

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020724\
 Data File : VL041038.D
 Acq On : 7 Feb 2024 13:19
 Operator : SY/MD
 Sample : P1392-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Feb 08 02:43:12 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL012324AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Feb 08 02:04:13 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.172	49	1045233	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.632	114	2627312	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.442	117	2298861	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.754	95	1749569	10.076	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.800%

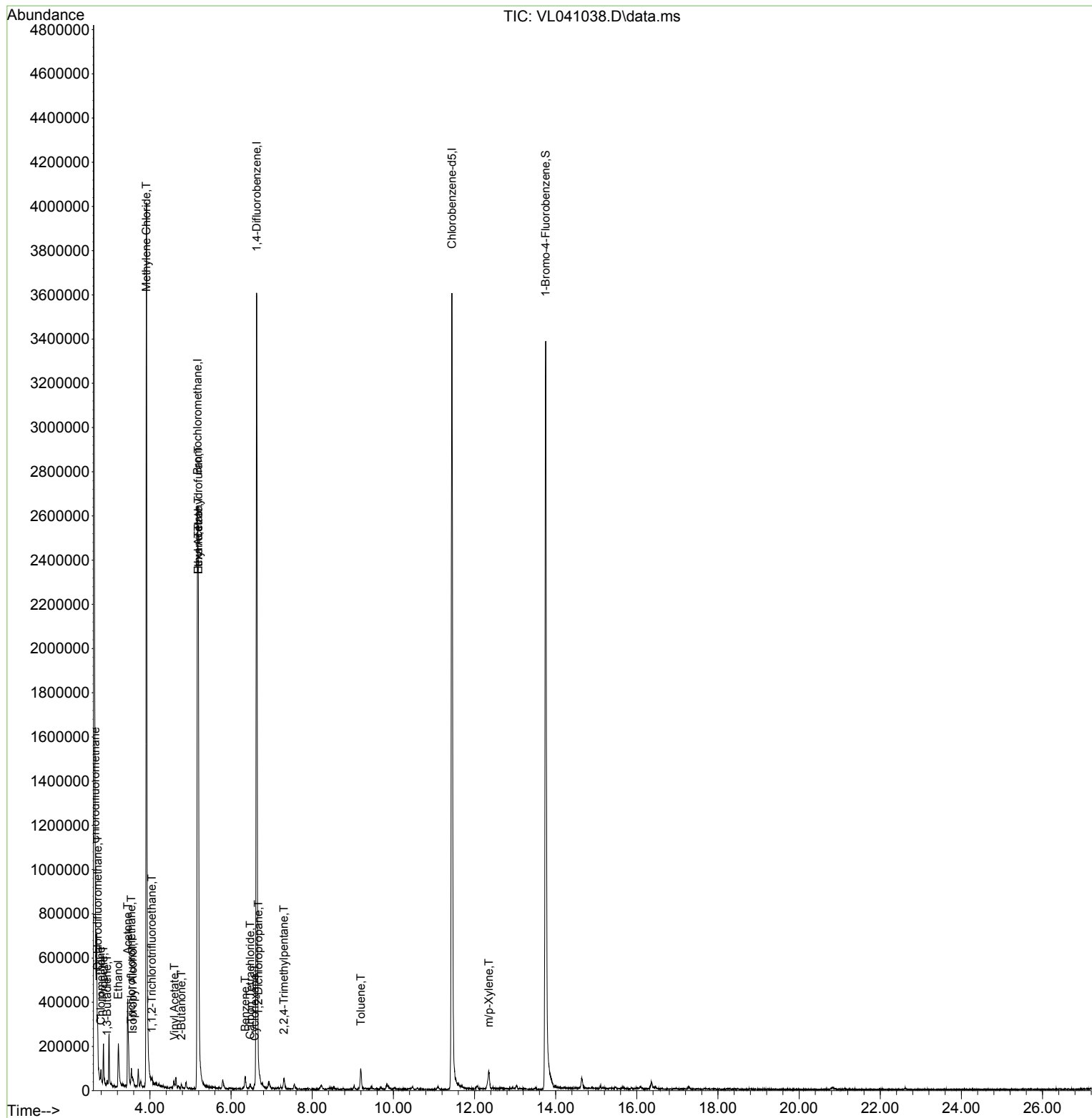
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.710	85	113650	0.492	ppbv	96
3) Chlorodifluoromethane	2.655	51	59390	0.338	ppbv	92
4) Chloromethane	2.793	50	31657	0.480	ppbv	94
9) Propene	2.854	41	39243	0.681	ppbv	91
11) Trichlorofluoromethane	3.542	101	41285	0.222	ppbv	92
12) 1,1,2-Trichlorotrifluo...	4.044	101	5978	0.044	ppbv #	42
13) Ethanol	3.221	45	225240	16.389	ppbv	96
15) Acetone	3.452	43	418674	3.132	ppbv	99
16) 1,3-Butadiene	2.944	39	7247	0.113	ppbv #	10
19) Isopropyl Alcohol	3.578	45	11763	0.152	ppbv #	92
20) Methylene Chloride	3.915	84	1347787	26.204	ppbv	94
23) Vinyl Acetate	4.607	43	4149	0.030	ppbv #	4
25) Ethyl Acetate	5.195	43	587297	2.423	ppbv #	84
26) Hexane	5.195	57	642073	6.215	ppbv #	46
30) Cyclohexane	6.581	84	2215	0.026	ppbv #	1
34) 2-Butanone	4.777	43	20232	0.162	ppbv #	89
35) Carbon Tetrachloride	6.475	117	12972	0.074	ppbv #	73
36) Benzene	6.349	78	22705	0.105	ppbv #	88
39) 1,2-Dichloropropane	6.674	63	8376	0.098	ppbv #	18
41) Tetrahydrofuran	5.192	42	270474	3.183	ppbv #	50
44) 2,2,4-Trimethylpentane	7.301	57	21624	0.059	ppbv #	36
53) Toluene	9.201	91	61092	0.257	ppbv	98
59) m/p-Xylene	12.352	91	40886	0.152	ppbv #	29

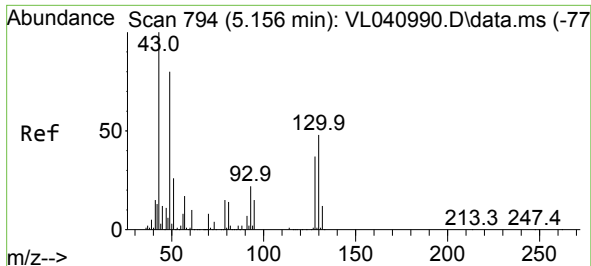
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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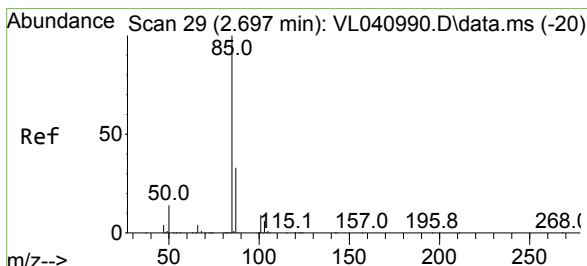
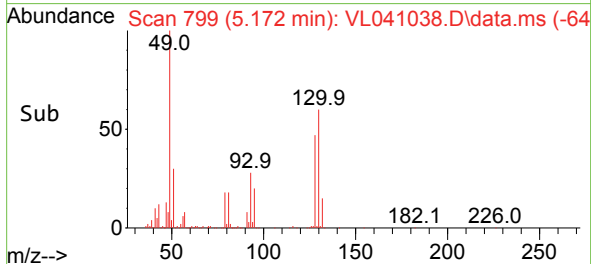
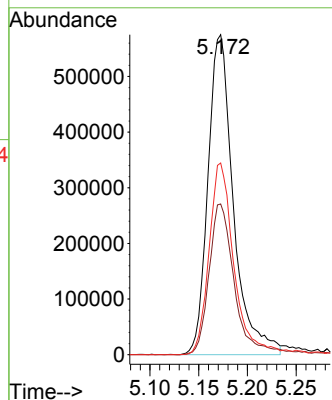
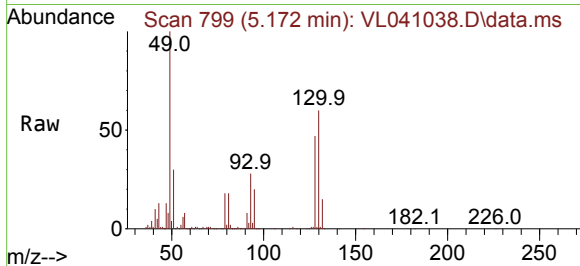




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.172 min Scan# 794
 Delta R.T. 0.006 min
 Lab File: VL041038.D
 Acq: 7 Feb 2024 13:19

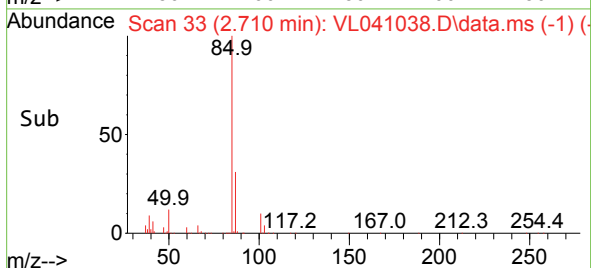
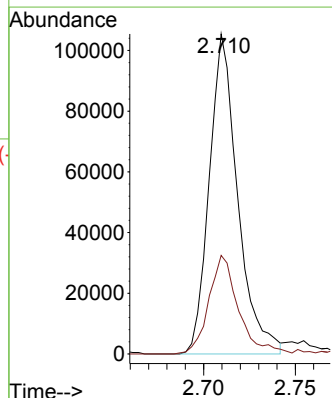
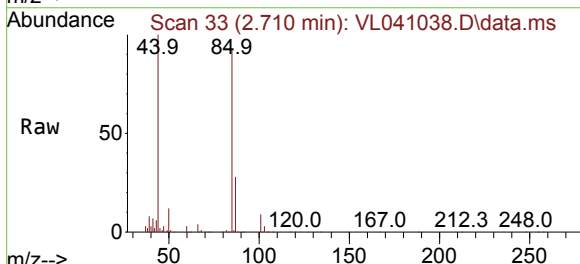
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

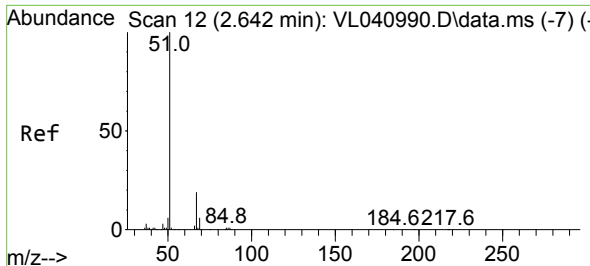
Tgt Ion: 49 Resp: 1045233
 Ion Ratio Lower Upper
 49 100
 128 48.3 23.9 71.7
 130 60.3 31.1 93.5



#2
 Dichlorodifluoromethane
 Concen: 0.492 ppbv
 RT: 2.710 min Scan# 33
 Delta R.T. 0.007 min
 Lab File: VL041038.D
 Acq: 7 Feb 2024 13:19

Tgt Ion: 85 Resp: 113650
 Ion Ratio Lower Upper
 85 100
 87 30.5 26.3 39.5

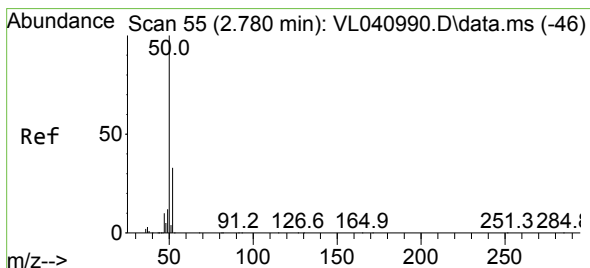
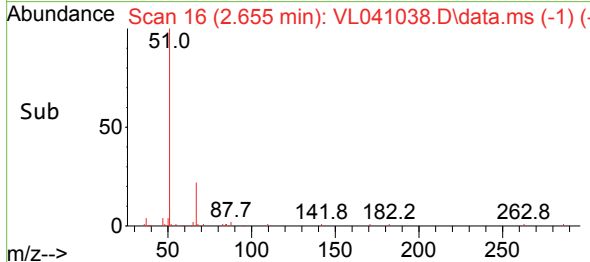
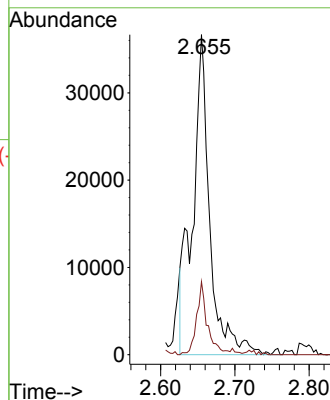
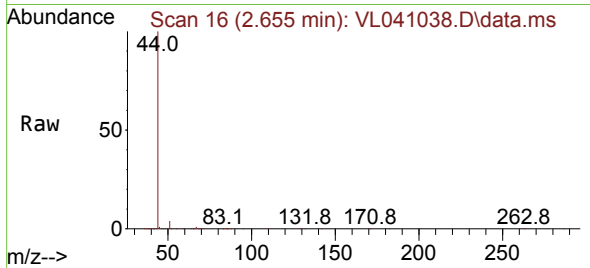




#3
Chlorodifluoromethane
Concen: 0.338 ppbv
RT: 2.655 min Scan# 16
Delta R.T. 0.007 min
Lab File: VL041038.D
Acq: 7 Feb 2024 13:19

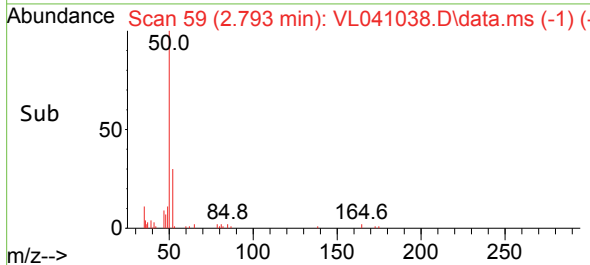
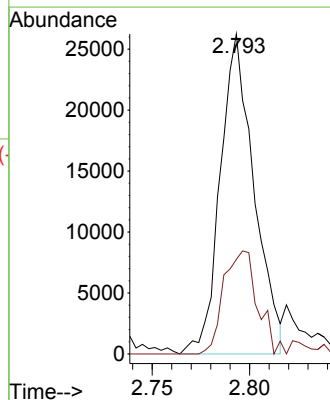
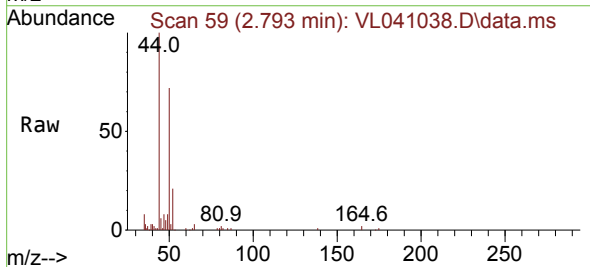
Instrument :
MSVOA_L
ClientSampleId :
IA1

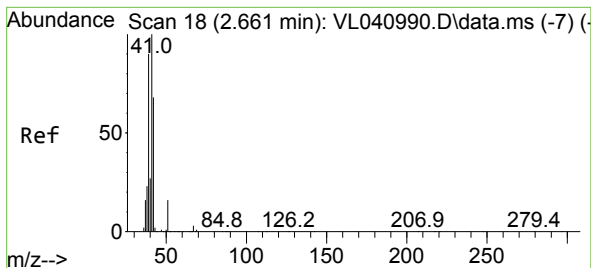
Tgt Ion: 51 Resp: 59390
Ion Ratio Lower Upper
51 100
67 15.1 14.8 22.2



#4
Chloromethane
Concen: 0.480 ppbv
RT: 2.793 min Scan# 59
Delta R.T. 0.007 min
Lab File: VL041038.D
Acq: 7 Feb 2024 13:19

Tgt Ion: 50 Resp: 31657
Ion Ratio Lower Upper
50 100
52 29.6 26.2 39.4





#9

Propene

Concen: 0.681 ppbv

RT: 2.854 min Scan# 71

Delta R.T. 0.187 min

Lab File: VL041038.D

Acq: 7 Feb 2024 13:19

Instrument :

MSVOA_L

ClientSampleId :

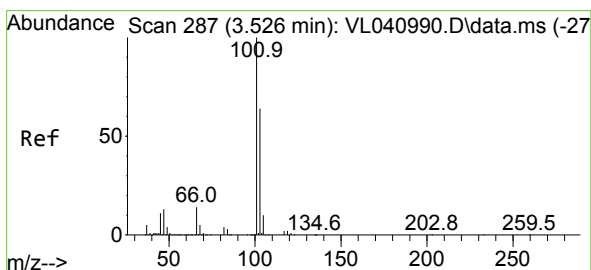
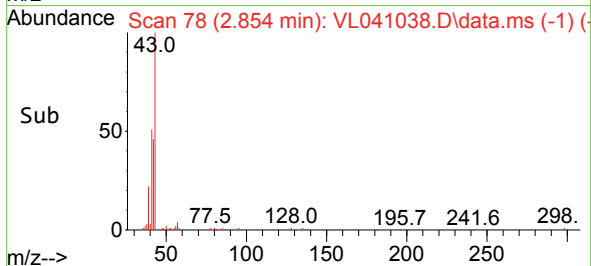
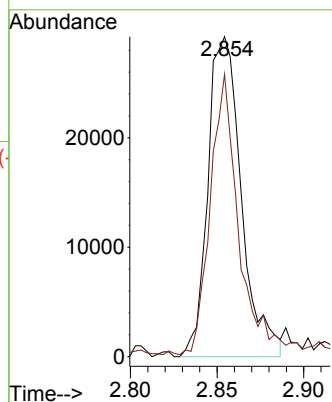
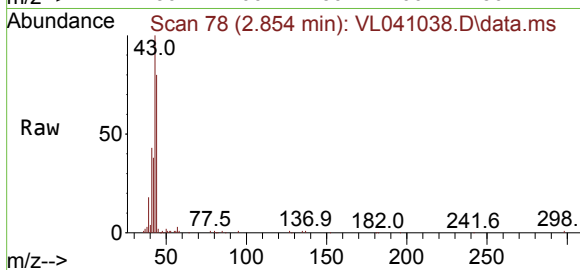
IA1

Tgt Ion: 41 Resp: 39243

Ion Ratio Lower Upper

41 100

42 81.6 59.0 88.4



#11

Trichlorofluoromethane

Concen: 0.222 ppbv

RT: 3.542 min Scan# 292

Delta R.T. 0.010 min

Lab File: VL041038.D

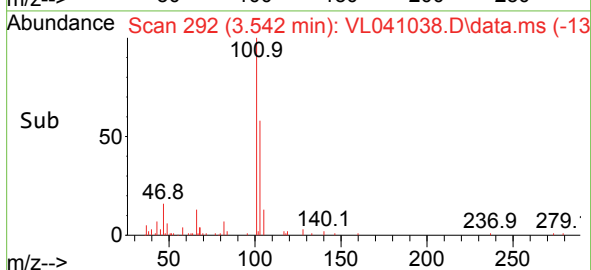
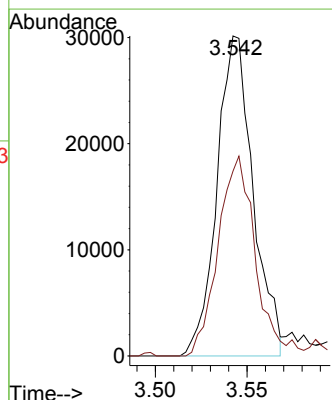
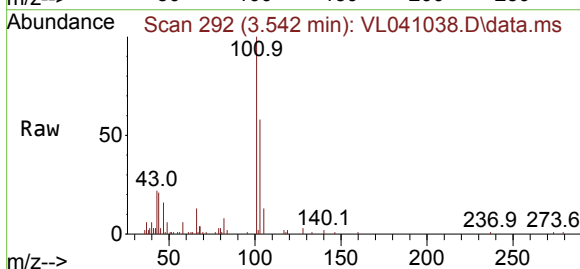
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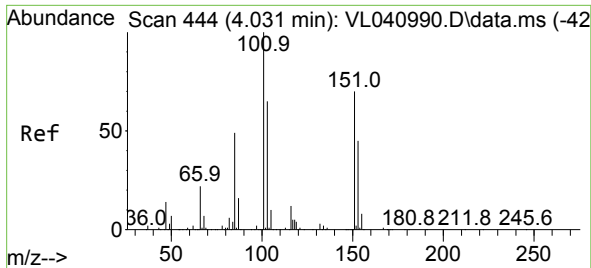
Tgt Ion:101 Resp: 41285

Ion Ratio Lower Upper

101 100

103 57.7 51.4 77.2

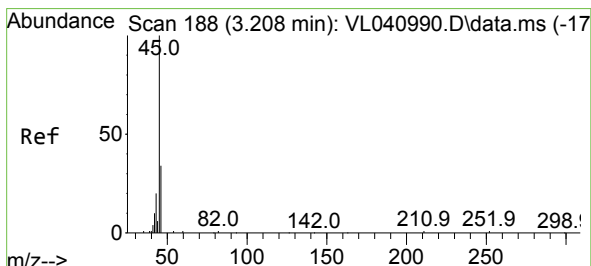
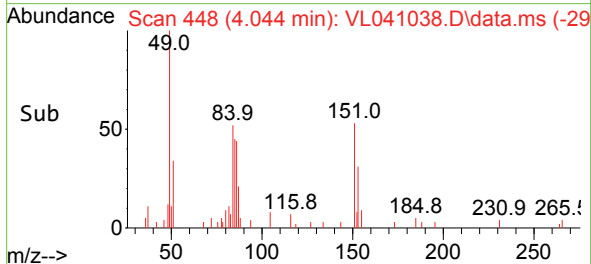
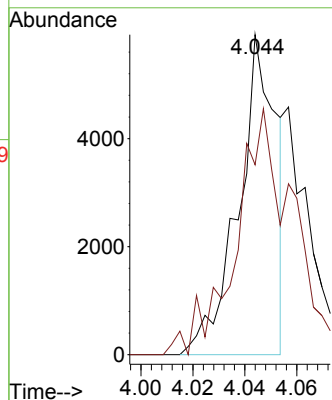
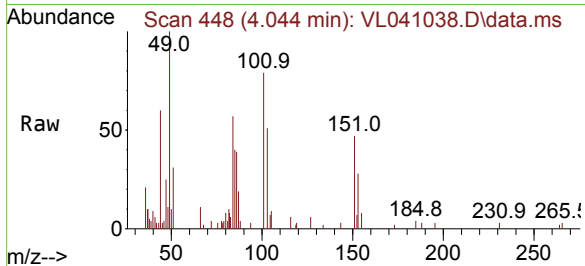




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.044 ppbv
RT: 4.044 min Scan# 444
Delta R.T. 0.003 min
Lab File: VL041038.D
Acq: 7 Feb 2024 13:19

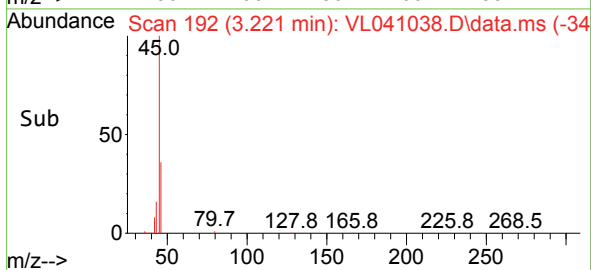
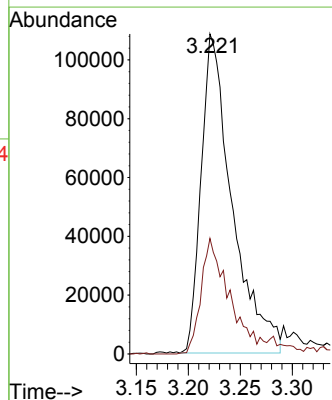
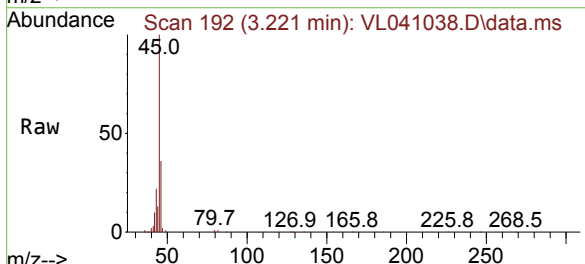
Instrument :
MSVOA_L
ClientSampleId :
IA1

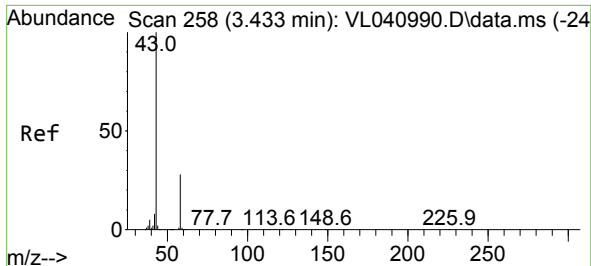
Tgt Ion:101 Resp: 5978
Ion Ratio Lower Upper
101 100
151 118.8 56.6 85.0#



#13
Ethanol
Concen: 16.389 ppbv
RT: 3.221 min Scan# 192
Delta R.T. 0.007 min
Lab File: VL041038.D
Acq: 7 Feb 2024 13:19

Tgt Ion: 45 Resp: 225240
Ion Ratio Lower Upper
45 100
46 38.2 16.2 64.8

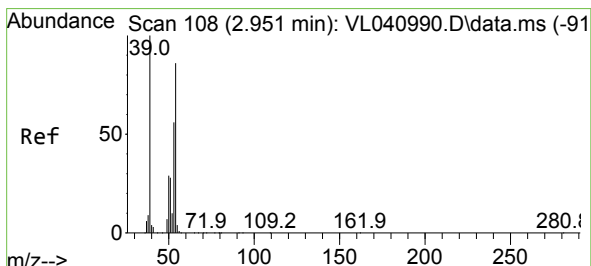
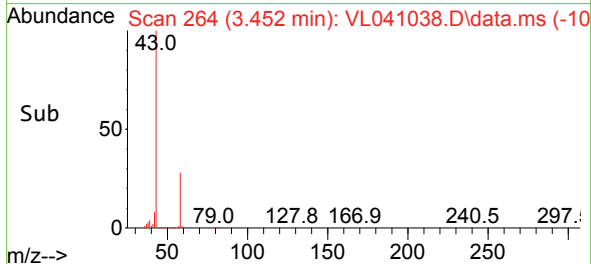
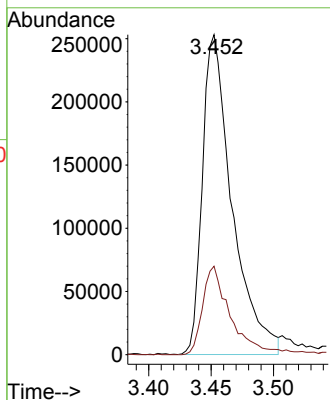
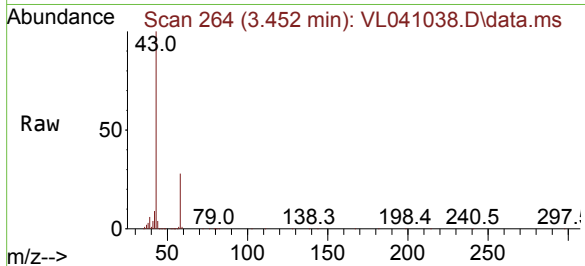




#15
Acetone
Concen: 3.132 ppbv
RT: 3.452 min Scan# 20
Delta R.T. 0.013 min
Lab File: VL041038.D
Acq: 7 Feb 2024 13:19

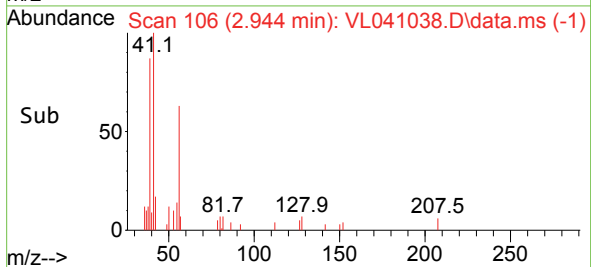
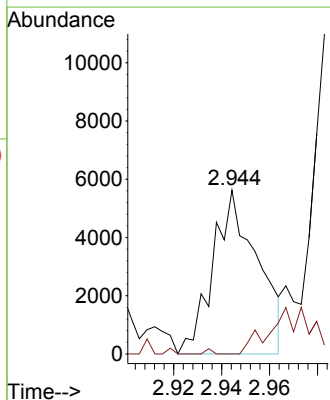
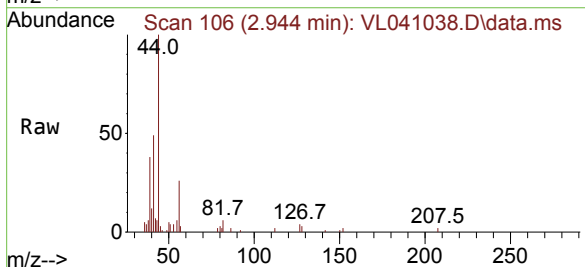
Instrument :
MSVOA_L
ClientSampleId :
IA1

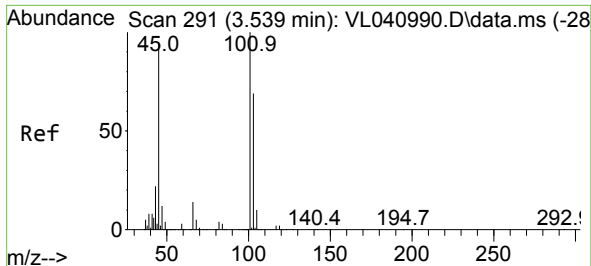
Tgt Ion: 43 Resp: 418674
Ion Ratio Lower Upper
43 100
58 27.0 22.2 33.2



#16
1,3-Butadiene
Concen: 0.113 ppbv
RT: 2.944 min Scan# 106
Delta R.T. -0.013 min
Lab File: VL041038.D
Acq: 7 Feb 2024 13:19

Tgt Ion: 39 Resp: 7247
Ion Ratio Lower Upper
39 100
54 0.0 62.7 94.1#





#19

Isopropyl Alcohol

Concen: 0.152 ppbv

RT: 3.578 min Scan# 303

Delta R.T. 0.029 min

Lab File: VL041038.D

Acq: 7 Feb 2024 13:19

Instrument :

MSVOA_L

ClientSampleId :

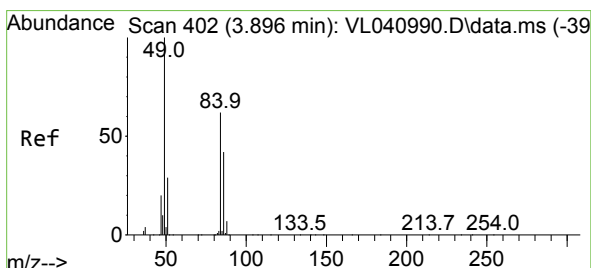
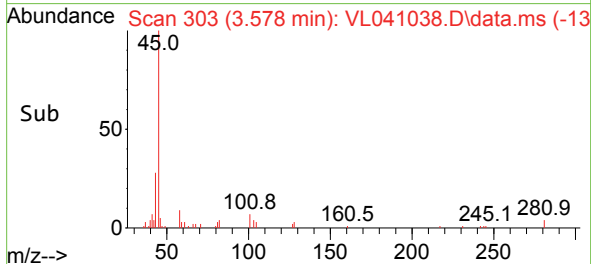
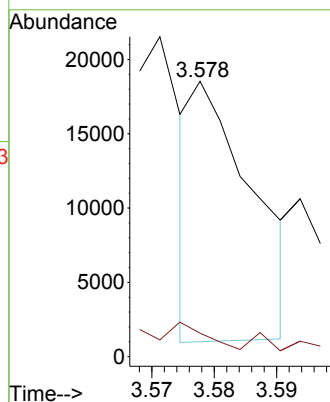
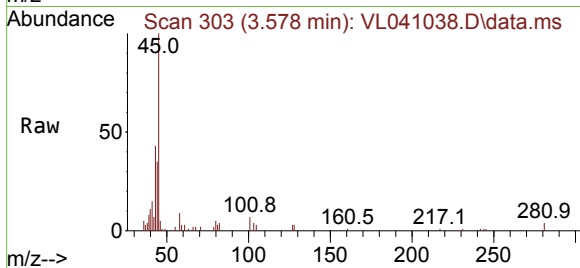
IA1

Tgt Ion: 45 Resp: 11763

Ion Ratio Lower Upper

45 100

58 0.0 2.2 3.4#



#20

Methylene Chloride

Concen: 26.204 ppbv

RT: 3.915 min Scan# 408

Delta R.T. 0.010 min

Lab File: VL041038.D

Acq: 7 Feb 2024 13:19

Tgt Ion: 84 Resp: 1347787

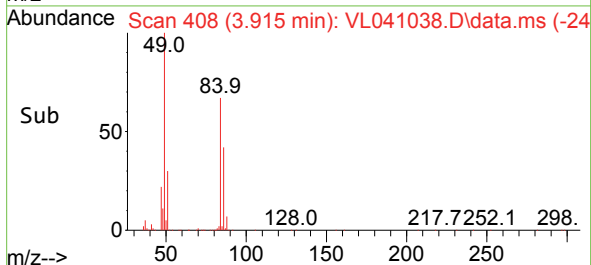
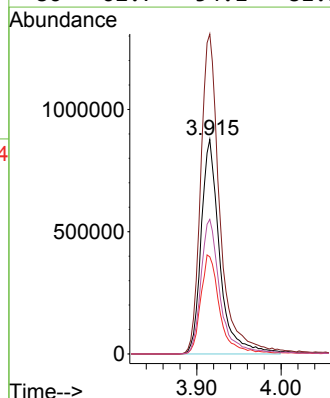
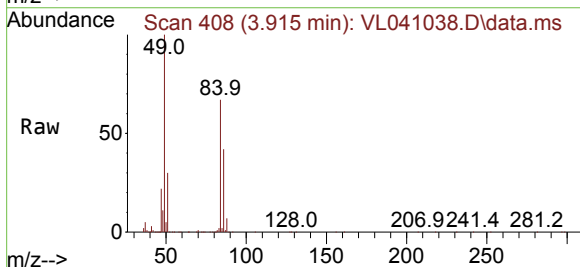
Ion Ratio Lower Upper

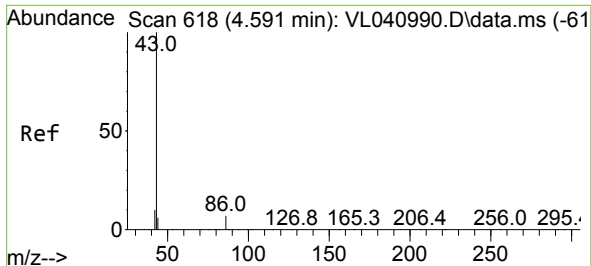
84 100

49 149.2 128.1 192.1

51 45.3 36.5 54.7

86 62.7 54.1 81.1



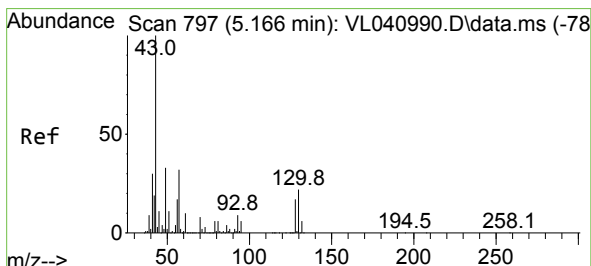
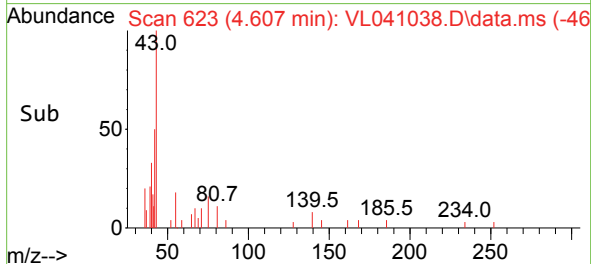
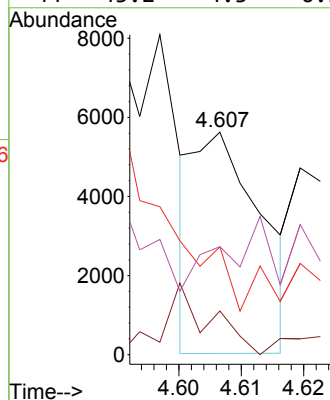
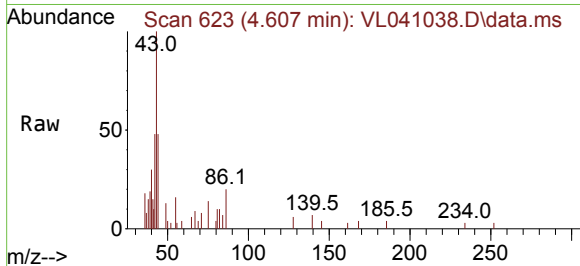


#23
Vinyl Acetate
Concen: 0.030 ppbv
RT: 4.607 min Scan# 61
Delta R.T. 0.007 min
Lab File: VL041038.D
Acq: 7 Feb 2024 13:19

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp: 4149

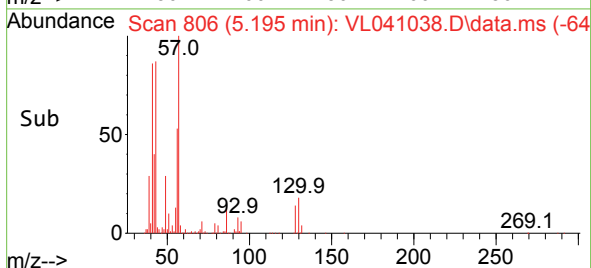
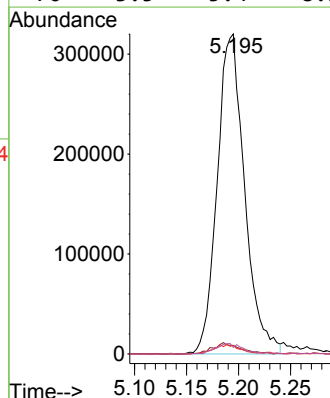
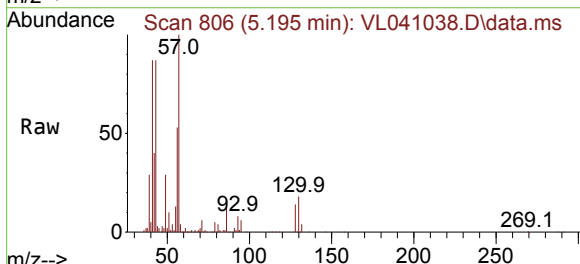
Ion	Ratio	Lower	Upper
43	100		
86	26.7	5.4	8.0#
42	53.0	8.6	13.0#
44	43.2	4.3	6.5#

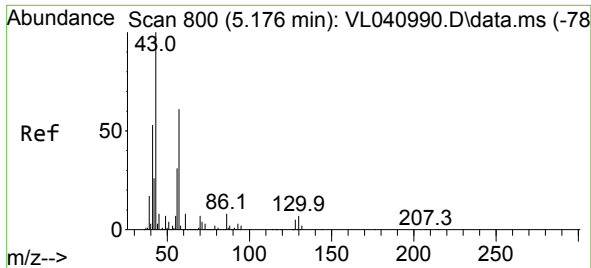


#25
Ethyl Acetate
Concen: 2.423 ppbv
RT: 5.195 min Scan# 806
Delta R.T. 0.016 min
Lab File: VL041038.D
Acq: 7 Feb 2024 13:19

Tgt Ion: 43 Resp: 587297

Ion	Ratio	Lower	Upper
43	100		
45	3.6	8.2	12.4#
61	3.0	7.9	11.9#
70	3.5	5.4	8.2#

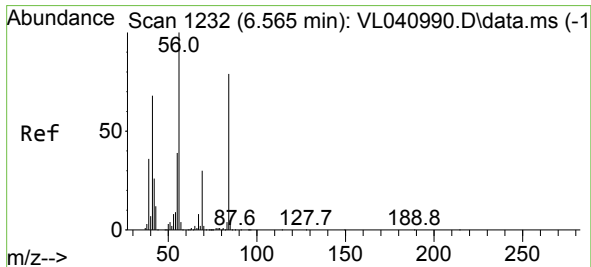
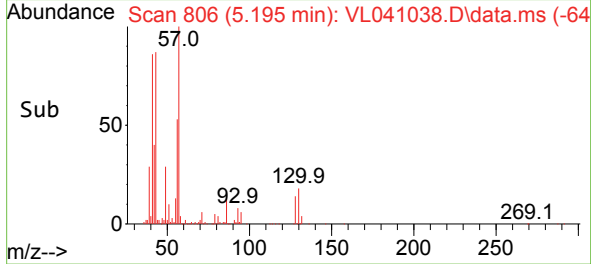
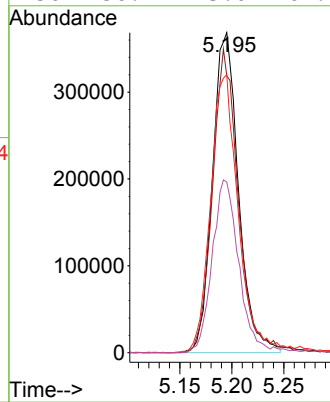
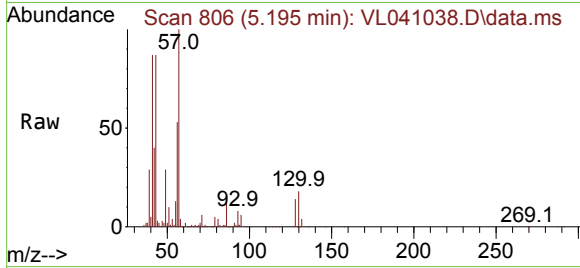




#26
Hexane
Concen: 6.215 ppbv
RT: 5.195 min Scan# 806
Delta R.T. 0.010 min
Lab File: VL041038.D
Acq: 7 Feb 2024 13:19

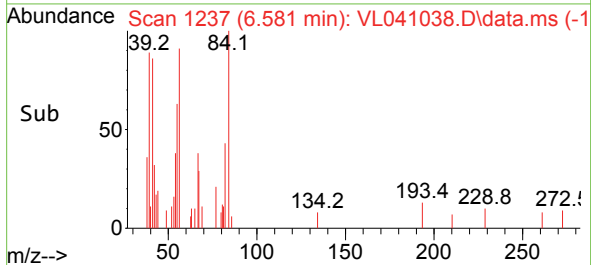
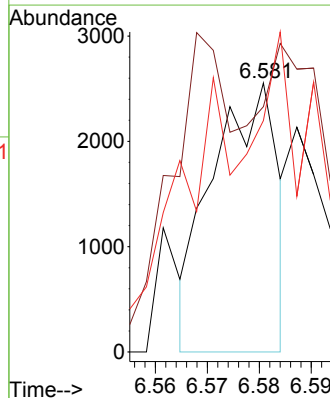
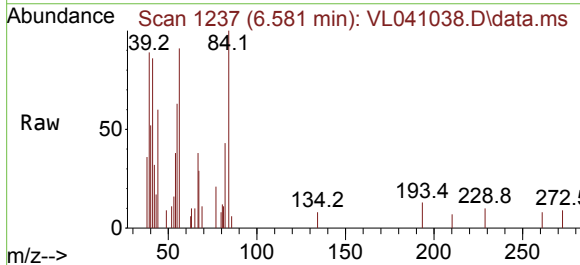
Instrument :
MSVOA_L
ClientSampleId :
IA1

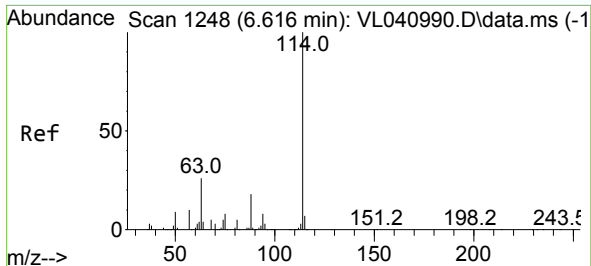
Tgt Ion: 57 Resp: 642073
Ion Ratio Lower Upper
57 100
41 95.5 74.4 111.6
43 94.2 190.6 285.8#
56 56.1 43.0 64.4



#30
Cyclohexane
Concen: 0.026 ppbv
RT: 6.581 min Scan# 1237
Delta R.T. 0.007 min
Lab File: VL041038.D
Acq: 7 Feb 2024 13:19

Tgt Ion: 84 Resp: 2215
Ion Ratio Lower Upper
84 100
56 0.0 111.7 167.5#
41 0.0 71.0 106.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.632 min Scan# 11

Delta R.T. 0.007 min

Lab File: VL041038.D

Acq: 7 Feb 2024 13:19

Instrument :

MSVOA_L

ClientSampleId :

IA1

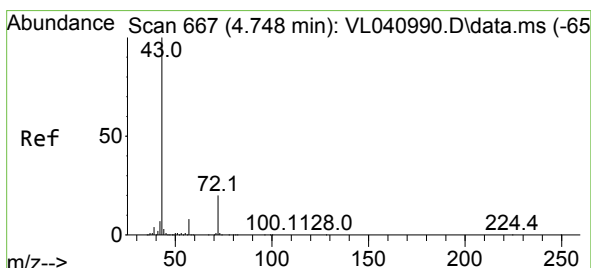
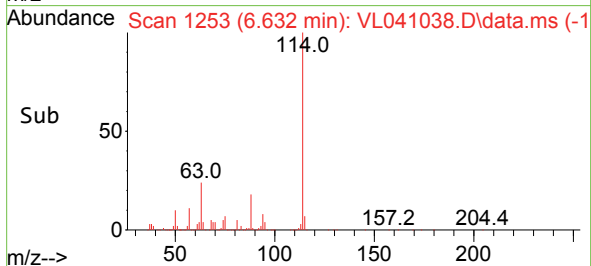
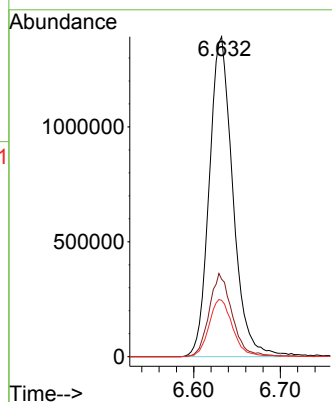
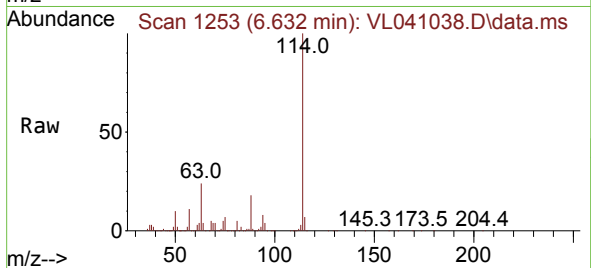
Tgt Ion:114 Resp: 2627312

Ion Ratio Lower Upper

114 100

63 25.6 20.8 31.2

88 18.2 14.3 21.5



#34

2-Butanone

Concen: 0.162 ppbv

RT: 4.777 min Scan# 676

Delta R.T. 0.019 min

Lab File: VL041038.D

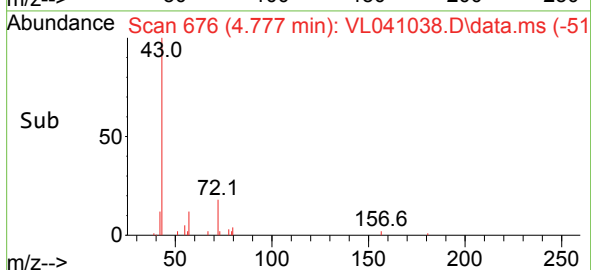
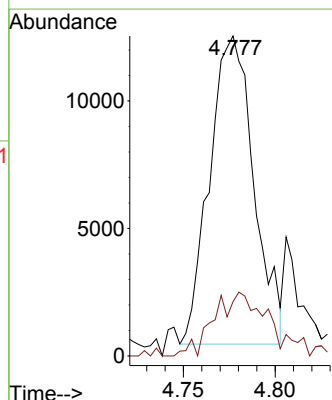
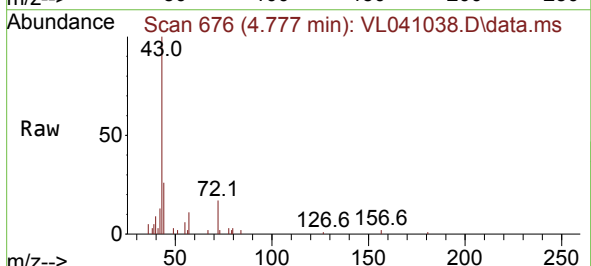
Acq: 7 Feb 2024 13:19

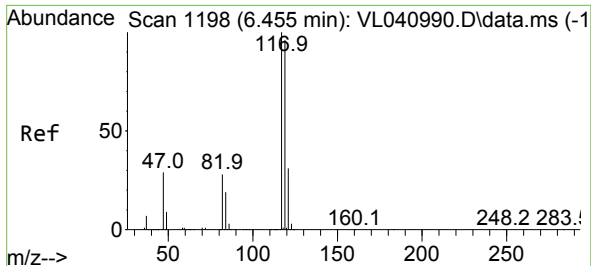
Tgt Ion: 43 Resp: 20232

Ion Ratio Lower Upper

43 100

72 27.1 17.5 26.3#

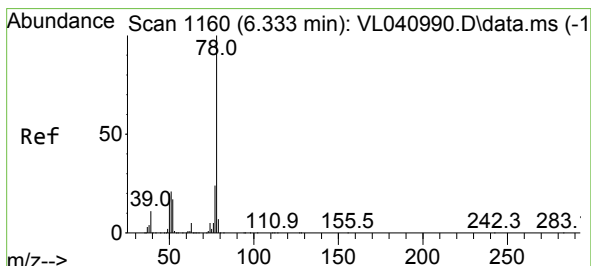
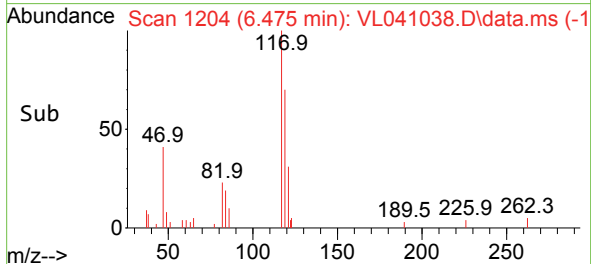
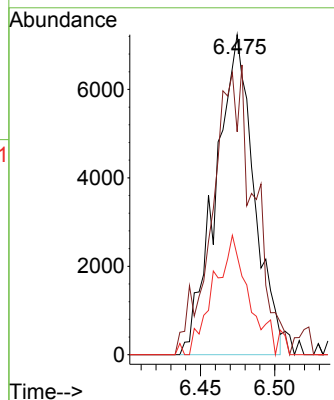
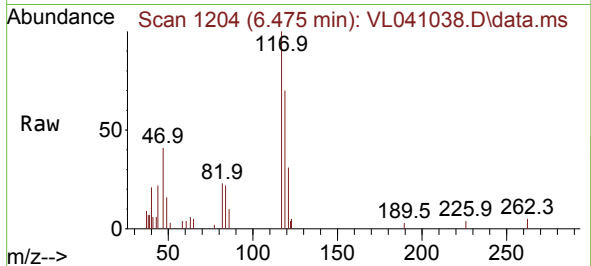




#35
Carbon Tetrachloride
Concen: 0.074 ppbv
RT: 6.475 min Scan# 1198
Delta R.T. 0.010 min
Lab File: VL041038.D
Acq: 7 Feb 2024 13:19

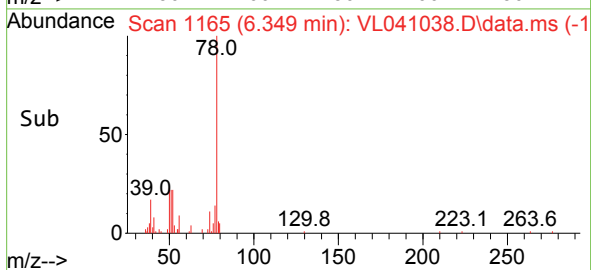
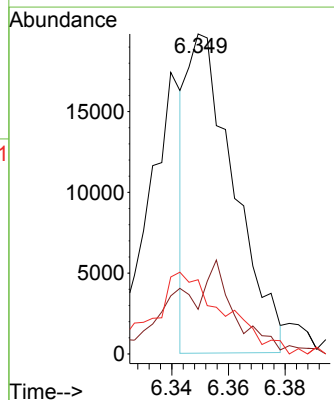
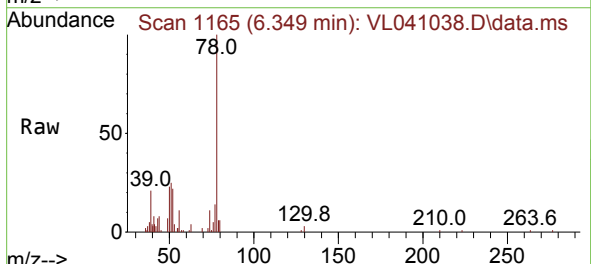
Instrument :
MSVOA_L
ClientSampleId :
IA1

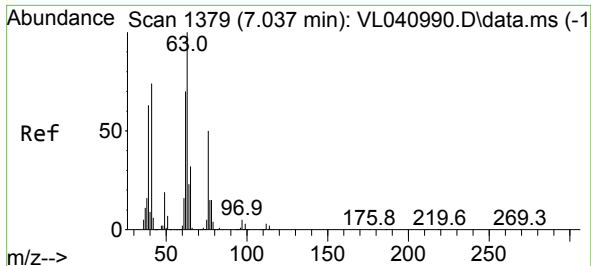
Tgt Ion:117 Resp: 12972
Ion Ratio Lower Upper
117 100
119 62.6 76.9 115.3#
121 27.4 24.7 37.1



#36
Benzene
Concen: 0.105 ppbv
RT: 6.349 min Scan# 1165
Delta R.T. 0.007 min
Lab File: VL041038.D
Acq: 7 Feb 2024 13:19

Tgt Ion: 78 Resp: 22705
Ion Ratio Lower Upper
78 100
77 14.0 19.0 28.4#
50 20.9 15.8 23.6





#39

1,2-Dichloropropane

Concen: 0.098 ppbv

RT: 6.674 min Scan# 11

Delta R.T. -0.373 min

Lab File: VL041038.D

Acq: 7 Feb 2024 13:19

Instrument :

MSVOA_L

ClientSampleId :

IA1

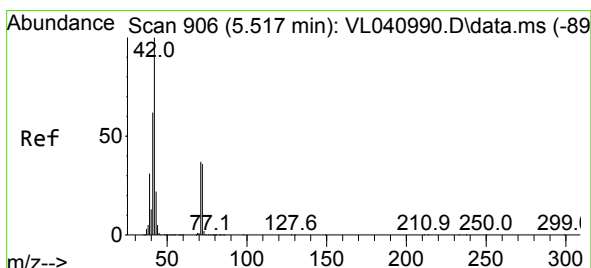
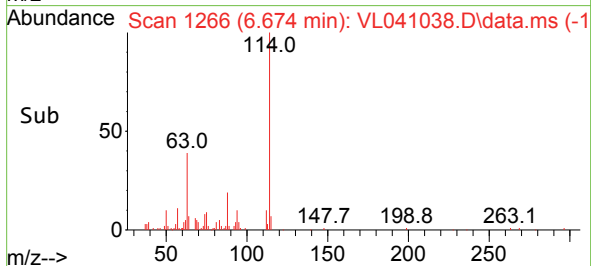
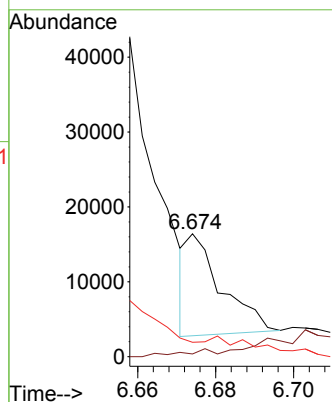
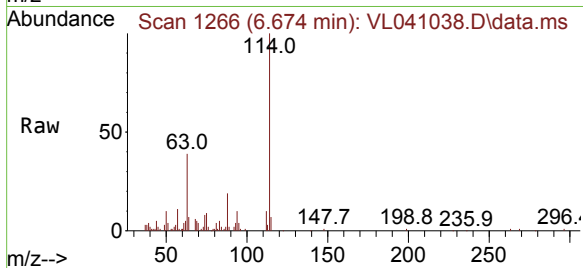
Tgt Ion: 63 Resp: 8376

Ion Ratio Lower Upper

63 100

41 0.0 59.6 89.4#

62 8.3 55.6 83.4#



#41

Tetrahydrofuran

Concen: 3.183 ppbv

RT: 5.192 min Scan# 805

Delta R.T. -0.338 min

Lab File: VL041038.D

Acq: 7 Feb 2024 13:19

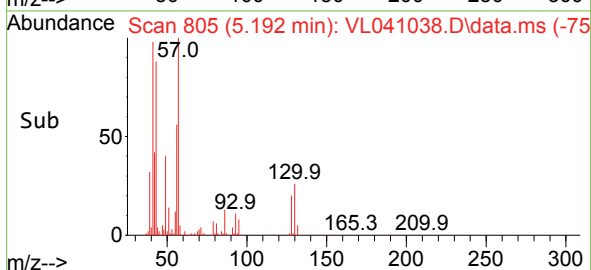
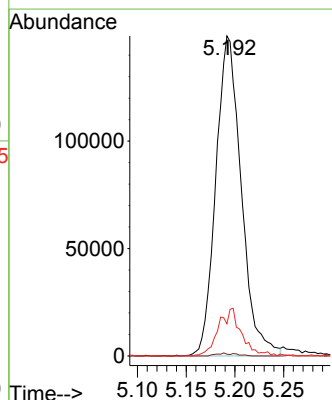
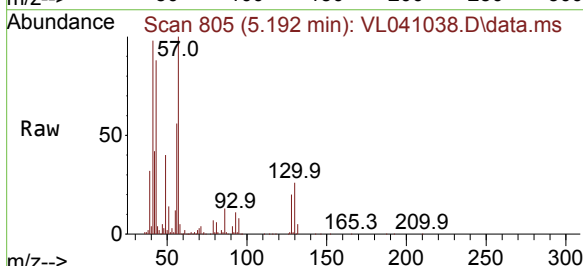
Tgt Ion: 42 Resp: 270474

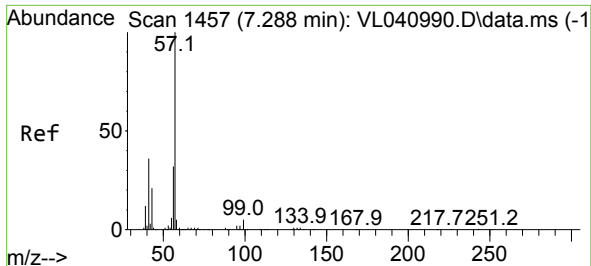
Ion Ratio Lower Upper

42 100

72 0.7 30.0 45.0#

71 13.7 29.5 44.3#

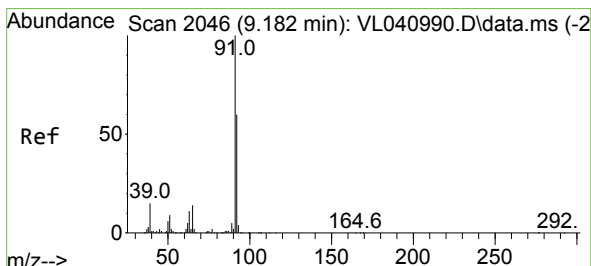
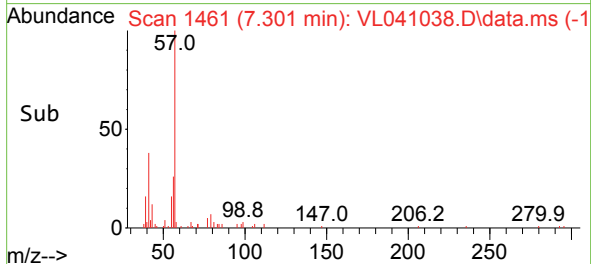
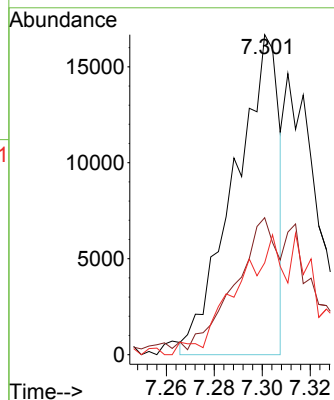
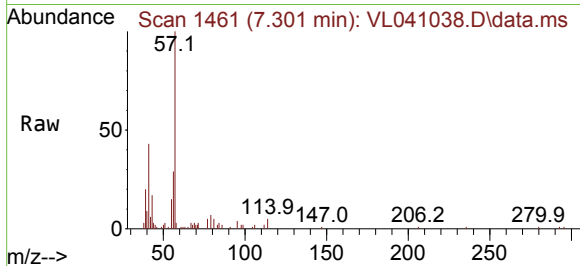




#44
2,2,4-Trimethylpentane
Concen: 0.059 ppbv
RT: 7.301 min Scan# 1457
Delta R.T. 0.003 min
Lab File: VL041038.D
Acq: 7 Feb 2024 13:19

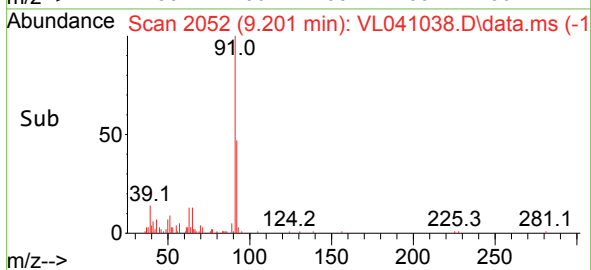
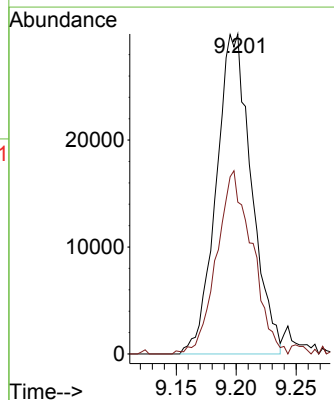
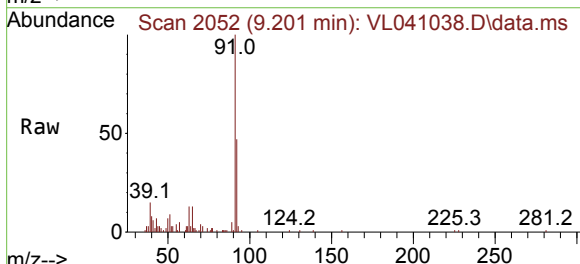
Instrument :
MSVOA_L
ClientSampleId :
IA1

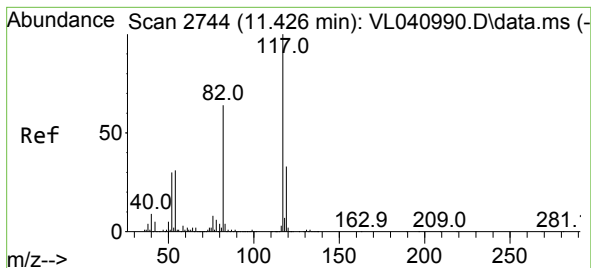
Tgt Ion: 57 Resp: 21624
Ion Ratio Lower Upper
57 100
41 77.2 28.6 43.0#
56 0.0 25.2 37.8#



#53
Toluene
Concen: 0.257 ppbv
RT: 9.201 min Scan# 2052
Delta R.T. 0.007 min
Lab File: VL041038.D
Acq: 7 Feb 2024 13:19

Tgt Ion: 91 Resp: 61092
Ion Ratio Lower Upper
91 100
92 59.3 48.6 72.8

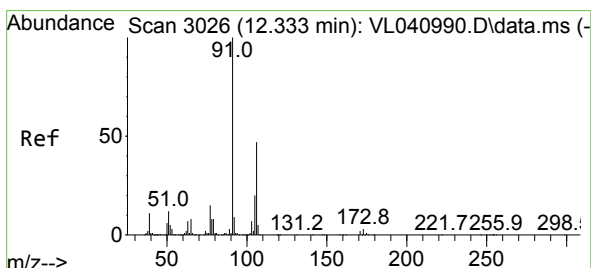
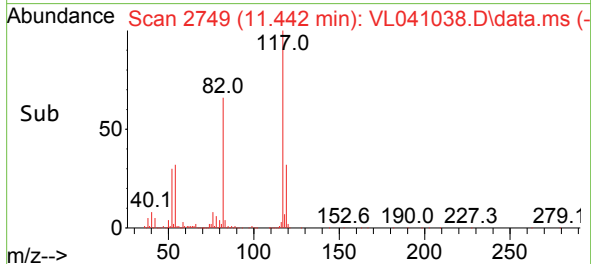
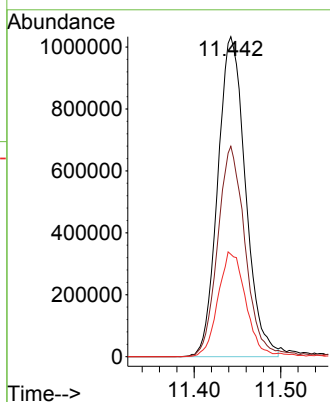
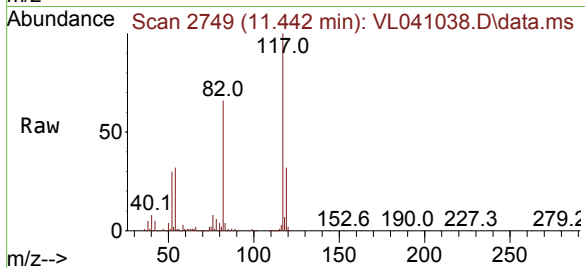




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.442 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL041038.D
Acq: 7 Feb 2024 13:19

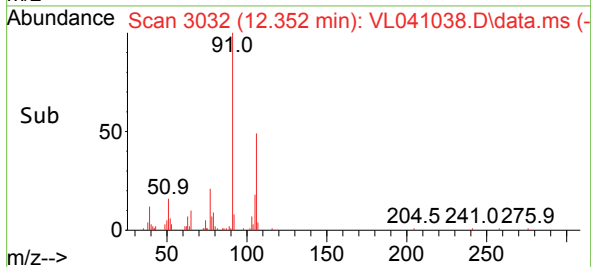
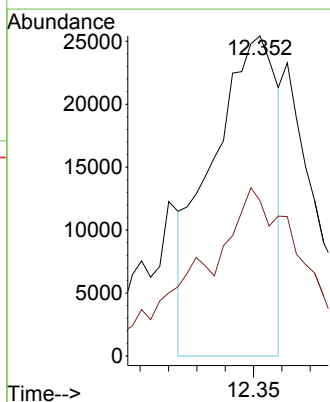
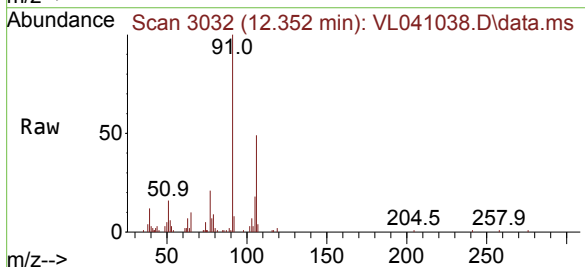
Instrument :
MSVOA_L
ClientSampleId :
IA1

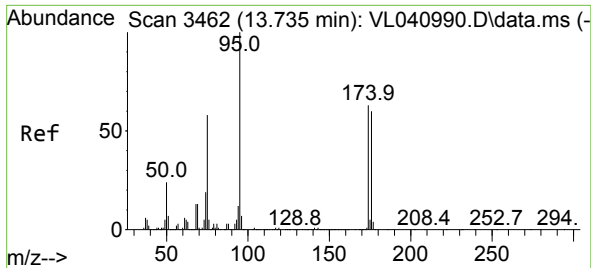
Tgt Ion:117 Resp: 2298861
Ion Ratio Lower Upper
117 100
82 66.5 51.7 77.5
119 33.1 23.8 35.6



#59
m/p-Xylene
Concen: 0.152 ppbv
RT: 12.352 min Scan# 3032
Delta R.T. 0.003 min
Lab File: VL041038.D
Acq: 7 Feb 2024 13:19

Tgt Ion: 91 Resp: 40886
Ion Ratio Lower Upper
91 100
106 89.5 34.9 52.3#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.076 ppbv
 RT: 13.754 min Scan# 3468
 Delta R.T. 0.007 min
 Lab File: VL041038.D
 Acq: 7 Feb 2024 13:19

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Tgt Ion: 95 Resp: 1749569

Ion	Ratio	Lower	Upper
95	100		
174	62.2	49.1	73.7
175	4.6	3.7	5.5

