

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080923\
 Data File : VL040620.D
 Acq On : 10 Aug 2023 00:41
 Operator : SY/MD
 Sample : 03907-03DL2 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-2DL

Quant Time: Aug 10 01:34:48 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)

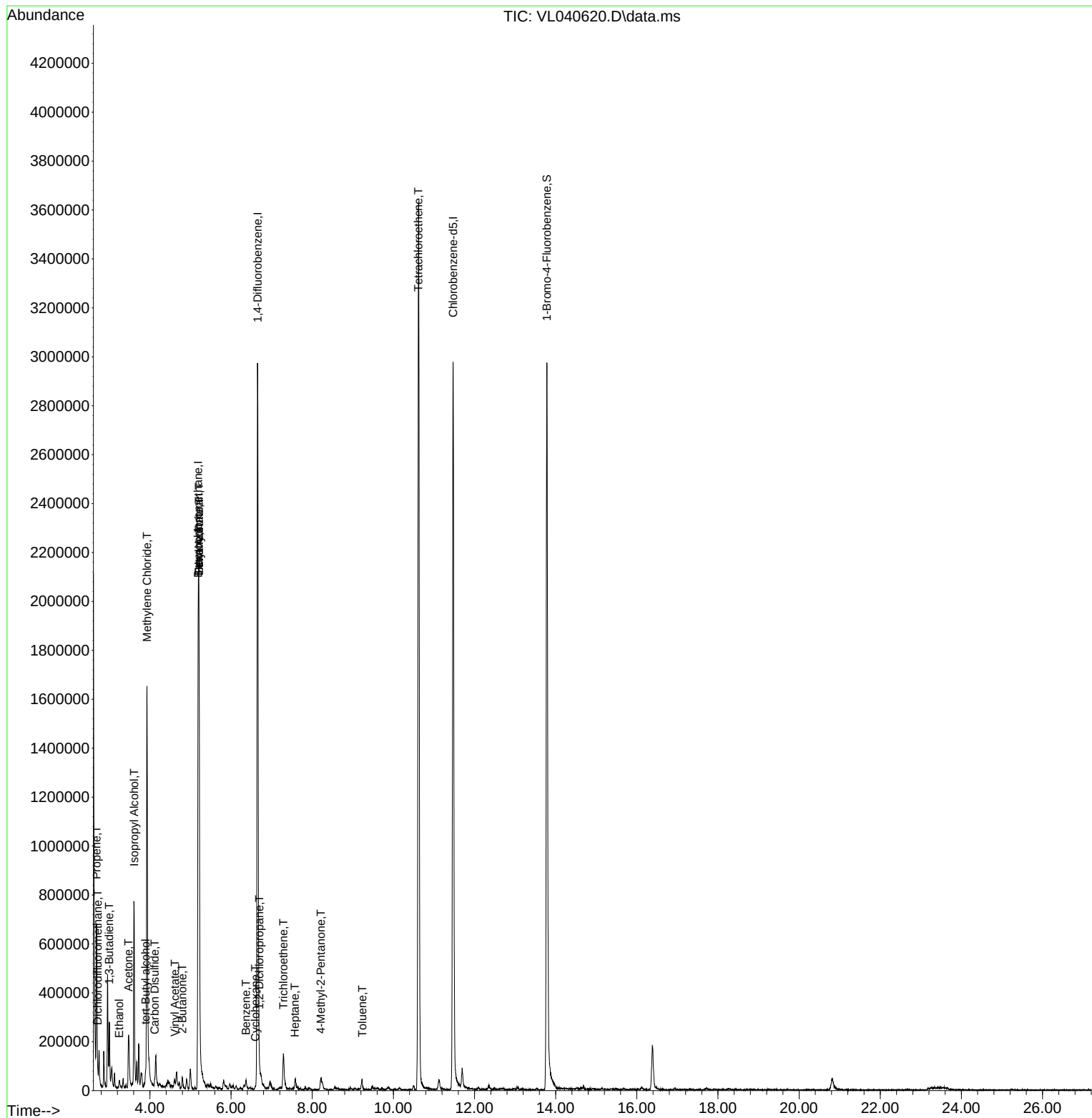
Internal Standards						
1) Bromochloromethane	5.189	49	819495	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.655	114	2234358	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	1957227	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.786	95	1489168	9.614	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.716	85	5663	0.035	ppbv	96
9) Propene	2.684	41	256068	5.758	ppbv	92
10) Heptane	7.571	43	3105	0.032	ppbv #	25
13) Ethanol	3.243	45	13498	1.395	ppbv #	37
15) Acetone	3.472	43	222335	2.357	ppbv	98
16) 1,3-Butadiene	2.996	39	38303	0.805	ppbv #	8
17) tert-Butyl alcohol	3.896	59	29041	0.298	ppbv #	89
19) Isopropyl Alcohol	3.610	45	116917	2.159	ppbv #	1
20) Methylene Chloride	3.928	84	566542	14.119	ppbv	97
23) Vinyl Acetate	4.619	43	4467	0.050	ppbv #	1
25) Ethyl Acetate	5.211	43	396762	2.209	ppbv #	76
26) Hexane	5.211	57	594943	7.131	ppbv #	41
27) Carbon Disulfide	4.118	76	26856	0.274	ppbv #	71
30) Cyclohexane	6.600	84	2135	0.031	ppbv #	4
34) 2-Butanone	4.796	43	22180	0.201	ppbv #	51
36) Benzene	6.369	78	24565	0.137	ppbv #	90
38) Trichloroethene	7.291	130	24905	0.366	ppbv	97
39) 1,2-Dichloropropane	6.697	63	8217	0.119	ppbv #	30
41) Tetrahydrofuran	5.211	42	218122	3.386	ppbv #	46
50) 4-Methyl-2-Pentanone	8.211	43	28140	0.175	ppbv #	82
52) Tetrachloroethene	10.619	164	857804	14.734	ppbv	96
53) Toluene	9.233	91	20918	0.107	ppbv	90

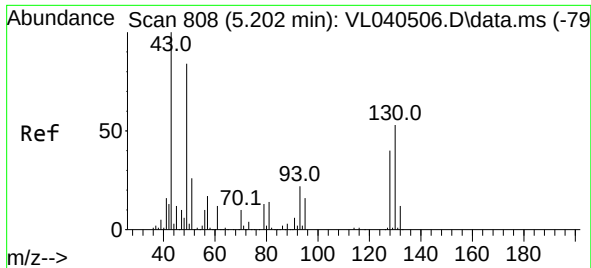
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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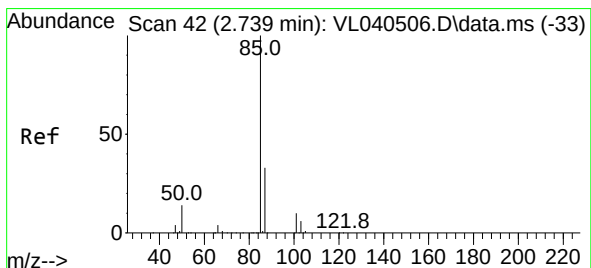
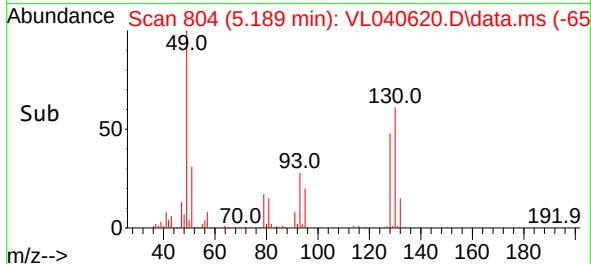
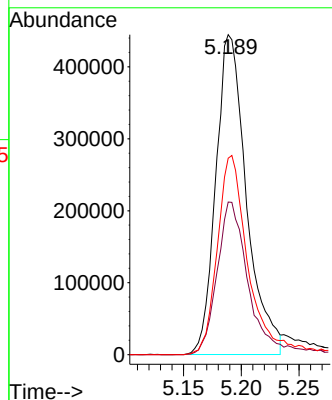
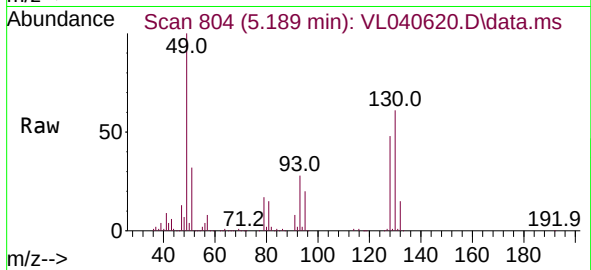




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.189 min Scan# 80
Delta R.T. -0.013 min
Lab File: VL040620.D
Acq: 10 Aug 2023 00:41

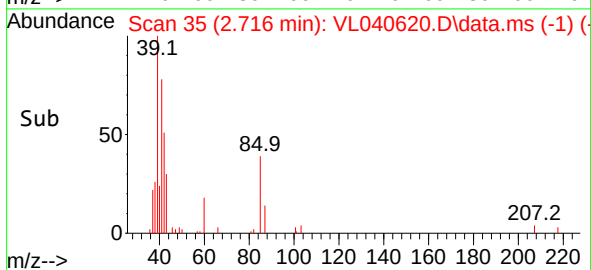
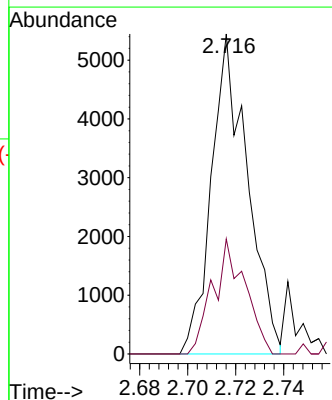
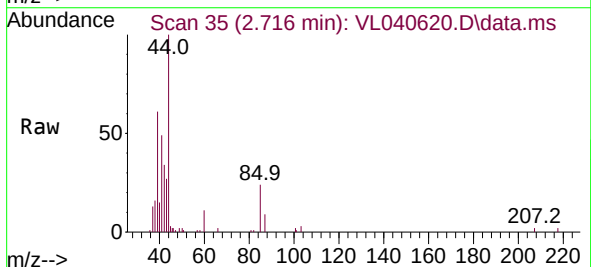
Instrument :
MSVOA_L
ClientSampleId :
SV-2DL

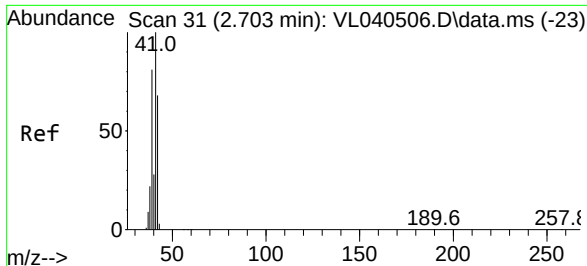
Tgt Ion: 49 Resp: 819495
Ion Ratio Lower Upper
49 100
128 50.3 25.1 75.4
130 66.1 31.6 94.7



#2
Dichlorodifluoromethane
Concen: 0.035 ppbv
RT: 2.716 min Scan# 35
Delta R.T. -0.023 min
Lab File: VL040620.D
Acq: 10 Aug 2023 00:41

Tgt Ion: 85 Resp: 5663
Ion Ratio Lower Upper
85 100
87 36.0 26.8 40.2

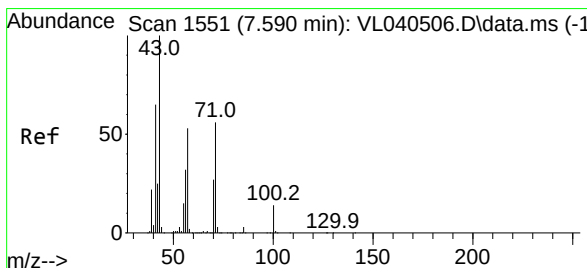
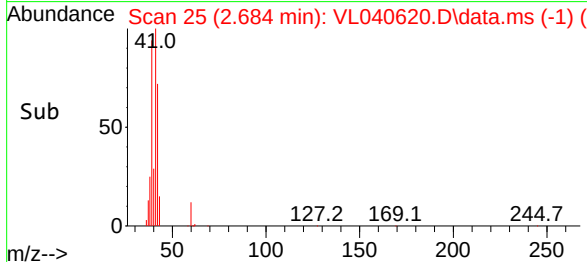
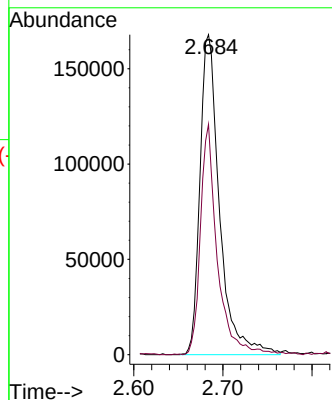
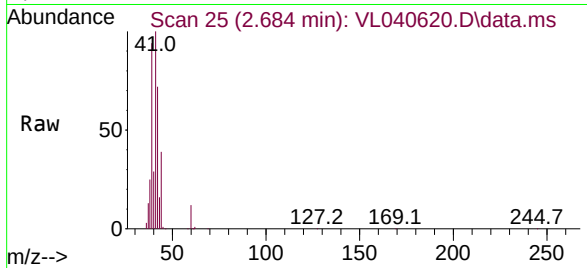




#9
 Propene
 Concen: 5.758 ppbv
 RT: 2.684 min Scan# 21
 Delta R.T. -0.019 min
 Lab File: VL040620.D
 Acq: 10 Aug 2023 00:41

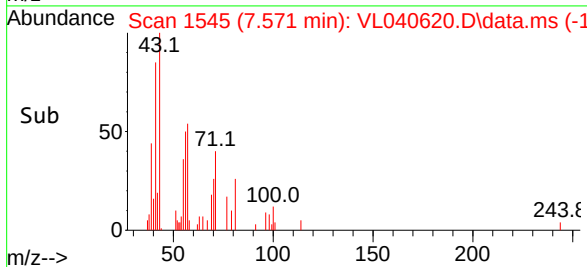
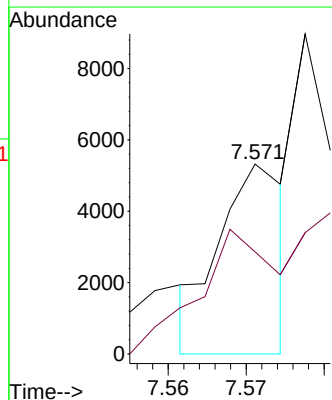
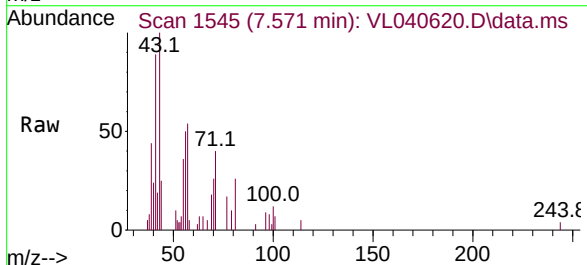
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-2DL

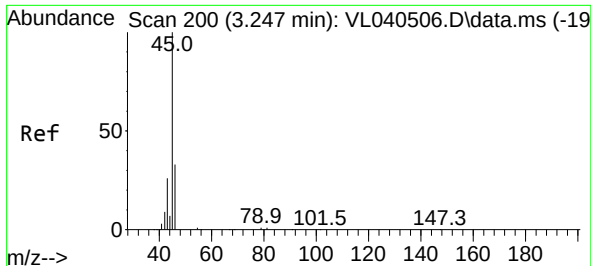
Tgt Ion: 41 Resp: 256068
 Ion Ratio Lower Upper
 41 100
 42 62.4 55.0 82.6



#10
 Heptane
 Concen: 0.032 ppbv
 RT: 7.571 min Scan# 1545
 Delta R.T. -0.019 min
 Lab File: VL040620.D
 Acq: 10 Aug 2023 00:41

Tgt Ion: 43 Resp: 3105
 Ion Ratio Lower Upper
 43 100
 57 0.0 42.5 63.7#

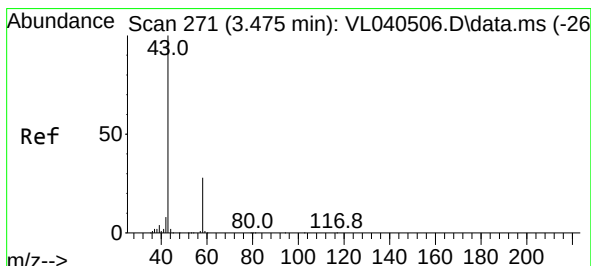
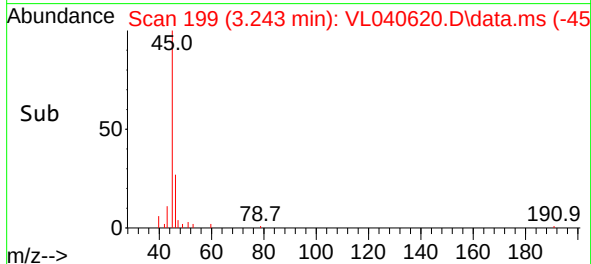
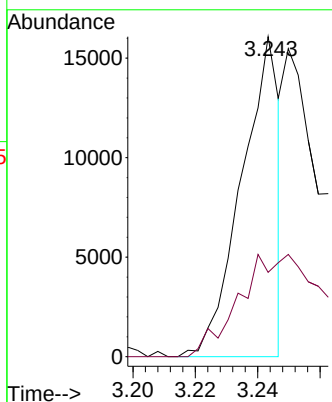
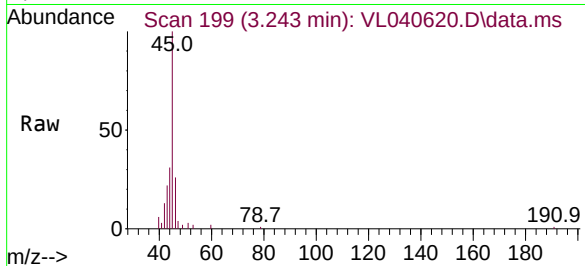




#13
Ethanol
Concen: 1.395 ppbv
RT: 3.243 min Scan# 199
Delta R.T. -0.003 min
Lab File: VL040620.D
Acq: 10 Aug 2023 00:41

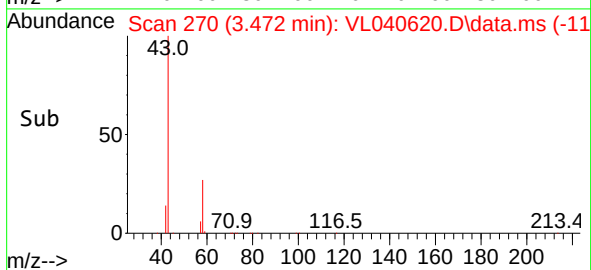
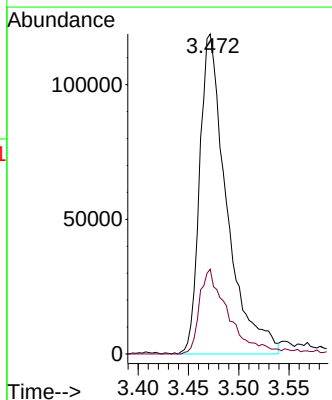
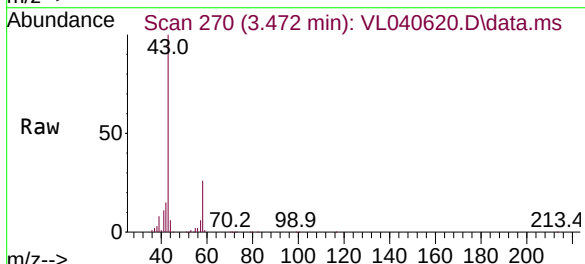
Instrument :
MSVOA_L
ClientSampleId :
SV-2DL

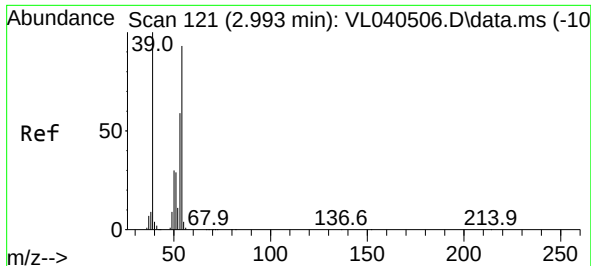
Tgt Ion: 45 Resp: 13498
Ion Ratio Lower Upper
45 100
46 0.0 15.3 61.1#



#15
Acetone
Concen: 2.357 ppbv
RT: 3.472 min Scan# 270
Delta R.T. -0.003 min
Lab File: VL040620.D
Acq: 10 Aug 2023 00:41

Tgt Ion: 43 Resp: 222335
Ion Ratio Lower Upper
43 100
58 29.6 22.9 34.3





#16

1,3-Butadiene

Concen: 0.805 ppbv

RT: 2.996 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL040620.D

Acq: 10 Aug 2023 00:41

Instrument :

MSVOA_L

ClientSampleId :

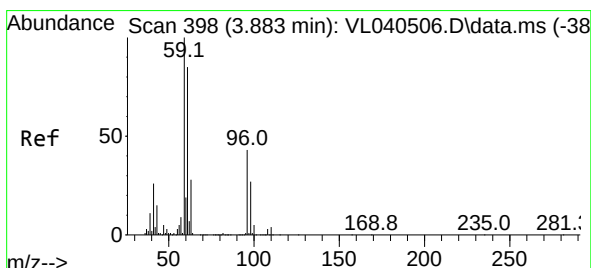
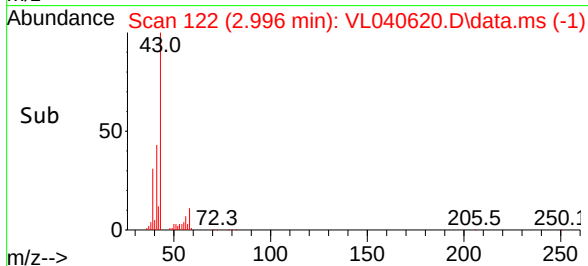
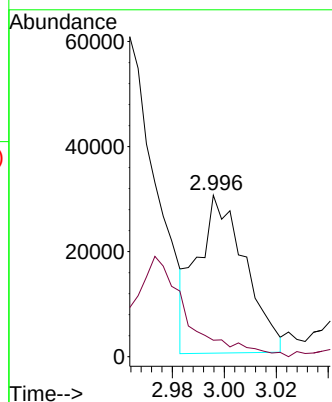
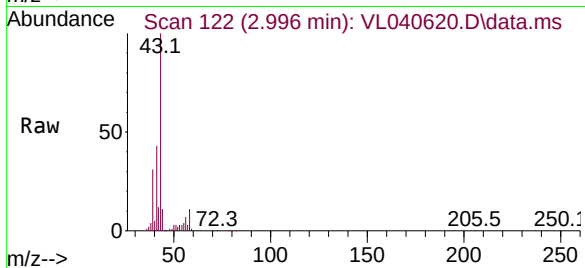
SV-2DL

Tgt Ion: 39 Resp: 38303

Ion Ratio Lower Upper

39 100

54 0.0 66.6 100.0#



#17

tert-Butyl alcohol

Concen: 0.298 ppbv

RT: 3.896 min Scan# 402

Delta R.T. 0.013 min

Lab File: VL040620.D

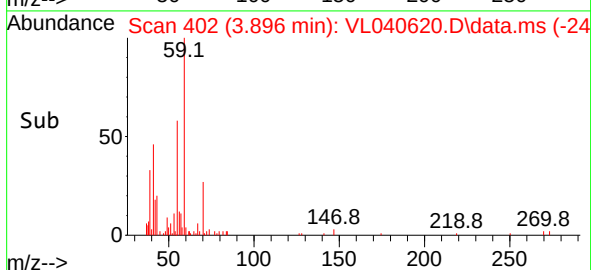
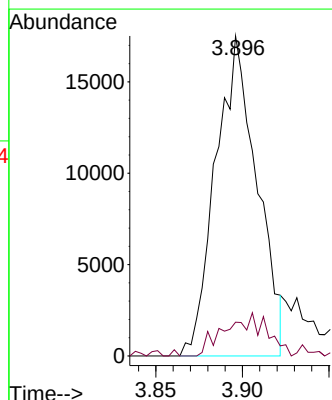
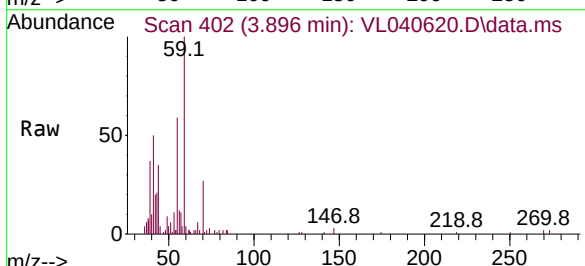
Acq: 10 Aug 2023 00:41

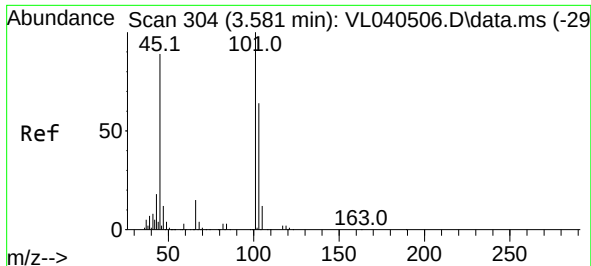
Tgt Ion: 59 Resp: 29041

Ion Ratio Lower Upper

59 100

57 15.2 8.7 13.1#





#19

Isopropyl Alcohol

Concen: 2.159 ppbv

RT: 3.610 min Scan# 313

Delta R.T. 0.029 min

Lab File: VL040620.D

Acq: 10 Aug 2023 00:41

Instrument :

MSVOA_L

ClientSampleId :

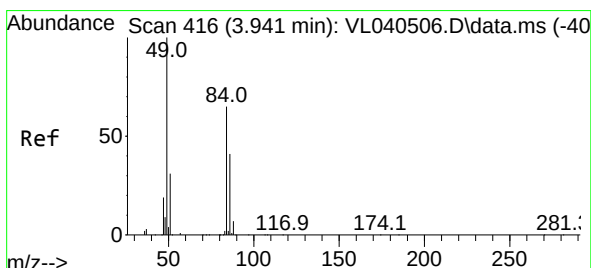
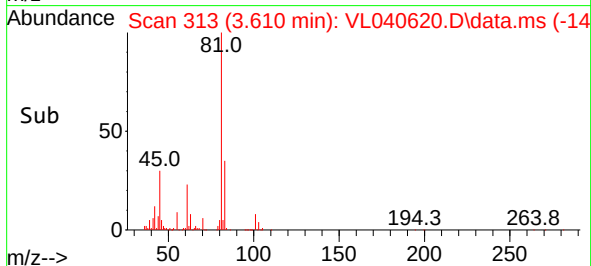
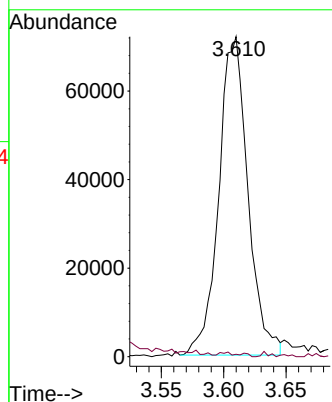
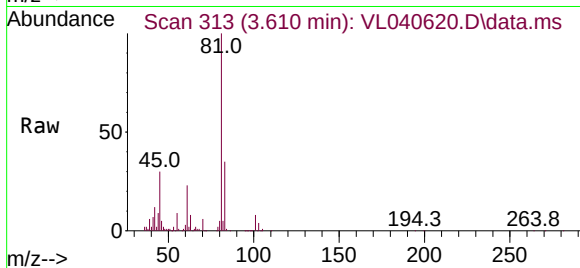
SV-2DL

Tgt Ion: 45 Resp: 116917

Ion Ratio Lower Upper

45 100

58 56.2 1.1 1.7#



#20

Methylene Chloride

Concen: 14.119 ppbv

RT: 3.928 min Scan# 412

Delta R.T. -0.013 min

Lab File: VL040620.D

Acq: 10 Aug 2023 00:41

Tgt Ion: 84 Resp: 566542

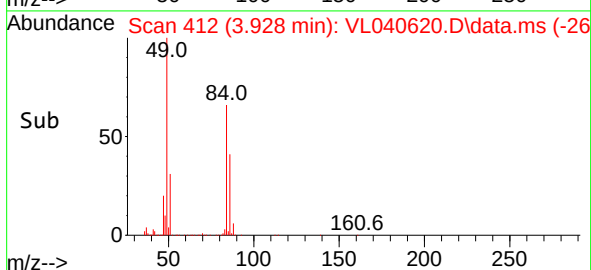
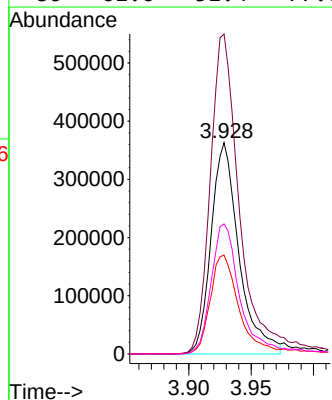
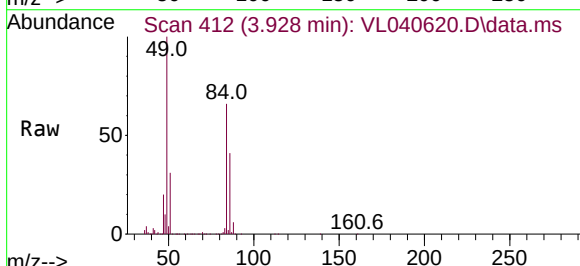
Ion Ratio Lower Upper

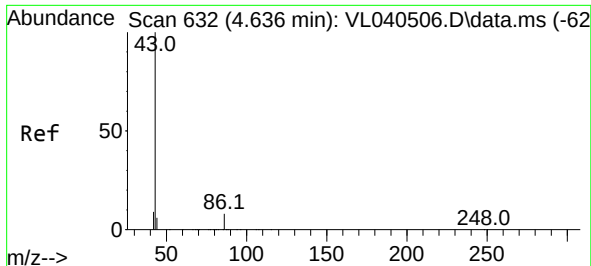
84 100

49 151.3 123.4 185.2

51 46.5 38.3 57.5

86 61.6 51.4 77.0

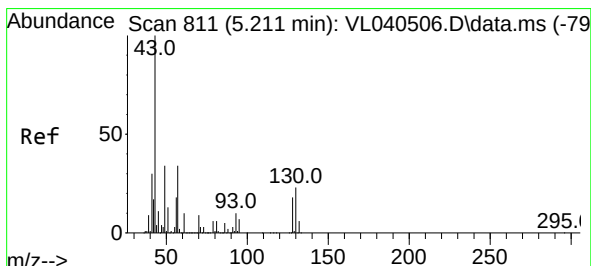
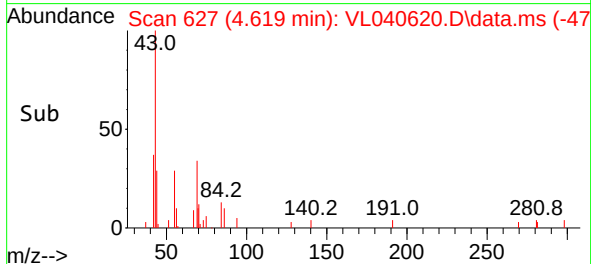
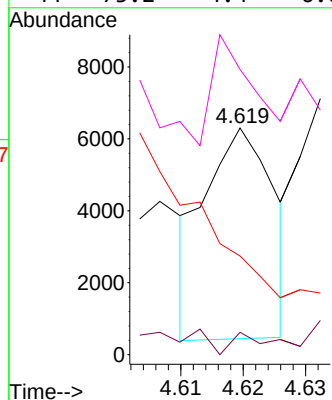
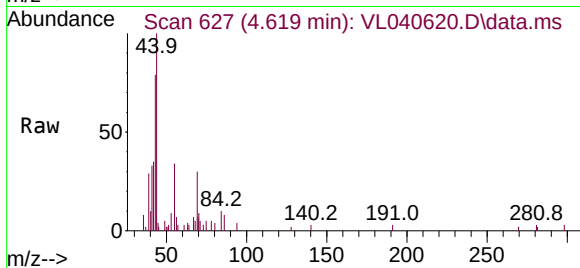




#23
 Vinyl Acetate
 Concen: 0.050 ppbv
 RT: 4.619 min Scan# 61
 Delta R.T. -0.016 min
 Lab File: VL040620.D
 Acq: 10 Aug 2023 00:41

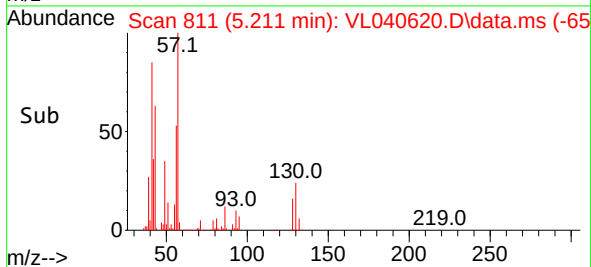
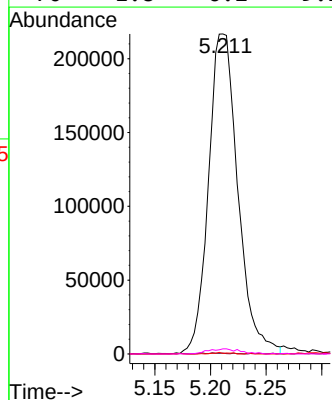
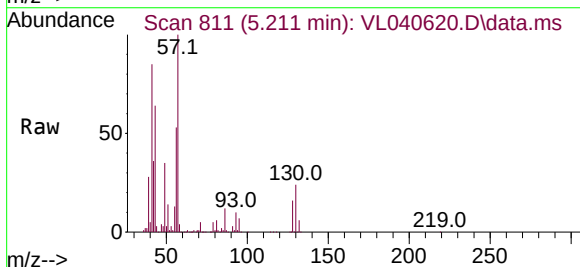
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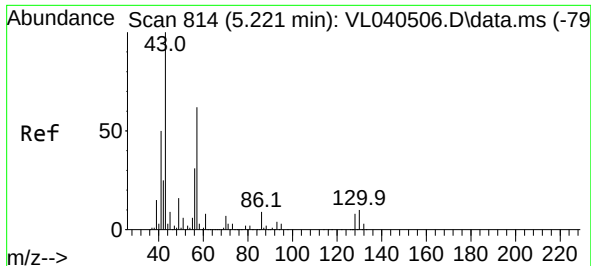
Tgt Ion:	43	Resp:	4467
Ion	Ratio	Lower	Upper
43	100		
86	11.3	5.6	8.4#
42	47.6	7.4	11.2#
44	73.2	4.4	6.6#



#25
 Ethyl Acetate
 Concen: 2.209 ppbv
 RT: 5.211 min Scan# 811
 Delta R.T. -0.000 min
 Lab File: VL040620.D
 Acq: 10 Aug 2023 00:41

Tgt Ion:	43	Resp:	396762
Ion	Ratio	Lower	Upper
43	100		
45	0.4	8.2	12.4#
61	0.3	8.3	12.5#
70	1.8	6.2	9.2#

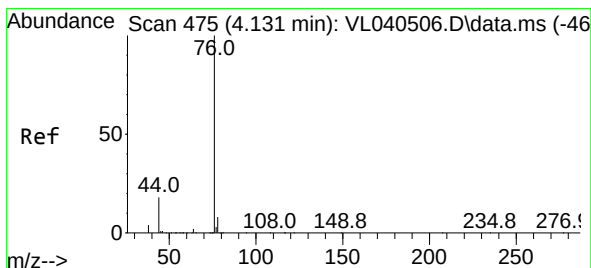
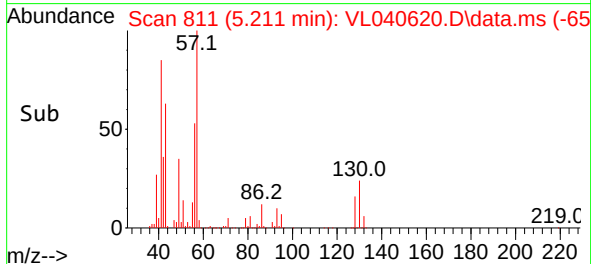
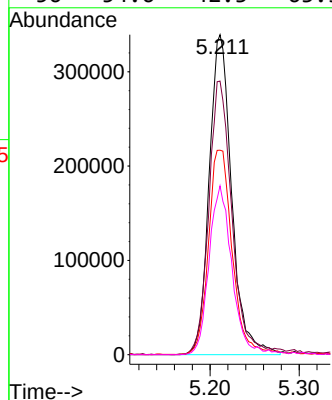
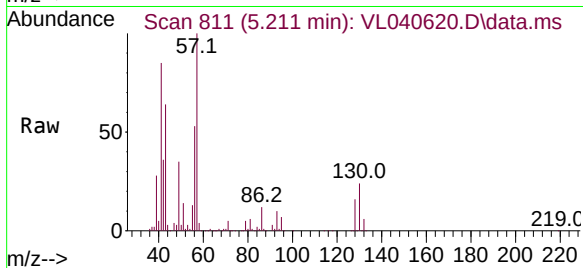




#26
Hexane
Concen: 7.131 ppbv
RT: 5.211 min Scan# 814
Delta R.T. -0.010 min
Lab File: VL040620.D
Acq: 10 Aug 2023 00:41

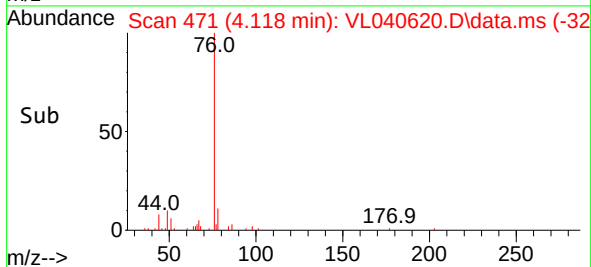
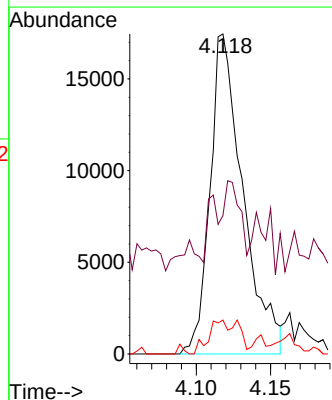
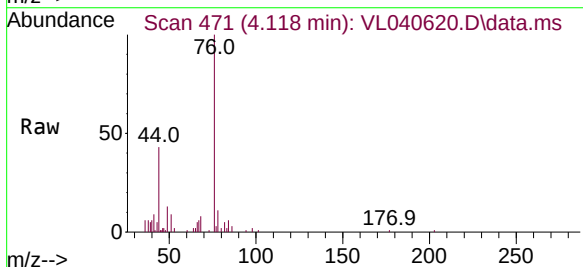
Instrument :
MSVOA_L
ClientSampleId :
SV-2DL

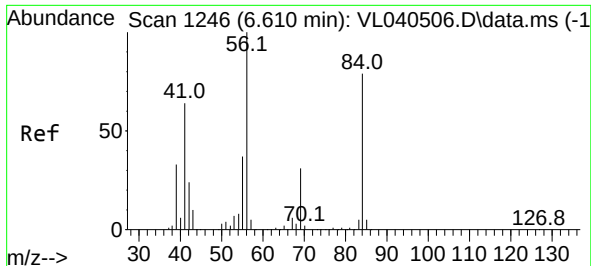
Tgt Ion: 57 Resp: 594943
Ion Ratio Lower Upper
57 100
41 89.7 69.5 104.3
43 68.1 177.1 265.7#
56 54.6 42.3 63.5



#27
Carbon Disulfide
Concen: 0.274 ppbv
RT: 4.118 min Scan# 471
Delta R.T. -0.013 min
Lab File: VL040620.D
Acq: 10 Aug 2023 00:41

Tgt Ion: 76 Resp: 26856
Ion Ratio Lower Upper
76 100
44 38.0 15.1 22.7#
78 10.1 7.5 11.3

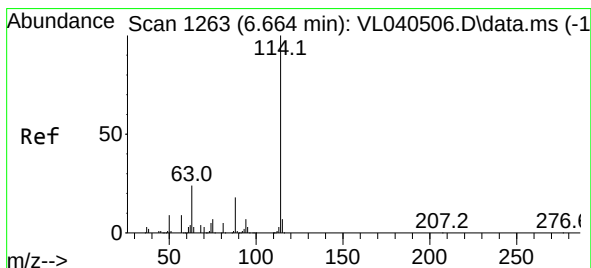
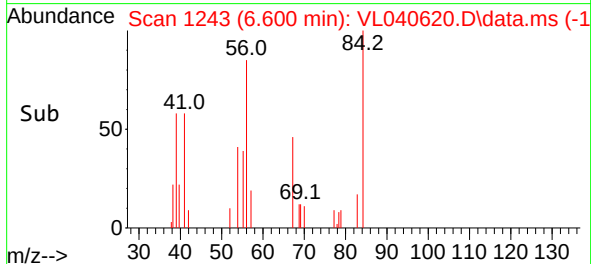
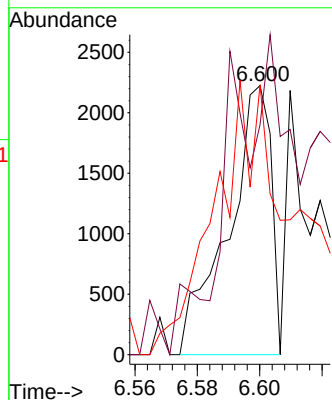
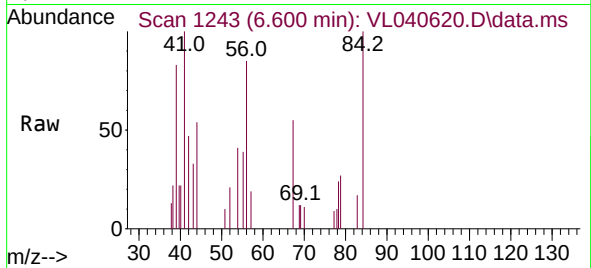




#30
Cyclohexane
Concen: 0.031 ppbv
RT: 6.600 min Scan# 11
Delta R.T. -0.010 min
Lab File: VL040620.D
Acq: 10 Aug 2023 00:41

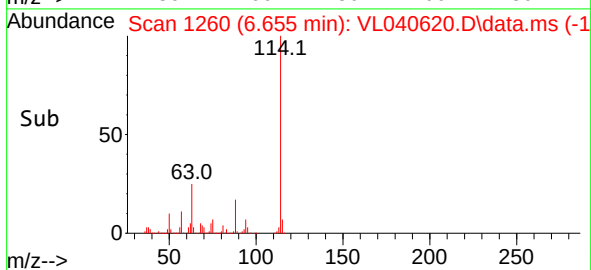
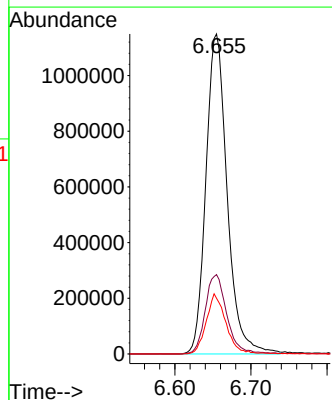
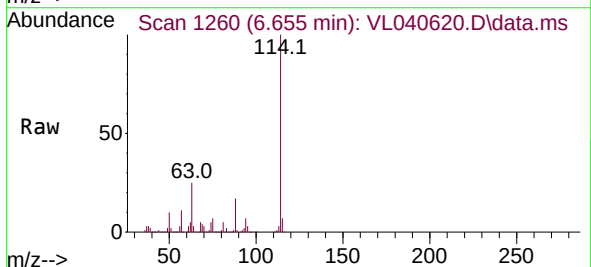
Instrument :
MSVOA_L
ClientSampleId :
SV-2DL

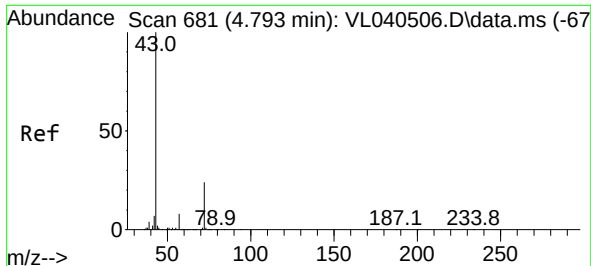
Tgt Ion: 84 Resp: 2135
Ion Ratio Lower Upper
84 100
56 0.0 108.7 163.1#
41 139.2 64.5 96.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.655 min Scan# 1260
Delta R.T. -0.010 min
Lab File: VL040620.D
Acq: 10 Aug 2023 00:41

Tgt Ion: 114 Resp: 2234358
Ion Ratio Lower Upper
114 100
63 25.4 19.6 29.4
88 17.6 14.2 21.2





#34

2-Butanone

Concen: 0.201 ppbv

RT: 4.796 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL040620.D

Acq: 10 Aug 2023 00:41

Instrument :

MSVOA_L

ClientSampleId :

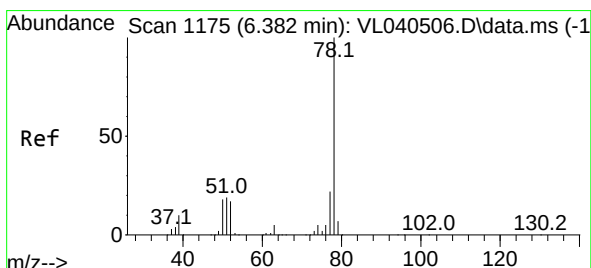
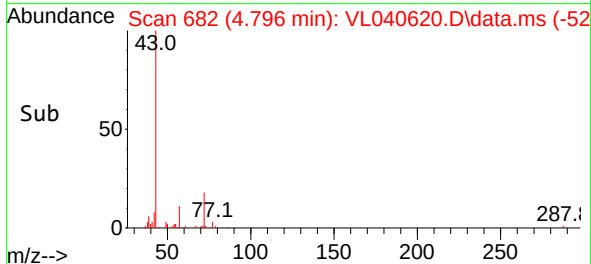
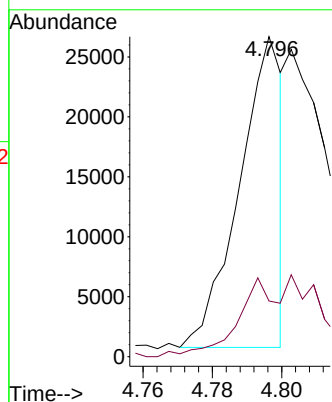
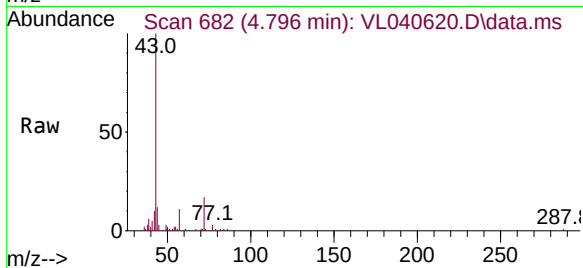
SV-2DL

Tgt Ion: 43 Resp: 22180

Ion Ratio Lower Upper

43 100

72 0.0 19.1 28.7#



#36

Benzene

Concen: 0.137 ppbv

RT: 6.369 min Scan# 1171

Delta R.T. -0.013 min

Lab File: VL040620.D

Acq: 10 Aug 2023 00:41

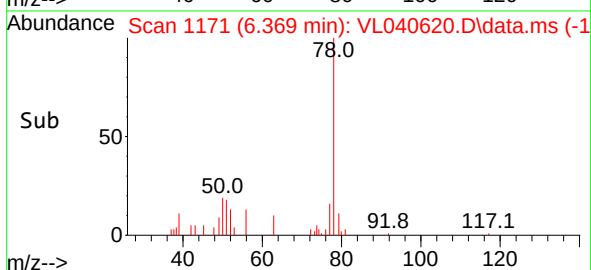
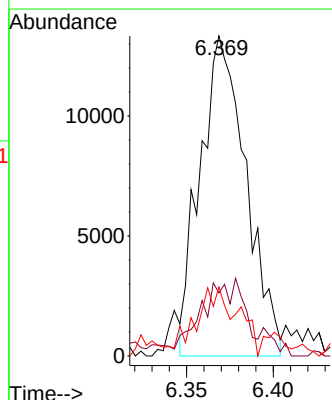
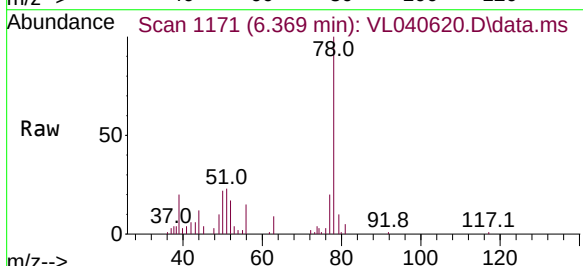
Tgt Ion: 78 Resp: 24565

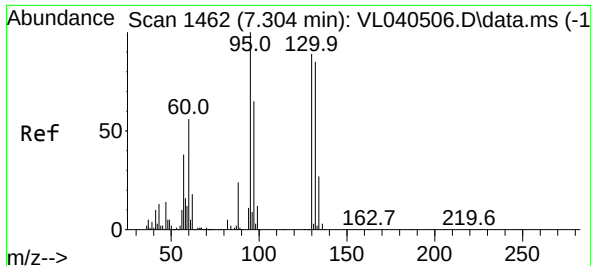
Ion Ratio Lower Upper

78 100

77 14.0 17.4 26.0#

50 16.5 14.4 21.6

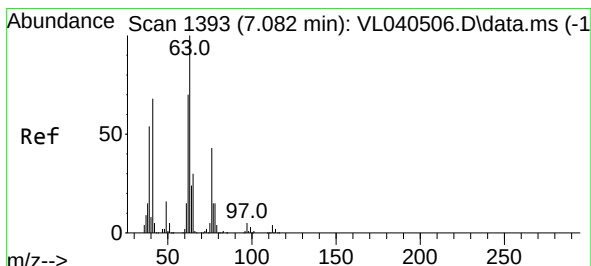
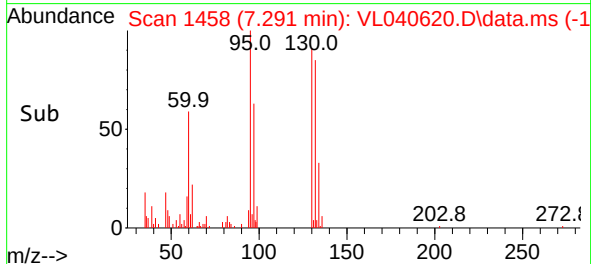
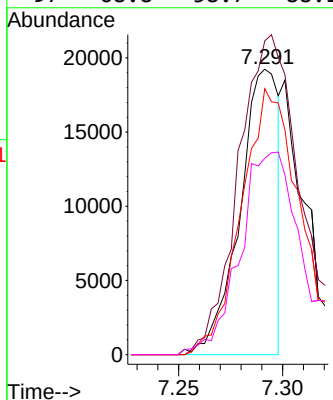
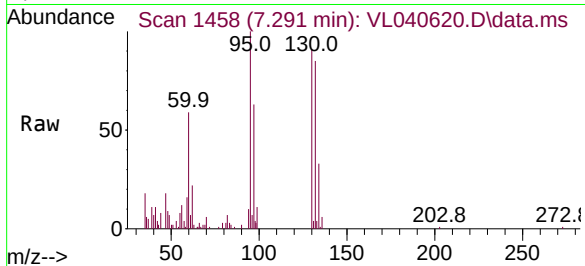




#38
 Trichloroethene
 Concen: 0.366 ppbv
 RT: 7.291 min Scan# 1462
 Delta R.T. -0.013 min
 Lab File: VL040620.D
 Acq: 10 Aug 2023 00:41

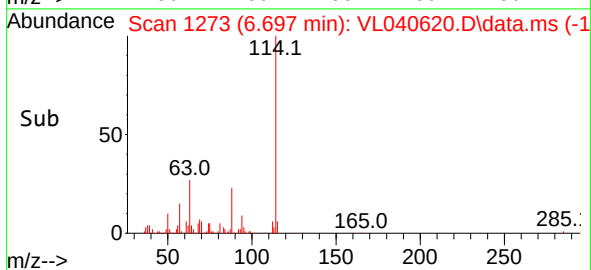
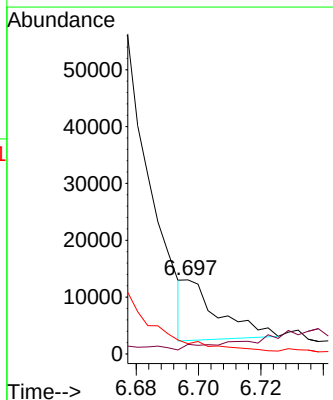
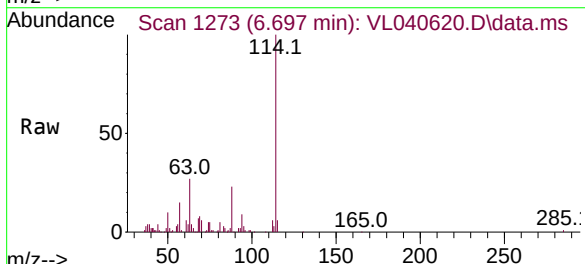
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-2DL

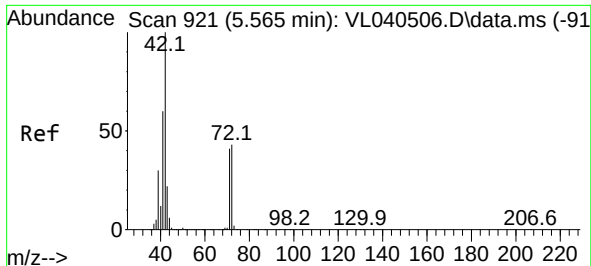
Tgt Ion:	130	Resp:	24905
Ion	Ratio	Lower	Upper
130	100		
95	109.9	90.2	135.2
132	93.1	76.3	114.5
97	68.8	58.7	88.1



#39
 1,2-Dichloropropane
 Concen: 0.119 ppbv
 RT: 6.697 min Scan# 1273
 Delta R.T. -0.386 min
 Lab File: VL040620.D
 Acq: 10 Aug 2023 00:41

Tgt Ion:	63	Resp:	8217
Ion	Ratio	Lower	Upper
63	100		
41	10.0	54.3	81.5#
62	13.0	55.6	83.4#

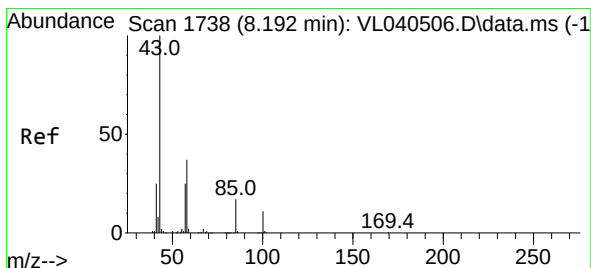
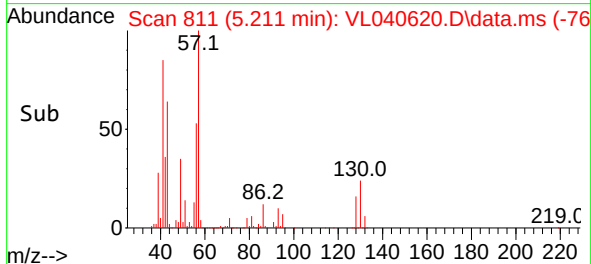
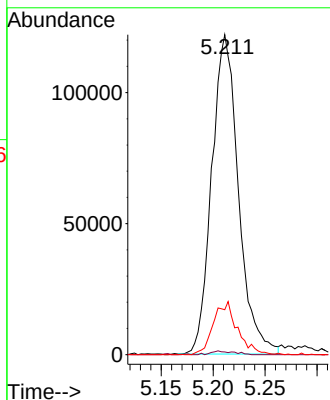
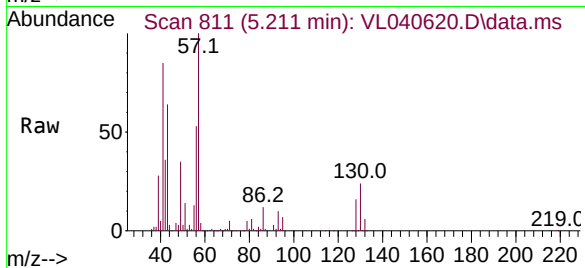




#41
Tetrahydrofuran
Concen: 3.386 ppbv
RT: 5.211 min Scan# 81
Delta R.T. -0.354 min
Lab File: VL040620.D
Acq: 10 Aug 2023 00:41

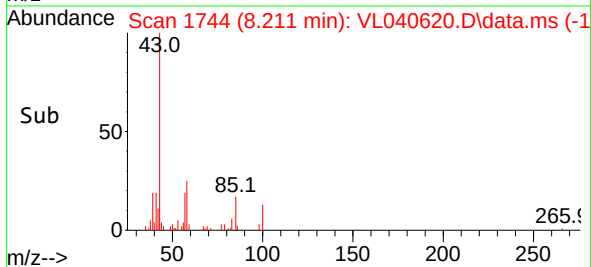
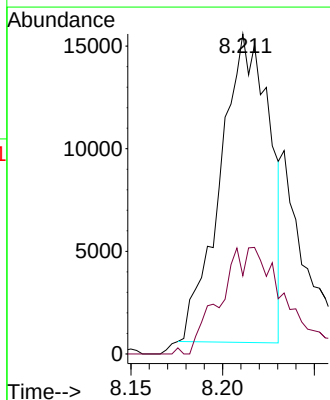
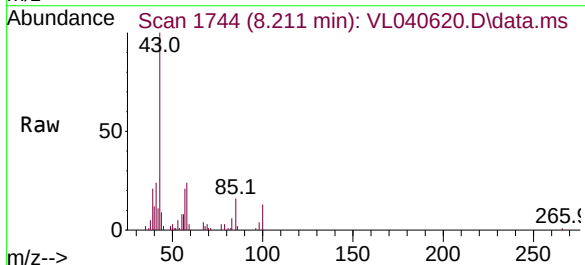
Instrument :
MSVOA_L
ClientSampleId :
SV-2DL

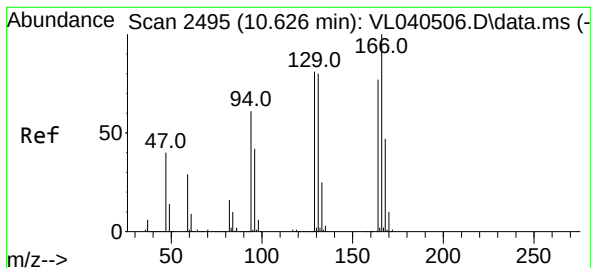
Tgt Ion: 42 Resp: 218122
Ion Ratio Lower Upper
42 100
72 1.0 33.8 50.8#
71 15.1 33.0 49.6#



#50
4-Methyl-2-Pentanone
Concen: 0.175 ppbv
RT: 8.211 min Scan# 1744
Delta R.T. 0.019 min
Lab File: VL040620.D
Acq: 10 Aug 2023 00:41

Tgt Ion: 43 Resp: 28140
Ion Ratio Lower Upper
43 100
58 48.4 30.2 45.2#





#52

Tetrachloroethene

Concen: 14.734 ppbv

RT: 10.619 min Scan# 2493

Delta R.T. -0.006 min

Lab File: VL040620.D

Acq: 10 Aug 2023 00:41

Instrument :

MSVOA_L

ClientSampleId :

SV-2DL

Tgt Ion:164 Resp: 857804

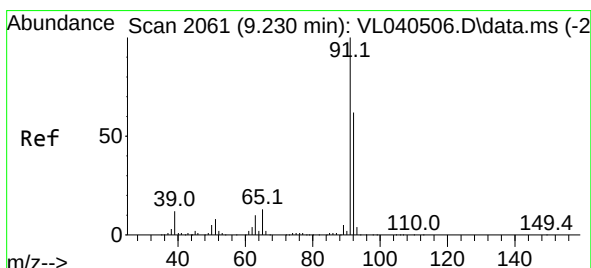
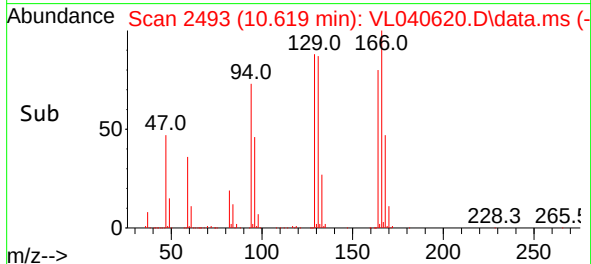
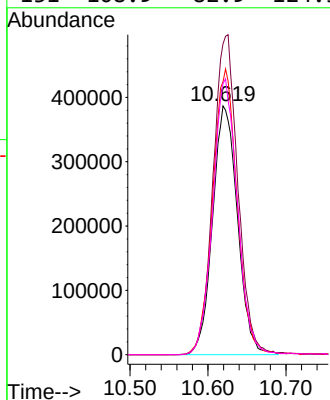
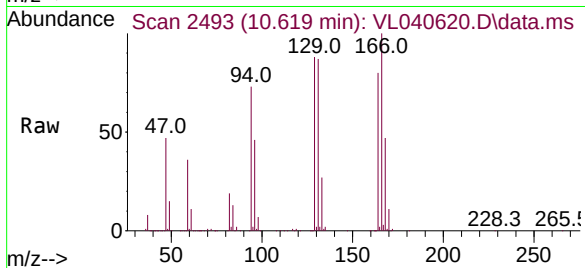
Ion Ratio Lower Upper

164 100

166 124.9 103.9 155.9

129 109.6 84.6 126.8

131 108.9 82.9 124.3



#53

Toluene

Concen: 0.107 ppbv

RT: 9.233 min Scan# 2062

Delta R.T. 0.003 min

Lab File: VL040620.D

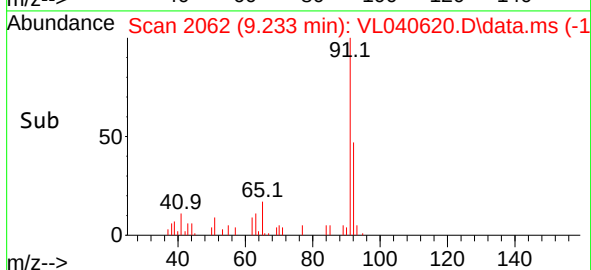
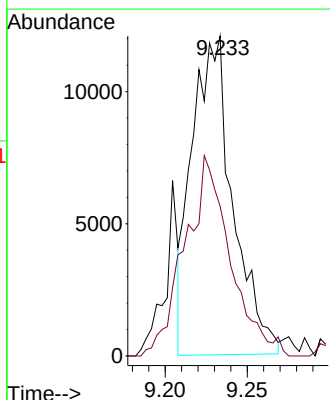
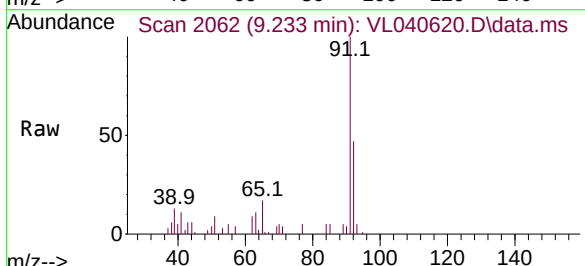
Acq: 10 Aug 2023 00:41

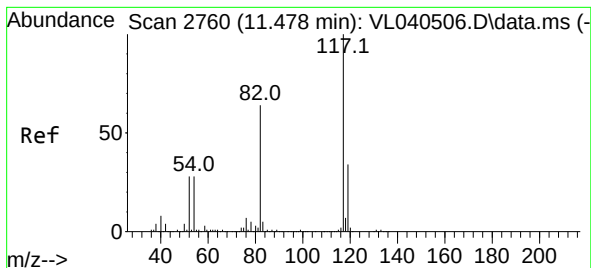
Tgt Ion: 91 Resp: 20918

Ion Ratio Lower Upper

91 100

92 69.4 49.1 73.7

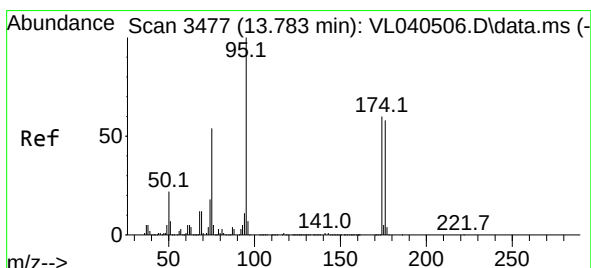
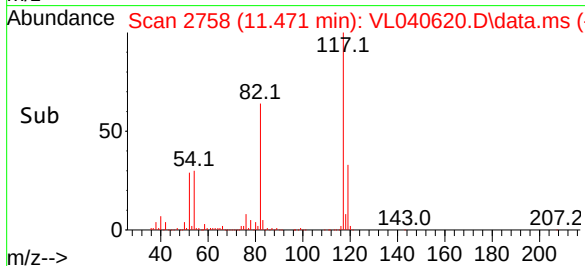
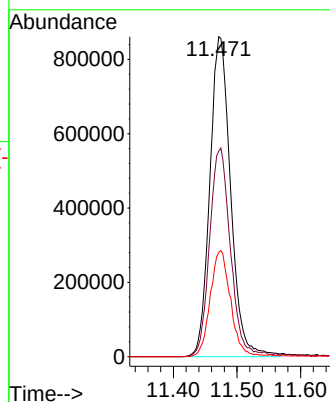
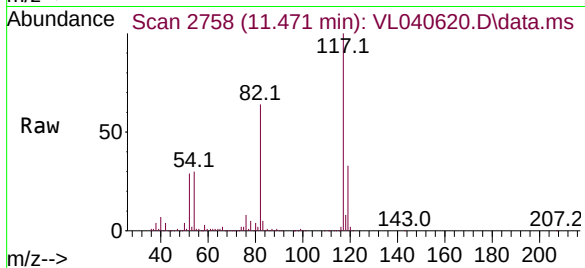




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL040620.D
Acq: 10 Aug 2023 00:41

Instrument :
MSVOA_L
ClientSampleId :
SV-2DL

Tgt Ion:117 Resp: 1957227
Ion Ratio Lower Upper
117 100
82 66.3 50.2 75.4
119 32.6 26.9 40.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.614 ppbv
RT: 13.786 min Scan# 3478
Delta R.T. 0.003 min
Lab File: VL040620.D
Acq: 10 Aug 2023 00:41

Tgt Ion: 95 Resp: 1489168
Ion Ratio Lower Upper
95 100
174 62.0 50.6 75.8
175 4.4 3.7 5.5

