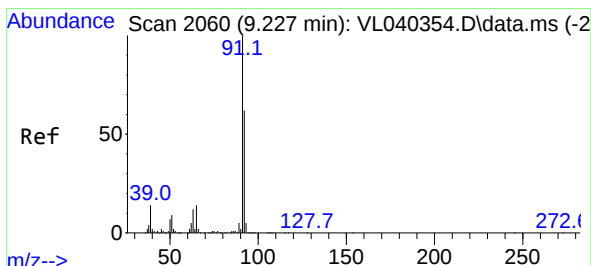
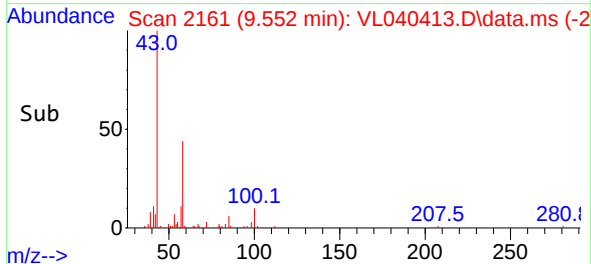
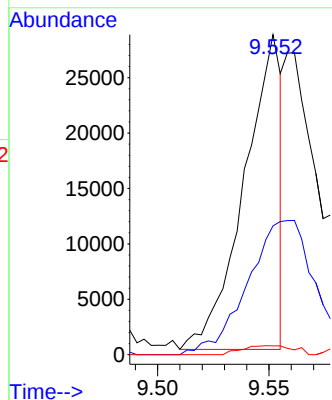
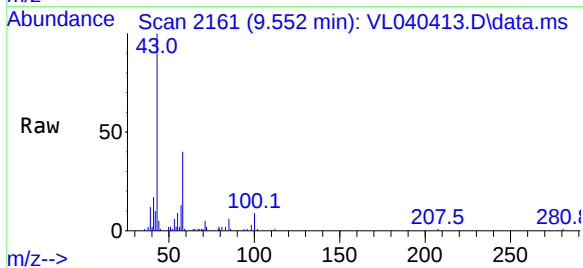




#51
2-Hexanone
Concen: 0.205 ppbv
RT: 9.552 min Scan# 2163
Delta R.T. -0.006 min
Lab File: VL040413.D
Acq: 12 May 2023 8:19

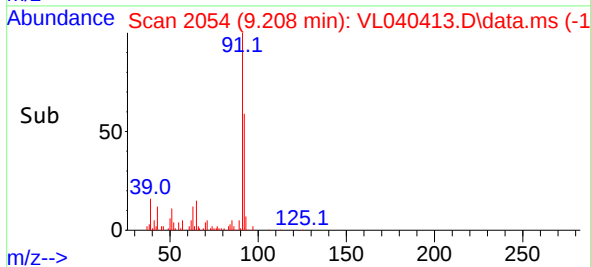
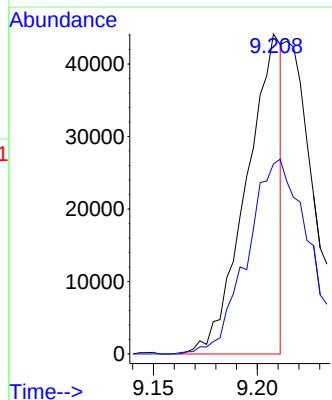
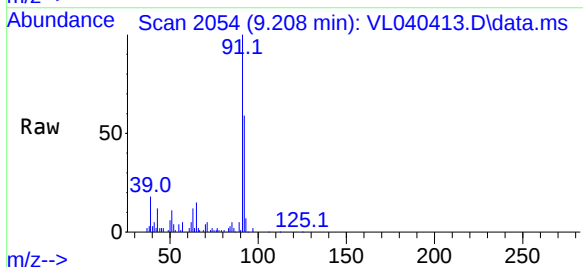
Instrument :
MSVOA_L
ClientSampleId :
SV-03-20230511

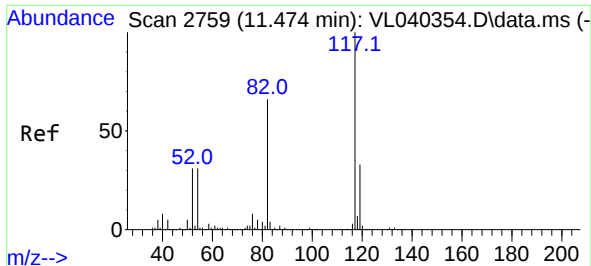
Tgt Ion: 43 Resp: 32747
Ion Ratio Lower Upper
43 100
58 0.0 38.3 57.5#
98 5.1 0.4 0.6#



#53
Toluene
Concen: 0.227 ppbv
RT: 9.208 min Scan# 2054
Delta R.T. -0.019 min
Lab File: VL040413.D
Acq: 12 May 2023 8:19

Tgt Ion: 91 Resp: 51995
Ion Ratio Lower Upper
91 100
92 0.0 48.9 73.3#

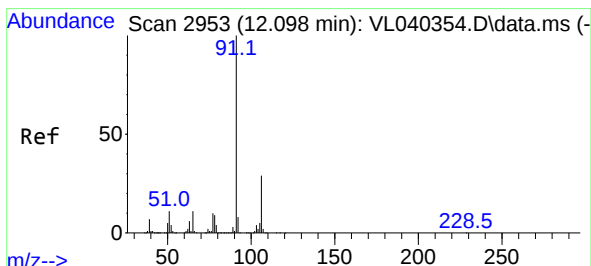
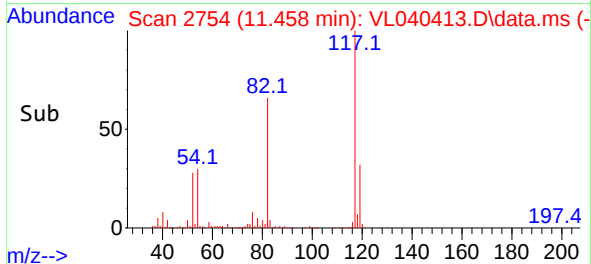
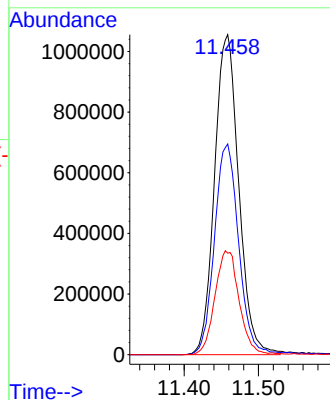
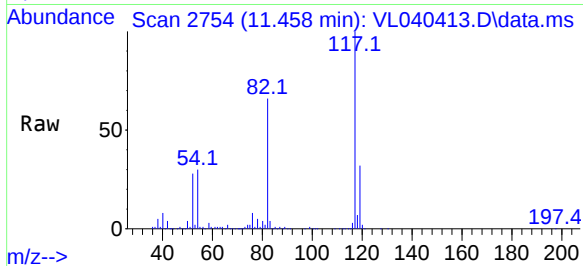




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.458 min Scan# 21
Delta R.T. -0.016 min
Lab File: VL040413.D
Acq: 12 May 2023 8:19

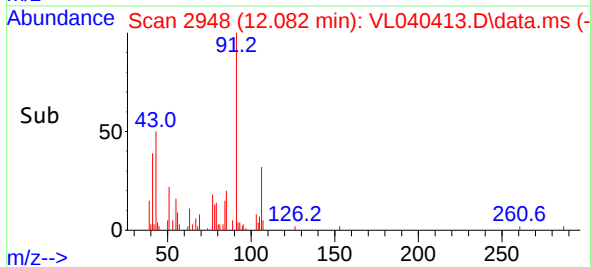
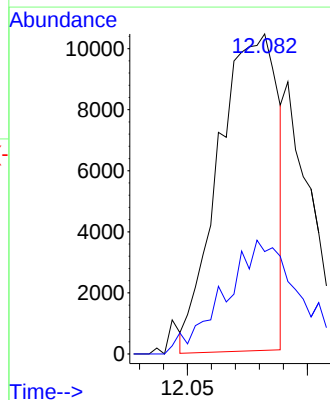
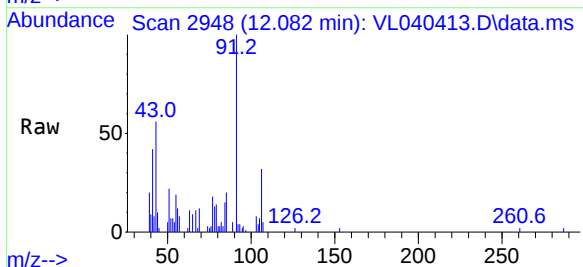
Instrument :
MSVOA_L
ClientSampleId :
SV-03-20230511

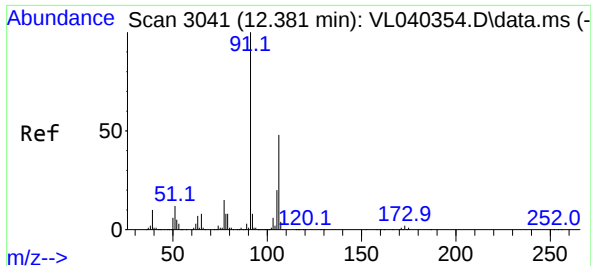
Tgt Ion:117 Resp: 2391998
Ion Ratio Lower Upper
117 100
82 66.6 52.5 78.7
119 32.8 24.3 36.5



#58
Ethyl Benzene
Concen: 0.060 ppbv
RT: 12.082 min Scan# 2948
Delta R.T. -0.016 min
Lab File: VL040413.D
Acq: 12 May 2023 8:19

Tgt Ion: 91 Resp: 17733
Ion Ratio Lower Upper
91 100
106 27.2 23.5 35.3





#59

m/p-Xylene

Concen: 0.070 ppbv

RT: 12.356 min Scan# 3041

Delta R.T. -0.025 min

Lab File: VL040413.D

Acq: 12 May 2023 8:19

Instrument :

MSVOA_L

ClientSampleId :

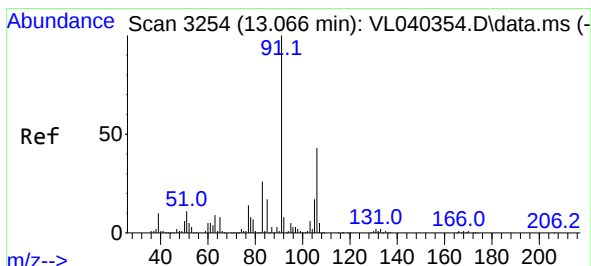
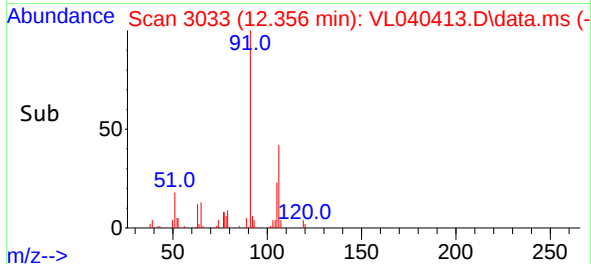
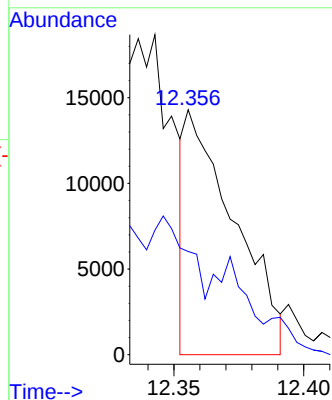
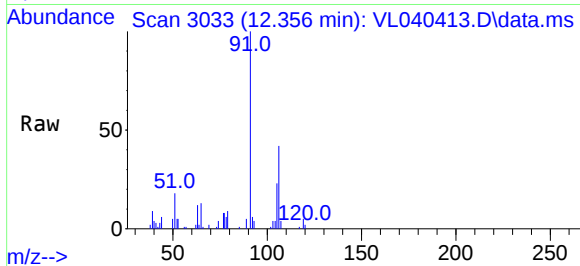
SV-03-20230511

Tgt Ion: 91 Resp: 18832

Ion Ratio Lower Upper

91 100

106 0.0 34.7 52.1#



#60

o-Xylene

Concen: 0.058 ppbv

RT: 13.050 min Scan# 3249

Delta R.T. -0.016 min

Lab File: VL040413.D

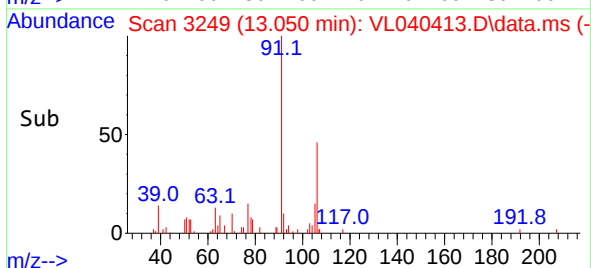
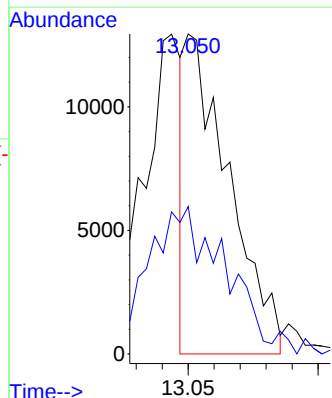
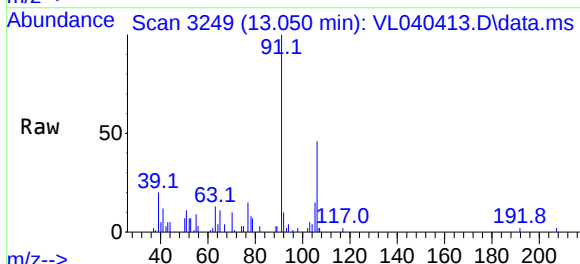
Acq: 12 May 2023 8:19

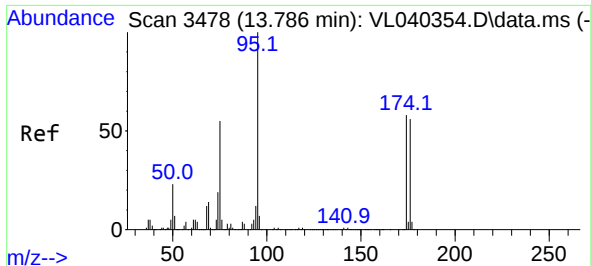
Tgt Ion: 91 Resp: 15099

Ion Ratio Lower Upper

91 100

106 87.5 21.9 65.8#

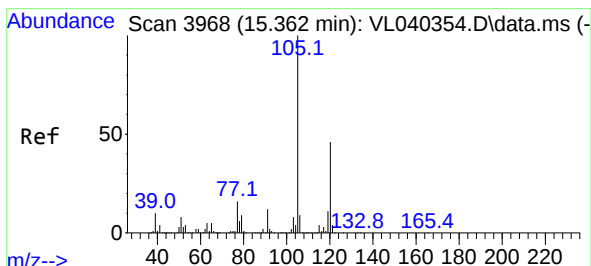
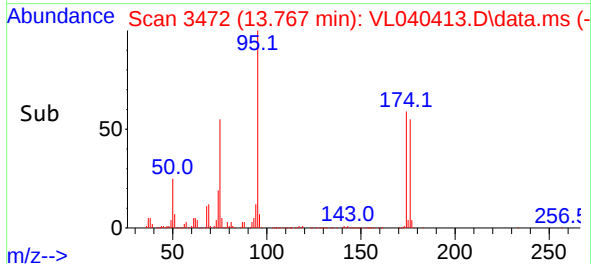
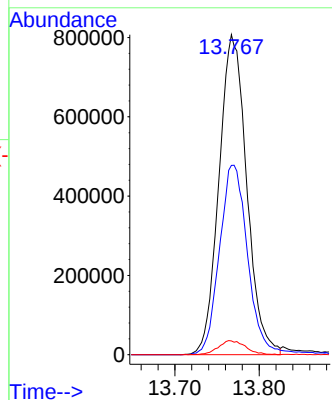
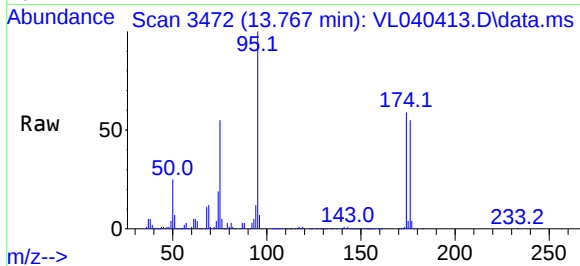




#68
1-Bromo-4-Fluorobenzene
Concen: 9.324 ppbv
RT: 13.767 min Scan# 3478
Delta R.T. -0.019 min
Lab File: VL040413.D
Acq: 12 May 2023 8:19

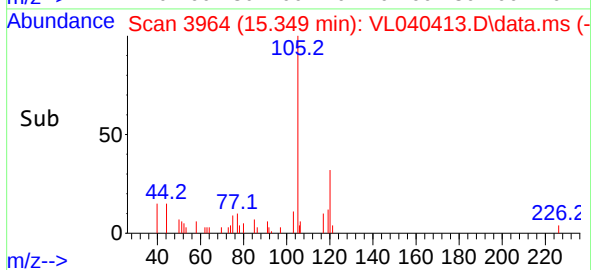
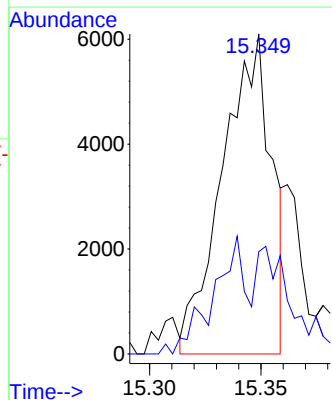
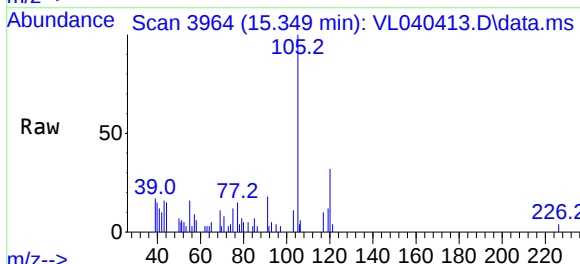
Instrument : MSVOA_1
ClientSampleId : SV-03-20230511

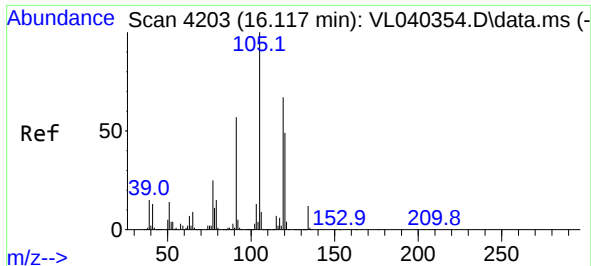
Tgt Ion: 95 Resp: 1844282
Ion Ratio Lower Upper
95 100
174 61.1 47.2 70.8
175 4.4 3.5 5.3



#73
1,3,5-Trimethylbenzene
Concen: 0.035 ppbv
RT: 15.349 min Scan# 3964
Delta R.T. -0.013 min
Lab File: VL040413.D
Acq: 12 May 2023 8:19

Tgt Ion: 105 Resp: 9283
Ion Ratio Lower Upper
105 100
120 28.3 36.9 55.3#

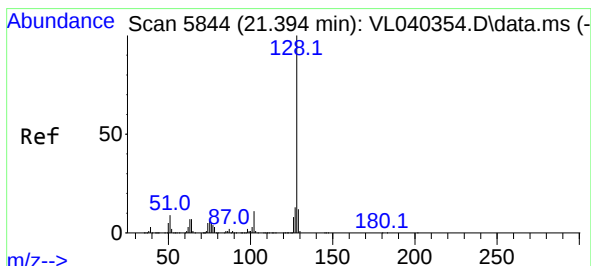
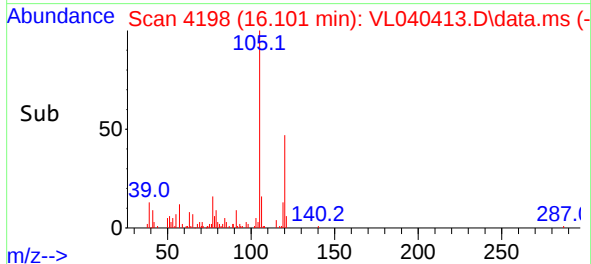
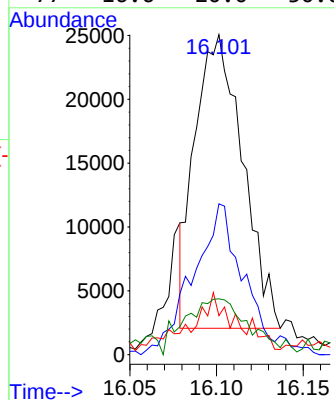
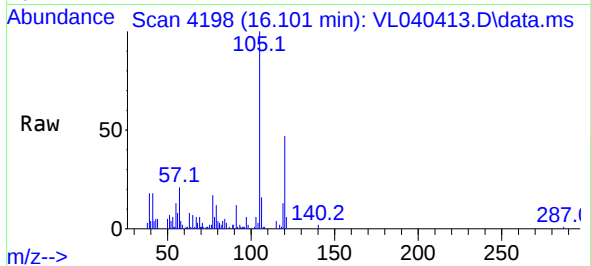




#74
1,2,4-Trimethylbenzene
Concen: 0.145 ppbv
RT: 16.101 min Scan# 4198
Delta R.T. -0.016 min
Lab File: VL040413.D
Acq: 12 May 2023 8:19

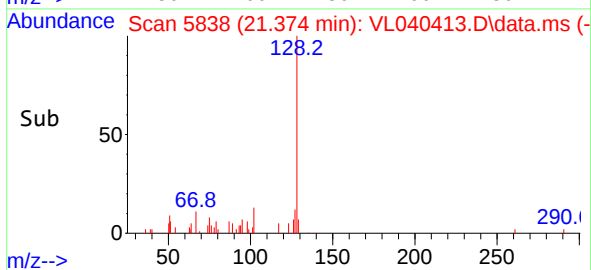
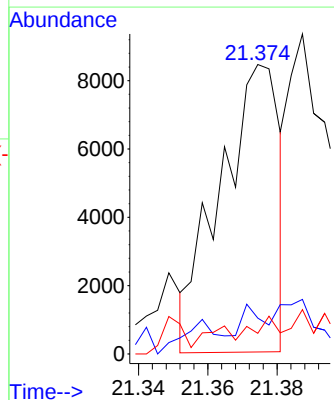
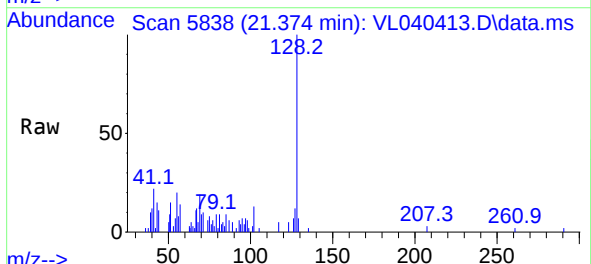
Instrument :
MSVOA_L
ClientSampleId :
SV-03-20230511

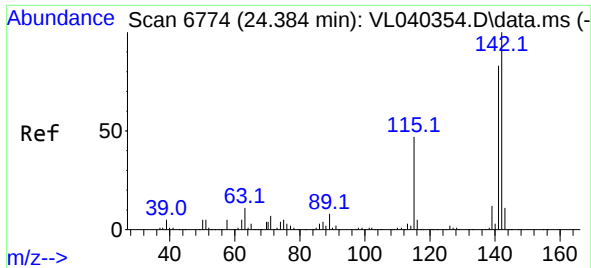
Tgt Ion:	105	Resp:	43907
Ion	Ratio	Lower	Upper
105	100		
120	45.0	38.9	58.3
91	11.5	46.0	69.0#
77	16.6	20.0	30.0#



#79
Naphthalene
Concen: 0.049 ppbv
RT: 21.374 min Scan# 5838
Delta R.T. -0.020 min
Lab File: VL040413.D
Acq: 12 May 2023 8:19

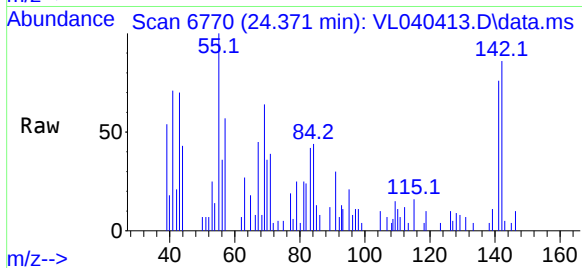
Tgt Ion:	128	Resp:	9953
Ion	Ratio	Lower	Upper
128	100		
127	8.7	10.0	15.0#
129	0.0	9.4	14.0#





#80
Naphthalene, 2-methyl-
Concen: 0.184 ppbv
RT: 24.371 min Scan# 61
Delta R.T. -0.013 min
Lab File: VL040413.D
Acq: 12 May 2023 8:19

Instrument :
MSVOA_L
ClientSampleId :
SV-03-20230511



Tgt Ion: 142 Resp: 11202
Ion Ratio Lower Upper
142 100
141 0.0 65.1 97.7#
115 20.6 36.5 54.7#

