

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071918\
 Data File : VL032296.D
 Acq On : 19 Jul 2018 20:15
 Operator : SY/AP
 Sample : J4063-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

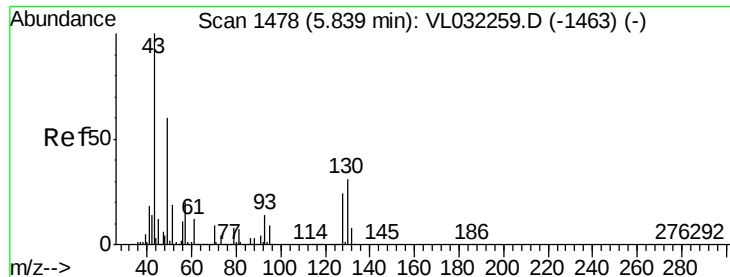
Quant Time: Jul 20 02:10:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 18 14:38:53 2018
 QLast Update : Wed Jul 18 14:38:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.83	49	1533205	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	3047745	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	3658380	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.67	95	2899892	9.78	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.13	85	16627	0.064 ppbv	89
3) Chlorodifluoromethane	3.06	51	112703	0.655 ppbv	99
4) Chloromethane	3.22	50	5029	0.050 ppbv	99
9) Propene	3.09	41	14457	0.192 ppbv #	71
11) Trichlorofluoromethane	4.07	101	4114	0.020 ppbv	96
13) Ethanol	3.71	45	114514	5.330 ppbv	97
15) Acetone	3.97	43	497653	3.101 ppbv	94
19) Isopropyl Alcohol	4.11	45	53407	0.492 ppbv #	1
20) Methylene Chloride	4.47	84	37053	0.600 ppbv	92
23) Vinyl Acetate	5.22	43	15378	0.053 ppbv #	76
25) Ethyl Acetate	5.85	43	43345	0.124 ppbv #	40
26) Hexane	5.86	57	28337	0.177 ppbv #	69
34) 2-Butanone	5.42	43	38061	0.182 ppbv	98
37) 1,2-Dichloroethane	6.49	62	29314	0.165 ppbv #	91
39) 1,2-Dichloropropane	7.37	63	854102	7.191 ppbv #	25
53) Toluene	10.03	91	82507	0.227 ppbv	99
58) Ethyl Benzene	12.95	91	11298	0.022 ppbv	99
59) m/p-Xylene	13.23	91	17522	0.040 ppbv #	31
60) o-Xylene	13.94	91	21015	0.048 ppbv	92
61) Styrene	13.77	104	6617	0.020 ppbv #	36
76) 1,4-Dichlorobenzene	17.39	146	9047	0.032 ppbv #	23

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.83 min Scan# 1476

Delta R.T. -0.01 min

Lab File: VL032296.D

Acq: 19 Jul 2018 20:15

Instrument :

MSVOA_L

ClientSampleId :

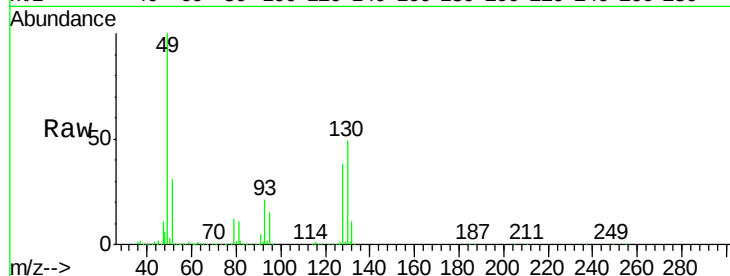
Tot Ion: 49 Resp: 1533205

Ion Ratio Lower Upper

49 100

128 40.0 20.1 60.2

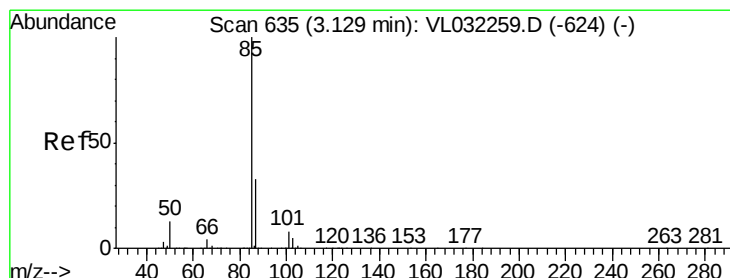
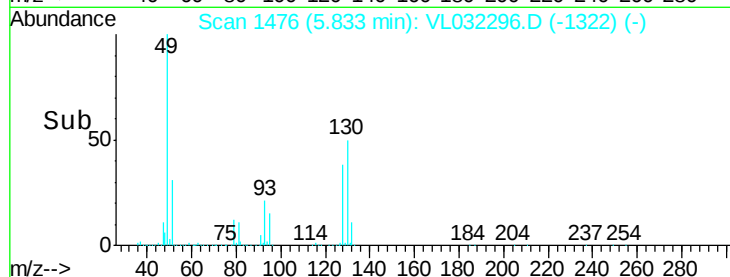
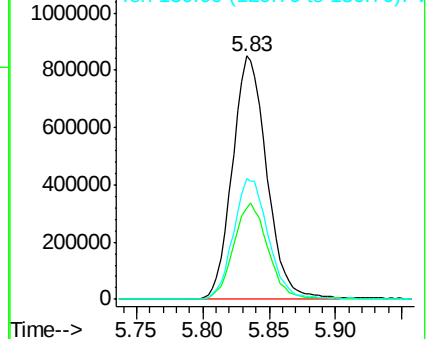
130 50.7 25.9 77.6



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.064 ppbv

RT: 3.13 min Scan# 635

Delta R.T. 0.00 min

Lab File: VL032296.D

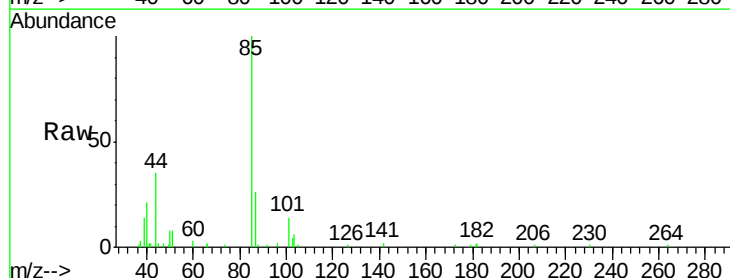
Acq: 19 Jul 2018 20:15

Tgt Ion: 85 Resp: 16627

Ion Ratio Lower Upper

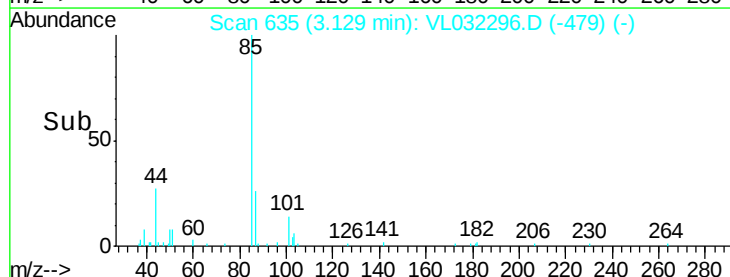
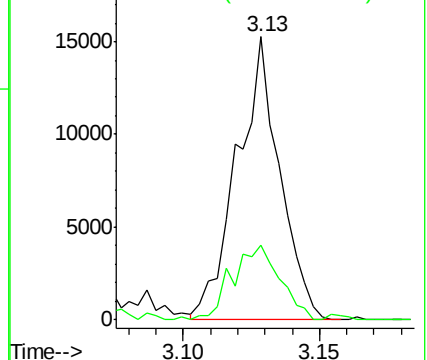
85 100

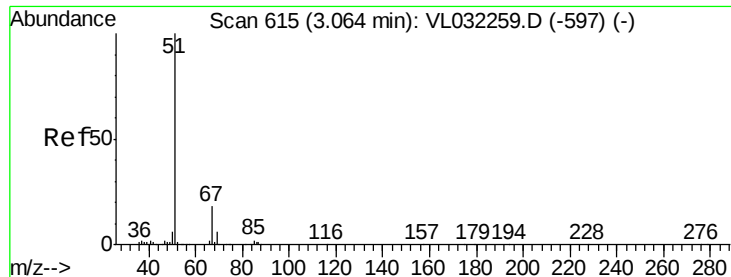
87 26.2 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.655 ppbv

RT: 3.06 min Scan# 615

Delta R.T. 0.00 min

Lab File: VL032296.D

Acq: 19 Jul 2018 20:15

Instrument :

MSVOA_L

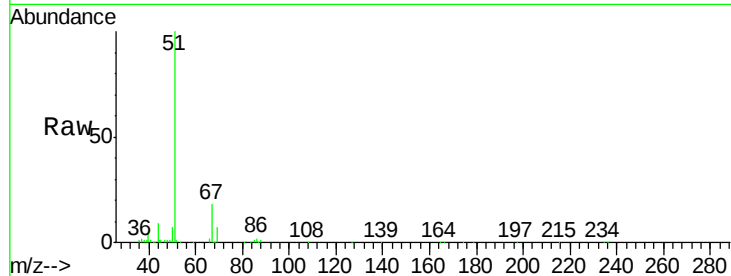
ClientSampleId :

Tot Ion: 51 Resp: 112703

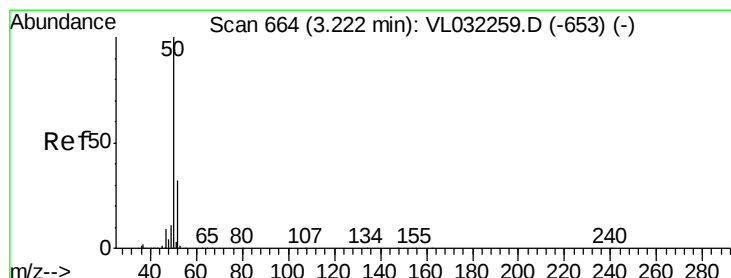
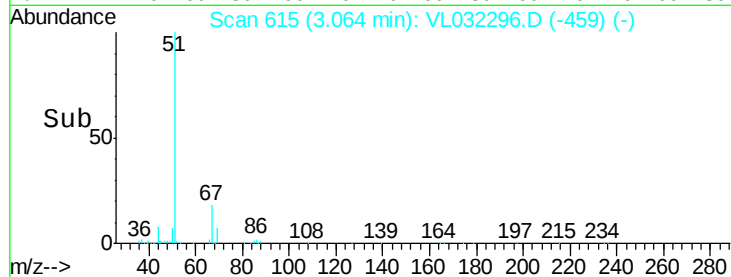
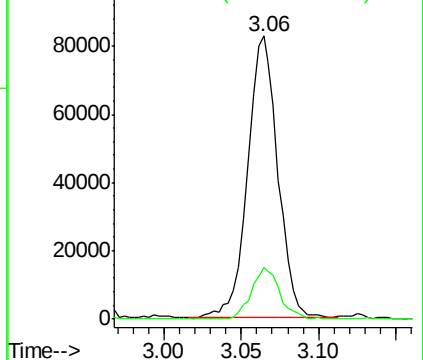
Ion Ratio Lower Upper

51 100

67 17.2 14.2 21.4



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.050 ppbv

RT: 3.22 min Scan# 663

Delta R.T. -0.00 min

Lab File: VL032296.D

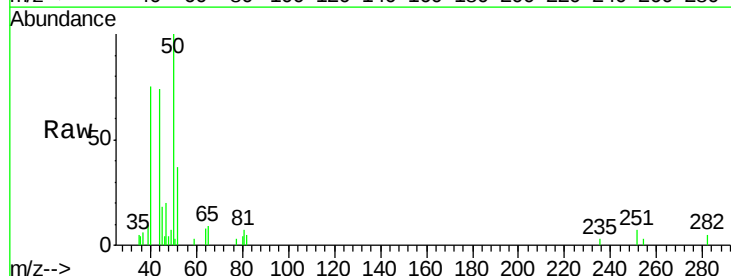
Acq: 19 Jul 2018 20:15

Tgt Ion: 50 Resp: 5029

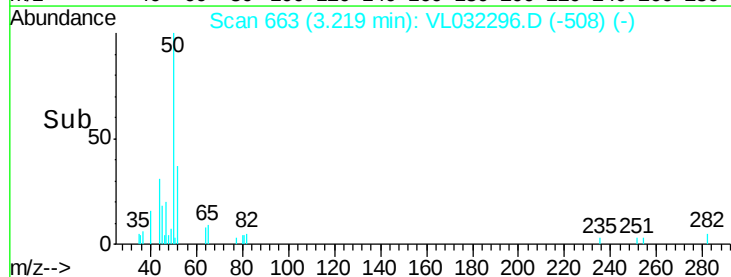
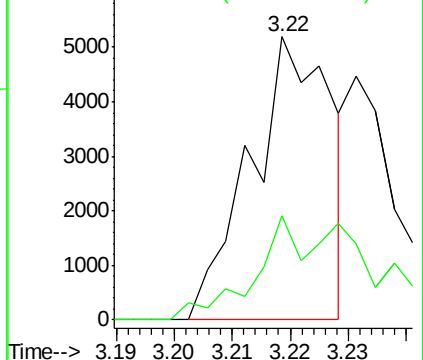
Ion Ratio Lower Upper

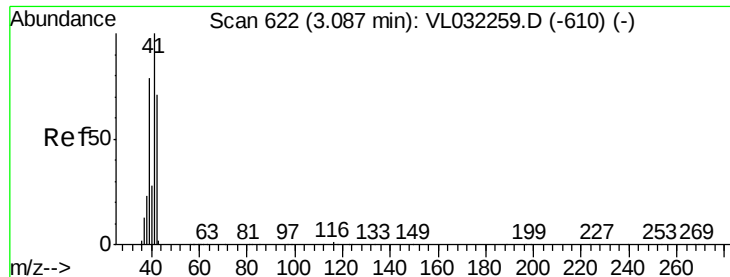
50 100

52 30.8 25.3 37.9



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.192 ppbv

RT: 3.09 min Scan# 623

Delta R.T. 0.00 min

Lab File: VL032296.D

Acq: 19 Jul 2018 20:15

Instrument :

MSVOA_L

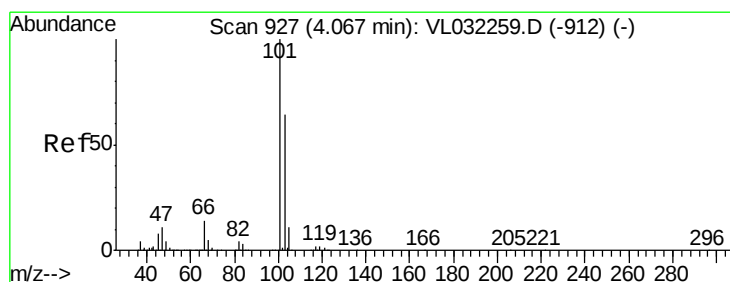
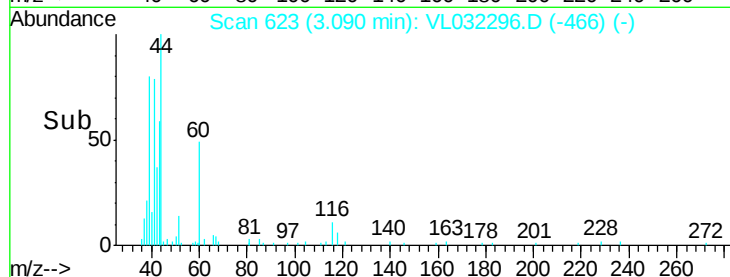
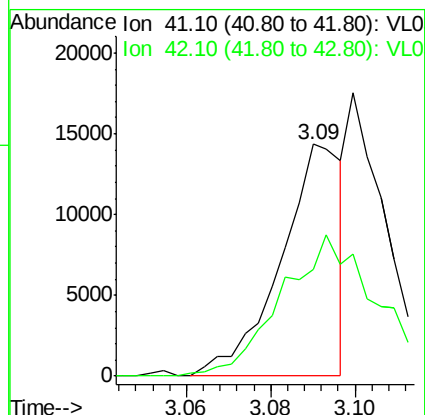
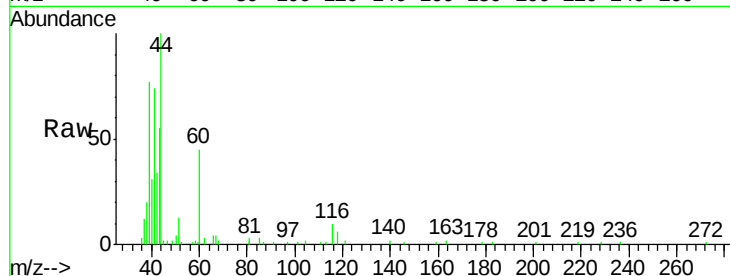
ClientSampleId :

Tot Ion: 41 Resp: 14457

Ion Ratio Lower Upper

41 100

42 94.5 56.2 84.4#



#11

Trichlorofluoromethane

Concen: 0.020 ppbv

RT: 4.07 min Scan# 927

Delta R.T. 0.00 min

Lab File: VL032296.D

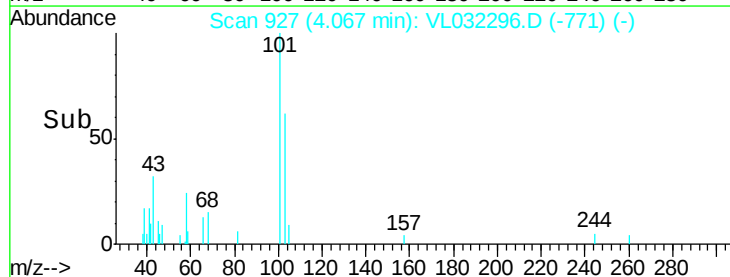
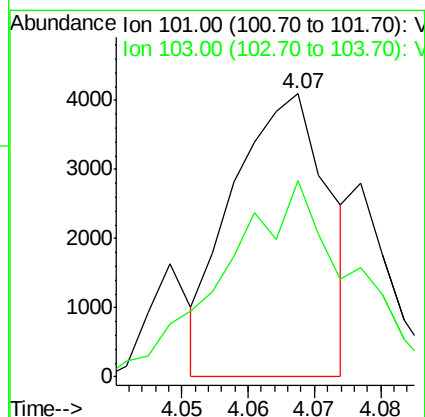
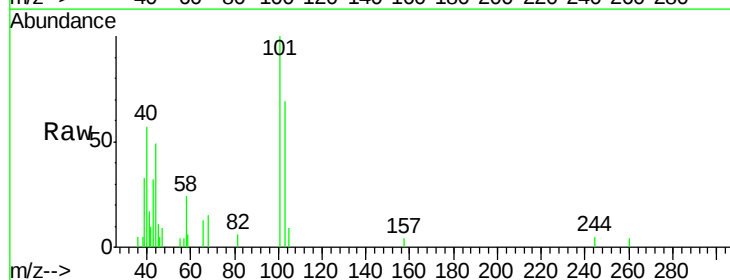
Acq: 19 Jul 2018 20:15

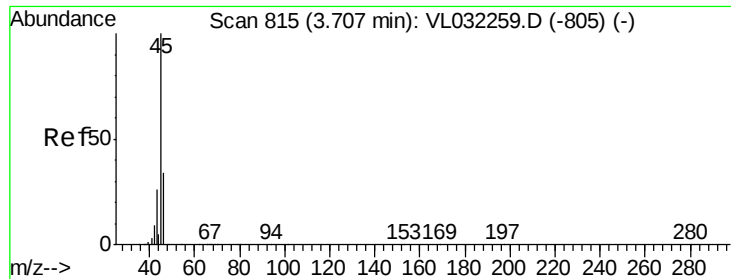
Tgt Ion: 101 Resp: 4114

Ion Ratio Lower Upper

101 100

103 61.2 51.5 77.3

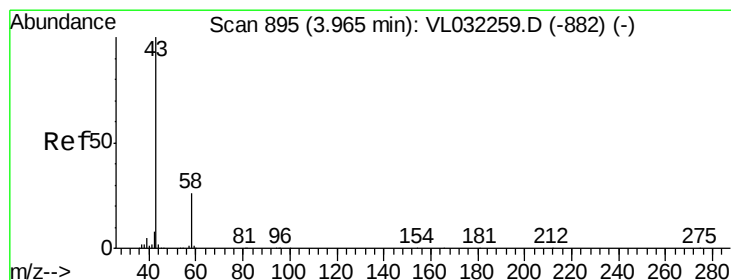
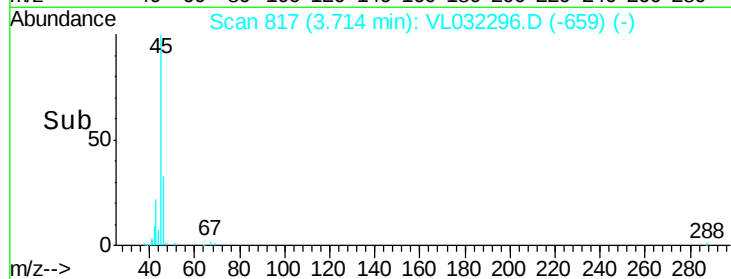
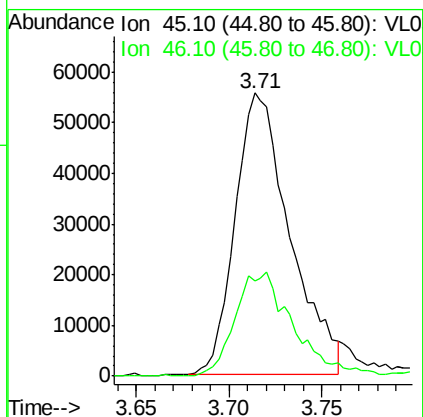
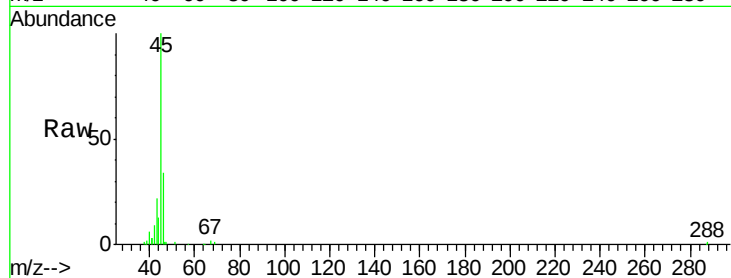




#13
Ethanol
Concen: 5.330 ppbv
RT: 3.71 min Scan# 817
Delta R.T. 0.01 min
Lab File: VL032296.D
Acq: 19 Jul 2018 20:15

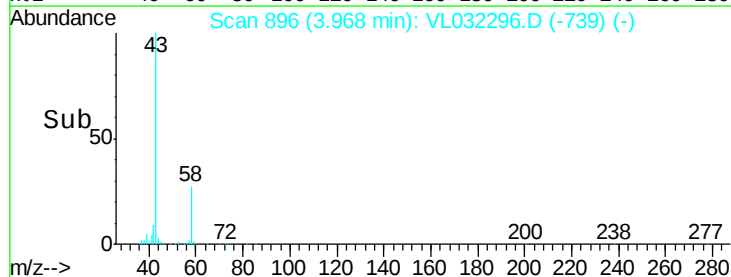
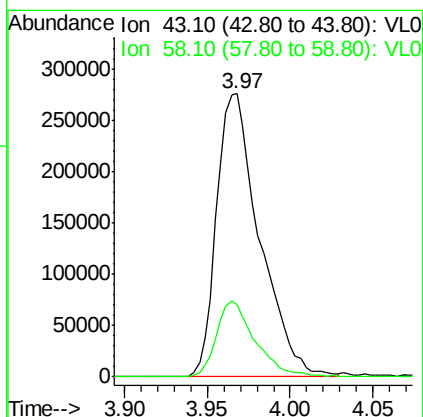
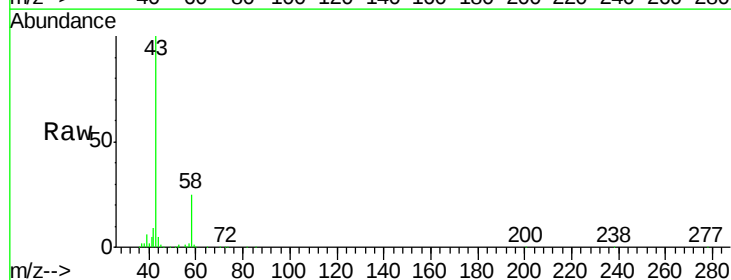
Instrument :
MSVOA_L
ClientSampleId :

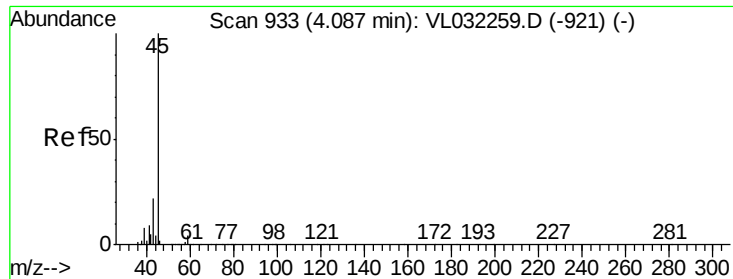
Tot Ion: 45 Resp: 114514
Ion Ratio Lower Upper
45 100
46 39.7 15.2 60.8



#15
Acetone
Concen: 3.101 ppbv
RT: 3.97 min Scan# 896
Delta R.T. 0.00 min
Lab File: VL032296.D
Acq: 19 Jul 2018 20:15

Tgt Ion: 43 Resp: 497653
Ion Ratio Lower Upper
43 100
58 24.3 21.8 32.6





#19

Isopropyl Alcohol

Concen: 0.492 ppbv

RT: 4.11 min Scan# 941

Delta R.T. 0.03 min

Lab File: VL032296.D

Acq: 19 Jul 2018 20:15

Instrument :

MSVOA_L

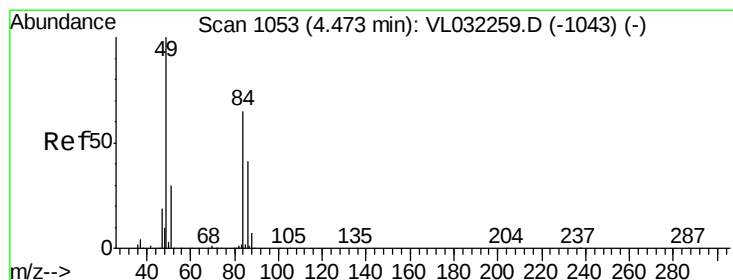
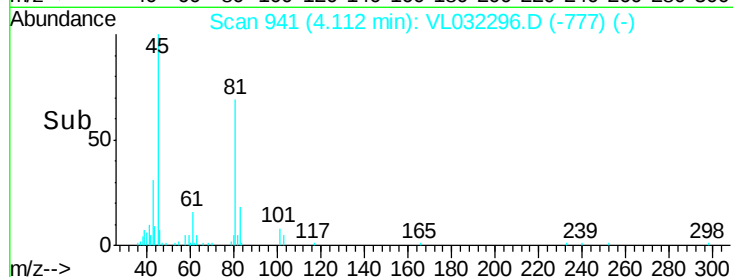
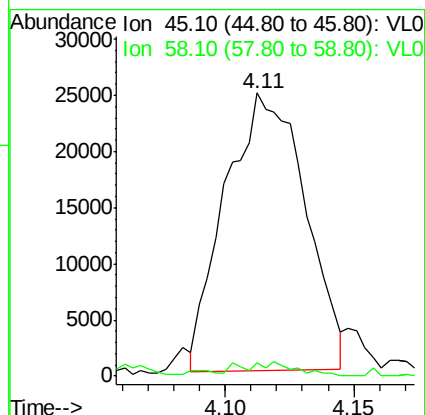
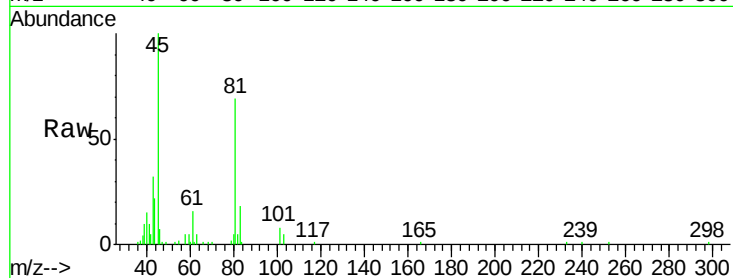
ClientSampled :

Tot Ion: 45 Resp: 53407

Ion Ratio Lower Upper

45 100

58 228.2 1.5 2.3#



#20

Methylene Chloride

Concen: 0.600 ppbv

RT: 4.47 min Scan# 1053

Delta R.T. 0.00 min

Lab File: VL032296.D

Acq: 19 Jul 2018 20:15

Tgt Ion: 84 Resp: 37053

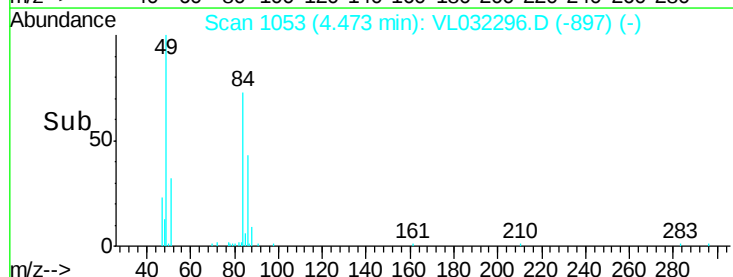
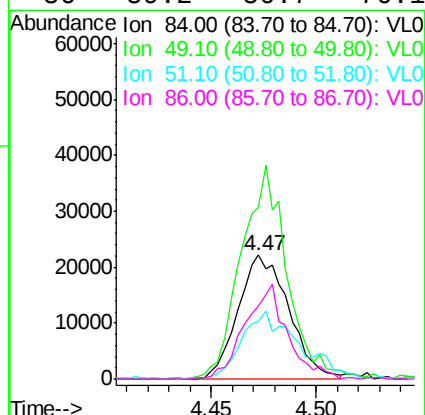
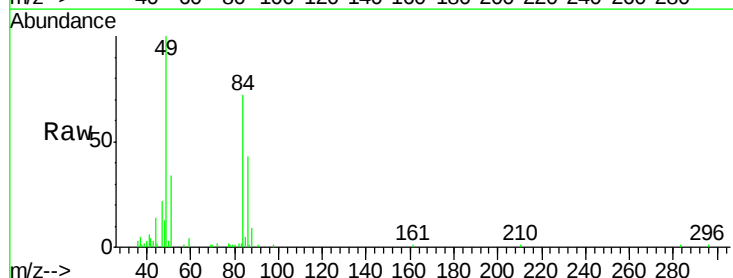
Ion Ratio Lower Upper

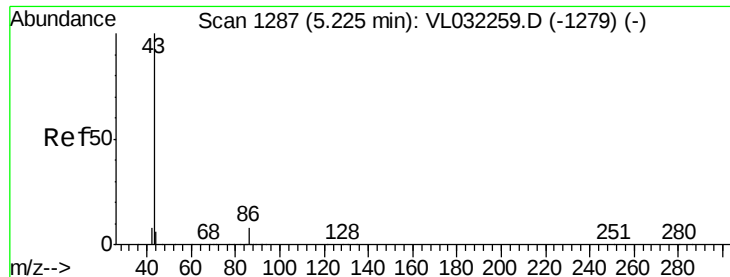
84 100

49 137.6 122.4 183.6

51 45.4 36.8 55.2

86 59.2 50.7 76.1

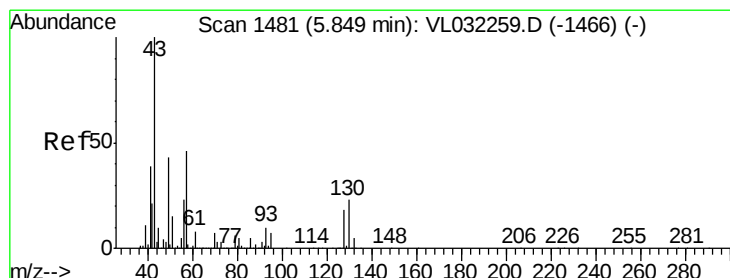
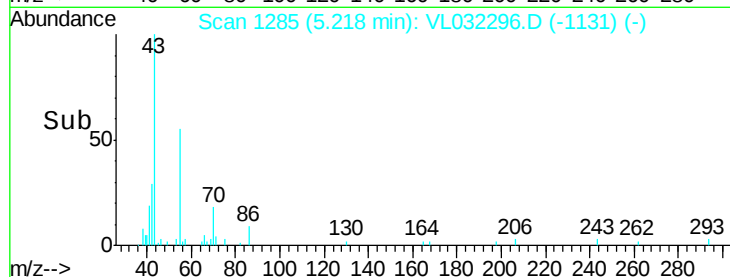
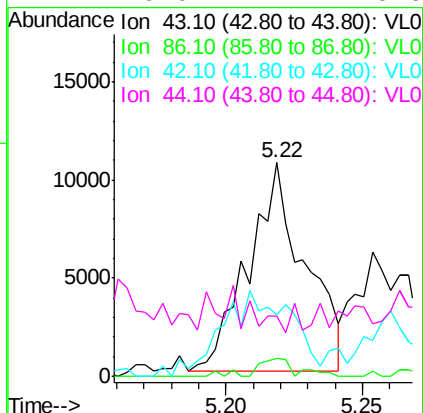
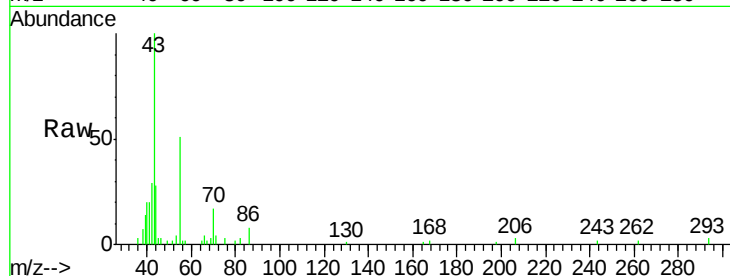




#23
 Vinyl Acetate
 Concen: 0.053 ppbv
 RT: 5.22 min Scan# 1285
 Delta R.T. -0.01 min
 Lab File: VL032296.D
 Acq: 19 Jul 2018 20:15

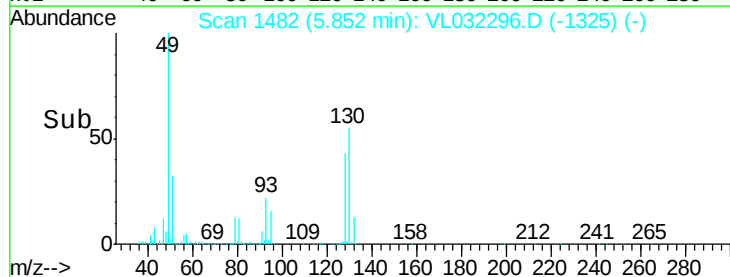
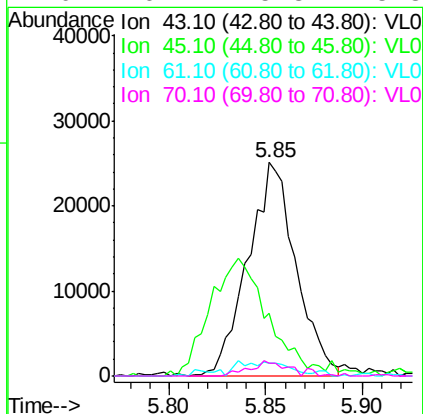
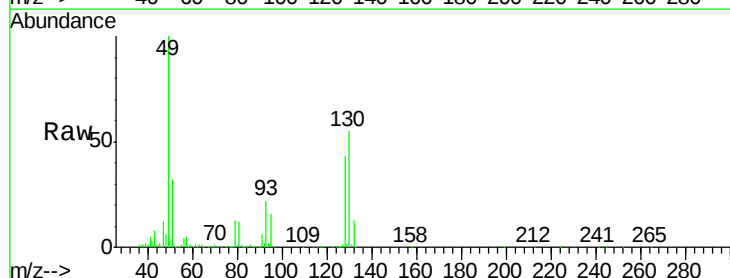
Instrument :
 MSVOA_L
 ClientSampleId :

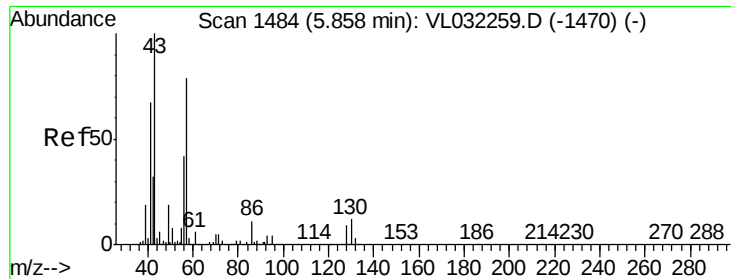
Tot Ion:	43	Resp:	15378
Ion	Ratio	Lower	Upper
43	100		
86	8.5	5.9	8.9
42	25.8	7.3	10.9#
44	0.0	4.4	6.6#



#25
 Ethyl Acetate
 Concen: 0.124 ppbv
 RT: 5.85 min Scan# 1482
 Delta R.T. 0.00 min
 Lab File: VL032296.D
 Acq: 19 Jul 2018 20:15

Tgt Ion:	43	Resp:	43345
Ion	Ratio	Lower	Upper
43	100		
45	68.4	7.9	11.9#
61	8.8	7.6	11.4
70	6.4	5.8	8.8

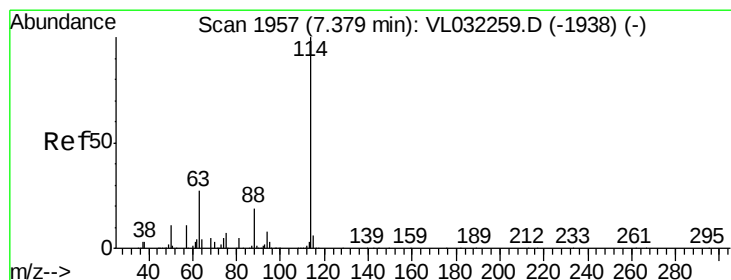
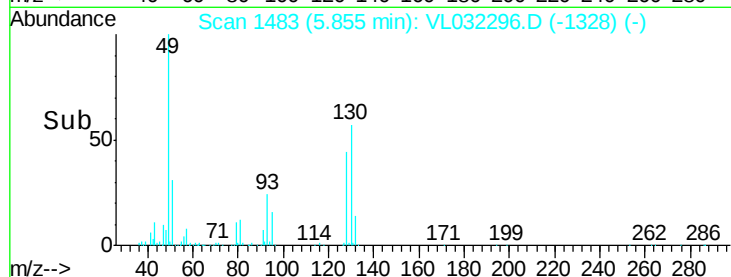
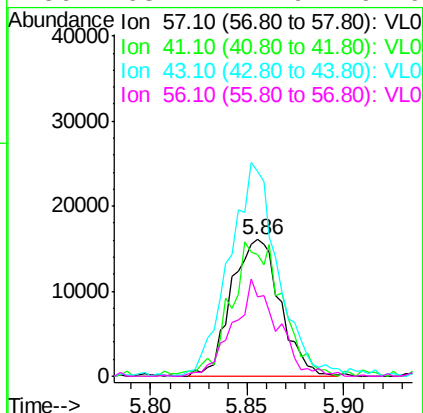
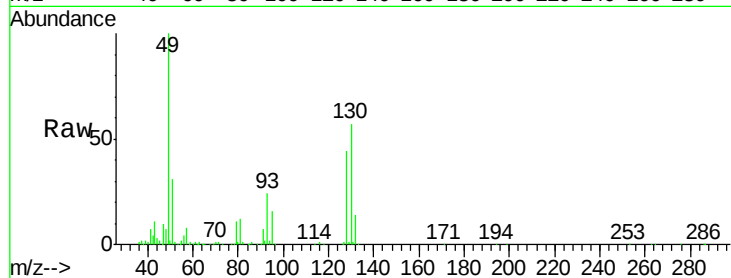




#26
Hexane
Concen: 0.177 ppbv
RT: 5.86 min Scan# 1483
Delta R.T. -0.00 min
Lab File: VL032296.D
Acq: 19 Jul 2018 20:15

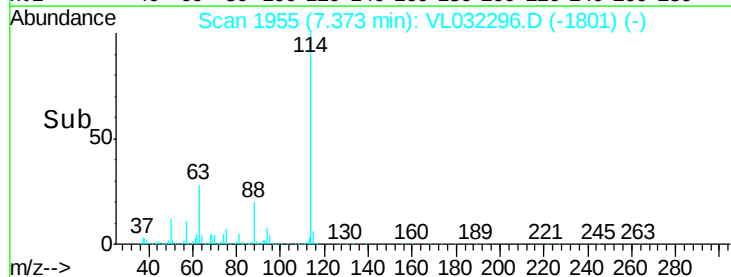
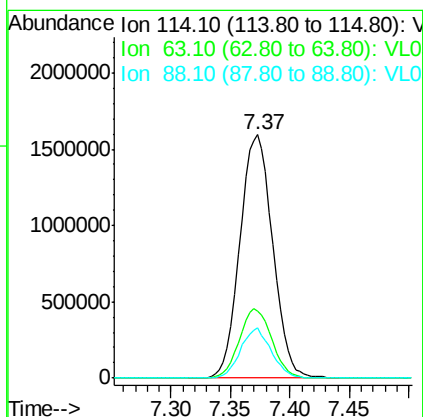
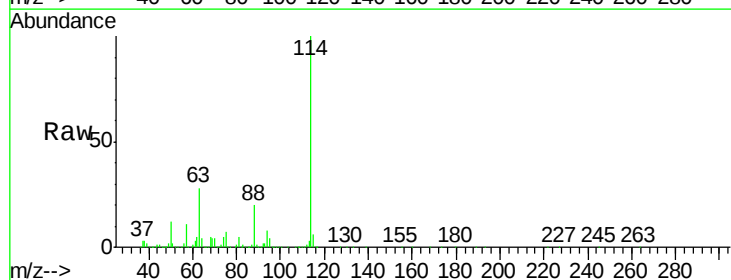
Instrument :
MSVOA_L
ClientSampleId :

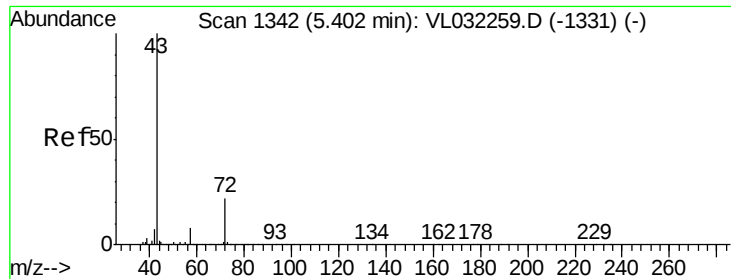
Tot Ion: 57 Resp: 28337
Ion Ratio Lower Upper
57 100
41 105.0 67.9 101.9#
43 159.3 175.9 263.9#
56 63.4 41.9 62.9#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.37 min Scan# 1955
Delta R.T. -0.01 min
Lab File: VL032296.D
Acq: 19 Jul 2018 20:15

Tgt Ion: 114 Resp: 3047745
Ion Ratio Lower Upper
114 100
63 28.2 22.6 33.8
88 19.3 15.2 22.8

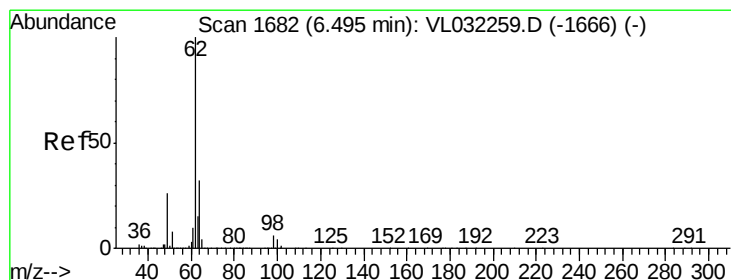
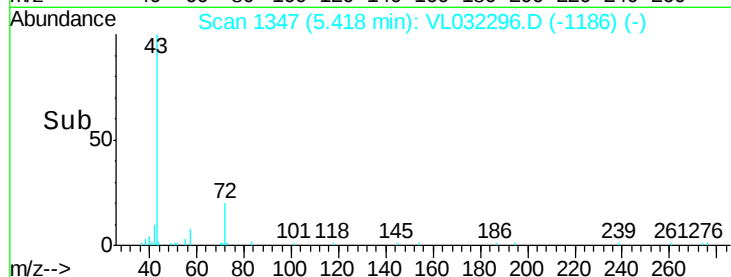
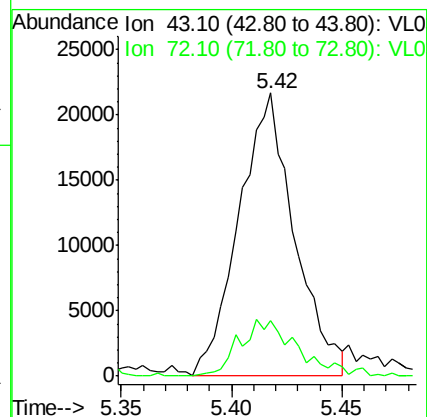
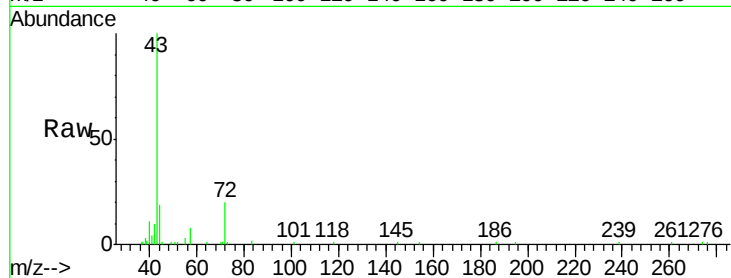




#34
2-Butanone
Concen: 0.182 ppbv
RT: 5.42 min Scan# 1347
Delta R.T. 0.02 min
Lab File: VL032296.D
Acq: 19 Jul 2018 20:15

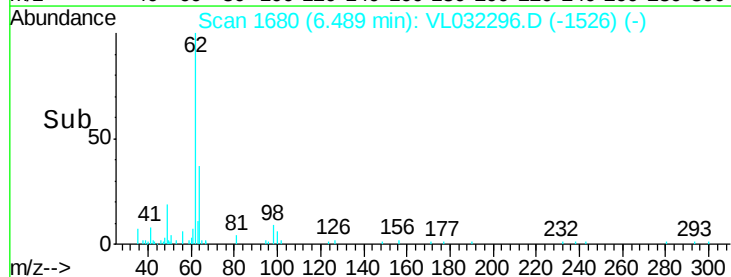
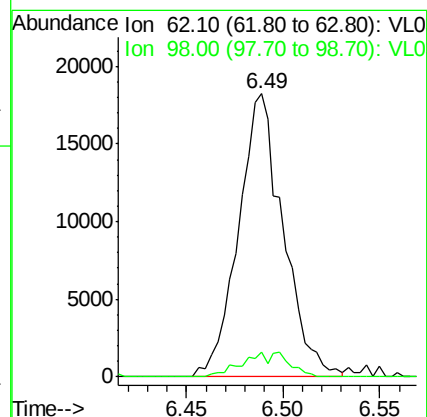
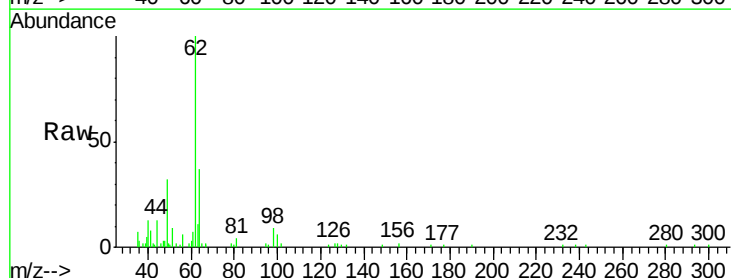
Instrument :
MSVOA_L
ClientSampleId :

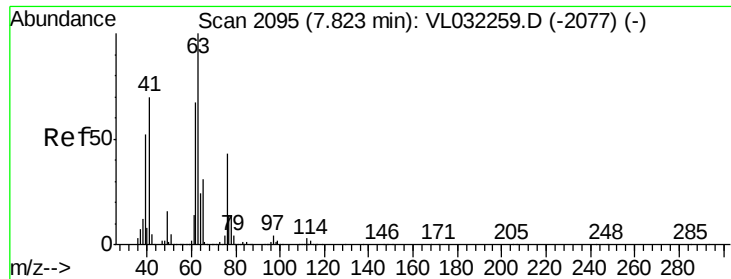
Tot Ion: 43 Resp: 38061
Ion Ratio Lower Upper
43 100
72 21.1 17.7 26.5



#37
1,2-Dichloroethane
Concen: 0.165 ppbv
RT: 6.49 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VL032296.D
Acq: 19 Jul 2018 20:15

Tgt Ion: 62 Resp: 29314
Ion Ratio Lower Upper
62 100
98 9.1 4.9 7.3#

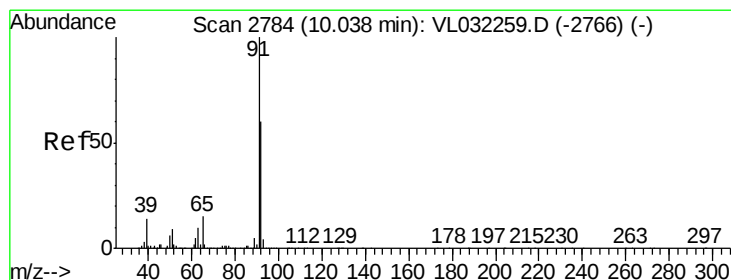
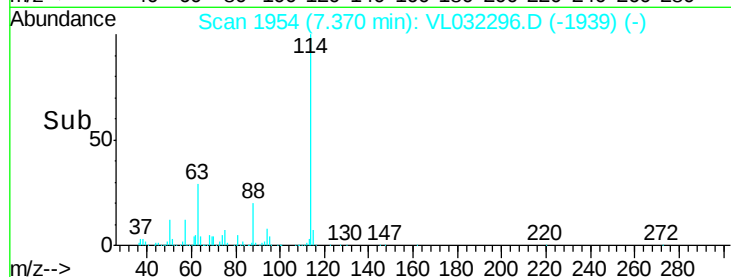
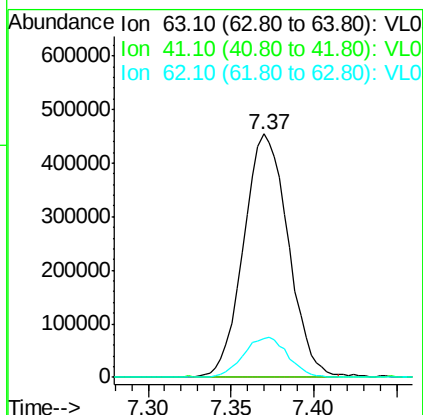
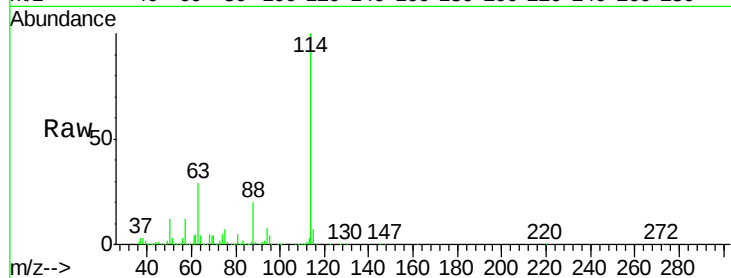




#39
 1,2-Dichloropropane
 Concen: 7.191 ppbv
 RT: 7.37 min Scan# 1954
 Delta R.T. -0.45 min
 Lab File: VL032296.D
 Acq: 19 Jul 2018 20:15

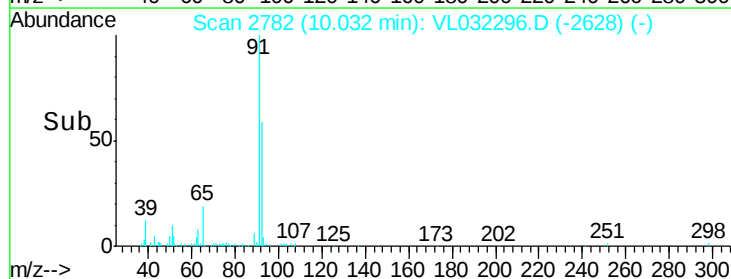
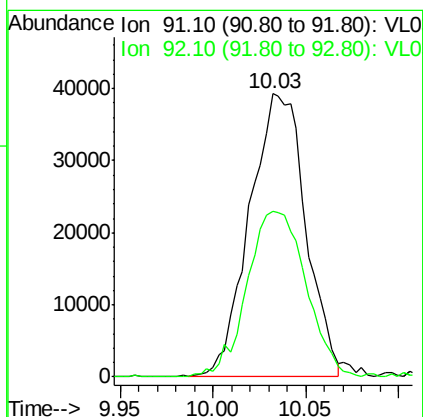
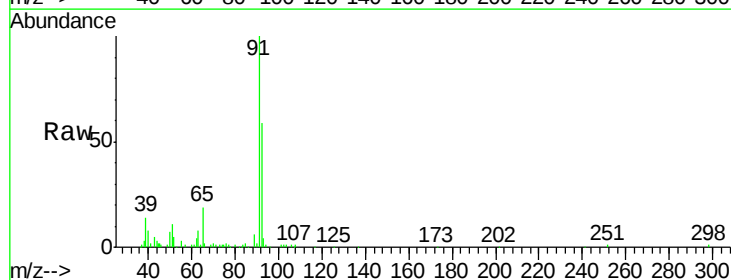
Instrument :
 MSVOA_L
 ClientSampleId :

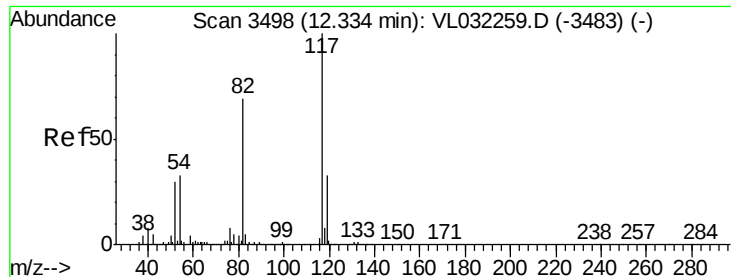
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	55.8	83.6#
62	16.0	53.8	80.8#



#53
 Toluene
 Concen: 0.227 ppbv
 RT: 10.03 min Scan# 2782
 Delta R.T. -0.01 min
 Lab File: VL032296.D
 Acq: 19 Jul 2018 20:15

Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.7	48.6	72.8

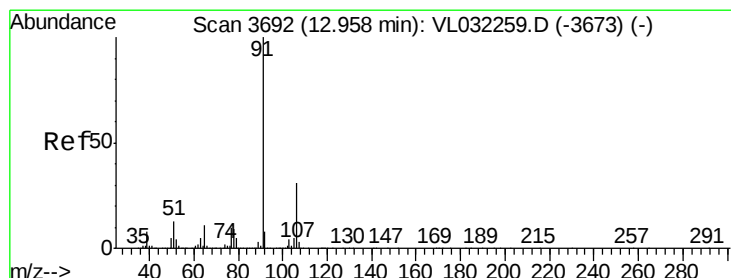
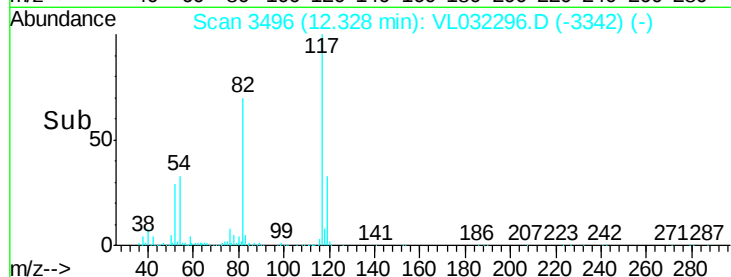
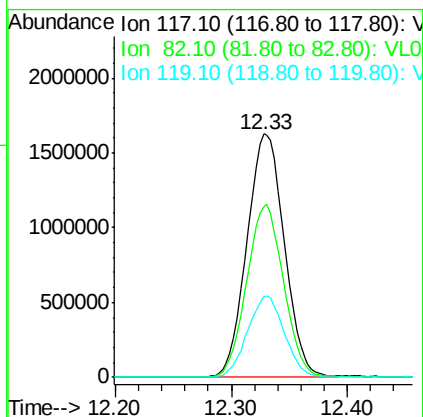
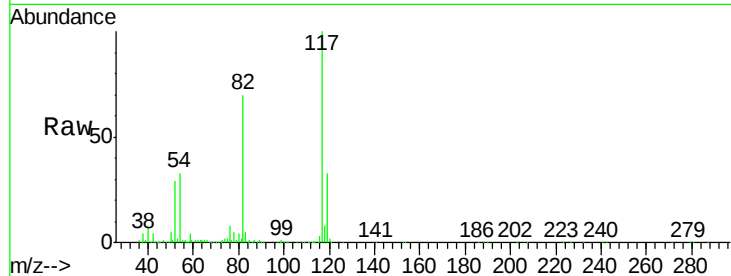




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.33 min Scan# 3496
Delta R.T. -0.01 min
Lab File: VL032296.D
Acq: 19 Jul 2018 20:15

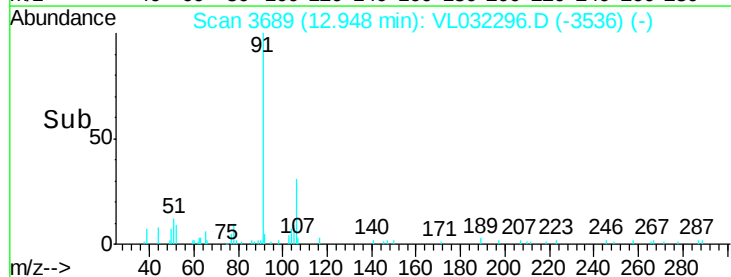
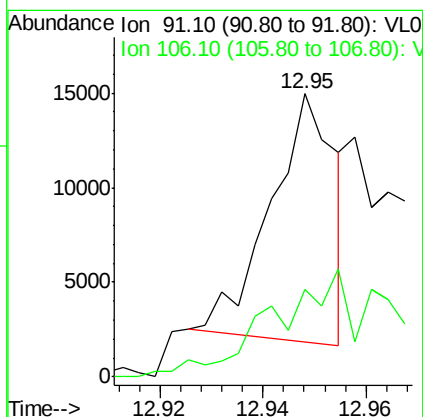
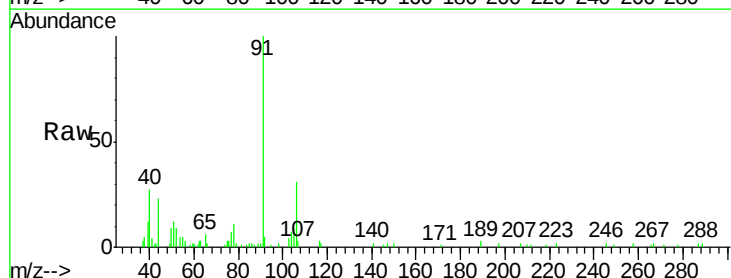
Instrument :
MSVOA_L
ClientSampleId :

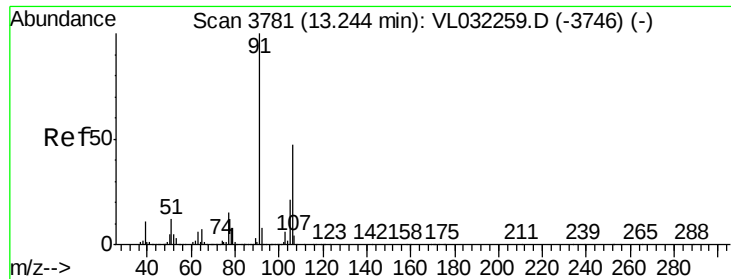
Tot Ion:117 Resp: 3658380
Ion Ratio Lower Upper
117 100
82 70.1 53.9 80.9
119 32.9 25.5 38.3



#58
Ethyl Benzene
Concen: 0.022 ppbv
RT: 12.95 min Scan# 3689
Delta R.T. -0.01 min
Lab File: VL032296.D
Acq: 19 Jul 2018 20:15

Tgt Ion: 91 Resp: 11298
Ion Ratio Lower Upper
91 100
106 29.8 24.5 36.7





#59

m/p-Xylene

Concen: 0.040 ppbv

RT: 13.23 min Scan# 3777

Delta R.T. -0.01 min

Lab File: VL032296.D

Acq: 19 Jul 2018 20:15

Instrument :

MSVOA_L

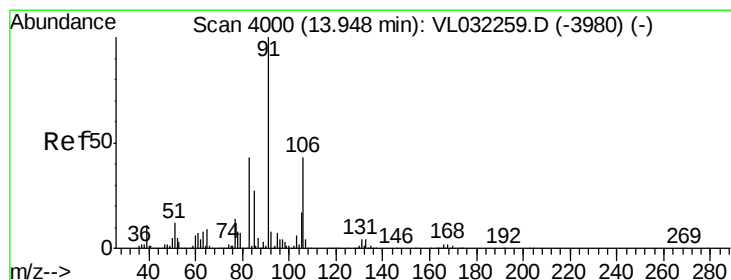
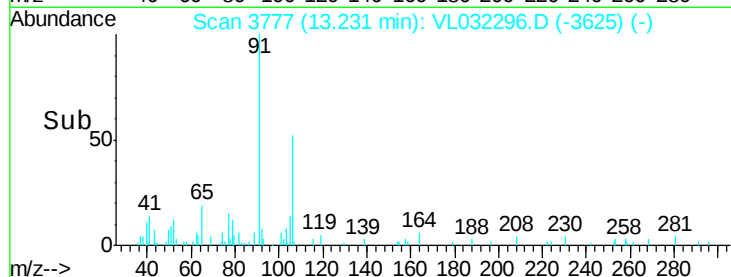
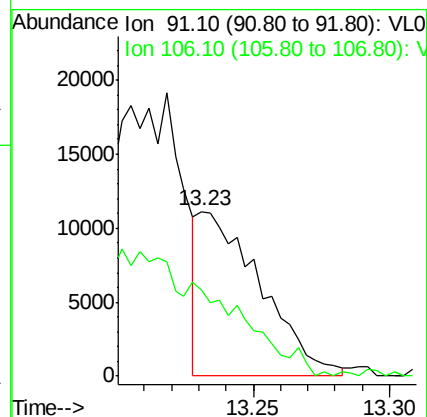
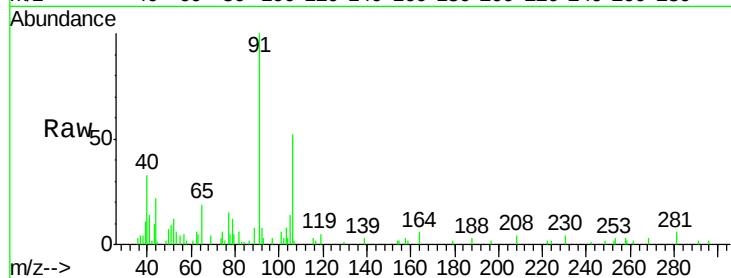
ClientSampled :

Tot Ion: 91 Resp: 17522

Ion Ratio Lower Upper

91 100

106 0.0 36.2 54.2#



#60

o-Xylene

Concen: 0.048 ppbv

RT: 13.94 min Scan# 3998

Delta R.T. -0.01 min

Lab File: VL032296.D

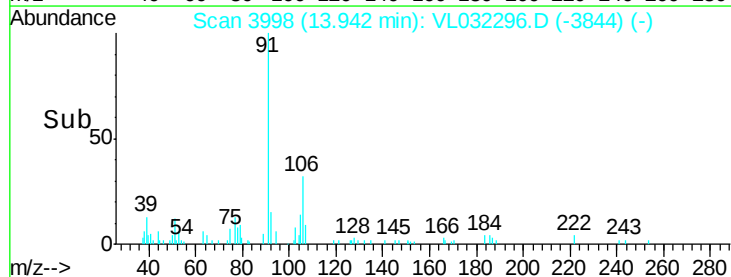
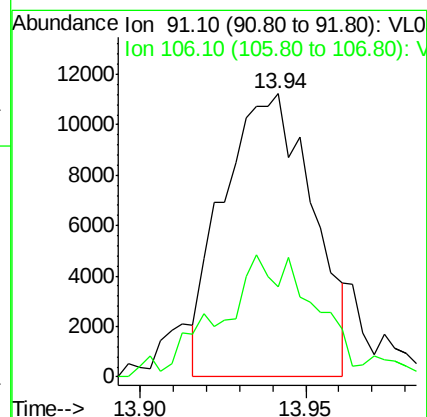
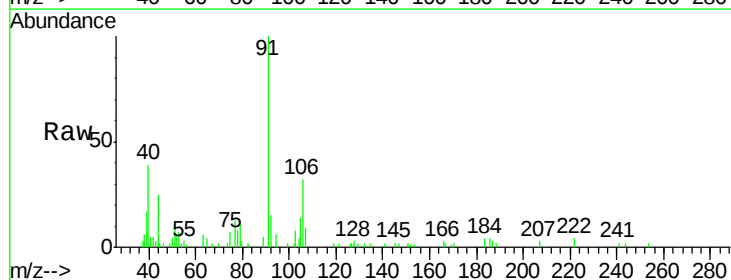
Acq: 19 Jul 2018 20:15

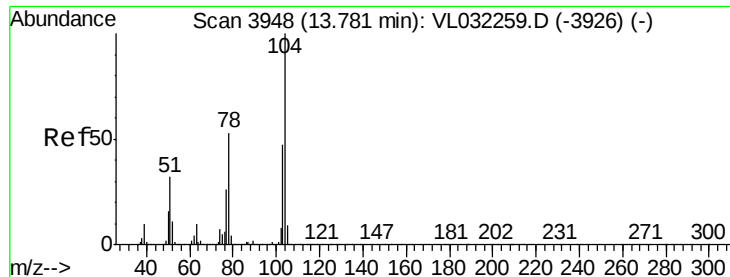
Tgt Ion: 91 Resp: 21015

Ion Ratio Lower Upper

91 100

106 48.7 21.7 65.1

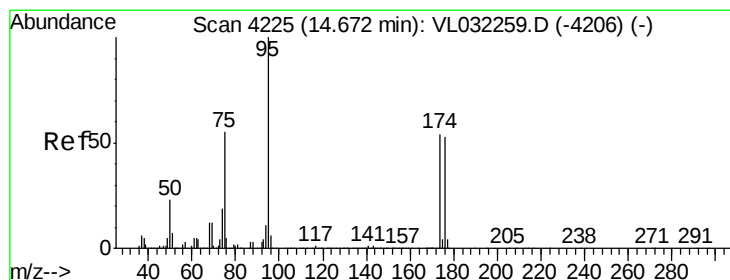
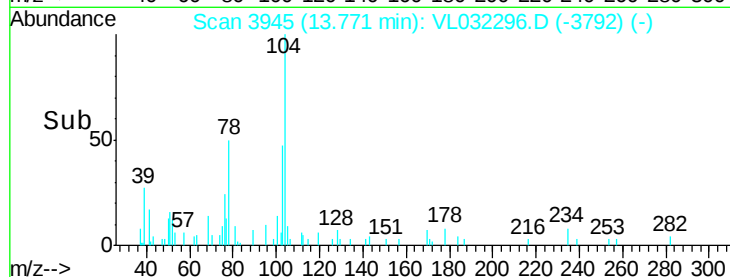
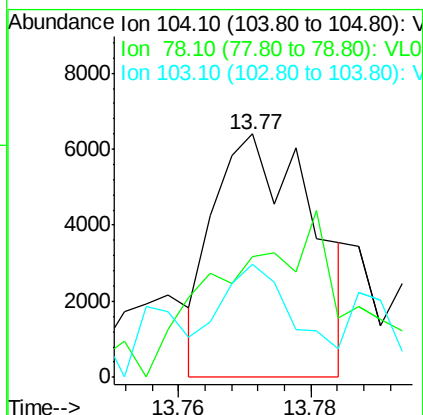
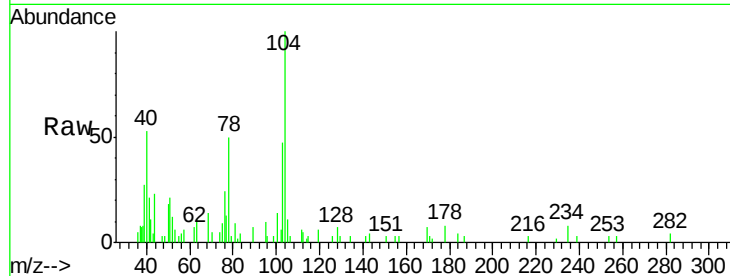




#61
Stvrene
Concen: 0.020 ppbv
RT: 13.77 min Scan# 3945
Delta R.T. -0.01 min
Lab File: VL032296.D
Acq: 19 Jul 2018 20:15

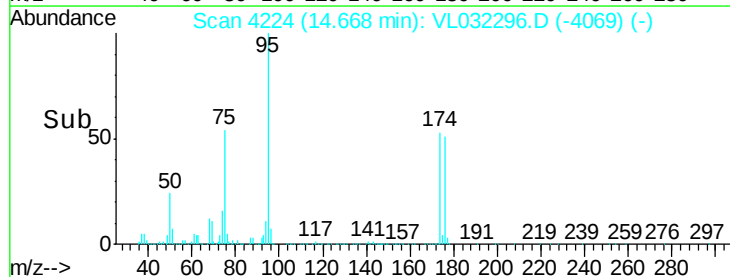
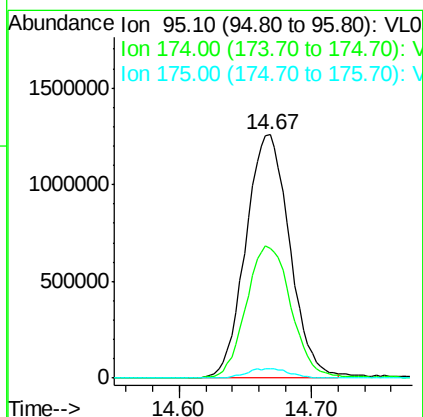
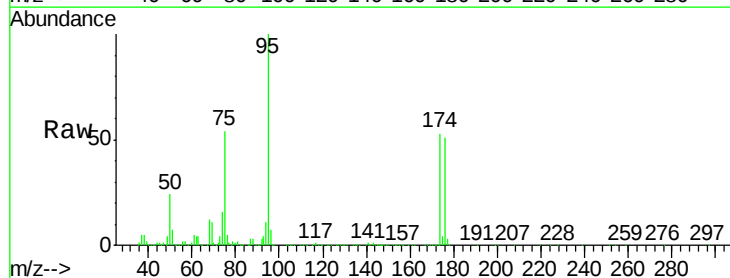
Instrument :
MSVOA_L
ClientSampleId :

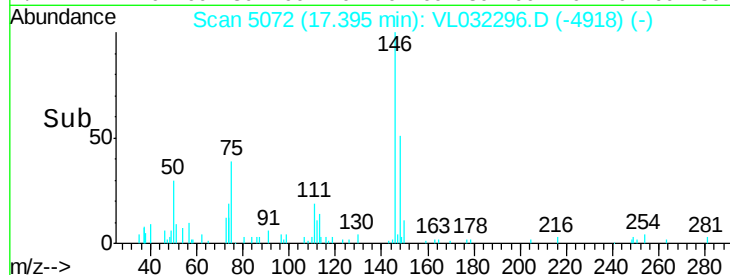
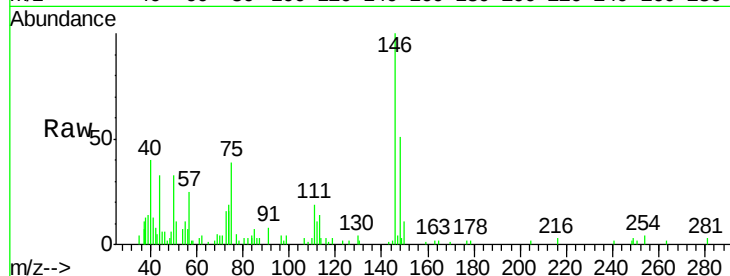
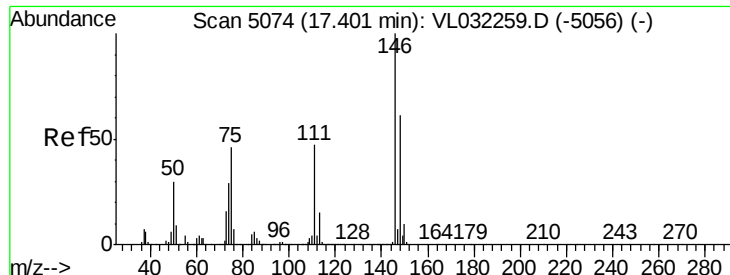
Tot Ion:104 Resp: 6617
Ion Ratio Lower Upper
104 100
78 108.7 43.2 64.8#
103 79.9 37.8 56.6#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.777 ppbv
RT: 14.67 min Scan# 4224
Delta R.T. -0.00 min
Lab File: VL032296.D
Acq: 19 Jul 2018 20:15

Tgt Ion: 95 Resp: 2899892
Ion Ratio Lower Upper
95 100
174 56.1 44.3 66.5
175 4.0 3.3 4.9





#76

1,4-Dichlorobenzene

Concen: 0.032 ppbv

RT: 17.39 min Scan# 5072

Delta R.T. -0.01 min

Lab File: VL032296.D

Acq: 19 Jul 2018 20:15

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:146 Resp: 9047

Ion Ratio Lower Upper

146 100

111 0.0 24.1 72.2#

148 0.0 31.9 95.9#

