

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122123\
 Data File : VL040948.D
 Acq On : 22 Dec 2023 2:42
 Operator : SY/MD
 Sample : 05848-04 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV5

Quant Time: Dec 22 03:42:55 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

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

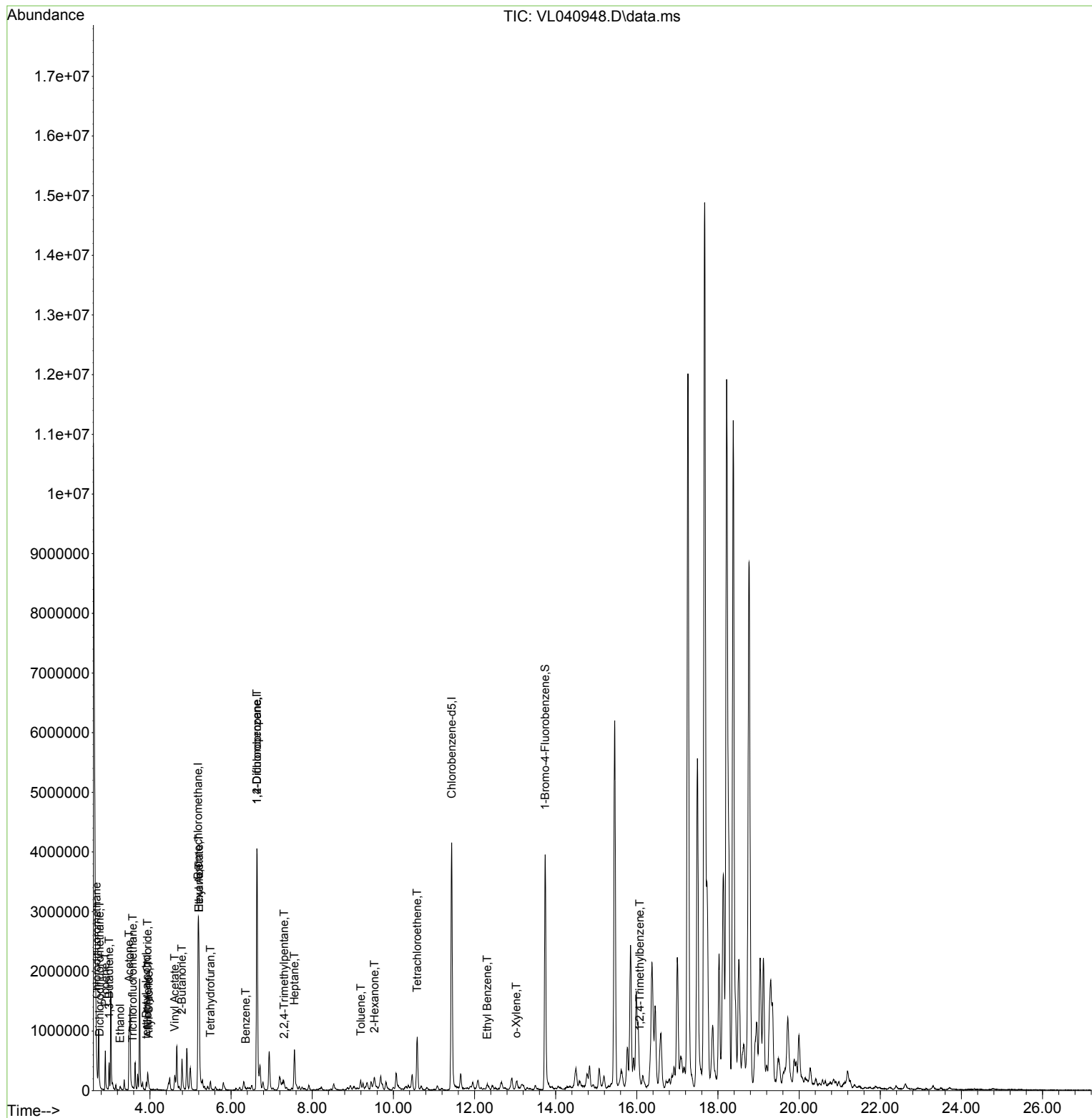
Internal Standards						
1) Bromochloromethane	5.189	49	1201418	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.639	114	3163174	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.436	117	2777881	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.741	95	2030365	9.923	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.761	85	26128	0.114	ppbv	96
3) Chlorodifluoromethane	2.681	51	21031	0.116	ppbv #	83
9) Propene	2.899	41	156480	2.623	ppbv	94
10) Heptane	7.561	43	324787	2.190	ppbv	99
11) Trichlorofluoromethane	3.578	101	9809	0.055	ppbv	93
13) Ethanol	3.263	45	21348	1.419	ppbv #	37
15) Acetone	3.488	43	1431605	9.935	ppbv	93
16) 1,3-Butadiene	2.993	39	105471	1.700	ppbv #	16
17) tert-Butyl alcohol	3.915	59	4078	0.038	ppbv #	72
20) Methylene Chloride	3.944	84	81269	1.582	ppbv #	94
21) Allyl Chloride	3.967	41	8079	0.095	ppbv #	34
23) Vinyl Acetate	4.610	43	47343	0.298	ppbv #	1
25) Ethyl Acetate	5.211	43	472679	1.893	ppbv #	76
26) Hexane	5.211	57	674502	6.096	ppbv #	39
34) 2-Butanone	4.790	43	637842	3.812	ppbv	99
36) Benzene	6.362	78	19789	0.080	ppbv #	83
39) 1,2-Dichloropropane	6.639	63	768622	7.910	ppbv #	24
41) Tetrahydrofuran	5.491	42	25194	0.247	ppbv #	39
44) 2,2,4-Trimethylpentane	7.311	57	46487	0.111	ppbv #	1
51) 2-Hexanone	9.536	43	84254	0.462	ppbv #	3
52) Tetrachloroethene	10.587	164	150634	1.808	ppbv	94
53) Toluene	9.198	91	92920	0.339	ppbv	98
58) Ethyl Benzene	12.314	91	12703	0.036	ppbv	90
60) o-Xylene	13.027	91	18632	0.065	ppbv #	46
74) 1,2,4-Trimethylbenzene	16.072	105	36410	0.121	ppbv #	64

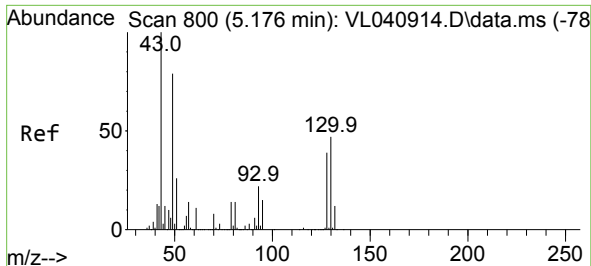
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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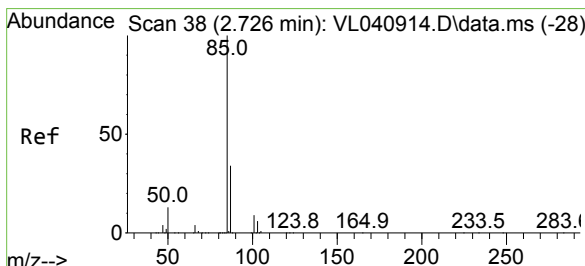
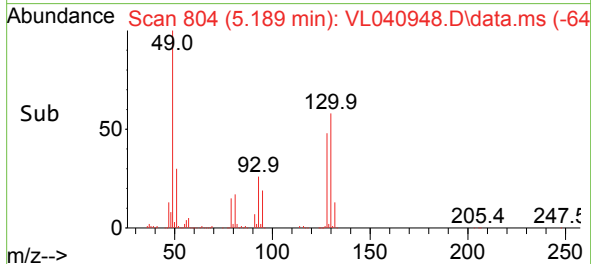
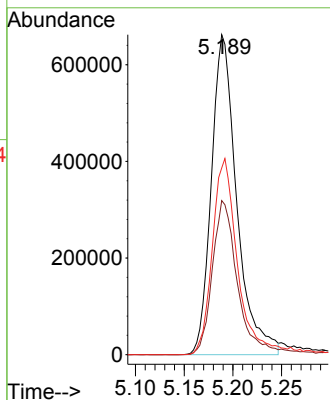
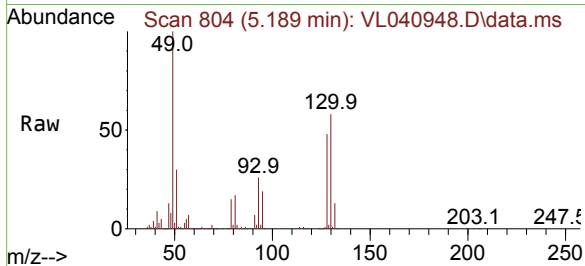




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.189 min Scan# 80
Delta R.T. 0.013 min
Lab File: VL040948.D
Acq: 22 Dec 2023 2:42

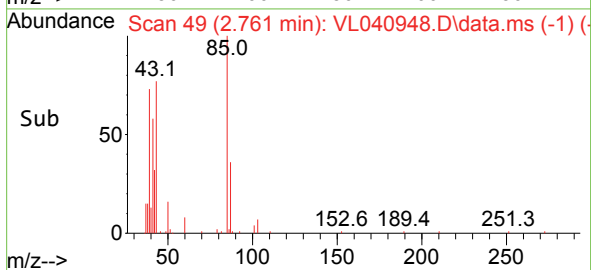
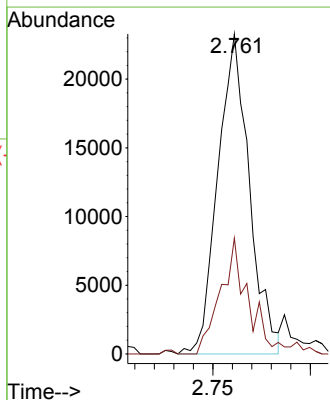
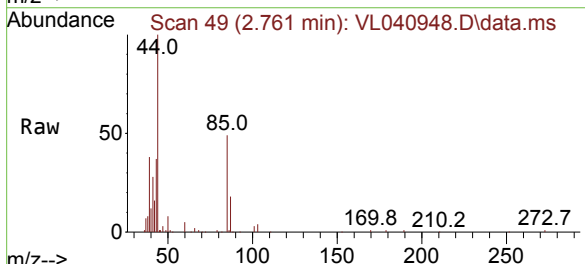
Instrument :
MSVOA_L
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SV5

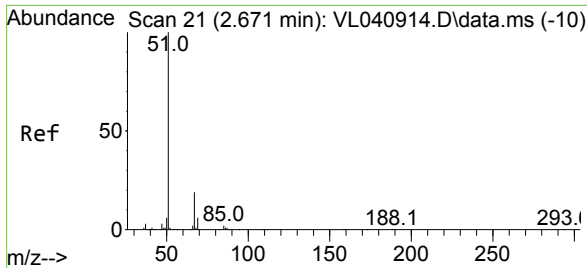
Tgt Ion: 49 Resp: 1201418
Ion Ratio Lower Upper
49 100
128 49.3 23.8 71.2
130 63.6 30.1 90.5



#2
Dichlorodifluoromethane
Concen: 0.114 ppbv
RT: 2.761 min Scan# 49
Delta R.T. 0.035 min
Lab File: VL040948.D
Acq: 22 Dec 2023 2:42

Tgt Ion: 85 Resp: 26128
Ion Ratio Lower Upper
85 100
87 36.2 27.0 40.6

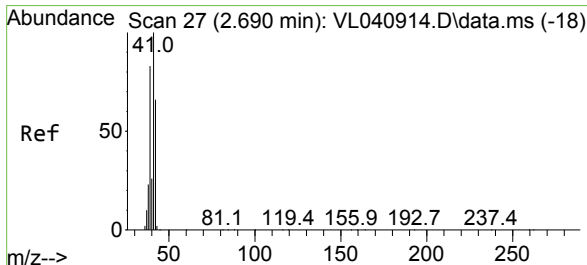
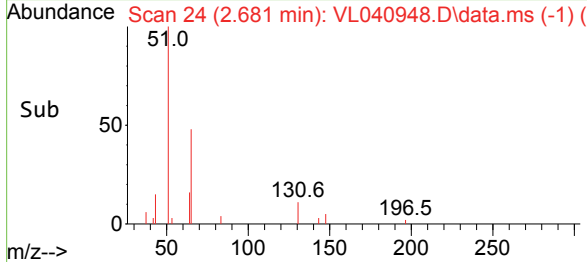
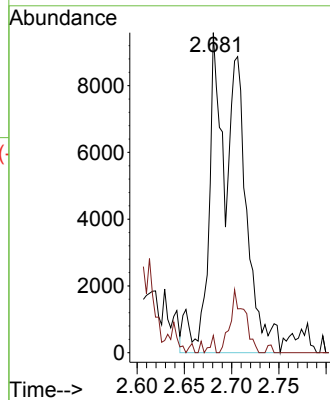
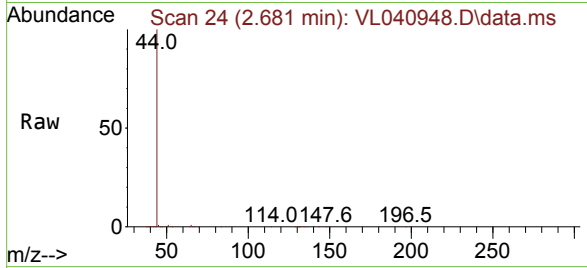




#3
Chlorodifluoromethane
Concen: 0.116 ppbv
RT: 2.681 min Scan# 24
Delta R.T. 0.010 min
Lab File: VL040948.D
Acq: 22 Dec 2023 2:42

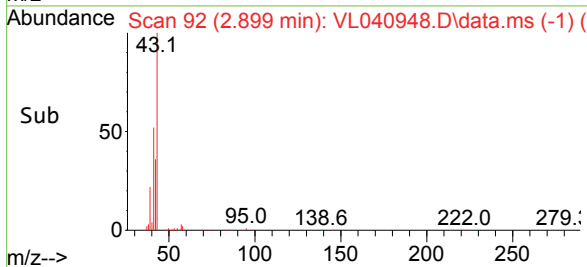
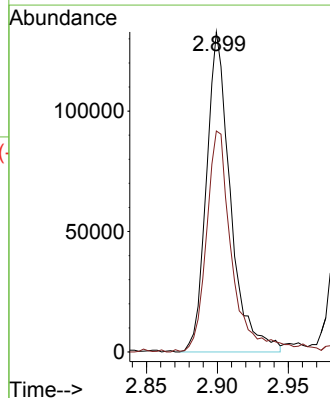
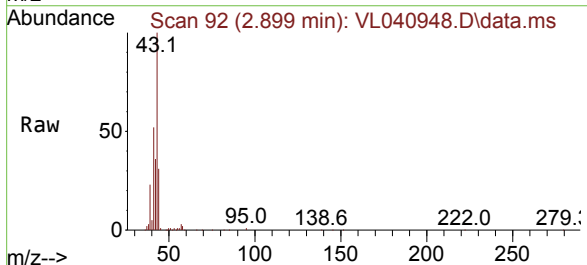
Instrument :
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ClientSampleId :
SV5

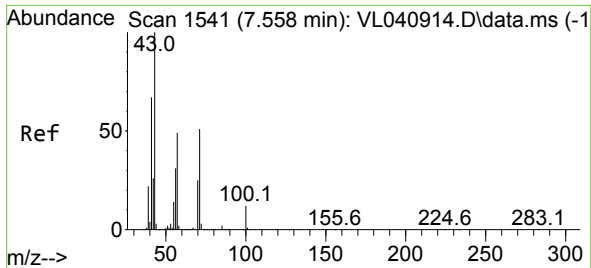
Tgt Ion: 51 Resp: 21031
Ion Ratio Lower Upper
51 100
67 11.0 14.7 22.1#



#9
Propene
Concen: 2.623 ppbv
RT: 2.899 min Scan# 92
Delta R.T. 0.209 min
Lab File: VL040948.D
Acq: 22 Dec 2023 2:42

Tgt Ion: 41 Resp: 156480
Ion Ratio Lower Upper
41 100
42 74.4 55.8 83.6

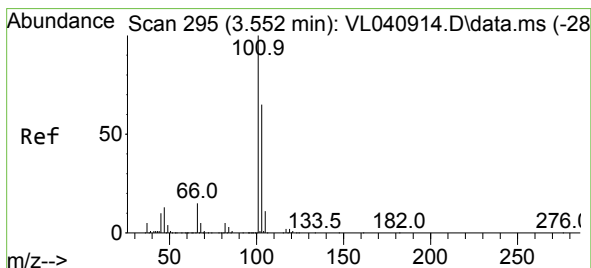
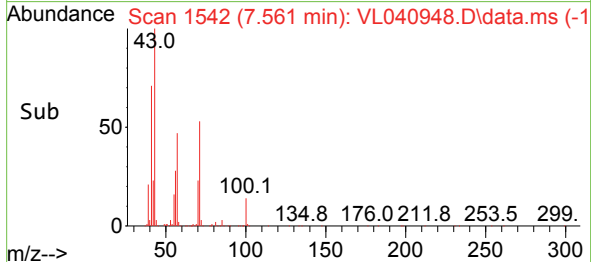
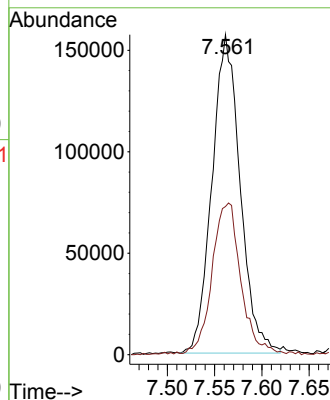
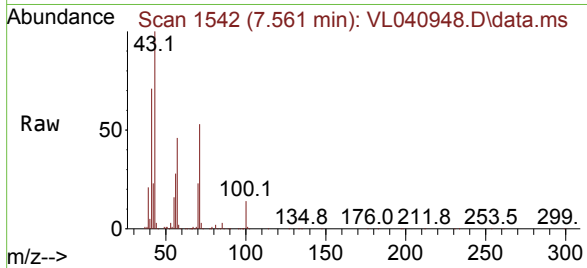




#10
 Heptane
 Concen: 2.190 ppbv
 RT: 7.561 min Scan# 11
 Delta R.T. 0.003 min
 Lab File: VL040948.D
 Acq: 22 Dec 2023 2:42

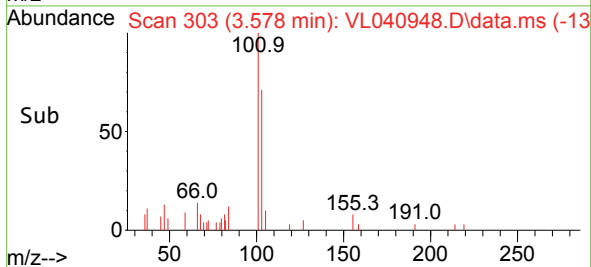
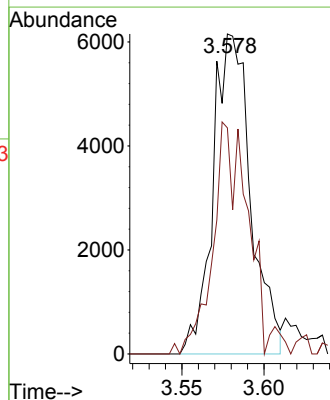
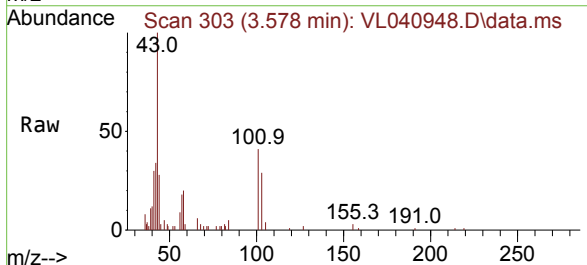
Instrument :
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 ClientSampleId :
 SV5

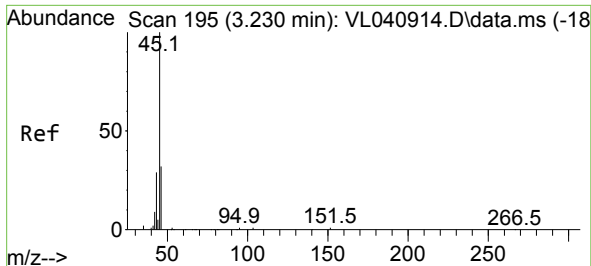
Tgt Ion: 43 Resp: 324787
 Ion Ratio Lower Upper
 43 100
 57 49.7 39.3 58.9



#11
 Trichlorofluoromethane
 Concen: 0.055 ppbv
 RT: 3.578 min Scan# 303
 Delta R.T. 0.026 min
 Lab File: VL040948.D
 Acq: 22 Dec 2023 2:42

Tgt Ion: 101 Resp: 9809
 Ion Ratio Lower Upper
 101 100
 103 70.6 51.9 77.9

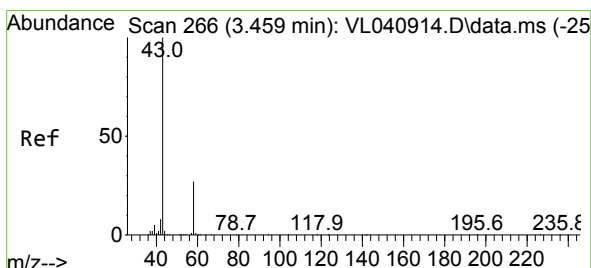
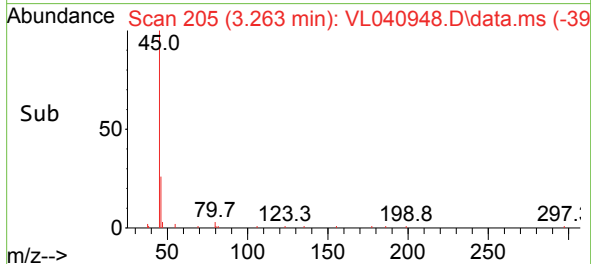
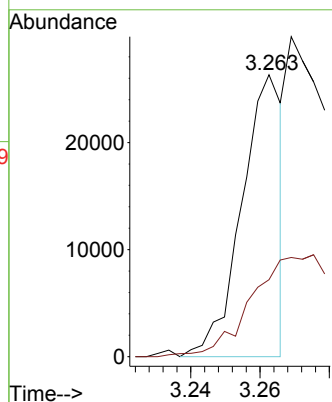
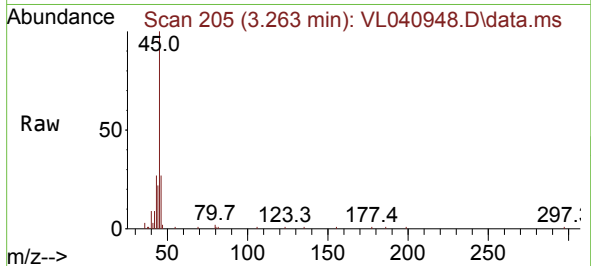




#13
 Ethanol
 Concen: 1.419 ppbv
 RT: 3.263 min Scan# 205
 Delta R.T. 0.032 min
 Lab File: VL040948.D
 Acq: 22 Dec 2023 2:42

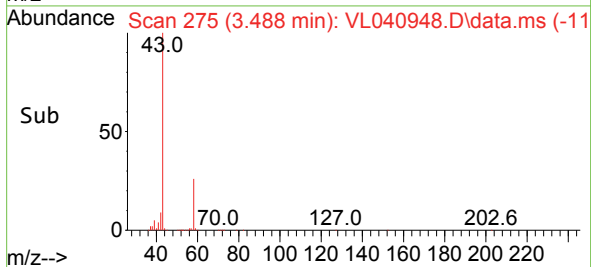
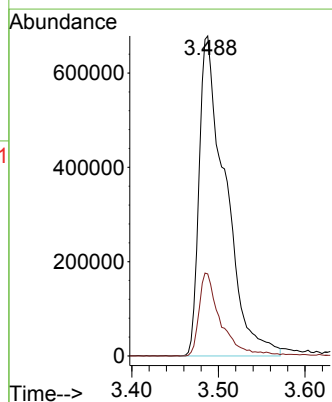
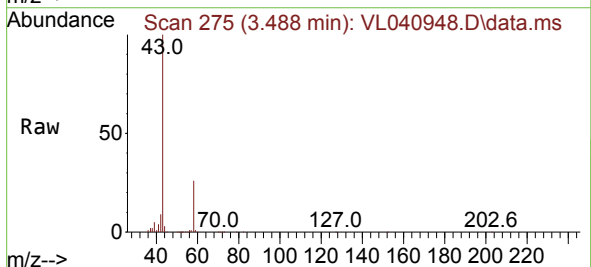
Instrument :
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 ClientSampleId :
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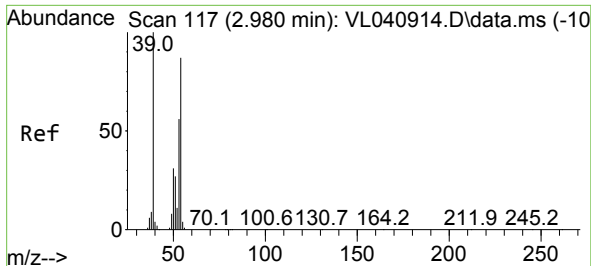
Tgt Ion: 45 Resp: 21348
 Ion Ratio Lower Upper
 45 100
 46 0.0 15.0 60.0#



#15
 Acetone
 Concen: 9.935 ppbv
 RT: 3.488 min Scan# 275
 Delta R.T. 0.029 min
 Lab File: VL040948.D
 Acq: 22 Dec 2023 2:42

Tgt Ion: 43 Resp: 1431605
 Ion Ratio Lower Upper
 43 100
 58 21.9 20.6 30.8

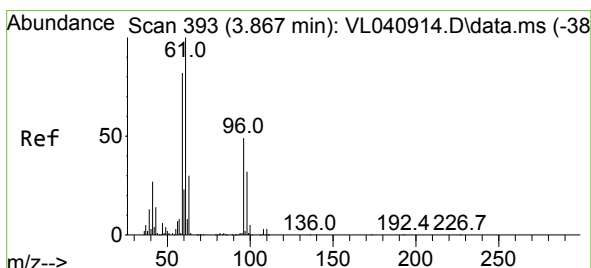
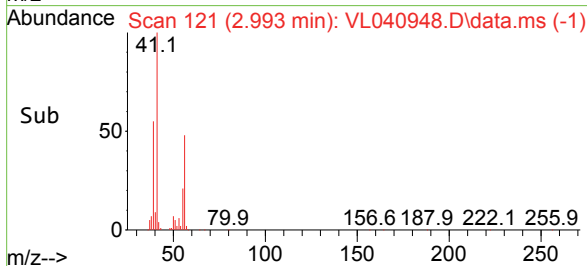
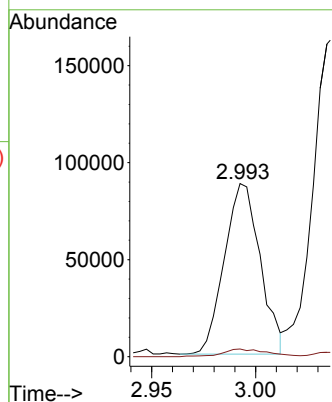
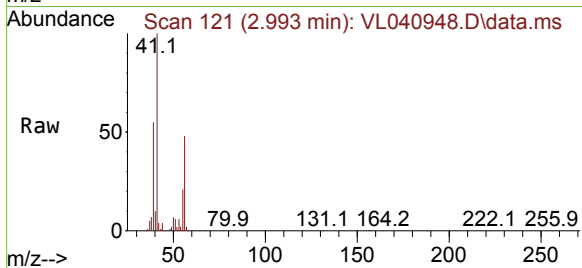




#16
1,3-Butadiene
Concen: 1.700 ppbv
RT: 2.993 min Scan# 11
Delta R.T. 0.013 min
Lab File: VL040948.D
Acq: 22 Dec 2023 2:42

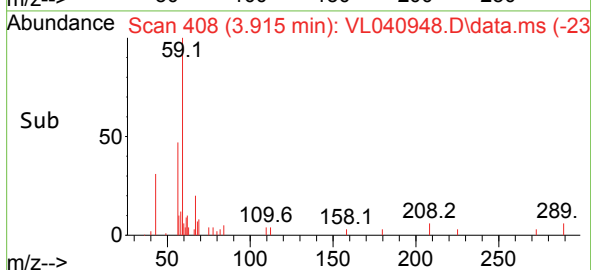
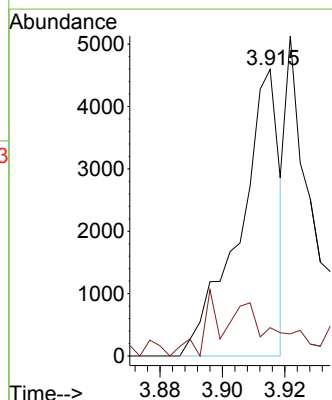
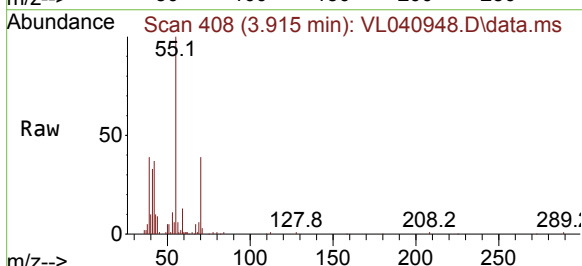
Instrument :
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ClientSampleId :
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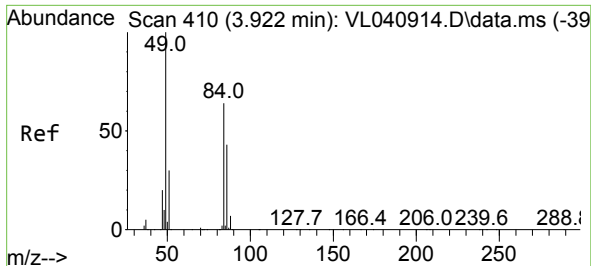
Tgt Ion: 39 Resp: 105471
Ion Ratio Lower Upper
39 100
54 5.7 63.8 95.6#



#17
tert-Butyl alcohol
Concen: 0.038 ppbv
RT: 3.915 min Scan# 408
Delta R.T. 0.048 min
Lab File: VL040948.D
Acq: 22 Dec 2023 2:42

Tgt Ion: 59 Resp: 4078
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

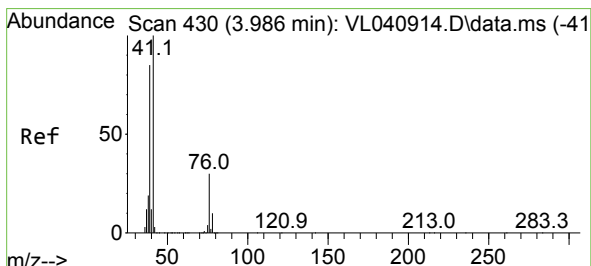
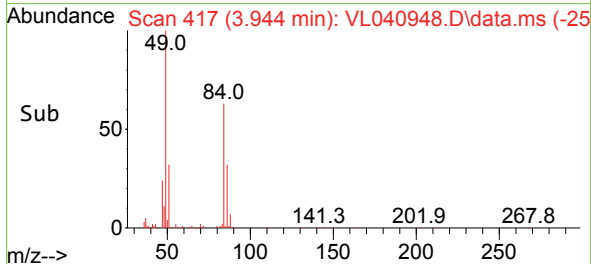
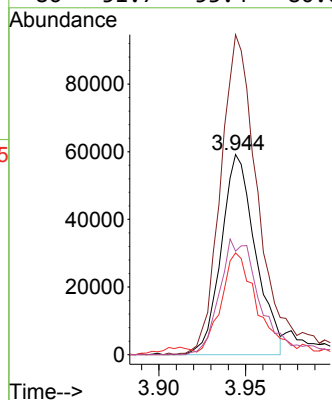
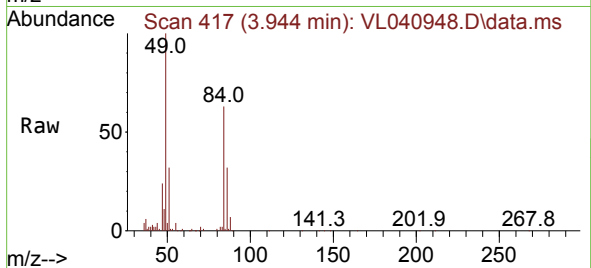




#20
Methylene Chloride
Concen: 1.582 ppbv
RT: 3.944 min Scan# 417
Delta R.T. 0.023 min
Lab File: VL040948.D
Acq: 22 Dec 2023 2:42

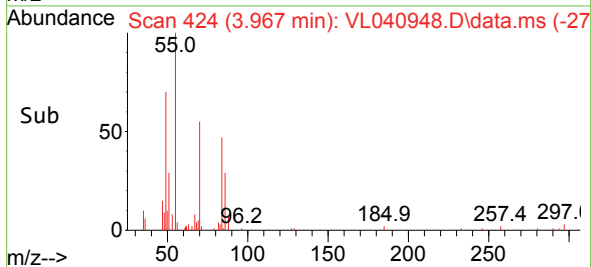
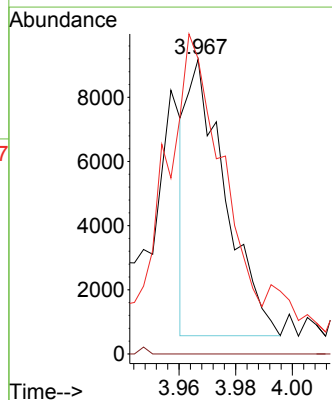
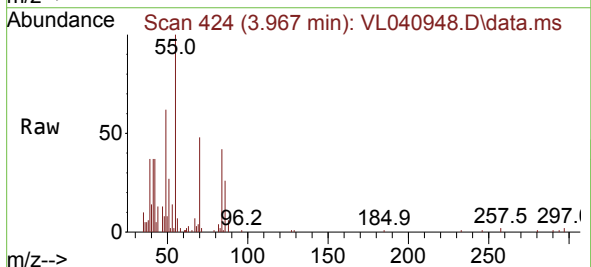
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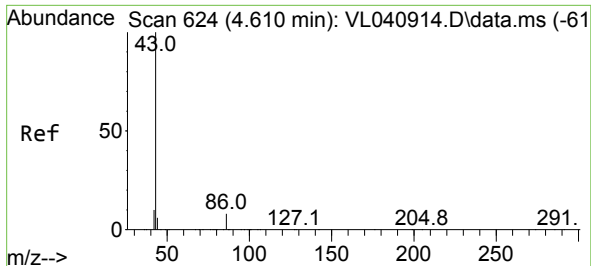
Tgt Ion: 84 Resp: 81269
Ion Ratio Lower Upper
84 100
49 159.2 124.6 187.0
51 47.1 37.2 55.8
86 51.7 53.4 80.0#



#21
Allyl Chloride
Concen: 0.095 ppbv
RT: 3.967 min Scan# 424
Delta R.T. -0.019 min
Lab File: VL040948.D
Acq: 22 Dec 2023 2:42

Tgt Ion: 41 Resp: 8079
Ion Ratio Lower Upper
41 100
76 37.9 23.9 35.9#
39 159.4 66.5 99.7#

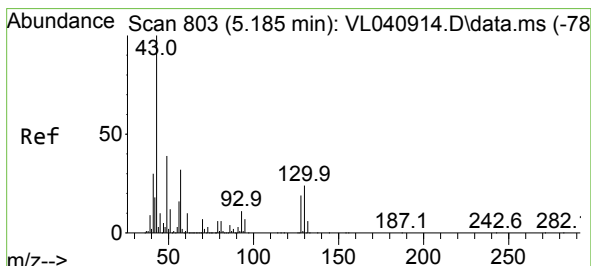
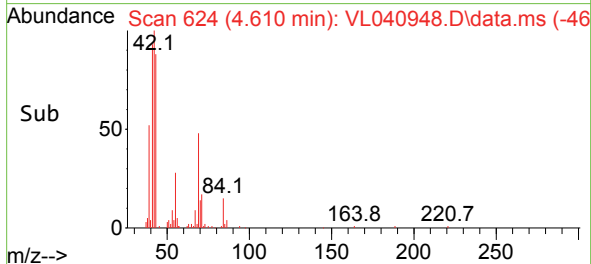
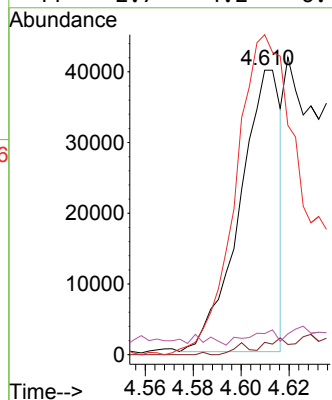
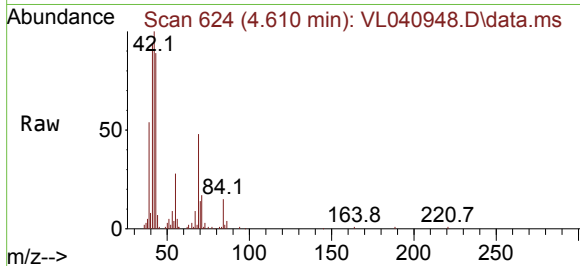




#23
 Vinyl Acetate
 Concen: 0.298 ppbv
 RT: 4.610 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL040948.D
 Acq: 22 Dec 2023 2:42

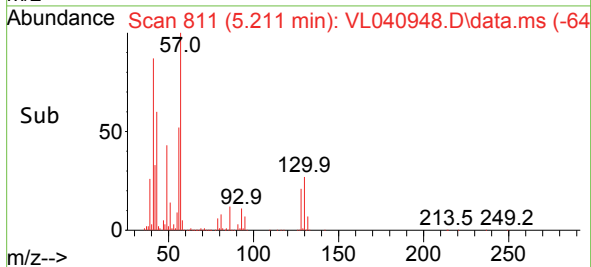
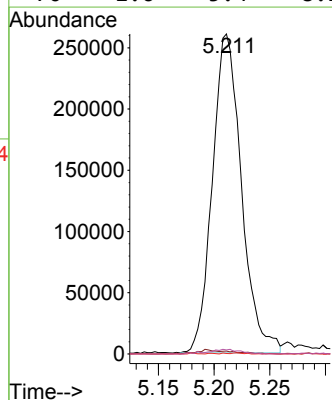
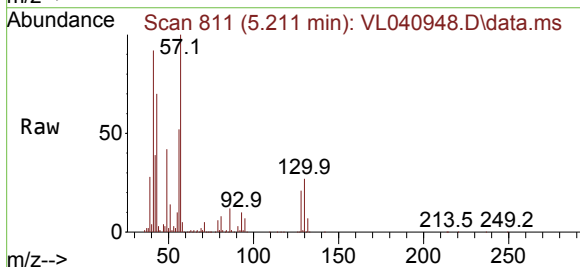
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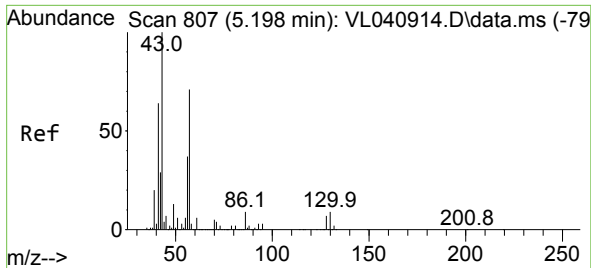
Tgt Ion:	43	Resp:	47343
Ion	Ratio	Lower	Upper
43	100		
86	4.4	5.5	8.3#
42	111.7	8.4	12.6#
44	2.7	4.2	6.4#



#25
 Ethyl Acetate
 Concen: 1.893 ppbv
 RT: 5.211 min Scan# 811
 Delta R.T. 0.026 min
 Lab File: VL040948.D
 Acq: 22 Dec 2023 2:42

Tgt Ion:	43	Resp:	472679
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.2	12.2#
61	0.3	7.6	11.4#
70	1.6	5.4	8.2#

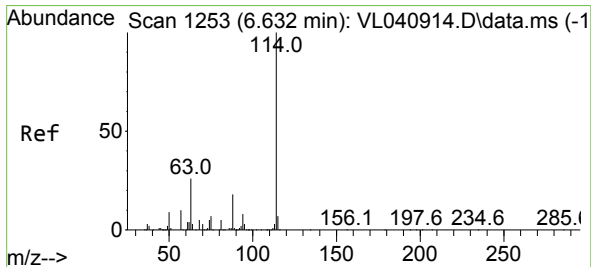
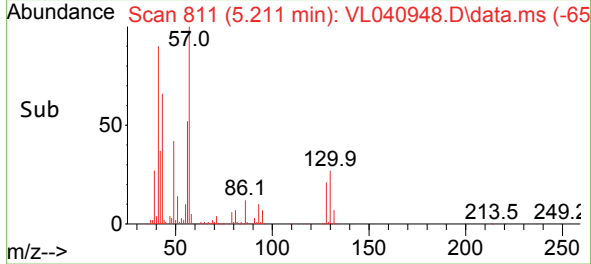
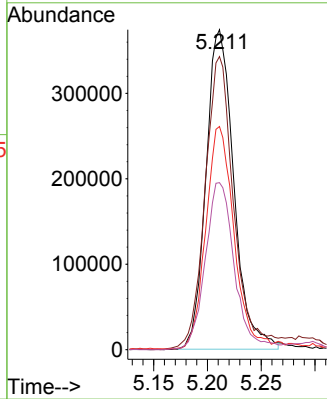
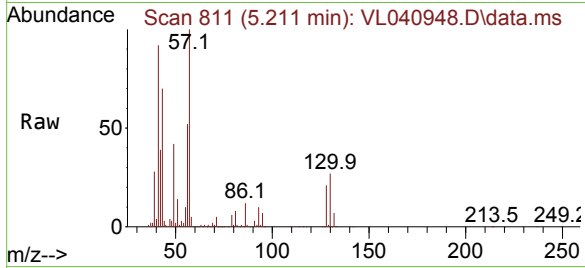




#26
Hexane
Concen: 6.096 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.013 min
Lab File: VL040948.D
Acq: 22 Dec 2023 2:42

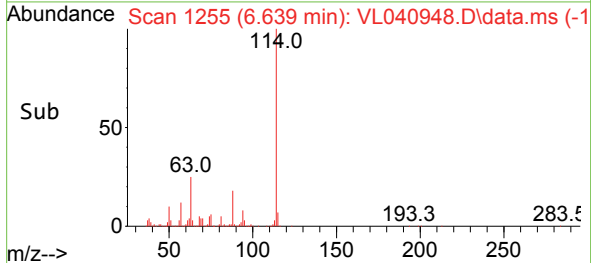
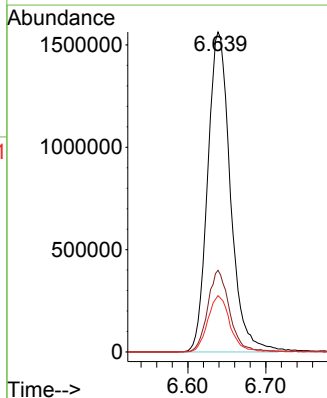
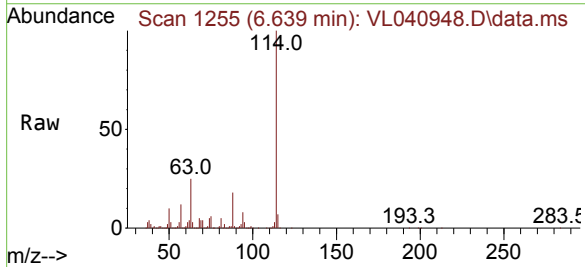
Instrument :
MSVOA_L
ClientSampleId :
SV5

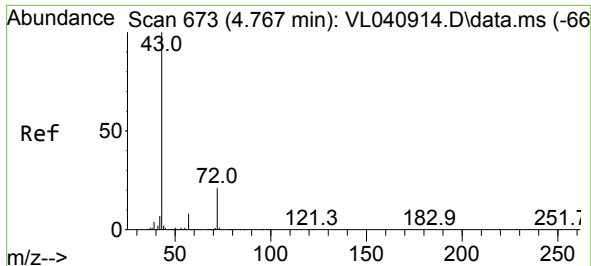
Tgt Ion: 57 Resp: 674502
Ion Ratio Lower Upper
57 100
41 99.6 75.2 112.8
43 74.0 188.0 282.0#
56 54.7 42.3 63.5



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.639 min Scan# 1255
Delta R.T. 0.006 min
Lab File: VL040948.D
Acq: 22 Dec 2023 2:42

Tgt Ion:114 Resp: 3163174
Ion Ratio Lower Upper
114 100
63 24.9 21.0 31.6
88 17.5 14.3 21.5

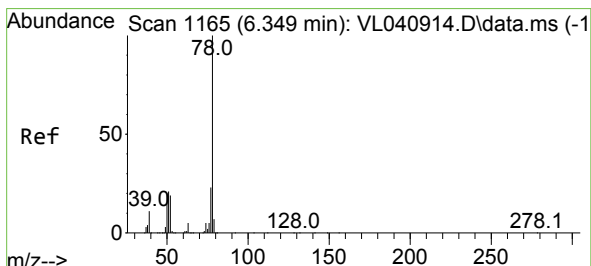
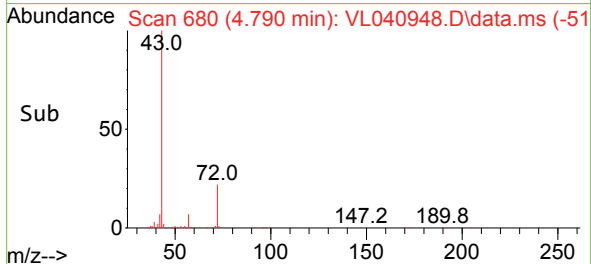
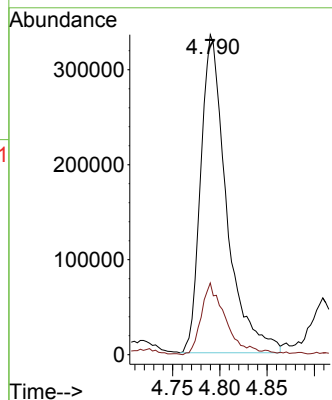
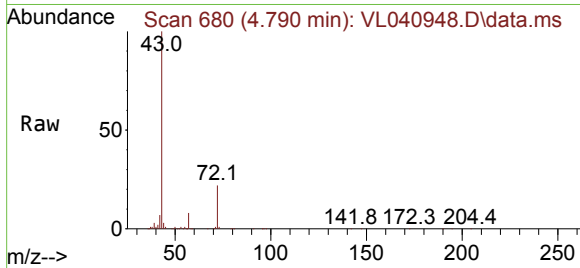




#34
2-Butanone
Concen: 3.812 ppbv
RT: 4.790 min Scan# 61
Delta R.T. 0.023 min
Lab File: VL040948.D
Acq: 22 Dec 2023 2:42

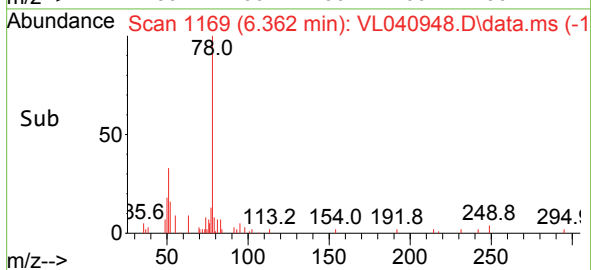
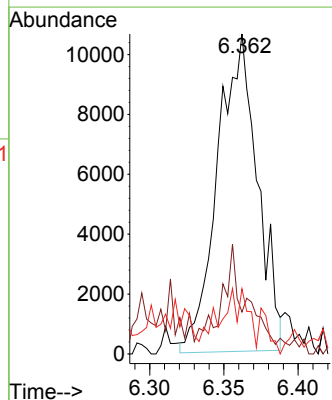
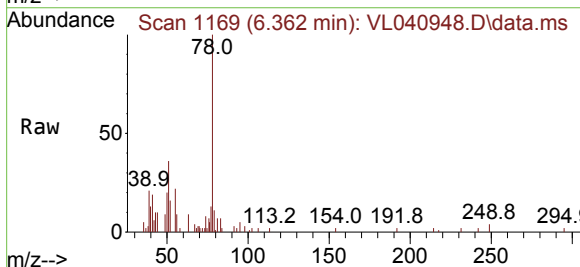
Instrument :
MSVOA_L
ClientSampleId :
SV5

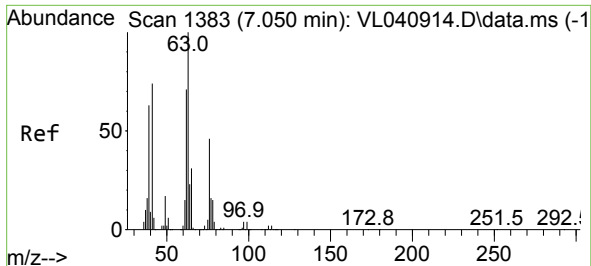
Tgt Ion: 43 Resp: 637842
Ion Ratio Lower Upper
43 100
72 22.0 17.2 25.8



#36
Benzene
Concen: 0.080 ppbv
RT: 6.362 min Scan# 1169
Delta R.T. 0.013 min
Lab File: VL040948.D
Acq: 22 Dec 2023 2:42

Tgt Ion: 78 Resp: 19789
Ion Ratio Lower Upper
78 100
77 8.5 18.4 27.6#
50 21.1 16.0 24.0





#39

1,2-Dichloropropane

Concen: 7.910 ppbv

RT: 6.639 min Scan# 1

Delta R.T. -0.412 min

Lab File: VL040948.D

Acq: 22 Dec 2023 2:42

Instrument :

MSVOA_L

ClientSampleId :

SV5

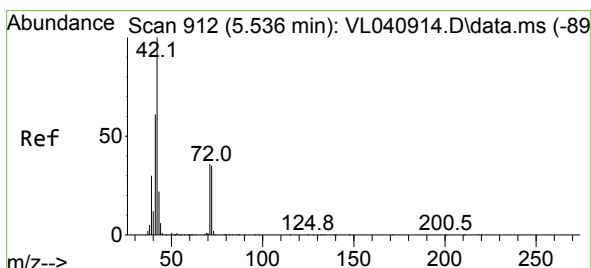
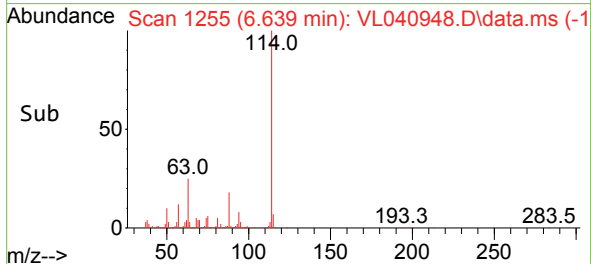
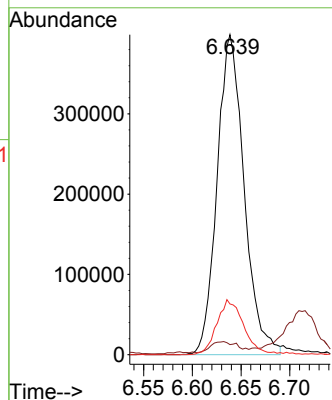
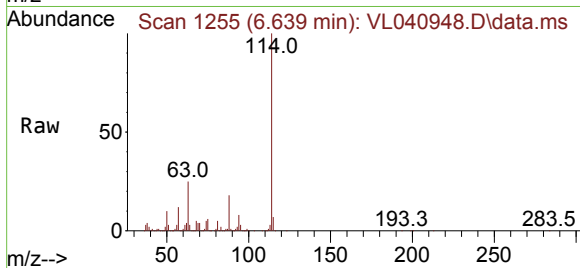
Tgt Ion: 63 Resp: 768622

Ion Ratio Lower Upper

63 100

41 2.3 59.0 88.6#

62 15.9 56.6 85.0#



#41

Tetrahydrofuran

Concen: 0.247 ppbv

RT: 5.491 min Scan# 898

Delta R.T. -0.045 min

Lab File: VL040948.D

Acq: 22 Dec 2023 2:42

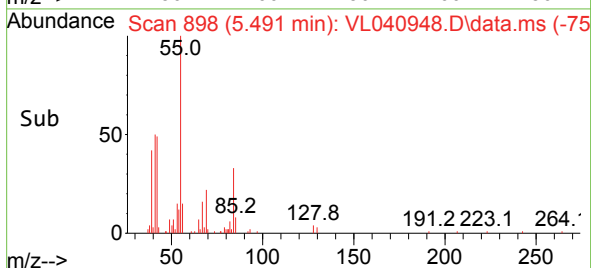
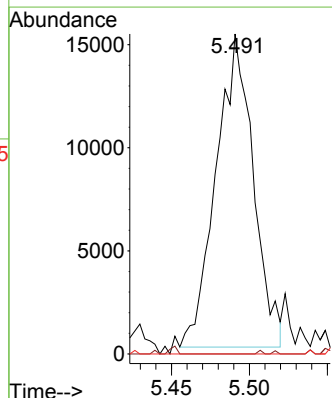
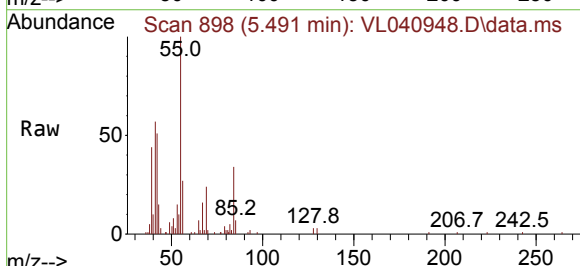
Tgt Ion: 42 Resp: 25194

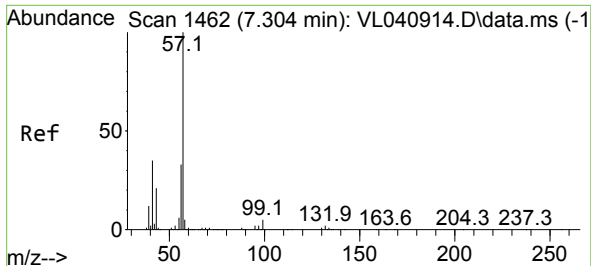
Ion Ratio Lower Upper

42 100

72 0.5 29.6 44.4#

71 0.0 29.1 43.7#

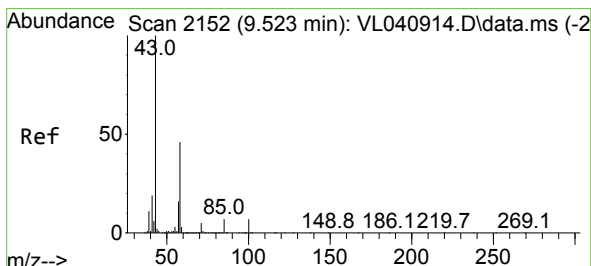
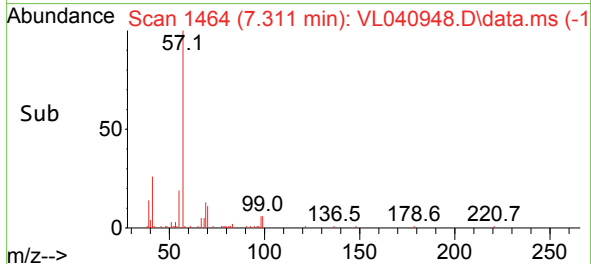
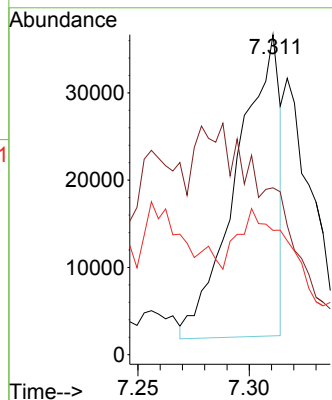
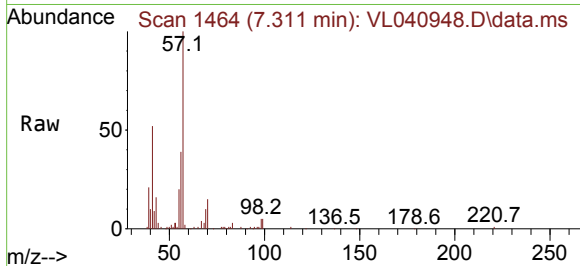




#44
2,2,4-Trimethylpentane
Concen: 0.111 ppbv
RT: 7.311 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VL040948.D
Acq: 22 Dec 2023 2:42

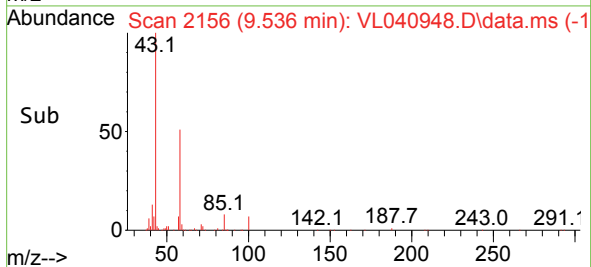
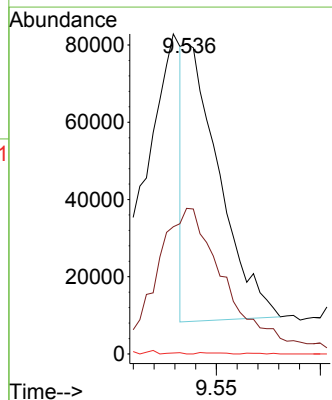
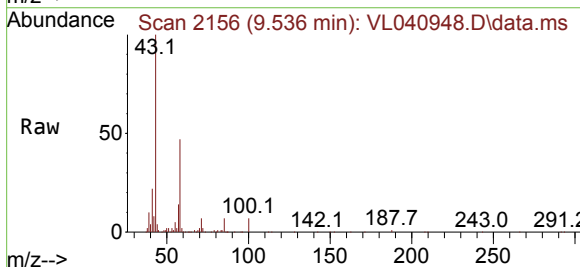
Instrument :
MSVOA_L
ClientSampleId :
SV5

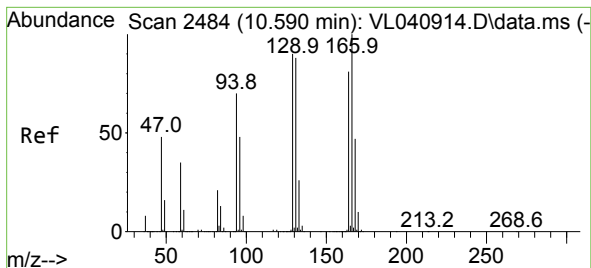
Tgt Ion: 57 Resp: 46487
Ion Ratio Lower Upper
57 100
41 238.8 28.2 42.4#
56 80.5 25.3 37.9#



#51
2-Hexanone
Concen: 0.462 ppbv
RT: 9.536 min Scan# 2156
Delta R.T. 0.013 min
Lab File: VL040948.D
Acq: 22 Dec 2023 2:42

Tgt Ion: 43 Resp: 84254
Ion Ratio Lower Upper
43 100
58 111.5 37.3 55.9#
98 0.6 0.2 0.2#





#52

Tetrachloroethene

Concen: 1.808 ppbv

RT: 10.587 min Scan# 2483

Delta R.T. -0.003 min

Lab File: VL040948.D

Acq: 22 Dec 2023 2:42

Instrument :

MSVOA_L

ClientSampleId :

SV5

Tgt Ion:164 Resp: 150634

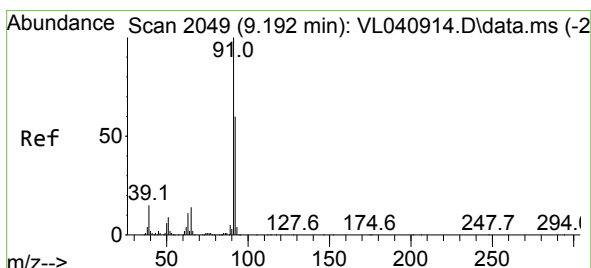
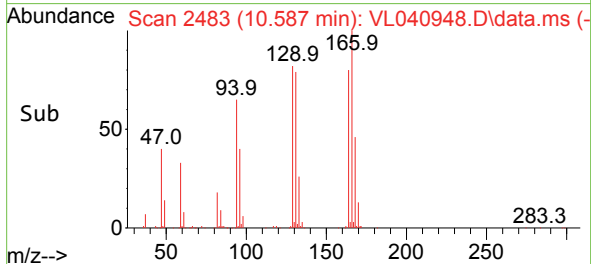
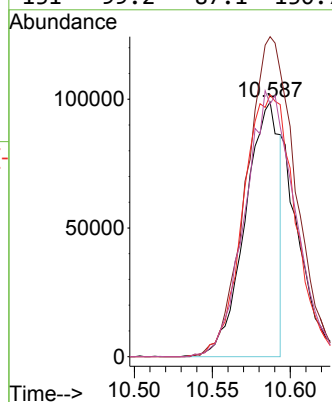
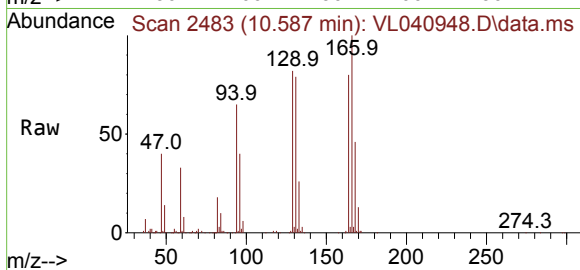
Ion Ratio Lower Upper

164 100

166 125.7 98.9 148.3

129 102.9 88.7 133.1

131 99.2 87.1 130.7



#53

Toluene

Concen: 0.339 ppbv

RT: 9.198 min Scan# 2051

Delta R.T. 0.006 min

Lab File: VL040948.D

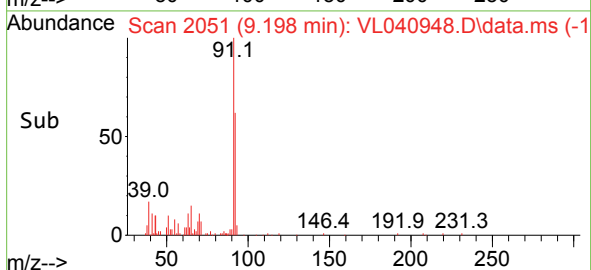
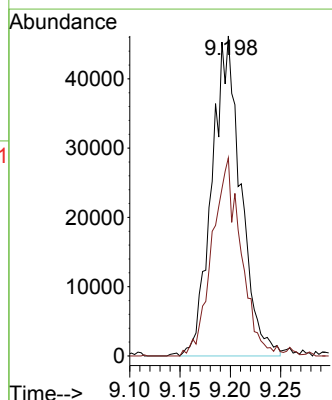
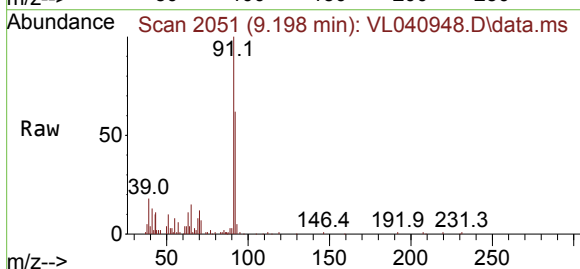
Acq: 22 Dec 2023 2:42

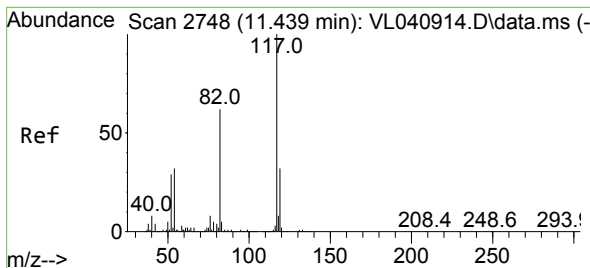
Tgt Ion: 91 Resp: 92920

Ion Ratio Lower Upper

91 100

92 62.7 49.2 73.8

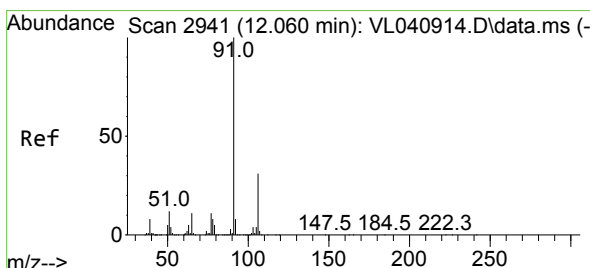
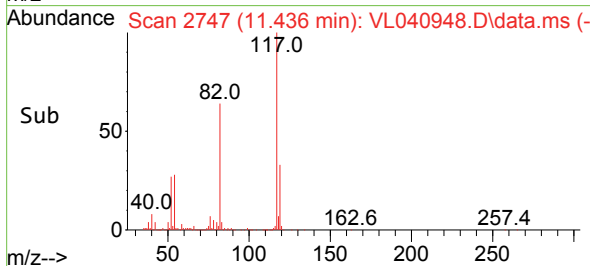
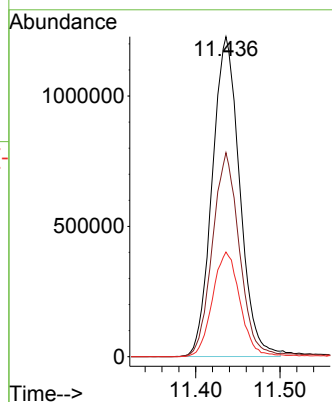
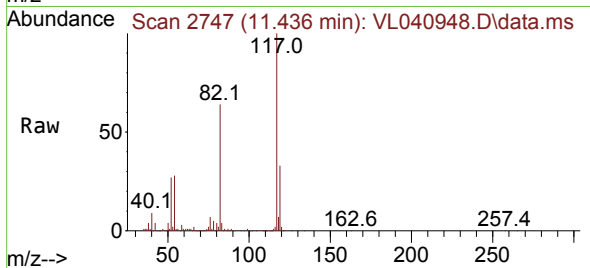




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.436 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL040948.D
Acq: 22 Dec 2023 2:42

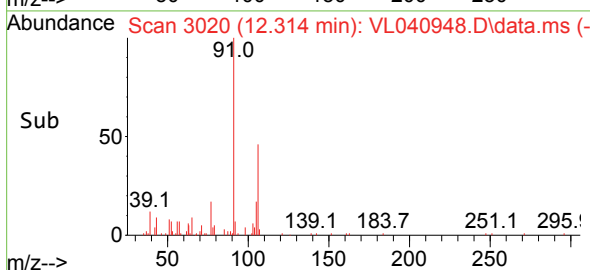
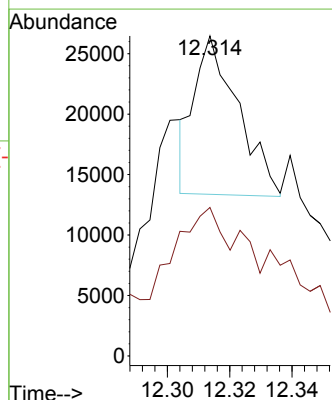
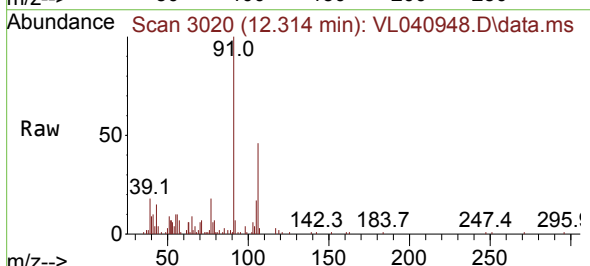
Instrument :
MSVOA_L
ClientSampleId :
SV5

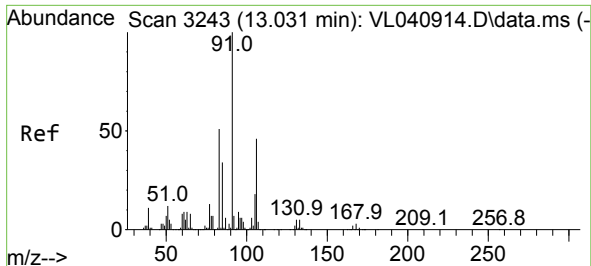
Tgt Ion:117 Resp: 2777881
Ion Ratio Lower Upper
117 100
82 64.4 49.6 74.4
119 33.1 23.4 35.0



#58
Ethyl Benzene
Concen: 0.036 ppbv
RT: 12.314 min Scan# 3020
Delta R.T. 0.254 min
Lab File: VL040948.D
Acq: 22 Dec 2023 2:42

Tgt Ion: 91 Resp: 12703
Ion Ratio Lower Upper
91 100
106 36.6 24.9 37.3

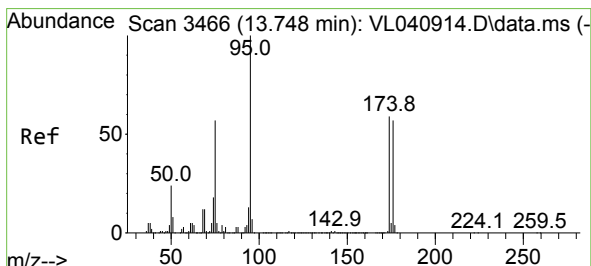
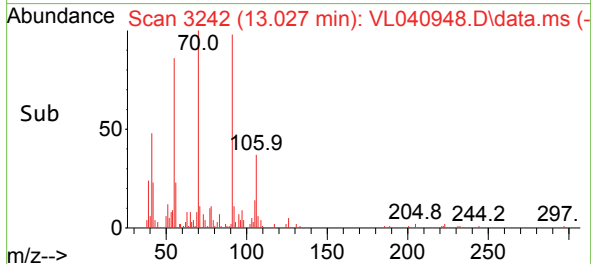
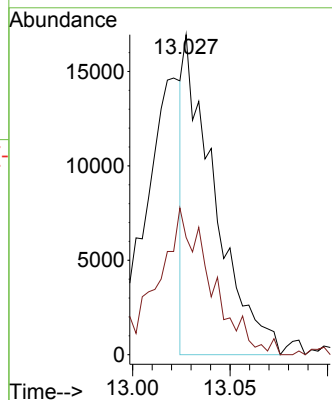
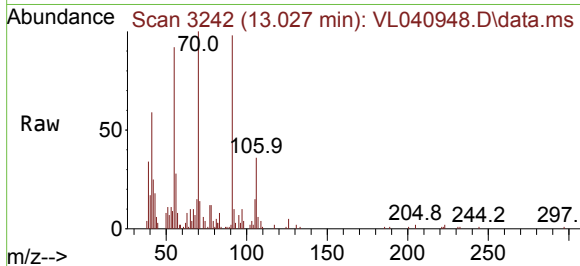




#60
o-Xylene
Concen: 0.065 ppbv
RT: 13.027 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL040948.D
Acq: 22 Dec 2023 2:42

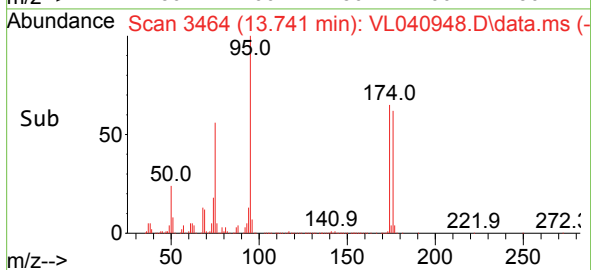
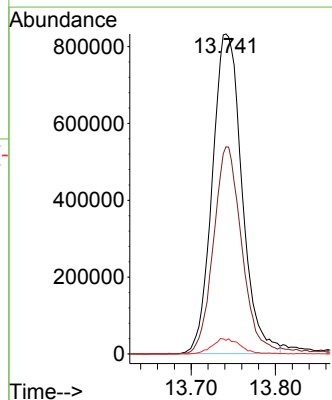
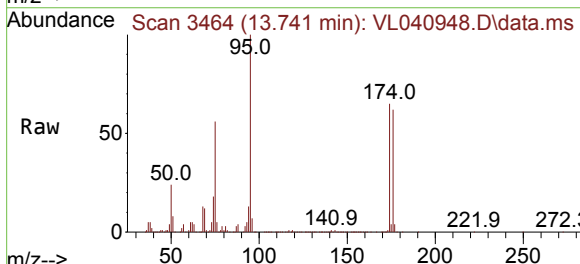
Instrument :
MSVOA_L
ClientSampleId :
SV5

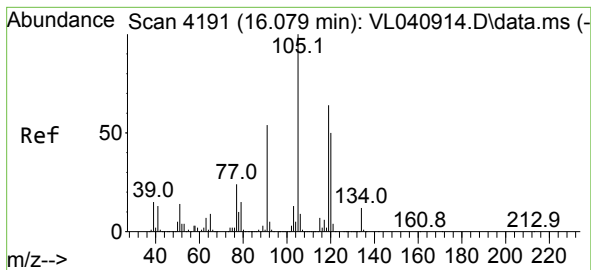
Tgt Ion: 91 Resp: 18632
Ion Ratio Lower Upper
91 100
106 80.6 22.6 67.7#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.923 ppbv
RT: 13.741 min Scan# 3464
Delta R.T. -0.006 min
Lab File: VL040948.D
Acq: 22 Dec 2023 2:42

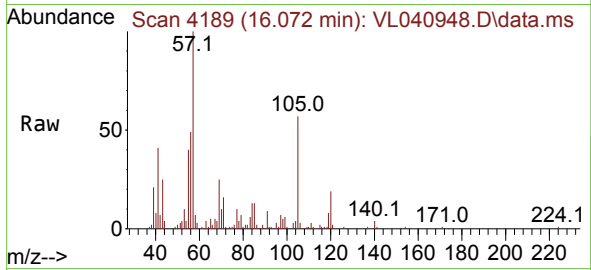
Tgt Ion: 95 Resp: 2030365
Ion Ratio Lower Upper
95 100
174 64.3 48.0 72.0
175 4.6 3.7 5.5





#74
 1,2,4-Trimethylbenzene
 Concen: 0.121 ppbv
 RT: 16.072 min Scan# 4191
 Delta R.T. -0.006 min
 Lab File: VL040948.D
 Acq: 22 Dec 2023 2:42

Instrument :
 MSVOA_L
 ClientSampleId :
 SV5



Tgt Ion:	105	Resp:	36410
Ion	Ratio	Lower	Upper
105	100		
120	35.7	40.2	60.4#
91	15.9	43.0	64.6#
77	8.7	18.9	28.3#

