

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112122\
 Data File : VL039913.D
 Acq On : 21 Nov 2022 17:04
 Operator : SY/AP
 Sample : N5724-03 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Quant Time: Nov 22 03:49:29 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

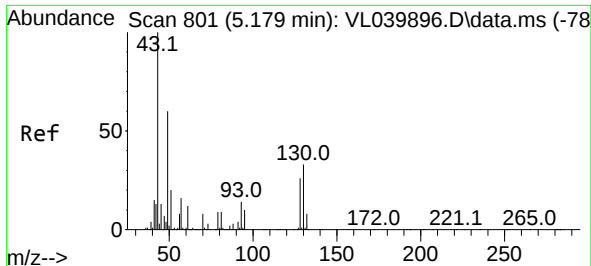
Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards							
1) Bromochloromethane		5.166	49	992761	10.000	ppbv	0.01
33) 1,4-Difluorobenzene		6.629	114	3119159	10.000	ppbv	0.00
55) Chlorobenzene-d5		11.446	117	2791438	10.000	ppbv	0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		13.764	95	2248352	10.545	ppbv	0.00
Spiked Amount		10.000	Range	65 - 135	Recovery	=	105.500%
Target Compounds							
							Qvalue
3) Chlorodifluoromethane		2.652	51	11643	0.085	ppbv	96
4) Chloromethane		2.790	50	3807	0.043	ppbv #	77
7) Chloroethane		3.176	64	966	0.036	ppbv #	41
9) Propene		2.671	41	24759	0.384	ppbv	95
10) Heptane		7.558	43	36036	0.231	ppbv #	66
11) Trichlorofluoromethane		3.539	101	11251	0.065	ppbv	86
13) Ethanol		3.227	45	5033	1.022	ppbv #	38
15) Acetone		3.443	43	1374744	10.440	ppbv	99
16) 1,3-Butadiene		2.977	39	4374	0.067	ppbv #	8
20) Methylene Chloride		3.906	84	143013	2.242	ppbv	86
23) Vinyl Acetate		4.594	43	20445	0.378	ppbv #	53
25) Ethyl Acetate		5.189	43	280847	1.162	ppbv #	74
26) Hexane		5.189	57	412498	3.906	ppbv #	34
27) Carbon Disulfide		4.105	76	13190	0.099	ppbv #	1
29) Chloroform		5.253	83	9015	0.064	ppbv #	60
30) Cyclohexane		6.584	84	6178	0.060	ppbv #	1
34) 2-Butanone		4.774	43	48082	0.322	ppbv #	87
36) Benzene		6.343	78	76002	0.287	ppbv	93
39) 1,2-Dichloropropane		6.626	63	780085	7.552	ppbv #	26
44) 2,2,4-Trimethylpentane		7.304	57	14339	0.032	ppbv #	1
53) Toluene		9.201	91	384989	1.275	ppbv	100
58) Ethyl Benzene		12.069	91	82821	0.219	ppbv #	88
59) m/p-Xylene		12.359	91	46697	0.147	ppbv #	30
60) o-Xylene		13.040	91	166224	0.550	ppbv	100
64) n-propylbenzene		14.896	120	13924	0.122	ppbv	89
65) tert-Butylbenzene		16.095	119	25016	0.066	ppbv #	1
70) n-Butylbenzene		17.883	91	15330	0.036	ppbv #	33
72) 4-Ethyltoluene		15.185	105	27128	0.080	ppbv #	50
73) 1,3,5-Trimethylbenzene		15.336	105	73672	0.237	ppbv	89
74) 1,2,4-Trimethylbenzene		16.095	105	304465	0.925	ppbv #	74
79) Naphthalene		21.387	128	8383	0.043	ppbv #	64
80) Naphthalene, 2-methyl-		24.378	142	2895	0.052	ppbv #	78

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

Quant Time: Nov 22 03:49:29 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Nov 22 03:45:31 2022
Response via : Initial Calibration

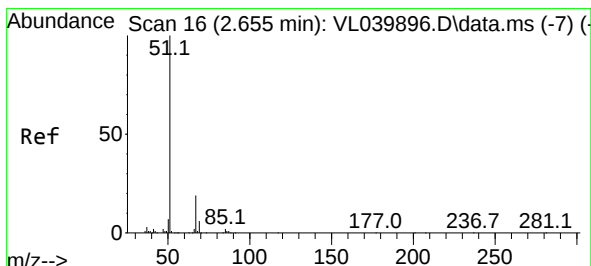
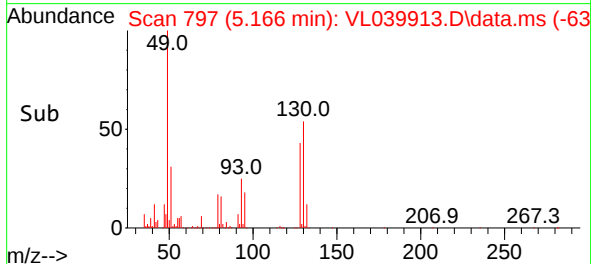
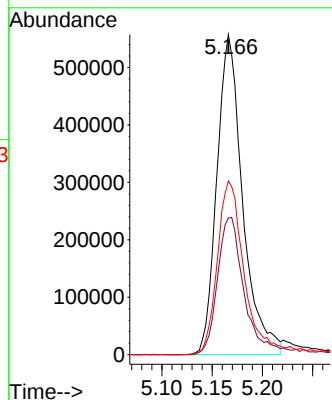
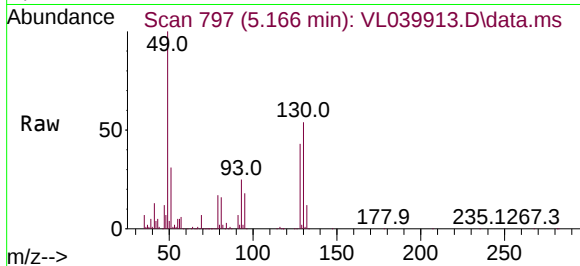




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.166 min Scan# 79
Delta R.T. 0.010 min
Lab File: VL039913.D
Acq: 21 Nov 2022 17:04

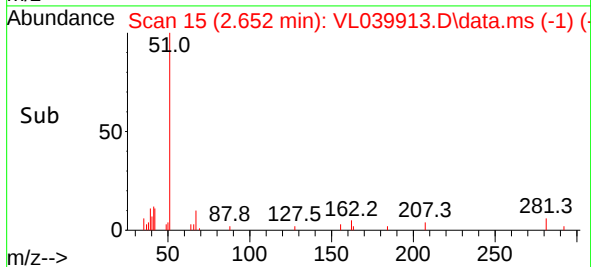
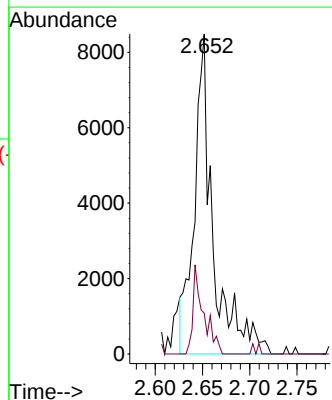
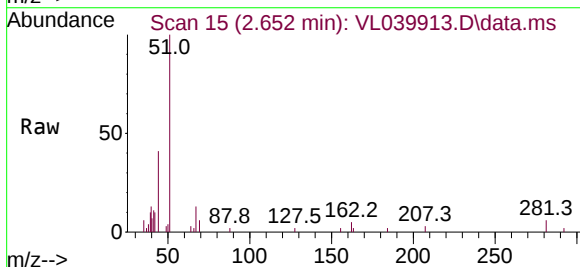
Instrument :
MSVOA_L
ClientSampleId :
SV1

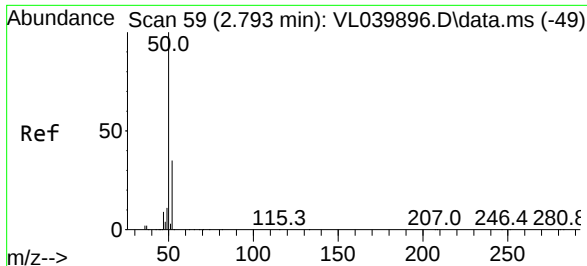
Tgt Ion: 49 Resp: 992761
Ion Ratio Lower Upper
49 100
128 47.0 22.1 66.3
130 59.3 27.7 83.1



#3
Chlorodifluoromethane
Concen: 0.085 ppbv
RT: 2.652 min Scan# 15
Delta R.T. 0.010 min
Lab File: VL039913.D
Acq: 21 Nov 2022 17:04

Tgt Ion: 51 Resp: 11643
Ion Ratio Lower Upper
51 100
67 16.0 14.2 21.4

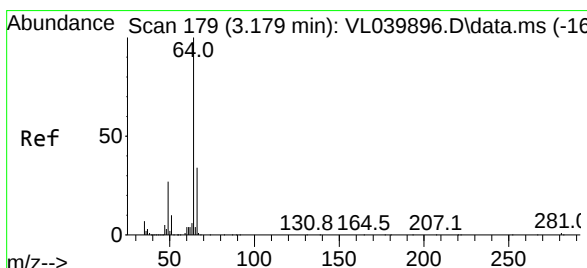
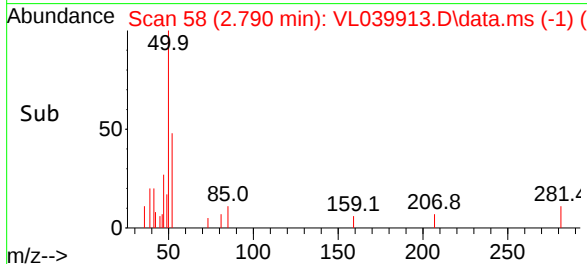
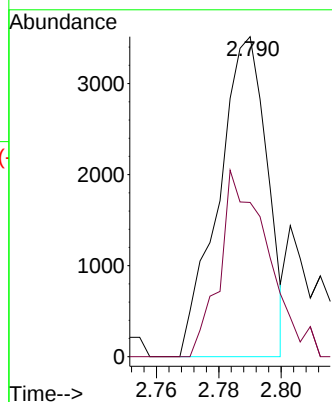
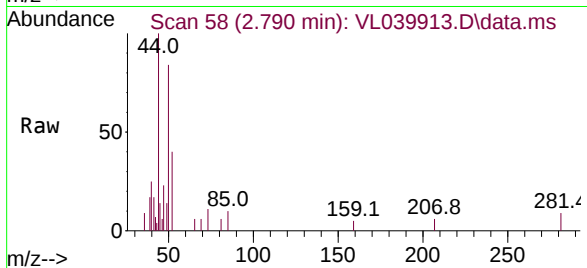




#4
Chloromethane
Concen: 0.043 ppbv
RT: 2.790 min Scan# 59
Delta R.T. 0.010 min
Lab File: VL039913.D
Acq: 21 Nov 2022 17:04

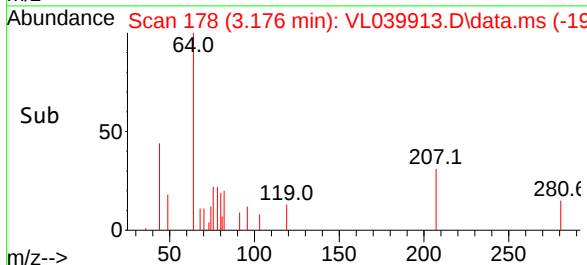
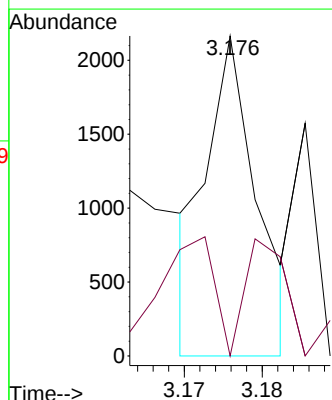
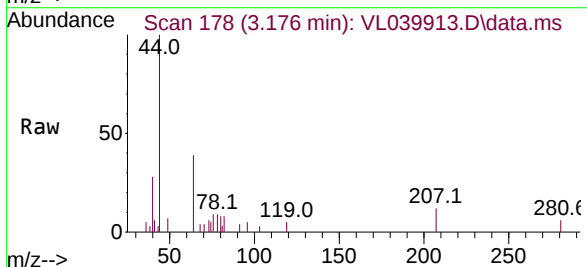
Instrument :
MSVOA_L
ClientSampleId :
SV1

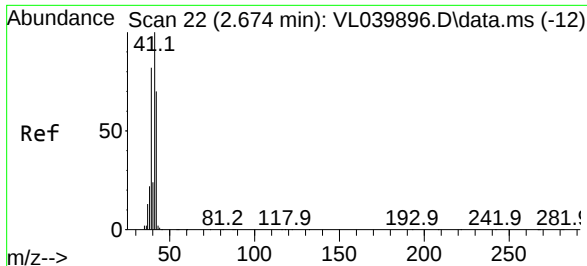
Tgt Ion: 50 Resp: 3807
Ion Ratio Lower Upper
50 100
52 48.2 27.8 41.8#



#7
Chloroethane
Concen: 0.036 ppbv
RT: 3.176 min Scan# 178
Delta R.T. 0.010 min
Lab File: VL039913.D
Acq: 21 Nov 2022 17:04

Tgt Ion: 64 Resp: 966
Ion Ratio Lower Upper
64 100
66 0.0 27.3 40.9#

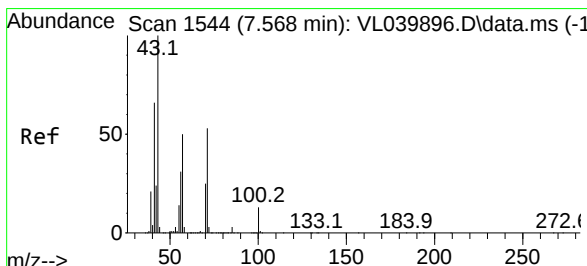
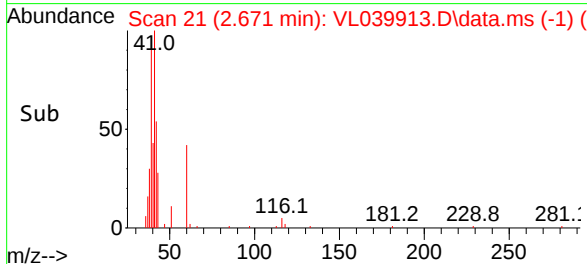
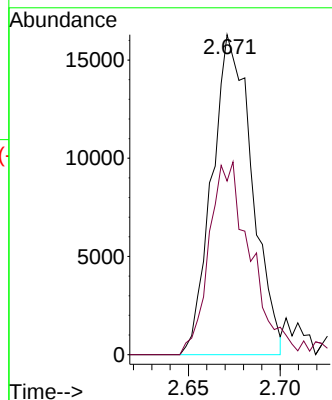
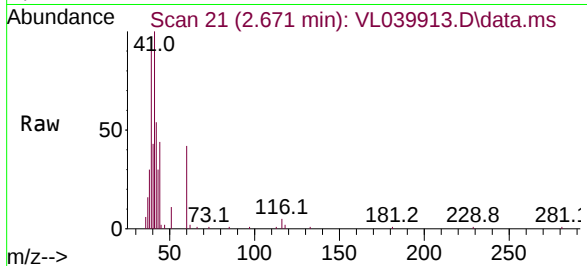




#9
 Propene
 Concen: 0.384 ppbv
 RT: 2.671 min Scan# 21
 Delta R.T. 0.010 min
 Lab File: VL039913.D
 Acq: 21 Nov 2022 17:04

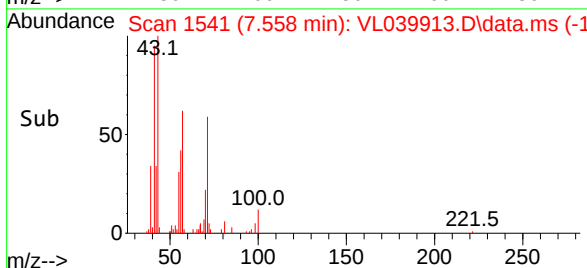
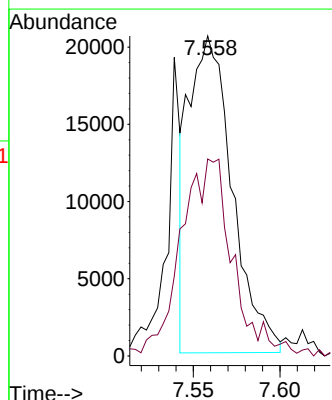
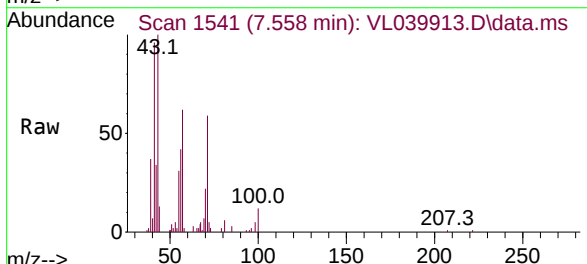
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

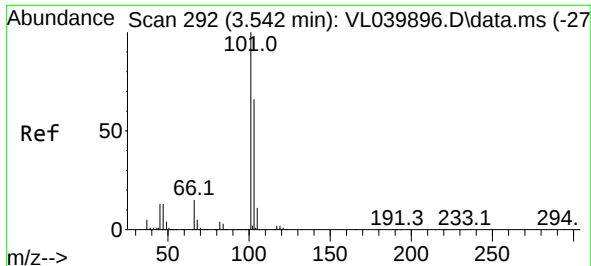
Tgt Ion: 41 Resp: 24759
 Ion Ratio Lower Upper
 41 100
 42 65.7 55.8 83.6



#10
 Heptane
 Concen: 0.231 ppbv
 RT: 7.558 min Scan# 1541
 Delta R.T. 0.013 min
 Lab File: VL039913.D
 Acq: 21 Nov 2022 17:04

Tgt Ion: 43 Resp: 36036
 Ion Ratio Lower Upper
 43 100
 57 74.2 40.7 61.1#

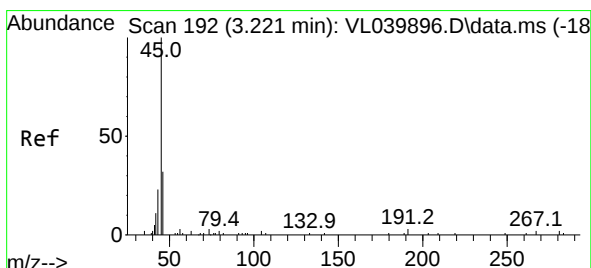
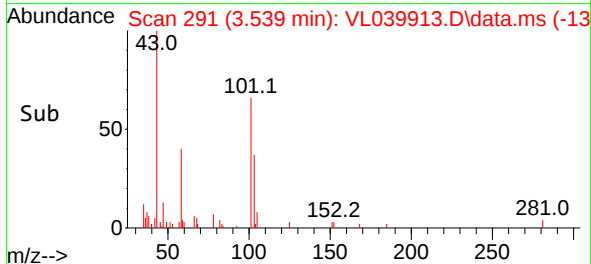
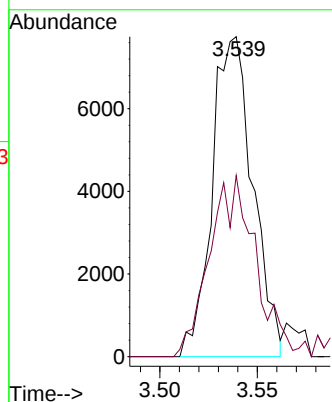
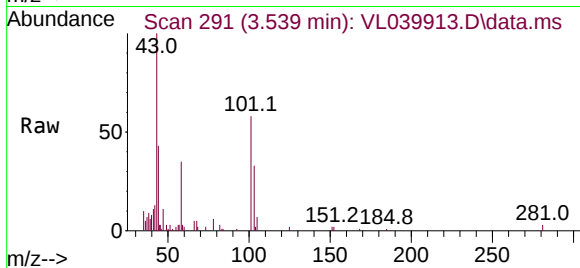




#11
 Trichlorofluoromethane
 Concen: 0.065 ppbv
 RT: 3.539 min Scan# 291
 Delta R.T. 0.010 min
 Lab File: VL039913.D
 Acq: 21 Nov 2022 17:04

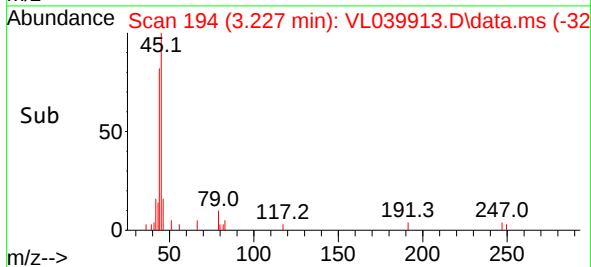
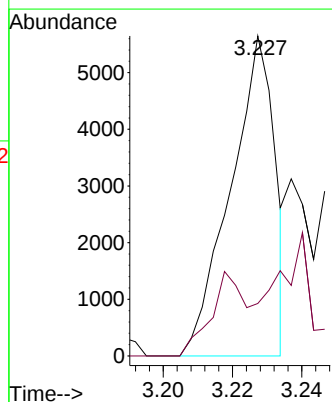
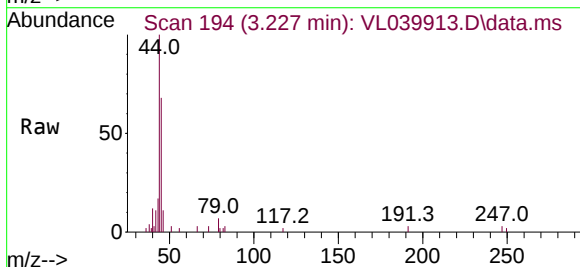
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

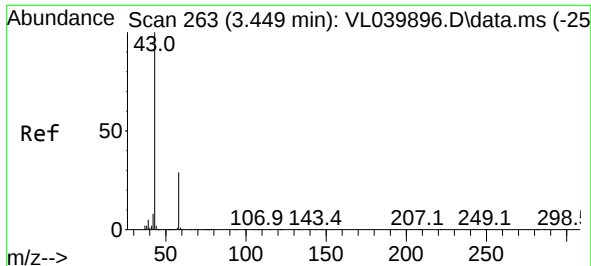
Tgt Ion:101 Resp: 11251
 Ion Ratio Lower Upper
 101 100
 103 54.3 52.6 78.8



#13
 Ethanol
 Concen: 1.022 ppbv
 RT: 3.227 min Scan# 194
 Delta R.T. 0.019 min
 Lab File: VL039913.D
 Acq: 21 Nov 2022 17:04

Tgt Ion: 45 Resp: 5033
 Ion Ratio Lower Upper
 45 100
 46 0.0 14.6 58.2#

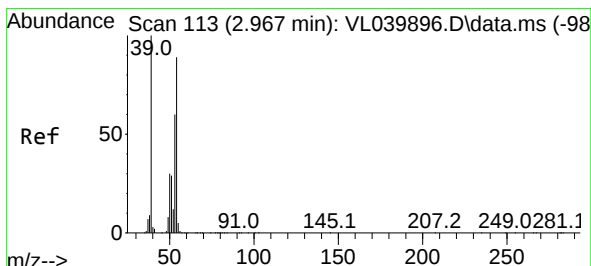
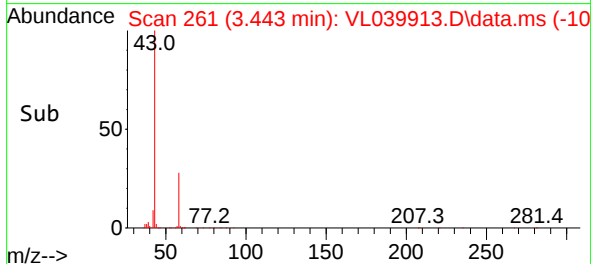
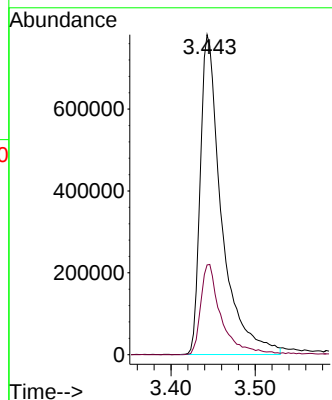
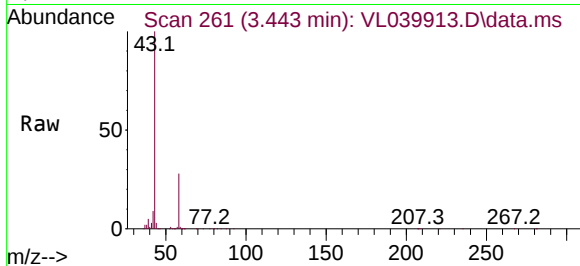




#15
Acetone
Concen: 10.440 ppbv
RT: 3.443 min Scan# 20
Delta R.T. 0.010 min
Lab File: VL039913.D
Acq: 21 Nov 2022 17:04

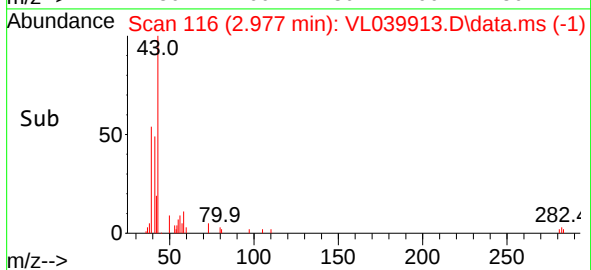
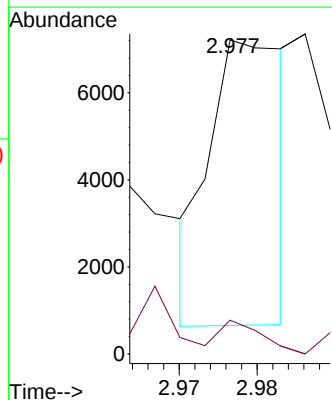
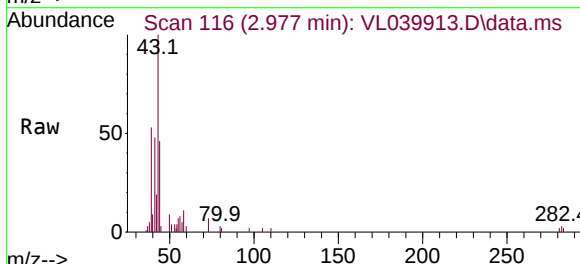
Instrument :
MSVOA_L
ClientSampleId :
SV1

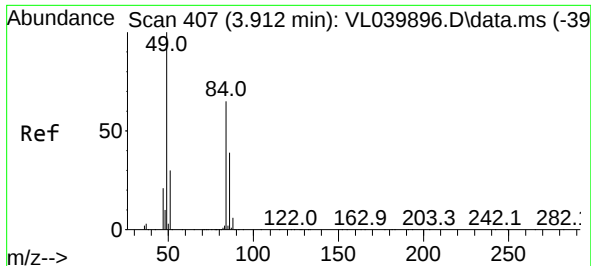
Tgt Ion: 43 Resp: 1374744
Ion Ratio Lower Upper
43 100
58 28.2 22.9 34.3



#16
1,3-Butadiene
Concen: 0.067 ppbv
RT: 2.977 min Scan# 116
Delta R.T. 0.023 min
Lab File: VL039913.D
Acq: 21 Nov 2022 17:04

Tgt Ion: 39 Resp: 4374
Ion Ratio Lower Upper
39 100
54 0.0 66.6 99.8#

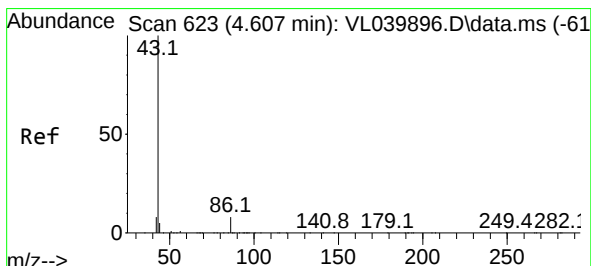
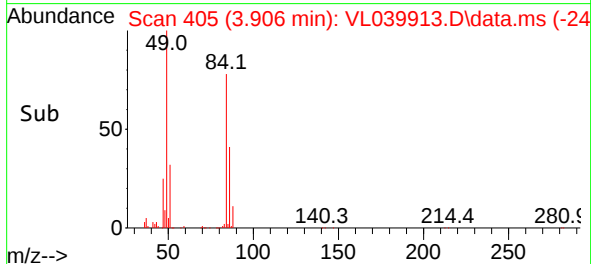
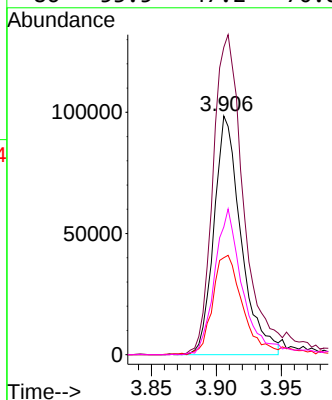
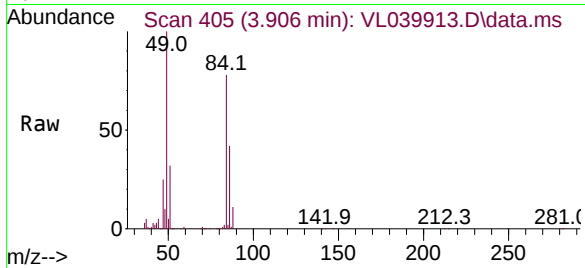




#20
Methylene Chloride
Concen: 2.242 ppbv
RT: 3.906 min Scan# 407
Delta R.T. 0.006 min
Lab File: VL039913.D
Acq: 21 Nov 2022 17:04

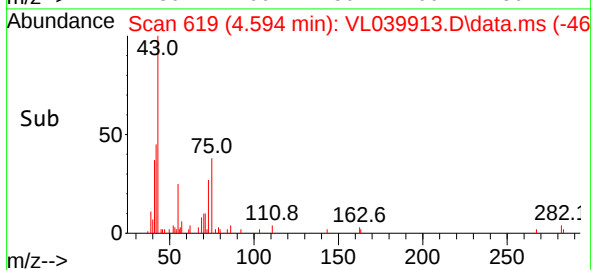
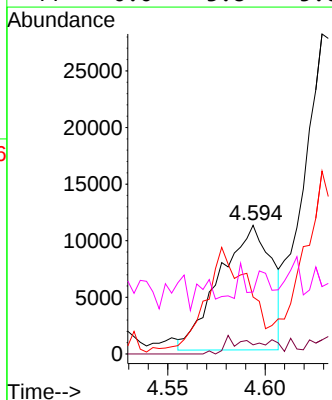
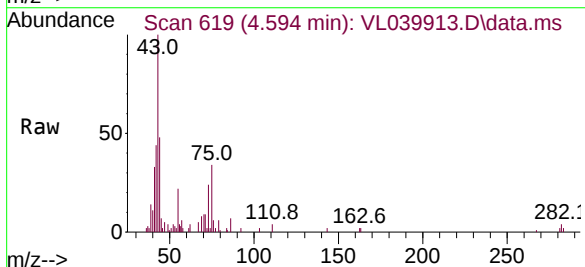
Instrument :
MSVOA_L
ClientSampleId :
SV1

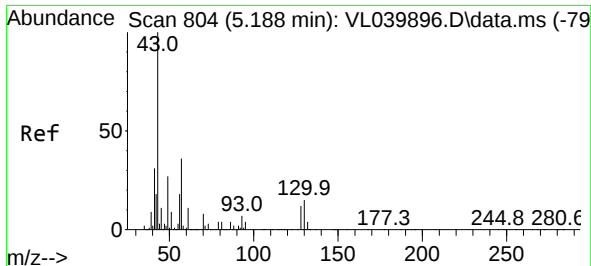
Tgt Ion: 84 Resp: 143013
Ion Ratio Lower Upper
84 100
49 128.1 122.2 183.4
51 40.3 36.3 54.5
86 53.5 47.2 70.8



#23
Vinyl Acetate
Concen: 0.378 ppbv
RT: 4.594 min Scan# 619
Delta R.T. 0.003 min
Lab File: VL039913.D
Acq: 21 Nov 2022 17:04

Tgt Ion: 43 Resp: 20445
Ion Ratio Lower Upper
43 100
86 8.0 5.0 7.4#
42 42.6 7.6 11.4#
44 0.0 3.8 5.6#



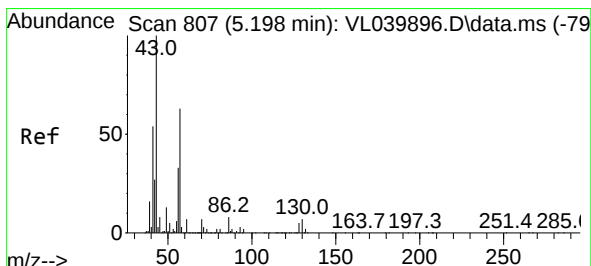
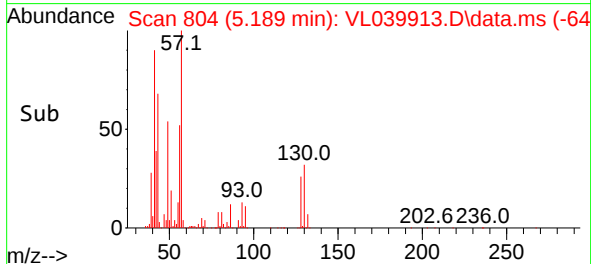
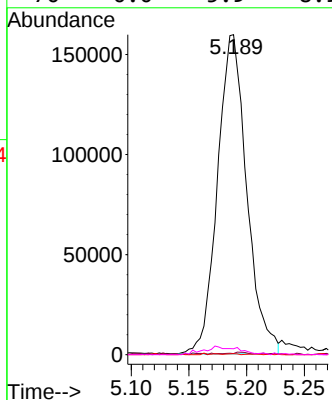
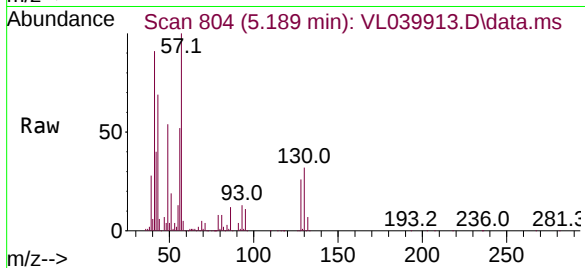


#25
Ethyl Acetate
Concen: 1.162 ppbv
RT: 5.189 min Scan# 804
Delta R.T. 0.019 min
Lab File: VL039913.D
Acq: 21 Nov 2022 17:04

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 280847

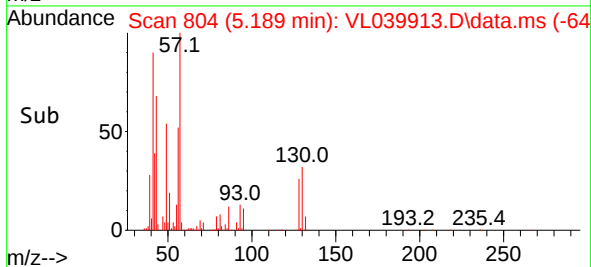
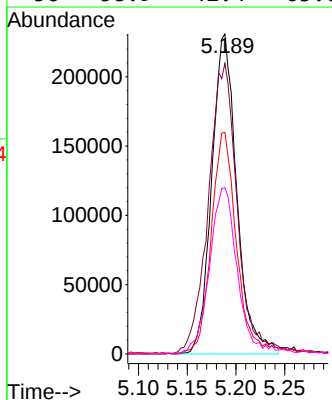
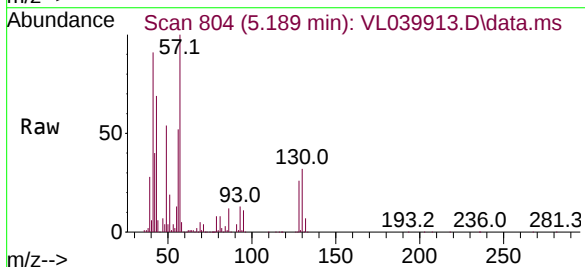
Ion	Ratio	Lower	Upper
43	100		
45	0.7	8.4	12.6#
61	0.0	8.5	12.7#
70	0.0	5.9	8.9#

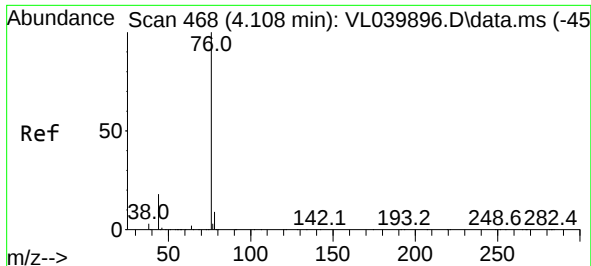


#26
Hexane
Concen: 3.906 ppbv
RT: 5.189 min Scan# 804
Delta R.T. 0.007 min
Lab File: VL039913.D
Acq: 21 Nov 2022 17:04

Tgt Ion: 57 Resp: 412498

Ion	Ratio	Lower	Upper
57	100		
41	107.0	72.3	108.5
43	71.2	188.7	283.1#
56	58.9	42.4	63.6

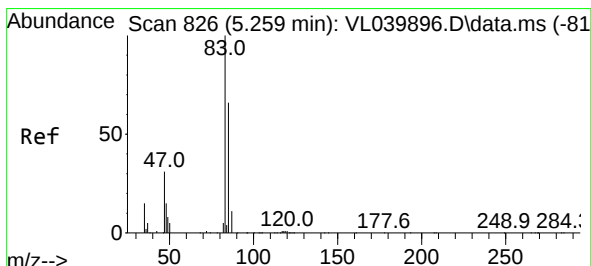
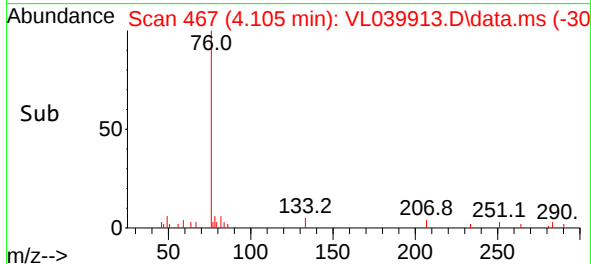
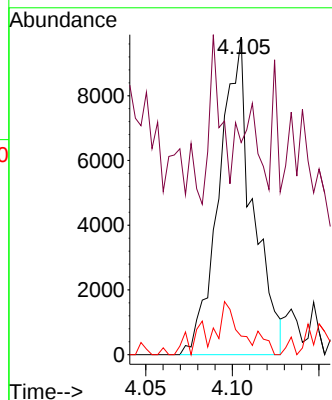
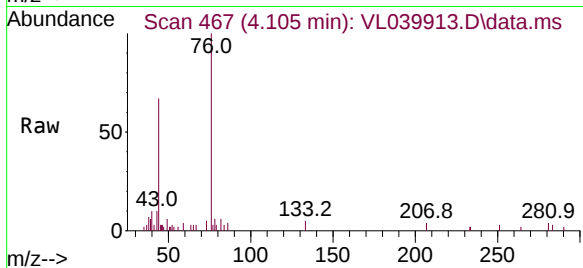




#27
Carbon Disulfide
Concen: 0.099 ppbv
RT: 4.105 min Scan# 41
Delta R.T. 0.016 min
Lab File: VL039913.D
Acq: 21 Nov 2022 17:04

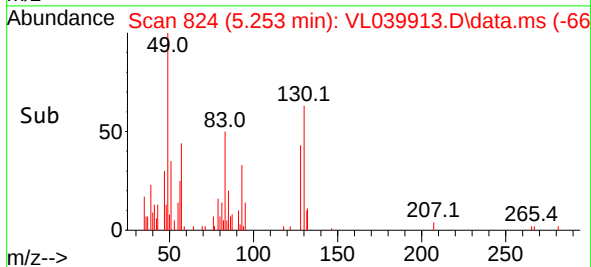
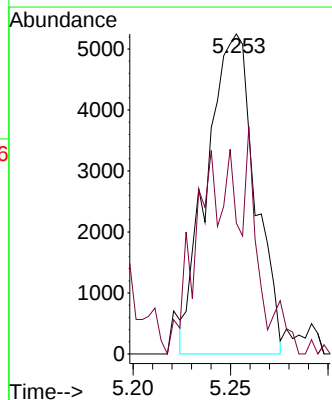
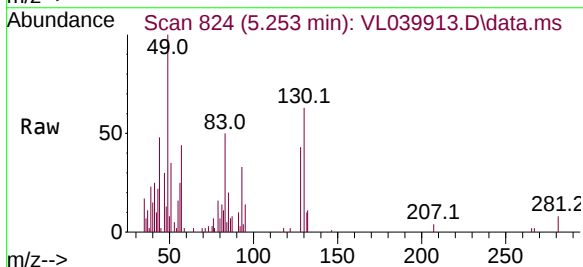
Instrument :
MSVOA_L
ClientSampleId :
SV1

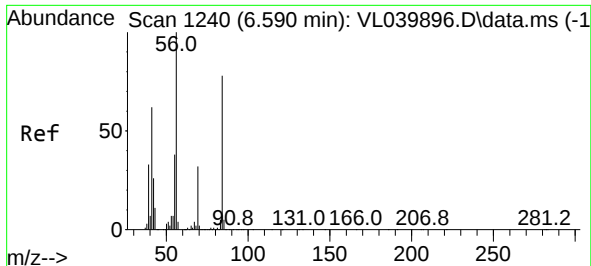
Tgt Ion: 76 Resp: 13190
Ion Ratio Lower Upper
76 100
44 100.4 14.7 22.1#
78 17.5 7.8 11.8#



#29
Chloroform
Concen: 0.064 ppbv
RT: 5.253 min Scan# 824
Delta R.T. 0.013 min
Lab File: VL039913.D
Acq: 21 Nov 2022 17:04

Tgt Ion: 83 Resp: 9015
Ion Ratio Lower Upper
83 100
85 34.2 52.4 78.6#

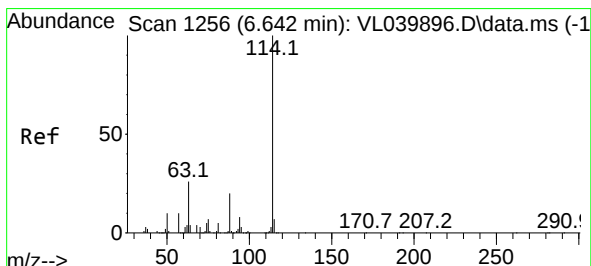
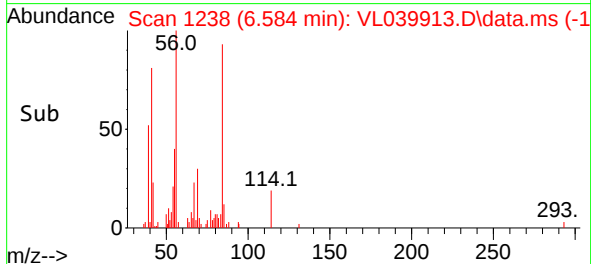
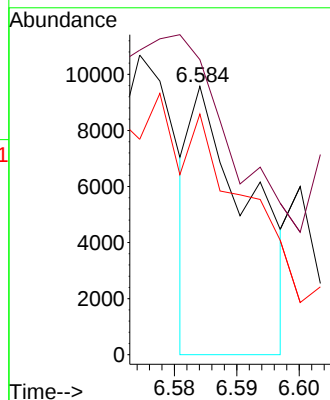
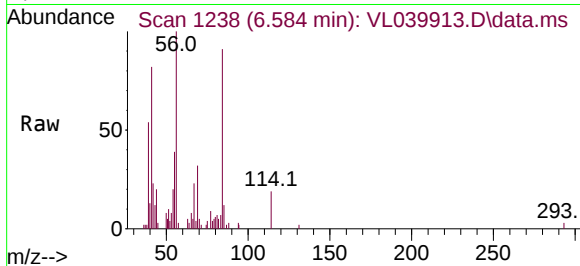




#30
Cyclohexane
Concen: 0.060 ppbv
RT: 6.584 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL039913.D
Acq: 21 Nov 2022 17:04

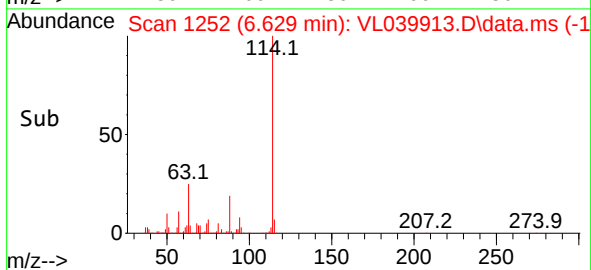
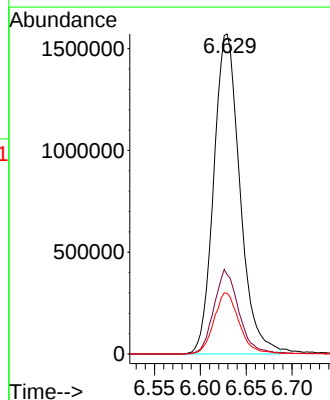
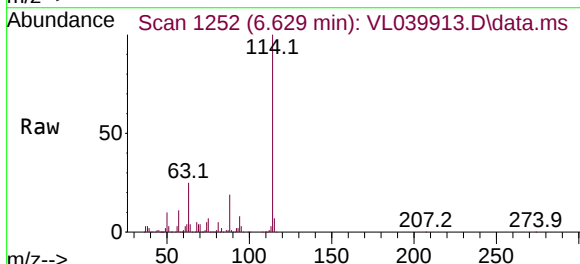
Instrument :
MSVOA_L
ClientSampleId :
SV1

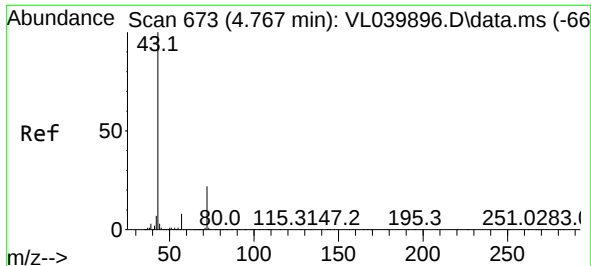
Tgt Ion: 84 Resp: 6178
Ion Ratio Lower Upper
84 100
56 402.9 112.5 168.7#
41 350.3 67.8 101.8#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.629 min Scan# 1252
Delta R.T. 0.010 min
Lab File: VL039913.D
Acq: 21 Nov 2022 17:04

Tgt Ion: 114 Resp: 3119159
Ion Ratio Lower Upper
114 100
63 25.3 21.4 32.0
88 18.6 15.3 22.9

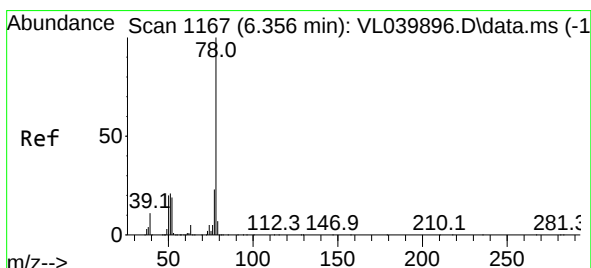
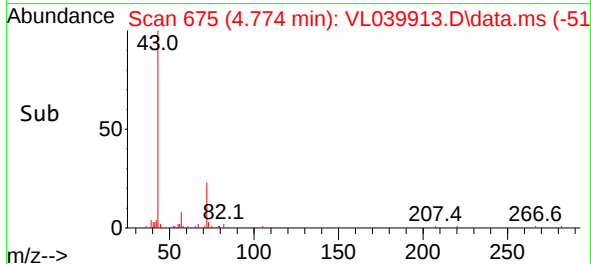
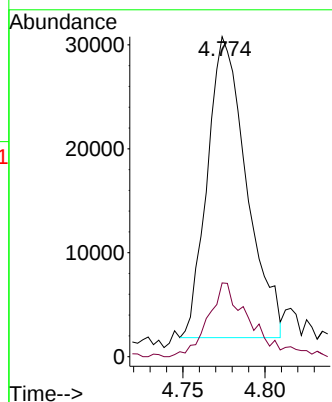
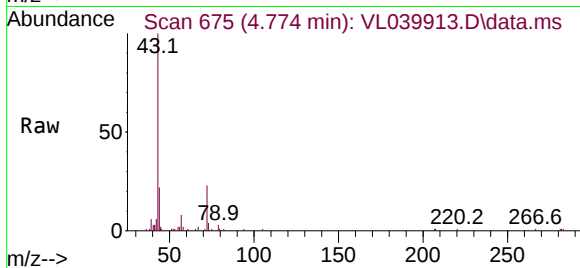




#34
2-Butanone
Concen: 0.322 ppbv
RT: 4.774 min Scan# 61
Delta R.T. 0.023 min
Lab File: VL039913.D
Acq: 21 Nov 2022 17:04

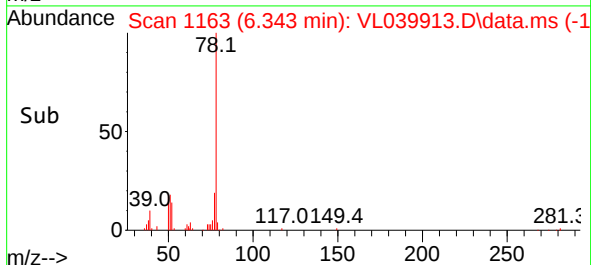
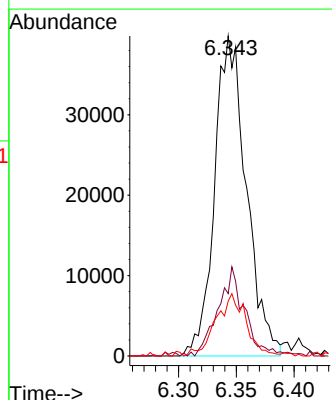
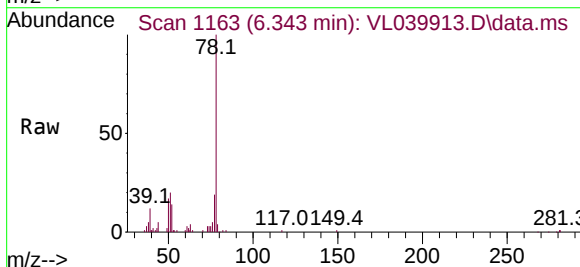
Instrument :
MSVOA_L
ClientSampleId :
SV1

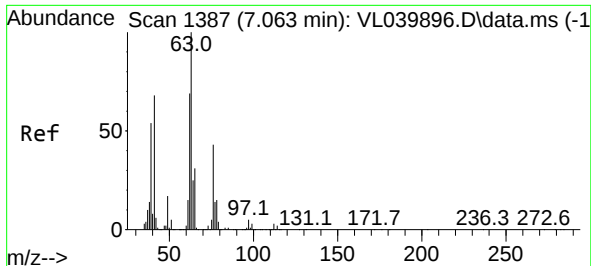
Tgt Ion: 43 Resp: 48082
Ion Ratio Lower Upper
43 100
72 27.8 17.4 26.2#



#36
Benzene
Concen: 0.287 ppbv
RT: 6.343 min Scan# 1163
Delta R.T. 0.007 min
Lab File: VL039913.D
Acq: 21 Nov 2022 17:04

Tgt Ion: 78 Resp: 76002
Ion Ratio Lower Upper
78 100
77 19.5 18.2 27.2
50 16.6 15.8 23.8





#39

1,2-Dichloropropane

Concen: 7.552 ppbv

RT: 6.626 min Scan# 11

Delta R.T. -0.415 min

Lab File: VL039913.D

Acq: 21 Nov 2022 17:04

Instrument :

MSVOA_L

ClientSampleId :

SV1

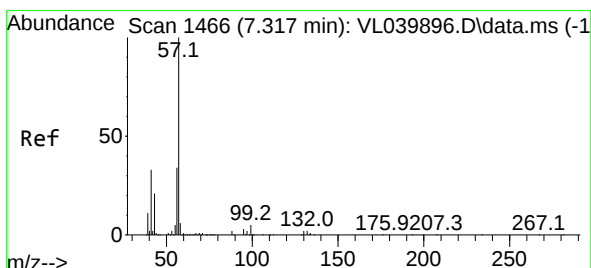
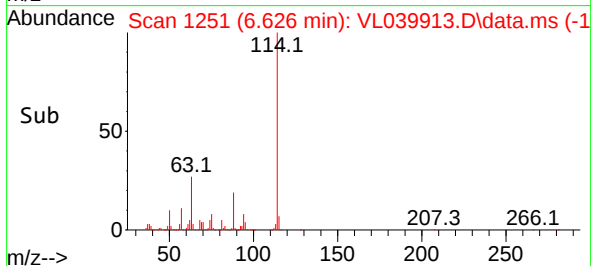
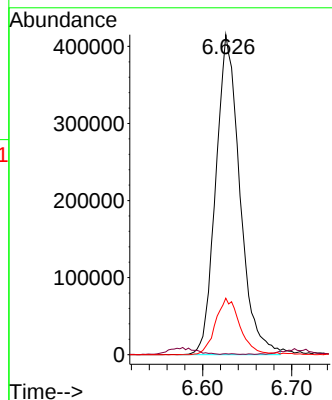
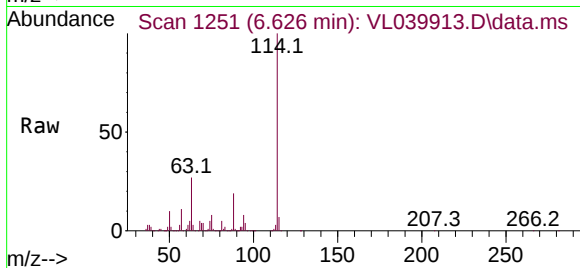
Tgt Ion: 63 Resp: 780085

Ion Ratio Lower Upper

63 100

41 0.0 54.7 82.1#

62 17.6 55.0 82.6#



#44

2,2,4-Trimethylpentane

Concen: 0.032 ppbv

RT: 7.304 min Scan# 1462

Delta R.T. 0.010 min

Lab File: VL039913.D

Acq: 21 Nov 2022 17:04

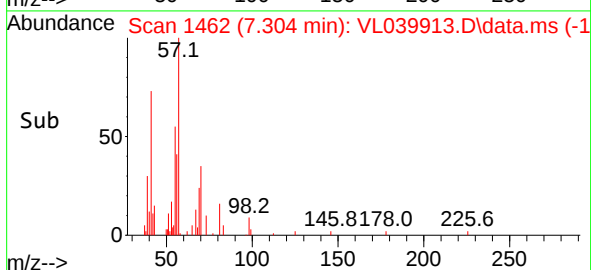
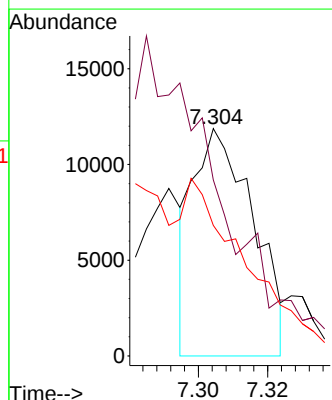
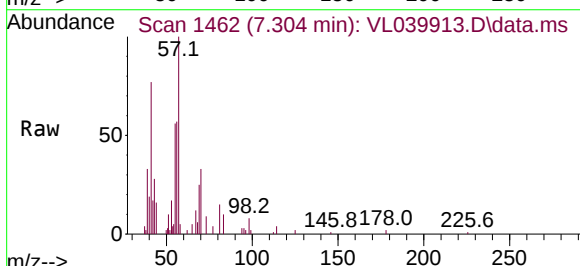
Tgt Ion: 57 Resp: 14339

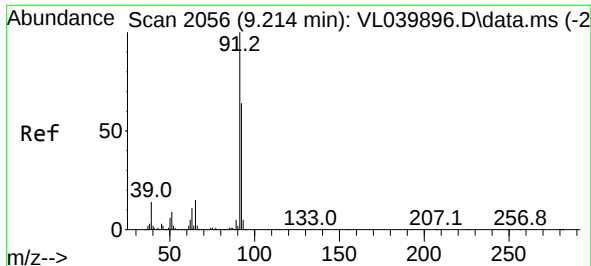
Ion Ratio Lower Upper

57 100

41 0.0 26.2 39.2#

56 162.2 25.5 38.3#

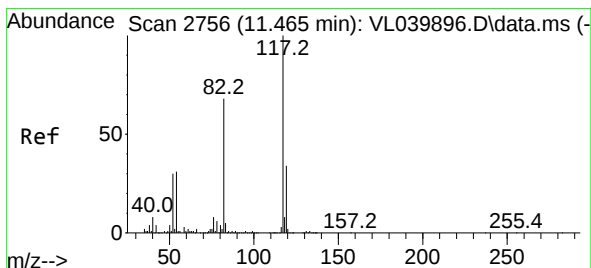
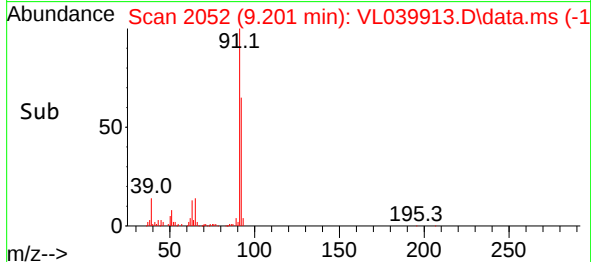
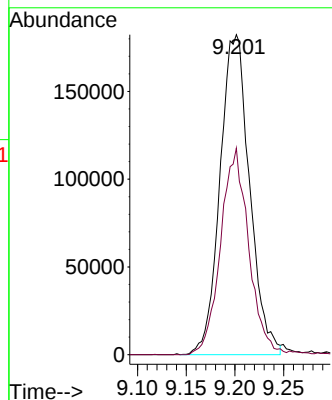
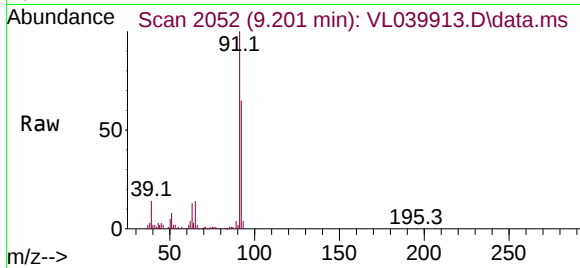




#53
Toluene
Concen: 1.275 ppbv
RT: 9.201 min Scan# 2056
Delta R.T. 0.010 min
Lab File: VL039913.D
Acq: 21 Nov 2022 17:04

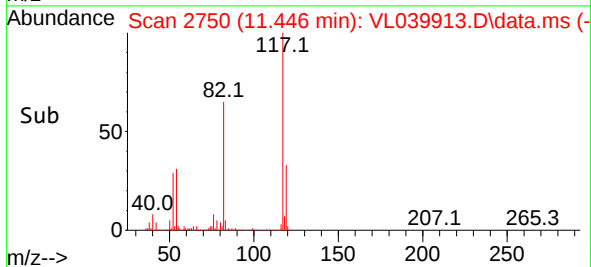
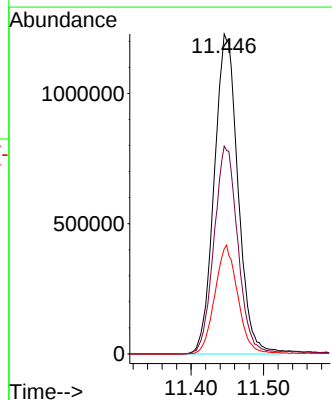
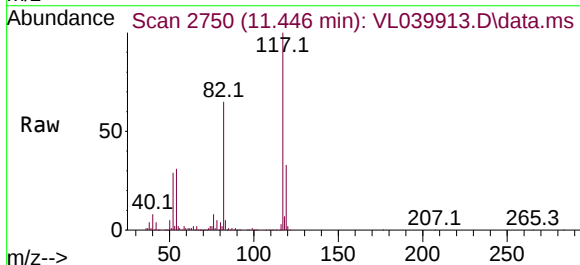
Instrument :
MSVOA_L
ClientSampleId :
SV1

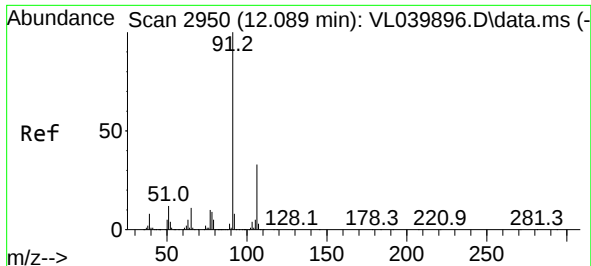
Tgt Ion: 91 Resp: 384989
Ion Ratio Lower Upper
91 100
92 62.2 49.8 74.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.446 min Scan# 2750
Delta R.T. 0.007 min
Lab File: VL039913.D
Acq: 21 Nov 2022 17:04

Tgt Ion: 117 Resp: 2791438
Ion Ratio Lower Upper
117 100
82 66.7 52.3 78.5
119 33.1 25.7 38.5

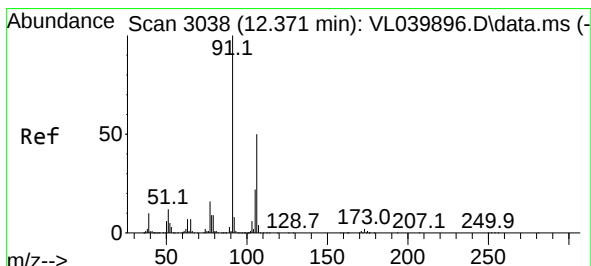
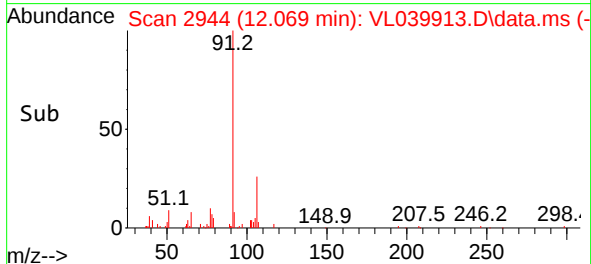
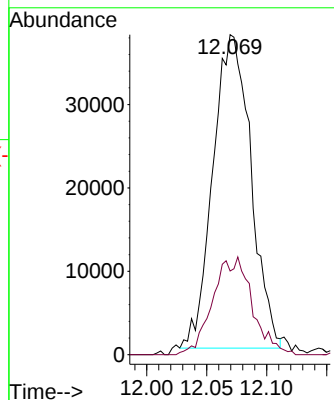
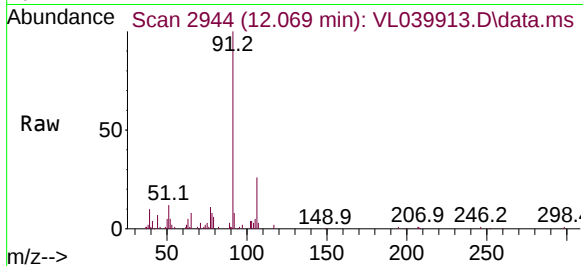




#58
Ethyl Benzene
Concen: 0.219 ppbv
RT: 12.069 min Scan# 2950
Delta R.T. 0.006 min
Lab File: VL039913.D
Acq: 21 Nov 2022 17:04

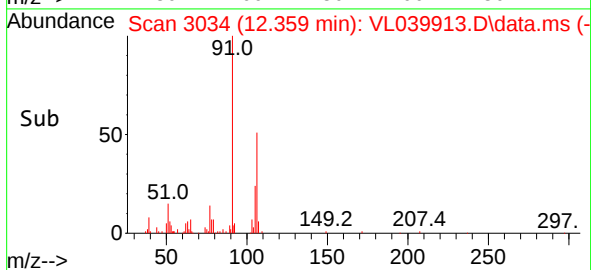
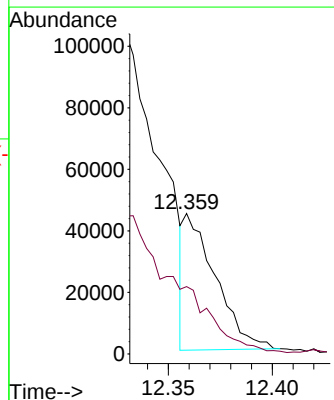
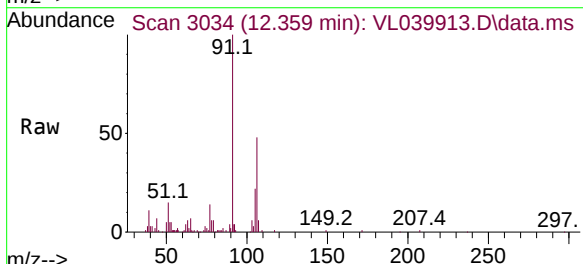
Instrument :
MSVOA_L
ClientSampleId :
SV1

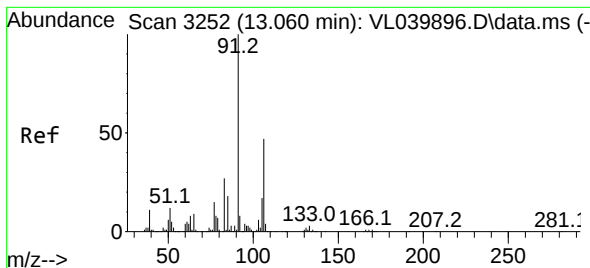
Tgt Ion: 91 Resp: 82821
Ion Ratio Lower Upper
91 100
106 26.0 26.1 39.1#



#59
m/p-Xylene
Concen: 0.147 ppbv
RT: 12.359 min Scan# 3034
Delta R.T. 0.013 min
Lab File: VL039913.D
Acq: 21 Nov 2022 17:04

Tgt Ion: 91 Resp: 46697
Ion Ratio Lower Upper
91 100
106 0.0 37.0 55.6#





#60

o-Xylene

Concen: 0.550 ppbv

RT: 13.040 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL039913.D

Acq: 21 Nov 2022 17:04

Instrument :

MSVOA_L

ClientSampleId :

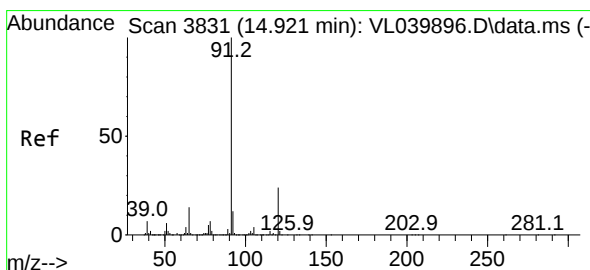
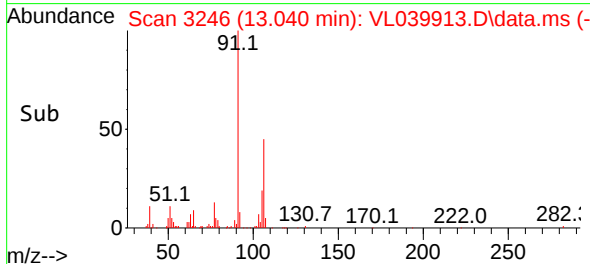
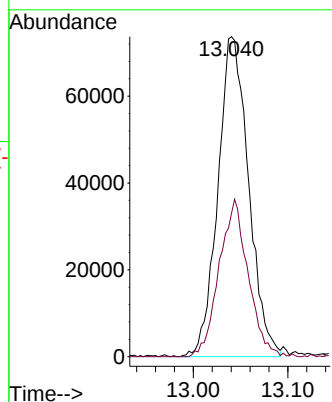
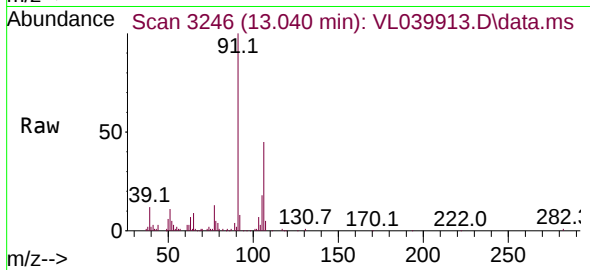
SV1

Tgt Ion: 91 Resp: 166224

Ion Ratio Lower Upper

91 100

106 46.5 23.2 69.6



#64

n-propylbenzene

Concen: 0.122 ppbv

RT: 14.896 min Scan# 3823

Delta R.T. 0.000 min

Lab File: VL039913.D

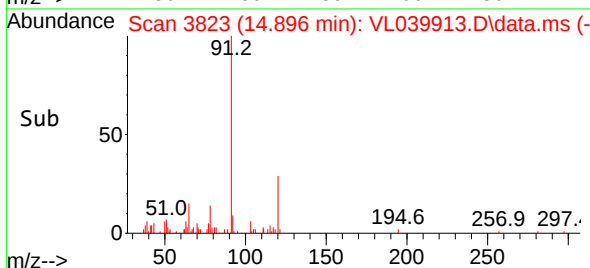
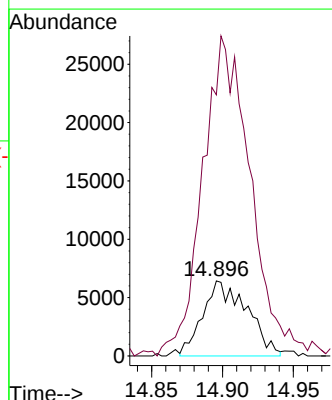
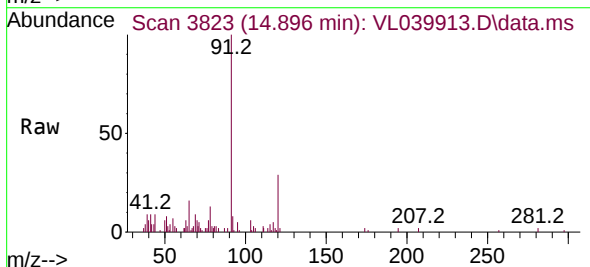
Acq: 21 Nov 2022 17:04

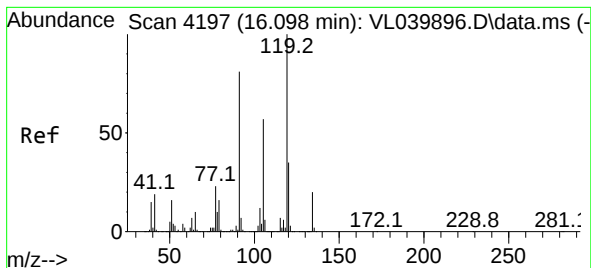
Tgt Ion: 120 Resp: 13924

Ion Ratio Lower Upper

120 100

91 469.8 353.7 530.5

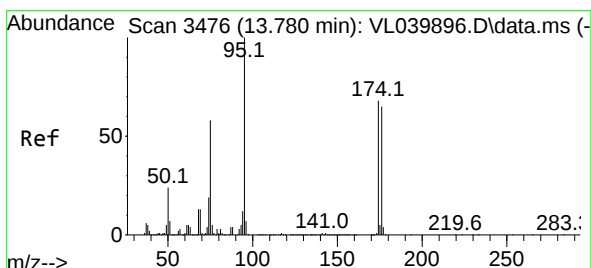
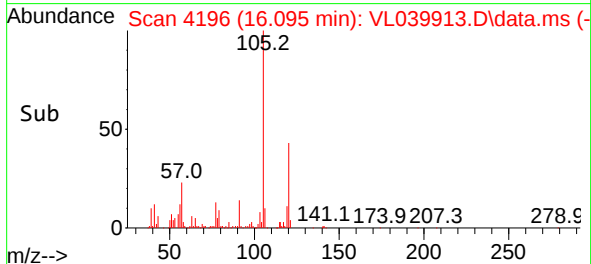
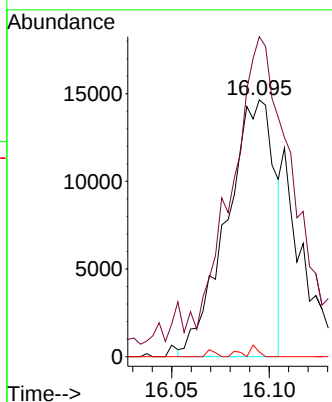
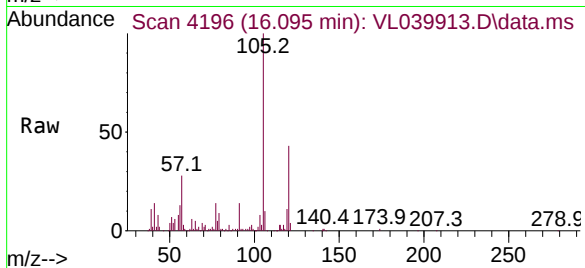




#65
tert-Butylbenzene
Concen: 0.066 ppbv
RT: 16.095 min Scan# 4196
Delta R.T. 0.023 min
Lab File: VL039913.D
Acq: 21 Nov 2022 17:04

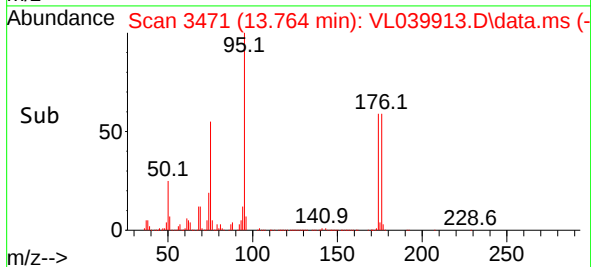
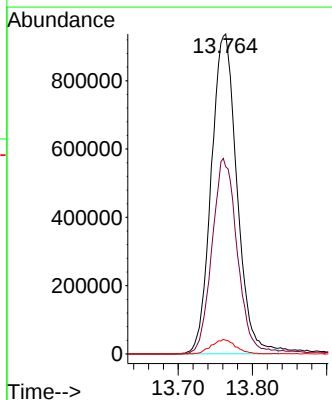
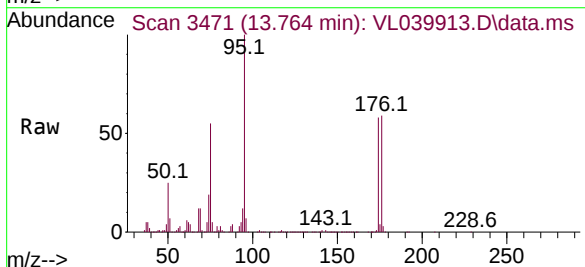
Instrument :
MSVOA_L
ClientSampleId :
SV1

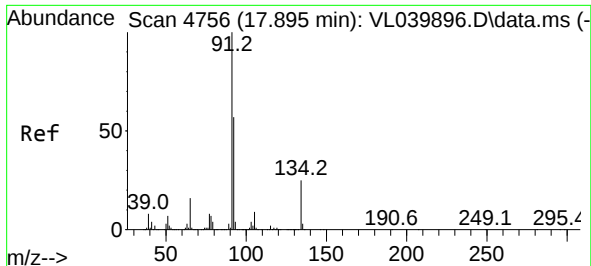
Tgt Ion:119 Resp: 25016
Ion Ratio Lower Upper
119 100
91 186.9 65.8 98.8#
134 1.6 16.1 24.1#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.545 ppbv
RT: 13.764 min Scan# 3471
Delta R.T. 0.010 min
Lab File: VL039913.D
Acq: 21 Nov 2022 17:04

Tgt Ion: 95 Resp: 2248352
Ion Ratio Lower Upper
95 100
174 61.7 53.7 80.5
175 4.3 4.0 6.0

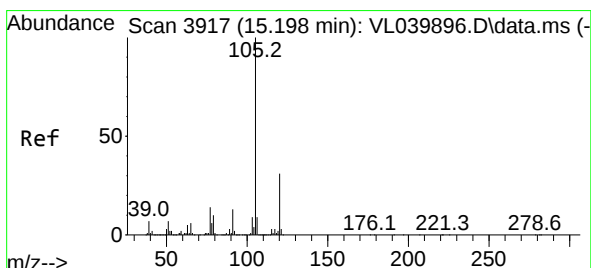
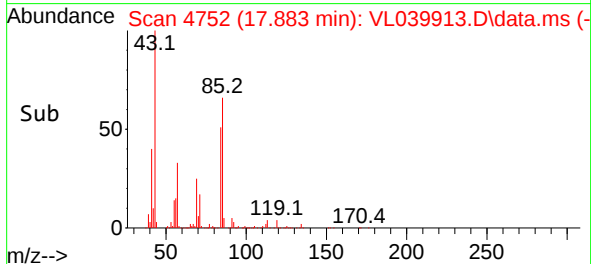
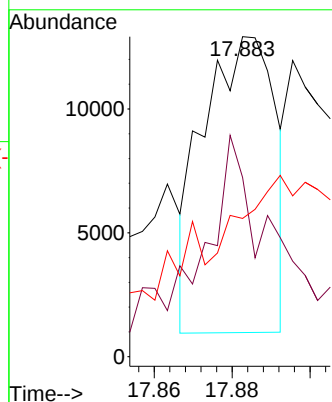
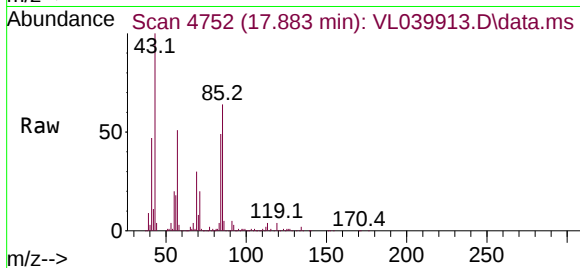




#70
n-Butylbenzene
Concen: 0.036 ppbv
RT: 17.883 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL039913.D
Acq: 21 Nov 2022 17:04

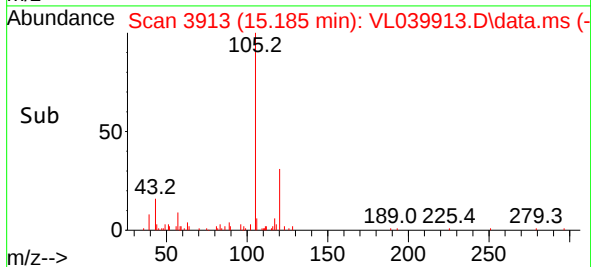
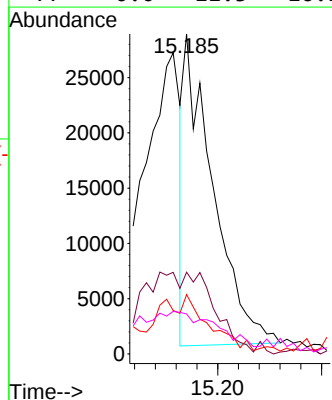
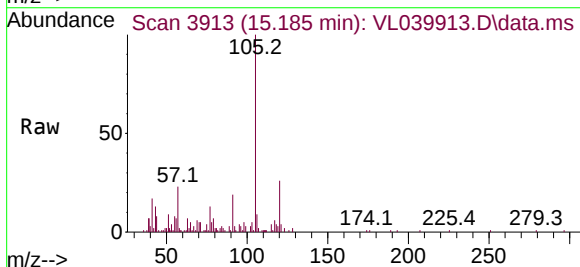
Instrument :
MSVOA_L
ClientSampleId :
SV1

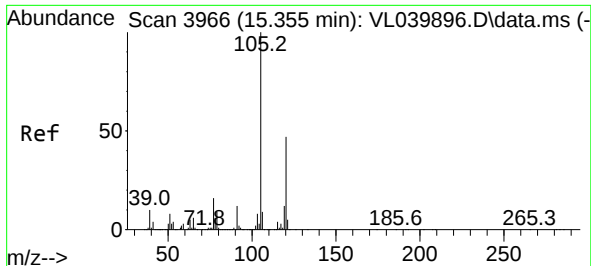
Tgt Ion: 91 Resp: 15330
Ion Ratio Lower Upper
91 100
92 109.9 44.2 66.2#
134 0.0 18.8 28.2#



#72
4-Ethyltoluene
Concen: 0.080 ppbv
RT: 15.185 min Scan# 3913
Delta R.T. 0.010 min
Lab File: VL039913.D
Acq: 21 Nov 2022 17:04

Tgt Ion: 105 Resp: 27128
Ion Ratio Lower Upper
105 100
120 0.0 24.5 36.7#
91 34.5 10.4 15.6#
77 0.0 11.3 16.9#

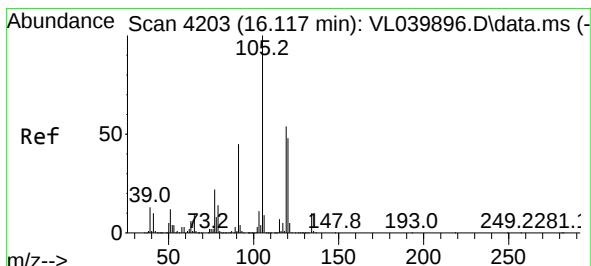
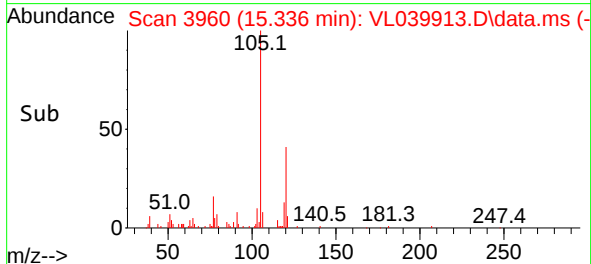
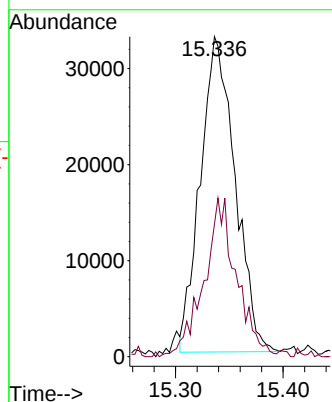
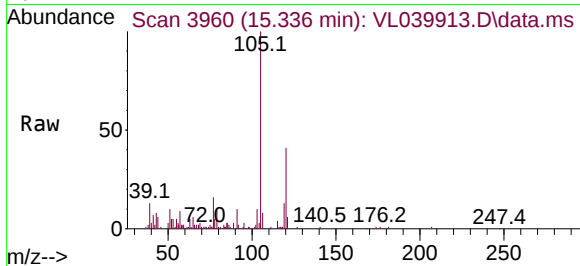




#73
 1,3,5-Trimethylbenzene
 Concen: 0.237 ppbv
 RT: 15.336 min Scan# 3966
 Delta R.T. 0.003 min
 Lab File: VL039913.D
 Acq: 21 Nov 2022 17:04

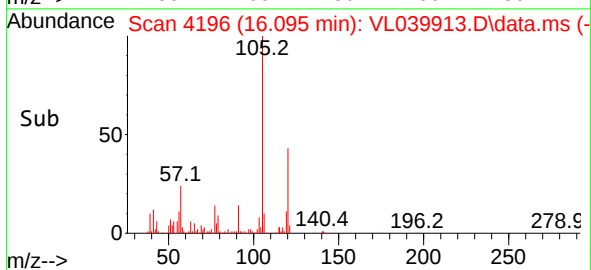
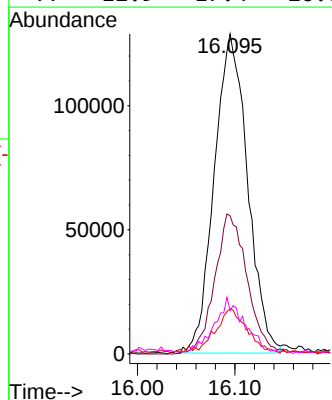
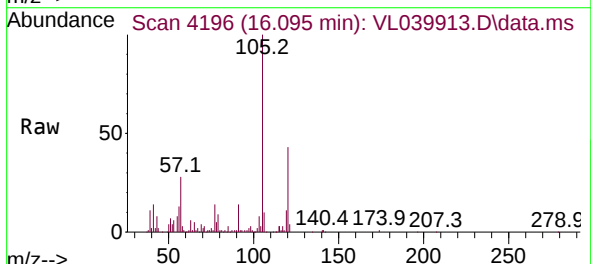
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

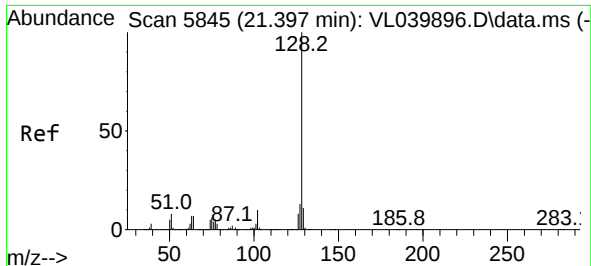
Tgt Ion:105 Resp: 73672
 Ion Ratio Lower Upper
 105 100
 120 40.1 37.9 56.9



#74
 1,2,4-Trimethylbenzene
 Concen: 0.925 ppbv
 RT: 16.095 min Scan# 4196
 Delta R.T. 0.003 min
 Lab File: VL039913.D
 Acq: 21 Nov 2022 17:04

Tgt Ion:105 Resp: 304465
 Ion Ratio Lower Upper
 105 100
 120 43.1 38.7 58.1
 91 13.8 36.4 54.6#
 77 12.9 17.4 26.0#

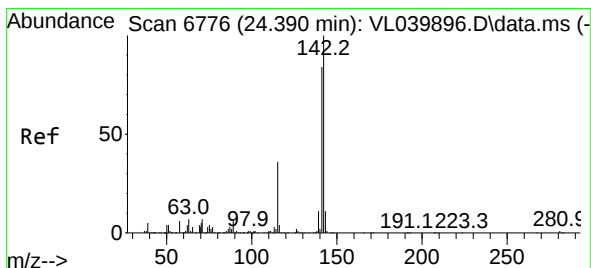
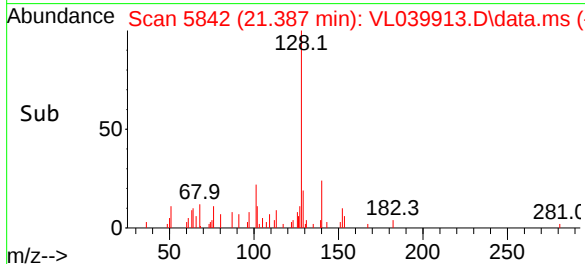
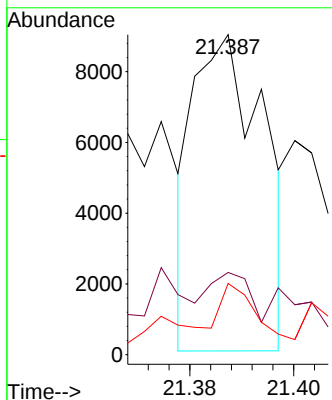
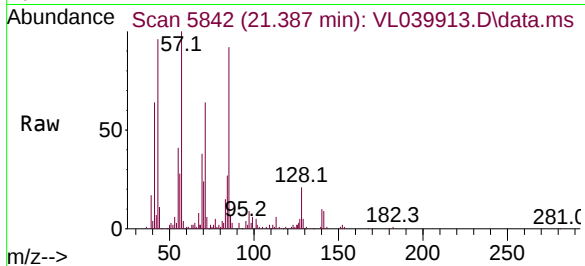




#79
Naphthalene
Concen: 0.043 ppbv
RT: 21.387 min Scan# 5845
Delta R.T. 0.016 min
Lab File: VL039913.D
Acq: 21 Nov 2022 17:04

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:128 Resp: 8383
Ion Ratio Lower Upper
128 100
127 15.9 10.0 15.0#
129 36.4 8.8 13.2#



#80
Naphthalene,2-methyl-
Concen: 0.052 ppbv
RT: 24.378 min Scan# 6772
Delta R.T. 0.010 min
Lab File: VL039913.D
Acq: 21 Nov 2022 17:04

Tgt Ion:142 Resp: 2895
Ion Ratio Lower Upper
142 100
141 60.0 69.1 103.7#
115 32.3 29.6 44.4

