

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
 Data File : VL033491.D
 Acq On : 28 Mar 2019 6:15
 Operator : SY/AP
 Sample : K1991-09
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 28 07:33:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar 26 16:00:50 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	755181	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1923835	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	1884023	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1426577	9.66	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	30996	0.281	ppbv	91
3) Chlorodifluoromethane	3.01	51	33602	0.386	ppbv #	84
4) Chloromethane	3.17	50	9561	0.208	ppbv	96
7) Chloroethane	3.60	64	813	0.048	ppbv	92
9) Propene	3.23	41	214382	5.872	ppbv	93
11) Trichlorofluoromethane	4.00	101	174236	1.284	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.54	101	7728	0.085	ppbv #	14
13) Ethanol	3.65	45	72767	7.702	ppbv	68
15) Acetone	3.90	43	265786	2.927	ppbv	92
16) 1,3-Butadiene	3.34	39	485051	13.468	ppbv #	10
17) tert-Butyl alcohol	4.36	59	8216	0.492	ppbv #	41
19) Isopropyl Alcohol	4.03	45	3109	0.054	ppbv #	95
20) Methylene Chloride	4.41	84	19280	0.500	ppbv #	82
21) Allyl Chloride	4.36	41	8875	0.155	ppbv #	76
23) Vinyl Acetate	5.15	43	17259	0.134	ppbv #	61
24) 1,1-Dichloroethane	5.08	63	1165169	11.868	ppbv	99
25) Ethyl Acetate	5.77	43	34677	0.206	ppbv #	84
26) Hexane	5.78	57	45075	0.602	ppbv #	42
27) Carbon Disulfide	4.62	76	84606	0.950	ppbv #	92
29) Chloroform	5.84	83	128073	0.997	ppbv	96
30) Cyclohexane	7.23	84	2654	0.045	ppbv #	1
32) 1,1,1-Trichloroethane	6.61	97	3338672	27.305	ppbv	98
34) 2-Butanone	5.34	43	40828	0.353	ppbv	99
35) Carbon Tetrachloride	7.13	117	55098	0.404	ppbv	91
36) Benzene	7.00	78	16937	0.105	ppbv #	91
37) 1,2-Dichloroethane	6.61	62	221267	2.045	ppbv #	1
38) Trichloroethene	7.96	130	2471091	40.676	ppbv	98
39) 1,2-Dichloropropane	7.95	63	7976	0.126	ppbv #	1
52) Tetrachloroethene	11.36	164	160015	2.627	ppbv	96
53) Toluene	9.94	91	225744	1.203	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	8938	0.038	ppbv	97
74) 1,2,4-Trimethylbenzene	16.91	105	12536	0.050	ppbv #	73
75) 1,3-Dichlorobenzene	17.30	146	72819	0.470	ppbv	94
76) 1,4-Dichlorobenzene	17.30	146	72819	0.483	ppbv	92
80) Naphthalene,2-methyl-	25.10	142	4478	0.062	ppbv #	50

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.01 min

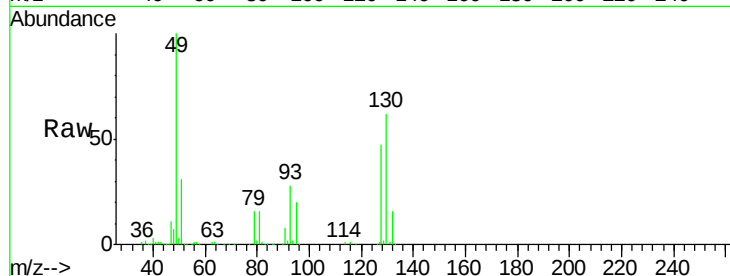
Lab File: VL033491.D

Acq: 28 Mar 2019 6:15

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 49 Resp: 755181

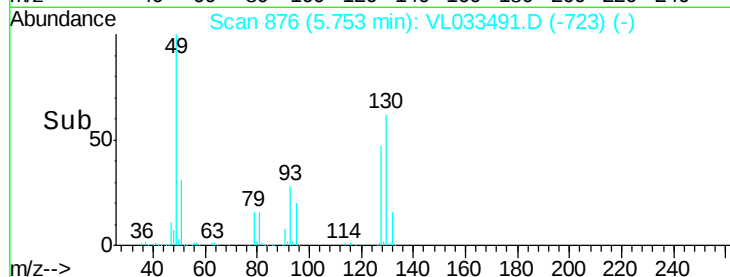
Ion	Ratio	Lower	Upper
49	100		
128	50.7	24.0	72.0
130	65.6	31.2	93.6



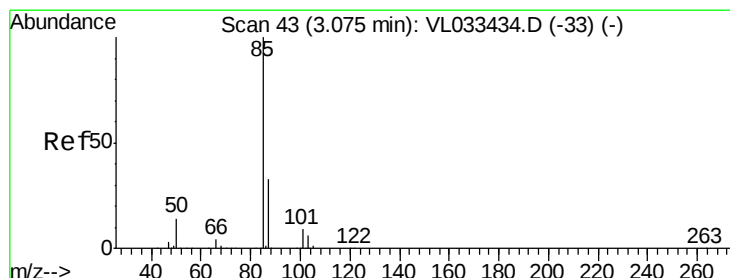
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



Time-->



#2

Dichlorodifluoromethane

Concen: 0.281 ppbv

RT: 3.07 min Scan# 42

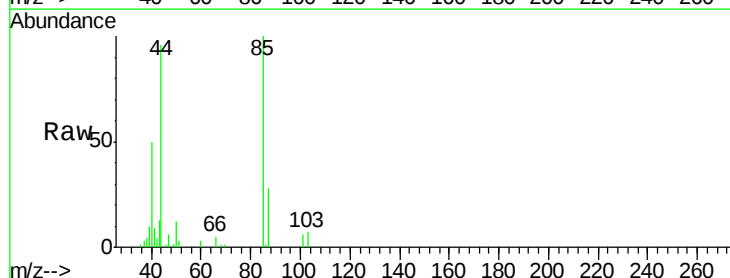
Delta R.T. -0.00 min

Lab File: VL033491.D

Acq: 28 Mar 2019 6:15

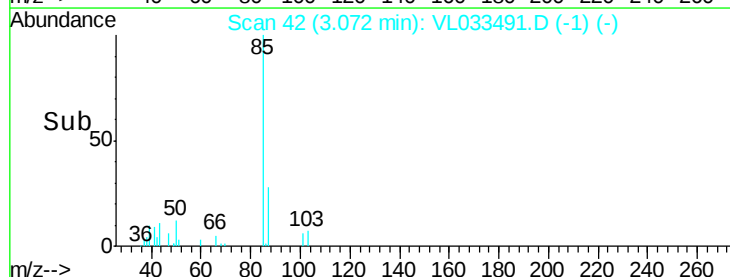
Tgt Ion: 85 Resp: 30996

Ion	Ratio	Lower	Upper
85	100		
87	28.4	26.7	40.1

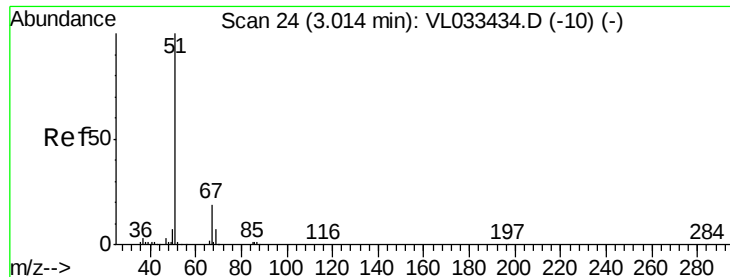


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



Time-->



#3

Chlorodifluoromethane

Concen: 0.386 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.00 min

Lab File: VL033491.D

Acq: 28 Mar 2019 6:15

Instrument :

MSVOA_L

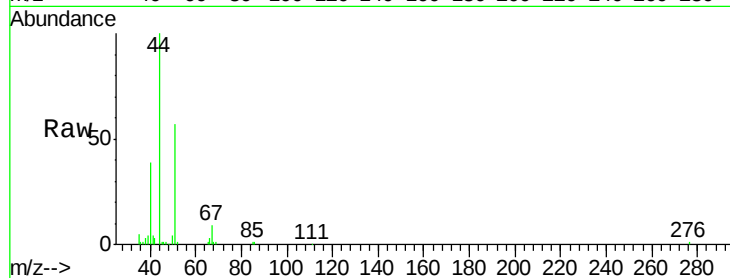
ClientSampleId :

Tot Ion: 51 Resp: 33602

Ion Ratio Lower Upper

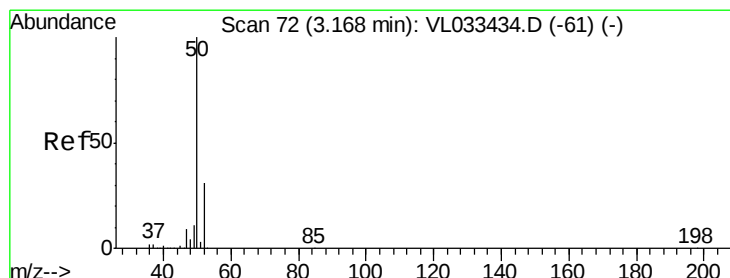
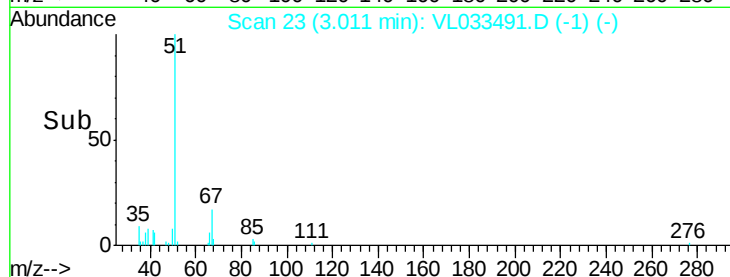
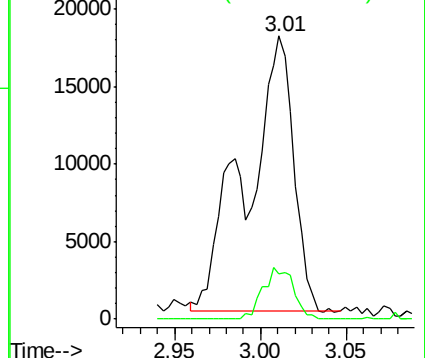
51 100

67 12.2 15.7 23.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.208 ppbv

RT: 3.17 min Scan# 71

Delta R.T. -0.00 min

Lab File: VL033491.D

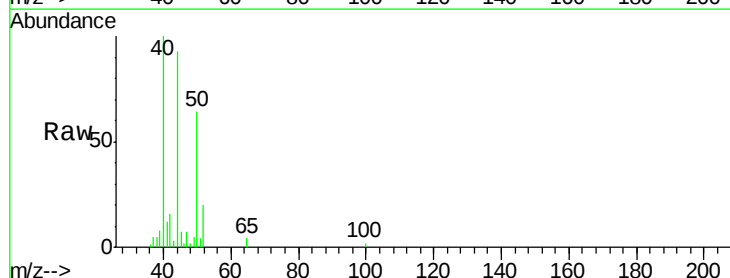
Acq: 28 Mar 2019 6:15

Tgt Ion: 50 Resp: 9561

Ion Ratio Lower Upper

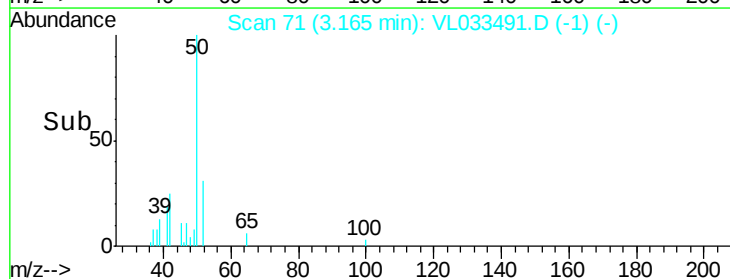
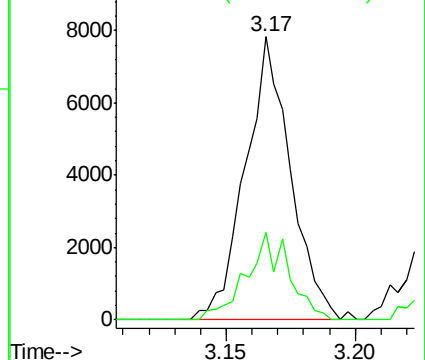
50 100

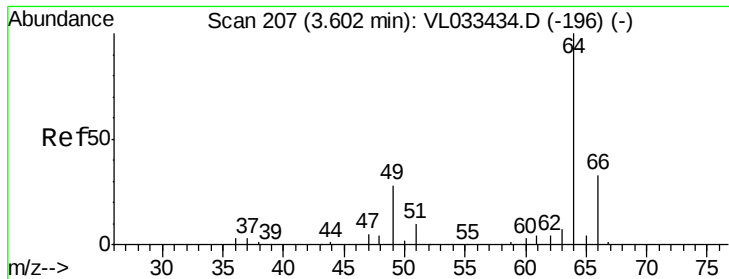
52 29.0 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 0.048 ppbv

RT: 3.60 min Scan# 205

Delta R.T. -0.01 min

Lab File: VL033491.D

Acq: 28 Mar 2019 6:15

Instrument :

MSVOA_L

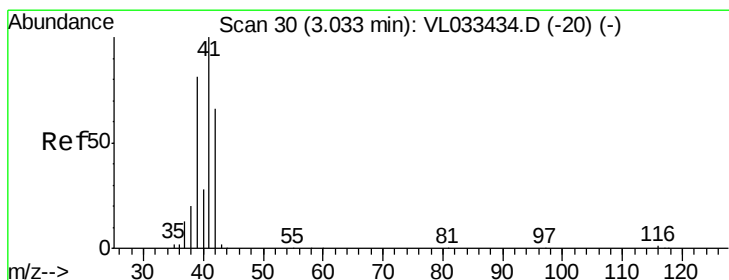
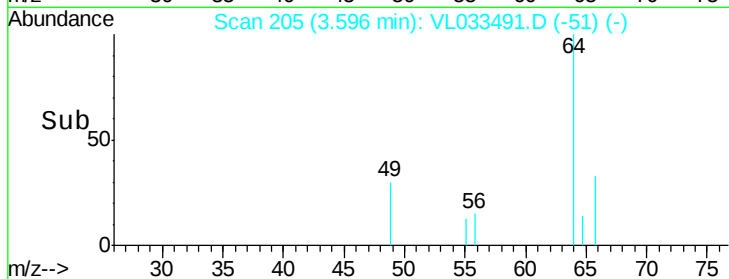
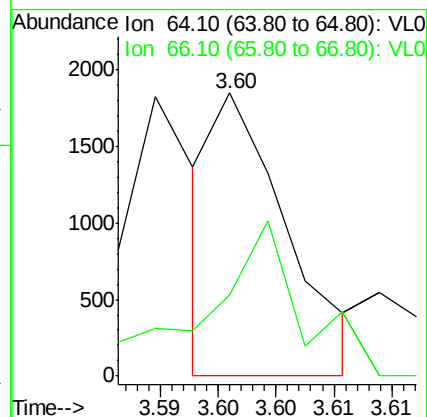
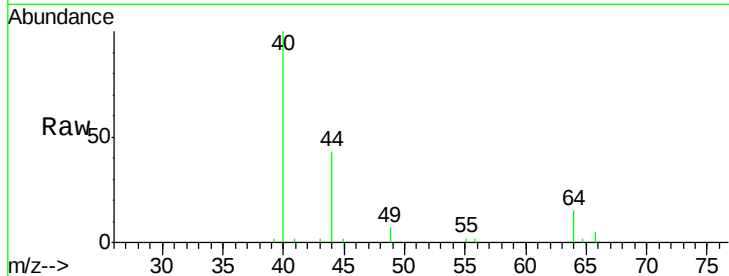
ClientSampled :

Tot Ion: 64 Resp: 813

Ion Ratio Lower Upper

64 100

66 28.6 26.7 40.1



#9

Propene

Concen: 5.872 ppbv

RT: 3.23 min Scan# 92

Delta R.T. 0.20 min

Lab File: VL033491.D

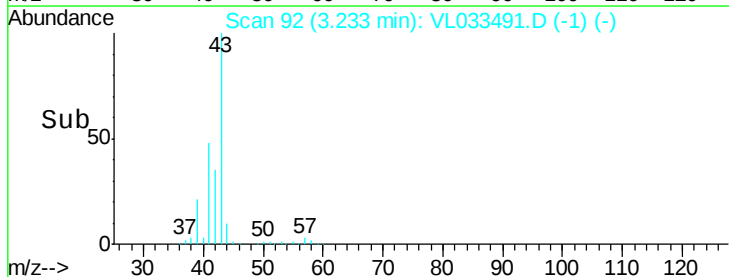
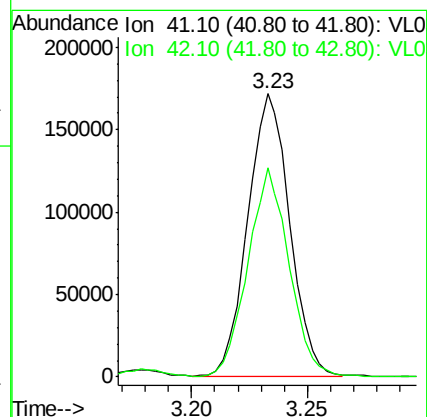
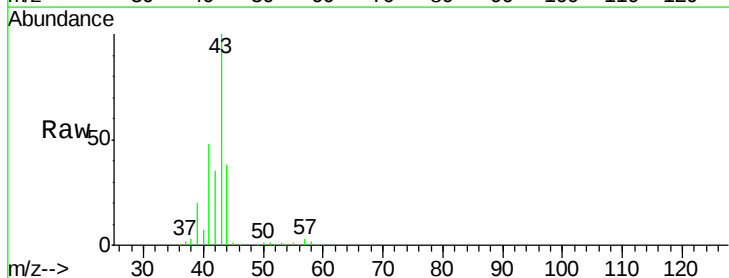
Acq: 28 Mar 2019 6:15

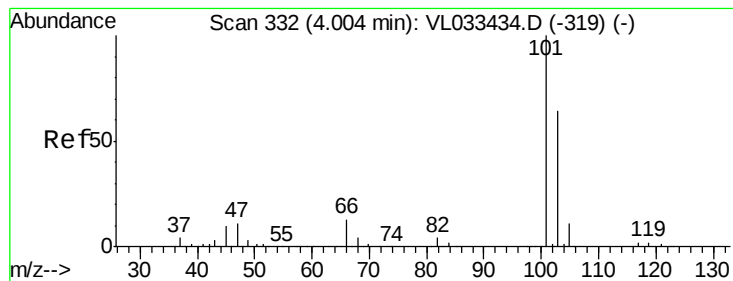
Tgt Ion: 41 Resp: 214382

Ion Ratio Lower Upper

41 100

42 73.3 53.9 80.9





#11

Trichlorofluoromethane

Concen: 1.284 ppbv

RT: 4.00 min Scan# 330

Delta R.T. -0.01 min

Lab File: VL033491.D

Acq: 28 Mar 2019 6:15

Instrument :

MSVOA_L

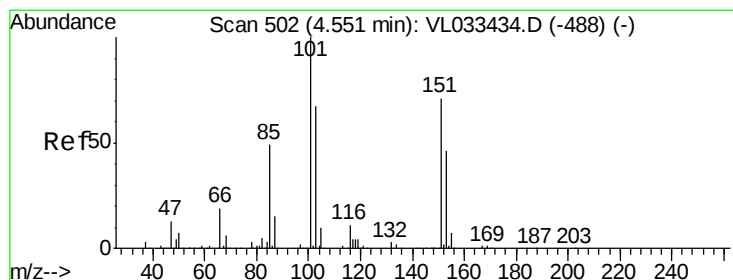
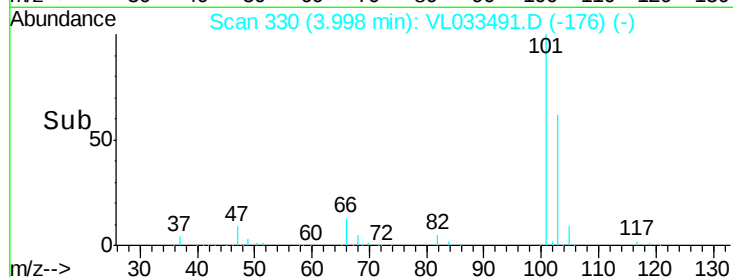
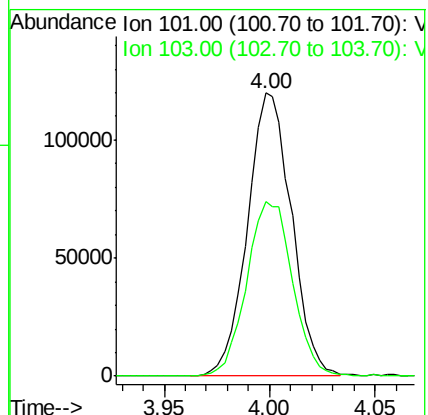
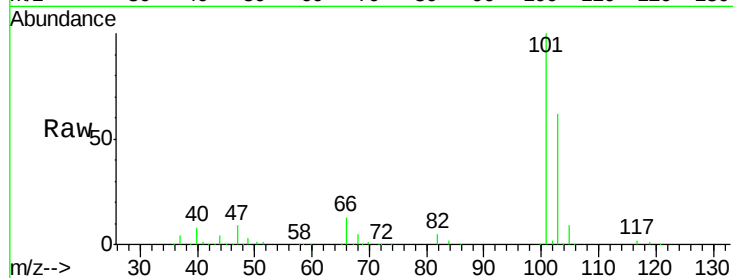
ClientSampleId :

Tot Ion:101 Resp: 174236

Ion Ratio Lower Upper

101 100

103 61.8 51.3 76.9



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.085 ppbv

RT: 4.54 min Scan# 500

Delta R.T. -0.01 min

Lab File: VL033491.D

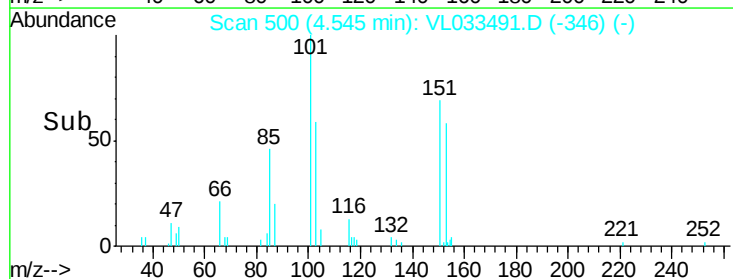
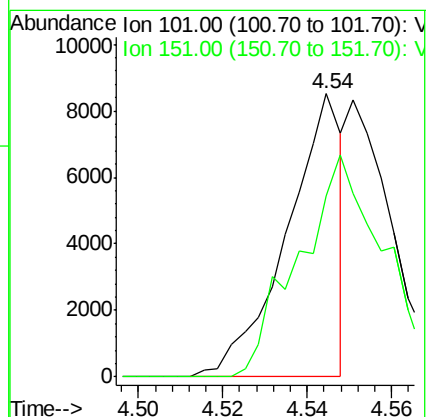
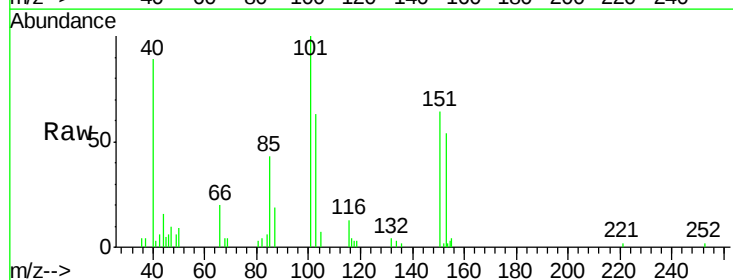
Acq: 28 Mar 2019 6:15

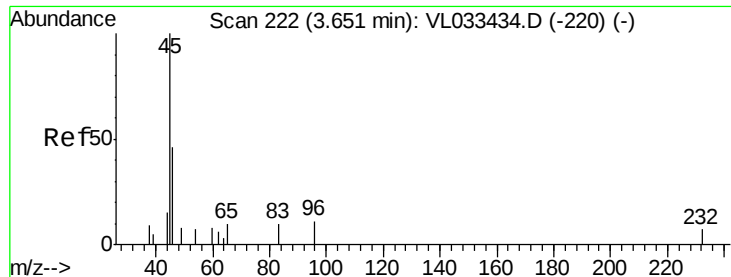
Tgt Ion:101 Resp: 7728

Ion Ratio Lower Upper

101 100

151 0.0 57.7 86.5#

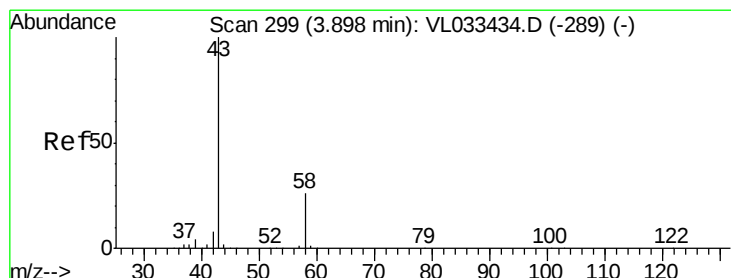
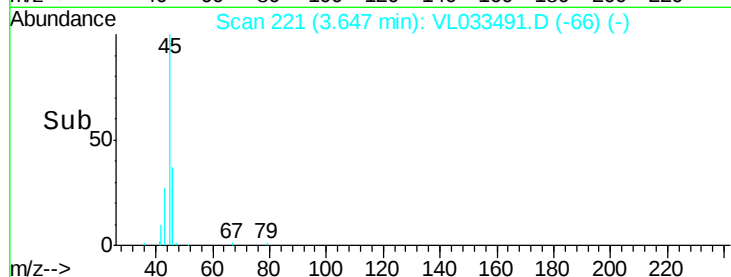
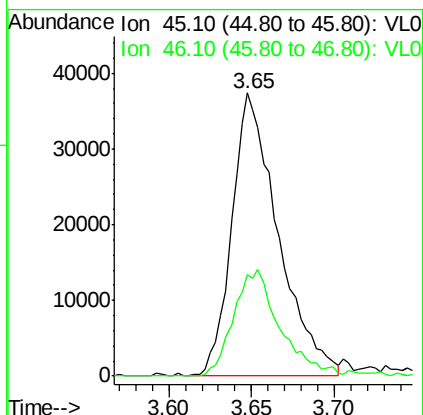
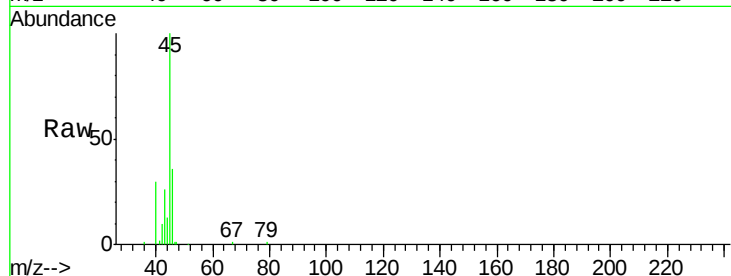




#13
Ethanol
Concen: 7.702 ppbv
RT: 3.65 min Scan# 221
Delta R.T. -0.00 min
Lab File: VL033491.D
Acq: 28 Mar 2019 6:15

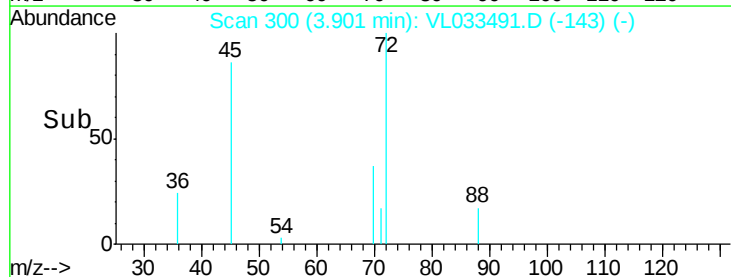
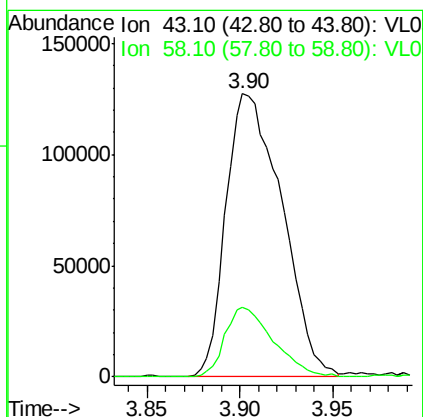
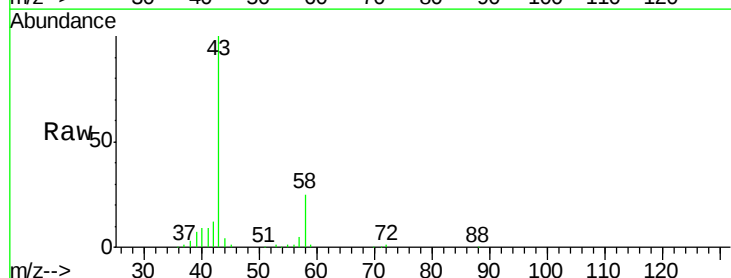
Instrument :
MSVOA_L
ClientSampleId :

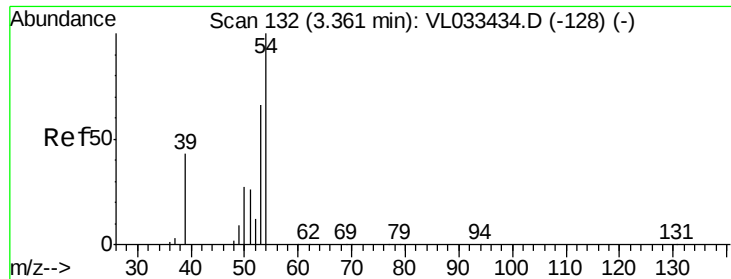
Tot Ion: 45 Resp: 72767
Ion Ratio Lower Upper
45 100
46 38.4 25.4 101.8



#15
Acetone
Concen: 2.927 ppbv
RT: 3.90 min Scan# 300
Delta R.T. 0.00 min
Lab File: VL033491.D
Acq: 28 Mar 2019 6:15

Tgt Ion: 43 Resp: 265786
Ion Ratio Lower Upper
43 100
58 21.5 20.5 30.7





#16

1,3-Butadiene

Concen: 13.468 ppbv

RT: 3.34 min Scan# 124

Delta R.T. -0.03 min

Lab File: VL033491.D

Acq: 28 Mar 2019 6:15

Instrument :

MSVOA_L

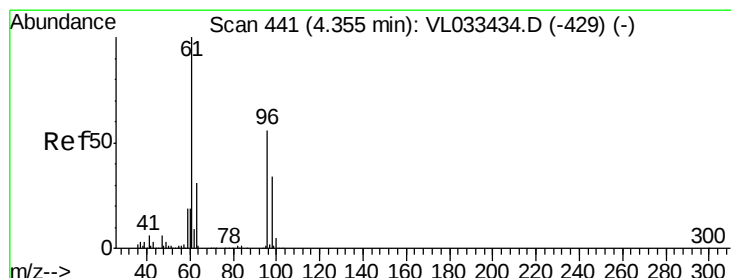
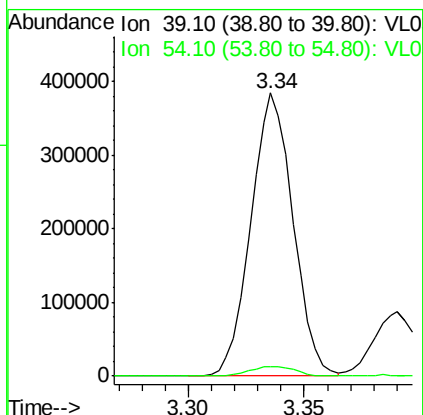
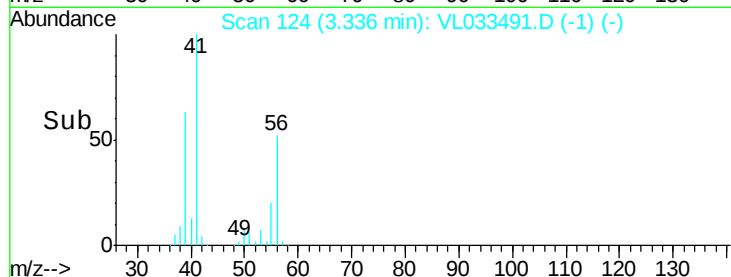
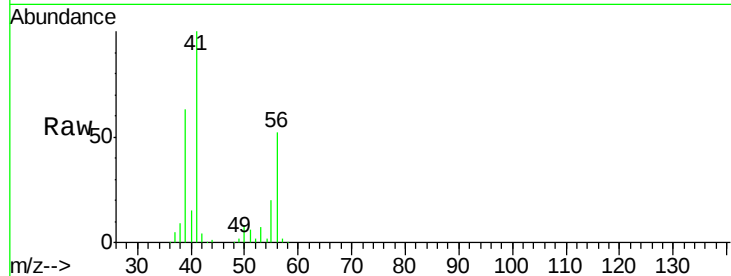
ClientSampleId :

Tot Ion: 39 Resp: 485051

Ion Ratio Lower Upper

39 100

54 3.7 69.4 104.2#



#17

tert-Butyl alcohol

Concen: 0.492 ppbv

RT: 4.36 min Scan# 443

Delta R.T. 0.01 min

Lab File: VL033491.D

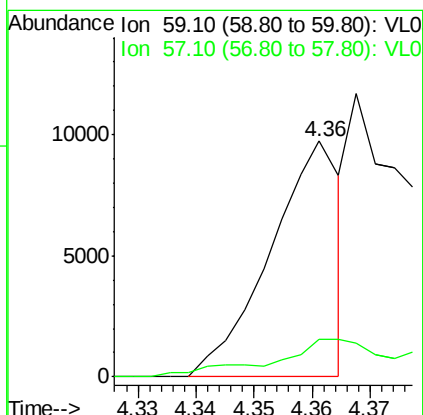
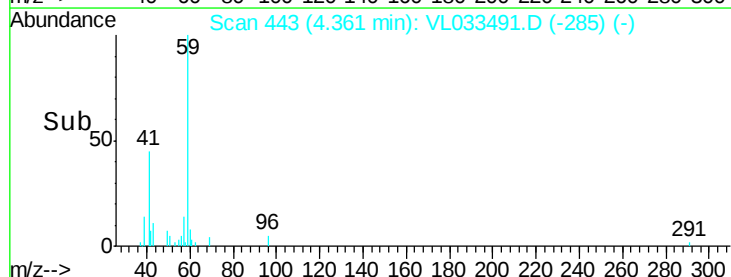
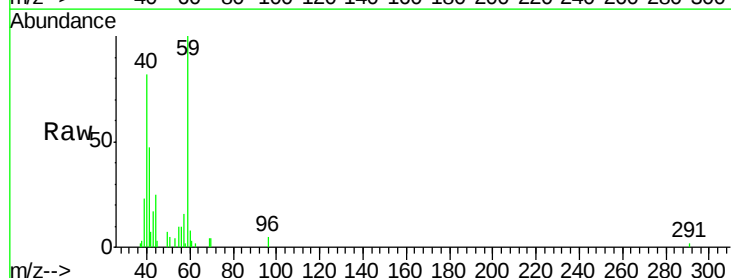
Acq: 28 Mar 2019 6:15

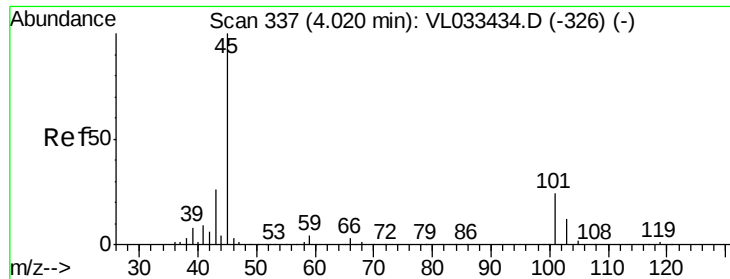
Tgt Ion: 59 Resp: 8216

Ion Ratio Lower Upper

59 100

57 31.5 7.8 11.8#





#19

Isopropyl Alcohol

Concen: 0.054 ppbv

RT: 4.03 min Scan# 340

Delta R.T. 0.01 min

Lab File: VL033491.D

Acq: 28 Mar 2019 6:15

Instrument :

MSVOA_L

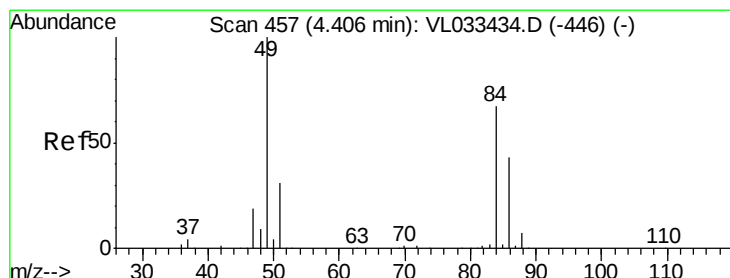
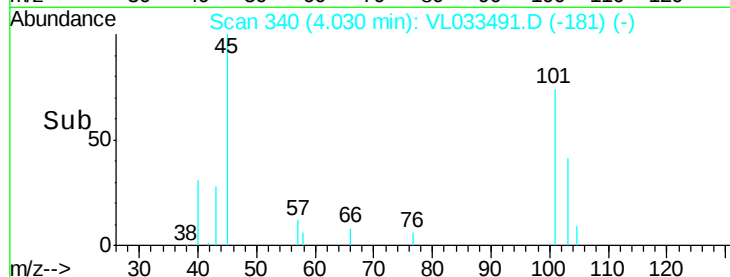
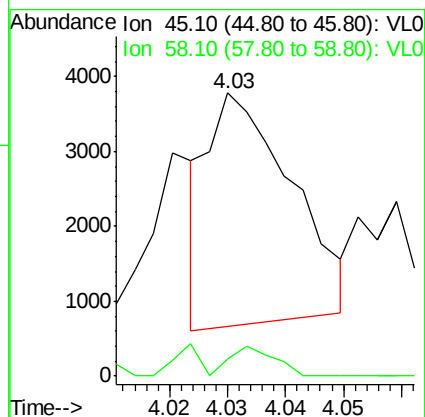
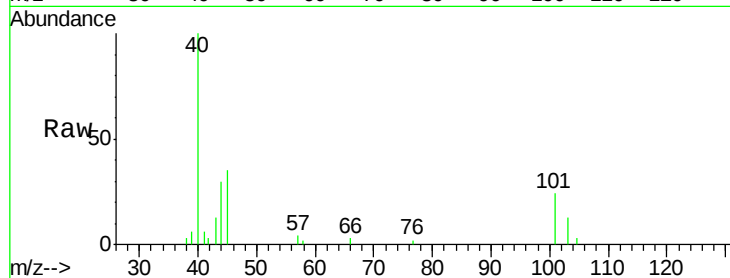
ClientSampleId :

Tot Ion: 45 Resp: 3109

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.2#



#20

Methylene Chloride

Concen: 0.500 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.00 min

Lab File: VL033491.D

Acq: 28 Mar 2019 6:15

Tgt Ion: 84 Resp: 19280

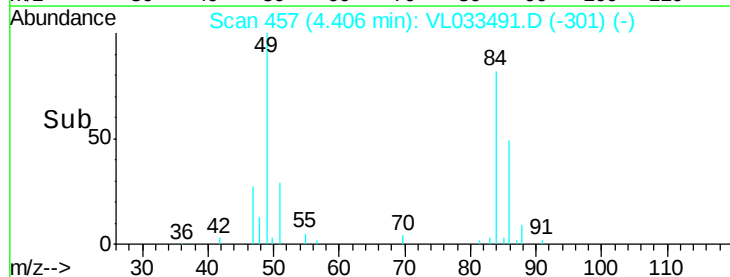
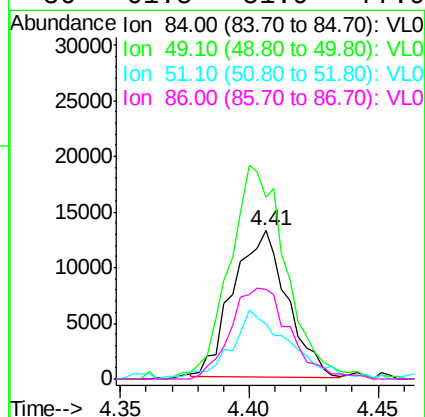
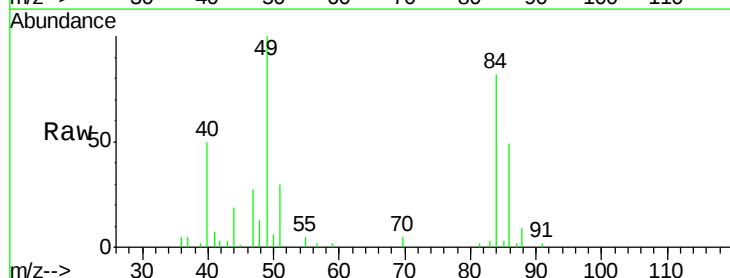
Ion Ratio Lower Upper

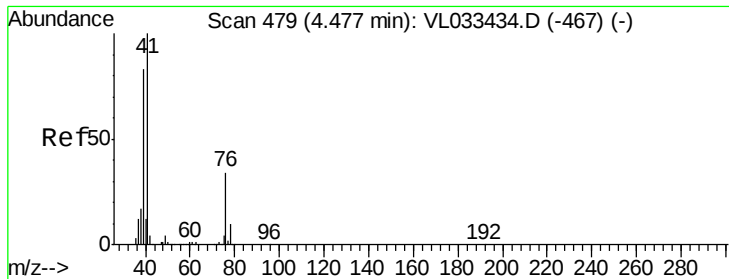
84 100

49 120.0 120.0 180.0#

51 33.9 36.7 55.1#

86 61.5 51.9 77.9





#21

Allvl Chloride

Concen: 0.155 ppbv

RT: 4.36 min Scan# 443

Delta R.T. -0.12 min

Lab File: VL033491.D

Acq: 28 Mar 2019 6:15

Instrument :

MSVOA_L

ClientSampleId :

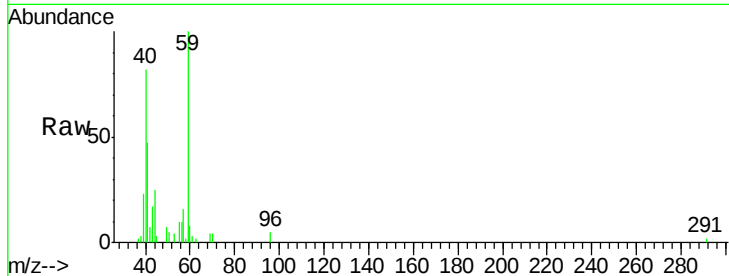
Tot Ion: 41 Resp: 8875

Ion Ratio Lower Upper

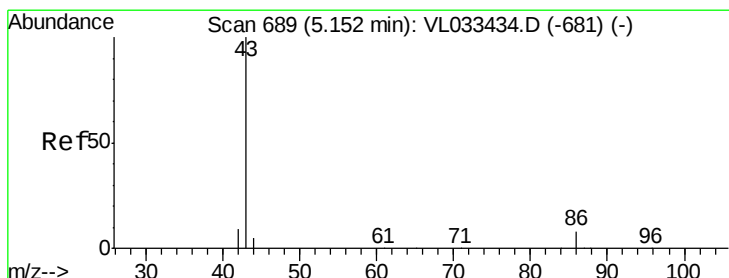
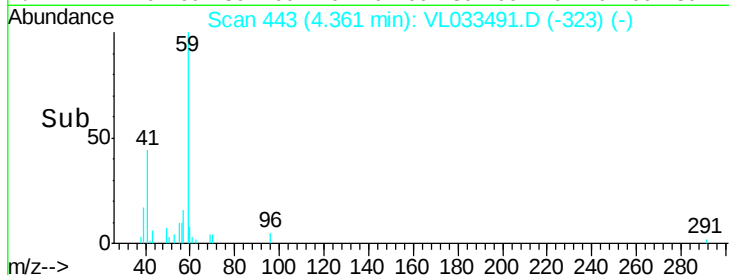
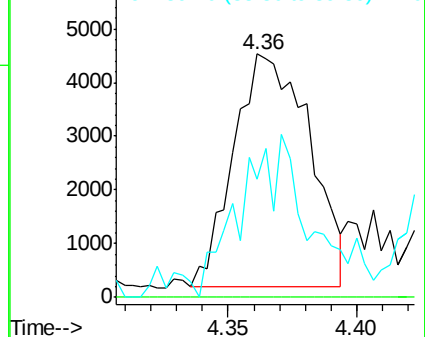
41 100

76 0.0 25.4 38.2#

39 72.3 65.3 97.9



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#23

Vinyl Acetate

Concen: 0.134 ppbv

RT: 5.15 min Scan# 687

Delta R.T. -0.01 min

Lab File: VL033491.D

Acq: 28 Mar 2019 6:15

Tgt Ion: 43 Resp: 17259

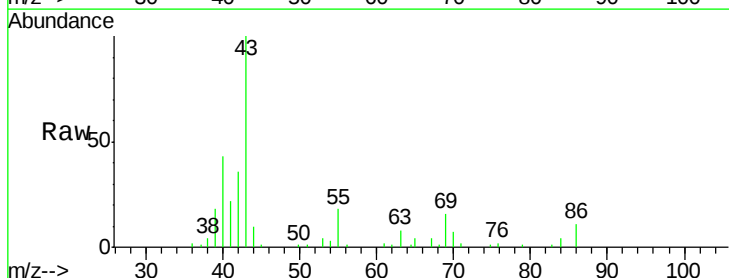
Ion Ratio Lower Upper

43 100

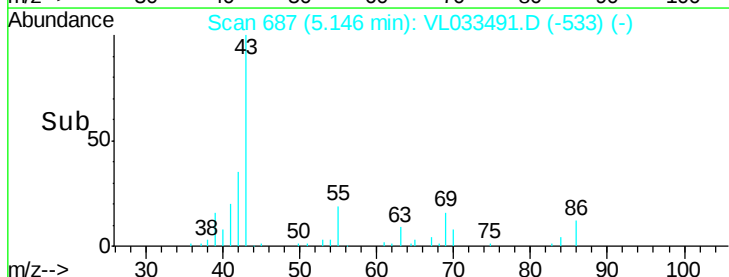
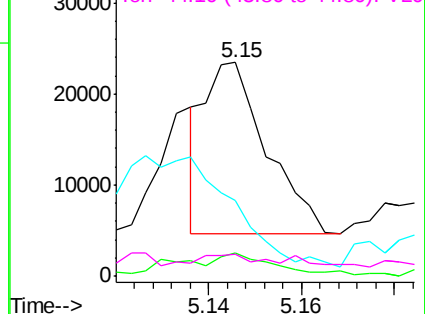
86 10.8 5.6 8.4#

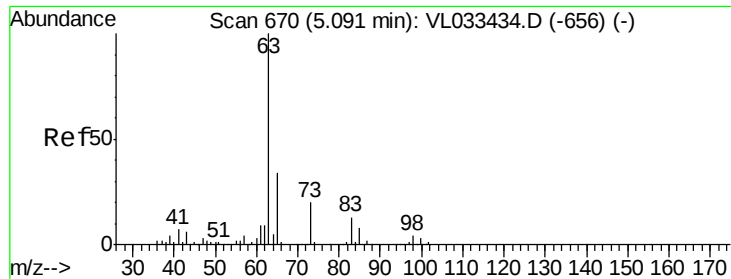
42 38.8 8.0 12.0#

44 5.4 3.9 5.9



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0





#24

1,1-Dichloroethane

Concen: 11.868 ppbv

RT: 5.08 min Scan# 668

Delta R.T. -0.01 min

Lab File: VL033491.D

Acq: 28 Mar 2019 6:15

Instrument :
MSVOA_L
ClientSampleId :

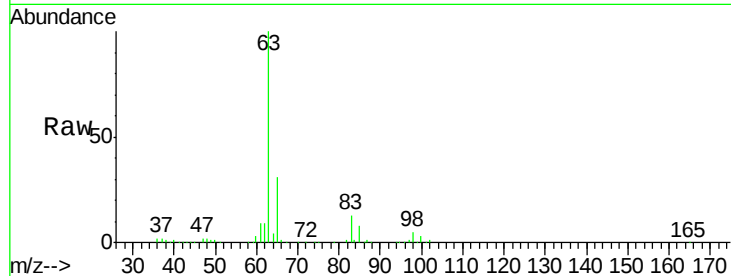
Tot Ion: 63 Resp: 1165169

Ion Ratio Lower Upper

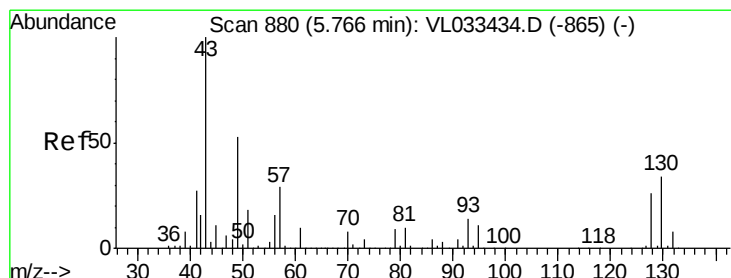
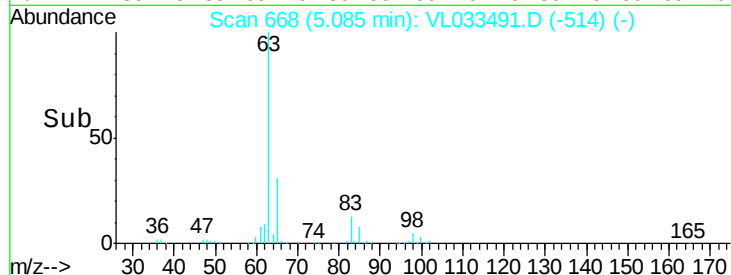
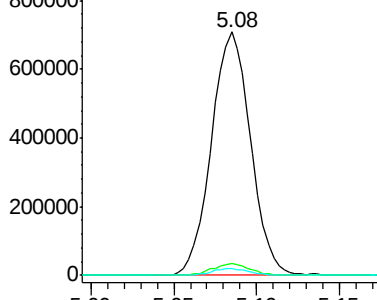
63 100

98 4.6 2.2 6.6

100 3.0 1.5 4.4



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0



#25

Ethyl Acetate

Concen: 0.206 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.01 min

Lab File: VL033491.D

Acq: 28 Mar 2019 6:15

Tgt Ion: 43 Resp: 34677

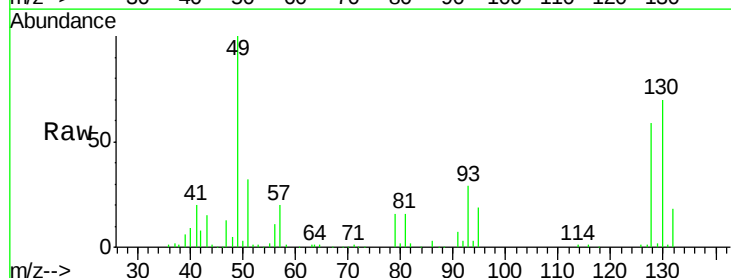
Ion Ratio Lower Upper

43 100

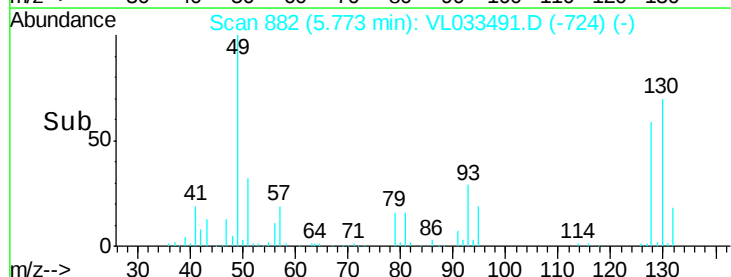
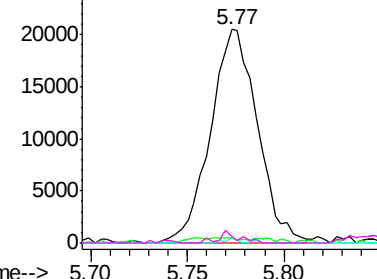
45 4.8 7.8 11.6#

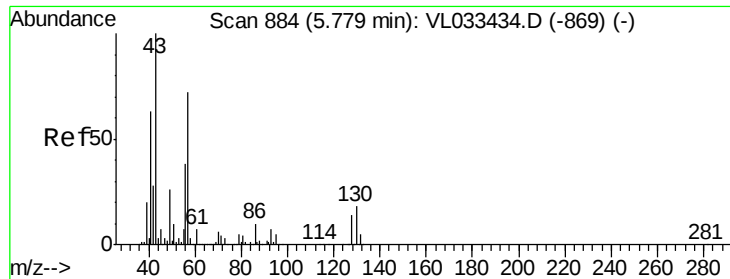
61 0.8 7.3 10.9#

70 2.8 5.6 8.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

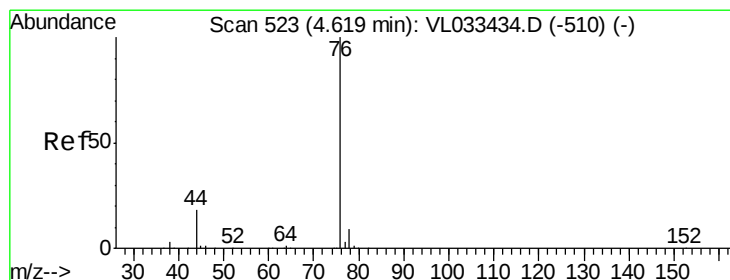
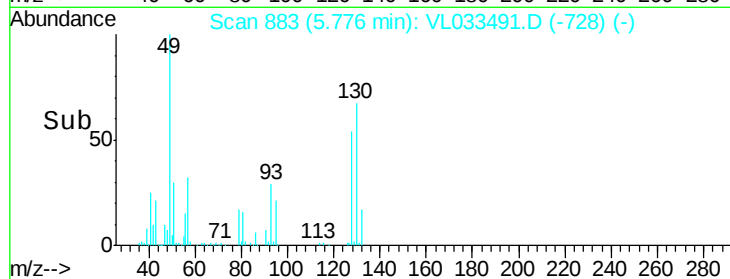
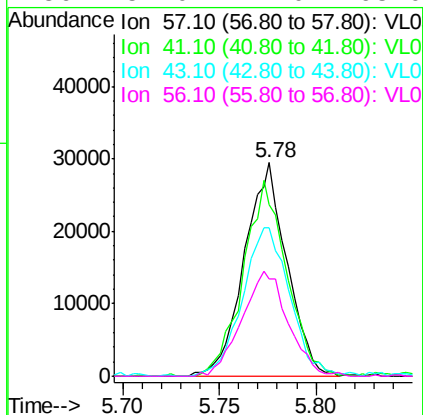
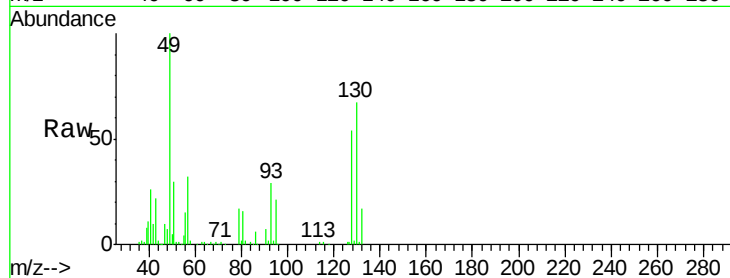




#26
Hexane
Concen: 0.602 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033491.D
Acq: 28 Mar 2019 6:15

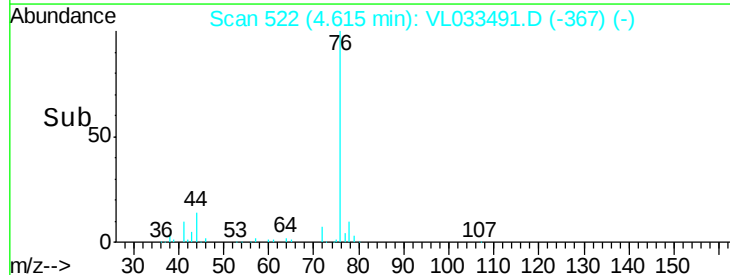
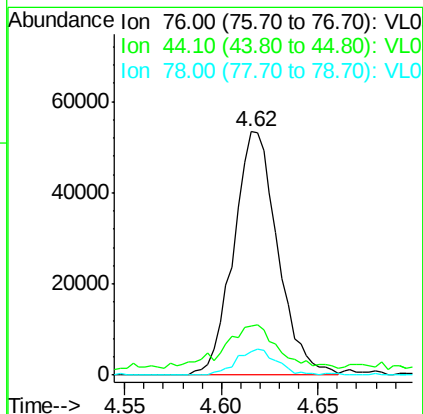
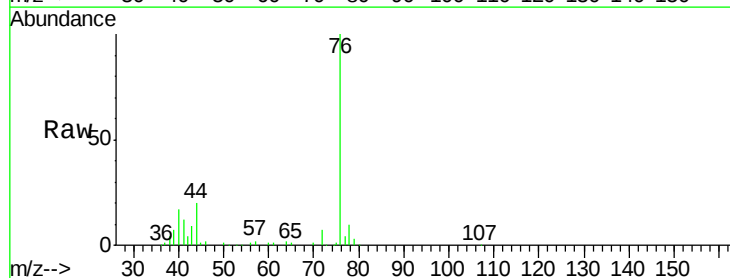
Instrument :
MSVOA_L
ClientSampleId :

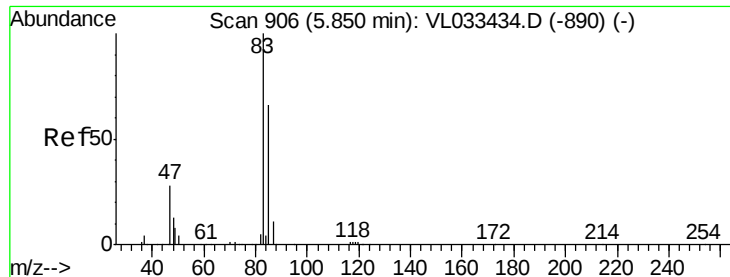
Tot Ion: 57 Resp: 45075
Ion Ratio Lower Upper
57 100
41 94.2 70.7 106.1
43 78.8 182.6 274.0#
56 54.0 42.0 63.0



#27
Carbon Disulfide
Concen: 0.950 ppbv
RT: 4.62 min Scan# 522
Delta R.T. -0.00 min
Lab File: VL033491.D
Acq: 28 Mar 2019 6:15

Tgt Ion: 76 Resp: 84606
Ion Ratio Lower Upper
76 100
44 23.8 14.8 22.2#
78 10.0 7.6 11.4





#29

Chloroform

Concen: 0.997 ppbv

RT: 5.84 min Scan# 903

Delta R.T. -0.01 min

Lab File: VL033491.D

Acq: 28 Mar 2019 6:15

Instrument :

MSVOA_L

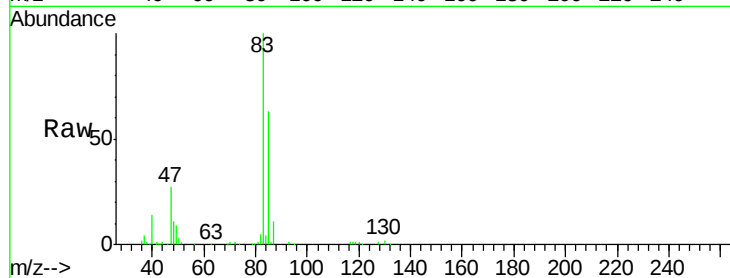
ClientSampleId :

Tot Ion: 83 Resp: 128073

Ion Ratio Lower Upper

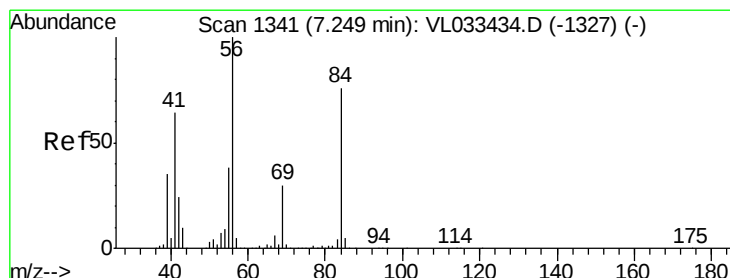
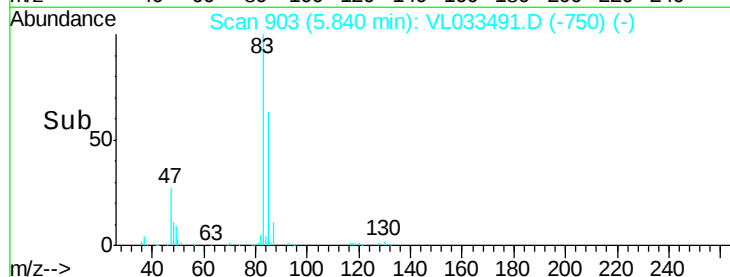
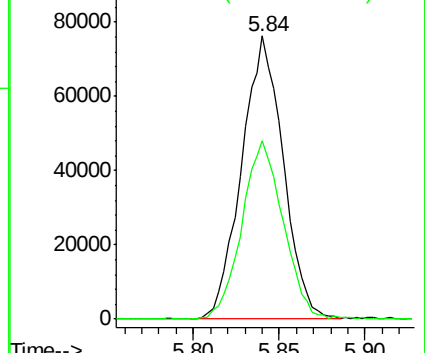
83 100

85 63.0 52.6 79.0



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 0.045 ppbv

RT: 7.23 min Scan# 1336

Delta R.T. -0.02 min

Lab File: VL033491.D

Acq: 28 Mar 2019 6:15

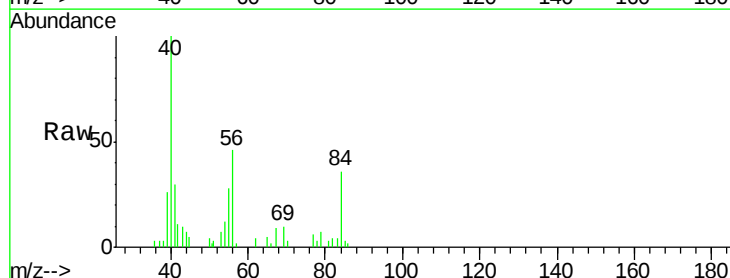
Tgt Ion: 84 Resp: 2654

Ion Ratio Lower Upper

84 100

56 0.0 109.7 164.5#

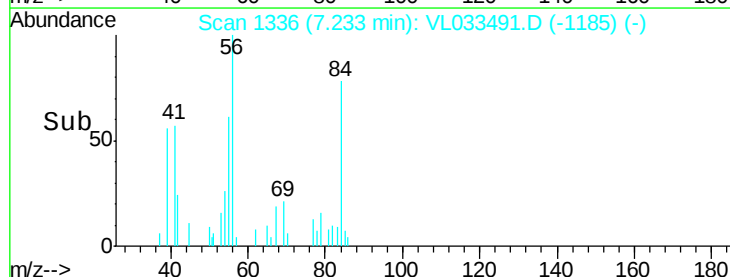
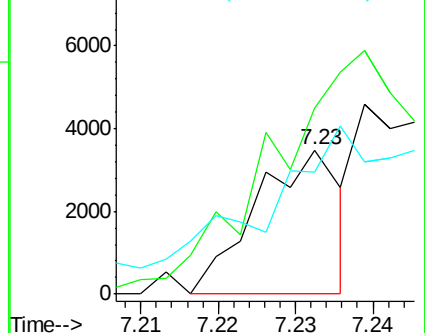
41 0.0 68.2 102.2#

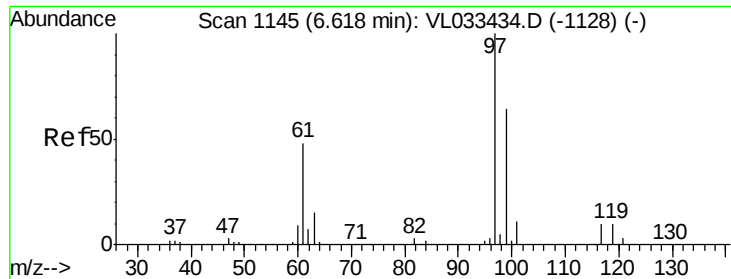


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#32

1,1,1-Trichloroethane

Concen: 27.305 ppbv

RT: 6.61 min Scan# 1143

Delta R.T. -0.01 min

Lab File: VL033491.D

Acq: 28 Mar 2019 6:15

Instrument :

MSVOA_L

ClientSampleId :

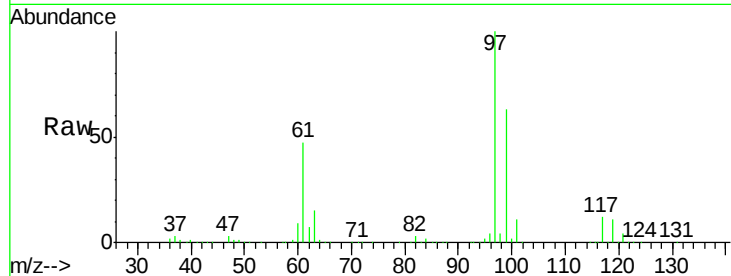
Tot Ion: 97 Resp: 3338672

Ion Ratio Lower Upper

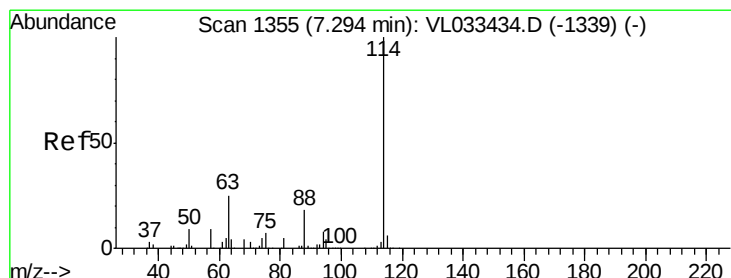
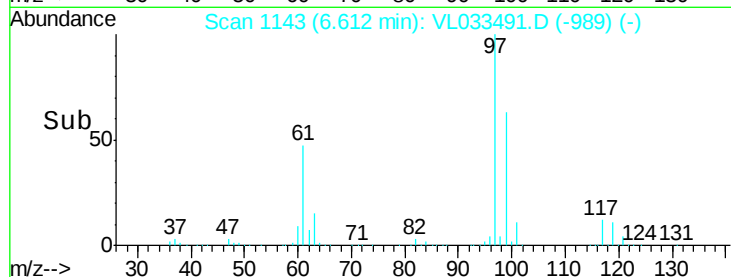
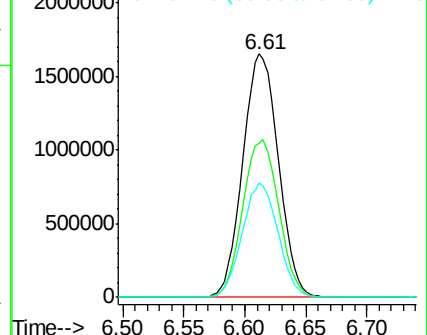
97 100

99 65.5 51.5 77.3

61 47.1 38.8 58.2



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.01 min

Lab File: VL033491.D

Acq: 28 Mar 2019 6:15

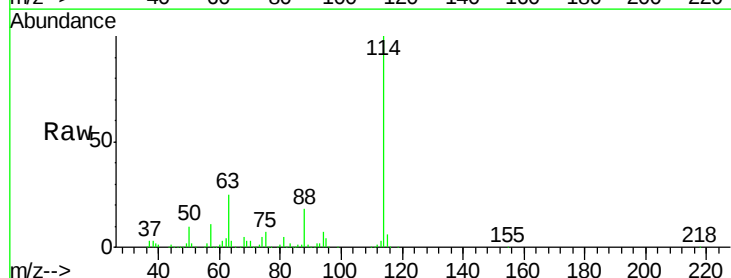
Tgt Ion: 114 Resp: 1923835

Ion Ratio Lower Upper

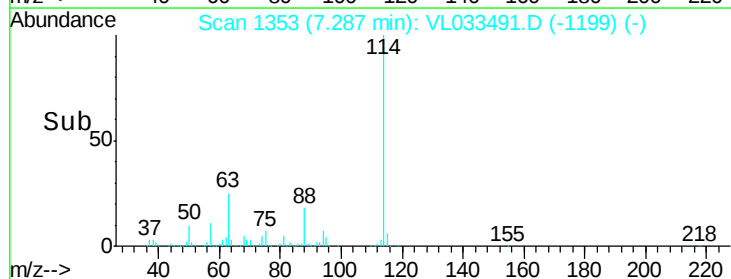
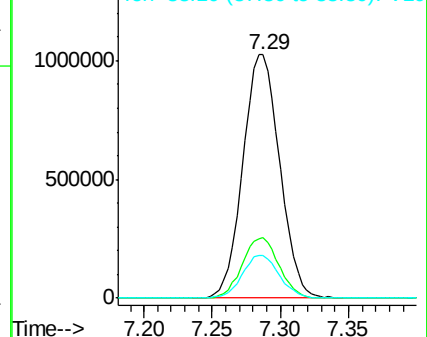
114 100

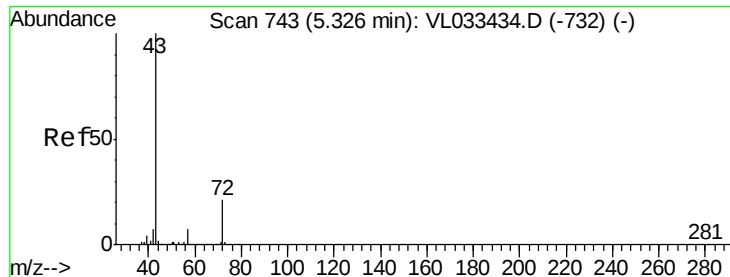
63 24.6 21.5 32.3

88 17.7 14.5 21.7



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 0.353 ppbv

RT: 5.34 min Scan# 746

Delta R.T. 0.01 min

Lab File: VL033491.D

Acq: 28 Mar 2019 6:15

Instrument :

MSVOA_L

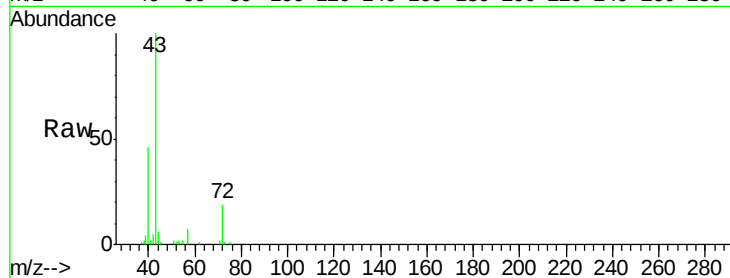
ClientSampled :

Tot Ion: 43 Resp: 40828

Ion Ratio Lower Upper

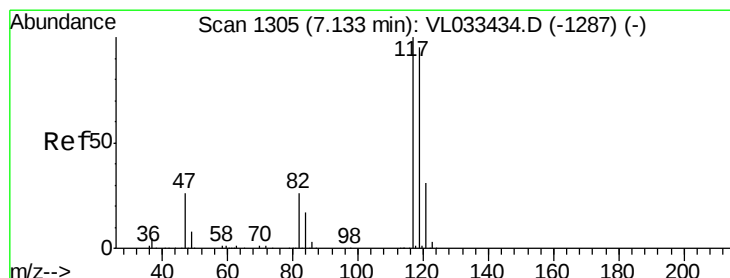
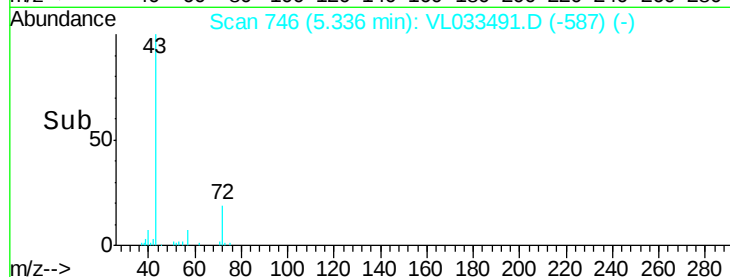
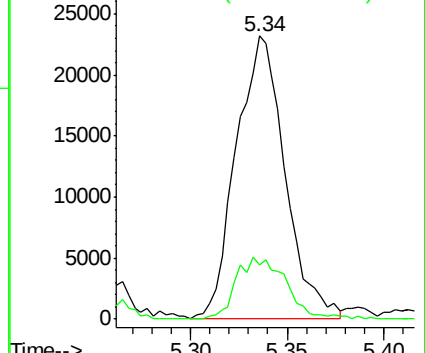
43 100

72 22.1 17.4 26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.404 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VL033491.D

Acq: 28 Mar 2019 6:15

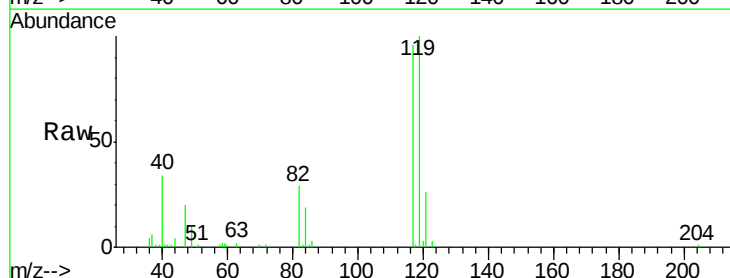
Tgt Ion: 117 Resp: 55098

Ion Ratio Lower Upper

117 100

119 103.8 75.8 113.8

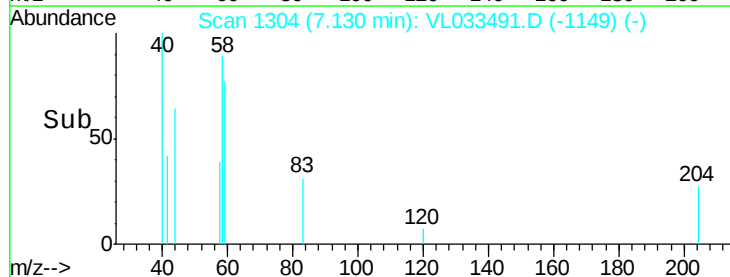
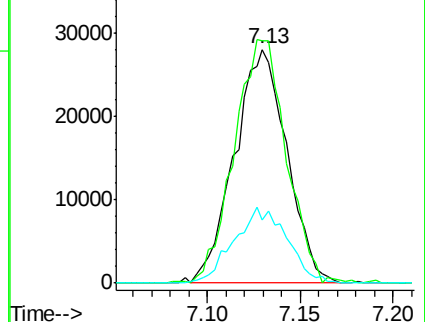
121 26.9 24.7 37.1

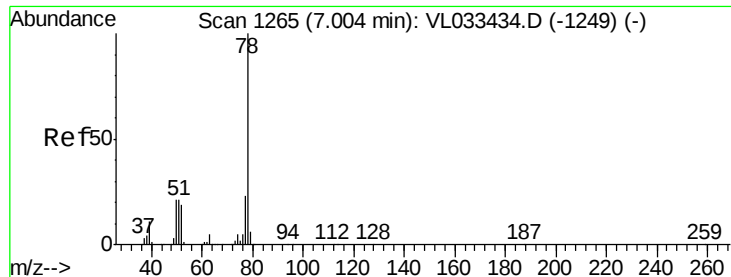


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

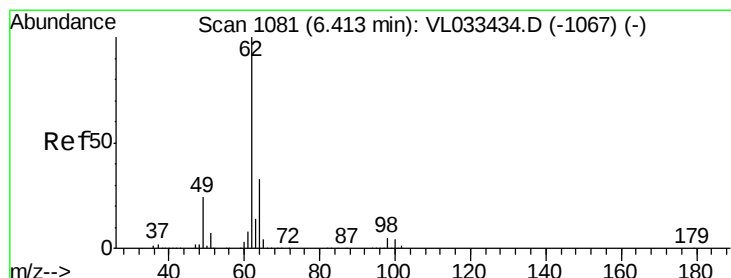
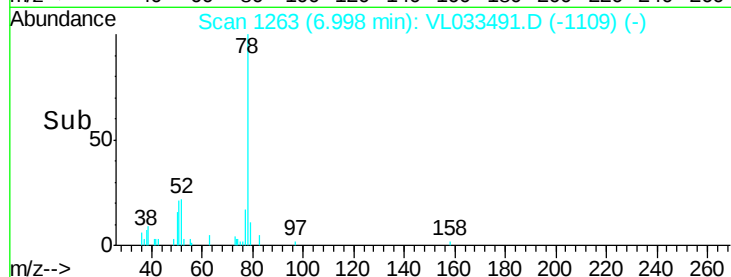
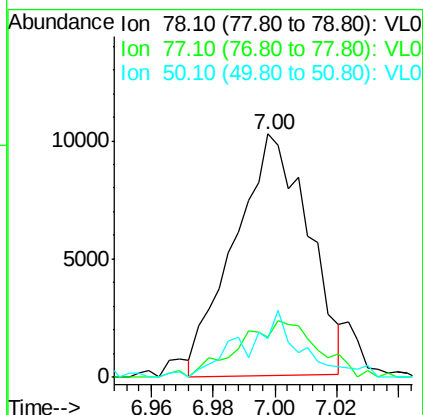
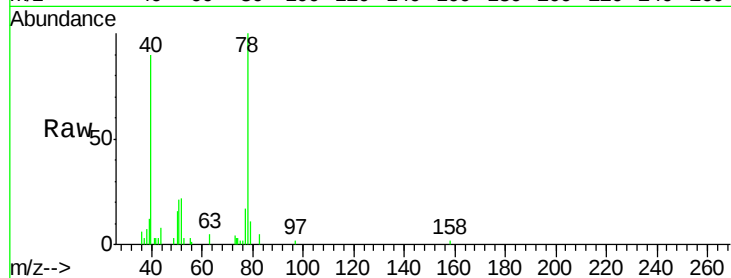




#36
Benzene
Concen: 0.105 ppbv
RT: 7.00 min Scan# 1263
Delta R.T. -0.01 min
Lab File: VL033491.D
Acq: 28 Mar 2019 6:15

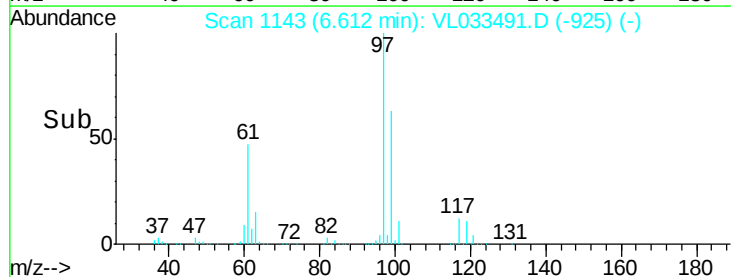
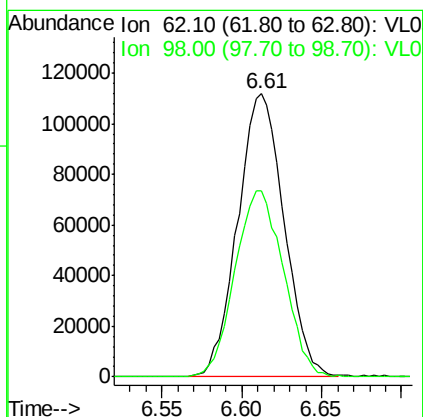
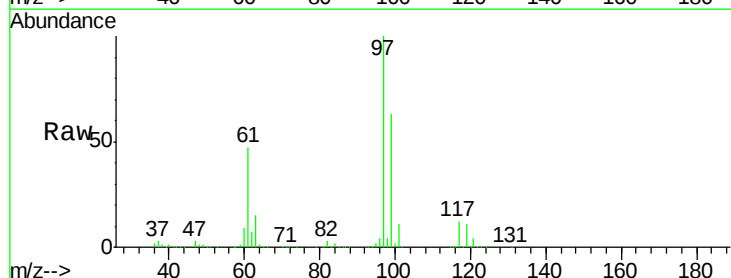
Instrument :
MSVOA_L
ClientSampleId :

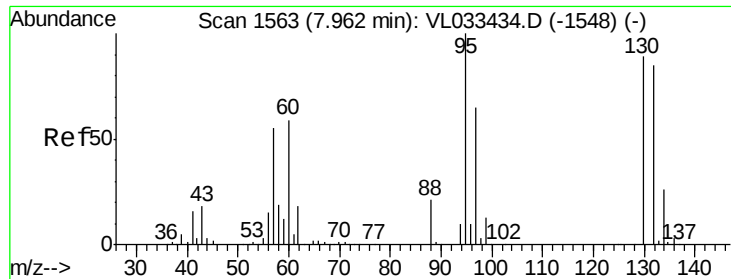
Tot Ion: 78 Resp: 16937
Ion Ratio Lower Upper
78 100
77 17.8 18.1 27.1#
50 17.2 16.7 25.1



#37
1,2-Dichloroethane
Concen: 2.045 ppbv
RT: 6.61 min Scan# 1143
Delta R.T. 0.20 min
Lab File: VL033491.D
Acq: 28 Mar 2019 6:15

Tgt Ion: 62 Resp: 221267
Ion Ratio Lower Upper
62 100
98 68.9 4.4 6.6#





#38

Trichloroethene

Concen: 40.676 ppbv

RT: 7.96 min Scan# 1561

Delta R.T. -0.01 min

Lab File: VL033491.D

Acq: 28 Mar 2019 6:15

Instrument :

MSVOA_L

ClientSampled :

Tot Ion:130 Resp: 2471091

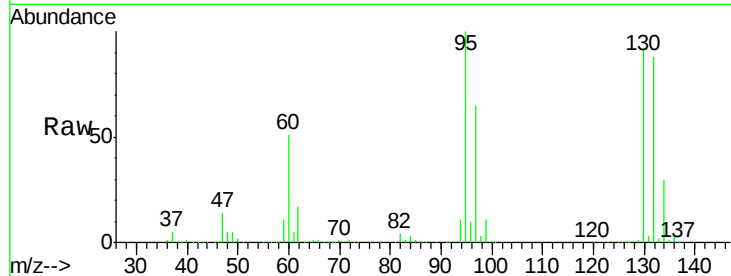
Ion Ratio Lower Upper

130 100

95 108.6 89.8 134.8

132 95.7 76.6 115.0

97 70.9 58.6 88.0

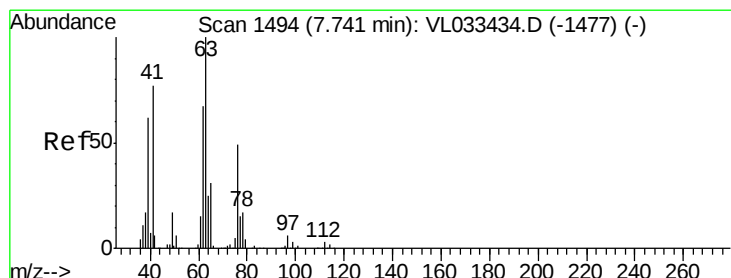
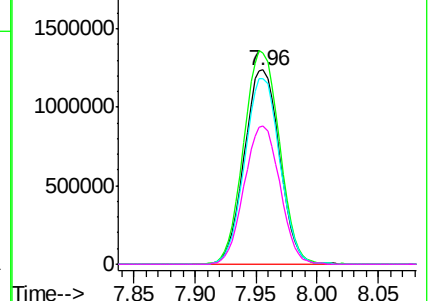
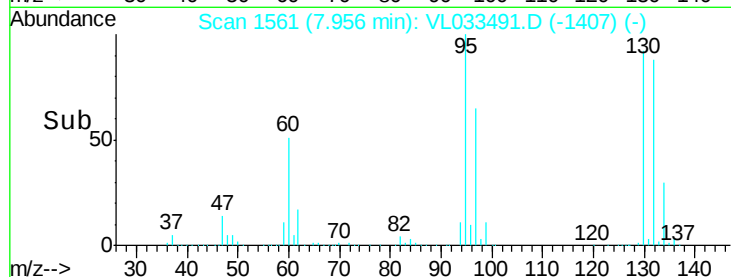


Abundance Ion 130.00 (129.70 to 130.70): V

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: 0.126 ppbv

RT: 7.95 min Scan# 1558

Delta R.T. 0.21 min

Lab File: VL033491.D

Acq: 28 Mar 2019 6:15

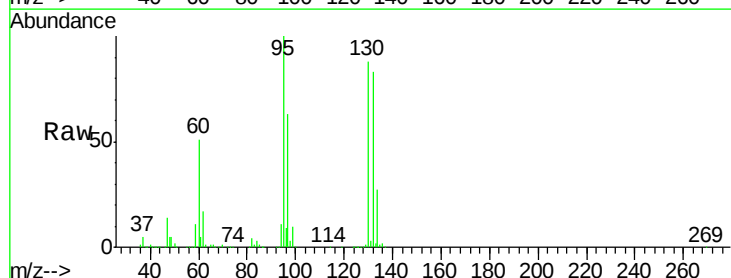
Tgt Ion: 63 Resp: 7976

Ion Ratio Lower Upper

63 100

41 6.8 61.2 91.8#

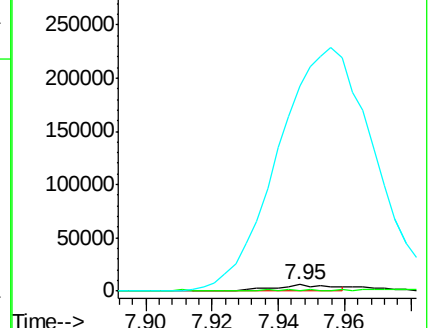
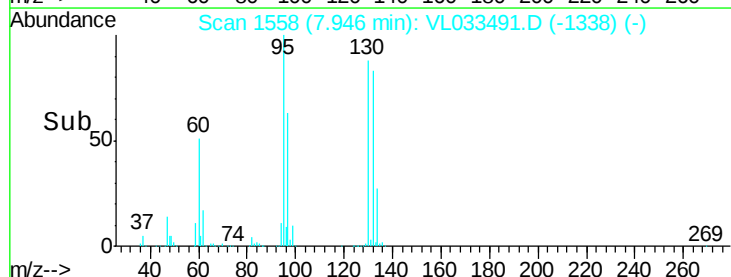
62 3220.1 54.0 81.0#

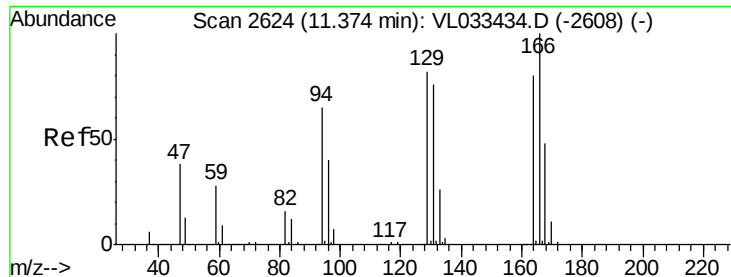


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#52

Tetrachloroethene

Concen: 2.627 ppbv

RT: 11.36 min Scan# 2621

Delta R.T. -0.01 min

Lab File: VL033491.D

Acq: 28 Mar 2019 6:15

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 160015

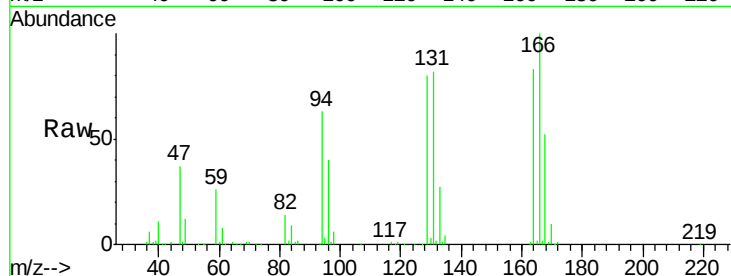
Ion Ratio Lower Upper

164 100

166 121.0 99.5 149.3

129 97.0 81.4 122.2

131 99.0 75.6 113.4

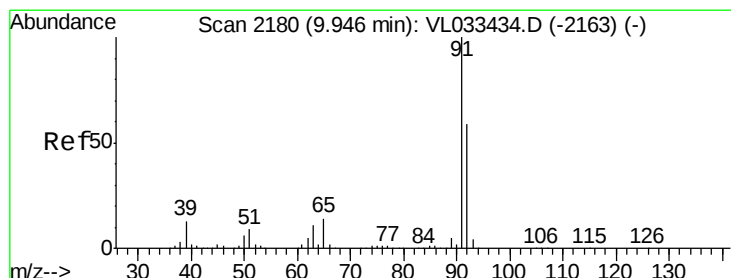
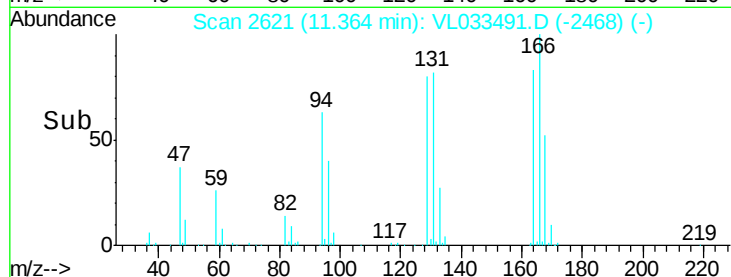
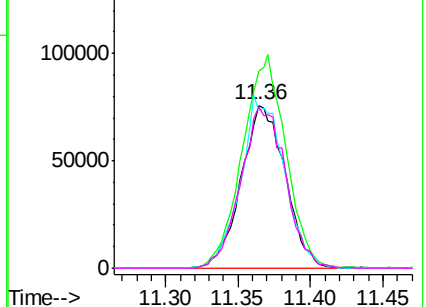


Abundance Ion 163.90 (163.60 to 164.60): V

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: 1.203 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033491.D

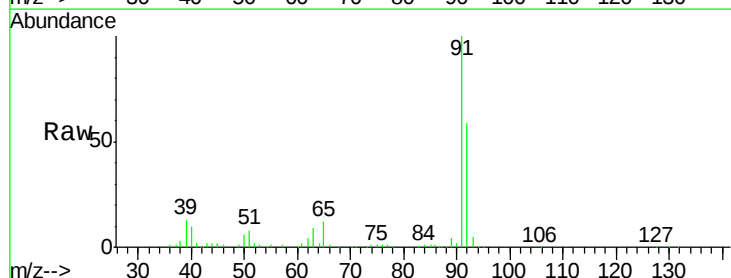
Acq: 28 Mar 2019 6:15

Tgt Ion: 91 Resp: 225744

Ion Ratio Lower Upper

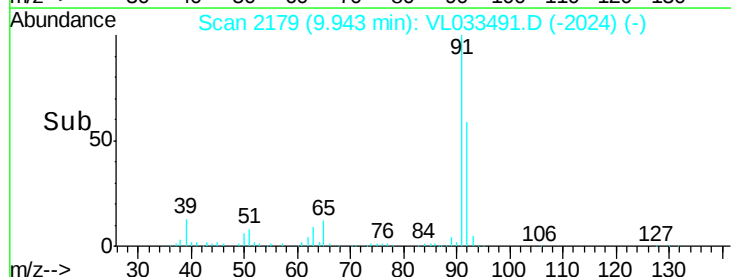
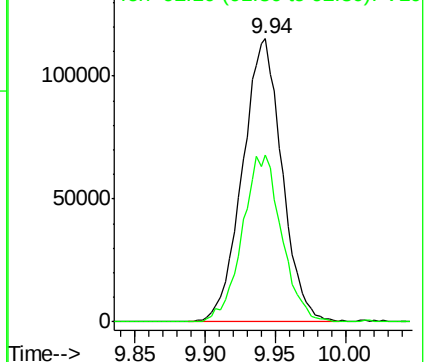
91 100

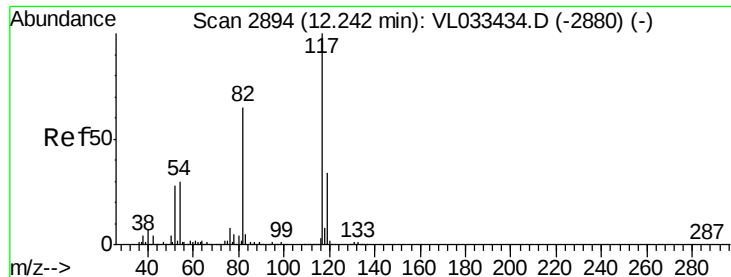
92 58.7 47.4 71.0



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: 12.23 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL033491.D

Acq: 28 Mar 2019 6:15

Instrument :

MSVOA_L

ClientSampled :

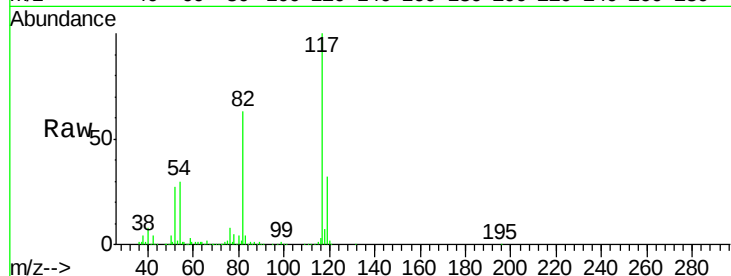
Tot Ion:117 Resp: 1884023

Ion Ratio Lower Upper

117 100

82 63.7 51.5 77.3

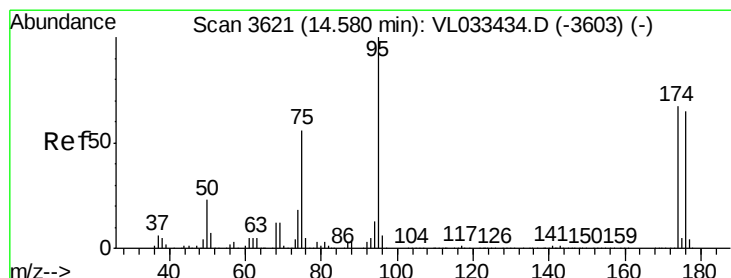
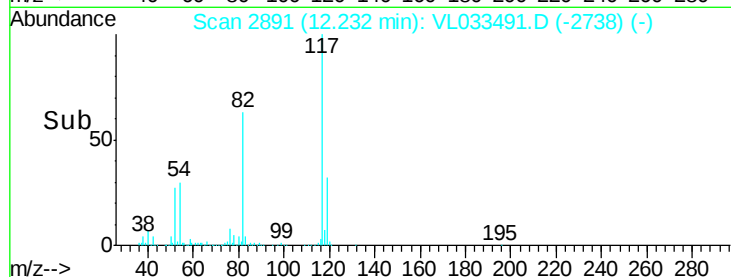
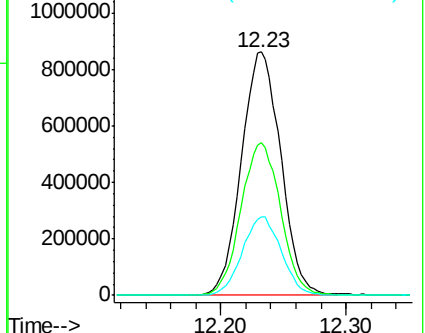
119 32.1 25.5 38.3



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



#68

1-Bromo-4-Fluorobenzene

Concen: 9.659 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. -0.01 min

Lab File: VL033491.D

Acq: 28 Mar 2019 6:15

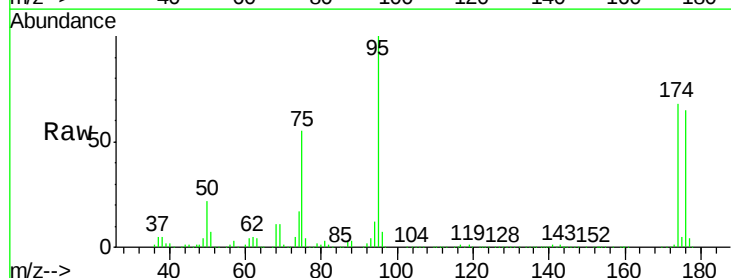
Tgt Ion: 95 Resp: 1426577

Ion Ratio Lower Upper

95 100

174 67.8 52.9 79.3

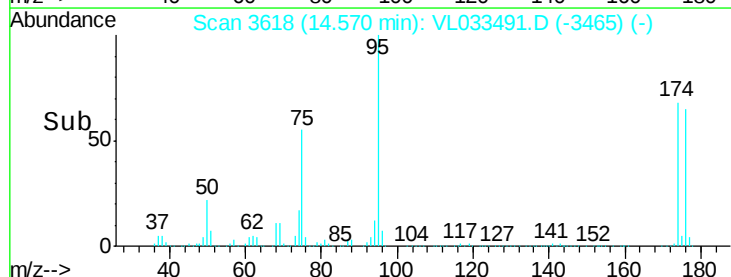
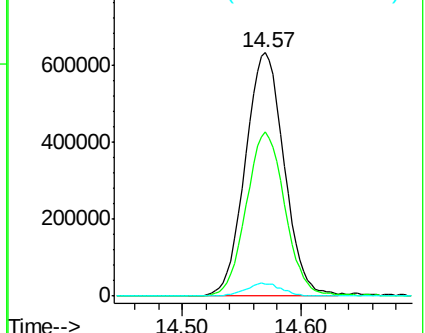
175 5.0 3.8 5.6

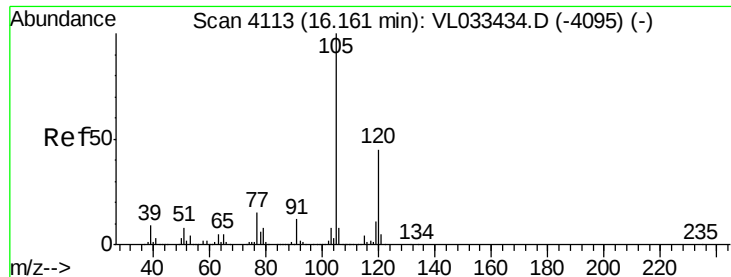


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

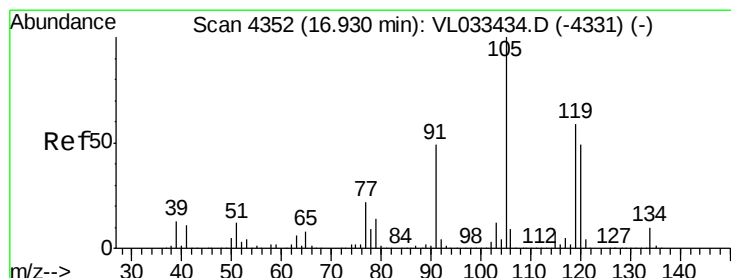
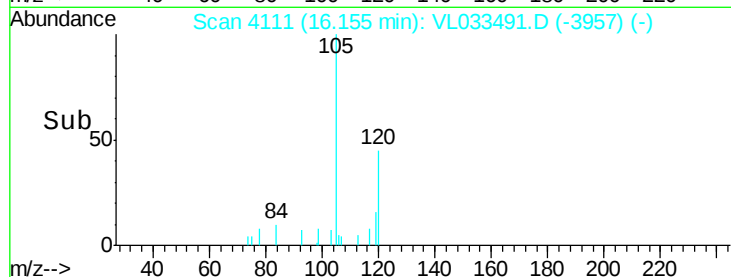
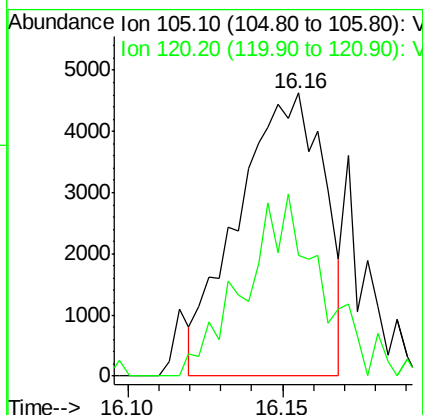
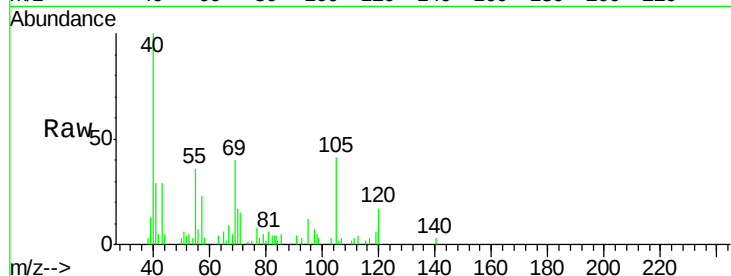




#73
 1,3,5-Trimethylbenzene
 Concen: 0.038 ppbv
 RT: 16.16 min Scan# 4111
 Delta R.T. -0.01 min
 Lab File: VL033491.D
 Acq: 28 Mar 2019 6:15

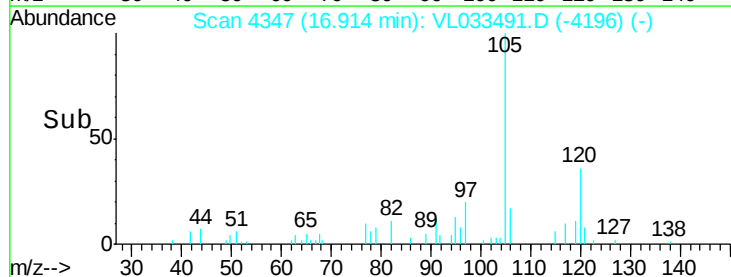
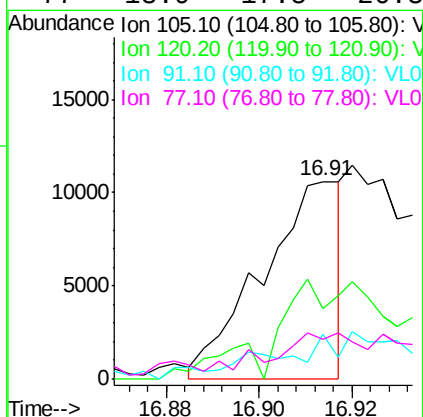
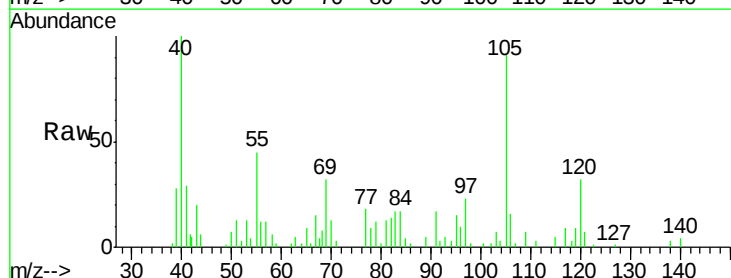
Instrument :
 MSVOA_L
 ClientSampled :

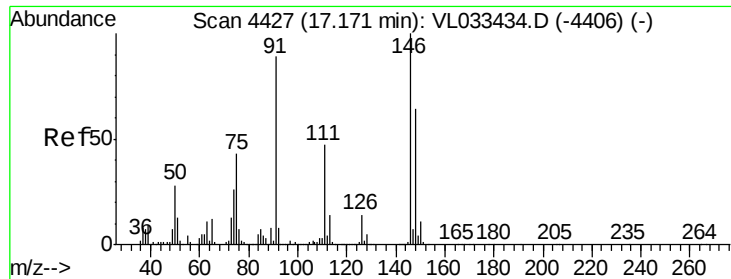
Tot Ion:105 Resp: 8938
 Ion Ratio Lower Upper
 105 100
 120 42.6 35.7 53.5



#74
 1,2,4-Trimethylbenzene
 Concen: 0.050 ppbv
 RT: 16.91 min Scan# 4347
 Delta R.T. -0.02 min
 Lab File: VL033491.D
 Acq: 28 Mar 2019 6:15

Tgt Ion:105 Resp: 12536
 Ion Ratio Lower Upper
 105 100
 120 41.5 39.0 58.6
 91 18.1 40.0 60.0#
 77 13.9 17.5 26.3#





#75

1,3-Dichlorobenzene

Concen: 0.470 ppbv

RT: 17.30 min Scan# 4466

Delta R.T. 0.13 min

Lab File: VL033491.D

Acq: 28 Mar 2019 6:15

Instrument :

MSVOA_L

ClientSampleId :

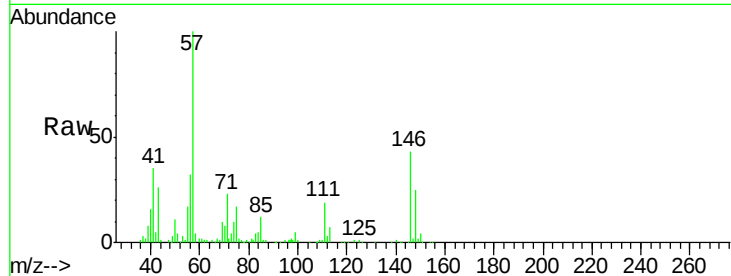
Tot Ion:146 Resp: 72819

Ion Ratio Lower Upper

146 100

111 49.8 22.9 68.8

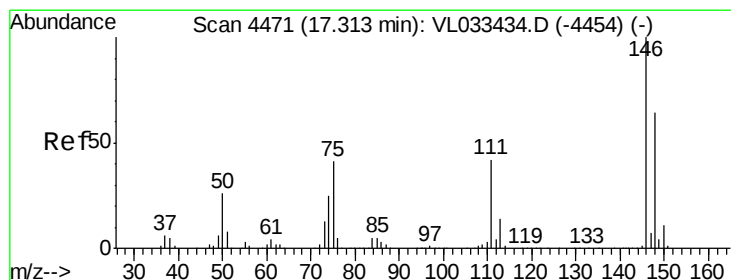
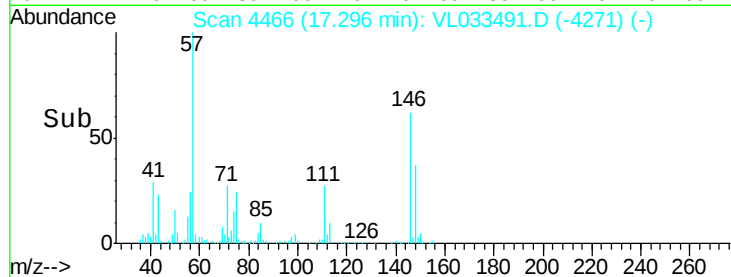
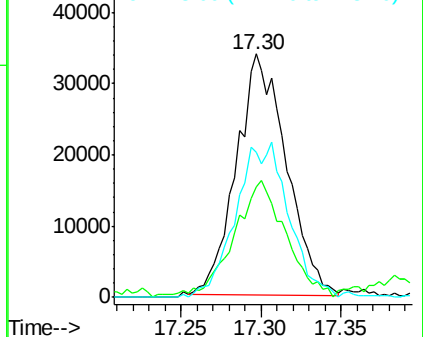
148 68.4 32.0 96.2



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: 0.483 ppbv

RT: 17.30 min Scan# 4466

Delta R.T. -0.02 min

Lab File: VL033491.D

Acq: 28 Mar 2019 6:15

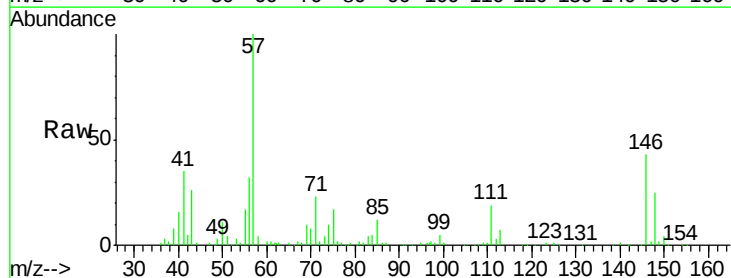
Tgt Ion:146 Resp: 72819

Ion Ratio Lower Upper

146 100

111 50.9 21.7 65.1

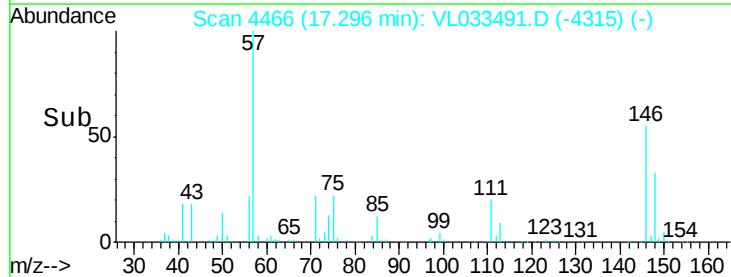
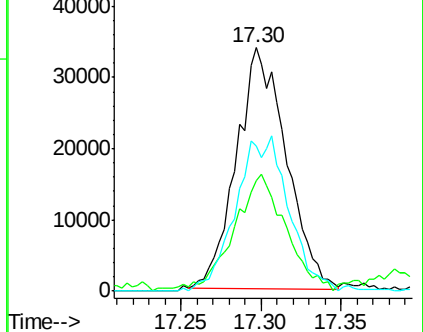
148 68.4 32.0 96.2

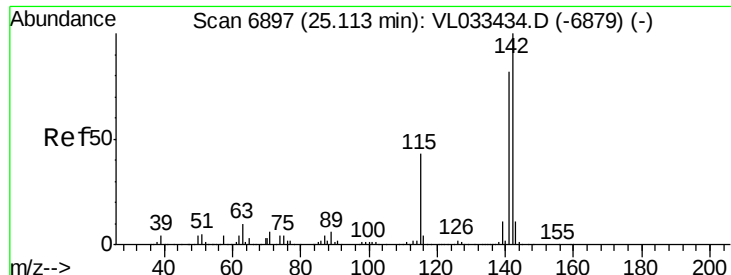


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

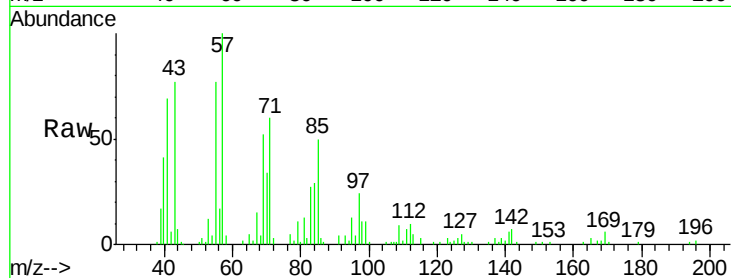




#80
 Naphthalene, 2-methyl-
 Concen: 0.062 ppbv
 RT: 25.10 min Scan# 6894
 Delta R.T. -0.01 min
 Lab File: VL033491.D
 Acq: 28 Mar 2019 6:15

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 142 Resp: 4478
 Ion Ratio Lower Upper
 142 100
 141 144.5 66.6 99.8#
 115 52.1 34.4 51.6#



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

