

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080923\
 Data File : VL040624.D
 Acq On : 10 Aug 2023 3:22
 Operator : SY/MD
 Sample : 03950-01 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Quant Time: Aug 10 08:27:45 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Jul 10 16:32:00 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.192	49	861557	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.655	114	2135953	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.474	117	1931895	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	1578065	10.321	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.200%

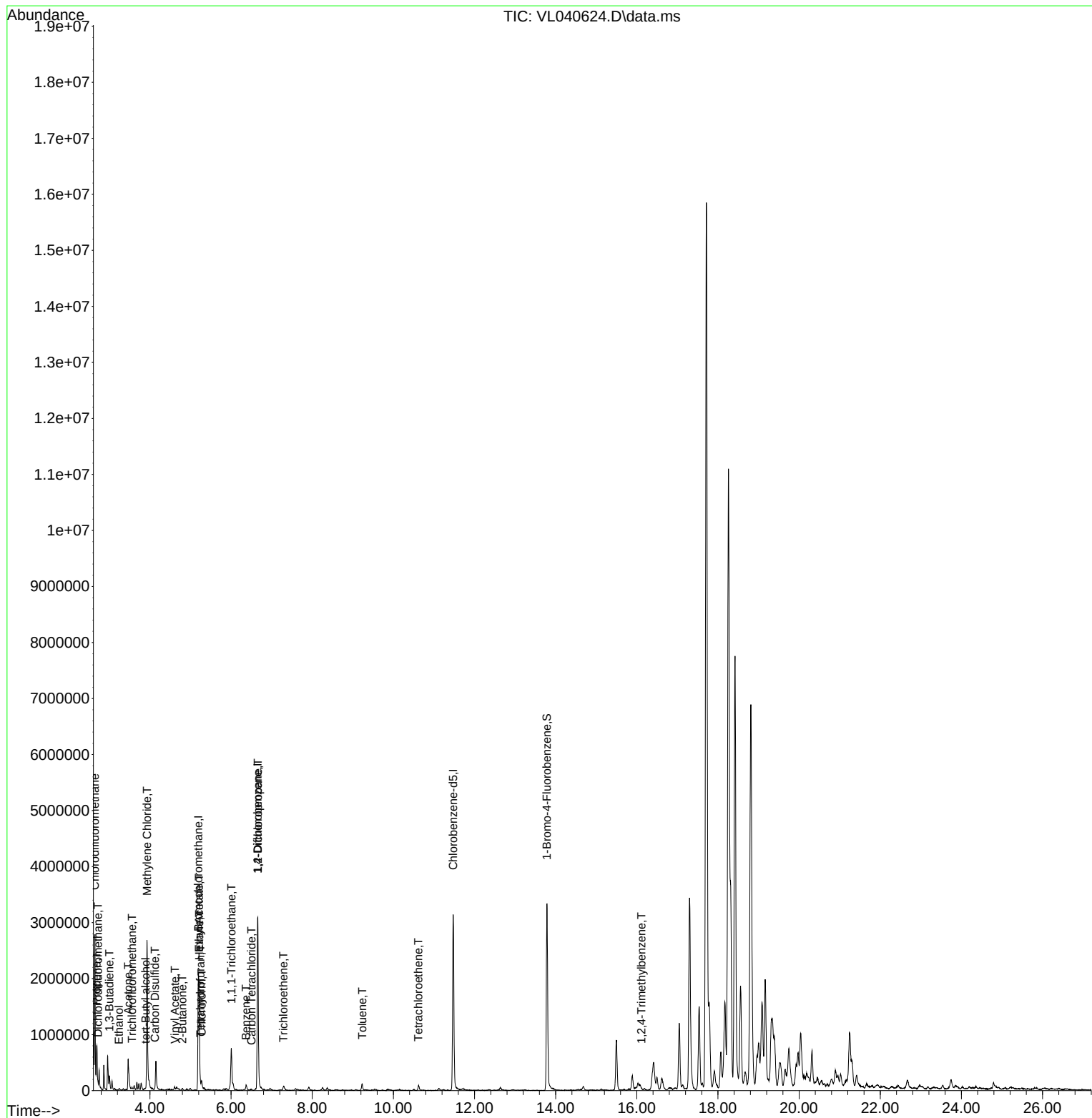
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.722	85	42858	0.249	ppbv	91
3) Chlorodifluoromethane	2.642	51	292299	2.140	ppbv #	62
9) Propene	2.684	41	270128	5.778	ppbv	91
11) Trichlorofluoromethane	3.558	101	18504	0.133	ppbv	89
13) Ethanol	3.237	45	12541	1.233	ppbv #	6
15) Acetone	3.465	43	613529	6.187	ppbv	98
16) 1,3-Butadiene	3.002	39	22965	0.459	ppbv #	1
17) tert-Butyl alcohol	3.896	59	6168	0.060	ppbv #	71
20) Methylene Chloride	3.928	84	942235	22.336	ppbv	97
23) Vinyl Acetate	4.619	43	8889	0.094	ppbv #	85
25) Ethyl Acetate	5.211	43	280185	1.484	ppbv #	76
26) Hexane	5.214	57	412013	4.697	ppbv #	38
27) Carbon Disulfide	4.124	76	13102	0.127	ppbv #	1
29) Chloroform	5.275	83	75037	0.516	ppbv #	81
32) 1,1,1-Trichloroethane	6.005	97	455004	3.196	ppbv	96
34) 2-Butanone	4.800	43	30000	0.284	ppbv #	86
35) Carbon Tetrachloride	6.504	117	3909	0.030	ppbv	96
36) Benzene	6.369	78	70345	0.409	ppbv #	94
38) Trichloroethene	7.295	130	10315	0.159	ppbv #	91
39) 1,2-Dichloropropane	6.658	63	564377	8.530	ppbv #	27
41) Tetrahydrofuran	5.246	42	4382	0.071	ppbv #	39
52) Tetrachloroethene	10.616	164	6773	0.122	ppbv	85
53) Toluene	9.233	91	85065	0.456	ppbv	93
74) 1,2,4-Trimethylbenzene	16.117	105	9327	0.038	ppbv #	58

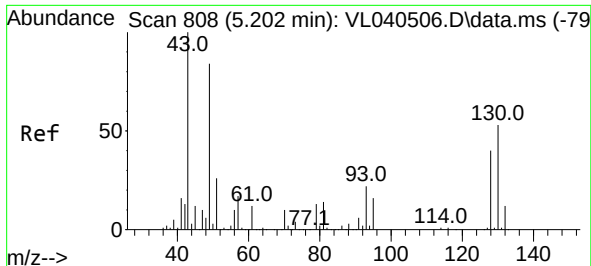
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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SV1

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
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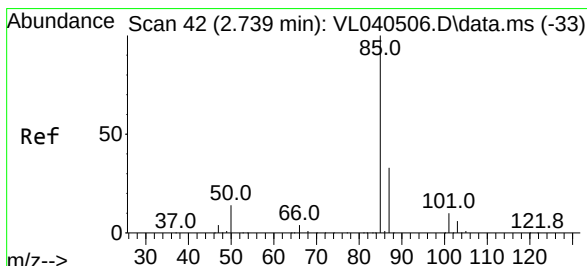
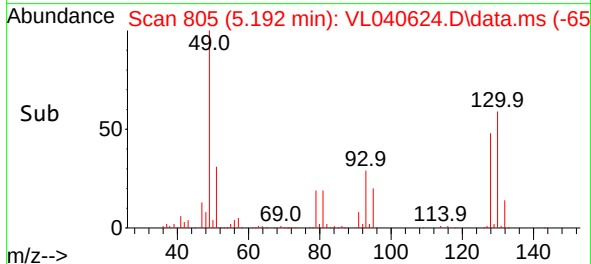
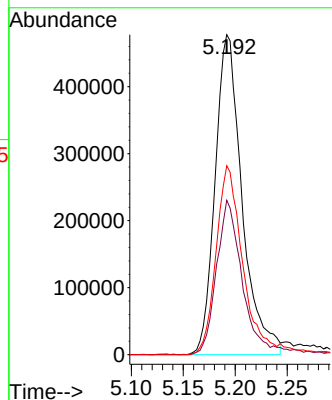
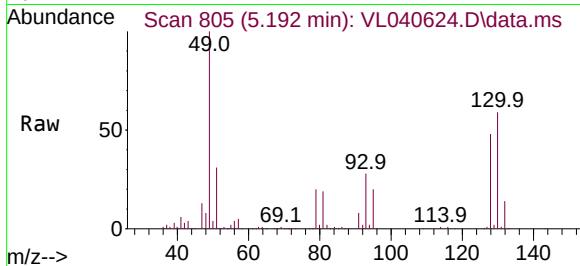




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.192 min Scan# 80
 Delta R.T. -0.010 min
 Lab File: VL040624.D
 Acq: 10 Aug 2023 3:22

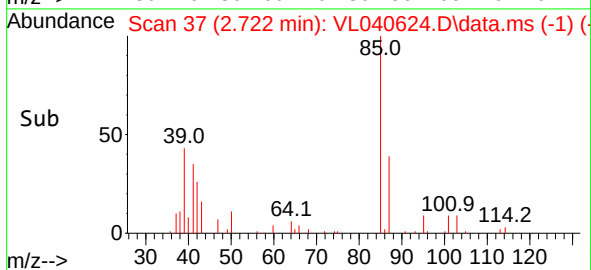
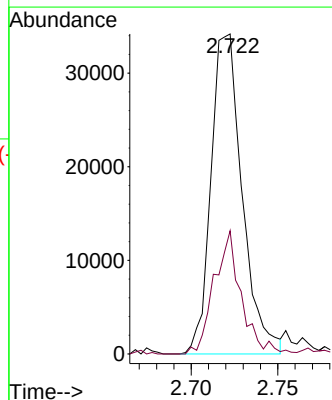
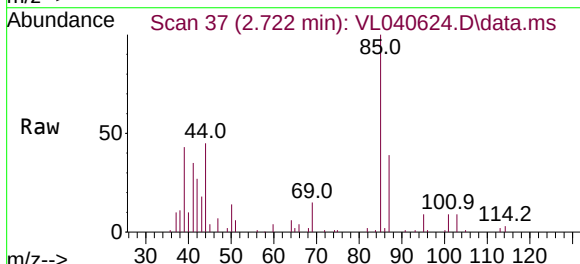
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

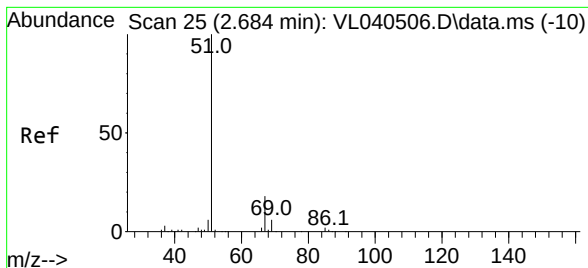
Tgt Ion: 49 Resp: 861557
 Ion Ratio Lower Upper
 49 100
 128 48.4 25.1 75.4
 130 60.6 31.6 94.7



#2
 Dichlorodifluoromethane
 Concen: 0.249 ppbv
 RT: 2.722 min Scan# 37
 Delta R.T. -0.016 min
 Lab File: VL040624.D
 Acq: 10 Aug 2023 3:22

Tgt Ion: 85 Resp: 42858
 Ion Ratio Lower Upper
 85 100
 87 38.5 26.8 40.2

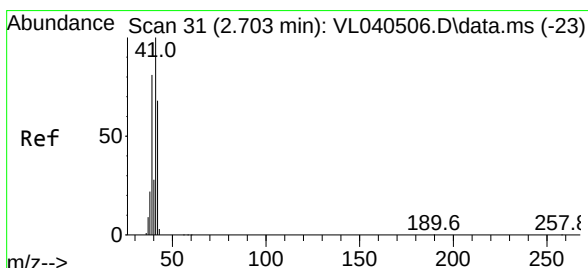
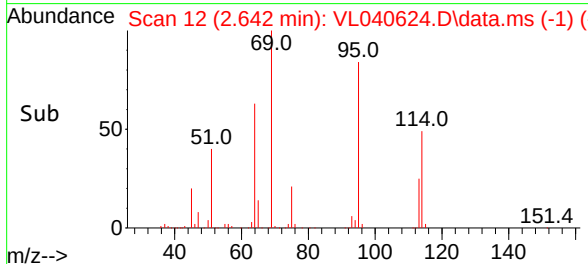
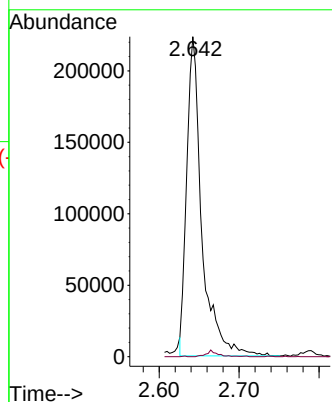
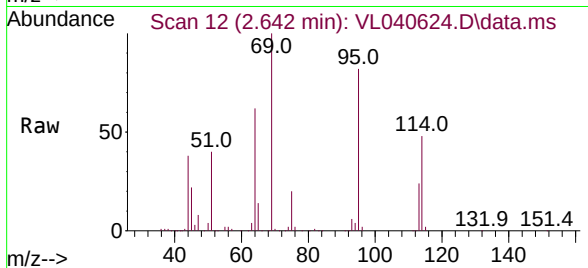




#3
 Chlorodifluoromethane
 Concen: 2.140 ppbv
 RT: 2.642 min Scan# 11
 Delta R.T. -0.042 min
 Lab File: VL040624.D
 Acq: 10 Aug 2023 3:22

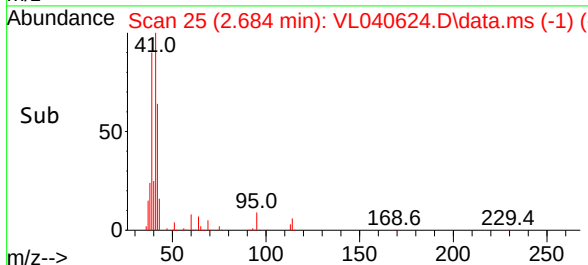
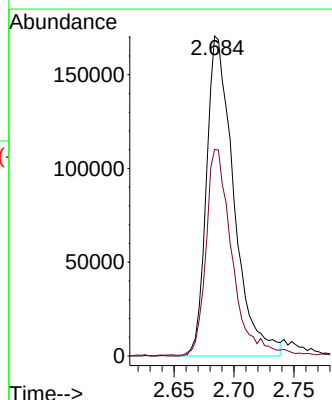
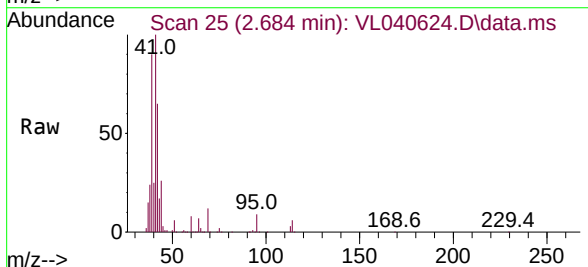
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

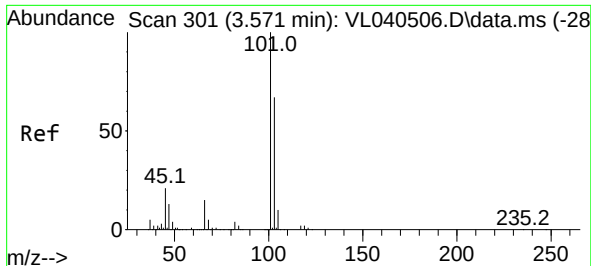
Tgt Ion: 51 Resp: 292299
 Ion Ratio Lower Upper
 51 100
 67 1.5 14.6 21.8#



#9
 Propene
 Concen: 5.778 ppbv
 RT: 2.684 min Scan# 25
 Delta R.T. -0.019 min
 Lab File: VL040624.D
 Acq: 10 Aug 2023 3:22

Tgt Ion: 41 Resp: 270128
 Ion Ratio Lower Upper
 41 100
 42 61.7 55.0 82.6

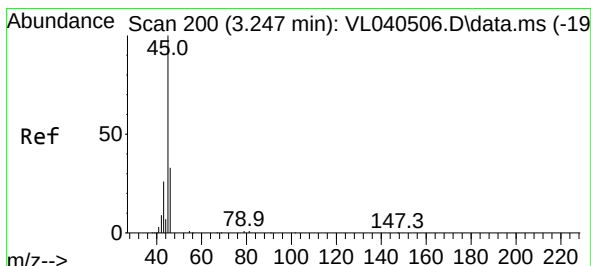
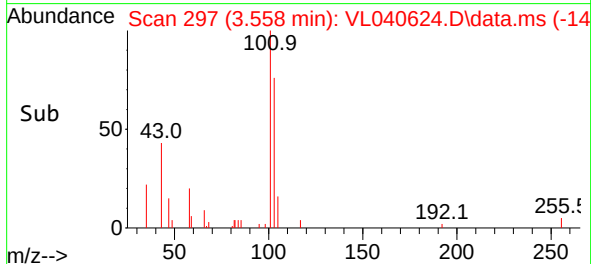
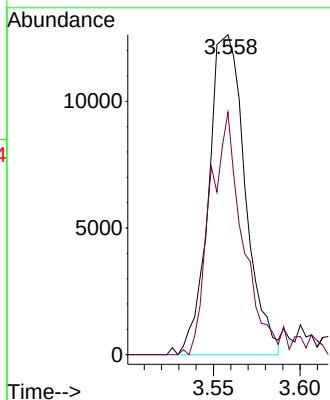
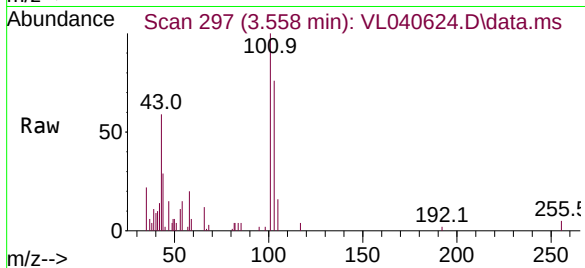




#11
 Trichlorofluoromethane
 Concen: 0.133 ppbv
 RT: 3.558 min Scan# 297
 Delta R.T. -0.013 min
 Lab File: VL040624.D
 Acq: 10 Aug 2023 3:22

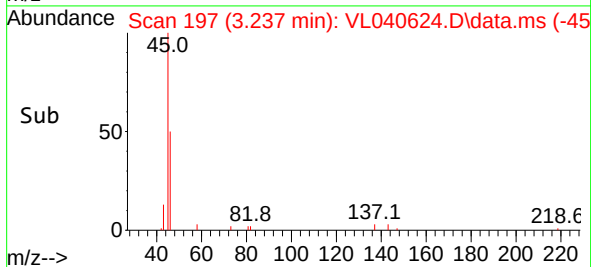
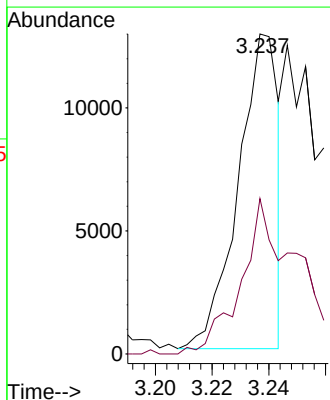
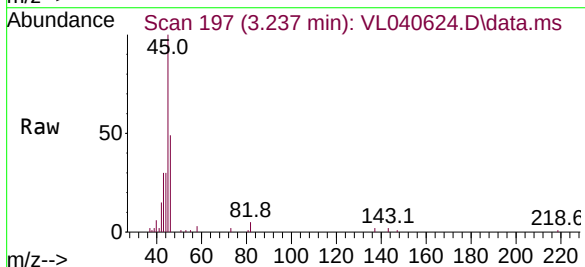
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

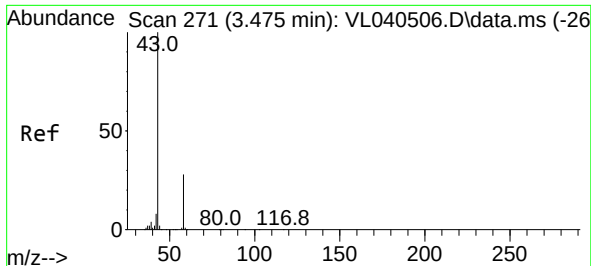
Tgt Ion:101 Resp: 18504
 Ion Ratio Lower Upper
 101 100
 103 75.7 53.4 80.0



#13
 Ethanol
 Concen: 1.233 ppbv
 RT: 3.237 min Scan# 197
 Delta R.T. -0.010 min
 Lab File: VL040624.D
 Acq: 10 Aug 2023 3:22

Tgt Ion: 45 Resp: 12541
 Ion Ratio Lower Upper
 45 100
 46 95.2 15.3 61.1#

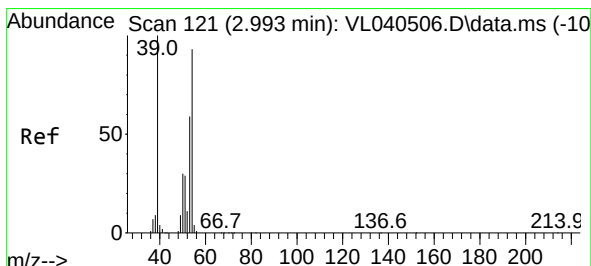
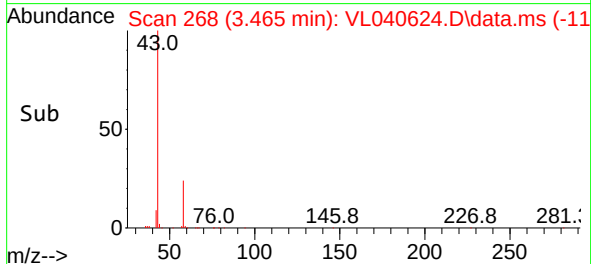
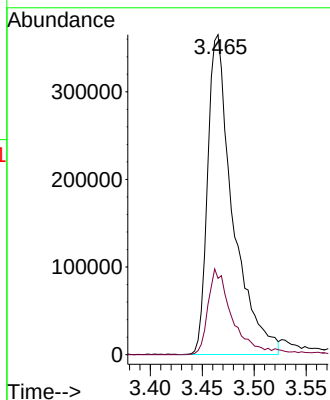
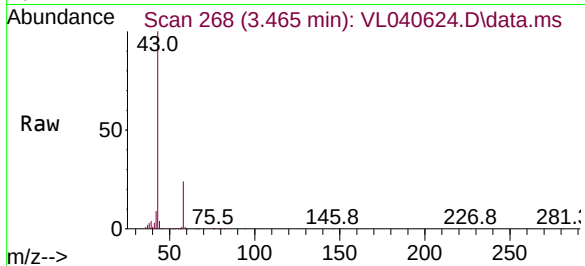




#15
Acetone
Concen: 6.187 ppbv
RT: 3.465 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL040624.D
Acq: 10 Aug 2023 3:22

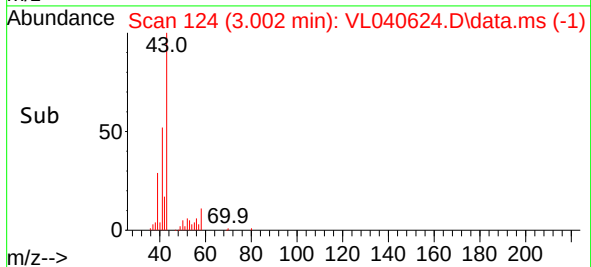
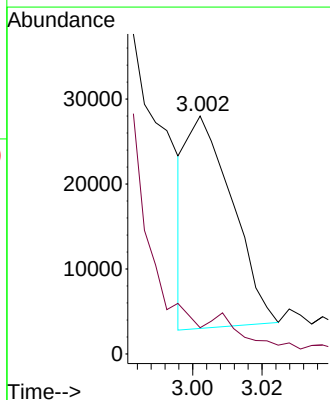
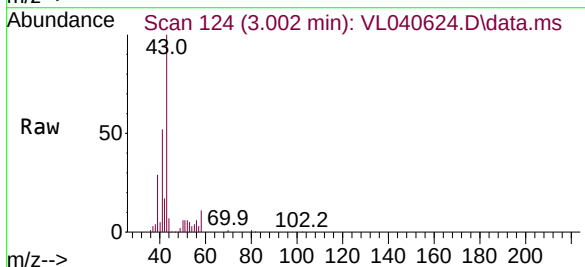
Instrument :
MSVOA_L
ClientSampleId :
SV1

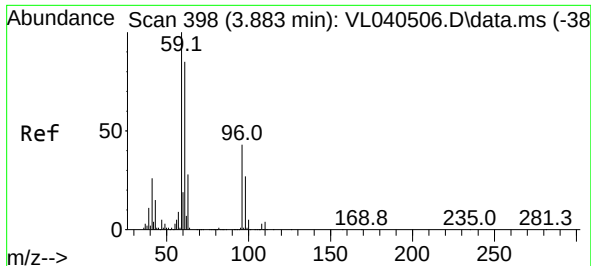
Tgt Ion: 43 Resp: 613529
Ion Ratio Lower Upper
43 100
58 27.8 22.9 34.3



#16
1,3-Butadiene
Concen: 0.459 ppbv
RT: 3.002 min Scan# 124
Delta R.T. 0.010 min
Lab File: VL040624.D
Acq: 10 Aug 2023 3:22

Tgt Ion: 39 Resp: 22965
Ion Ratio Lower Upper
39 100
54 219.9 66.6 100.0#





#17

tert-Butyl alcohol

Concen: 0.060 ppbv

RT: 3.896 min Scan# 402

Delta R.T. 0.013 min

Lab File: VL040624.D

Acq: 10 Aug 2023 3:22

Instrument :

MSVOA_L

ClientSampleId :

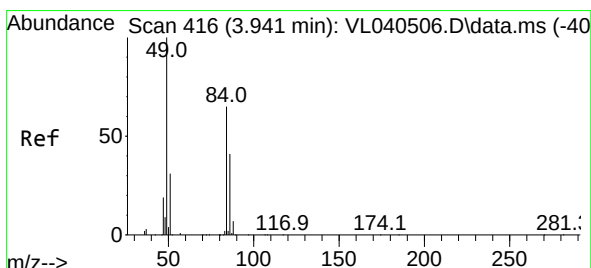
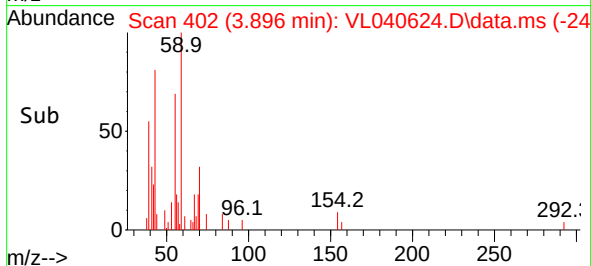
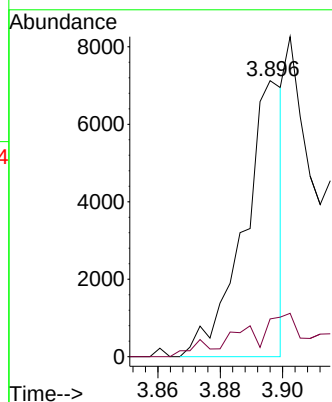
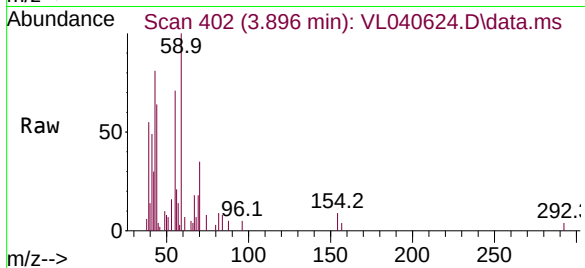
SV1

Tgt Ion: 59 Resp: 6168

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



#20

Methylene Chloride

Concen: 22.336 ppbv

RT: 3.928 min Scan# 412

Delta R.T. -0.013 min

Lab File: VL040624.D

Acq: 10 Aug 2023 3:22

Tgt Ion: 84 Resp: 942235

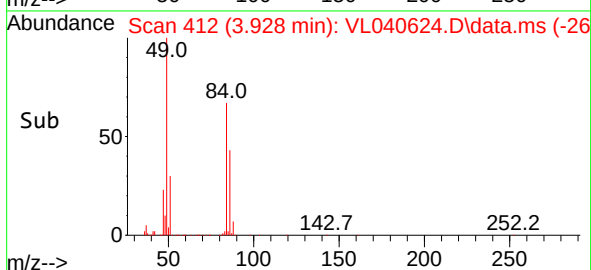
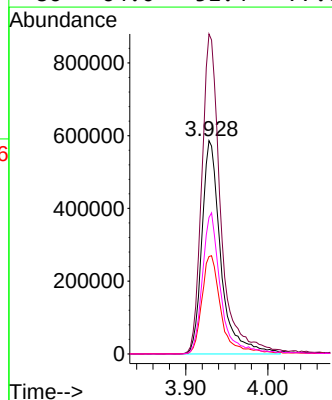
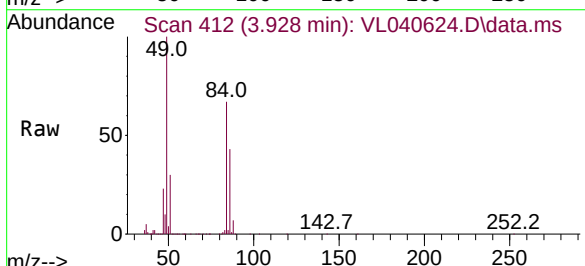
Ion Ratio Lower Upper

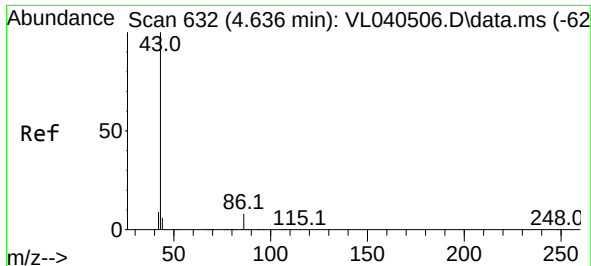
84 100

49 150.0 123.4 185.2

51 45.5 38.3 57.5

86 64.0 51.4 77.0



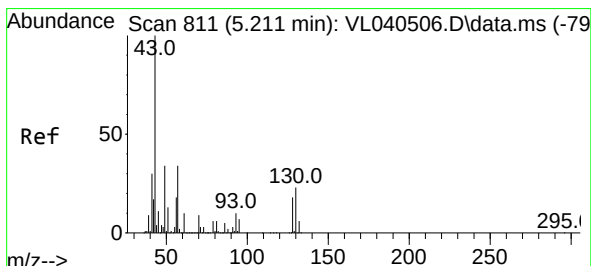
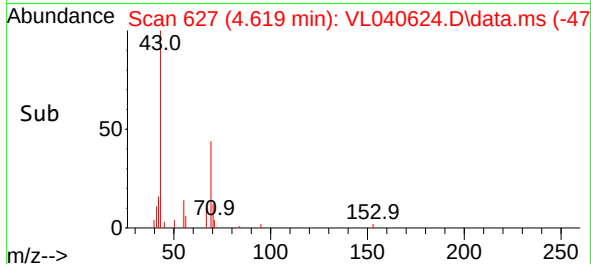
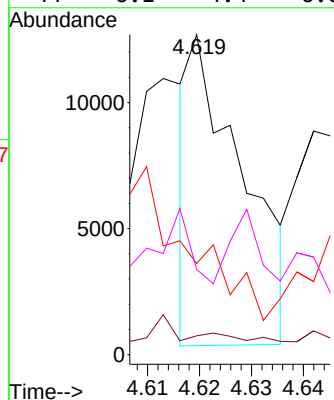
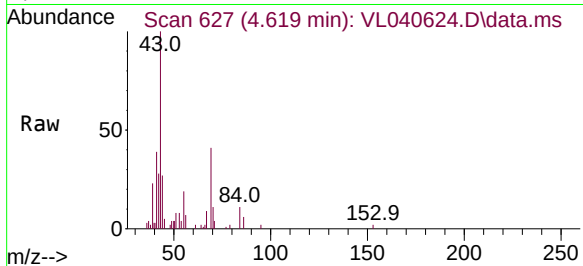


#23
 Vinyl Acetate
 Concen: 0.094 ppbv
 RT: 4.619 min Scan# 61
 Delta R.T. -0.016 min
 Lab File: VL040624.D
 Acq: 10 Aug 2023 3:22

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Tgt Ion: 43 Resp: 8889

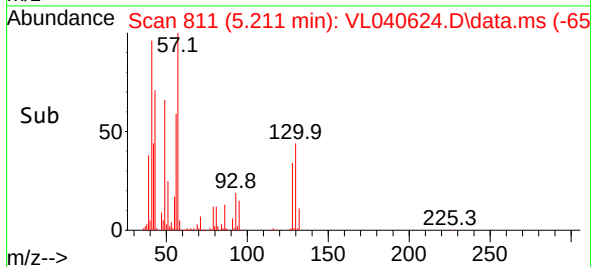
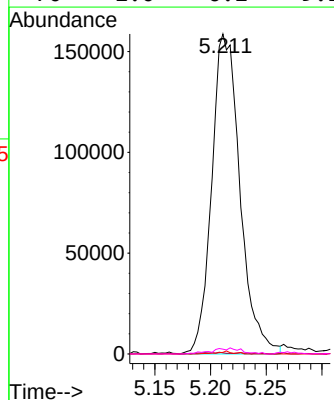
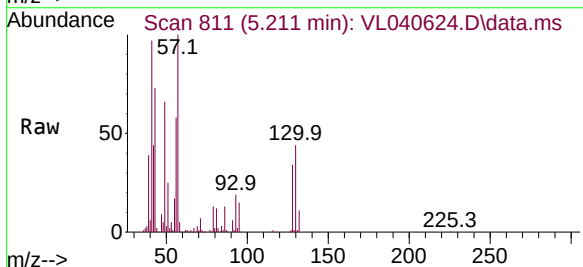
Ion	Ratio	Lower	Upper
43	100		
86	3.0	5.6	8.4#
42	18.5	7.4	11.2#
44	6.1	4.4	6.6

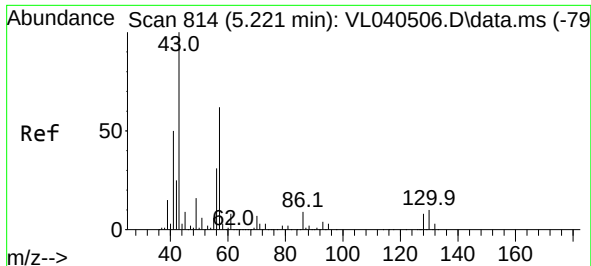


#25
 Ethyl Acetate
 Concen: 1.484 ppbv
 RT: 5.211 min Scan# 811
 Delta R.T. -0.000 min
 Lab File: VL040624.D
 Acq: 10 Aug 2023 3:22

Tgt Ion: 43 Resp: 280185

Ion	Ratio	Lower	Upper
43	100		
45	0.4	8.2	12.4#
61	0.5	8.3	12.5#
70	2.0	6.2	9.2#

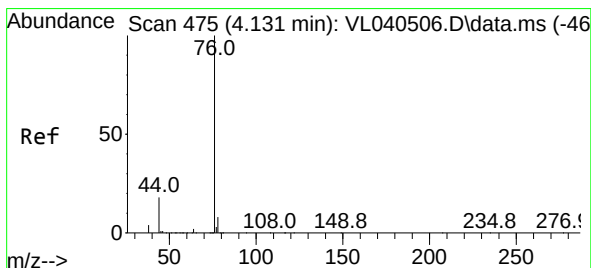
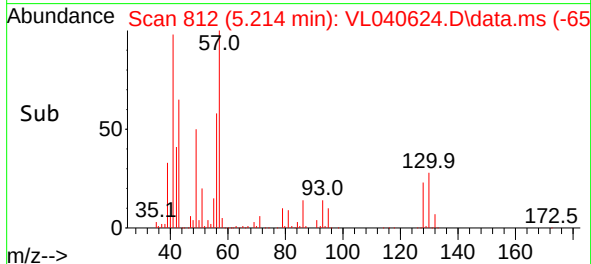
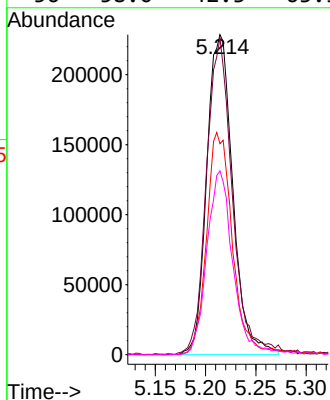
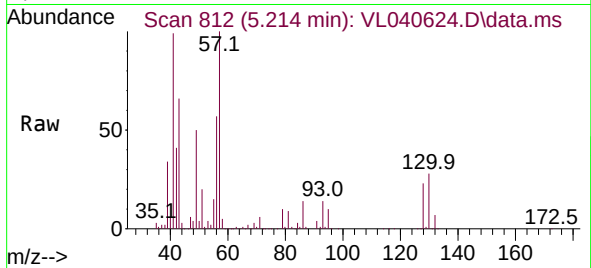




#26
Hexane
Concen: 4.697 ppbv
RT: 5.214 min Scan# 814
Delta R.T. -0.007 min
Lab File: VL040624.D
Acq: 10 Aug 2023 3:22

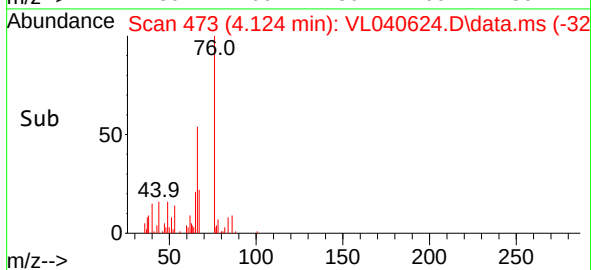
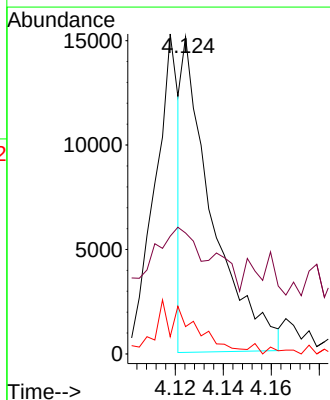
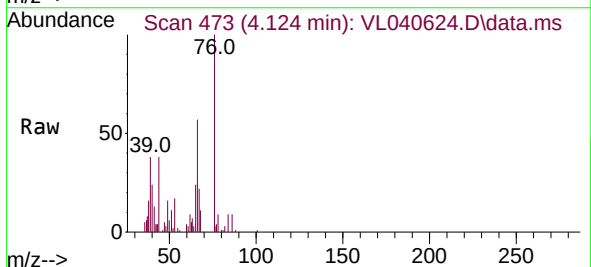
Instrument :
MSVOA_L
ClientSampleId :
SV1

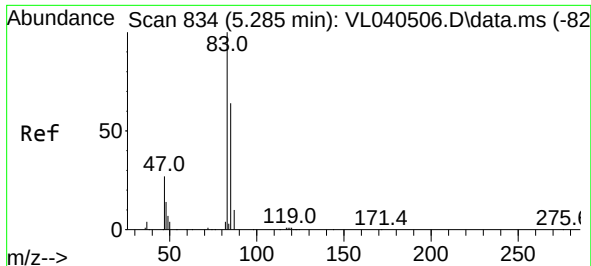
Tgt Ion: 57 Resp: 412013
Ion Ratio Lower Upper
57 100
41 99.7 69.5 104.3
43 70.1 177.1 265.7#
56 58.0 42.3 63.5



#27
Carbon Disulfide
Concen: 0.127 ppbv
RT: 4.124 min Scan# 473
Delta R.T. -0.007 min
Lab File: VL040624.D
Acq: 10 Aug 2023 3:22

Tgt Ion: 76 Resp: 13102
Ion Ratio Lower Upper
76 100
44 79.5 15.1 22.7#
78 0.0 7.5 11.3#

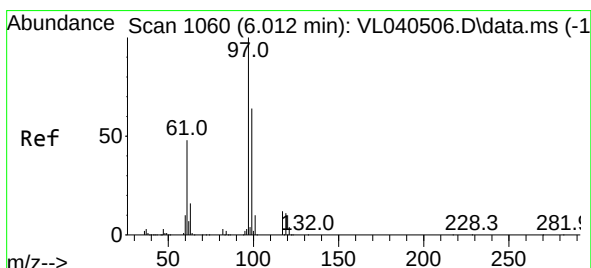
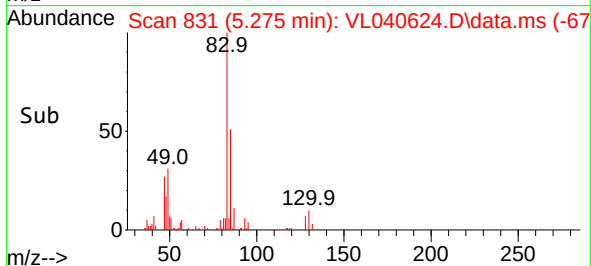
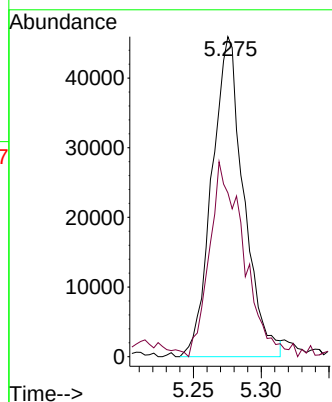
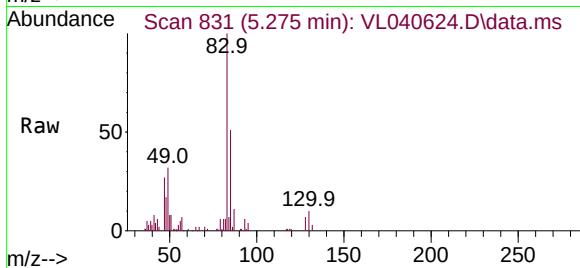




#29
Chloroform
Concen: 0.516 ppbv
RT: 5.275 min Scan# 81
Delta R.T. -0.010 min
Lab File: VL040624.D
Acq: 10 Aug 2023 3:22

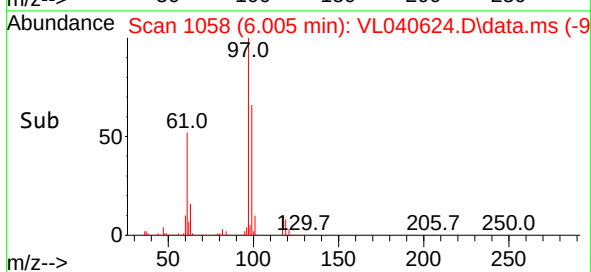
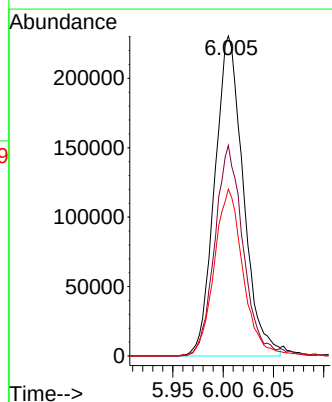
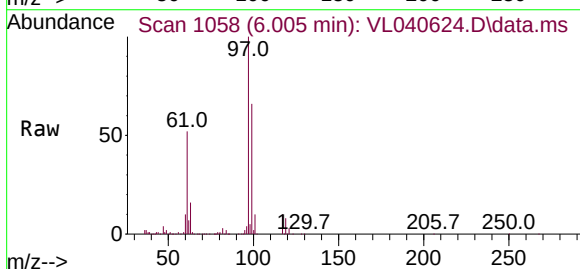
Instrument :
MSVOA_L
ClientSampleId :
SV1

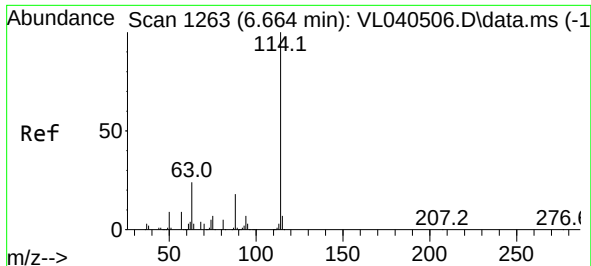
Tgt Ion: 83 Resp: 75037
Ion Ratio Lower Upper
83 100
85 49.4 51.1 76.7#



#32
1,1,1-Trichloroethane
Concen: 3.196 ppbv
RT: 6.005 min Scan# 1058
Delta R.T. -0.007 min
Lab File: VL040624.D
Acq: 10 Aug 2023 3:22

Tgt Ion: 97 Resp: 455004
Ion Ratio Lower Upper
97 100
99 66.0 52.0 78.0
61 53.1 38.9 58.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.655 min Scan# 11

Delta R.T. -0.010 min

Lab File: VL040624.D

Acq: 10 Aug 2023 3:22

Instrument :

MSVOA_L

ClientSampleId :

SV1

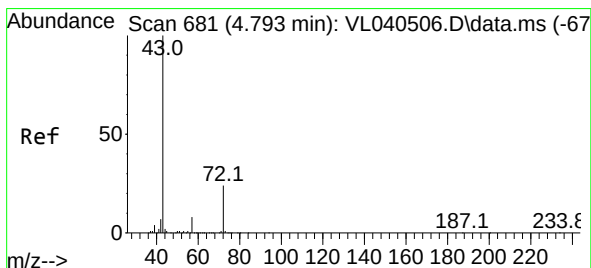
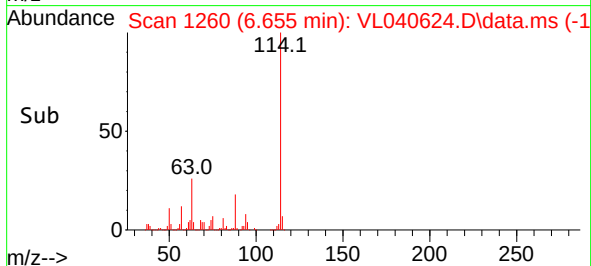
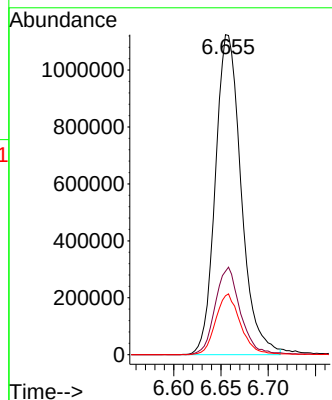
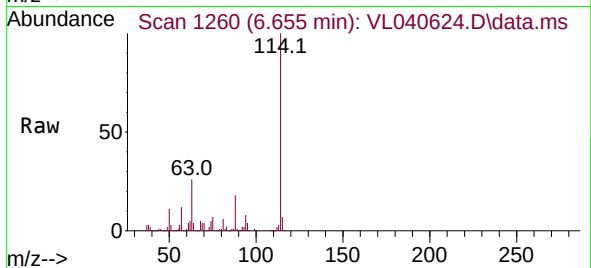
Tgt Ion:114 Resp: 2135953

Ion Ratio Lower Upper

114 100

63 27.1 19.6 29.4

88 18.4 14.2 21.2



#34

2-Butanone

Concen: 0.284 ppbv

RT: 4.800 min Scan# 683

Delta R.T. 0.006 min

Lab File: VL040624.D

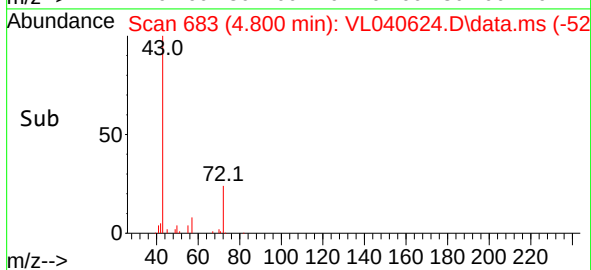
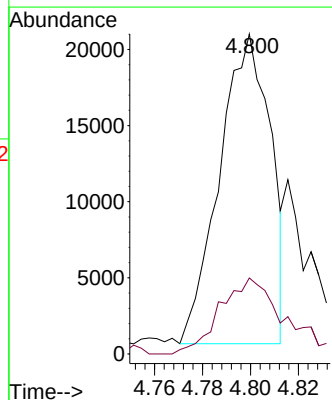
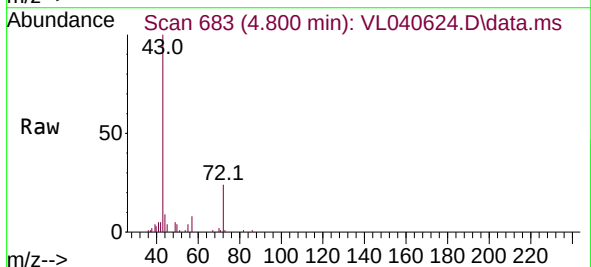
Acq: 10 Aug 2023 3:22

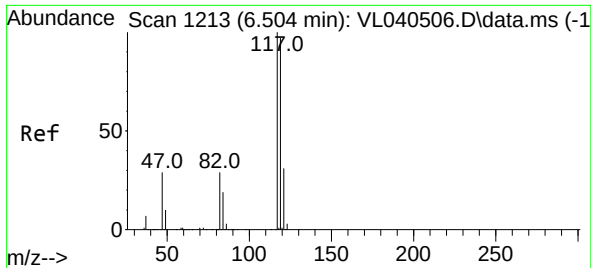
Tgt Ion: 43 Resp: 30000

Ion Ratio Lower Upper

43 100

72 30.9 19.1 28.7#

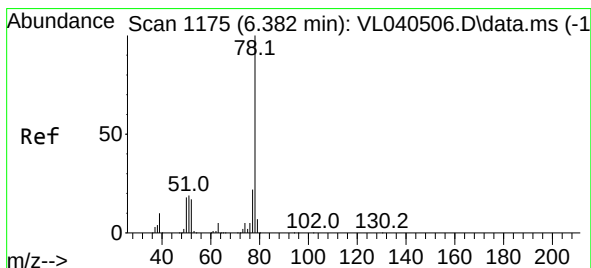
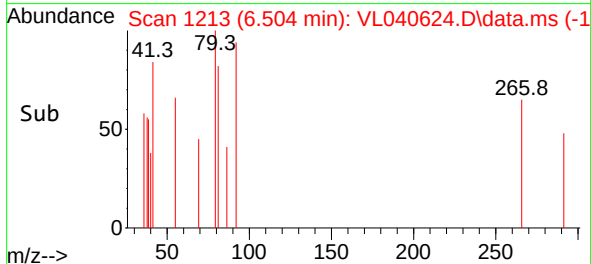
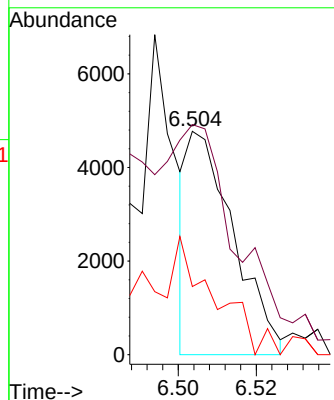
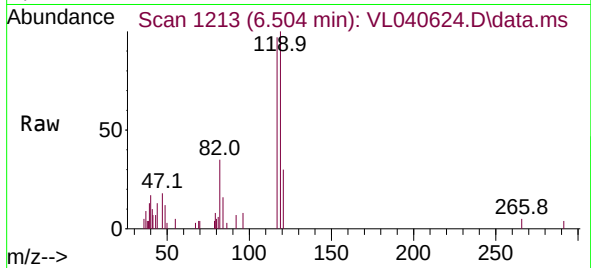




#35
Carbon Tetrachloride
Concen: 0.030 ppbv
RT: 6.504 min Scan# 1171
Delta R.T. -0.000 min
Lab File: VL040624.D
Acq: 10 Aug 2023 3:22

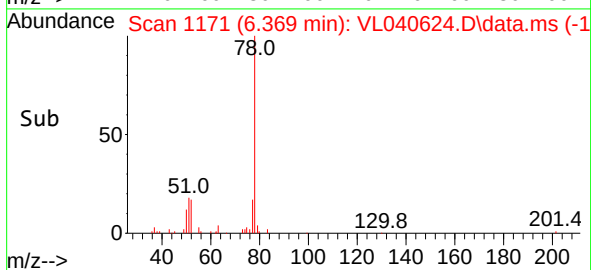
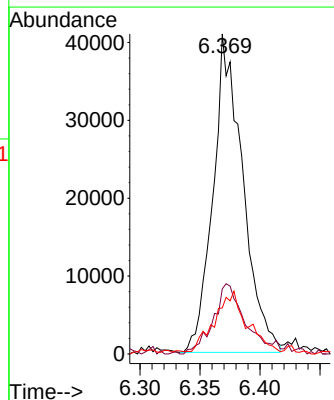
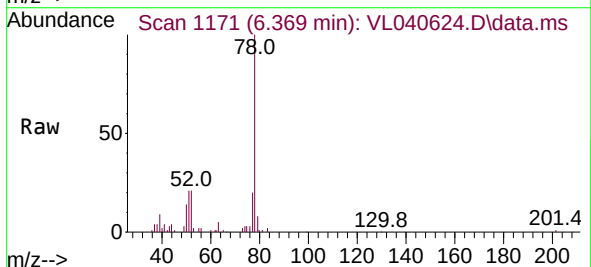
Instrument :
MSVOA_L
ClientSampleId :
SV1

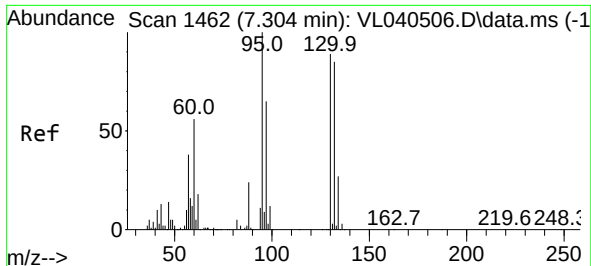
Tgt Ion:	117	Resp:	3909
Ion	Ratio	Lower	Upper
117	100		
119	92.7	77.8	116.6
121	32.7	24.8	37.2



#36
Benzene
Concen: 0.409 ppbv
RT: 6.369 min Scan# 1171
Delta R.T. -0.013 min
Lab File: VL040624.D
Acq: 10 Aug 2023 3:22

Tgt Ion:	78	Resp:	70345
Ion	Ratio	Lower	Upper
78	100		
77	20.4	17.4	26.0
50	13.7	14.4	21.6



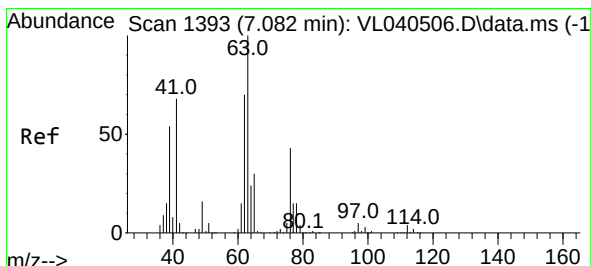
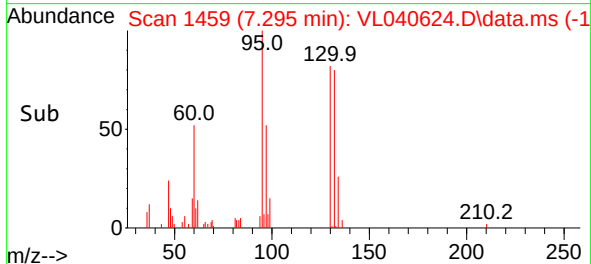
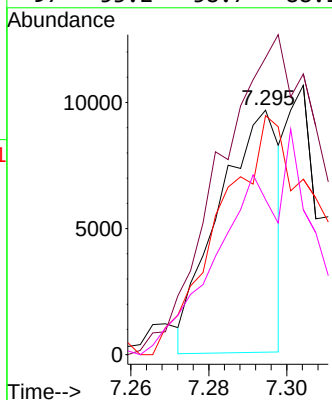
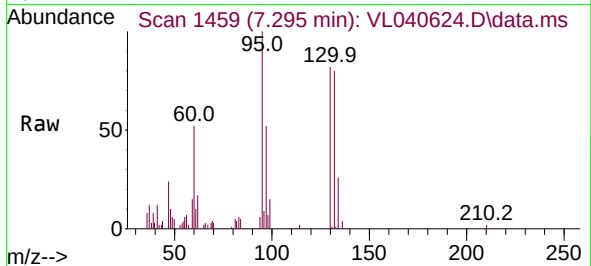


#38
 Trichloroethene
 Concen: 0.159 ppbv
 RT: 7.295 min Scan# 1462
 Delta R.T. -0.010 min
 Lab File: VL040624.D
 Acq: 10 Aug 2023 3:22

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Tgt Ion: 130 Resp: 10315

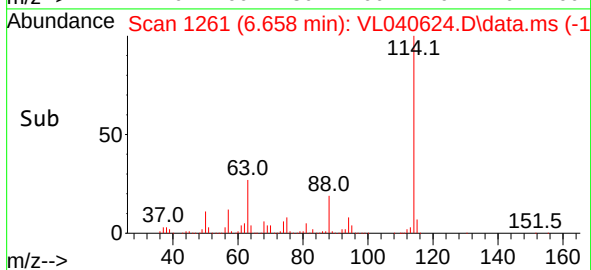
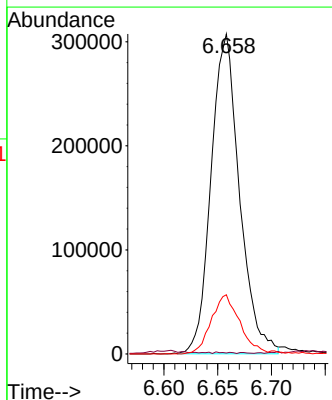
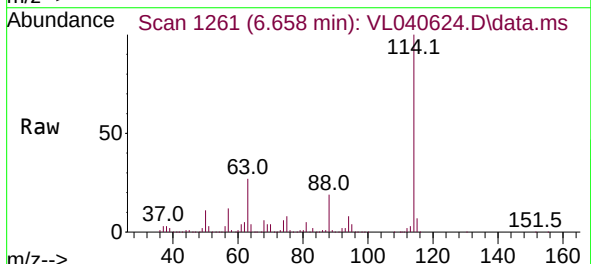
Ion	Ratio	Lower	Upper
130	100		
95	109.4	90.2	135.2
132	91.7	76.3	114.5
97	53.2	58.7	88.1#

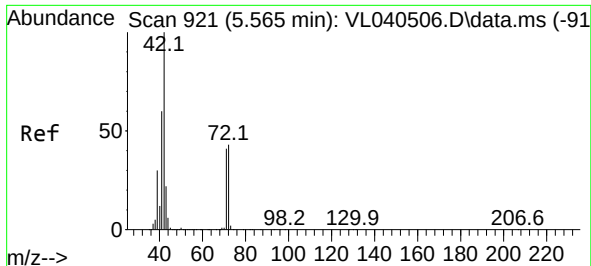


#39
 1,2-Dichloropropane
 Concen: 8.530 ppbv
 RT: 6.658 min Scan# 1261
 Delta R.T. -0.425 min
 Lab File: VL040624.D
 Acq: 10 Aug 2023 3:22

Tgt Ion: 63 Resp: 564377

Ion	Ratio	Lower	Upper
63	100		
41	0.0	54.3	81.5#
62	18.5	55.6	83.4#

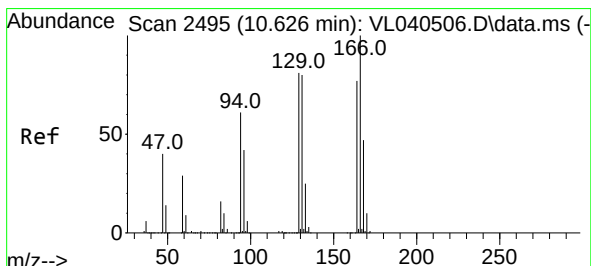
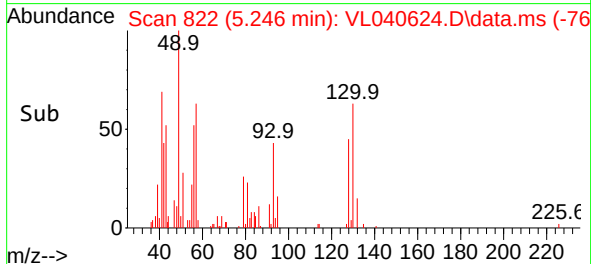
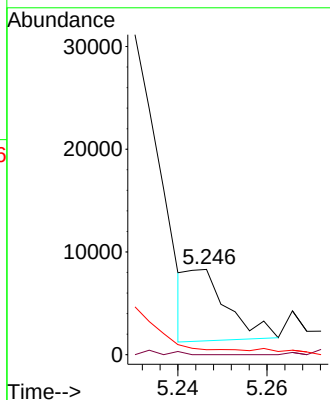
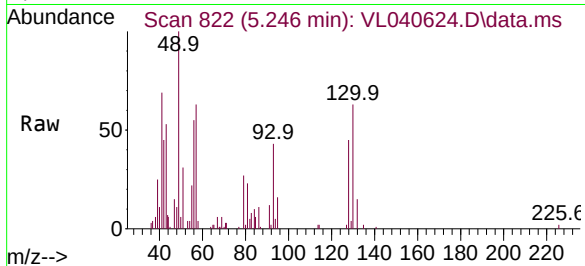




#41
Tetrahydrofuran
Concen: 0.071 ppbv
RT: 5.246 min Scan# 81
Delta R.T. -0.318 min
Lab File: VL040624.D
Acq: 10 Aug 2023 3:22

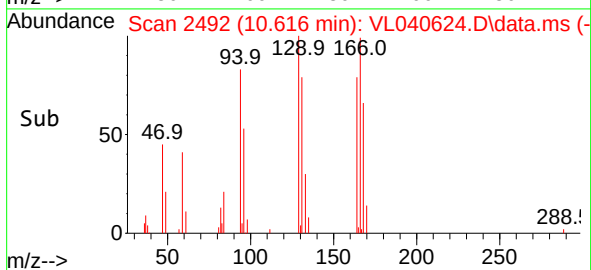
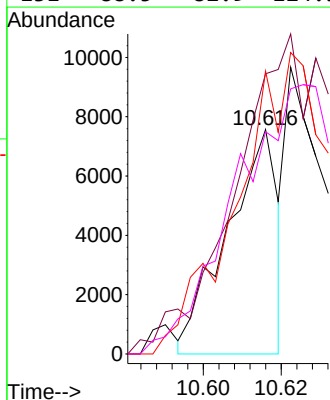
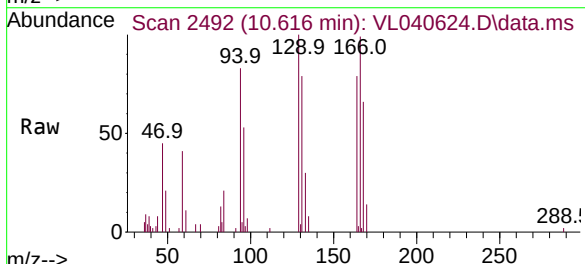
Instrument :
MSVOA_L
ClientSampleId :
SV1

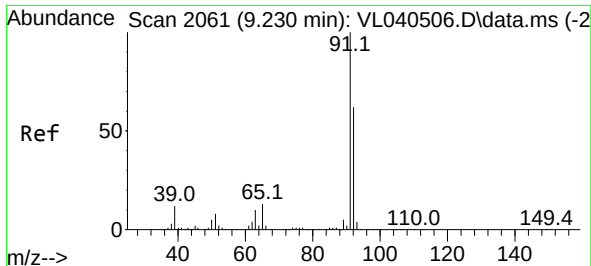
Tgt Ion: 42 Resp: 4382
Ion Ratio Lower Upper
42 100
72 6.7 33.8 50.8#
71 0.0 33.0 49.6#



#52
Tetrachloroethene
Concen: 0.122 ppbv
RT: 10.616 min Scan# 2492
Delta R.T. -0.010 min
Lab File: VL040624.D
Acq: 10 Aug 2023 3:22

Tgt Ion: 164 Resp: 6773
Ion Ratio Lower Upper
164 100
166 111.2 103.9 155.9
129 120.0 84.6 126.8
131 88.5 82.9 124.3

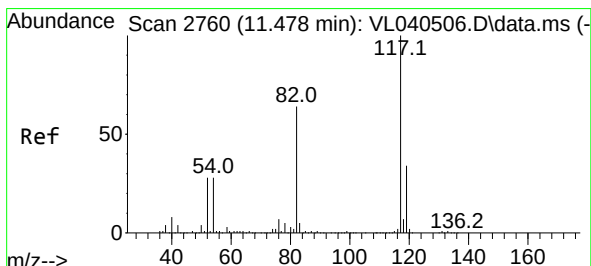
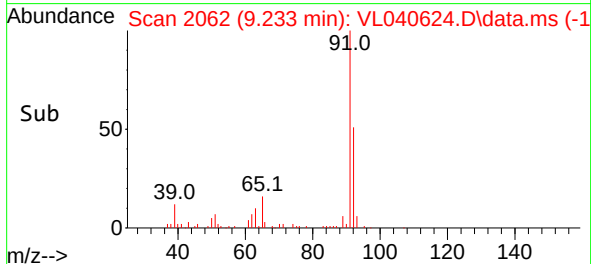
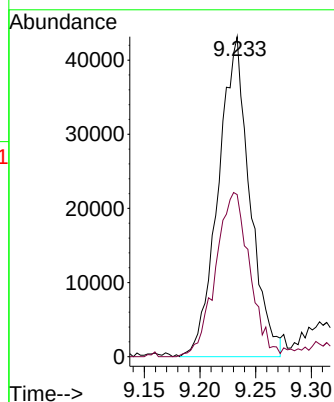
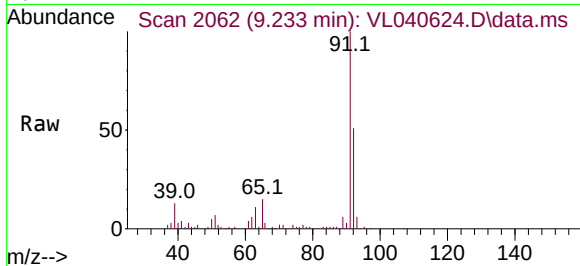




#53
Toluene
Concen: 0.456 ppbv
RT: 9.233 min Scan# 2061
Delta R.T. 0.003 min
Lab File: VL040624.D
Acq: 10 Aug 2023 3:22

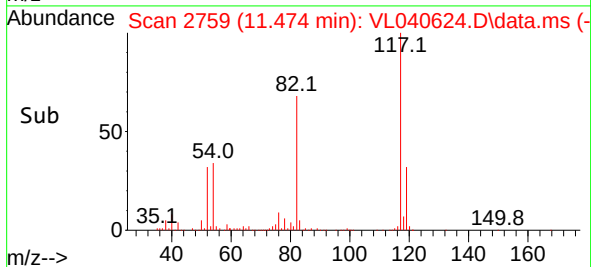
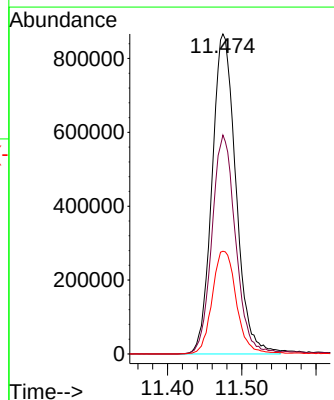
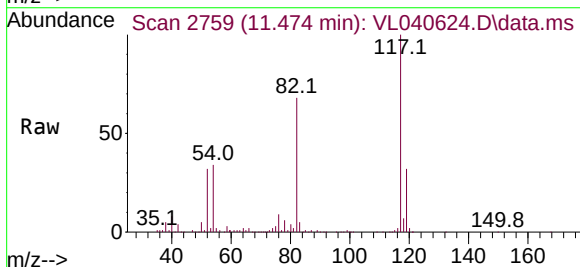
Instrument :
MSVOA_1
ClientSampleId :
SV1

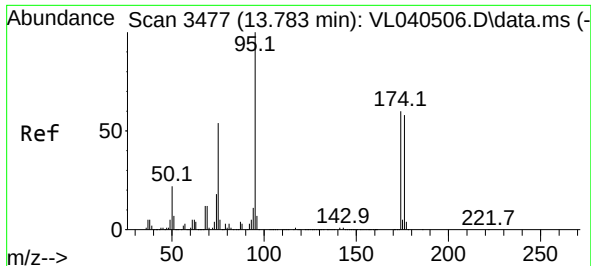
Tgt Ion: 91 Resp: 85065
Ion Ratio Lower Upper
91 100
92 55.9 49.1 73.7



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.474 min Scan# 2759
Delta R.T. -0.003 min
Lab File: VL040624.D
Acq: 10 Aug 2023 3:22

Tgt Ion: 117 Resp: 1931895
Ion Ratio Lower Upper
117 100
82 69.4 50.2 75.4
119 32.9 26.9 40.3

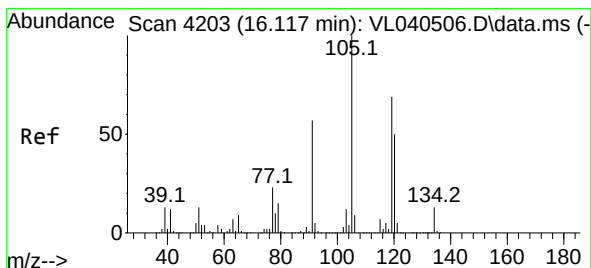
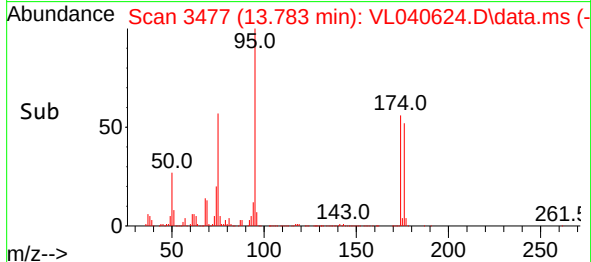
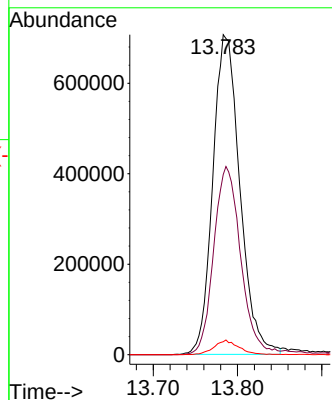
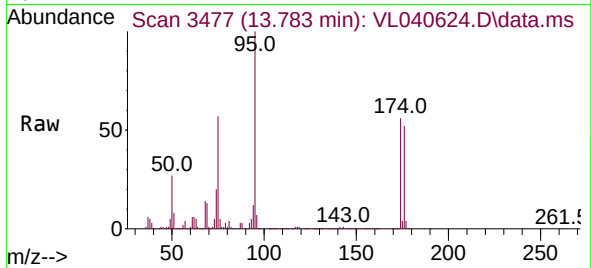




#68
1-Bromo-4-Fluorobenzene
Concen: 10.321 ppbv
RT: 13.783 min Scan# 3477
Delta R.T. -0.000 min
Lab File: VL040624.D
Acq: 10 Aug 2023 3:22

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 95 Resp: 1578065
Ion Ratio Lower Upper
95 100
174 59.5 50.6 75.8
175 4.3 3.7 5.5



#74
1,2,4-Trimethylbenzene
Concen: 0.038 ppbv
RT: 16.117 min Scan# 4203
Delta R.T. -0.000 min
Lab File: VL040624.D
Acq: 10 Aug 2023 3:22

Tgt Ion: 105 Resp: 9327
Ion Ratio Lower Upper
105 100
120 39.8 40.3 60.5#
91 11.2 46.8 70.2#
77 0.0 18.6 28.0#

