

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122123\
 Data File : VL040940.D
 Acq On : 21 Dec 2023 21:42
 Operator : SY/MD
 Sample : 05848-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Quant Time: Dec 22 00:12:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 21 07:32:42 2023
 Response via : Initial Calibration

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

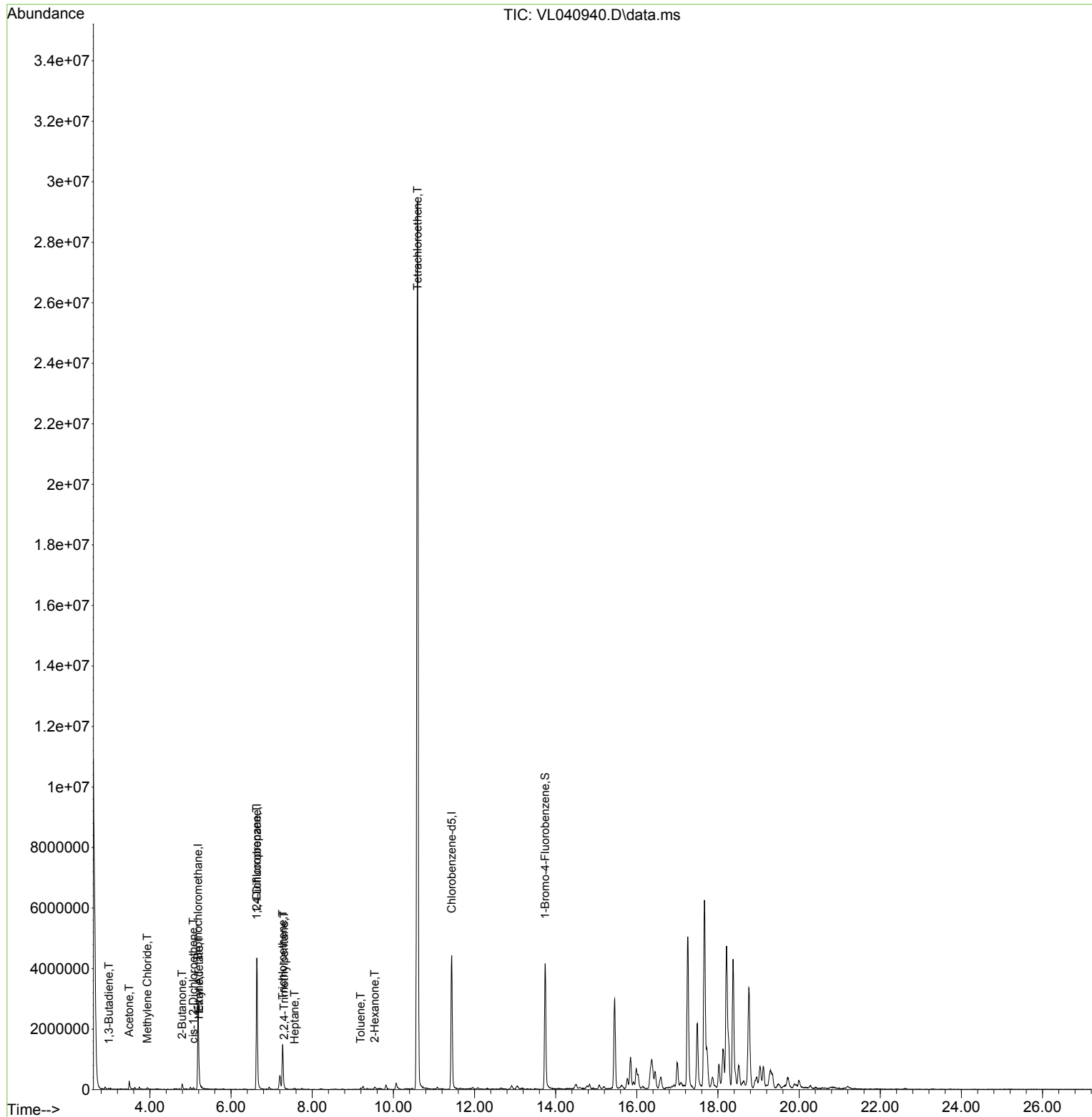
Internal Standards						
1) Bromochloromethane	5.185	49	1266309	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.635	114	3455702	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.439	117	3014147	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.741	95	2149135	9.680	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.800%
Target Compounds						
					Qvalue	
10) Heptane	7.565	43	5706	0.037	ppbv #	1
15) Acetone	3.491	43	265573	1.749	ppbv #	90
16) 1,3-Butadiene	2.986	39	6594	0.101	ppbv #	9
20) Methylene Chloride	3.938	84	8666	0.160	ppbv	94
25) Ethyl Acetate	5.208	43	117323	0.446	ppbv #	82
26) Hexane	5.211	57	70009	0.600	ppbv #	37
31) cis-1,2-Dichloroethene	5.070	61	29077	0.243	ppbv	91
34) 2-Butanone	4.793	43	223526	1.223	ppbv	93
38) Trichloroethene	7.272	130	466109	4.594	ppbv	95
39) 1,2-Dichloropropane	6.632	63	812106	7.650	ppbv #	23
44) 2,2,4-Trimethylpentane	7.307	57	19152	0.042	ppbv #	1
51) 2-Hexanone	9.539	43	39581	0.199	ppbv #	41
52) Tetrachloroethene	10.597	164	8356150	91.824	ppbv	92
53) Toluene	9.192	91	30212	0.101	ppbv	98

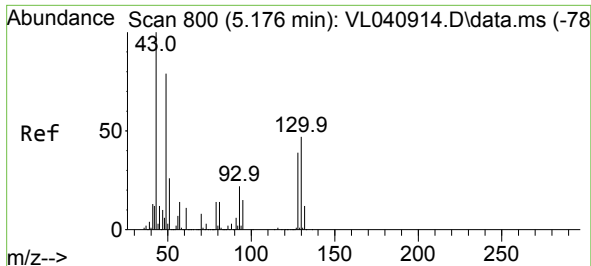
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 22 00:12:06 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Dec 21 07:32:42 2023
Response via : Initial Calibration

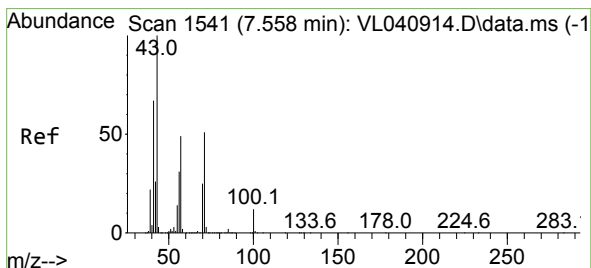
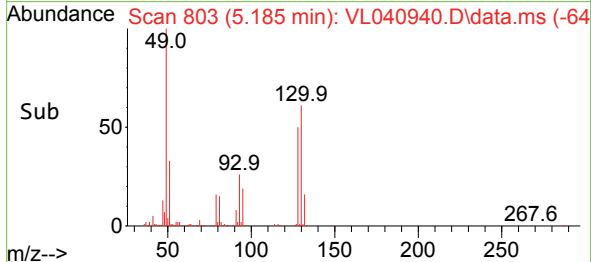
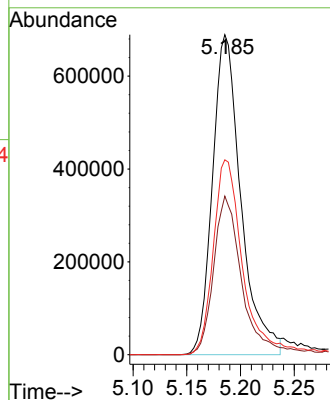
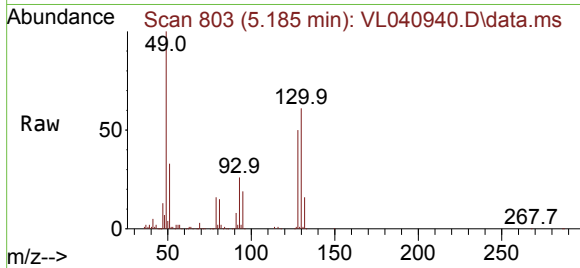




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.185 min Scan# 800
Delta R.T. 0.009 min
Lab File: VL040940.D
Acq: 21 Dec 2023 21:42

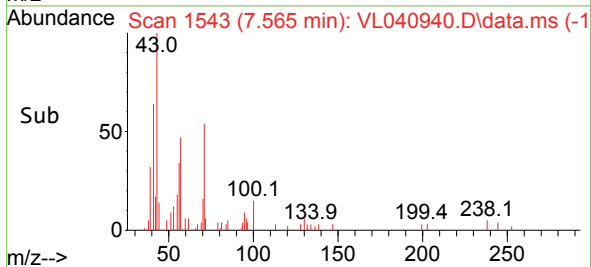
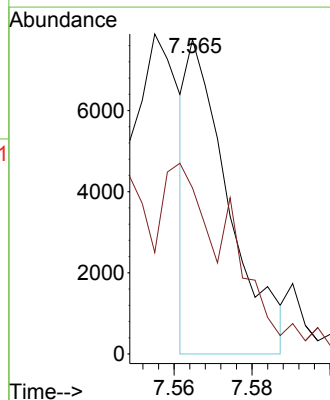
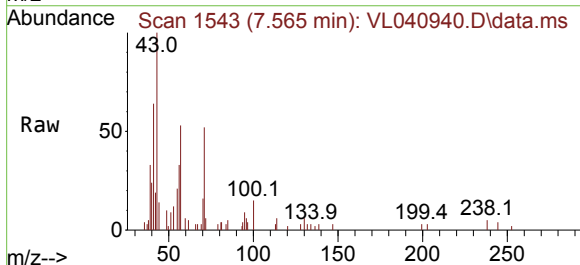
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

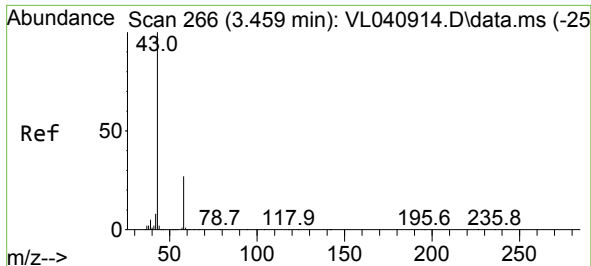
Tgt Ion: 49 Resp: 1266309
Ion Ratio Lower Upper
49 100
128 51.2 23.8 71.2
130 65.0 30.1 90.5



#10
Heptane
Concen: 0.037 ppbv
RT: 7.565 min Scan# 1543
Delta R.T. 0.007 min
Lab File: VL040940.D
Acq: 21 Dec 2023 21:42

Tgt Ion: 43 Resp: 5706
Ion Ratio Lower Upper
43 100
57 182.4 39.3 58.9#





#15

Acetone

Concen: 1.749 ppbv

RT: 3.491 min Scan# 21

Delta R.T. 0.032 min

Lab File: VL040940.D

Acq: 21 Dec 2023 21:42

Instrument :

MSVOA_L

ClientSampleId :

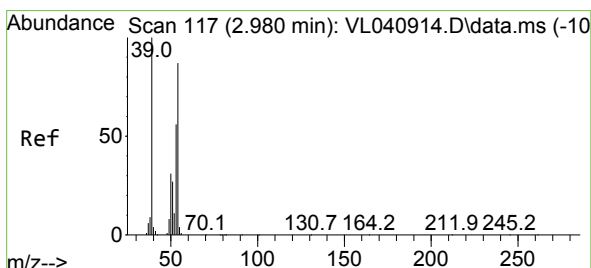
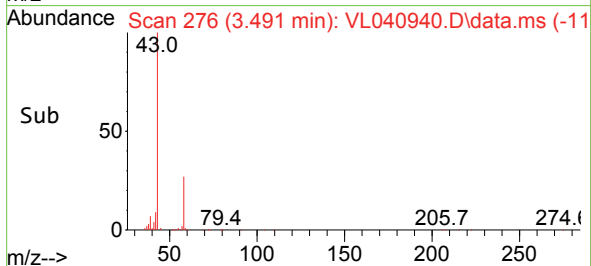
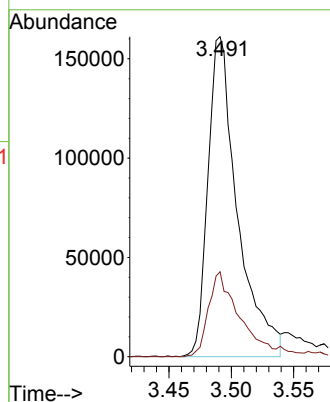
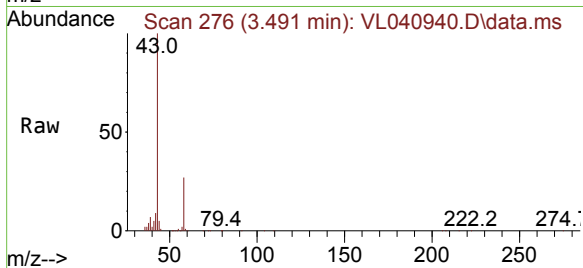
SV2DL

Tgt Ion: 43 Resp: 265573

Ion Ratio Lower Upper

43 100

58 31.0 20.6 30.8#



#16

1,3-Butadiene

Concen: 0.101 ppbv

RT: 2.986 min Scan# 119

Delta R.T. 0.007 min

Lab File: VL040940.D

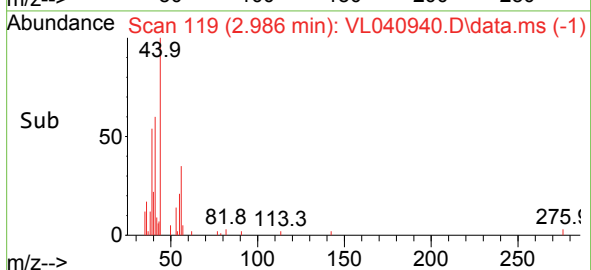
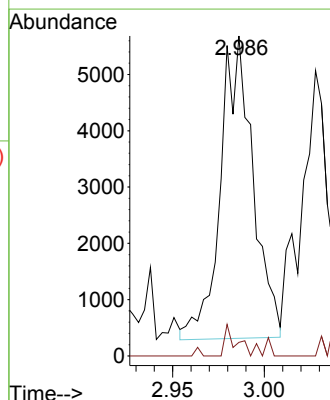
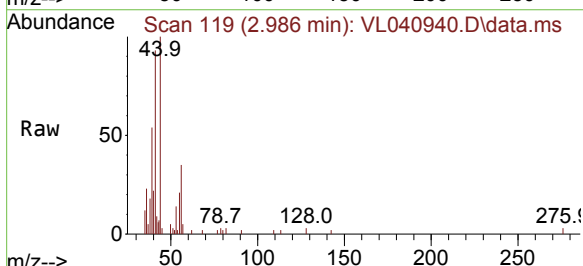
Acq: 21 Dec 2023 21:42

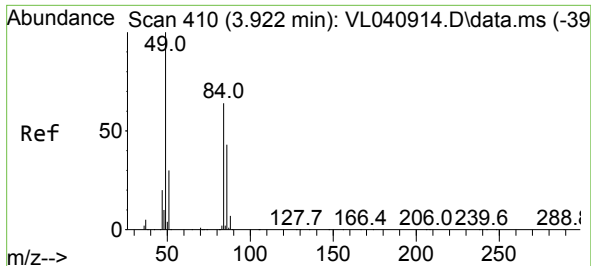
Tgt Ion: 39 Resp: 6594

Ion Ratio Lower Upper

39 100

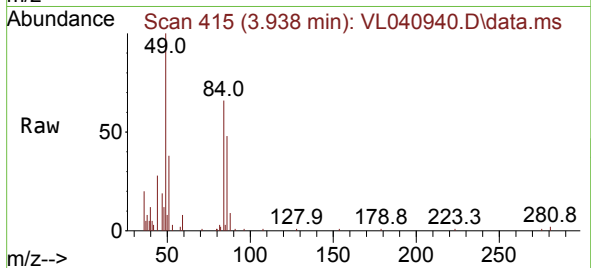
54 0.0 63.8 95.6#



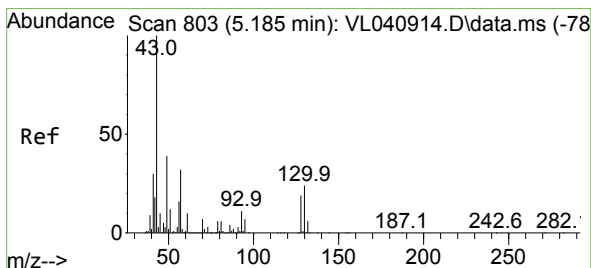
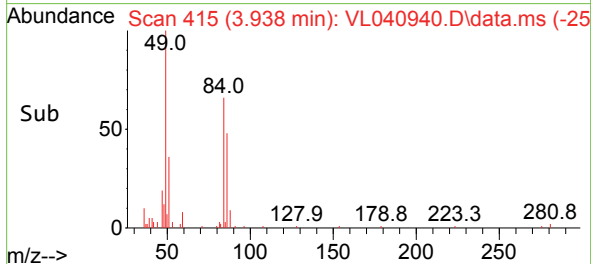
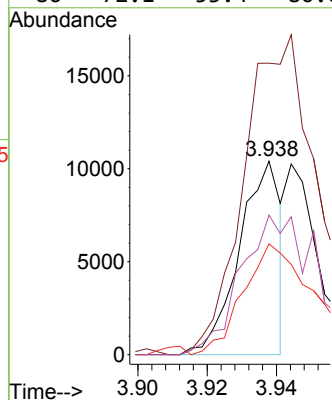


#20
Methylene Chloride
Concen: 0.160 ppbv
RT: 3.938 min Scan# 410
Delta R.T. 0.016 min
Lab File: VL040940.D
Acq: 21 Dec 2023 21:42

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

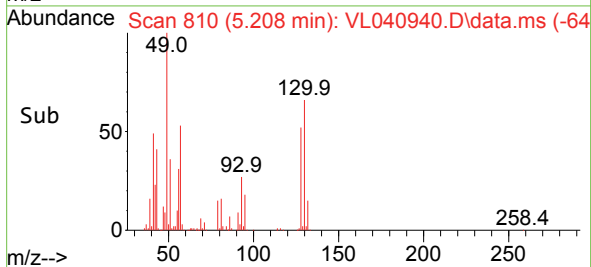
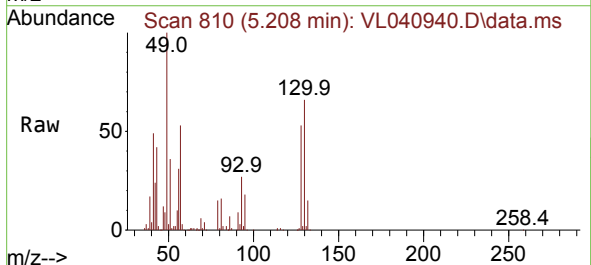
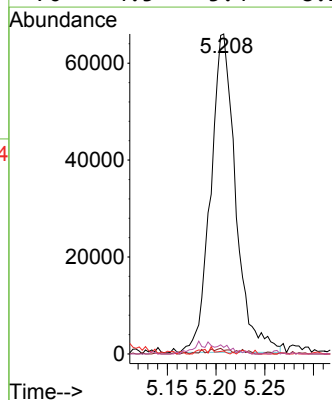


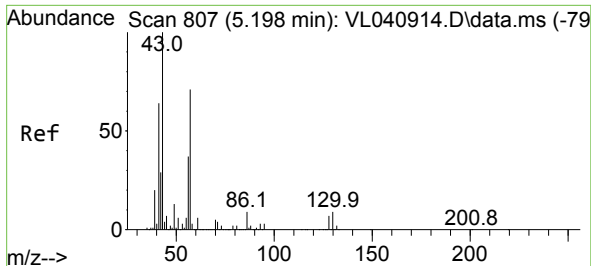
Tgt Ion: 84 Resp: 8666
Ion Ratio Lower Upper
84 100
49 150.6 124.6 187.0
51 53.0 37.2 55.8
86 72.1 53.4 80.0



#25
Ethyl Acetate
Concen: 0.446 ppbv
RT: 5.208 min Scan# 810
Delta R.T. 0.023 min
Lab File: VL040940.D
Acq: 21 Dec 2023 21:42

Tgt Ion: 43 Resp: 117323
Ion Ratio Lower Upper
43 100
45 2.7 8.2 12.2#
61 1.1 7.6 11.4#
70 4.5 5.4 8.2#

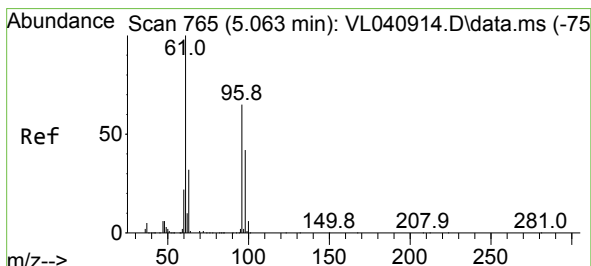
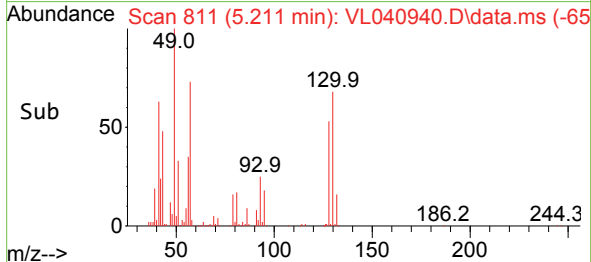
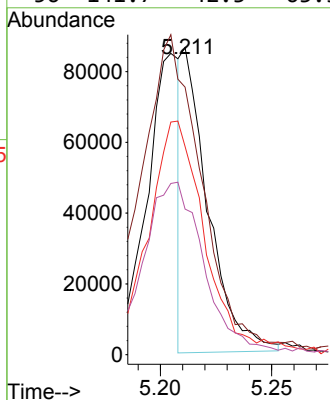
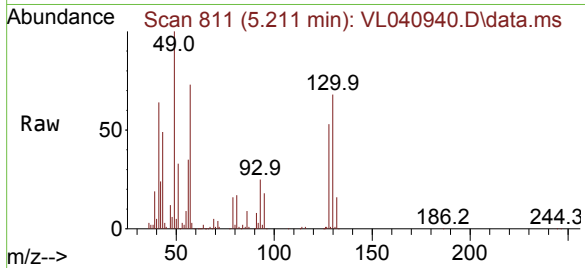




#26
Hexane
Concen: 0.600 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.013 min
Lab File: VL040940.D
Acq: 21 Dec 2023 21:42

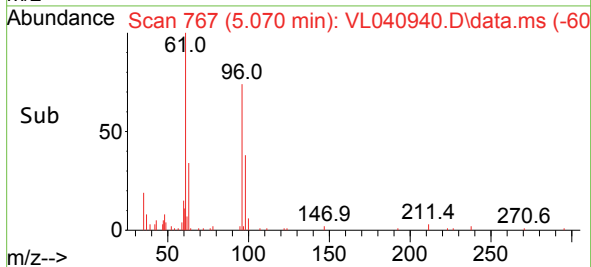
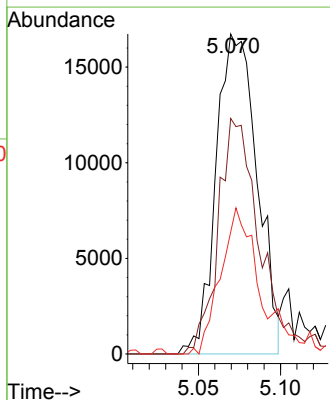
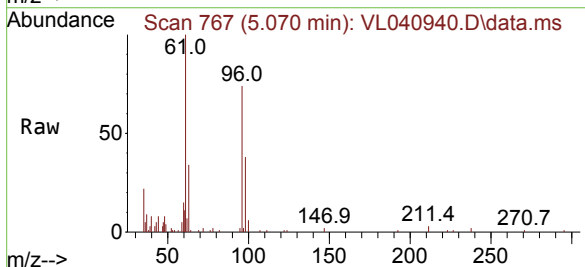
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

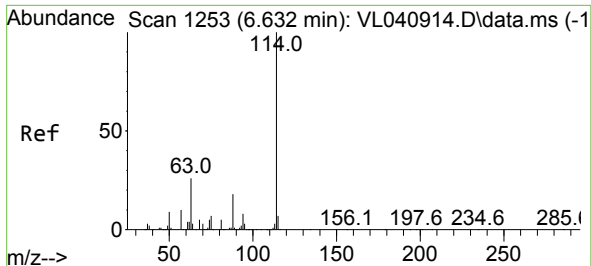
Tgt Ion: 57 Resp: 70009
Ion Ratio Lower Upper
57 100
41 0.0 75.2 112.8#
43 176.4 188.0 282.0#
56 141.7 42.3 63.5#



#31
cis-1,2-Dichloroethene
Concen: 0.243 ppbv
RT: 5.070 min Scan# 767
Delta R.T. 0.007 min
Lab File: VL040940.D
Acq: 21 Dec 2023 21:42

Tgt Ion: 61 Resp: 29077
Ion Ratio Lower Upper
61 100
96 73.6 51.7 77.5
98 38.1 33.2 49.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.635 min Scan# 114

Delta R.T. 0.003 min

Lab File: VL040940.D

Acq: 21 Dec 2023 21:42

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

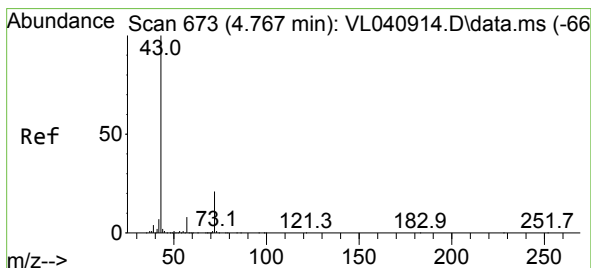
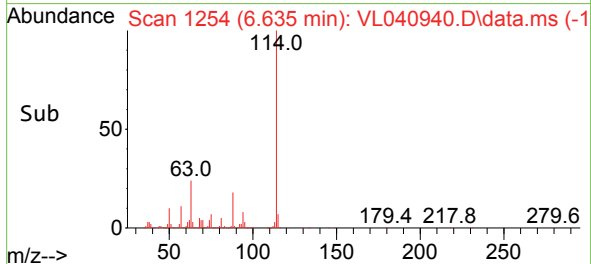
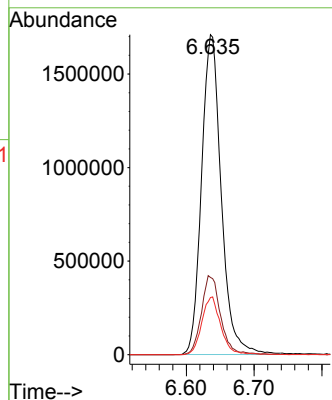
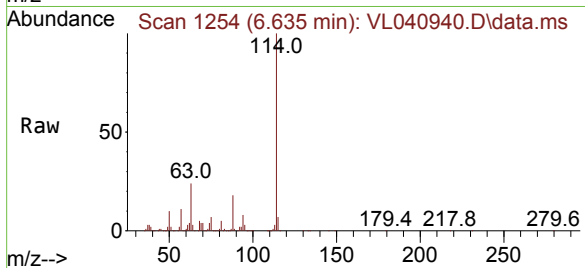
Tgt Ion:114 Resp: 3455702

Ion Ratio Lower Upper

114 100

63 24.1 21.0 31.6

88 17.5 14.3 21.5



#34

2-Butanone

Concen: 1.223 ppbv

RT: 4.793 min Scan# 681

Delta R.T. 0.026 min

Lab File: VL040940.D

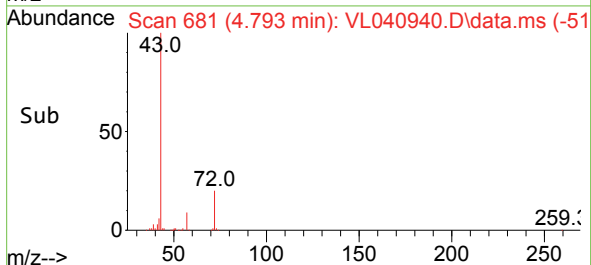
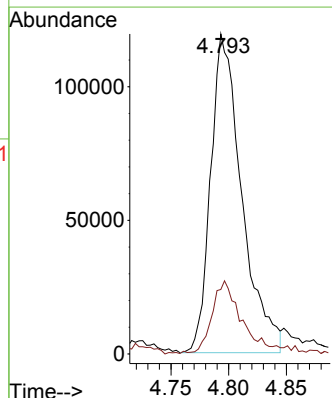
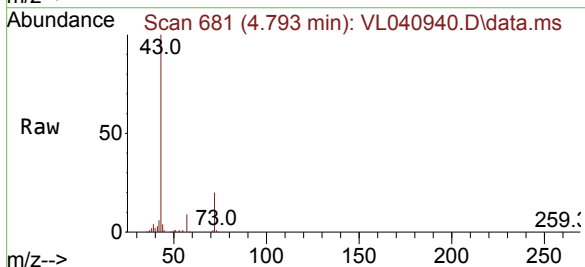
Acq: 21 Dec 2023 21:42

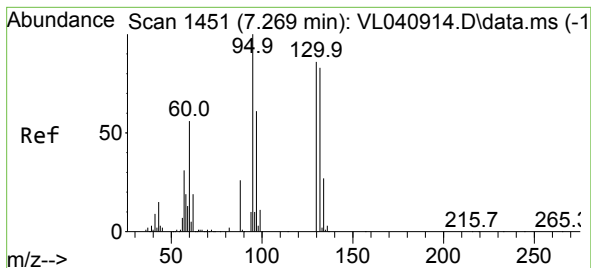
Tgt Ion: 43 Resp: 223526

Ion Ratio Lower Upper

43 100

72 24.7 17.2 25.8





#38

Trichloroethene

Concen: 4.594 ppbv

RT: 7.272 min Scan# 1451

Delta R.T. 0.003 min

Lab File: VL040940.D

Acq: 21 Dec 2023 21:42

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

Tgt Ion:130 Resp: 466109

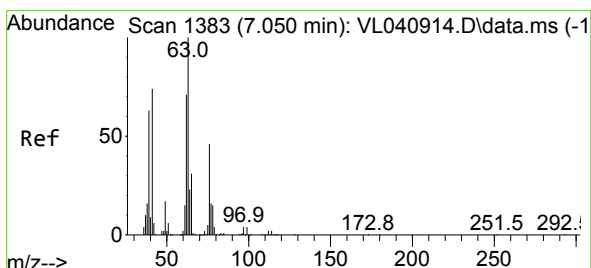
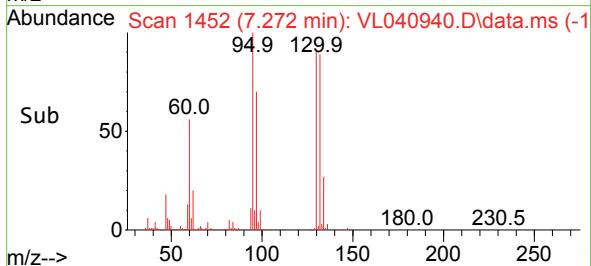
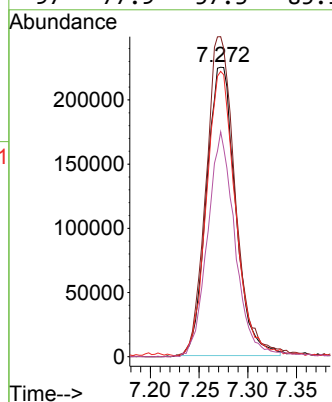
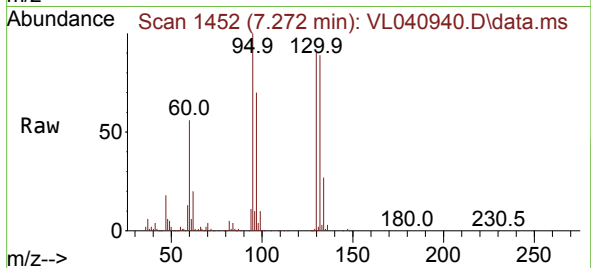
Ion Ratio Lower Upper

130 100

95 110.1 93.5 140.3

132 98.4 77.4 116.2

97 77.9 57.3 85.9



#39

1,2-Dichloropropane

Concen: 7.650 ppbv

RT: 6.632 min Scan# 1253

Delta R.T. -0.418 min

Lab File: VL040940.D

Acq: 21 Dec 2023 21:42

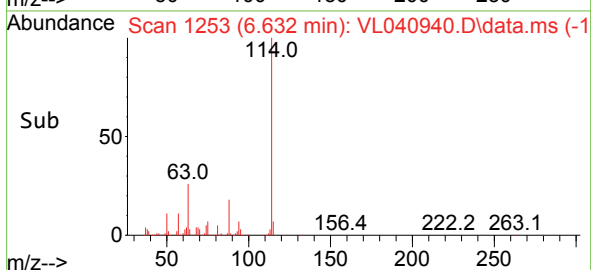
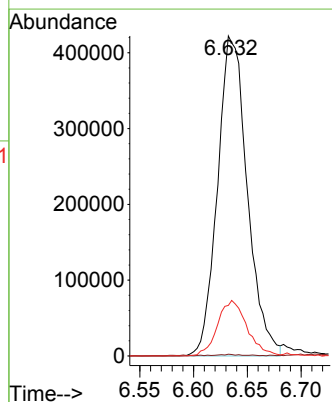
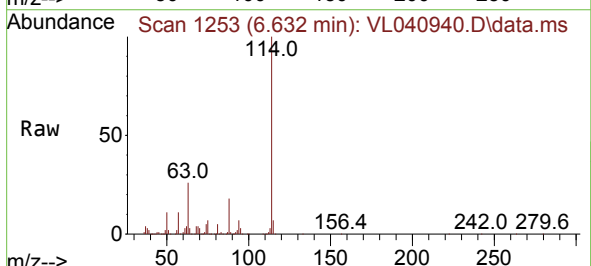
Tgt Ion: 63 Resp: 812106

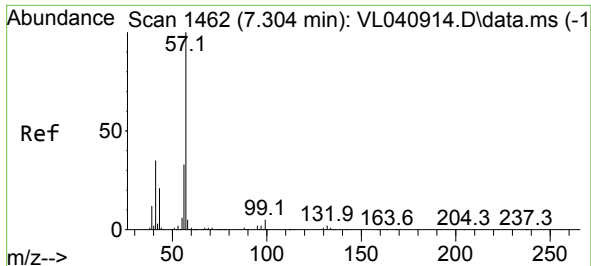
Ion Ratio Lower Upper

63 100

41 0.4 59.0 88.6#

62 15.8 56.6 85.0#

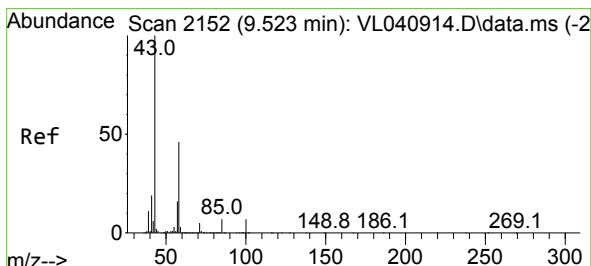
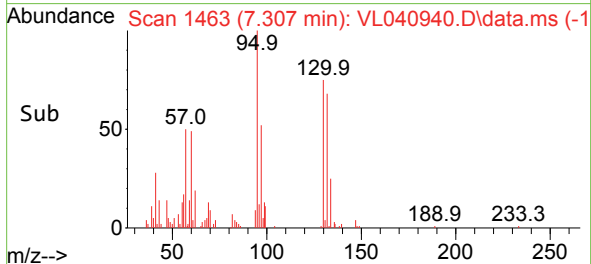
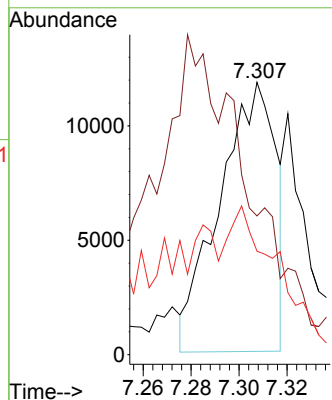
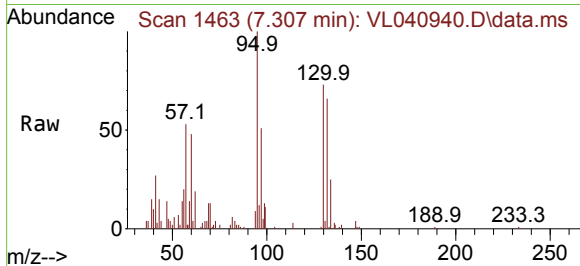




#44
2,2,4-Trimethylpentane
Concen: 0.042 ppbv
RT: 7.307 min Scan# 1463
Delta R.T. 0.003 min
Lab File: VL040940.D
Acq: 21 Dec 2023 21:42

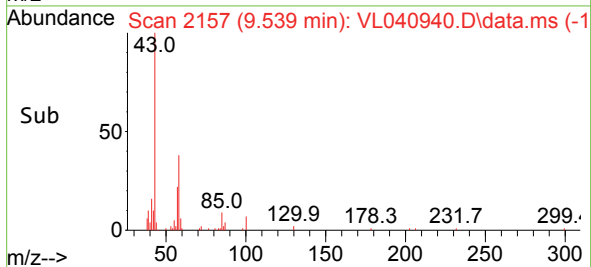
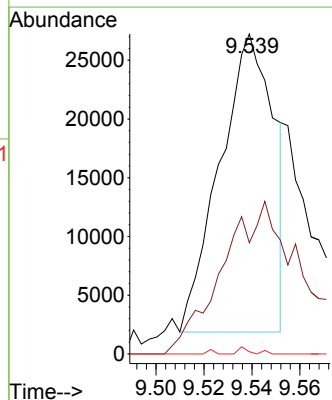
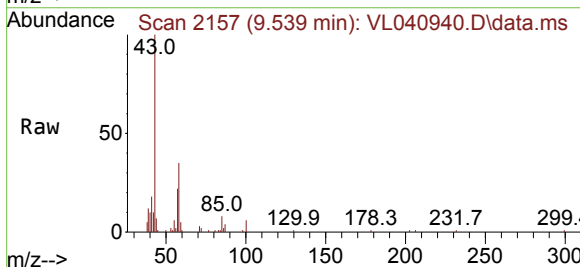
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

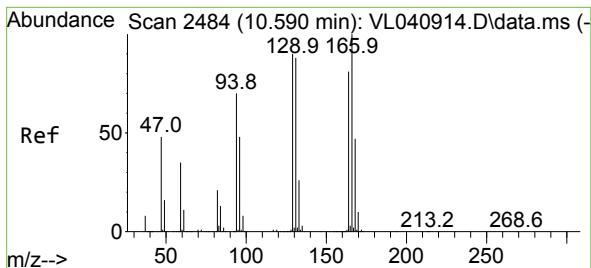
Tgt Ion: 57 Resp: 19152
Ion Ratio Lower Upper
57 100
41 0.0 28.2 42.4#
56 119.3 25.3 37.9#



#51
2-Hexanone
Concen: 0.199 ppbv
RT: 9.539 min Scan# 2157
Delta R.T. 0.016 min
Lab File: VL040940.D
Acq: 21 Dec 2023 21:42

Tgt Ion: 43 Resp: 39581
Ion Ratio Lower Upper
43 100
58 86.3 37.3 55.9#
98 0.7 0.2 0.2#





#52

Tetrachloroethene

Concen: 91.824 ppbv

RT: 10.597 min Scan# 2486

Delta R.T. 0.007 min

Lab File: VL040940.D

Acq: 21 Dec 2023 21:42

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

Tgt Ion:164 Resp: 8356150

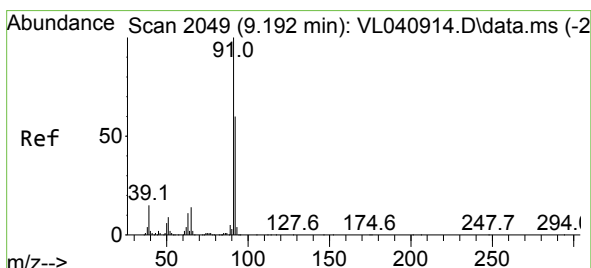
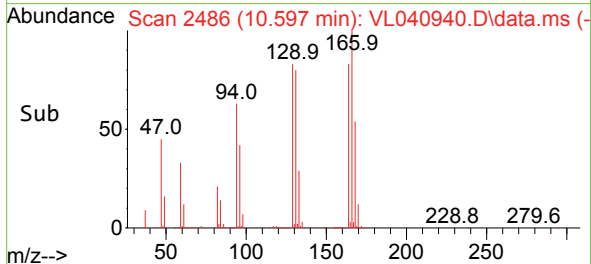
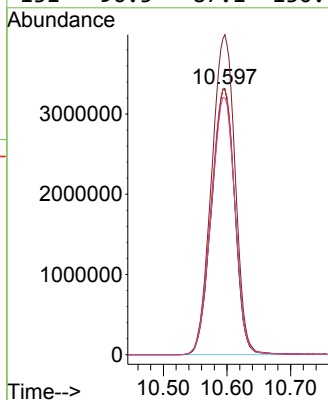
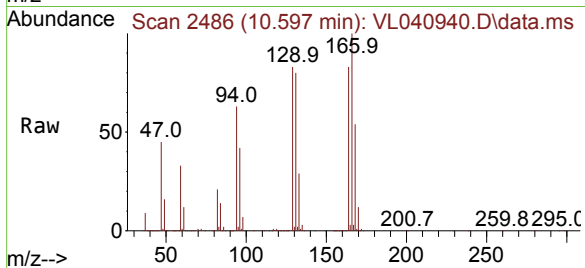
Ion Ratio Lower Upper

164 100

166 120.3 98.9 148.3

129 99.5 88.7 133.1

131 96.5 87.1 130.7



#53

Toluene

Concen: 0.101 ppbv

RT: 9.192 min Scan# 2049

Delta R.T. 0.000 min

Lab File: VL040940.D

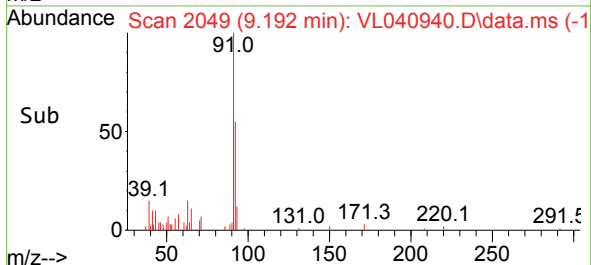
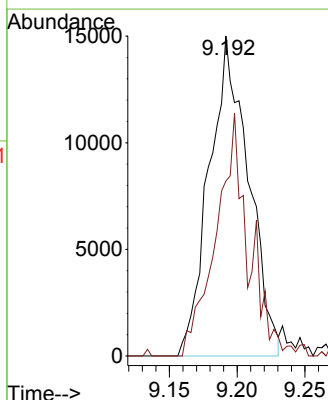
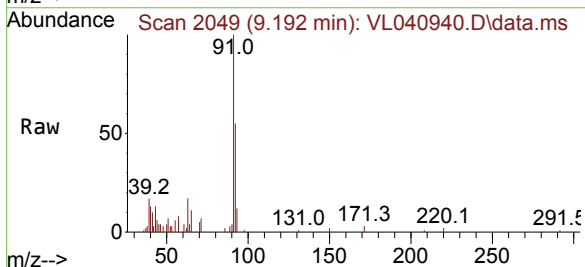
Acq: 21 Dec 2023 21:42

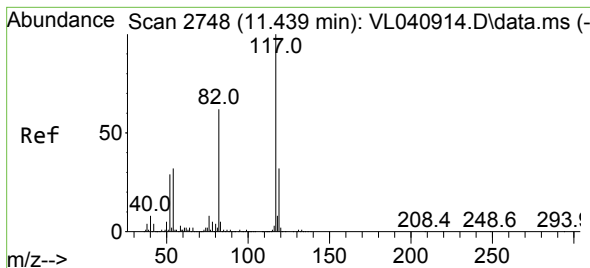
Tgt Ion: 91 Resp: 30212

Ion Ratio Lower Upper

91 100

92 63.0 49.2 73.8

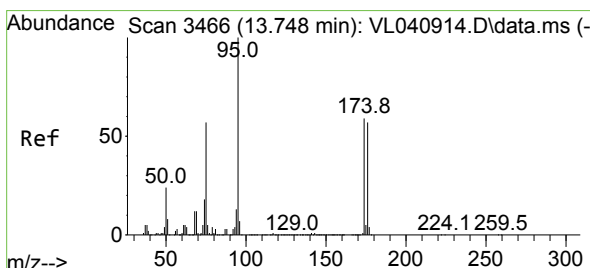
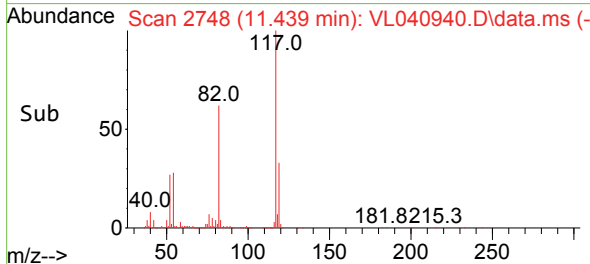
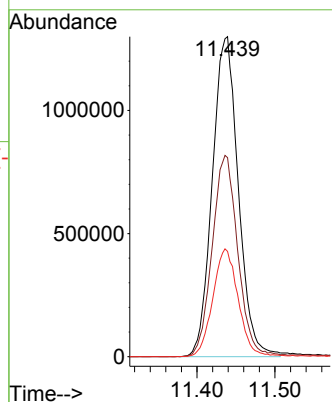
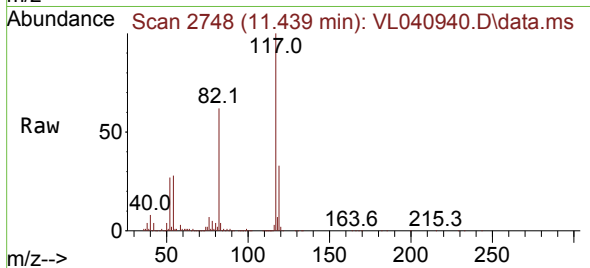




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.439 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL040940.D
Acq: 21 Dec 2023 21:42

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Tgt Ion:117 Resp: 3014147
Ion Ratio Lower Upper
117 100
82 63.1 49.6 74.4
119 33.5 23.4 35.0



#68
1-Bromo-4-Fluorobenzene
Concen: 9.680 ppbv
RT: 13.741 min Scan# 3464
Delta R.T. -0.006 min
Lab File: VL040940.D
Acq: 21 Dec 2023 21:42

Tgt Ion: 95 Resp: 2149135
Ion Ratio Lower Upper
95 100
174 65.7 48.0 72.0
175 4.7 3.7 5.5

