

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021524\
 Data File : VL041071.D
 Acq On : 15 Feb 2024 14:52
 Operator : SY/MD
 Sample : P1490-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Quant Time: Feb 16 04:09:02 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL012324AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Feb 16 04:05:22 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.182	49	1239991	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.642	114	3026467	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.458	117	2619266	10.000	ppbv	0.00

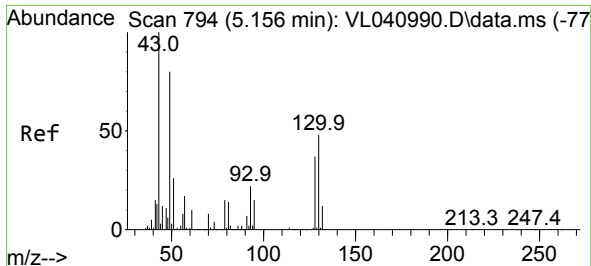
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	2047758	10.351	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.500%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.716	85	69287	0.253	ppbv	97
3) Chlorodifluoromethane	2.639	51	11426977	54.791	ppbv #	59
4) Chloromethane	2.800	50	47182	0.604	ppbv	98
9) Propene	2.857	41	7102438	103.821	ppbv	94
11) Trichlorofluoromethane	3.549	101	40995	0.186	ppbv	92
12) 1,1,2-Trichlorotrifluo...	4.054	101	4133	0.026	ppbv #	1
13) Ethanol	3.275	45	39997195	2453.232	ppbv	81
15) Acetone	3.455	43	1772072	11.175	ppbv	100
16) 1,3-Butadiene	2.999	39	1580529	20.836	ppbv #	12
17) tert-Butyl alcohol	3.915	59	187319	1.440	ppbv #	90
19) Isopropyl Alcohol	3.613	45	26465865	288.332	ppbv #	95
20) Methylene Chloride	3.922	84	943859	15.469	ppbv	98
21) Allyl Chloride	3.918	41	56980	0.591	ppbv #	17
25) Ethyl Acetate	5.201	43	585130	2.035	ppbv #	85
26) Hexane	5.201	57	618448	5.046	ppbv #	47
29) Chloroform	5.263	83	12689	0.058	ppbv	85
34) 2-Butanone	4.777	43	50241	0.348	ppbv	95
35) Carbon Tetrachloride	6.481	117	6401	0.032	ppbv #	83
36) Benzene	6.365	78	46794	0.187	ppbv #	83
39) 1,2-Dichloropropane	6.642	63	763374	7.753	ppbv #	24
41) Tetrahydrofuran	5.250	42	2725	0.028	ppbv #	44
52) Tetrachloroethene	10.597	164	9542	0.115	ppbv	85
53) Toluene	9.204	91	17303	0.063	ppbv #	20
59) m/p-Xylene	12.368	91	11279	0.037	ppbv #	32

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

Quant Time: Feb 16 04:09:02 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 : Fri Feb 16 04:05:22 2024
Response via : Initial Calibration

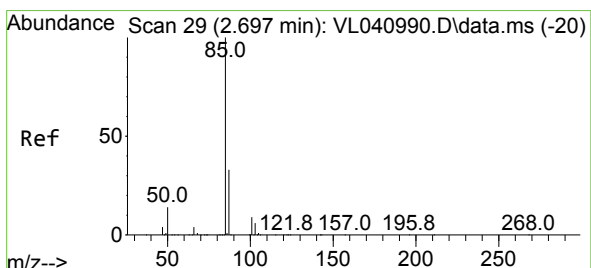
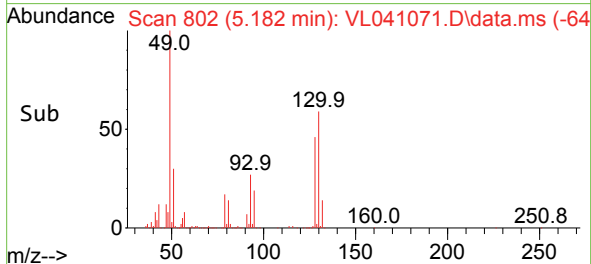
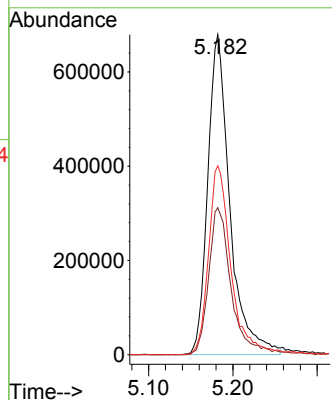
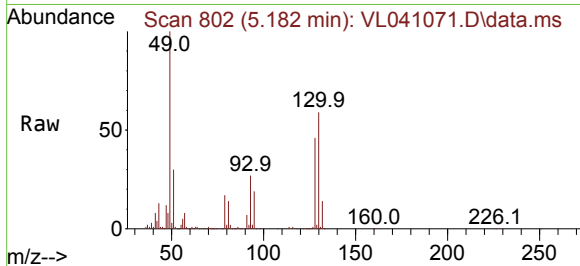




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.182 min Scan# 80
 Delta R.T. 0.006 min
 Lab File: VL041071.D
 Acq: 15 Feb 2024 14:52

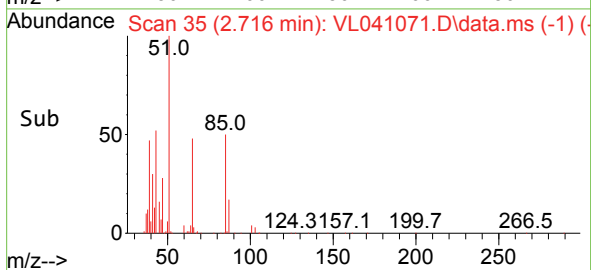
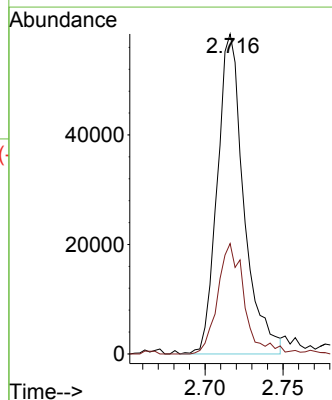
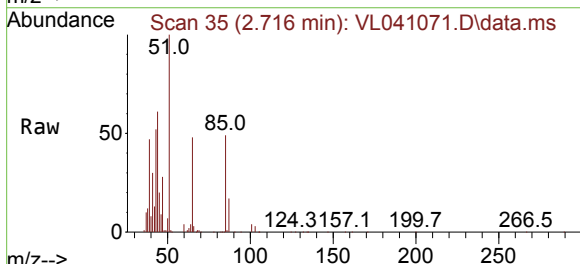
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

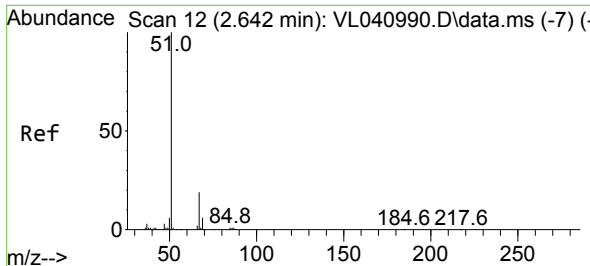
Tgt Ion: 49 Resp: 1239991
 Ion Ratio Lower Upper
 49 100
 128 47.6 23.9 71.7
 130 60.5 31.1 93.5



#2
 Dichlorodifluoromethane
 Concen: 0.253 ppbv
 RT: 2.716 min Scan# 35
 Delta R.T. 0.010 min
 Lab File: VL041071.D
 Acq: 15 Feb 2024 14:52

Tgt Ion: 85 Resp: 69287
 Ion Ratio Lower Upper
 85 100
 87 34.5 26.3 39.5

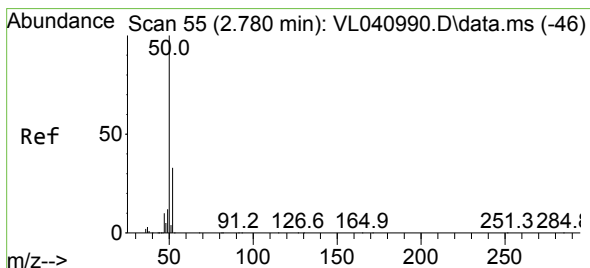
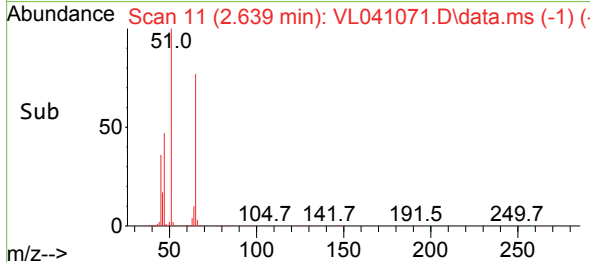
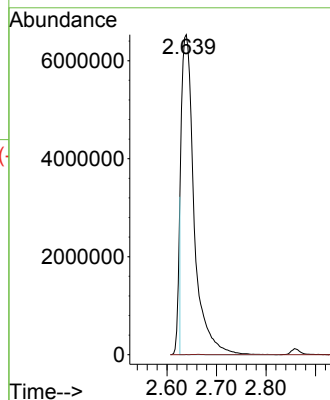
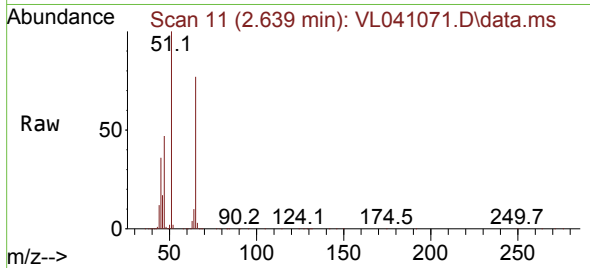




#3
Chlorodifluoromethane
Concen: 54.791 ppbv
RT: 2.639 min Scan# 11
Delta R.T. -0.013 min
Lab File: VL041071.D
Acq: 15 Feb 2024 14:52

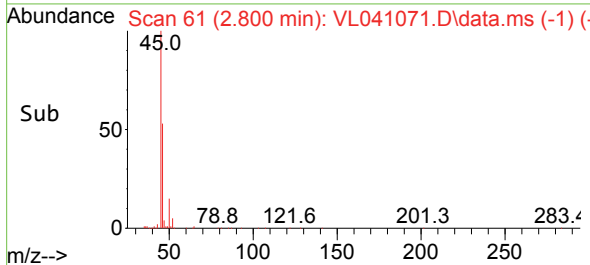
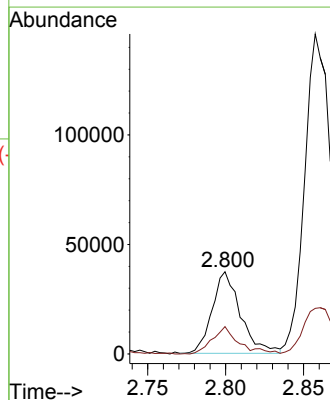
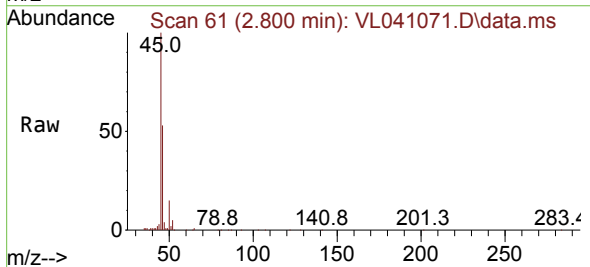
Instrument :
MSVOA_L
ClientSampleId :
IA2

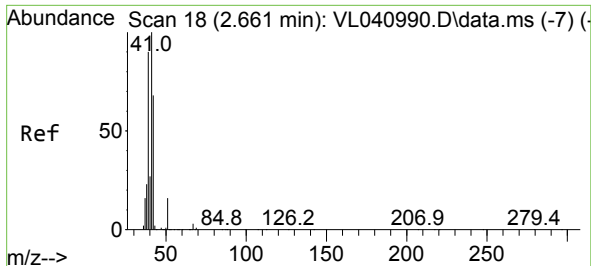
Tgt Ion: 51 Resp:11426977
Ion Ratio Lower Upper
51 100
67 0.1 14.8 22.2#



#4
Chloromethane
Concen: 0.604 ppbv
RT: 2.800 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL041071.D
Acq: 15 Feb 2024 14:52

Tgt Ion: 50 Resp: 47182
Ion Ratio Lower Upper
50 100
52 34.0 26.2 39.4

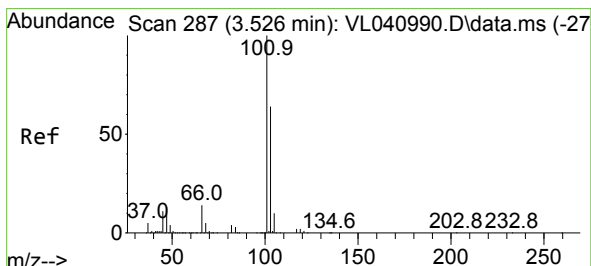
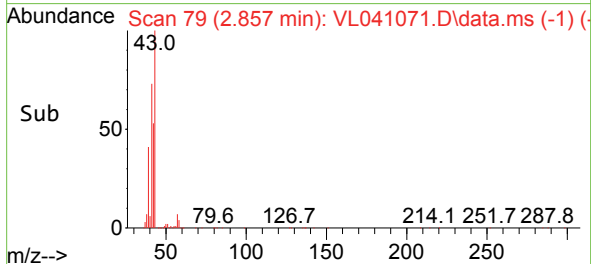
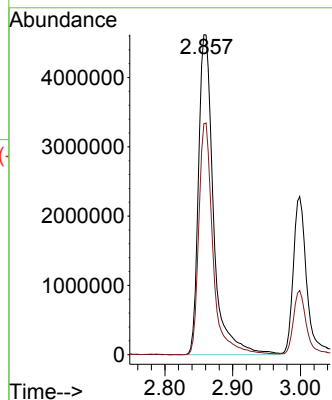
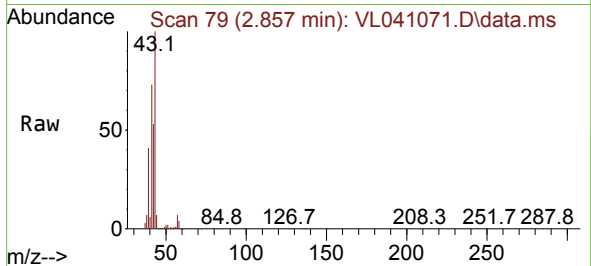




#9
 Propene
 Concen: 103.821 ppbv
 RT: 2.857 min Scan# 79
 Delta R.T. 0.186 min
 Lab File: VL041071.D
 Acq: 15 Feb 2024 14:52

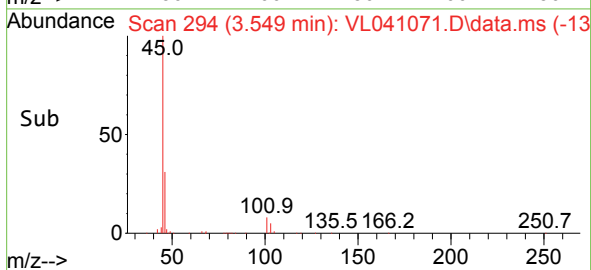
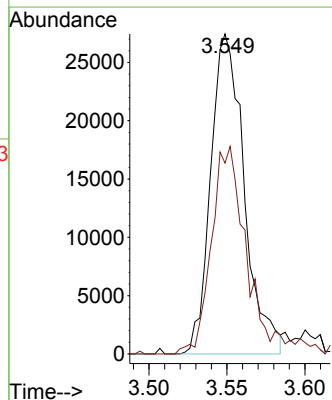
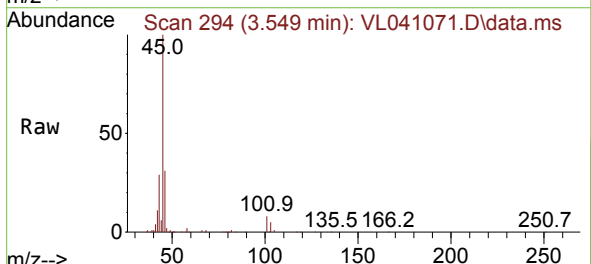
Instrument :
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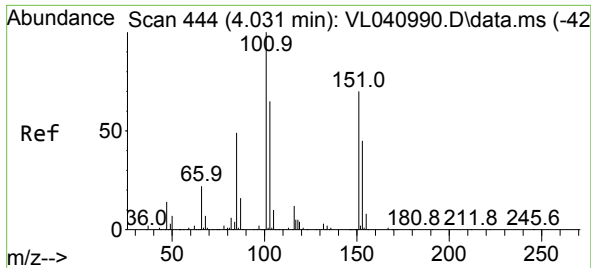
Tgt Ion: 41 Resp: 7102438
 Ion Ratio Lower Upper
 41 100
 42 68.3 59.0 88.4



#11
 Trichlorofluoromethane
 Concen: 0.186 ppbv
 RT: 3.549 min Scan# 294
 Delta R.T. 0.006 min
 Lab File: VL041071.D
 Acq: 15 Feb 2024 14:52

Tgt Ion:101 Resp: 40995
 Ion Ratio Lower Upper
 101 100
 103 58.1 51.4 77.2

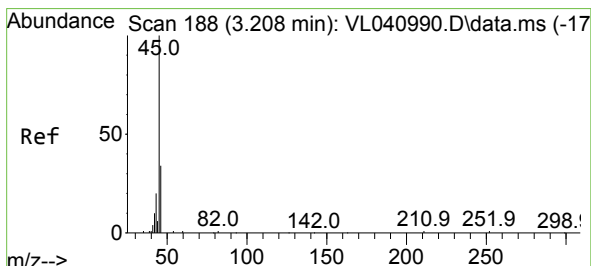
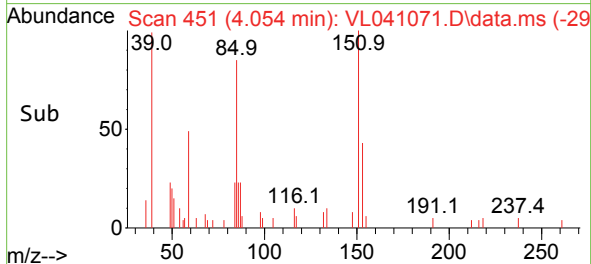
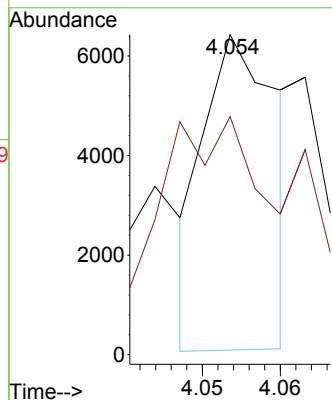
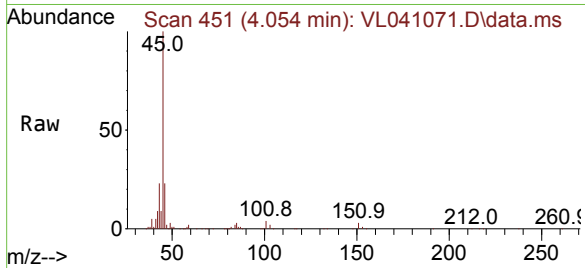




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.026 ppbv
 RT: 4.054 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL041071.D
 Acq: 15 Feb 2024 14:52

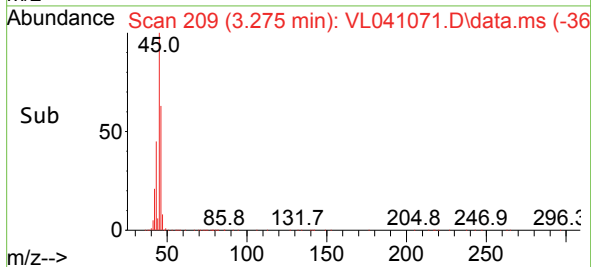
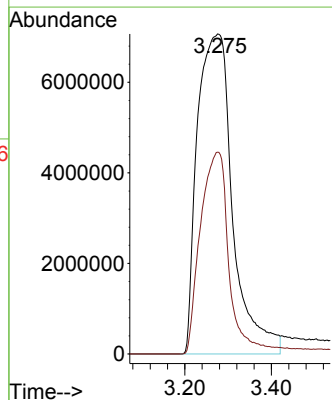
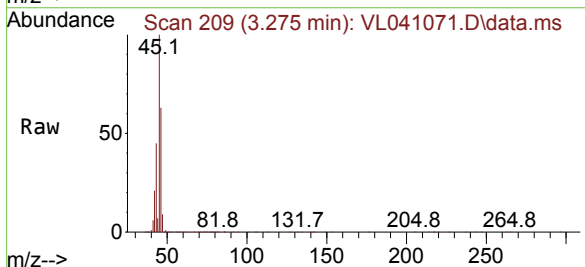
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

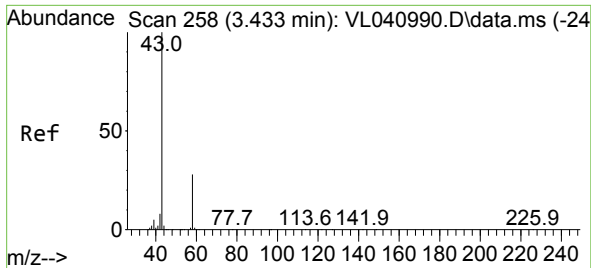
Tgt Ion:101 Resp: 4133
 Ion Ratio Lower Upper
 101 100
 151 178.7 56.6 85.0#



#13
 Ethanol
 Concen: 2453.232 ppbv
 RT: 3.275 min Scan# 209
 Delta R.T. 0.058 min
 Lab File: VL041071.D
 Acq: 15 Feb 2024 14:52

Tgt Ion: 45 Resp:39997195
 Ion Ratio Lower Upper
 45 100
 46 52.3 16.2 64.8

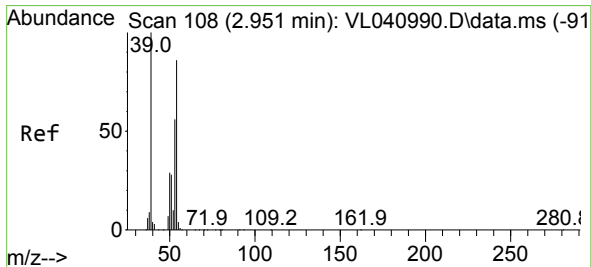
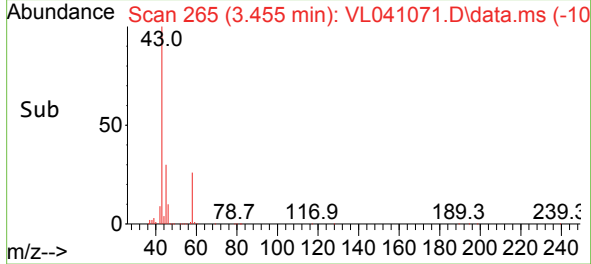
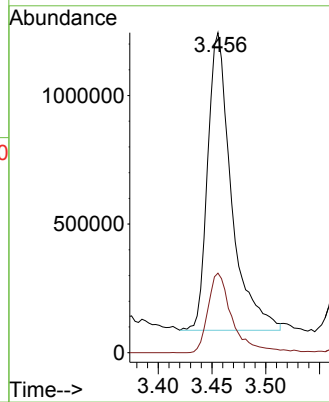
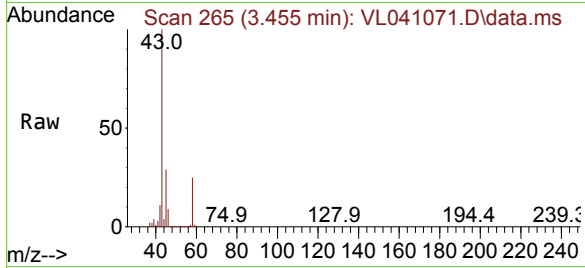




#15
Acetone
Concen: 11.175 ppbv
RT: 3.455 min Scan# 20
Delta R.T. 0.010 min
Lab File: VL041071.D
Acq: 15 Feb 2024 14:52

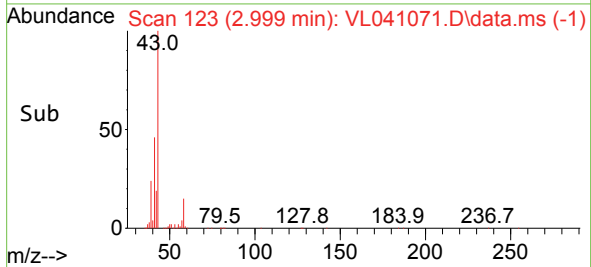
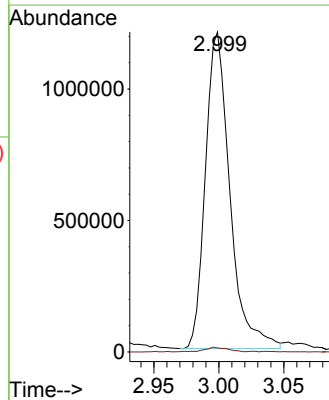
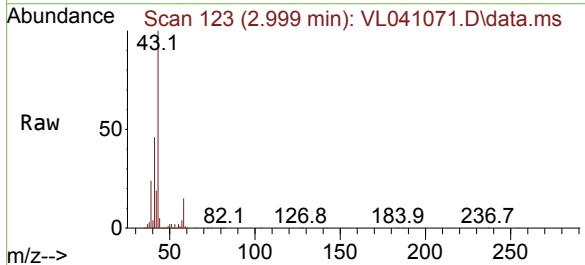
Instrument :
MSVOA_L
ClientSampleId :
IA2

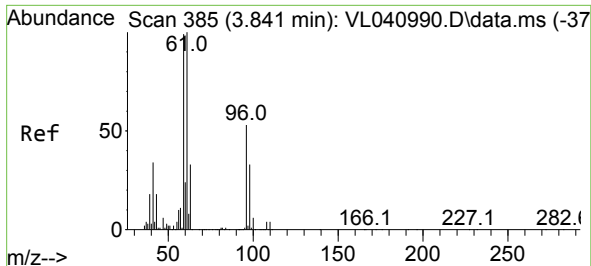
Tgt Ion: 43 Resp: 1772072
Ion Ratio Lower Upper
43 100
58 27.8 22.2 33.2



#16
1,3-Butadiene
Concen: 20.836 ppbv
RT: 2.999 min Scan# 123
Delta R.T. 0.035 min
Lab File: VL041071.D
Acq: 15 Feb 2024 14:52

Tgt Ion: 39 Resp: 1580529
Ion Ratio Lower Upper
39 100
54 1.7 62.7 94.1#





#17

tert-Butyl alcohol

Concen: 1.440 ppbv

RT: 3.915 min Scan# 408

Delta R.T. 0.058 min

Lab File: VL041071.D

Acq: 15 Feb 2024 14:52

Instrument :

MSVOA_L

ClientSampleId :

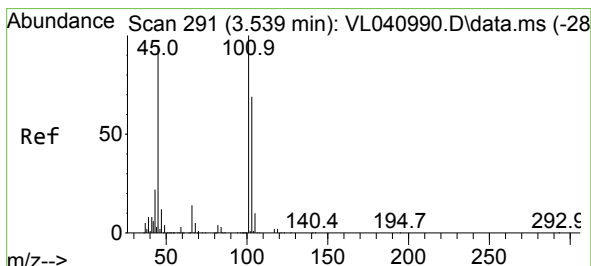
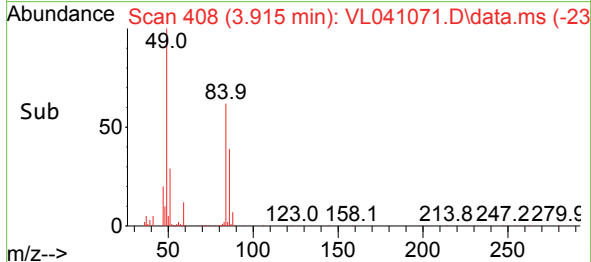
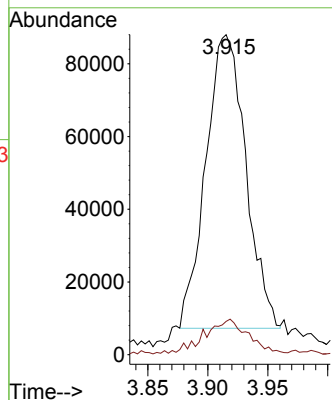
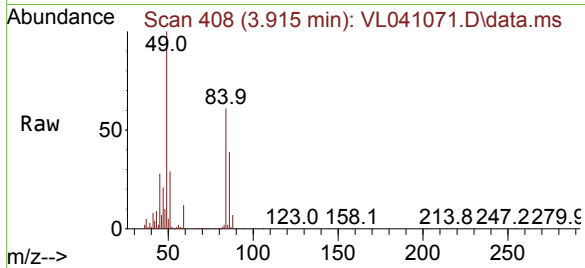
IA2

Tgt Ion: 59 Resp: 187319

Ion Ratio Lower Upper

59 100

57 14.7 8.7 13.1#



#19

Isopropyl Alcohol

Concen: 288.332 ppbv

RT: 3.613 min Scan# 314

Delta R.T. 0.058 min

Lab File: VL041071.D

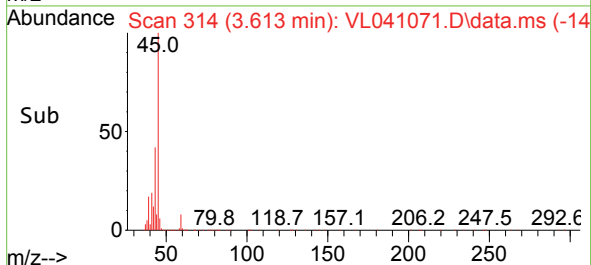
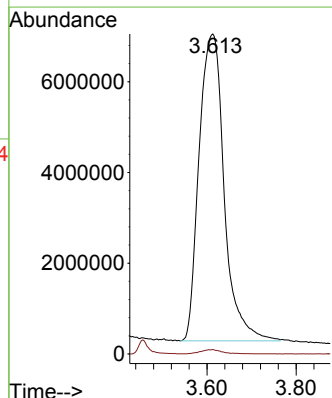
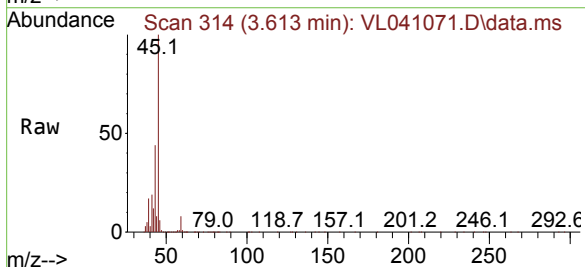
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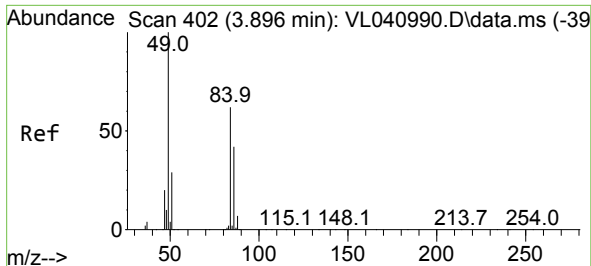
Tgt Ion: 45 Resp: 26465865

Ion Ratio Lower Upper

45 100

58 1.3 2.2 3.4#

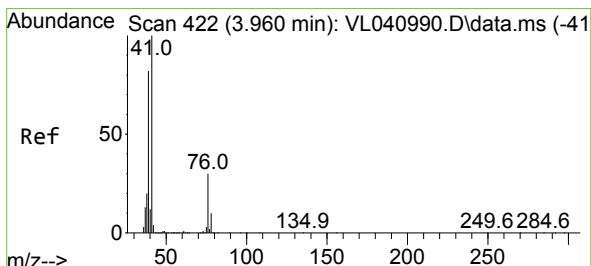
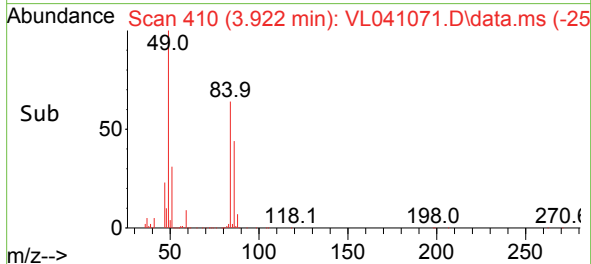
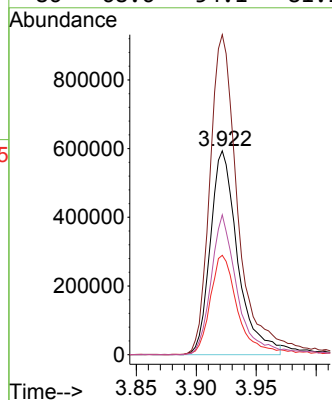
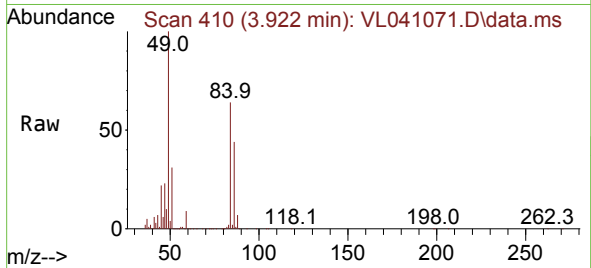




#20
Methylene Chloride
Concen: 15.469 ppbv
RT: 3.922 min Scan# 410
Delta R.T. 0.010 min
Lab File: VL041071.D
Acq: 15 Feb 2024 14:52

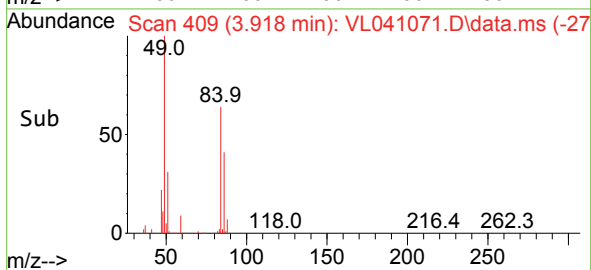
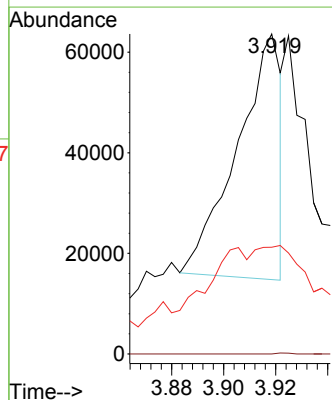
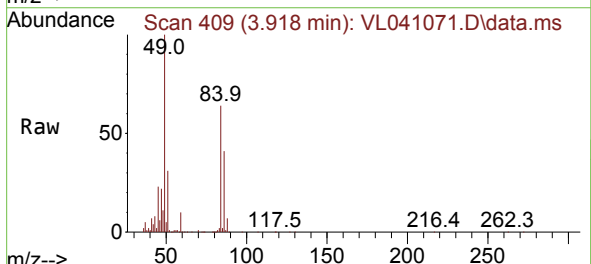
Instrument :
MSVOA_L
ClientSampleId :
IA2

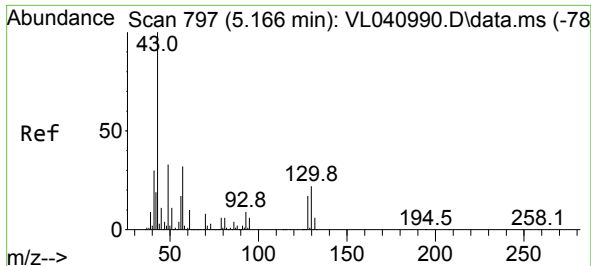
Tgt Ion: 84 Resp: 943859
Ion Ratio Lower Upper
84 100
49 156.9 128.1 192.1
51 48.6 36.5 54.7
86 68.6 54.1 81.1



#21
Allyl Chloride
Concen: 0.591 ppbv
RT: 3.918 min Scan# 409
Delta R.T. -0.058 min
Lab File: VL041071.D
Acq: 15 Feb 2024 14:52

Tgt Ion: 41 Resp: 56980
Ion Ratio Lower Upper
41 100
76 0.1 25.0 37.4#
39 0.0 67.0 100.6#

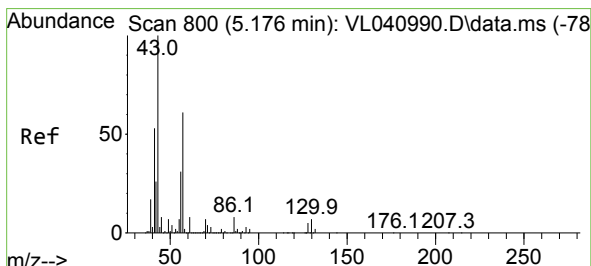
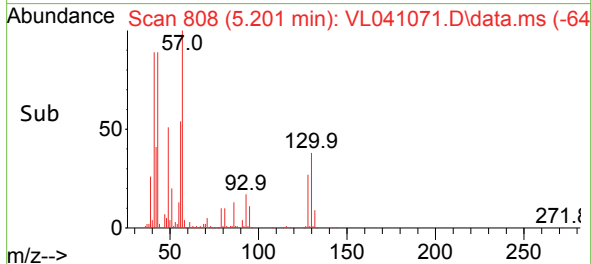
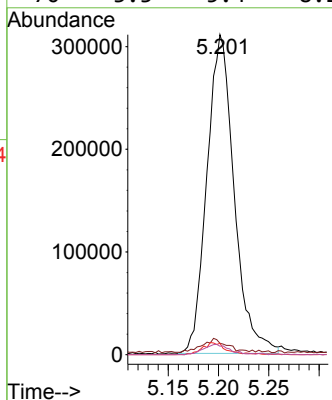
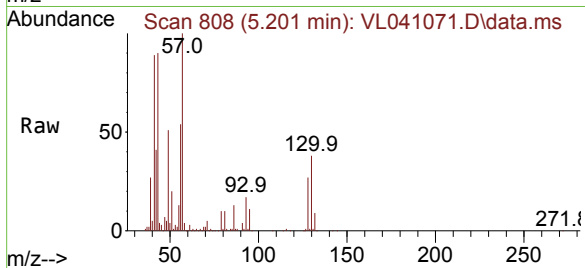




#25
Ethyl Acetate
Concen: 2.035 ppbv
RT: 5.201 min Scan# 808
Delta R.T. 0.016 min
Lab File: VL041071.D
Acq: 15 Feb 2024 14:52

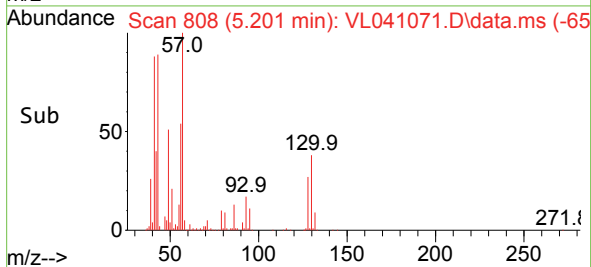
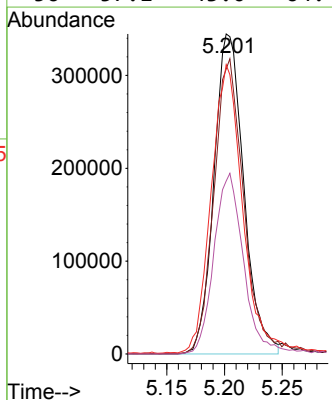
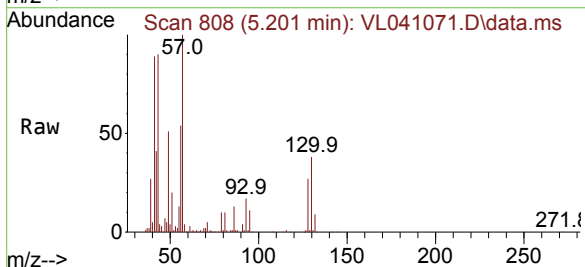
Instrument :
MSVOA_L
ClientSampleId :
IA2

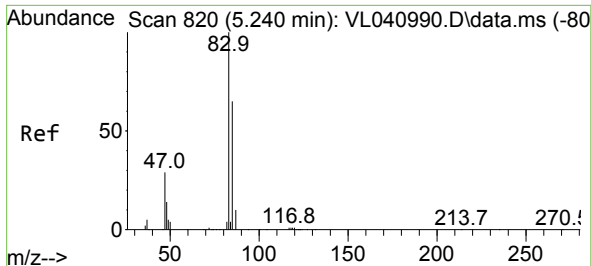
Tgt Ion: 43 Resp: 585130
Ion Ratio Lower Upper
43 100
45 4.3 8.2 12.4#
61 3.4 7.9 11.9#
70 3.3 5.4 8.2#



#26
Hexane
Concen: 5.046 ppbv
RT: 5.201 min Scan# 808
Delta R.T. 0.006 min
Lab File: VL041071.D
Acq: 15 Feb 2024 14:52

Tgt Ion: 57 Resp: 618448
Ion Ratio Lower Upper
57 100
41 94.0 74.4 111.6
43 96.8 190.6 285.8#
56 57.1 43.0 64.4





#29

Chloroform

Concen: 0.058 ppbv

RT: 5.263 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL041071.D

Acq: 15 Feb 2024 14:52

Instrument :

MSVOA_L

ClientSampleId :

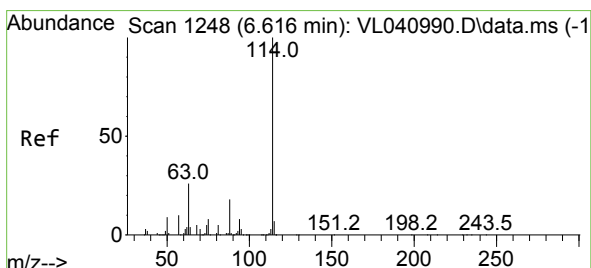
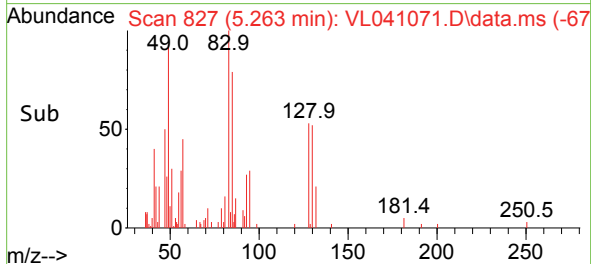
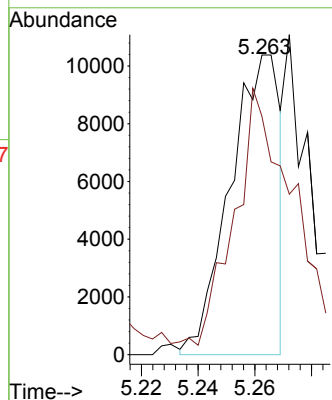
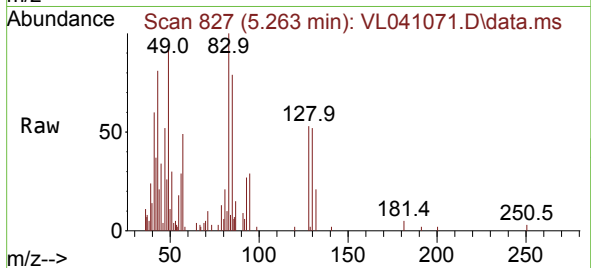
IA2

Tgt Ion: 83 Resp: 12689

Ion Ratio Lower Upper

83 100

85 76.6 51.6 77.4



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.642 min Scan# 1256

Delta R.T. 0.003 min

Lab File: VL041071.D

Acq: 15 Feb 2024 14:52

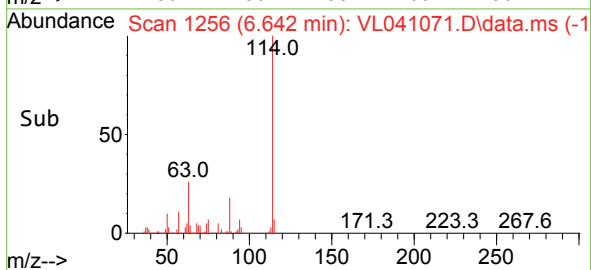
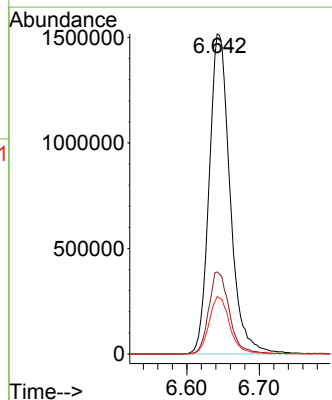
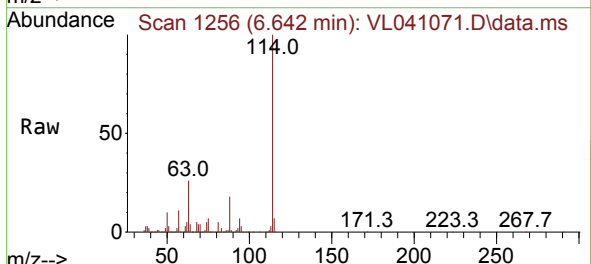
Tgt Ion:114 Resp: 3026467

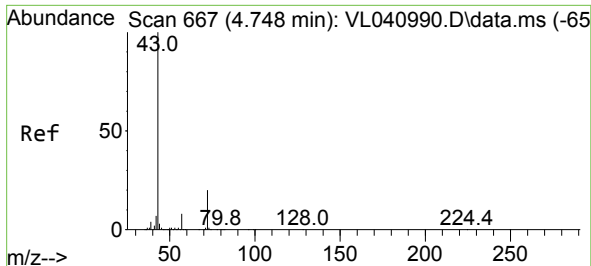
Ion Ratio Lower Upper

114 100

63 25.5 20.8 31.2

88 17.9 14.3 21.5

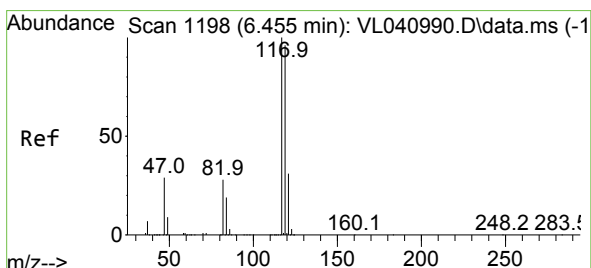
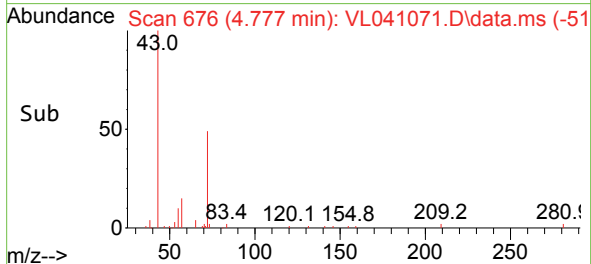
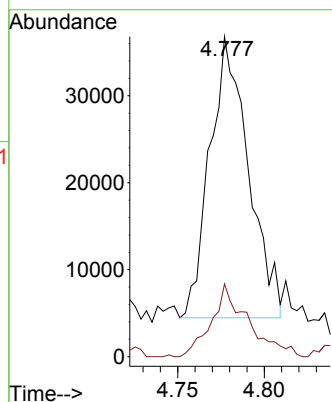
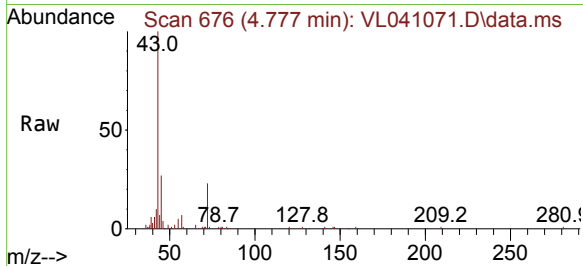




#34
2-Butanone
Concen: 0.348 ppbv
RT: 4.777 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL041071.D
Acq: 15 Feb 2024 14:52

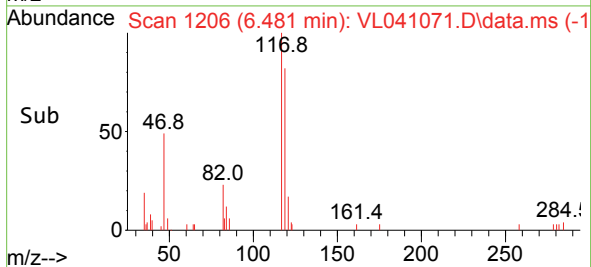
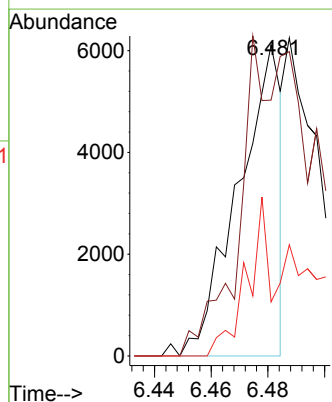
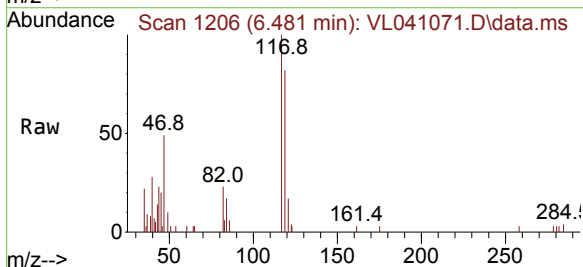
Instrument :
MSVOA_L
ClientSampleId :
IA2

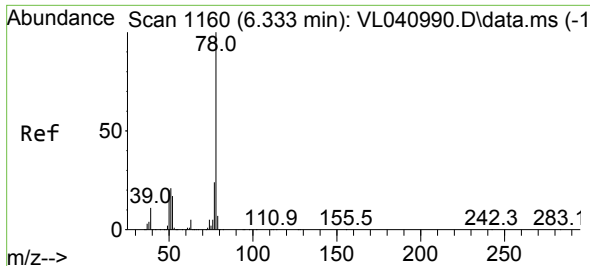
Tgt Ion: 43 Resp: 50241
Ion Ratio Lower Upper
43 100
72 24.4 17.5 26.3



#35
Carbon Tetrachloride
Concen: 0.032 ppbv
RT: 6.481 min Scan# 1206
Delta R.T. 0.003 min
Lab File: VL041071.D
Acq: 15 Feb 2024 14:52

Tgt Ion: 117 Resp: 6401
Ion Ratio Lower Upper
117 100
119 82.3 76.9 115.3
121 17.4 24.7 37.1#

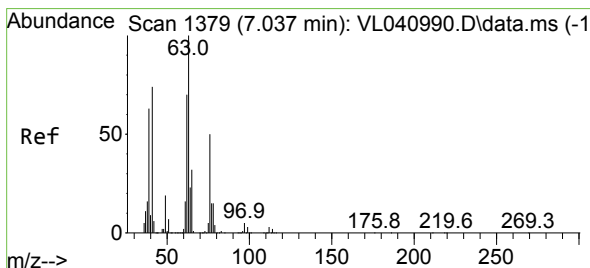
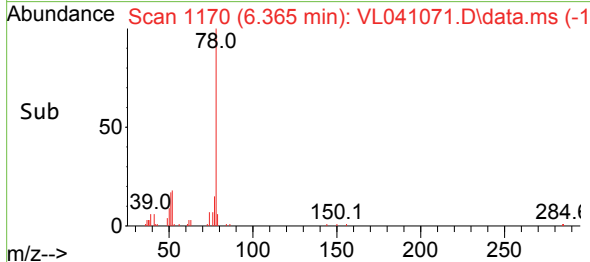
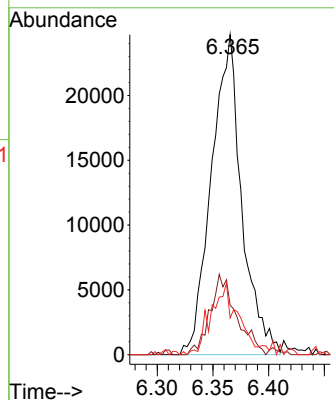
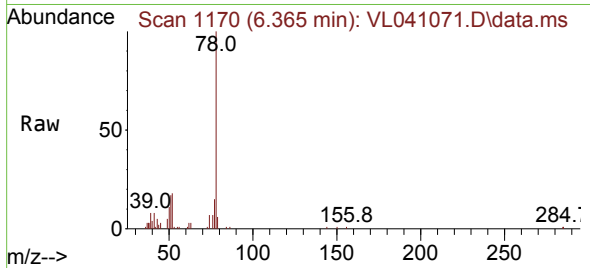




#36
Benzene
Concen: 0.187 ppbv
RT: 6.365 min Scan# 1160
Delta R.T. 0.010 min
Lab File: VL041071.D
Acq: 15 Feb 2024 14:52

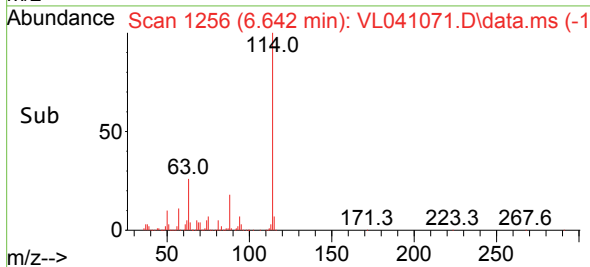
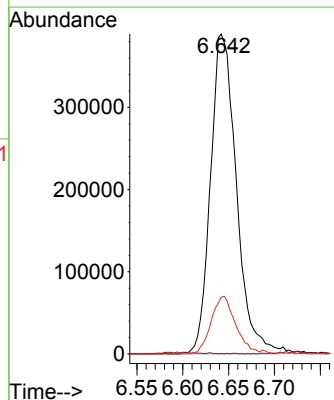
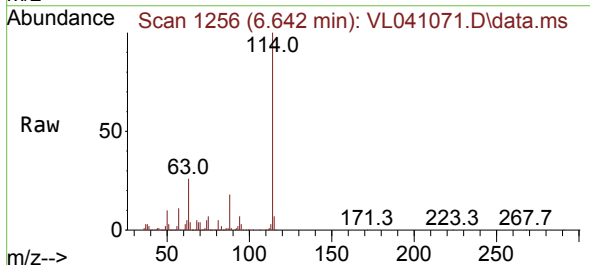
Instrument :
MSVOA_L
ClientSampleId :
IA2

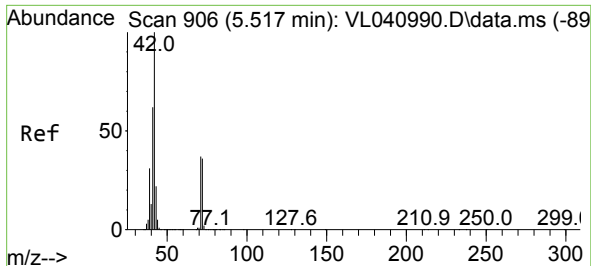
Tgt Ion: 78 Resp: 46794
Ion Ratio Lower Upper
78 100
77 15.5 19.0 28.4#
50 11.5 15.8 23.6#



#39
1,2-Dichloropropane
Concen: 7.753 ppbv
RT: 6.642 min Scan# 1256
Delta R.T. -0.415 min
Lab File: VL041071.D
Acq: 15 Feb 2024 14:52

Tgt Ion: 63 Resp: 763374
Ion Ratio Lower Upper
63 100
41 0.0 59.6 89.4#
62 17.7 55.6 83.4#





#41

Tetrahydrofuran

Concen: 0.028 ppbv

RT: 5.250 min Scan# 81

Delta R.T. -0.289 min

Lab File: VL041071.D

Acq: 15 Feb 2024 14:52

Instrument :

MSVOA_L

ClientSampleId :

IA2

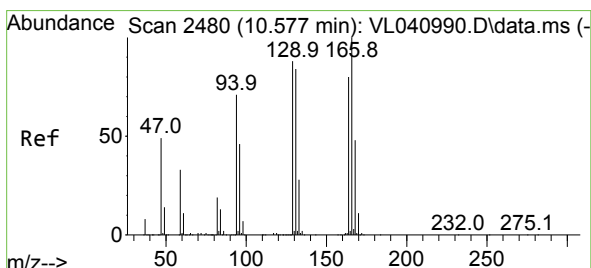
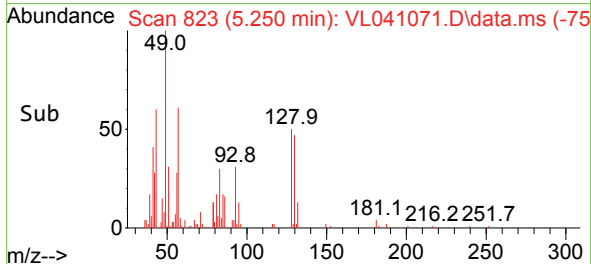
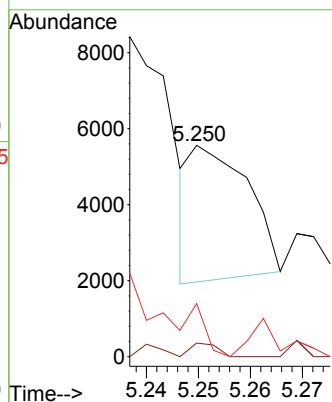
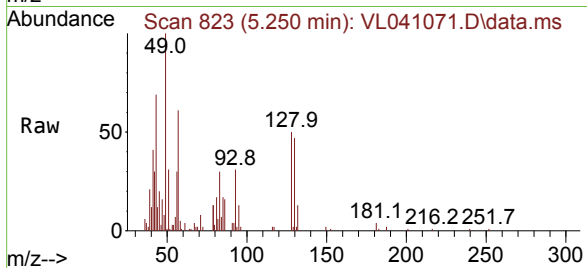
Tgt Ion: 42 Resp: 2725

Ion Ratio Lower Upper

42 100

72 7.7 30.0 45.0#

71 0.0 29.5 44.3#



#52

Tetrachloroethene

Concen: 0.115 ppbv

RT: 10.597 min Scan# 2486

Delta R.T. -0.003 min

Lab File: VL041071.D

Acq: 15 Feb 2024 14:52

Tgt Ion: 164 Resp: 9542

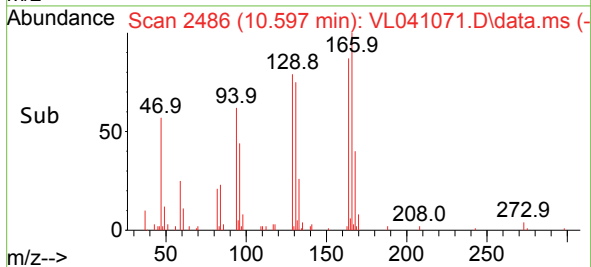
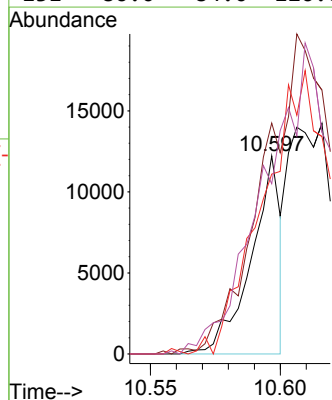
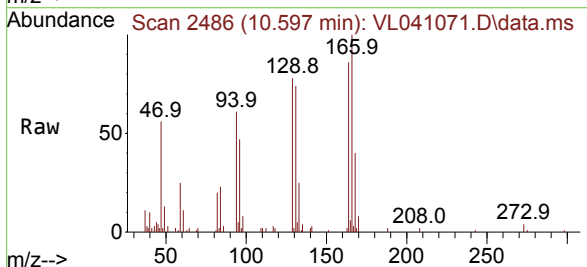
Ion Ratio Lower Upper

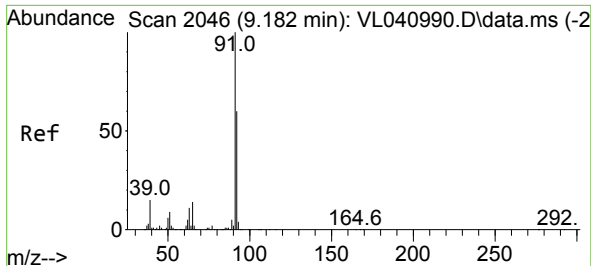
164 100

166 114.1 100.2 150.2

129 91.9 87.9 131.9

131 86.0 84.0 126.0

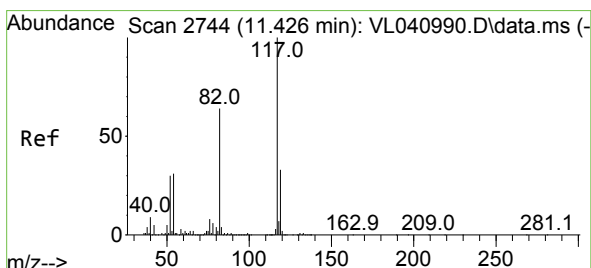
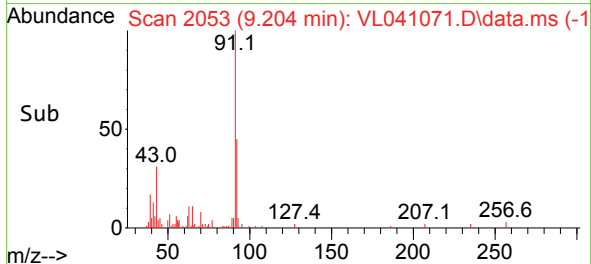
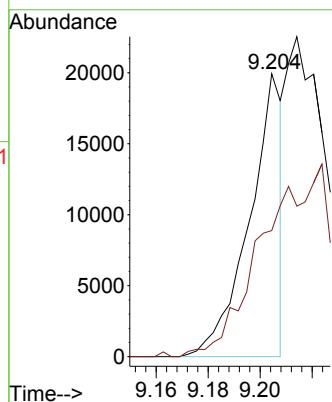
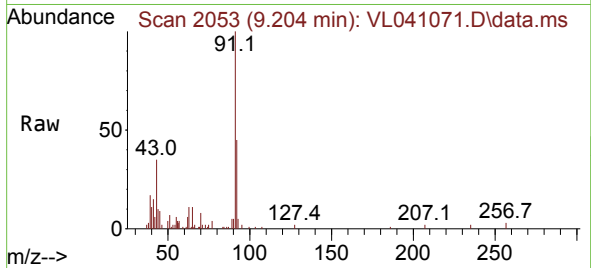




#53
Toluene
Concen: 0.063 ppbv
RT: 9.204 min Scan# 2046
Delta R.T. -0.000 min
Lab File: VL041071.D
Acq: 15 Feb 2024 14:52

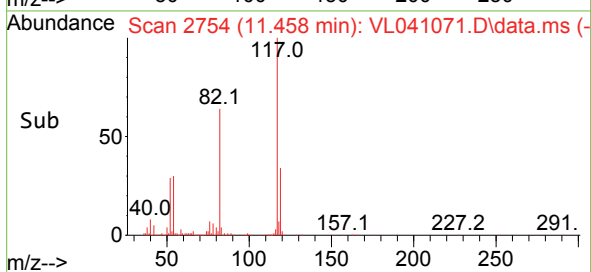
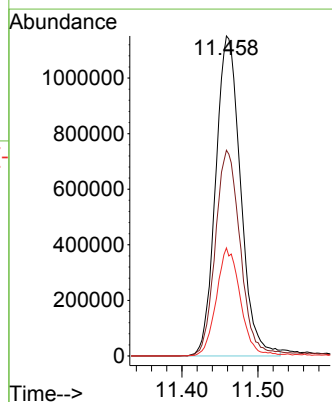
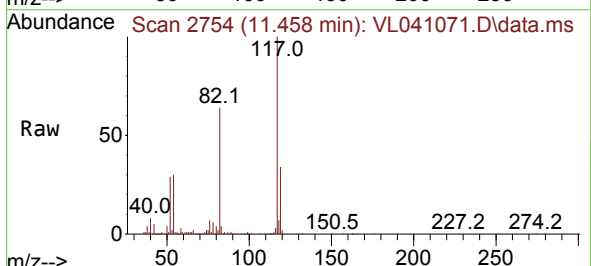
Instrument :
MSVOA_L
ClientSampleId :
IA2

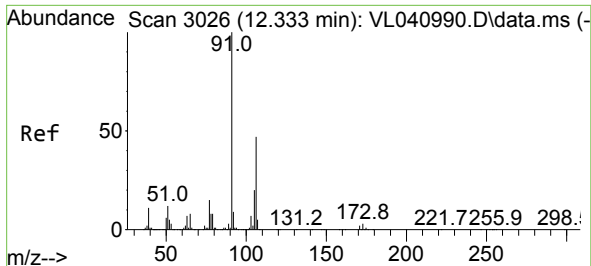
Tgt Ion: 91 Resp: 17303
Ion Ratio Lower Upper
91 100
92 0.0 48.6 72.8#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.458 min Scan# 2754
Delta R.T. 0.006 min
Lab File: VL041071.D
Acq: 15 Feb 2024 14:52

Tgt Ion: 117 Resp: 2619266
Ion Ratio Lower Upper
117 100
82 65.9 51.7 77.5
119 33.3 23.8 35.6





#59

m/p-Xylene

Concen: 0.037 ppbv

RT: 12.368 min Scan# 3026

Delta R.T. 0.010 min

Lab File: VL041071.D

Acq: 15 Feb 2024 14:52

Instrument :

MSVOA_L

ClientSampleId :

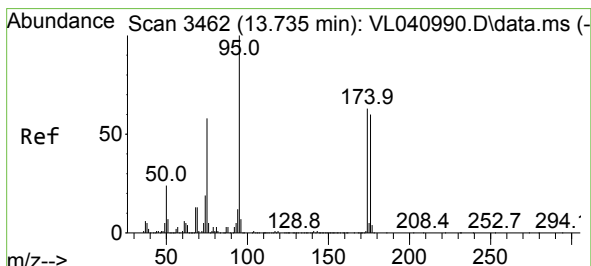
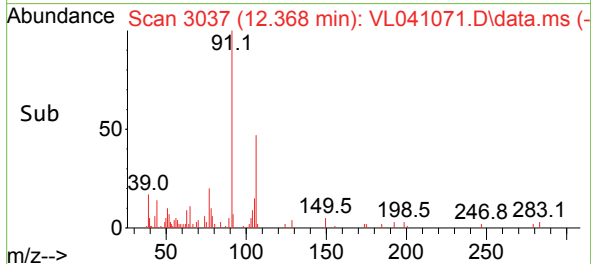
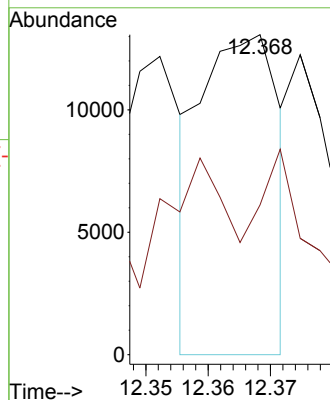
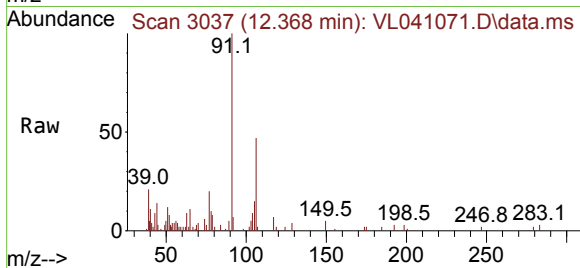
IA2

Tgt Ion: 91 Resp: 11279

Ion Ratio Lower Upper

91 100

106 0.0 34.9 52.3#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.351 ppbv

RT: 13.773 min Scan# 3474

Delta R.T. 0.013 min

Lab File: VL041071.D

Acq: 15 Feb 2024 14:52

Tgt Ion: 95 Resp: 2047758

Ion Ratio Lower Upper

95 100

174 61.6 49.1 73.7

175 4.4 3.7 5.5

