

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082124\
 Data File : VL041571.D
 Acq On : 21 Aug 2024 17:39
 Operator : SY/MD
 Sample : P3709-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

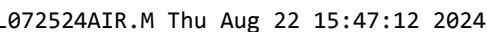
Quant Time: Aug 22 15:47:08 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 22 01:05:17 2024
 Response via : Initial Calibration

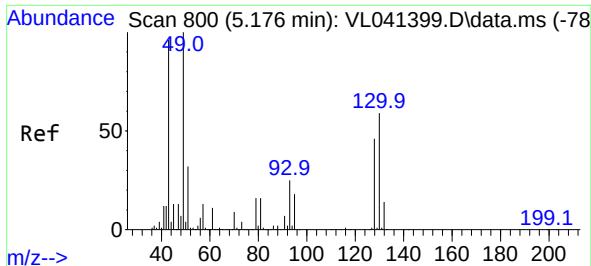
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.198	49	994194	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2576424	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.459	117	2331875	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.770	95	1788116	9.964	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.748	85	43898	0.257	ppbv	93
3) Chlorodifluoromethane	2.671	51	246858	2.086	ppbv #	65
4) Chloromethane	2.835	50	32139	0.511	ppbv	92
9) Propene	2.890	41	326467	6.005	ppbv	97
11) Trichlorofluoromethane	3.575	101	34012	0.224	ppbv	95
12) 1,1,2-Trichlorotrifluo...	4.076	101	5317	0.049	ppbv #	54
13) Ethanol	3.253	45	3911689	804.973	ppbv	96
15) Acetone	3.481	43	390839	3.460	ppbv	98
16) 1,3-Butadiene	2.983	39	4179	0.069	ppbv	92
17) tert-Butyl alcohol	3.899	59	4969	0.048	ppbv #	72
19) Isopropyl Alcohol	3.253	45	3911689	59.232	ppbv #	93
20) Methylene Chloride	3.944	84	1036338	24.602	ppbv	96
23) Vinyl Acetate	4.626	43	5782	0.067	ppbv #	18
25) Ethyl Acetate	5.218	43	845591	3.768	ppbv #	76
26) Hexane	5.218	57	1192445	12.809	ppbv #	38
29) Chloroform	5.279	83	238081	1.568	ppbv	93
34) 2-Butanone	4.800	43	11182	0.090	ppbv #	59
35) Carbon Tetrachloride	6.497	117	5178	0.036	ppbv #	68
36) Benzene	6.372	78	26180	0.139	ppbv	98
39) 1,2-Dichloropropane	6.655	63	630666	8.750	ppbv #	24
41) Tetrahydrofuran	5.218	42	474034	6.650	ppbv #	49
42) Bromodichloromethane	7.253	83	7906	0.052	ppbv #	72
53) Toluene	9.221	91	14842	0.071	ppbv #	17
75) 1,3-Dichlorobenzene	16.468	146	73269	0.450	ppbv	95
76) 1,4-Dichlorobenzene	16.468	146	73269	0.465	ppbv	96

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

Quant Time: Aug 22 15:47:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Aug 22 01:05:17 2024
Response via : Initial Calibration

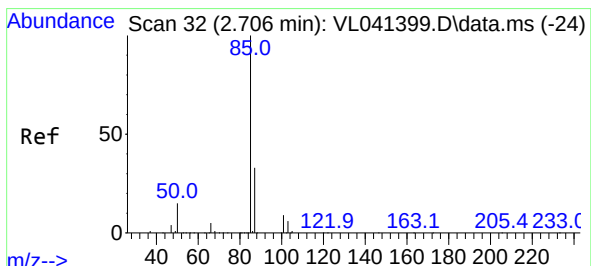
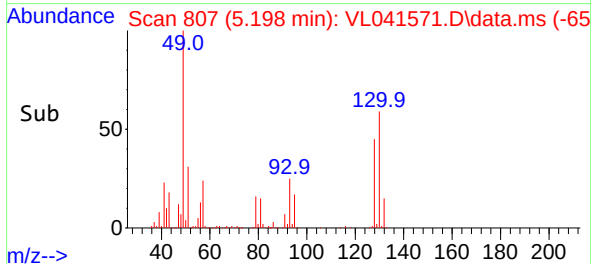
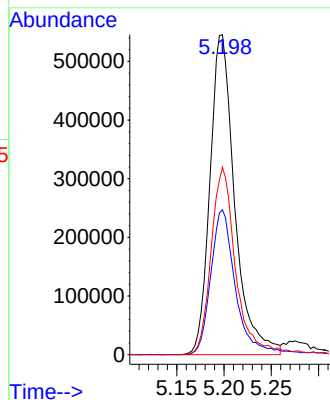
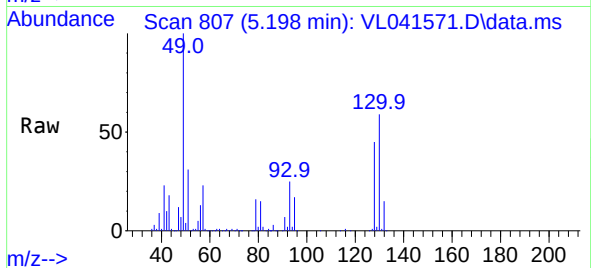




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.198 min Scan# 80
Delta R.T. 0.003 min
Lab File: VL041571.D
Acq: 21 Aug 2024 17:39

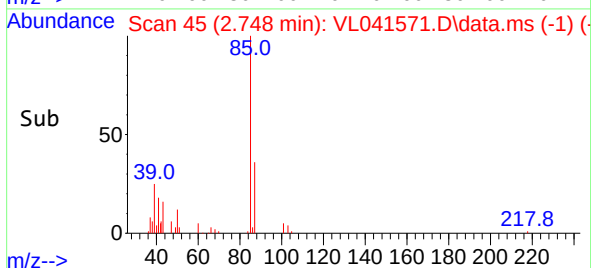
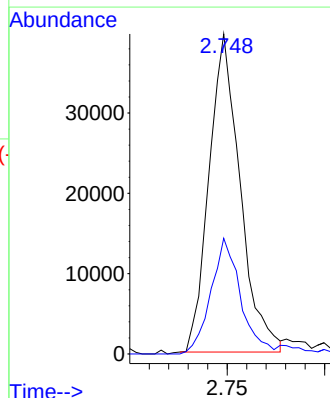
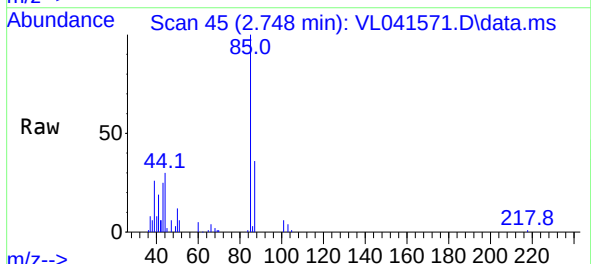
Instrument :
MSVOA_L
ClientSampleId :

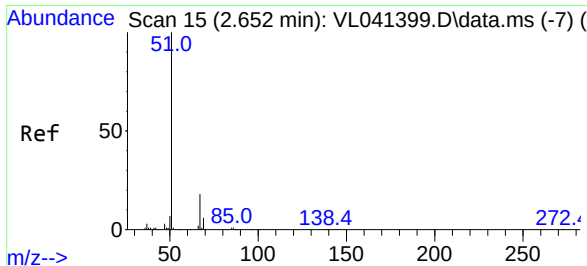
Tgt Ion: 49 Resp: 994194
Ion Ratio Lower Upper
49 100
128 46.8 23.8 71.4
130 59.5 30.8 92.4



#2
Dichlorodifluoromethane
Concen: 0.257 ppbv
RT: 2.748 min Scan# 45
Delta R.T. 0.007 min
Lab File: VL041571.D
Acq: 21 Aug 2024 17:39

Tgt Ion: 85 Resp: 43898
Ion Ratio Lower Upper
85 100
87 36.4 26.0 39.0

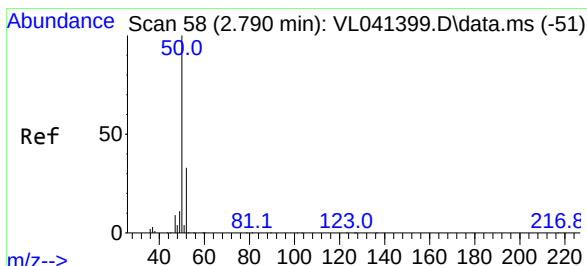
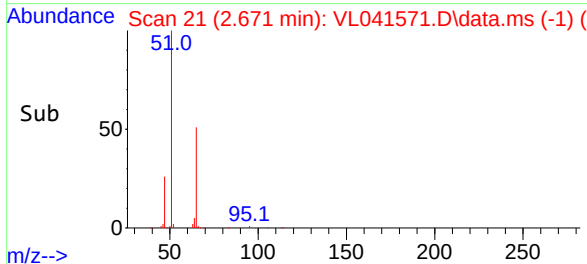
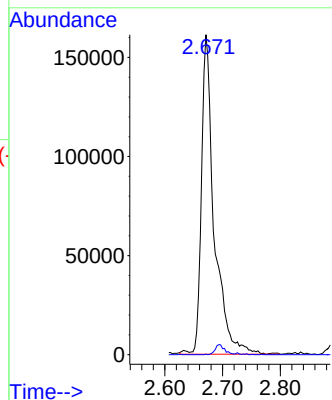
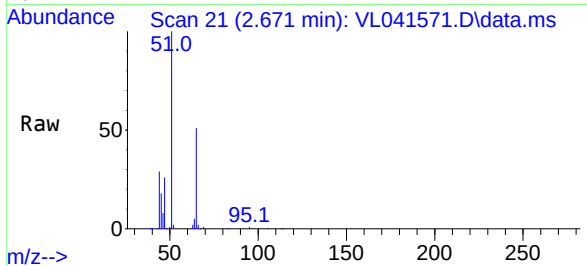




#3
Chlorodifluoromethane
Concen: 2.086 ppbv
RT: 2.671 min Scan# 21
Delta R.T. -0.016 min
Lab File: VL041571.D
Acq: 21 Aug 2024 17:39

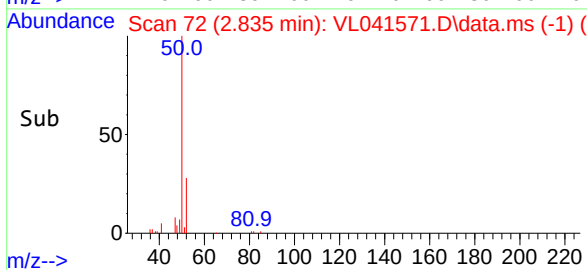
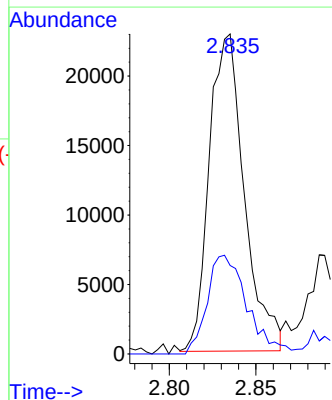
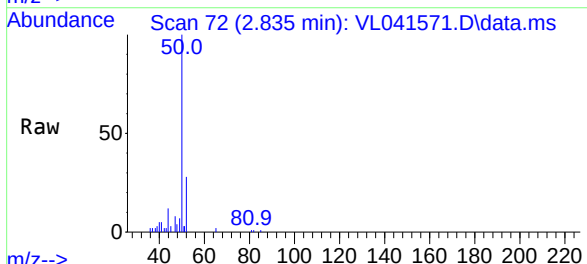
Instrument :
MSVOA_L
ClientSampleId :

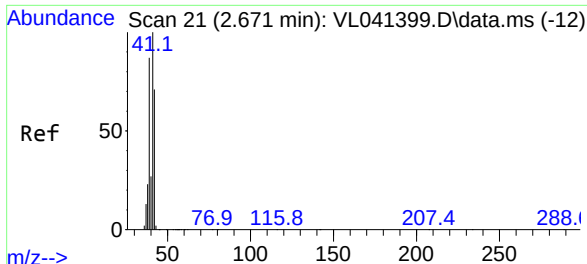
Tgt Ion: 51 Resp: 246858
Ion Ratio Lower Upper
51 100
67 2.6 14.5 21.7#



#4
Chloromethane
Concen: 0.511 ppbv
RT: 2.835 min Scan# 72
Delta R.T. 0.010 min
Lab File: VL041571.D
Acq: 21 Aug 2024 17:39

Tgt Ion: 50 Resp: 32139
Ion Ratio Lower Upper
50 100
52 27.9 26.1 39.1

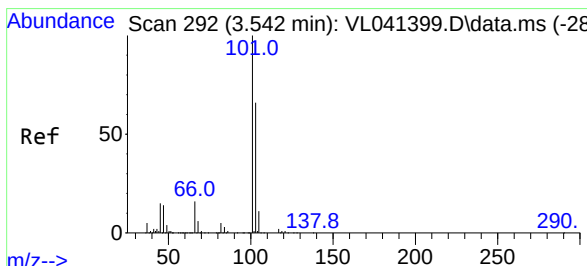
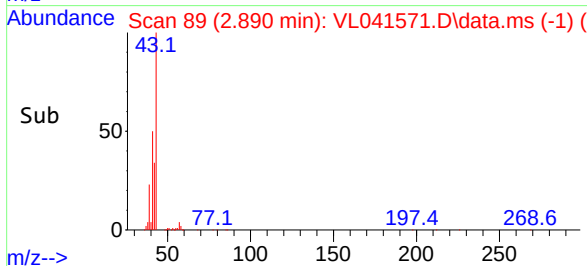
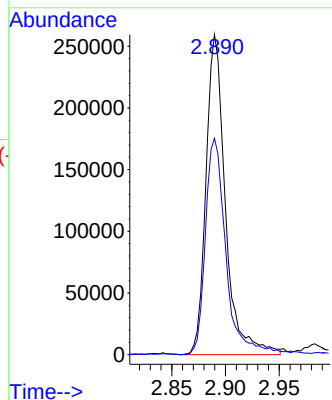
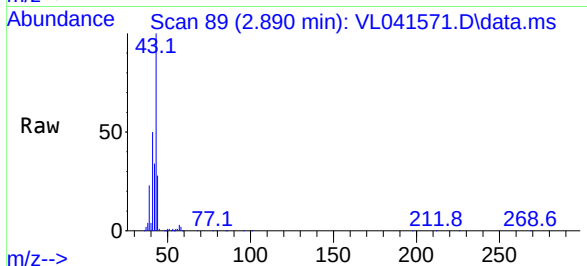




#9
Propene
Concen: 6.005 ppbv
RT: 2.890 min Scan# 89
Delta R.T. 0.183 min
Lab File: VL041571.D
Acq: 21 Aug 2024 17:39

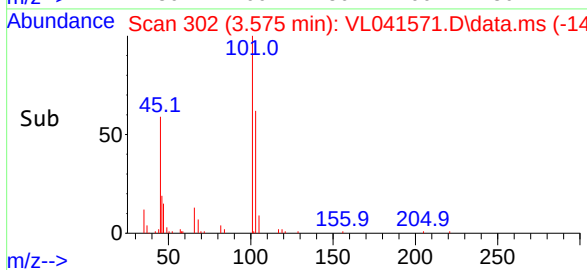
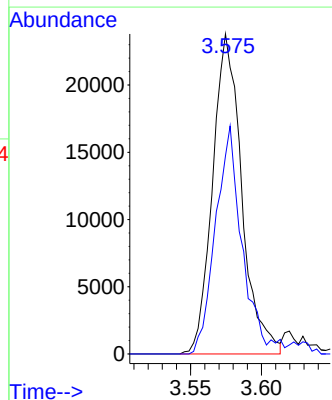
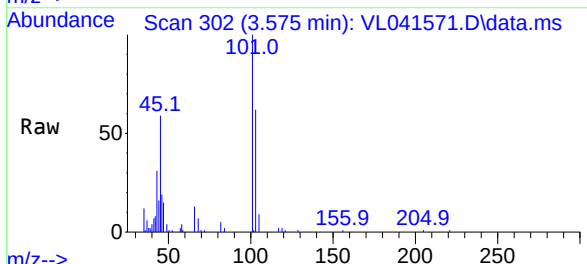
Instrument :
MSVOA_L
ClientSampleId :

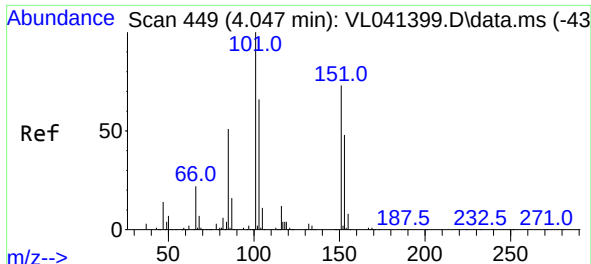
Tgt Ion: 41 Resp: 326467
Ion Ratio Lower Upper
41 100
42 72.3 55.9 83.9



#11
Trichlorofluoromethane
Concen: 0.224 ppbv
RT: 3.575 min Scan# 302
Delta R.T. 0.003 min
Lab File: VL041571.D
Acq: 21 Aug 2024 17:39

Tgt Ion: 101 Resp: 34012
Ion Ratio Lower Upper
101 100
103 61.9 52.6 79.0

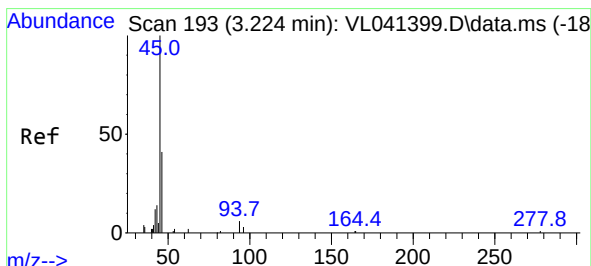
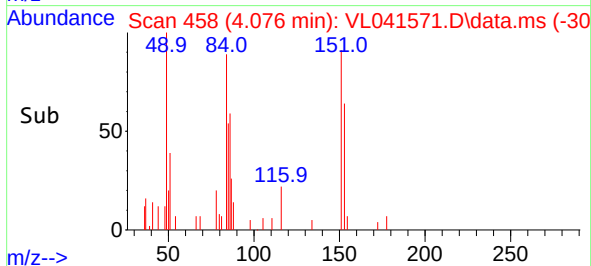
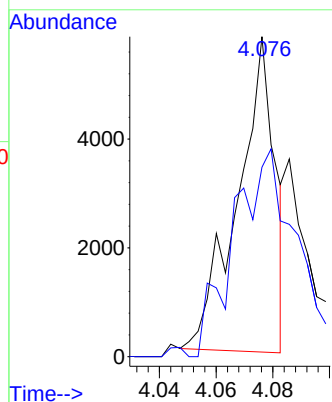
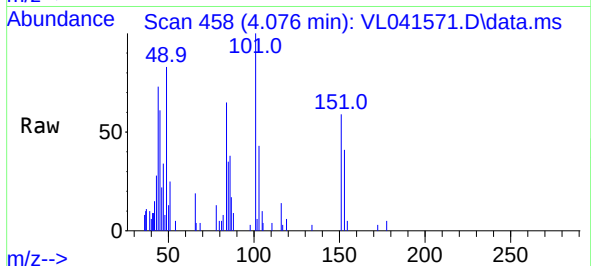




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.049 ppbv
RT: 4.076 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL041571.D
Acq: 21 Aug 2024 17:39

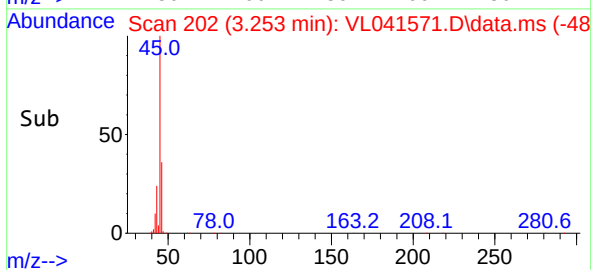
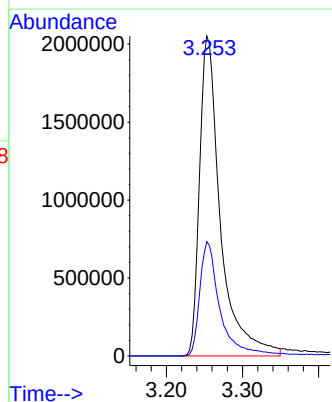
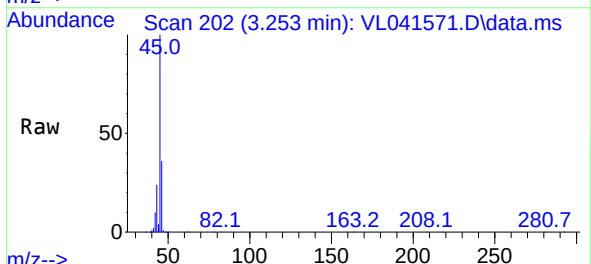
Instrument :
MSVOA_L
ClientSampleId :

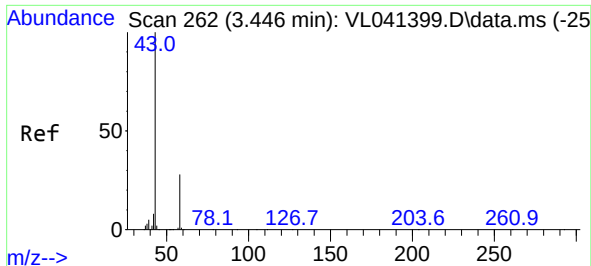
Tgt Ion:101 Resp: 5317
Ion Ratio Lower Upper
101 100
151 113.7 59.4 89.2#



#13
Ethanol
Concen: 804.973 ppbv
RT: 3.253 min Scan# 202
Delta R.T. -0.006 min
Lab File: VL041571.D
Acq: 21 Aug 2024 17:39

Tgt Ion: 45 Resp: 3911689
Ion Ratio Lower Upper
45 100
46 35.5 13.4 53.4

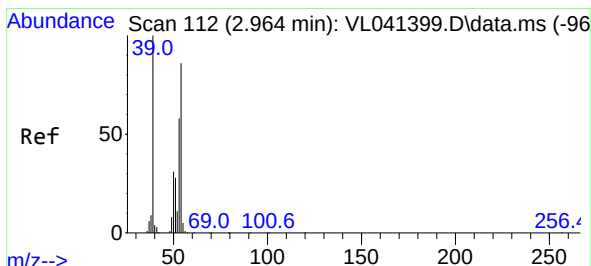
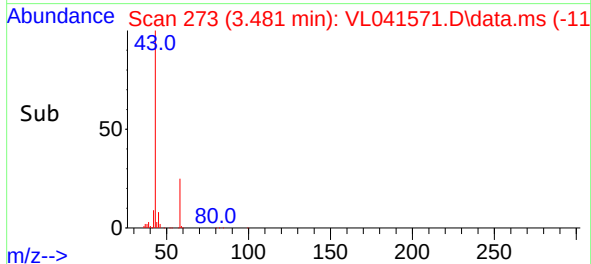
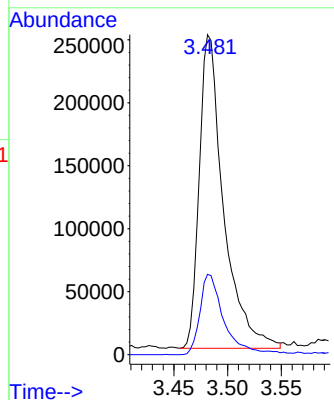
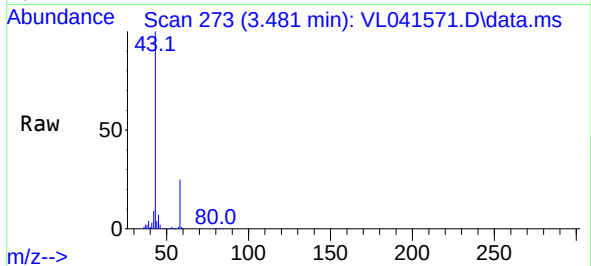




#15
Acetone
Concen: 3.460 ppbv
RT: 3.481 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL041571.D
Acq: 21 Aug 2024 17:39

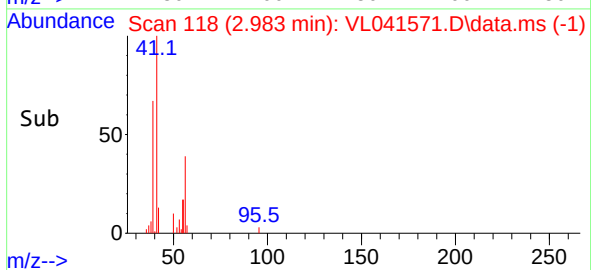
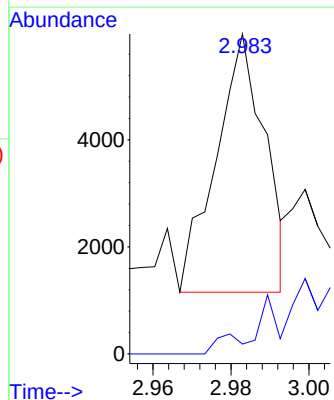
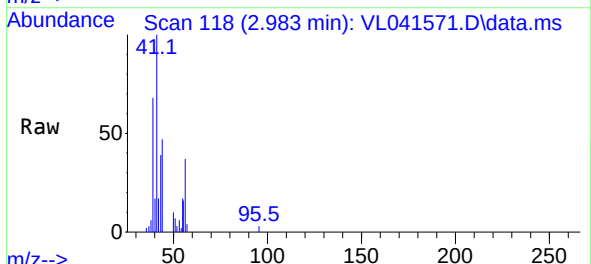
Instrument :
MSVOA_L
ClientSampleId :

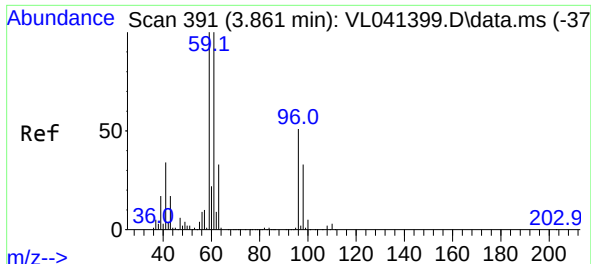
Tgt Ion: 43 Resp: 390839
Ion Ratio Lower Upper
43 100
58 25.5 21.4 32.2



#16
1,3-Butadiene
Concen: 0.069 ppbv
RT: 2.983 min Scan# 118
Delta R.T. -0.013 min
Lab File: VL041571.D
Acq: 21 Aug 2024 17:39

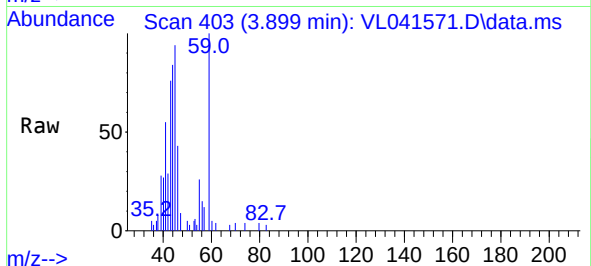
Tgt Ion: 39 Resp: 4179
Ion Ratio Lower Upper
39 100
54 71.1 62.5 93.7



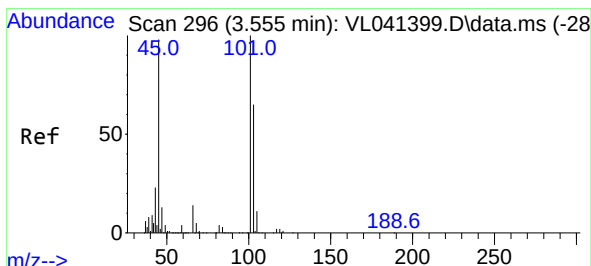
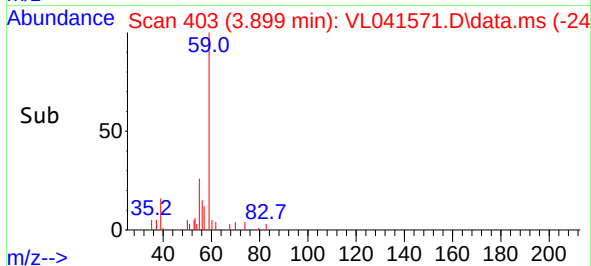
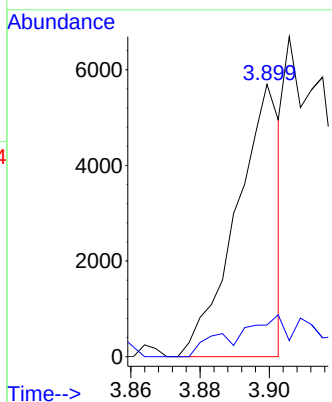


#17
tert-Butyl alcohol
Concen: 0.048 ppbv
RT: 3.899 min Scan# 403
Delta R.T. 0.016 min
Lab File: VL041571.D
Acq: 21 Aug 2024 17:39

Instrument :
MSVOA_L
ClientSampleId :

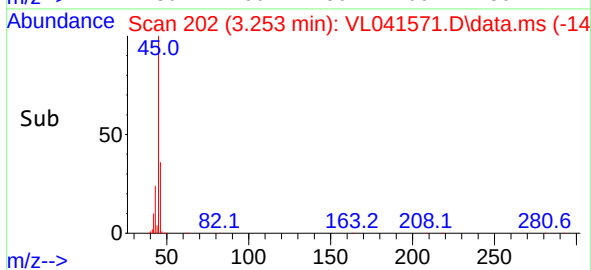
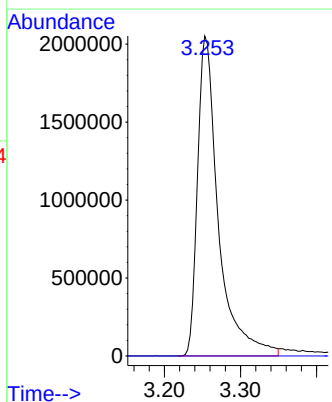
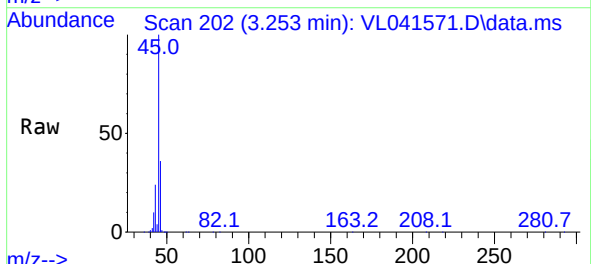


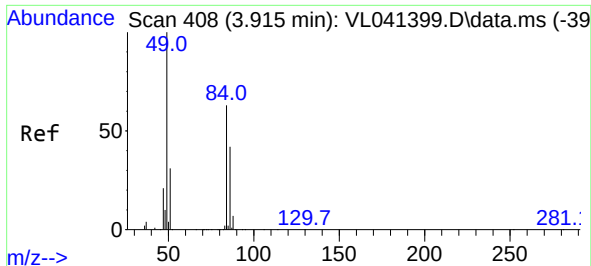
Tgt Ion: 59 Resp: 4969
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#19
Isopropyl Alcohol
Concen: 59.232 ppbv
RT: 3.253 min Scan# 202
Delta R.T. -0.331 min
Lab File: VL041571.D
Acq: 21 Aug 2024 17:39

Tgt Ion: 45 Resp: 3911689
Ion Ratio Lower Upper
45 100
58 0.0 1.9 2.9#





#20

Methylene Chloride

Concen: 24.602 ppbv

RT: 3.944 min Scan# 417

Delta R.T. 0.003 min

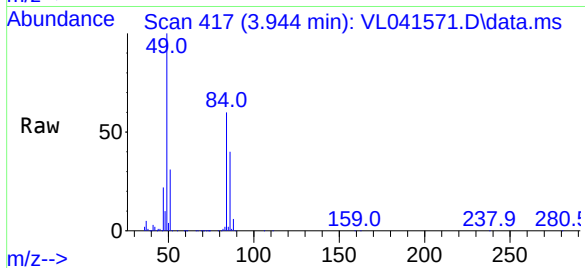
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Acq: 21 Aug 2024 17:39

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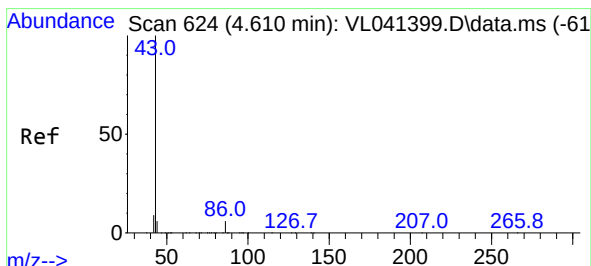
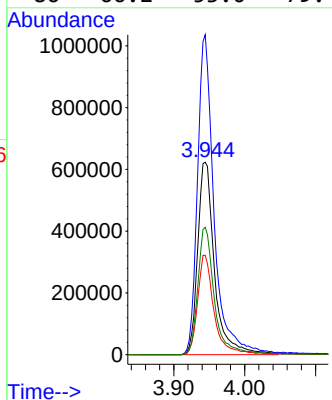
MSVOA_L

ClientSampleId :



Tgt Ion: 84 Resp: 1036338

Ion	Ratio	Lower	Upper
84	100		
49	166.2	126.6	190.0
51	51.6	38.6	58.0
86	66.2	53.0	79.4



#23

Vinyl Acetate

Concen: 0.067 ppbv

RT: 4.626 min Scan# 629

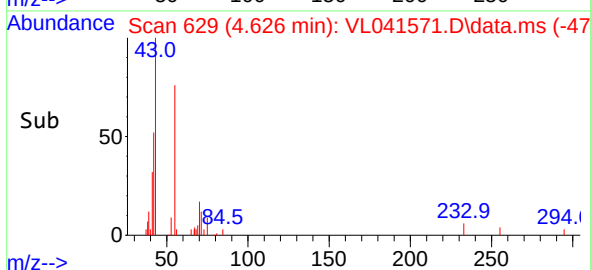
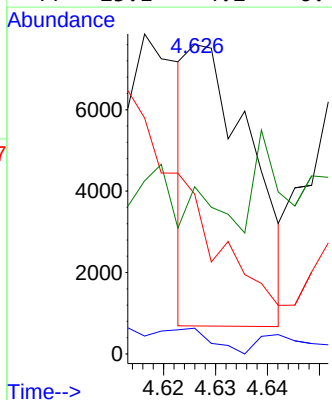
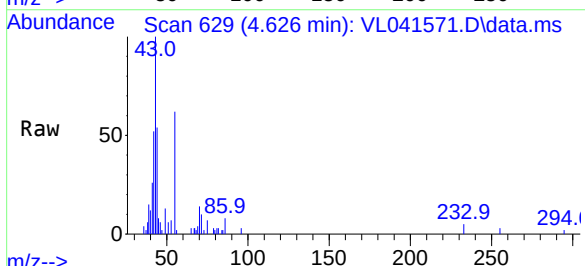
Delta R.T. -0.006 min

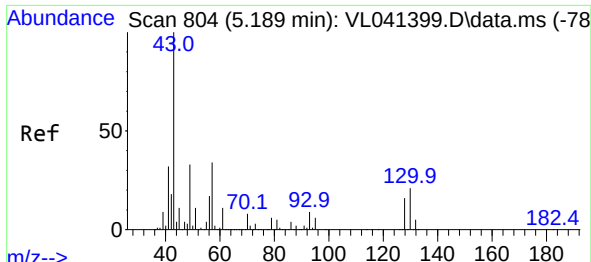
Lab File: VL041571.D

Acq: 21 Aug 2024 17:39

Tgt Ion: 43 Resp: 5782

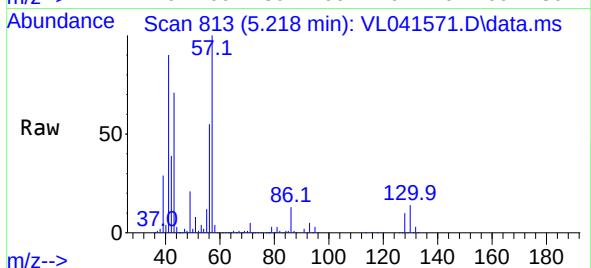
Ion	Ratio	Lower	Upper
43	100		
86	3.6	4.6	6.8#
42	62.1	7.9	11.9#
44	23.1	4.2	6.4#





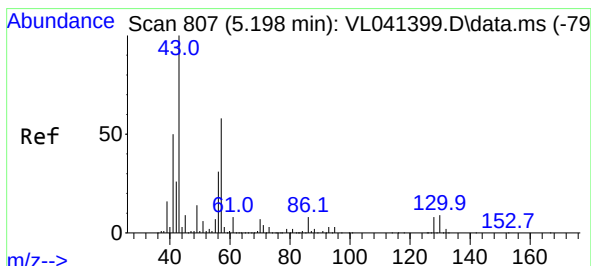
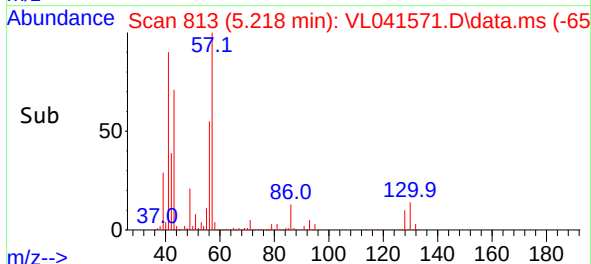
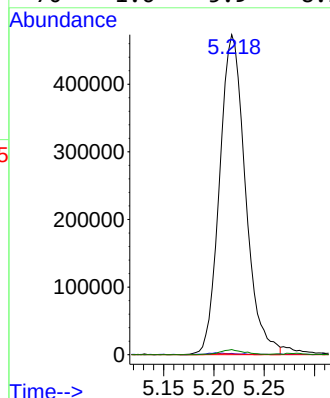
#25
Ethyl Acetate
Concen: 3.768 ppbv
RT: 5.218 min Scan# 813
Delta R.T. 0.010 min
Lab File: VL041571.D
Acq: 21 Aug 2024 17:39

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 43 Resp: 845591

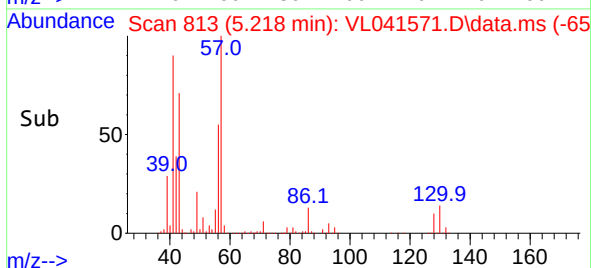
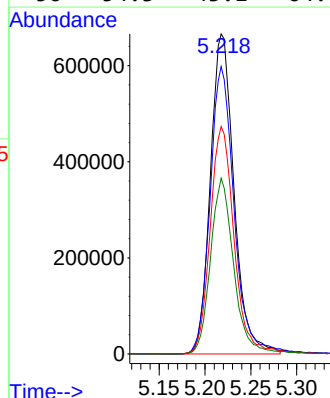
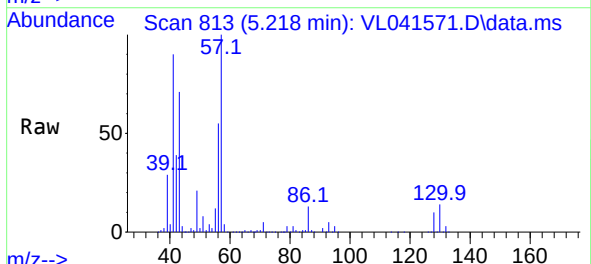
Ion	Ratio	Lower	Upper
43	100		
45	0.7	8.5	12.7#
61	0.3	8.0	12.0#
70	1.6	5.9	8.9#

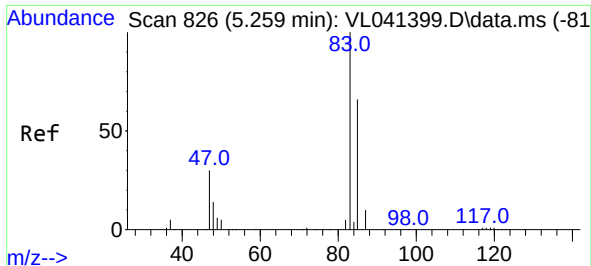


#26
Hexane
Concen: 12.809 ppbv
RT: 5.218 min Scan# 813
Delta R.T. 0.000 min
Lab File: VL041571.D
Acq: 21 Aug 2024 17:39

Tgt Ion: 57 Resp: 1192445

Ion	Ratio	Lower	Upper
57	100		
41	92.4	74.0	111.0
43	72.4	193.6	290.4#
56	54.3	43.1	64.7





#29

Chloroform

Concen: 1.568 ppbv

RT: 5.279 min Scan# 81

Delta R.T. 0.000 min

Lab File: VL041571.D

Acq: 21 Aug 2024 17:39

Instrument :

MSVOA_L

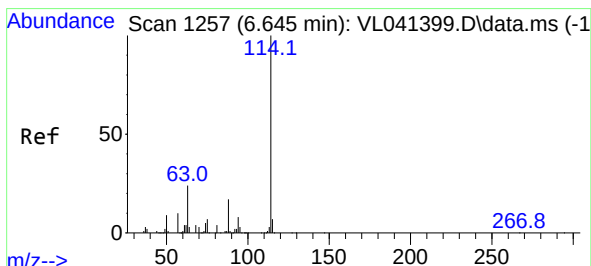
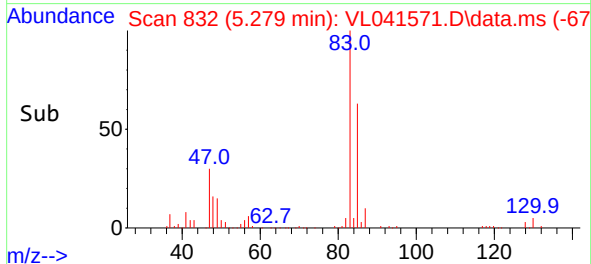
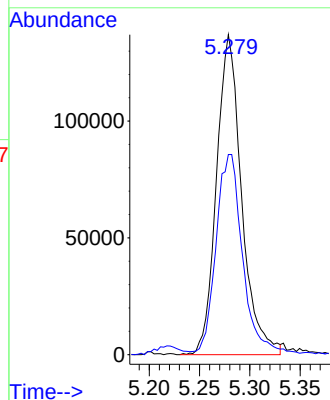
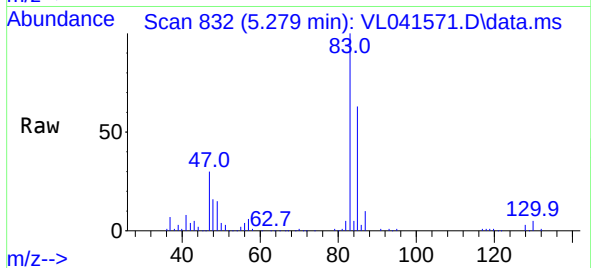
ClientSampleId :

Tgt Ion: 83 Resp: 238081

Ion Ratio Lower Upper

83 100

85 61.1 53.1 79.7



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.655 min Scan# 1260

Delta R.T. 0.000 min

Lab File: VL041571.D

Acq: 21 Aug 2024 17:39

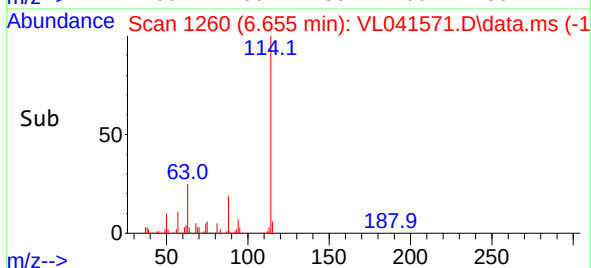
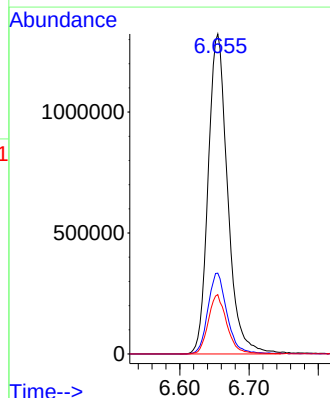
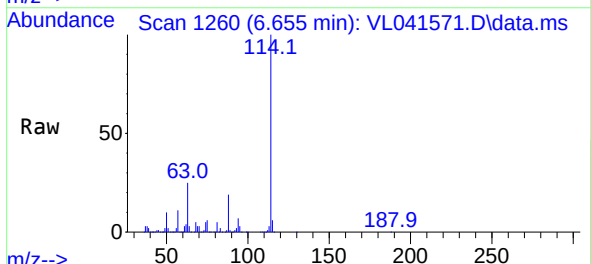
Tgt Ion:114 Resp: 2576424

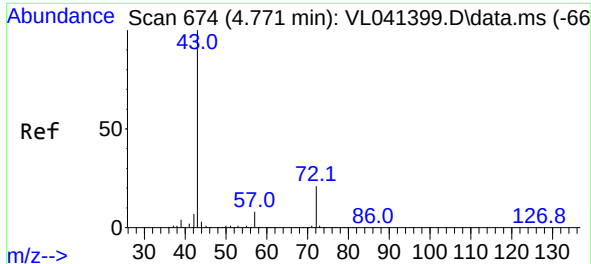
Ion Ratio Lower Upper

114 100

63 25.1 20.3 30.5

88 17.9 14.3 21.5





#34

2-Butanone

Concen: 0.090 ppbv

RT: 4.800 min Scan# 61

Delta R.T. 0.007 min

Lab File: VL041571.D

Acq: 21 Aug 2024 17:39

Instrument :

MSVOA_L

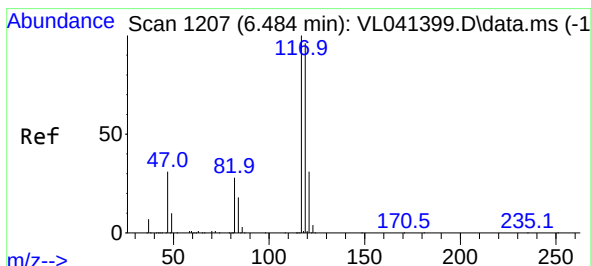
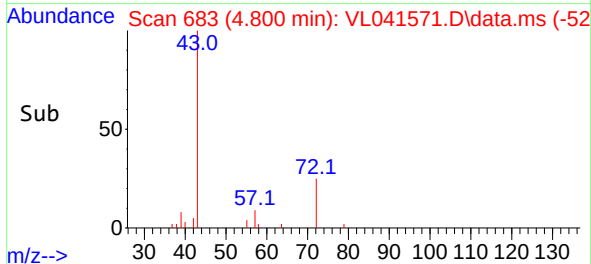
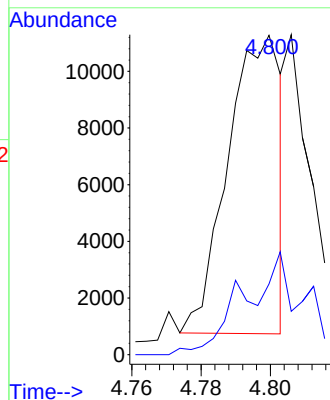
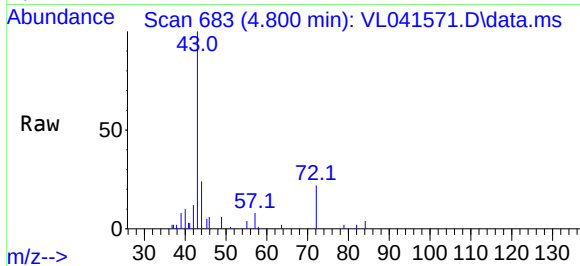
ClientSampleId :

Tgt Ion: 43 Resp: 11182

Ion Ratio Lower Upper

43 100

72 41.2 17.3 25.9#



#35

Carbon Tetrachloride

Concen: 0.036 ppbv

RT: 6.497 min Scan# 1211

Delta R.T. 0.000 min

Lab File: VL041571.D

Acq: 21 Aug 2024 17:39

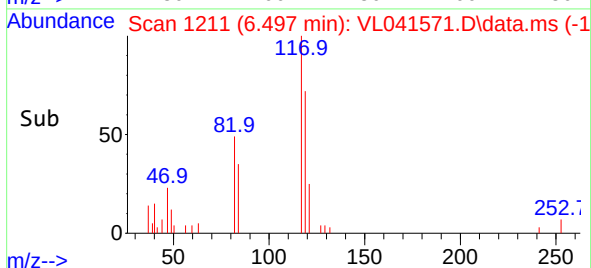
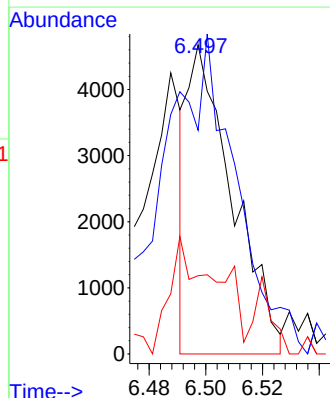
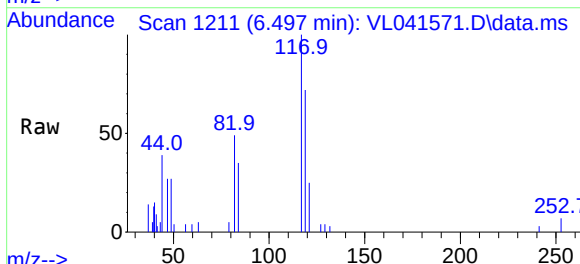
Tgt Ion: 117 Resp: 5178

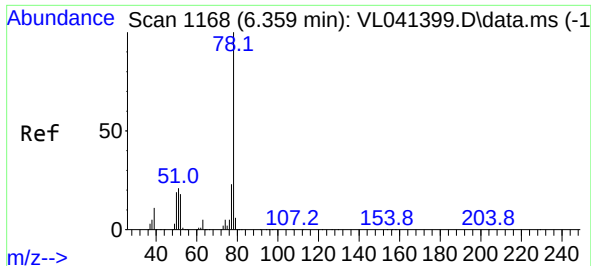
Ion Ratio Lower Upper

117 100

119 61.2 76.6 115.0#

121 18.4 25.1 37.7#

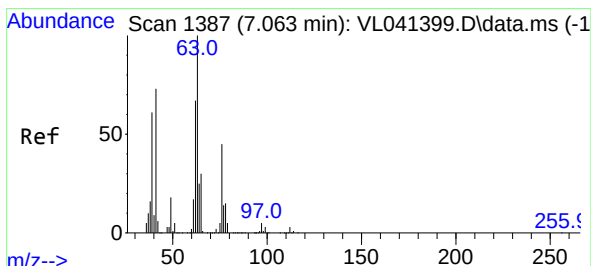
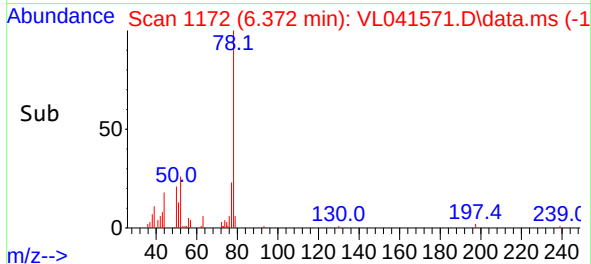
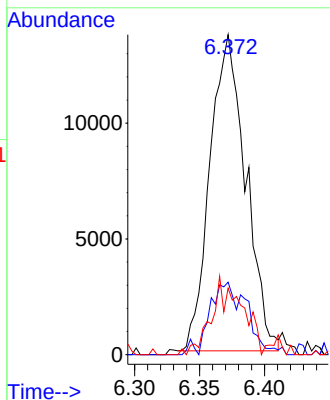
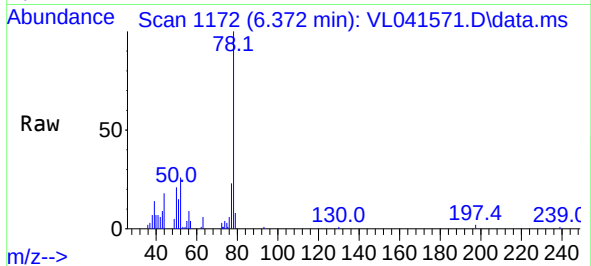




#36
Benzene
Concen: 0.139 ppbv
RT: 6.372 min Scan# 1168
Delta R.T. 0.000 min
Lab File: VL041571.D
Acq: 21 Aug 2024 17:39

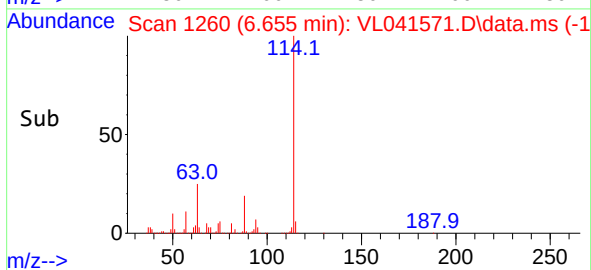
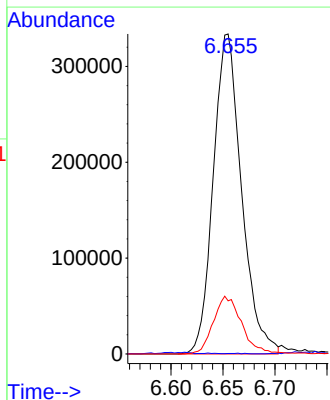
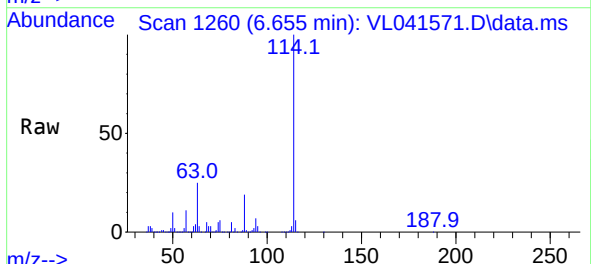
Instrument :
MSVOA_L
ClientSampleId :

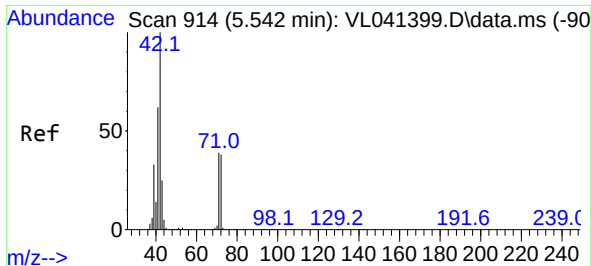
Tgt Ion: 78 Resp: 26180
Ion Ratio Lower Upper
78 100
77 22.9 18.1 27.1
50 21.0 15.5 23.3



#39
1,2-Dichloropropane
Concen: 8.750 ppbv
RT: 6.655 min Scan# 1260
Delta R.T. -0.421 min
Lab File: VL041571.D
Acq: 21 Aug 2024 17:39

Tgt Ion: 63 Resp: 630666
Ion Ratio Lower Upper
63 100
41 0.0 58.3 87.5#
62 16.6 53.9 80.9#





#41

Tetrahydrofuran

Concen: 6.650 ppbv

RT: 5.218 min Scan# 81

Delta R.T. -0.344 min

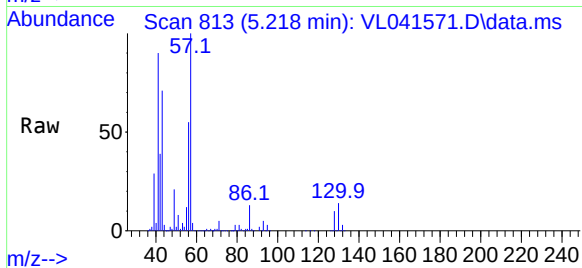
Lab File: VL041571.D

Acq: 21 Aug 2024 17:39

Instrument :

MSVOA_L

ClientSampleId :



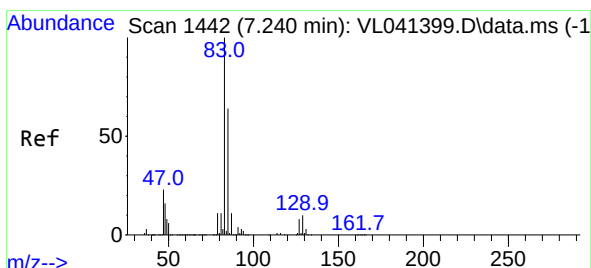
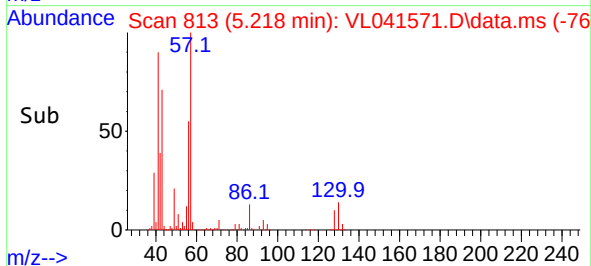
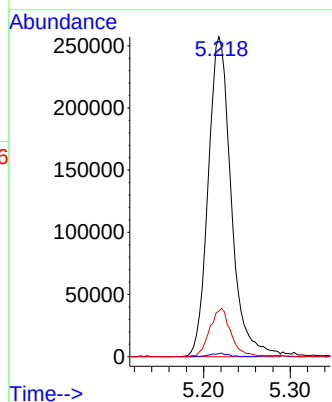
Tgt Ion: 42 Resp: 474034

Ion Ratio Lower Upper

42 100

72 0.8 31.2 46.8#

71 13.9 30.5 45.7#



#42

Bromodichloromethane

Concen: 0.052 ppbv

RT: 7.253 min Scan# 1446

Delta R.T. 0.000 min

Lab File: VL041571.D

Acq: 21 Aug 2024 17:39

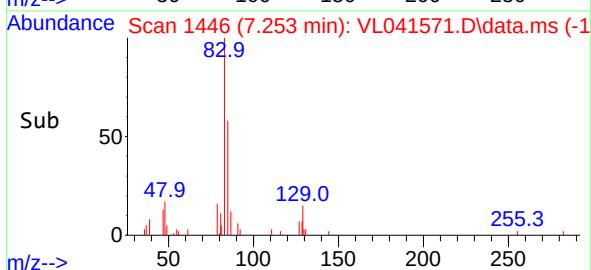
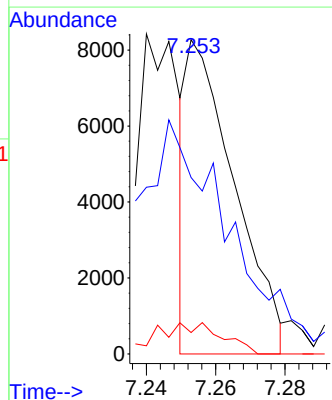
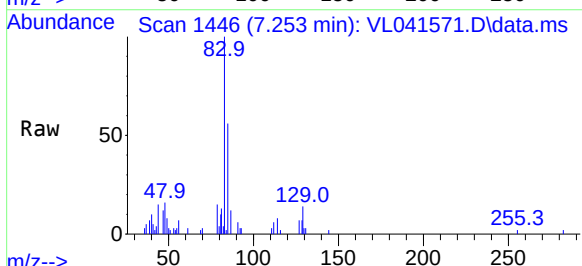
Tgt Ion: 83 Resp: 7906

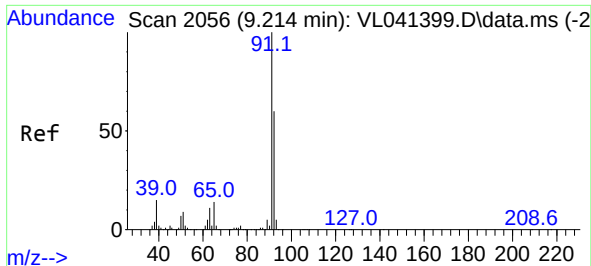
Ion Ratio Lower Upper

83 100

85 39.5 51.4 77.0#

127 7.6 6.7 10.1

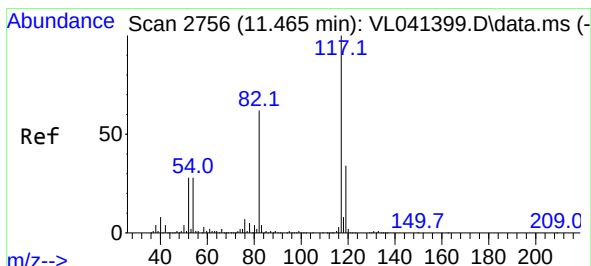
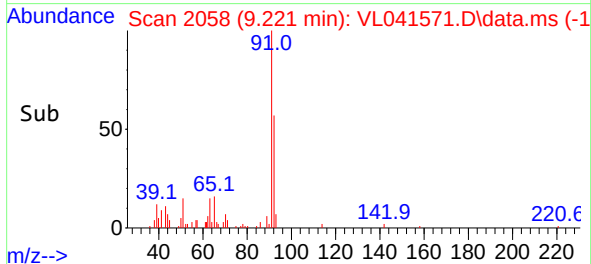
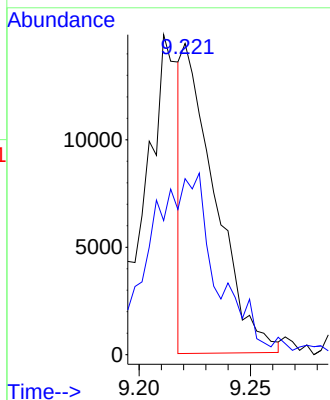
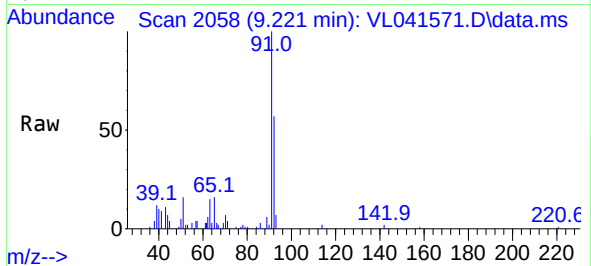




#53
Toluene
Concen: 0.071 ppbv
RT: 9.221 min Scan# 2056
Delta R.T. 0.000 min
Lab File: VL041571.D
Acq: 21 Aug 2024 17:39

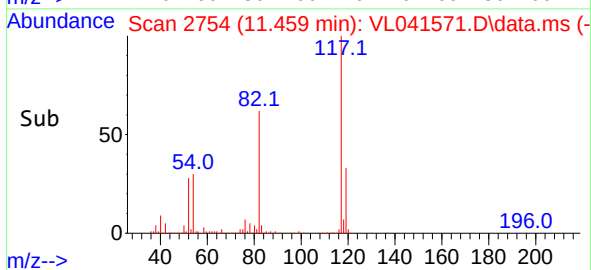
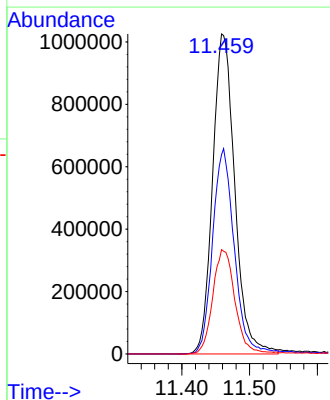
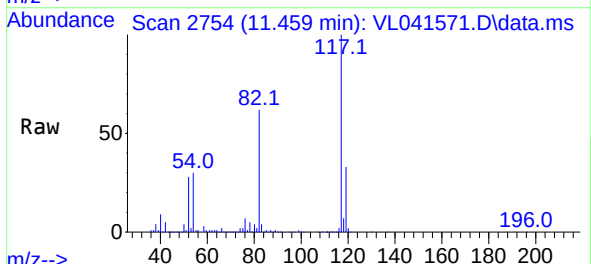
Instrument :
MSVOA_L
ClientSampleId :

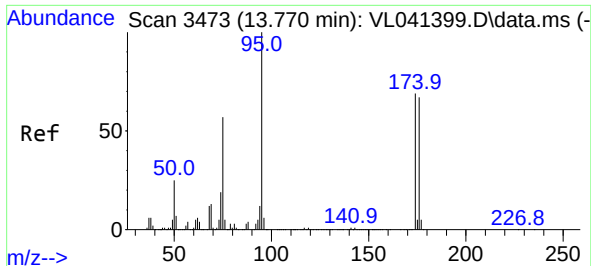
Tgt Ion: 91 Resp: 14842
Ion Ratio Lower Upper
91 100
92 124.5 48.7 73.1#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.459 min Scan# 2754
Delta R.T. -0.006 min
Lab File: VL041571.D
Acq: 21 Aug 2024 17:39

Tgt Ion:117 Resp: 2331875
Ion Ratio Lower Upper
117 100
82 63.6 51.0 76.6
119 32.8 45.2 67.8#

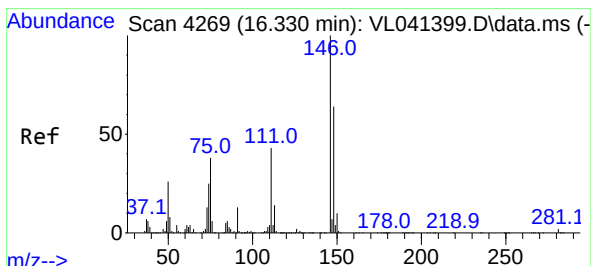
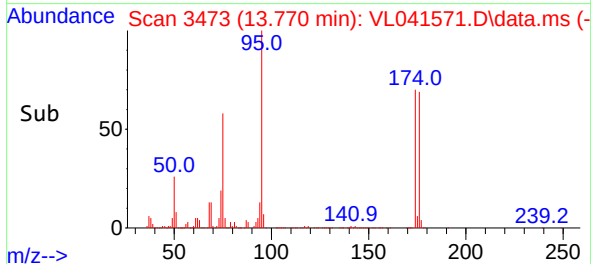
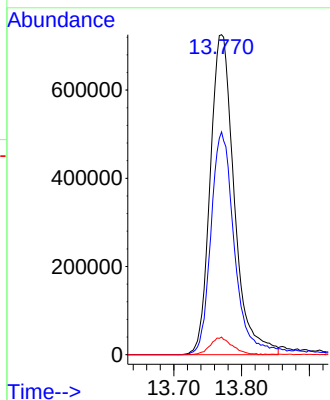
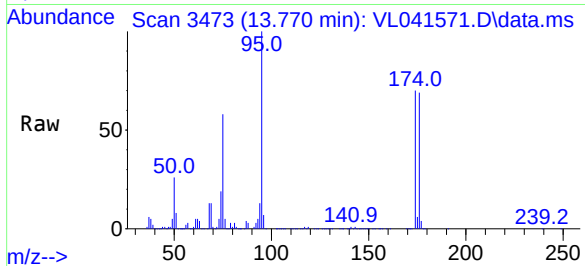




#68
1-Bromo-4-Fluorobenzene
Concen: 9.964 ppbv
RT: 13.770 min Scan# 3473
Delta R.T. -0.003 min
Lab File: VL041571.D
Acq: 21 Aug 2024 17:39

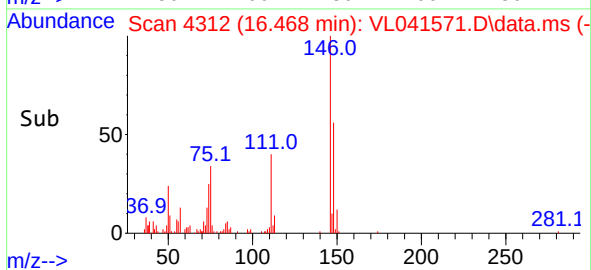
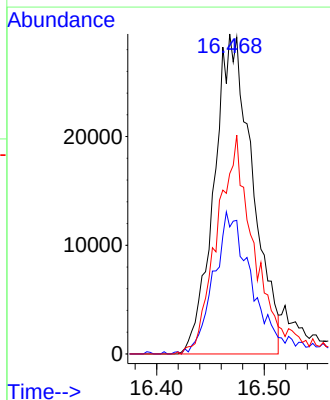
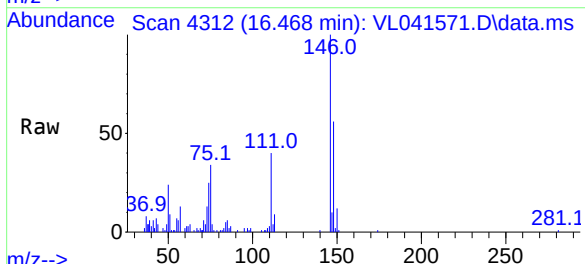
Instrument :
MSVOA_L
ClientSampleId :

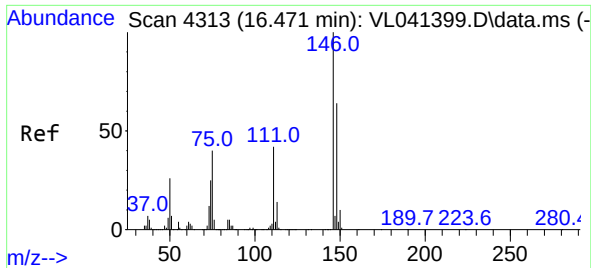
Tgt Ion: 95 Resp: 1788116
Ion Ratio Lower Upper
95 100
174 70.5 56.3 84.5
175 5.0 4.0 6.0



#75
1,3-Dichlorobenzene
Concen: 0.450 ppbv
RT: 16.468 min Scan# 4312
Delta R.T. 0.142 min
Lab File: VL041571.D
Acq: 21 Aug 2024 17:39

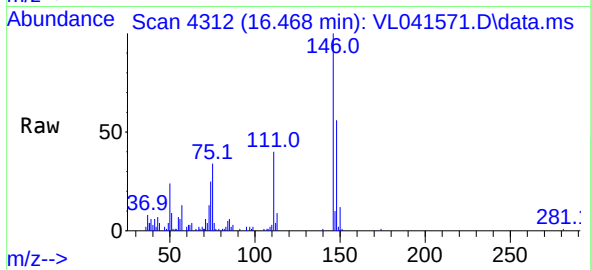
Tgt Ion:146 Resp: 73269
Ion Ratio Lower Upper
146 100
111 47.2 22.6 67.8
148 69.1 32.3 96.8





#76
 1,4-Dichlorobenzene
 Concen: 0.465 ppbv
 RT: 16.468 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL041571.D
 Acq: 21 Aug 2024 17:39

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion:	146	Resp:	73269
Ion	Ratio	Lower	Upper
146	100		
111	47.2	22.4	67.0
148	69.1	33.1	99.5

