

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL083118\
 Data File : VL032441.D
 Acq On : 31 Aug 2018 15:04
 Operator : SY/AP
 Sample : J4472-01
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

Quant Time: Sep 01 02:00:55 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL083118AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31 21:33:46 2018

QLast Update : Fri Aug 31 21:33:46 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.80	49	1795442	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.34	114	3455811	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.29	117	3336015	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.62	95	2581773	10.42	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.20%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.10	85	58286	0.254	ppbv	90
3) Chlorodifluoromethane	3.04	51	195370	1.202	ppbv	95
4) Chloromethane	3.20	50	46004	0.467	ppbv	91
6) Bromomethane	3.54	94	4738	0.093	ppbv #	68
8) Dichlorotetrafluoroethane	3.25	85	6481	0.032	ppbv	99
9) Propene	3.06	41	5224947	79.697	ppbv	99
10) Heptane	8.29	43	23776	0.101	ppbv	87
11) Trichlorofluoromethane	4.04	101	221309	1.069	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.59	101	9966	0.071	ppbv #	60
13) Ethanol	3.68	45	817125	39.985	ppbv	98
15) Acetone	3.93	43	1133148	7.008	ppbv	98
16) 1,3-Butadiene	3.06	39	4207035	55.296	ppbv #	1
17) tert-Butyl alcohol	4.41	59	34266	1.377	ppbv #	100
19) Isopropyl Alcohol	4.06	45	1100977	10.380	ppbv	100
20) Methylene Chloride	4.44	84	415108	6.733	ppbv	97
23) Vinyl Acetate	5.18	43	89360	0.333	ppbv #	58
25) Ethyl Acetate	5.82	43	709447	1.858	ppbv #	82
26) Hexane	5.82	57	860693	5.034	ppbv #	49
27) Carbon Disulfide	4.66	76	14957	0.095	ppbv #	90
29) Chloroform	5.89	83	28285	0.109	ppbv #	81
30) Cyclohexane	7.29	84	10257	0.082	ppbv #	1
32) 1,1,1-Trichloroethane	6.66	97	15587	0.064	ppbv	98
34) 2-Butanone	5.37	43	441577	1.924	ppbv	100
35) Carbon Tetrachloride	7.18	117	18299	0.079	ppbv	97
36) Benzene	7.04	78	531217	1.806	ppbv	98
38) Trichloroethene	8.01	130	35287	0.316	ppbv #	87
39) 1,2-Dichloropropane	7.33	63	942295	7.489	ppbv #	25
44) 2,2,4-Trimethylpentane	8.04	57	148700	0.262	ppbv #	78
50) 4-Methyl-2-Pentanone	8.93	43	90948	0.263	ppbv	98
51) 2-Hexanone	10.33	43	23017	0.103	ppbv #	29
52) Tetrachloroethene	11.42	164	64802	0.711	ppbv	84
53) Toluene	9.99	91	661081	2.151	ppbv	99
58) Ethyl Benzene	12.91	91	66332	0.166	ppbv	94
59) m/p-Xylene	13.17	91	183236	0.515	ppbv	99
60) o-Xylene	13.90	91	86714	0.248	ppbv	97
61) Styrene	13.73	104	63123	0.279	ppbv	96
67) sec-Butylbenzene	17.51	105	20386	0.032	ppbv #	82
69) p-Isopropyltoluene	17.85	119	19437	0.039	ppbv #	47
70) n-Butylbenzene	18.77	91	39974	0.071	ppbv #	76
72) 4-Ethyltoluene	16.05	105	25921	0.068	ppbv #	70
73) 1,3,5-Trimethylbenzene	16.20	105	31014	0.081	ppbv	91

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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31 21:33:46 2018
 QLast Update : Fri Aug 31 21:33:46 2018
 Response via : Initial Calibration

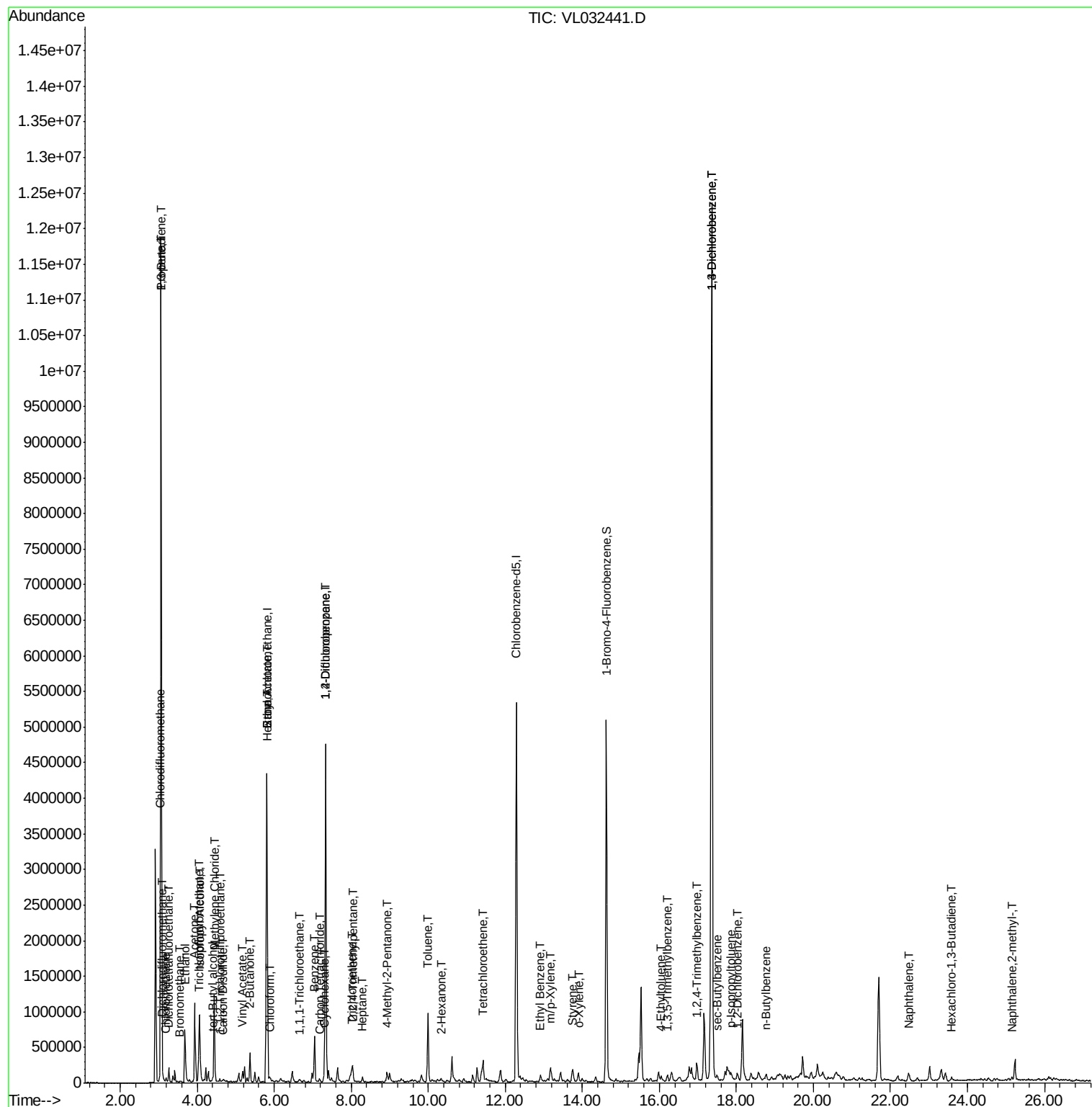
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 1,2,4-Trimethylbenzene	16.97	105	126130	0.302	ppbv #	73
75) 1,3-Dichlorobenzene	17.36	146	6618105	26.679	ppbv	99
76) 1,4-Dichlorobenzene	17.36	146	6618105	28.753	ppbv	99
77) 1,2-Dichlorobenzene	18.03	146	8241	0.034	ppbv #	1
78) Hexachloro-1,3-Butadiene	23.59	225	10435	0.117	ppbv	98
79) Naphthalene	22.48	128	36051	0.106	ppbv	97
80) Naphthalene,2-methyl-	25.16	142	25752	0.285	ppbv	98

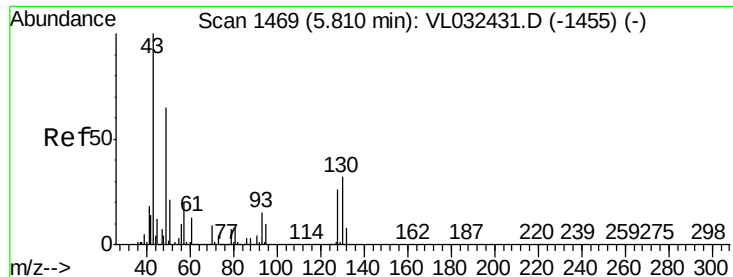
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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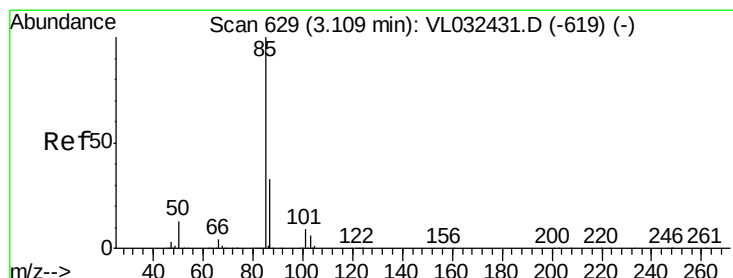
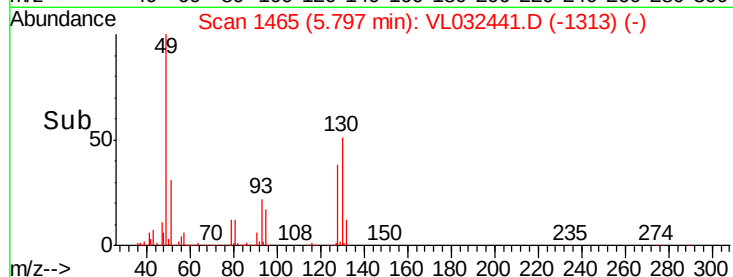
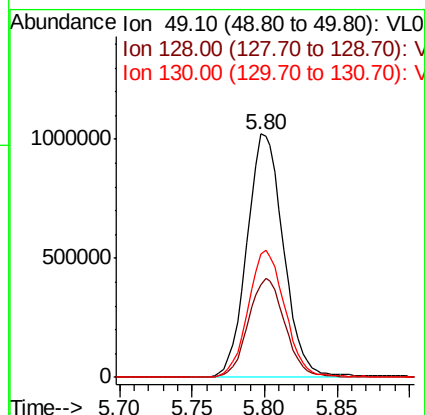
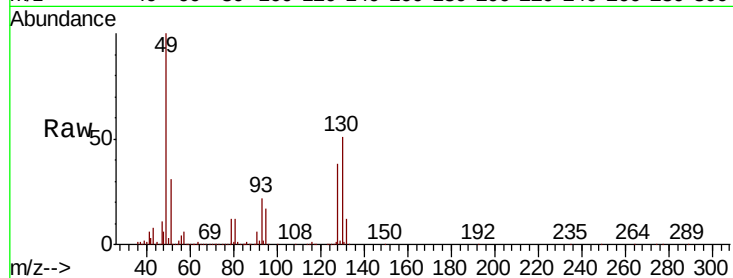




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.80 min Scan# 1465
 Delta R.T. -0.01 min
 Lab File: VL032441.D
 Acq: 31 Aug 2018 15:04

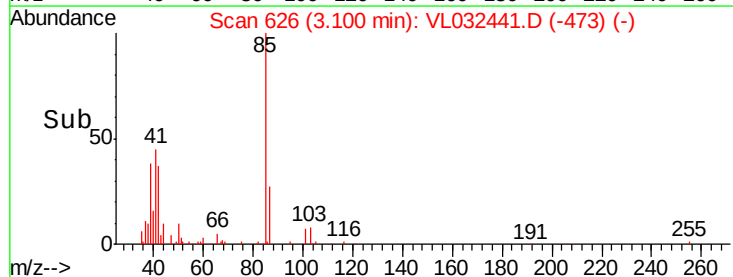
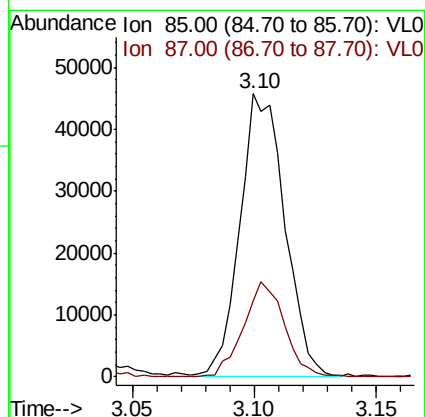
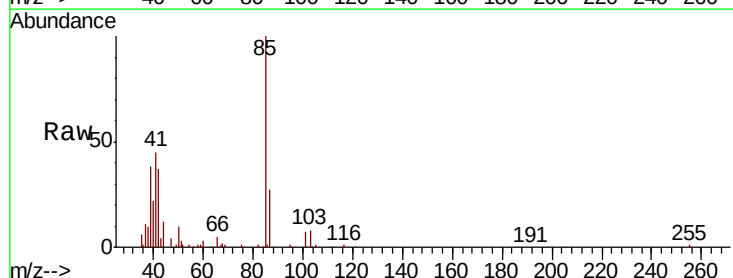
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

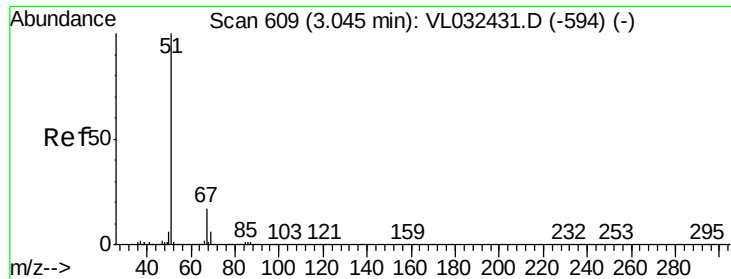
Tgt Ion: 49 Resp: 1795442
 Ion Ratio Lower Upper
 49 100
 128 41.0 20.7 62.1
 130 53.0 26.6 79.7



#2
 Dichlorodifluoromethane
 Concen: 0.254 ppbv
 RT: 3.10 min Scan# 626
 Delta R.T. -0.01 min
 Lab File: VL032441.D
 Acq: 31 Aug 2018 15:04

Tgt Ion: 85 Resp: 58286
 Ion Ratio Lower Upper
 85 100
 87 27.1 26.2 39.4

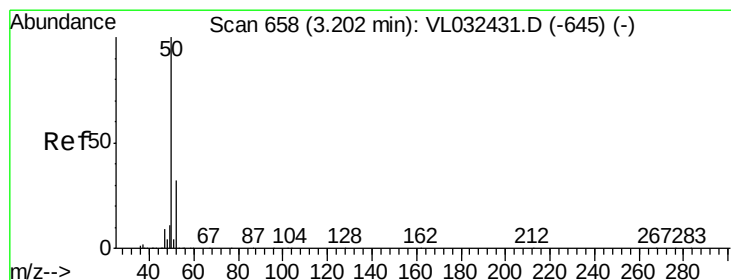
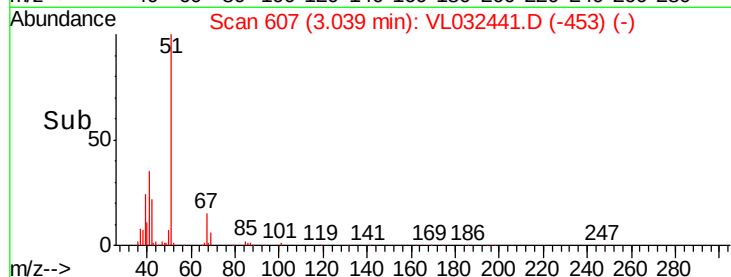
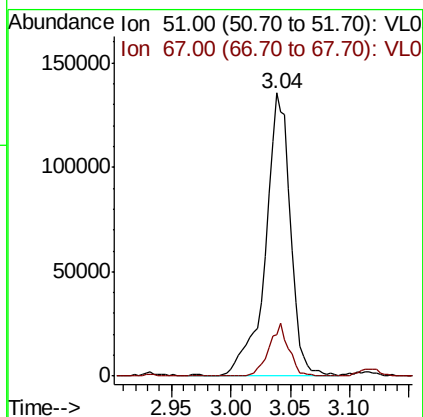
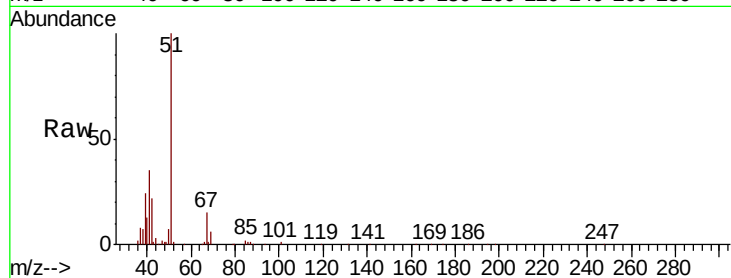




#3
Chlorodifluoromethane
Concen: 1.202 ppbv
RT: 3.04 min Scan# 607
Delta R.T. -0.01 min
Lab File: VL032441.D
Acq: 31 Aug 2018 15:04

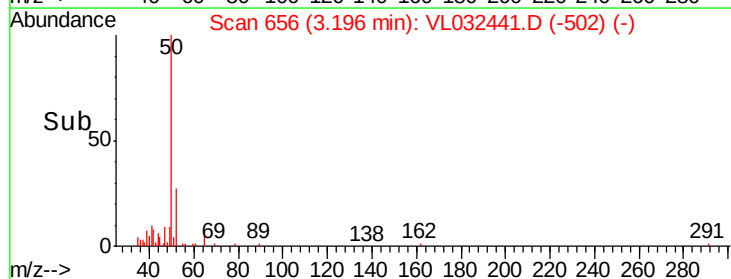
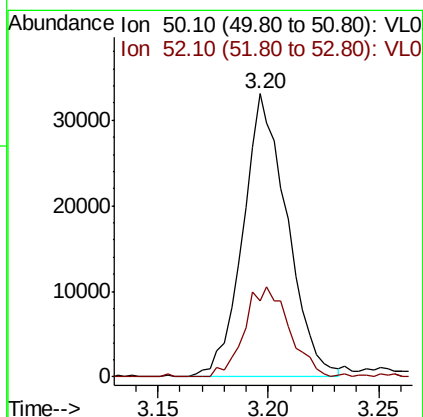
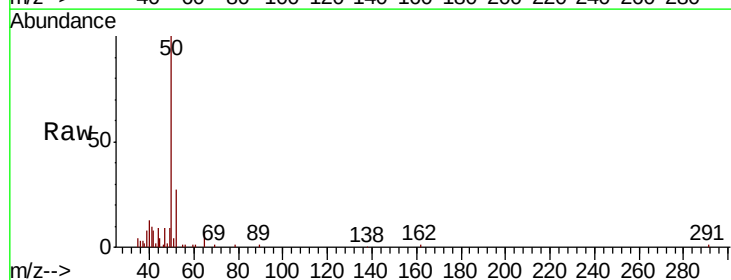
Instrument :
MSVOA_L
ClientSampleId :
SS-1

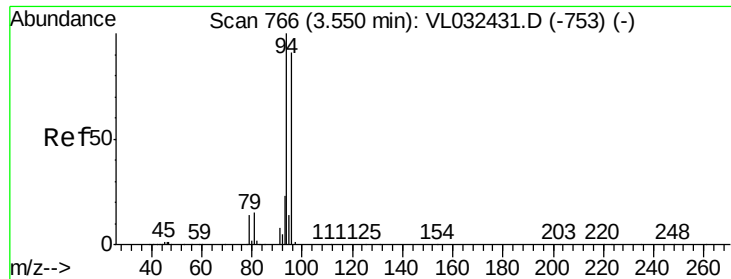
Tgt Ion: 51 Resp: 195370
Ion Ratio Lower Upper
51 100
67 15.0 13.8 20.8



#4
Chloromethane
Concen: 0.467 ppbv
RT: 3.20 min Scan# 656
Delta R.T. -0.01 min
Lab File: VL032441.D
Acq: 31 Aug 2018 15:04

Tgt Ion: 50 Resp: 46004
Ion Ratio Lower Upper
50 100
52 27.0 25.6 38.4





#6

Bromomethane

Concen: 0.093 ppbv

RT: 3.54 min Scan# 764

Delta R.T. -0.01 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

Instrument :

MSVOA_L

ClientSampleId :

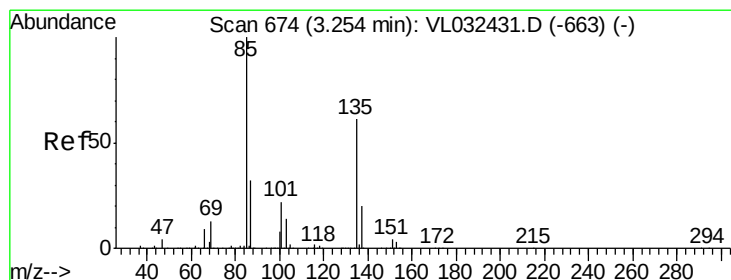
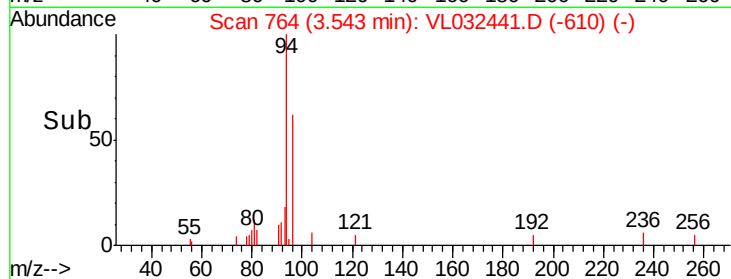
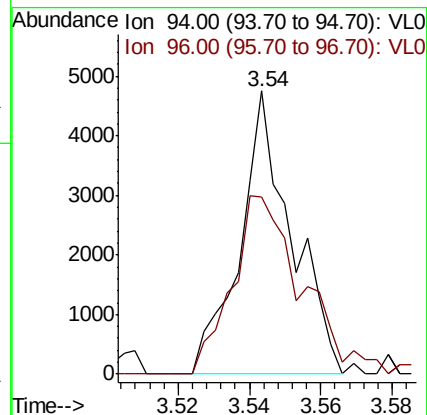
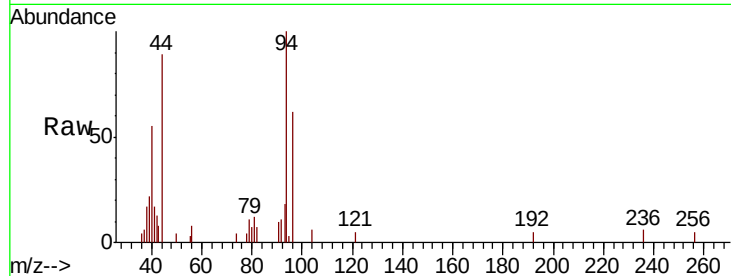
SS-1

Tgt Ion: 94 Resp: 4738

Ion Ratio Lower Upper

94 100

96 60.6 72.8 109.2#



#8

Dichlorotetrafluoroethane

Concen: 0.032 ppbv

RT: 3.25 min Scan# 672

Delta R.T. -0.01 min

Lab File: VL032441.D

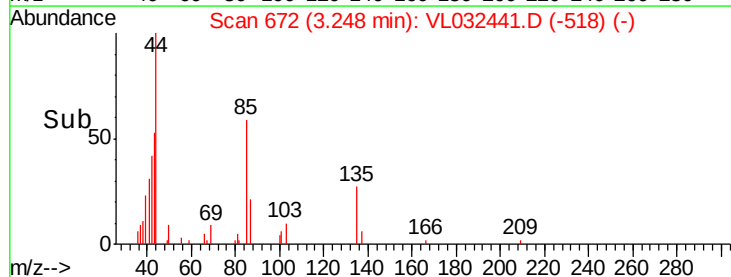
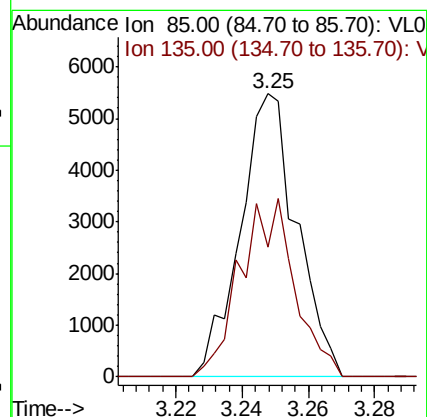
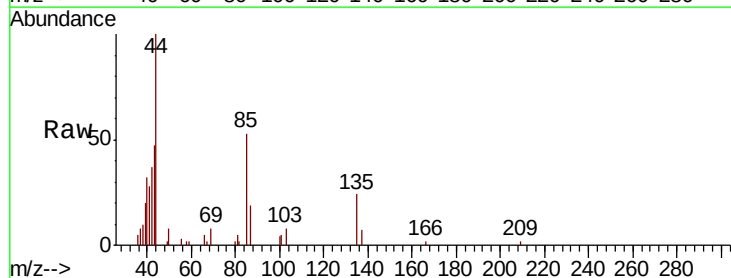
Acq: 31 Aug 2018 15:04

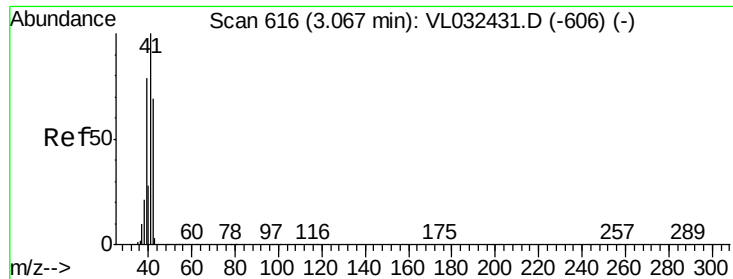
Tgt Ion: 85 Resp: 6481

Ion Ratio Lower Upper

85 100

135 60.3 48.6 72.8





#9

Propene

Concen: 79.697 ppbv

RT: 3.06 min Scan# 615

Delta R.T. -0.00 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

Instrument :

MSVOA_L

ClientSampleId :

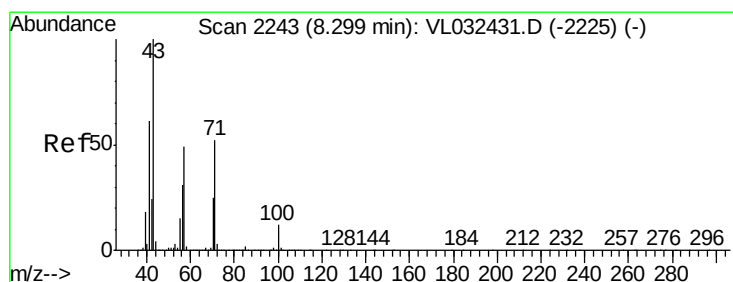
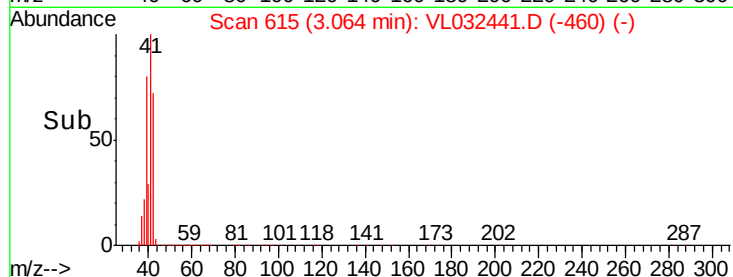
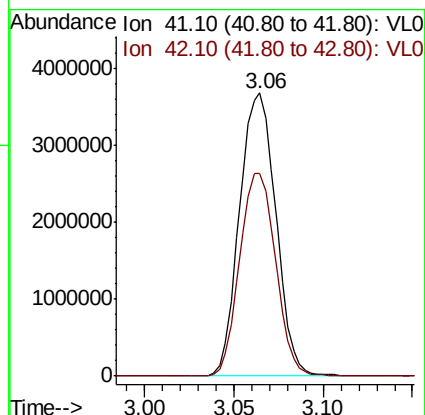
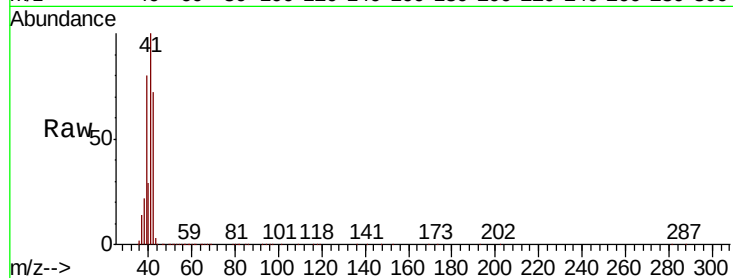
SS-1

Tgt Ion: 41 Resp: 5224947

Ion Ratio Lower Upper

41 100

42 71.3 56.6 84.8



#10

Heptane

Concen: 0.101 ppbv

RT: 8.29 min Scan# 2240

Delta R.T. -0.01 min

Lab File: VL032441.D

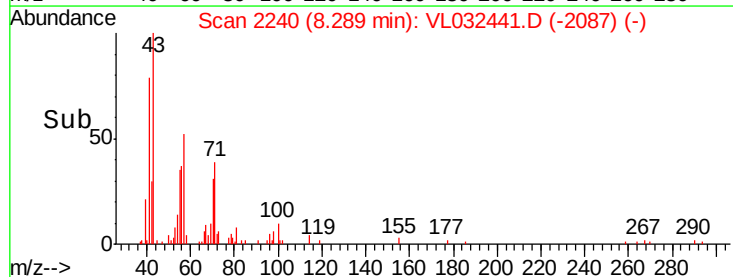
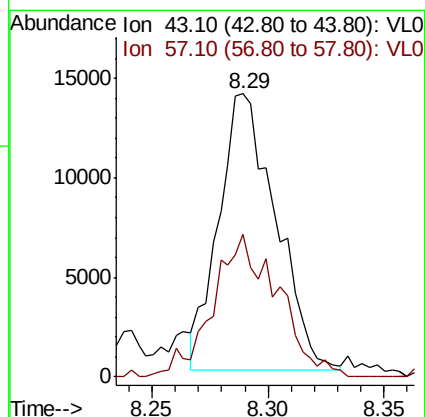
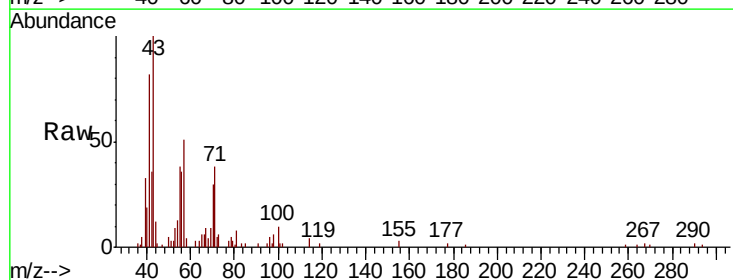
Acq: 31 Aug 2018 15:04

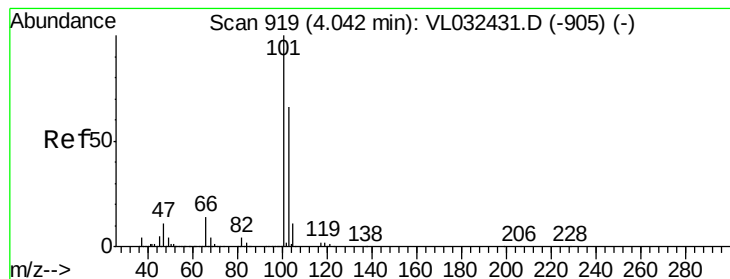
Tgt Ion: 43 Resp: 23776

Ion Ratio Lower Upper

43 100

57 58.7 39.6 59.4





#11

Trichlorofluoromethane

Concen: 1.069 ppbv

RT: 4.04 min Scan# 918

Delta R.T. -0.00 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

Instrument :

MSVOA_L

ClientSampleId :

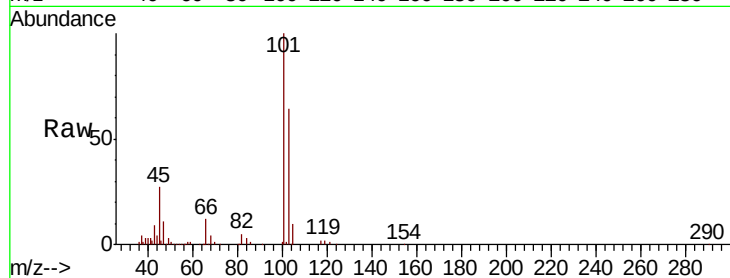
SS-1

Tgt Ion:101 Resp: 221309

Ion Ratio Lower Upper

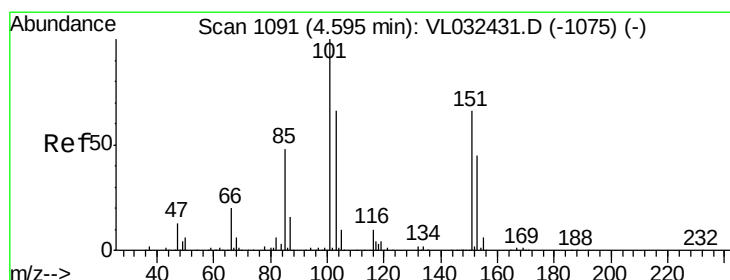
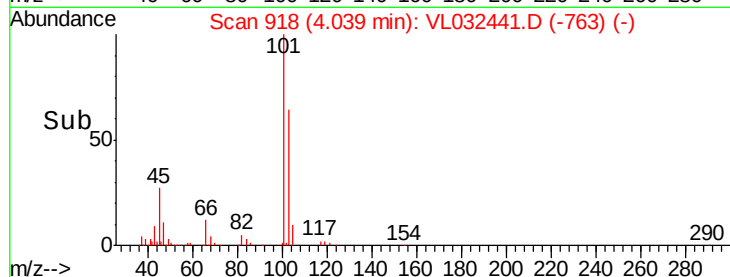
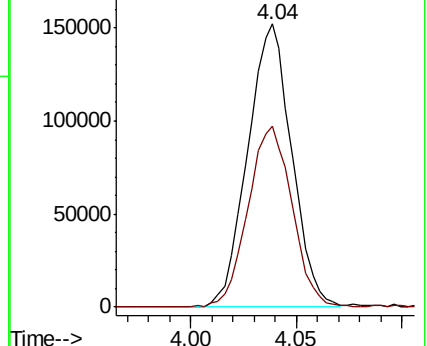
101 100

103 64.0 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.071 ppbv

RT: 4.59 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VL032441.D

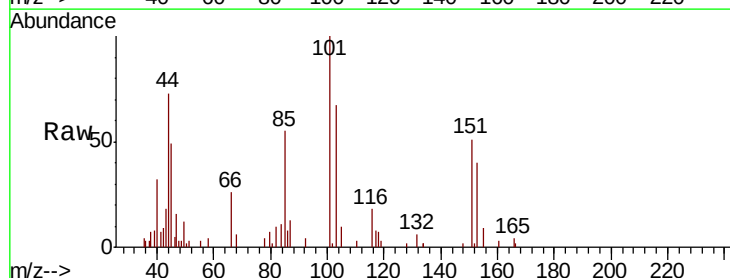
Acq: 31 Aug 2018 15:04

Tgt Ion:101 Resp: 9966

Ion Ratio Lower Upper

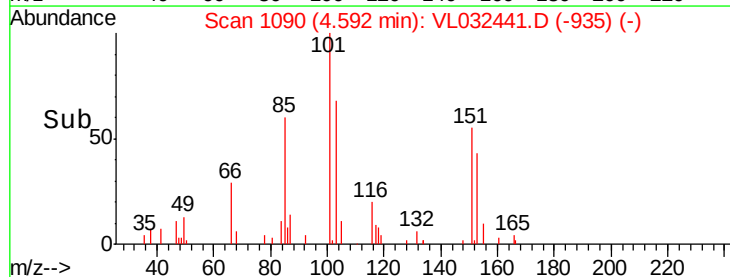
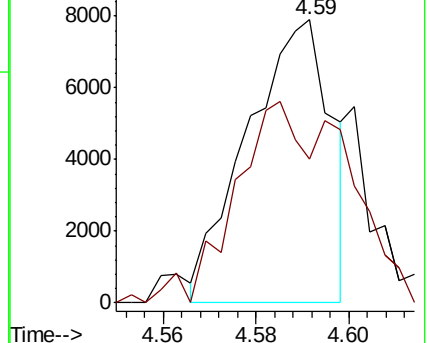
101 100

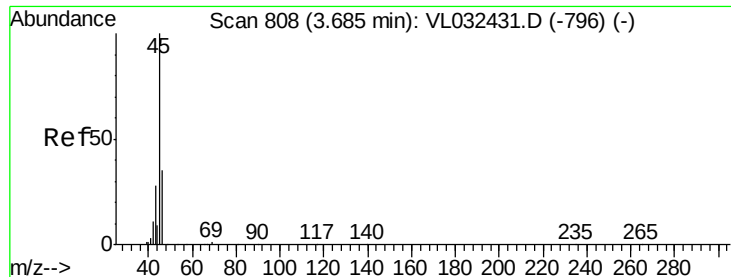
151 97.2 52.6 78.8#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 39.985 ppbv

RT: 3.68 min Scan# 807

Delta R.T. -0.00 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

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ClientSampleId :

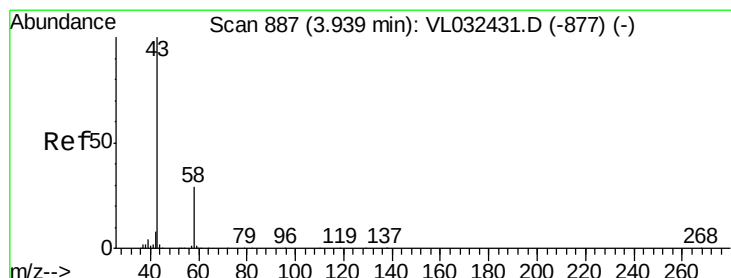
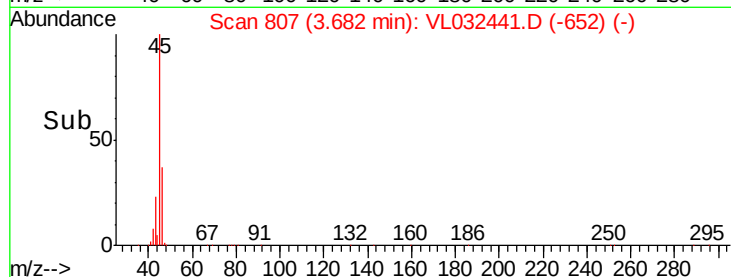
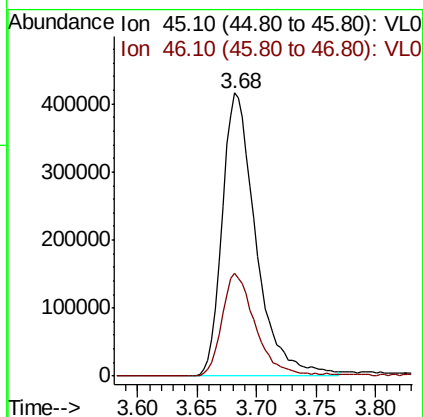
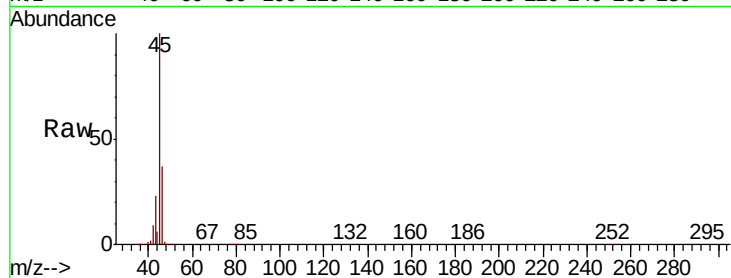
SS-1

Tgt Ion: 45 Resp: 817125

Ion Ratio Lower Upper

45 100

46 36.5 14.2 56.8



#15

Acetone

Concen: 7.008 ppbv

RT: 3.93 min Scan# 885

Delta R.T. -0.01 min

Lab File: VL032441.D

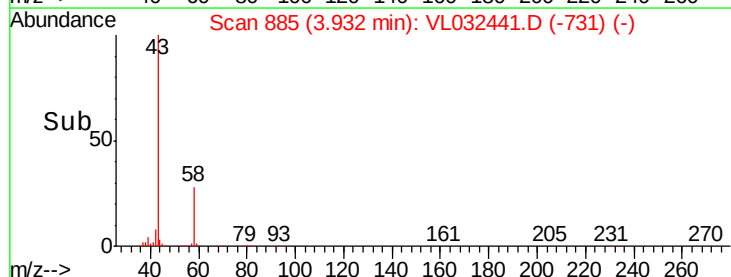
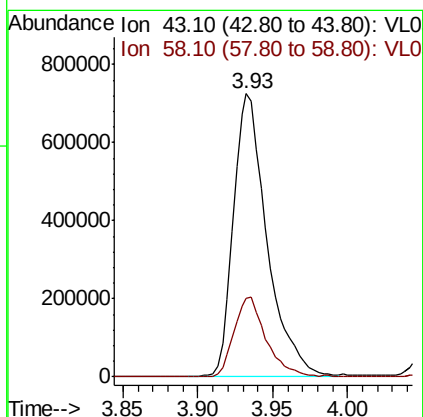
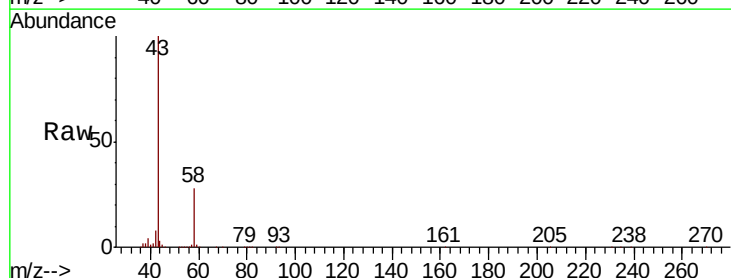
Acq: 31 Aug 2018 15:04

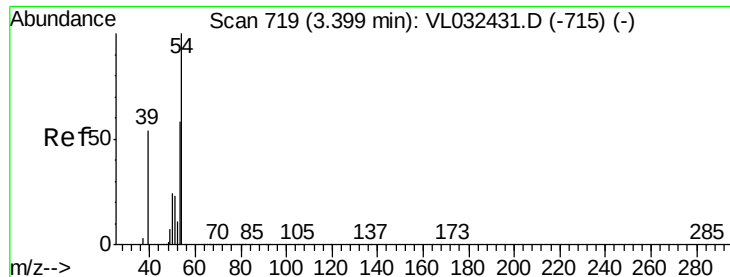
Tgt Ion: 43 Resp: 1133148

Ion Ratio Lower Upper

43 100

58 27.1 22.6 33.8

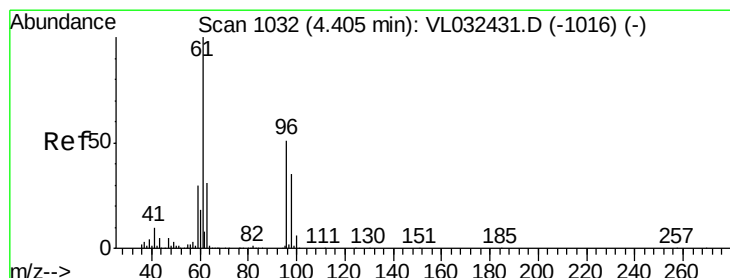
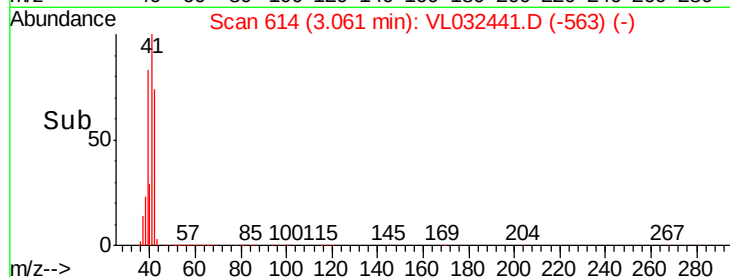
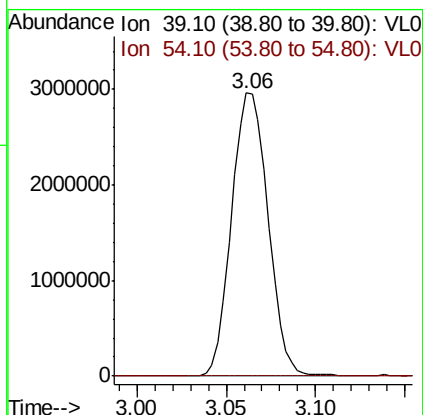
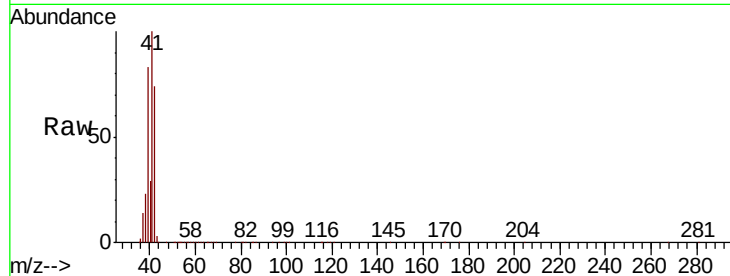




#16
 1,3-Butadiene
 Concen: 55.296 ppbv
 RT: 3.06 min Scan# 614
 Delta R.T. -0.34 min
 Lab File: VL032441.D
 Acq: 31 Aug 2018 15:04

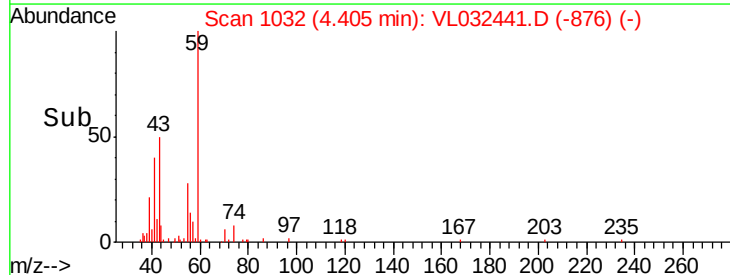
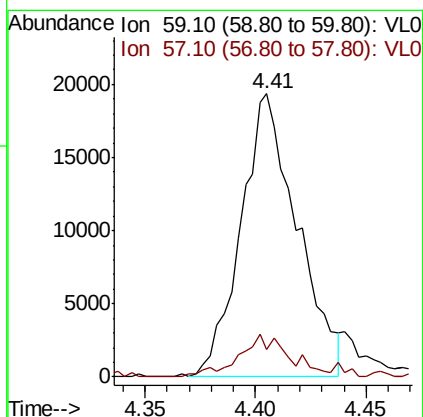
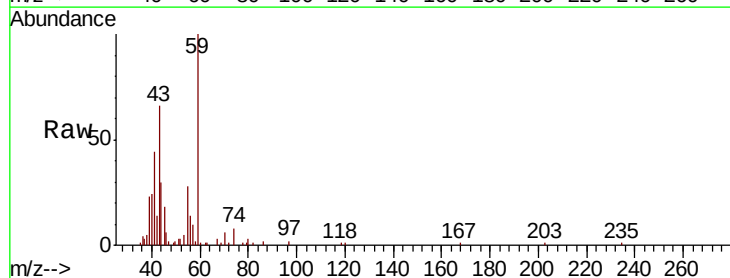
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

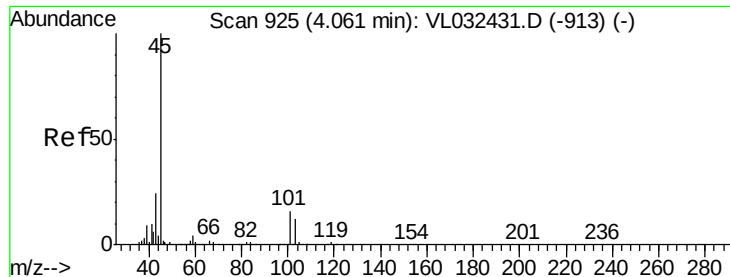
Tgt Ion: 39 Resp: 4207035
 Ion Ratio Lower Upper
 39 100
 54 0.0 80.8 121.2#



#17
 tert-Butyl alcohol
 Concen: 1.377 ppbv
 RT: 4.41 min Scan# 1032
 Delta R.T. 0.00 min
 Lab File: VL032441.D
 Acq: 31 Aug 2018 15:04

Tgt Ion: 59 Resp: 34266
 Ion Ratio Lower Upper
 59 100
 57 14.9 0.0 0.0#

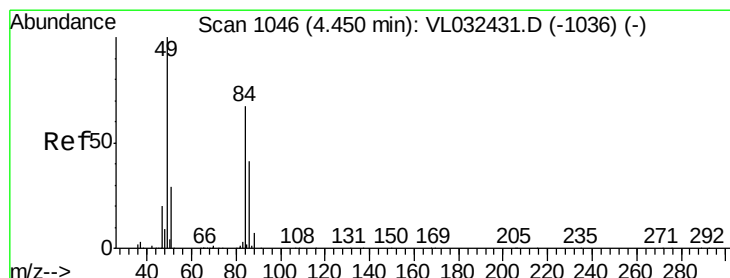
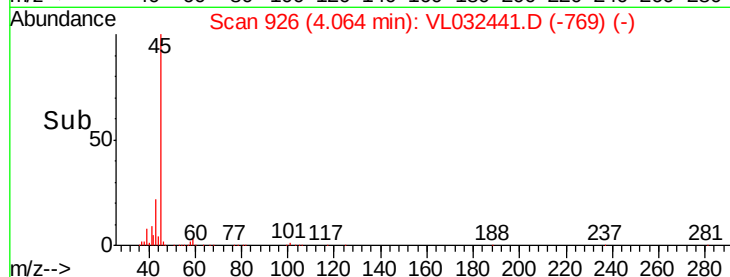
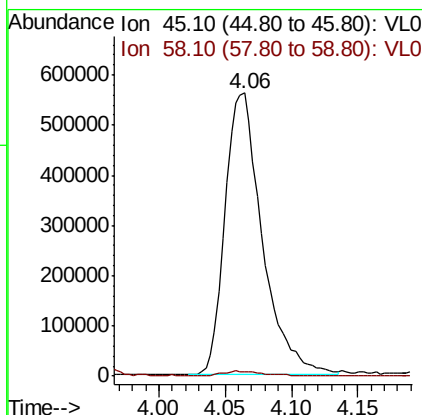
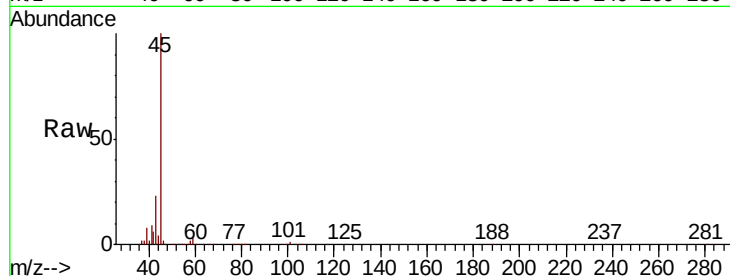




#19
Isopropyl Alcohol
Concen: 10.380 ppbv
RT: 4.06 min Scan# 926
Delta R.T. 0.00 min
Lab File: VL032441.D
Acq: 31 Aug 2018 15:04

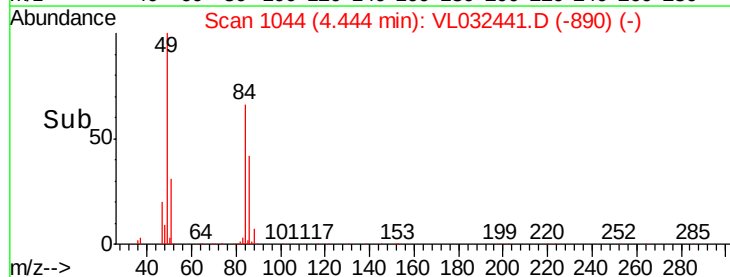
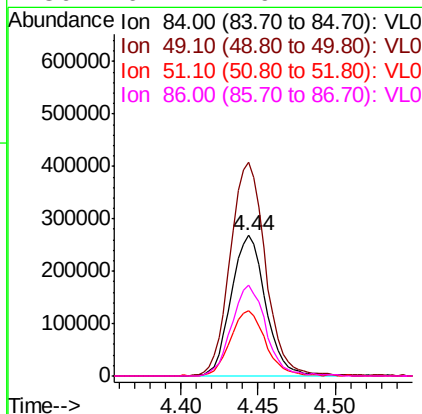
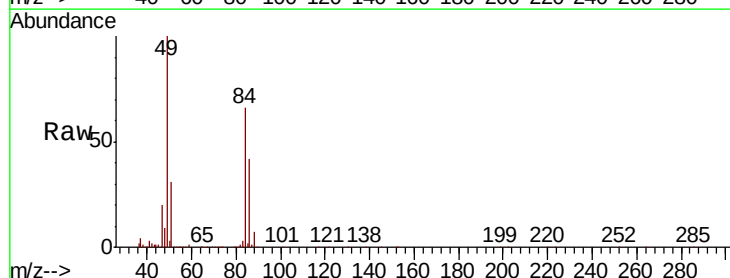
Instrument :
MSVOA_L
ClientSampleId :
SS-1

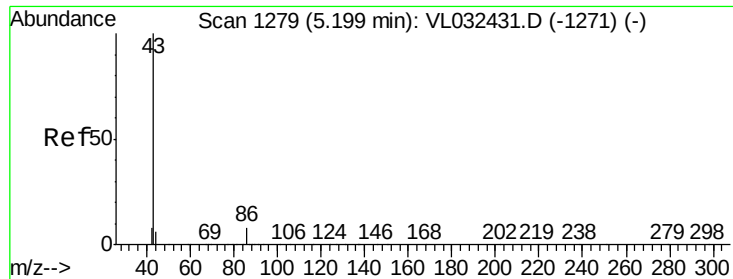
Tgt Ion: 45 Resp: 1100977
Ion Ratio Lower Upper
45 100
58 2.4 2.0 3.0



#20
Methylene Chloride
Concen: 6.733 ppbv
RT: 4.44 min Scan# 1044
Delta R.T. -0.01 min
Lab File: VL032441.D
Acq: 31 Aug 2018 15:04

Tgt Ion: 84 Resp: 415108
Ion Ratio Lower Upper
84 100
49 151.7 119.1 178.7
51 46.7 35.2 52.8
86 64.1 49.4 74.2

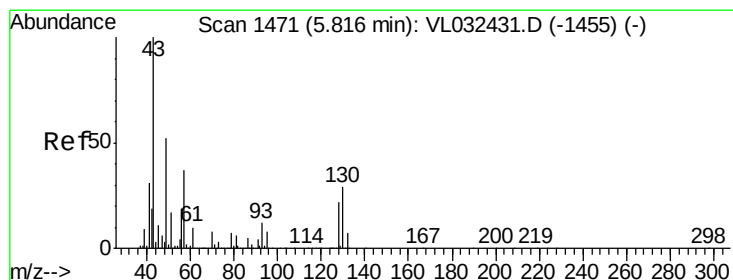
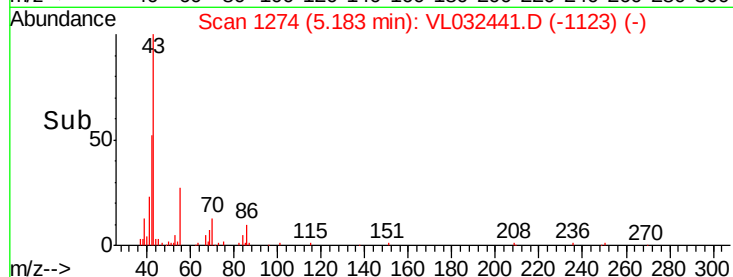
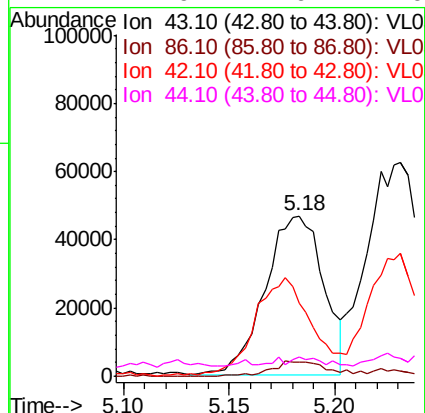
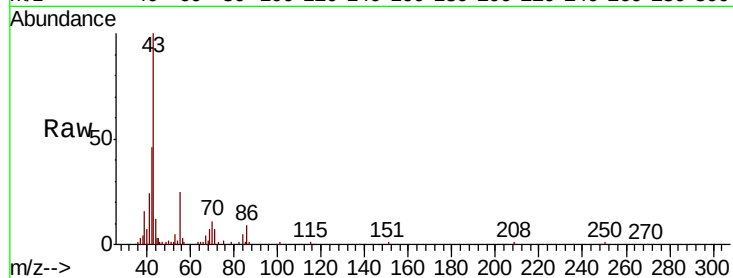




#23
 Vinyl Acetate
 Concen: 0.333 ppbv
 RT: 5.18 min Scan# 1274
 Delta R.T. -0.02 min
 Lab File: VL032441.D
 Acq: 31 Aug 2018 15:04

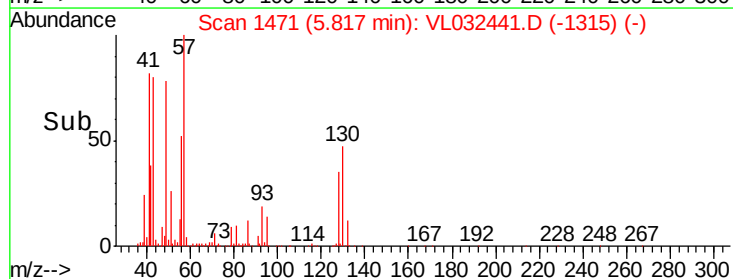
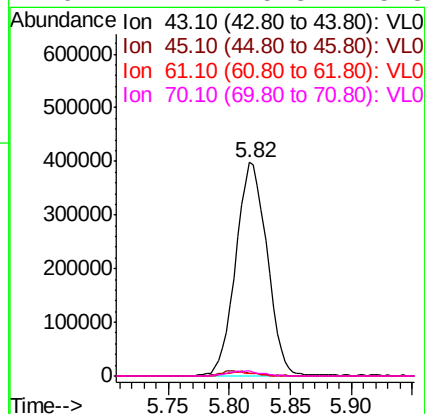
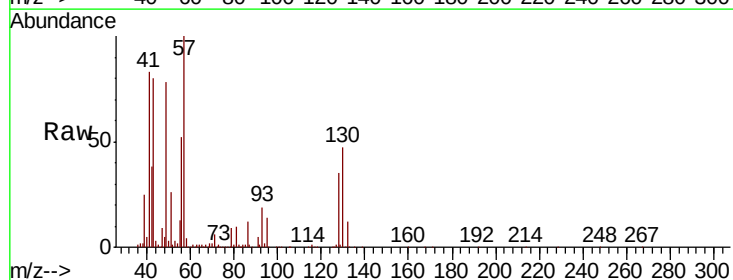
Instrument :
 MSVOA_L
 ClientSampleID :
 SS-1

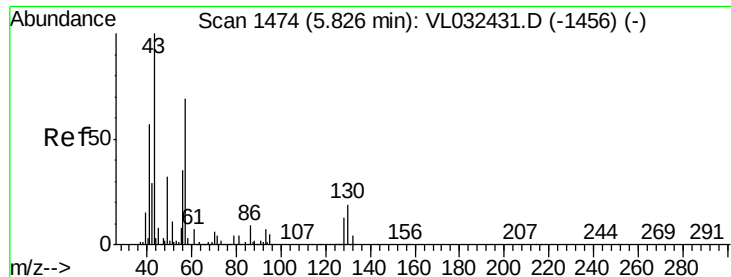
Tgt Ion:	43	Resp:	89360
Ion	Ratio	Lower	Upper
43	100		
86	9.1	5.9	8.9#
42	44.7	6.9	10.3#
44	4.9	4.6	7.0



#25
 Ethyl Acetate
 Concen: 1.858 ppbv
 RT: 5.82 min Scan# 1471
 Delta R.T. 0.00 min
 Lab File: VL032441.D
 Acq: 31 Aug 2018 15:04

Tgt Ion:	43	Resp:	709447
Ion	Ratio	Lower	Upper
43	100		
45	2.7	8.0	12.0#
61	1.9	7.6	11.4#
70	2.7	5.8	8.8#





#26

Hexane

Concen: 5.034 ppbv

RT: 5.82 min Scan# 1472

Delta R.T. -0.01 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

Instrument :

MSVOA_L

ClientSampleId :

SS-1

Tgt Ion: 57 Resp: 860693

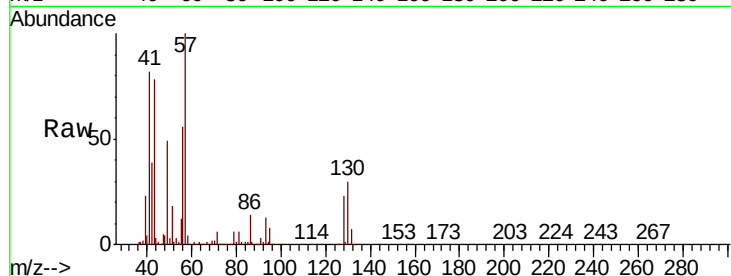
Ion Ratio Lower Upper

57 100

41 84.7 69.0 103.4

43 82.7 172.1 258.1#

56 54.2 42.2 63.2

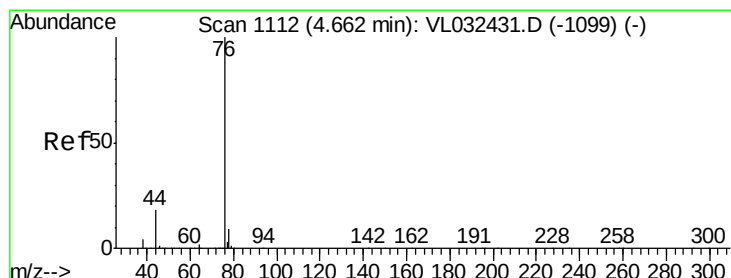
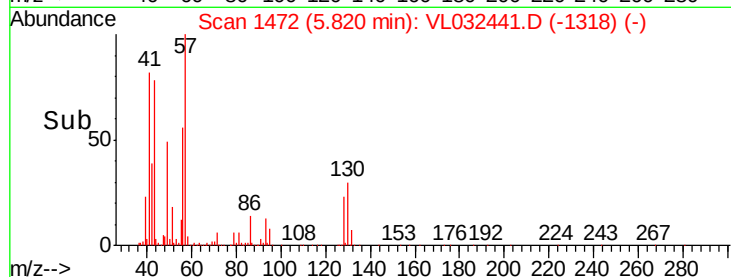
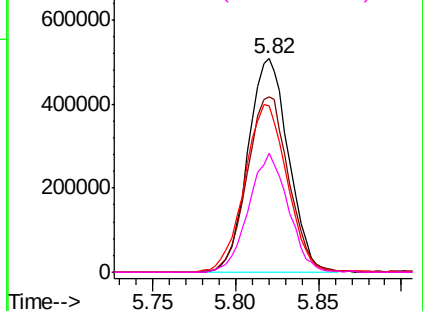


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#27

Carbon Disulfide

Concen: 0.095 ppbv

RT: 4.66 min Scan# 1110

Delta R.T. -0.01 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

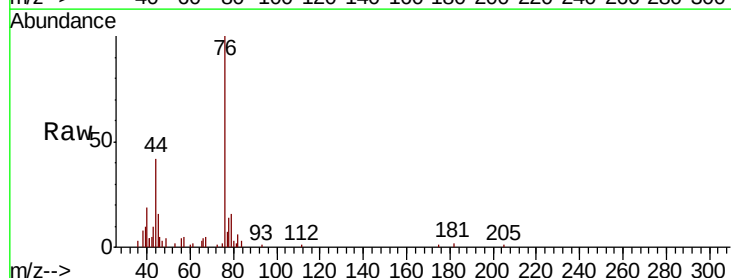
Tgt Ion: 76 Resp: 14957

Ion Ratio Lower Upper

76 100

44 18.1 14.0 21.0

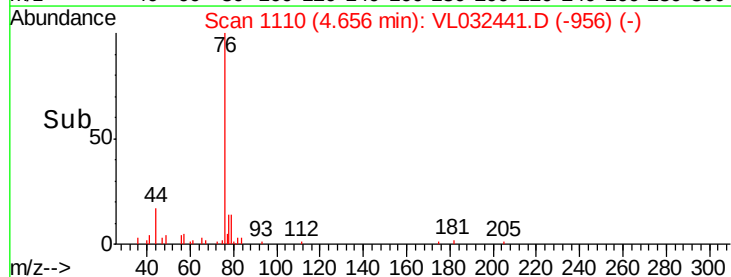
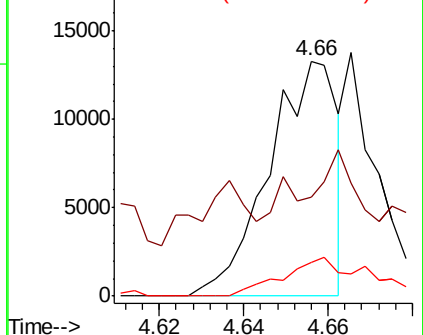
78 0.0 7.5 11.3#

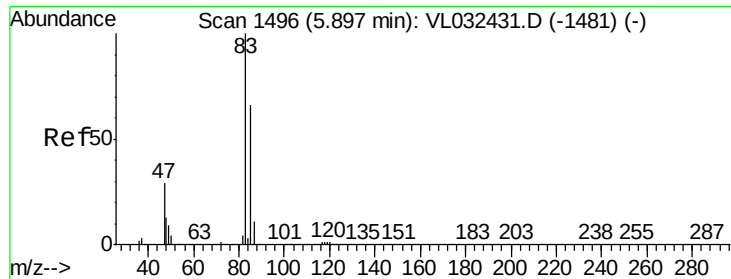


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0

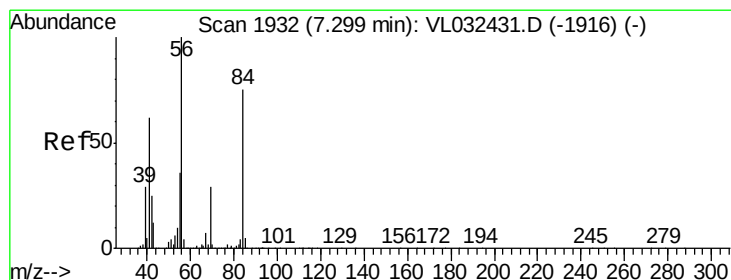
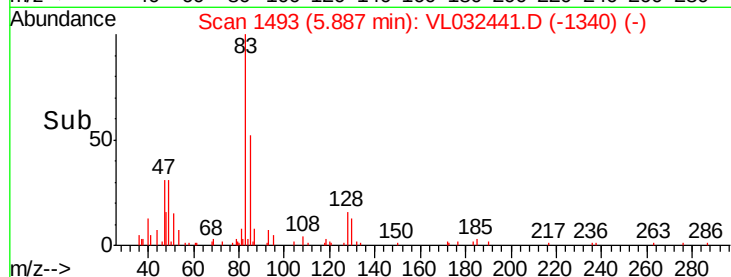
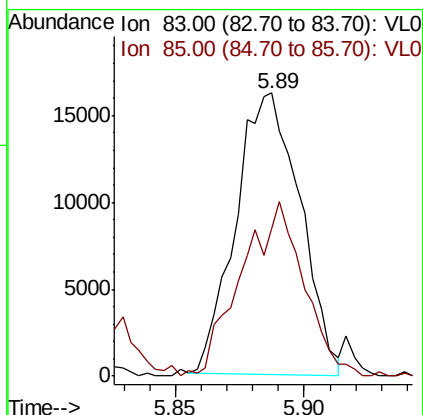
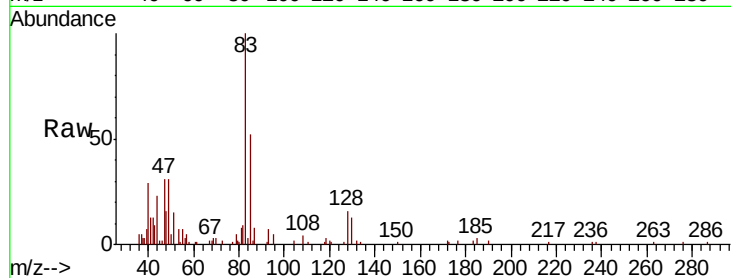




#29
Chloroform
Concen: 0.109 ppbv
RT: 5.89 min Scan# 1493
Delta R.T. -0.01 min
Lab File: VL032441.D
Acq: 31 Aug 2018 15:04

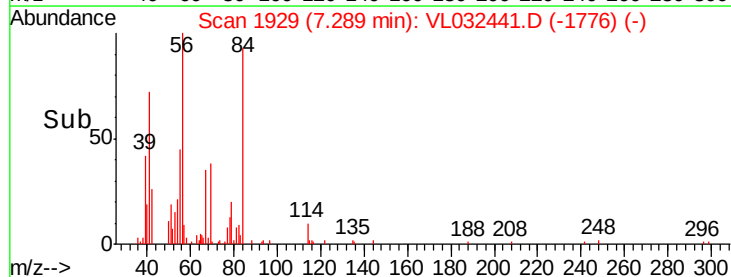
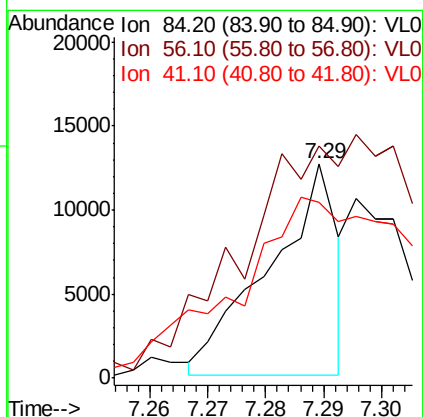
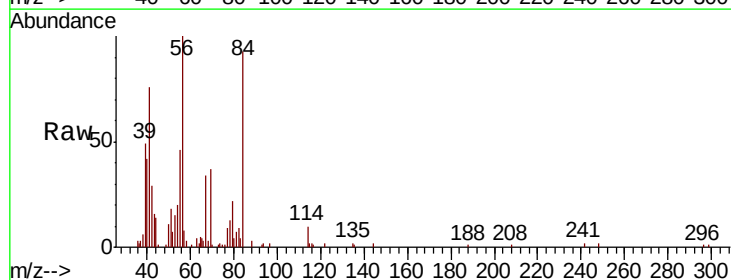
Instrument :
MSVOA_L
ClientSampleId :
SS-1

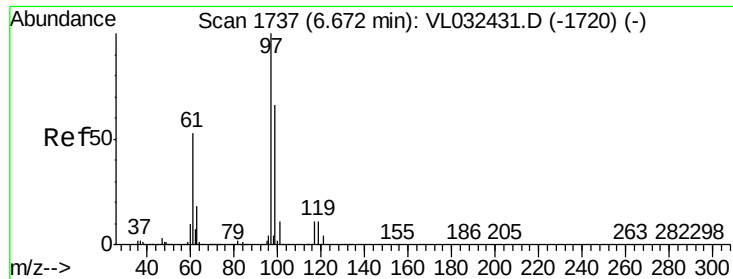
Tgt Ion: 83 Resp: 28285
Ion Ratio Lower Upper
83 100
85 50.8 52.5 78.7#



#30
Cyclohexane
Concen: 0.082 ppbv
RT: 7.29 min Scan# 1929
Delta R.T. -0.01 min
Lab File: VL032441.D
Acq: 31 Aug 2018 15:04

Tgt Ion: 84 Resp: 10257
Ion Ratio Lower Upper
84 100
56 0.0 113.5 170.3#
41 235.1 68.1 102.1#

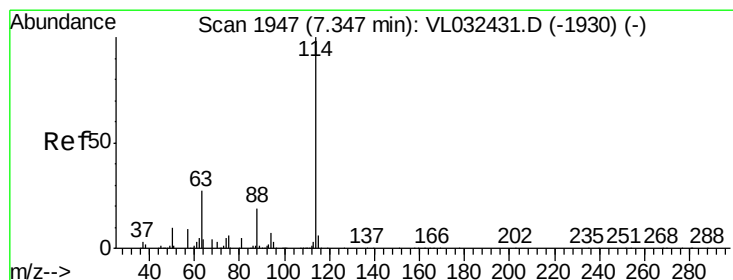
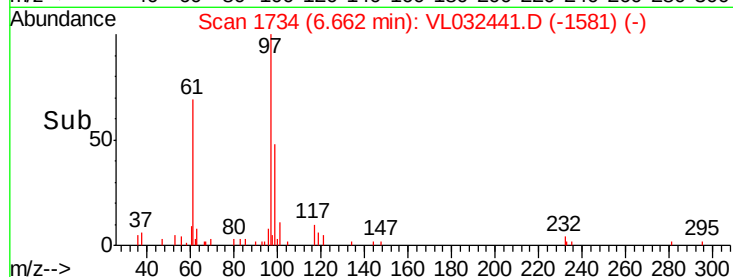
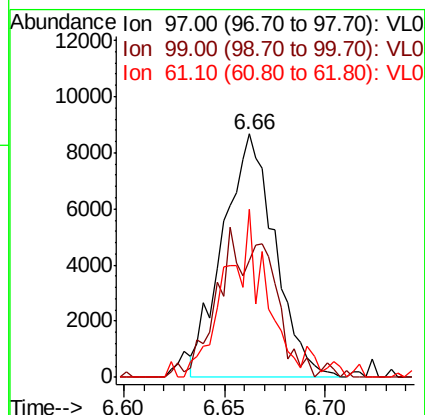
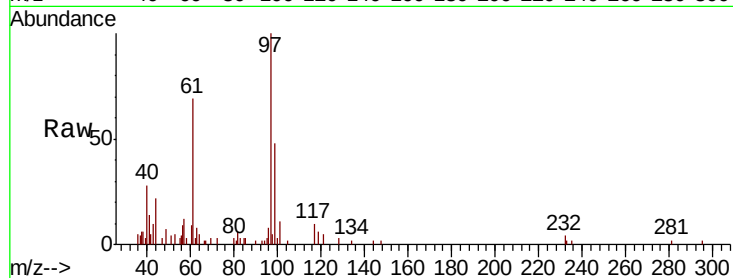




#32
 1,1,1-Trichloroethane
 Concen: 0.064 ppbv
 RT: 6.66 min Scan# 1734
 Delta R.T. -0.01 min
 Lab File: VL032441.D
 Acq: 31 Aug 2018 15:04

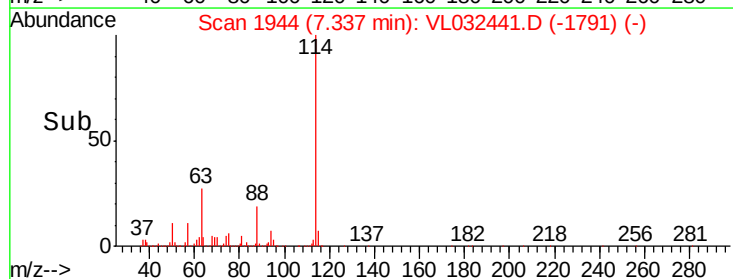
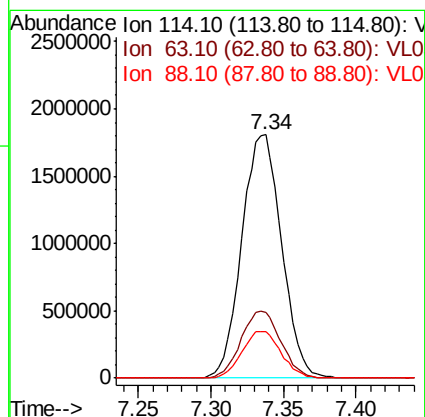
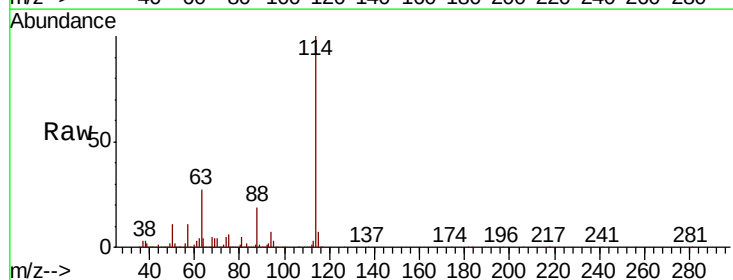
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

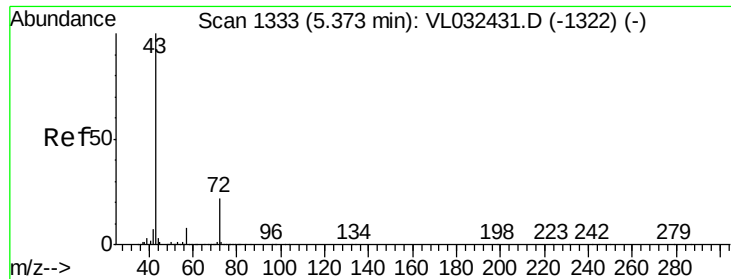
Tgt Ion:	97	Resp:	15587
Ion	Ratio	Lower	Upper
97	100		
99	65.0	52.1	78.1
61	55.7	42.5	63.7



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.34 min Scan# 1944
 Delta R.T. -0.01 min
 Lab File: VL032441.D
 Acq: 31 Aug 2018 15:04

Tgt Ion:	114	Resp:	3455811
Ion	Ratio	Lower	Upper
114	100		
63	27.5	22.2	33.4
88	18.8	15.0	22.4

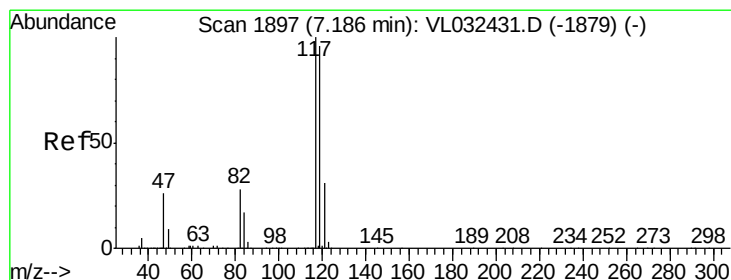
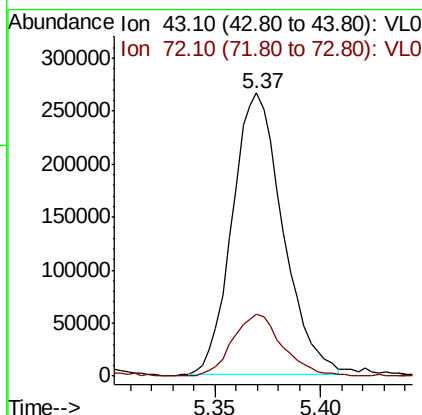
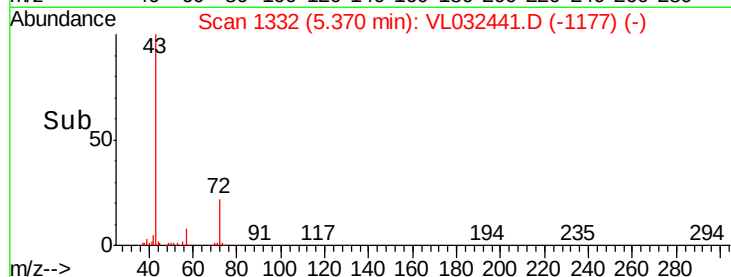
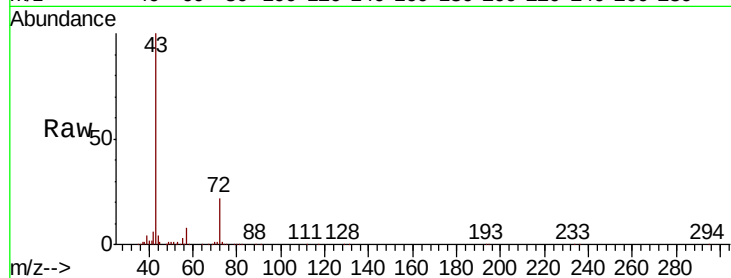




#34
2-Butanone
Concen: 1.924 ppbv
RT: 5.37 min Scan# 1332
Delta R.T. -0.00 min
Lab File: VL032441.D
Acq: 31 Aug 2018 15:04

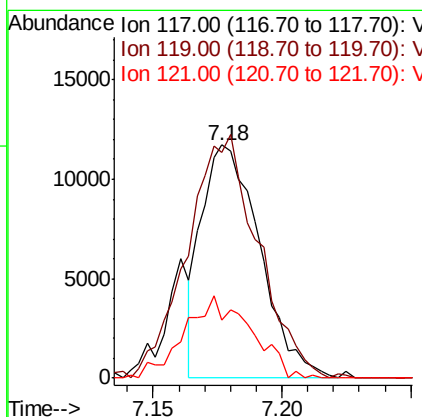
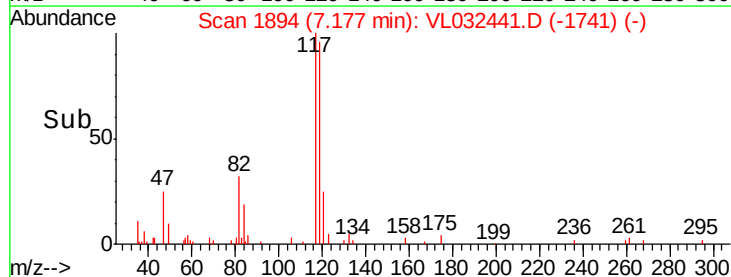
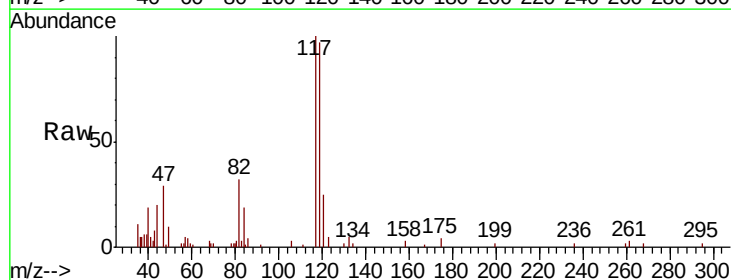
Instrument :
MSVOA_L
ClientSampleId :
SS-1

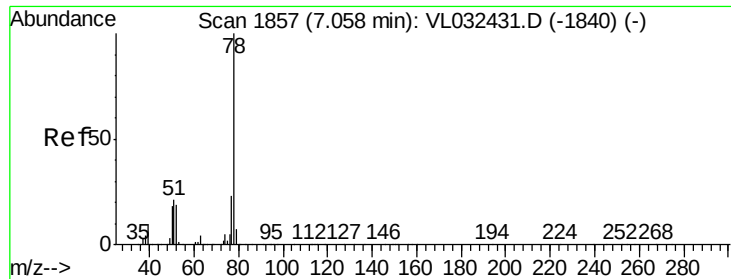
Tgt Ion: 43 Resp: 441577
Ion Ratio Lower Upper
43 100
72 22.0 17.8 26.6



#35
Carbon Tetrachloride
Concen: 0.079 ppbv
RT: 7.18 min Scan# 1894
Delta R.T. -0.01 min
Lab File: VL032441.D
Acq: 31 Aug 2018 15:04

Tgt Ion: 117 Resp: 18299
Ion Ratio Lower Upper
117 100
119 95.0 76.6 115.0
121 24.8 24.6 36.8





#36

Benzene

Concen: 1.806 ppbv

RT: 7.04 min Scan# 1853

Delta R.T. -0.01 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

Instrument :

MSVOA_L

ClientSampleId :

SS-1

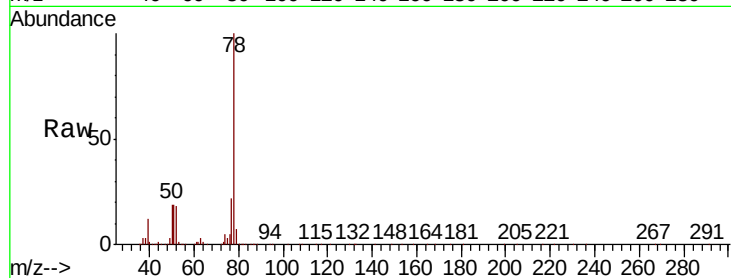
Tgt Ion: 78 Resp: 531217

Ion Ratio Lower Upper

78 100

77 22.1 18.4 27.6

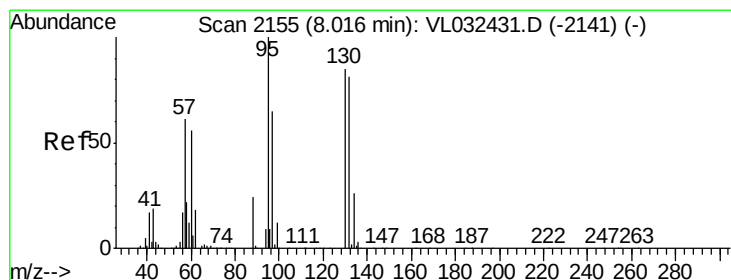
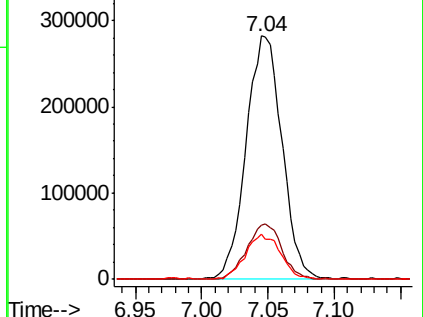
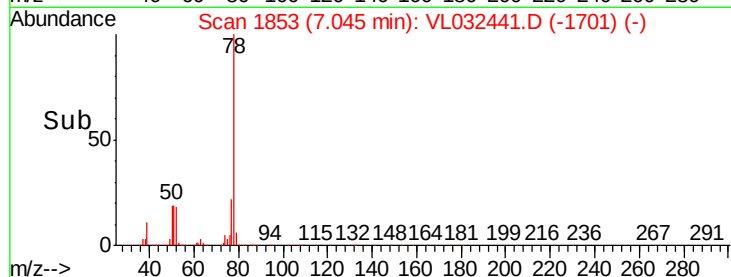
50 18.5 14.4 21.6



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#38

Trichloroethene

Concen: 0.316 ppbv

RT: 8.01 min Scan# 2152

Delta R.T. -0.01 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

Tgt Ion: 130 Resp: 35287

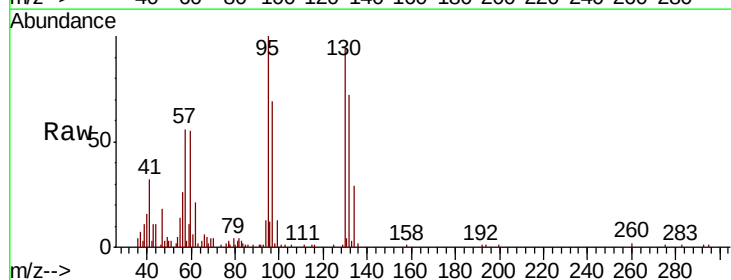
Ion Ratio Lower Upper

130 100

95 106.8 94.2 141.4

132 74.8 76.2 114.4#

97 70.7 60.8 91.2

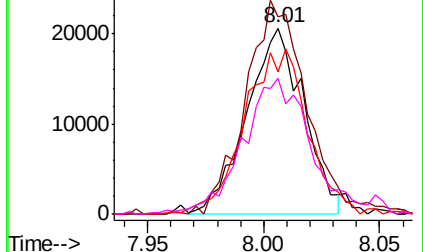
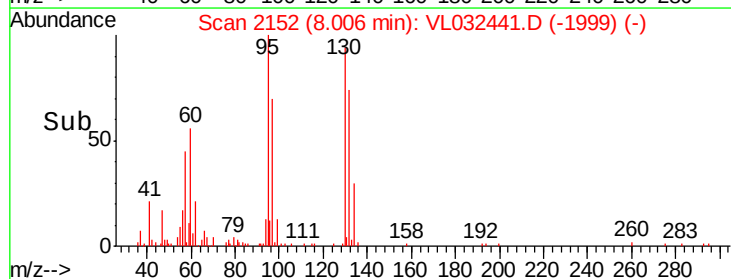


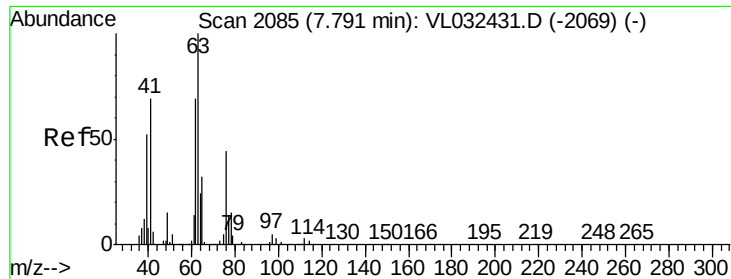
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 7.489 ppbv

RT: 7.33 min Scan# 1943

Delta R.T. -0.46 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

Instrument :

MSVOA_L

ClientSampleId :

SS-1

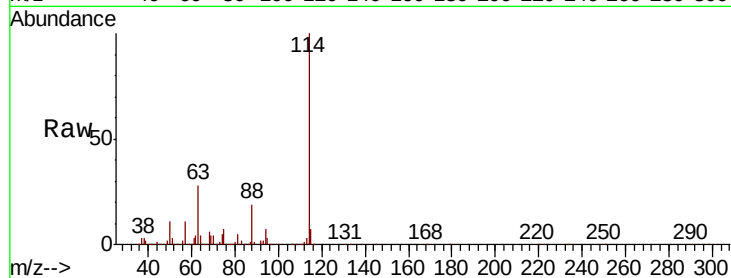
Tgt Ion: 63 Resp: 942295

Ion Ratio Lower Upper

63 100

41 0.0 55.4 83.0#

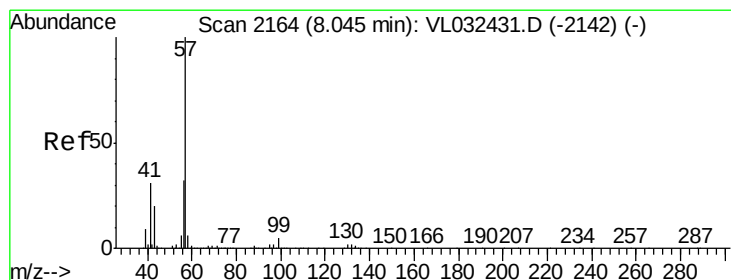
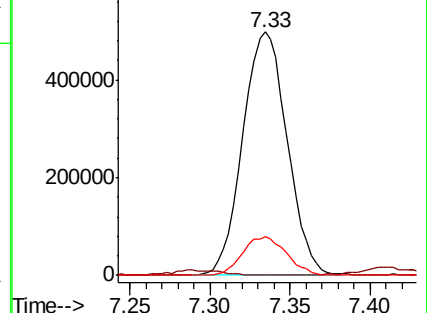
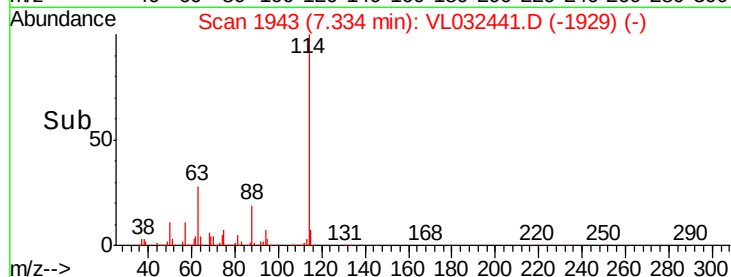
62 15.7 55.4 83.0#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.262 ppbv

RT: 8.04 min Scan# 2161

Delta R.T. -0.01 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

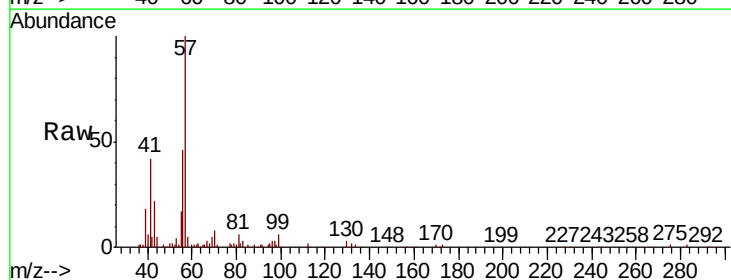
Tgt Ion: 57 Resp: 148700

Ion Ratio Lower Upper

57 100

41 44.0 24.4 36.6#

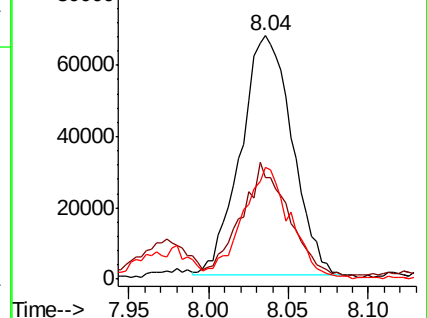
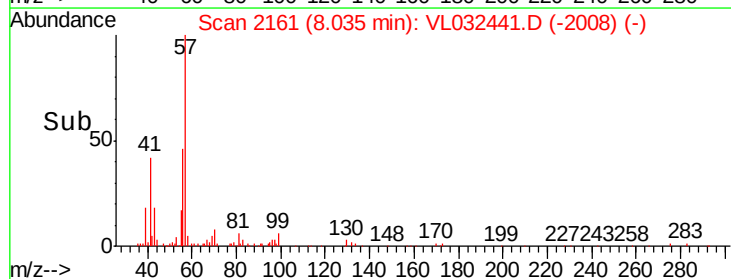
56 42.8 25.7 38.5#

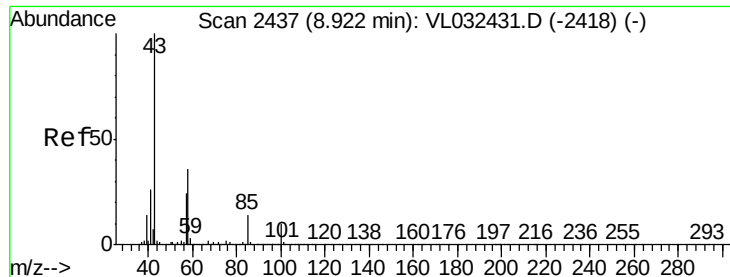


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

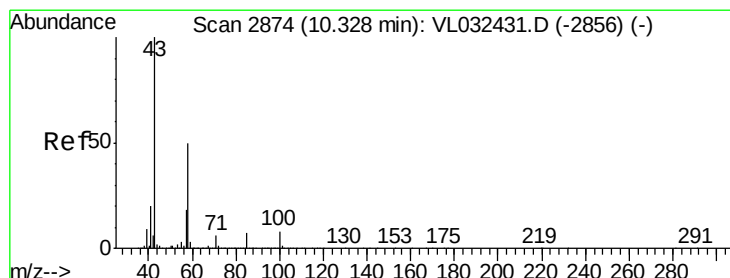
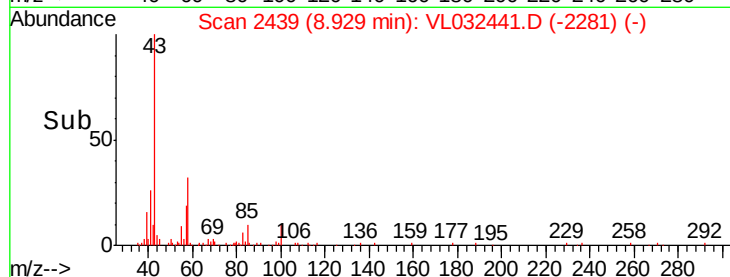
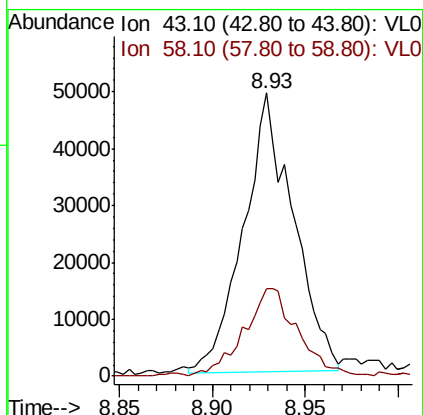
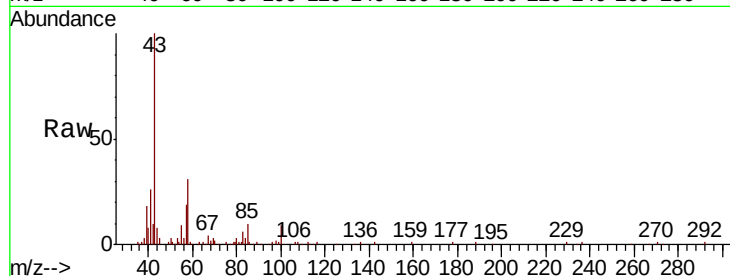




#50
 4-Methyl-2-Pentanone
 Concen: 0.263 ppbv
 RT: 8.93 min Scan# 2439
 Delta R.T. 0.01 min
 Lab File: VL032441.D
 Acq: 31 Aug 2018 15:04

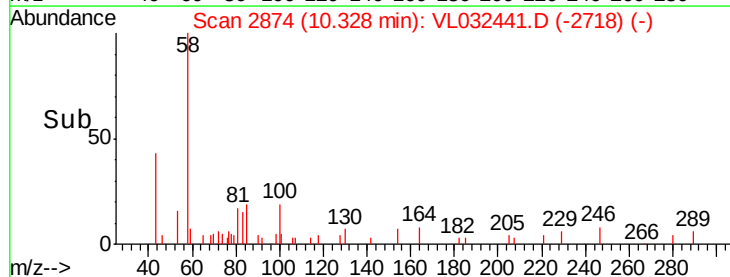
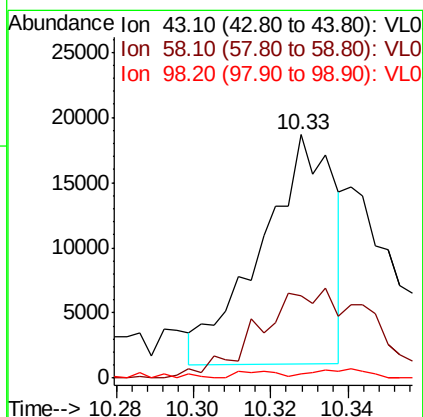
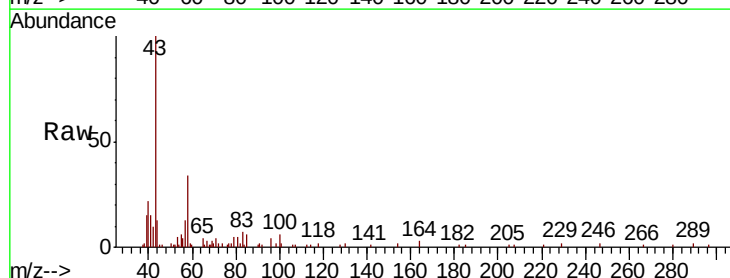
Instrument :
 MSVOA_L
 ClientSampled :
 SS-1

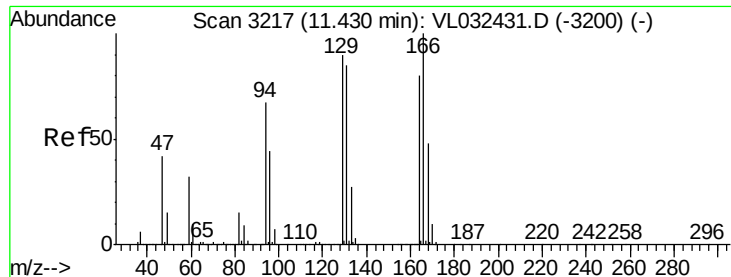
Tgt Ion: 43 Resp: 90948
 Ion Ratio Lower Upper
 43 100
 58 35.0 29.0 43.4



#51
 2-Hexanone
 Concen: 0.103 ppbv
 RT: 10.33 min Scan# 2874
 Delta R.T. 0.00 min
 Lab File: VL032441.D
 Acq: 31 Aug 2018 15:04

Tgt Ion: 43 Resp: 23017
 Ion Ratio Lower Upper
 43 100
 58 0.0 39.2 58.8#
 98 0.0 0.4 0.6#





#52

Tetrachloroethene

Concen: 0.711 ppbv

RT: 11.42 min Scan# 3215

Delta R.T. -0.01 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

Instrument :

MSVOA_L

ClientSampleId :

SS-1

Tgt Ion:164 Resp: 64802

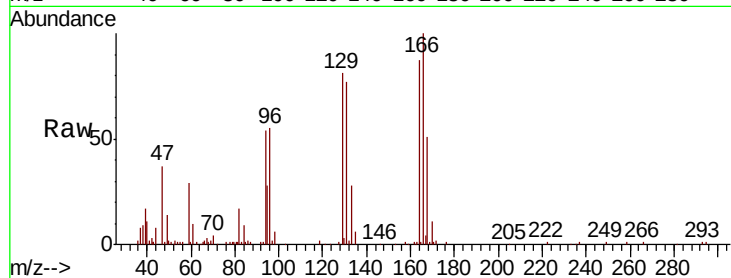
Ion Ratio Lower Upper

164 100

166 113.2 100.6 150.8

129 91.1 89.9 134.9

131 90.2 85.9 128.9



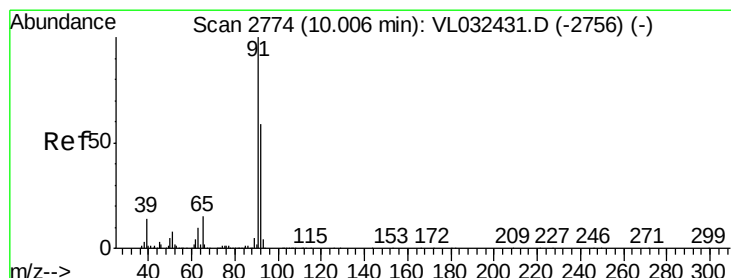
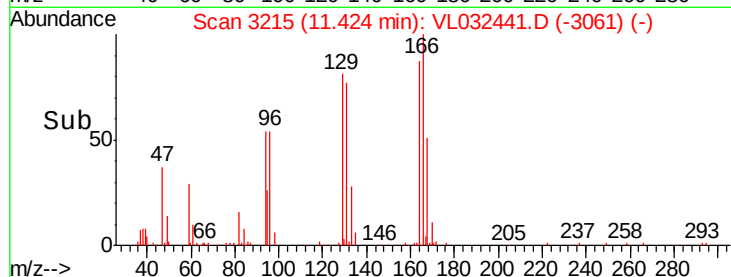
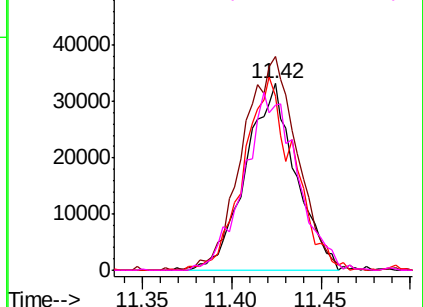
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 2.151 ppbv

RT: 9.99 min Scan# 2770

Delta R.T. -0.01 min

Lab File: VL032441.D

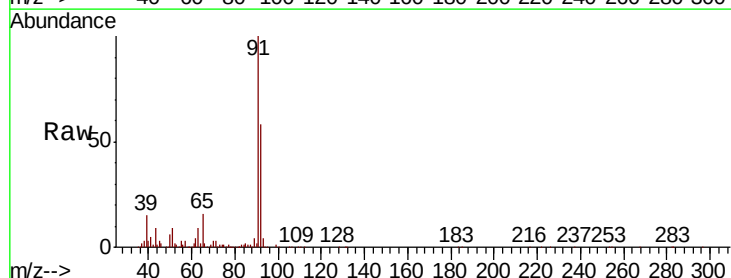
Acq: 31 Aug 2018 15:04

Tgt Ion: 91 Resp: 661081

Ion Ratio Lower Upper

91 100

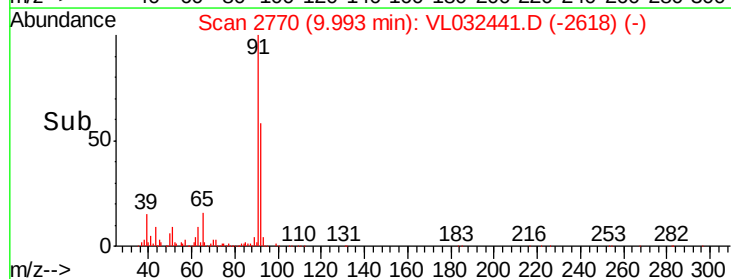
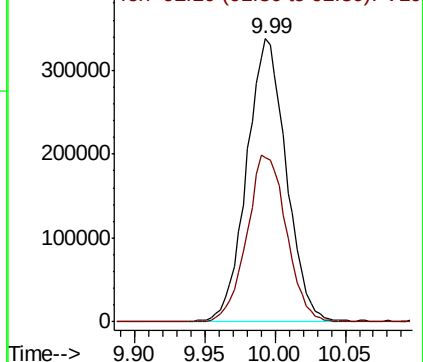
92 59.5 48.1 72.1

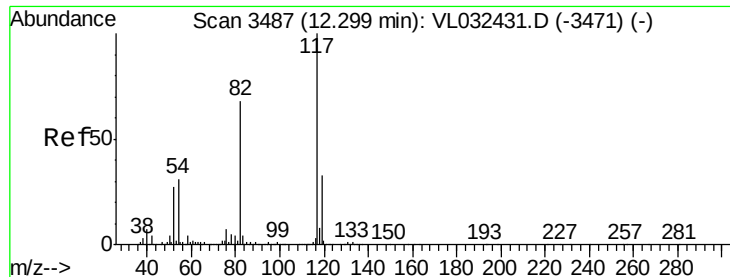


Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

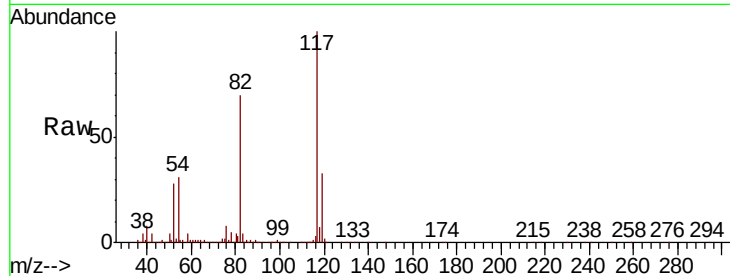




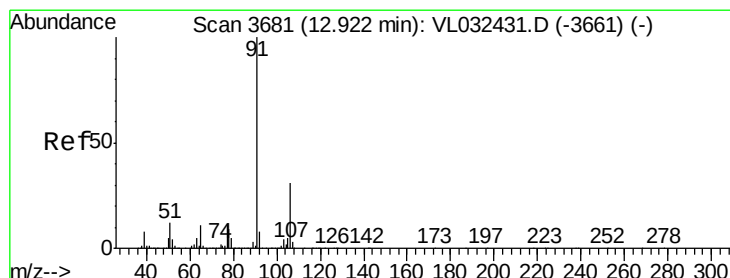
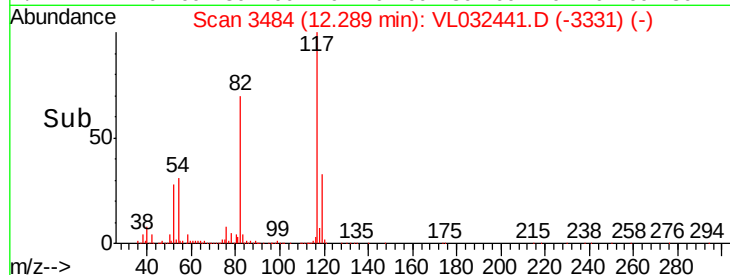
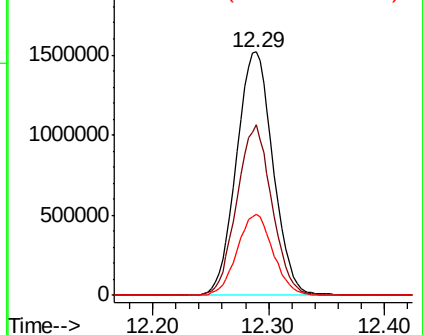
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.29 min Scan# 3484
Delta R.T. -0.01 min
Lab File: VL032441.D
Acq: 31 Aug 2018 15:04

Instrument :
MSVOA_L
ClientSampleId :
SS-1

Tgt Ion: 117 Resp: 3336015
Ion Ratio Lower Upper
117 100
82 67.8 53.0 79.6
119 32.7 45.9 68.9#

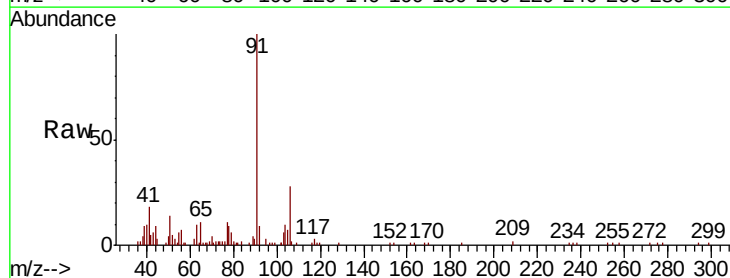


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

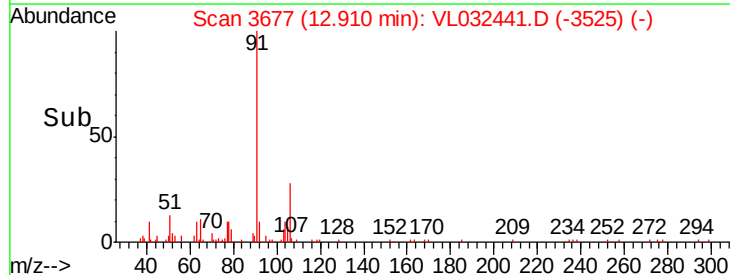
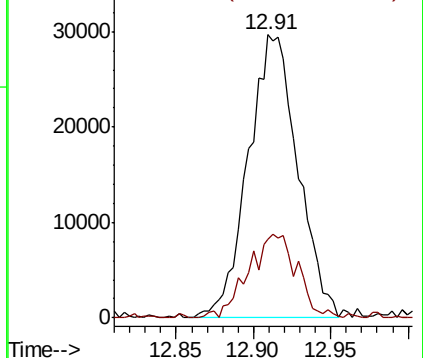


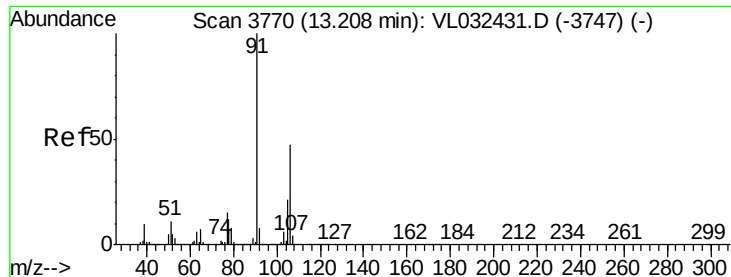
#58
Ethyl Benzene
Concen: 0.166 ppbv
RT: 12.91 min Scan# 3677
Delta R.T. -0.01 min
Lab File: VL032441.D
Acq: 31 Aug 2018 15:04

Tgt Ion: 91 Resp: 66332
Ion Ratio Lower Upper
91 100
106 27.7 24.8 37.2



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V

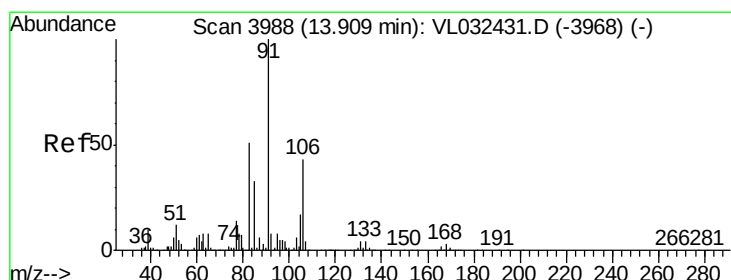
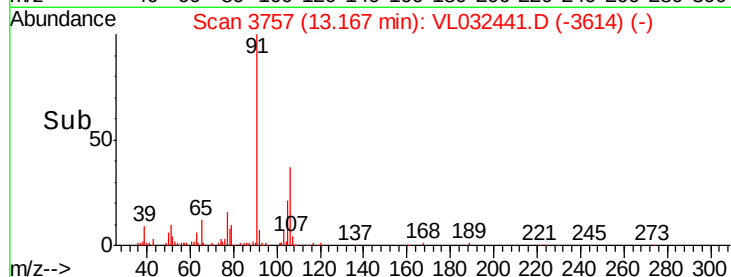
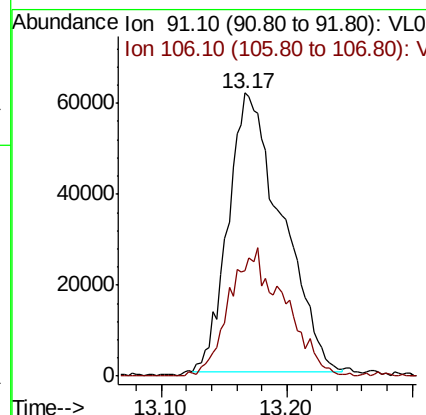
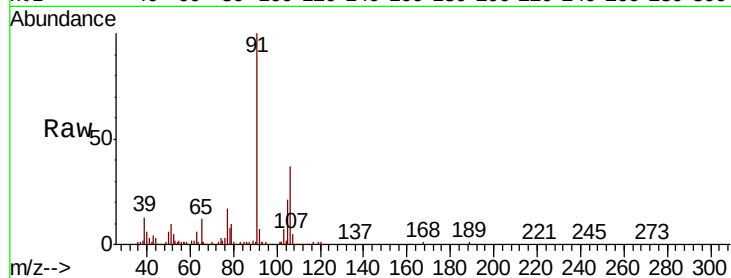




#59
m/p-Xylene
Concen: 0.515 ppbv
RT: 13.17 min Scan# 3757
Delta R.T. -0.04 min
Lab File: VL032441.D
Acq: 31 Aug 2018 15:04

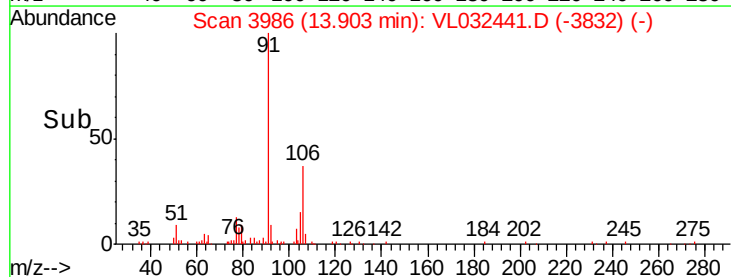
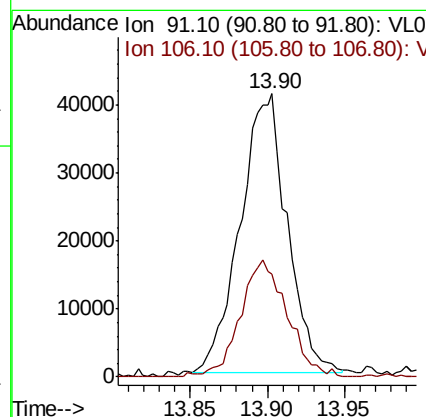
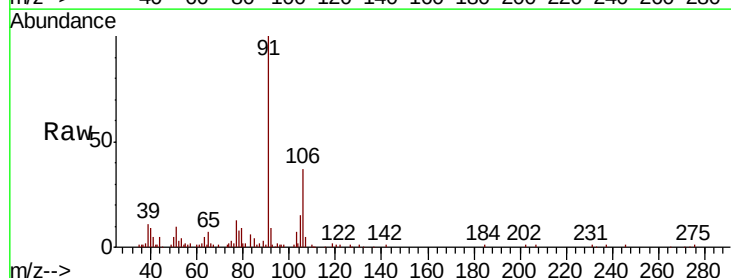
Instrument :
MSVOA_L
ClientSampleId :
SS-1

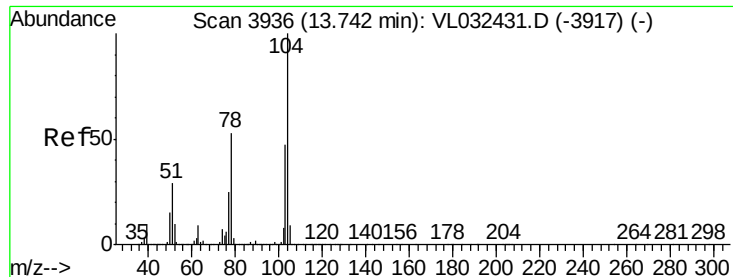
Tgt Ion: 91 Resp: 183236
Ion Ratio Lower Upper
91 100
106 46.6 36.6 55.0



#60
o-Xylene
Concen: 0.248 ppbv
RT: 13.90 min Scan# 3986
Delta R.T. -0.01 min
Lab File: VL032441.D
Acq: 31 Aug 2018 15:04

Tgt Ion: 91 Resp: 86714
Ion Ratio Lower Upper
91 100
106 41.8 21.9 65.7





#61

Styrene

Concen: 0.279 ppbv

RT: 13.73 min Scan# 3933

Delta R.T. -0.01 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

Instrument :

MSVOA_L

ClientSampleId :

SS-1

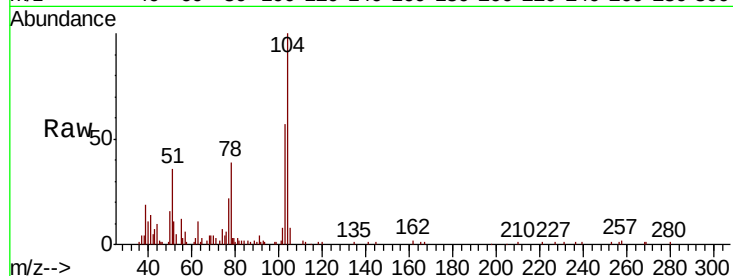
Tgt Ion:104 Resp: 63123

Ion Ratio Lower Upper

104 100

78 56.5 41.8 62.8

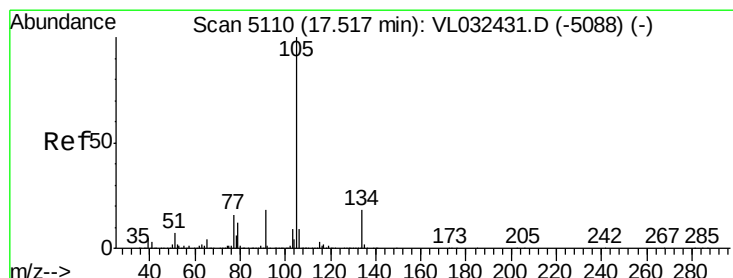
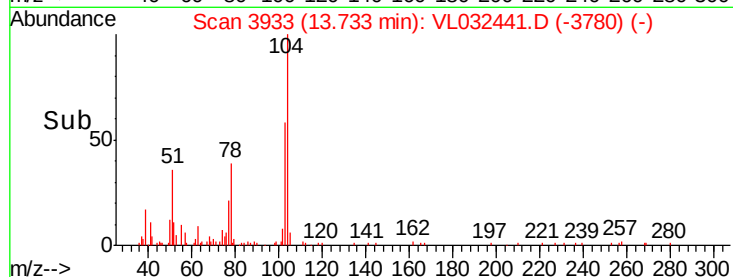
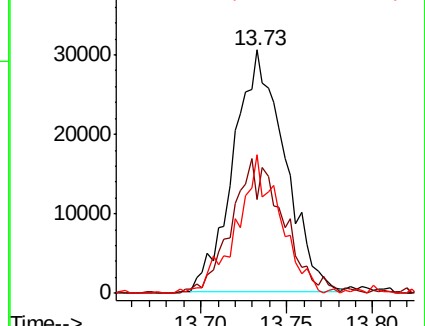
103 48.8 38.0 57.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#67

sec-Butylbenzene

Concen: 0.032 ppbv

RT: 17.51 min Scan# 5107

Delta R.T. -0.01 min

Lab File: VL032441.D

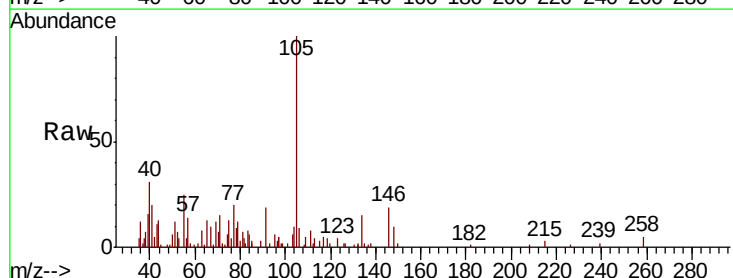
Acq: 31 Aug 2018 15:04

Tgt Ion:105 Resp: 20386

Ion Ratio Lower Upper

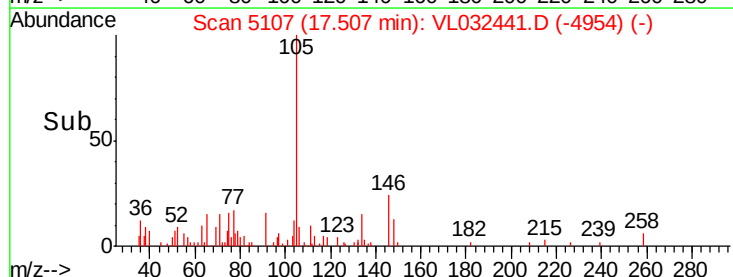
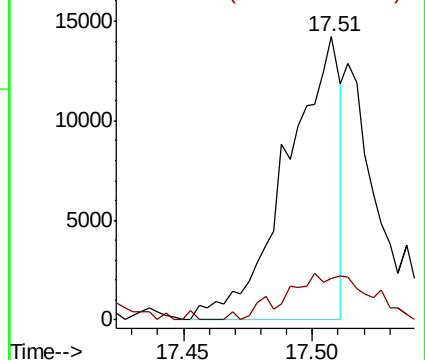
105 100

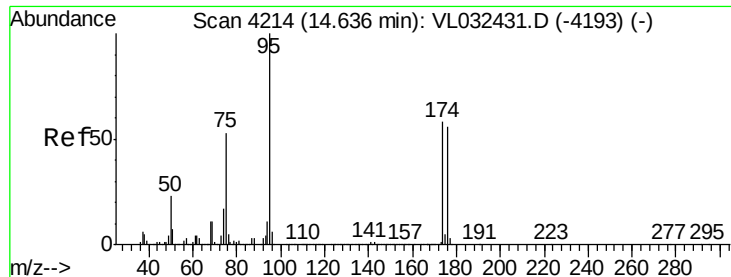
134 25.8 14.4 21.6#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

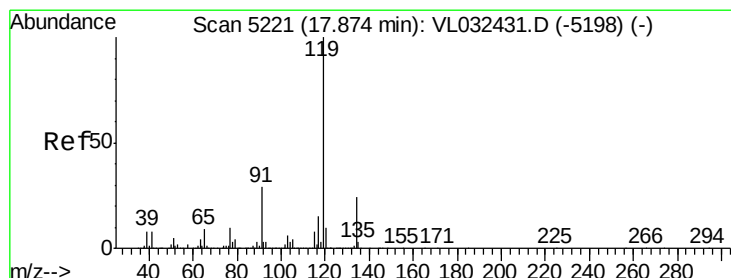
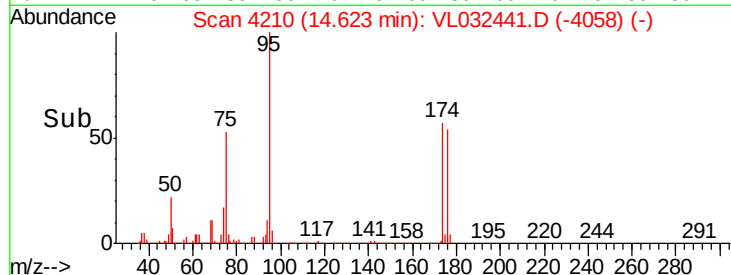
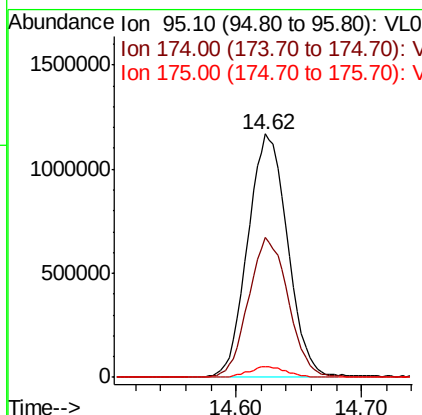
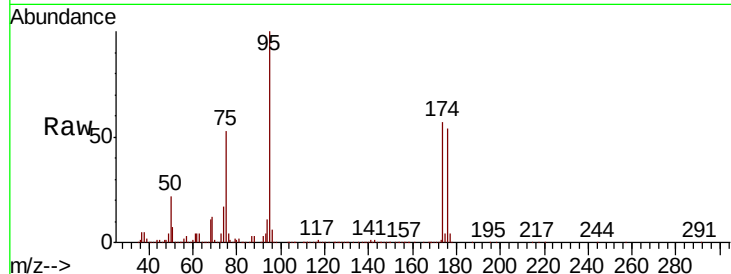




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.424 ppbv
 RT: 14.62 min Scan# 4210
 Delta R.T. -0.01 min
 Lab File: VL032441.D
 Acq: 31 Aug 2018 15:04

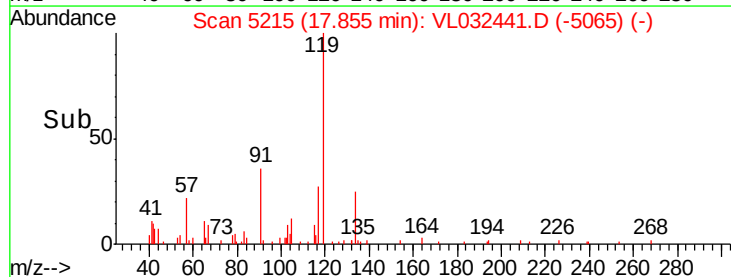
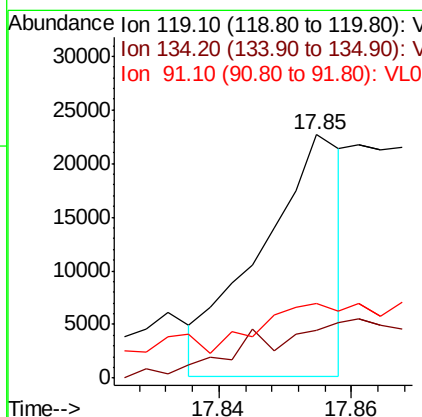
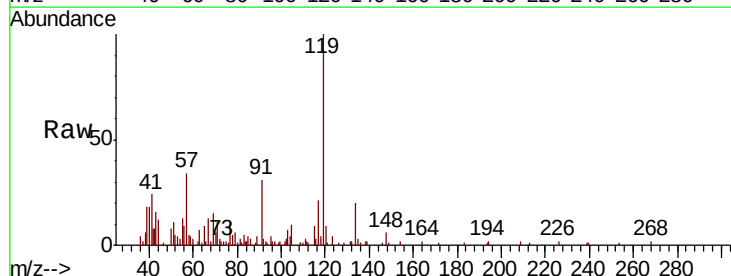
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

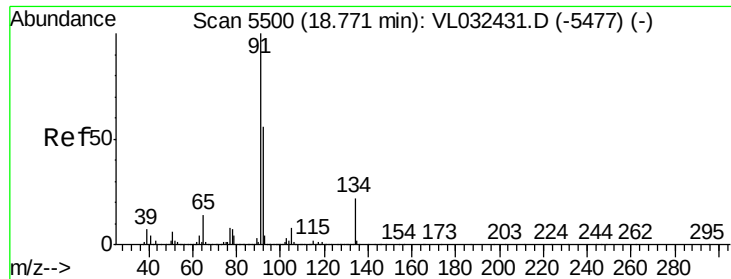
Tgt Ion: 95 Resp: 2581773
 Ion Ratio Lower Upper
 95 100
 174 57.7 46.3 69.5
 175 4.3 3.4 5.0



#69
 p-Isopropyltoluene
 Concen: 0.039 ppbv
 RT: 17.85 min Scan# 5215
 Delta R.T. -0.02 min
 Lab File: VL032441.D
 Acq: 31 Aug 2018 15:04

Tgt Ion: 119 Resp: 19437
 Ion Ratio Lower Upper
 119 100
 134 0.0 20.4 30.6#
 91 0.0 23.4 35.2#





#70

n-Butylbenzene

Concen: 0.071 ppbv

RT: 18.77 min Scan# 5499

Delta R.T. -0.00 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

Instrument :

MSVOA_L

ClientSampleId :

SS-1

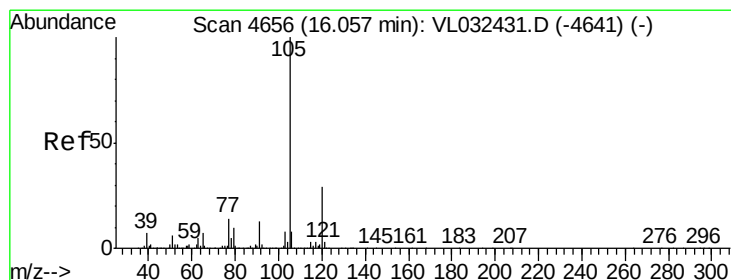
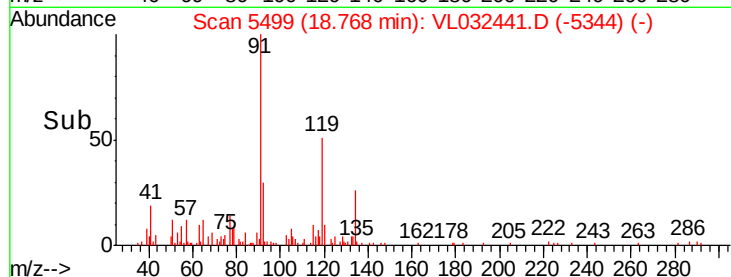
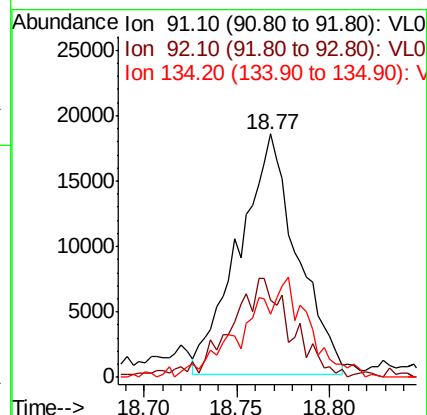
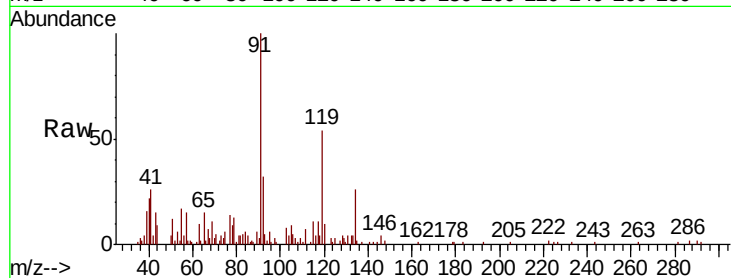
Tgt Ion: 91 Resp: 39974

Ion Ratio Lower Upper

91 100

92 45.2 43.8 65.8

134 46.5 17.4 26.0#



#72

4-Ethyltoluene

Concen: 0.068 ppbv

RT: 16.05 min Scan# 4654

Delta R.T. -0.01 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

Tgt Ion: 105 Resp: 25921

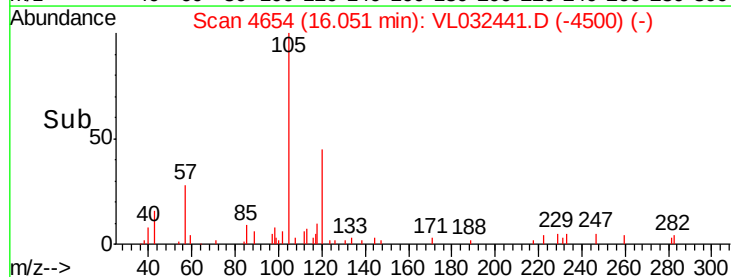
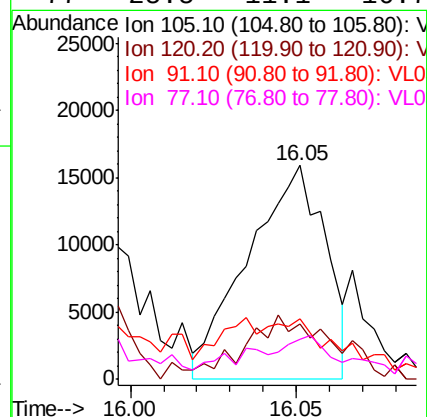
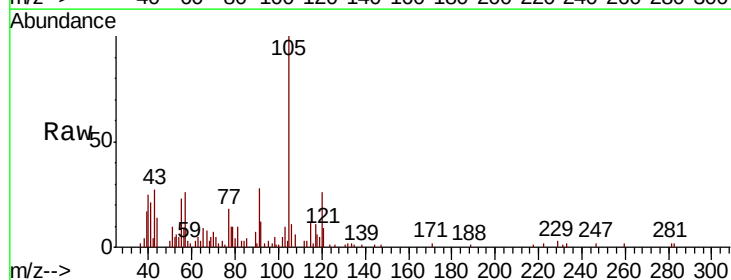
Ion Ratio Lower Upper

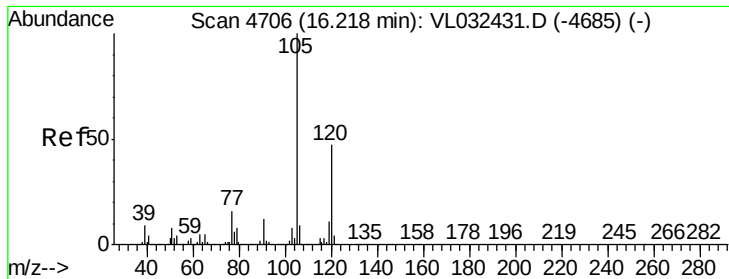
105 100

120 35.9 23.5 35.3#

91 41.4 10.2 15.2#

77 25.5 11.1 16.7#





#73

1,3,5-Trimethylbenzene

Concen: 0.081 ppbv

RT: 16.20 min Scan# 4701

Delta R.T. -0.02 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

Instrument :

MSVOA_L

ClientSampled :

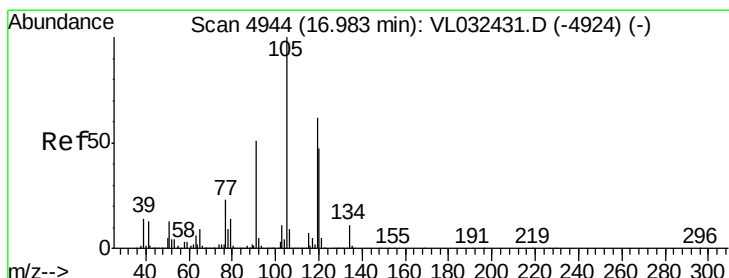
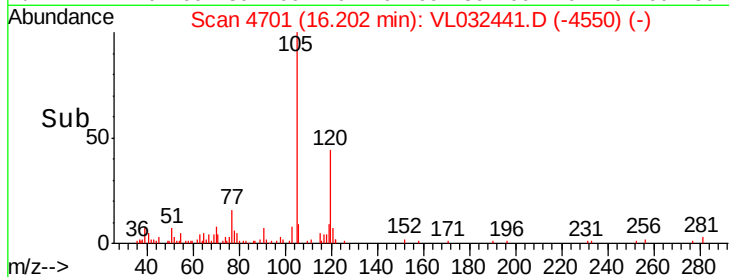
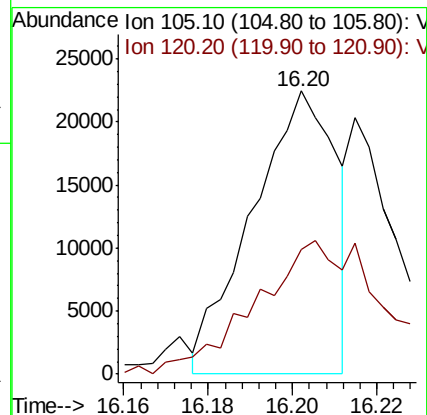
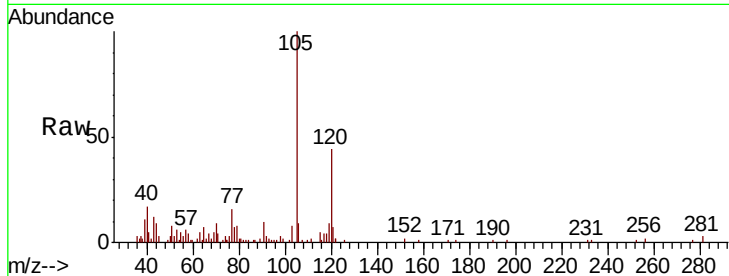
SS-1

Tgt Ion:105 Resp: 31014

Ion Ratio Lower Upper

105 100

120 41.2 37.9 56.9



#74

1,2,4-Trimethylbenzene

Concen: 0.302 ppbv

RT: 16.97 min Scan# 4941

Delta R.T. -0.01 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

Tgt Ion:105 Resp: 126130

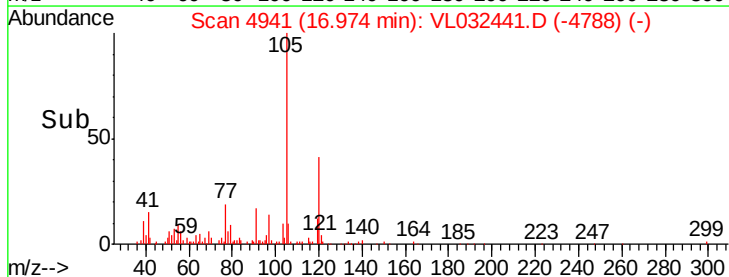
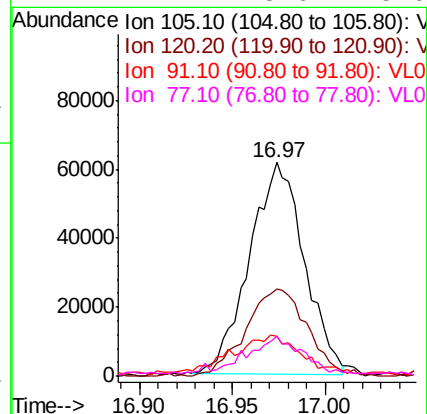
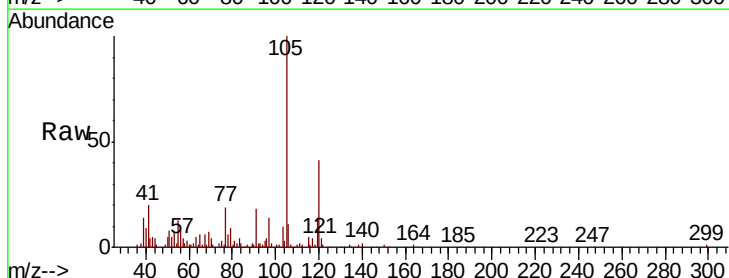
Ion Ratio Lower Upper

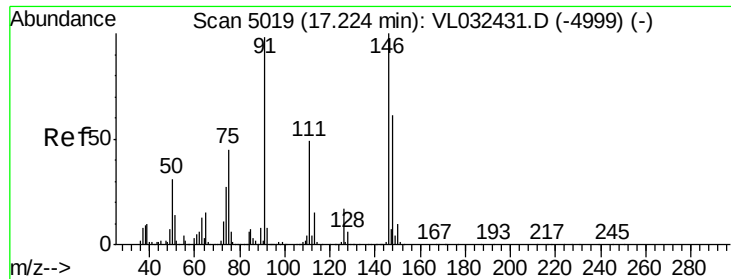
105 100

120 42.0 37.8 56.8

91 16.6 41.4 62.0#

77 17.4 18.6 28.0#





#75

1,3-Dichlorobenzene

Concen: 26.679 ppbv

RT: 17.36 min Scan# 5061

Delta R.T. 0.14 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

Instrument :

MSVOA_L

ClientSampleId :

SS-1

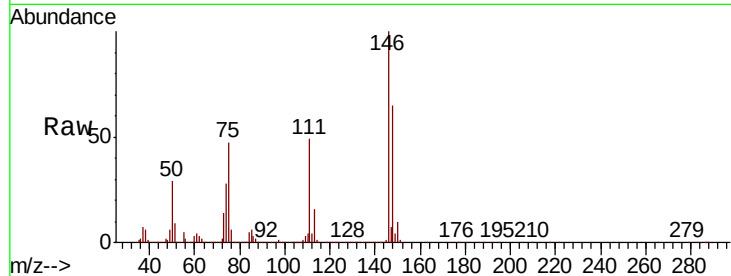
Tgt Ion:146 Resp: 6618105

Ion Ratio Lower Upper

146 100

111 47.9 24.5 73.5

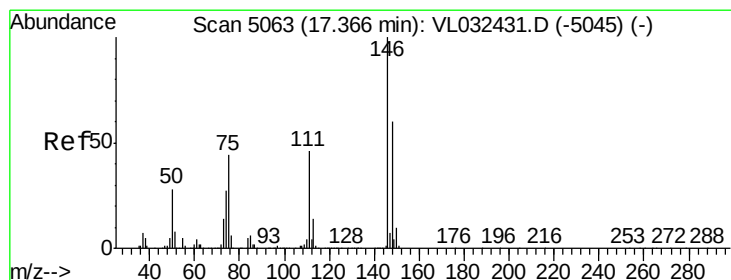
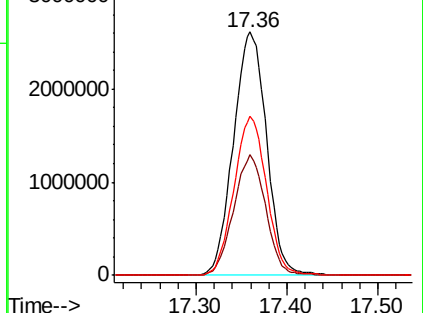
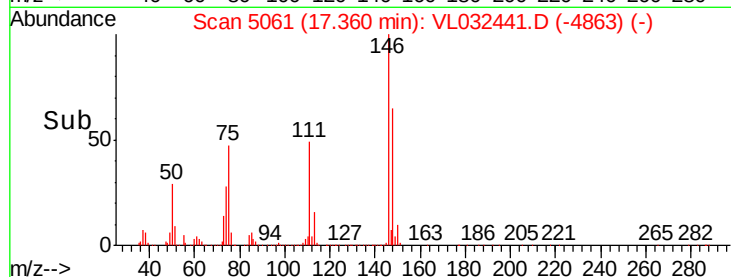
148 64.2 32.0 96.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 28.753 ppbv

RT: 17.36 min Scan# 5061

Delta R.T. -0.01 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

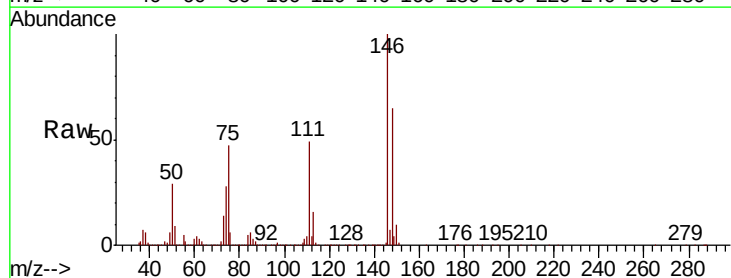
Tgt Ion:146 Resp: 6618105

Ion Ratio Lower Upper

146 100

111 48.0 23.4 70.2

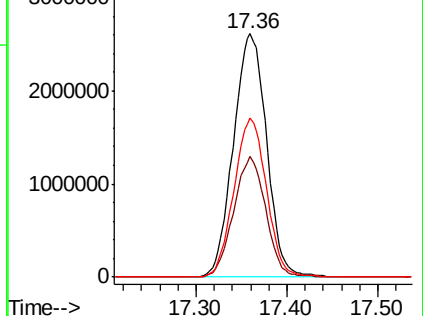
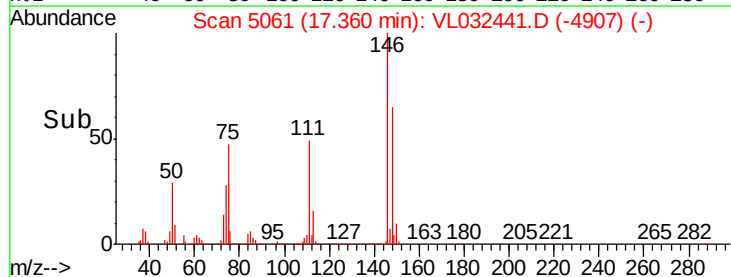
148 64.3 32.0 96.2

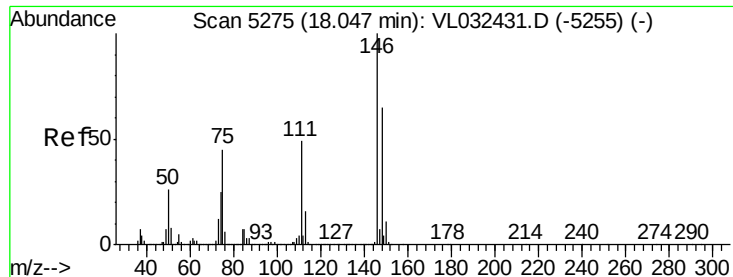


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 0.034 ppbv

RT: 18.03 min Scan# 5270

Delta R.T. -0.02 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

Instrument :

MSVOA_L

ClientSampled :

SS-1

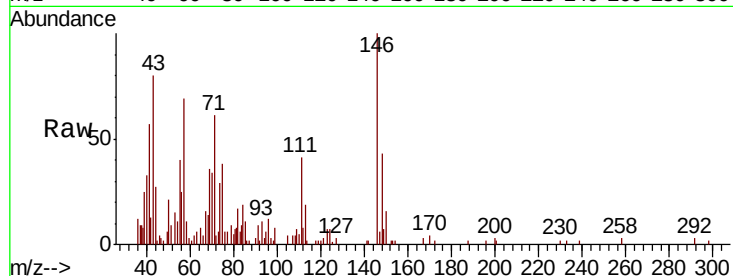
Tgt Ion:146 Resp: 8241

Ion Ratio Lower Upper

146 100

111 136.0 24.9 74.8#

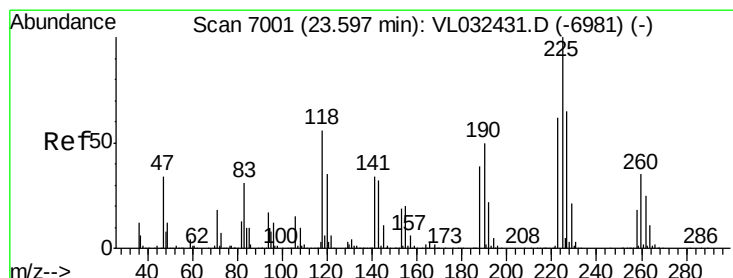
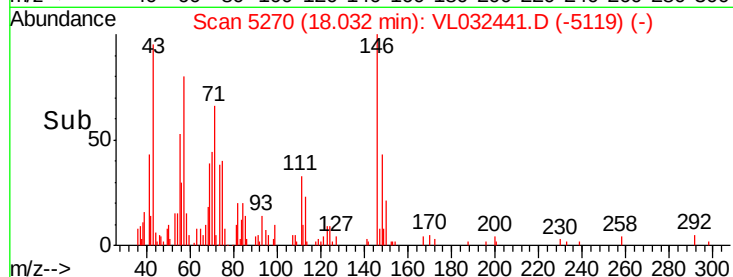
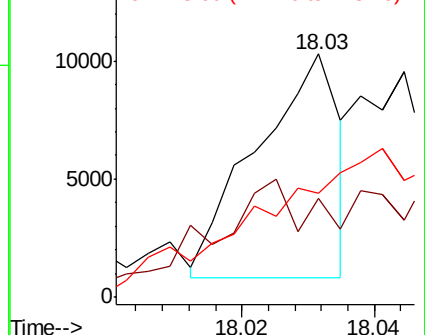
148 0.0 32.0 96.0#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 0.117 ppbv

RT: 23.59 min Scan# 6998

Delta R.T. -0.01 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

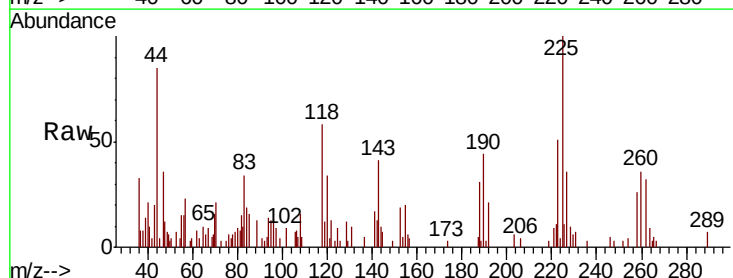
Tgt Ion:225 Resp: 10435

Ion Ratio Lower Upper

225 100

223 65.0 50.6 76.0

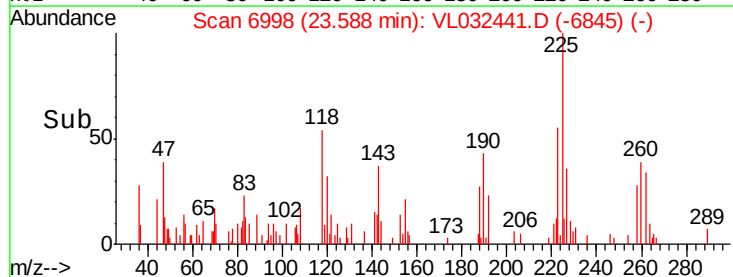
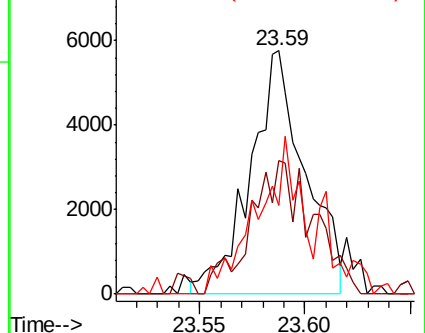
227 65.6 51.2 76.8

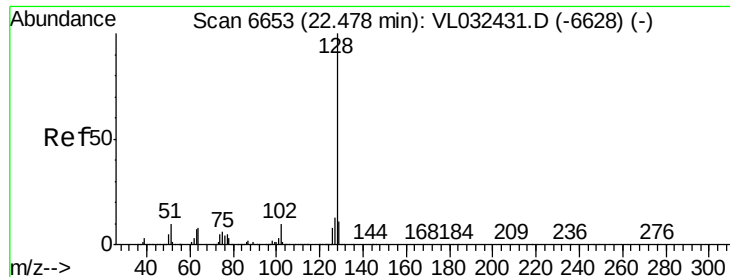


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 0.106 ppbv

RT: 22.48 min Scan# 6654

Delta R.T. 0.00 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

Instrument :

MSVOA_L

ClientSampleId :

SS-1

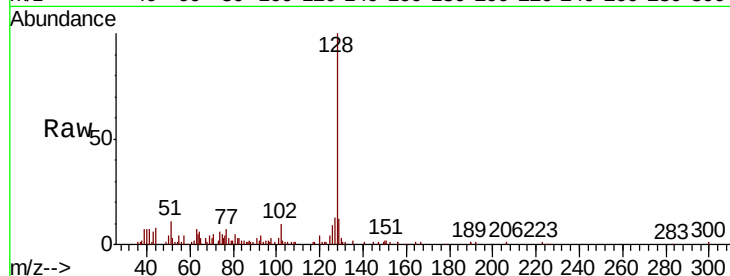
Tgt Ion:128 Resp: 36051

Ion Ratio Lower Upper

128 100

127 11.9 10.2 15.2

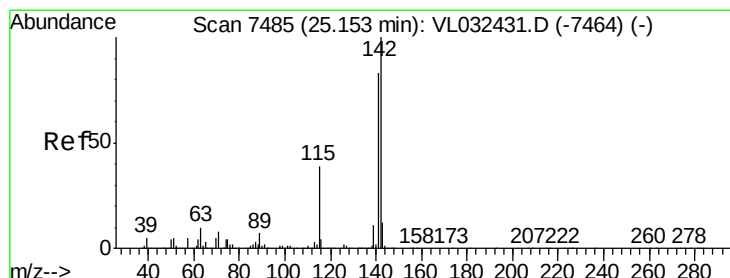
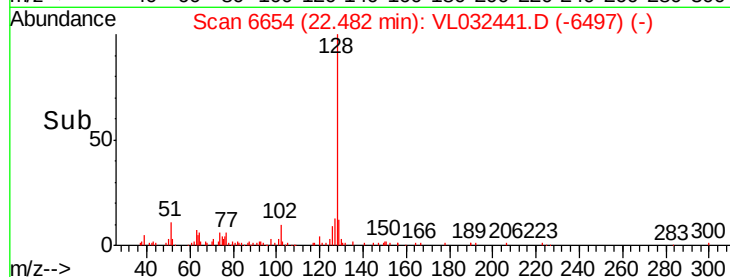
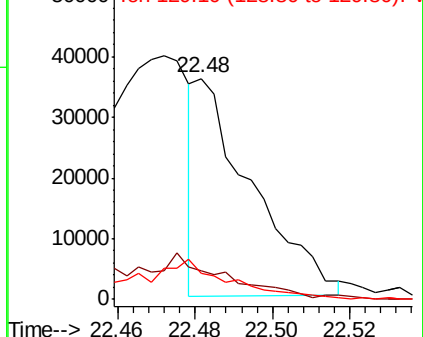
129 12.1 8.5 12.7



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.285 ppbv

RT: 25.16 min Scan# 7486

Delta R.T. 0.00 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

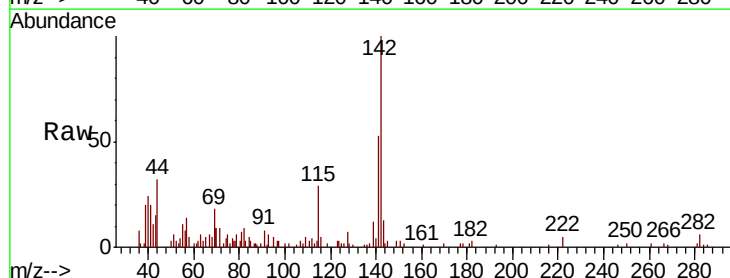
Tgt Ion:142 Resp: 25752

Ion Ratio Lower Upper

142 100

141 82.5 67.0 100.6

115 36.7 31.3 46.9



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

