

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020924\
 Data File : VL041060.D
 Acq On : 9 Feb 2024 16:25
 Operator : SY/MD
 Sample : P1420-06
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 12 00:48:14 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 : Mon Feb 12 00:40:04 2024
 Response via : Initial Calibration

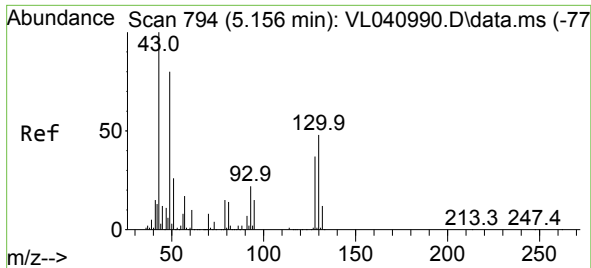
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.185	49	1083743	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.648	114	2992380	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.462	117	2705955	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.770	95	2010862	9.839	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.726	85	113289	0.473	ppbv	97
3) Chlorodifluoromethane	2.671	51	75076	0.412	ppbv #	87
4) Chloromethane	2.809	50	44756	0.655	ppbv	99
7) Chloroethane	3.192	64	672	0.028	ppbv #	27
9) Propene	2.700	41	158843	2.657	ppbv #	67
10) Heptane	7.574	43	7920	0.054	ppbv #	35
11) Trichlorofluoromethane	3.558	101	41399	0.215	ppbv	86
12) 1,1,2-Trichlorotrifluo...	4.063	101	6015	0.043	ppbv #	38
13) Ethanol	3.234	45	488060	34.251	ppbv	93
15) Acetone	3.465	43	889871	6.421	ppbv	100
16) 1,3-Butadiene	2.980	39	3535	0.053	ppbv #	1
19) Isopropyl Alcohol	3.584	45	72740	0.907	ppbv #	1
20) Methylene Chloride	3.928	84	1707255	32.014	ppbv	97
21) Allyl Chloride	3.976	41	1785	0.021	ppbv #	1
23) Vinyl Acetate	4.623	43	7204	0.050	ppbv #	58
25) Ethyl Acetate	5.211	43	885640	3.524	ppbv #	77
26) Hexane	5.208	57	1253920	11.707	ppbv #	38
30) Cyclohexane	6.597	84	2054	0.023	ppbv #	1
34) 2-Butanone	4.787	43	51857	0.364	ppbv #	75
36) Benzene	6.365	78	75005	0.304	ppbv #	92
39) 1,2-Dichloropropane	6.648	63	714709	7.341	ppbv #	24
41) Tetrahydrofuran	5.208	42	461143	4.764	ppbv #	51
44) 2,2,4-Trimethylpentane	7.324	57	42904	0.103	ppbv #	84
53) Toluene	9.217	91	147449	0.545	ppbv	97
58) Ethyl Benzene	12.082	91	14125	0.039	ppbv	95
59) m/p-Xylene	12.365	91	14428	0.046	ppbv #	1
74) 1,2,4-Trimethylbenzene	16.108	105	9540	0.028	ppbv #	46

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

Quant Time: Feb 12 00:48:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL012324AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Mon Feb 12 00:40:04 2024
Response via : Initial Calibration

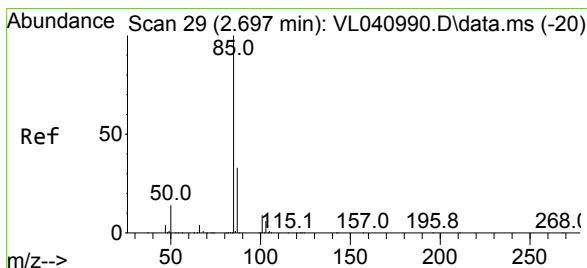
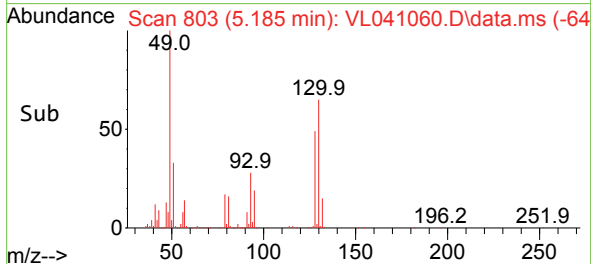
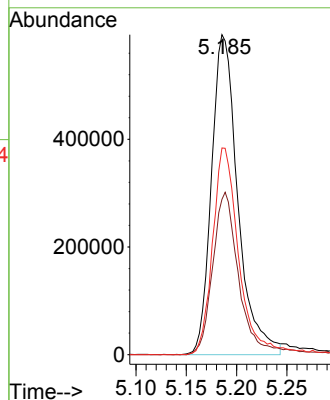
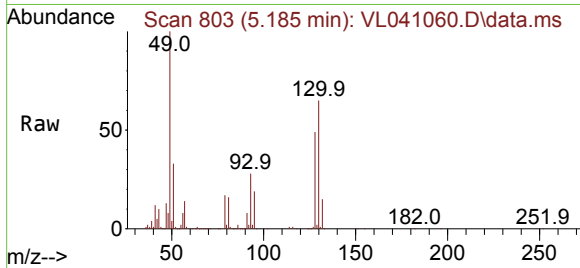




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.185 min Scan# 80
 Delta R.T. 0.009 min
 Lab File: VL041060.D
 Acq: 9 Feb 2024 16:25

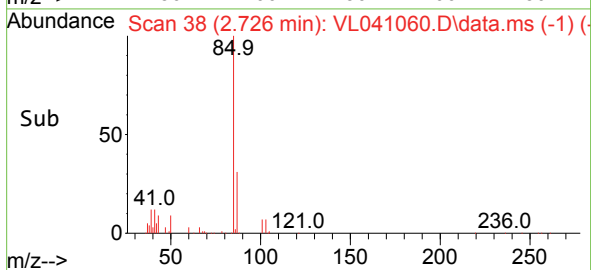
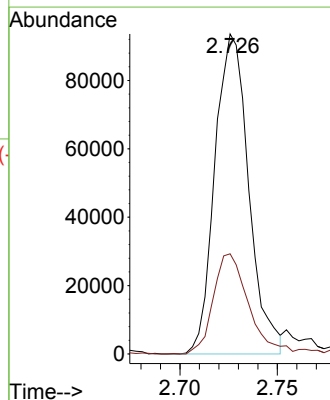
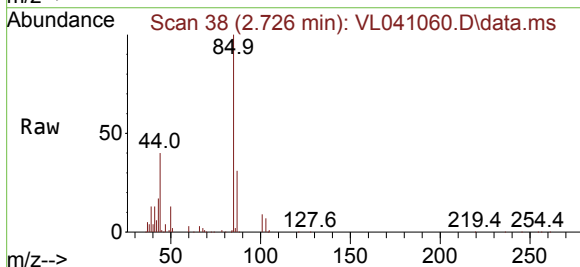
Instrument :
 MSVOA_L
 ClientSampleId :

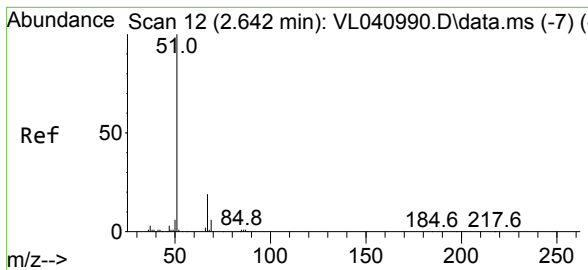
Tgt Ion: 49 Resp: 1083743
 Ion Ratio Lower Upper
 49 100
 128 51.9 23.9 71.7
 130 66.3 31.1 93.5



#2
 Dichlorodifluoromethane
 Concen: 0.473 ppbv
 RT: 2.726 min Scan# 38
 Delta R.T. 0.010 min
 Lab File: VL041060.D
 Acq: 9 Feb 2024 16:25

Tgt Ion: 85 Resp: 113289
 Ion Ratio Lower Upper
 85 100
 87 31.3 26.3 39.5

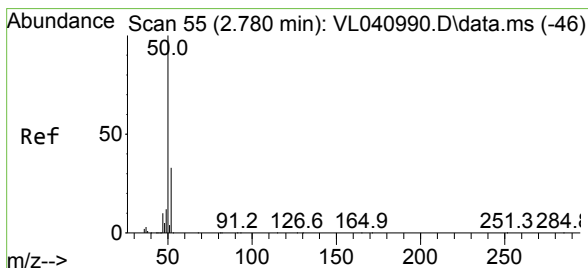
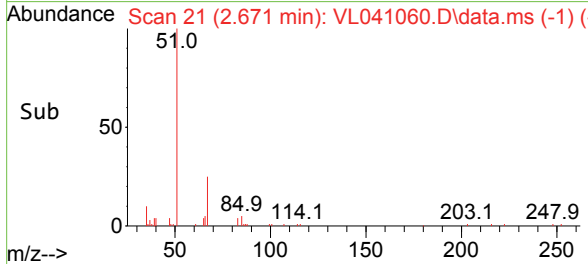
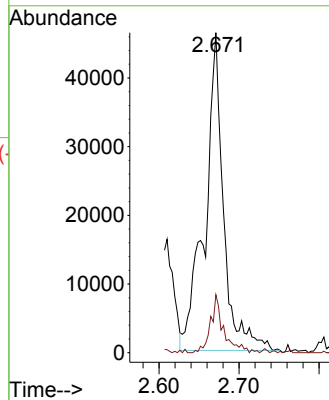
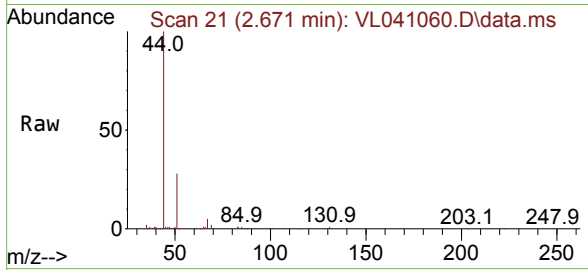




#3
Chlorodifluoromethane
Concen: 0.412 ppbv
RT: 2.671 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL041060.D
Acq: 9 Feb 2024 16:25

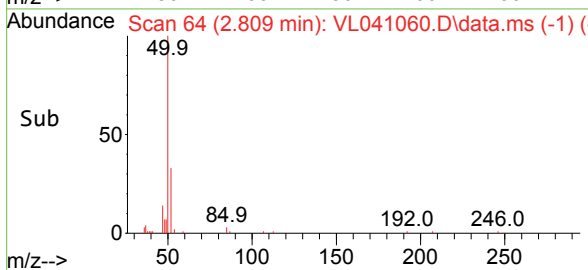
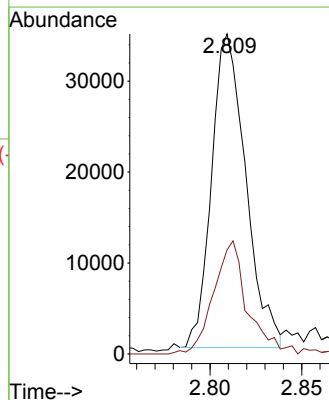
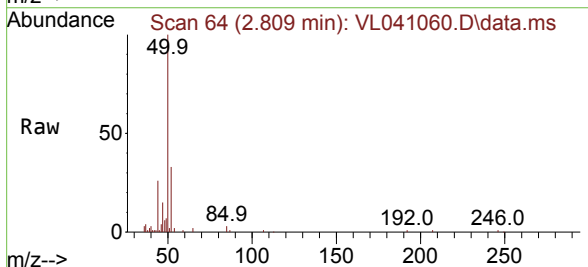
Instrument :
MSVOA_L
ClientSampleId :

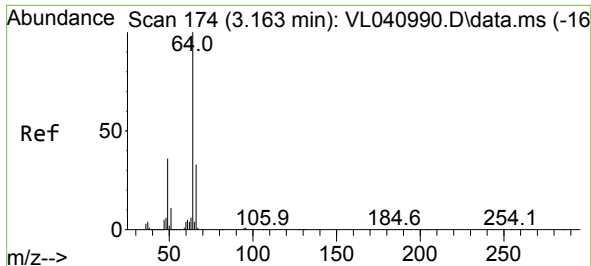
Tgt Ion: 51 Resp: 75076
Ion Ratio Lower Upper
51 100
67 12.8 14.8 22.2#



#4
Chloromethane
Concen: 0.655 ppbv
RT: 2.809 min Scan# 64
Delta R.T. 0.013 min
Lab File: VL041060.D
Acq: 9 Feb 2024 16:25

Tgt Ion: 50 Resp: 44756
Ion Ratio Lower Upper
50 100
52 32.2 26.2 39.4

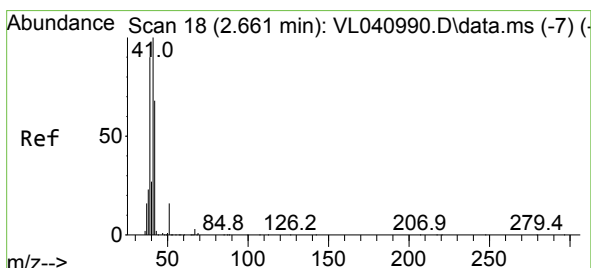
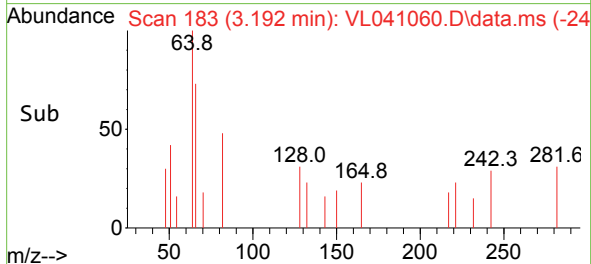
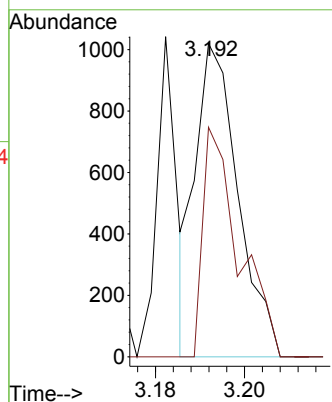
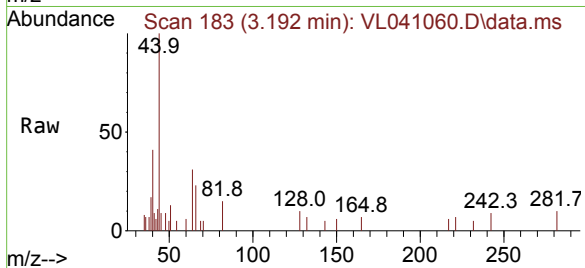




#7
Chloroethane
Concen: 0.028 ppbv
RT: 3.192 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL041060.D
Acq: 9 Feb 2024 16:25

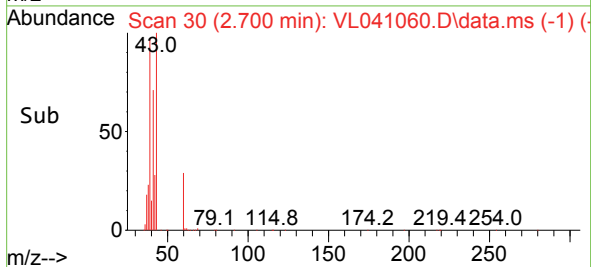
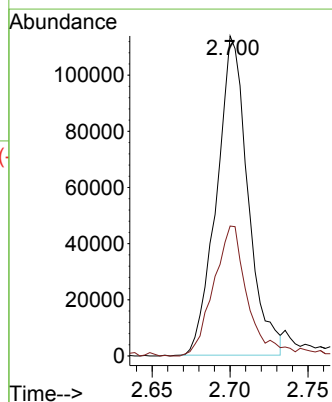
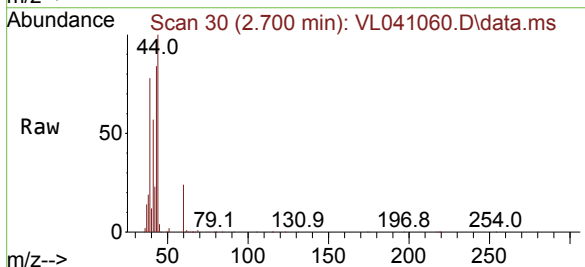
Instrument :
MSVOA_L
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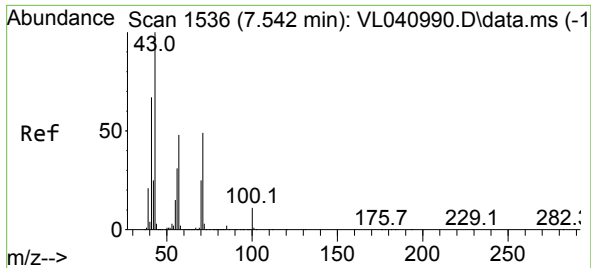
Tgt Ion: 64 Resp: 672
Ion Ratio Lower Upper
64 100
66 73.2 26.0 39.0#



#9
Propene
Concen: 2.657 ppbv
RT: 2.700 min Scan# 30
Delta R.T. 0.023 min
Lab File: VL041060.D
Acq: 9 Feb 2024 16:25

Tgt Ion: 41 Resp: 158843
Ion Ratio Lower Upper
41 100
42 45.7 59.0 88.4#

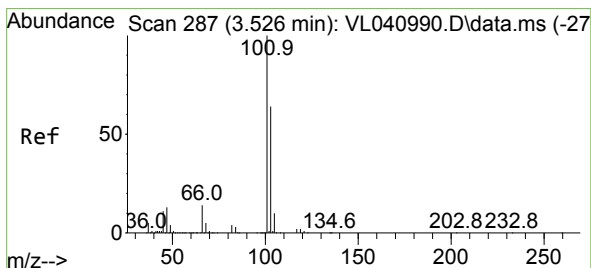
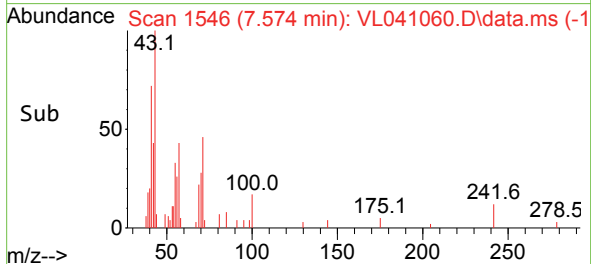
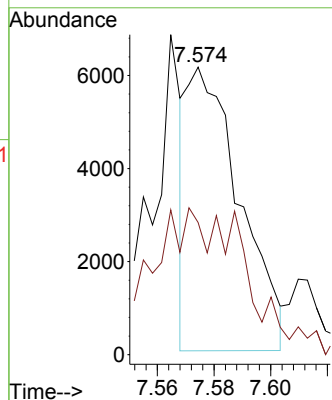
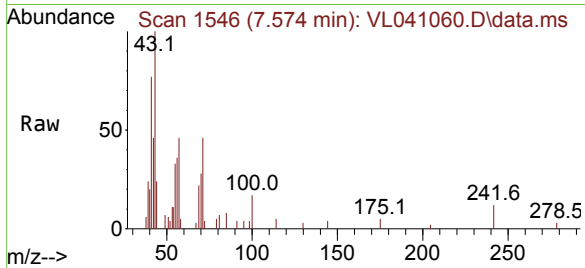




#10
 Heptane
 Concen: 0.054 ppbv
 RT: 7.574 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: VL041060.D
 Acq: 9 Feb 2024 16:25

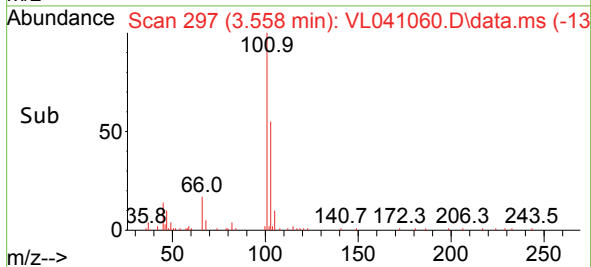
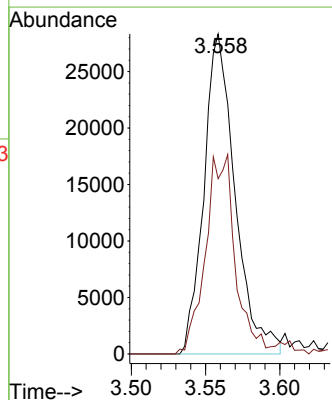
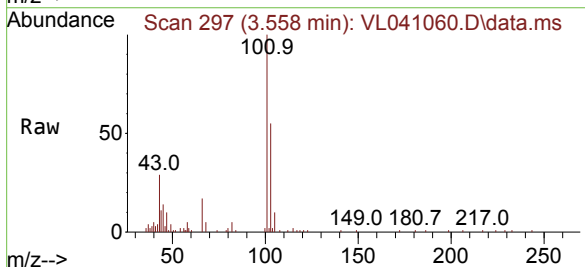
Instrument :
 MSVOA_L
 ClientSampleId :

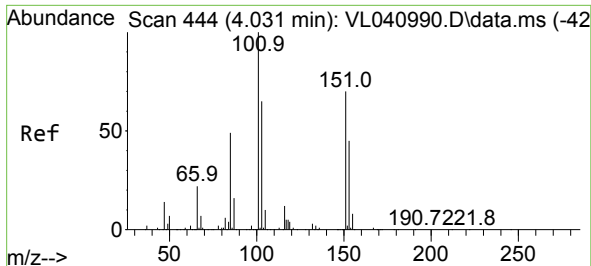
Tgt Ion: 43 Resp: 7920
 Ion Ratio Lower Upper
 43 100
 57 94.0 39.4 59.2#



#11
 Trichlorofluoromethane
 Concen: 0.215 ppbv
 RT: 3.558 min Scan# 297
 Delta R.T. 0.010 min
 Lab File: VL041060.D
 Acq: 9 Feb 2024 16:25

Tgt Ion:101 Resp: 41399
 Ion Ratio Lower Upper
 101 100
 103 53.3 51.4 77.2

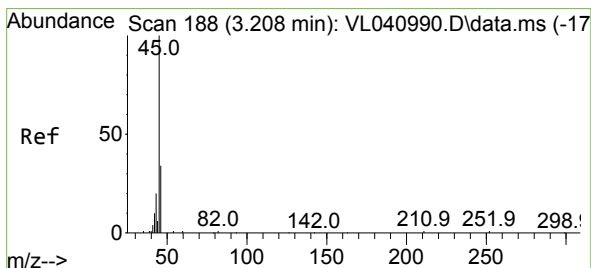
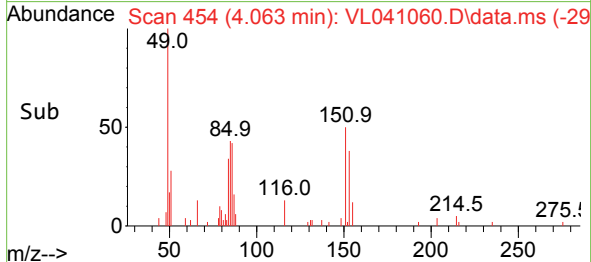
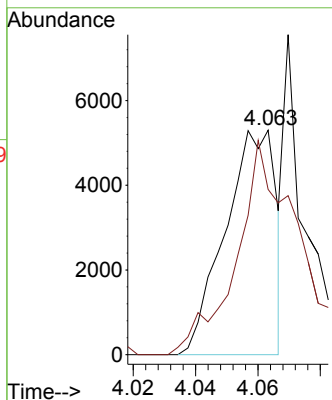
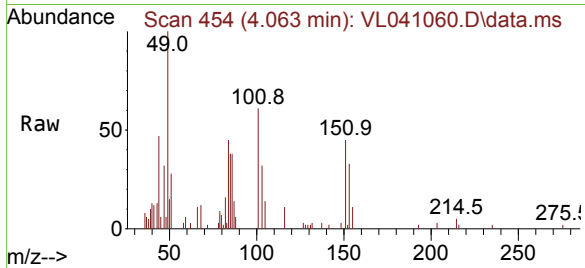




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.043 ppbv
RT: 4.063 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL041060.D
Acq: 9 Feb 2024 16:25

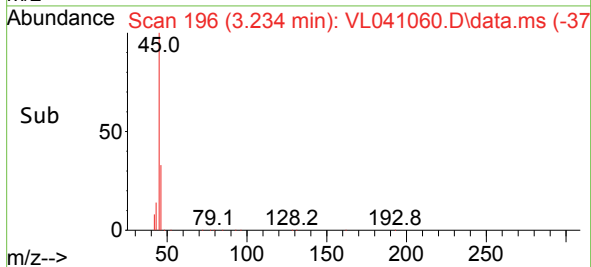
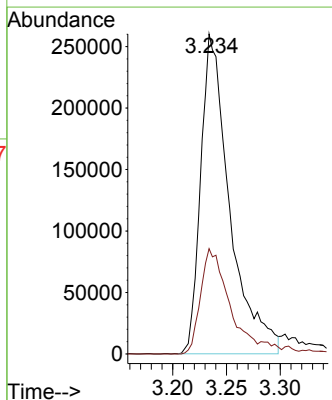
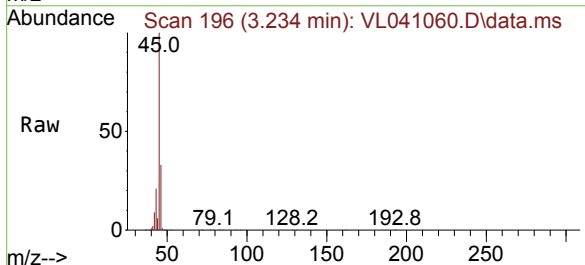
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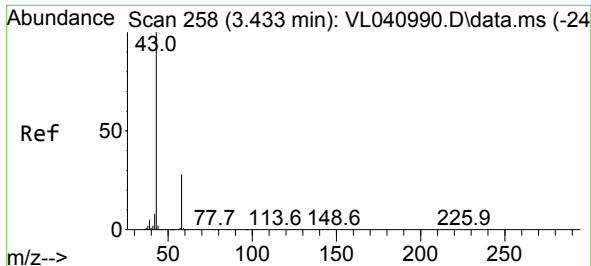
Tgt Ion:101 Resp: 6015
Ion Ratio Lower Upper
101 100
151 122.2 56.6 85.0#



#13
Ethanol
Concen: 34.251 ppbv
RT: 3.234 min Scan# 196
Delta R.T. 0.010 min
Lab File: VL041060.D
Acq: 9 Feb 2024 16:25

Tgt Ion: 45 Resp: 488060
Ion Ratio Lower Upper
45 100
46 36.3 16.2 64.8

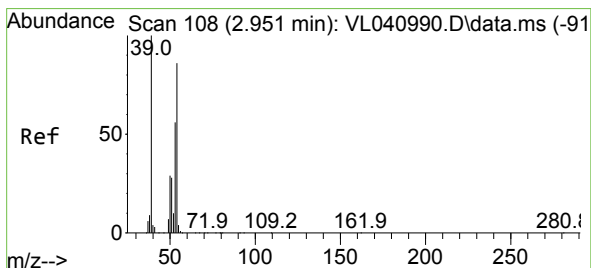
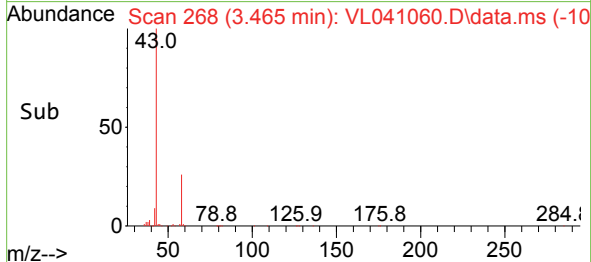
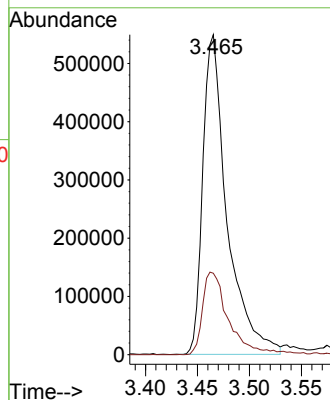
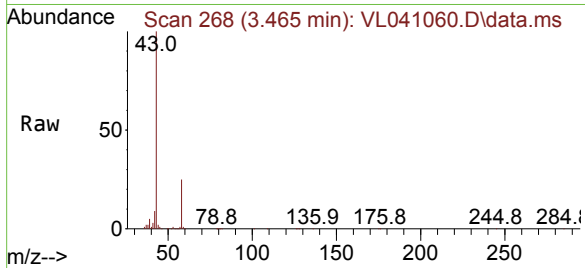




#15
Acetone
Concen: 6.421 ppbv
RT: 3.465 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL041060.D
Acq: 9 Feb 2024 16:25

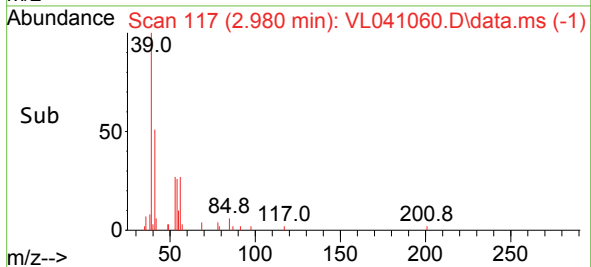
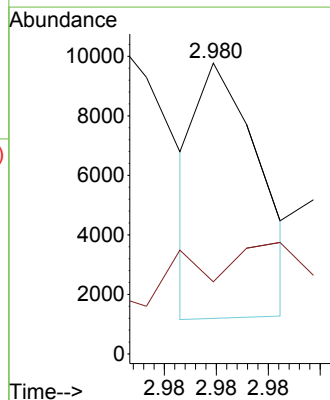
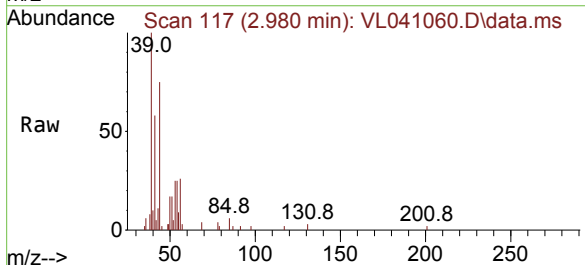
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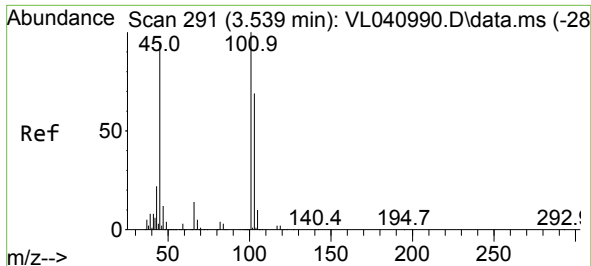
Tgt Ion: 43 Resp: 889871
Ion Ratio Lower Upper
43 100
58 27.9 22.2 33.2



#16
1,3-Butadiene
Concen: 0.053 ppbv
RT: 2.980 min Scan# 117
Delta R.T. 0.010 min
Lab File: VL041060.D
Acq: 9 Feb 2024 16:25

Tgt Ion: 39 Resp: 3535
Ion Ratio Lower Upper
39 100
54 192.5 62.7 94.1#





#19

Isopropyl Alcohol

Concen: 0.907 ppbv

RT: 3.584 min Scan# 305

Delta R.T. 0.023 min

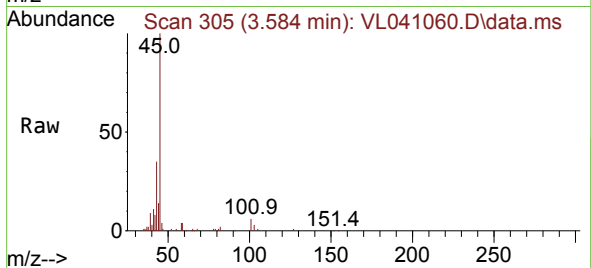
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Instrument :

MSVOA_L

ClientSampleId :

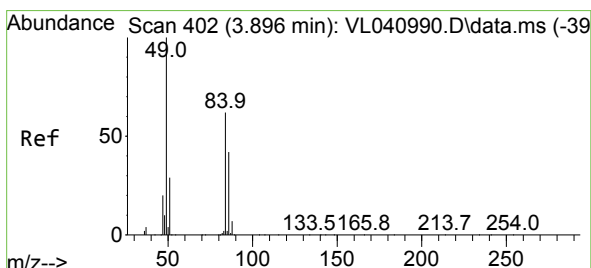
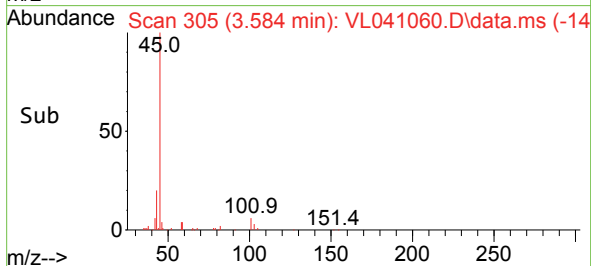
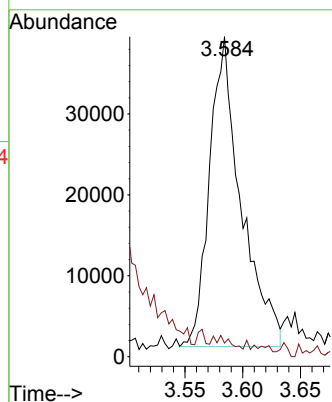


Tgt Ion: 45 Resp: 72740

Ion Ratio Lower Upper

45 100

58 343.4 2.2 3.4#



#20

Methylene Chloride

Concen: 32.014 ppbv

RT: 3.928 min Scan# 412

Delta R.T. 0.010 min

Lab File: VL041060.D

Acq: 9 Feb 2024 16:25

Tgt Ion: 84 Resp: 1707255

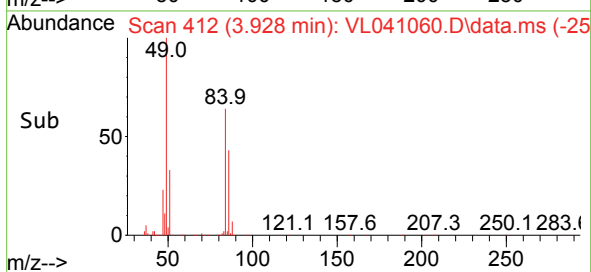
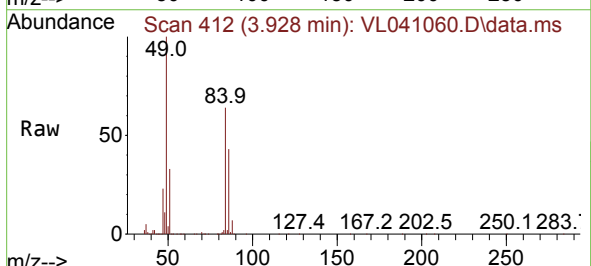
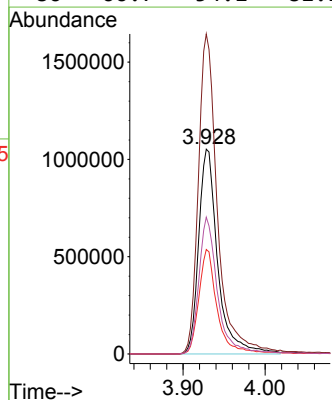
Ion Ratio Lower Upper

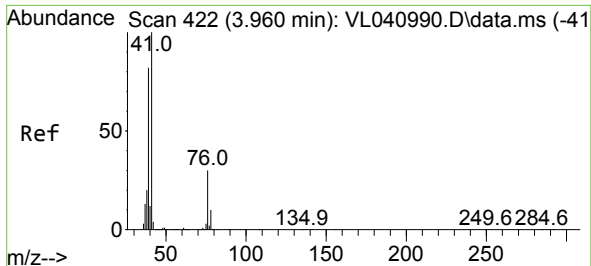
84 100

49 156.1 128.1 192.1

51 51.0 36.5 54.7

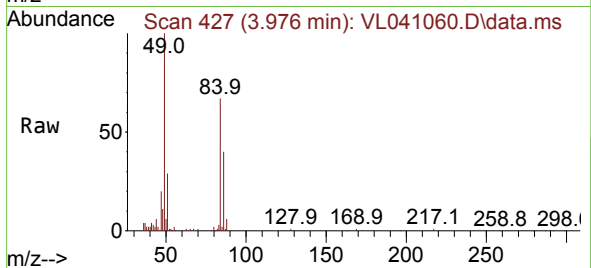
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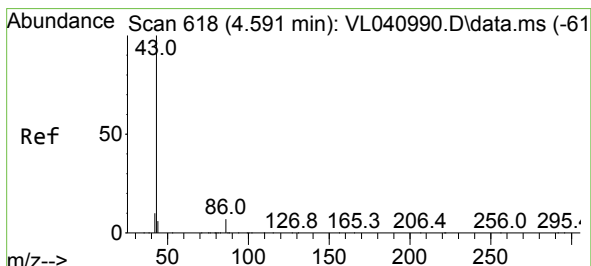
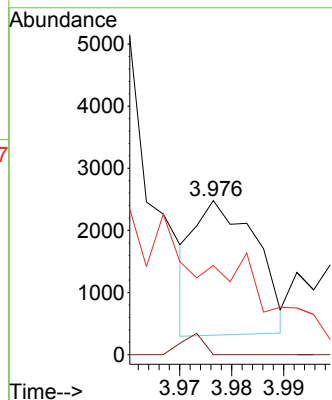
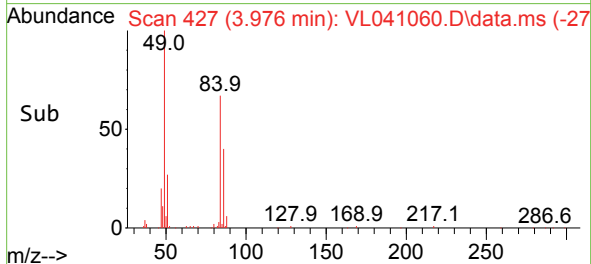


#21
 Allyl Chloride
 Concen: 0.021 ppbv
 RT: 3.976 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL041060.D
 Acq: 9 Feb 2024 16:25

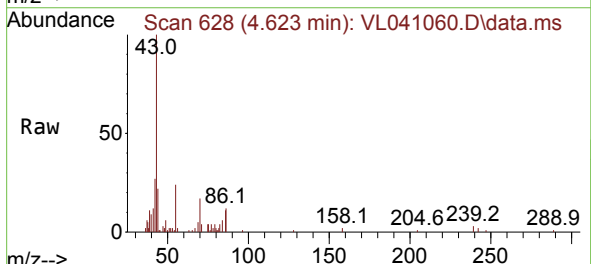
Instrument :
 MSVOA_L
 ClientSampleId :



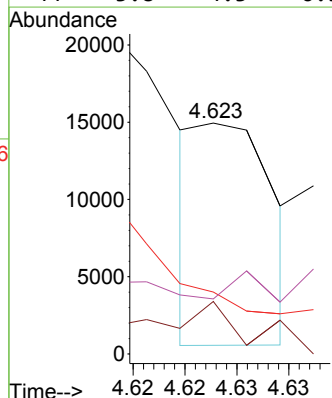
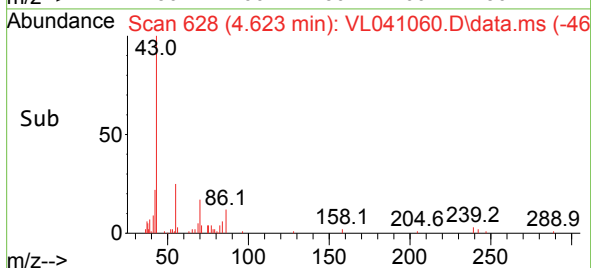
Tgt Ion: 41 Resp: 1785
 Ion Ratio Lower Upper
 41 100
 76 0.0 25.0 37.4#
 39 293.2 67.0 100.6#

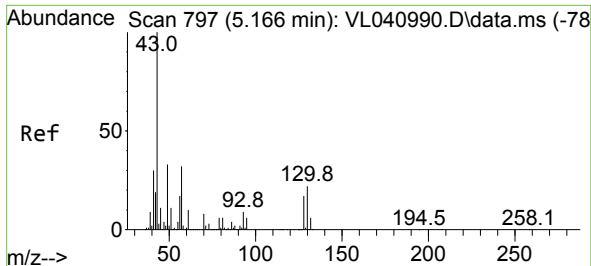


#23
 Vinyl Acetate
 Concen: 0.050 ppbv
 RT: 4.623 min Scan# 628
 Delta R.T. 0.010 min
 Lab File: VL041060.D
 Acq: 9 Feb 2024 16:25



Tgt Ion: 43 Resp: 7204
 Ion Ratio Lower Upper
 43 100
 86 32.4 5.4 8.0#
 42 26.2 8.6 13.0#
 44 3.8 4.3 6.5#

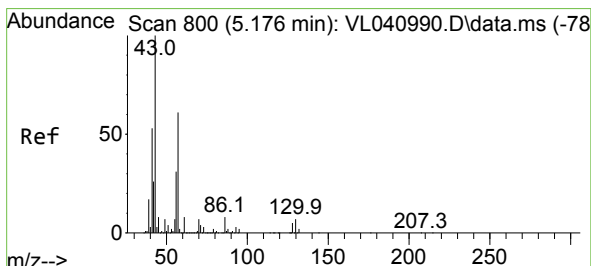
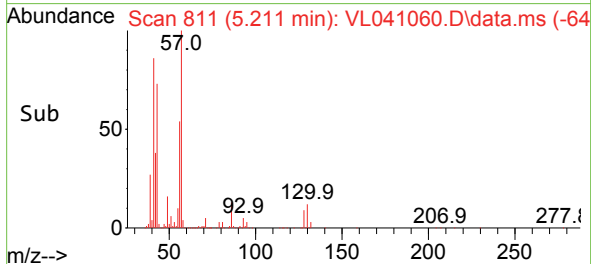
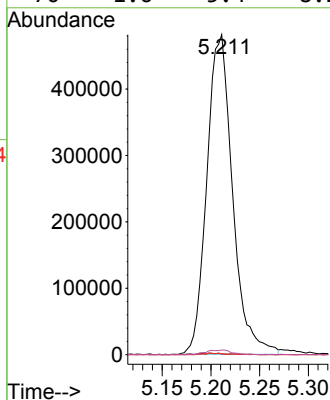
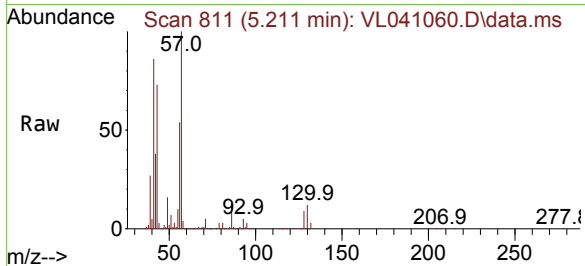




#25
Ethyl Acetate
Concen: 3.524 ppbv
RT: 5.211 min Scan# 810
Delta R.T. 0.019 min
Lab File: VL041060.D
Acq: 9 Feb 2024 16:25

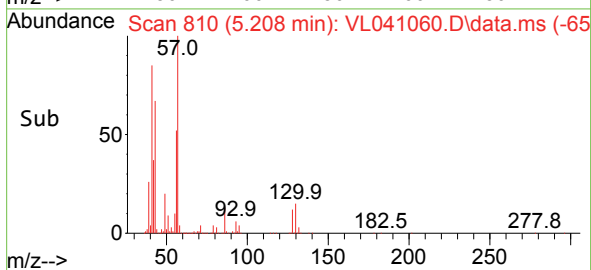
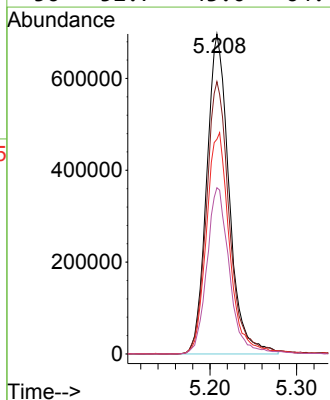
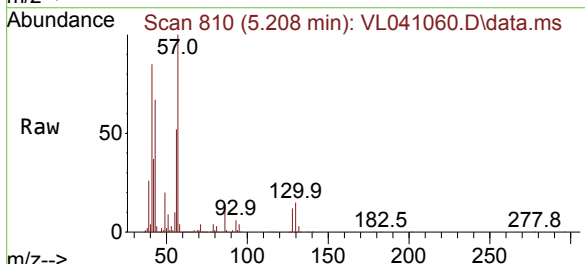
Instrument :
MSVOA_L
ClientSampleId :

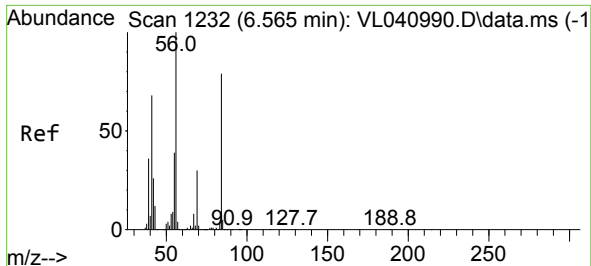
Tgt Ion: 43 Resp: 885640
Ion Ratio Lower Upper
43 100
45 0.6 8.2 12.4#
61 0.4 7.9 11.9#
70 1.6 5.4 8.2#



#26
Hexane
Concen: 11.707 ppbv
RT: 5.208 min Scan# 810
Delta R.T. 0.010 min
Lab File: VL041060.D
Acq: 9 Feb 2024 16:25

Tgt Ion: 57 Resp: 1253920
Ion Ratio Lower Upper
57 100
41 88.3 74.4 111.6
43 72.0 190.6 285.8#
56 52.7 43.0 64.4

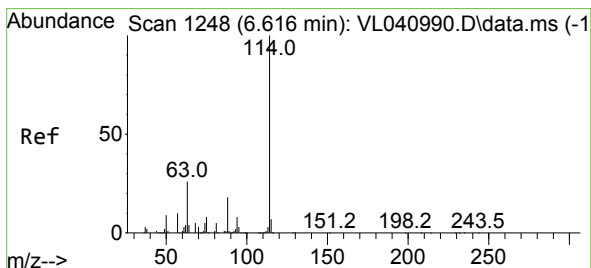
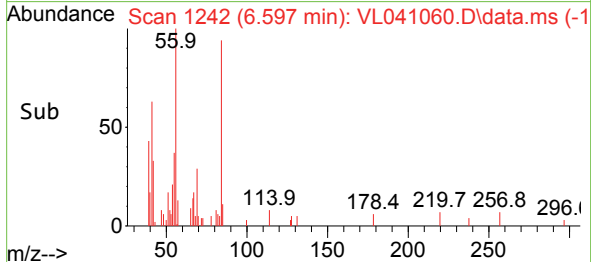
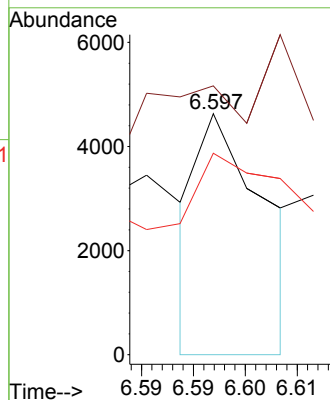
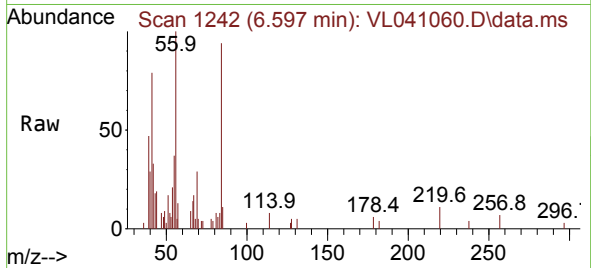




#30
Cyclohexane
Concen: 0.023 ppbv
RT: 6.597 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL041060.D
Acq: 9 Feb 2024 16:25

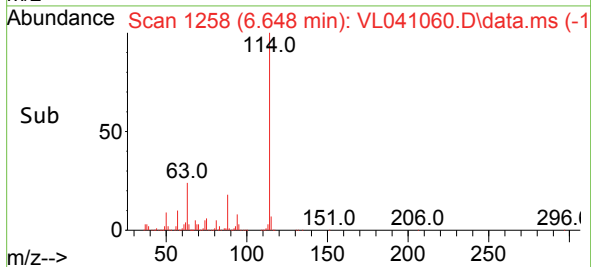
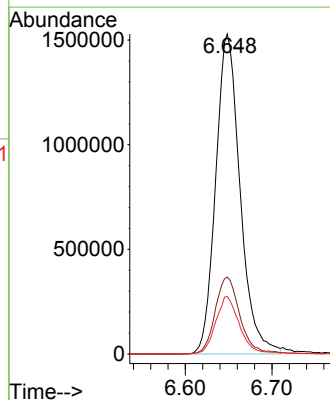
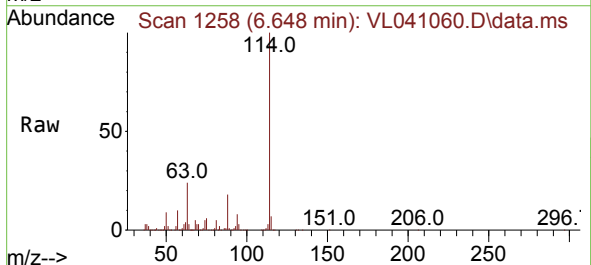
Instrument :
MSVOA_L
ClientSampleId :

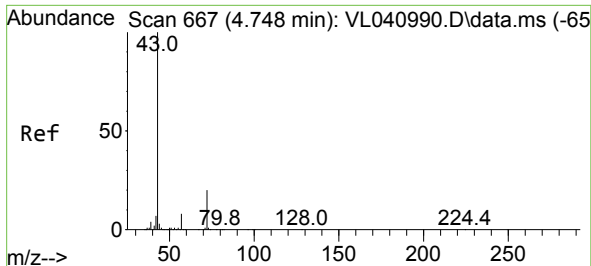
Tgt Ion: 84 Resp: 2054
Ion Ratio Lower Upper
84 100
56 453.9 111.7 167.5#
41 476.2 71.0 106.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.648 min Scan# 1258
Delta R.T. 0.006 min
Lab File: VL041060.D
Acq: 9 Feb 2024 16:25

Tgt Ion:114 Resp: 2992380
Ion Ratio Lower Upper
114 100
63 24.5 20.8 31.2
88 17.7 14.3 21.5

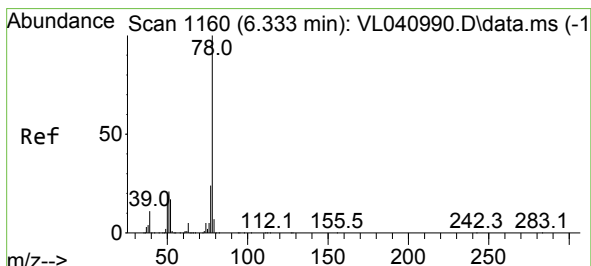
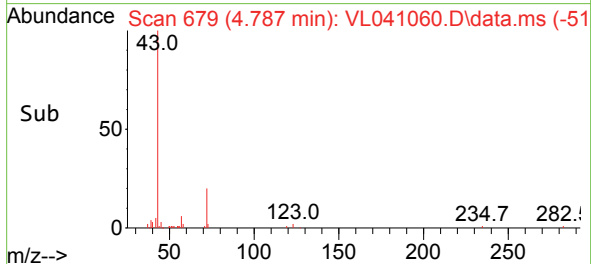
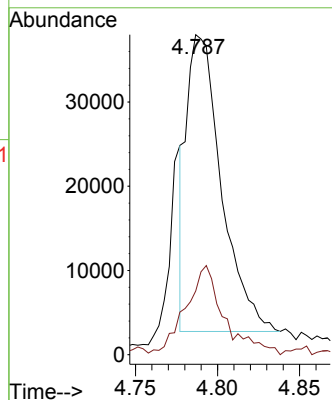
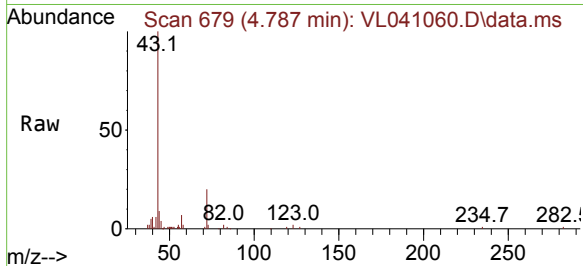




#34
2-Butanone
Concen: 0.364 ppbv
RT: 4.787 min Scan# 61
Delta R.T. 0.016 min
Lab File: VL041060.D
Acq: 9 Feb 2024 16:25

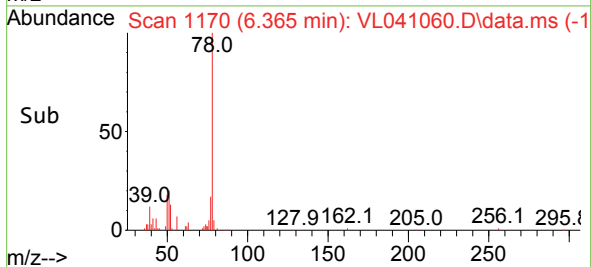
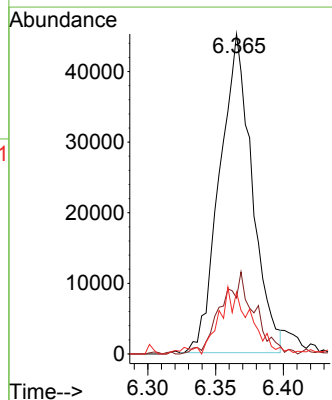
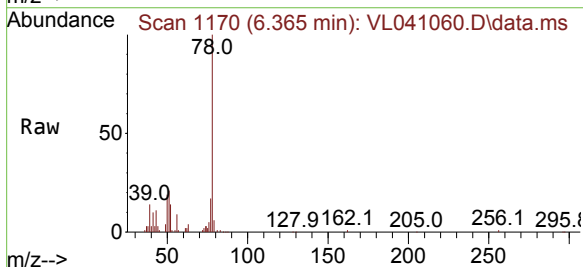
Instrument :
MSVOA_L
ClientSampleId :

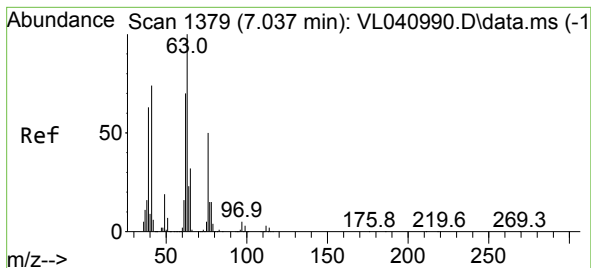
Tgt Ion: 43 Resp: 51857
Ion Ratio Lower Upper
43 100
72 33.7 17.5 26.3#



#36
Benzene
Concen: 0.304 ppbv
RT: 6.365 min Scan# 1170
Delta R.T. 0.006 min
Lab File: VL041060.D
Acq: 9 Feb 2024 16:25

Tgt Ion: 78 Resp: 75005
Ion Ratio Lower Upper
78 100
77 17.6 19.0 28.4#
50 18.5 15.8 23.6





#39

1,2-Dichloropropane

Concen: 7.341 ppbv

RT: 6.648 min Scan# 11

Delta R.T. -0.408 min

Lab File: VL041060.D

Acq: 9 Feb 2024 16:25

Instrument :

MSVOA_L

ClientSampleId :

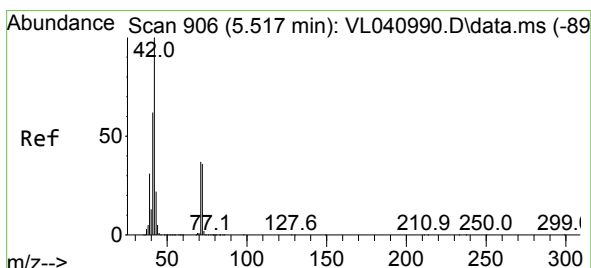
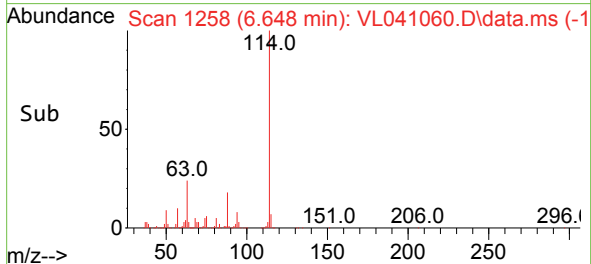
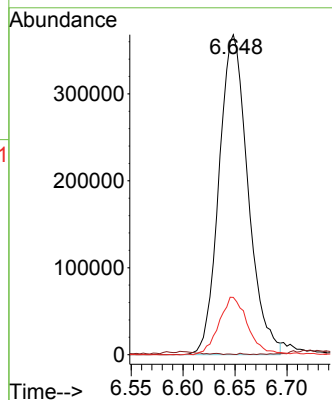
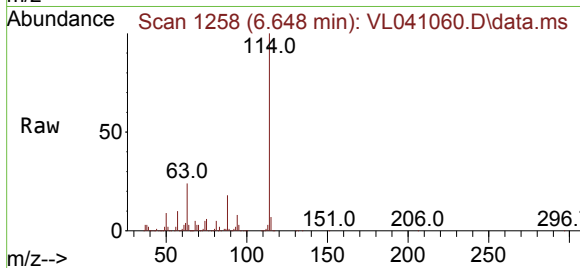
Tgt Ion: 63 Resp: 714709

Ion Ratio Lower Upper

63 100

41 0.0 59.6 89.4#

62 17.9 55.6 83.4#



#41

Tetrahydrofuran

Concen: 4.764 ppbv

RT: 5.208 min Scan# 810

Delta R.T. -0.331 min

Lab File: VL041060.D

Acq: 9 Feb 2024 16:25

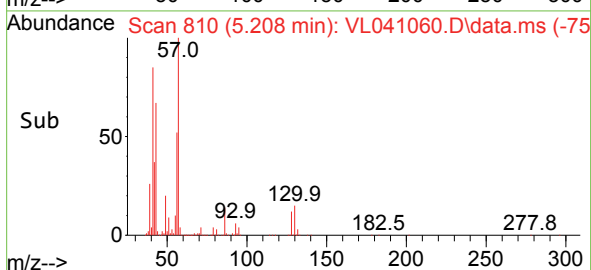
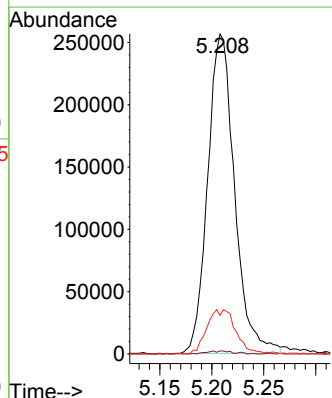
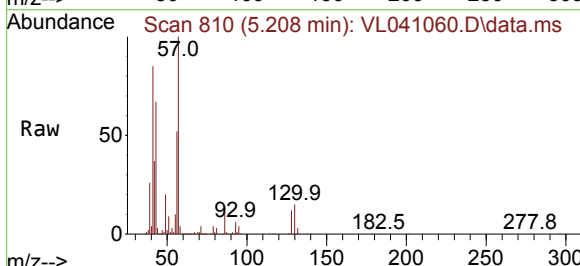
Tgt Ion: 42 Resp: 461143

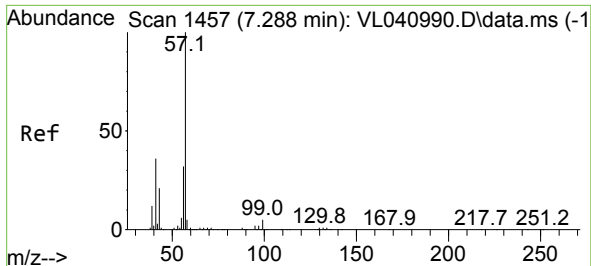
Ion Ratio Lower Upper

42 100

72 1.0 30.0 45.0#

71 15.4 29.5 44.3#

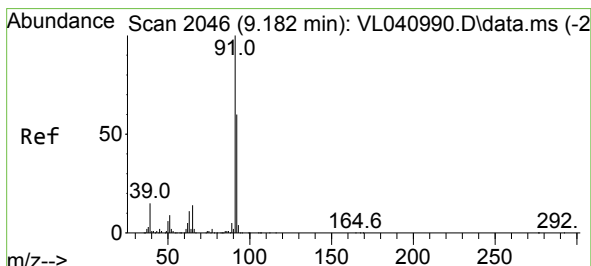
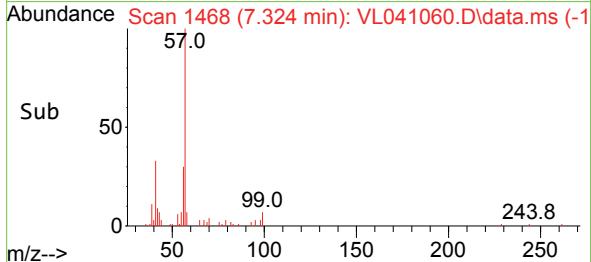
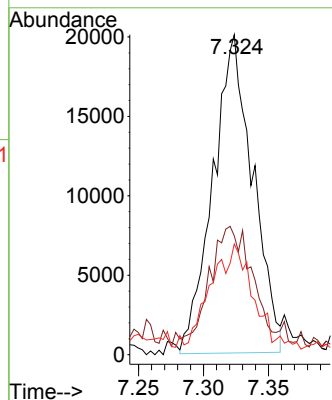
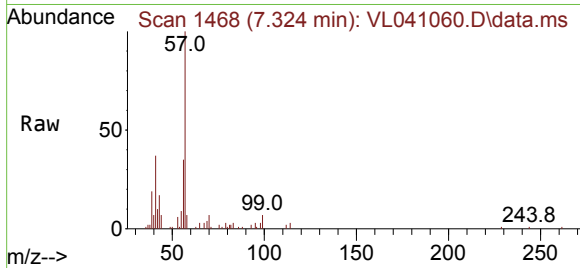




#44
2,2,4-Trimethylpentane
Concen: 0.103 ppbv
RT: 7.324 min Scan# 14
Delta R.T. 0.010 min
Lab File: VL041060.D
Acq: 9 Feb 2024 16:25

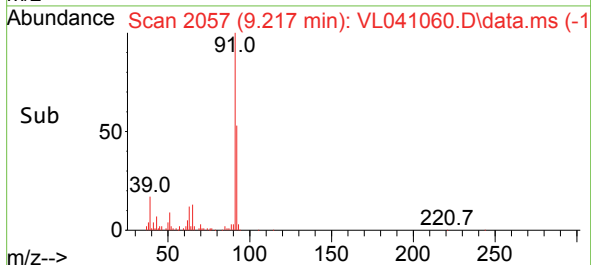
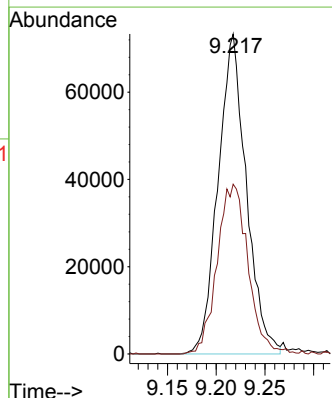
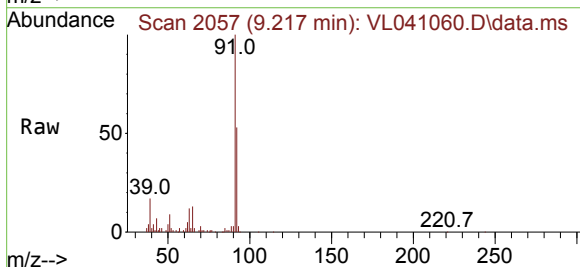
Instrument :
MSVOA_L
ClientSampleId :

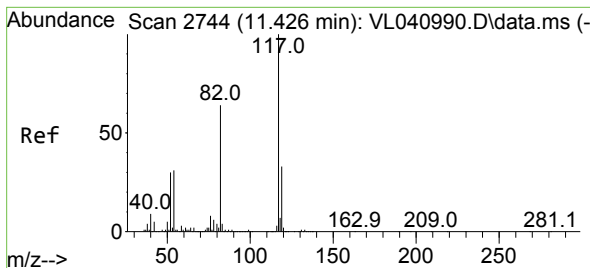
Tgt Ion: 57 Resp: 42904
Ion Ratio Lower Upper
57 100
41 43.3 28.6 43.0#
56 42.6 25.2 37.8#



#53
Toluene
Concen: 0.545 ppbv
RT: 9.217 min Scan# 2057
Delta R.T. 0.010 min
Lab File: VL041060.D
Acq: 9 Feb 2024 16:25

Tgt Ion: 91 Resp: 147449
Ion Ratio Lower Upper
91 100
92 58.2 48.6 72.8

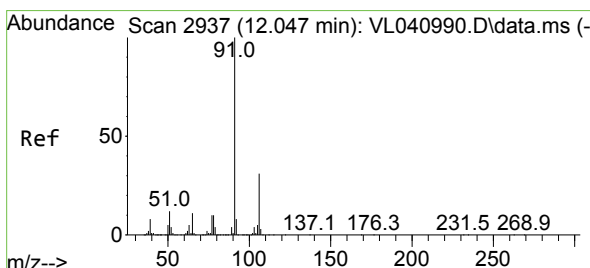
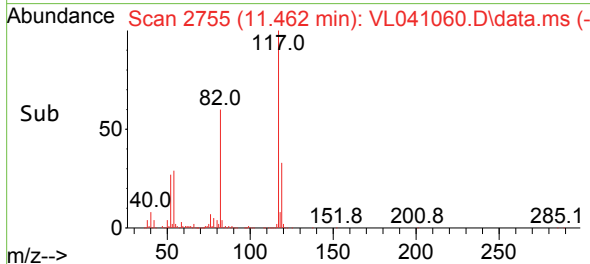
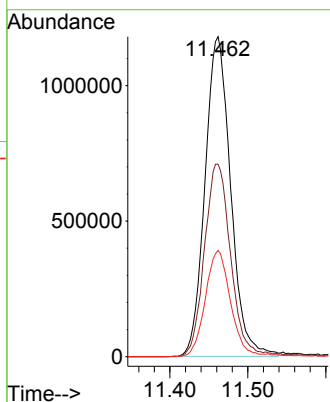
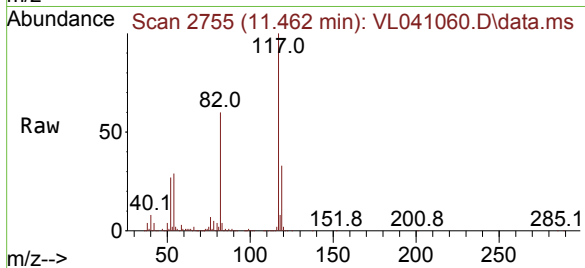




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.462 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL041060.D
Acq: 9 Feb 2024 16:25

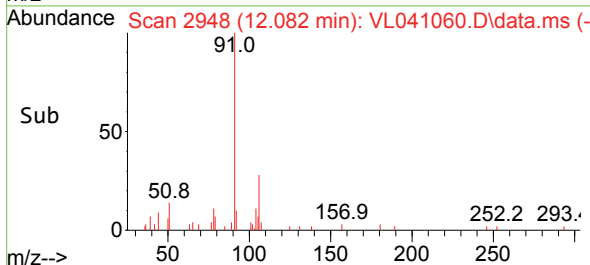
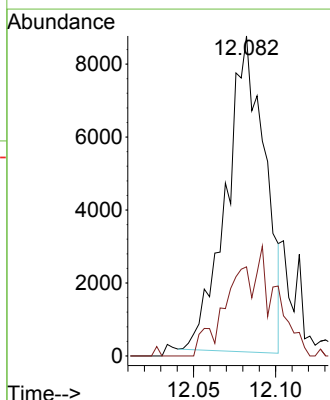
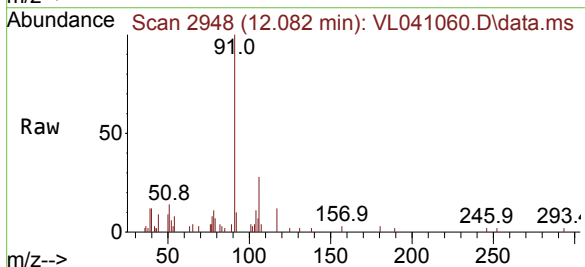
Instrument :
MSVOA_L
ClientSampleId :

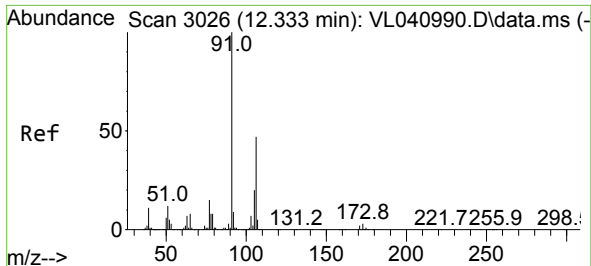
Tgt Ion:117 Resp: 2705955
Ion Ratio Lower Upper
117 100
82 62.8 51.7 77.5
119 33.3 23.8 35.6



#58
Ethyl Benzene
Concen: 0.039 ppbv
RT: 12.082 min Scan# 2948
Delta R.T. 0.006 min
Lab File: VL041060.D
Acq: 9 Feb 2024 16:25

Tgt Ion: 91 Resp: 14125
Ion Ratio Lower Upper
91 100
106 28.5 24.8 37.2





#59

m/p-Xylene

Concen: 0.046 ppbv

RT: 12.365 min Scan# 3026

Delta R.T. 0.010 min

Lab File: VL041060.D

Acq: 9 Feb 2024 16:25

Instrument :

MSVOA_L

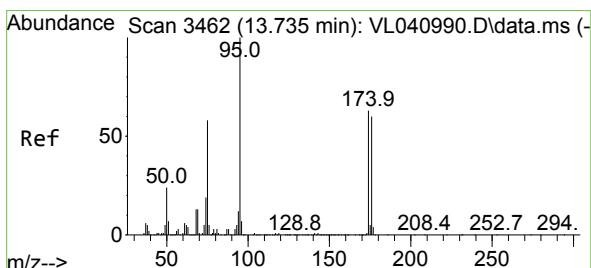
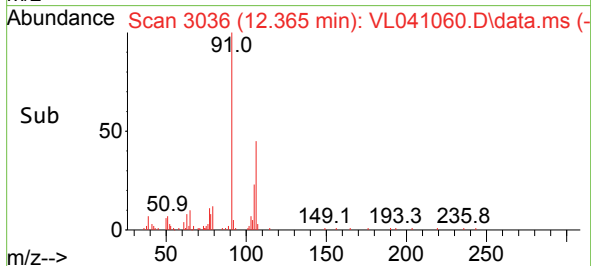
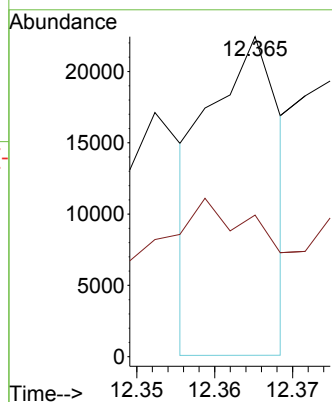
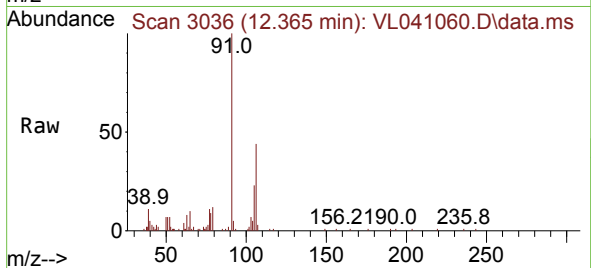
ClientSampleId :

Tgt Ion: 91 Resp: 14428

Ion Ratio Lower Upper

91 100

106 237.6 34.9 52.3#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.839 ppbv

RT: 13.770 min Scan# 3473

Delta R.T. 0.010 min

Lab File: VL041060.D

Acq: 9 Feb 2024 16:25

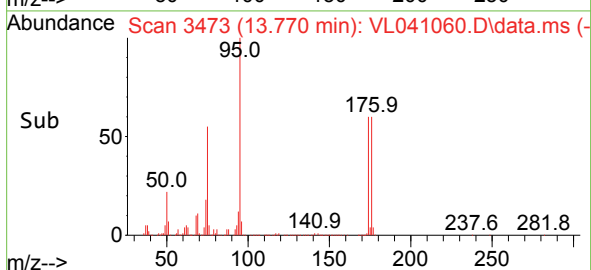
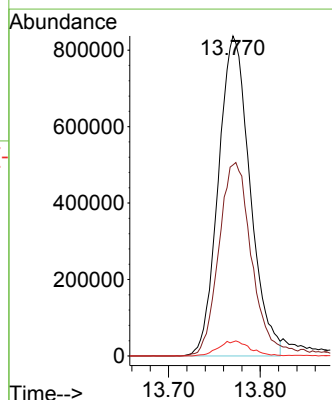
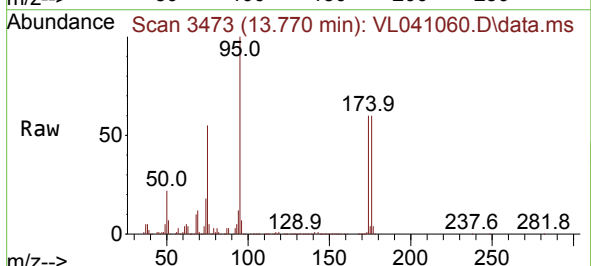
Tgt Ion: 95 Resp: 2010862

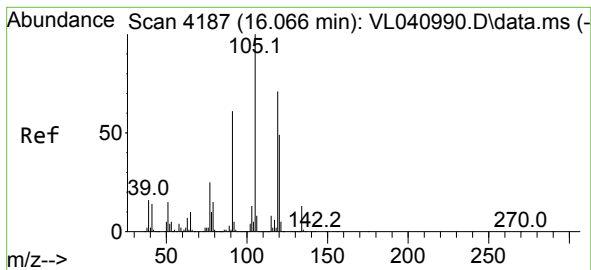
Ion Ratio Lower Upper

95 100

174 65.6 49.1 73.7

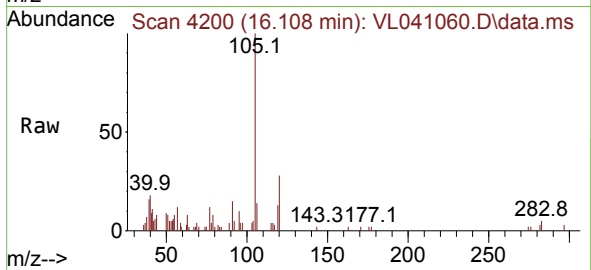
175 4.9 3.7 5.5





#74
 1,2,4-Trimethylbenzene
 Concen: 0.028 ppbv
 RT: 16.108 min Scan# 4187
 Delta R.T. 0.013 min
 Lab File: VL041060.D
 Acq: 9 Feb 2024 16:25

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion:	105	Resp:	9540
Ion	Ratio	Lower	Upper
105	100		
120	23.3	39.3	58.9#
91	6.9	48.7	73.1#
77	3.2	19.8	29.8#

