

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121322\Reviewed data\
 Data File : VL040009.D
 Acq On : 13 Dec 2022 16:58
 Operator : SY/MD
 Sample : N5969-01DL 200X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-1DL

Quant Time: Dec 21 15:04:24 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Dec 02 23:21:36 2022
 Response via : Initial Calibration

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

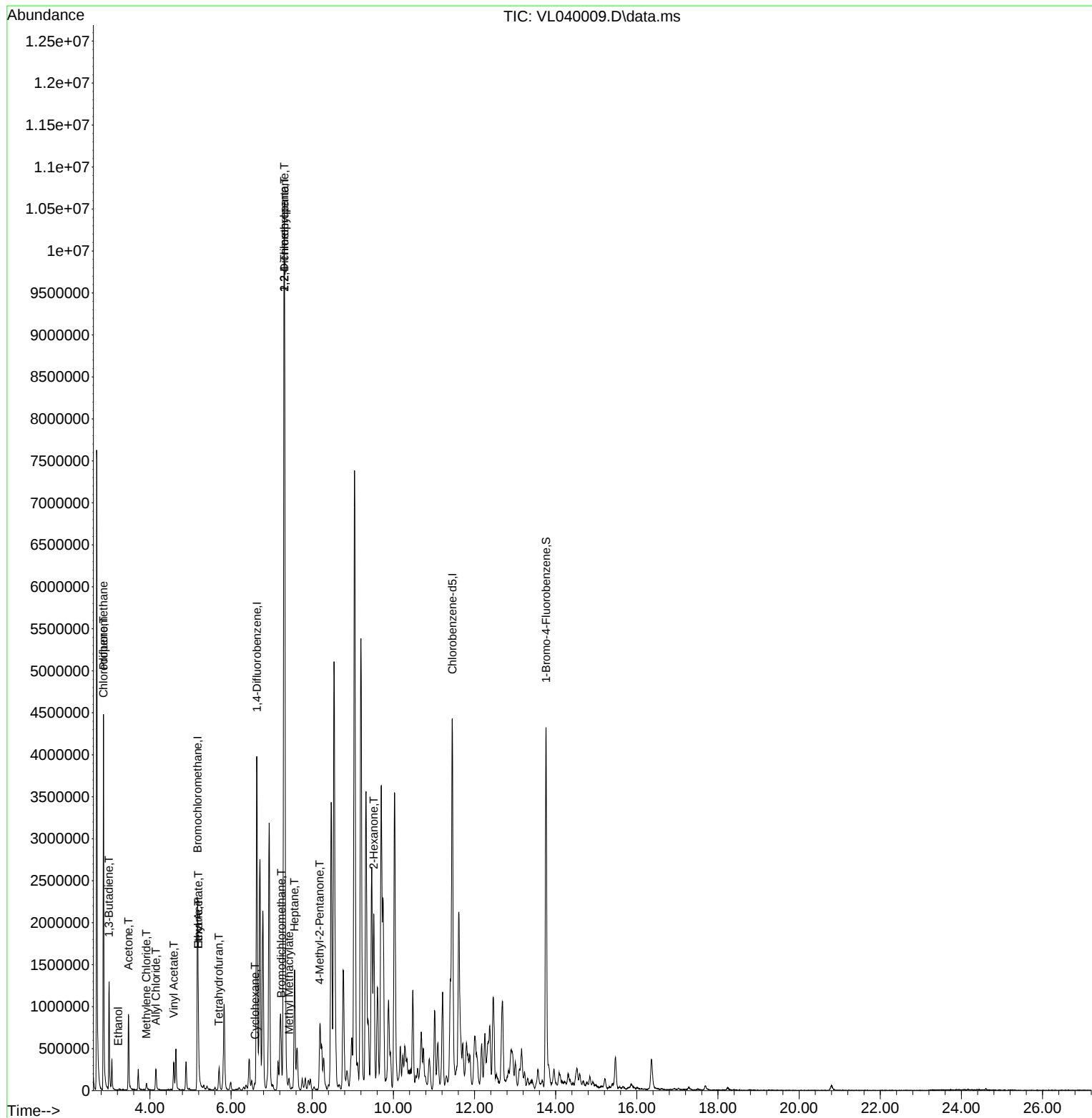
Internal Standards						
1) Bromochloromethane	5.176	49	1117462	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.635	114	3158054	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.452	117	2880914	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	2186708	9.937	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.400%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	2.857	51	27702	0.180	ppbv #	60
9) Propene	2.854	41	1276888	17.579	ppbv	93
10) Heptane	7.561	43	626779	3.576	ppbv	96
13) Ethanol	3.217	45	141	0.025	ppbv #	38
15) Acetone	3.471	43	312920	2.111	ppbv #	60
16) 1,3-Butadiene	2.992	39	144770	1.960	ppbv #	10
20) Methylene Chloride	3.915	84	25810	0.359	ppbv	94
21) Allyl Chloride	4.147	41	59908	0.583	ppbv #	57
23) Vinyl Acetate	4.587	43	174128	2.860	ppbv #	5
25) Ethyl Acetate	5.192	43	84500	0.311	ppbv #	76
26) Hexane	5.192	57	127494	1.072	ppbv #	37
30) Cyclohexane	6.587	84	8313	0.071	ppbv #	1
39) 1,2-Dichloropropane	7.311	63	14015	0.134	ppbv #	1
41) Tetrahydrofuran	5.700	42	2965	0.028	ppbv #	64
42) Bromodichloromethane	7.237	83	33244	0.167	ppbv #	24
43) Methyl Methacrylate	7.429	69	20322	0.193	ppbv #	1
44) 2,2,4-Trimethylpentane	7.311	57	11035228	24.625	ppbv	93
50) 4-Methyl-2-Pentanone	8.185	43	41357	0.153	ppbv #	63
51) 2-Hexanone	9.516	43	1279448	6.090	ppbv #	27

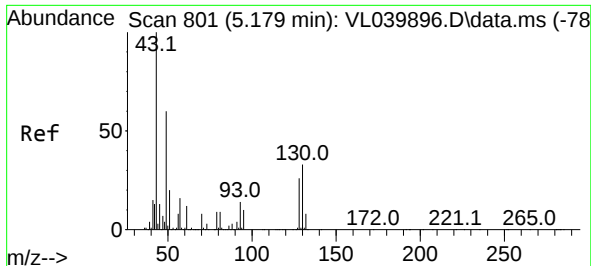
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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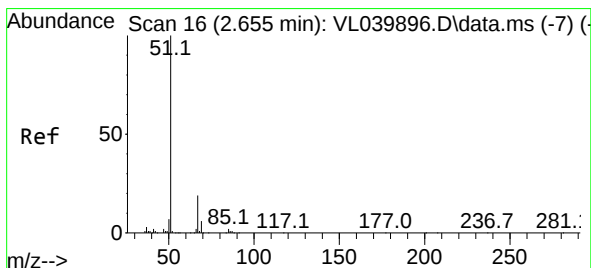
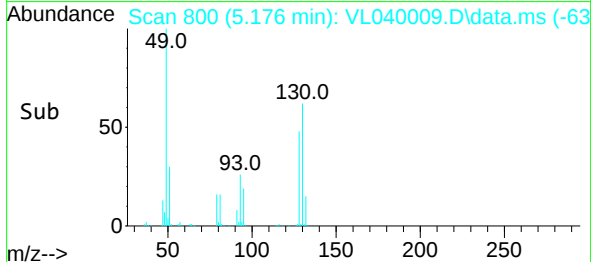
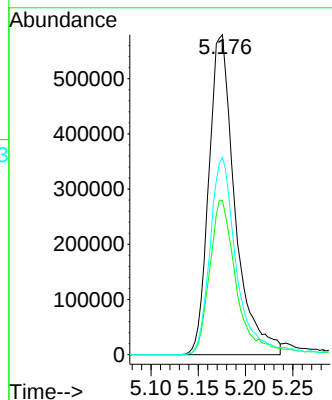
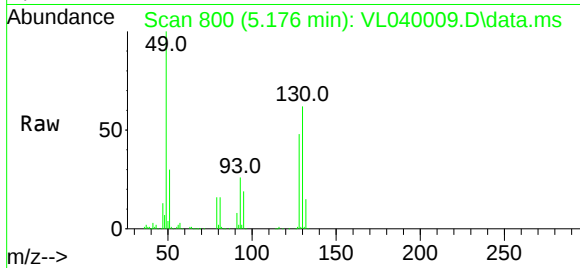




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.176 min Scan# 80
Delta R.T. 0.020 min
Lab File: VL040009.D
Acq: 13 Dec 2022 16:58

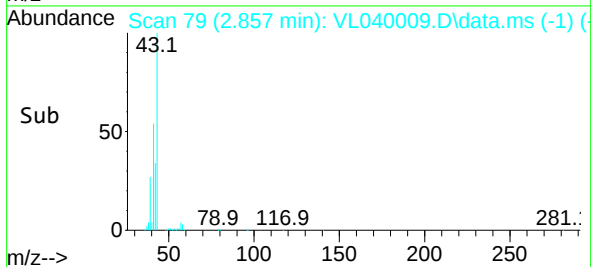
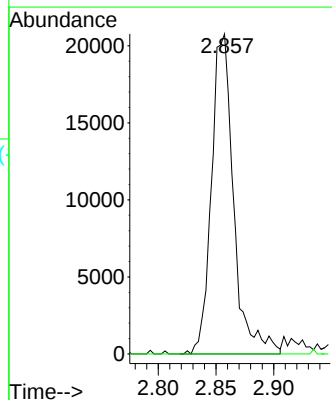
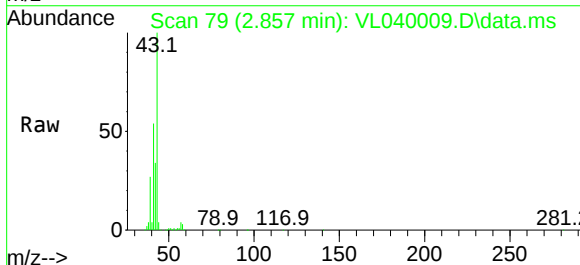
Instrument :
MSVOA_L
ClientSampleId :
SG-1DL

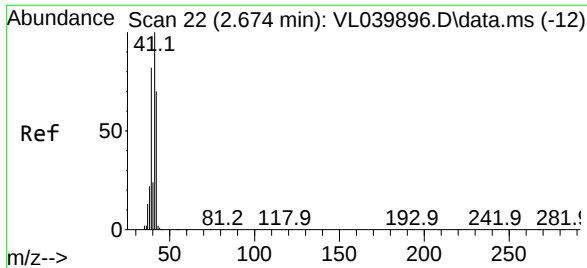
Tgt Ion: 49 Resp: 1117462
Ion Ratio Lower Upper
49 100
128 50.9 22.1 66.3
130 64.7 27.7 83.1



#3
Chlorodifluoromethane
Concen: 0.180 ppbv
RT: 2.857 min Scan# 79
Delta R.T. 0.215 min
Lab File: VL040009.D
Acq: 13 Dec 2022 16:58

Tgt Ion: 51 Resp: 27702
Ion Ratio Lower Upper
51 100
67 0.0 14.2 21.4#

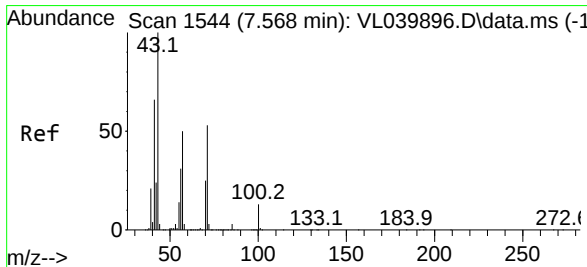
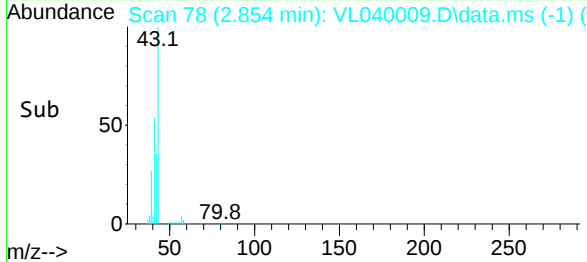
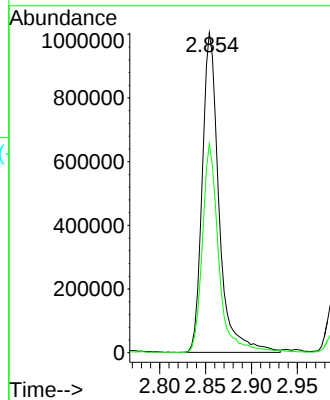
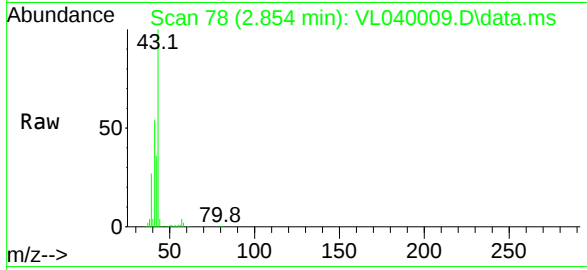




#9
 Propene
 Concen: 17.579 ppbv
 RT: 2.854 min Scan# 71
 Delta R.T. 0.193 min
 Lab File: VL040009.D
 Acq: 13 Dec 2022 16:58

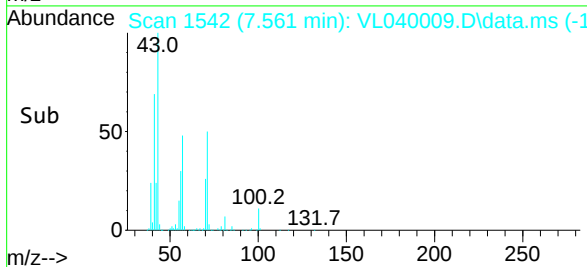
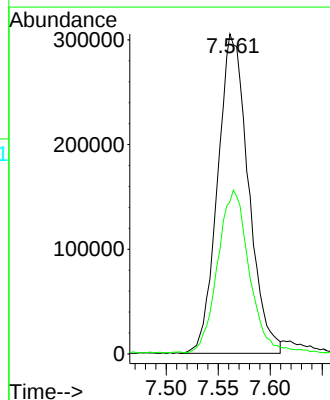
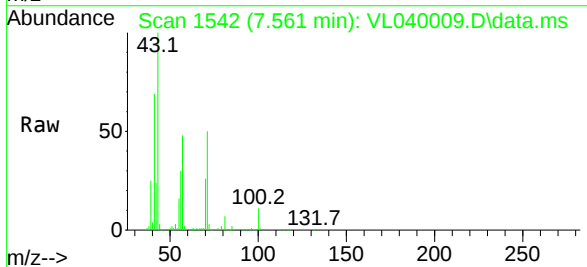
Instrument :
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 ClientSampleId :
 SG-1DL

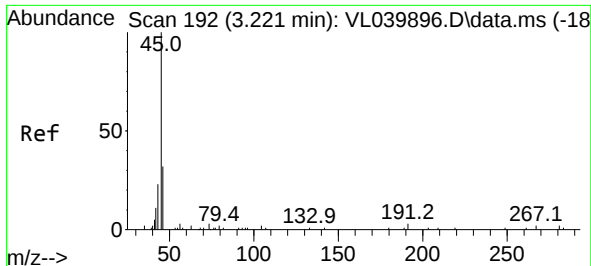
Tgt Ion: 41 Resp: 1276888
 Ion Ratio Lower Upper
 41 100
 42 64.1 55.8 83.6



#10
 Heptane
 Concen: 3.576 ppbv
 RT: 7.561 min Scan# 1542
 Delta R.T. 0.016 min
 Lab File: VL040009.D
 Acq: 13 Dec 2022 16:58

Tgt Ion: 43 Resp: 626779
 Ion Ratio Lower Upper
 43 100
 57 53.5 40.7 61.1

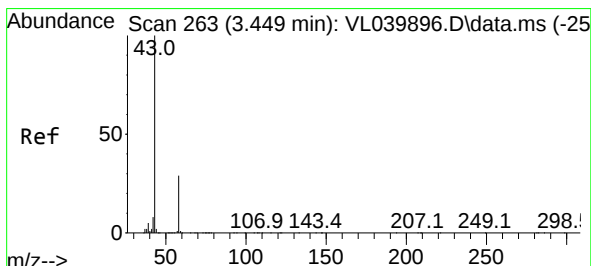
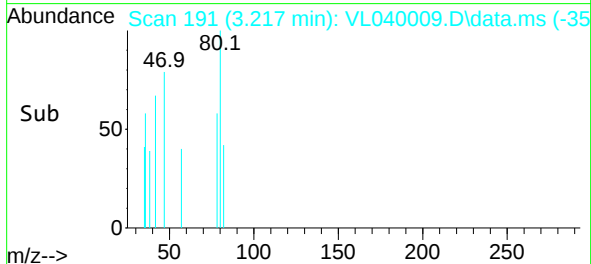
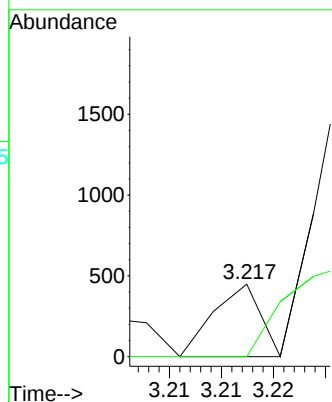
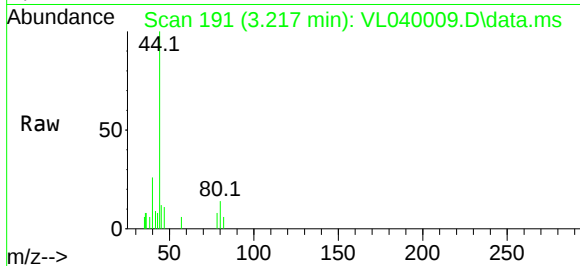




#13
Ethanol
Concen: 0.025 ppbv
RT: 3.217 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL040009.D
Acq: 13 Dec 2022 16:58

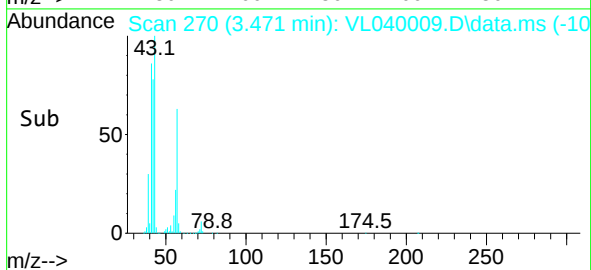
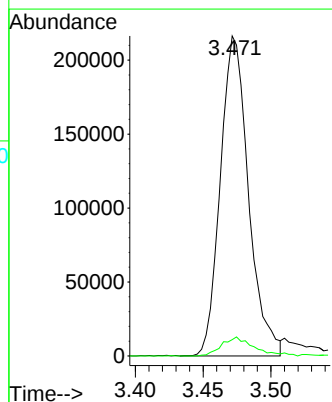
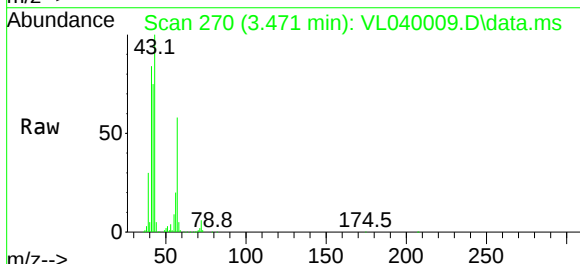
Instrument :
MSVOA_L
ClientSampleId :
SG-1DL

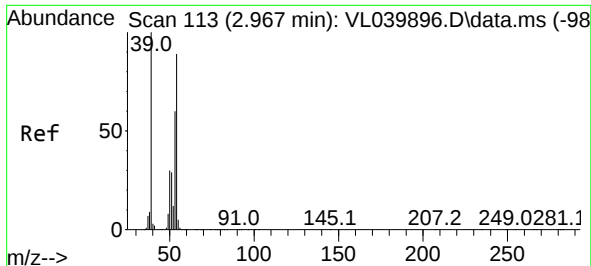
Tgt Ion: 45 Resp: 141
Ion Ratio Lower Upper
45 100
46 0.0 14.6 58.2#



#15
Acetone
Concen: 2.111 ppbv
RT: 3.471 min Scan# 270
Delta R.T. 0.039 min
Lab File: VL040009.D
Acq: 13 Dec 2022 16:58

Tgt Ion: 43 Resp: 312920
Ion Ratio Lower Upper
43 100
58 7.4 22.9 34.3#

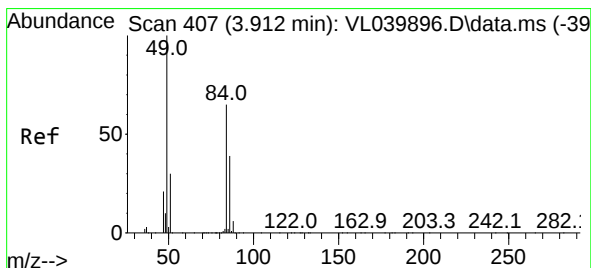
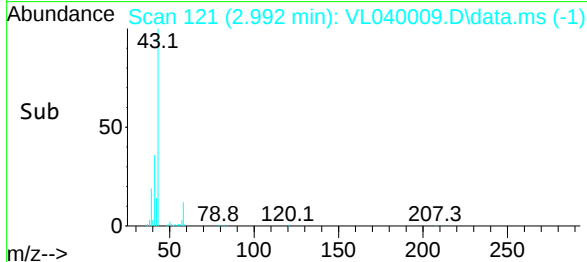
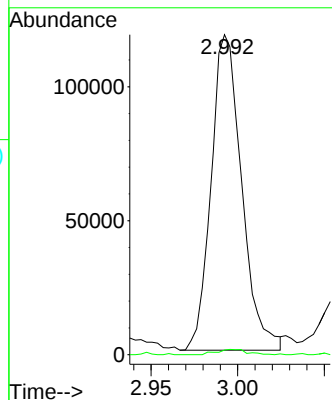
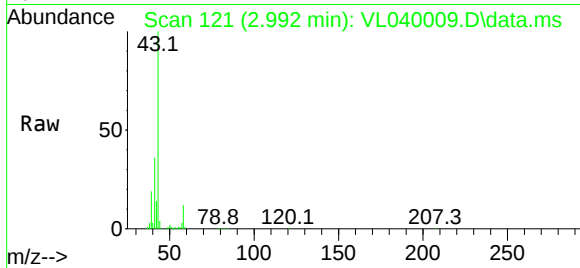




#16
1,3-Butadiene
Concen: 1.960 ppbv
RT: 2.992 min Scan# 113
Delta R.T. 0.042 min
Lab File: VL040009.D
Acq: 13 Dec 2022 16:58

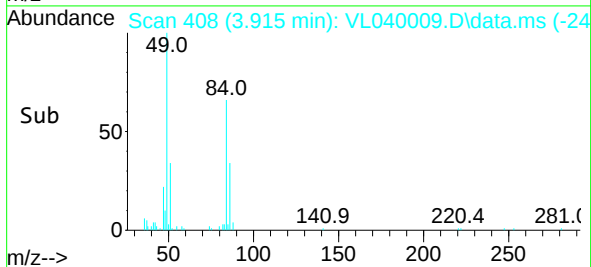
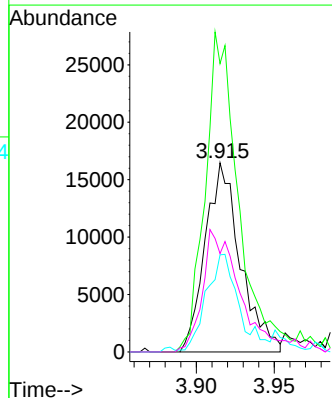
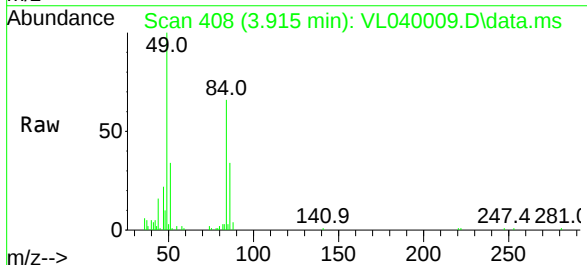
Instrument :
MSVOA_L
ClientSampleId :
SG-1DL

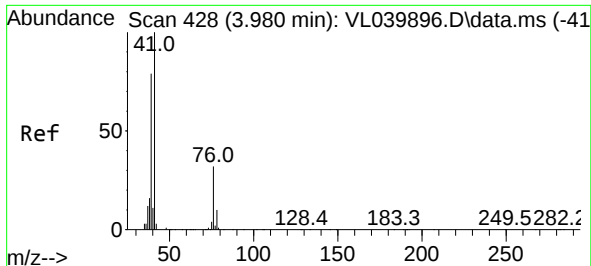
Tgt Ion: 39 Resp: 144770
Ion Ratio Lower Upper
39 100
54 1.7 66.6 99.8#



#20
Methylene Chloride
Concen: 0.359 ppbv
RT: 3.915 min Scan# 408
Delta R.T. 0.019 min
Lab File: VL040009.D
Acq: 13 Dec 2022 16:58

Tgt Ion: 84 Resp: 25810
Ion Ratio Lower Upper
84 100
49 149.8 122.2 183.4
51 50.3 36.3 54.5
86 49.9 47.2 70.8





#21

Allyl Chloride

Concen: 0.583 ppbv

RT: 4.147 min Scan# 41

Delta R.T. 0.186 min

Lab File: VL040009.D

Acq: 13 Dec 2022 16:58

Instrument :

MSVOA_L

ClientSampleId :

SG-1DL

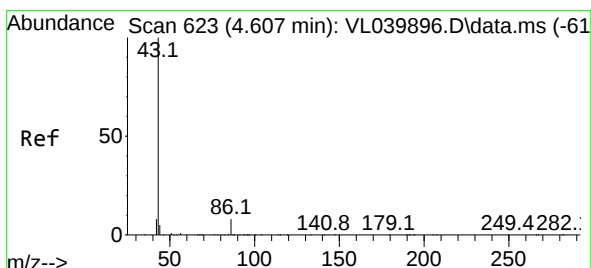
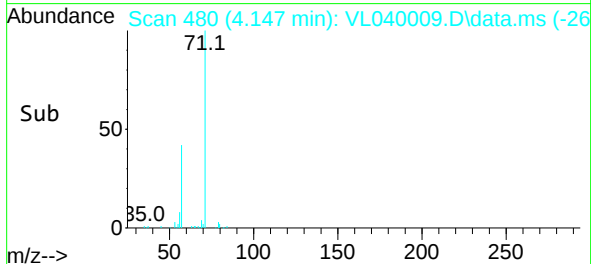
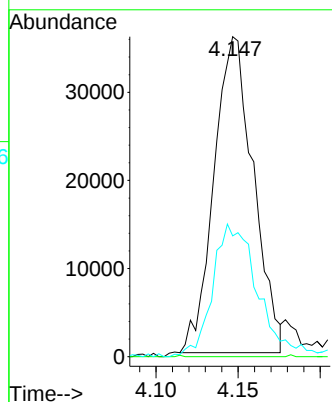
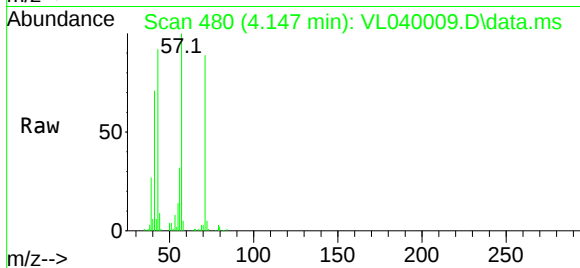
Tgt Ion: 41 Resp: 59908

Ion Ratio Lower Upper

41 100

76 0.0 25.6 38.4#

39 48.2 65.2 97.8#



#23

Vinyl Acetate

Concen: 2.860 ppbv

RT: 4.587 min Scan# 617

Delta R.T. -0.006 min

Lab File: VL040009.D

Acq: 13 Dec 2022 16:58

Tgt Ion: 43 Resp: 174128

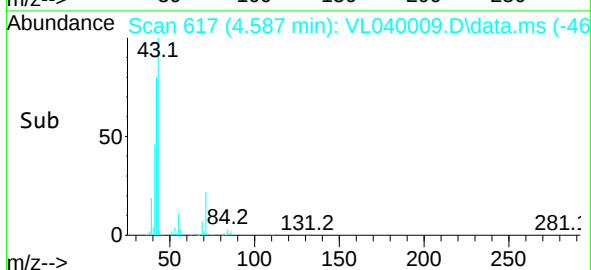
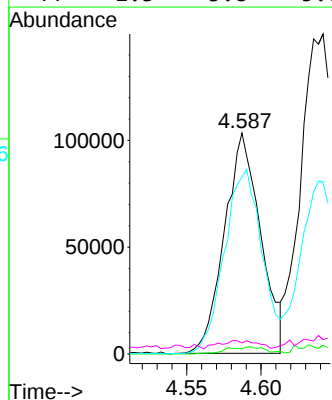
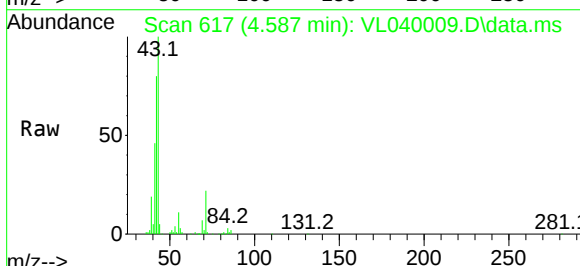
Ion Ratio Lower Upper

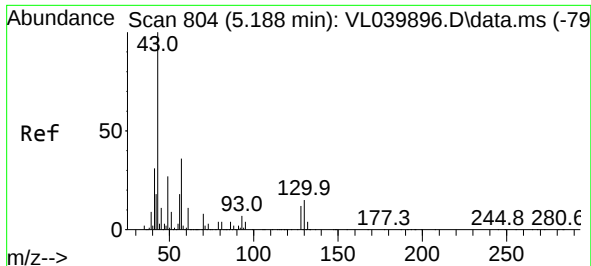
43 100

86 2.4 5.0 7.4#

42 80.0 7.6 11.4#

44 1.3 3.8 5.6#

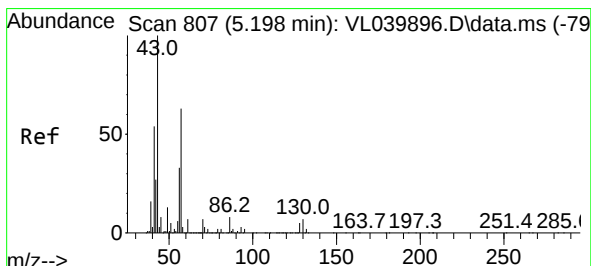
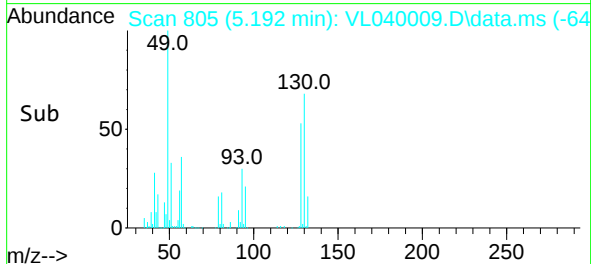
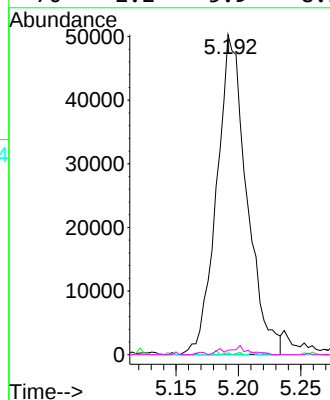
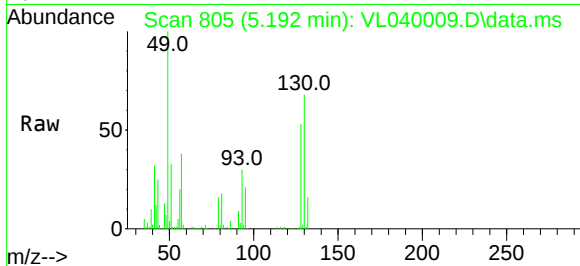




#25
Ethyl Acetate
Concen: 0.311 ppbv
RT: 5.192 min Scan# 805
Delta R.T. 0.023 min
Lab File: VL040009.D
Acq: 13 Dec 2022 16:58

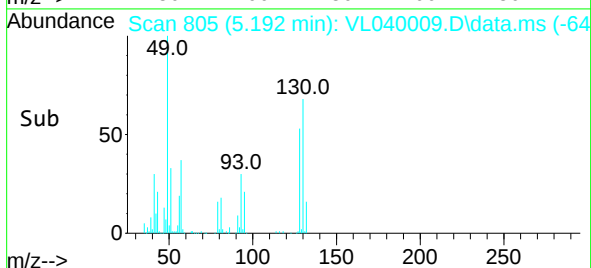
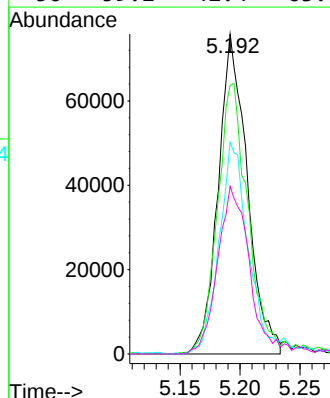
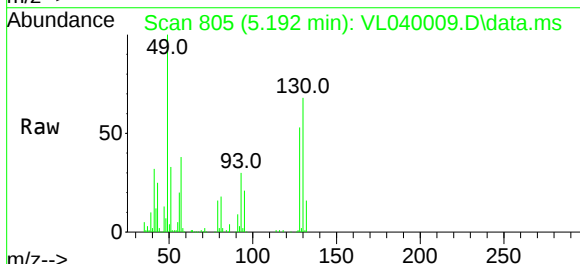
Instrument :
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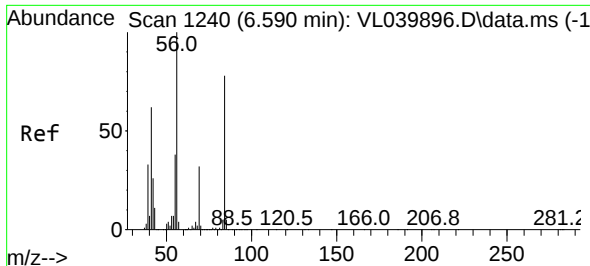
Tgt Ion: 43	Resp: 84500
Ion Ratio	Lower Upper
43 100	
45 0.5	8.4 12.6#
61 0.0	8.5 12.7#
70 2.2	5.9 8.9#



#26
Hexane
Concen: 1.072 ppbv
RT: 5.192 min Scan# 805
Delta R.T. 0.016 min
Lab File: VL040009.D
Acq: 13 Dec 2022 16:58

Tgt Ion: 57	Resp: 127494
Ion Ratio	Lower Upper
57 100	
41 91.5	72.3 108.5
43 69.7	188.7 283.1#
56 59.2	42.4 63.6

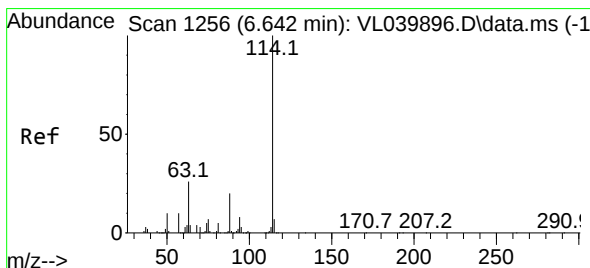
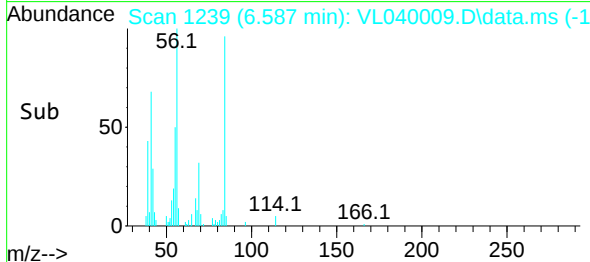
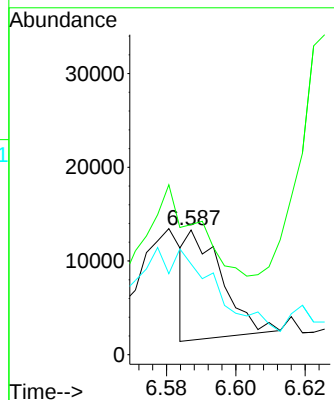
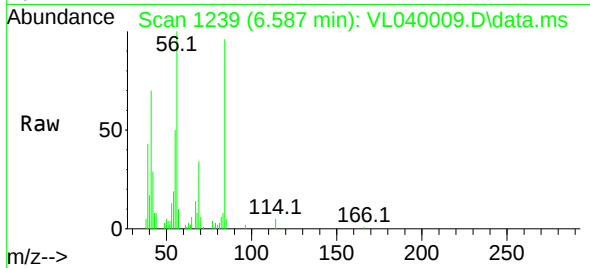




#30
Cyclohexane
Concen: 0.071 ppbv
RT: 6.587 min Scan# 11
Delta R.T. 0.022 min
Lab File: VL040009.D
Acq: 13 Dec 2022 16:58

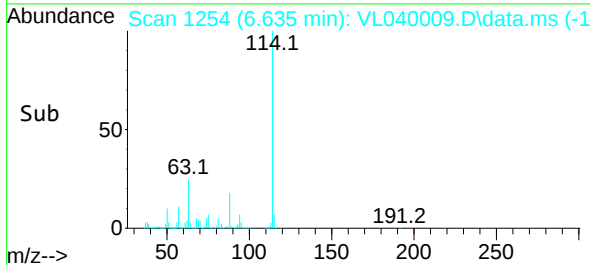
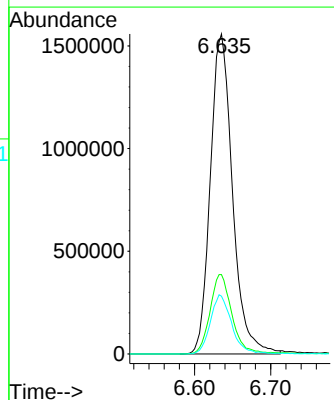
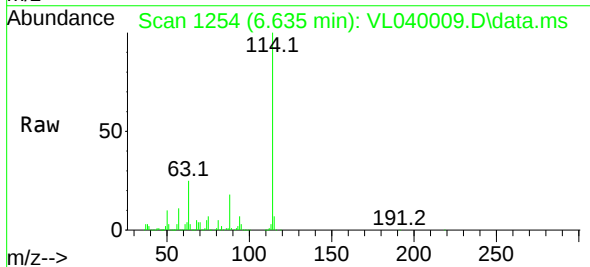
Instrument :
MSVOA_L
ClientSampleId :
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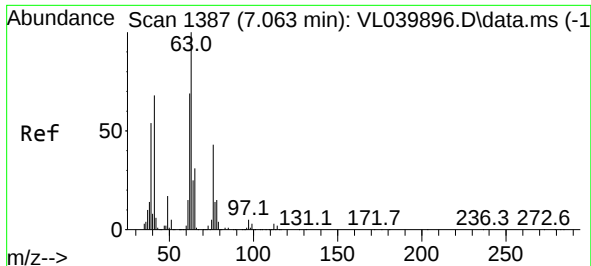
Tgt Ion: 84 Resp: 8313
Ion Ratio Lower Upper
84 100
56 1002.9 112.5 168.7#
41 0.0 67.8 101.8#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.635 min Scan# 1254
Delta R.T. 0.016 min
Lab File: VL040009.D
Acq: 13 Dec 2022 16:58

Tgt Ion: 114 Resp: 3158054
Ion Ratio Lower Upper
114 100
63 24.8 21.4 32.0
88 17.8 15.3 22.9





#39

1,2-Dichloropropane

Concen: 0.134 ppbv

RT: 7.311 min Scan# 14

Delta R.T. 0.276 min

Lab File: VL040009.D

Acq: 13 Dec 2022 16:58

Instrument :

MSVOA_L

ClientSampleId :

SG-1DL

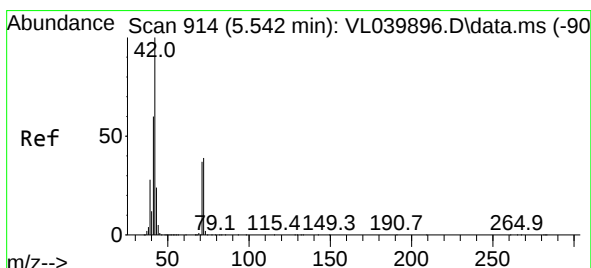
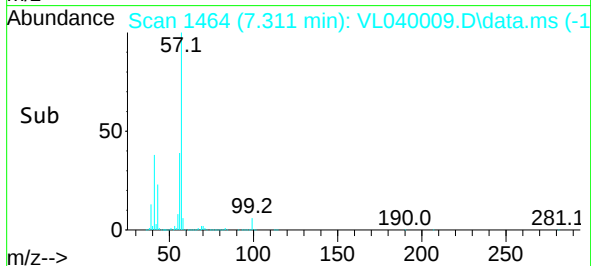
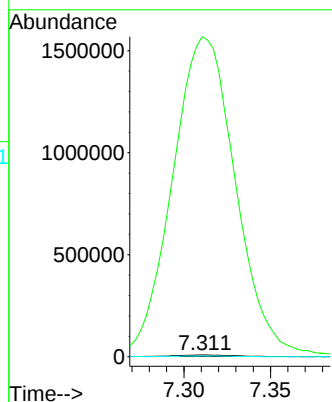
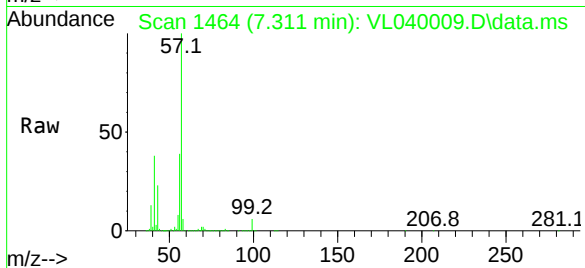
Tgt Ion: 63 Resp: 14015

Ion Ratio Lower Upper

63 100

41 18489.9 54.7 82.1#

62 44.6 55.0 82.6#



#41

Tetrahydrofuran

Concen: 0.028 ppbv

RT: 5.700 min Scan# 963

Delta R.T. 0.180 min

Lab File: VL040009.D

Acq: 13 Dec 2022 16:58

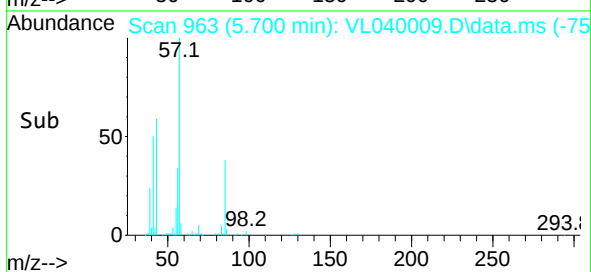
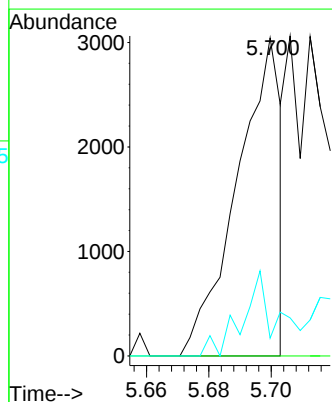
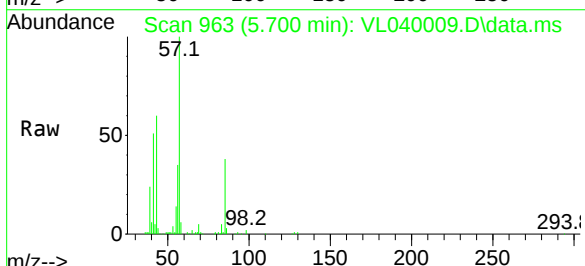
Tgt Ion: 42 Resp: 2965

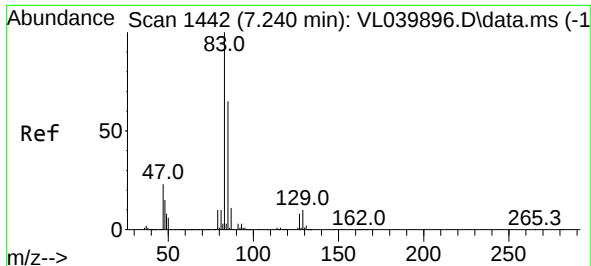
Ion Ratio Lower Upper

42 100

72 0.0 31.6 47.4#

71 35.1 31.2 46.8

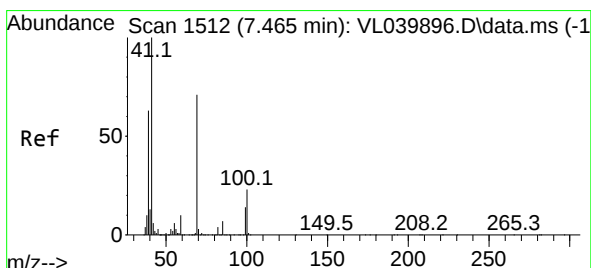
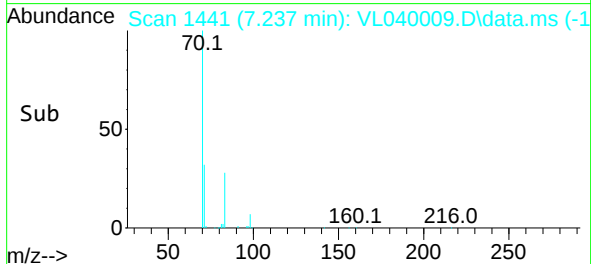
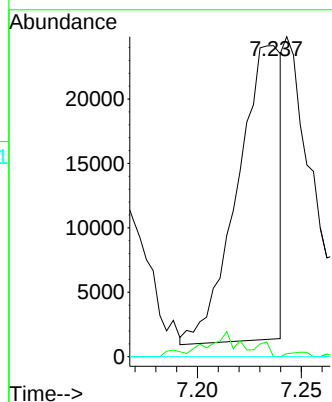
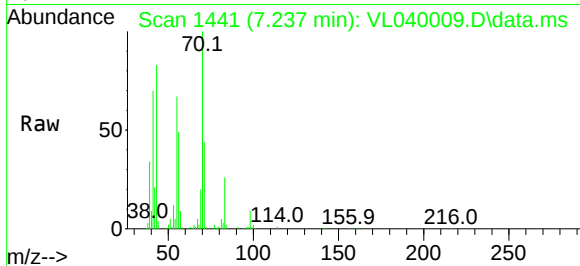




#42
Bromodichloromethane
Concen: 0.167 ppbv
RT: 7.237 min Scan# 1442
Delta R.T. 0.026 min
Lab File: VL040009.D
Acq: 13 Dec 2022 16:58

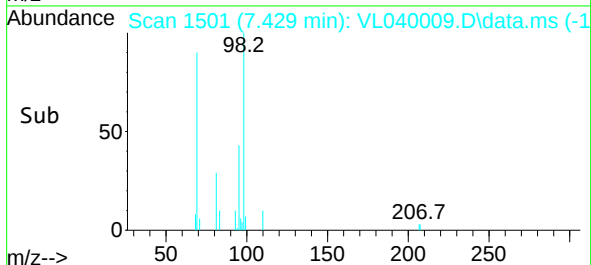
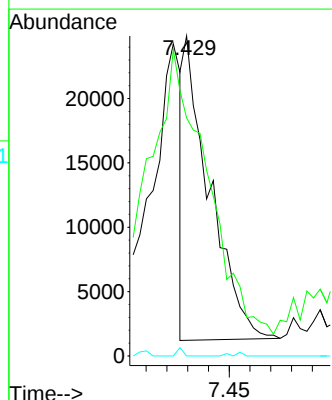
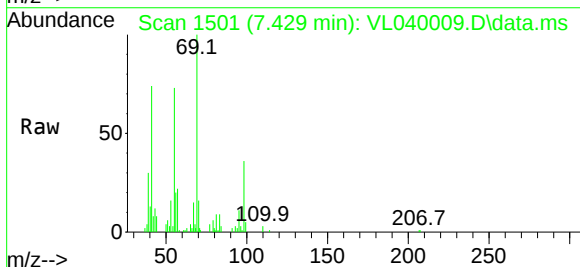
Instrument :
MSVOA_L
ClientSampleId :
SG-1DL

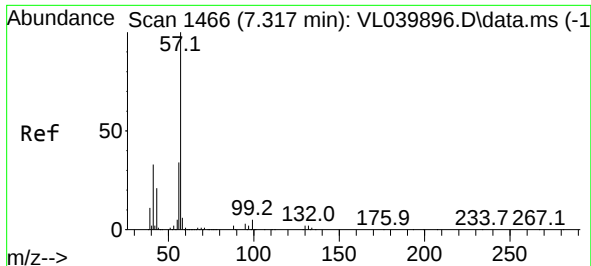
Tgt Ion: 83 Resp: 33244
Ion Ratio Lower Upper
83 100
85 0.0 52.0 78.0#
127 0.0 6.5 9.7#



#43
Methyl Methacrylate
Concen: 0.193 ppbv
RT: 7.429 min Scan# 1501
Delta R.T. -0.010 min
Lab File: VL040009.D
Acq: 13 Dec 2022 16:58

Tgt Ion: 69 Resp: 20322
Ion Ratio Lower Upper
69 100
41 0.0 116.4 174.6#
100 0.0 26.8 40.2#





#44

2,2,4-Trimethylpentane

Concen: 24.625 ppbv

RT: 7.311 min Scan# 1466

Delta R.T. 0.019 min

Lab File: VL040009.D

Acq: 13 Dec 2022 16:58

Instrument :

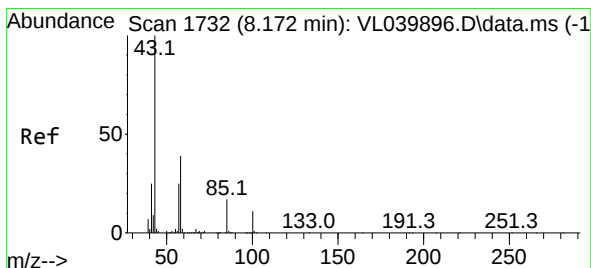
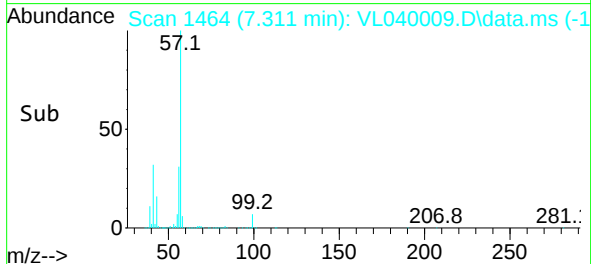
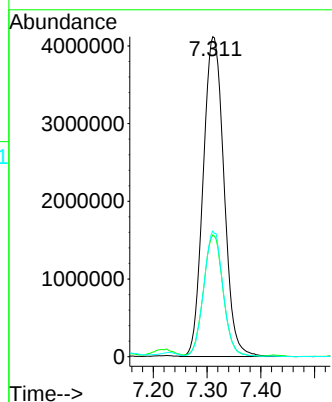
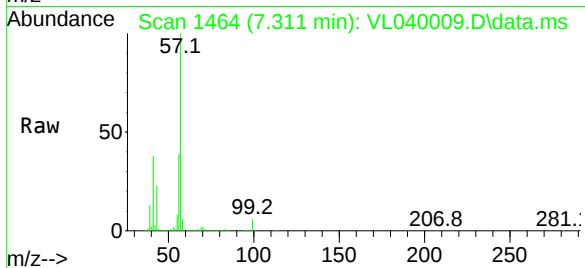
MSVOA_1

ClientSampleId :

SG-1DL

Tgt Ion: 57 Resp:11035228

Ion	Ratio	Lower	Upper
57	100		
41	35.7	26.2	39.2
56	36.8	25.5	38.3



#50

4-Methyl-2-Pentanone

Concen: 0.153 ppbv

RT: 8.185 min Scan# 1736

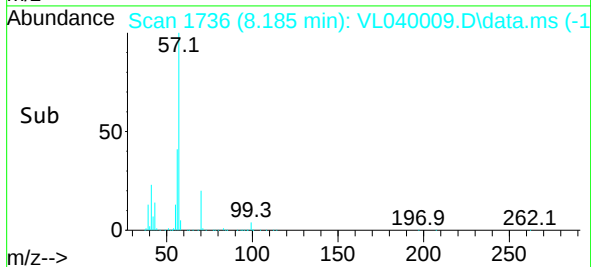
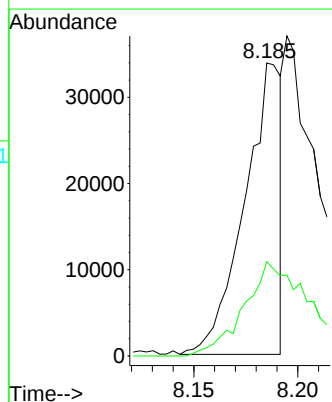
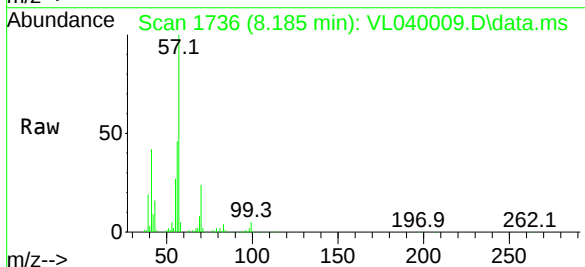
Delta R.T. 0.039 min

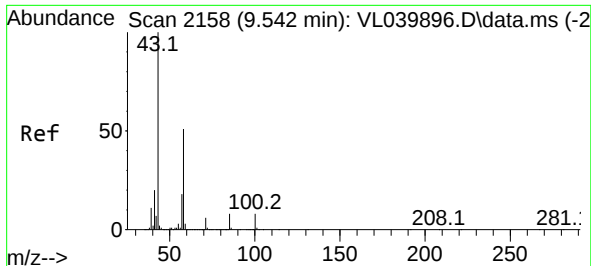
Lab File: VL040009.D

Acq: 13 Dec 2022 16:58

Tgt Ion: 43 Resp: 41357

Ion	Ratio	Lower	Upper
43	100		
58	59.3	29.8	44.6#

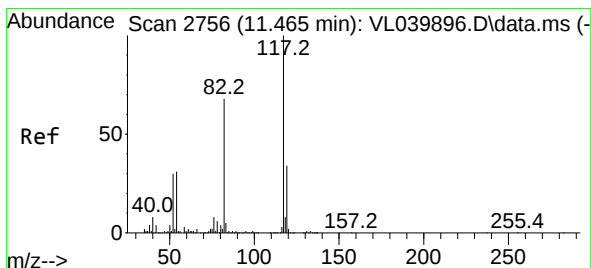
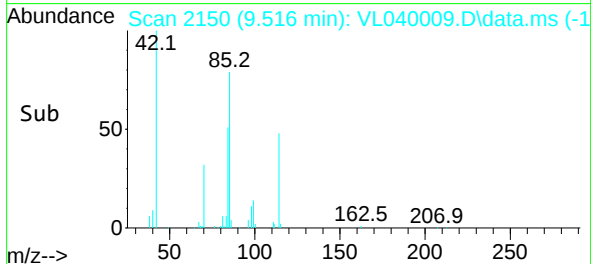
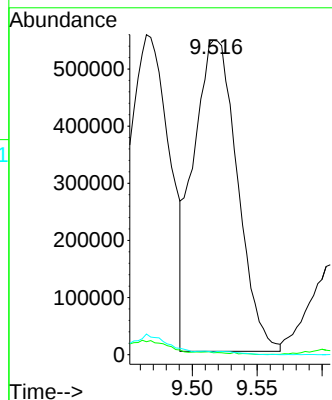
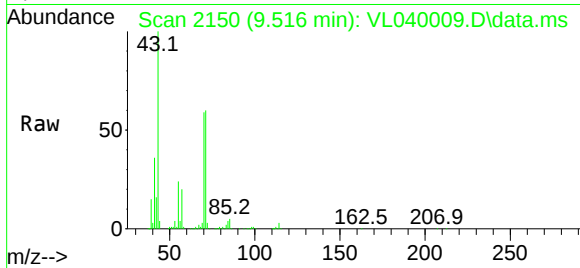




#51
2-Hexanone
Concen: 6.090 ppbv
RT: 9.516 min Scan# 2158
Delta R.T. -0.000 min
Lab File: VL040009.D
Acq: 13 Dec 2022 16:58

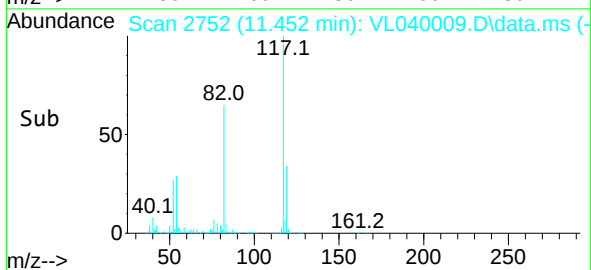
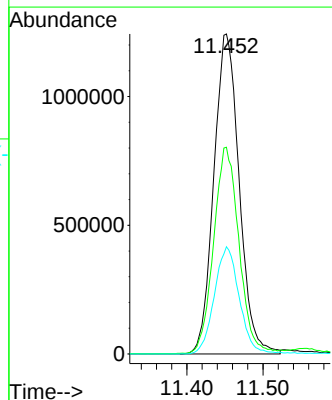
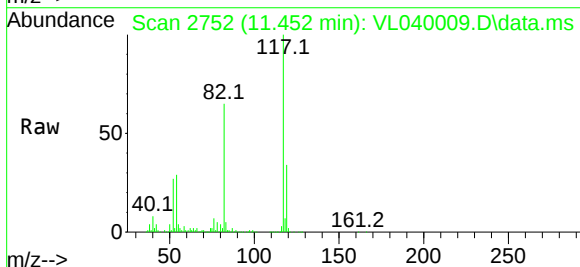
Instrument : MSVOA_L
ClientSampleId : SG-1DL

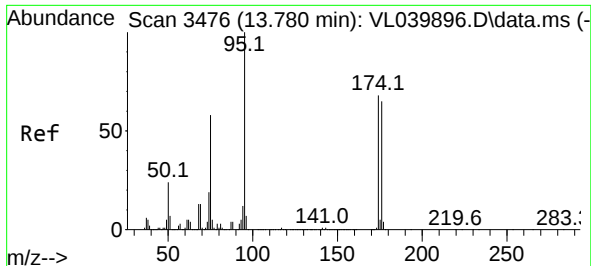
Tgt Ion: 43 Resp: 1279448
Ion Ratio Lower Upper
43 100
58 0.0 40.2 60.4#
98 0.0 0.1 0.1#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 2752
Delta R.T. 0.019 min
Lab File: VL040009.D
Acq: 13 Dec 2022 16:58

Tgt Ion: 117 Resp: 2880914
Ion Ratio Lower Upper
117 100
82 64.6 52.3 78.5
119 33.3 25.7 38.5





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.937 ppbv
 RT: 13.764 min Scan# 34
 Delta R.T. 0.022 min
 Lab File: VL040009.D
 Acq: 13 Dec 2022 16:58

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-1DL

Tgt Ion: 95 Resp: 2186708

Ion	Ratio	Lower	Upper
95	100		
174	64.1	53.7	80.5
175	4.6	4.0	6.0

