

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110322\
 Data File : VL039826.D
 Acq On : 3 Nov 2022 15:15
 Operator : SY/AP
 Sample : N3986-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 E061-1100

Quant Time: Nov 04 08:44:16 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110222AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Nov 03 09:27:12 2022
 Response via : Initial Calibration

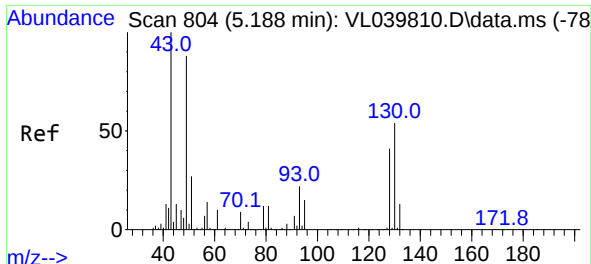
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.188	49	977091	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	2747241	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.449	117	2620319	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.757	95	2276229	11.606	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	116.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.742	85	2959899	17.943	ppbv	98
3) Chlorodifluoromethane	2.745	51	10712	0.092	ppbv	98
4) Chloromethane	2.825	50	9016	0.124	ppbv #	82
5) Vinyl Chloride	2.931	62	1139617	19.408	ppbv	97
7) Chloroethane	2.986	64	4593	0.209	ppbv #	43
8) Dichlorotetrafluoroethane	2.742	85	2959899	21.054	ppbv #	14
9) Propene	3.025	41	11599	0.191	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.069	101	2938754	30.245	ppbv	100
13) Ethanol	3.256	45	23178	5.404	ppbv #	31
15) Acetone	3.481	43	134310	1.129	ppbv	95
20) Methylene Chloride	3.938	84	399745	9.395	ppbv	96
23) Vinyl Acetate	4.623	43	1636	0.035	ppbv #	1
25) Ethyl Acetate	5.208	43	287431	1.173	ppbv #	76
26) Hexane	5.211	57	410022	3.754	ppbv #	39
29) Chloroform	5.269	83	4314122	28.089	ppbv	99
34) 2-Butanone	4.803	43	4017	0.035	ppbv #	29
36) Benzene	6.359	78	3391848	14.636	ppbv	98
39) 1,2-Dichloropropane	6.645	63	637175	7.057	ppbv #	26
42) Bromodichloromethane	7.237	83	3916781	22.056	ppbv	95
48) Dibromochloromethane	9.696	129	15555	0.100	ppbv	79
53) Toluene	9.208	91	6251117	23.513	ppbv	96
58) Ethyl Benzene	12.072	91	6398234	18.059	ppbv	98
59) m/p-Xylene	12.072	91	6398234	21.634	ppbv #	79
64) n-propylbenzene	15.339	120	4230412	38.691	ppbv #	1
72) 4-Ethyltoluene	15.339	105	8589279	27.224	ppbv #	81
73) 1,3,5-Trimethylbenzene	15.339	105	8589279	30.709	ppbv	98
74) 1,2,4-Trimethylbenzene	16.088	105	109568	0.369	ppbv #	64
75) 1,3-Dichlorobenzene	16.458	146	5637121	32.489	ppbv	99
76) 1,4-Dichlorobenzene	16.458	146	5637121	33.108	ppbv	99

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

Quant Time: Nov 04 08:44:16 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110222AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Nov 03 09:27:12 2022
Response via : Initial Calibration

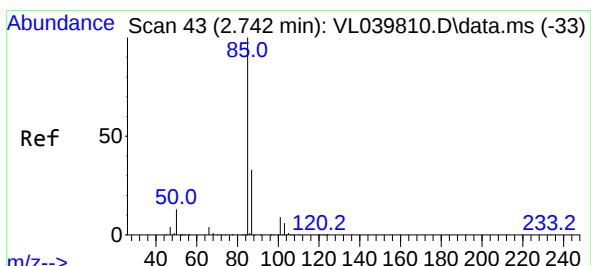
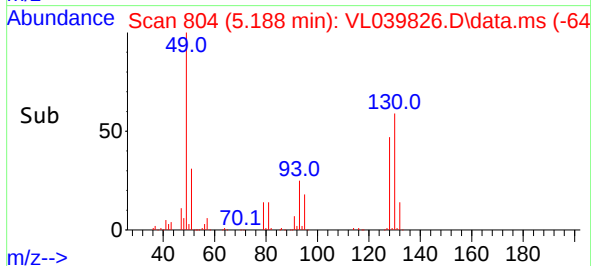
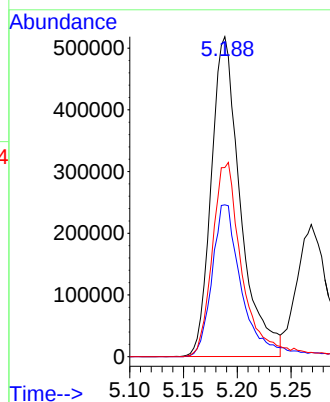
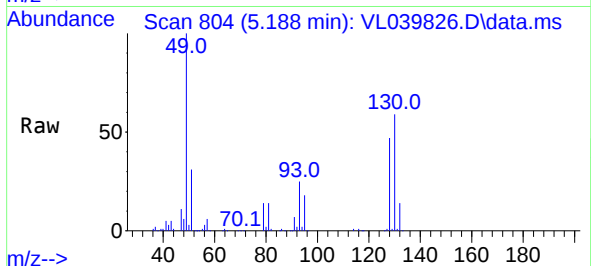




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.188 min Scan# 804
Delta R.T. 0.000 min
Lab File: VL039826.D
Acq: 3 Nov 2022 15:15

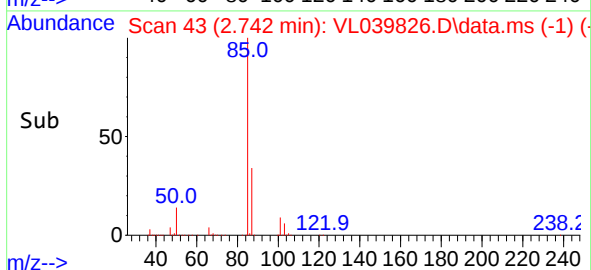
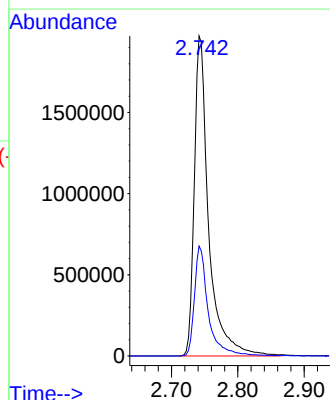
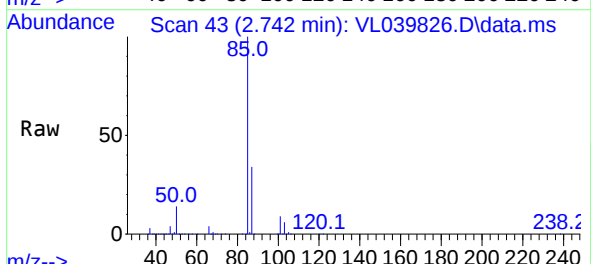
Instrument :
MSVOA_L
ClientSampleId :
E061-1100

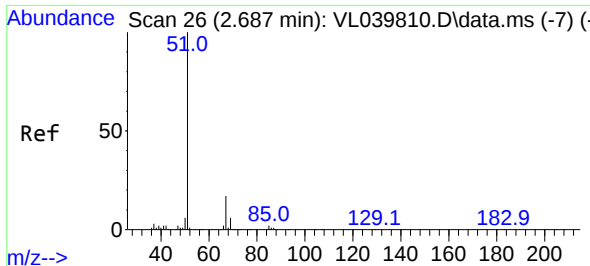
Tgt Ion: 49 Resp: 977091
Ion Ratio Lower Upper
49 100
128 50.4 24.6 73.6
130 64.3 31.1 93.2



#2
Dichlorodifluoromethane
Concen: 17.943 ppbv
RT: 2.742 min Scan# 43
Delta R.T. -0.000 min
Lab File: VL039826.D
Acq: 3 Nov 2022 15:15

Tgt Ion: 85 Resp: 2959899
Ion Ratio Lower Upper
85 100
87 34.3 26.4 39.6

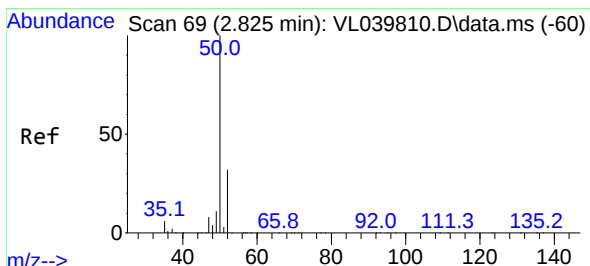
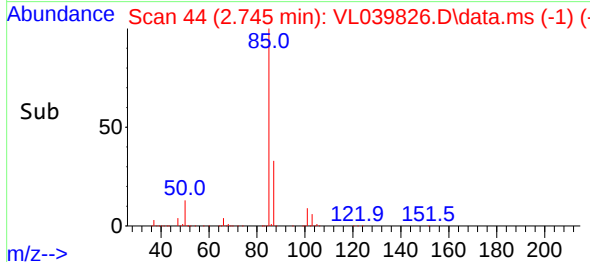
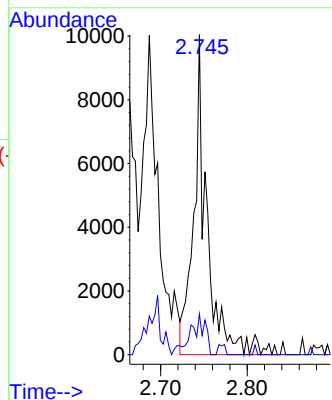
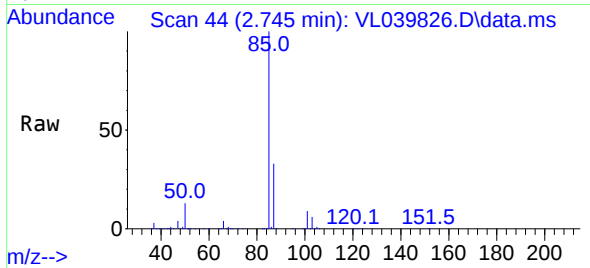




#3
Chlorodifluoromethane
Concen: 0.092 ppbv
RT: 2.745 min Scan# 44
Delta R.T. 0.058 min
Lab File: VL039826.D
Acq: 3 Nov 2022 15:15

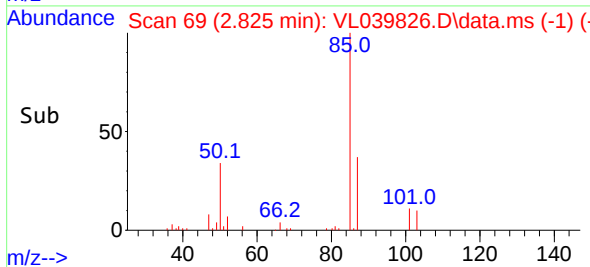
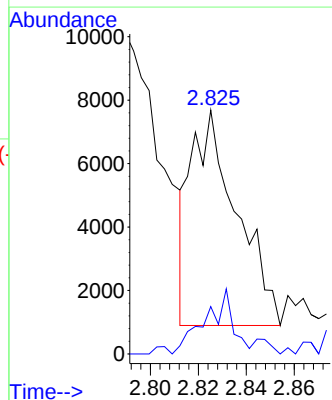
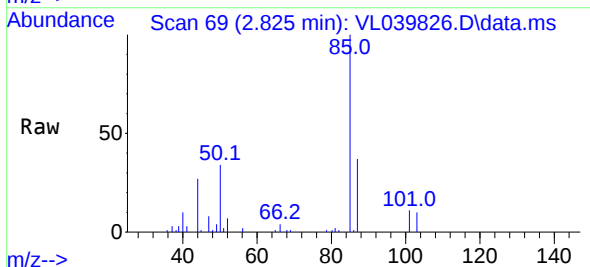
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MSVOA_L
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E061-1100

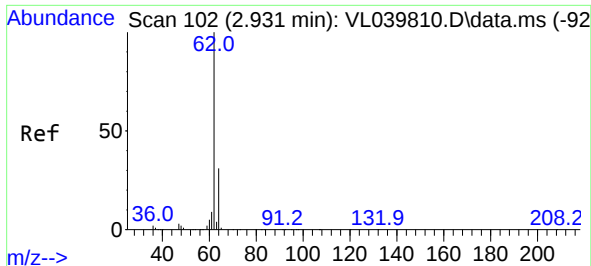
Tgt Ion: 51 Resp: 10712
Ion Ratio Lower Upper
51 100
67 15.6 13.2 19.8



#4
Chloromethane
Concen: 0.124 ppbv
RT: 2.825 min Scan# 69
Delta R.T. -0.000 min
Lab File: VL039826.D
Acq: 3 Nov 2022 15:15

Tgt Ion: 50 Resp: 9016
Ion Ratio Lower Upper
50 100
52 22.0 25.5 38.3#

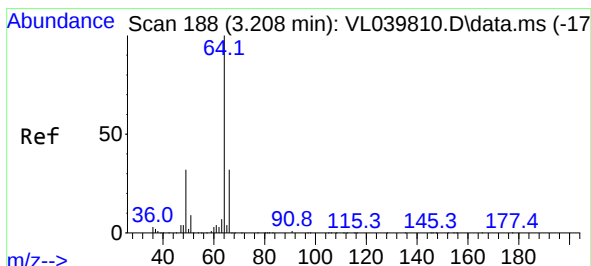
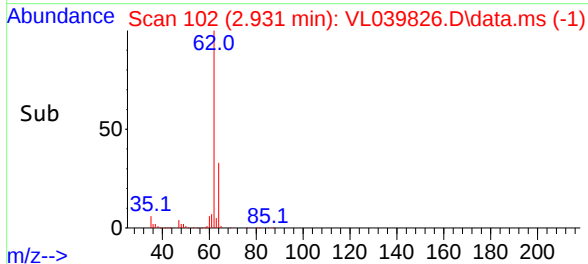
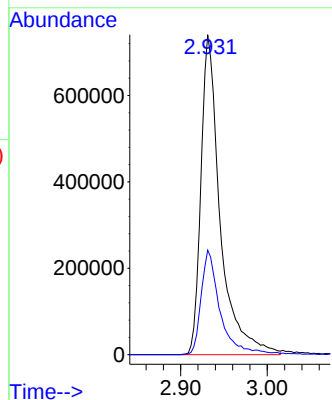
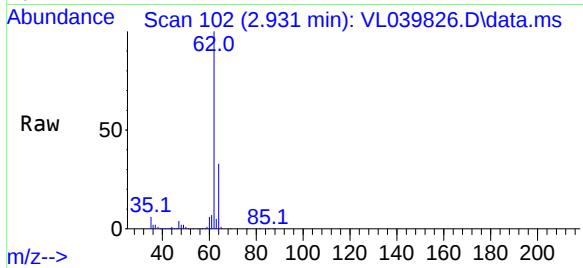




#5
 Vinyl Chloride
 Concen: 19.408 ppbv
 RT: 2.931 min Scan# 119
 Delta R.T. -0.000 min
 Lab File: VL039826.D
 Acq: 3 Nov 2022 15:15

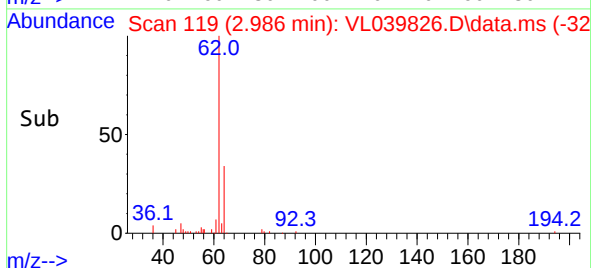
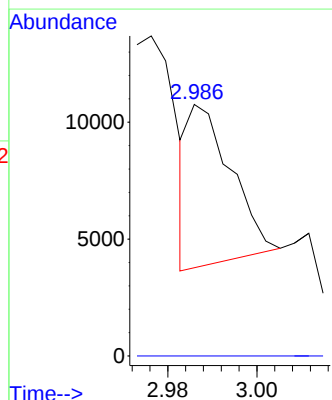
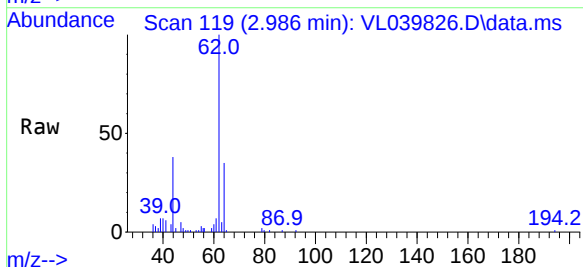
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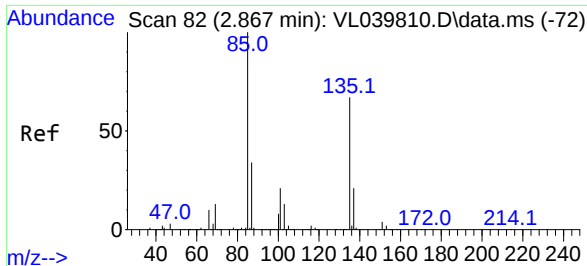
Tgt Ion: 62 Resp: 1139617
 Ion Ratio Lower Upper
 62 100
 64 32.6 25.0 37.4



#7
 Chloroethane
 Concen: 0.209 ppbv
 RT: 2.986 min Scan# 119
 Delta R.T. -0.222 min
 Lab File: VL039826.D
 Acq: 3 Nov 2022 15:15

Tgt Ion: 64 Resp: 4593
 Ion Ratio Lower Upper
 64 100
 66 0.0 25.5 38.3#

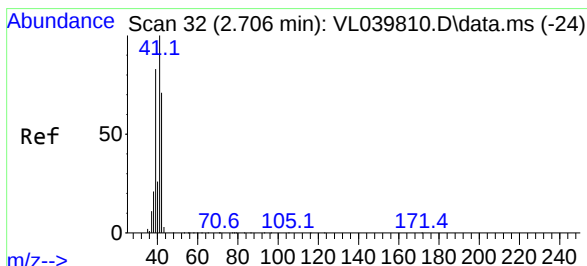
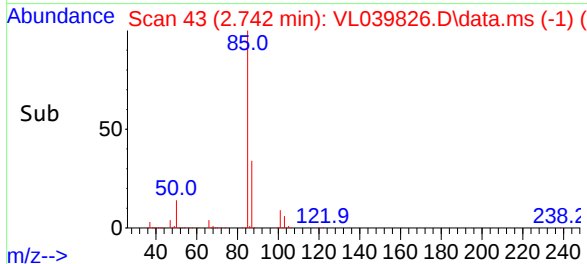
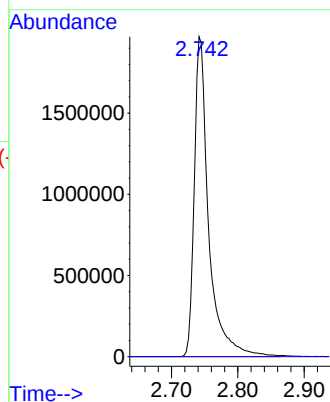
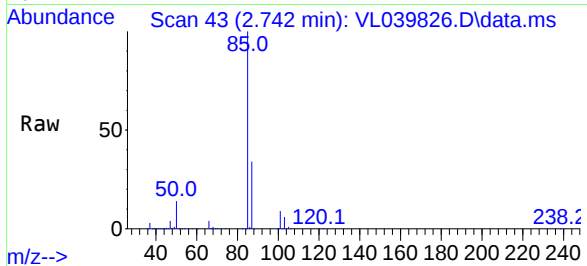




#8
Dichlorotetrafluoroethane
Concen: 21.054 ppbv
RT: 2.742 min Scan# 41
Delta R.T. -0.125 min
Lab File: VL039826.D
Acq: 3 Nov 2022 15:15

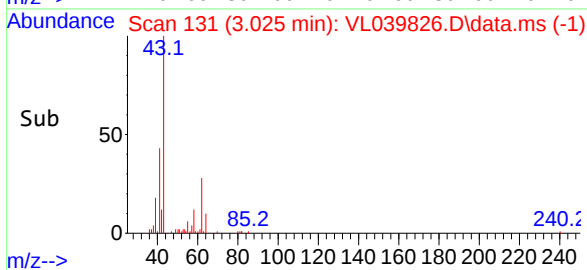
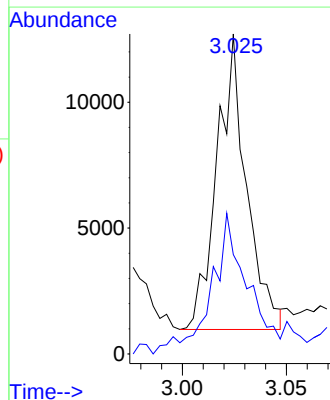
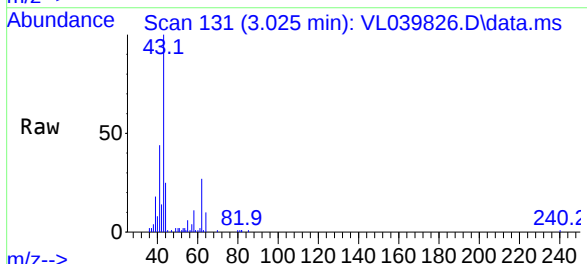
Instrument :
MSVOA_L
ClientSampleId :
E061-1100

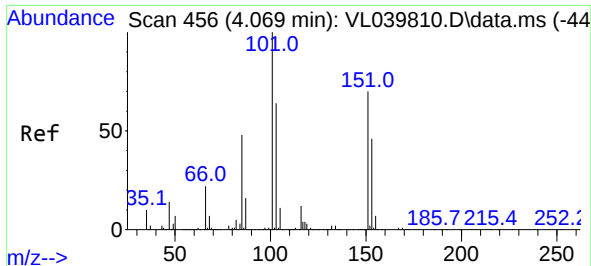
Tgt Ion: 85 Resp: 2959899
Ion Ratio Lower Upper
85 100
135 0.0 56.7 85.1#



#9
Propene
Concen: 0.191 ppbv
RT: 3.025 min Scan# 131
Delta R.T. 0.318 min
Lab File: VL039826.D
Acq: 3 Nov 2022 15:15

Tgt Ion: 41 Resp: 11599
Ion Ratio Lower Upper
41 100
42 71.5 56.3 84.5

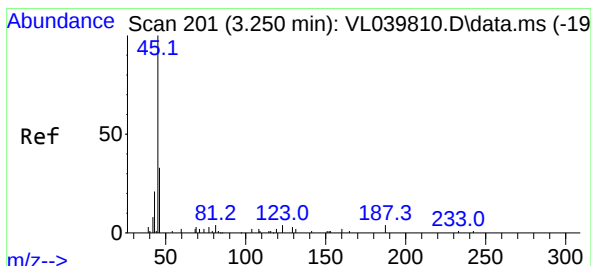
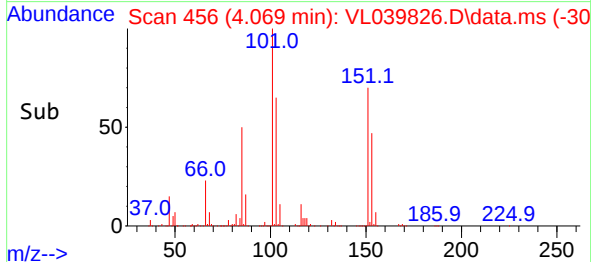
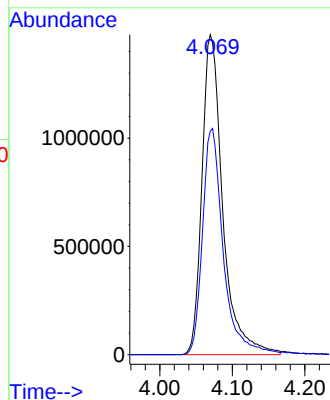
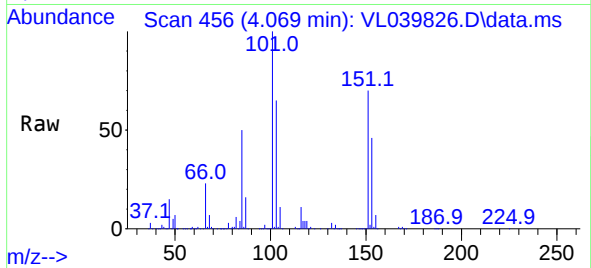




#12
1,1,2-Trichlorotrifluoroethane
Concen: 30.245 ppbv
RT: 4.069 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL039826.D
Acq: 3 Nov 2022 15:15

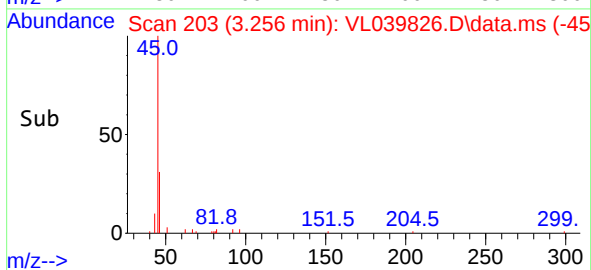
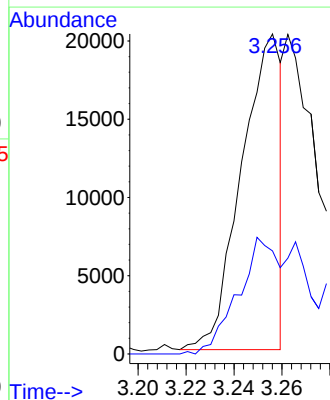
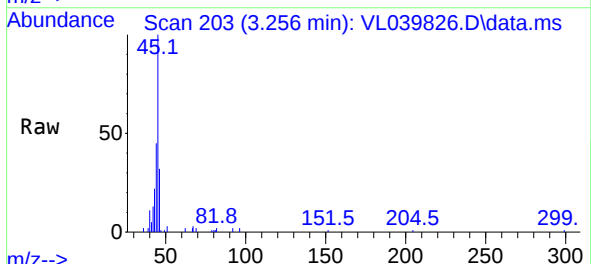
Instrument :
MSVOA_1
ClientSampleId :
E061-1100

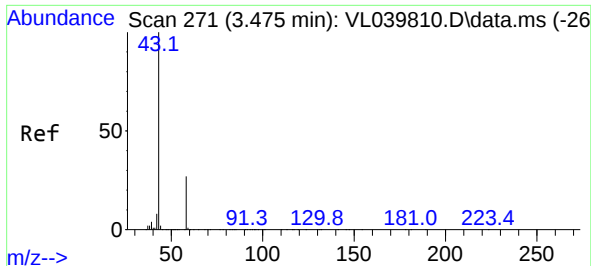
Tgt Ion:101 Resp: 2938754
Ion Ratio Lower Upper
101 100
151 71.4 57.2 85.8



#13
Ethanol
Concen: 5.404 ppbv
RT: 3.256 min Scan# 203
Delta R.T. 0.006 min
Lab File: VL039826.D
Acq: 3 Nov 2022 15:15

Tgt Ion: 45 Resp: 23178
Ion Ratio Lower Upper
45 100
46 84.2 16.5 65.9#

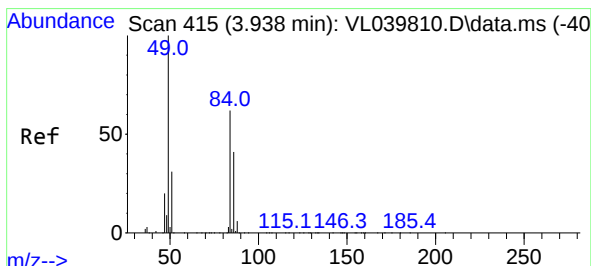
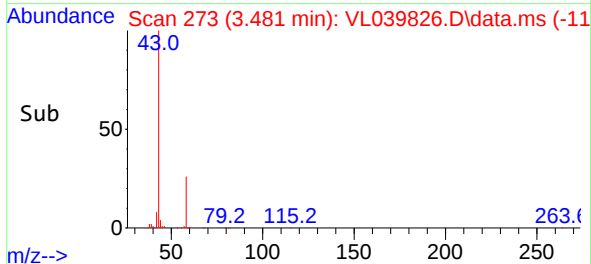
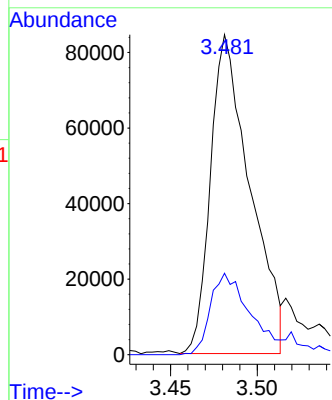
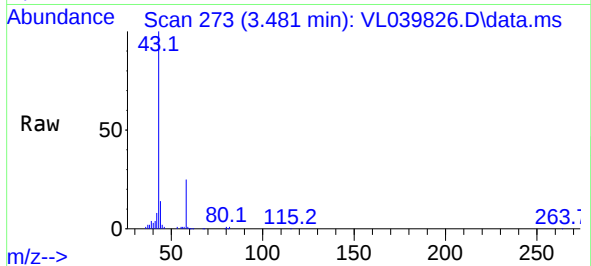




#15
Acetone
Concen: 1.129 ppbv
RT: 3.481 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL039826.D
Acq: 3 Nov 2022 15:15

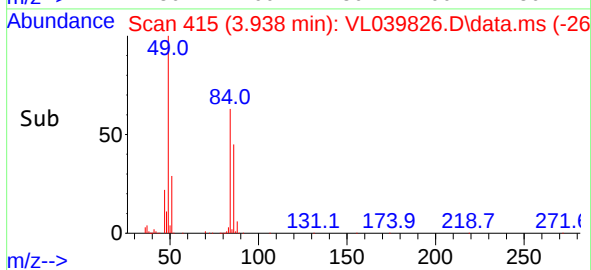
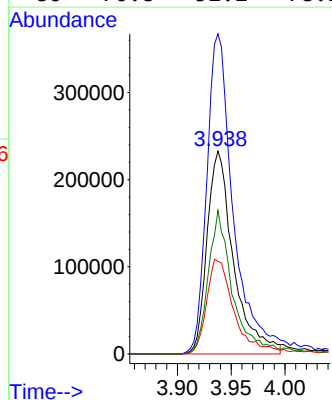
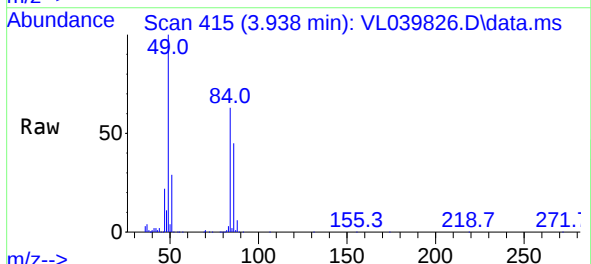
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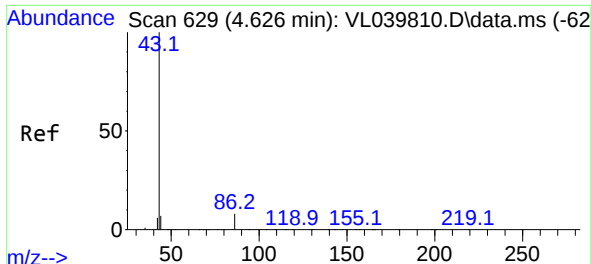
Tgt Ion: 43 Resp: 134310
Ion Ratio Lower Upper
43 100
58 31.6 23.2 34.8



#20
Methylene Chloride
Concen: 9.395 ppbv
RT: 3.938 min Scan# 415
Delta R.T. -0.000 min
Lab File: VL039826.D
Acq: 3 Nov 2022 15:15

Tgt Ion: 84 Resp: 399745
Ion Ratio Lower Upper
84 100
49 157.7 128.6 192.8
51 45.7 40.2 60.4
86 70.8 52.2 78.2



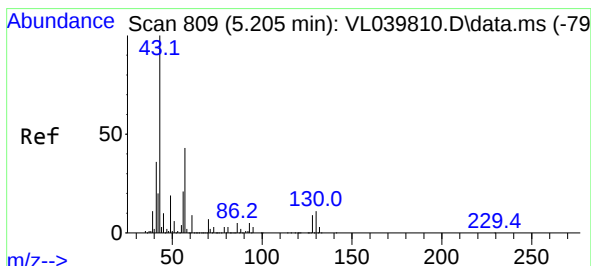
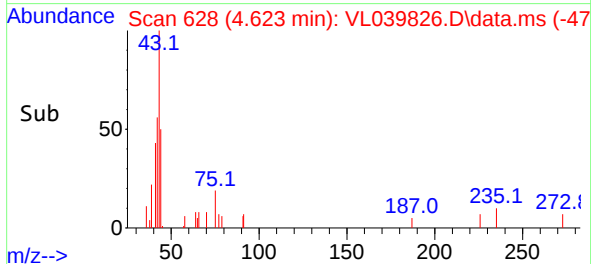
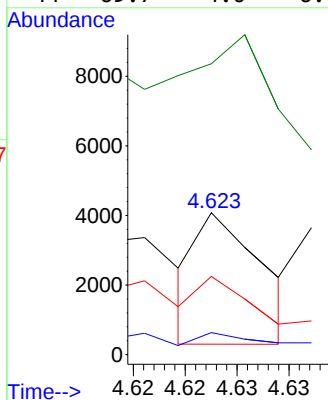
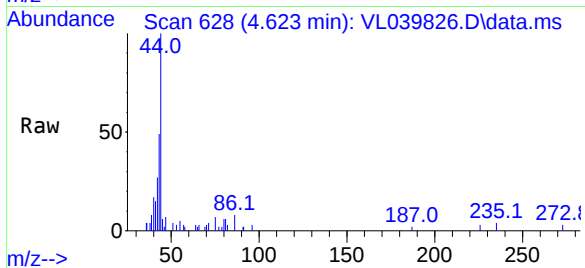


#23
 Vinyl Acetate
 Concen: 0.035 ppbv
 RT: 4.623 min Scan# 61
 Delta R.T. -0.003 min
 Lab File: VL039826.D
 Acq: 3 Nov 2022 15:15

Instrument :
 MSVOA_1
 ClientSampleId :
 E061-1100

Tgt Ion: 43 Resp: 1636

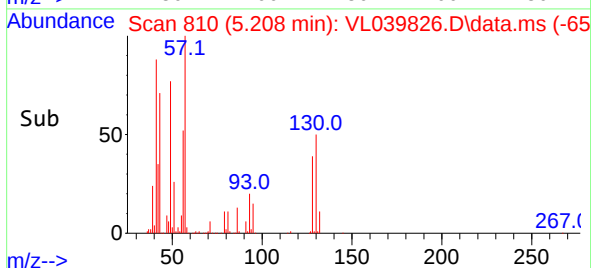
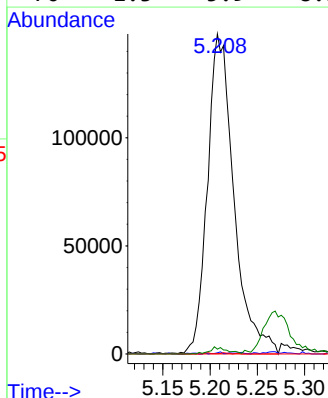
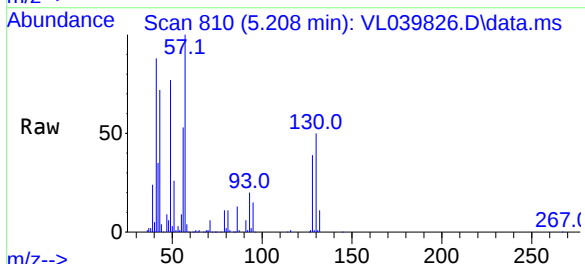
Ion	Ratio	Lower	Upper
43	100		
86	20.0	5.0	7.4#
42	73.6	6.8	10.2#
44	69.7	4.0	6.0#

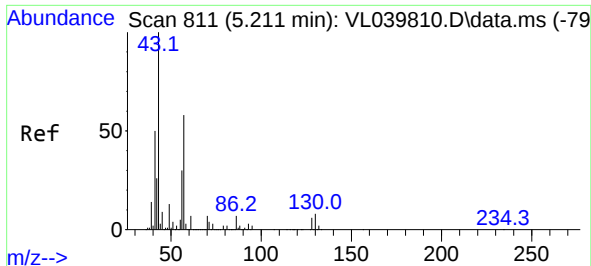


#25
 Ethyl Acetate
 Concen: 1.173 ppbv
 RT: 5.208 min Scan# 810
 Delta R.T. 0.003 min
 Lab File: VL039826.D
 Acq: 3 Nov 2022 15:15

Tgt Ion: 43 Resp: 287431

Ion	Ratio	Lower	Upper
43	100		
45	0.2	8.2	12.2#
61	0.2	8.1	12.1#
70	1.3	5.9	8.9#

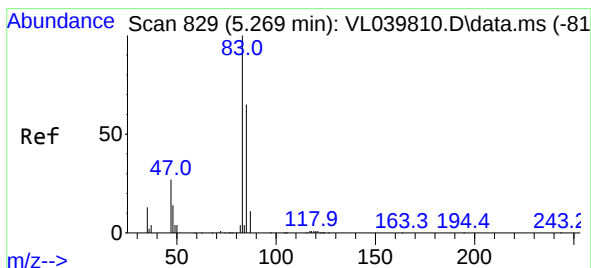
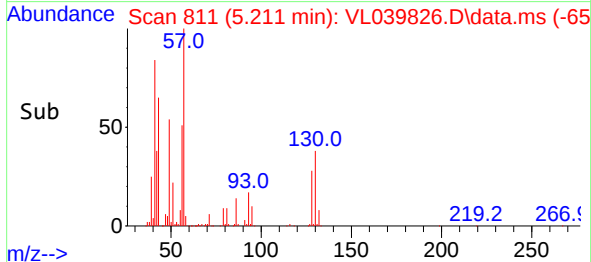
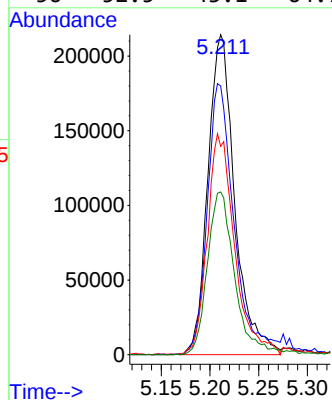
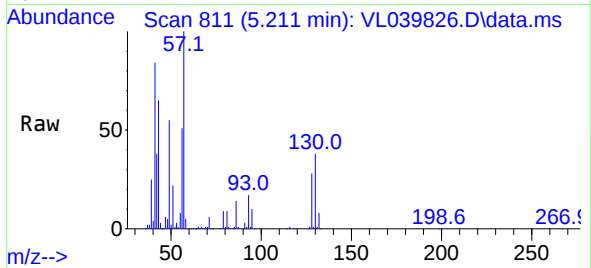




#26
Hexane
Concen: 3.754 ppbv
RT: 5.211 min Scan# 811
Delta R.T. -0.000 min
Lab File: VL039826.D
Acq: 3 Nov 2022 15:15

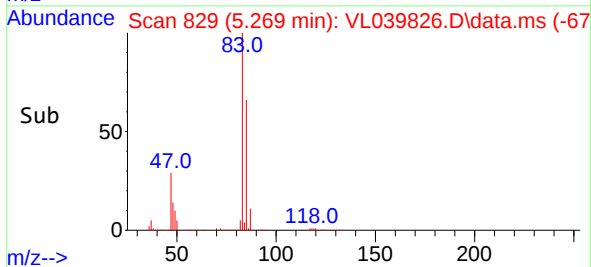
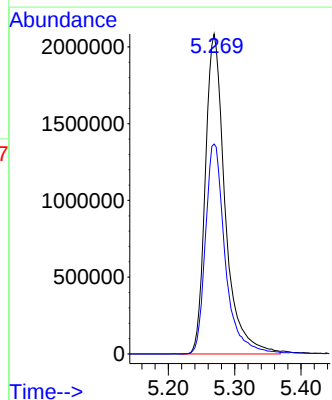
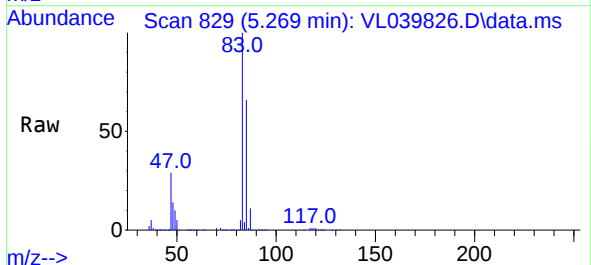
Instrument :
MSVOA_L
ClientSampleId :
E061-1100

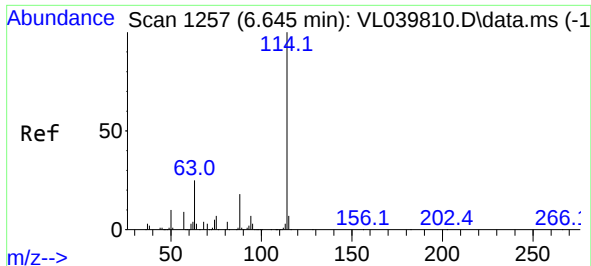
Tgt Ion: 57 Resp: 410022
Ion Ratio Lower Upper
57 100
41 89.5 73.7 110.5
43 72.6 189.8 284.8#
56 52.5 43.1 64.7



#29
Chloroform
Concen: 28.089 ppbv
RT: 5.269 min Scan# 829
Delta R.T. -0.000 min
Lab File: VL039826.D
Acq: 3 Nov 2022 15:15

Tgt Ion: 83 Resp: 4314122
Ion Ratio Lower Upper
83 100
85 65.6 51.6 77.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.645 min Scan# 1

Delta R.T. -0.000 min

Lab File: VL039826.D

Acq: 3 Nov 2022 15:15

Instrument :

MSVOA_L

ClientSampleId :

E061-1100

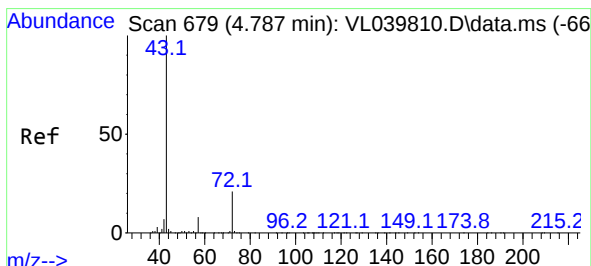
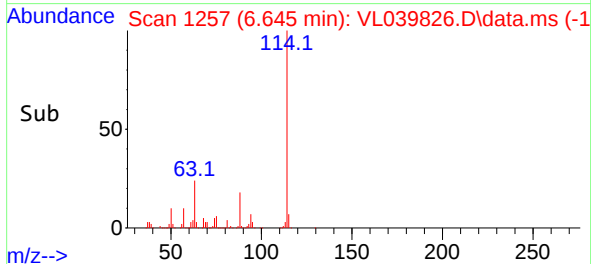
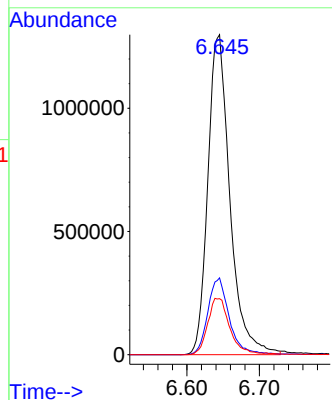
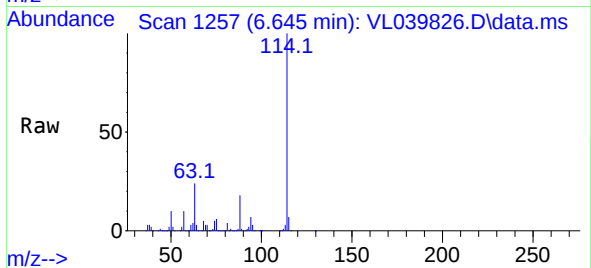
Tgt Ion:114 Resp: 2747241

Ion Ratio Lower Upper

114 100

63 23.6 19.8 29.6

88 18.0 14.4 21.6



#34

2-Butanone

Concen: 0.035 ppbv

RT: 4.803 min Scan# 684

Delta R.T. 0.016 min

Lab File: VL039826.D

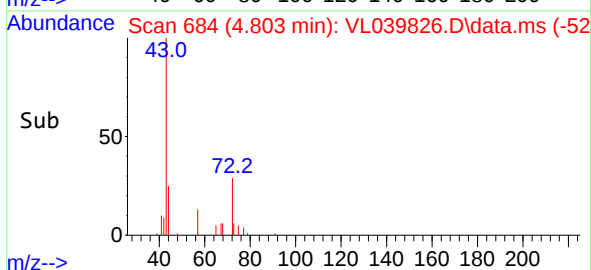
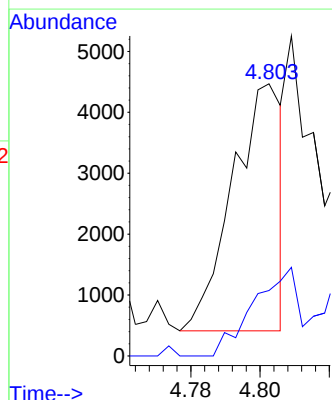
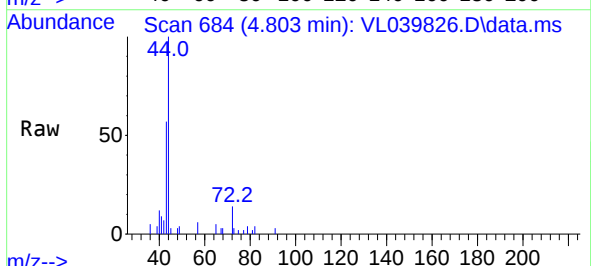
Acq: 3 Nov 2022 15:15

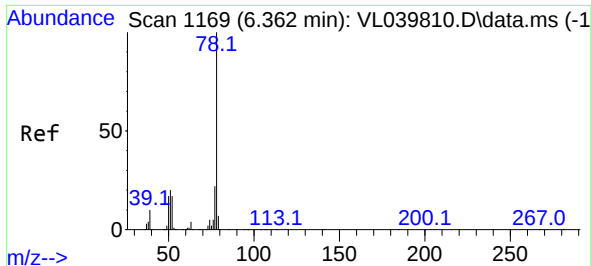
Tgt Ion: 43 Resp: 4017

Ion Ratio Lower Upper

43 100

72 55.7 17.5 26.3#

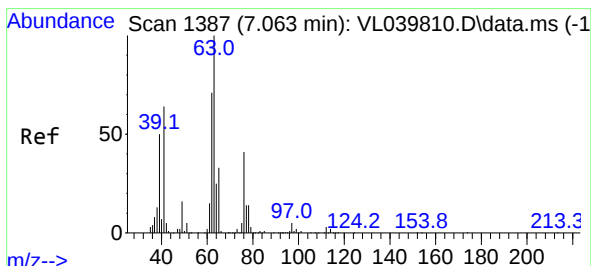
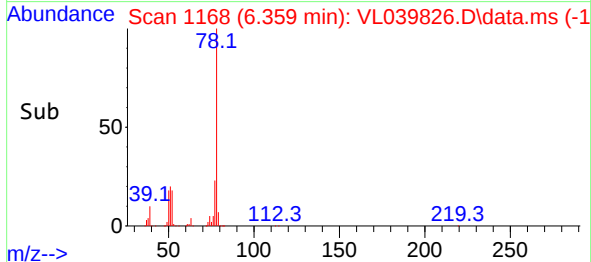
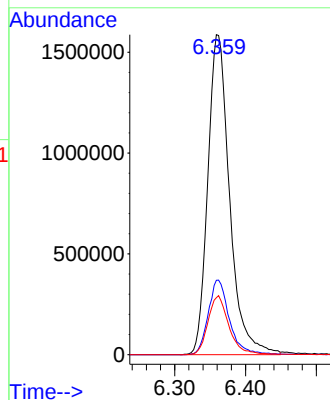
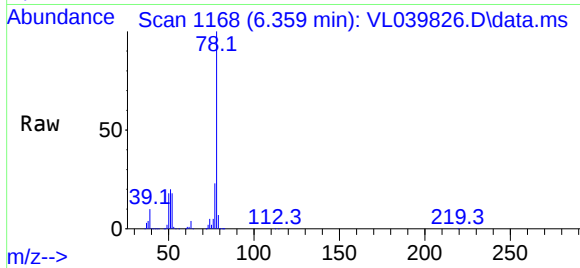




#36
Benzene
Concen: 14.636 ppbv
RT: 6.359 min Scan# 1169
Delta R.T. -0.003 min
Lab File: VL039826.D
Acq: 3 Nov 2022 15:15

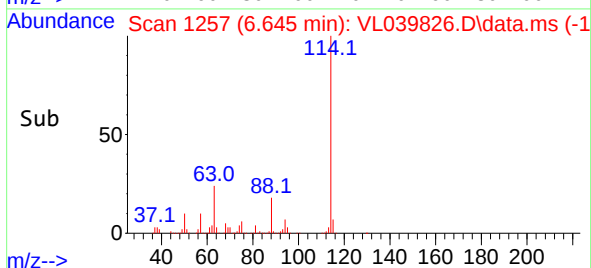
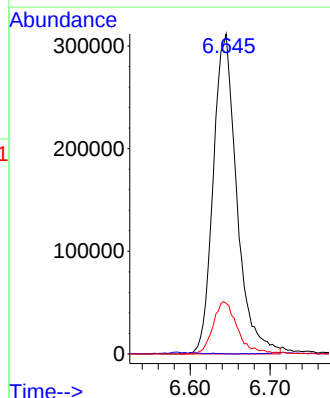
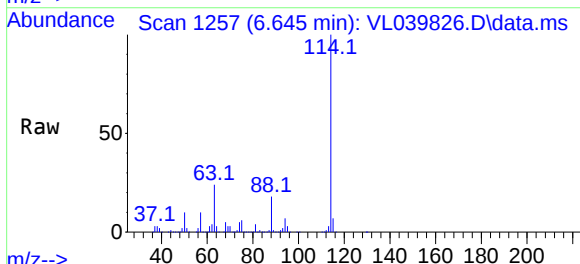
Instrument :
MSVOA_L
ClientSampleId :
E061-1100

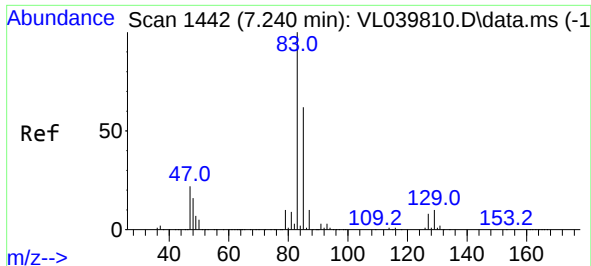
Tgt Ion: 78 Resp: 3391848
Ion Ratio Lower Upper
78 100
77 23.3 17.4 26.2
50 17.8 13.9 20.9



#39
1,2-Dichloropropane
Concen: 7.057 ppbv
RT: 6.645 min Scan# 1257
Delta R.T. -0.418 min
Lab File: VL039826.D
Acq: 3 Nov 2022 15:15

Tgt Ion: 63 Resp: 637175
Ion Ratio Lower Upper
63 100
41 0.0 51.0 76.4#
62 15.9 56.6 85.0#

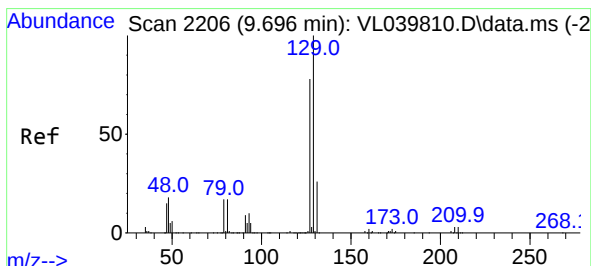
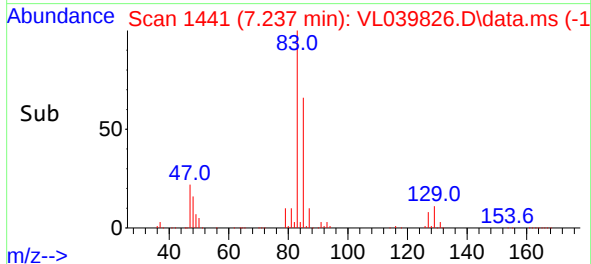
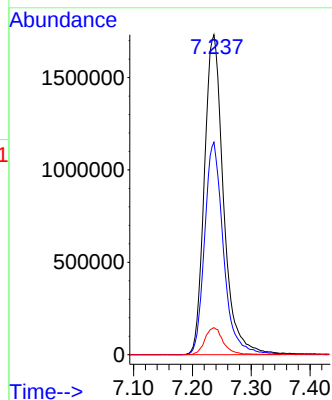
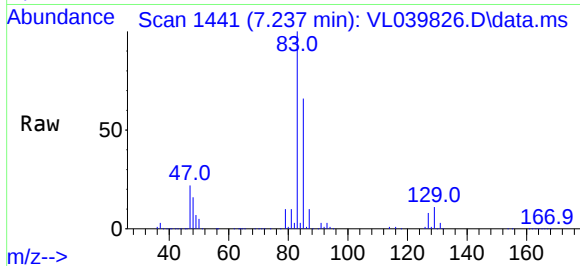




#42
Bromodichloromethane
Concen: 22.056 ppbv
RT: 7.237 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL039826.D
Acq: 3 Nov 2022 15:15

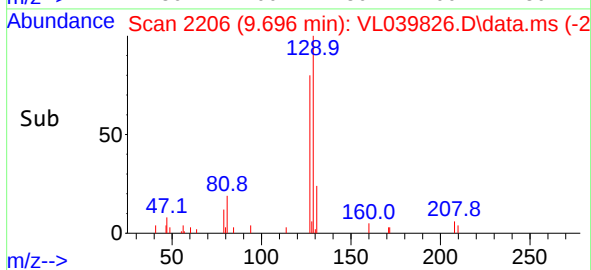
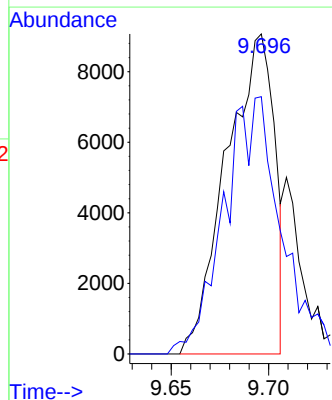
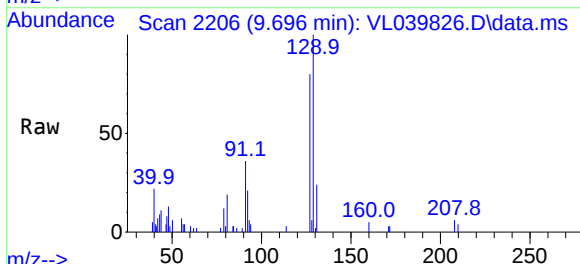
Instrument :
MSVOA_L
ClientSampleId :
E061-1100

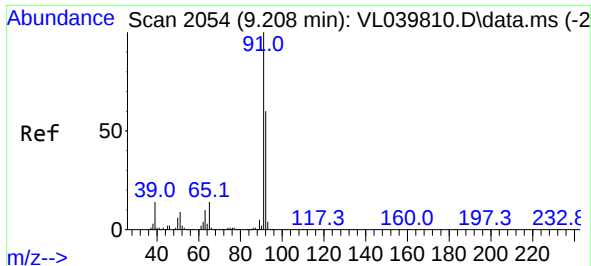
Tgt Ion: 83 Resp: 3916781
Ion Ratio Lower Upper
83 100
85 66.4 49.9 74.9
127 8.5 6.4 9.6



#48
Dibromochloromethane
Concen: 0.100 ppbv
RT: 9.696 min Scan# 2206
Delta R.T. -0.000 min
Lab File: VL039826.D
Acq: 3 Nov 2022 15:15

Tgt Ion: 129 Resp: 15555
Ion Ratio Lower Upper
129 100
127 96.9 39.4 118.1

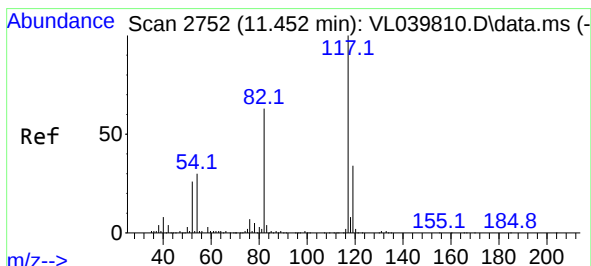
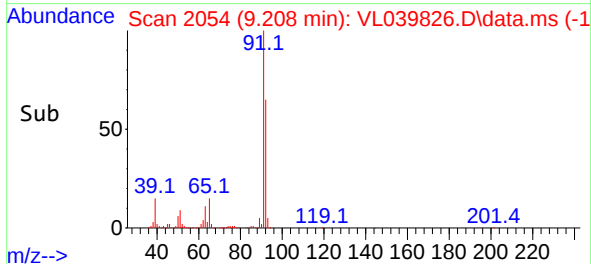
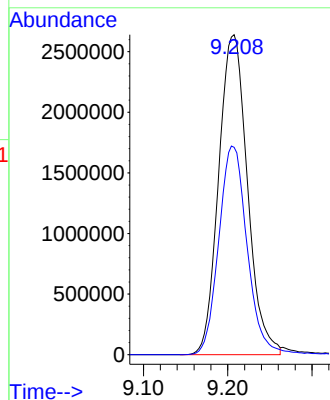
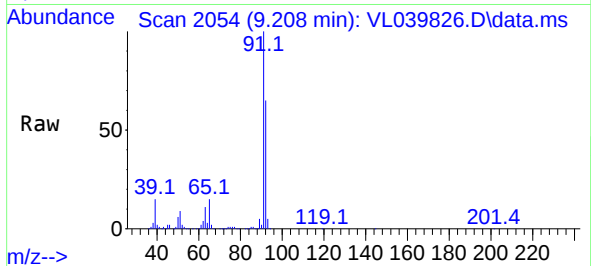




#53
Toluene
Concen: 23.513 ppbv
RT: 9.208 min Scan# 2054
Delta R.T. -0.000 min
Lab File: VL039826.D
Acq: 3 Nov 2022 15:15

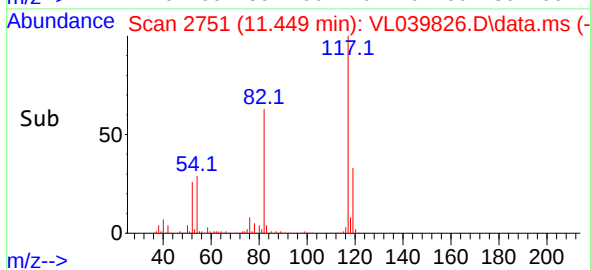
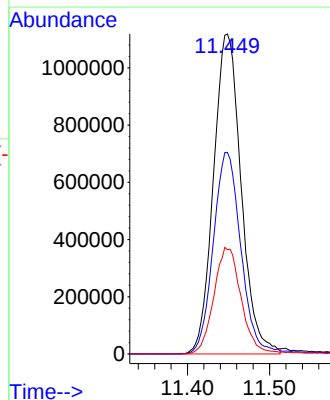
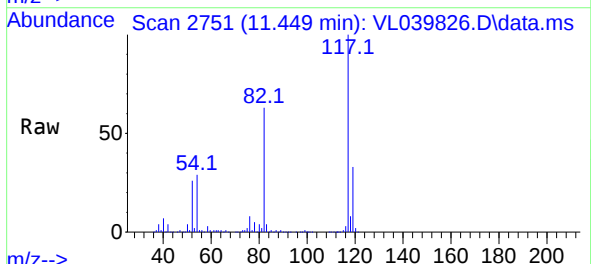
Instrument : MSVOA_1
ClientSampleId : E061-1100

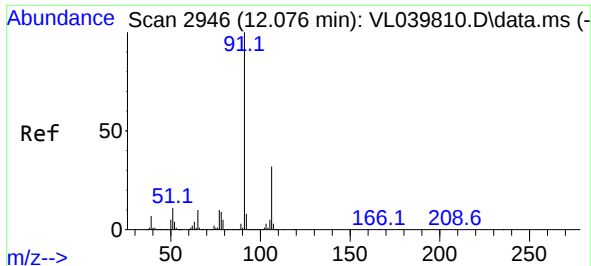
Tgt Ion: 91 Resp: 6251117
Ion Ratio Lower Upper
91 100
92 64.9 49.6 74.4



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.449 min Scan# 2751
Delta R.T. -0.003 min
Lab File: VL039826.D
Acq: 3 Nov 2022 15:15

Tgt Ion: 117 Resp: 2620319
Ion Ratio Lower Upper
117 100
82 63.7 51.0 76.6
119 33.6 24.7 37.1

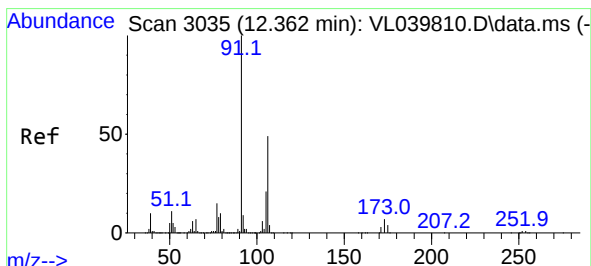
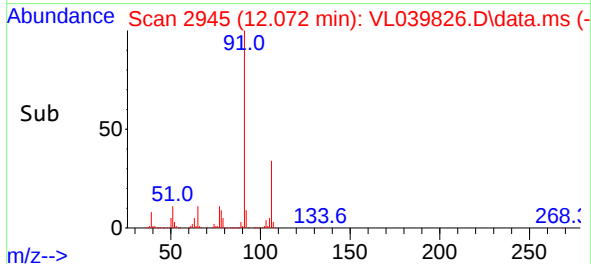
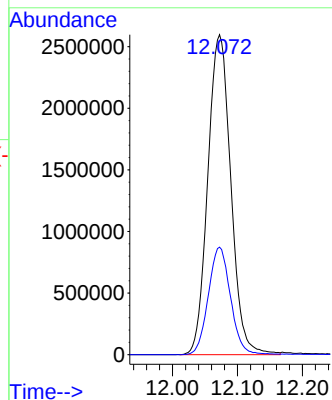
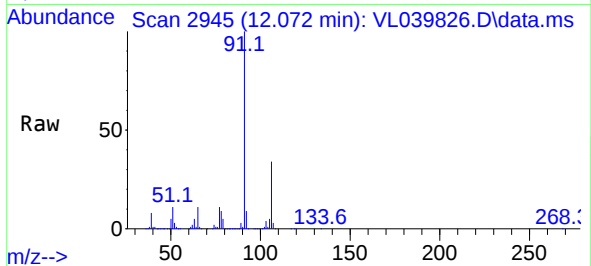




#58
Ethyl Benzene
Concen: 18.059 ppbv
RT: 12.072 min Scan# 2945
Delta R.T. -0.003 min
Lab File: VL039826.D
Acq: 3 Nov 2022 15:15

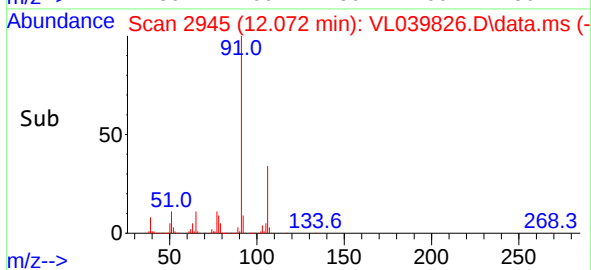
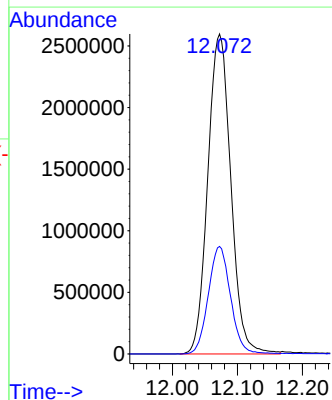
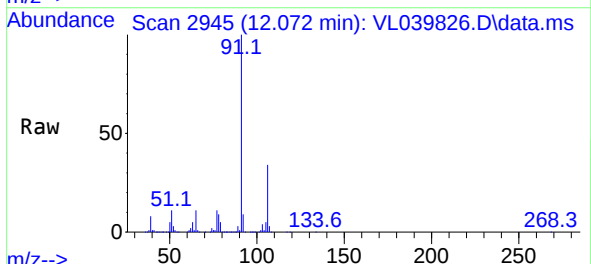
Instrument :
MSVOA_L
ClientSampleId :
E061-1100

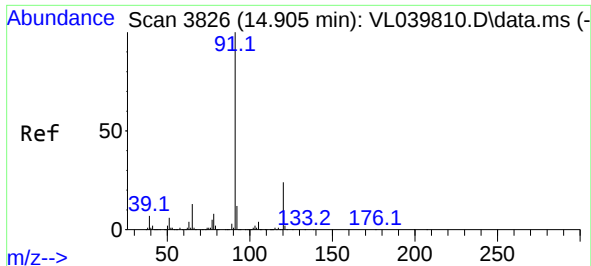
Tgt Ion: 91 Resp: 6398234
Ion Ratio Lower Upper
91 100
106 33.6 25.9 38.9



#59
m/p-Xylene
Concen: 21.634 ppbv
RT: 12.072 min Scan# 2945
Delta R.T. -0.289 min
Lab File: VL039826.D
Acq: 3 Nov 2022 15:15

Tgt Ion: 91 Resp: 6398234
Ion Ratio Lower Upper
91 100
106 32.7 37.6 56.4#

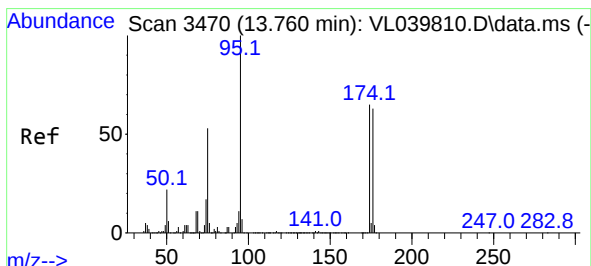
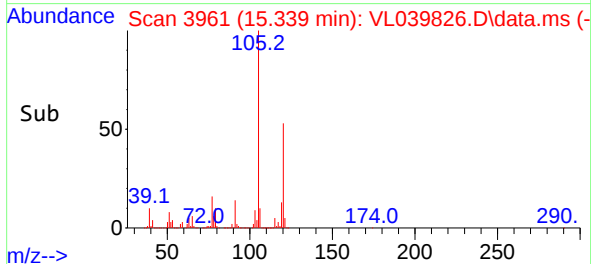
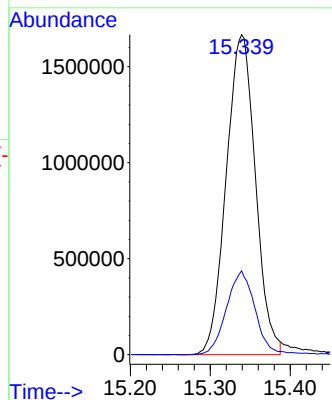
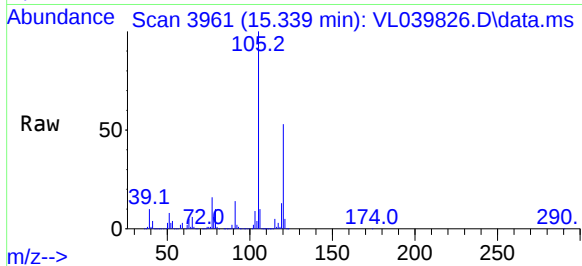




#64
n-propylbenzene
Concen: 38.691 ppbv
RT: 15.339 min Scan# 3961
Delta R.T. 0.434 min
Lab File: VL039826.D
Acq: 3 Nov 2022 15:15

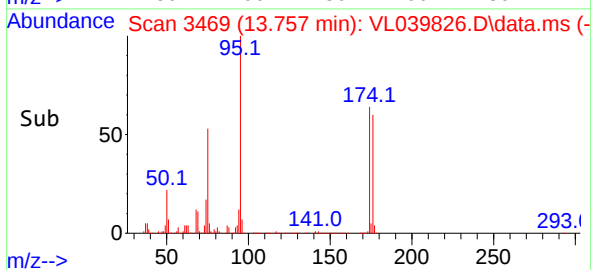
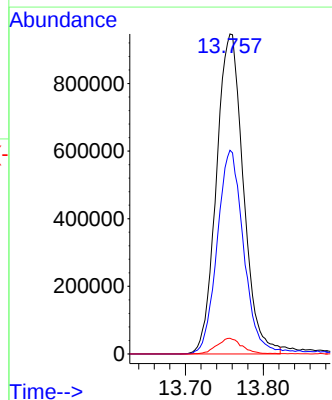
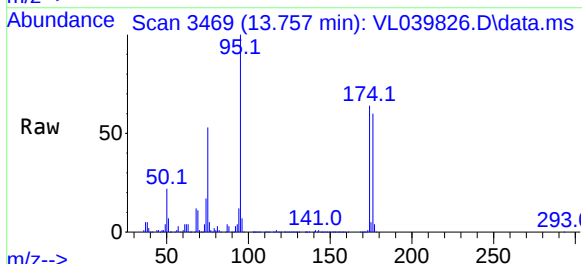
Instrument :
MSVOA_L
ClientSampleId :
E061-1100

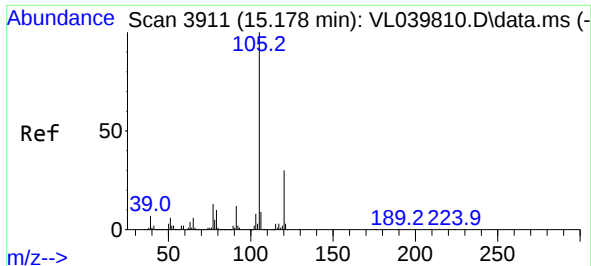
Tgt Ion:120 Resp: 4230412
Ion Ratio Lower Upper
120 100
91 0.0 354.9 532.3#



#68
1-Bromo-4-Fluorobenzene
Concen: 11.606 ppbv
RT: 13.757 min Scan# 3469
Delta R.T. -0.003 min
Lab File: VL039826.D
Acq: 3 Nov 2022 15:15

Tgt Ion: 95 Resp: 2276229
Ion Ratio Lower Upper
95 100
174 63.5 53.4 80.0
175 4.7 4.1 6.1

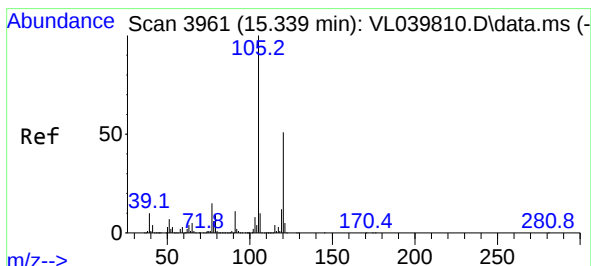
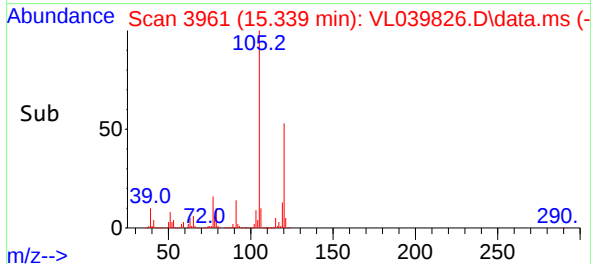
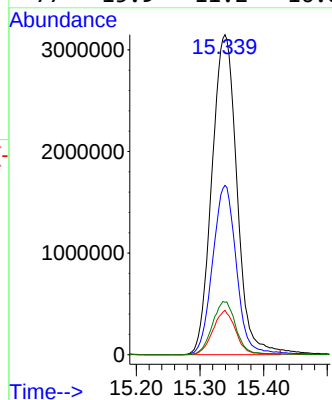
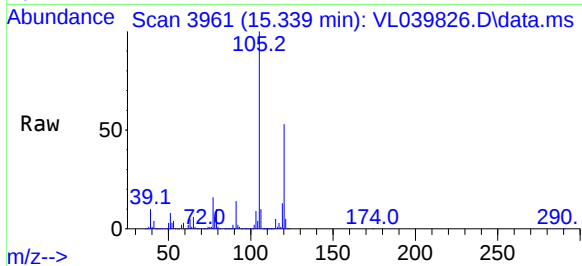




#72
4-Ethyltoluene
Concen: 27.224 ppbv
RT: 15.339 min Scan# 3911
Delta R.T. 0.161 min
Lab File: VL039826.D
Acq: 3 Nov 2022 15:15

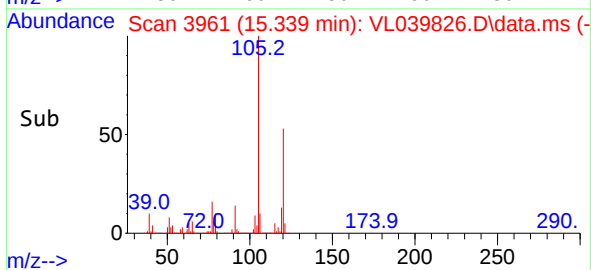
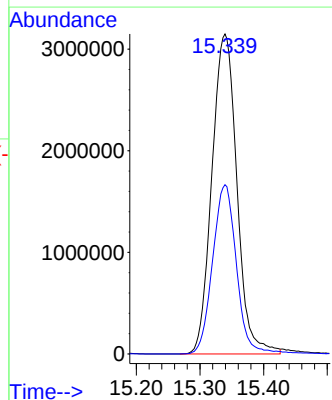
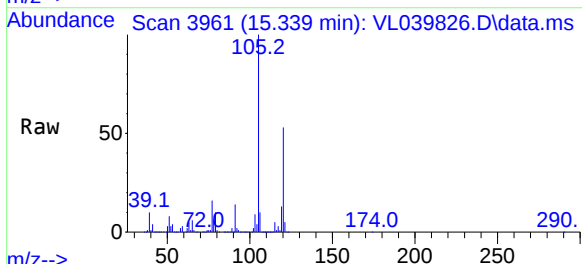
Instrument :
MSVOA_L
ClientSampleId :
E061-1100

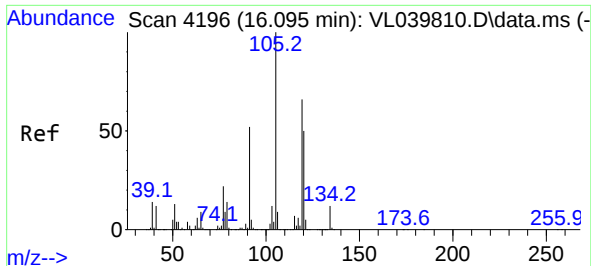
Tgt Ion:105 Resp: 8589279
Ion Ratio Lower Upper
105 100
120 50.9 26.0 39.0#
91 12.9 10.5 15.7
77 15.9 11.2 16.8



#73
1,3,5-Trimethylbenzene
Concen: 30.709 ppbv
RT: 15.339 min Scan# 3961
Delta R.T. -0.000 min
Lab File: VL039826.D
Acq: 3 Nov 2022 15:15

Tgt Ion:105 Resp: 8589279
Ion Ratio Lower Upper
105 100
120 52.9 41.0 61.4

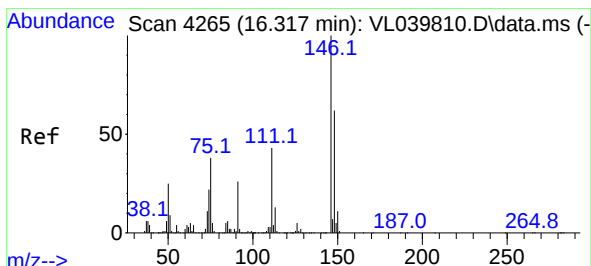
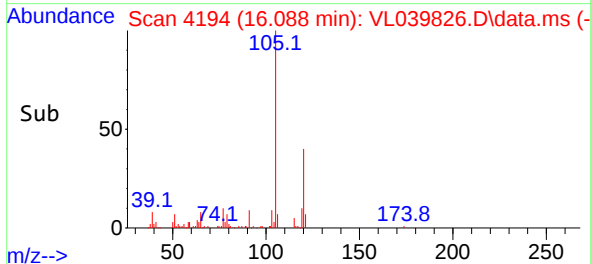
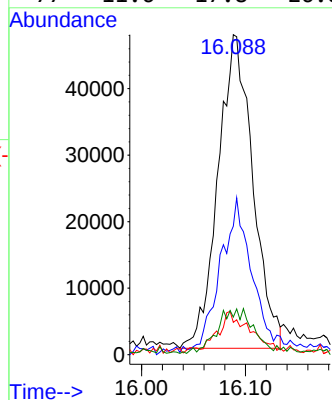
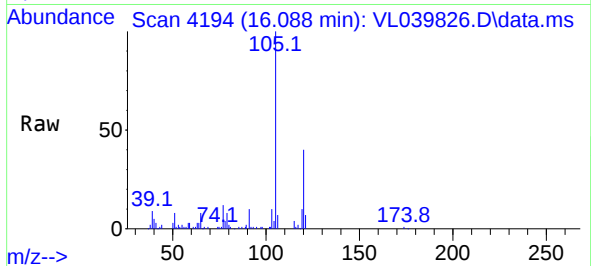




#74
1,2,4-Trimethylbenzene
Concen: 0.369 ppbv
RT: 16.088 min Scan# 4196
Delta R.T. -0.006 min
Lab File: VL039826.D
Acq: 3 Nov 2022 15:15

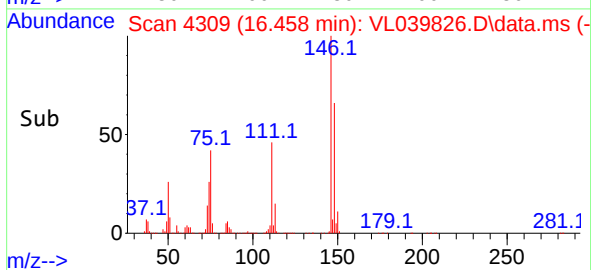
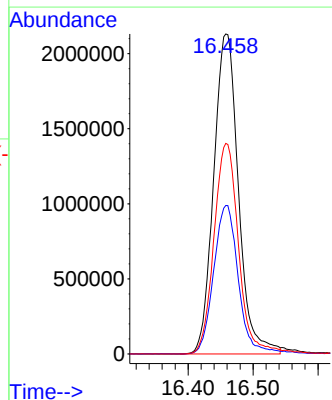
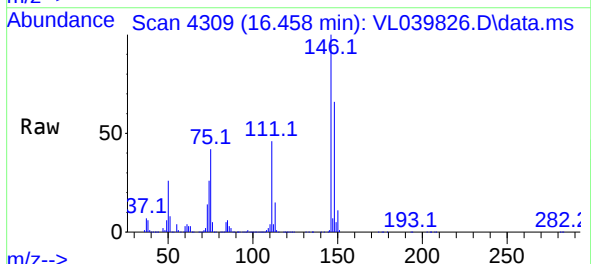
Instrument :
MSVOA_L
ClientSampleId :
E061-1100

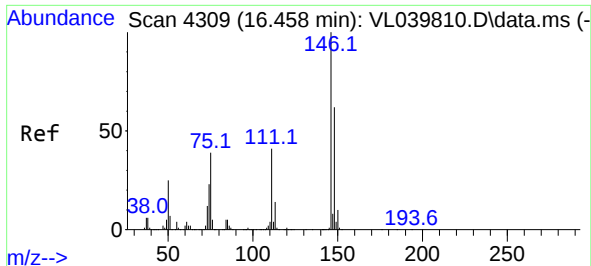
Tgt Ion:105 Resp: 109568
Ion Ratio Lower Upper
105 100
120 40.3 40.2 60.4
91 8.5 42.6 64.0#
77 11.6 17.8 26.8#



#75
1,3-Dichlorobenzene
Concen: 32.489 ppbv
RT: 16.458 min Scan# 4309
Delta R.T. 0.141 min
Lab File: VL039826.D
Acq: 3 Nov 2022 15:15

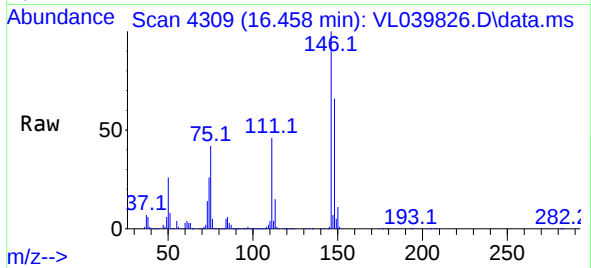
Tgt Ion:146 Resp: 5637121
Ion Ratio Lower Upper
146 100
111 46.6 22.9 68.8
148 66.0 32.3 96.9





#76
 1,4-Dichlorobenzene
 Concen: 33.108 ppbv
 RT: 16.458 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL039826.D
 Acq: 3 Nov 2022 15:15

Instrument :
 MSVOA_L
 ClientSampleId :
 E061-1100



Tgt Ion:146 Resp: 5637121
 Ion Ratio Lower Upper
 146 100
 111 46.5 22.7 68.1
 148 66.1 33.1 99.3

