

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081924\
 Data File : VL041548.D
 Acq On : 19 Aug 2024 14:56
 Operator : SY/MD
 Sample : P3658-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: Aug 20 02:17:32 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 : Tue Aug 20 02:10:04 2024
 Response via : Initial Calibration

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

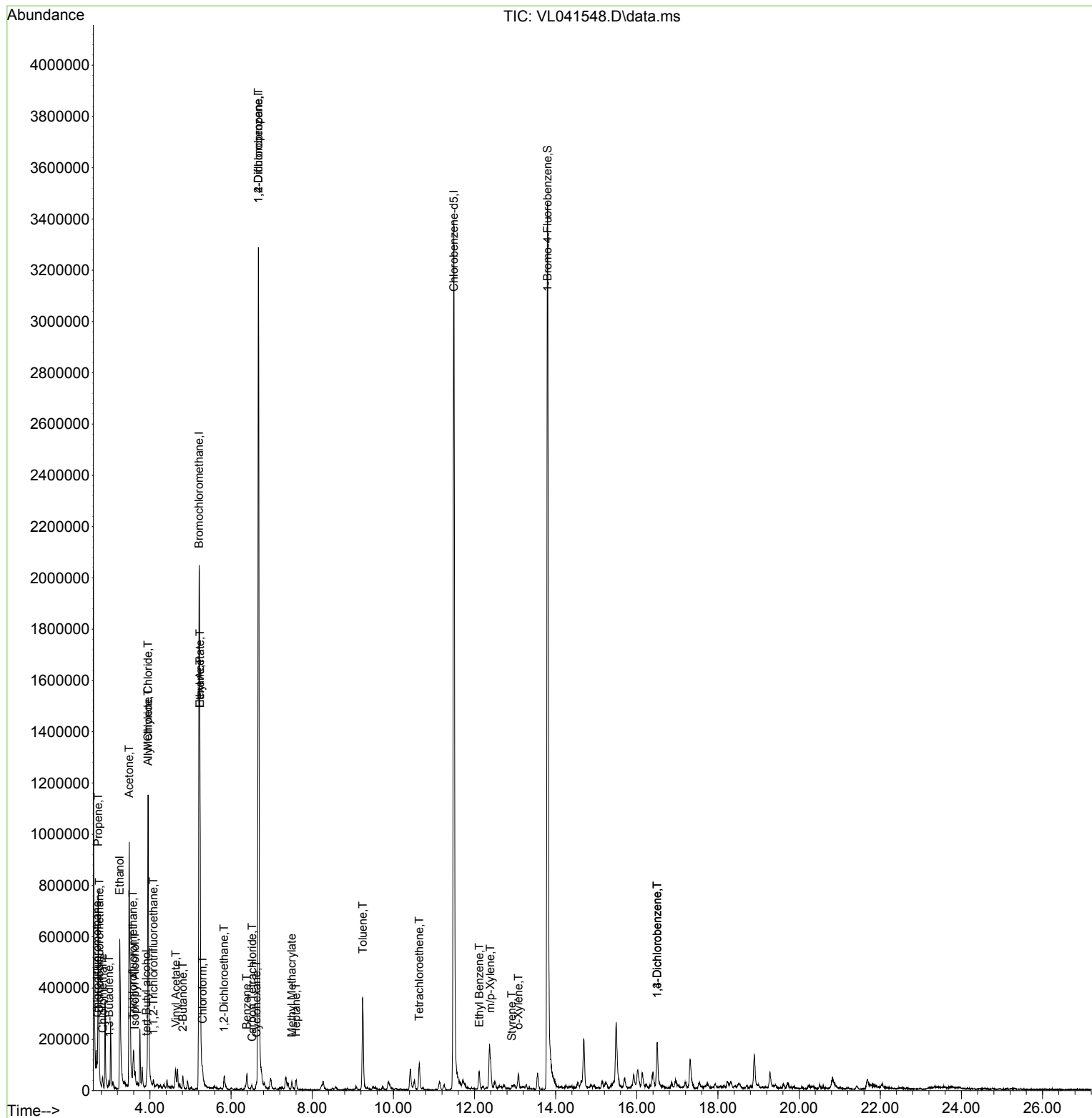
Internal Standards						
1) Bromochloromethane	5.211	49	917311	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.674	114	2464987	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.491	117	2247044	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.799	95	1716409	9.926	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.751	85	34506	0.219	ppbv	95
3) Chlorodifluoromethane	2.697	51	137815	1.262	ppbv #	83
4) Chloromethane	2.835	50	30309	0.522	ppbv	91
9) Propene	2.726	41	168272	3.354	ppbv #	69
10) Heptane	7.603	43	10703	0.095	ppbv #	77
11) Trichlorofluoromethane	3.581	101	36710	0.262	ppbv	97
12) 1,1,2-Trichlorotrifluo...	4.086	101	4306	0.043	ppbv #	12
13) Ethanol	3.256	45	702772	156.742	ppbv	96
15) Acetone	3.488	43	1085173	10.412	ppbv	99
16) 1,3-Butadiene	2.993	39	9137	0.164	ppbv #	52
17) tert-Butyl alcohol	3.912	59	6151	0.065	ppbv #	72
19) Isopropyl Alcohol	3.626	45	13489	0.221	ppbv #	93
20) Methylene Chloride	3.954	84	382553	9.843	ppbv	96
21) Allyl Chloride	3.951	41	12777	0.187	ppbv #	36
23) Vinyl Acetate	4.639	43	17586	0.221	ppbv #	39
25) Ethyl Acetate	5.234	43	246982	1.193	ppbv #	84
26) Hexane	5.234	57	284433	3.311	ppbv #	42
29) Chloroform	5.295	83	17509	0.125	ppbv	85
30) Cyclohexane	6.626	84	2470	0.035	ppbv #	1
34) 2-Butanone	4.812	43	52719	0.442	ppbv #	90
35) Carbon Tetrachloride	6.517	117	7195	0.053	ppbv #	81
36) Benzene	6.388	78	21950	0.122	ppbv	95
37) 1,2-Dichloroethane	5.829	62	21674	0.215	ppbv #	93
39) 1,2-Dichloropropane	6.674	63	606323	8.793	ppbv #	25
43) Methyl Methacrylate	7.497	69	3884	0.060	ppbv #	1
52) Tetrachloroethene	10.642	164	11688	0.168	ppbv	94
53) Toluene	9.246	91	260499	1.298	ppbv	99
58) Ethyl Benzene	12.118	91	24258	0.094	ppbv	92
59) m/p-Xylene	12.391	91	57534	0.257	ppbv #	31
60) o-Xylene	13.082	91	42620	0.202	ppbv	92
61) Styrene	12.918	104	3120	0.033	ppbv #	38
75) 1,3-Dichlorobenzene	16.500	146	16839	0.107	ppbv #	46
76) 1,4-Dichlorobenzene	16.500	146	16839	0.111	ppbv #	47

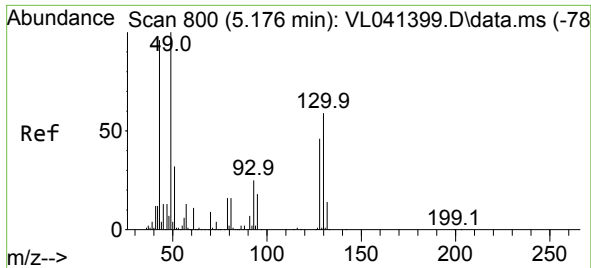
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 20 02:17:32 2024
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Aug 20 02:10:04 2024
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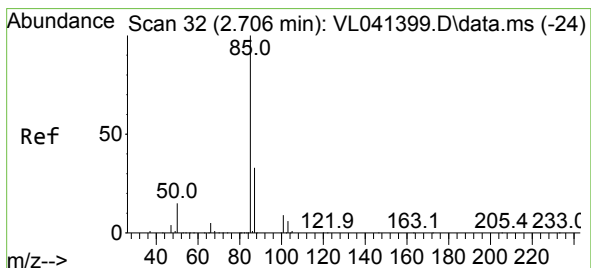
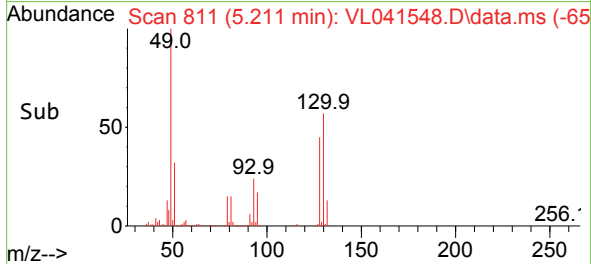
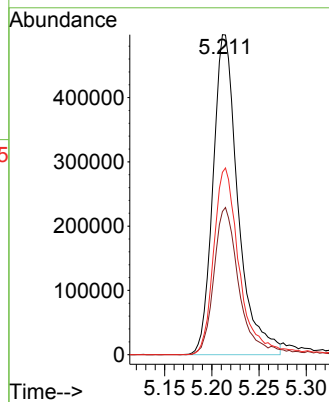
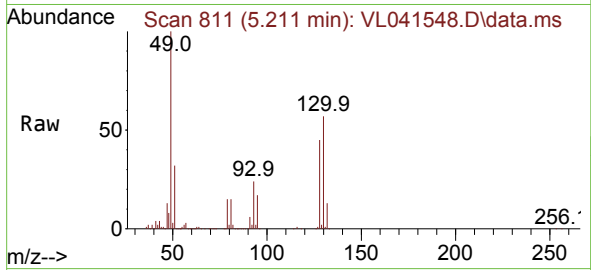




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.211 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL041548.D
Acq: 19 Aug 2024 14:56

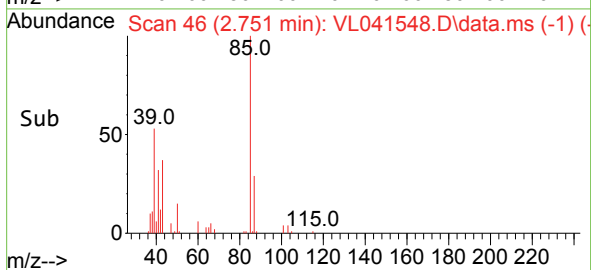
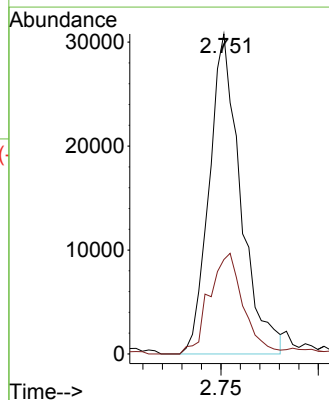
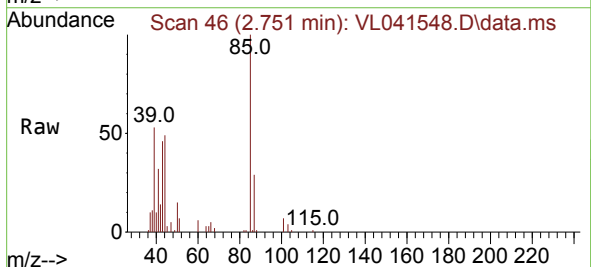
Instrument :
MSVOA_L
ClientSampleId :
OA1

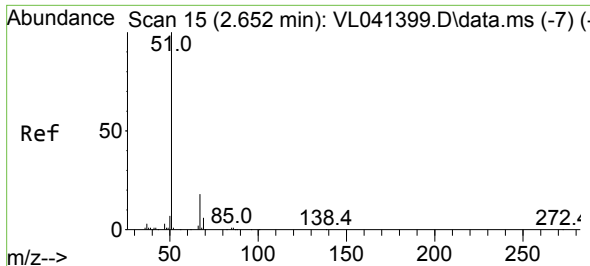
Tgt Ion: 49 Resp: 917311
Ion Ratio Lower Upper
49 100
128 47.3 23.8 71.4
130 61.5 30.8 92.4



#2
Dichlorodifluoromethane
Concen: 0.219 ppbv
RT: 2.751 min Scan# 46
Delta R.T. 0.003 min
Lab File: VL041548.D
Acq: 19 Aug 2024 14:56

Tgt Ion: 85 Resp: 34506
Ion Ratio Lower Upper
85 100
87 29.5 26.0 39.0

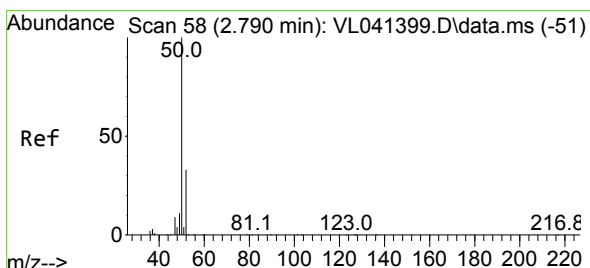
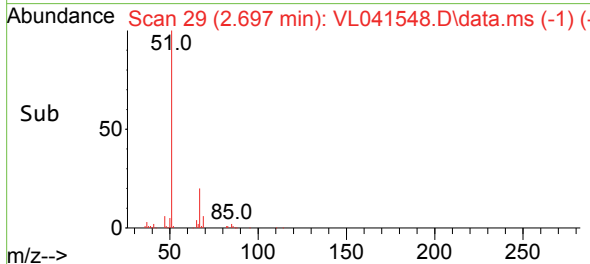
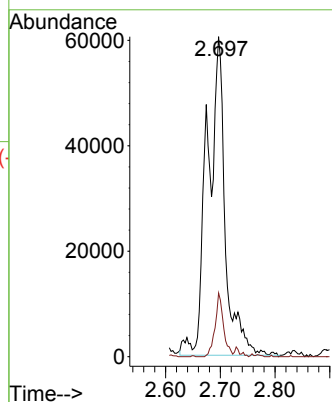
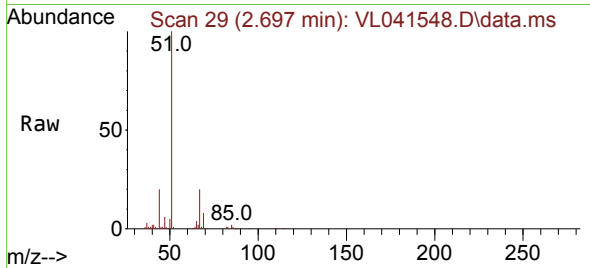




#3
Chlorodifluoromethane
Concen: 1.262 ppbv
RT: 2.697 min Scan# 24
Delta R.T. 0.003 min
Lab File: VL041548.D
Acq: 19 Aug 2024 14:56

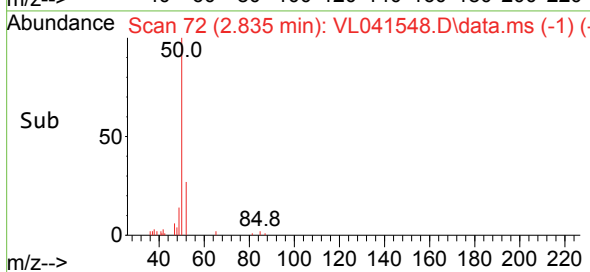
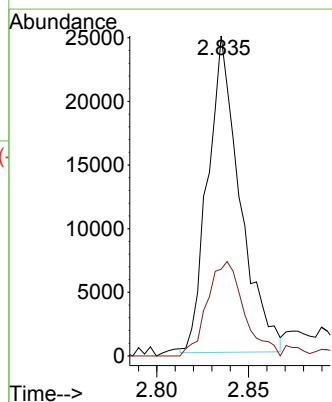
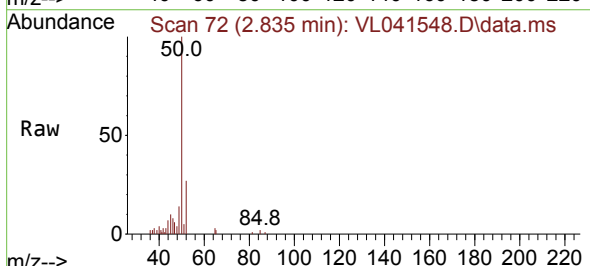
Instrument :
MSVOA_L
ClientSampleId :
OA1

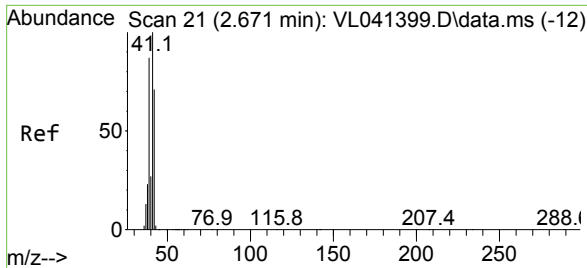
Tgt Ion: 51 Resp: 137815
Ion Ratio Lower Upper
51 100
67 10.6 14.5 21.7#



#4
Chloromethane
Concen: 0.522 ppbv
RT: 2.835 min Scan# 72
Delta R.T. 0.003 min
Lab File: VL041548.D
Acq: 19 Aug 2024 14:56

Tgt Ion: 50 Resp: 30309
Ion Ratio Lower Upper
50 100
52 27.7 26.1 39.1

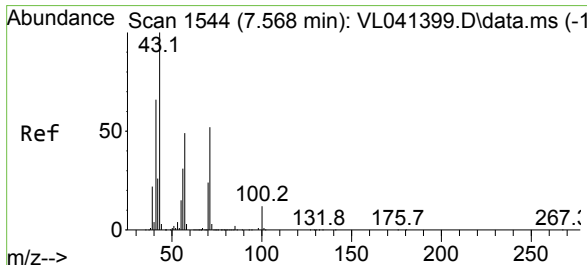
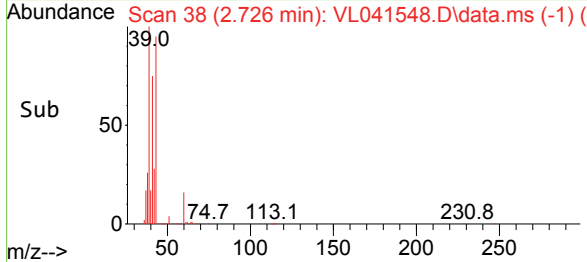
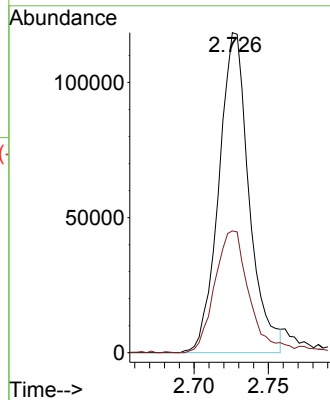
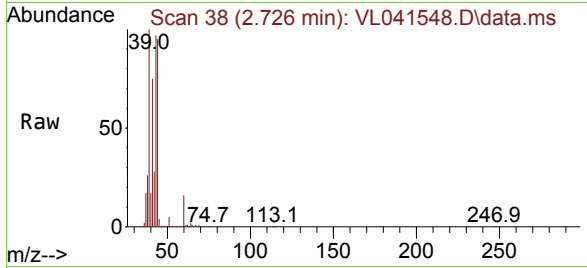




#9
 Propene
 Concen: 3.354 ppbv
 RT: 2.726 min Scan# 31
 Delta R.T. 0.013 min
 Lab File: VL041548.D
 Acq: 19 Aug 2024 14:56

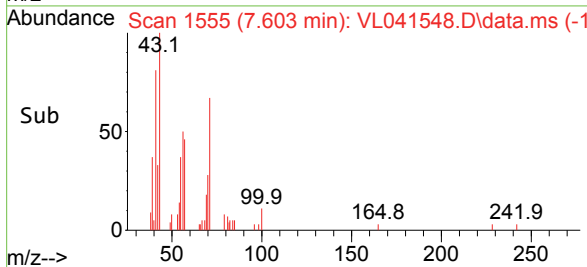
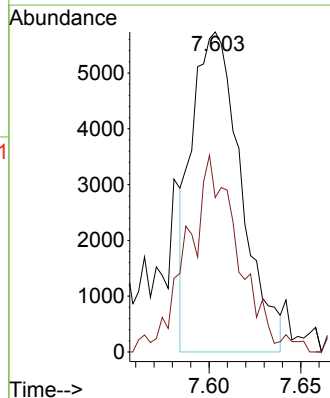
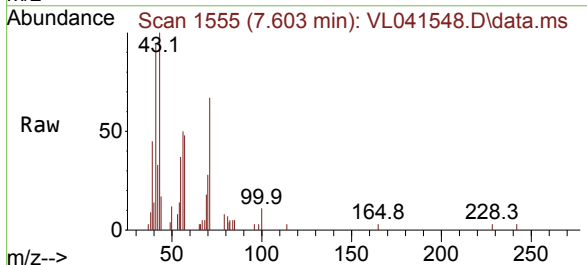
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

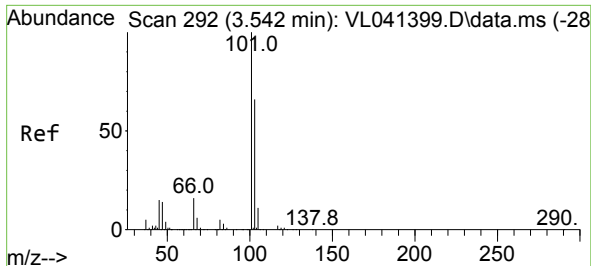
Tgt Ion: 41 Resp: 168272
 Ion Ratio Lower Upper
 41 100
 42 44.8 55.9 83.9#



#10
 Heptane
 Concen: 0.095 ppbv
 RT: 7.603 min Scan# 1555
 Delta R.T. 0.007 min
 Lab File: VL041548.D
 Acq: 19 Aug 2024 14:56

Tgt Ion: 43 Resp: 10703
 Ion Ratio Lower Upper
 43 100
 57 66.8 40.5 60.7#

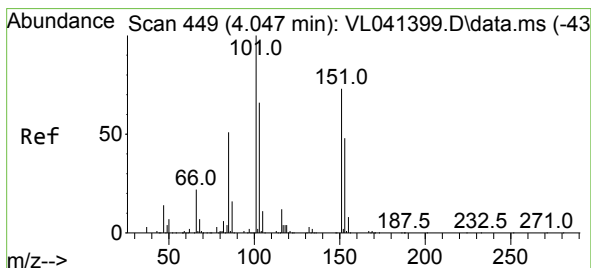
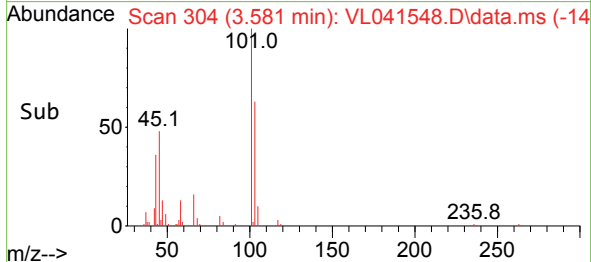
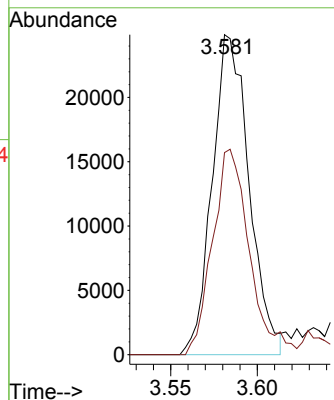
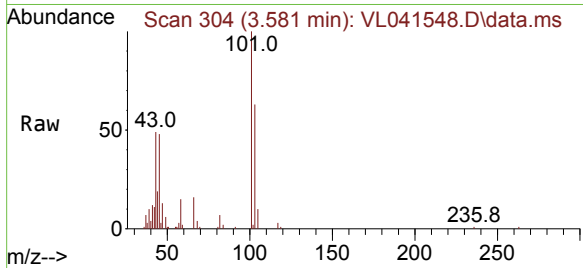




#11
 Trichlorofluoromethane
 Concen: 0.262 ppbv
 RT: 3.581 min Scan# 304
 Delta R.T. 0.000 min
 Lab File: VL041548.D
 Acq: 19 Aug 2024 14:56

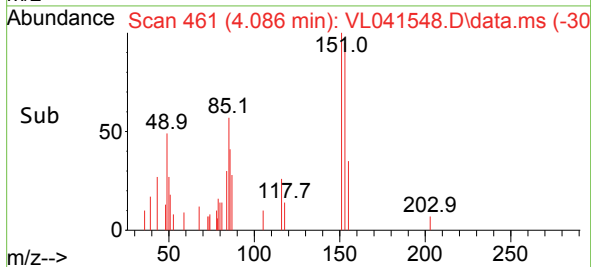
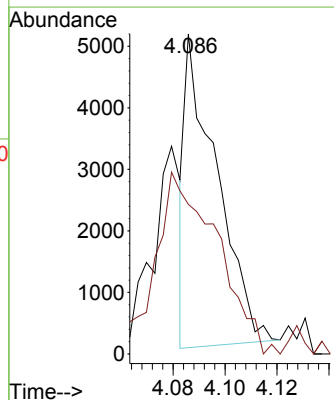
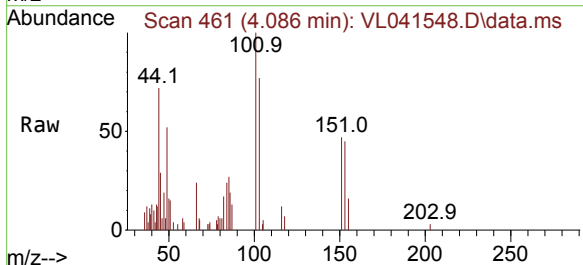
Instrument :
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 ClientSampleId :
 OA1

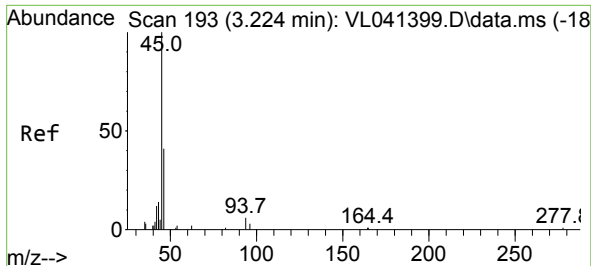
Tgt Ion:101 Resp: 36710
 Ion Ratio Lower Upper
 101 100
 103 63.1 52.6 79.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.043 ppbv
 RT: 4.086 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL041548.D
 Acq: 19 Aug 2024 14:56

Tgt Ion:101 Resp: 4306
 Ion Ratio Lower Upper
 101 100
 151 0.0 59.4 89.2#

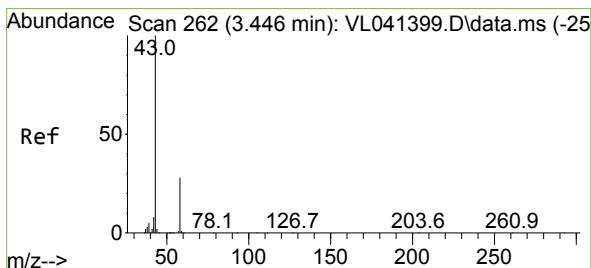
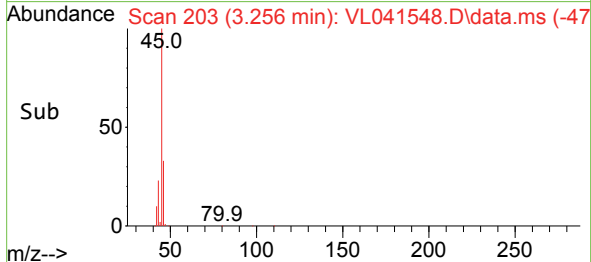
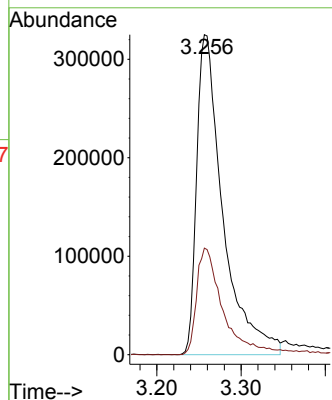
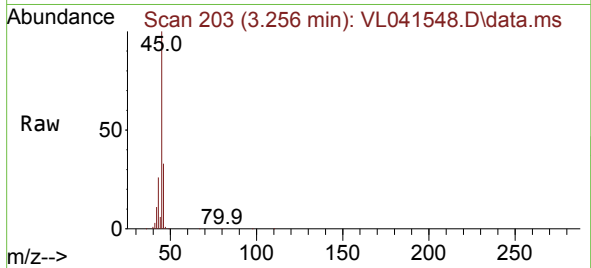




#13
Ethanol
Concen: 156.742 ppbv
RT: 3.256 min Scan# 203
Delta R.T. 0.000 min
Lab File: VL041548.D
Acq: 19 Aug 2024 14:56

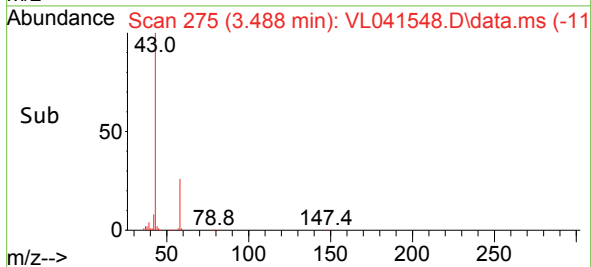
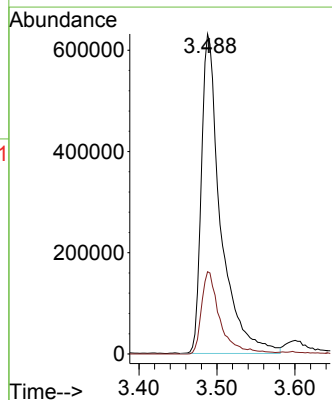
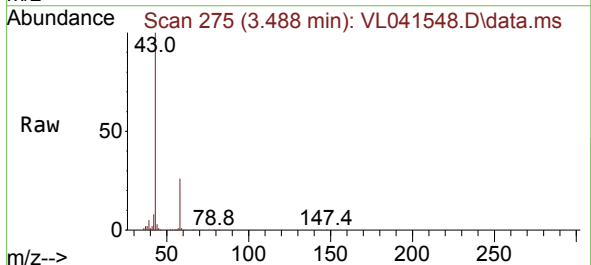
Instrument :
MSVOA_L
ClientSampleId :
OA1

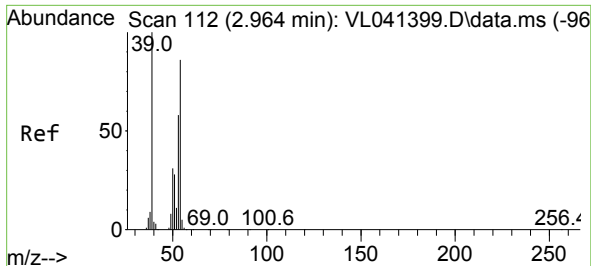
Tgt Ion: 45 Resp: 702772
Ion Ratio Lower Upper
45 100
46 35.5 13.4 53.4



#15
Acetone
Concen: 10.412 ppbv
RT: 3.488 min Scan# 275
Delta R.T. 0.003 min
Lab File: VL041548.D
Acq: 19 Aug 2024 14:56

Tgt Ion: 43 Resp: 1085173
Ion Ratio Lower Upper
43 100
58 26.1 21.4 32.2

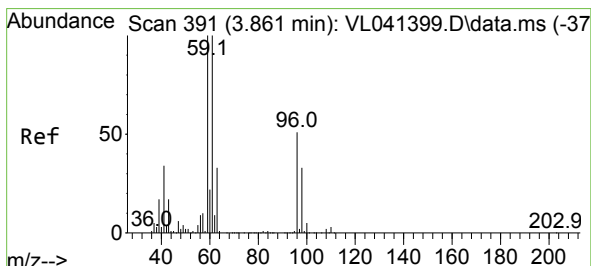
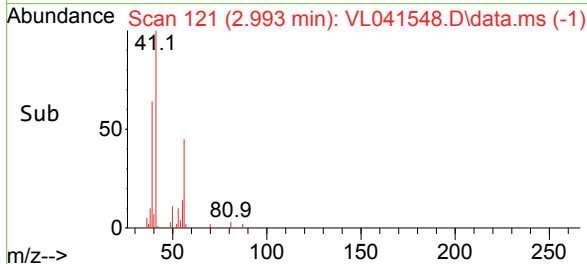
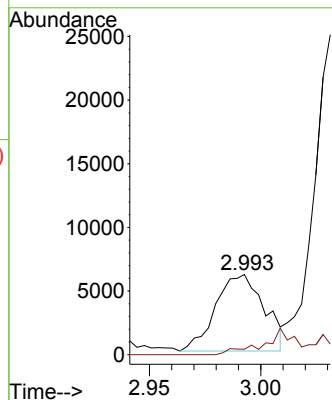
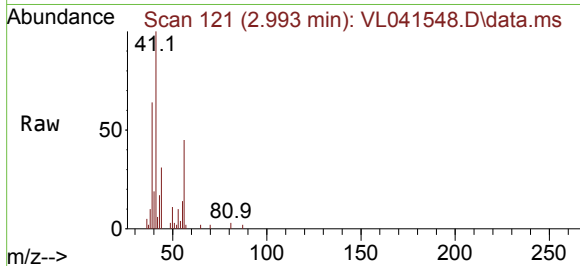




#16
1,3-Butadiene
Concen: 0.164 ppbv
RT: 2.993 min Scan# 11
Delta R.T. -0.010 min
Lab File: VL041548.D
Acq: 19 Aug 2024 14:56

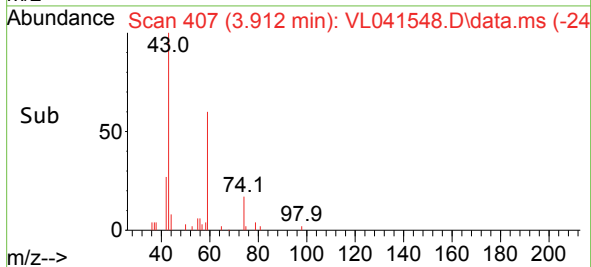
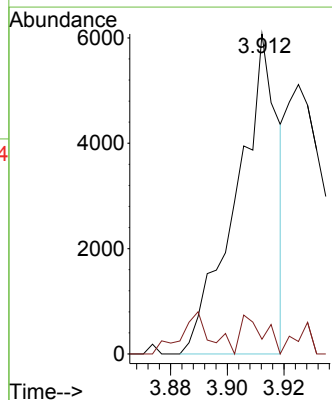
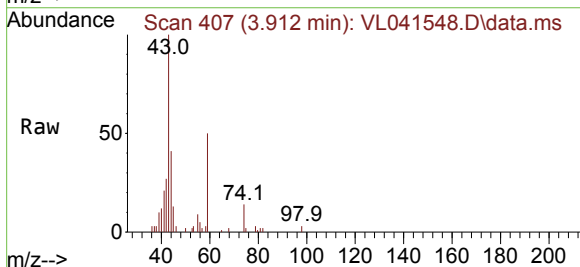
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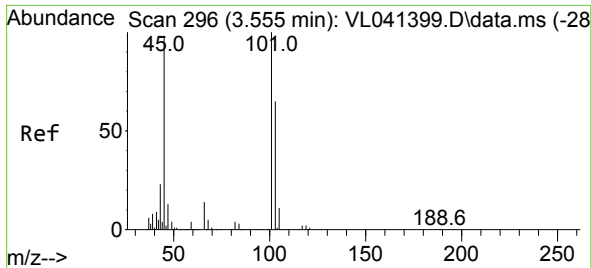
Tgt Ion: 39 Resp: 9137
Ion Ratio Lower Upper
39 100
54 36.6 62.5 93.7#



#17
tert-Butyl alcohol
Concen: 0.065 ppbv
RT: 3.912 min Scan# 407
Delta R.T. 0.019 min
Lab File: VL041548.D
Acq: 19 Aug 2024 14:56

Tgt Ion: 59 Resp: 6151
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#





#19

Isopropyl Alcohol

Concen: 0.221 ppbv

RT: 3.626 min Scan# 318

Delta R.T. 0.036 min

Lab File: VL041548.D

Acq: 19 Aug 2024 14:56

Instrument :

MSVOA_L

ClientSampleId :

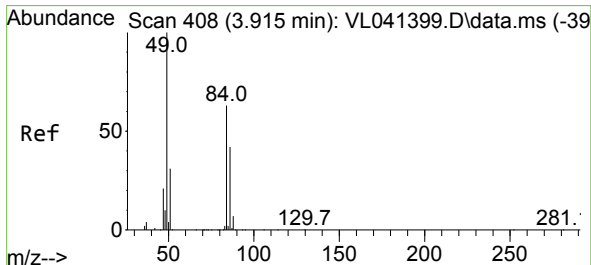
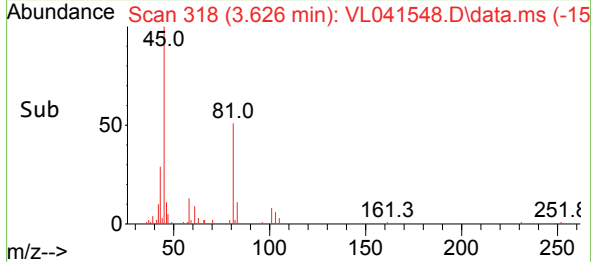
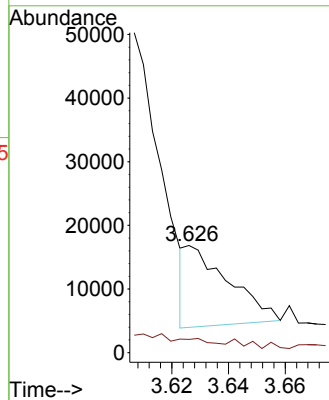
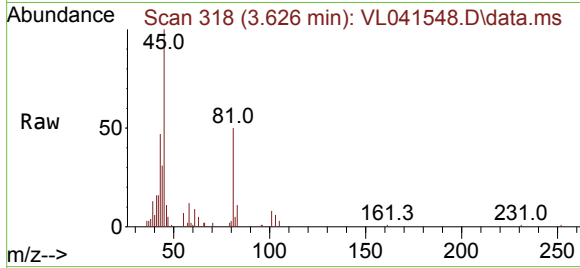
OA1

Tgt Ion: 45 Resp: 13489

Ion Ratio Lower Upper

45 100

58 0.0 1.9 2.9#



#20

Methylene Chloride

Concen: 9.843 ppbv

RT: 3.954 min Scan# 420

Delta R.T. 0.003 min

Lab File: VL041548.D

Acq: 19 Aug 2024 14:56

Tgt Ion: 84 Resp: 382553

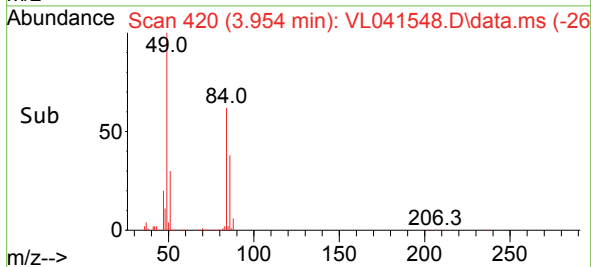
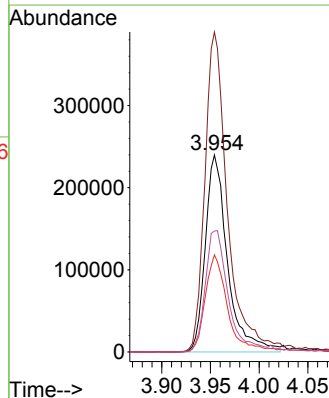
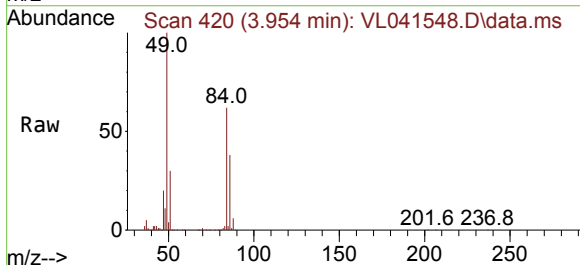
Ion Ratio Lower Upper

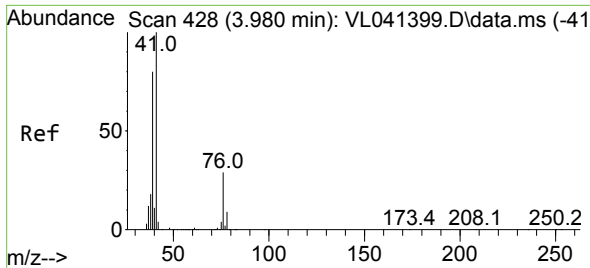
84 100

49 162.3 126.6 190.0

51 49.3 38.6 58.0

86 61.4 53.0 79.4

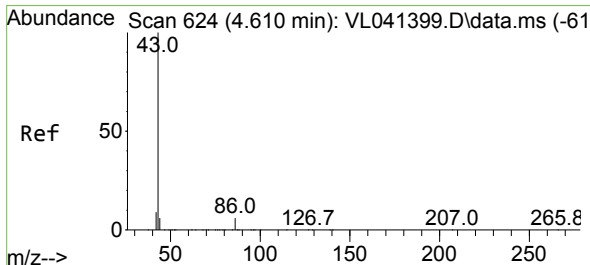
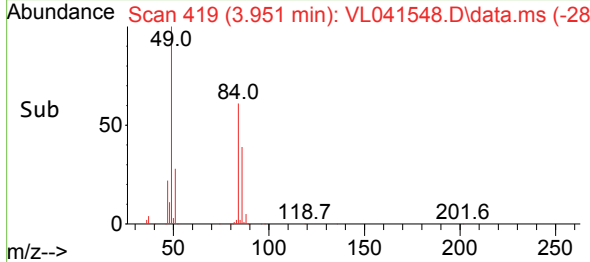
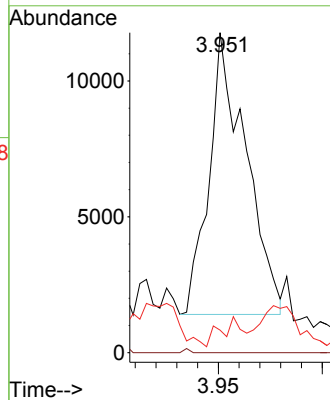
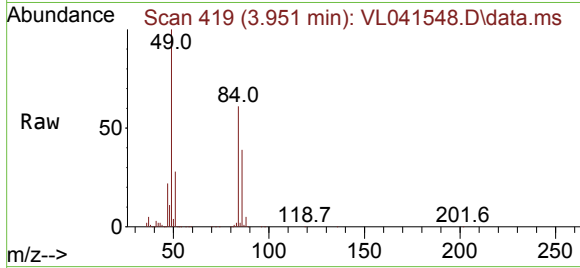




#21
 Allyl Chloride
 Concen: 0.187 ppbv
 RT: 3.951 min Scan# 41
 Delta R.T. -0.061 min
 Lab File: VL041548.D
 Acq: 19 Aug 2024 14:56

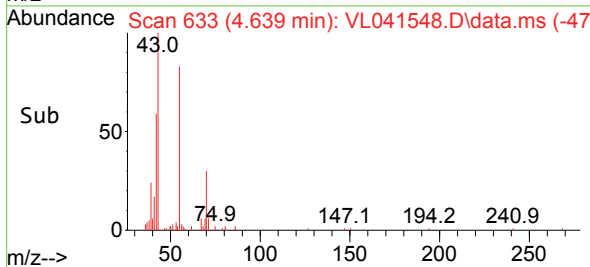
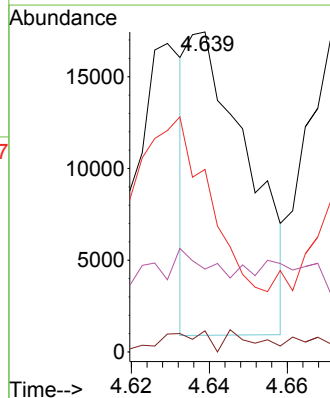
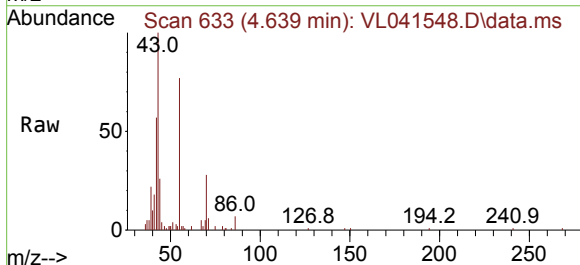
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

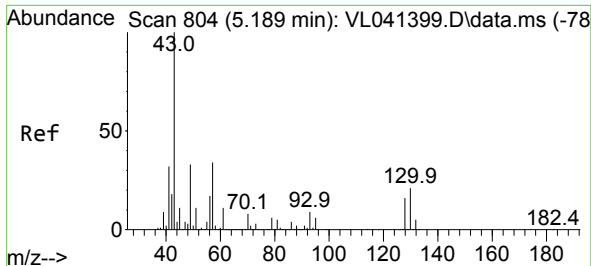
Tgt Ion: 41 Resp: 12777
 Ion Ratio Lower Upper
 41 100
 76 0.0 23.7 35.5#
 39 20.8 64.3 96.5#



#23
 Vinyl Acetate
 Concen: 0.221 ppbv
 RT: 4.639 min Scan# 633
 Delta R.T. -0.003 min
 Lab File: VL041548.D
 Acq: 19 Aug 2024 14:56

Tgt Ion: 43 Resp: 17586
 Ion Ratio Lower Upper
 43 100
 86 7.9 4.6 6.8#
 42 52.7 7.9 11.9#
 44 0.0 4.2 6.4#



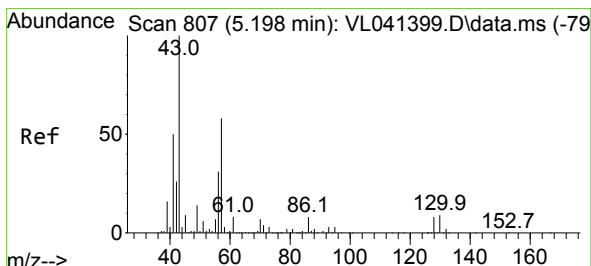
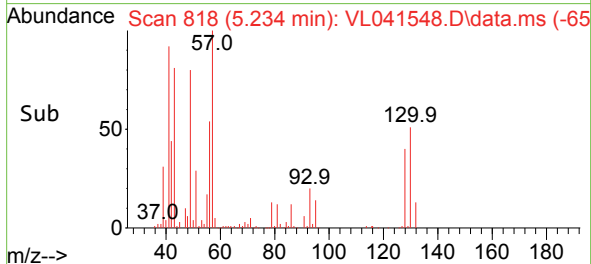
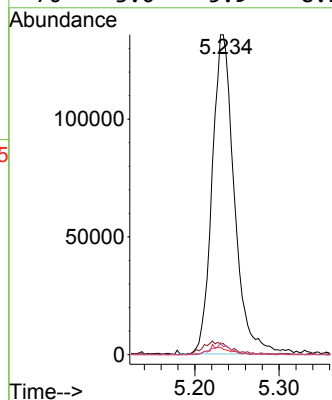
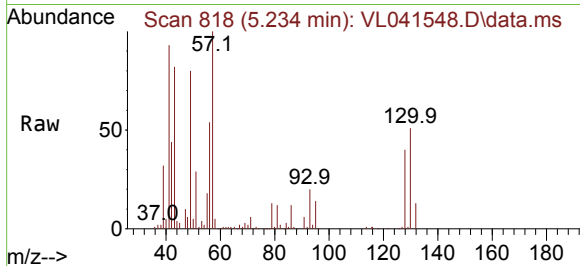


#25
Ethyl Acetate
Concen: 1.193 ppbv
RT: 5.234 min Scan# 818
Delta R.T. 0.013 min
Lab File: VL041548.D
Acq: 19 Aug 2024 14:56

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 43 Resp: 246982

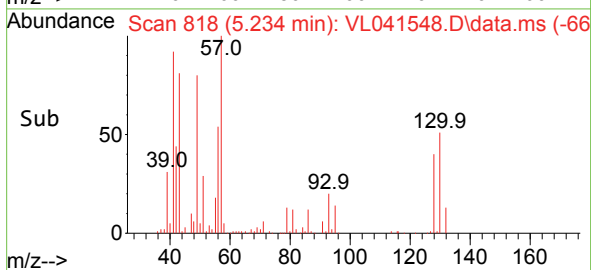
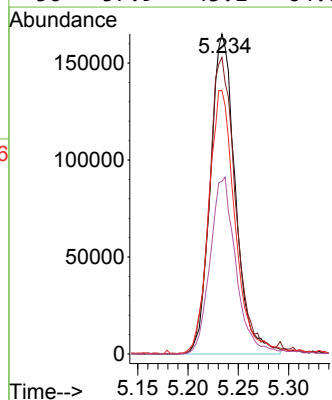
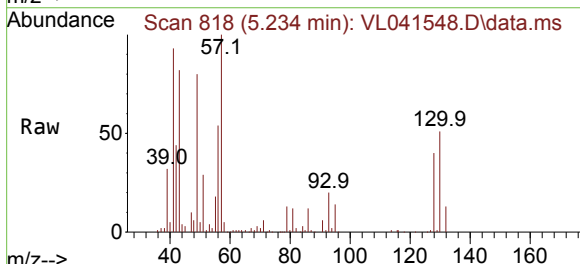
Ion	Ratio	Lower	Upper
43	100		
45	5.3	8.5	12.7#
61	2.6	8.0	12.0#
70	3.0	5.9	8.9#

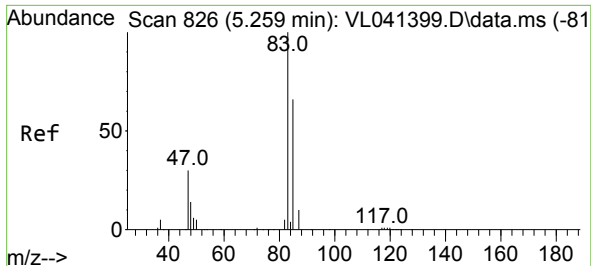


#26
Hexane
Concen: 3.311 ppbv
RT: 5.234 min Scan# 818
Delta R.T. 0.003 min
Lab File: VL041548.D
Acq: 19 Aug 2024 14:56

Tgt Ion: 57 Resp: 284433

Ion	Ratio	Lower	Upper
57	100		
41	99.9	74.0	111.0
43	89.1	193.6	290.4#
56	57.9	43.1	64.7





#29

Chloroform

Concen: 0.125 ppbv

RT: 5.295 min Scan# 81

Delta R.T. 0.000 min

Lab File: VL041548.D

Acq: 19 Aug 2024 14:56

Instrument :

MSVOA_L

ClientSampleId :

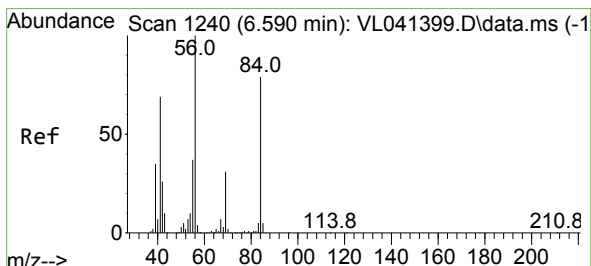
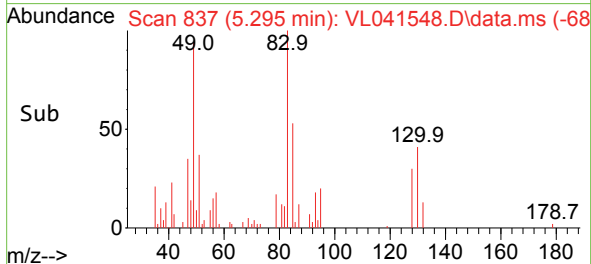
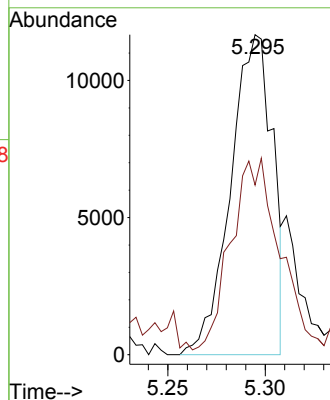
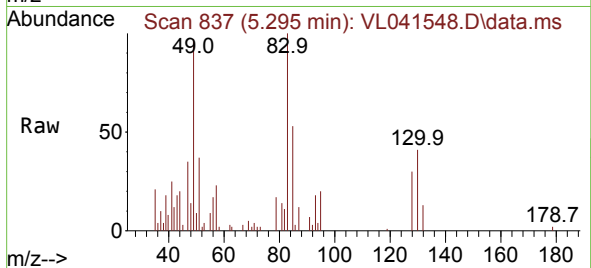
OA1

Tgt Ion: 83 Resp: 17509

Ion Ratio Lower Upper

83 100

85 54.0 53.1 79.7



#30

Cyclohexane

Concen: 0.035 ppbv

RT: 6.626 min Scan# 1251

Delta R.T. 0.003 min

Lab File: VL041548.D

Acq: 19 Aug 2024 14:56

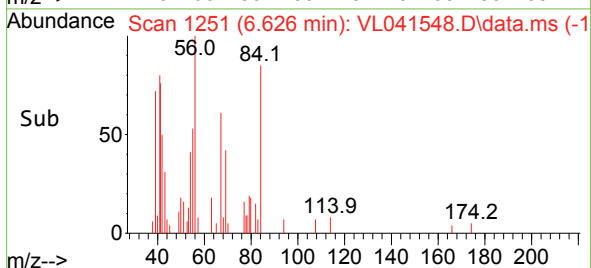
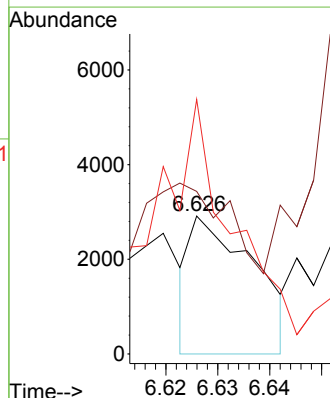
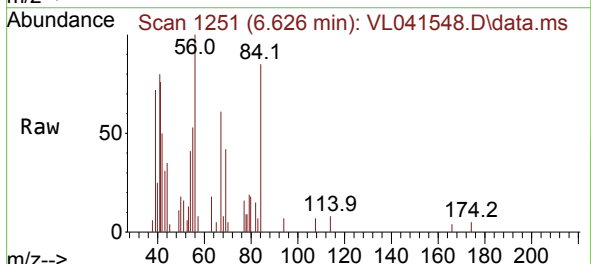
Tgt Ion: 84 Resp: 2470

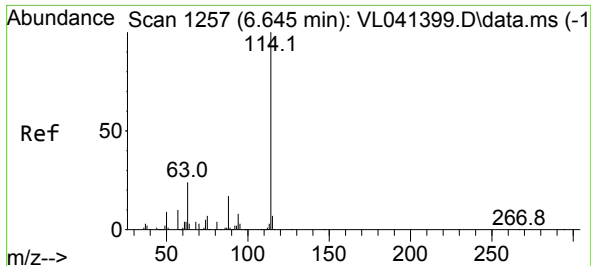
Ion Ratio Lower Upper

84 100

56 0.0 111.2 166.8#

41 332.3 70.3 105.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.674 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL041548.D

Acq: 19 Aug 2024 14:56

Instrument :

MSVOA_L

ClientSampleId :

OA1

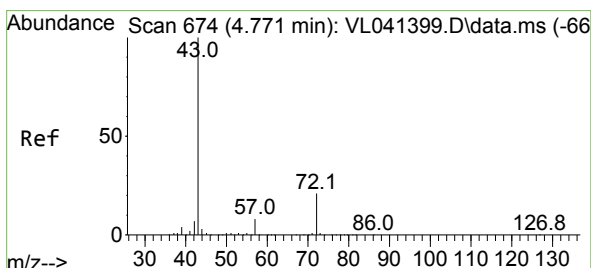
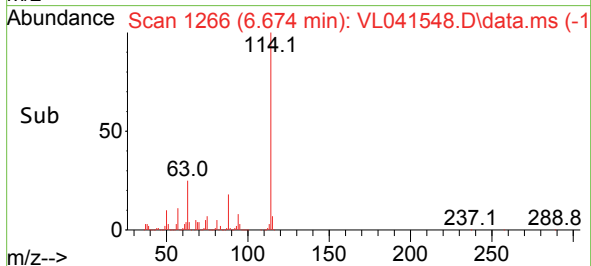
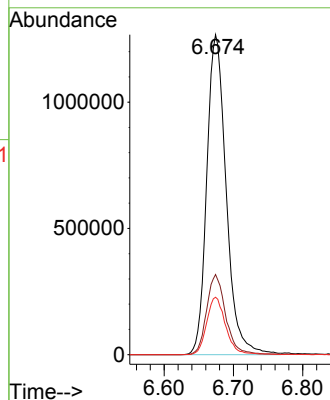
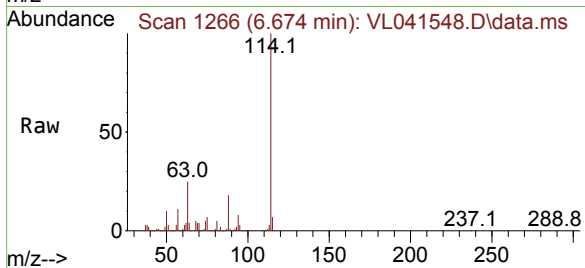
Tgt Ion:114 Resp: 2464987

Ion Ratio Lower Upper

114 100

63 24.9 20.3 30.5

88 17.7 14.3 21.5



#34

2-Butanone

Concen: 0.442 ppbv

RT: 4.812 min Scan# 687

Delta R.T. 0.010 min

Lab File: VL041548.D

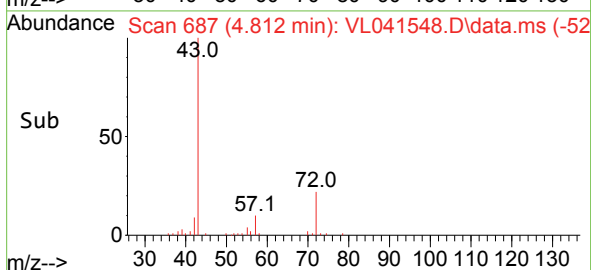
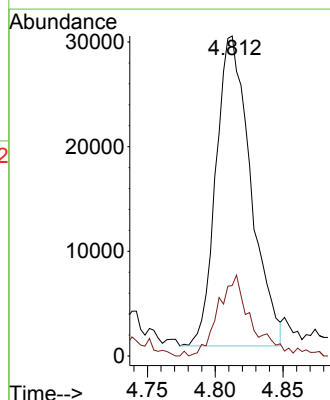
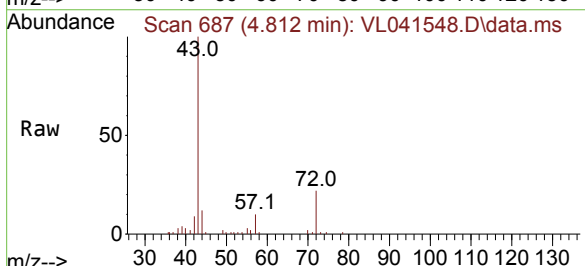
Acq: 19 Aug 2024 14:56

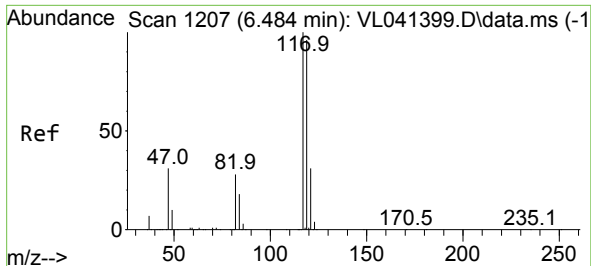
Tgt Ion: 43 Resp: 52719

Ion Ratio Lower Upper

43 100

72 26.1 17.3 25.9#

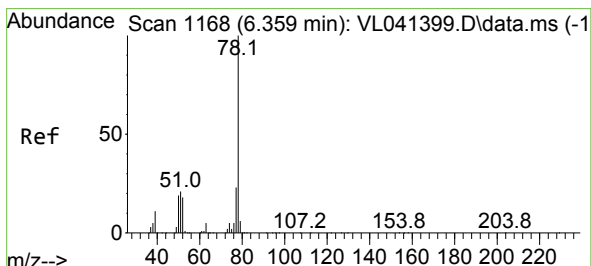
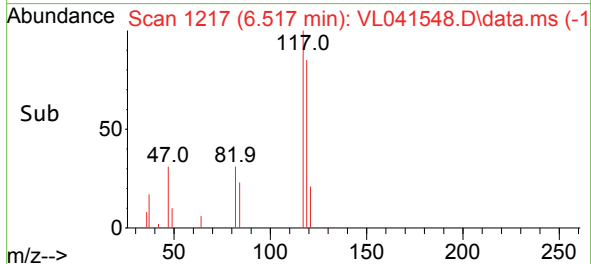
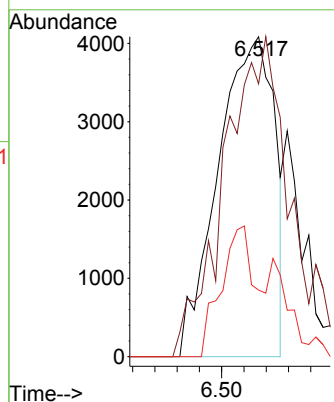
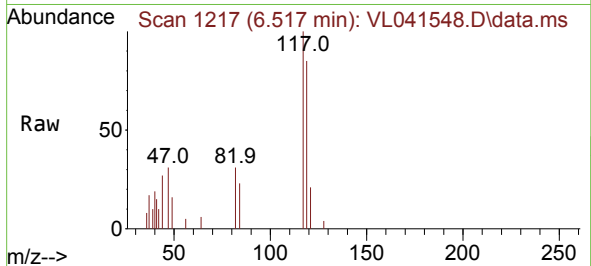




#35
Carbon Tetrachloride
Concen: 0.053 ppbv
RT: 6.517 min Scan# 1177
Delta R.T. 0.003 min
Lab File: VL041548.D
Acq: 19 Aug 2024 14:56

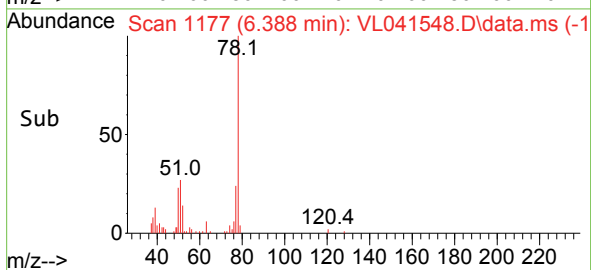
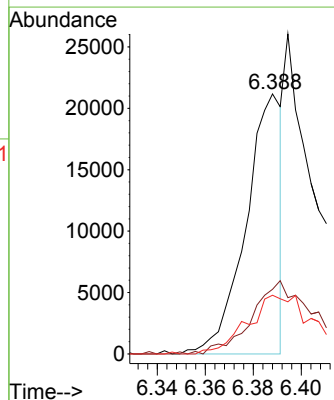
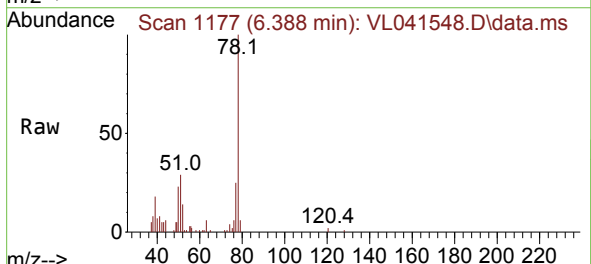
Instrument :
MSVOA_L
ClientSampleId :
OA1

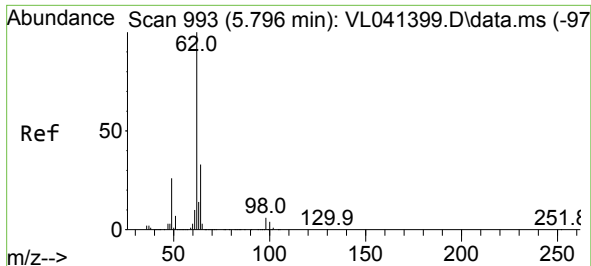
Tgt Ion:117 Resp: 7195
Ion Ratio Lower Upper
117 100
119 77.6 76.6 115.0
121 20.8 25.1 37.7#



#36
Benzene
Concen: 0.122 ppbv
RT: 6.388 min Scan# 1177
Delta R.T. -0.003 min
Lab File: VL041548.D
Acq: 19 Aug 2024 14:56

Tgt Ion: 78 Resp: 21950
Ion Ratio Lower Upper
78 100
77 24.3 18.1 27.1
50 22.8 15.5 23.3





#37

1,2-Dichloroethane

Concen: 0.215 ppbv

RT: 5.829 min Scan# 1003

Delta R.T. 0.003 min

Lab File: VL041548.D

Acq: 19 Aug 2024 14:56

Instrument :

MSVOA_L

ClientSampleId :

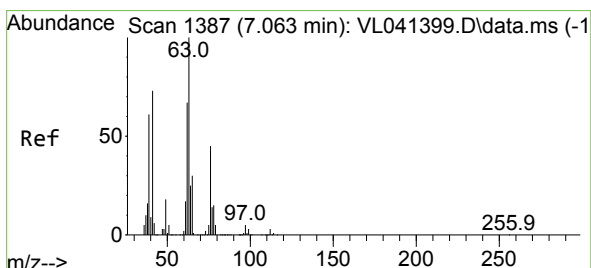
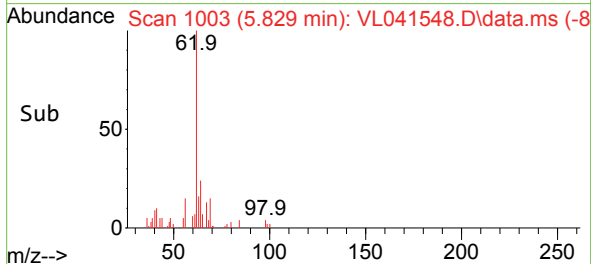
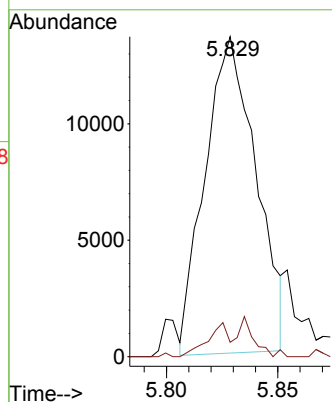
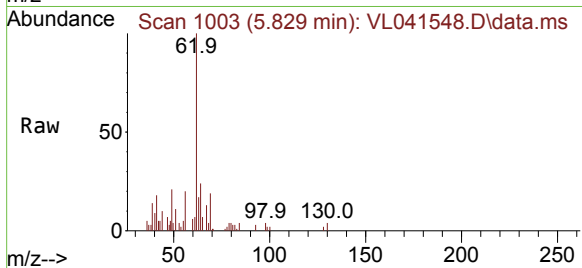
OA1

Tgt Ion: 62 Resp: 21674

Ion Ratio Lower Upper

62 100

98 8.6 5.0 7.4#



#39

1,2-Dichloropropane

Concen: 8.793 ppbv

RT: 6.674 min Scan# 1266

Delta R.T. -0.421 min

Lab File: VL041548.D

Acq: 19 Aug 2024 14:56

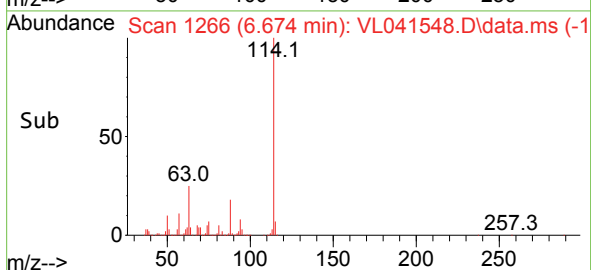
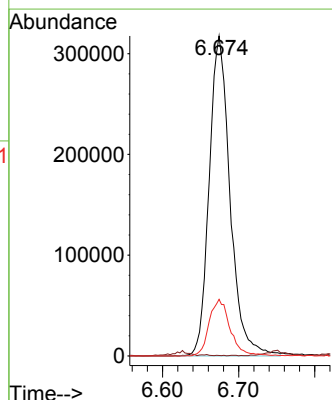
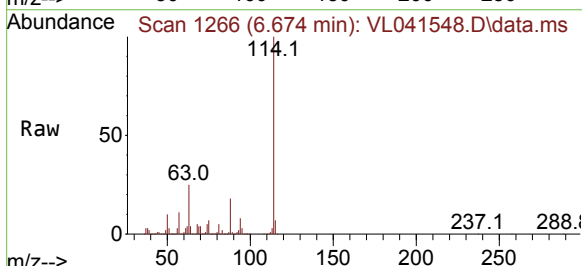
Tgt Ion: 63 Resp: 606323

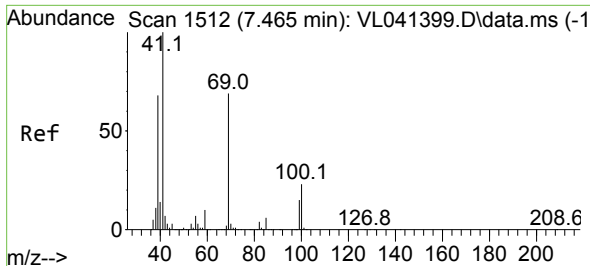
Ion Ratio Lower Upper

63 100

41 0.0 58.3 87.5#

62 17.7 53.9 80.9#

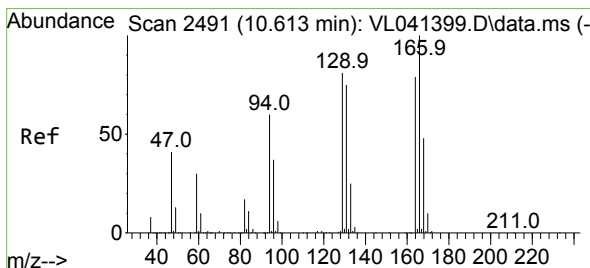
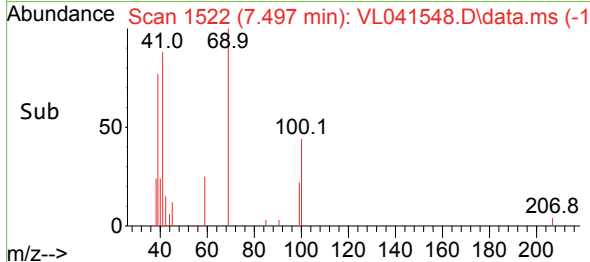
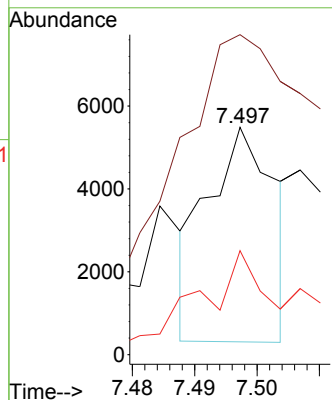
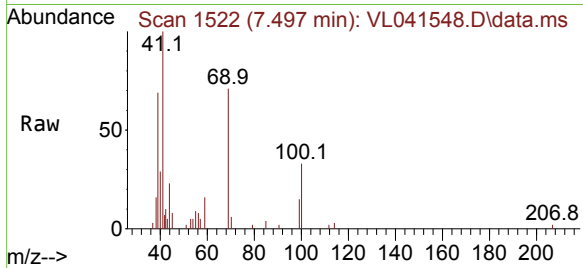




#43
Methyl Methacrylate
Concen: 0.060 ppbv
RT: 7.497 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL041548.D
Acq: 19 Aug 2024 14:56

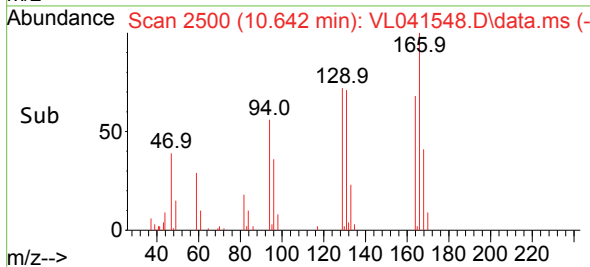
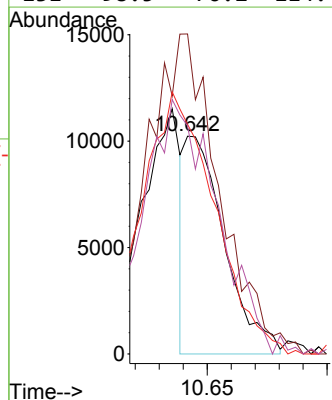
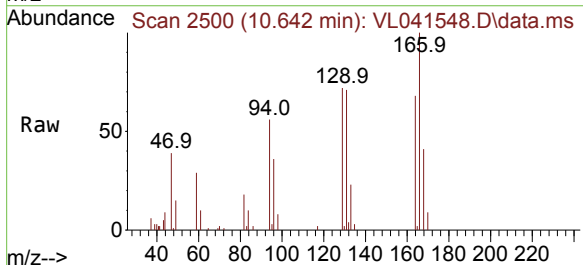
Instrument :
MSVOA_L
ClientSampleId :
OA1

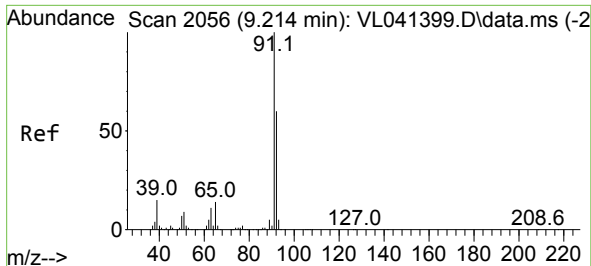
Tgt Ion: 69 Resp: 3884
Ion Ratio Lower Upper
69 100
41 469.5 118.7 178.1#
100 92.2 27.0 40.4#



#52
Tetrachloroethene
Concen: 0.168 ppbv
RT: 10.642 min Scan# 2500
Delta R.T. 0.007 min
Lab File: VL041548.D
Acq: 19 Aug 2024 14:56

Tgt Ion: 164 Resp: 11688
Ion Ratio Lower Upper
164 100
166 140.3 101.1 151.7
129 102.8 81.7 122.5
131 98.5 76.2 114.4

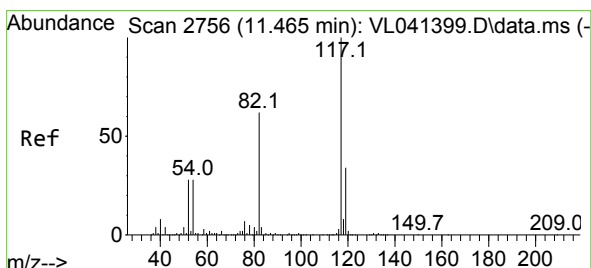
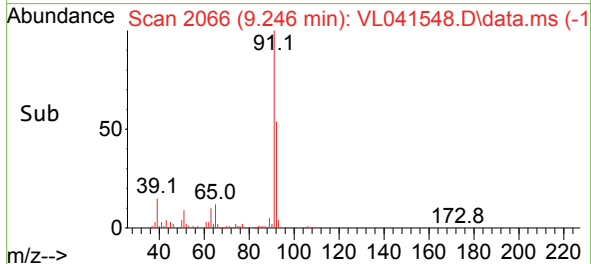
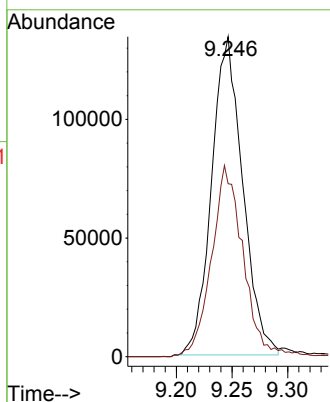
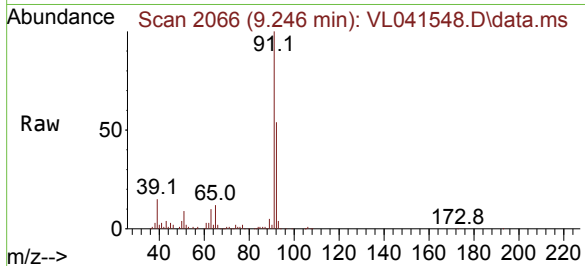




#53
Toluene
Concen: 1.298 ppbv
RT: 9.246 min Scan# 2056
Delta R.T. 0.007 min
Lab File: VL041548.D
Acq: 19 Aug 2024 14:56

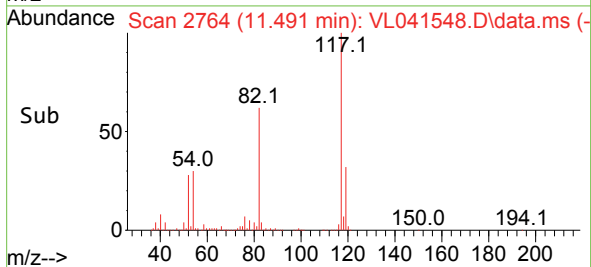
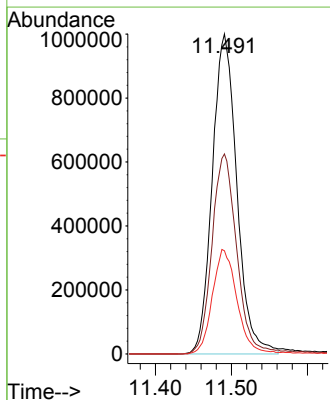
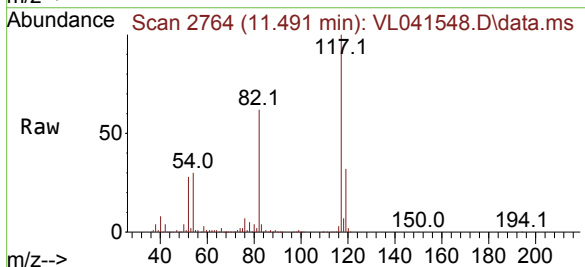
Instrument :
MSVOA_L
ClientSampleId :
OA1

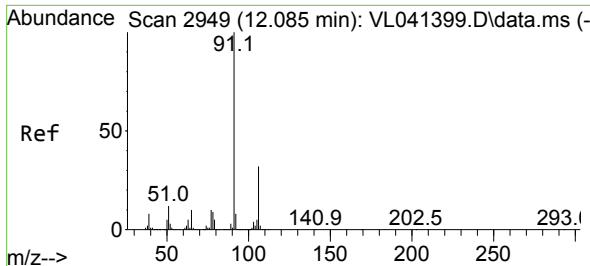
Tgt Ion: 91 Resp: 260499
Ion Ratio Lower Upper
91 100
92 61.7 48.7 73.1



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.491 min Scan# 2764
Delta R.T. 0.000 min
Lab File: VL041548.D
Acq: 19 Aug 2024 14:56

Tgt Ion: 117 Resp: 2247044
Ion Ratio Lower Upper
117 100
82 64.2 51.0 76.6
119 33.1 45.2 67.8#

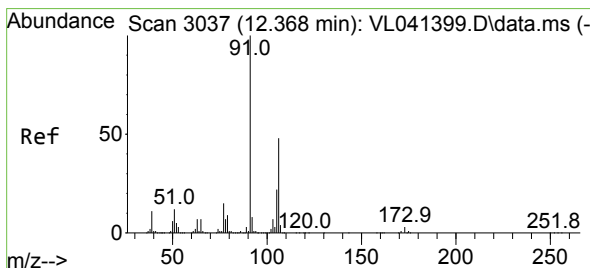
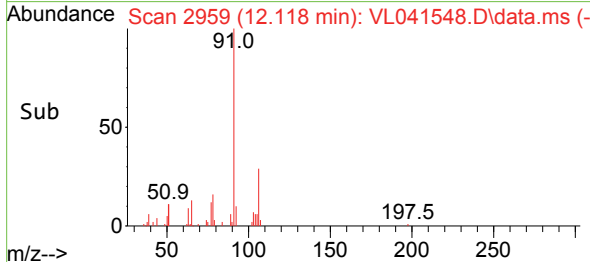
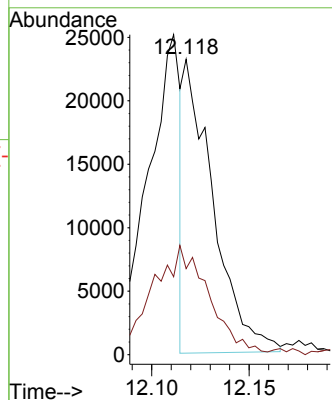
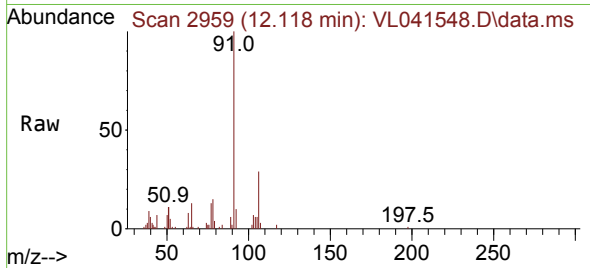




#58
Ethyl Benzene
Concen: 0.094 ppbv
RT: 12.118 min Scan# 2949
Delta R.T. 0.007 min
Lab File: VL041548.D
Acq: 19 Aug 2024 14:56

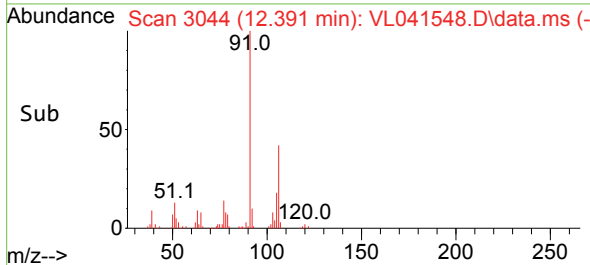
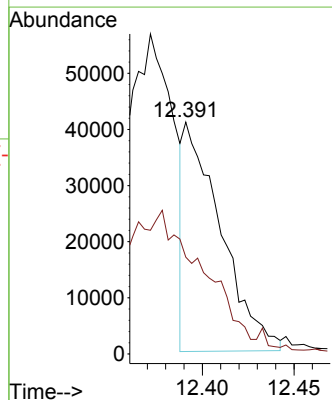
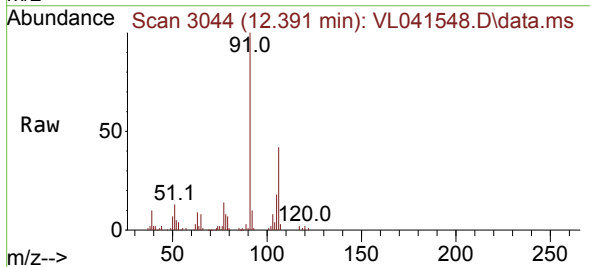
Instrument :
MSVOA_L
ClientSampleId :
OA1

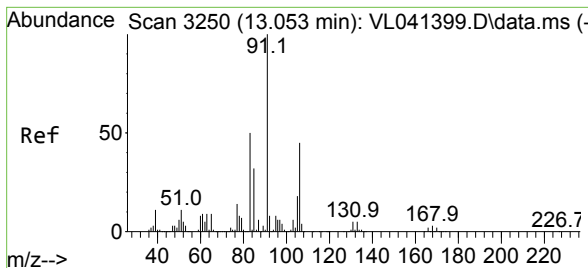
Tgt Ion: 91 Resp: 24258
Ion Ratio Lower Upper
91 100
106 27.9 25.8 38.8



#59
m/p-Xylene
Concen: 0.257 ppbv
RT: 12.391 min Scan# 3044
Delta R.T. -0.003 min
Lab File: VL041548.D
Acq: 19 Aug 2024 14:56

Tgt Ion: 91 Resp: 57534
Ion Ratio Lower Upper
91 100
106 0.0 36.3 54.5#

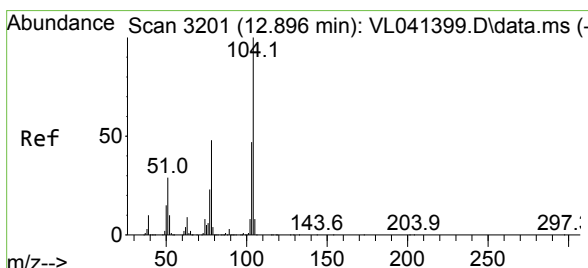
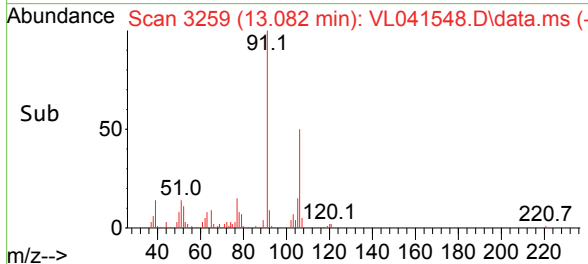
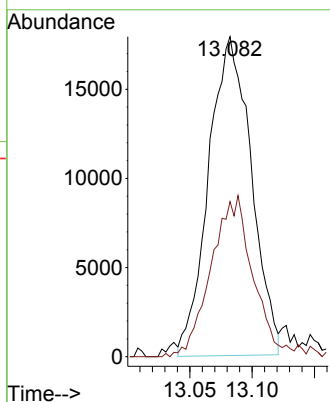
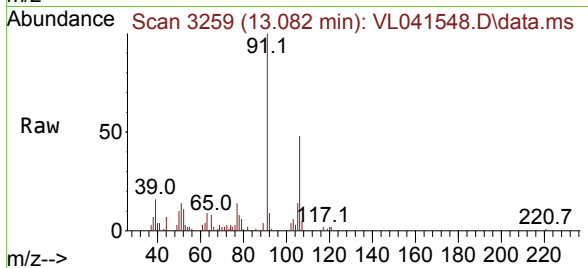




#60
o-Xylene
Concen: 0.202 ppbv
RT: 13.082 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL041548.D
Acq: 19 Aug 2024 14:56

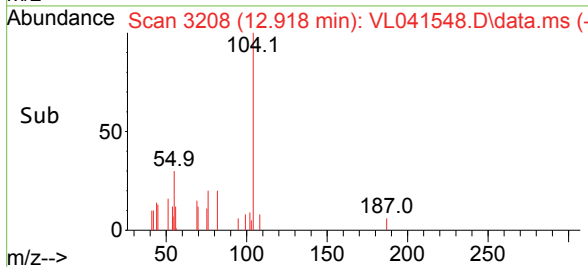
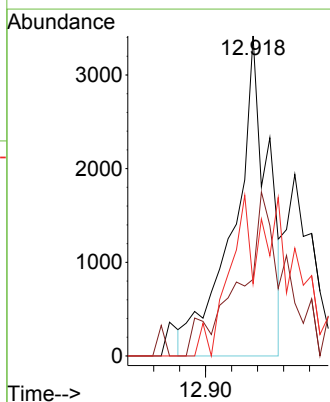
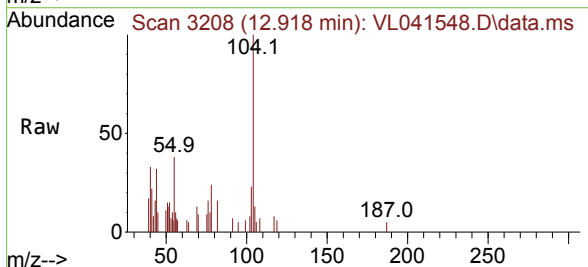
Instrument :
MSVOA_L
ClientSampleId :
OA1

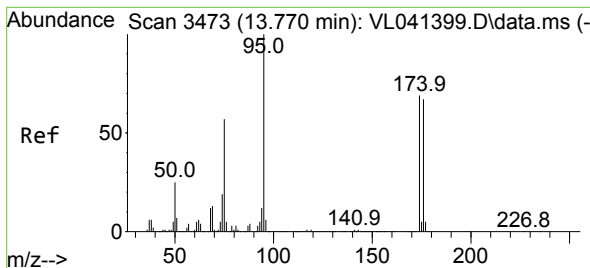
Tgt Ion: 91 Resp: 42620
Ion Ratio Lower Upper
91 100
106 51.2 23.1 69.3



#61
Styrene
Concen: 0.033 ppbv
RT: 12.918 min Scan# 3208
Delta R.T. 0.000 min
Lab File: VL041548.D
Acq: 19 Aug 2024 14:56

Tgt Ion: 104 Resp: 3120
Ion Ratio Lower Upper
104 100
78 89.7 40.8 61.2#
103 94.8 38.2 57.4#

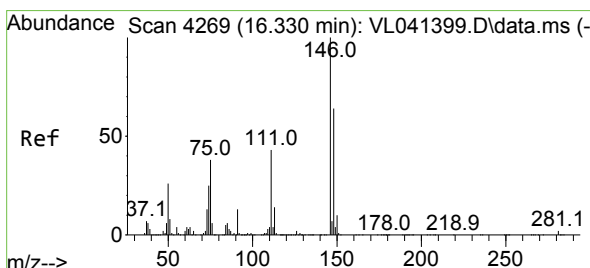
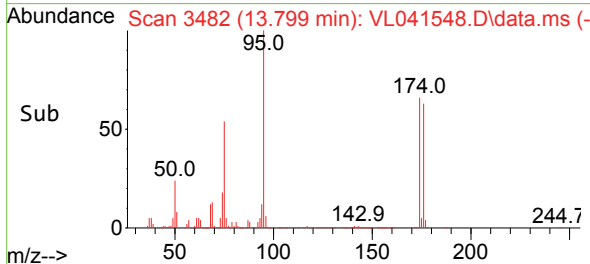
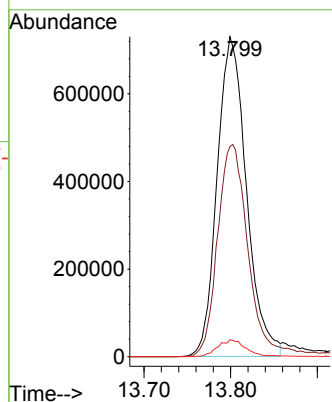
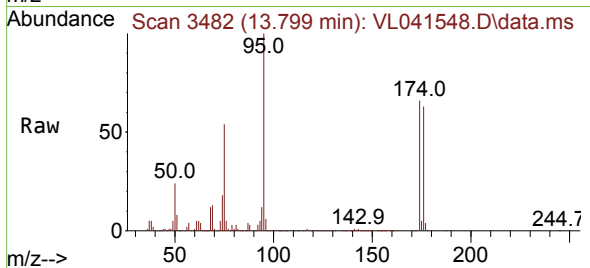




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.926 ppbv
 RT: 13.799 min Scan# 3473
 Delta R.T. 0.000 min
 Lab File: VL041548.D
 Acq: 19 Aug 2024 14:56

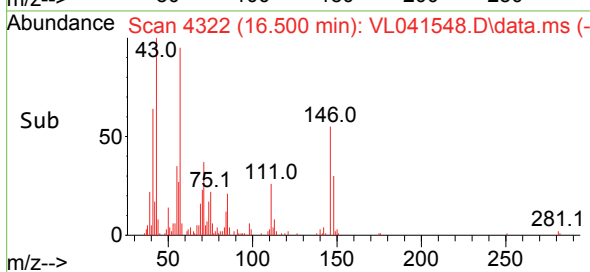
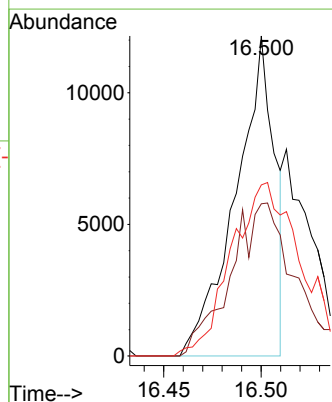
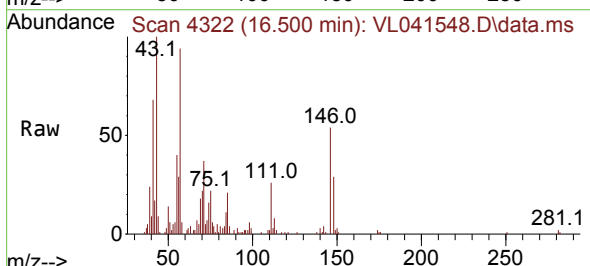
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

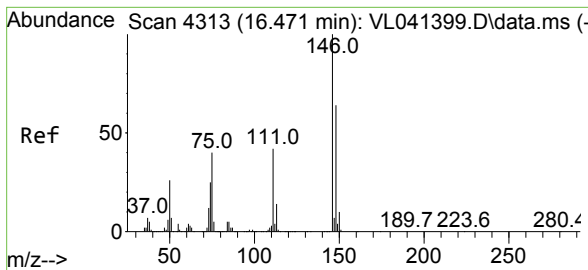
Tgt Ion: 95 Resp: 1716409
 Ion Ratio Lower Upper
 95 100
 174 71.1 56.3 84.5
 175 5.4 4.0 6.0



#75
 1,3-Dichlorobenzene
 Concen: 0.107 ppbv
 RT: 16.500 min Scan# 4322
 Delta R.T. 0.145 min
 Lab File: VL041548.D
 Acq: 19 Aug 2024 14:56

Tgt Ion:146 Resp: 16839
 Ion Ratio Lower Upper
 146 100
 111 86.1 22.6 67.8#
 148 102.9 32.3 96.8#





#76
 1,4-Dichlorobenzene
 Concen: 0.111 ppbv
 RT: 16.500 min Scan# 41
 Delta R.T. 0.007 min
 Lab File: VL041548.D
 Acq: 19 Aug 2024 14:56

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Tgt Ion	Ratio	Lower	Upper
146	100		
111	86.1	22.4	67.0#
148	103.1	33.1	99.5#

