

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061319\
 Data File : VL033908.D
 Acq On : 13 Jun 2019 22:08
 Operator : SY/AP
 Sample : K3357-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 14 05:35:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 08:53:27 2019
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	889060	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.29	114	2092165	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2373366	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.56	95	1776146	9.11	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.10%

Target Compounds

					Ovalue
3) Chlorodifluoromethane	3.01	51	44171	0.422 ppbv	# 81
4) Chloromethane	3.16	50	35836	0.600 ppbv	# 83
7) Chloroethane	3.59	64	12631	0.577 ppbv	# 78
9) Propene	3.03	41	391759	10.003 ppbv	97
10) Heptane	8.23	43	310460	3.136 ppbv	97
11) Trichlorofluoromethane	4.00	101	52867	0.284 ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.55	101	6947	0.055 ppbv	# 20
13) Ethanol	3.66	45	632134	49.611 ppbv	96
15) Acetone	4.03	43	900054	6.941 ppbv	# 1
16) 1,3-Butadiene	3.38	39	87826	1.780 ppbv	# 6
17) tert-Butyl alcohol	4.36	59	3376822	33.314 ppbv	98
19) Isopropyl Alcohol	4.03	45	3511710	47.408 ppbv	# 94
20) Methylene Chloride	4.42	84	20926	0.414 ppbv	# 84
21) Allyl Chloride	4.42	41	17705	0.240 ppbv	# 18
23) Vinyl Acetate	5.15	43	615095	4.081 ppbv	# 93
25) Ethyl Acetate	5.77	43	266093	1.348 ppbv	# 92
26) Hexane	5.77	57	255772	2.845 ppbv	# 32
27) Carbon Disulfide	4.61	76	622819	4.986 ppbv	98
29) Chloroform	5.85	83	47114	0.306 ppbv	94
30) Cyclohexane	7.24	84	50340	0.792 ppbv	# 85
34) 2-Butanone	5.32	43	6919439	58.625 ppbv	95
35) Carbon Tetrachloride	7.13	117	7361	0.046 ppbv	# 63
36) Benzene	7.00	78	424334	2.655 ppbv	97
37) 1,2-Dichloroethane	6.41	62	5575	0.047 ppbv	# 44
38) Trichloroethene	7.96	130	14623	0.235 ppbv	90
39) 1,2-Dichloropropane	7.29	63	540863	8.769 ppbv	# 25
41) Tetrahydrofuran	6.14	42	592066	9.883 ppbv	98
42) Bromodichloromethane	7.91	83	20171	0.128 ppbv	# 40
43) Methyl Methacrylate	8.17	69	26216	0.439 ppbv	# 1
44) 2,2,4-Trimethylpentane	7.98	57	508007	1.787 ppbv	# 81
50) 4-Methyl-2-Pentanone	8.86	43	227795	1.294 ppbv	97
51) 2-Hexanone	10.25	43	951621	6.924 ppbv	# 98
52) Tetrachloroethene	11.36	164	326264	5.802 ppbv	97
53) Toluene	9.94	91	1372108	7.758 ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.52	131	1490237	14.374 ppbv	# 36
58) Ethyl Benzene	12.85	91	217454	0.813 ppbv	95
59) m/p-Xylene	13.11	91	542715	2.230 ppbv	100
60) o-Xylene	13.83	91	277921	1.106 ppbv	100
61) Styrene	13.67	104	127866	0.786 ppbv	96
62) Isopropylbenzene	14.81	105	181174	0.535 ppbv	99
64) n-propylbenzene	15.70	120	188630	2.175 ppbv	96

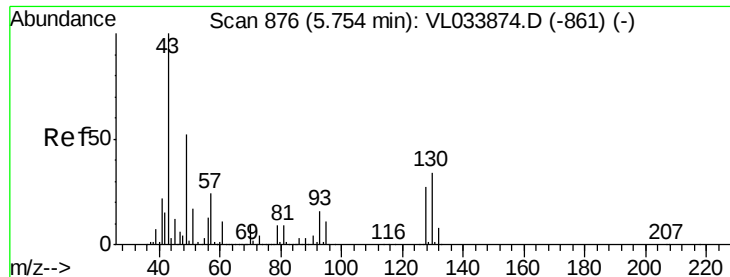
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061319\
 Data File : VL033908.D
 Acq On : 13 Jun 2019 22:08
 Operator : SY/AP
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 08:53:27 2019
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) tert-Butylbenzene	16.91	119	191512	0.611	ppbv #	65
66) Benzyl Chloride	17.35	91	21495	0.135	ppbv #	69
67) sec-Butylbenzene	17.44	105	28230	0.064	ppbv #	81
69) p-Isopropyltoluene	17.80	119	30595	0.084	ppbv #	54
70) n-Butylbenzene	18.70	91	26339	0.066	ppbv #	55
71) 2-Chlorotoluene	15.71	91	920440	3.690	ppbv #	45
72) 4-Ethyltoluene	15.98	105	1090899	3.816	ppbv	99
73) 1,3,5-Trimethylbenzene	16.14	105	812255	2.884	ppbv	97
74) 1,2,4-Trimethylbenzene	16.91	105	1790521	5.516	ppbv #	75
79) Naphthalene	22.40	128	17601	0.068	ppbv #	95
80) Naphthalene,2-methyl-	25.10	142	6661	0.064	ppbv #	76

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.02 min

Lab File: VL033908.D

Acq: 13 Jun 2019 22:08

Instrument :

MSVOA_L

ClientSampleId :

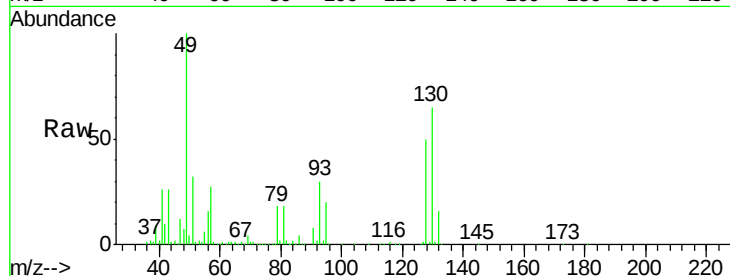
Tot Ion: 49 Resp: 889060

Ion Ratio Lower Upper

49 100

128 51.1 25.5 76.5

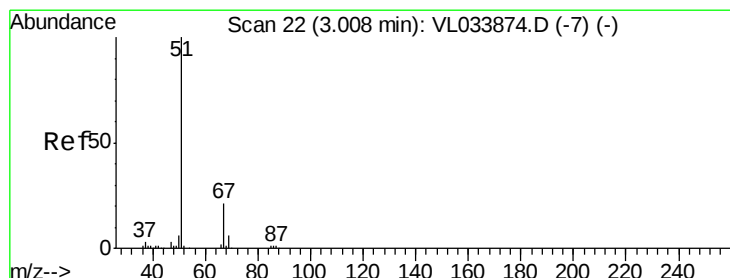
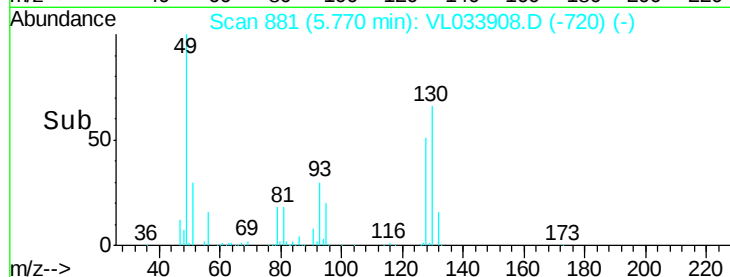
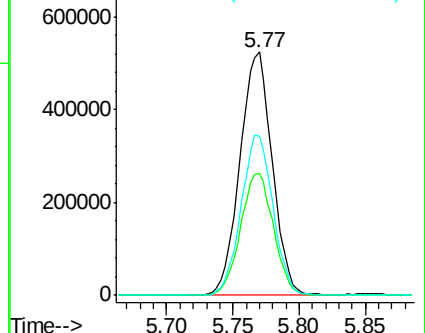
130 65.3 32.5 97.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.422 ppbv

RT: 3.01 min Scan# 22

Delta R.T. 0.00 min

Lab File: VL033908.D

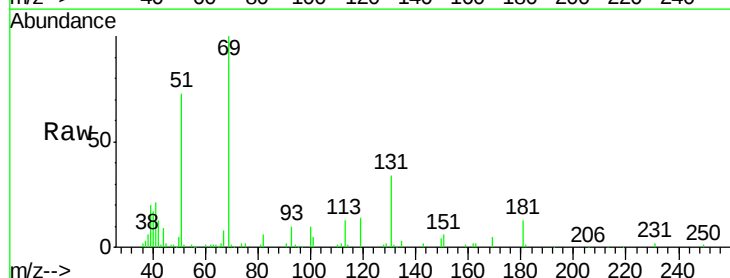
Acq: 13 Jun 2019 22:08

Tgt Ion: 51 Resp: 44171

Ion Ratio Lower Upper

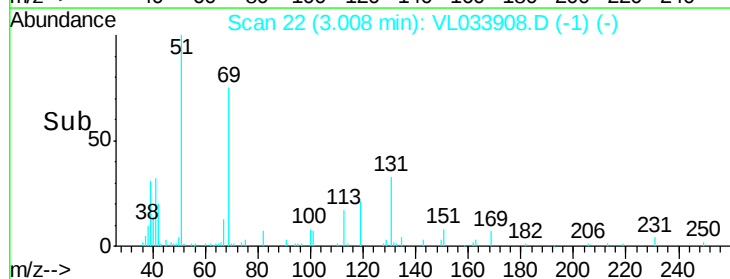
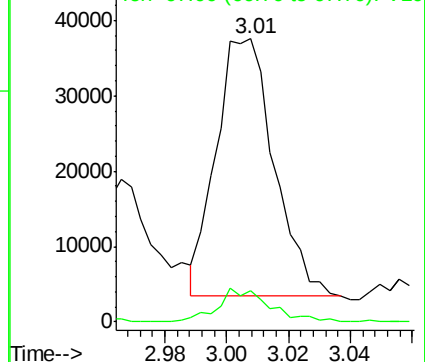
51 100

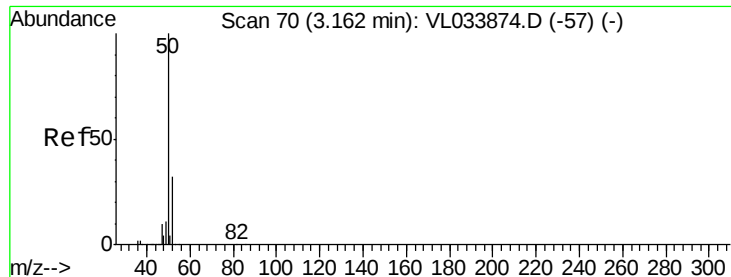
67 11.7 16.4 24.6#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.600 ppbv

RT: 3.16 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL033908.D

Acq: 13 Jun 2019 22:08

Instrument :

MSVOA_L

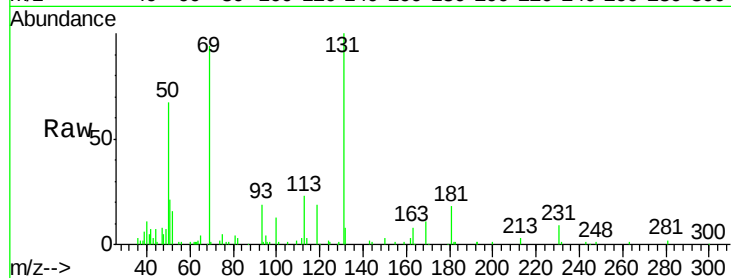
ClientSampleId :

Tot Ion: 50 Resp: 35836

Ion Ratio Lower Upper

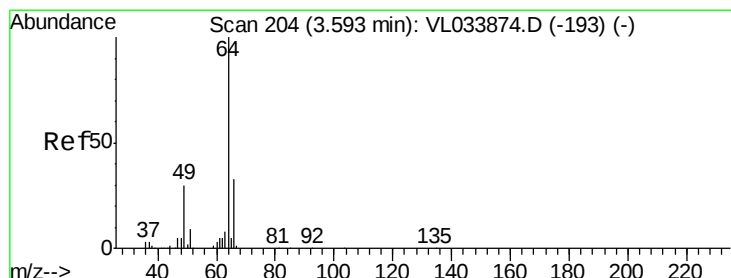
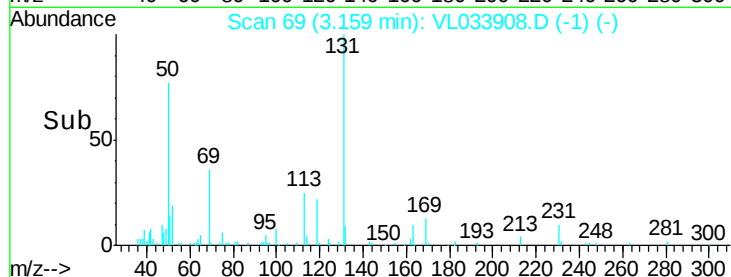
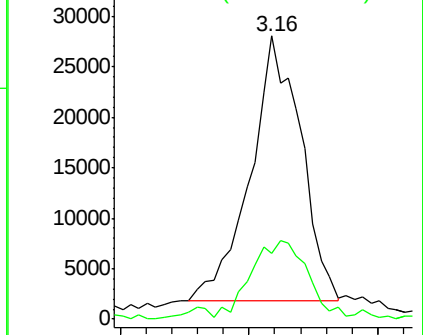
50 100

52 22.2 25.4 38.0#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#7

Chloroethane

Concen: 0.577 ppbv

RT: 3.59 min Scan# 203

Delta R.T. -0.00 min

Lab File: VL033908.D

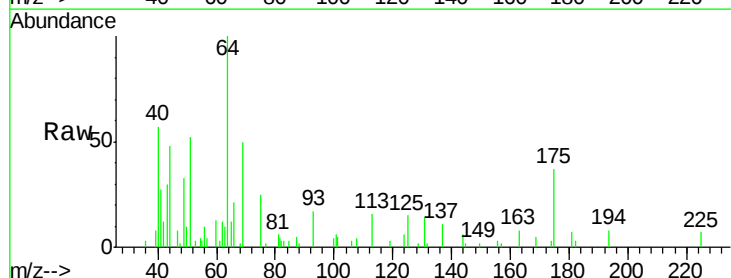
Acq: 13 Jun 2019 22:08

Tgt Ion: 64 Resp: 12631

Ion Ratio Lower Upper

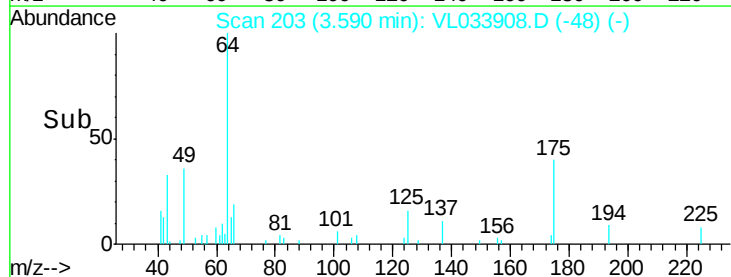
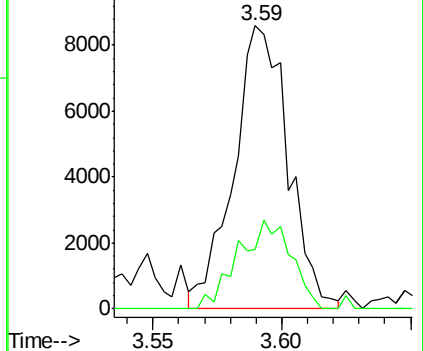
64 100

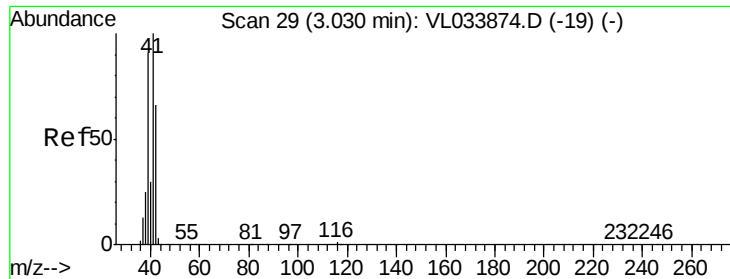
66 21.0 26.7 40.1#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#9

Propene

Concen: 10.003 ppbv

RT: 3.03 min Scan# 28

Delta R.T. -0.00 min

Lab File: VL033908.D

Acq: 13 Jun 2019 22:08

Instrument :

MSVOA_L

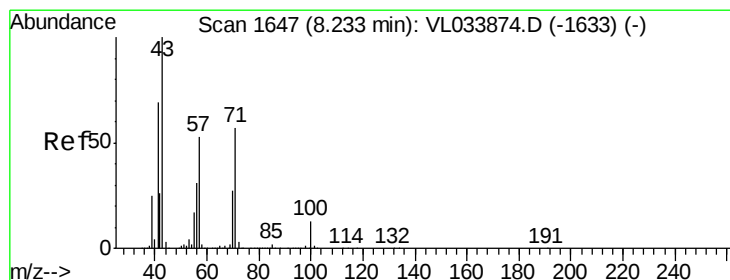
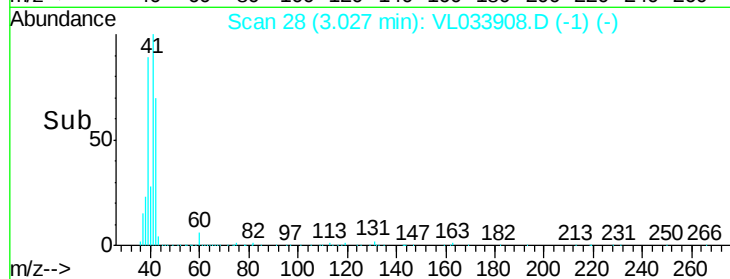
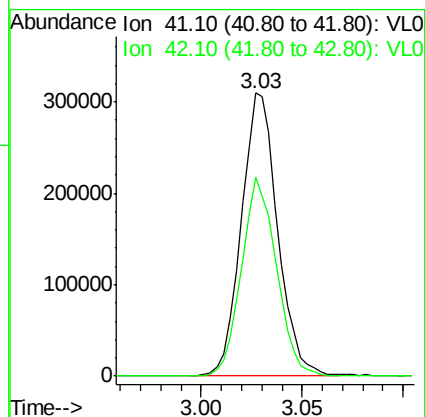
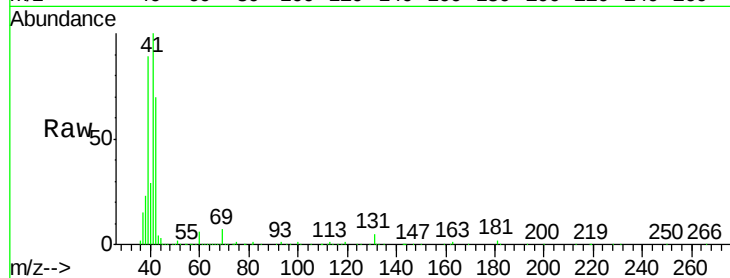
ClientSampleId :

Tot Ion: 41 Resp: 391759

Ion Ratio Lower Upper

41 100

42 67.9 56.3 84.5



#10

Heptane

Concen: 3.136 ppbv

RT: 8.23 min Scan# 1647

Delta R.T. 0.00 min

Lab File: VL033908.D

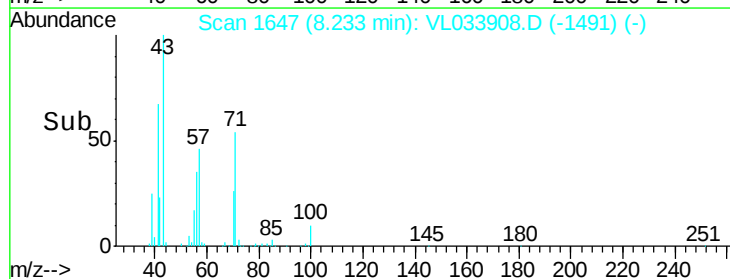
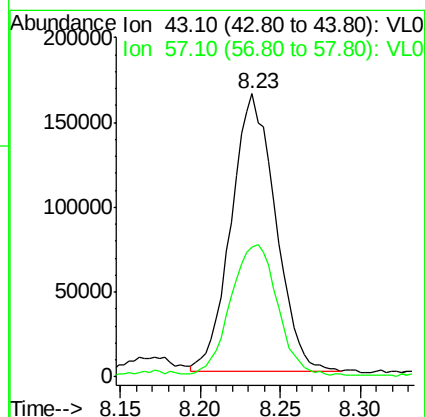
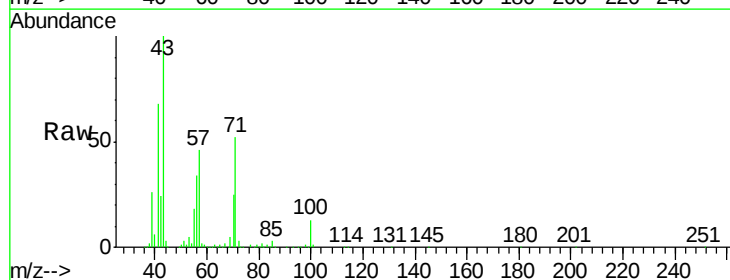
Acq: 13 Jun 2019 22:08

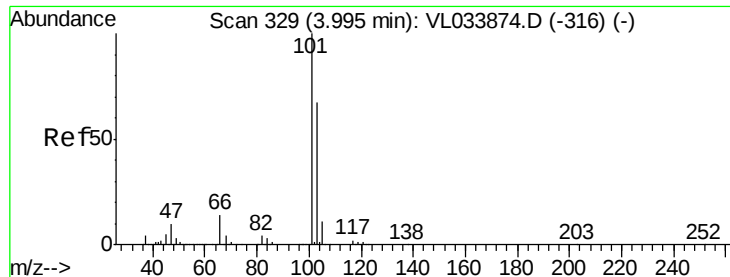
Tgt Ion: 43 Resp: 310460

Ion Ratio Lower Upper

43 100

57 49.7 41.7 62.5





#11

Trichlorofluoromethane

Concen: 0.284 ppbv

RT: 4.00 min Scan# 330

Delta R.T. 0.00 min

Lab File: VL033908.D

Acq: 13 Jun 2019 22:08

Instrument :

MSVOA_L

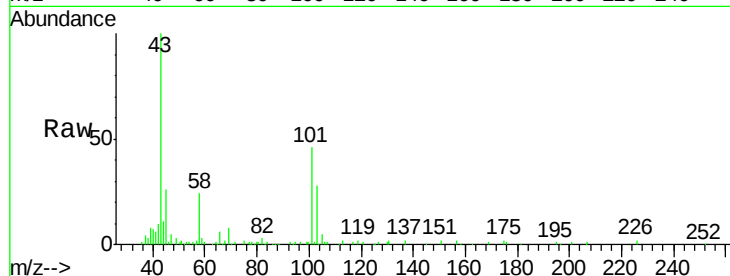
ClientSampleId :

Tot Ion:101 Resp: 52867

Ion Ratio Lower Upper

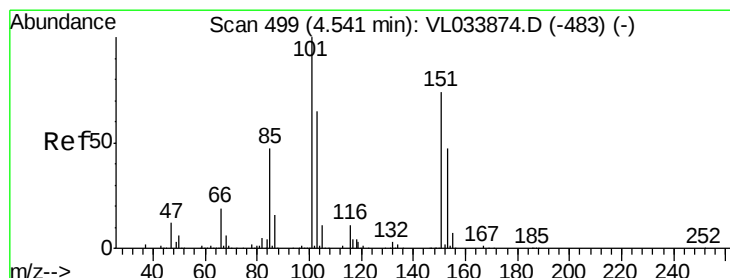
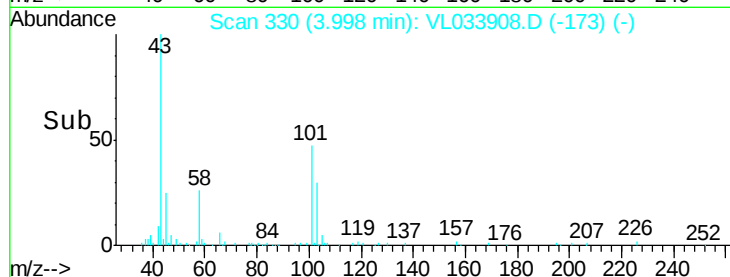
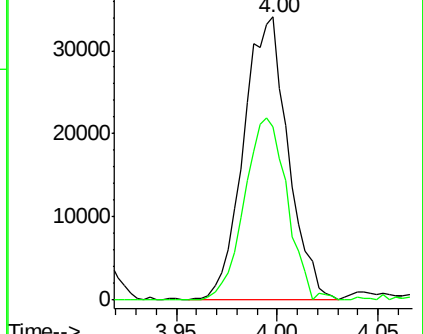
101 100

103 62.2 53.6 80.4



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: 0.055 ppbv

RT: 4.55 min Scan# 501

Delta R.T. 0.01 min

Lab File: VL033908.D

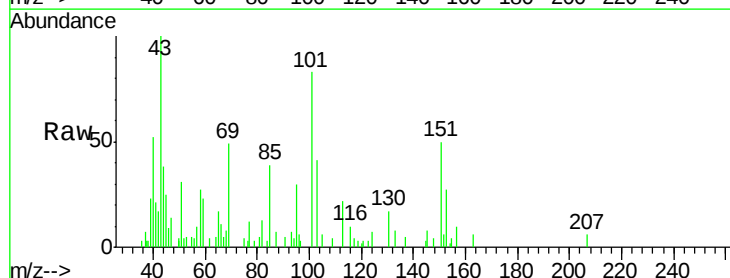
Acq: 13 Jun 2019 22:08

Tgt Ion:101 Resp: 6947

Ion Ratio Lower Upper

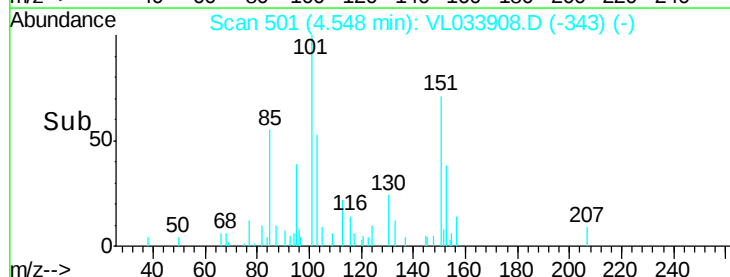
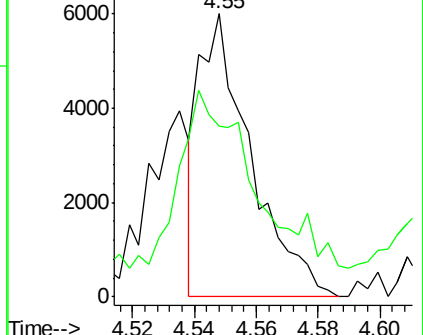
101 100

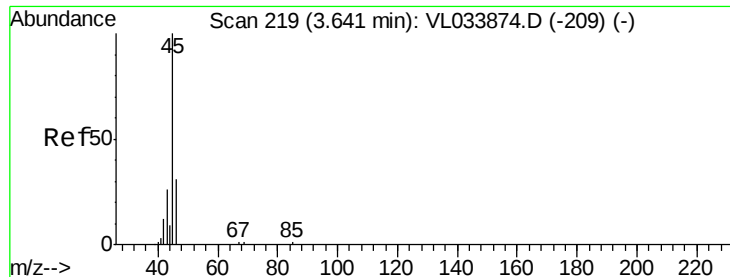
151 140.8 58.6 87.8#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

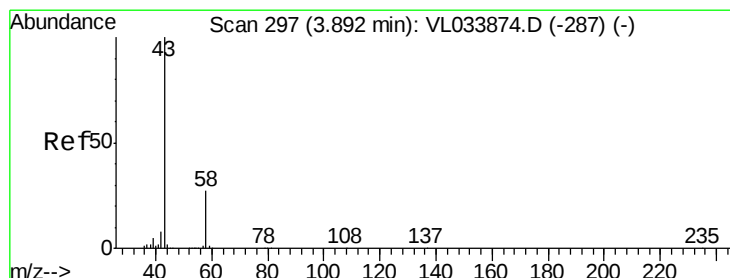
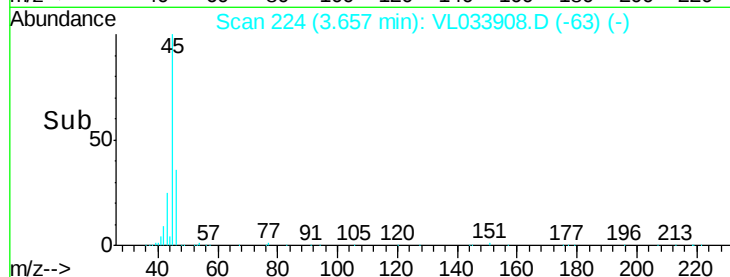
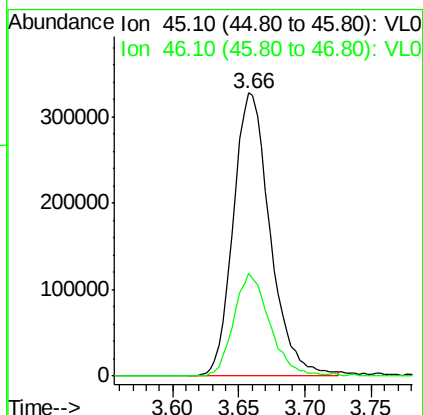
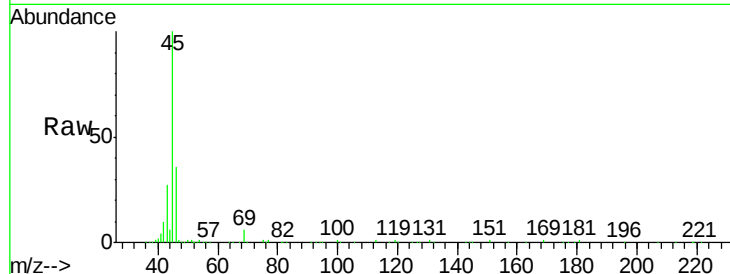




#13
Ethanol
Concen: 49.611 ppbv
RT: 3.66 min Scan# 224
Delta R.T. 0.02 min
Lab File: VL033908.D
Acq: 13 Jun 2019 22:08

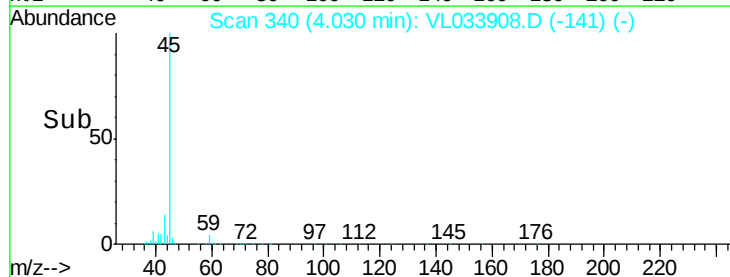
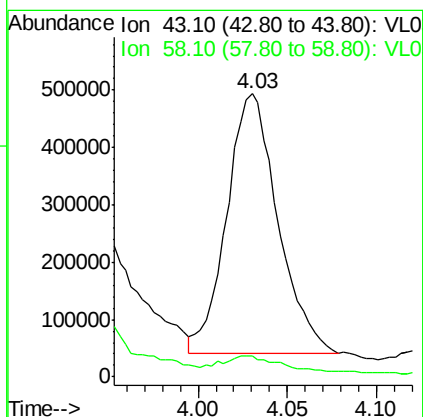
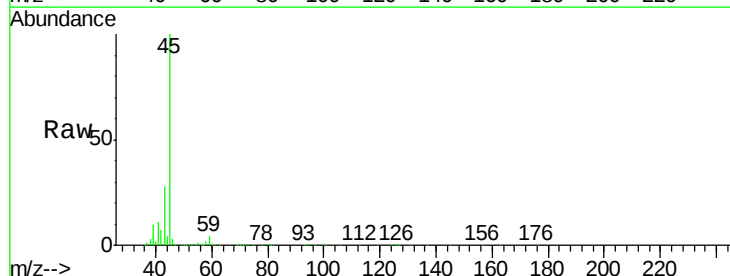
Instrument :
MSVOA_L
ClientSampleId :

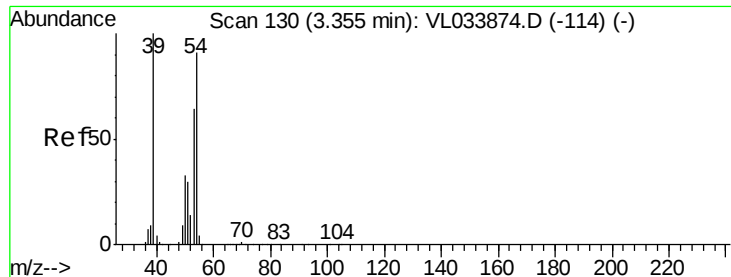
Tot Ion: 45 Resp: 632134
Ion Ratio Lower Upper
45 100
46 36.0 15.3 61.1



#15
Acetone
Concen: 6.941 ppbv
RT: 4.03 min Scan# 340
Delta R.T. 0.14 min
Lab File: VL033908.D
Acq: 13 Jun 2019 22:08

Tgt Ion: 43 Resp: 900054
Ion Ratio Lower Upper
43 100
58 1805.1 21.3 31.9#

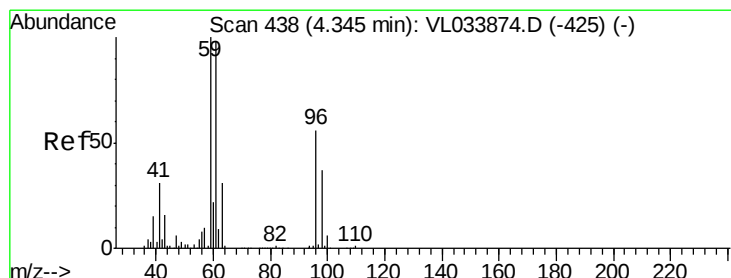
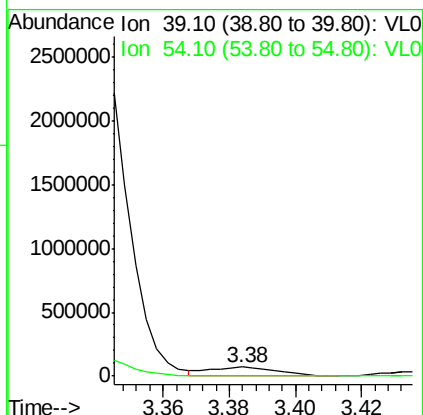
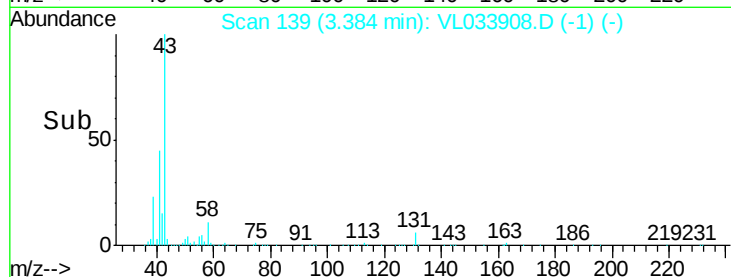
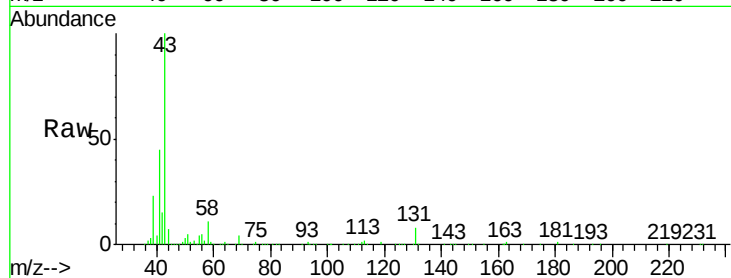




#16
 1,3-Butadiene
 Concen: 1.780 ppbv
 RT: 3.38 min Scan# 139
 Delta R.T. 0.03 min
 Lab File: VL033908.D
 Acq: 13 Jun 2019 22:08

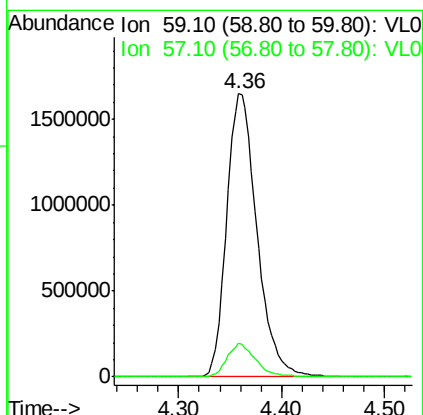
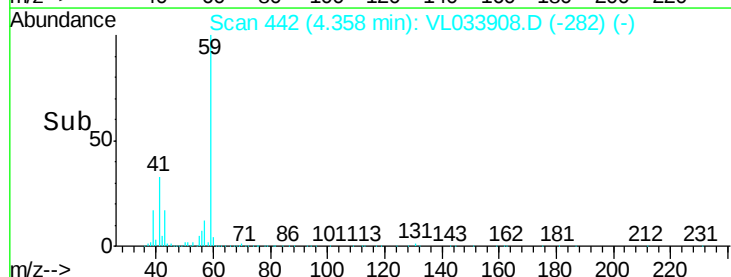
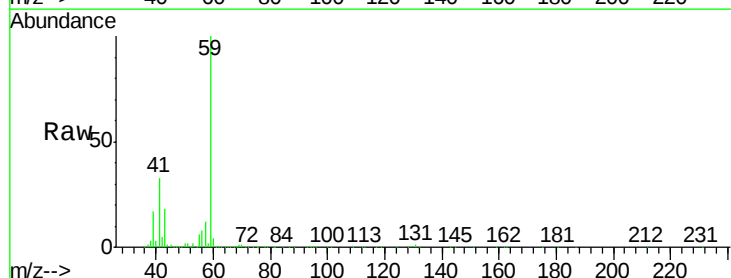
Instrument :
 MSVOA_L
 ClientSampleId :

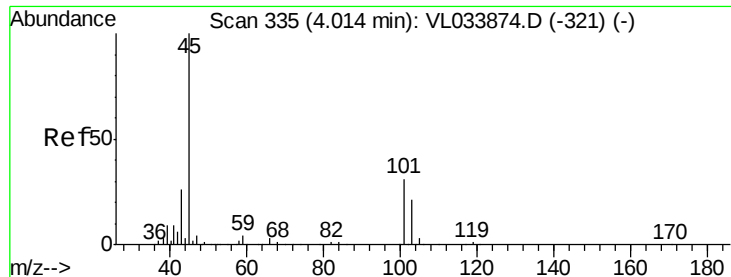
Tot Ion: 39 Resp: 87826
 Ion Ratio Lower Upper
 39 100
 54 0.0 68.6 103.0#



#17
 tert-Butyl alcohol
 Concen: 33.314 ppbv
 RT: 4.36 min Scan# 442
 Delta R.T. 0.01 min
 Lab File: VL033908.D
 Acq: 13 Jun 2019 22:08

Tgt Ion: 59 Resp: 3376822
 Ion Ratio Lower Upper
 59 100
 57 11.2 8.4 12.6





#19

Isopropyl Alcohol

Concen: 47.408 ppbv

RT: 4.03 min Scan# 340

Delta R.T. 0.02 min

Lab File: VL033908.D

Acq: 13 Jun 2019 22:08

Instrument :

MSVOA_L

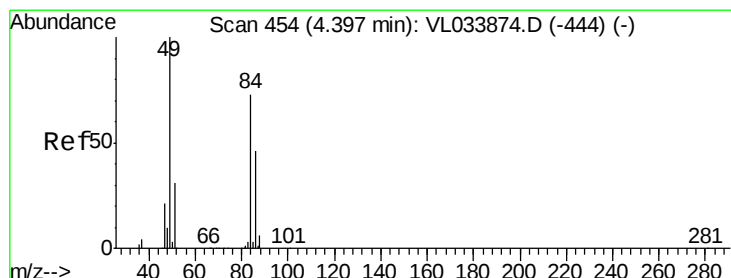
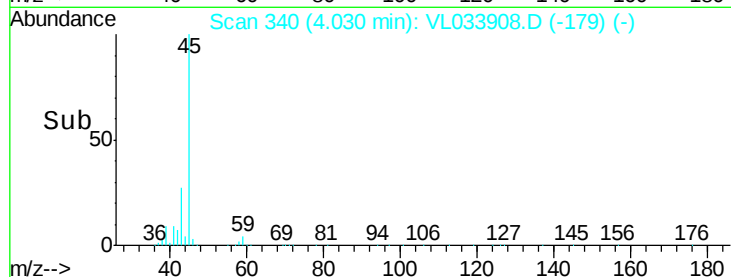
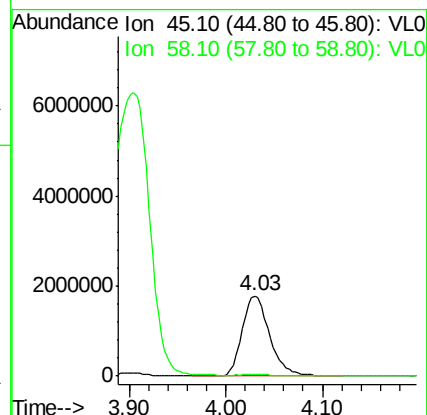
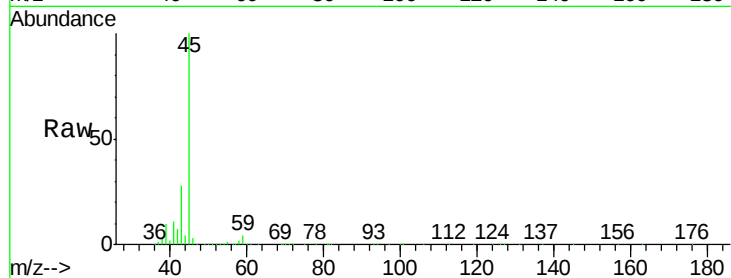
ClientSampleId :

Tot Ion: 45 Resp: 3511710

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.6#



#20

Methylene Chloride

Concen: 0.414 ppbv

RT: 4.42 min Scan# 462

Delta R.T. 0.03 min

Lab File: VL033908.D

Acq: 13 Jun 2019 22:08

Tgt Ion: 84 Resp: 20926

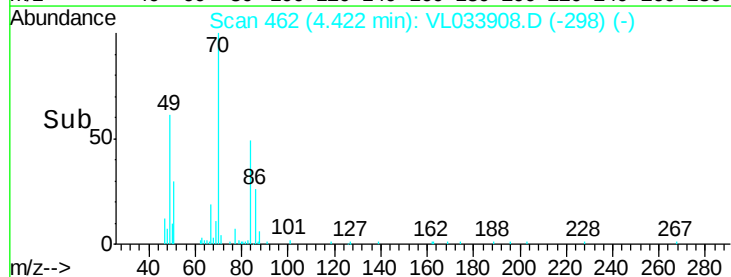
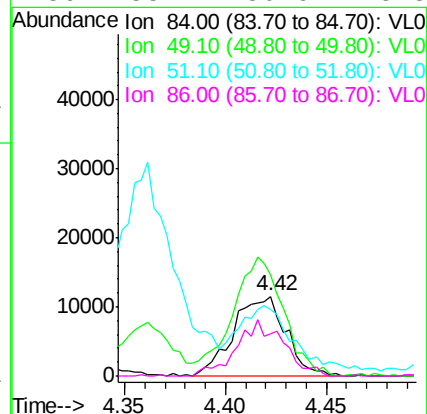
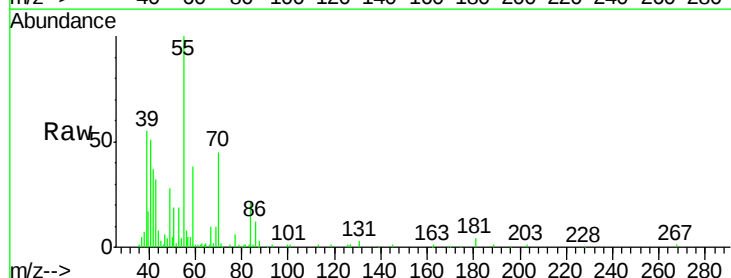
Ion Ratio Lower Upper

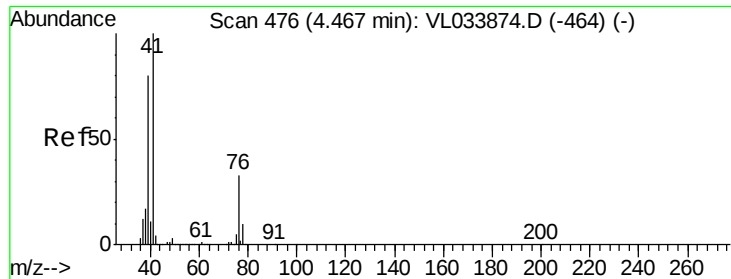
84 100

49 126.6 110.0 165.0

51 71.0 34.6 51.8#

86 53.1 50.6 75.8





#21

Allvl Chloride

Concen: 0.240 ppbv

RT: 4.42 min Scan# 462

Delta R.T. -0.04 min

Lab File: VL033908.D

Acq: 13 Jun 2019 22:08

Instrument :
MSVOA_L
ClientSampleId :

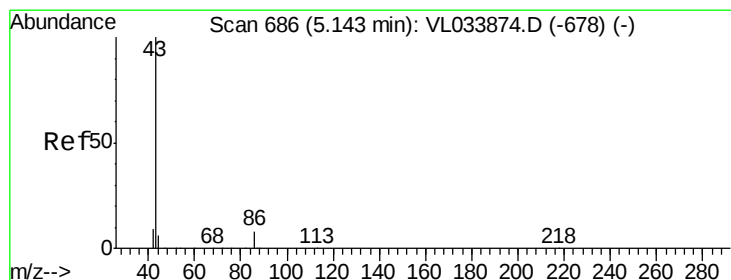
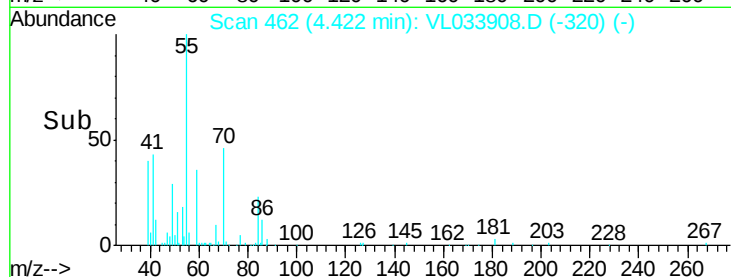
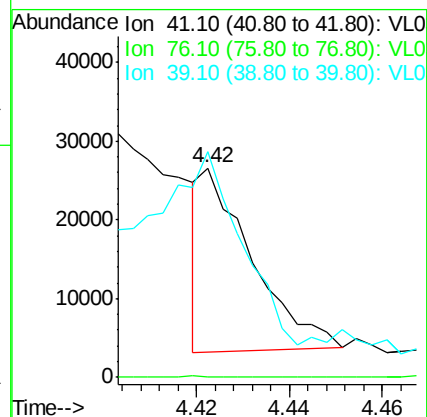
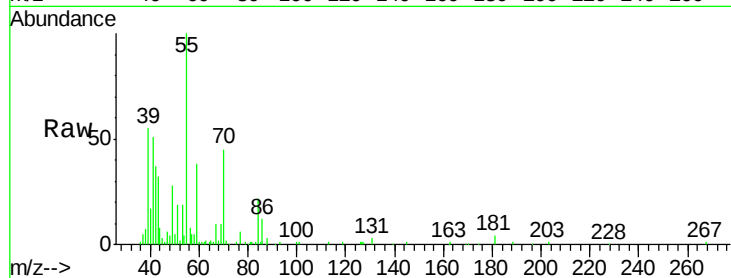
Tot Ion: 41 Resp: 17705

Ion Ratio Lower Upper

41 100

76 0.0 26.6 39.8#

39 0.0 65.2 97.8#



#23

Vinyl Acetate

Concen: 4.081 ppbv

RT: 5.15 min Scan# 688

Delta R.T. 0.01 min

Lab File: VL033908.D

Acq: 13 Jun 2019 22:08

Tgt Ion: 43 Resp: 615095

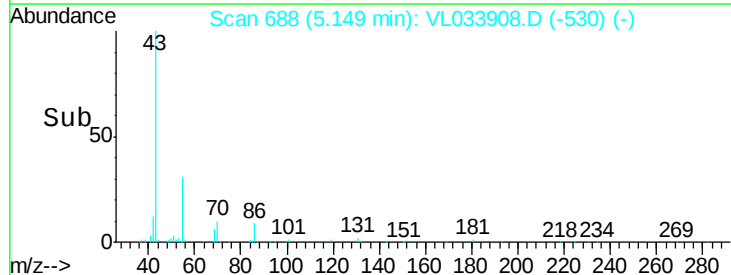
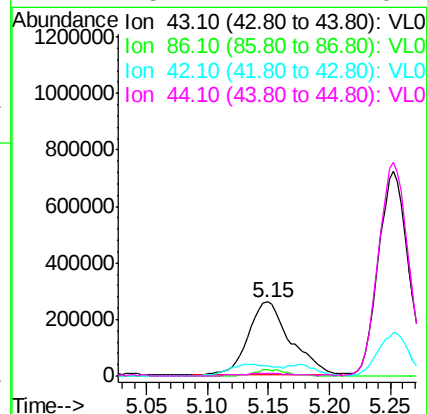
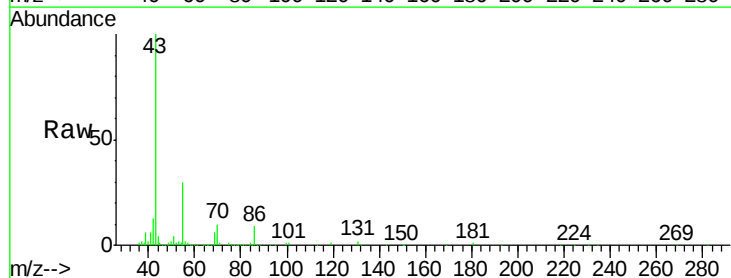
Ion Ratio Lower Upper

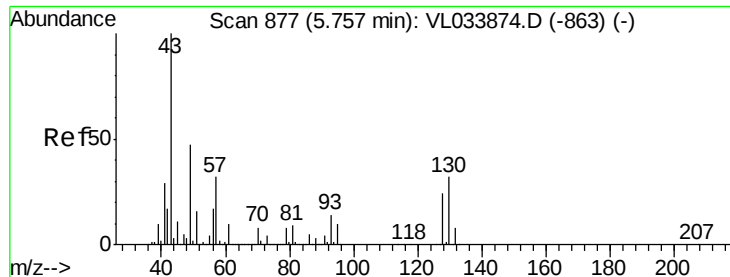
43 100

86 9.1 5.8 8.8#

42 12.9 7.8 11.8#

44 3.2 4.2 6.4#

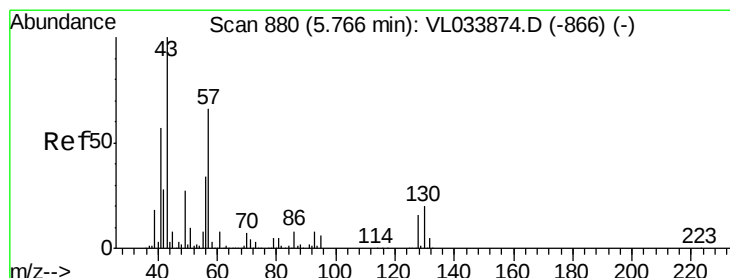
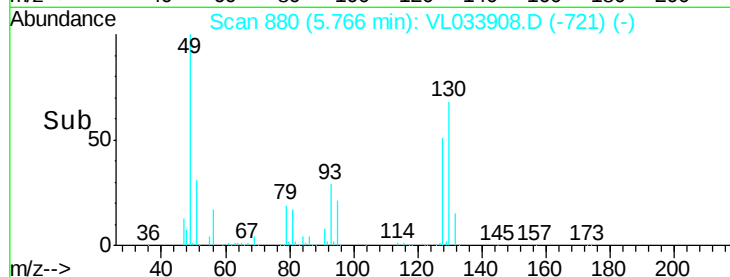
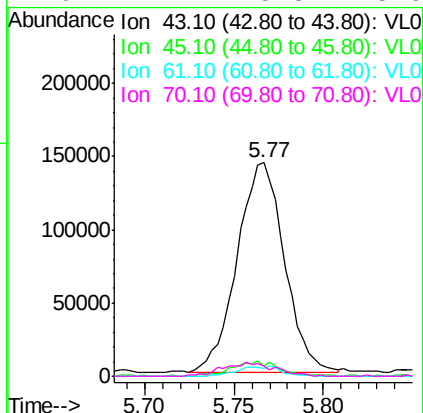
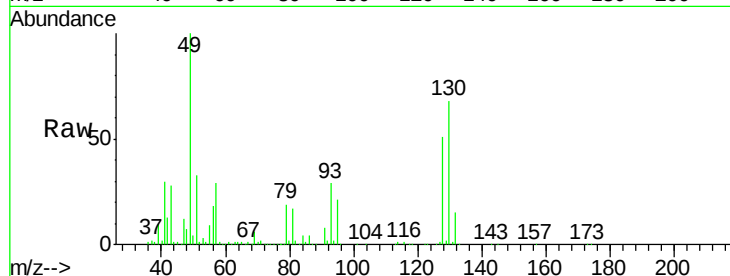




#25
Ethyl Acetate
Concen: 1.348 ppbv
RT: 5.77 min Scan# 880
Delta R.T. 0.01 min
Lab File: VL033908.D
Acq: 13 Jun 2019 22:08

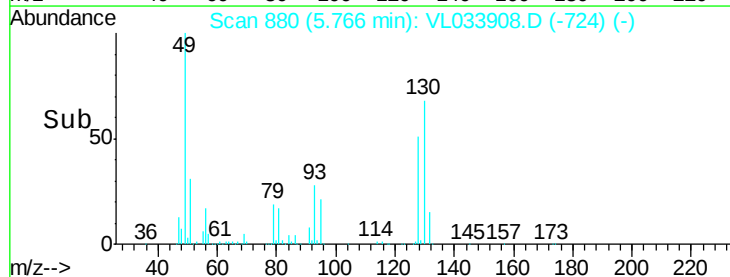
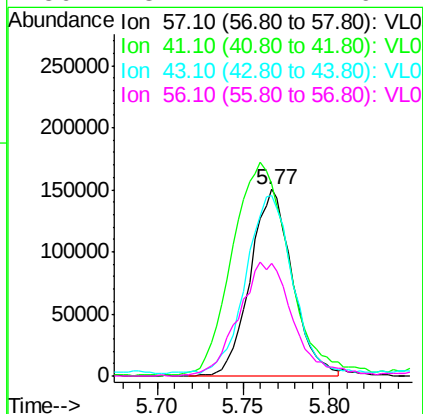
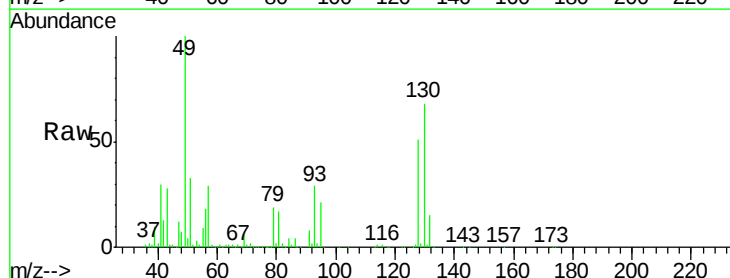
Instrument :
MSVOA_L
ClientSampleId :

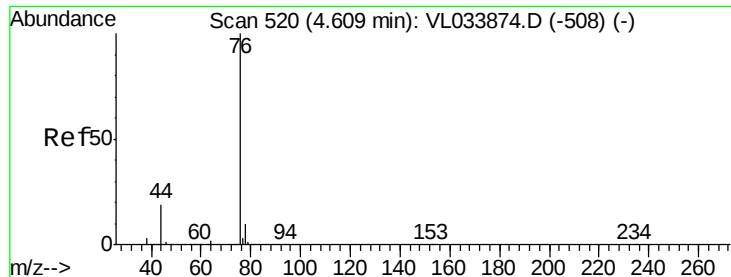
Tot Ion:	43	Resp:	266093
Ion	Ratio	Lower	Upper
43	100		
45	6.7	7.9	11.9#
61	4.6	7.8	11.6#
70	7.4	5.8	8.6



#26
Hexane
Concen: 2.845 ppbv
RT: 5.77 min Scan# 880
Delta R.T. 0.00 min
Lab File: VL033908.D
Acq: 13 Jun 2019 22:08

Tgt Ion:	57	Resp:	255772
Ion	Ratio	Lower	Upper
57	100		
41	155.5	71.4	107.2#
43	105.2	183.7	275.5#
56	78.7	42.7	64.1#





#27

Carbon Disulfide

Concen: 4.986 ppbv

RT: 4.61 min Scan# 520

Delta R.T. 0.00 min

Lab File: VL033908.D

Acq: 13 Jun 2019 22:08

Instrument :

MSVOA_L

ClientSampleId :

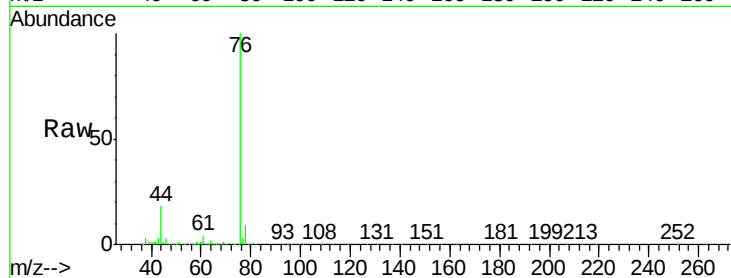
Tot Ion: 76 Resp: 622819

Ion Ratio Lower Upper

76 100

44 18.9 14.4 21.6

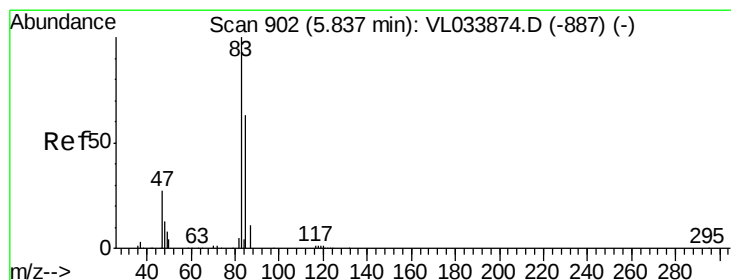
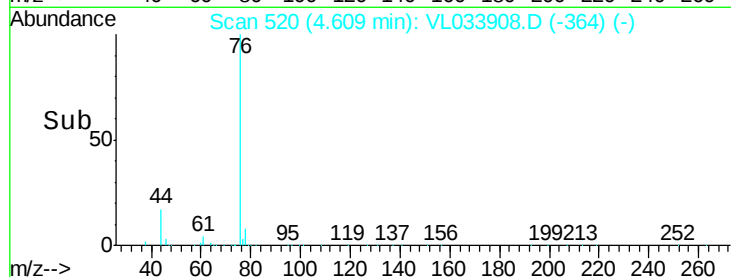
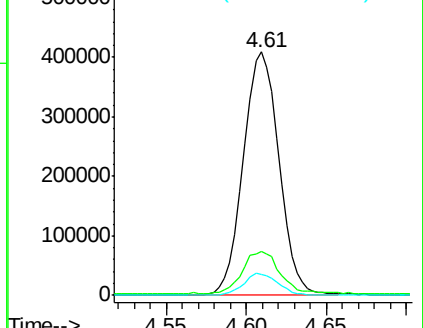
78 8.7 7.5 11.3



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: 0.306 ppbv

RT: 5.85 min Scan# 907

Delta R.T. 0.02 min

Lab File: VL033908.D

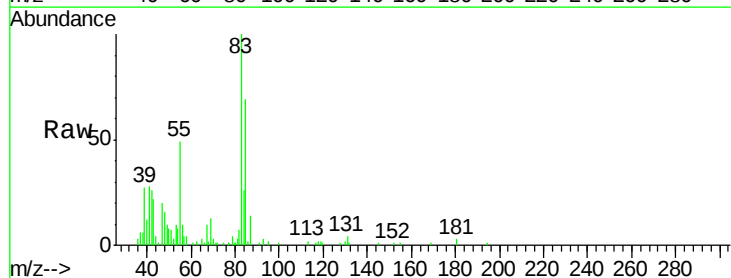
Acq: 13 Jun 2019 22:08

Tgt Ion: 83 Resp: 47114

Ion Ratio Lower Upper

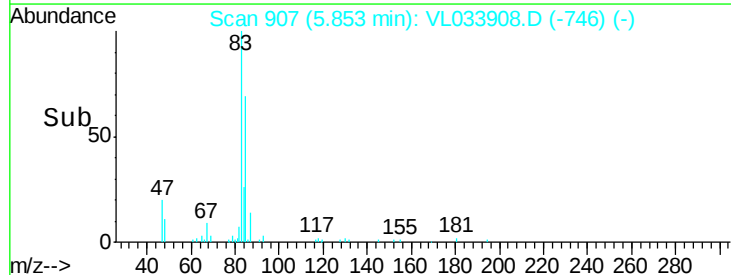
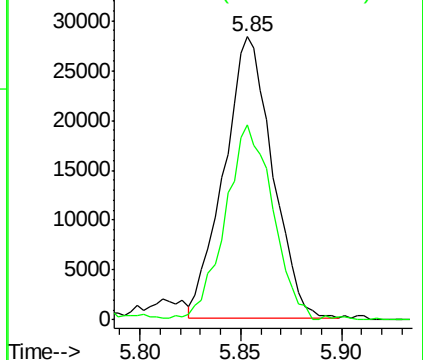
83 100

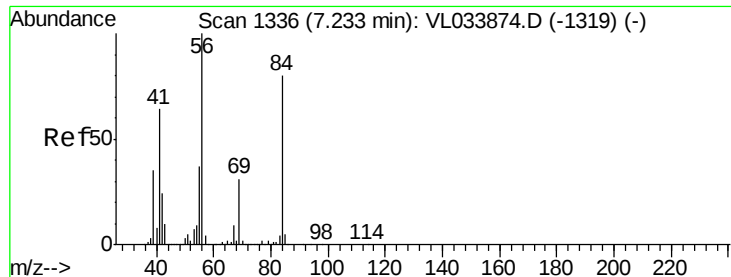
85 68.1 50.5 75.7



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

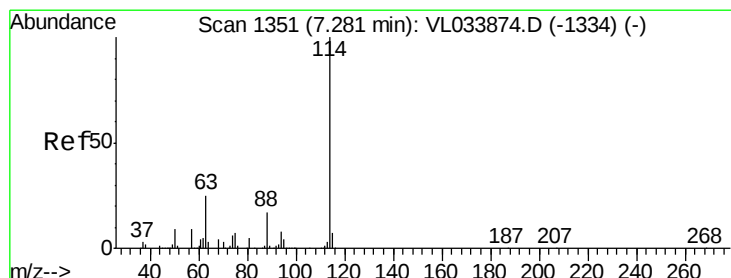
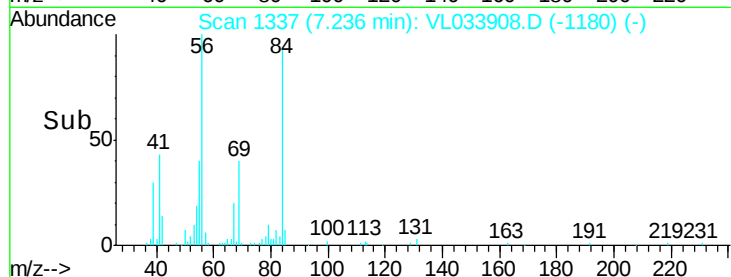
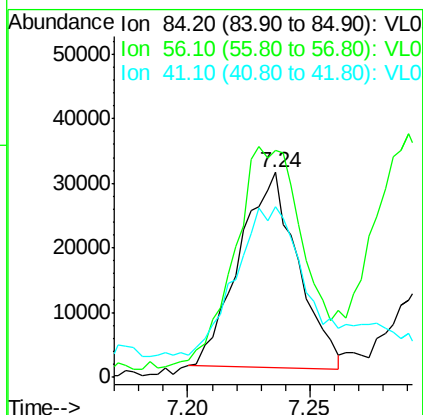
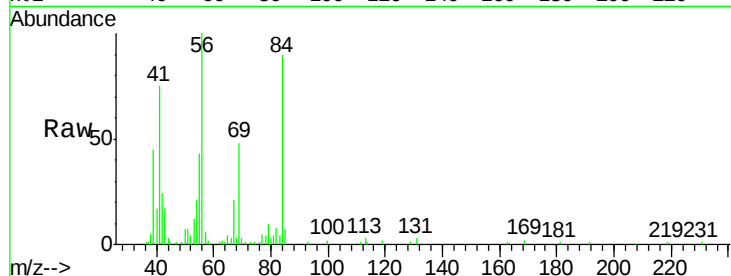




#30
Cyclohexane
Concen: 0.792 ppbv
RT: 7.24 min Scan# 1337
Delta R.T. 0.00 min
Lab File: VL033908.D
Acq: 13 Jun 2019 22:08

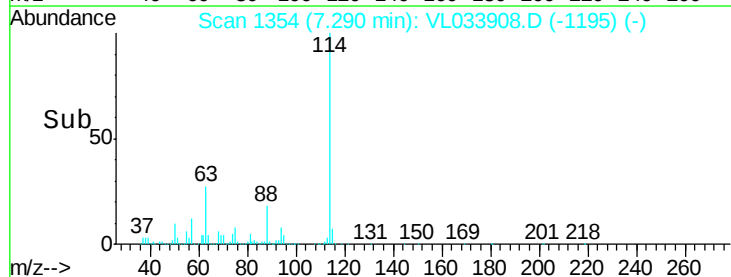
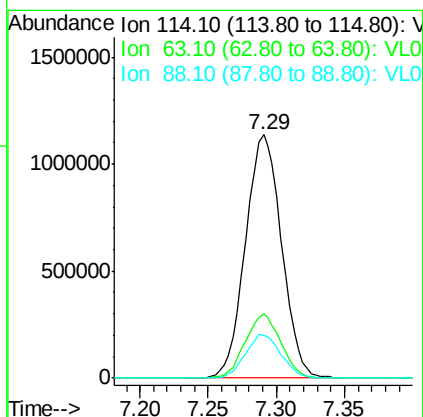
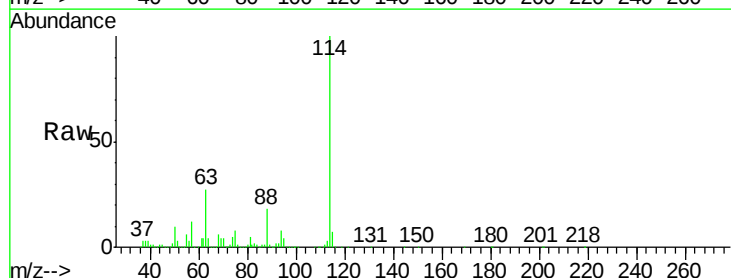
Instrument :
MSVOA_L
ClientSampleId :

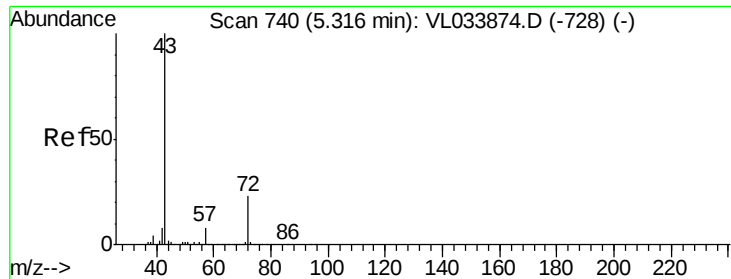
Tot Ion: 84 Resp: 50340
Ion Ratio Lower Upper
84 100
56 139.2 105.8 158.8
41 109.5 65.7 98.5#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1354
Delta R.T. 0.01 min
Lab File: VL033908.D
Acq: 13 Jun 2019 22:08

Tgt Ion: 114 Resp: 2092165
Ion Ratio Lower Upper
114 100
63 26.2 21.1 31.7
88 17.9 14.2 21.4

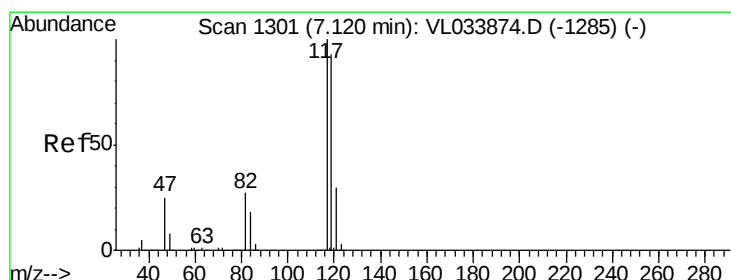
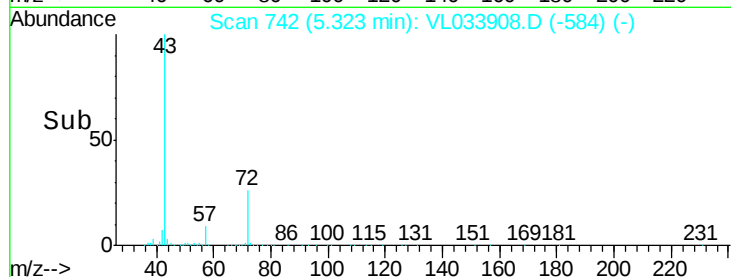
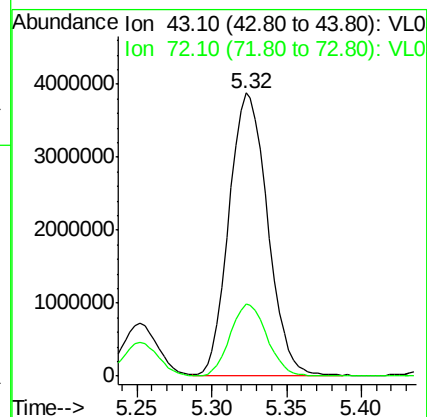
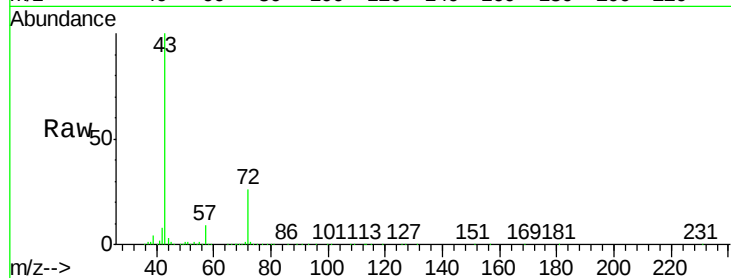




#34
2-Butanone
Concen: 58.625 ppbv
RT: 5.32 min Scan# 742
Delta R.T. 0.01 min
Lab File: VL033908.D
Acq: 13 Jun 2019 22:08

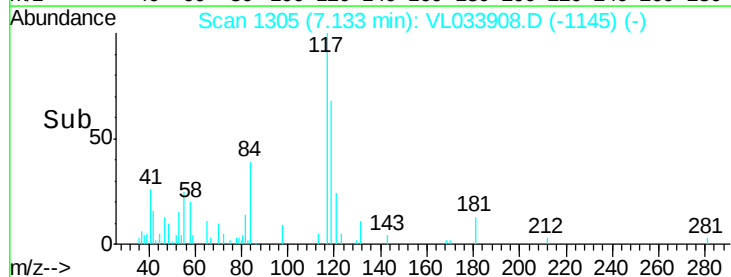
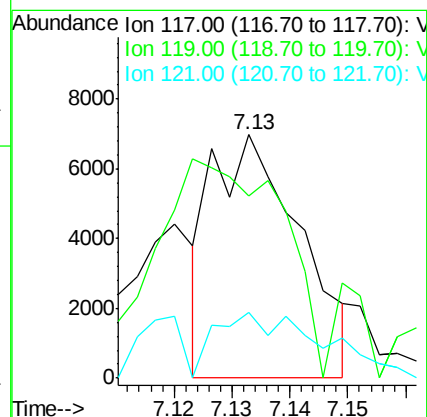
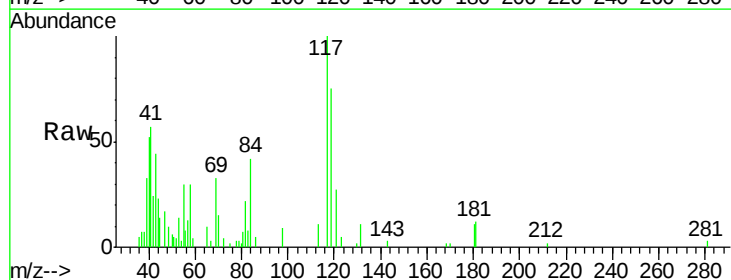
Instrument :
MSVOA_L
ClientSampleId :

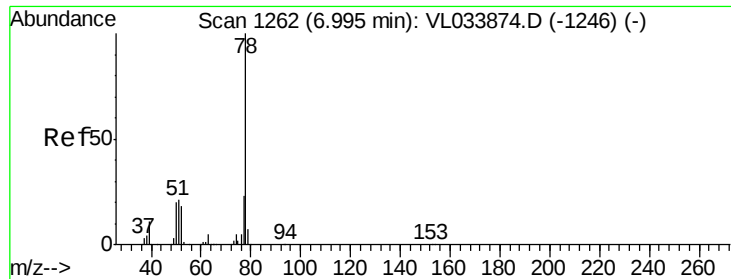
Tot Ion: 43 Resp: 6919439
Ion Ratio Lower Upper
43 100
72 24.6 17.9 26.9



#35
Carbon Tetrachloride
Concen: 0.046 ppbv
RT: 7.13 min Scan# 1305
Delta R.T. 0.01 min
Lab File: VL033908.D
Acq: 13 Jun 2019 22:08

Tgt Ion: 117 Resp: 7361
Ion Ratio Lower Upper
117 100
119 51.8 74.6 111.8#
121 39.0 24.0 36.0#

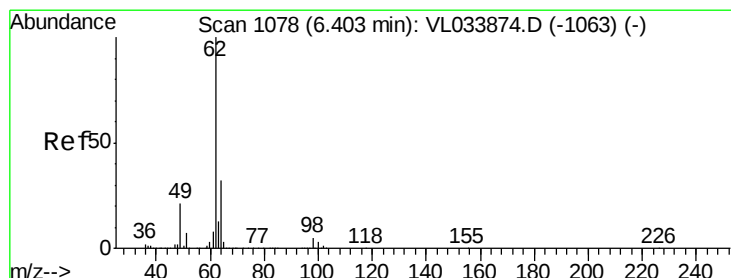
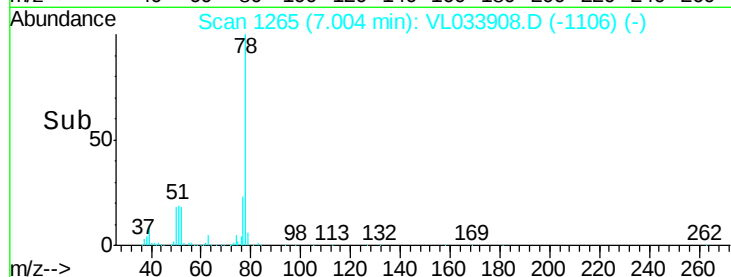
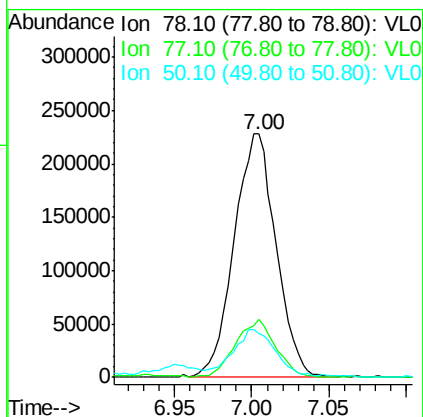
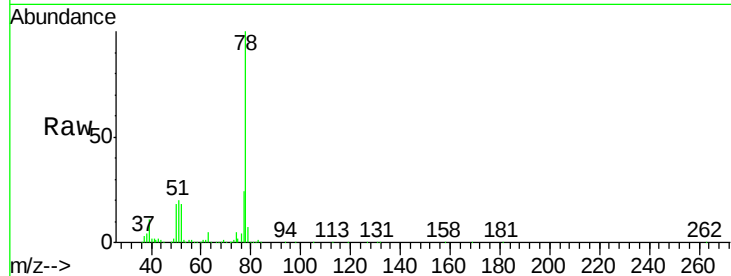




#36
Benzene
Concen: 2.655 ppbv
RT: 7.00 min Scan# 1265
Delta R.T. 0.01 min
Lab File: VL033908.D
Acq: 13 Jun 2019 22:08

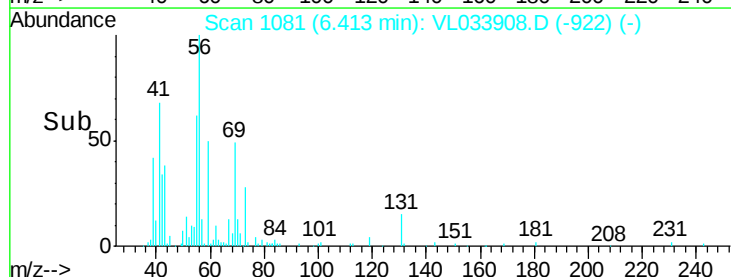
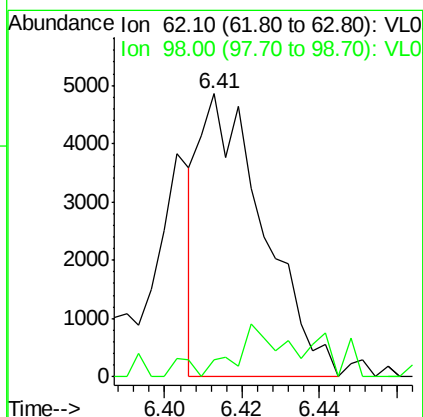
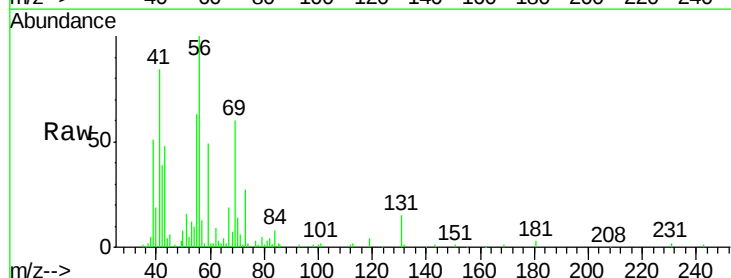
Instrument :
MSVOA_L
ClientSampleId :

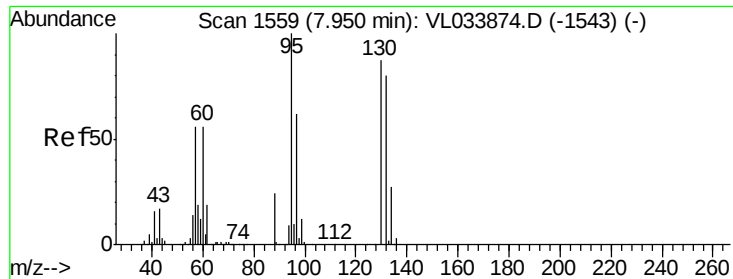
Tot Ion: 78 Resp: 424334
Ion Ratio Lower Upper
78 100
77 23.4 18.2 27.2
50 17.5 15.9 23.9



#37
1,2-Dichloroethane
Concen: 0.047 ppbv
RT: 6.41 min Scan# 1081
Delta R.T. 0.01 min
Lab File: VL033908.D
Acq: 13 Jun 2019 22:08

Tgt Ion: 62 Resp: 5575
Ion Ratio Lower Upper
62 100
98 23.5 4.0 6.0#

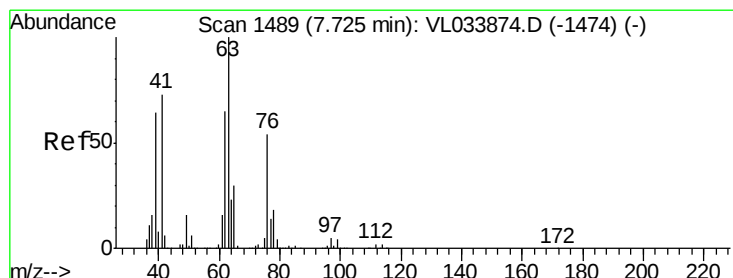
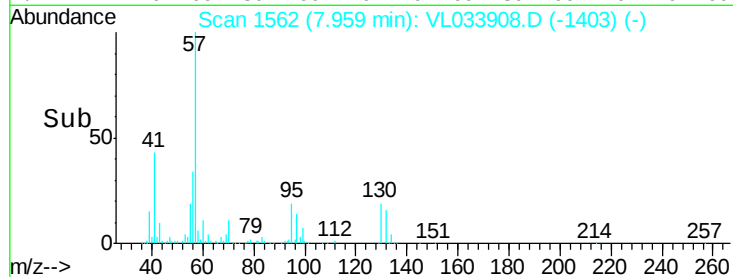
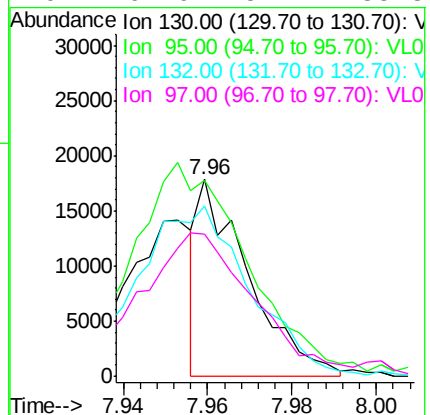
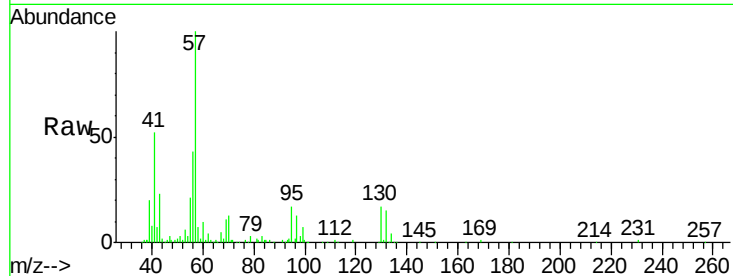




#38
 Trichloroethene
 Concen: 0.235 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. 0.01 min
 Lab File: VL033908.D
 Acq: 13 Jun 2019 22:08

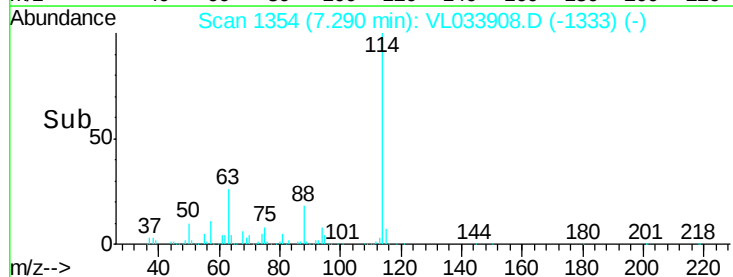
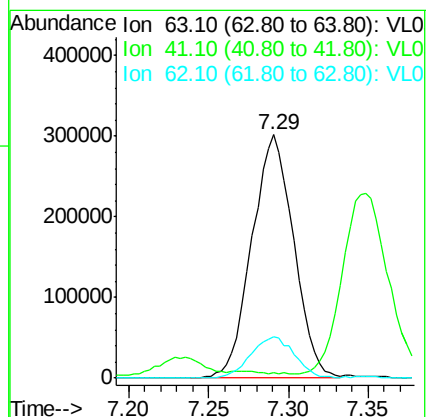
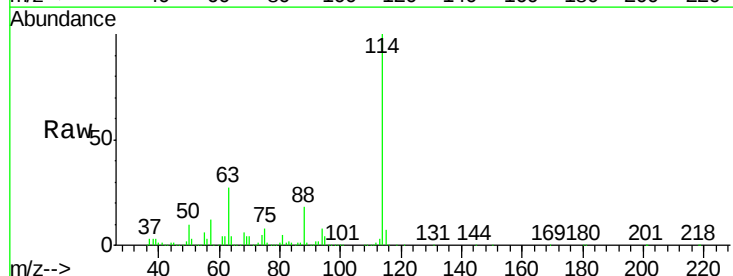
Instrument :
 MSVOA_L
 ClientSampled :

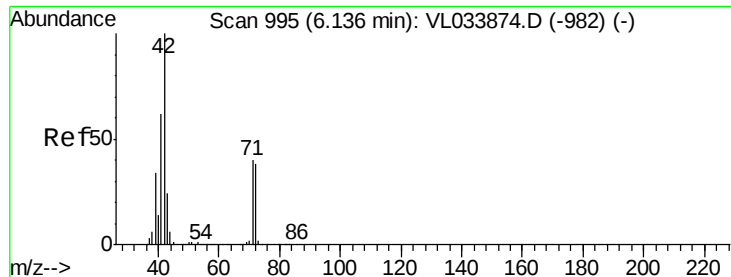
Tot Ion:130	Resp:	14623	
Ion	Ratio	Lower	Upper
130	100		
95	95.2	92.0	138.0
132	87.2	73.8	110.8
97	67.9	57.2	85.8



#39
 1,2-Dichloropropane
 Concen: 8.769 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.43 min
 Lab File: VL033908.D
 Acq: 13 Jun 2019 22:08

Tgt	Ion: 63	Resp:	540863
Ion	Ratio	Lower	Upper
63	100		
41	0.0	58.7	88.1#
62	16.9	51.9	77.9#





#41

Tetrahydrofuran

Concen: 9.883 ppbv

RT: 6.14 min Scan# 996

Delta R.T. 0.00 min

Lab File: VL033908.D

Acq: 13 Jun 2019 22:08

Instrument :

MSVOA_L

ClientSampleId :

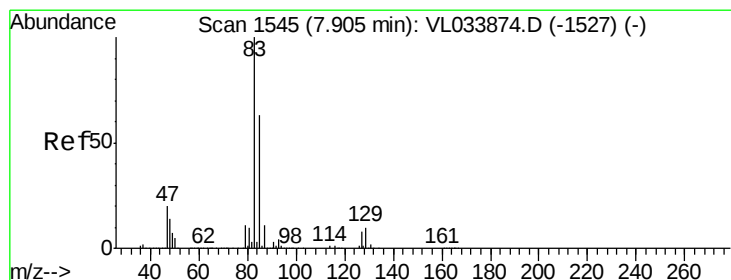
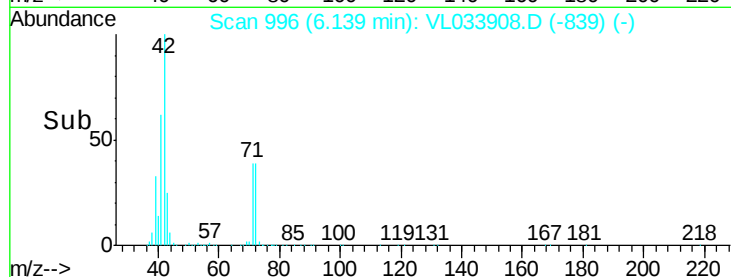
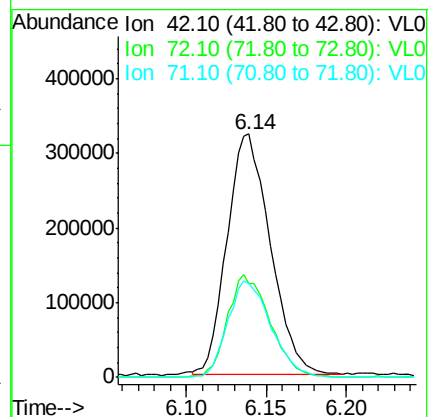
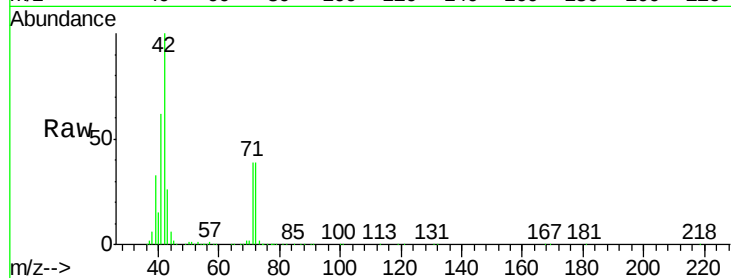
Tot Ion: 42 Resp: 592066

Ion Ratio Lower Upper

42 100

72 42.3 32.2 48.4

71 40.5 31.7 47.5



#42

Bromodichloromethane

Concen: 0.128 ppbv

RT: 7.91 min Scan# 1546

Delta R.T. 0.00 min

Lab File: VL033908.D

Acq: 13 Jun 2019 22:08

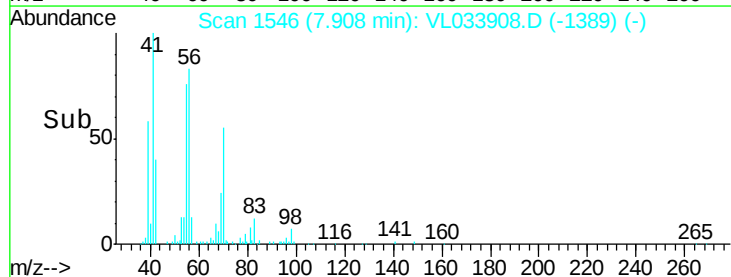
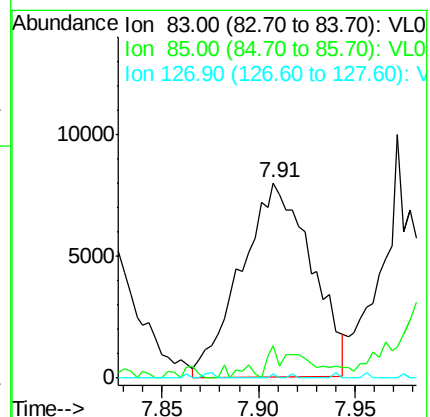
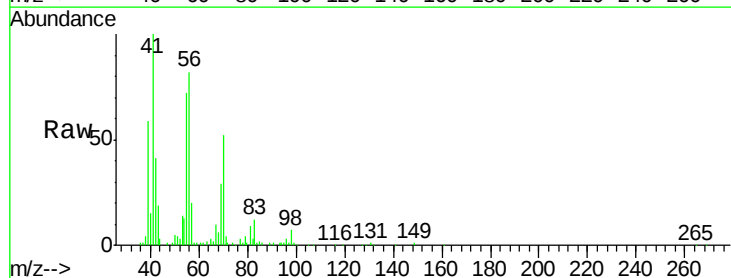
Tgt Ion: 83 Resp: 20171

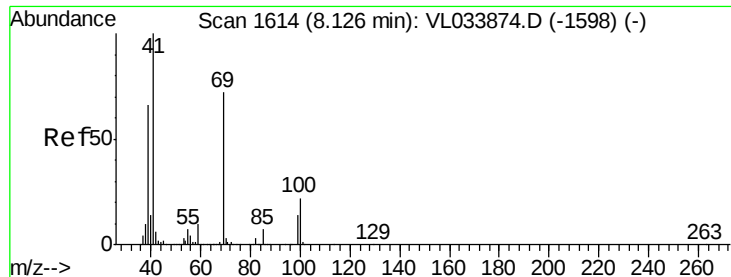
Ion Ratio Lower Upper

83 100

85 11.9 50.2 75.2#

127 2.6 6.5 9.7#

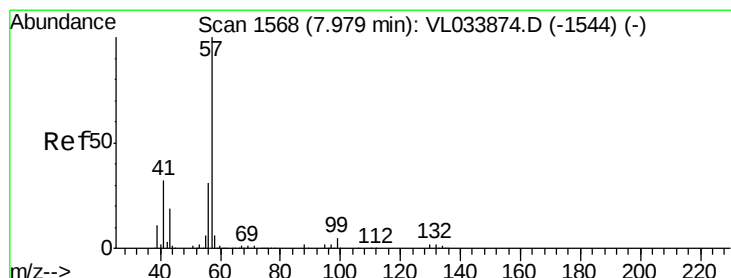
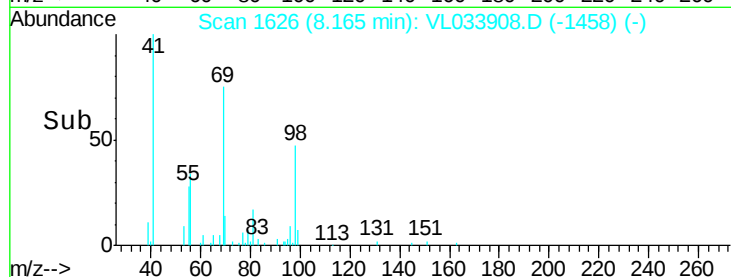
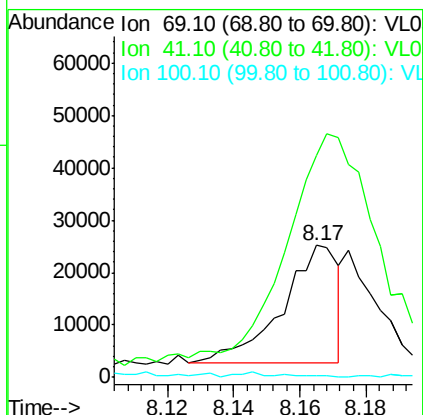
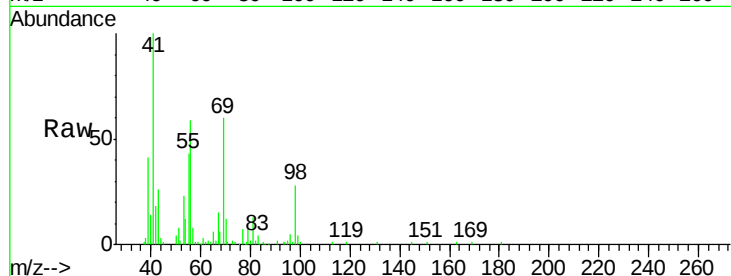




#43
Methvl Methacrylate
Concen: 0.439 ppbv
RT: 8.17 min Scan# 1626
Delta R.T. 0.04 min
Lab File: VL033908.D
Acq: 13 Jun 2019 22:08

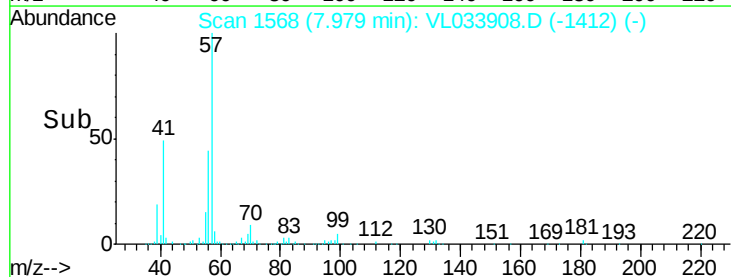
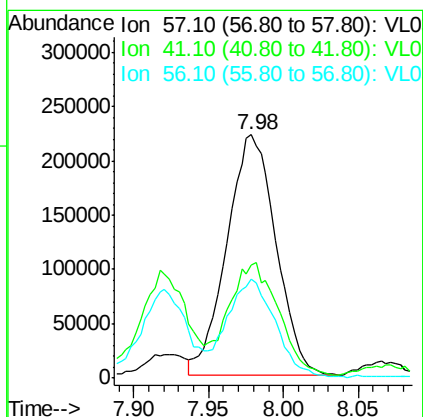
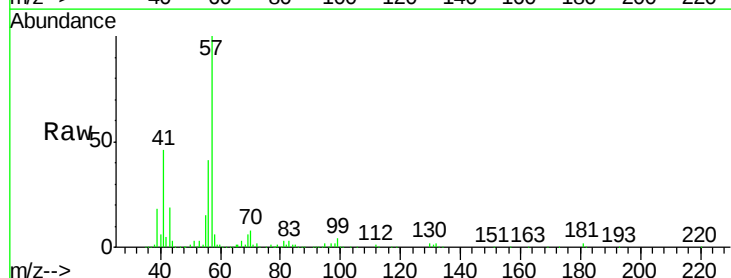
Instrument :
MSVOA_L
ClientSampleId :

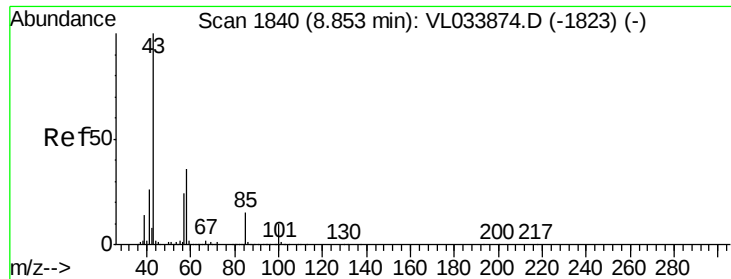
Tot Ion: 69 Resp: 26216
Ion Ratio Lower Upper
69 100
41 335.8 114.3 171.5#
100 0.0 24.8 37.2#



#44
2,2,4-Trimethylpentane
Concen: 1.787 ppbv
RT: 7.98 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VL033908.D
Acq: 13 Jun 2019 22:08

Tgt Ion: 57 Resp: 508007
Ion Ratio Lower Upper
57 100
41 46.4 26.1 39.1#
56 38.4 24.6 36.8#

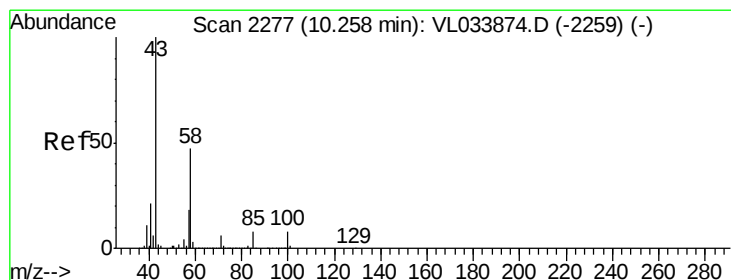
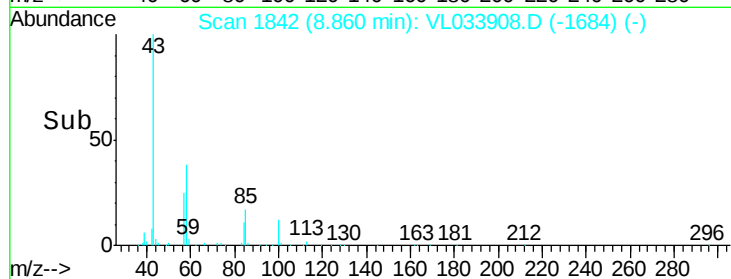
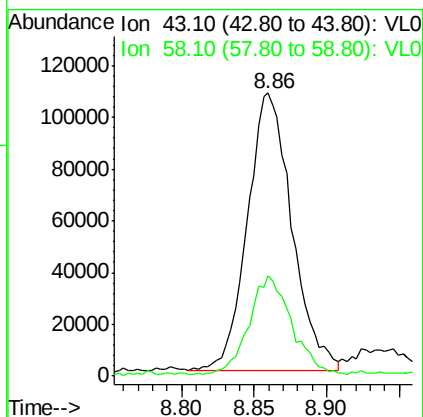
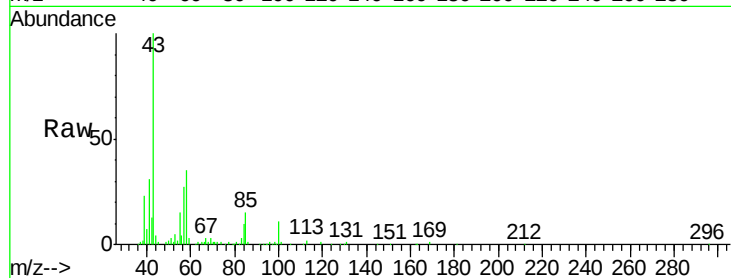




#50
 4-Methyl-2-Pentanone
 Concen: 1.294 ppbv
 RT: 8.86 min Scan# 1842
 Delta R.T. 0.01 min
 Lab File: VL033908.D
 Acq: 13 Jun 2019 22:08

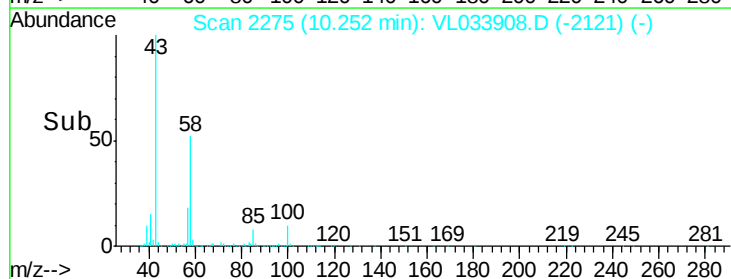
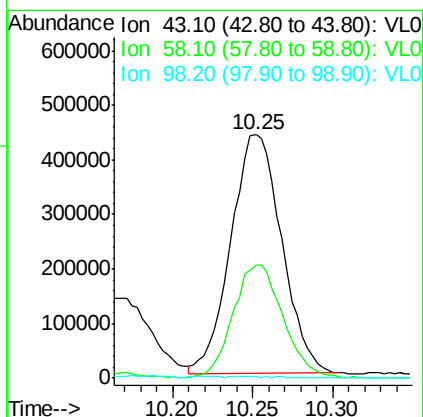
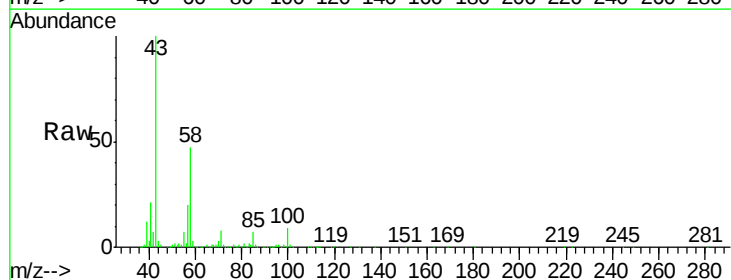
Instrument :
 MSVOA_L
 ClientSampleId :

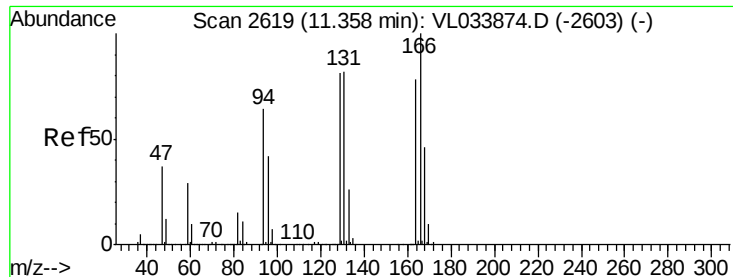
Tot Ion: 43 Resp: 227795
 Ion Ratio Lower Upper
 43 100
 58 34.1 28.6 42.8



#51
 2-Hexanone
 Concen: 6.924 ppbv
 RT: 10.25 min Scan# 2275
 Delta R.T. -0.01 min
 Lab File: VL033908.D
 Acq: 13 Jun 2019 22:08

Tgt Ion: 43 Resp: 951621
 Ion Ratio Lower Upper
 43 100
 58 46.7 38.2 57.4
 98 1.0 0.2 0.2#





#52

Tetrachloroethene

Concen: 5.802 ppbv

RT: 11.36 min Scan# 2620

Delta R.T. 0.00 min

Lab File: VL033908.D

Acq: 13 Jun 2019 22:08

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 326264

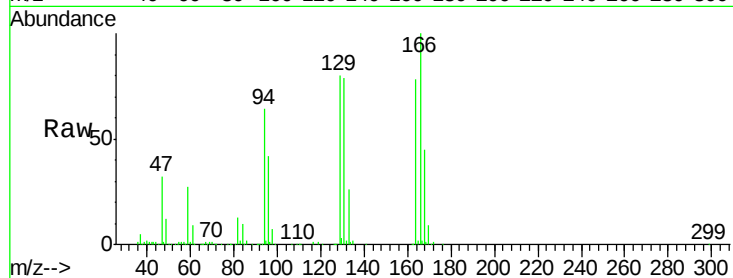
Ion Ratio Lower Upper

164 100

166 127.7 103.1 154.7

129 102.3 83.9 125.9

131 101.4 85.1 127.7

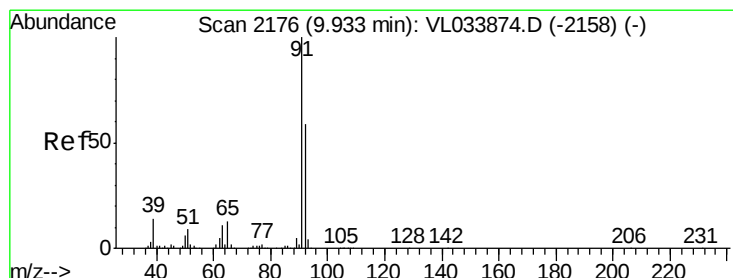
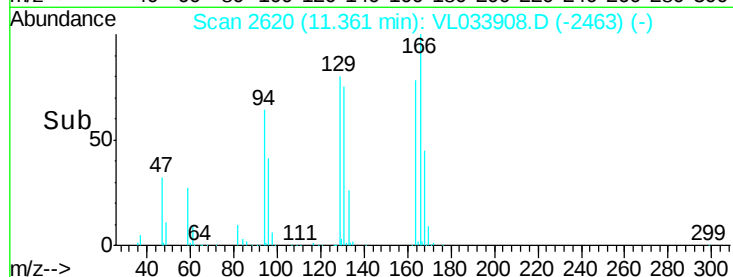
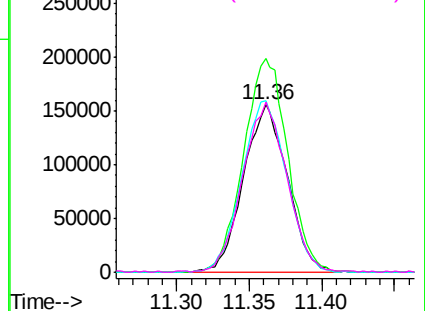


Abundance Ion 163.90 (163.60 to 164.60): V

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: 7.758 ppbv

RT: 9.94 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VL033908.D

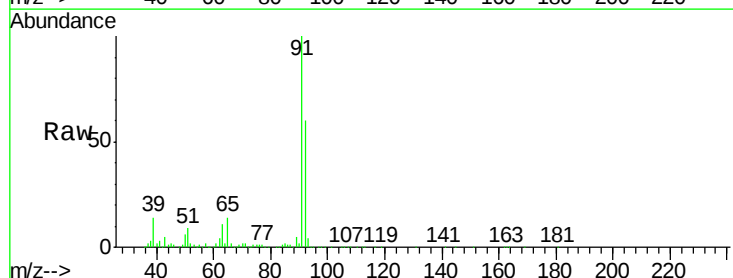
Acq: 13 Jun 2019 22:08

Tgt Ion: 91 Resp: 1372108

Ion Ratio Lower Upper

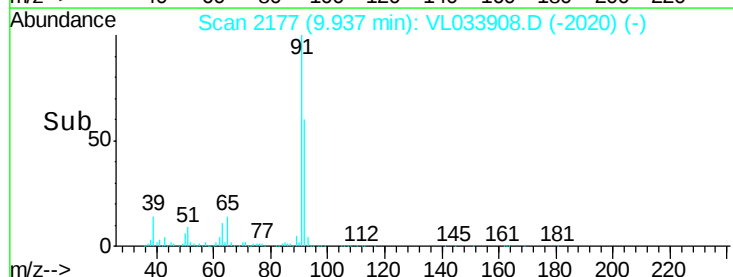
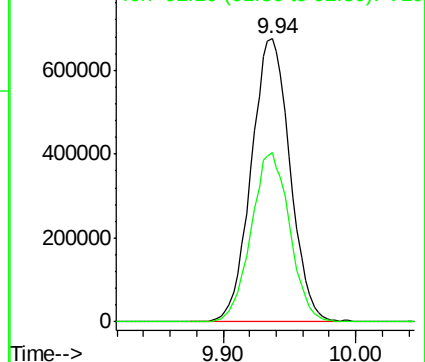
91 100

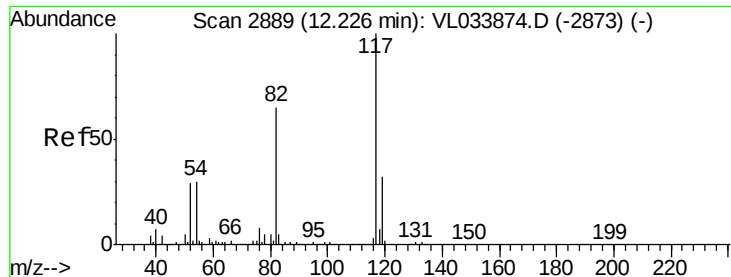
92 59.6 47.0 70.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

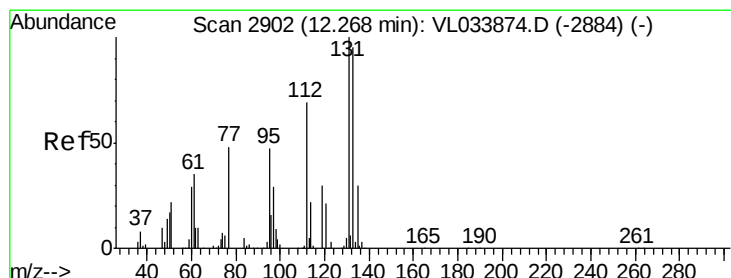
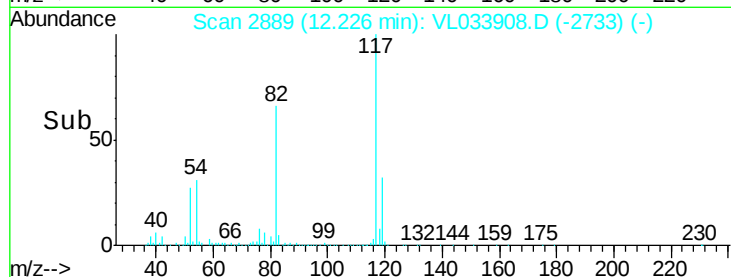
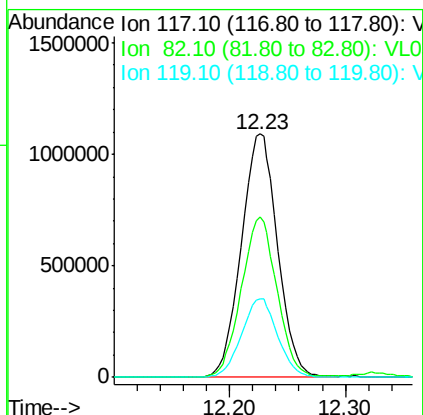
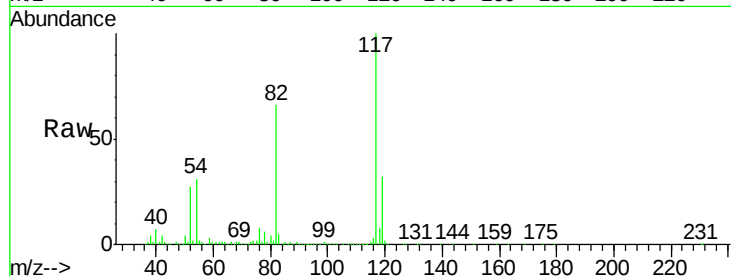




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2889
Delta R.T. 0.00 min
Lab File: VL033908.D
Acq: 13 Jun 2019 22:08

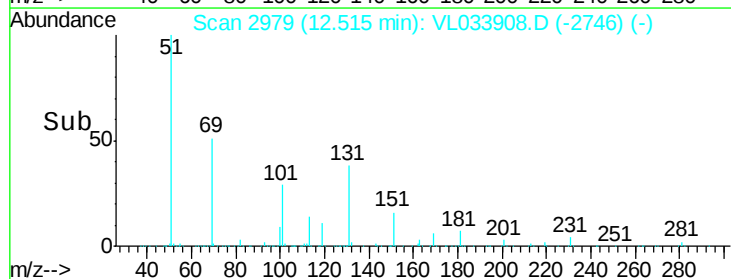
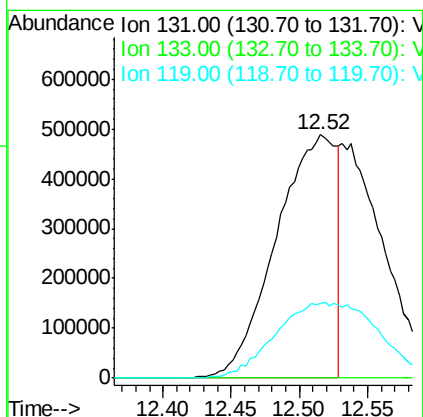
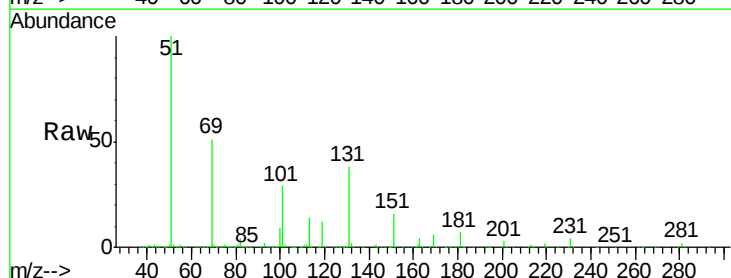
Instrument :
MSVOA_L
ClientSampled :

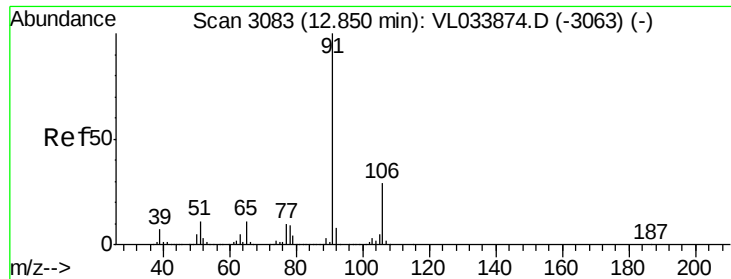
Tot Ion:117 Resp: 2373366
Ion Ratio Lower Upper
117 100
82 64.8 50.2 75.2
119 32.3 24.8 37.2



#56
1,1,1,2-Tetrachloroethane
Concen: 14.374 ppbv
RT: 12.52 min Scan# 2979
Delta R.T. 0.25 min
Lab File: VL033908.D
Acq: 13 Jun 2019 22:08

Tgt Ion:131 Resp: 1490237
Ion Ratio Lower Upper
131 100
133 0.0 76.5 114.7#
119 54.8 42.6 64.0





#58

Ethyl Benzene

Concen: 0.813 ppbv

RT: 12.85 min Scan# 3083

Delta R.T. 0.00 min

Lab File: VL033908.D

Acq: 13 Jun 2019 22:08

Instrument :

MSVOA_L

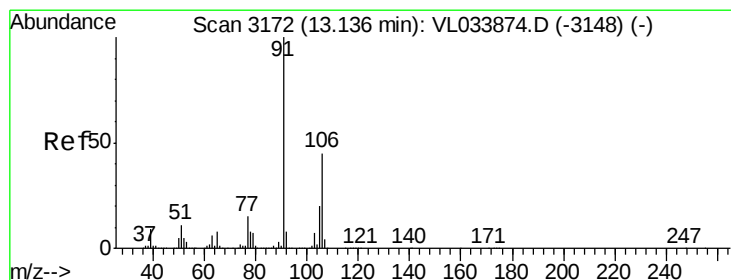
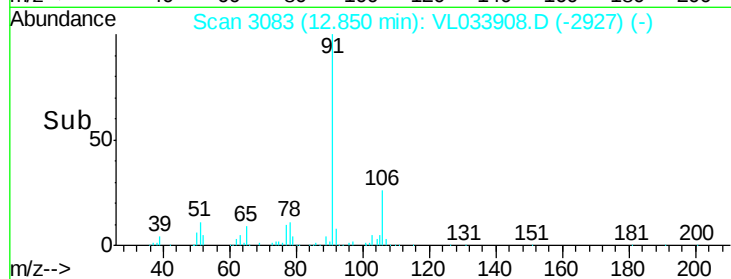
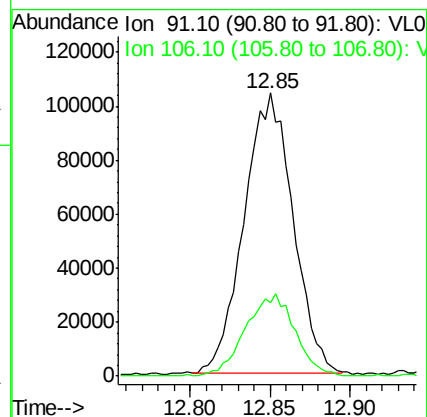
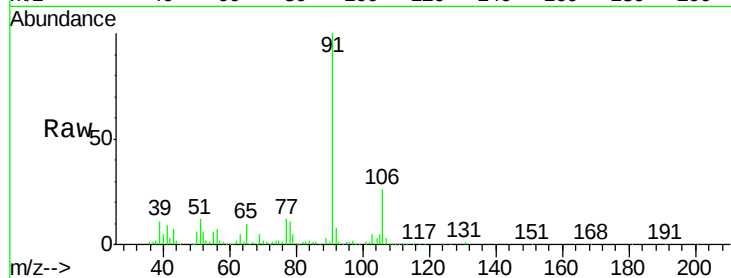
ClientSampleId :

Tot Ion: 91 Resp: 217454

Ion Ratio Lower Upper

91 100

106 26.1 23.0 34.6



#59

m/p-Xylene

Concen: 2.230 ppbv

RT: 13.11 min Scan# 3163

Delta R.T. -0.03 min

Lab File: VL033908.D

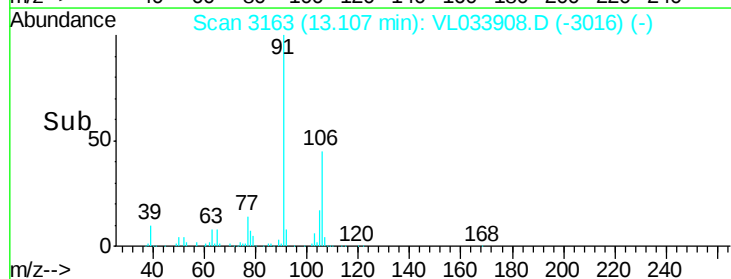
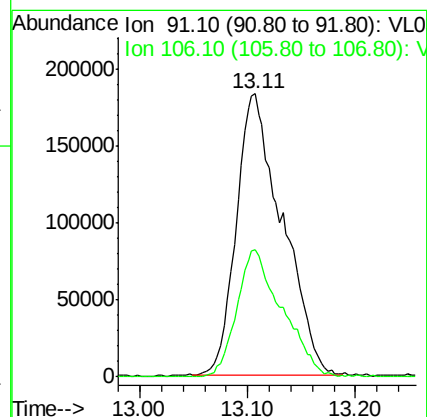
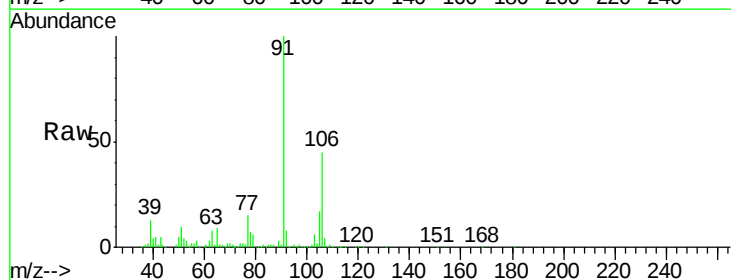
Acq: 13 Jun 2019 22:08

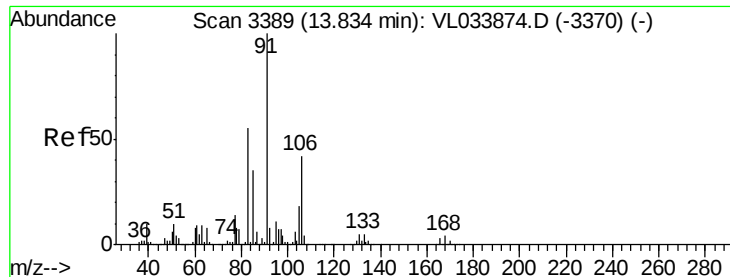
Tgt Ion: 91 Resp: 542715

Ion Ratio Lower Upper

91 100

106 44.6 35.8 53.8





#60

o-Xylene

Concen: 1.106 ppbv

RT: 13.83 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VL033908.D

Acq: 13 Jun 2019 22:08

Instrument :

MSVOA_L

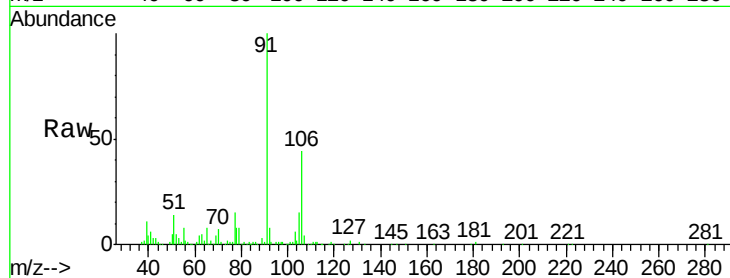
ClientSampleId :

Tot Ion: 91 Resp: 277921

Ion Ratio Lower Upper

91 100

106 43.2 21.7 65.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): VL0

13.83

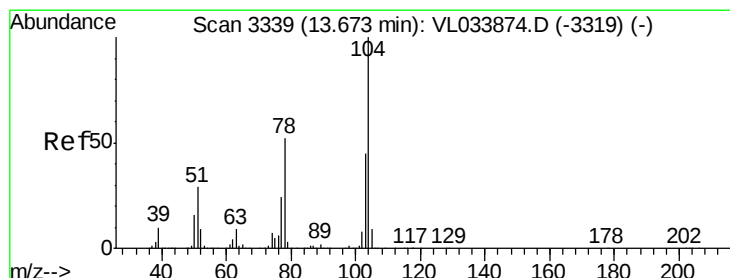
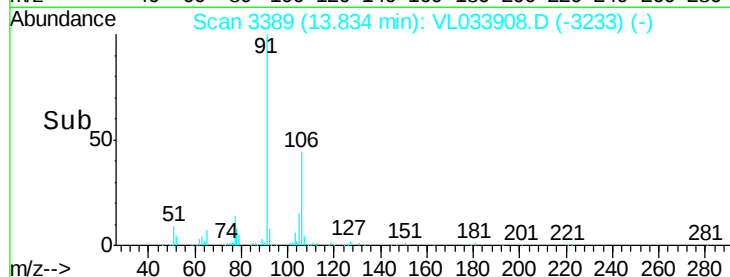
150000

100000

50000

0

Time-->



#61

Styrene

Concen: 0.786 ppbv

RT: 13.67 min Scan# 3338

Delta R.T. -0.00 min

Lab File: VL033908.D

Acq: 13 Jun 2019 22:08

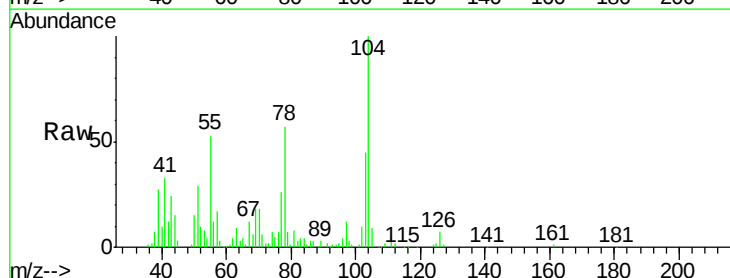
Tgt Ion: 104 Resp: 127866

Ion Ratio Lower Upper

104 100

78 58.7 43.4 65.0

103 46.1 37.6 56.4



Abundance Ion 104.10 (103.80 to 104.80): VL0

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): VL0

13.67

80000

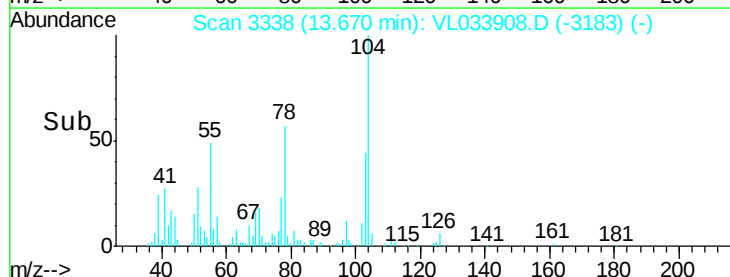
60000

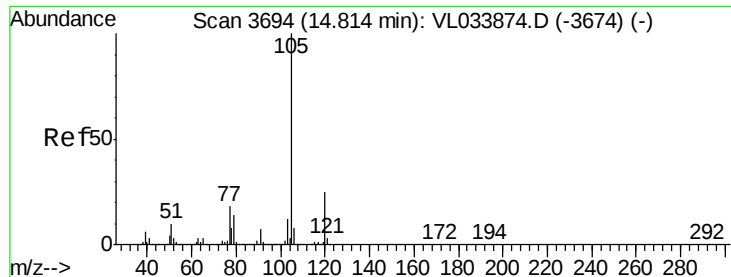
40000

20000

0

Time-->





#62

Isopropylbenzene

Concen: 0.535 ppbv

RT: 14.81 min Scan# 3692

Delta R.T. -0.01 min

Lab File: VL033908.D

Acq: 13 Jun 2019 22:08

Instrument :

MSVOA_L

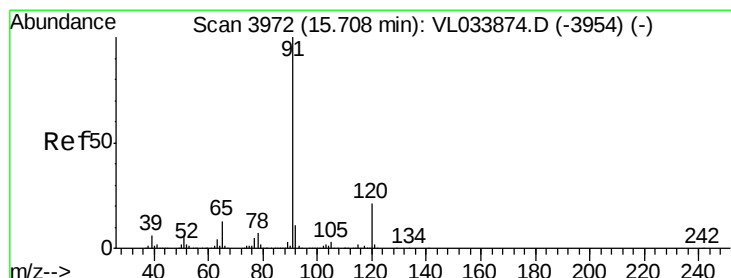
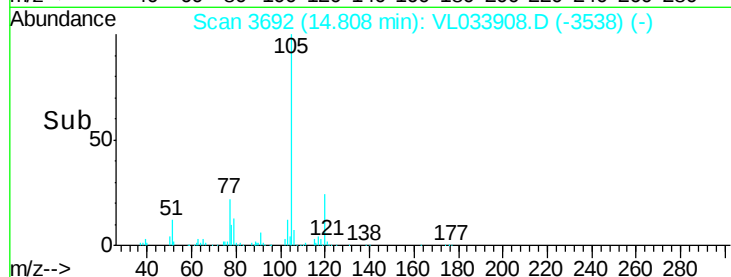
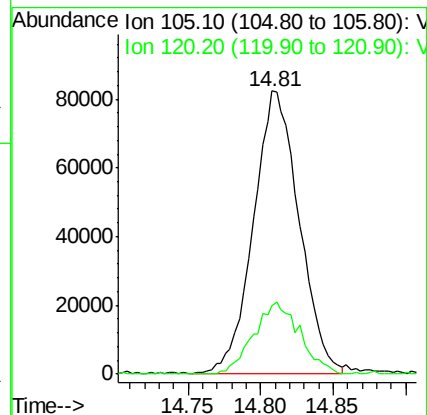
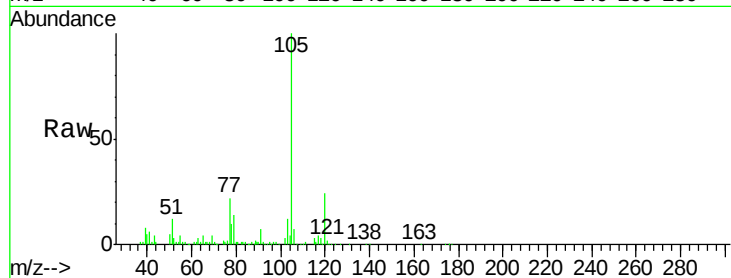
ClientSampleId :

Tot Ion:105 Resp: 181174

Ion Ratio Lower Upper

105 100

120 25.7 20.3 30.5



#64

n-propylbenzene

Concen: 2.175 ppbv

RT: 15.70 min Scan# 3970

Delta R.T. -0.01 min

Lab File: VL033908.D

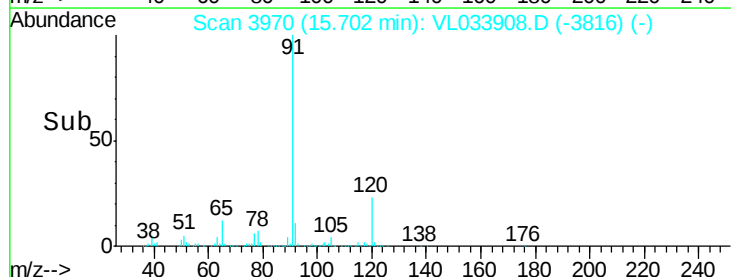
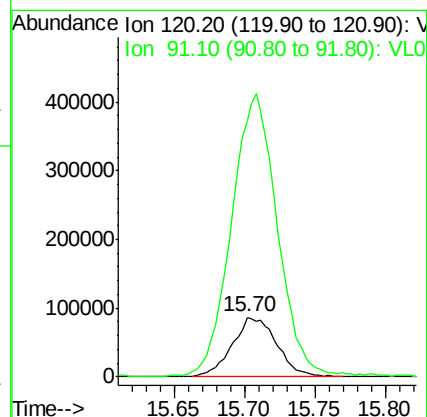
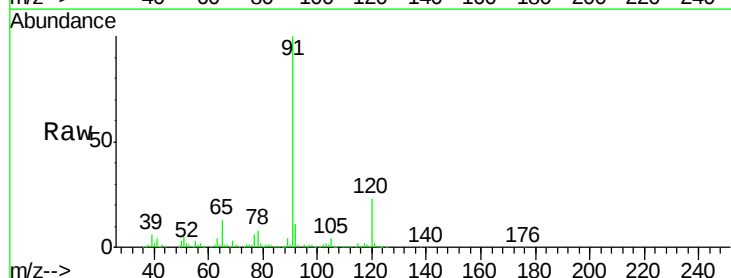
Acq: 13 Jun 2019 22:08

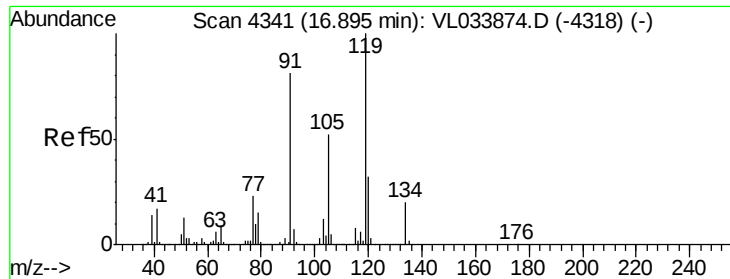
Tgt Ion:120 Resp: 188630

Ion Ratio Lower Upper

120 100

91 495.7 387.0 580.6





#65

tert-Butylbenzene

Concen: 0.611 ppbv

RT: 16.91 min Scan# 4346

Delta R.T. 0.02 min

Lab File: VL033908.D

Acq: 13 Jun 2019 22:08

Instrument :

MSVOA_L

ClientSampleId :

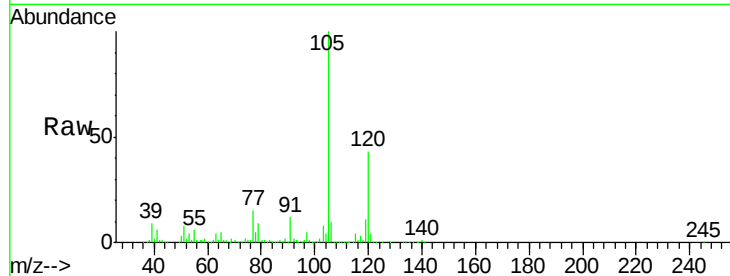
Tot Ion:119 Resp: 191512

Ion Ratio Lower Upper

119 100

91 113.7 66.6 100.0#

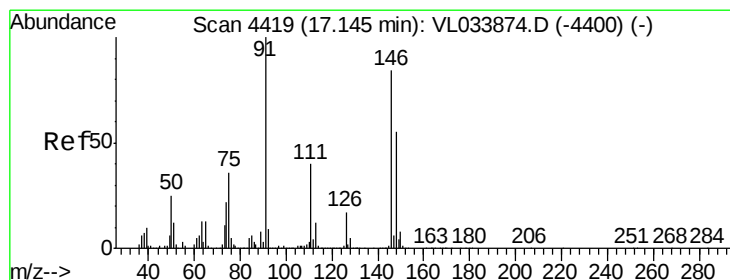
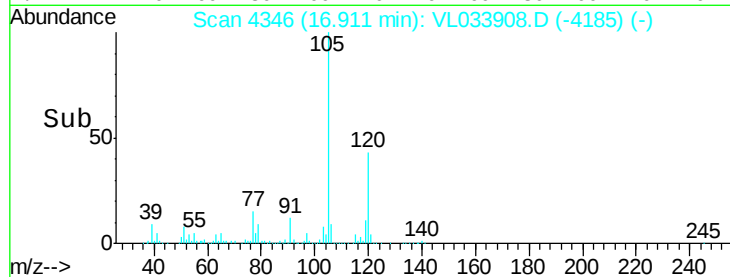
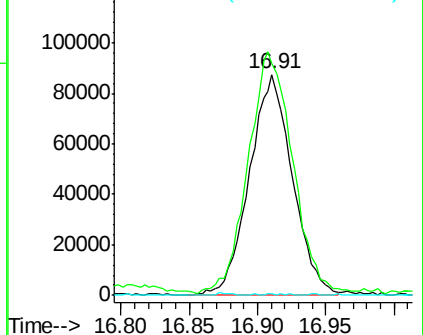
134 1.0 15.5 23.3#



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 0.135 ppbv

RT: 17.35 min Scan# 4484

Delta R.T. 0.21 min

Lab File: VL033908.D

Acq: 13 Jun 2019 22:08

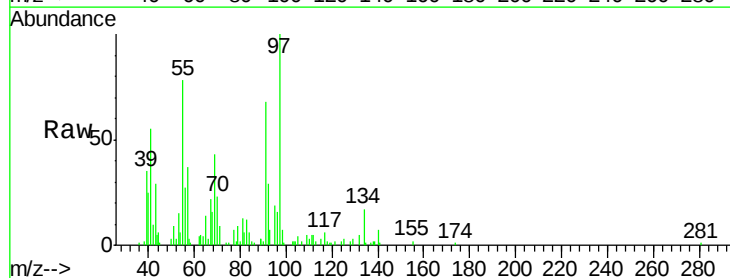
Tgt Ion: 91 Resp: 21495

Ion Ratio Lower Upper

91 100

126 1.5 13.8 20.6#

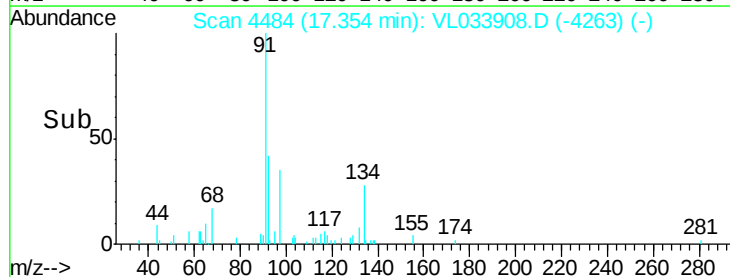
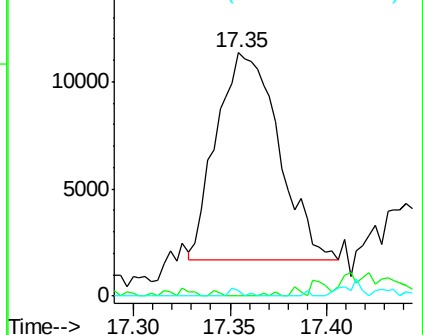
128 0.7 4.4 6.6#

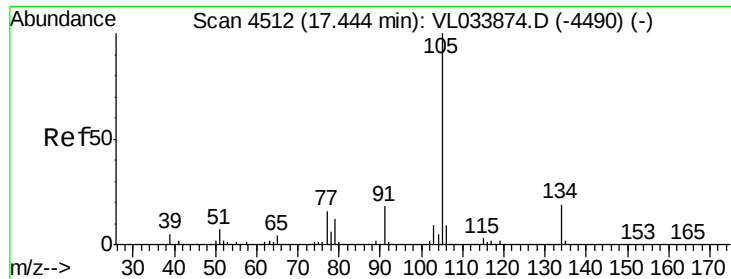


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 0.064 ppbv

RT: 17.44 min Scan# 4511

Delta R.T. -0.00 min

Lab File: VL033908.D

Acq: 13 Jun 2019 22:08

Instrument :

MSVOA_L

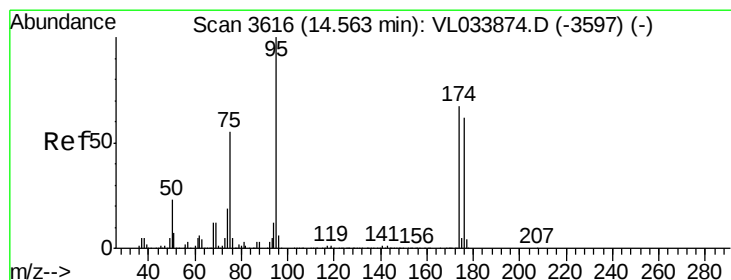
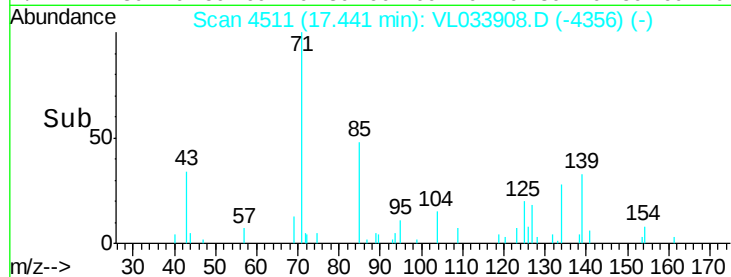
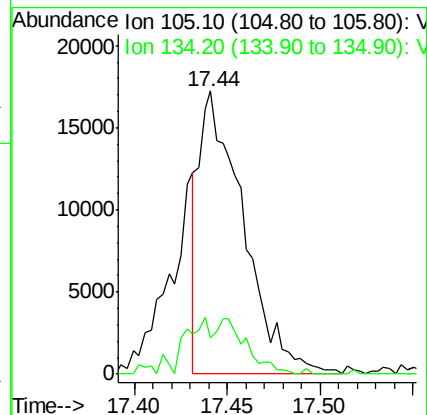
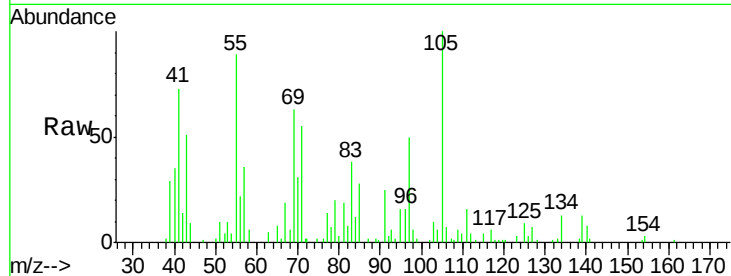
ClientSampled :

Tot Ion:105 Resp: 28230

Ion Ratio Lower Upper

105 100

134 26.8 14.6 22.0#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.111 ppbv

RT: 14.56 min Scan# 3615

Delta R.T. -0.00 min

Lab File: VL033908.D

Acq: 13 Jun 2019 22:08

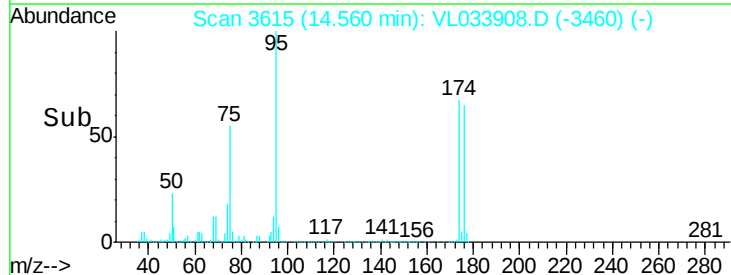
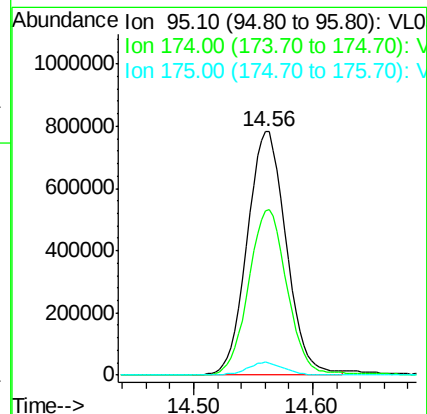
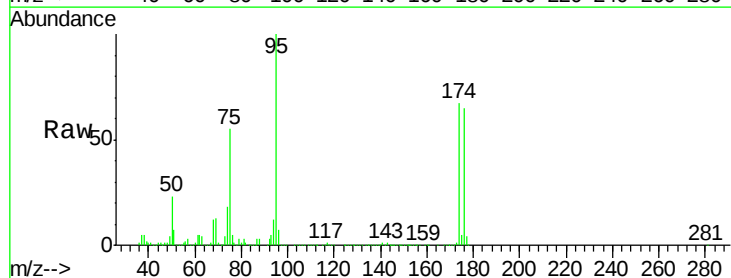
Tgt Ion: 95 Resp: 1776146

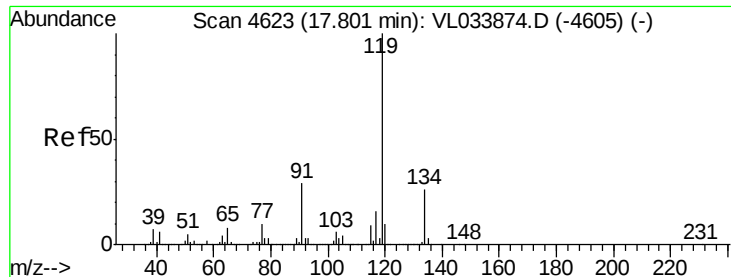
Ion Ratio Lower Upper

95 100

174 68.2 54.0 81.0

175 4.9 3.8 5.8

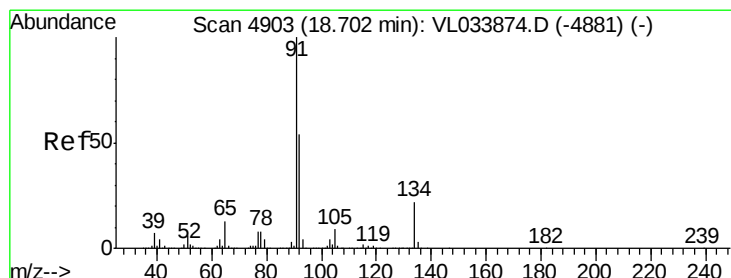
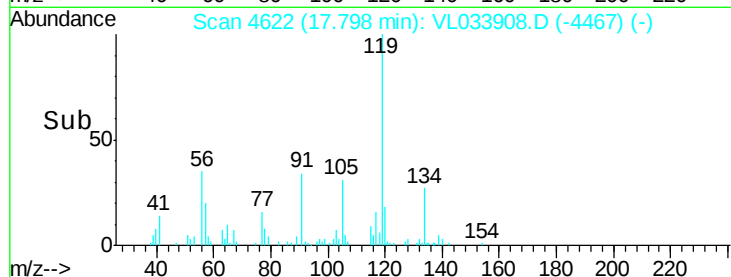
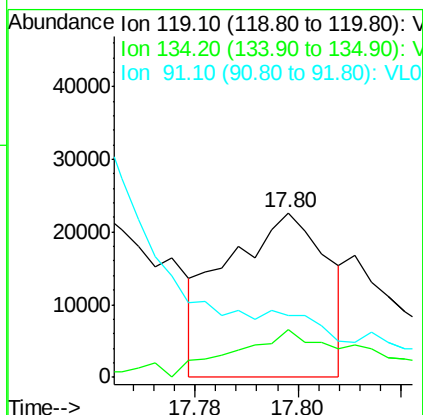
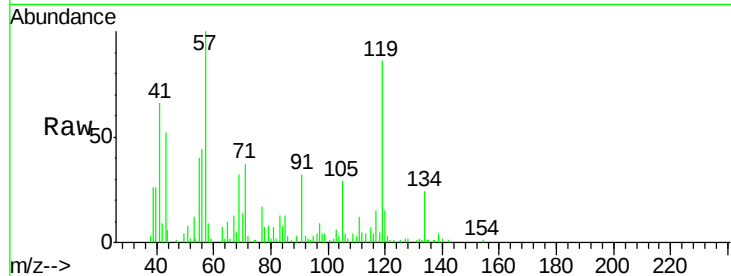




#69
 p-Isopropyltoluene
 Concen: 0.084 ppbv
 RT: 17.80 min Scan# 4622
 Delta R.T. -0.00 min
 Lab File: VL033908.D
 Acq: 13 Jun 2019 22:08

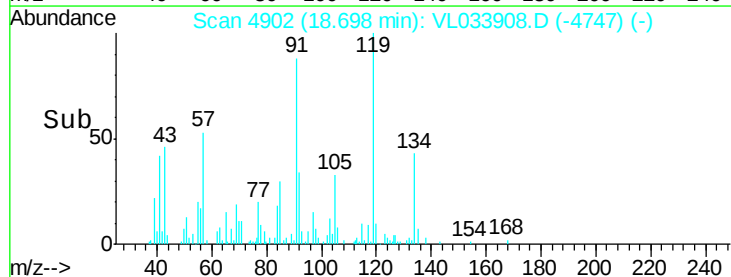
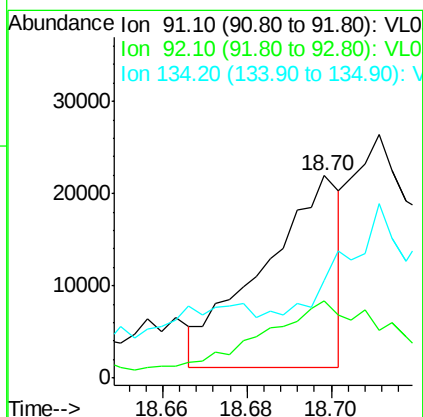
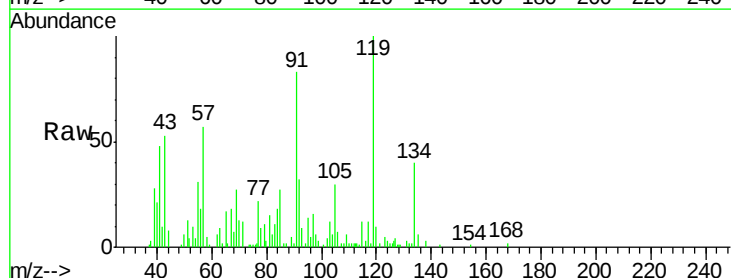
Instrument :
 MSVOA_L
 ClientSampled :

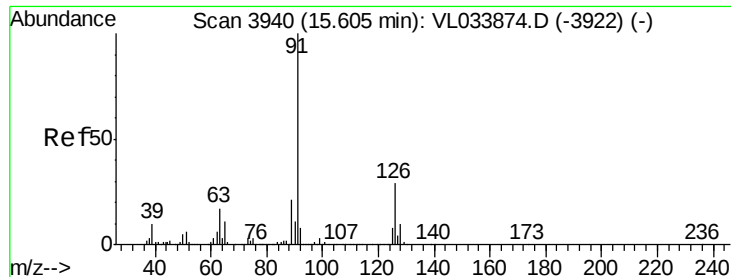
Tot Ion:119 Resp: 30595
 Ion Ratio Lower Upper
 119 100
 134 43.3 20.3 30.5#
 91 0.0 23.8 35.6#



#70
 n-Butylbenzene
 Concen: 0.066 ppbv
 RT: 18.70 min Scan# 4902
 Delta R.T. -0.00 min
 Lab File: VL033908.D
 Acq: 13 Jun 2019 22:08

Tgt Ion: 91 Resp: 26339
 Ion Ratio Lower Upper
 91 100
 92 84.5 42.5 63.7#
 134 0.0 17.8 26.6#





#71

2-Chlorotoluene

Concen: 3.690 ppbv

RT: 15.71 min Scan# 3972

Delta R.T. 0.10 min

Lab File: VL033908.D

Acq: 13 Jun 2019 22:08

Instrument :

MSVOA_L

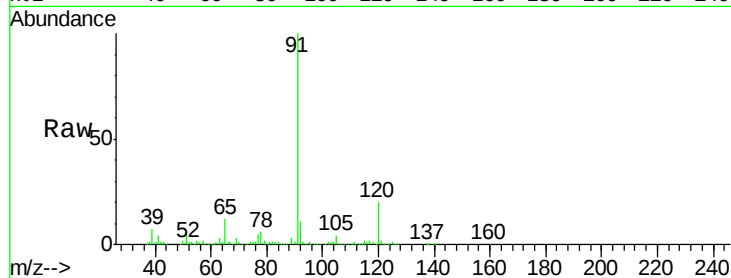
ClientSampleId :

Tot Ion: 91 Resp: 920440

Ion Ratio Lower Upper

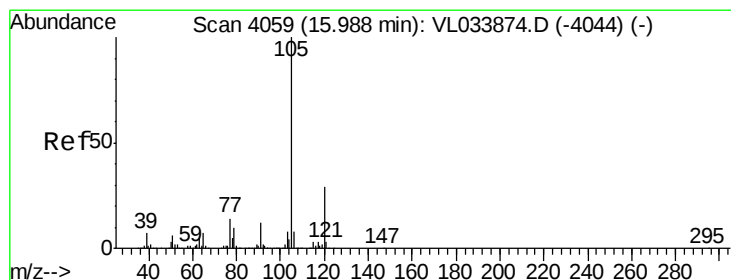
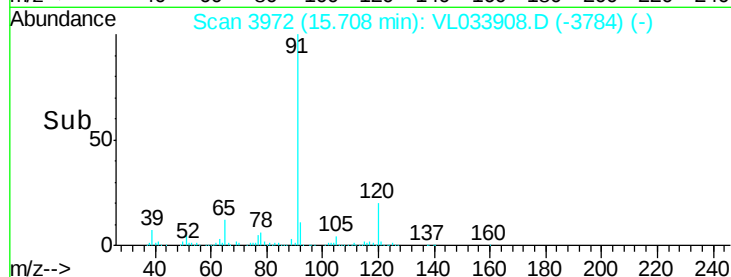
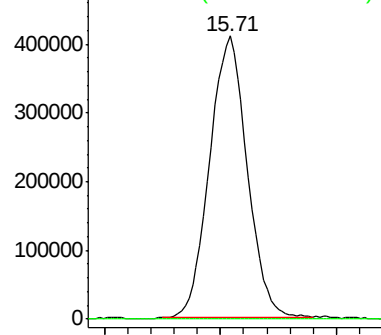
91 100

126 0.2 12.0 48.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 3.816 ppbv

RT: 15.98 min Scan# 4057

Delta R.T. -0.01 min

Lab File: VL033908.D

Acq: 13 Jun 2019 22:08

Tgt Ion: 105 Resp: 1090899

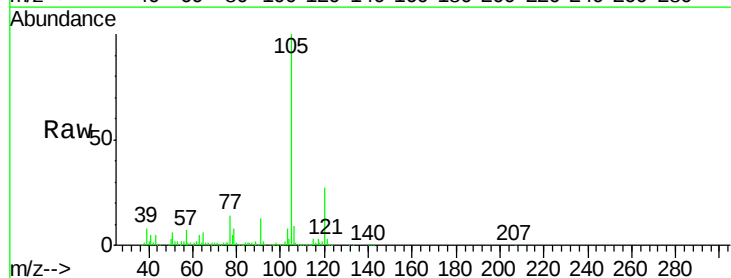
Ion Ratio Lower Upper

105 100

120 29.7 23.5 35.3

91 13.8 10.4 15.6

77 14.5 11.7 17.5

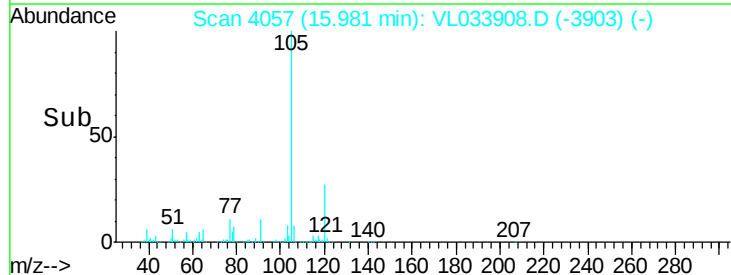
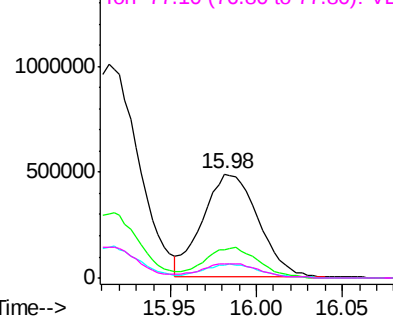


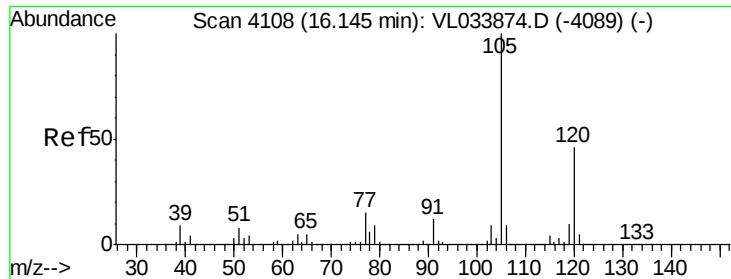
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 2.884 ppbv

RT: 16.14 min Scan# 4106

Delta R.T. -0.01 min

Lab File: VL033908.D

Acq: 13 Jun 2019 22:08

Instrument :

MSVOA_L

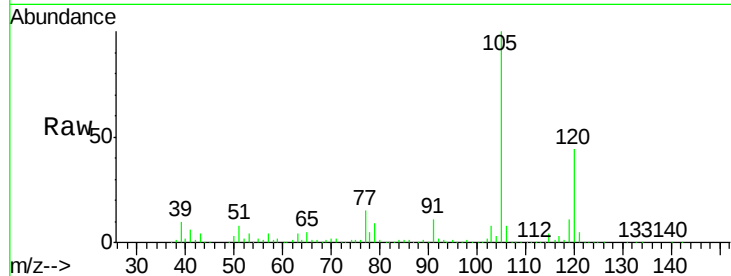
ClientSampleId :

Tot Ion:105 Resp: 812255

Ion Ratio Lower Upper

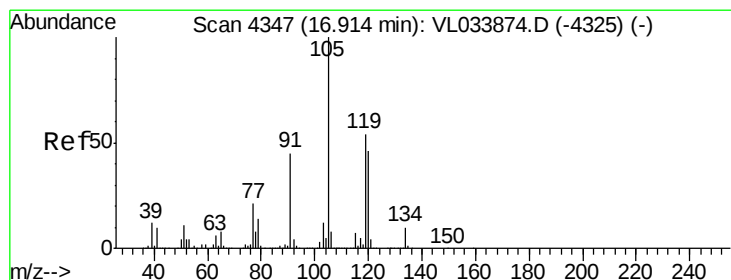
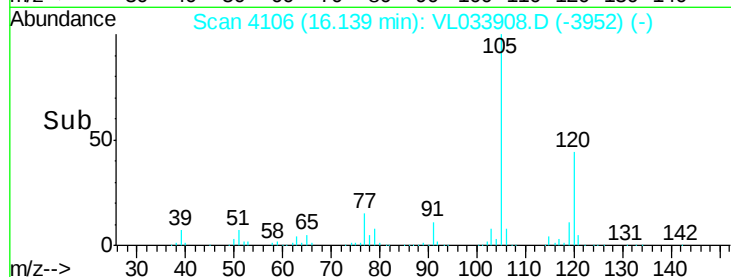
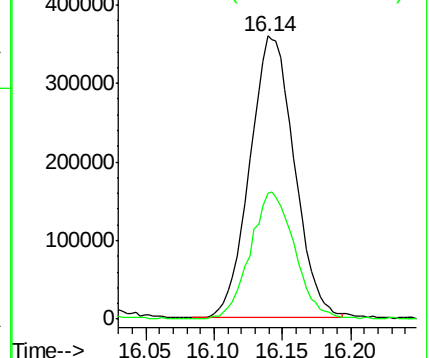
105 100

120 44.4 37.1 55.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 5.516 ppbv

RT: 16.91 min Scan# 4346

Delta R.T. -0.00 min

Lab File: VL033908.D

Acq: 13 Jun 2019 22:08

Tgt Ion:105 Resp: 1790521

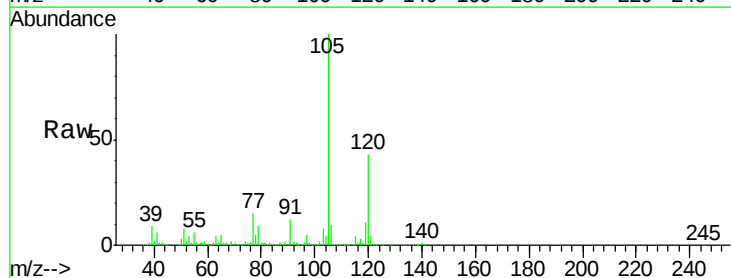
Ion Ratio Lower Upper

105 100

120 43.1 36.7 55.1

91 11.7 35.8 53.8#

77 14.4 16.9 25.3#

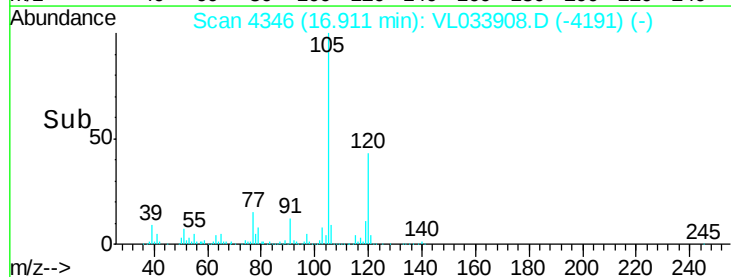
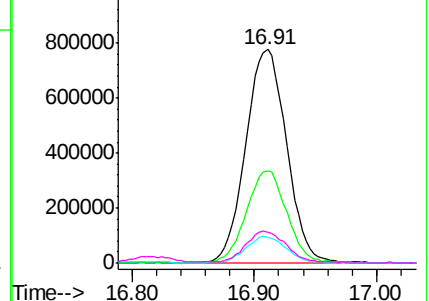


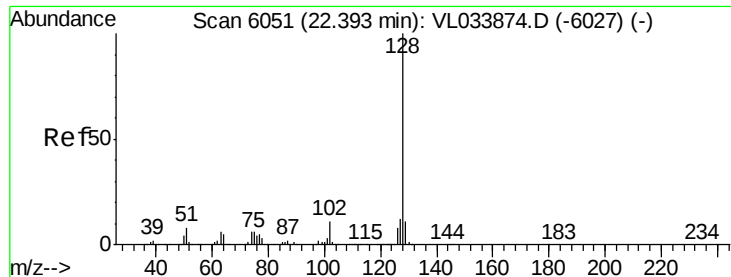
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#79

Naphthalene

Concen: 0.068 ppbv

RT: 22.40 min Scan# 6053

Delta R.T. 0.01 min

Lab File: VL033908.D

Acq: 13 Jun 2019 22:08

Instrument :

MSVOA_L

ClientSampled :

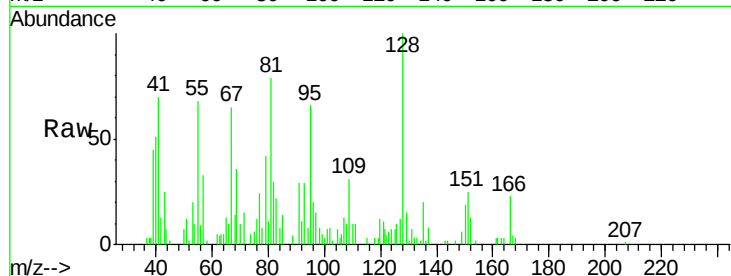
Tot Ion:128 Resp: 17601

Ion Ratio Lower Upper

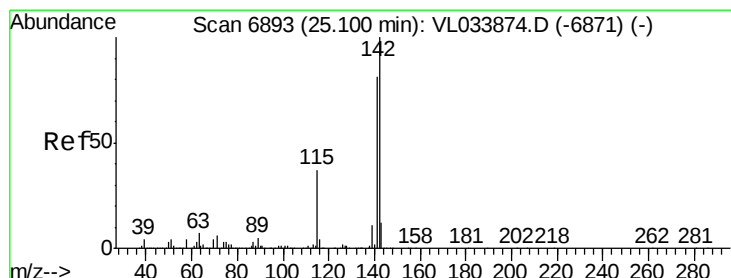
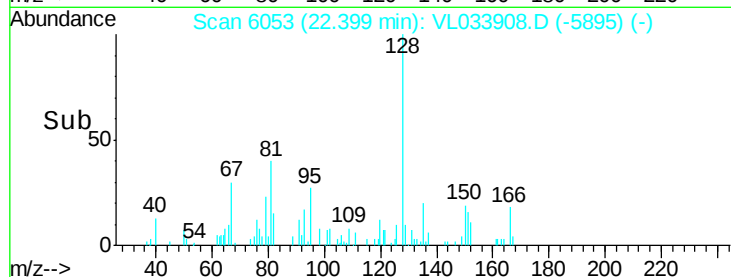
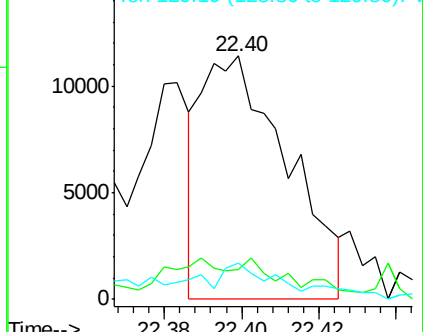
128 100

127 11.4 9.7 14.5

129 13.6 8.6 12.8#



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: 0.064 ppbv

RT: 25.10 min Scan# 6893

Delta R.T. 0.00 min

Lab File: VL033908.D

Acq: 13 Jun 2019 22:08

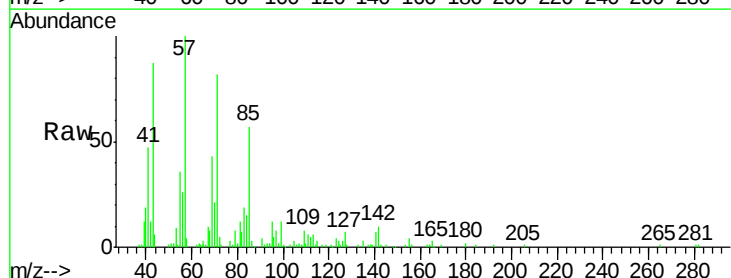
Tgt Ion:142 Resp: 6661

Ion Ratio Lower Upper

142 100

141 97.6 65.7 98.5

115 60.0 28.9 43.3#



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

