

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052124\
 Data File : VL041265.D
 Acq On : 21 May 2024 14:53
 Operator : SY/MD
 Sample : P2533-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Quant Time: May 22 05:44:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed May 22 05:39:49 2024
 Response via : Initial Calibration

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

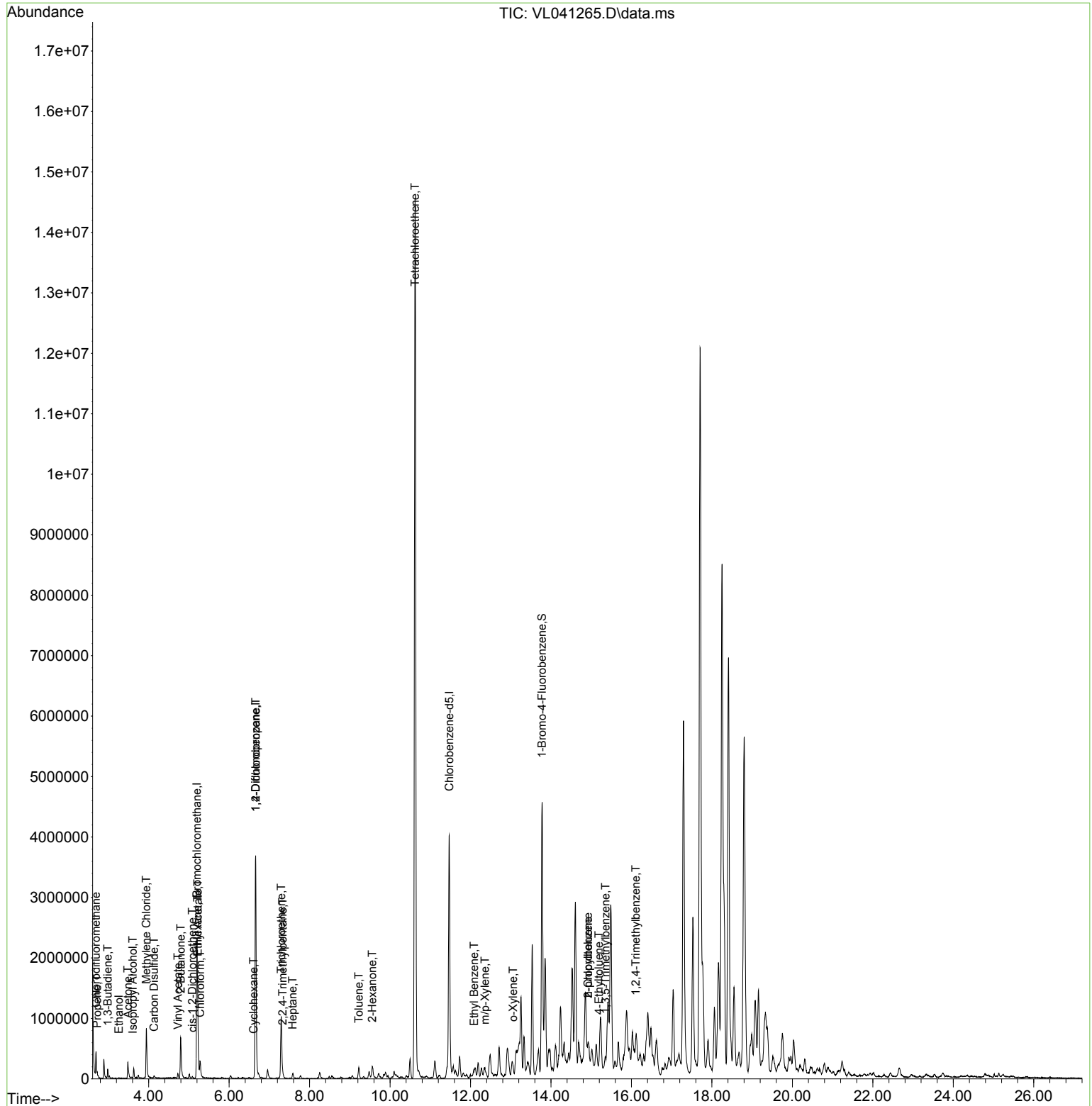
Internal Standards						
1) Bromochloromethane	5.198	49	1084695	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2814199	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2633845	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	2124638	10.685	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.900%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	2.690	51	413269	2.509	ppbv	99
9) Propene	2.722	41	15453	0.240	ppbv	88
10) Heptane	7.581	43	23567	0.151	ppbv #	51
13) Ethanol	3.259	45	2883	0.199	ppbv #	38
15) Acetone	3.484	43	269939	2.109	ppbv #	78
16) 1,3-Butadiene	2.980	39	33458	0.518	ppbv #	22
19) Isopropyl Alcohol	3.603	45	9559	0.114	ppbv #	41
20) Methylene Chloride	3.944	84	260190	5.845	ppbv	96
23) Vinyl Acetate	4.725	43	26003	0.184	ppbv #	23
25) Ethyl Acetate	5.221	43	217143	0.850	ppbv #	77
26) Hexane	5.217	57	314288	2.756	ppbv #	40
27) Carbon Disulfide	4.137	76	36111	0.268	ppbv #	52
29) Chloroform	5.279	83	153397	0.975	ppbv	95
30) Cyclohexane	6.610	84	3221	0.036	ppbv #	1
31) cis-1,2-Dichloroethene	5.086	61	16124	0.151	ppbv	94
34) 2-Butanone	4.796	43	855134	5.970	ppbv	99
38) Trichloroethene	7.298	130	319830	3.634	ppbv	93
39) 1,2-Dichloropropane	6.658	63	712468	7.828	ppbv #	24
44) 2,2,4-Trimethylpentane	7.330	57	27343	0.067	ppbv #	1
51) 2-Hexanone	9.558	43	198384	1.040	ppbv #	94
52) Tetrachloroethene	10.622	164	3833695	46.186	ppbv	99
53) Toluene	9.224	91	118524	0.433	ppbv	99
58) Ethyl Benzene	12.089	91	51527	0.143	ppbv	99
59) m/p-Xylene	12.359	91	52822	0.174	ppbv #	31
60) o-Xylene	13.060	91	79785	0.280	ppbv	96
64) n-propylbenzene	14.924	120	5315	0.050	ppbv #	1
71) 2-Chlorotoluene	14.921	91	32167	0.099	ppbv	82
72) 4-Ethyltoluene	15.195	105	59573	0.185	ppbv #	86
73) 1,3,5-Trimethylbenzene	15.358	105	72379	0.248	ppbv	99
74) 1,2,4-Trimethylbenzene	16.104	105	251413	0.789	ppbv #	65

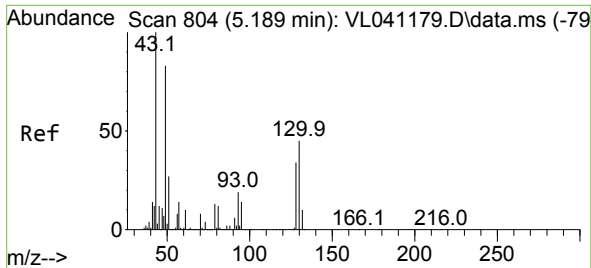
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052124\
Data File : VL041265.D
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Instrument :
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SV2

Quant Time: May 22 05:44:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed May 22 05:39:49 2024
Response via : Initial Calibration

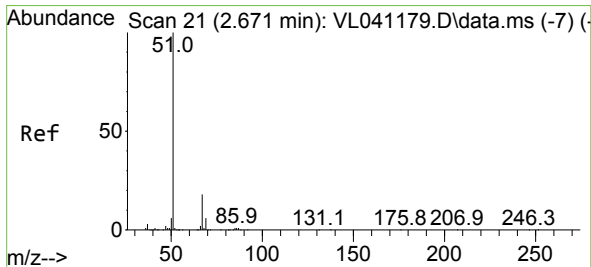
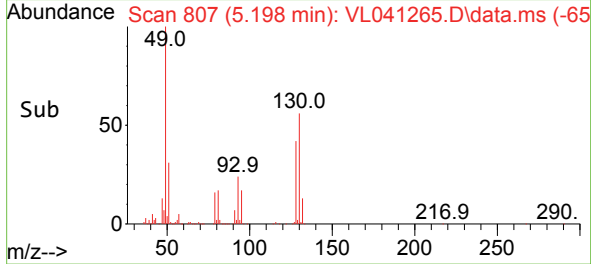
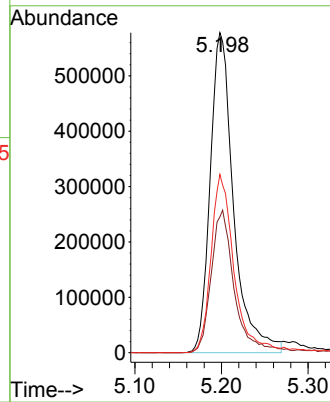
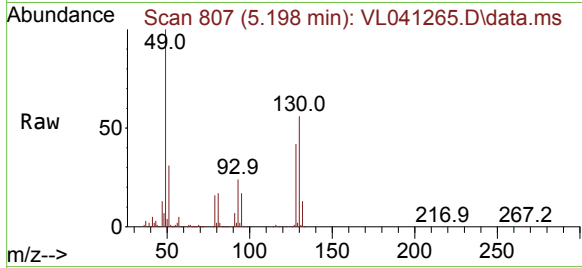




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.198 min Scan# 80
Delta R.T. -0.003 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

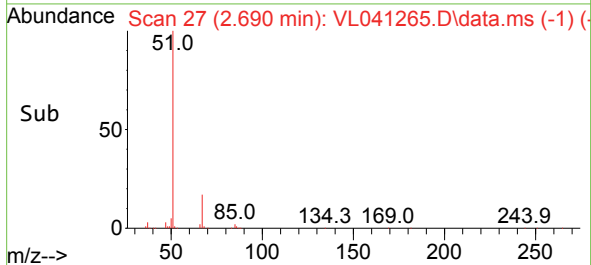
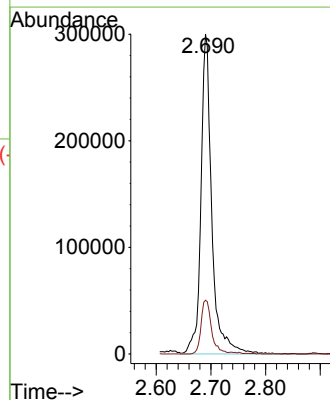
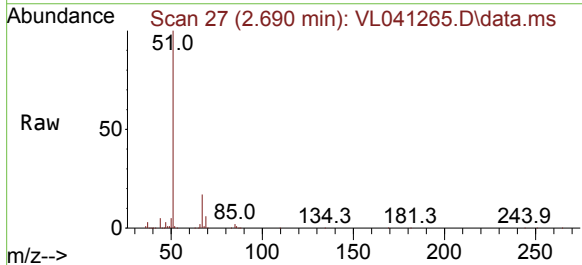
Instrument :
MSVOA_L
ClientSampleId :
SV2

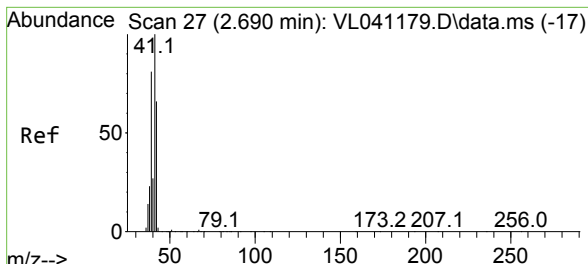
Tgt Ion: 49 Resp: 1084695
Ion Ratio Lower Upper
49 100
128 45.5 21.5 64.5
130 57.2 27.2 81.6



#3
Chlorodifluoromethane
Concen: 2.509 ppbv
RT: 2.690 min Scan# 27
Delta R.T. -0.003 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

Tgt Ion: 51 Resp: 413269
Ion Ratio Lower Upper
51 100
67 16.9 14.0 21.0

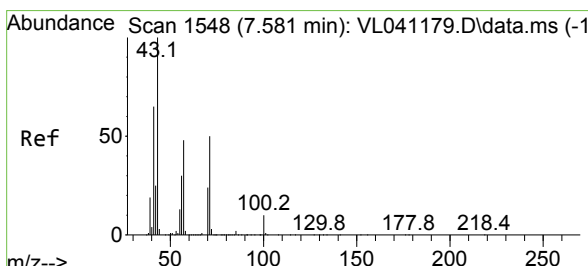
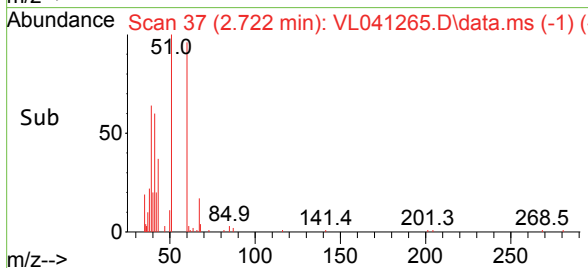
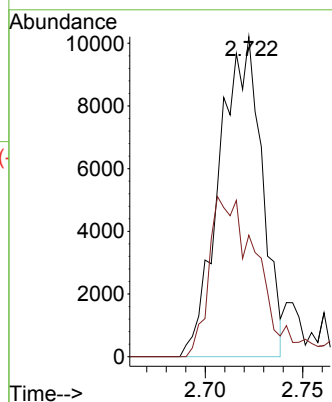
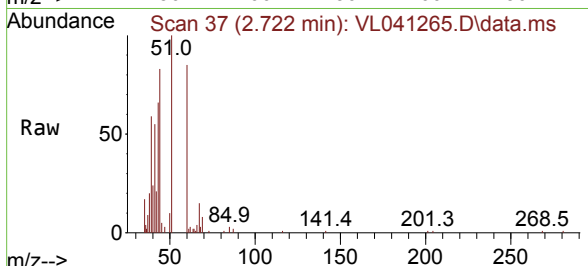




#9
 Propene
 Concen: 0.240 ppbv
 RT: 2.722 min Scan# 31
 Delta R.T. 0.010 min
 Lab File: VL041265.D
 Acq: 21 May 2024 14:53

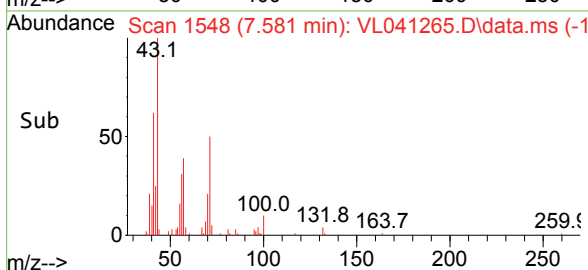
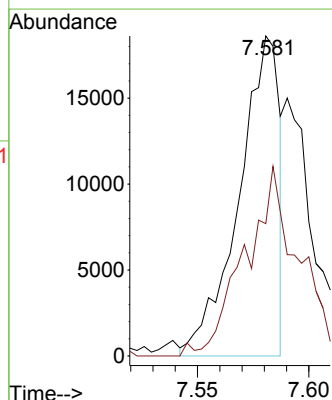
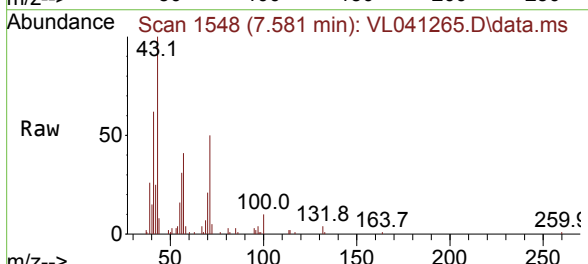
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

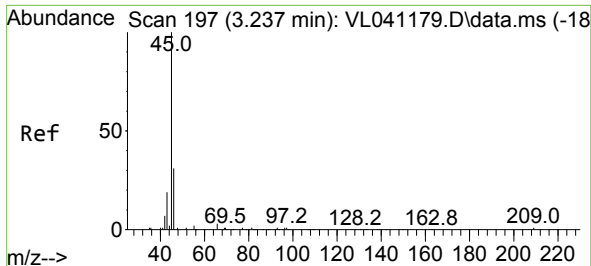
Tgt Ion: 41 Resp: 15453
 Ion Ratio Lower Upper
 41 100
 42 59.7 55.3 82.9



#10
 Heptane
 Concen: 0.151 ppbv
 RT: 7.581 min Scan# 1548
 Delta R.T. -0.003 min
 Lab File: VL041265.D
 Acq: 21 May 2024 14:53

Tgt Ion: 43 Resp: 23567
 Ion Ratio Lower Upper
 43 100
 57 81.5 38.7 58.1#

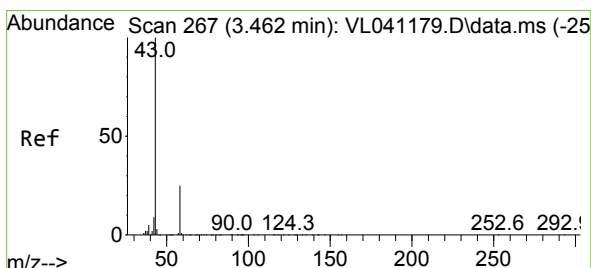
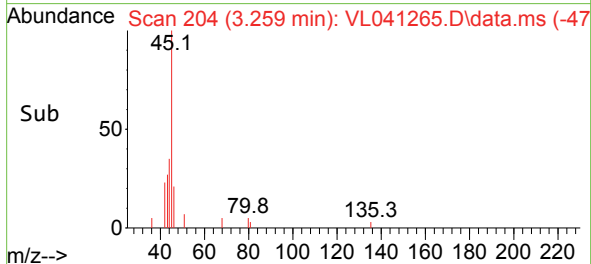
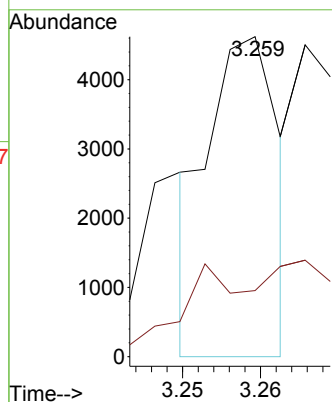
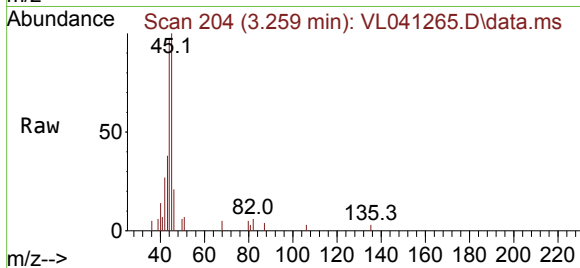




#13
Ethanol
Concen: 0.199 ppbv
RT: 3.259 min Scan# 204
Delta R.T. 0.006 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

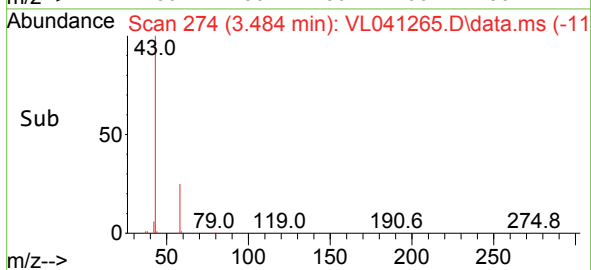
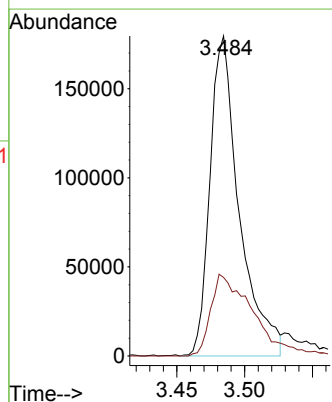
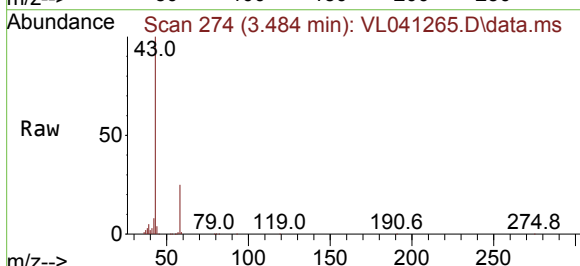
Instrument :
MSVOA_L
ClientSampleId :
SV2

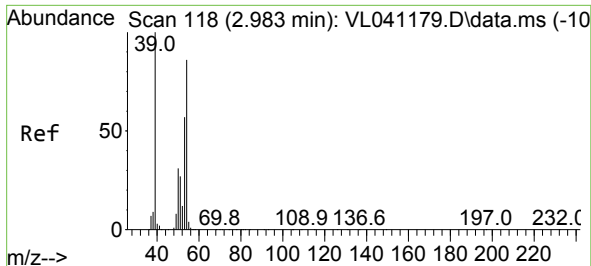
Tgt Ion: 45 Resp: 2883
Ion Ratio Lower Upper
45 100
46 0.0 14.8 59.0#



#15
Acetone
Concen: 2.109 ppbv
RT: 3.484 min Scan# 274
Delta R.T. 0.003 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

Tgt Ion: 43 Resp: 269939
Ion Ratio Lower Upper
43 100
58 38.0 21.4 32.0#

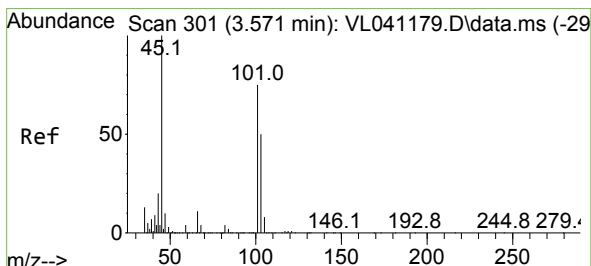
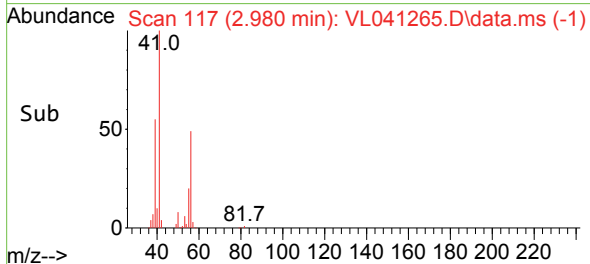
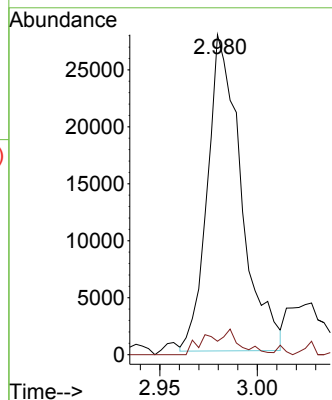
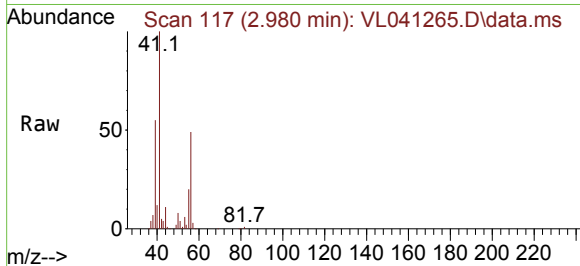




#16
1,3-Butadiene
Concen: 0.518 ppbv
RT: 2.980 min Scan# 118
Delta R.T. -0.023 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

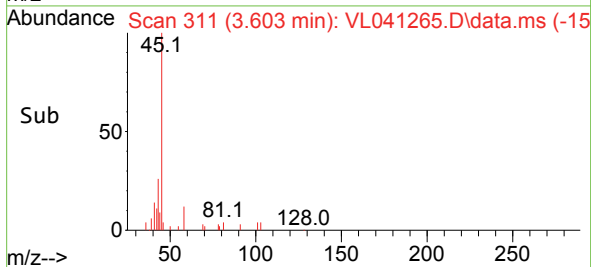
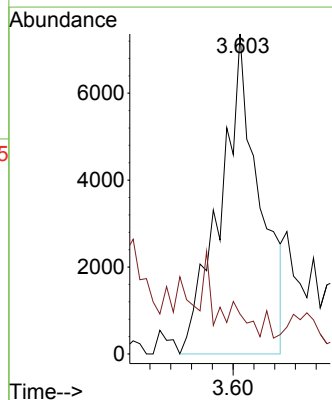
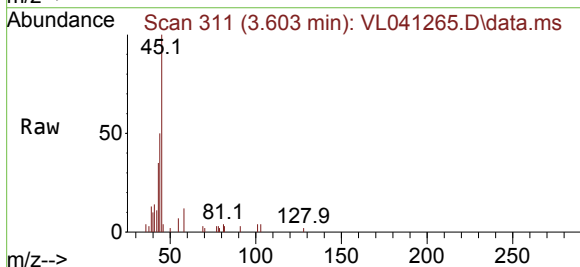
Instrument :
MSVOA_L
ClientSampleId :
SV2

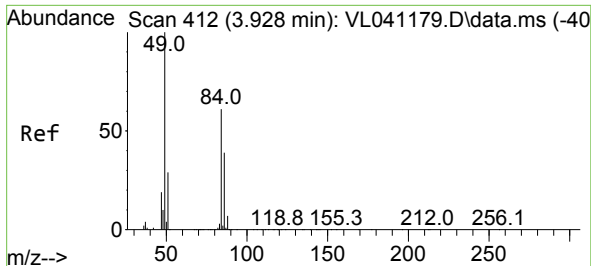
Tgt Ion: 39 Resp: 33458
Ion Ratio Lower Upper
39 100
54 9.7 62.2 93.4#



#19
Isopropyl Alcohol
Concen: 0.114 ppbv
RT: 3.603 min Scan# 311
Delta R.T. 0.016 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

Tgt Ion: 45 Resp: 9559
Ion Ratio Lower Upper
45 100
58 0.0 26.8 40.2#



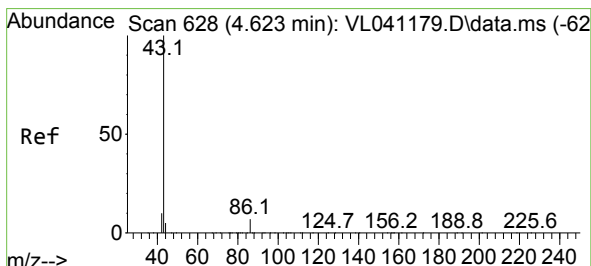
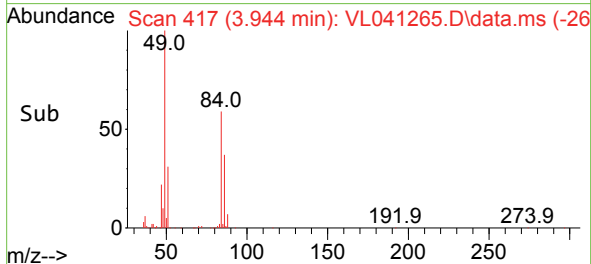
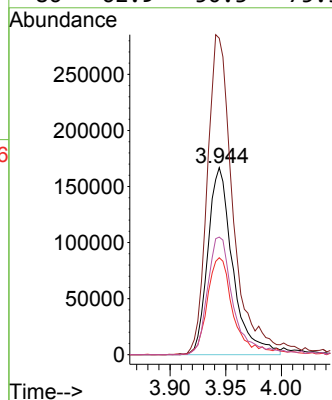
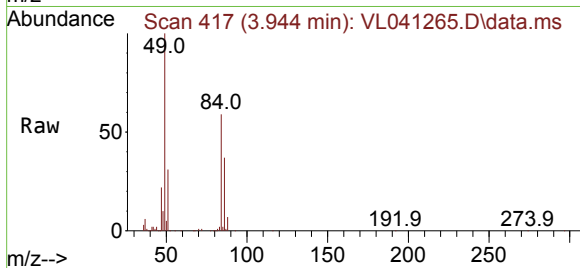


#20
Methylene Chloride
Concen: 5.845 ppbv
RT: 3.944 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 84 Resp: 260190

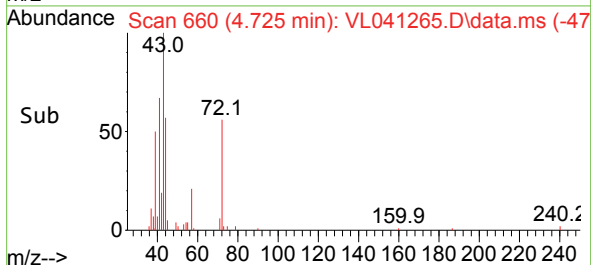
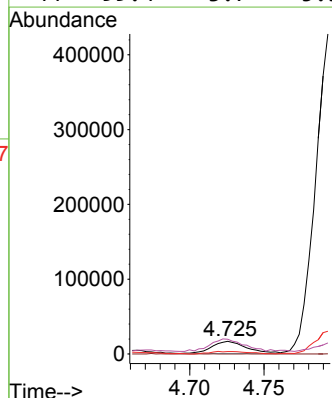
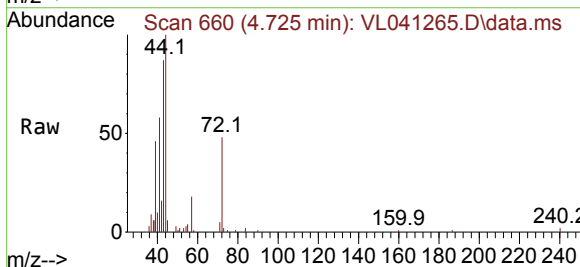
Ion	Ratio	Lower	Upper
84	100		
49	168.6	130.4	195.6
51	51.9	38.0	57.0
86	62.9	50.3	75.5

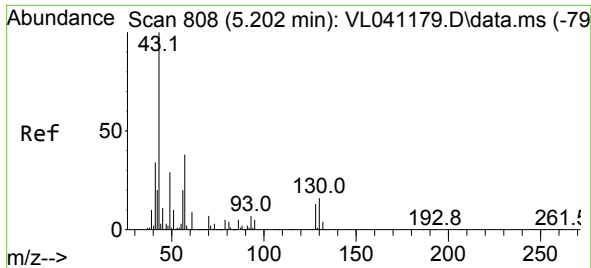


#23
Vinyl Acetate
Concen: 0.184 ppbv
RT: 4.725 min Scan# 660
Delta R.T. 0.090 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

Tgt Ion: 43 Resp: 26003

Ion	Ratio	Lower	Upper
43	100		
86	0.0	4.9	7.3#
42	15.9	8.0	12.0#
44	99.4	3.7	5.5#

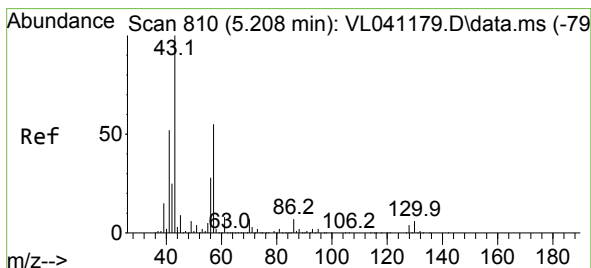
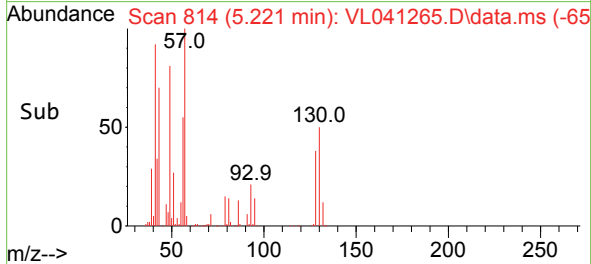
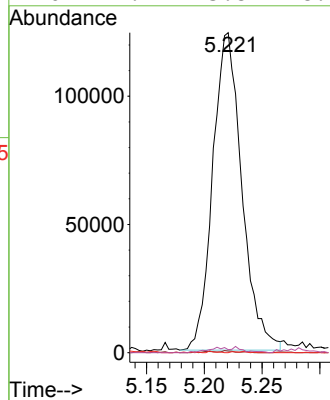
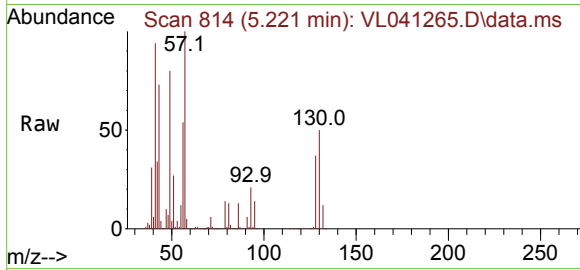




#25
Ethyl Acetate
Concen: 0.850 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.010 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

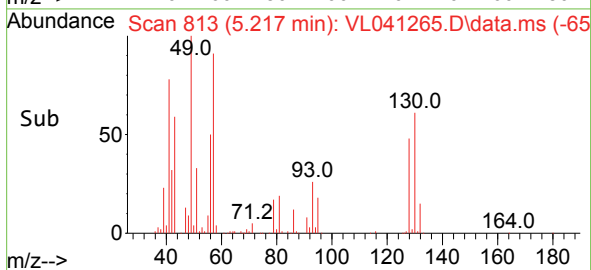
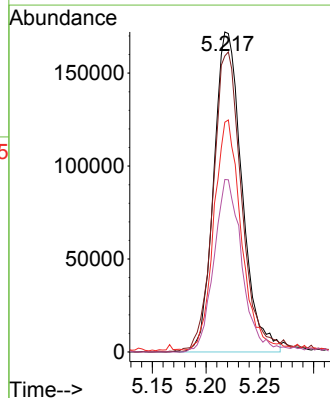
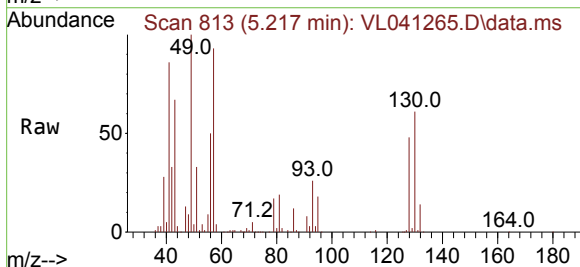
Instrument :
MSVOA_L
ClientSampleId :
SV2

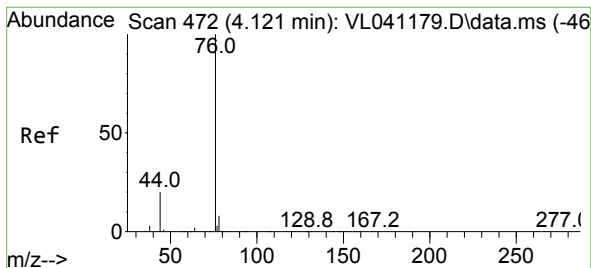
Tgt Ion: 43 Resp: 217143
Ion Ratio Lower Upper
43 100
45 0.3 8.2 12.2#
61 0.3 7.7 11.5#
70 1.9 5.8 8.6#



#26
Hexane
Concen: 2.756 ppbv
RT: 5.217 min Scan# 813
Delta R.T. -0.003 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

Tgt Ion: 57 Resp: 314288
Ion Ratio Lower Upper
57 100
41 97.8 75.8 113.8
43 72.5 187.0 280.4#
56 55.2 42.7 64.1





#27

Carbon Disulfide

Concen: 0.268 ppbv

RT: 4.137 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL041265.D

Acq: 21 May 2024 14:53

Instrument :

MSVOA_L

ClientSampleId :

SV2

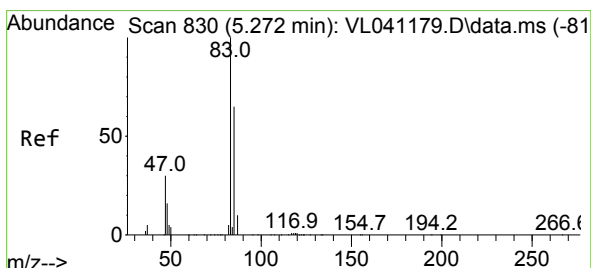
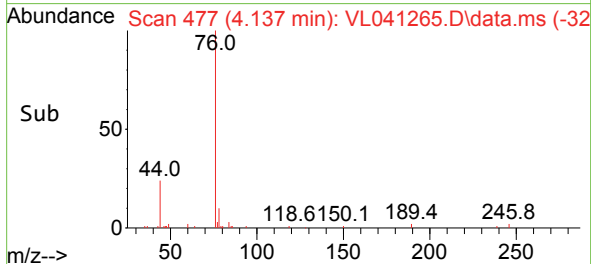
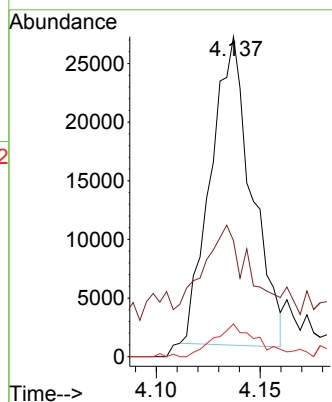
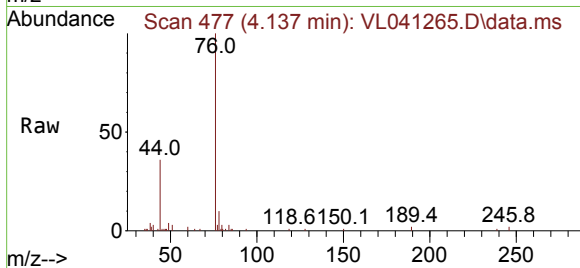
Tgt Ion: 76 Resp: 36111

Ion Ratio Lower Upper

76 100

44 50.1 16.3 24.5#

78 13.2 7.3 10.9#



#29

Chloroform

Concen: 0.975 ppbv

RT: 5.279 min Scan# 832

Delta R.T. -0.003 min

Lab File: VL041265.D

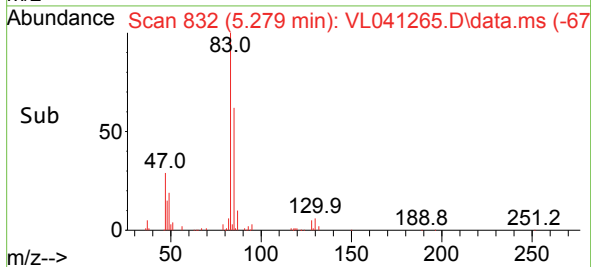
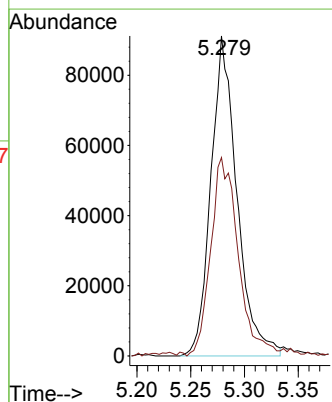
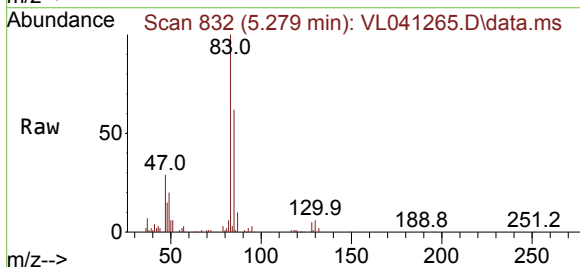
Acq: 21 May 2024 14:53

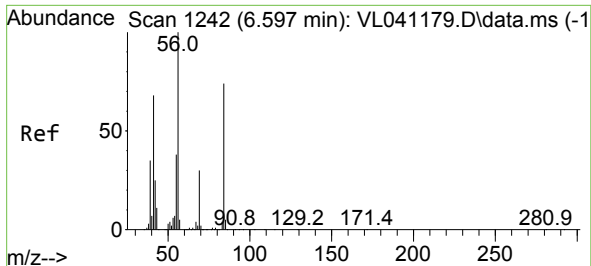
Tgt Ion: 83 Resp: 153397

Ion Ratio Lower Upper

83 100

85 60.8 51.7 77.5

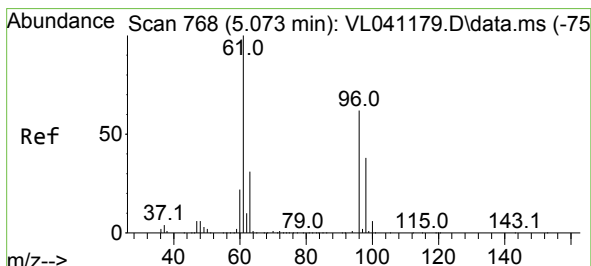
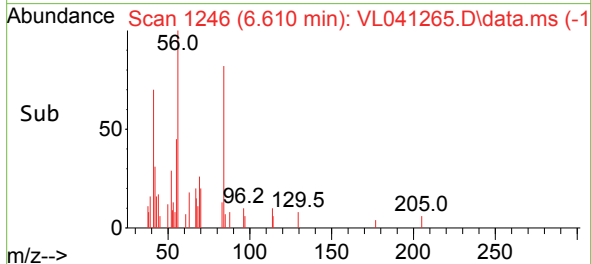
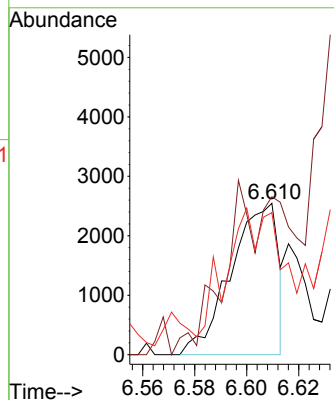
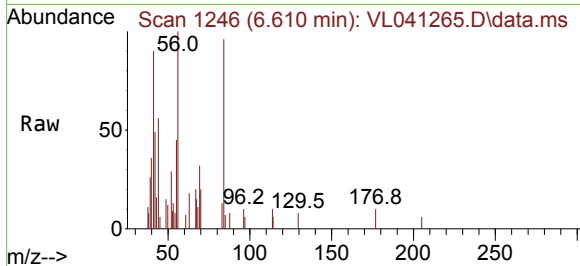




#30
Cyclohexane
Concen: 0.036 ppbv
RT: 6.610 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

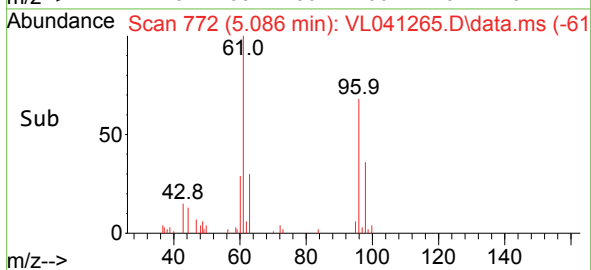
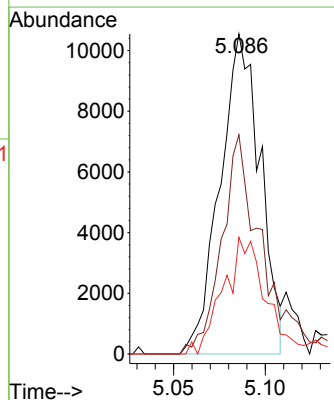
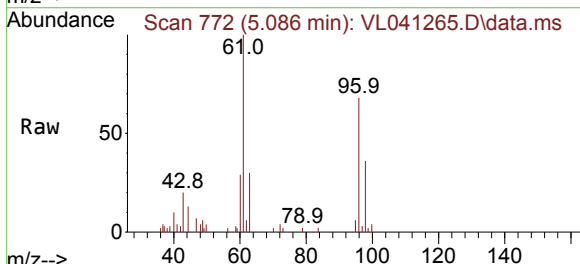
Instrument :
MSVOA_L
ClientSampleId :
SV2

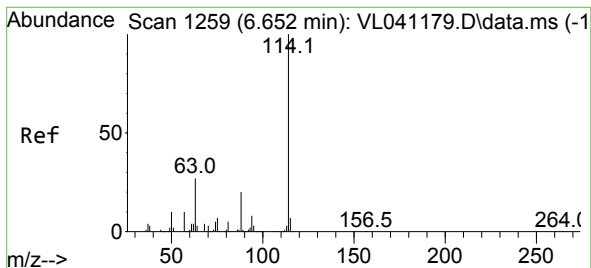
Tgt Ion: 84 Resp: 3221
Ion Ratio Lower Upper
84 100
56 0.0 116.8 175.2#
41 0.0 73.8 110.8#



#31
cis-1,2-Dichloroethene
Concen: 0.151 ppbv
RT: 5.086 min Scan# 772
Delta R.T. -0.000 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

Tgt Ion: 61 Resp: 16124
Ion Ratio Lower Upper
61 100
96 68.5 49.8 74.6
98 38.2 30.0 45.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 1

Delta R.T. -0.000 min

Lab File: VL041265.D

Acq: 21 May 2024 14:53

Instrument :

MSVOA_L

ClientSampleId :

SV2

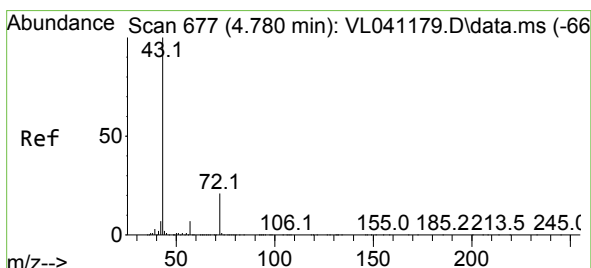
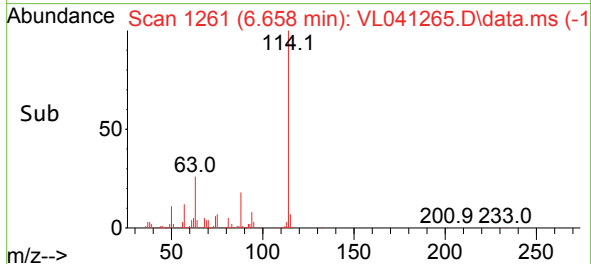
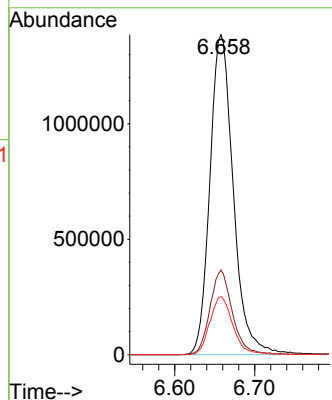
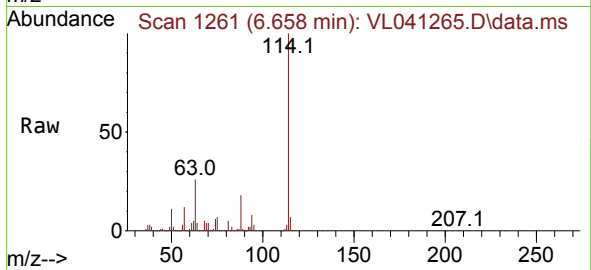
Tgt Ion:114 Resp: 2814199

Ion Ratio Lower Upper

114 100

63 25.6 21.8 32.6

88 18.0 15.2 22.8



#34

2-Butanone

Concen: 5.970 ppbv

RT: 4.796 min Scan# 682

Delta R.T. 0.003 min

Lab File: VL041265.D

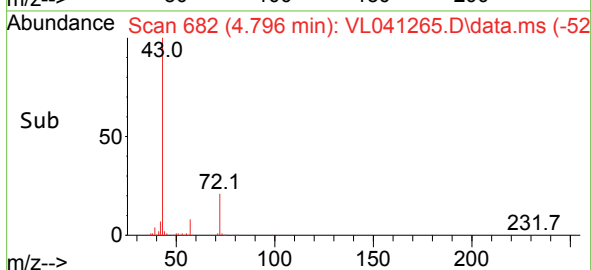
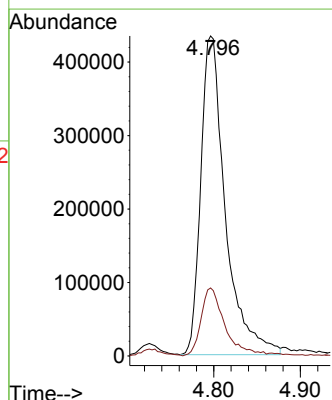
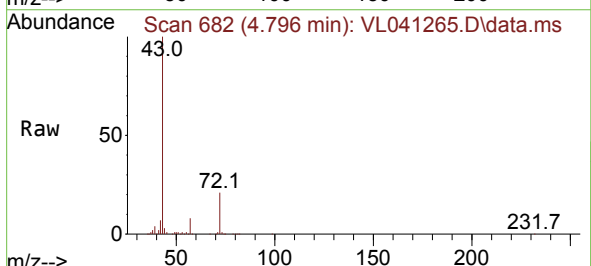
Acq: 21 May 2024 14:53

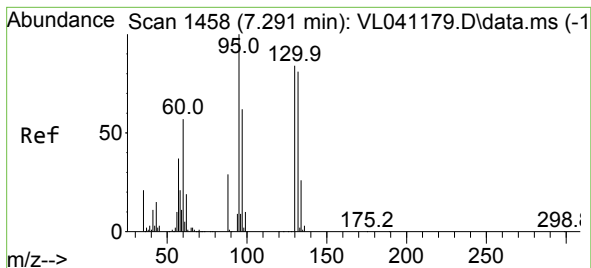
Tgt Ion: 43 Resp: 855134

Ion Ratio Lower Upper

43 100

72 21.9 17.3 25.9





#38

Trichloroethene

Concen: 3.634 ppbv

RT: 7.298 min Scan# 1458

Delta R.T. 0.006 min

Lab File: VL041265.D

Acq: 21 May 2024 14:53

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion:130 Resp: 319830

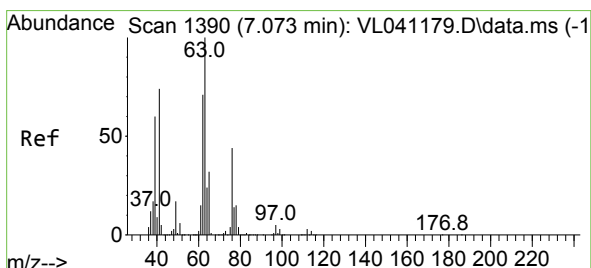
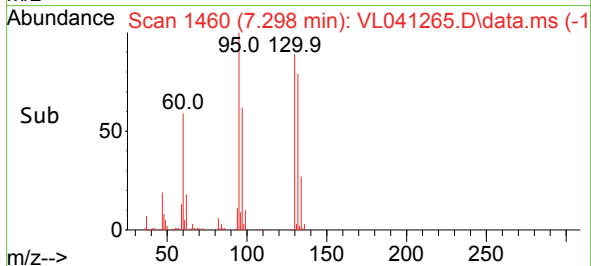
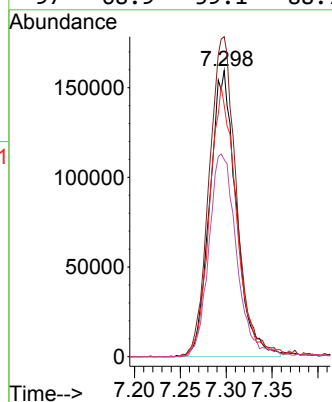
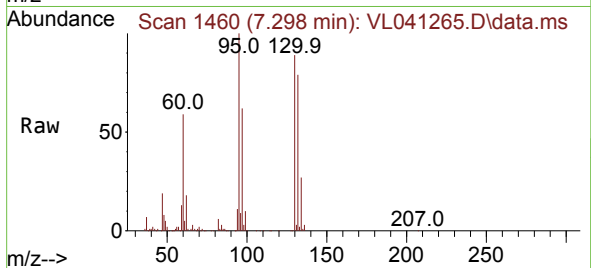
Ion Ratio Lower Upper

130 100

95 111.6 95.0 142.6

132 87.9 77.0 115.4

97 68.9 59.1 88.7



#39

1,2-Dichloropropane

Concen: 7.828 ppbv

RT: 6.658 min Scan# 1261

Delta R.T. -0.418 min

Lab File: VL041265.D

Acq: 21 May 2024 14:53

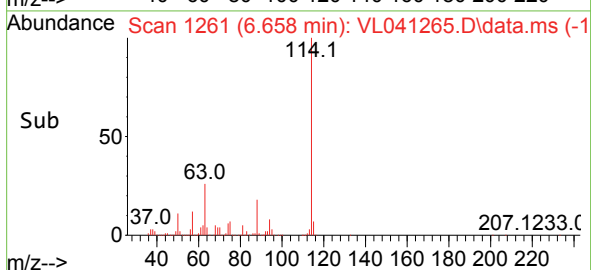
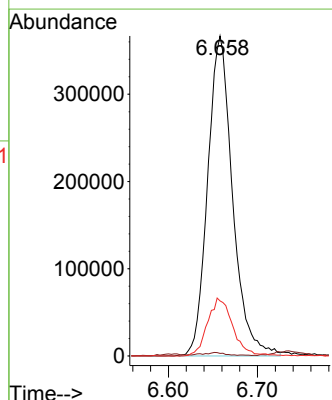
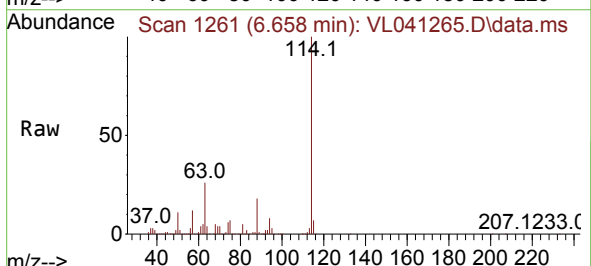
Tgt Ion: 63 Resp: 712468

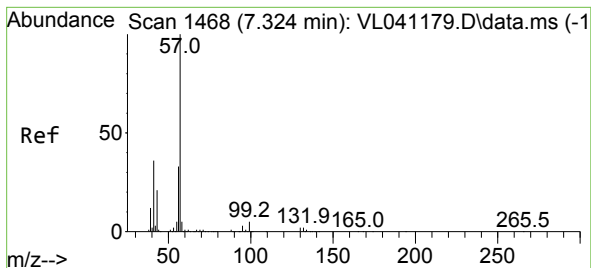
Ion Ratio Lower Upper

63 100

41 0.4 59.4 89.0#

62 17.2 56.8 85.2#





#44

2,2,4-Trimethylpentane

Concen: 0.067 ppbv

RT: 7.330 min Scan# 1468

Delta R.T. 0.003 min

Lab File: VL041265.D

Acq: 21 May 2024 14:53

Instrument :

MSVOA_L

ClientSampleId :

SV2

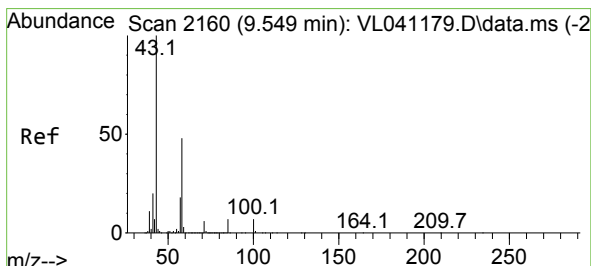
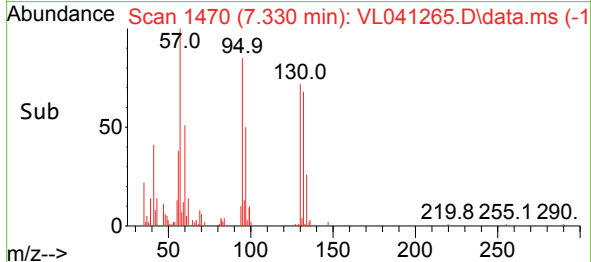
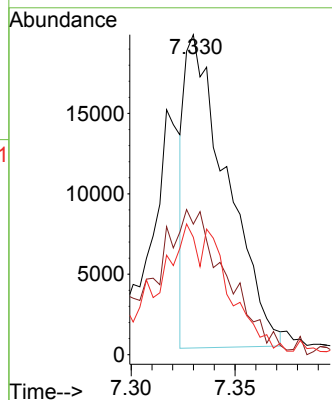
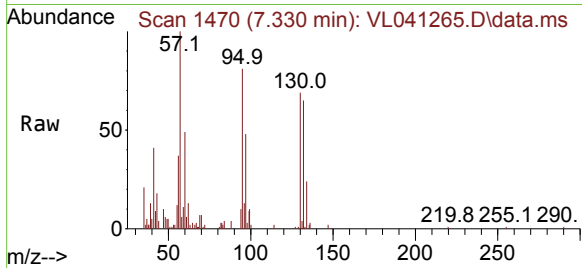
Tgt Ion: 57 Resp: 27343

Ion Ratio Lower Upper

57 100

41 78.7 29.5 44.3#

56 111.7 25.3 37.9#



#51

2-Hexanone

Concen: 1.040 ppbv

RT: 9.558 min Scan# 2163

Delta R.T. 0.010 min

Lab File: VL041265.D

Acq: 21 May 2024 14:53

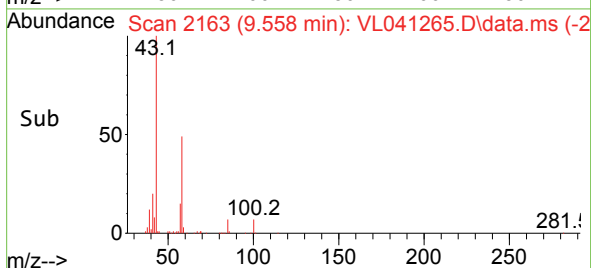
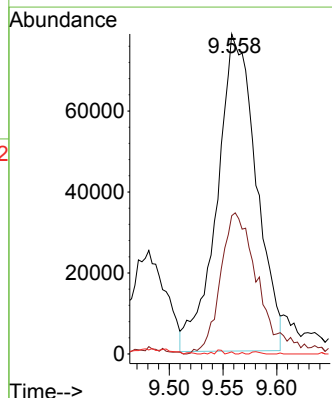
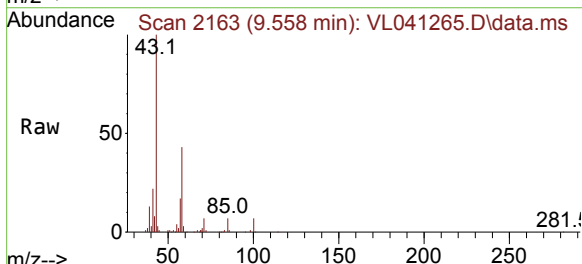
Tgt Ion: 43 Resp: 198384

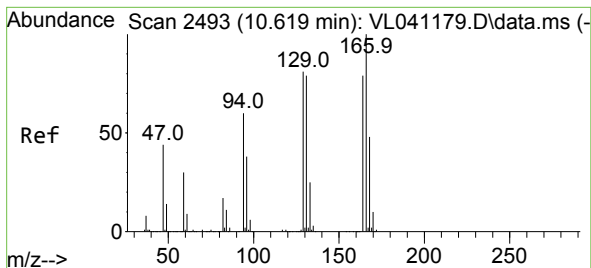
Ion Ratio Lower Upper

43 100

58 44.2 38.4 57.6

98 0.5 0.0 0.0#





#52

Tetrachloroethene

Concen: 46.186 ppbv

RT: 10.622 min Scan# 2494

Delta R.T. 0.006 min

Lab File: VL041265.D

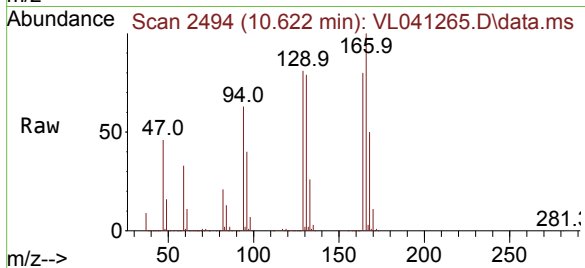
Acq: 21 May 2024 14:53

Instrument :

MSVOA_L

ClientSampleId :

SV2



Tgt Ion:164 Resp: 3833695

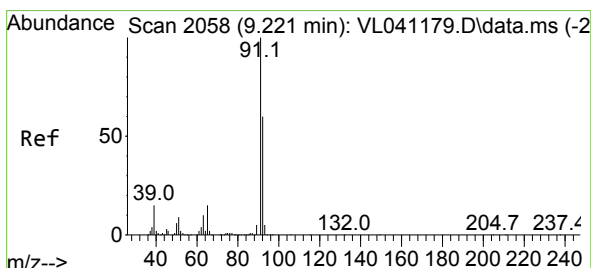
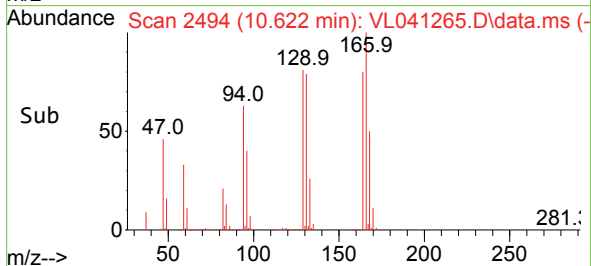
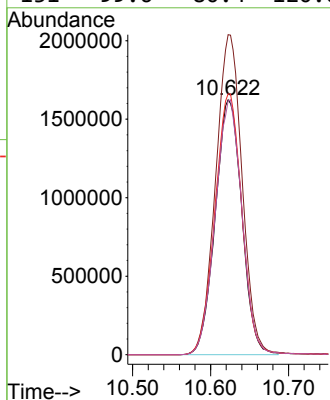
Ion Ratio Lower Upper

164 100

166 125.6 101.1 151.7

129 102.3 81.7 122.5

131 99.6 80.4 120.6



#53

Toluene

Concen: 0.433 ppbv

RT: 9.224 min Scan# 2059

Delta R.T. 0.003 min

Lab File: VL041265.D

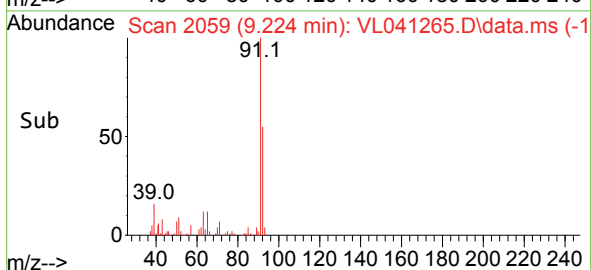
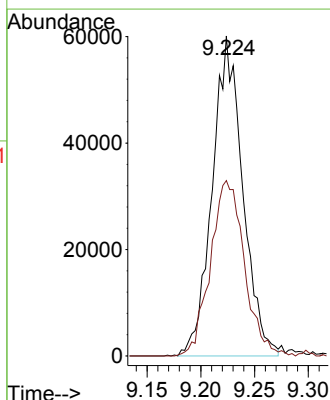
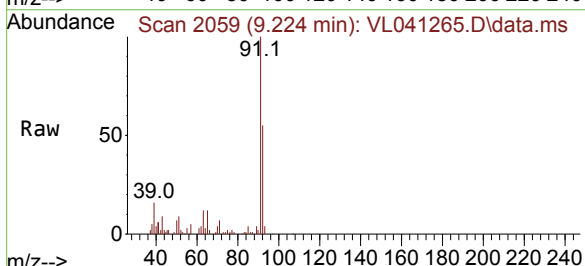
Acq: 21 May 2024 14:53

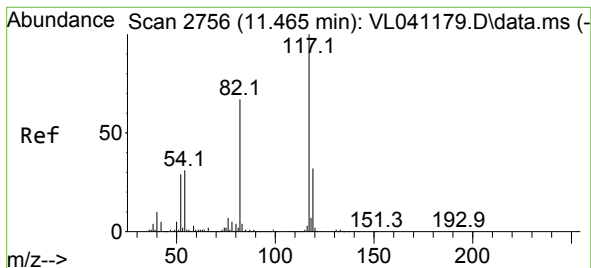
Tgt Ion: 91 Resp: 118524

Ion Ratio Lower Upper

91 100

92 61.1 48.2 72.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.471 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL041265.D

Acq: 21 May 2024 14:53

Instrument :

MSVOA_L

ClientSampleId :

SV2

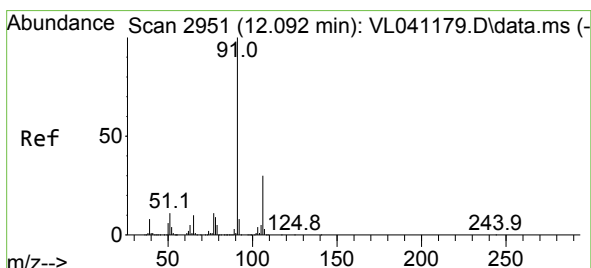
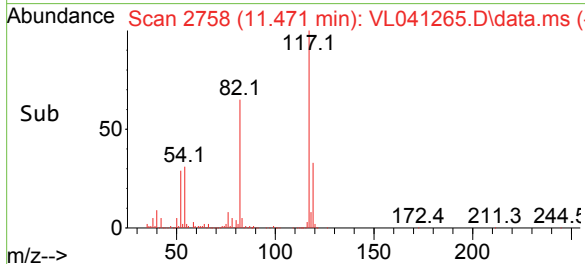
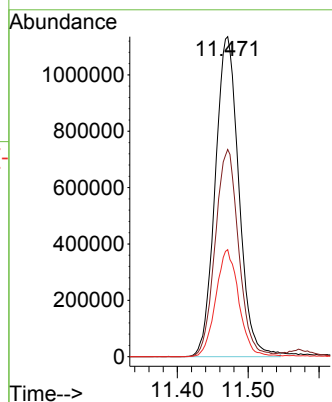
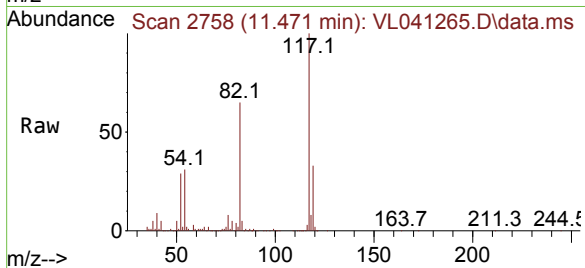
Tgt Ion:117 Resp: 2633845

Ion Ratio Lower Upper

117 100

82 64.2 53.6 80.4

119 33.2 27.2 40.8



#58

Ethyl Benzene

Concen: 0.143 ppbv

RT: 12.089 min Scan# 2950

Delta R.T. 0.003 min

Lab File: VL041265.D

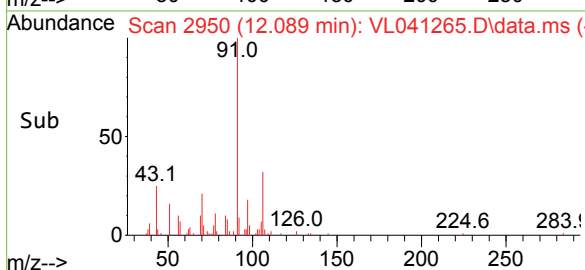
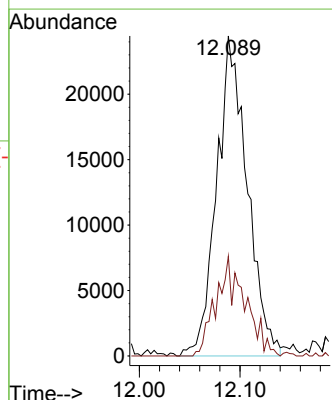
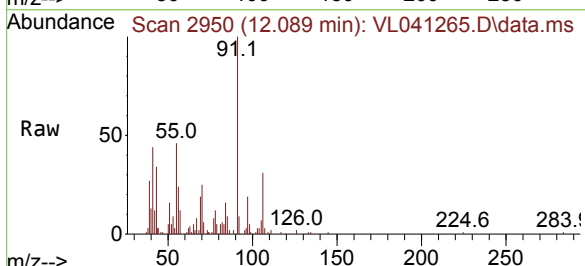
Acq: 21 May 2024 14:53

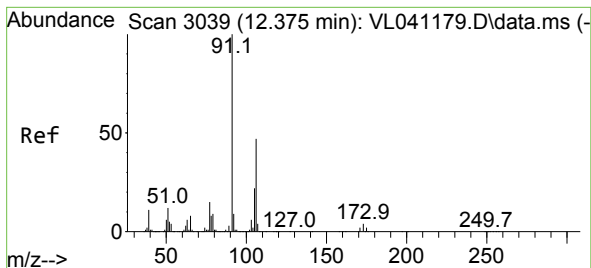
Tgt Ion: 91 Resp: 51527

Ion Ratio Lower Upper

91 100

106 31.2 24.3 36.5





#59

m/p-Xylene

Concen: 0.174 ppbv

RT: 12.359 min Scan# 3039

Delta R.T. -0.007 min

Lab File: VL041265.D

Acq: 21 May 2024 14:53

Instrument :

MSVOA_L

ClientSampleId :

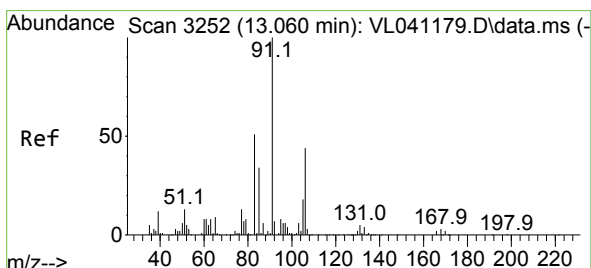
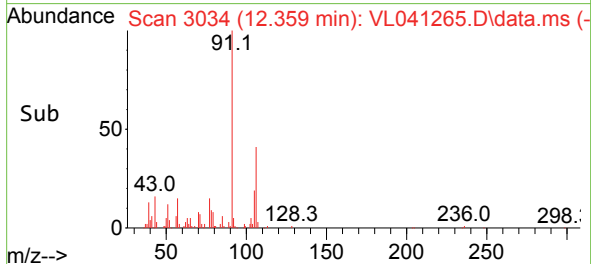
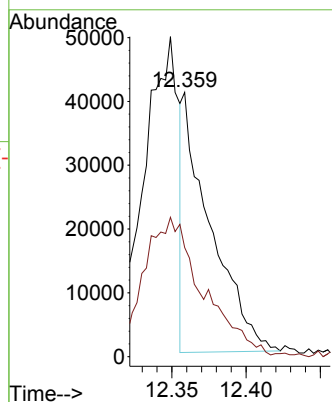
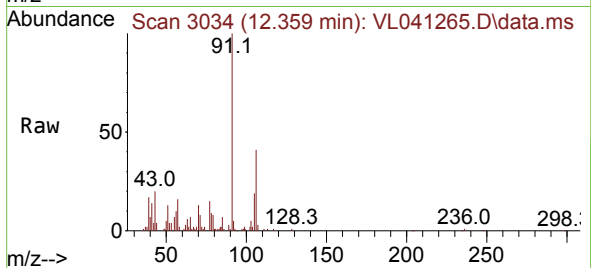
SV2

Tgt Ion: 91 Resp: 52822

Ion Ratio Lower Upper

91 100

106 0.0 35.7 53.5#



#60

o-Xylene

Concen: 0.280 ppbv

RT: 13.060 min Scan# 3252

Delta R.T. 0.003 min

Lab File: VL041265.D

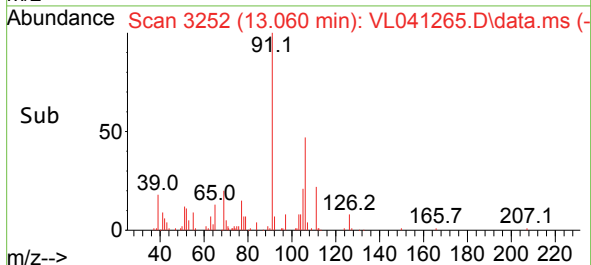
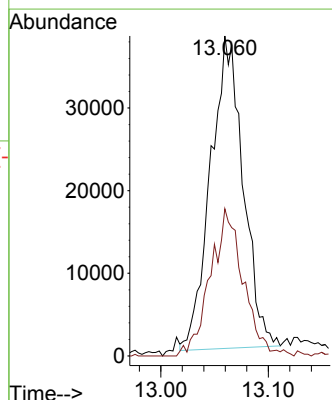
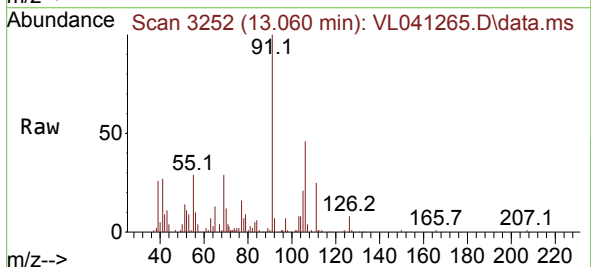
Acq: 21 May 2024 14:53

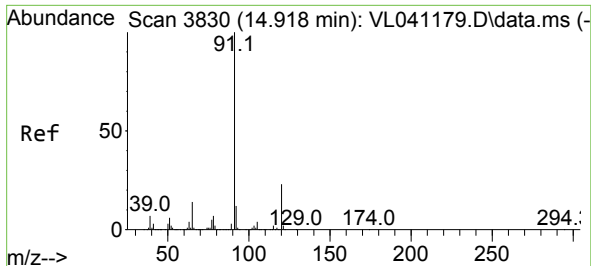
Tgt Ion: 91 Resp: 79785

Ion Ratio Lower Upper

91 100

106 47.8 22.4 67.3

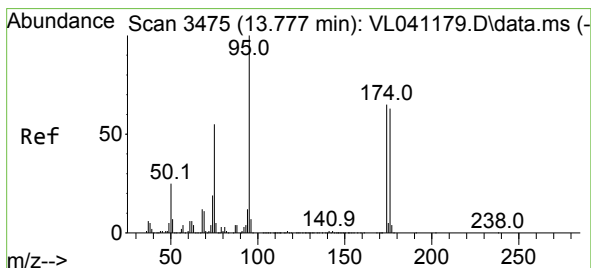
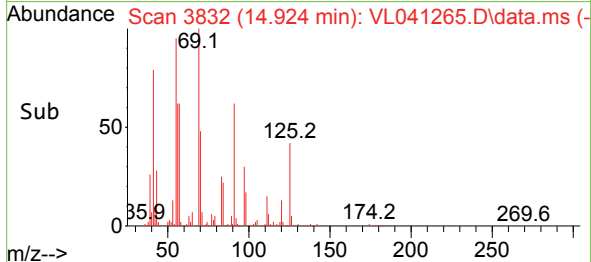
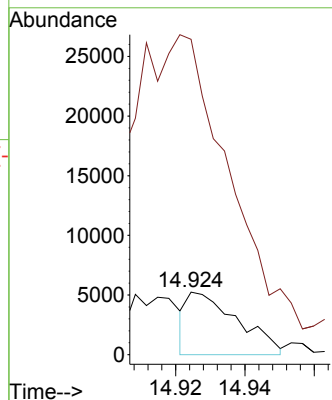
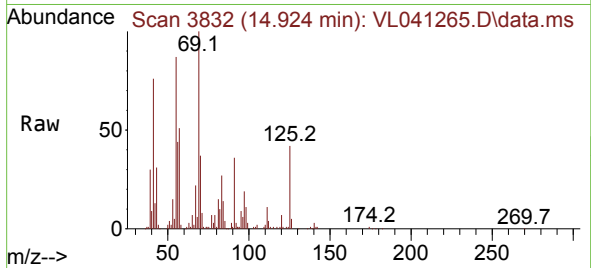




#64
n-propylbenzene
Concen: 0.050 ppbv
RT: 14.924 min Scan# 3830
Delta R.T. 0.013 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

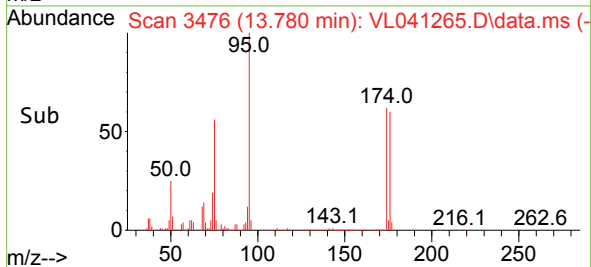
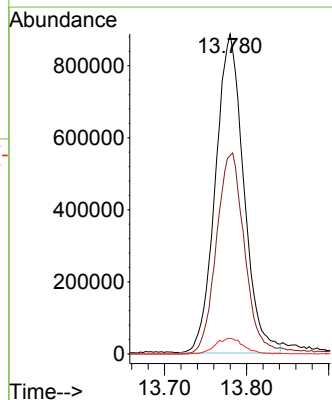
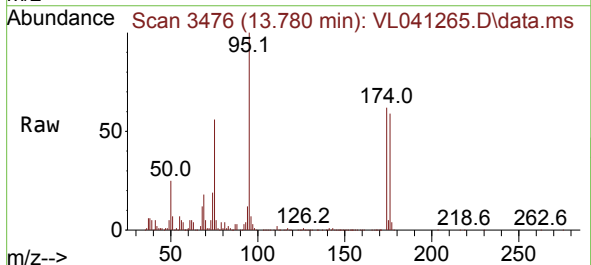
Instrument :
MSVOA_L
ClientSampleId :
SV2

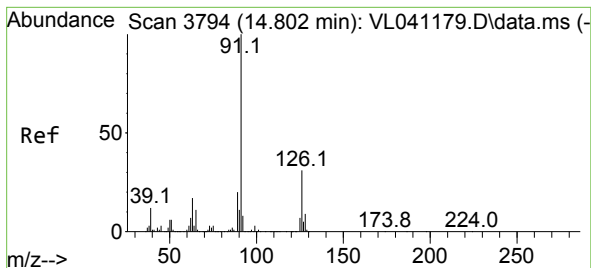
Tgt Ion:120 Resp: 5315
Ion Ratio Lower Upper
120 100
91 1304.5 384.8 577.2#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.685 ppbv
RT: 13.780 min Scan# 3476
Delta R.T. 0.006 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

Tgt Ion: 95 Resp: 2124638
Ion Ratio Lower Upper
95 100
174 64.7 53.6 80.4
175 5.0 4.2 6.4

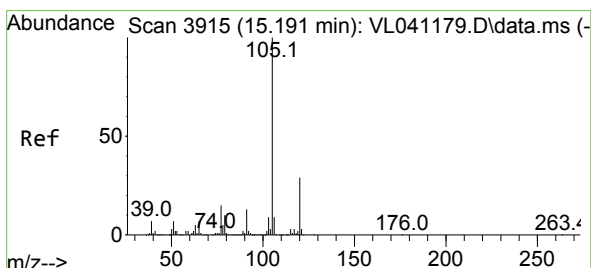
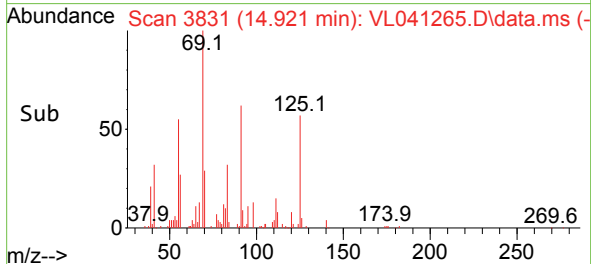
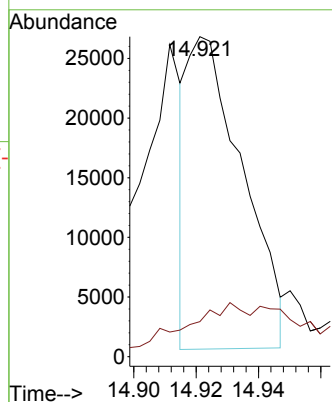
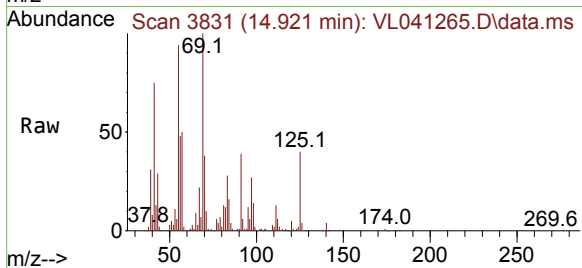




#71
2-Chlorotoluene
Concen: 0.099 ppbv
RT: 14.921 min Scan# 3831
Delta R.T. 0.125 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

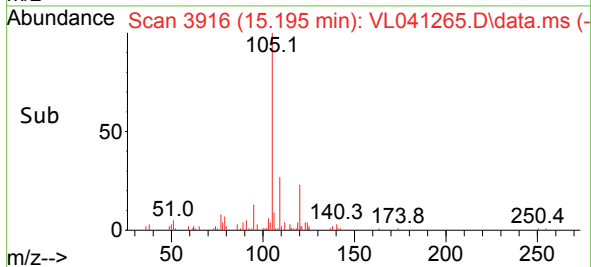
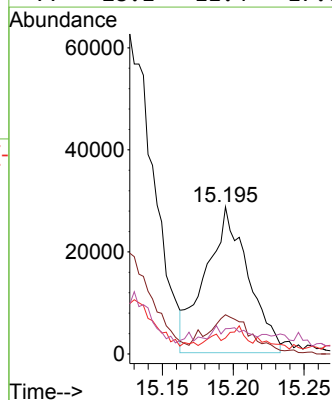
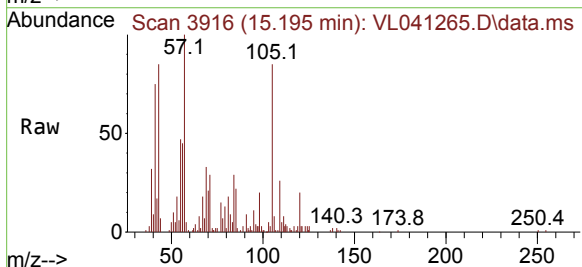
Instrument :
MSVOA_L
ClientSampleId :
SV2

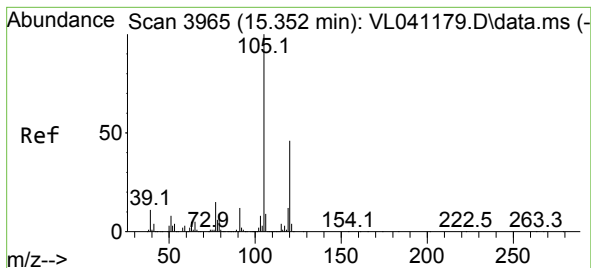
Tgt Ion: 91 Resp: 32167
Ion Ratio Lower Upper
91 100
126 40.6 12.2 48.8



#72
4-Ethyltoluene
Concen: 0.185 ppbv
RT: 15.195 min Scan# 3916
Delta R.T. 0.006 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

Tgt Ion: 105 Resp: 59573
Ion Ratio Lower Upper
105 100
120 28.6 24.7 37.1
91 18.2 10.3 15.5#
77 28.1 11.4 17.0#





#73

1,3,5-Trimethylbenzene

Concen: 0.248 ppbv

RT: 15.358 min Scan# 3965

Delta R.T. 0.013 min

Lab File: VL041265.D

Acq: 21 May 2024 14:53

Instrument :

MSVOA_L

ClientSampleId :

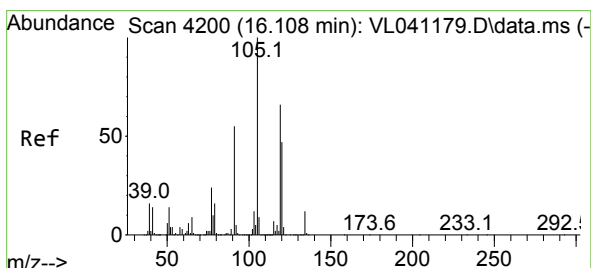
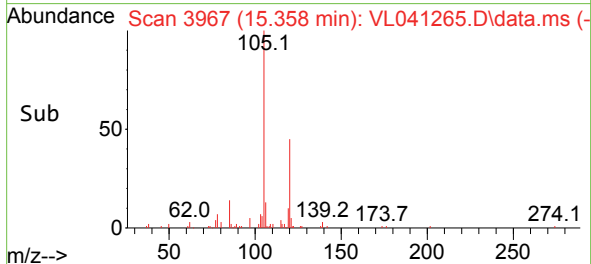
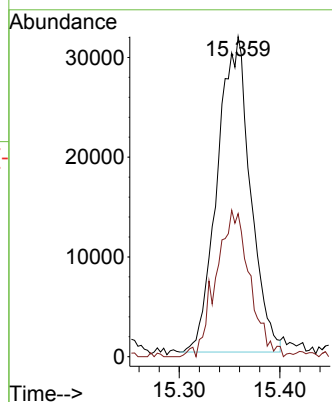
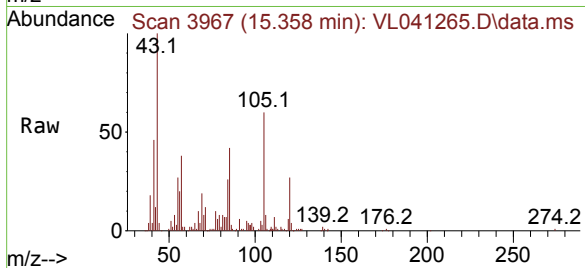
SV2

Tgt Ion:105 Resp: 72379

Ion Ratio Lower Upper

105 100

120 45.4 37.0 55.4



#74

1,2,4-Trimethylbenzene

Concen: 0.789 ppbv

RT: 16.104 min Scan# 4199

Delta R.T. -0.000 min

Lab File: VL041265.D

Acq: 21 May 2024 14:53

Tgt Ion:105 Resp: 251413

Ion Ratio Lower Upper

105 100

120 40.4 37.8 56.6

91 11.1 44.3 66.5#

77 13.0 19.0 28.4#

