

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122022\
 Data File : VL040057.D
 Acq On : 20 Dec 2022 15:20
 Operator : SY/MD
 Sample : N6085-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DUP

Quant Time: Dec 21 03:55:48 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Dec 20 04:50:21 2022
 Response via : Initial Calibration

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

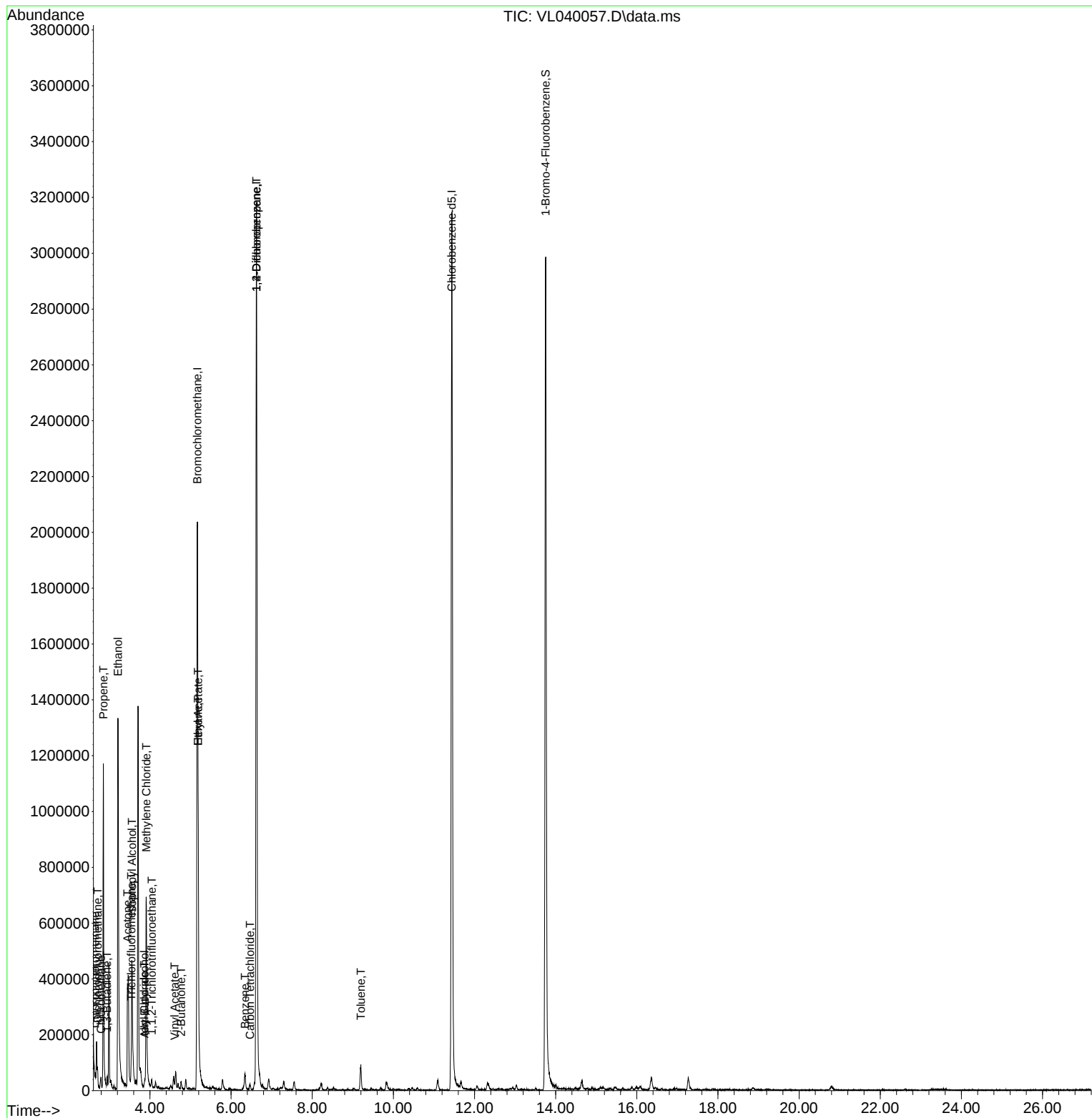
Internal Standards						
1) Bromochloromethane	5.166	49	911265	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.626	114	2337130	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.439	117	2011754	10.000	ppbv	-0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.751	95	1508186	9.814	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.710	85	39739	0.233	ppbv	94
3) Chlorodifluoromethane	2.652	51	45919	0.342	ppbv #	90
4) Chloromethane	2.796	50	29934	0.355	ppbv	96
9) Propene	2.851	41	290965	5.099	ppbv	99
11) Trichlorofluoromethane	3.539	101	36745	0.198	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.044	101	4848	0.035	ppbv #	10
13) Ethanol	3.214	45	1405924	261.801	ppbv	96
15) Acetone	3.446	43	428803	3.042	ppbv	94
16) 1,3-Butadiene	2.944	39	7891	0.129	ppbv #	53
17) tert-Butyl alcohol	3.867	59	4319	0.031	ppbv #	72
19) Isopropyl Alcohol	3.555	45	490312	7.058	ppbv #	98
20) Methylene Chloride	3.909	84	237455	3.963	ppbv	98
21) Allyl Chloride	3.864	41	4648	0.055	ppbv #	78
23) Vinyl Acetate	4.610	43	3102	0.069	ppbv #	59
25) Ethyl Acetate	5.189	43	175718	0.720	ppbv #	77
26) Hexane	5.189	57	254062	2.476	ppbv #	37
34) 2-Butanone	4.771	43	26840	0.212	ppbv	92
35) Carbon Tetrachloride	6.468	117	9098	0.063	ppbv #	76
36) Benzene	6.343	78	37661	0.180	ppbv #	91
39) 1,2-Dichloropropane	6.626	63	581142	7.428	ppbv #	23
53) Toluene	9.198	91	61731	0.267	ppbv	98

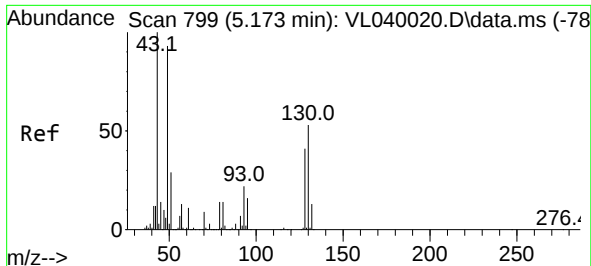
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Dec 20 04:50:21 2022
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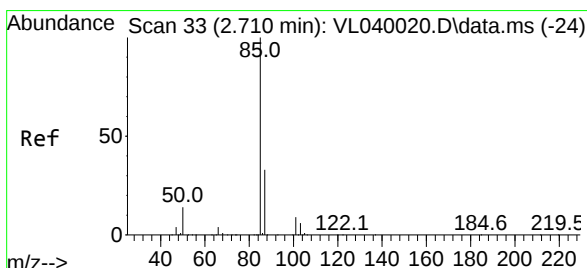
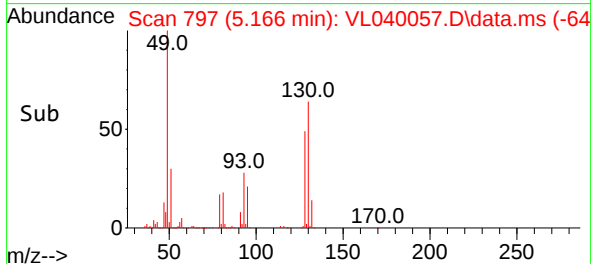
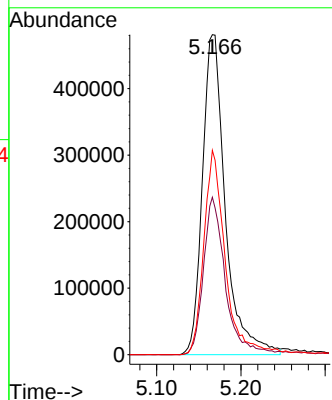
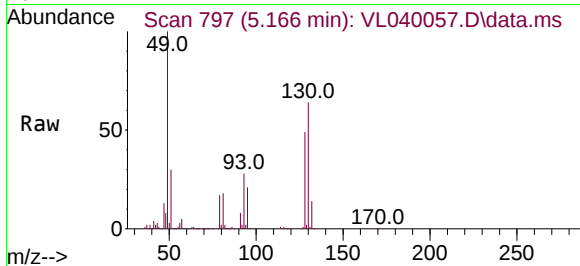




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.166 min Scan# 799
 Delta R.T. -0.007 min
 Lab File: VL040057.D
 Acq: 20 Dec 2022 15:20

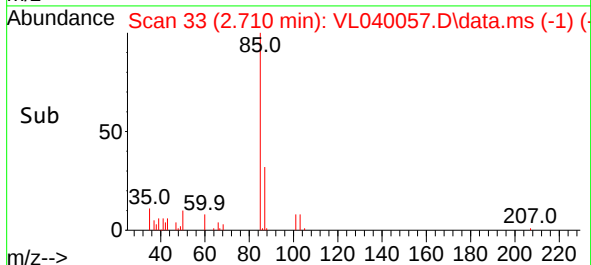
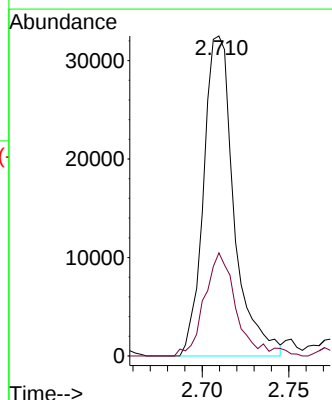
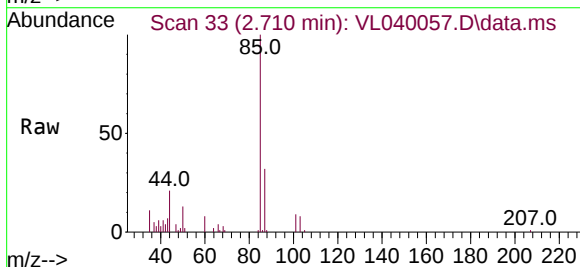
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DUP

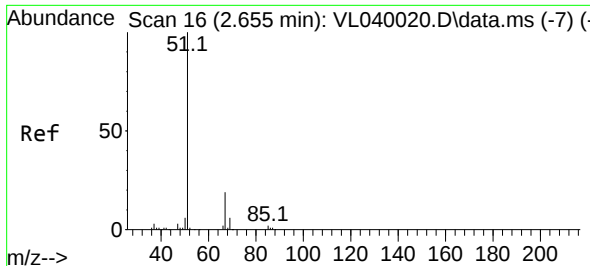
Tgt Ion: 49 Resp: 911265
 Ion Ratio Lower Upper
 49 100
 128 48.5 22.4 67.3
 130 61.0 28.9 86.8



#2
 Dichlorodifluoromethane
 Concen: 0.233 ppbv
 RT: 2.710 min Scan# 33
 Delta R.T. 0.000 min
 Lab File: VL040057.D
 Acq: 20 Dec 2022 15:20

Tgt Ion: 85 Resp: 39739
 Ion Ratio Lower Upper
 85 100
 87 30.1 26.6 40.0

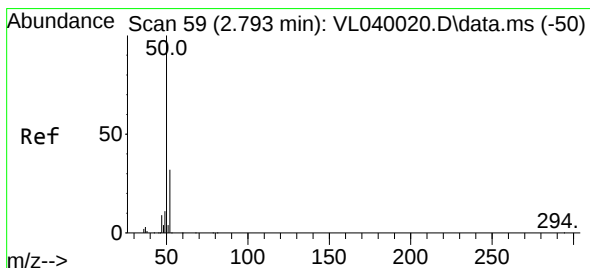
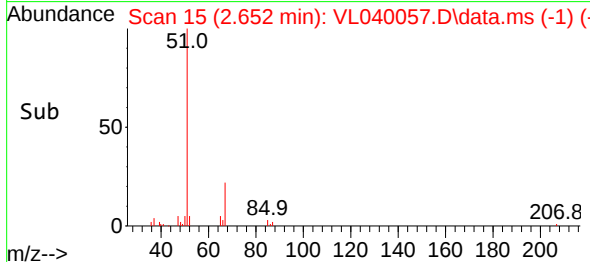
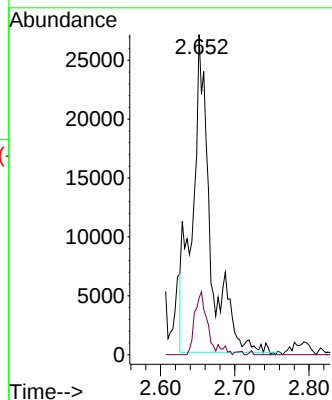
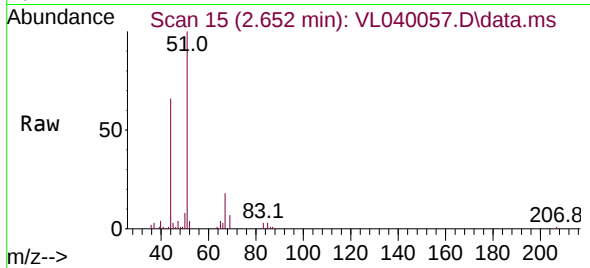




#3
Chlorodifluoromethane
Concen: 0.342 ppbv
RT: 2.652 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL040057.D
Acq: 20 Dec 2022 15:20

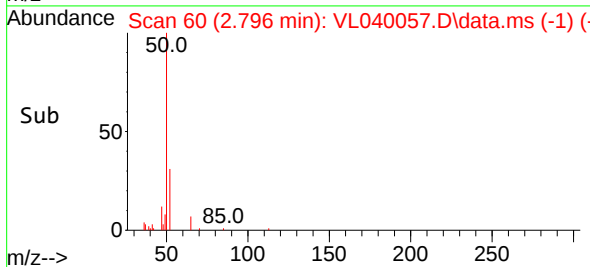
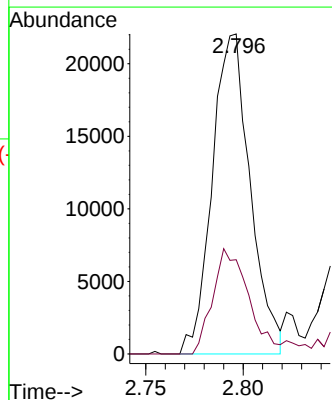
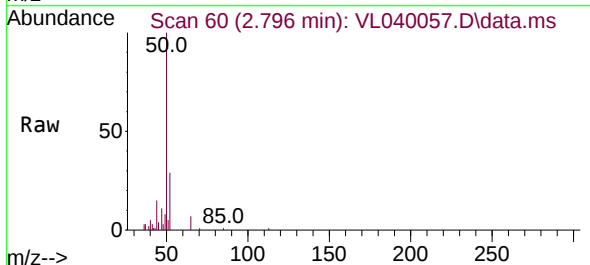
Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

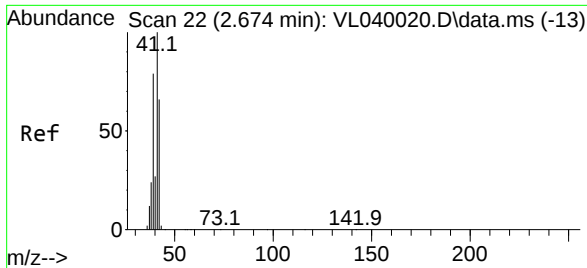
Tgt Ion: 51 Resp: 45919
Ion Ratio Lower Upper
51 100
67 14.8 15.3 22.9#



#4
Chloromethane
Concen: 0.355 ppbv
RT: 2.796 min Scan# 60
Delta R.T. 0.003 min
Lab File: VL040057.D
Acq: 20 Dec 2022 15:20

Tgt Ion: 50 Resp: 29934
Ion Ratio Lower Upper
50 100
52 29.4 25.5 38.3

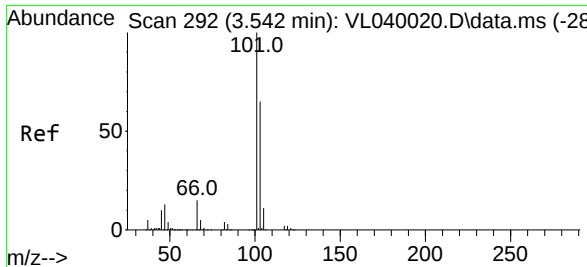
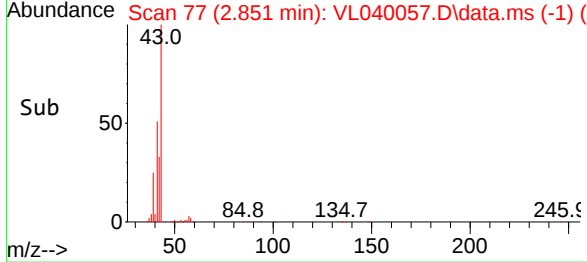
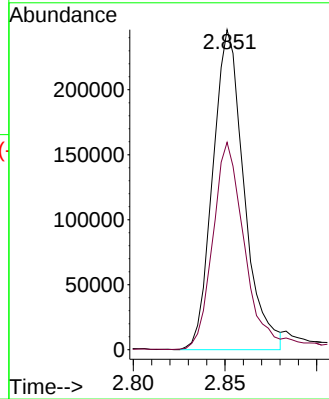
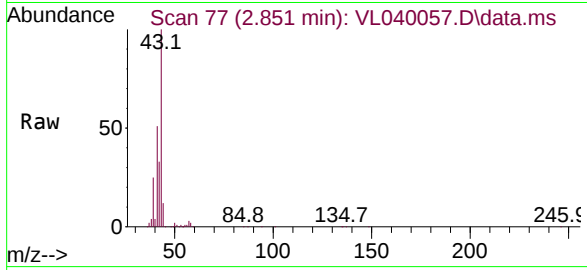




#9
Propene
Concen: 5.099 ppbv
RT: 2.851 min Scan# 71
Delta R.T. 0.177 min
Lab File: VL040057.D
Acq: 20 Dec 2022 15:20

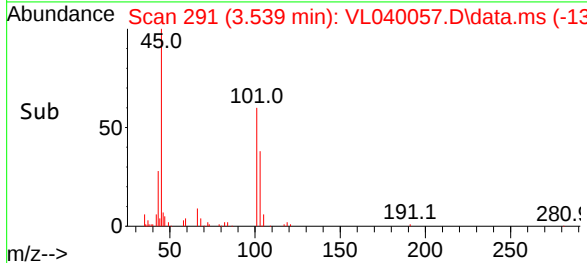
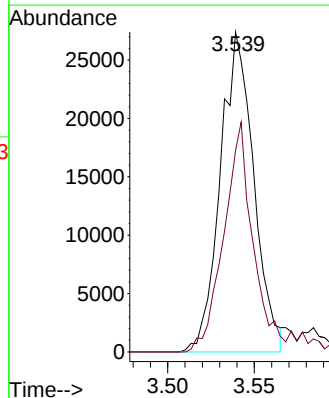
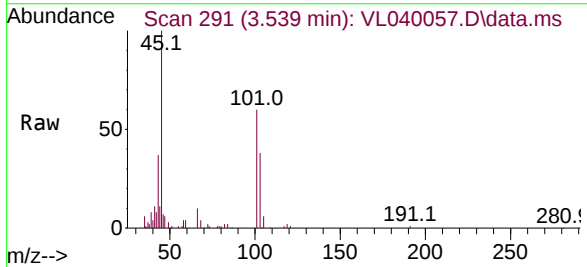
Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

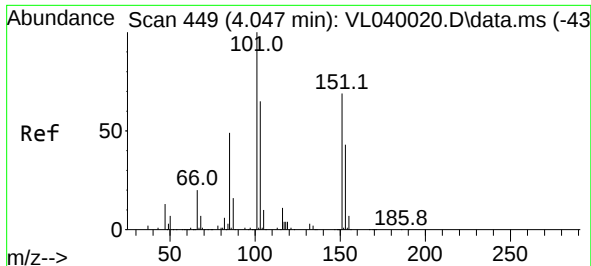
Tgt Ion: 41 Resp: 290965
Ion Ratio Lower Upper
41 100
42 69.3 54.8 82.2



#11
Trichlorofluoromethane
Concen: 0.198 ppbv
RT: 3.539 min Scan# 291
Delta R.T. -0.003 min
Lab File: VL040057.D
Acq: 20 Dec 2022 15:20

Tgt Ion: 101 Resp: 36745
Ion Ratio Lower Upper
101 100
103 62.9 51.7 77.5





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.035 ppbv

RT: 4.044 min Scan# 449

Delta R.T. -0.003 min

Lab File: VL040057.D

Acq: 20 Dec 2022 15:20

Instrument :

MSVOA_L

ClientSampleId :

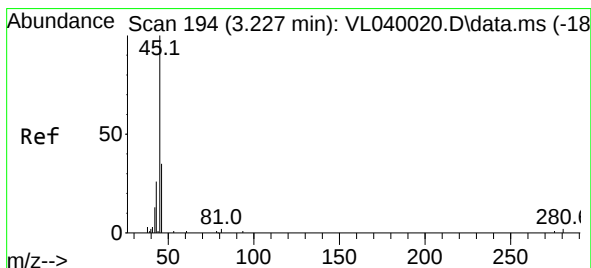
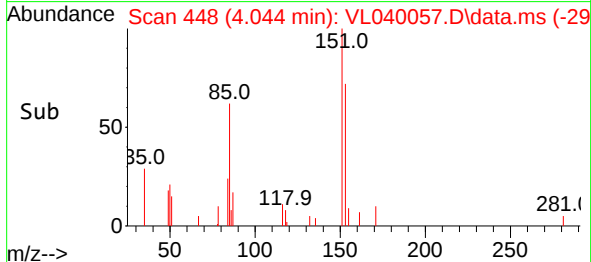
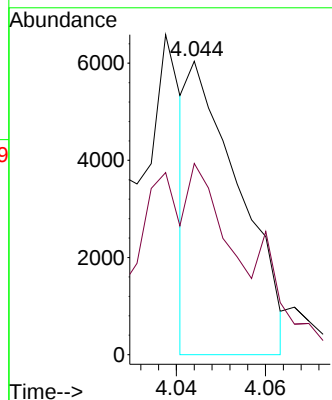
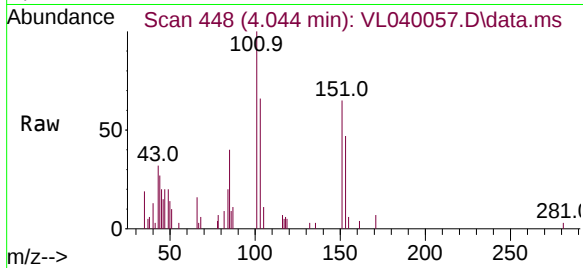
IA-1DUP

Tgt Ion:101 Resp: 4848

Ion Ratio Lower Upper

101 100

151 141.5 55.0 82.4#



#13

Ethanol

Concen: 261.801 ppbv

RT: 3.214 min Scan# 190

Delta R.T. -0.013 min

Lab File: VL040057.D

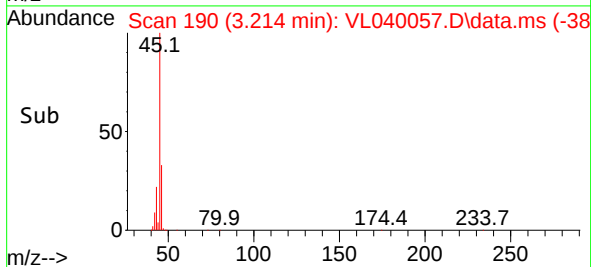
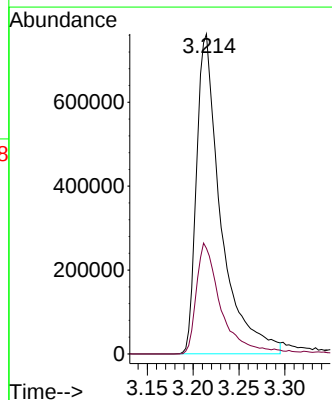
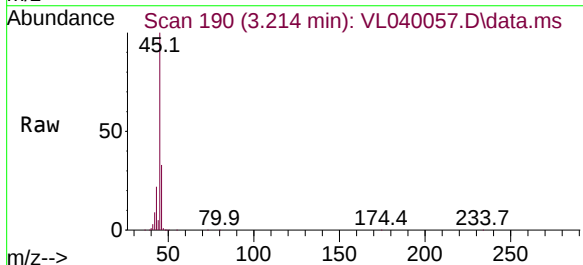
Acq: 20 Dec 2022 15:20

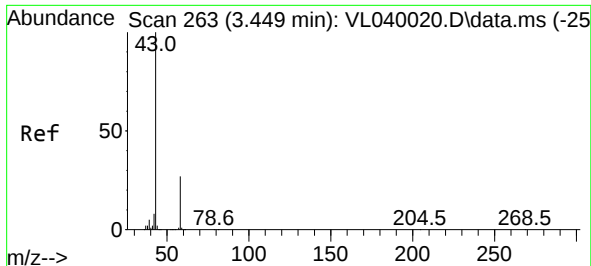
Tgt Ion: 45 Resp: 1405924

Ion Ratio Lower Upper

45 100

46 36.2 13.7 54.7





#15

Acetone

Concen: 3.042 ppbv

RT: 3.446 min Scan# 20

Delta R.T. -0.003 min

Lab File: VL040057.D

Acq: 20 Dec 2022 15:20

Instrument :

MSVOA_L

ClientSampleId :

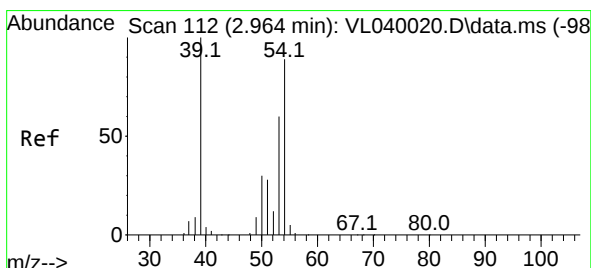
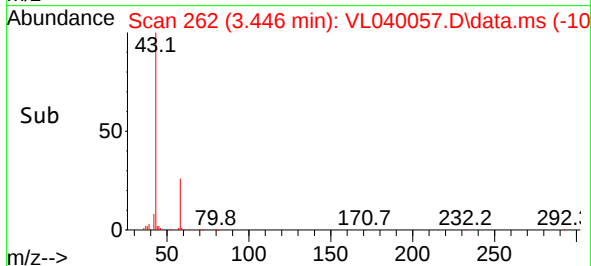
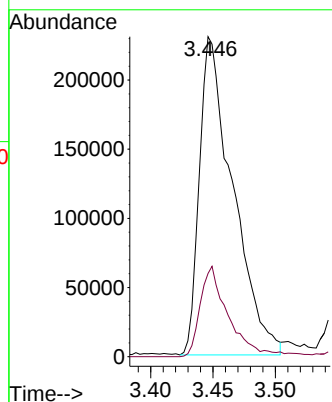
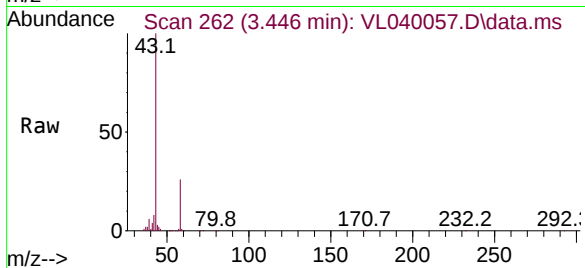
IA-1DUP

Tgt Ion: 43 Resp: 428803

Ion Ratio Lower Upper

43 100

58 24.2 21.8 32.8



#16

1,3-Butadiene

Concen: 0.129 ppbv

RT: 2.944 min Scan# 106

Delta R.T. -0.019 min

Lab File: VL040057.D

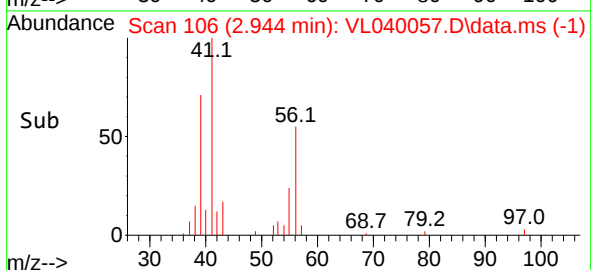
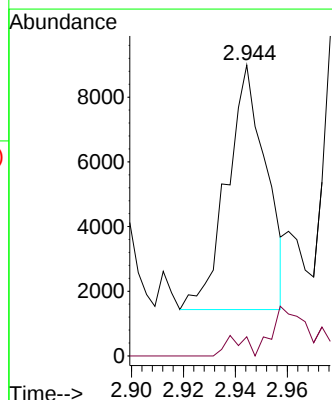
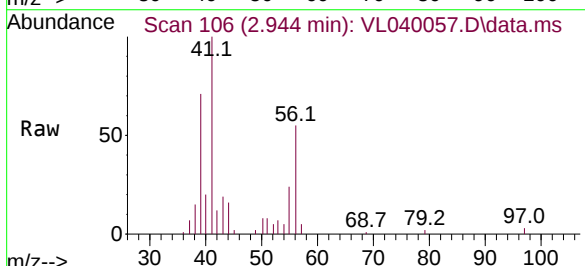
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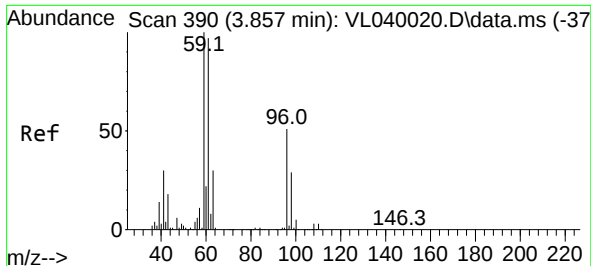
Tgt Ion: 39 Resp: 7891

Ion Ratio Lower Upper

39 100

54 42.2 68.3 102.5#





#17

tert-Butyl alcohol

Concen: 0.031 ppbv

RT: 3.867 min Scan# 390

Delta R.T. 0.010 min

Lab File: VL040057.D

Acq: 20 Dec 2022 15:20

Instrument :

MSVOA_L

ClientSampleId :

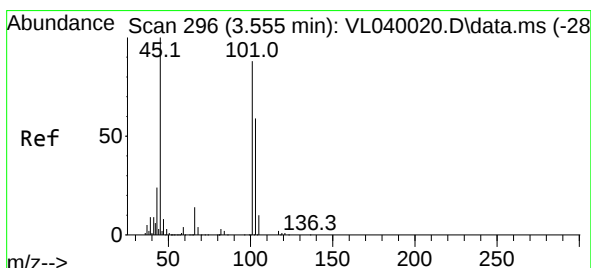
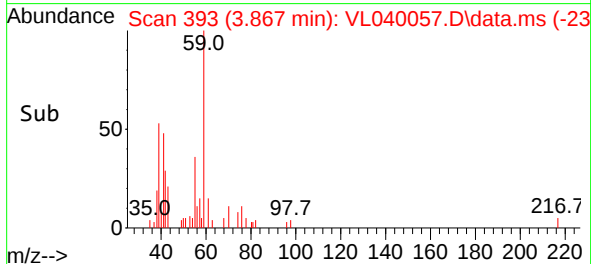
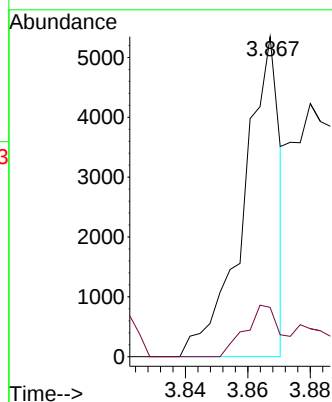
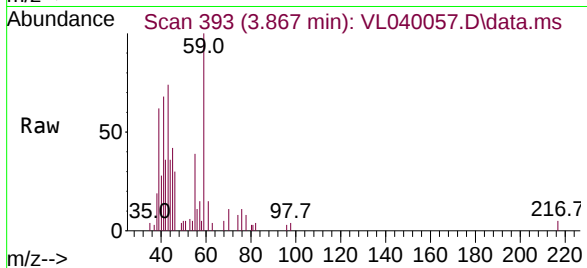
IA-1DUP

Tgt Ion: 59 Resp: 4319

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



#19

Isopropyl Alcohol

Concen: 7.058 ppbv

RT: 3.555 min Scan# 296

Delta R.T. 0.000 min

Lab File: VL040057.D

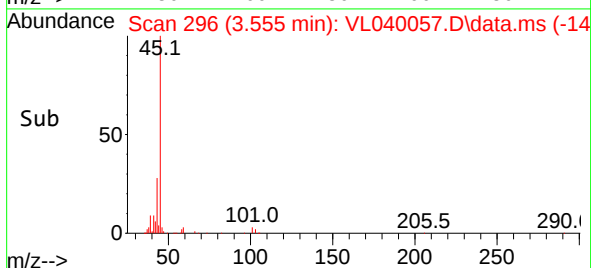
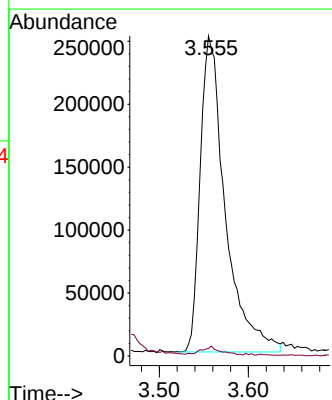
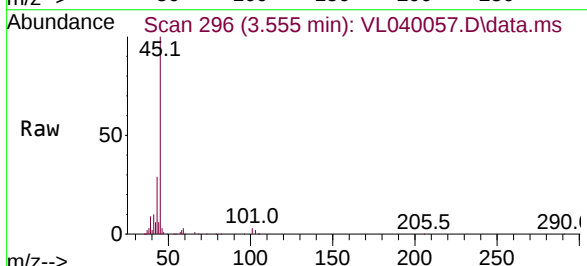
Acq: 20 Dec 2022 15:20

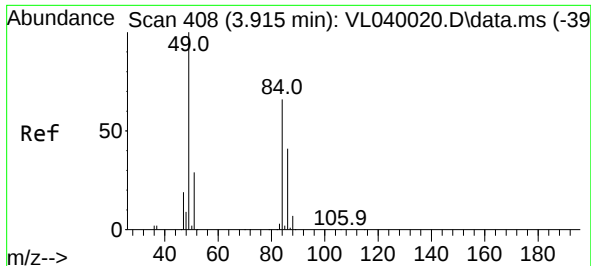
Tgt Ion: 45 Resp: 490312

Ion Ratio Lower Upper

45 100

58 2.7 1.7 2.5#

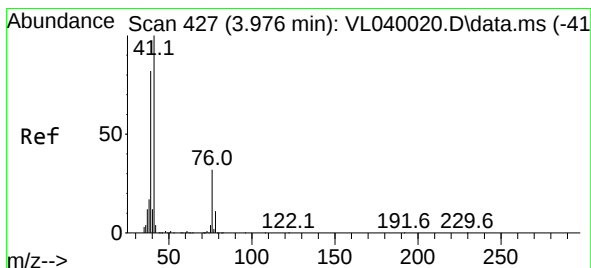
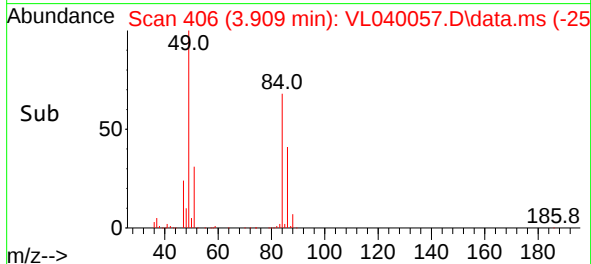
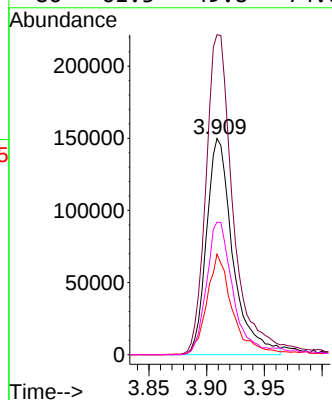
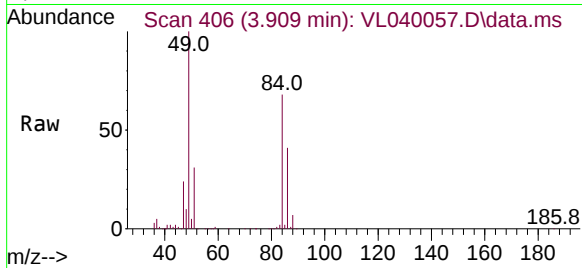




#20
Methylene Chloride
Concen: 3.963 ppbv
RT: 3.909 min Scan# 408
Delta R.T. -0.006 min
Lab File: VL040057.D
Acq: 20 Dec 2022 15:20

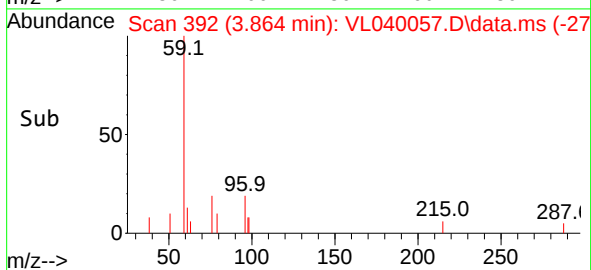
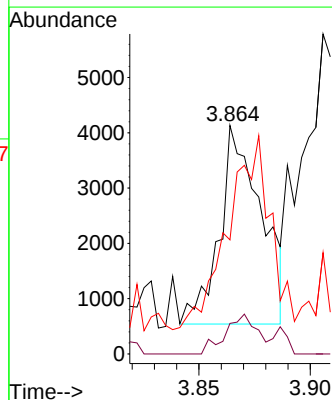
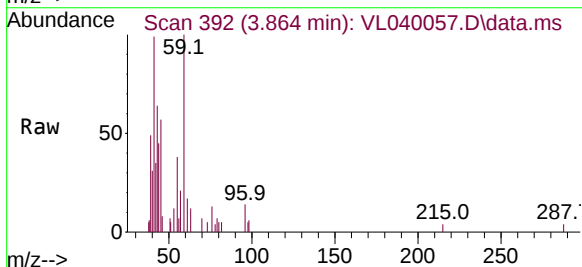
Instrument :
MSVOA_1
ClientSampleId :
IA-1DUP

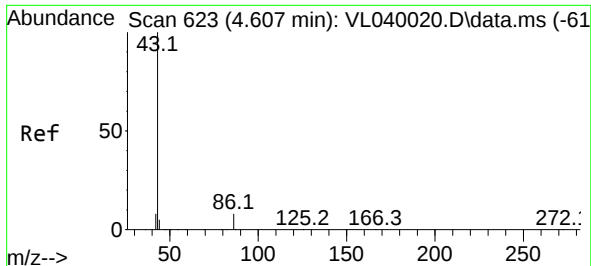
Tgt Ion: 84 Resp: 237455
Ion Ratio Lower Upper
84 100
49 147.9 120.5 180.7
51 46.3 35.2 52.8
86 61.3 49.8 74.6



#21
Allyl Chloride
Concen: 0.055 ppbv
RT: 3.864 min Scan# 392
Delta R.T. -0.113 min
Lab File: VL040057.D
Acq: 20 Dec 2022 15:20

Tgt Ion: 41 Resp: 4648
Ion Ratio Lower Upper
41 100
76 19.6 25.9 38.9#
39 101.5 66.0 99.0#

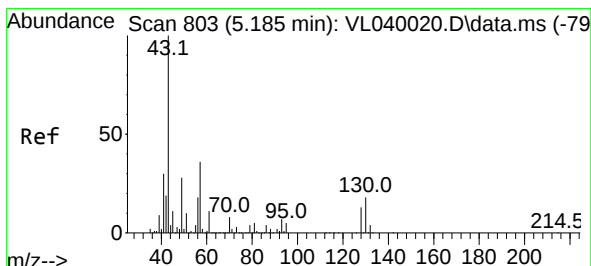
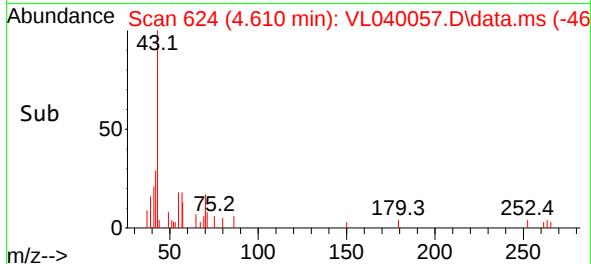
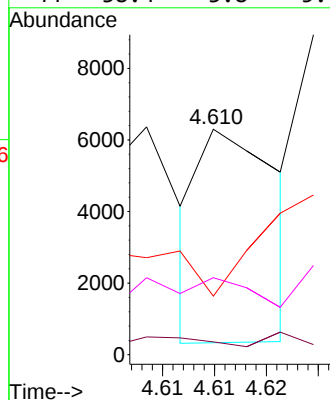
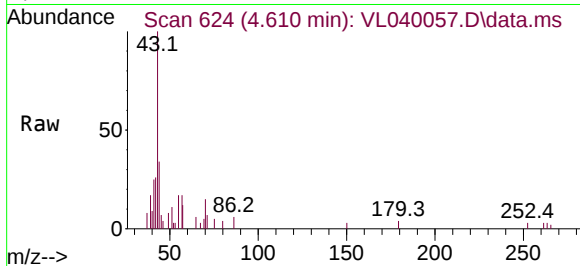




#23
 Vinyl Acetate
 Concen: 0.069 ppbv
 RT: 4.610 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL040057.D
 Acq: 20 Dec 2022 15:20

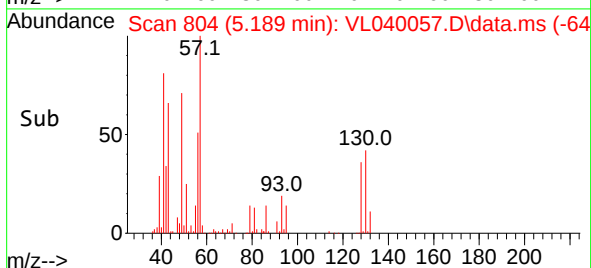
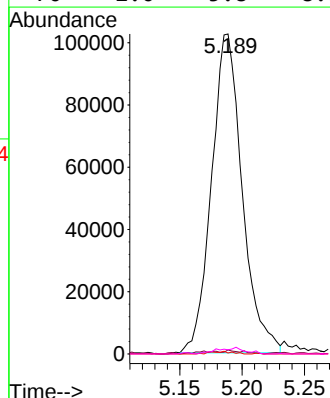
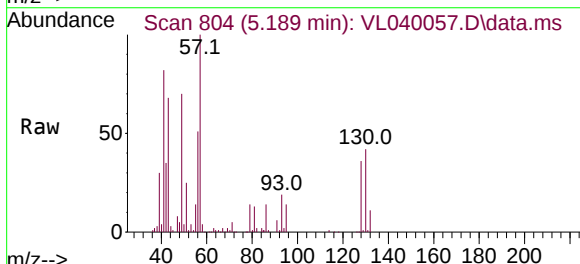
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DUP

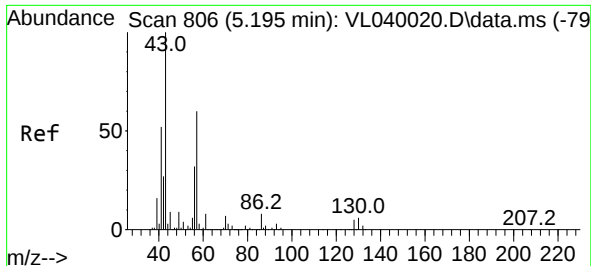
Tgt Ion: 43	Resp: 3102
Ion Ratio	Lower Upper
43	100
86	0.0 5.3 7.9#
42	0.0 7.4 11.0#
44	38.4 3.8 5.6#



#25
 Ethyl Acetate
 Concen: 0.720 ppbv
 RT: 5.189 min Scan# 804
 Delta R.T. 0.003 min
 Lab File: VL040057.D
 Acq: 20 Dec 2022 15:20

Tgt Ion: 43	Resp: 175718
Ion Ratio	Lower Upper
43	100
45	1.7 8.6 12.8#
61	0.6 8.5 12.7#
70	2.0 5.8 8.8#



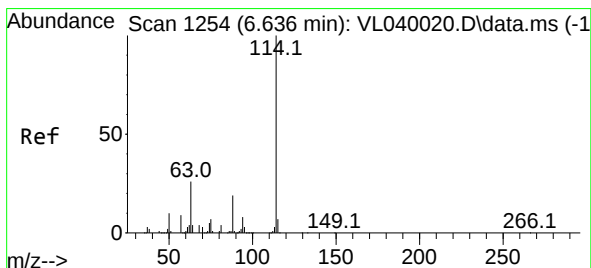
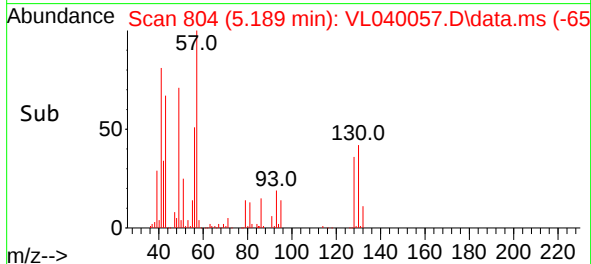
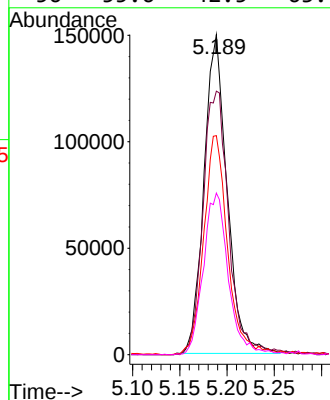
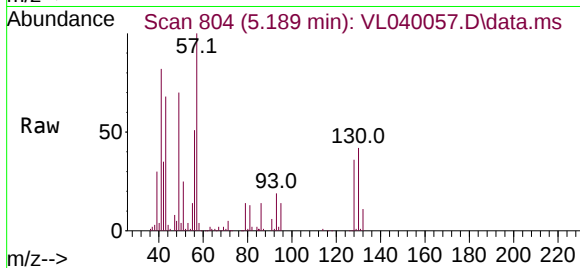


#26
Hexane
Concen: 2.476 ppbv
RT: 5.189 min Scan# 806
Delta R.T. -0.006 min
Lab File: VL040057.D
Acq: 20 Dec 2022 15:20

Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

Tgt Ion: 57 Resp: 254062

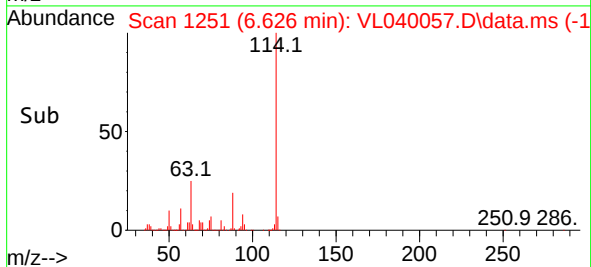
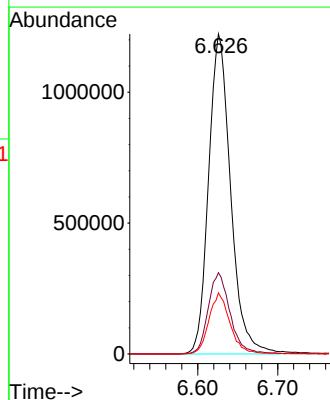
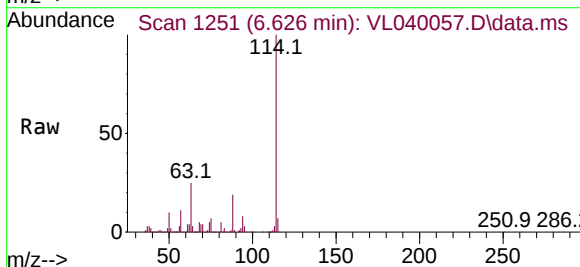
Ion	Ratio	Lower	Upper
57	100		
41	93.3	72.1	108.1
43	72.4	192.1	288.1#
56	55.6	42.5	63.7

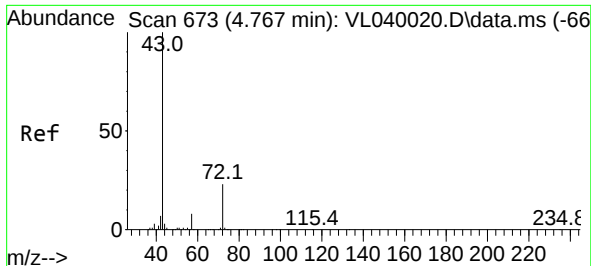


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.626 min Scan# 1251
Delta R.T. -0.010 min
Lab File: VL040057.D
Acq: 20 Dec 2022 15:20

Tgt Ion: 114 Resp: 2337130

Ion	Ratio	Lower	Upper
114	100		
63	25.5	20.2	30.2
88	18.4	14.6	21.8

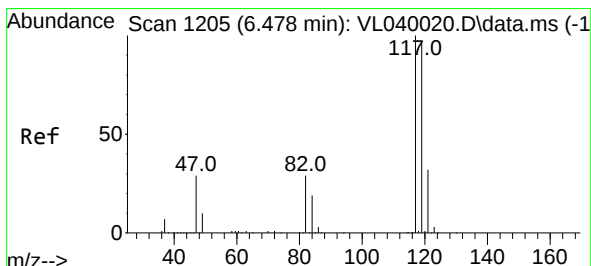
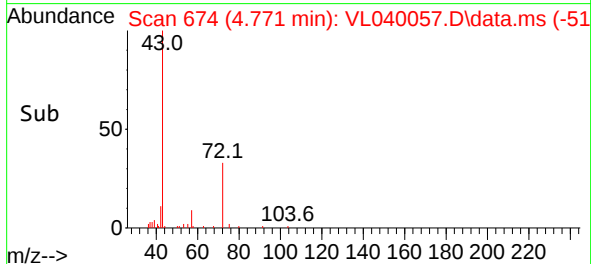
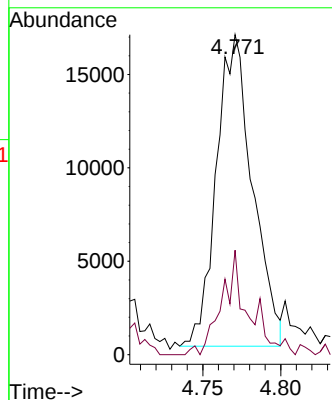
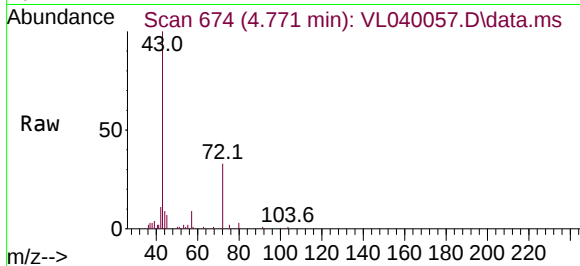




#34
2-Butanone
Concen: 0.212 ppbv
RT: 4.771 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL040057.D
Acq: 20 Dec 2022 15:20

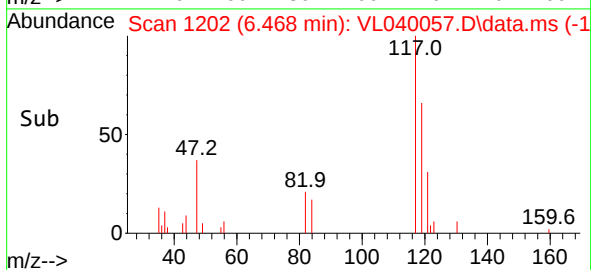
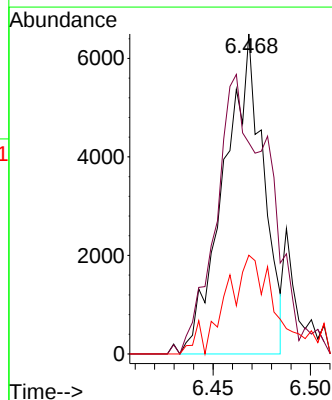
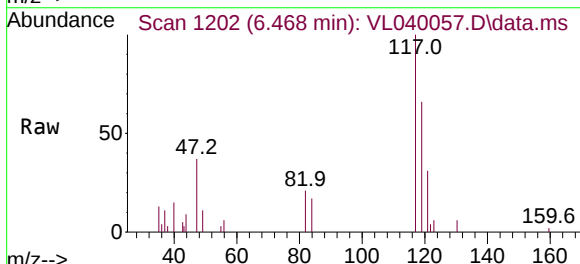
Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

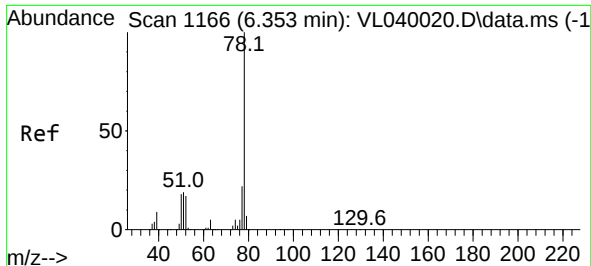
Tgt Ion: 43 Resp: 26840
Ion Ratio Lower Upper
43 100
72 26.3 18.0 27.0



#35
Carbon Tetrachloride
Concen: 0.063 ppbv
RT: 6.468 min Scan# 1202
Delta R.T. -0.010 min
Lab File: VL040057.D
Acq: 20 Dec 2022 15:20

Tgt Ion: 117 Resp: 9098
Ion Ratio Lower Upper
117 100
119 66.0 77.3 115.9#
121 30.9 25.4 38.0

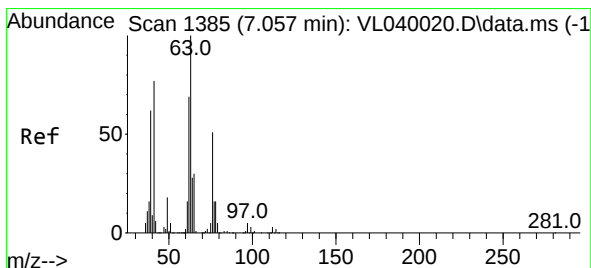
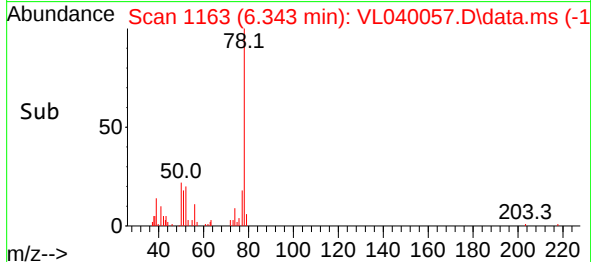
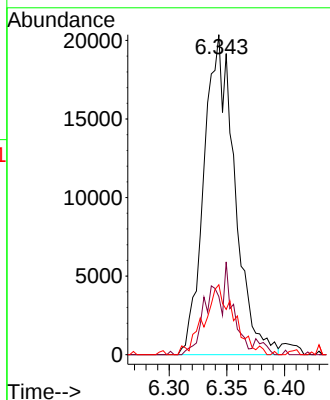
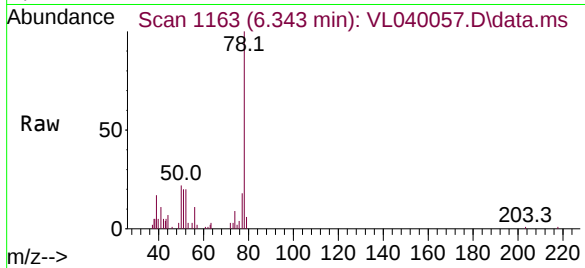




#36
Benzene
Concen: 0.180 ppbv
RT: 6.343 min Scan# 1166
Delta R.T. -0.010 min
Lab File: VL040057.D
Acq: 20 Dec 2022 15:20

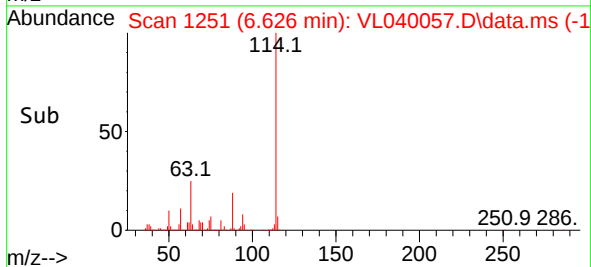
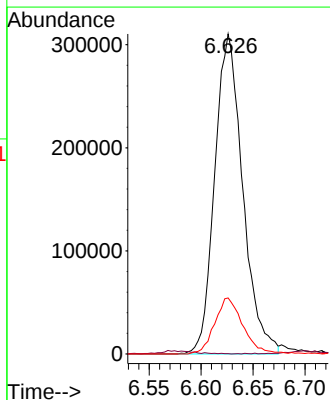
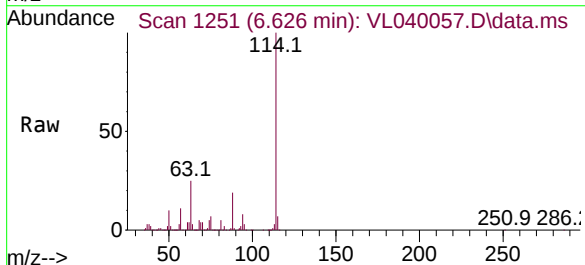
Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

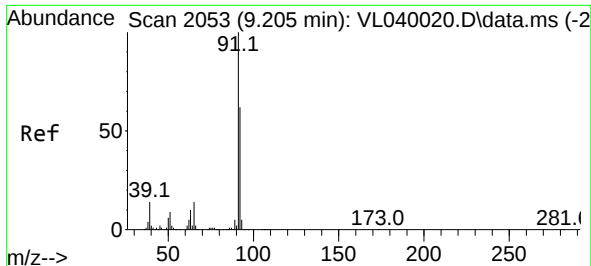
Tgt Ion: 78 Resp: 37661
Ion Ratio Lower Upper
78 100
77 18.2 17.5 26.3
50 21.8 14.2 21.2#



#39
1,2-Dichloropropane
Concen: 7.428 ppbv
RT: 6.626 min Scan# 1251
Delta R.T. -0.431 min
Lab File: VL040057.D
Acq: 20 Dec 2022 15:20

Tgt Ion: 63 Resp: 581142
Ion Ratio Lower Upper
63 100
41 0.0 61.4 92.0#
62 17.5 55.4 83.2#

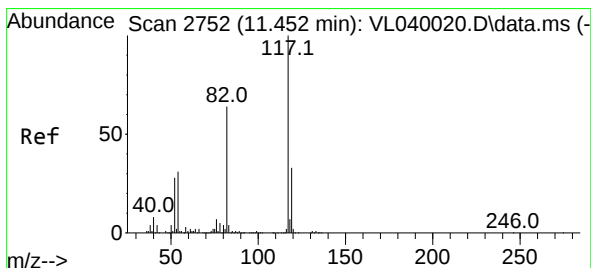
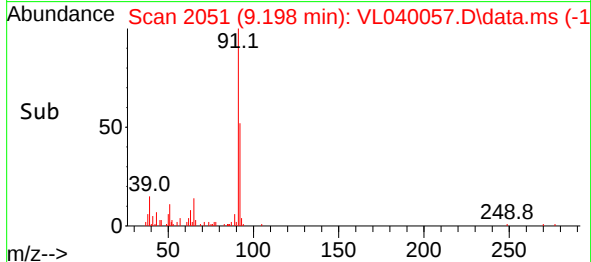
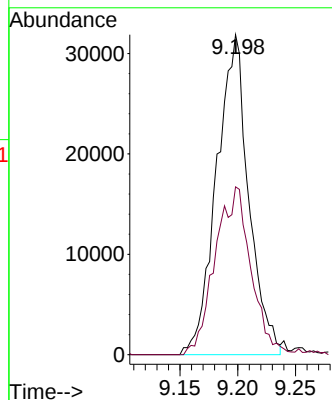
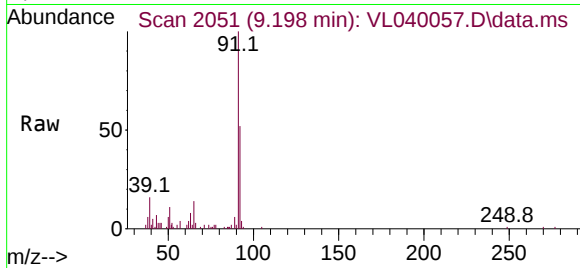




#53
Toluene
Concen: 0.267 ppbv
RT: 9.198 min Scan# 2053
Delta R.T. -0.006 min
Lab File: VL040057.D
Acq: 20 Dec 2022 15:20

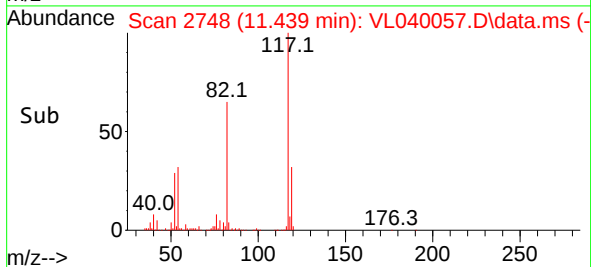
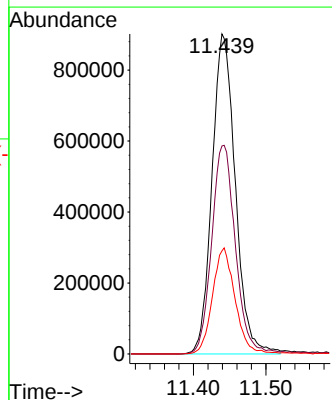
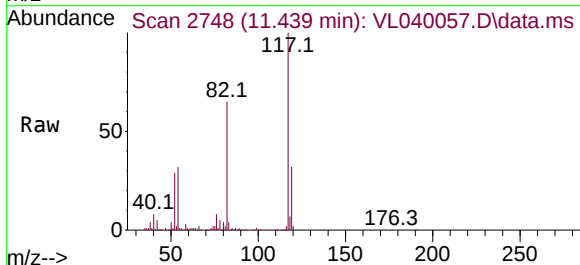
Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

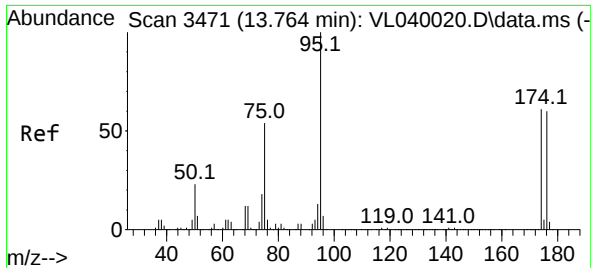
Tgt Ion: 91 Resp: 61731
Ion Ratio Lower Upper
91 100
92 59.1 48.7 73.1



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.439 min Scan# 2748
Delta R.T. -0.013 min
Lab File: VL040057.D
Acq: 20 Dec 2022 15:20

Tgt Ion: 117 Resp: 2011754
Ion Ratio Lower Upper
117 100
82 67.2 51.2 76.8
119 32.5 23.2 34.8





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.814 ppbv
 RT: 13.751 min Scan# 34
 Delta R.T. -0.013 min
 Lab File: VL040057.D
 Acq: 20 Dec 2022 15:20

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DUP

Tgt Ion: 95 Resp: 1508186
 Ion Ratio Lower Upper
 95 100
 174 61.2 48.6 73.0
 175 4.3 3.4 5.2

