

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082224\
 Data File : VL041587.D
 Acq On : 22 Aug 2024 14:55
 Operator : SY/MD
 Sample : P3710-01DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 23 01:32:44 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 : Fri Aug 23 01:15:26 2024
 Response via : Initial Calibration

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

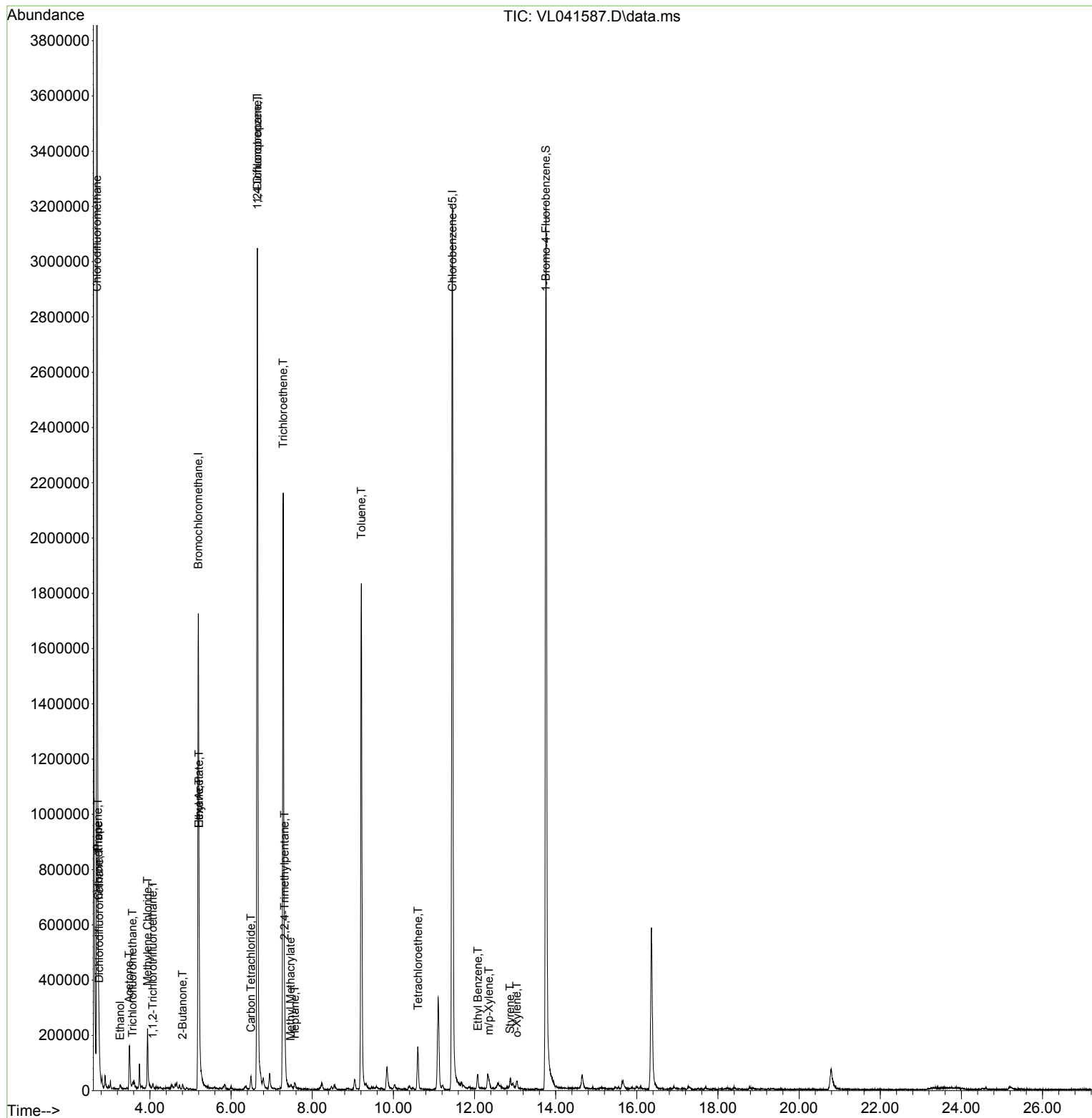
Internal Standards						
1) Bromochloromethane	5.192	49	879355	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.648	114	2277950	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.452	117	2146868	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.761	95	1655989	10.023	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.200%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.748	85	21634	0.143	ppbv	94
3) Chlorodifluoromethane	2.694	51	7007555	66.941	ppbv	96
4) Chloromethane	2.729	50	19991	0.359	ppbv #	82
9) Propene	2.723	41	8805	0.183	ppbv #	50
10) Heptane	7.568	43	4760	0.044	ppbv #	27
11) Trichlorofluoromethane	3.571	101	10050	0.075	ppbv	85
12) 1,1,2-Trichlorotrifluo...	4.070	101	3895	0.040	ppbv #	12
13) Ethanol	3.266	45	13472	3.134	ppbv	71
15) Acetone	3.491	43	150605	1.507	ppbv	99
20) Methylene Chloride	3.944	84	66683	1.790	ppbv	95
25) Ethyl Acetate	5.211	43	61335	0.309	ppbv #	94
26) Hexane	5.211	57	51449	0.625	ppbv #	52
34) 2-Butanone	4.806	43	17477	0.159	ppbv #	80
35) Carbon Tetrachloride	6.488	117	25603	0.204	ppbv	97
38) Trichloroethene	7.285	130	674239	8.842	ppbv	96
39) 1,2-Dichloropropane	6.645	63	555932	8.724	ppbv #	25
43) Methyl Methacrylate	7.468	69	1970	0.033	ppbv #	1
44) 2,2,4-Trimethylpentane	7.317	57	161653	0.581	ppbv	92
52) Tetrachloroethene	10.613	164	11168	0.174	ppbv	91
53) Toluene	9.211	91	1428594	7.705	ppbv	99
58) Ethyl Benzene	12.082	91	15874	0.064	ppbv	89
59) m/p-Xylene	12.352	91	7683	0.036	ppbv #	1
60) o-Xylene	13.040	91	8059	0.040	ppbv #	30
61) Styrene	12.880	104	11438	0.125	ppbv #	24

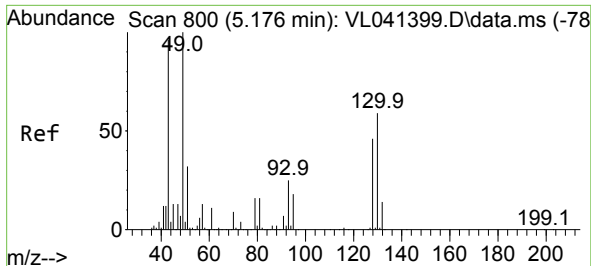
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Aug 23 01:15:26 2024
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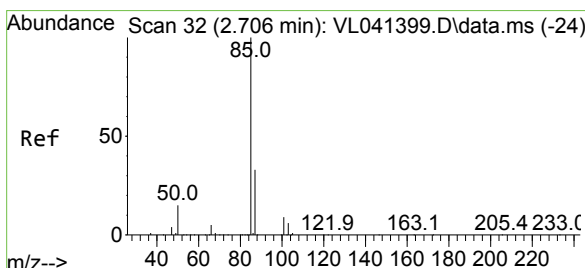
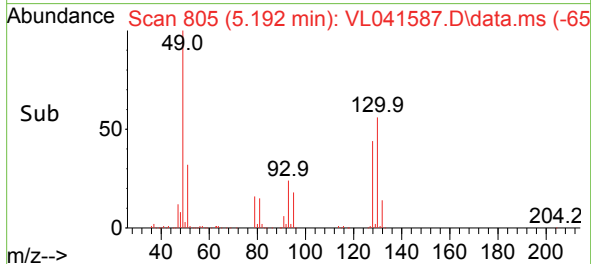
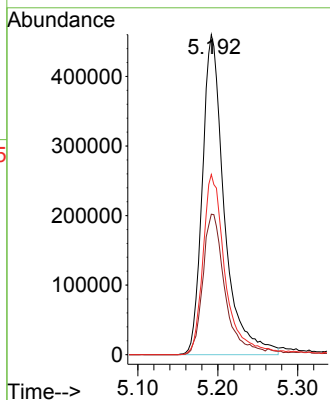
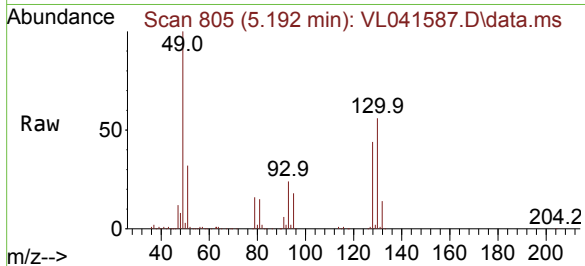




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.192 min Scan# 80
 Delta R.T. -0.000 min
 Lab File: VL041587.D
 Acq: 22 Aug 2024 14:55

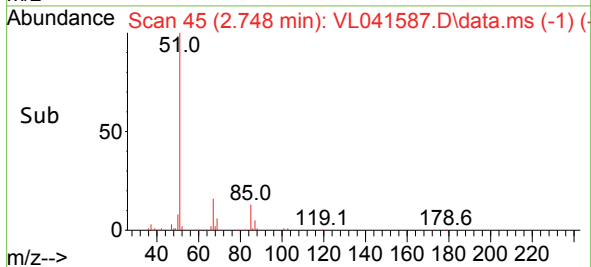
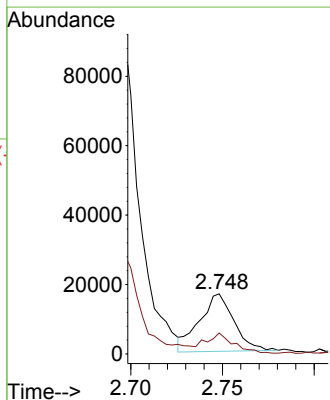
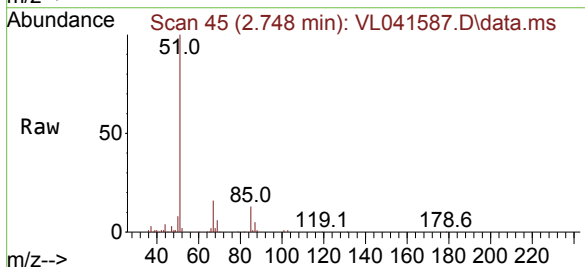
Instrument :
 MSVOA_L
 ClientSampleId :

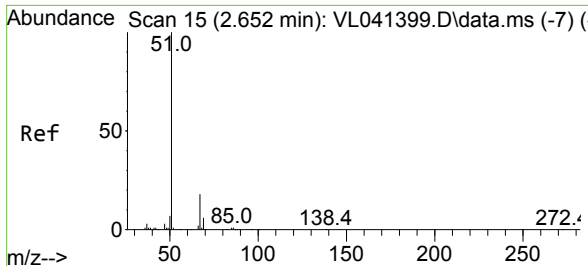
Tgt Ion: 49 Resp: 879355
 Ion Ratio Lower Upper
 49 100
 128 46.1 23.8 71.4
 130 58.6 30.8 92.4



#2
 Dichlorodifluoromethane
 Concen: 0.143 ppbv
 RT: 2.748 min Scan# 45
 Delta R.T. 0.003 min
 Lab File: VL041587.D
 Acq: 22 Aug 2024 14:55

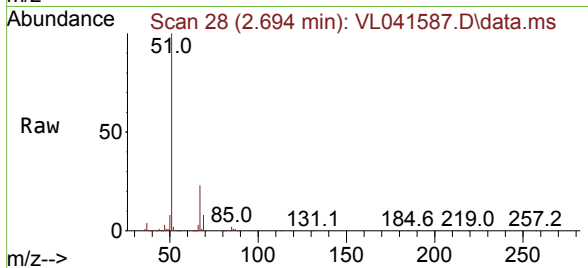
Tgt Ion: 85 Resp: 21634
 Ion Ratio Lower Upper
 85 100
 87 35.7 26.0 39.0



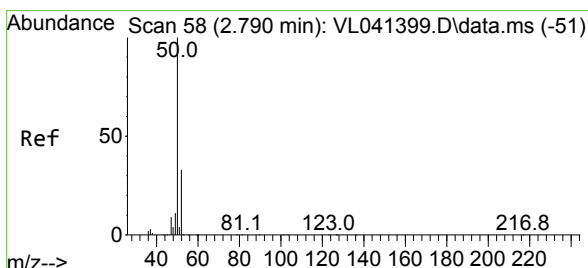
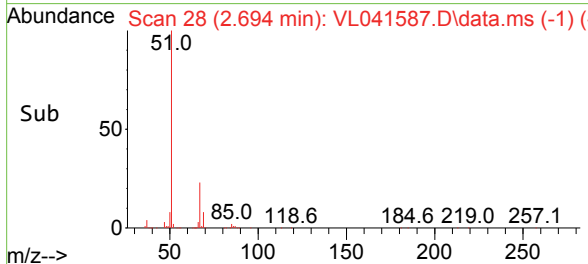
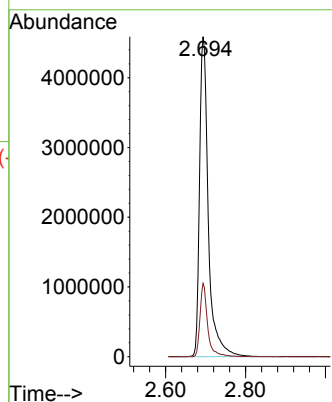


#3
Chlorodifluoromethane
Concen: 66.941 ppbv
RT: 2.694 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL041587.D
Acq: 22 Aug 2024 14:55

Instrument :
MSVOA_L
ClientSampleId :

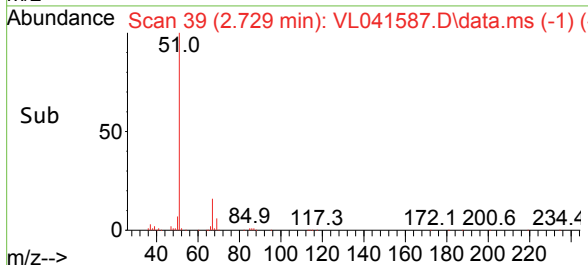
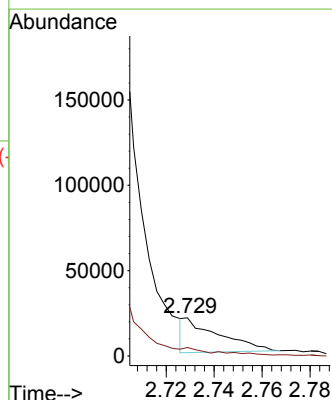
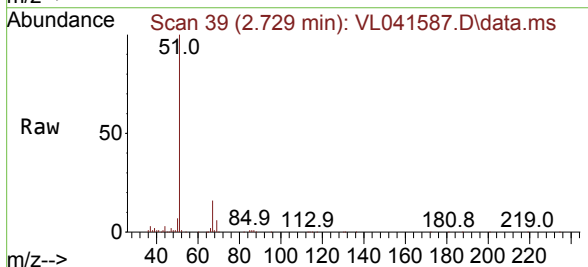


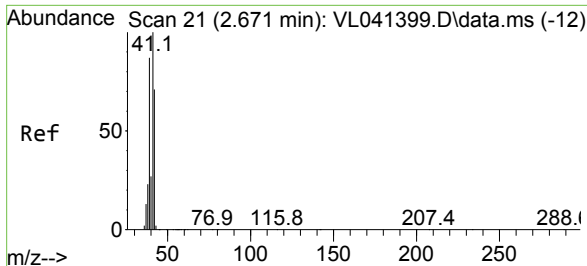
Tgt Ion: 51 Resp: 7007555
Ion Ratio Lower Upper
51 100
67 19.9 14.5 21.7



#4
Chloromethane
Concen: 0.359 ppbv
RT: 2.729 min Scan# 39
Delta R.T. -0.096 min
Lab File: VL041587.D
Acq: 22 Aug 2024 14:55

Tgt Ion: 50 Resp: 19991
Ion Ratio Lower Upper
50 100
52 22.4 26.1 39.1#

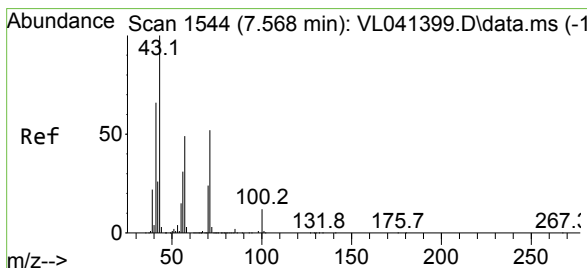
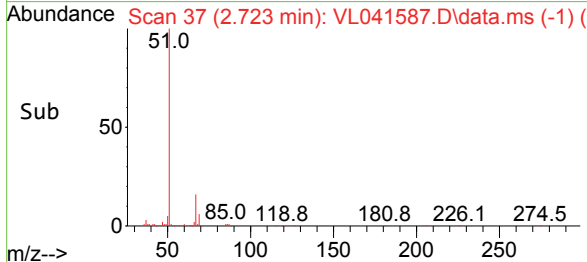
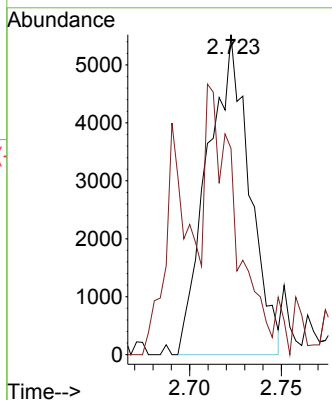
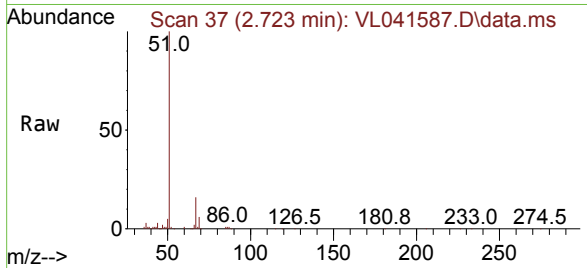




#9
Propene
Concen: 0.183 ppbv
RT: 2.723 min Scan# 31
Delta R.T. 0.013 min
Lab File: VL041587.D
Acq: 22 Aug 2024 14:55

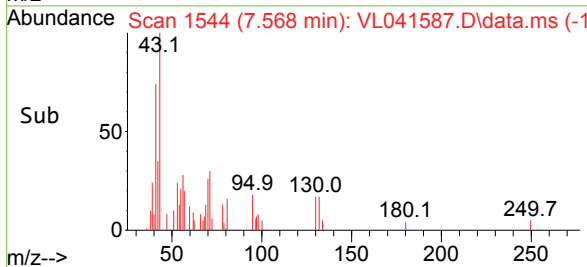
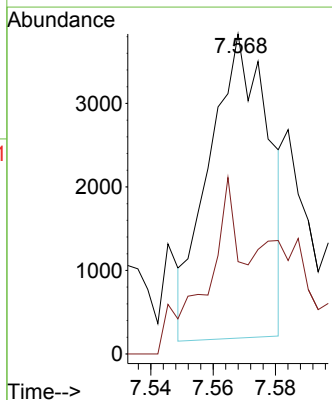
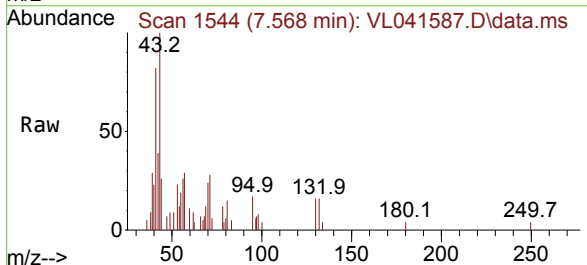
Instrument :
MSVOA_L
ClientSampleId :

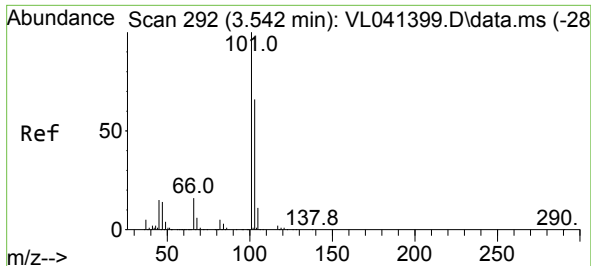
Tgt Ion: 41 Resp: 8805
Ion Ratio Lower Upper
41 100
42 110.9 55.9 83.9#



#10
Heptane
Concen: 0.044 ppbv
RT: 7.568 min Scan# 1544
Delta R.T. -0.006 min
Lab File: VL041587.D
Acq: 22 Aug 2024 14:55

Tgt Ion: 43 Resp: 4760
Ion Ratio Lower Upper
43 100
57 0.0 40.5 60.7#

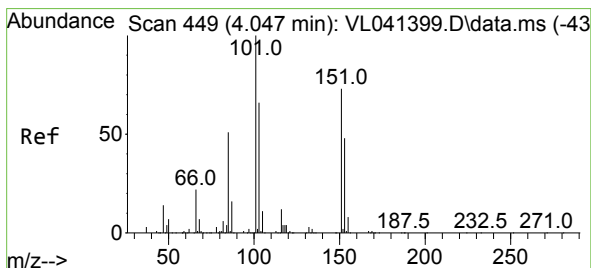
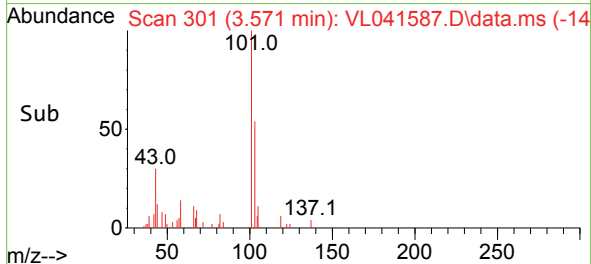
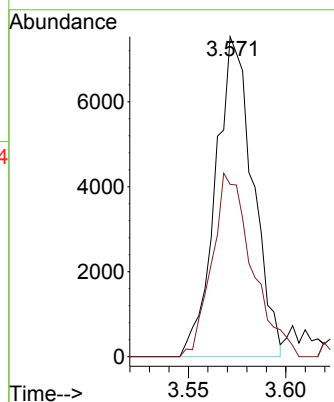
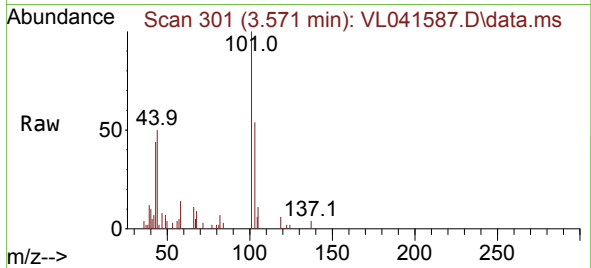




#11
 Trichlorofluoromethane
 Concen: 0.075 ppbv
 RT: 3.571 min Scan# 301
 Delta R.T. 0.000 min
 Lab File: VL041587.D
 Acq: 22 Aug 2024 14:55

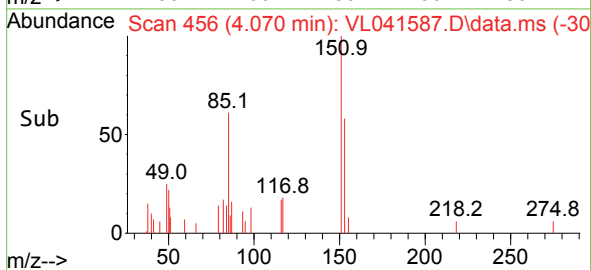
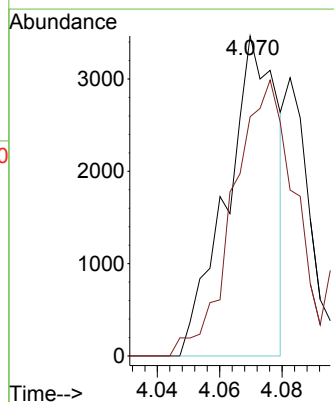
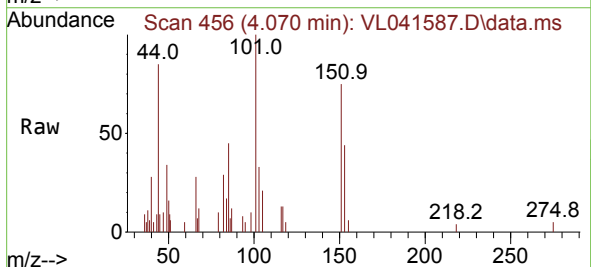
Instrument :
 MSVOA_L
 ClientSampleId :

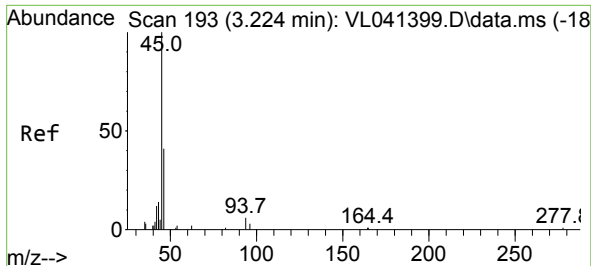
Tgt Ion:101 Resp: 10050
 Ion Ratio Lower Upper
 101 100
 103 53.8 52.6 79.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.040 ppbv
 RT: 4.070 min Scan# 456
 Delta R.T. -0.003 min
 Lab File: VL041587.D
 Acq: 22 Aug 2024 14:55

Tgt Ion:101 Resp: 3895
 Ion Ratio Lower Upper
 101 100
 151 0.0 59.4 89.2#

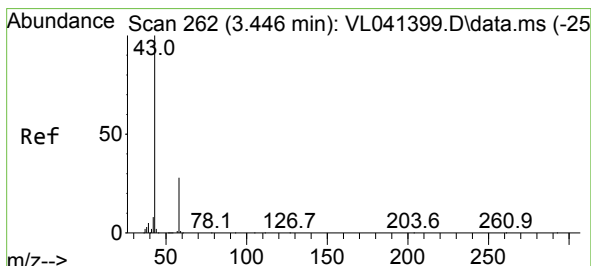
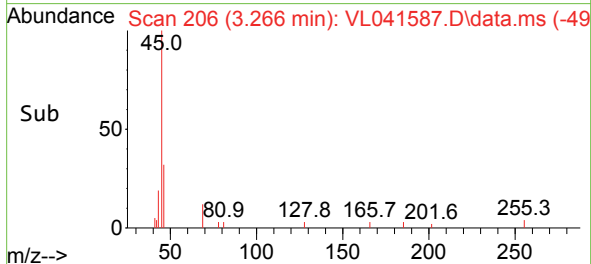
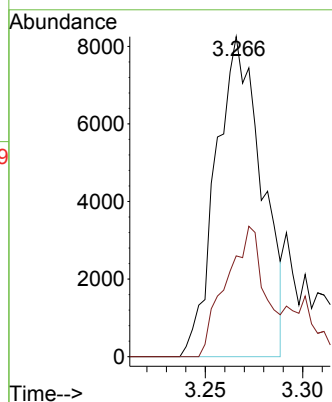
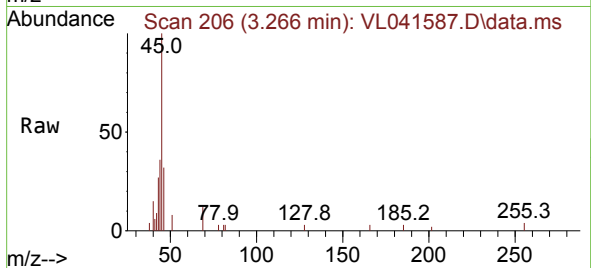




#13
Ethanol
Concen: 3.134 ppbv
RT: 3.266 min Scan# 206
Delta R.T. 0.003 min
Lab File: VL041587.D
Acq: 22 Aug 2024 14:55

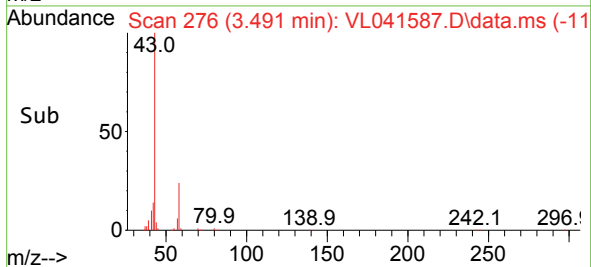
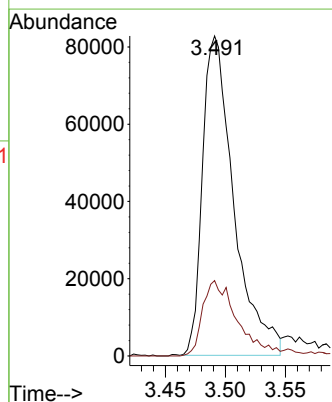
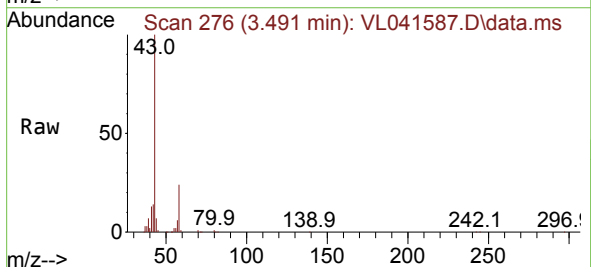
Instrument :
MSVOA_L
ClientSampleId :

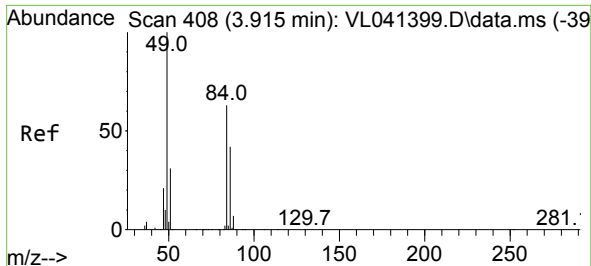
Tgt Ion: 45 Resp: 13472
Ion Ratio Lower Upper
45 100
46 49.9 13.4 53.4



#15
Acetone
Concen: 1.507 ppbv
RT: 3.491 min Scan# 276
Delta R.T. 0.013 min
Lab File: VL041587.D
Acq: 22 Aug 2024 14:55

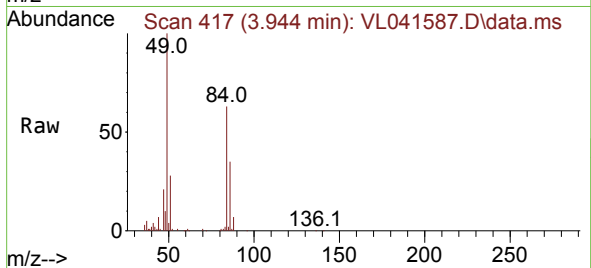
Tgt Ion: 43 Resp: 150605
Ion Ratio Lower Upper
43 100
58 27.4 21.4 32.2





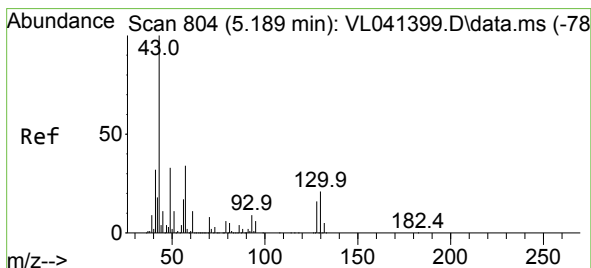
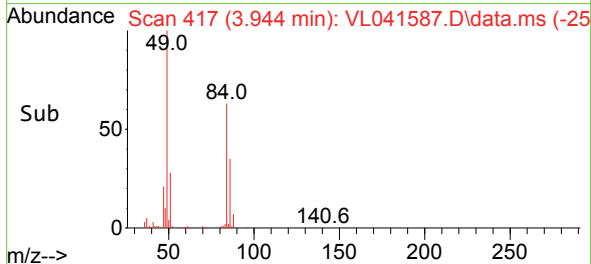
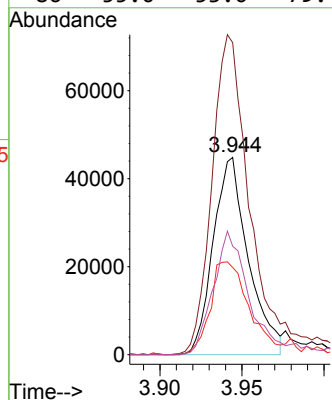
#20
Methylene Chloride
Concen: 1.790 ppbv
RT: 3.944 min Scan# 417
Delta R.T. 0.007 min
Lab File: VL041587.D
Acq: 22 Aug 2024 14:55

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 84 Resp: 66683

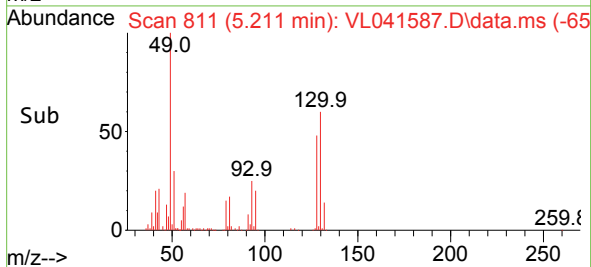
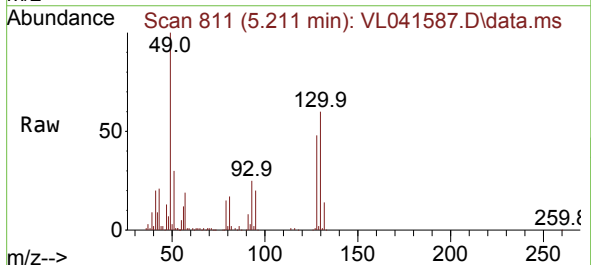
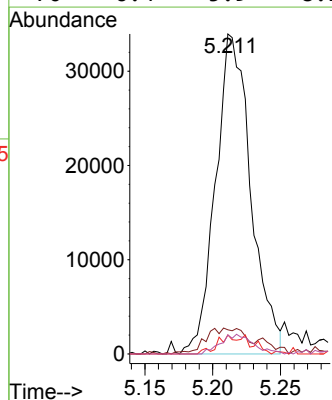
Ion	Ratio	Lower	Upper
84	100		
49	157.5	126.6	190.0
51	43.5	38.6	58.0
86	55.0	53.0	79.4

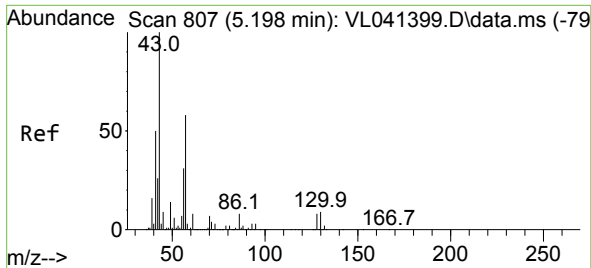


#25
Ethyl Acetate
Concen: 0.309 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.007 min
Lab File: VL041587.D
Acq: 22 Aug 2024 14:55

Tgt Ion: 43 Resp: 61335

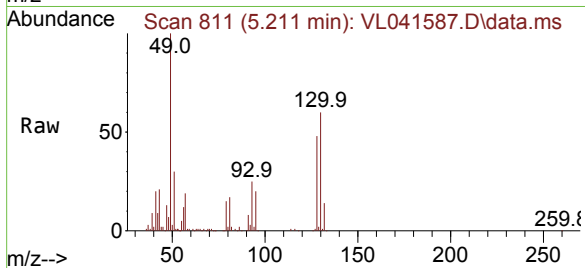
Ion	Ratio	Lower	Upper
43	100		
45	12.1	8.5	12.7
61	5.8	8.0	12.0
70	6.4	5.9	8.9



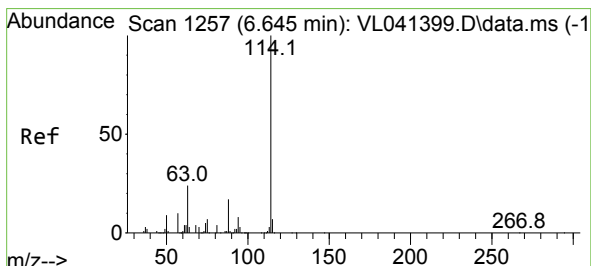
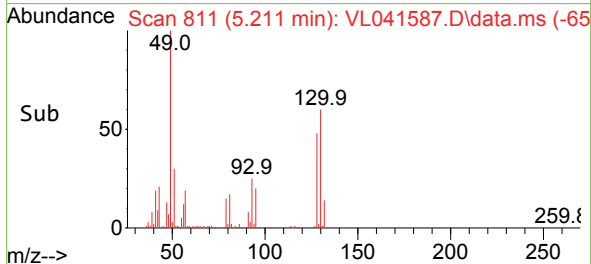
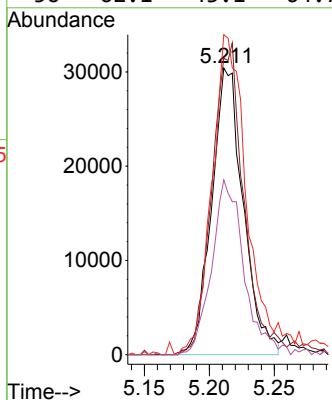


#26
Hexane
Concen: 0.625 ppbv
RT: 5.211 min Scan# 811
Delta R.T. -0.003 min
Lab File: VL041587.D
Acq: 22 Aug 2024 14:55

Instrument :
MSVOA_L
ClientSampleId :

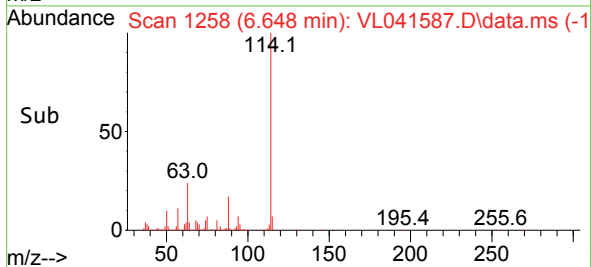
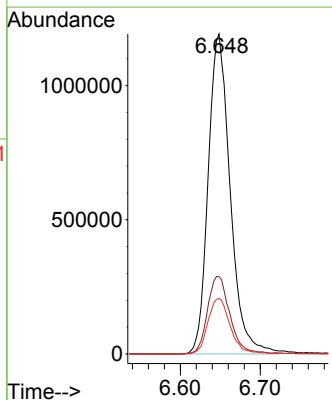
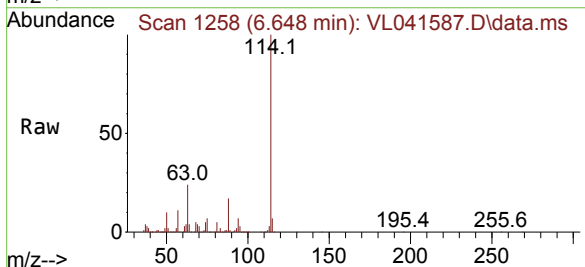


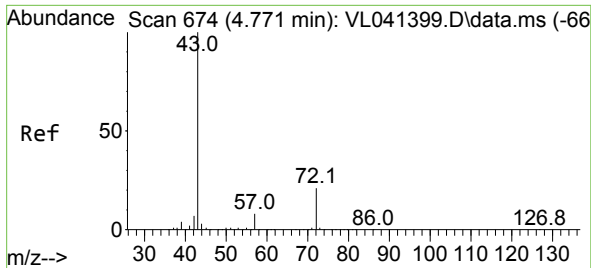
Tgt Ion: 57 Resp: 51449
Ion Ratio Lower Upper
57 100
41 112.2 74.0 111.0#
43 129.1 193.6 290.4#
56 62.1 43.1 64.7



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.648 min Scan# 1258
Delta R.T. 0.000 min
Lab File: VL041587.D
Acq: 22 Aug 2024 14:55

Tgt Ion:114 Resp: 2277950
Ion Ratio Lower Upper
114 100
63 25.1 20.3 30.5
88 17.8 14.3 21.5

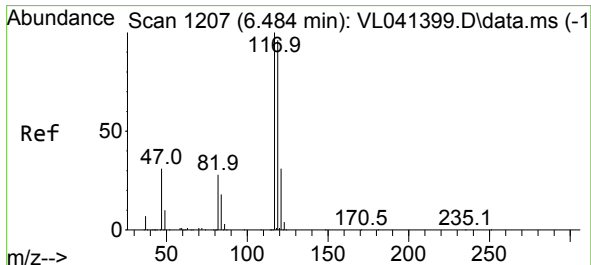
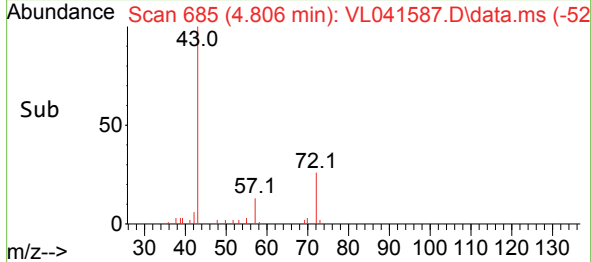
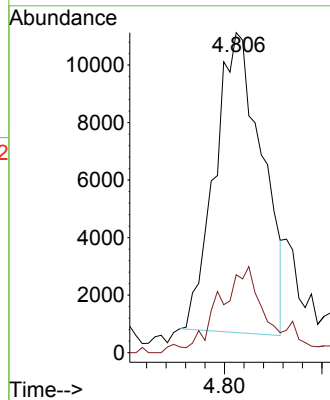
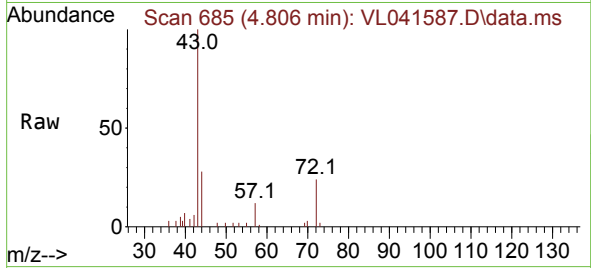




#34
2-Butanone
Concen: 0.159 ppbv
RT: 4.806 min Scan# 61
Delta R.T. 0.019 min
Lab File: VL041587.D
Acq: 22 Aug 2024 14:55

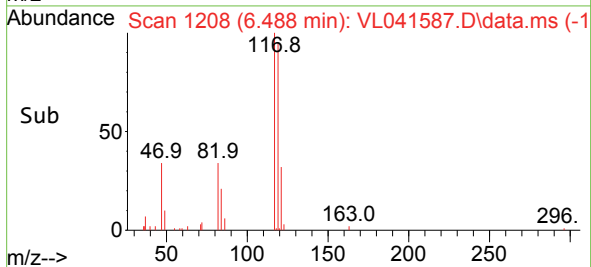
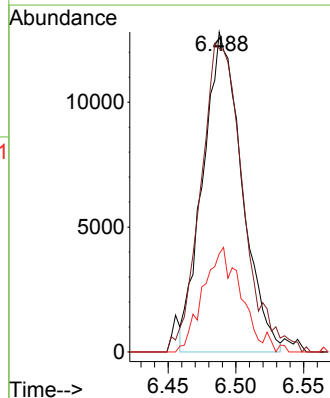
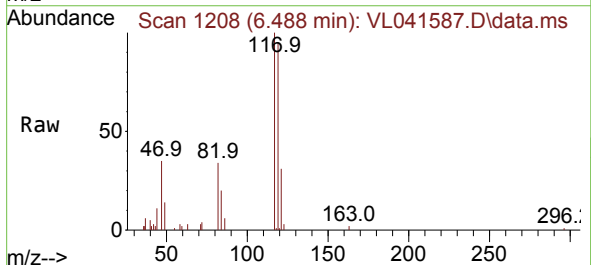
Instrument :
MSVOA_L
ClientSampleId :

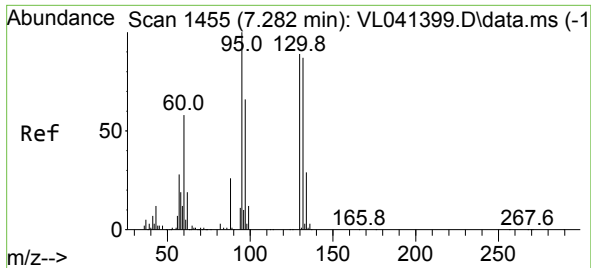
Tgt Ion: 43 Resp: 17477
Ion Ratio Lower Upper
43 100
72 30.9 17.3 25.9#



#35
Carbon Tetrachloride
Concen: 0.204 ppbv
RT: 6.488 min Scan# 1208
Delta R.T. -0.003 min
Lab File: VL041587.D
Acq: 22 Aug 2024 14:55

Tgt Ion: 117 Resp: 25603
Ion Ratio Lower Upper
117 100
119 93.0 76.6 115.0
121 29.7 25.1 37.7

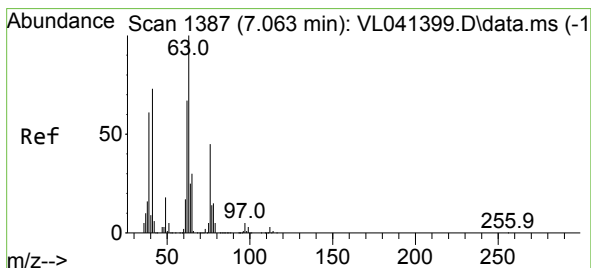
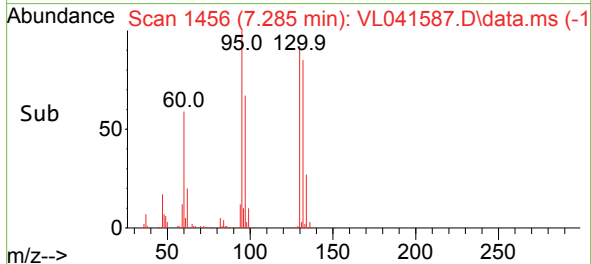
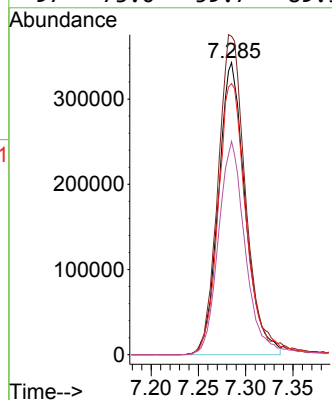
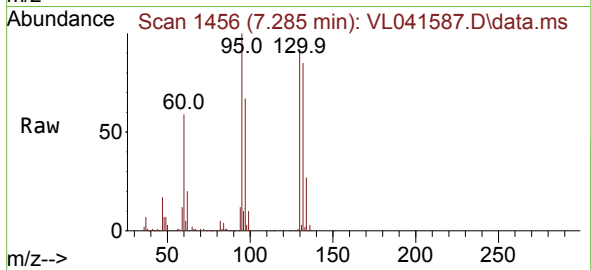




#38
 Trichloroethene
 Concen: 8.842 ppbv
 RT: 7.285 min Scan# 1455
 Delta R.T. 0.000 min
 Lab File: VL041587.D
 Acq: 22 Aug 2024 14:55

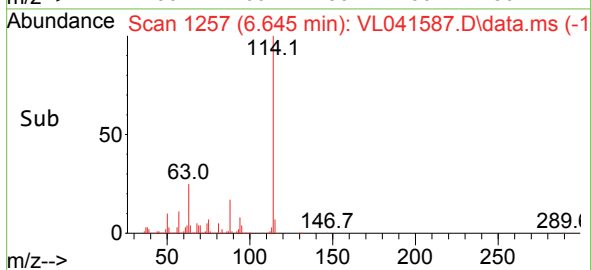
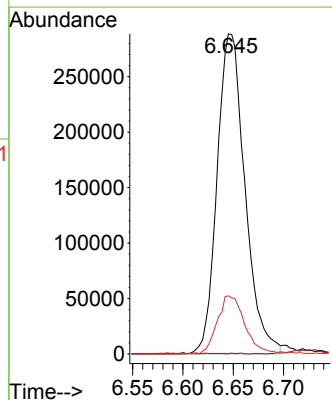
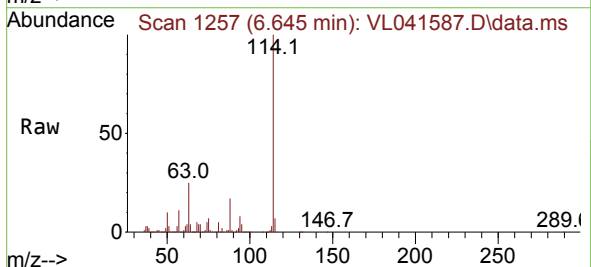
Instrument :
 MSVOA_L
 ClientSampleId :

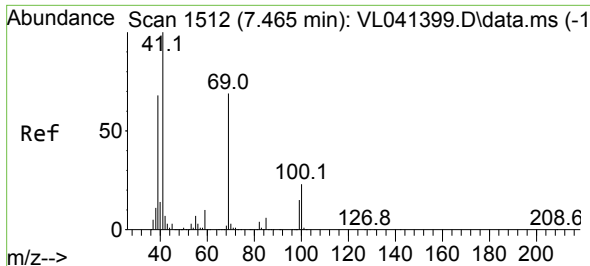
Tgt Ion:130 Resp: 674239
 Ion Ratio Lower Upper
 130 100
 95 109.0 90.2 135.2
 132 92.8 78.1 117.1
 97 73.0 59.7 89.5



#39
 1,2-Dichloropropane
 Concen: 8.724 ppbv
 RT: 6.645 min Scan# 1257
 Delta R.T. -0.424 min
 Lab File: VL041587.D
 Acq: 22 Aug 2024 14:55

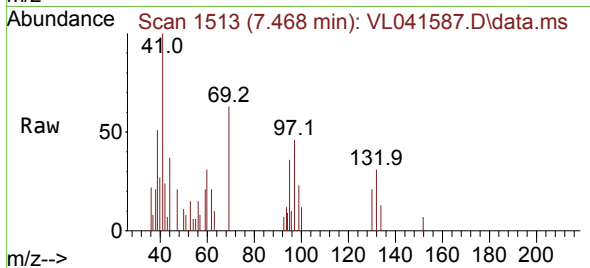
Tgt Ion: 63 Resp: 555932
 Ion Ratio Lower Upper
 63 100
 41 0.0 58.3 87.5#
 62 18.1 53.9 80.9#



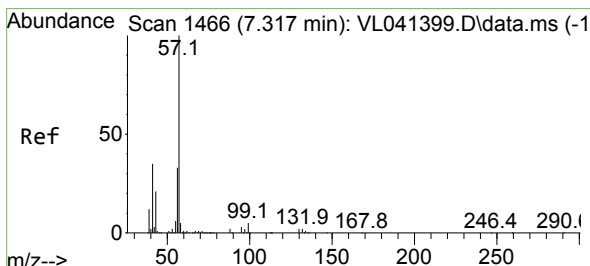
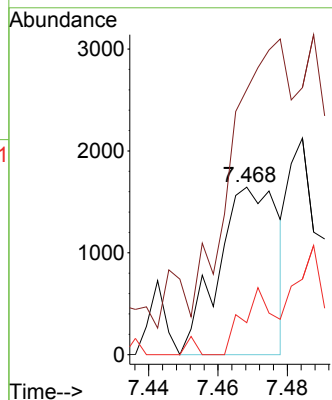
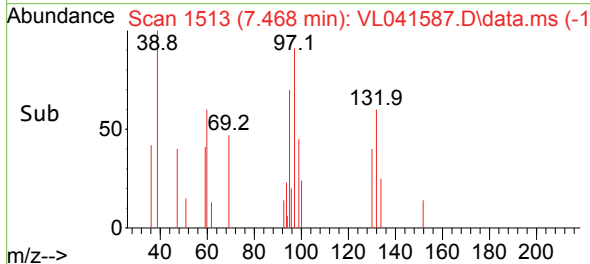


#43
Methyl Methacrylate
Concen: 0.033 ppbv
RT: 7.468 min Scan# 1513
Delta R.T. 0.000 min
Lab File: VL041587.D
Acq: 22 Aug 2024 14:55

Instrument :
MSVOA_L
ClientSampleId :

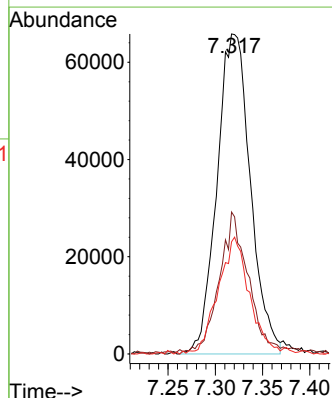
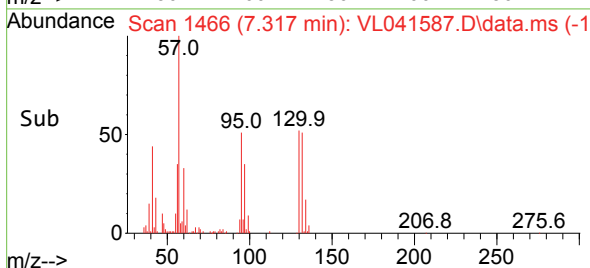
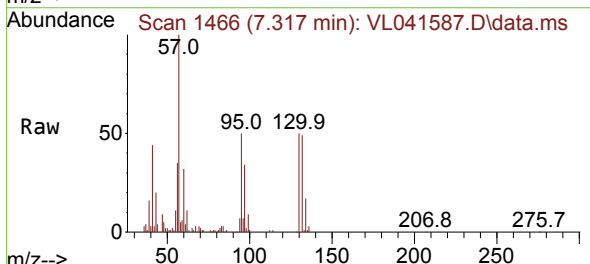


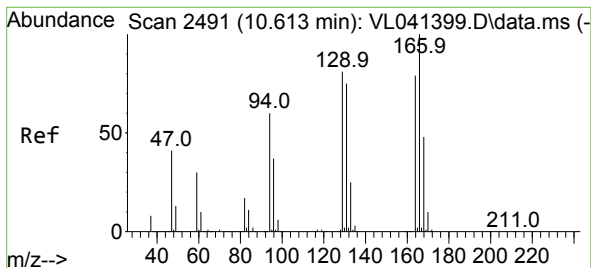
Tgt Ion: 69 Resp: 1970
Ion Ratio Lower Upper
69 100
41 0.0 118.7 178.1#
100 0.0 27.0 40.4#



#44
2,2,4-Trimethylpentane
Concen: 0.581 ppbv
RT: 7.317 min Scan# 1466
Delta R.T. -0.003 min
Lab File: VL041587.D
Acq: 22 Aug 2024 14:55

Tgt Ion: 57 Resp: 161653
Ion Ratio Lower Upper
57 100
41 39.5 27.0 40.6
56 35.1 25.2 37.8





#52

Tetrachloroethene

Concen: 0.174 ppbv

RT: 10.613 min Scan# 2491

Delta R.T. 0.007 min

Lab File: VL041587.D

Acq: 22 Aug 2024 14:55

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:164 Resp: 11168

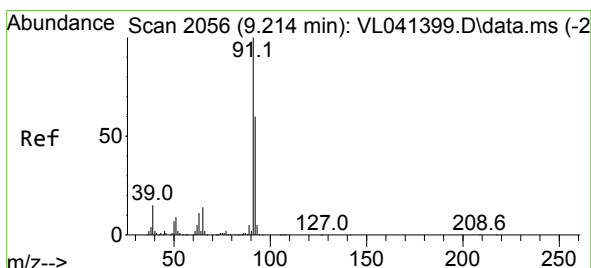
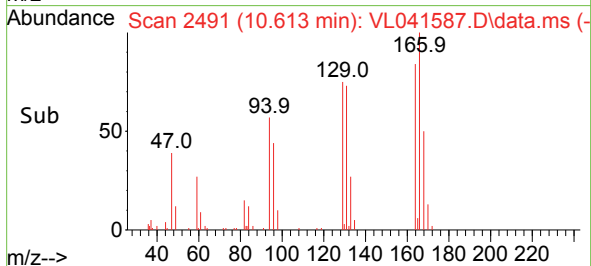
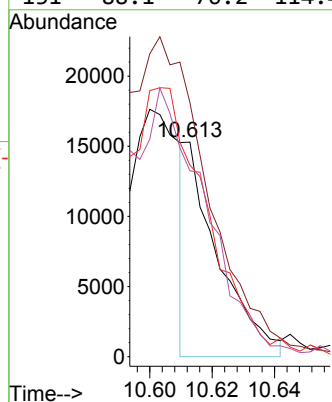
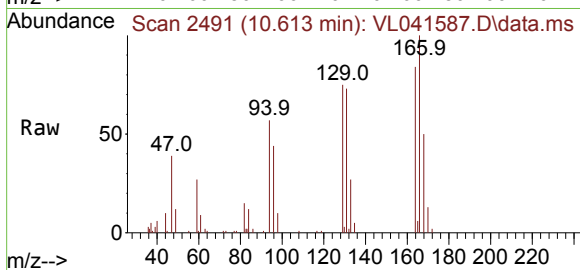
Ion Ratio Lower Upper

164 100

166 118.5 101.1 151.7

129 87.3 81.7 122.5

131 88.1 76.2 114.4



#53

Toluene

Concen: 7.705 ppbv

RT: 9.211 min Scan# 2055

Delta R.T. 0.000 min

Lab File: VL041587.D

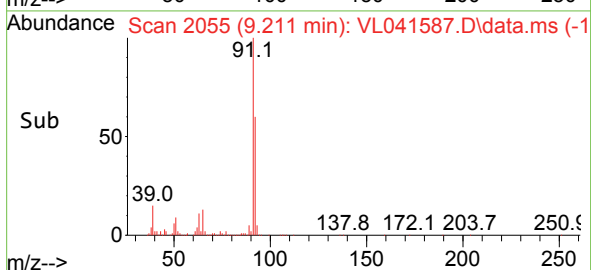
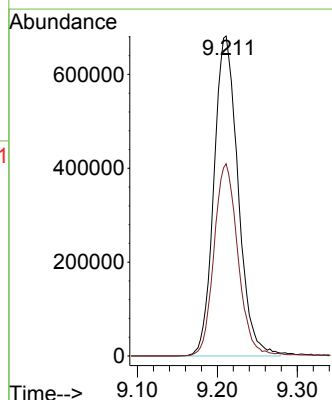
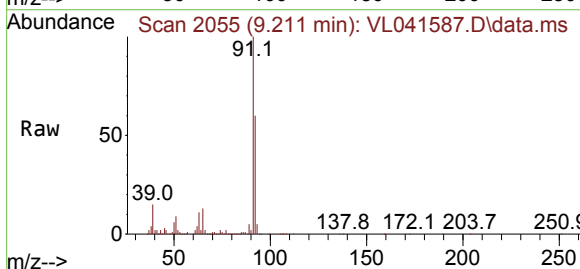
Acq: 22 Aug 2024 14:55

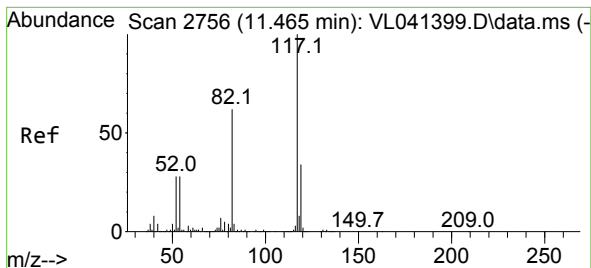
Tgt Ion: 91 Resp: 1428594

Ion Ratio Lower Upper

91 100

92 60.1 48.7 73.1

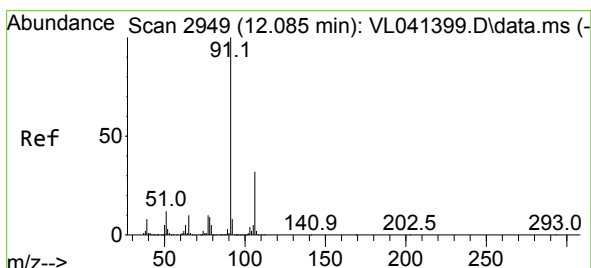
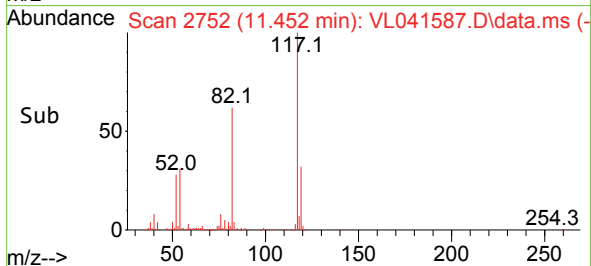
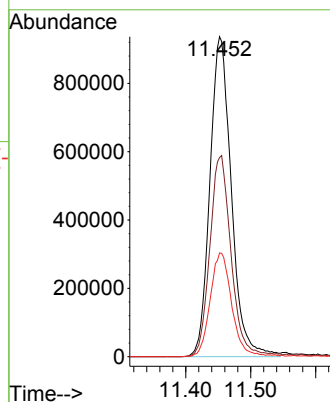
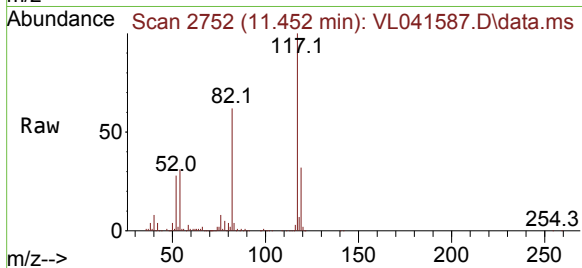




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL041587.D
Acq: 22 Aug 2024 14:55

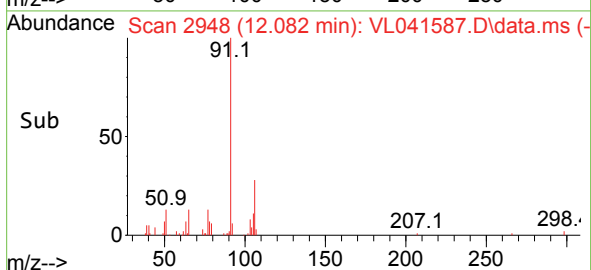
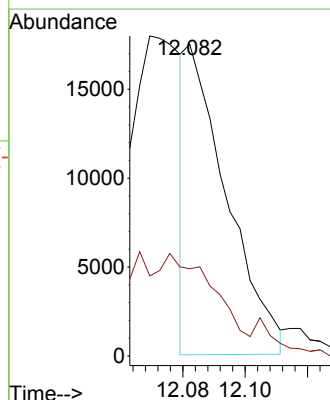
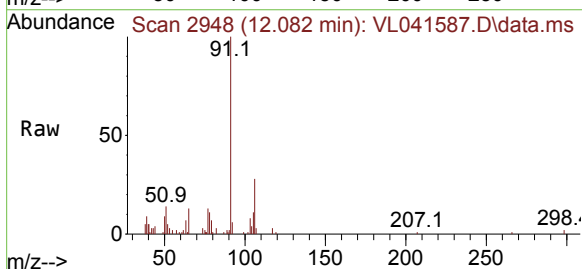
Instrument :
MSVOA_L
ClientSampleId :

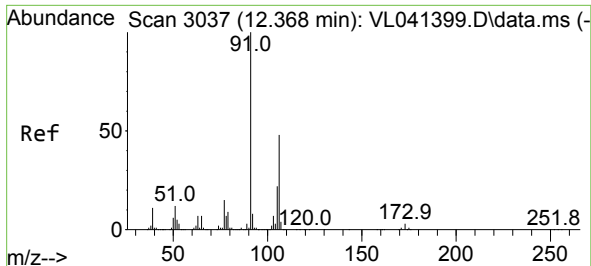
Tgt Ion:117 Resp: 2146868
Ion Ratio Lower Upper
117 100
82 63.8 51.0 76.6
119 33.0 45.2 67.8#



#58
Ethyl Benzene
Concen: 0.064 ppbv
RT: 12.082 min Scan# 2948
Delta R.T. 0.007 min
Lab File: VL041587.D
Acq: 22 Aug 2024 14:55

Tgt Ion: 91 Resp: 15874
Ion Ratio Lower Upper
91 100
106 26.1 25.8 38.8





#59

m/p-Xylene

Concen: 0.036 ppbv

RT: 12.352 min Scan# 3032

Delta R.T. -0.006 min

Lab File: VL041587.D

Acq: 22 Aug 2024 14:55

Instrument :

MSVOA_L

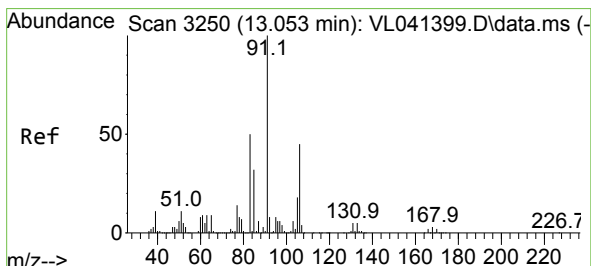
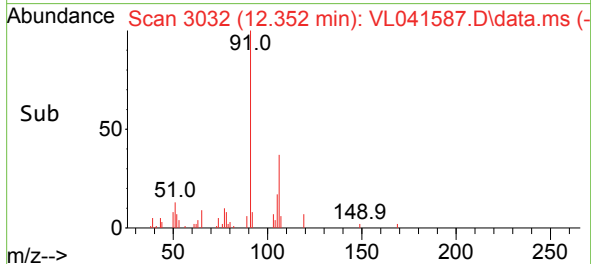
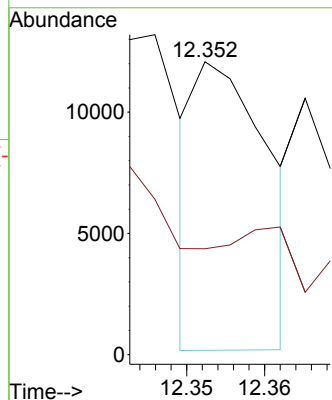
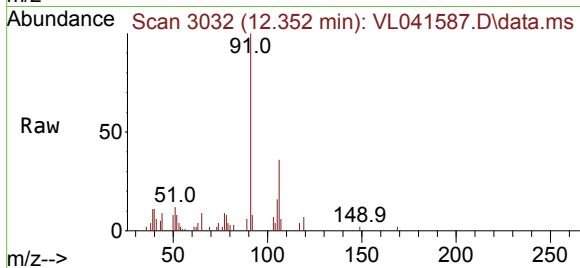
ClientSampleId :

Tgt Ion: 91 Resp: 7683

Ion Ratio Lower Upper

91 100

106 319.7 36.3 54.5#



#60

o-Xylene

Concen: 0.040 ppbv

RT: 13.040 min Scan# 3246

Delta R.T. -0.006 min

Lab File: VL041587.D

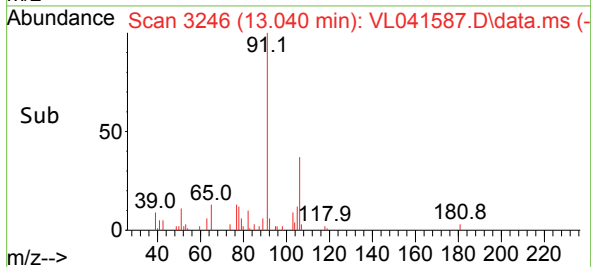
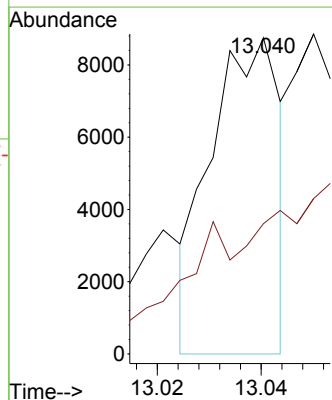
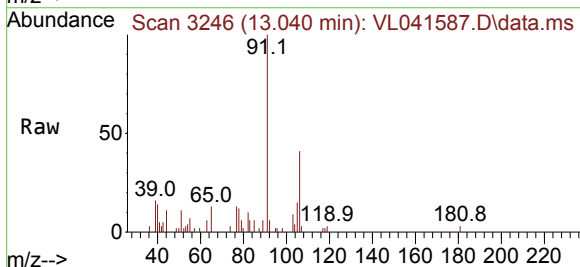
Acq: 22 Aug 2024 14:55

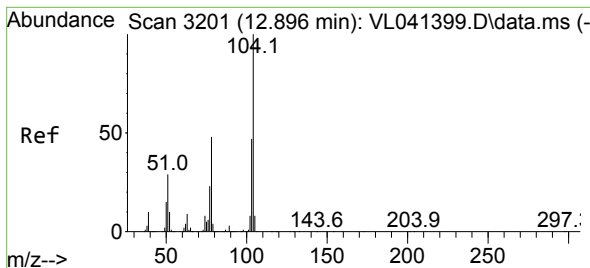
Tgt Ion: 91 Resp: 8059

Ion Ratio Lower Upper

91 100

106 0.0 23.1 69.3#





#61

Styrene

Concen: 0.125 ppbv

RT: 12.880 min Scan# 3196

Delta R.T. -0.003 min

Lab File: VL041587.D

Acq: 22 Aug 2024 14:55

Instrument :

MSVOA_L

ClientSampleId :

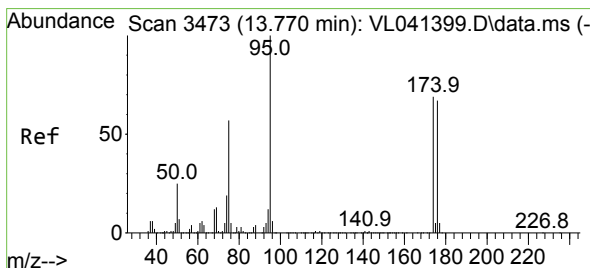
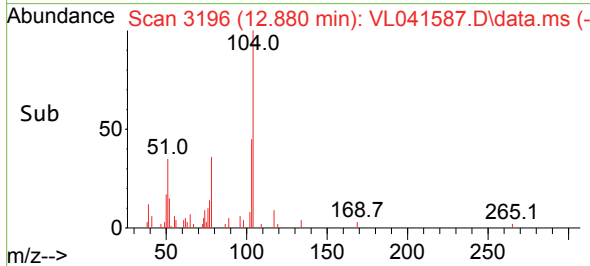
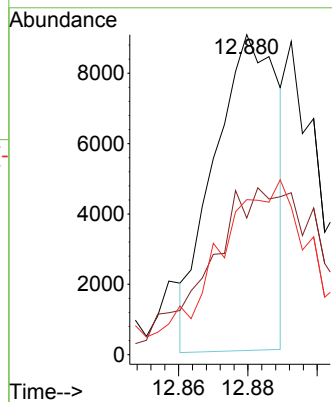
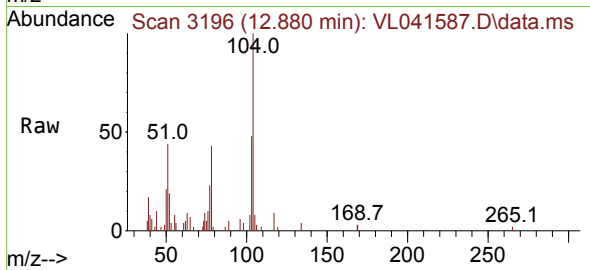
Tgt Ion:104 Resp: 11438

Ion Ratio Lower Upper

104 100

78 107.3 40.8 61.2#

103 0.0 38.2 57.4#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.023 ppbv

RT: 13.761 min Scan# 3470

Delta R.T. -0.003 min

Lab File: VL041587.D

Acq: 22 Aug 2024 14:55

Tgt Ion: 95 Resp: 1655989

Ion Ratio Lower Upper

95 100

174 69.5 56.3 84.5

175 5.2 4.0 6.0

