

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112122\
 Data File : VL039910.D
 Acq On : 21 Nov 2022 14:58
 Operator : SY/AP
 Sample : N5724-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Quant Time: Nov 22 03:48:34 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 : Tue Nov 22 03:45:31 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.166	49	1049777	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.629	114	3156753	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.449	117	2807830	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.761	95	2174597	10.140	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.400%

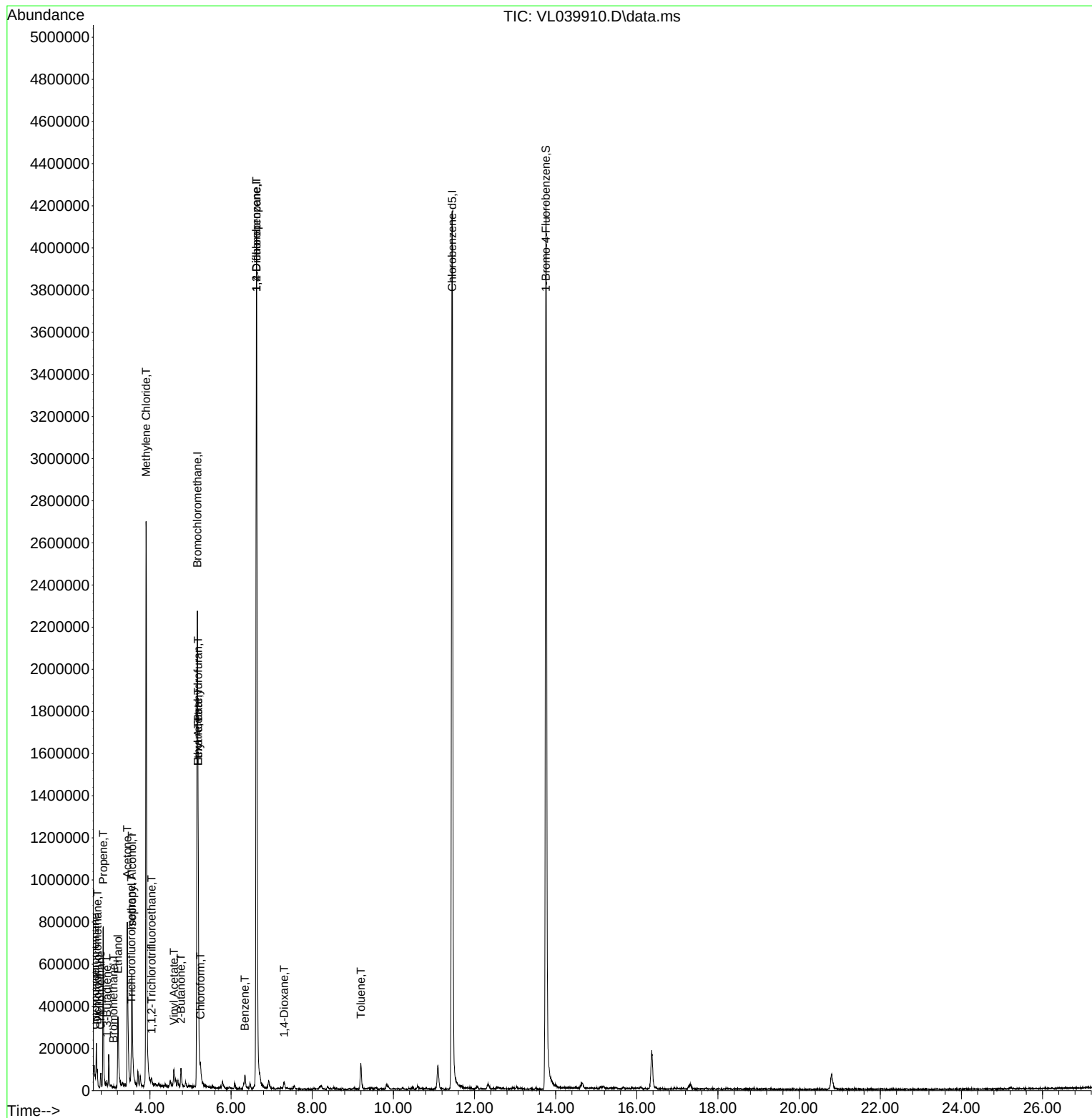
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.703	85	41754	0.278	ppbv #	86
3) Chlorodifluoromethane	2.648	51	54736	0.378	ppbv	99
4) Chloromethane	2.787	50	55921	0.604	ppbv #	84
6) Bromomethane	3.099	94	872	0.035	ppbv #	4
9) Propene	2.845	41	176120	2.581	ppbv	90
11) Trichlorofluoromethane	3.539	101	42815	0.233	ppbv	93
12) 1,1,2-Trichlorotrifluo...	4.037	101	5900	0.043	ppbv #	48
13) Ethanol	3.214	45	357237	68.571	ppbv	97
15) Acetone	3.443	43	801010	5.753	ppbv	100
16) 1,3-Butadiene	2.941	39	3667	0.053	ppbv	91
19) Isopropyl Alcohol	3.555	45	591266	7.843	ppbv #	32
20) Methylene Chloride	3.906	84	929683	13.781	ppbv	98
23) Vinyl Acetate	4.590	43	89084	1.557	ppbv #	91
25) Ethyl Acetate	5.189	43	258665	1.012	ppbv #	78
26) Hexane	5.189	57	371026	3.322	ppbv #	40
29) Chloroform	5.250	83	34006	0.229	ppbv	94
34) 2-Butanone	4.764	43	88917	0.589	ppbv #	90
36) Benzene	6.340	78	45425	0.169	ppbv	94
39) 1,2-Dichloropropane	6.629	63	783868	7.498	ppbv #	26
40) 1,4-Dioxane	7.307	88	3279	0.079	ppbv #	25
41) Tetrahydrofuran	5.185	42	138274	1.326	ppbv #	51
53) Toluene	9.198	91	84996	0.278	ppbv	99

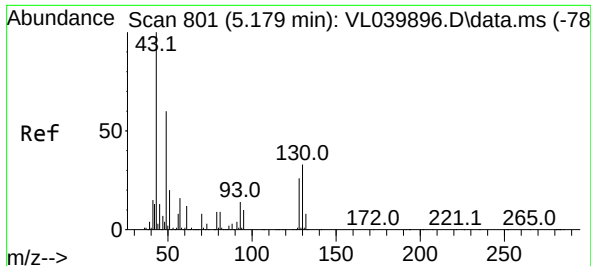
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112122\
Data File : VL039910.D
Acq On : 21 Nov 2022 14:58
Operator : SY/AP
Sample : N5724-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA2

Quant Time: Nov 22 03:48:34 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 : Tue Nov 22 03:45:31 2022
Response via : Initial Calibration

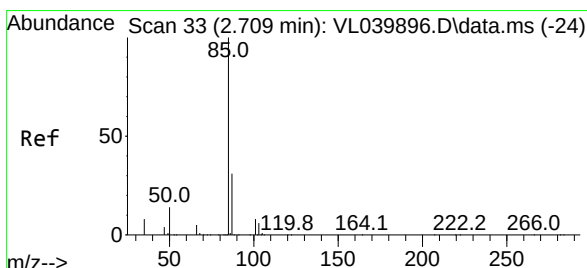
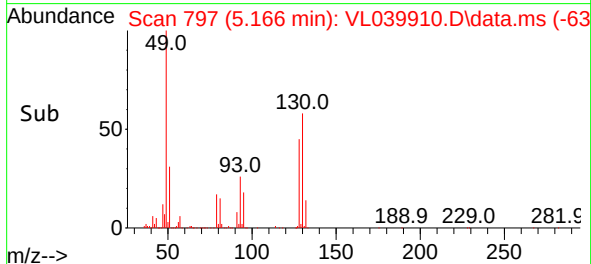
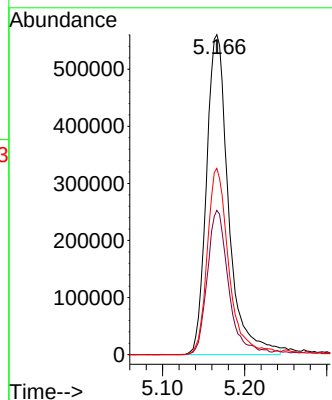
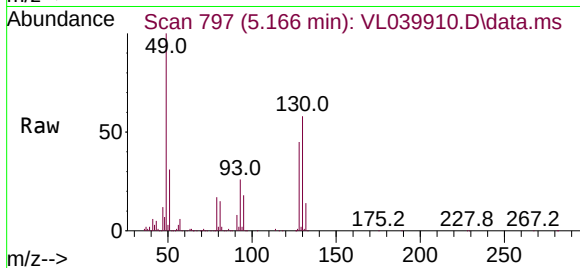




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.166 min Scan# 79
 Delta R.T. 0.010 min
 Lab File: VL039910.D
 Acq: 21 Nov 2022 14:58

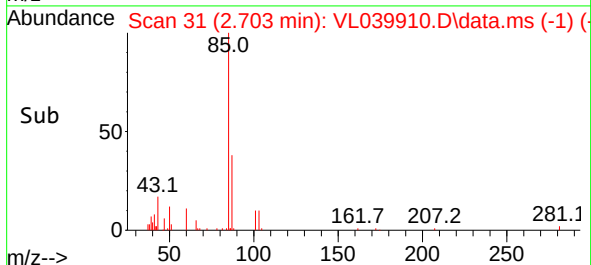
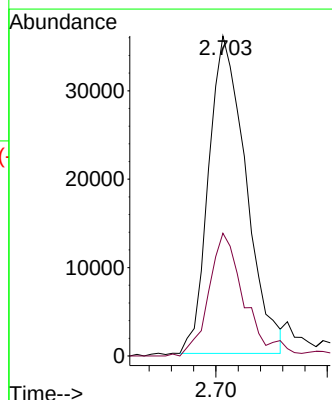
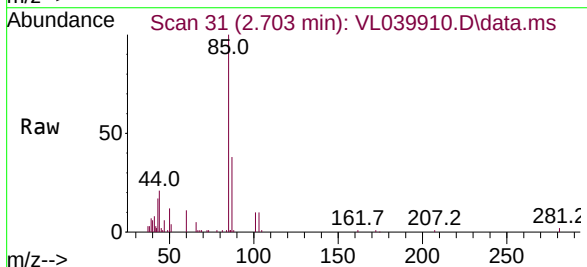
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

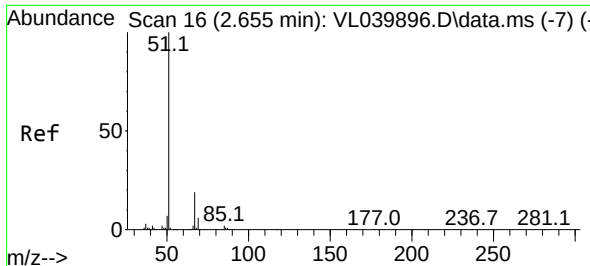
Tgt Ion: 49 Resp: 1049777
 Ion Ratio Lower Upper
 49 100
 128 45.5 22.1 66.3
 130 59.0 27.7 83.1



#2
 Dichlorodifluoromethane
 Concen: 0.278 ppbv
 RT: 2.703 min Scan# 31
 Delta R.T. 0.006 min
 Lab File: VL039910.D
 Acq: 21 Nov 2022 14:58

Tgt Ion: 85 Resp: 41754
 Ion Ratio Lower Upper
 85 100
 87 38.7 25.0 37.4#

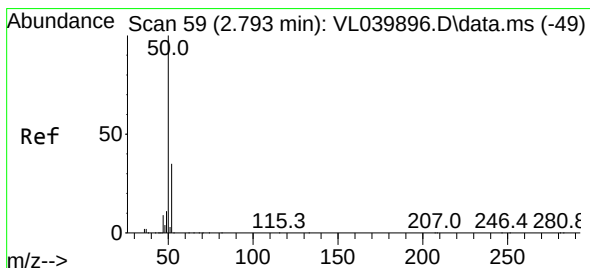
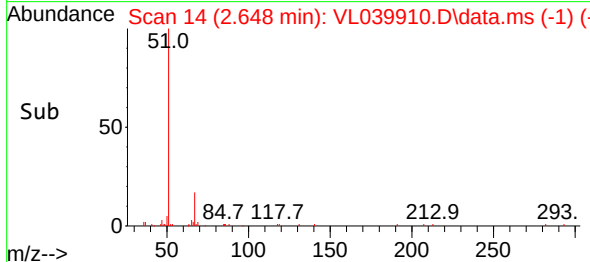
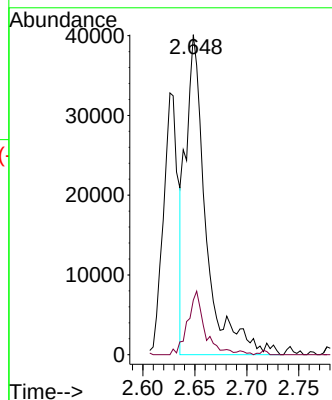
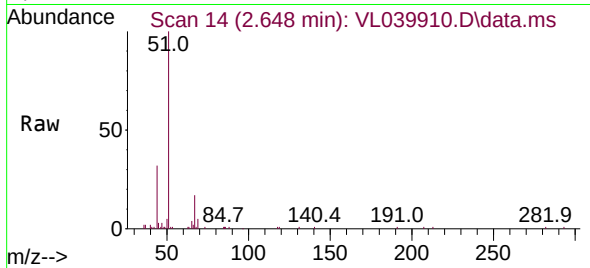




#3
Chlorodifluoromethane
Concen: 0.378 ppbv
RT: 2.648 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL039910.D
Acq: 21 Nov 2022 14:58

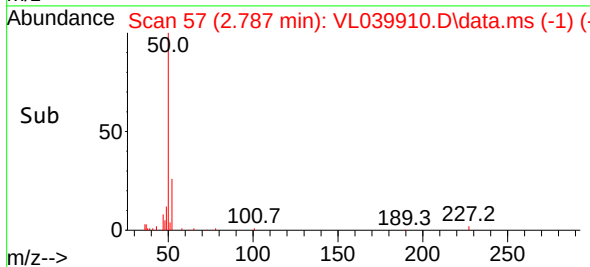
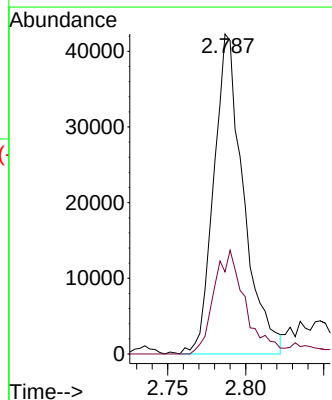
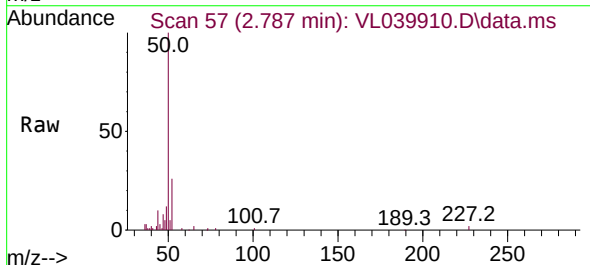
Instrument :
MSVOA_L
ClientSampleId :
IA2

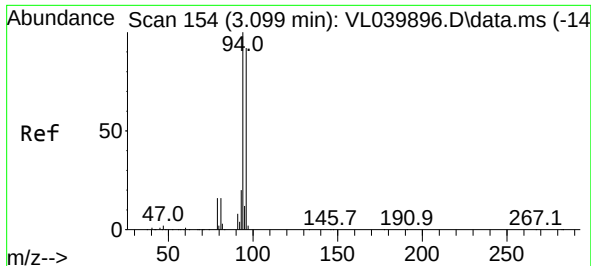
Tgt Ion: 51 Resp: 54736
Ion Ratio Lower Upper
51 100
67 17.4 14.2 21.4



#4
Chloromethane
Concen: 0.604 ppbv
RT: 2.787 min Scan# 57
Delta R.T. 0.006 min
Lab File: VL039910.D
Acq: 21 Nov 2022 14:58

Tgt Ion: 50 Resp: 55921
Ion Ratio Lower Upper
50 100
52 25.7 27.8 41.8#

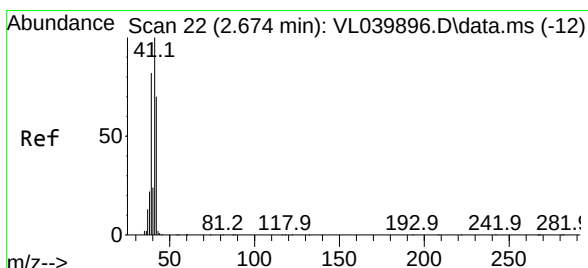
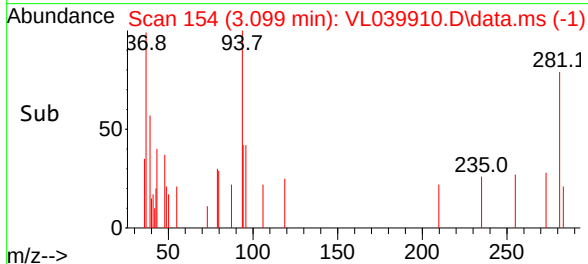
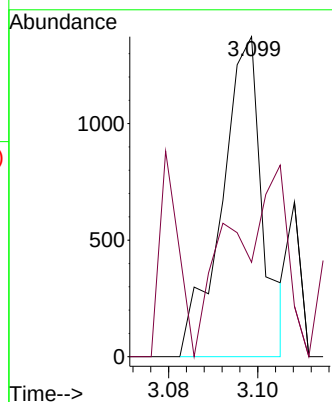
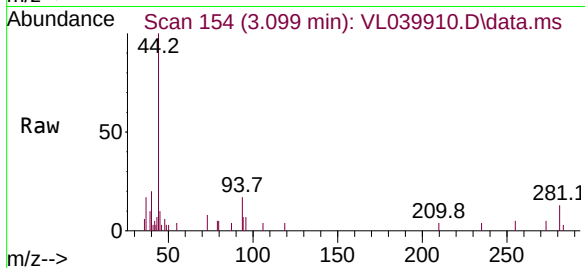




#6
Bromomethane
Concen: 0.035 ppbv
RT: 3.099 min Scan# 11
Delta R.T. 0.013 min
Lab File: VL039910.D
Acq: 21 Nov 2022 14:58

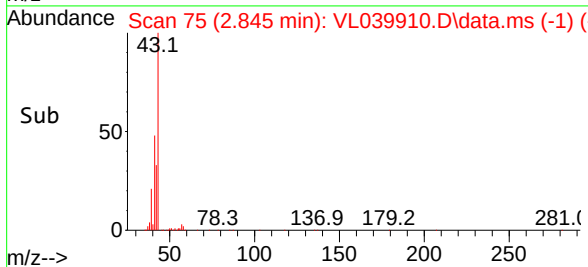
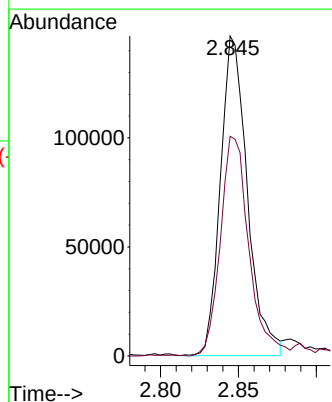
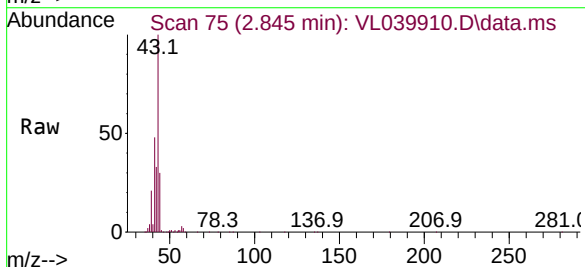
Instrument :
MSVOA_L
ClientSampleId :
IA2

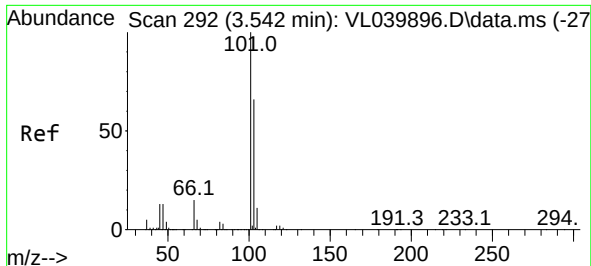
Tgt Ion: 94 Resp: 872
Ion Ratio Lower Upper
94 100
96 0.0 73.7 110.5#



#9
Propene
Concen: 2.581 ppbv
RT: 2.845 min Scan# 75
Delta R.T. 0.183 min
Lab File: VL039910.D
Acq: 21 Nov 2022 14:58

Tgt Ion: 41 Resp: 176120
Ion Ratio Lower Upper
41 100
42 77.8 55.8 83.6

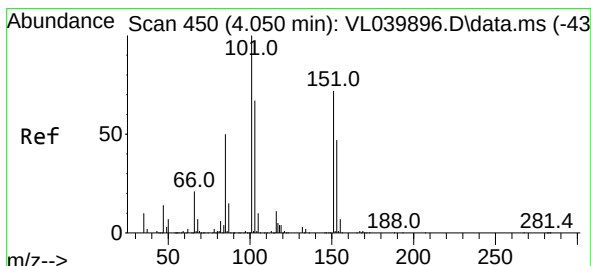
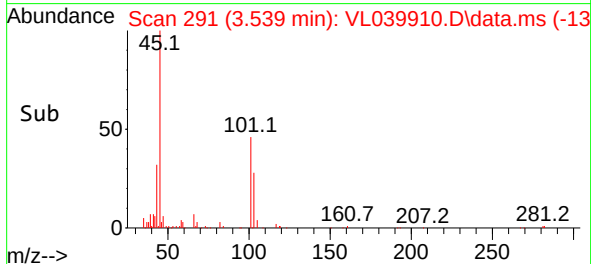
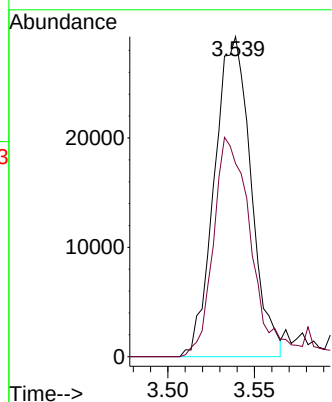
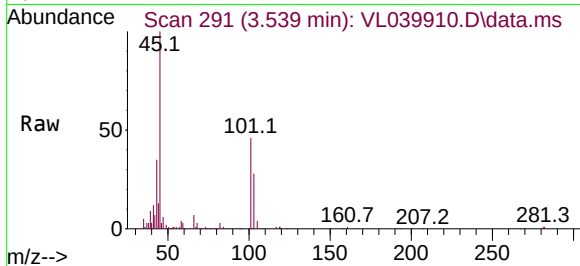




#11
 Trichlorofluoromethane
 Concen: 0.233 ppbv
 RT: 3.539 min Scan# 291
 Delta R.T. 0.010 min
 Lab File: VL039910.D
 Acq: 21 Nov 2022 14:58

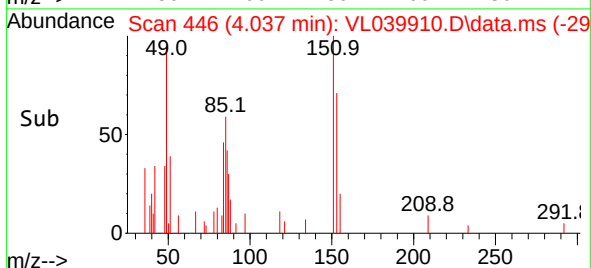
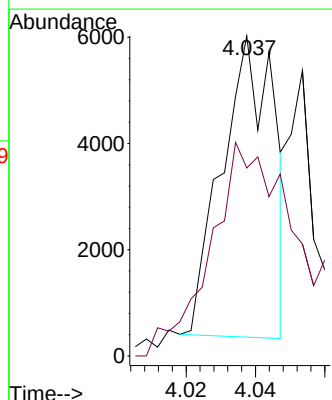
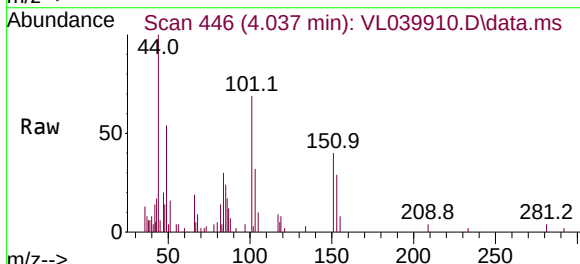
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

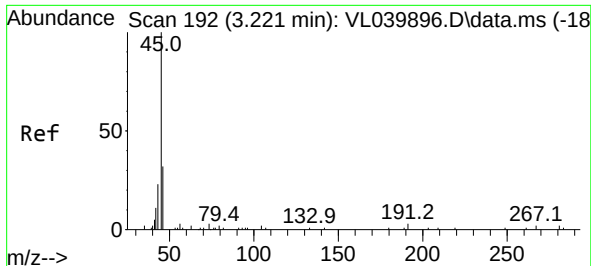
Tgt Ion:101 Resp: 42815
 Ion Ratio Lower Upper
 101 100
 103 60.3 52.6 78.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.043 ppbv
 RT: 4.037 min Scan# 446
 Delta R.T. 0.003 min
 Lab File: VL039910.D
 Acq: 21 Nov 2022 14:58

Tgt Ion:101 Resp: 5900
 Ion Ratio Lower Upper
 101 100
 151 118.3 59.6 89.4#

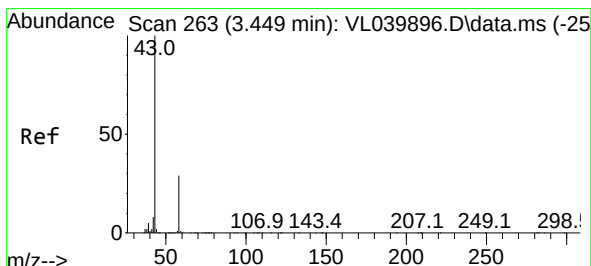
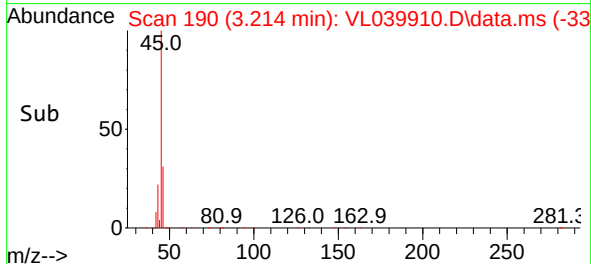
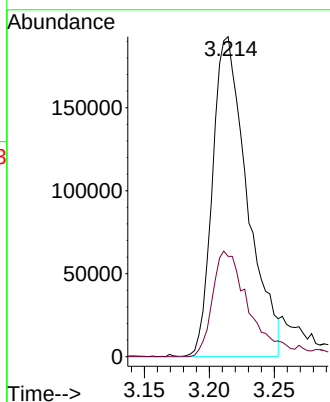
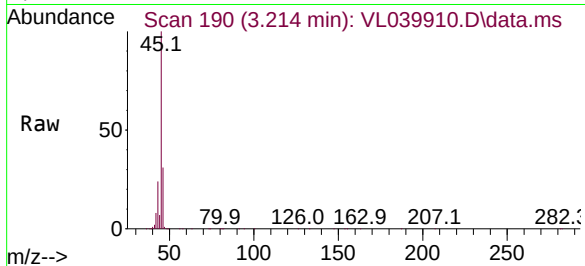




#13
Ethanol
Concen: 68.571 ppbv
RT: 3.214 min Scan# 190
Delta R.T. 0.006 min
Lab File: VL039910.D
Acq: 21 Nov 2022 14:58

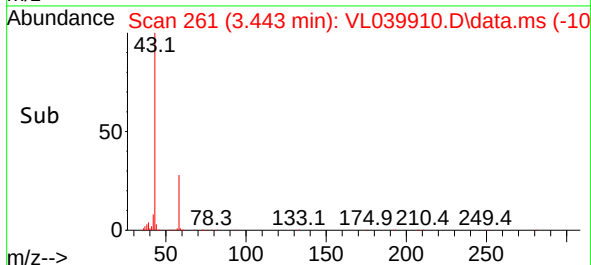
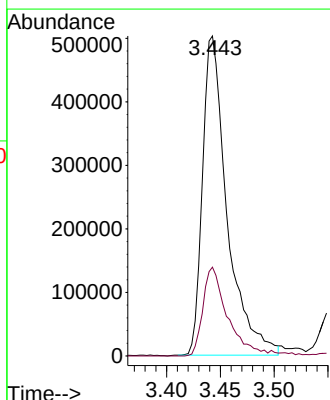
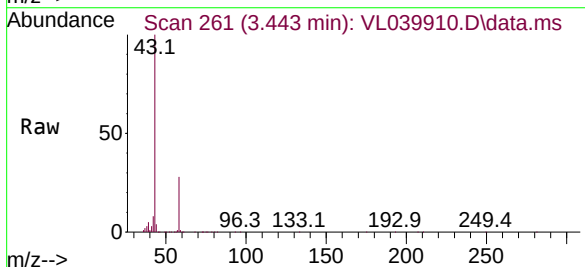
Instrument :
MSVOA_L
ClientSampleId :
IA2

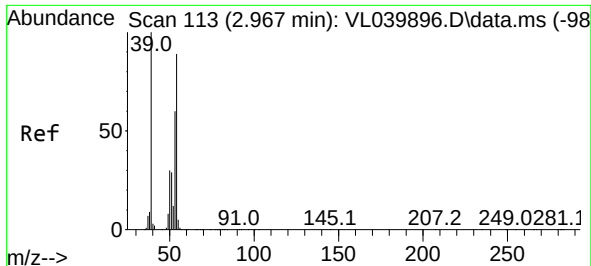
Tgt Ion: 45 Resp: 357237
Ion Ratio Lower Upper
45 100
46 38.4 14.6 58.2



#15
Acetone
Concen: 5.753 ppbv
RT: 3.443 min Scan# 261
Delta R.T. 0.010 min
Lab File: VL039910.D
Acq: 21 Nov 2022 14:58

Tgt Ion: 43 Resp: 801010
Ion Ratio Lower Upper
43 100
58 28.6 22.9 34.3





#16

1,3-Butadiene

Concen: 0.053 ppbv

RT: 2.941 min Scan# 105

Delta R.T. -0.013 min

Lab File: VL039910.D

Acq: 21 Nov 2022 14:58

Instrument :

MSVOA_L

ClientSampleId :

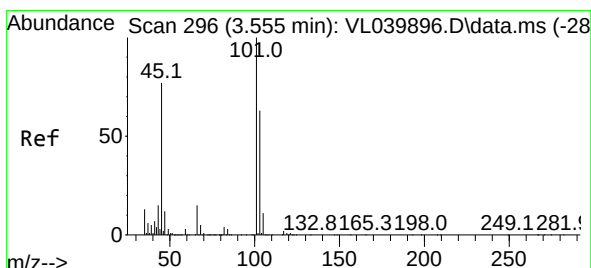
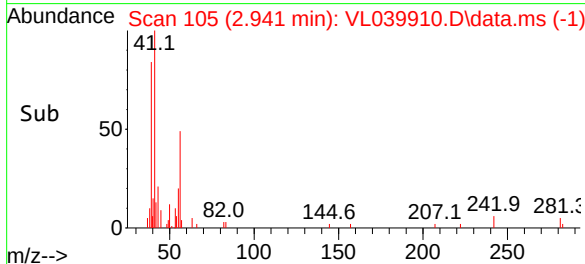
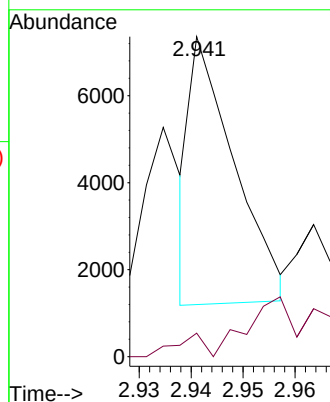
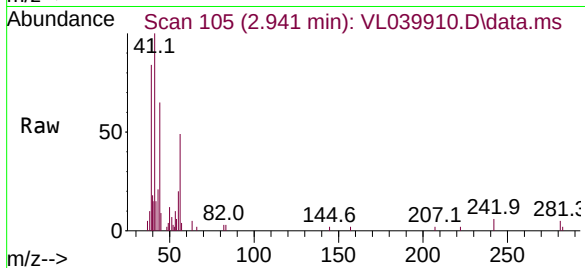
IA2

Tgt Ion: 39 Resp: 3667

Ion Ratio Lower Upper

39 100

54 74.8 66.6 99.8



#19

Isopropyl Alcohol

Concen: 7.843 ppbv

RT: 3.555 min Scan# 296

Delta R.T. 0.013 min

Lab File: VL039910.D

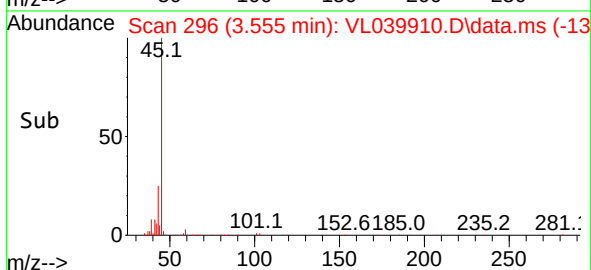
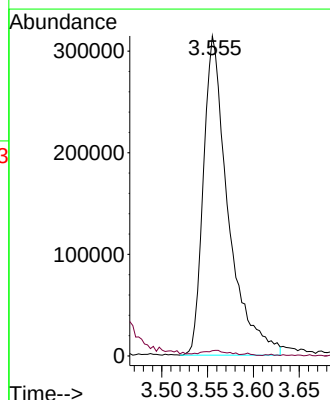
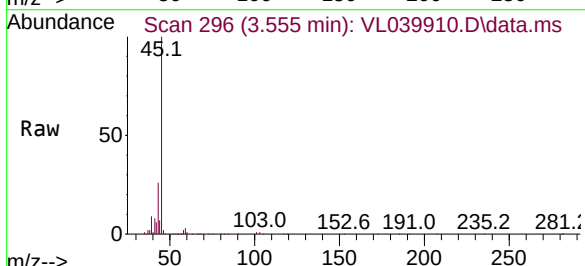
Acq: 21 Nov 2022 14:58

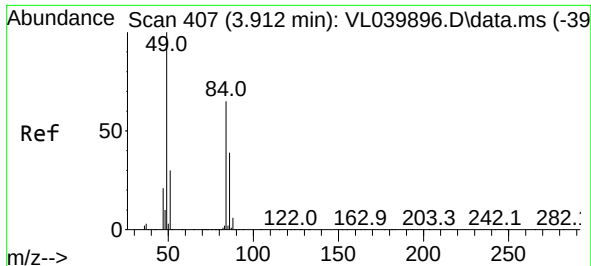
Tgt Ion: 45 Resp: 591266

Ion Ratio Lower Upper

45 100

58 2.5 38.7 58.1#

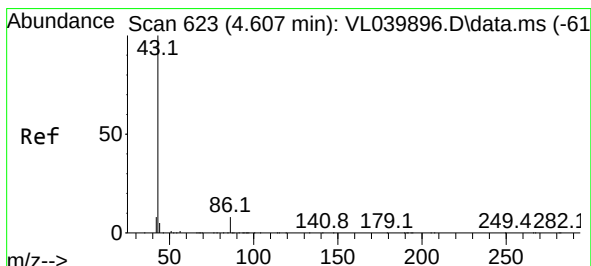
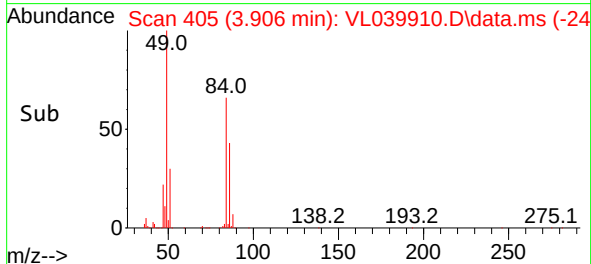
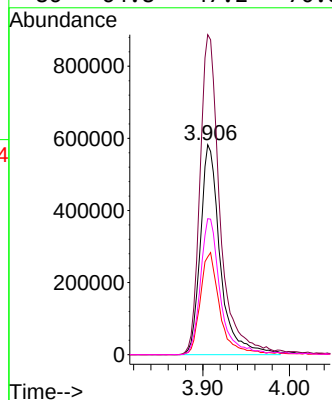
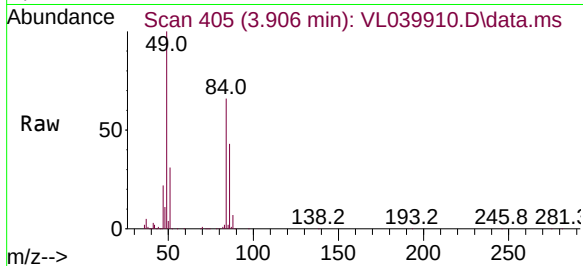




#20
Methylene Chloride
Concen: 13.781 ppbv
RT: 3.906 min Scan# 407
Delta R.T. 0.006 min
Lab File: VL039910.D
Acq: 21 Nov 2022 14:58

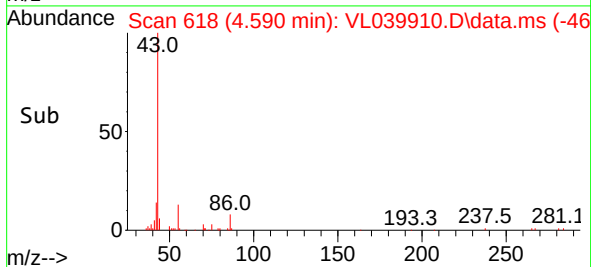
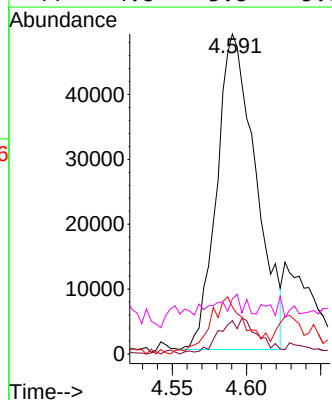
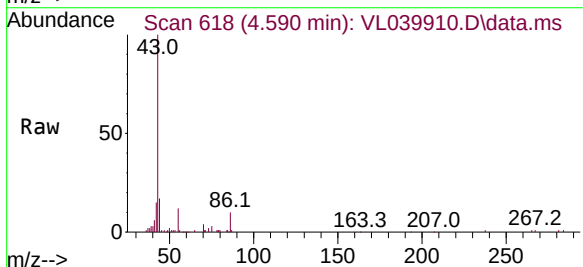
Instrument :
MSVOA_L
ClientSampleId :
IA2

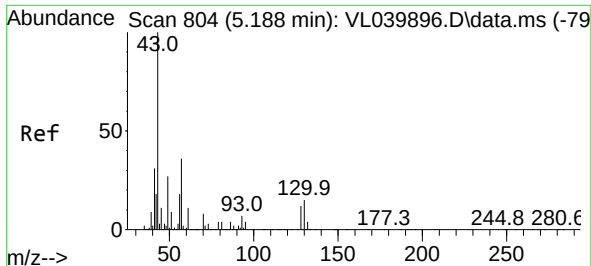
Tgt Ion: 84 Resp: 929683
Ion Ratio Lower Upper
84 100
49 152.3 122.2 183.4
51 46.5 36.3 54.5
86 64.8 47.2 70.8



#23
Vinyl Acetate
Concen: 1.557 ppbv
RT: 4.590 min Scan# 618
Delta R.T. -0.000 min
Lab File: VL039910.D
Acq: 21 Nov 2022 14:58

Tgt Ion: 43 Resp: 89084
Ion Ratio Lower Upper
43 100
86 10.5 5.0 7.4#
42 13.6 7.6 11.4#
44 4.8 3.8 5.6

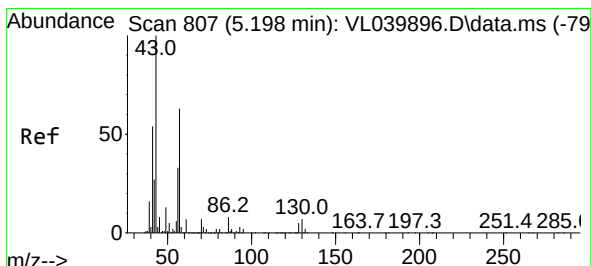
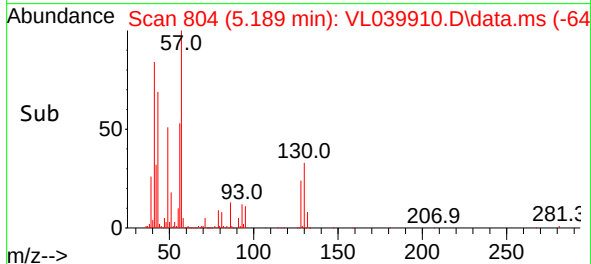
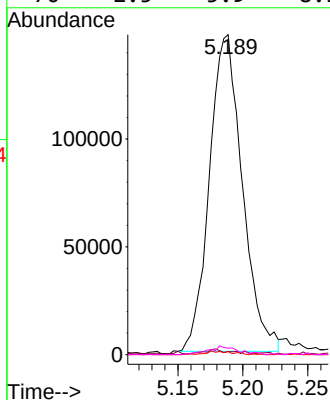
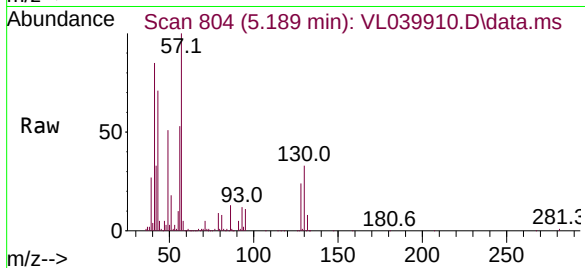




#25
Ethyl Acetate
Concen: 1.012 ppbv
RT: 5.189 min Scan# 804
Delta R.T. 0.019 min
Lab File: VL039910.D
Acq: 21 Nov 2022 14:58

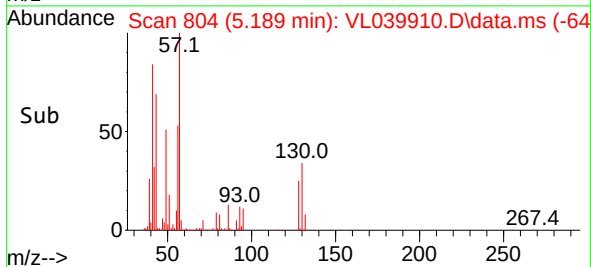
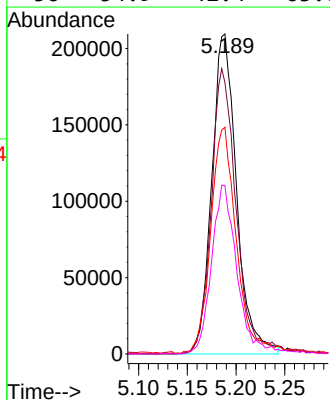
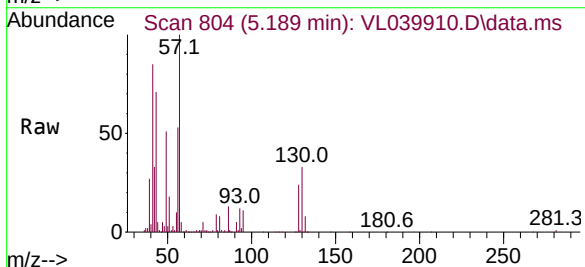
Instrument :
MSVOA_L
ClientSampleId :
IA2

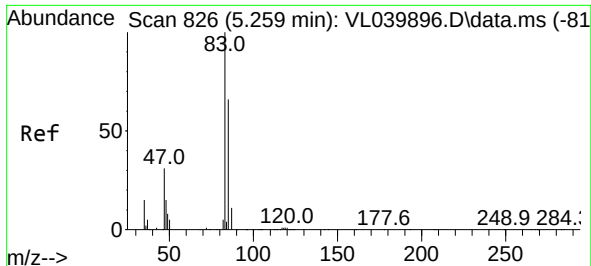
Tgt Ion: 43 Resp: 258665
Ion Ratio Lower Upper
43 100
45 1.7 8.4 12.6#
61 1.0 8.5 12.7#
70 2.5 5.9 8.9#



#26
Hexane
Concen: 3.322 ppbv
RT: 5.189 min Scan# 804
Delta R.T. 0.006 min
Lab File: VL039910.D
Acq: 21 Nov 2022 14:58

Tgt Ion: 57 Resp: 371026
Ion Ratio Lower Upper
57 100
41 90.2 72.3 108.5
43 74.6 188.7 283.1#
56 54.9 42.4 63.6





#29

Chloroform

Concen: 0.229 ppbv

RT: 5.250 min Scan# 81

Delta R.T. 0.010 min

Lab File: VL039910.D

Acq: 21 Nov 2022 14:58

Instrument :

MSVOA_L

ClientSampleId :

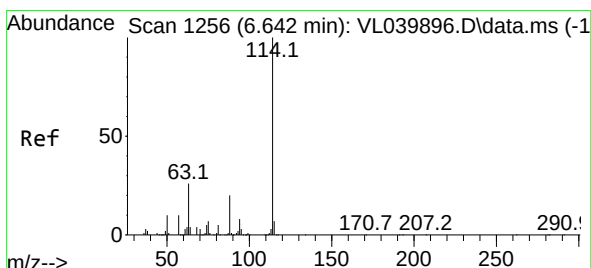
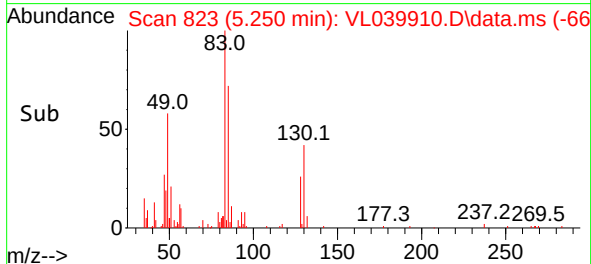
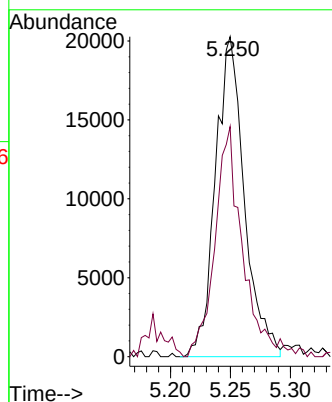
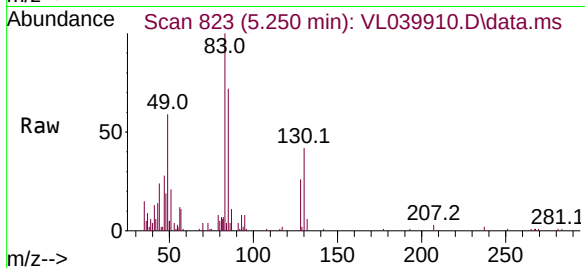
IA2

Tgt Ion: 83 Resp: 34006

Ion Ratio Lower Upper

83 100

85 70.5 52.4 78.6



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.629 min Scan# 1252

Delta R.T. 0.010 min

Lab File: VL039910.D

Acq: 21 Nov 2022 14:58

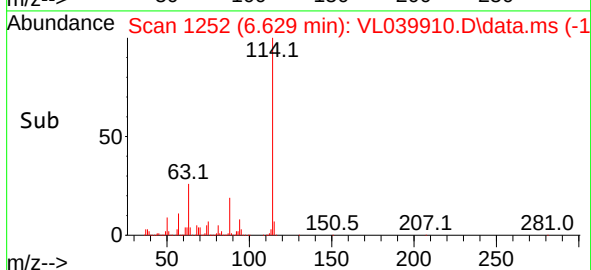
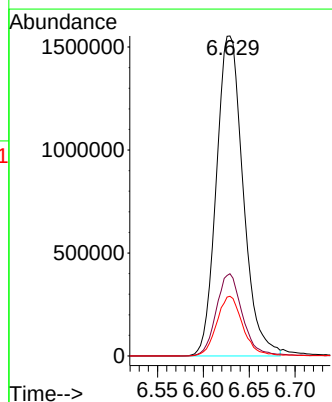
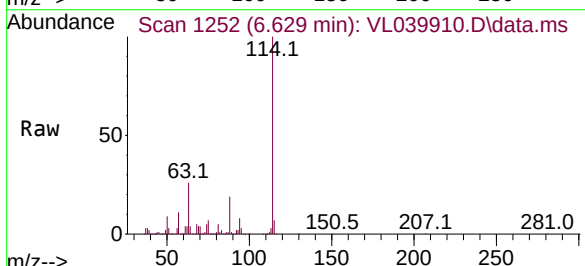
Tgt Ion: 114 Resp: 3156753

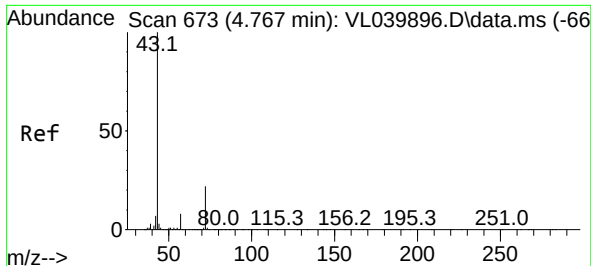
Ion Ratio Lower Upper

114 100

63 25.4 21.4 32.0

88 18.4 15.3 22.9

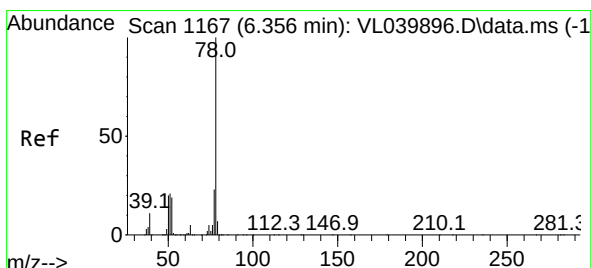
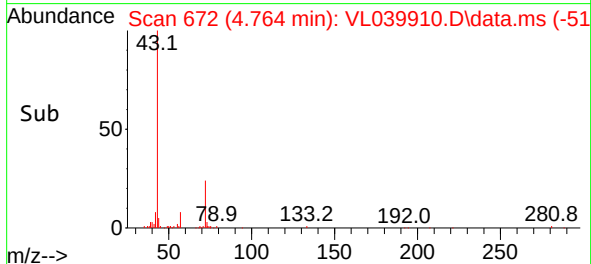
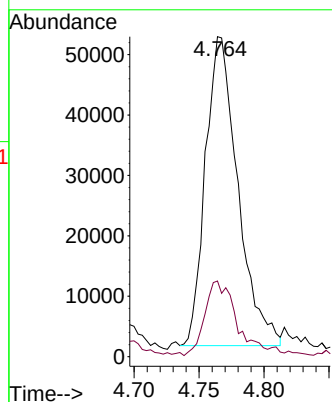
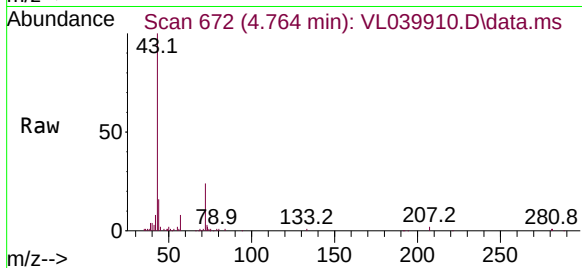




#34
2-Butanone
Concen: 0.589 ppbv
RT: 4.764 min Scan# 61
Delta R.T. 0.013 min
Lab File: VL039910.D
Acq: 21 Nov 2022 14:58

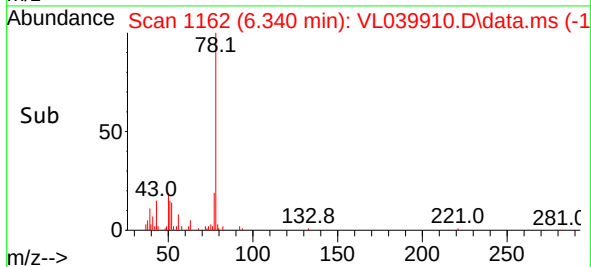
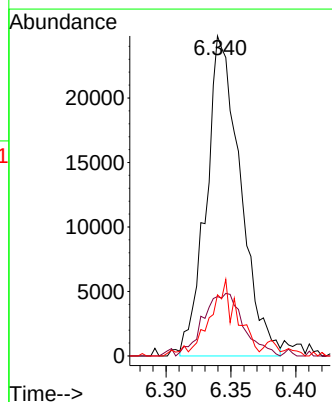
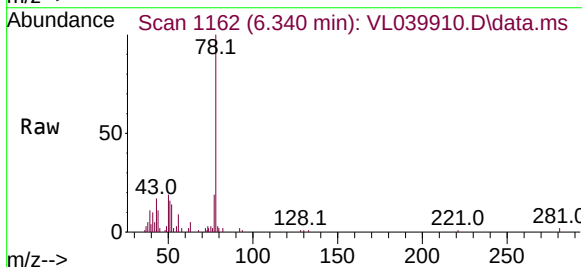
Instrument :
MSVOA_L
ClientSampleId :
IA2

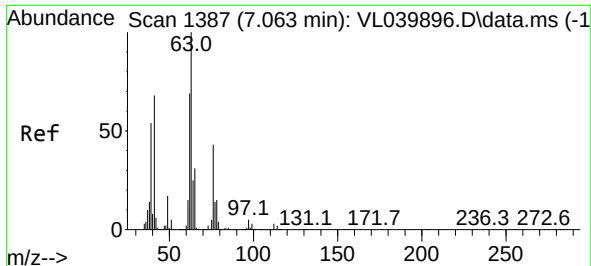
Tgt Ion: 43 Resp: 88917
Ion Ratio Lower Upper
43 100
72 26.7 17.4 26.2#



#36
Benzene
Concen: 0.169 ppbv
RT: 6.340 min Scan# 1162
Delta R.T. 0.003 min
Lab File: VL039910.D
Acq: 21 Nov 2022 14:58

Tgt Ion: 78 Resp: 45425
Ion Ratio Lower Upper
78 100
77 18.8 18.2 27.2
50 18.0 15.8 23.8





#39

1,2-Dichloropropane

Concen: 7.498 ppbv

RT: 6.629 min Scan# 11

Delta R.T. -0.412 min

Lab File: VL039910.D

Acq: 21 Nov 2022 14:58

Instrument :

MSVOA_L

ClientSampleId :

IA2

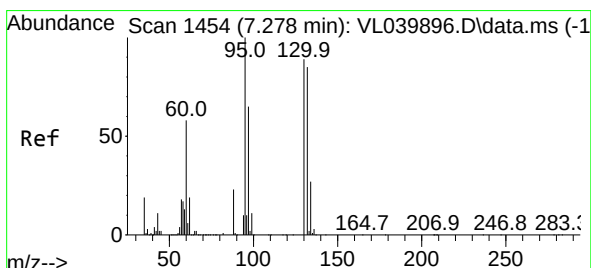
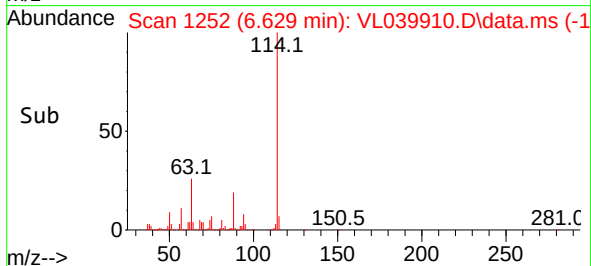
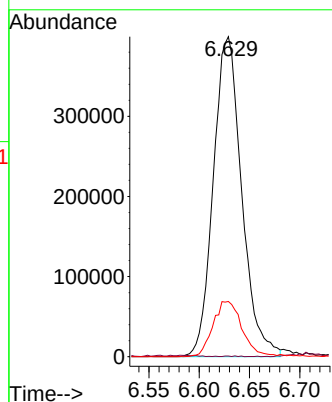
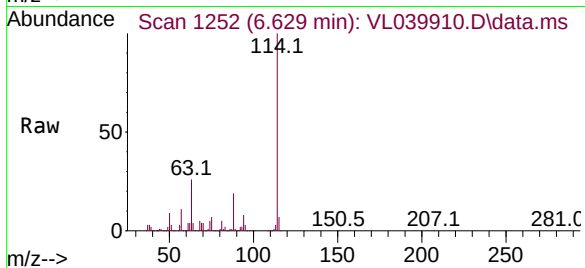
Tgt Ion: 63 Resp: 783868

Ion Ratio Lower Upper

63 100

41 0.0 54.7 82.1#

62 17.2 55.0 82.6#



#40

1,4-Dioxane

Concen: 0.079 ppbv

RT: 7.307 min Scan# 1463

Delta R.T. 0.051 min

Lab File: VL039910.D

Acq: 21 Nov 2022 14:58

Tgt Ion: 88 Resp: 3279

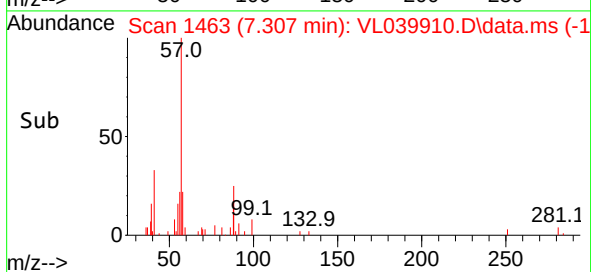
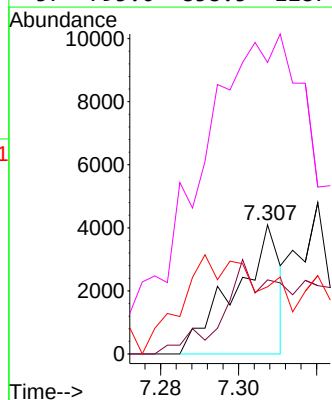
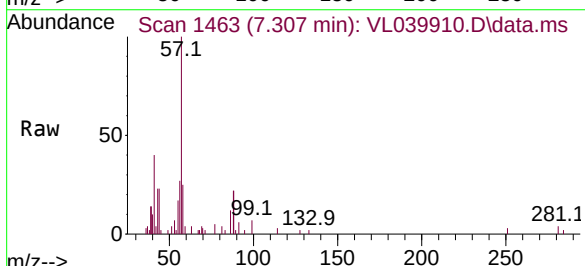
Ion Ratio Lower Upper

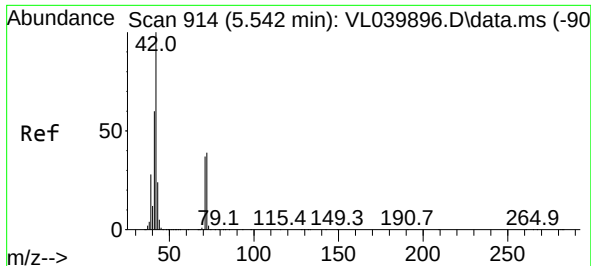
88 100

58 214.9 100.5 150.7#

43 0.0 195.8 293.8#

57 795.0 858.5 1287.7#





#41

Tetrahydrofuran

Concen: 1.326 ppbv

RT: 5.185 min Scan# 80

Delta R.T. -0.338 min

Lab File: VL039910.D

Acq: 21 Nov 2022 14:58

Instrument :

MSVOA_L

ClientSampleId :

IA2

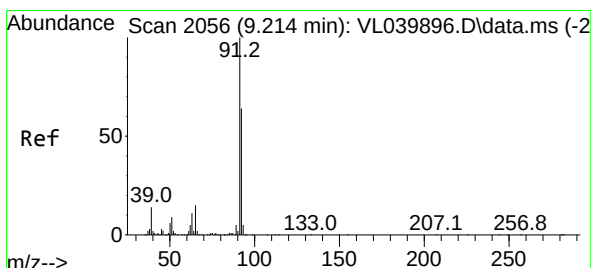
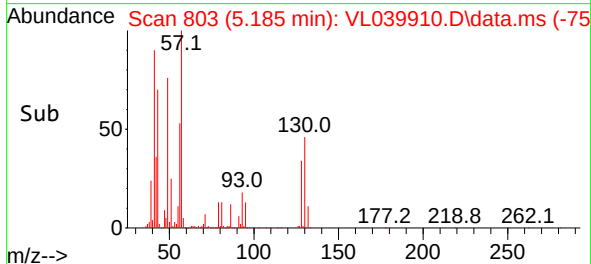
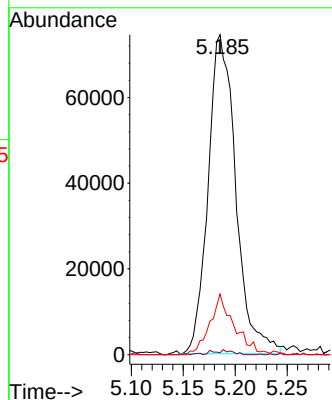
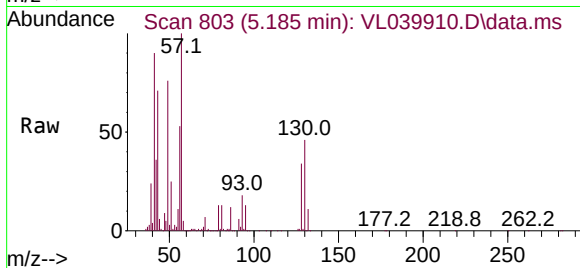
Tgt Ion: 42 Resp: 138274

Ion Ratio Lower Upper

42 100

72 1.2 31.6 47.4#

71 17.0 31.2 46.8#



#53

Toluene

Concen: 0.278 ppbv

RT: 9.198 min Scan# 2051

Delta R.T. 0.006 min

Lab File: VL039910.D

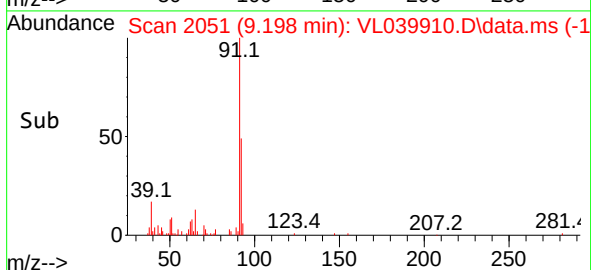
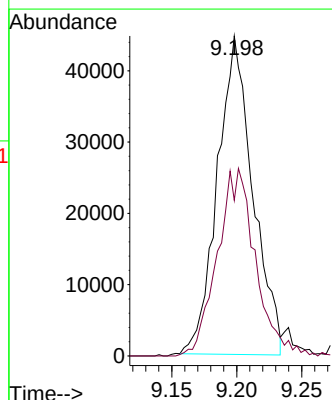
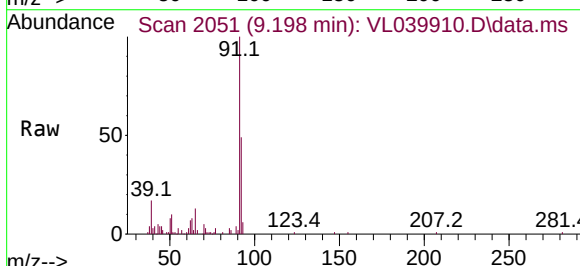
Acq: 21 Nov 2022 14:58

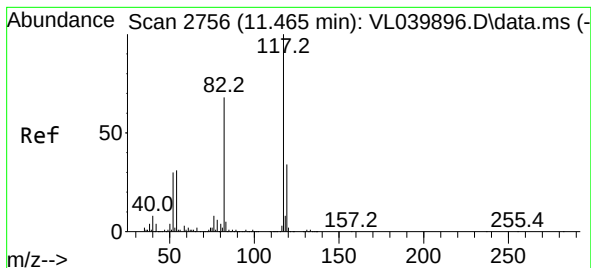
Tgt Ion: 91 Resp: 84996

Ion Ratio Lower Upper

91 100

92 63.3 49.8 74.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.449 min Scan# 21

Delta R.T. 0.010 min

Lab File: VL039910.D

Acq: 21 Nov 2022 14:58

Instrument :

MSVOA_L

ClientSampleId :

IA2

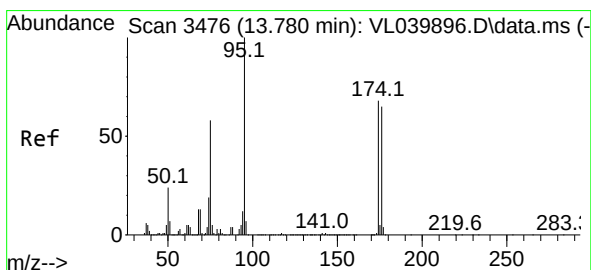
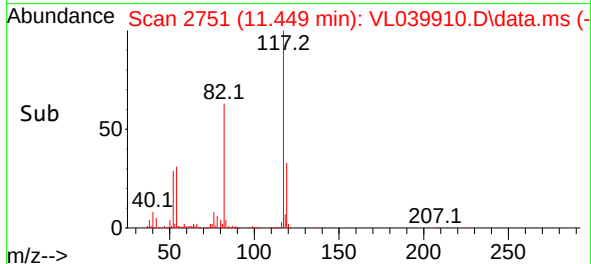
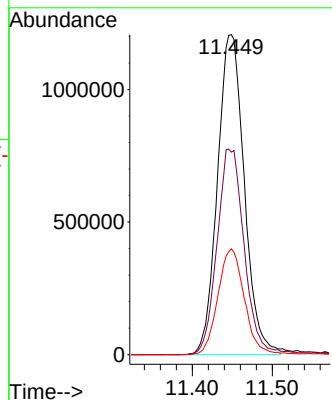
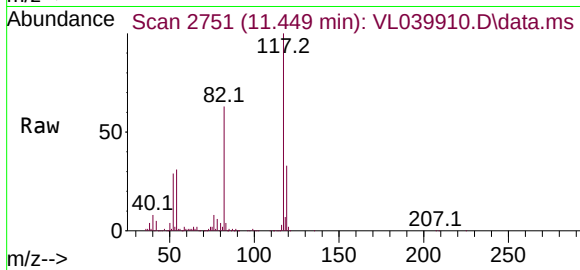
Tgt Ion:117 Resp: 2807830

Ion Ratio Lower Upper

117 100

82 66.0 52.3 78.5

119 33.0 25.7 38.5



#68

1-Bromo-4-Fluorobenzene

Concen: 10.140 ppbv

RT: 13.761 min Scan# 3470

Delta R.T. 0.006 min

Lab File: VL039910.D

Acq: 21 Nov 2022 14:58

Tgt Ion: 95 Resp: 2174597

Ion Ratio Lower Upper

95 100

174 63.2 53.7 80.5

175 4.6 4.0 6.0

