

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
 Data File : VD062511.D
 Acq On : 22 May 2019 19:02
 Operator : VA/AP
 Sample : K2996-10
 Misc : 5.45g/5ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: May 23 03:16:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 03:32:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.07	168	181204	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.28	114	263465	50.00	ug/l	0.05
63) Chlorobenzene-d5	12.44	117	180242	50.00	ug/l	0.07
72) 1,4-Dichlorobenzene-d4	14.52	152	21532	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.43	65	6209	3.20	ug/l	-0.03
Spiked Amount			Recovery	=	6.40%	
35) Dibromofluoromethane	6.94	113	175453	73.82	ug/l	0.00
Spiked Amount			Recovery	=	147.64%	
50) Toluene-d8	0.00	98	0	0.00	ug/l	
Spiked Amount			Recovery	=	0.00%	
62) 4-Bromofluorobenzene	13.65	95	666429	292.90	ug/l	0.09
Spiked Amount			Recovery	=	585.80%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.69	50	2586	2.060	ug/l #	43
6) Chloroethane	2.35	64	2671	4.180	ug/l #	1
11) Tert butyl alcohol	4.05	59	1766	19.725	ug/l #	1
13) Acrolein	2.99	56	671685	9033.877	ug/l #	1
15) Acrylonitrile	4.28	53	1286822	6272.358	ug/l #	43
16) Acetone	3.20	43	4473488	12870.175	ug/l #	59
17) Carbon Disulfide	3.36	76	60948	14.997	ug/l	99
19) Methyl tert-butyl Ether	4.20	73	5460	1.762	ug/l #	1
20) Methylene Chloride	3.70	84	77160	52.318	ug/l #	16
24) 1,1-Dichloroethane	5.10	63	164035	60.475	ug/l #	85
28) Bromochloromethane	6.46	49	1182	1.214	ug/l #	1
29) Tetrahydrofuran	6.71	42	627257	3612.757	ug/l #	1
30) Chloroform	6.68	83	6551306	1894.498	ug/l #	31
36) 1,1-Dichloropropene	7.18	75	5661	2.247	ug/l #	1
38) Carbon Tetrachloride	7.19	117	4440	1.186	ug/l #	12
39) Methylcyclohexane	9.04	83	10857331	5225.914	ug/l #	61
40) Benzene	7.52	78	2837715	574.335	ug/l #	89
41) Methacrylonitrile	6.50	41	748528	609.061	ug/l #	69
42) 1,2-Dichloroethane	7.65	62	4904	1.874	ug/l #	1
43) Isopropyl Acetate	9.26	43	64072632	49356.757	ug/l #	43
45) 1,2-Dichloropropane	8.99	63	33091	27.482	ug/l #	1
46) Dibromomethane	9.17	93	224082	205.306	ug/l #	1
47) Bromodichloromethane	9.58	83	6413221	2309.768	ug/l #	41
48) Methyl methacrylate	9.16	41	3785663	4333.450	ug/l #	59
49) 1,4-Dioxane	9.26	88	221	28.204	ug/l #	1
52) Toluene	10.69	92	1150223	340.057	ug/l	88
53) t-1,3-Dichloropropene	10.97	75	4854	2.100	ug/l #	1
54) cis-1,3-Dichloropropene	10.15	75	2876	1.192	ug/l #	1
55) 1,1,2-Trichloroethane	11.24	97	6314184	5507.969	ug/l #	33
56) Ethyl methacrylate	11.17	69	14311472	11678.019	ug/l #	69
58) 2-Chloroethyl Vinyl ether	9.92	63	269133	427.680	ug/l #	46
59) 2-Hexanone	11.70	43	8790792	14104.144	ug/l #	32
60) Dibromochloromethane	11.85	129	39753	18.054	ug/l #	11
61) 1,2-Dibromoethane	11.99	107	105106	74.398	ug/l #	1

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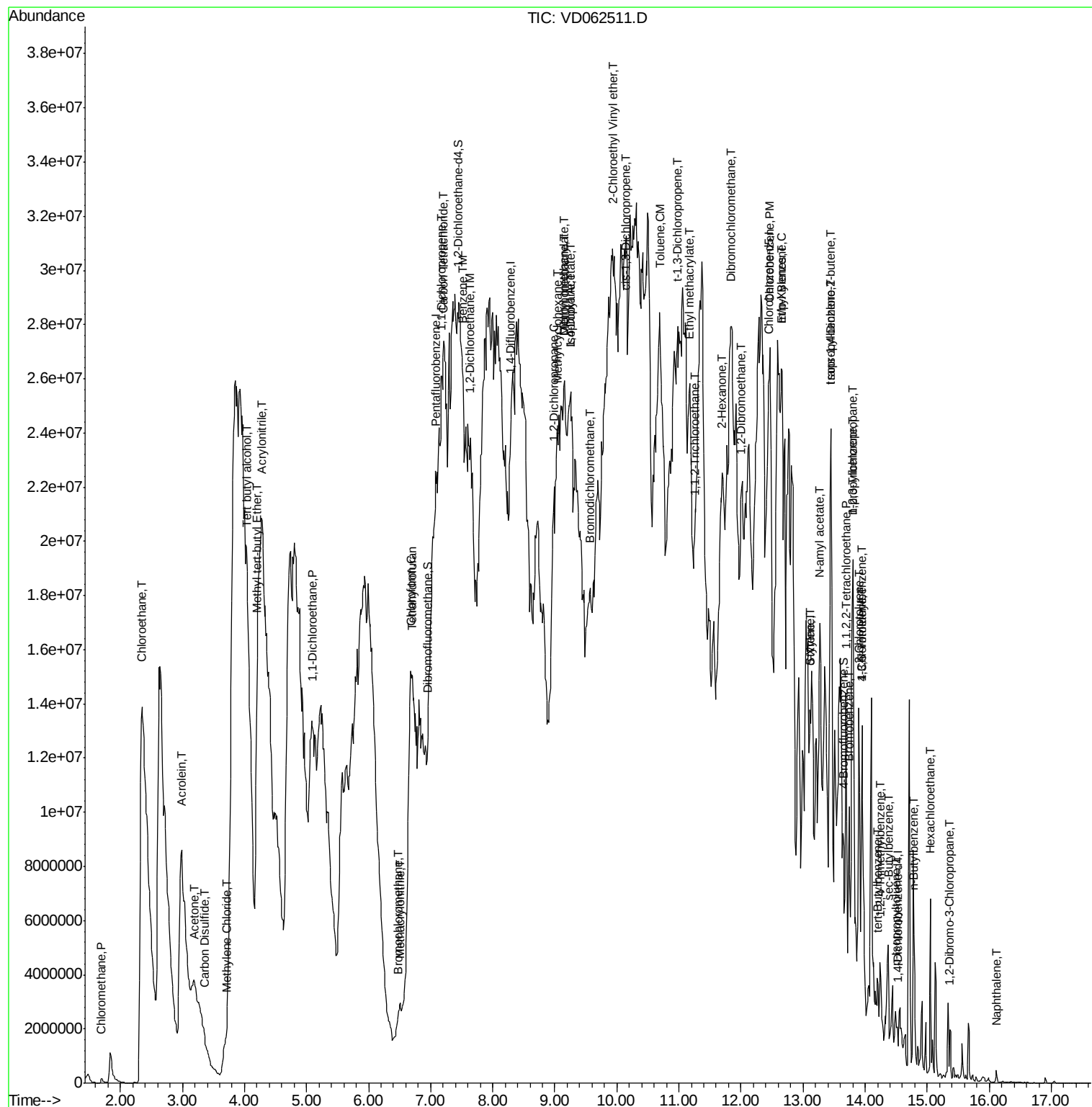
65) Chlorobenzene	12.47	112	41988	12.114	ug/l #	54
67) Ethyl Benzene	12.65	91	36222544	6067.235	ug/l #	74
68) m/p-Xylenes	12.65	106	12727937	5939.131	ug/l	89
69) o-Xylene	13.10	106	467281	231.094	ug/l	77
70) Styrene	13.10	104	29773	8.655	ug/l #	1
73) Isopropylbenzene	13.46	105	20157206	14851.578	ug/l	79
74) N-amyl acetate	13.27	43	1683914	5023.369	ug/l #	47
75) 1,1,2,2-Tetrachloroethane	13.69	83	176204	719.620	ug/l #	81
76) 1,2,3-Trichloropropane	13.80	75	149465	589.322	ug/l #	1
77) Bromobenzene	13.73	156	1646	4.275	ug/l #	1
78) n-propylbenzene	13.80	91	17433522	11089.036	ug/l #	70
79) 2-Chlorotoluene	13.90	91	815624	854.888	ug/l #	38
80) 1,3,5-Trimethylbenzene	13.95	105	4269106	3632.760	ug/l	98
81) trans-1,4-Dichloro-2-buten	13.45	75	313939	4389.023	ug/l #	3
82) 4-Chlorotoluene	13.95	91	455934	414.954	ug/l #	38
83) tert-Butylbenzene	14.20	119	355951	273.065	ug/l	89
84) 1,2,4-Trimethylbenzene	14.24	105	1275717	1059.418	ug/l	96
85) sec-Butylbenzene	14.37	105	1734672	1276.225	ug/l	98
86) p-Isopropyltoluene	14.49	119	620120	503.442	ug/l	91
89) n-Butylbenzene	14.80	91	1749805	1471.966	ug/l	97
90) Hexachloroethane	15.05	117	285172	837.711	ug/l #	20
92) 1,2-Dibromo-3-Chloropropan	15.37	75	5773	124.211	ug/l #	1
95) Naphthalene	16.11	128	266045	427.701	ug/l	98

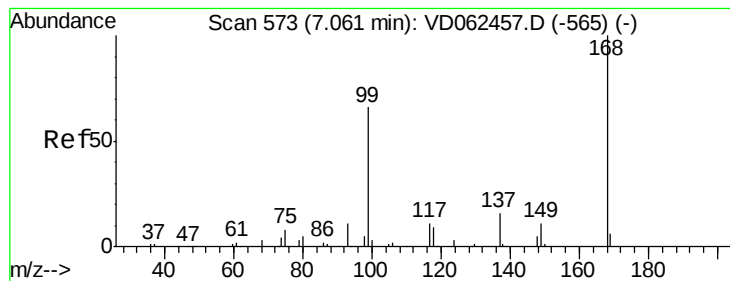
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.07 min Scan# 574

Delta R.T. 0.01 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

Instrument :

MSVOA_D

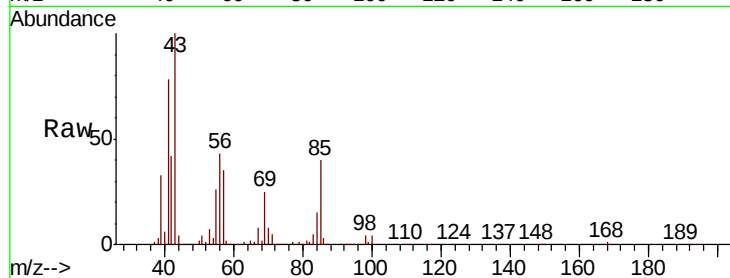
ClientSampleId :

Tot Ion:168 Resp: 181204

Ion Ratio Lower Upper

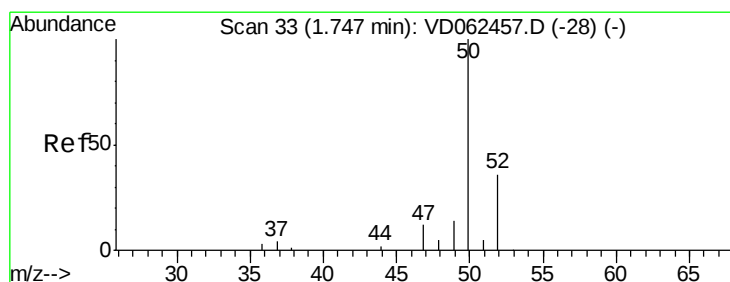
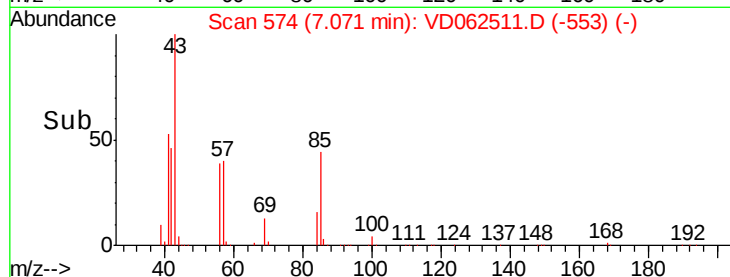
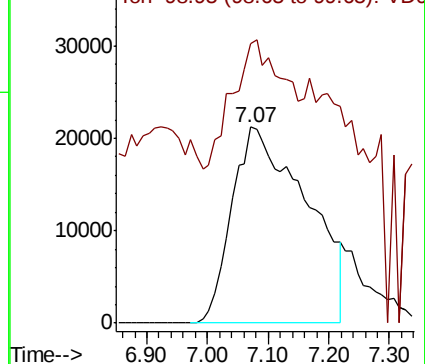
168 100

99 142.5 46.5 69.7#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 2.060 ug/l

RT: 1.69 min Scan# 27

Delta R.T. -0.06 min

Lab File: VD062511.D

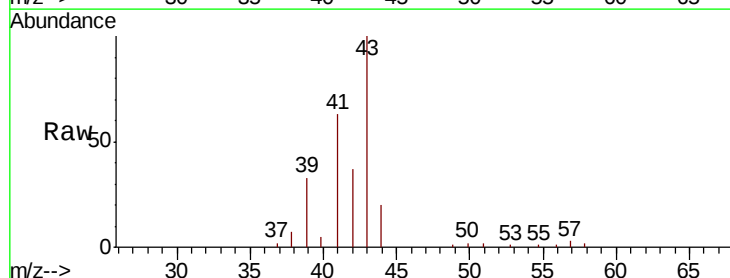
Acq: 22 May 2019 19:02

Tgt Ion: 50 Resp: 2586

Ion Ratio Lower Upper

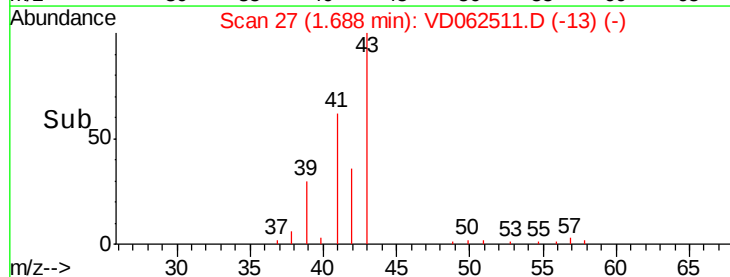
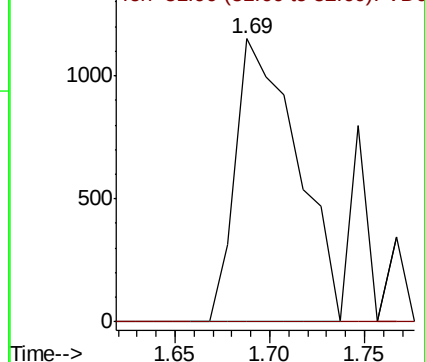
50 100

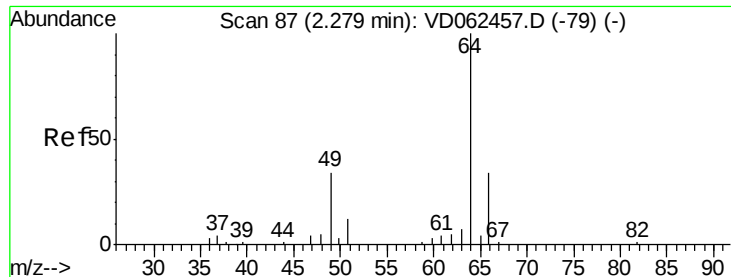
52 0.0 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#6

Chloroethane

Concen: 4.180 ug/l

RT: 2.35 min Scan# 94

Delta R.T. 0.07 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

Instrument :

MSVOA_D

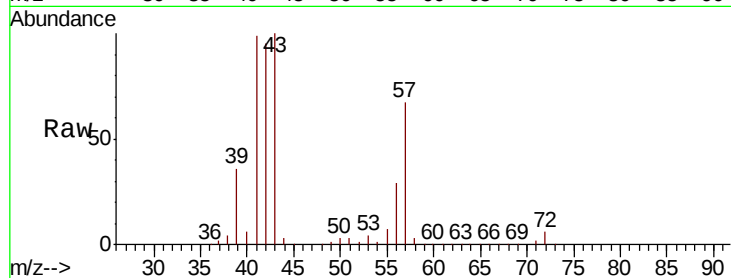
ClientSampled :

Tot Ion: 64 Resp: 2671

Ion Ratio Lower Upper

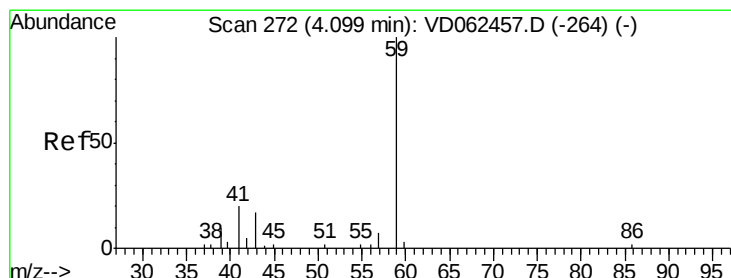
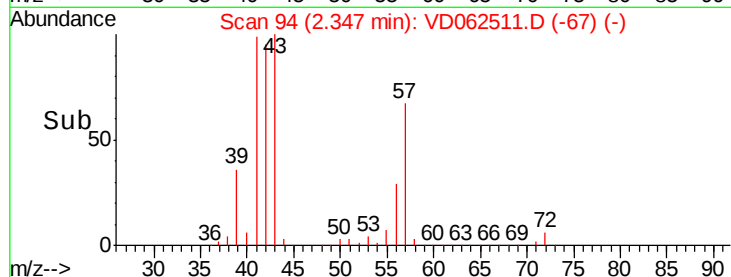
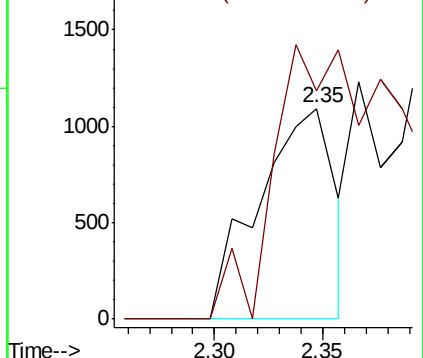
64 100

66 108.6 25.6 38.4#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



#11

Tert butyl alcohol

Concen: 19.725 ug/l

RT: 4.05 min Scan# 267

Delta R.T. -0.05 min

Lab File: VD062511.D

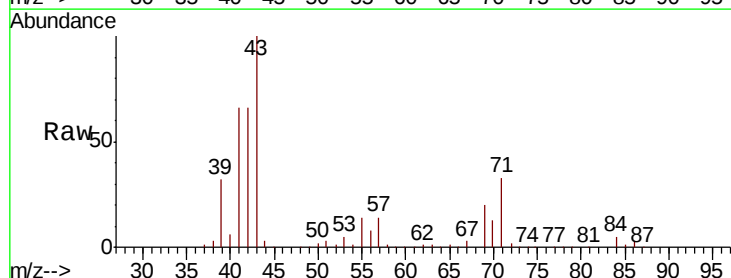
Acq: 22 May 2019 19:02

Tgt Ion: 59 Resp: 1766

Ion Ratio Lower Upper

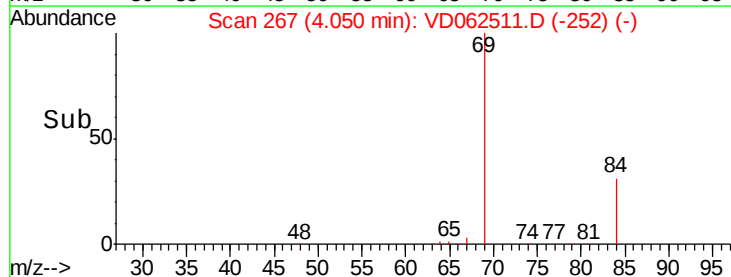
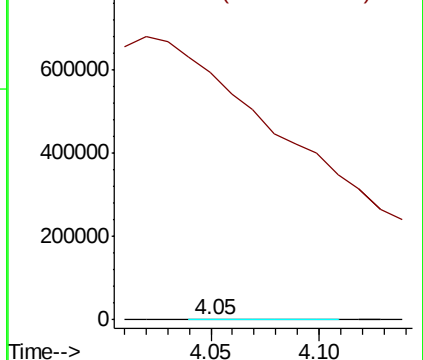
59 100

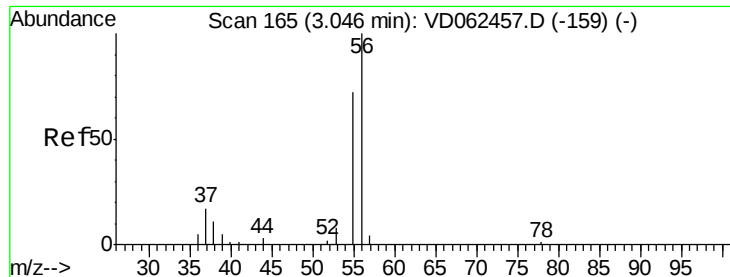
57 80947.8 6.9 10.3#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 9033.877 ug/l

RT: 2.99 min Scan# 159

Delta R.T. -0.06 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

Instrument :

MSVOA_D

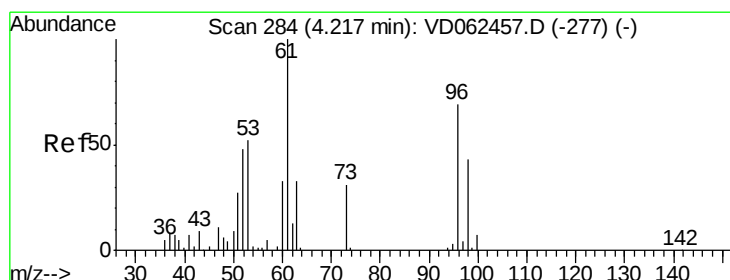
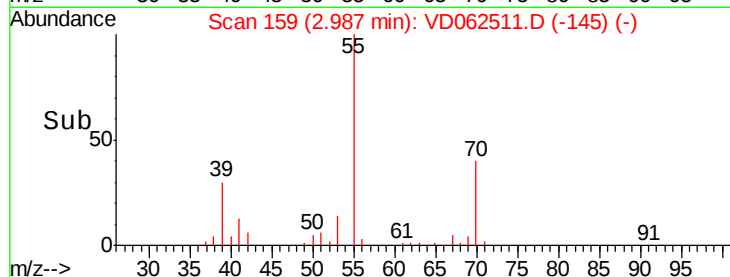
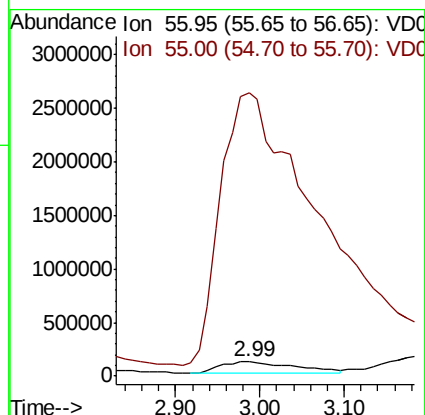
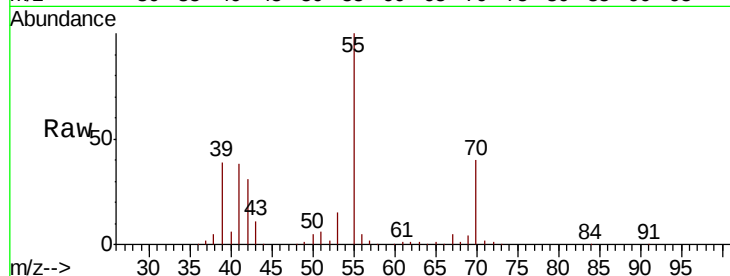
ClientSampleId :

Tot Ion: 56 Resp: 671685

Ion Ratio Lower Upper

56 100

55 1976.7 51.4 77.2#



#15

Acrylonitrile

Concen: 6272.358 ug/l

RT: 4.28 min Scan# 290

Delta R.T. 0.06 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

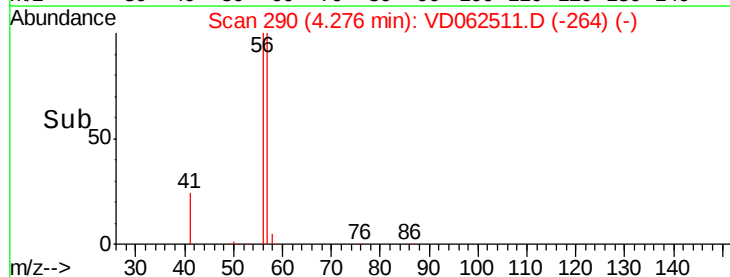
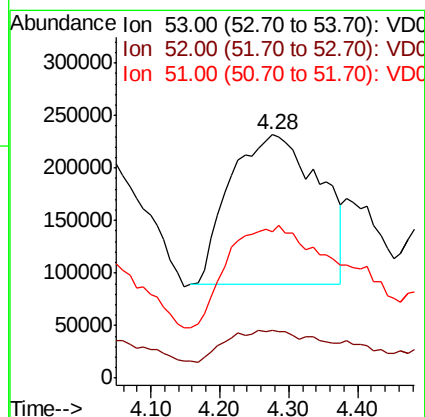
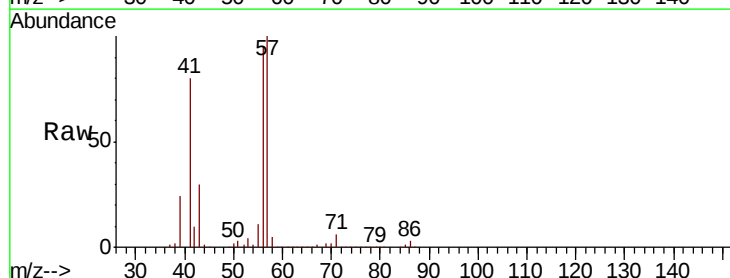
Tgt Ion: 53 Resp: 1286822

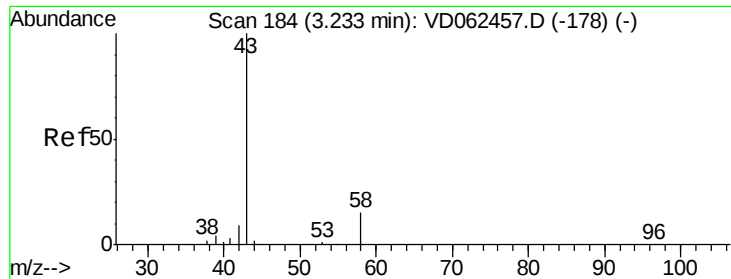
Ion Ratio Lower Upper

53 100

52 19.7 65.0 97.4#

51 60.3 32.6 48.8#





#16

Acetone

Concen: 12870.175 ug/l

RT: 3.20 min Scan# 181

Delta R.T. -0.03 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

Instrument :

MSVOA_D

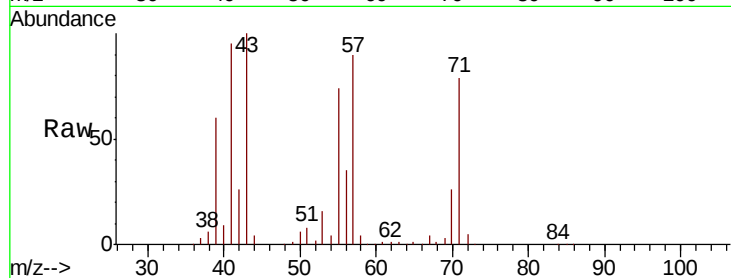
ClientSampled :

Tot Ion: 43 Resp: 4473488

Ion Ratio Lower Upper

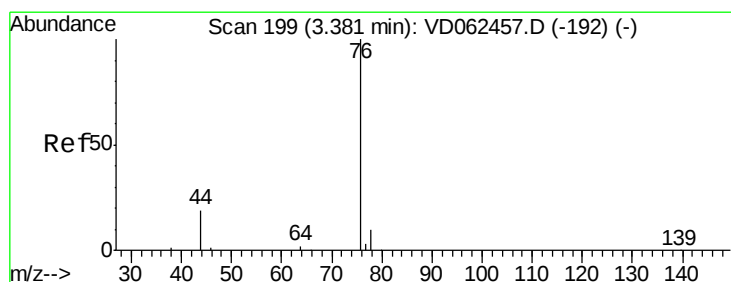
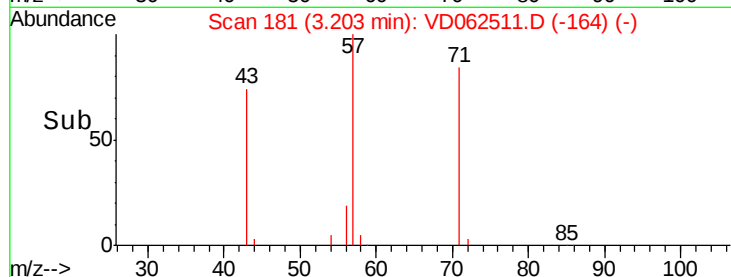
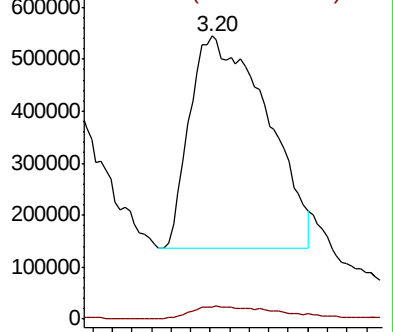
43 100

58 4.4 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#17

Carbon Disulfide

Concen: 14.997 ug/l

RT: 3.36 min Scan# 197

Delta R.T. -0.02 min

Lab File: VD062511.D

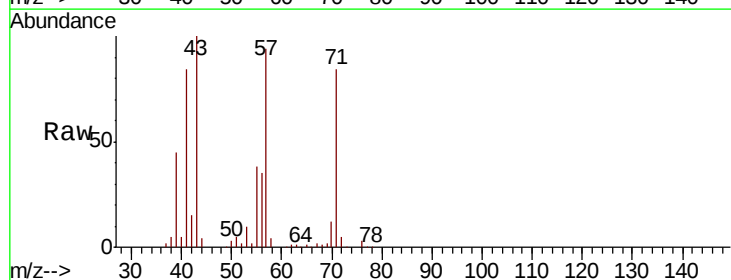
Acq: 22 May 2019 19:02

Tgt Ion: 76 Resp: 60948

Ion Ratio Lower Upper

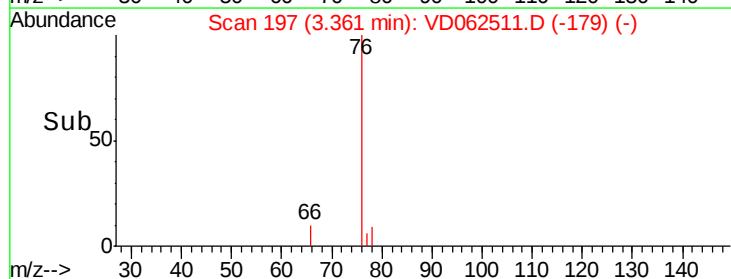
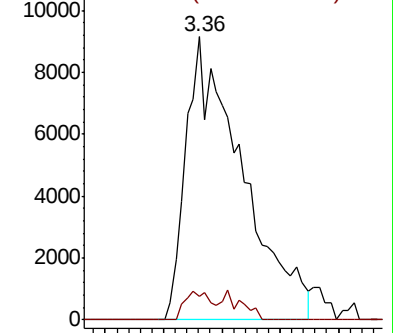
76 100

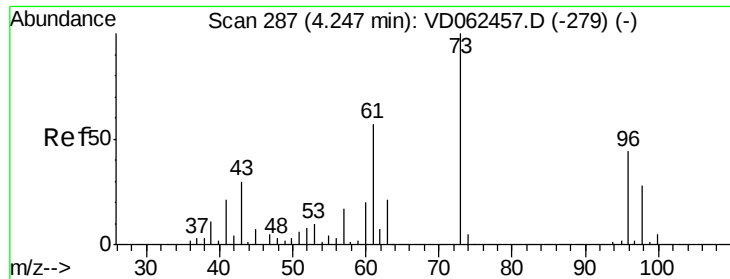
78 8.5 7.2 10.8



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



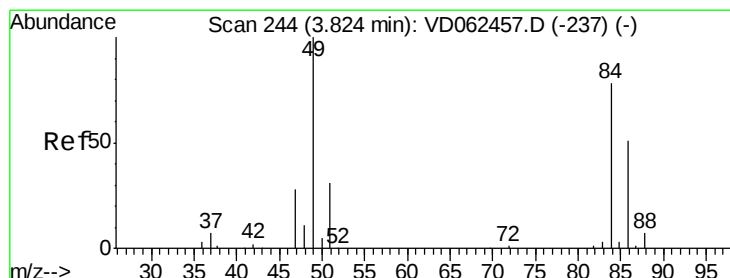
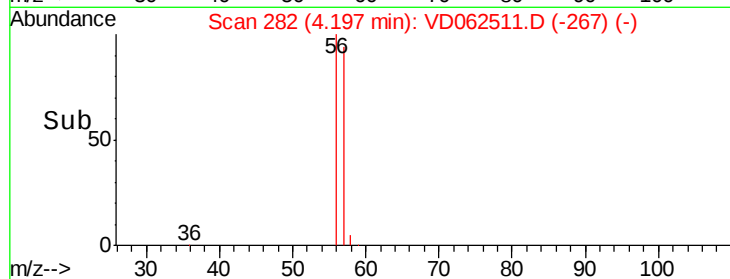
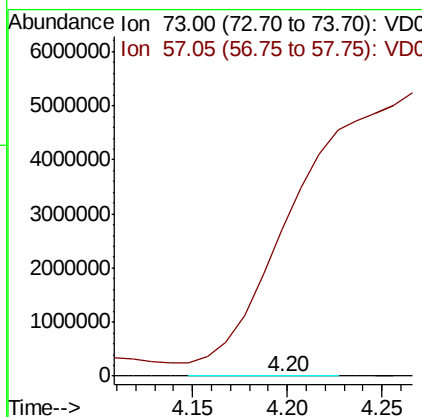
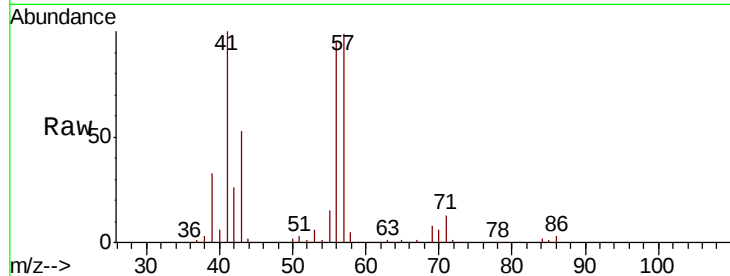


#19

Methyl tert-butyl Ether
 Concen: 1.762 ug/l
 RT: 4.20 min Scan# 282
 Delta R.T. -0.05 min
 Lab File: VD062511.D
 Acq: 22 May 2019 19:02

Instrument :
 MSVOA_D
 ClientSampleId :

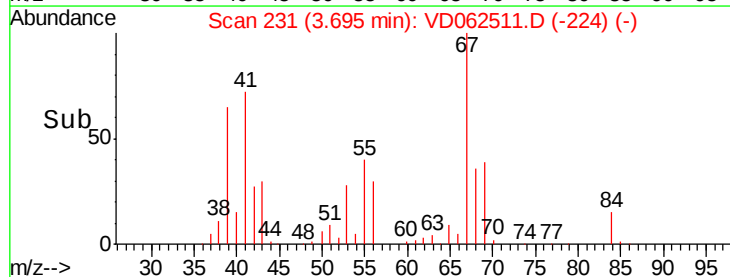
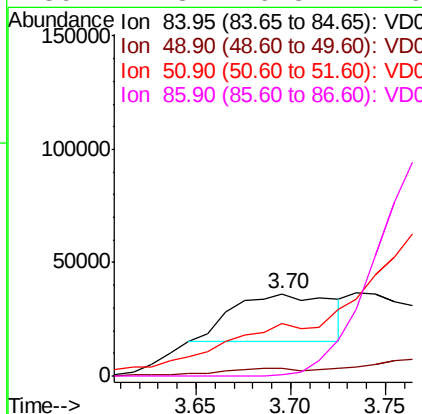
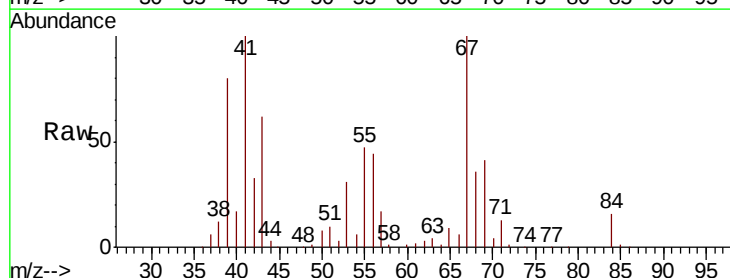
Tot Ion: 73 Resp: 5460
 Ion Ratio Lower Upper
 73 100
 57 178677.6 16.3 24.5#

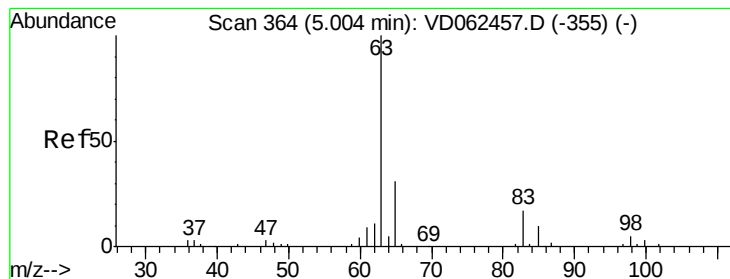


#20

Methylene Chloride
 Concen: 52.318 ug/l
 RT: 3.70 min Scan# 231
 Delta R.T. -0.13 min
 Lab File: VD062511.D
 Acq: 22 May 2019 19:02

Tgt Ion: 84 Resp: 77160
 Ion Ratio Lower Upper
 84 100
 49 8.7 94.0 141.0#
 51 63.2 29.0 43.4#
 86 2.3 49.8 74.6#





#24

1,1-Dichloroethane

Concen: 60.475 ug/l

RT: 5.10 min Scan# 374

Delta R.T. 0.10 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

Instrument :

MSVOA_D

ClientSampleId :

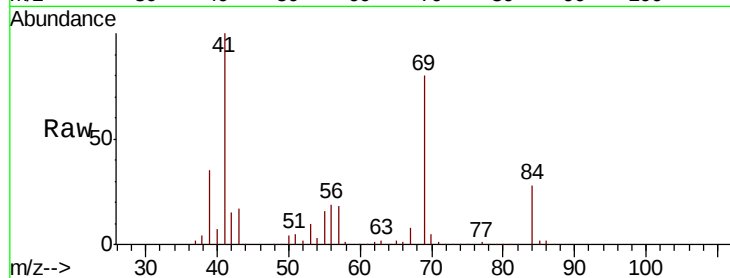
Tot Ion: 63 Resp: 164035

Ion Ratio Lower Upper

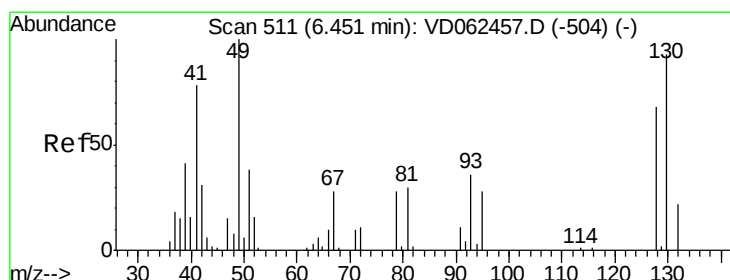
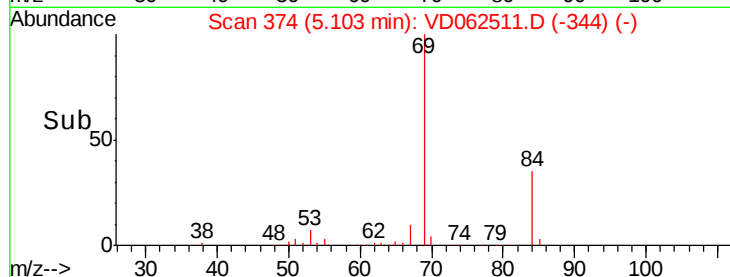
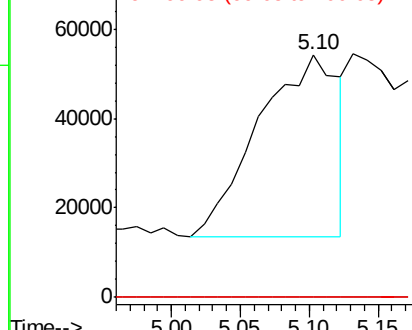
63 100

98 0.0 2.8 8.4#

100 0.0 1.8 5.5#



Abundance Ion 62.95 (62.65 to 63.65): VDC
Ion 97.95 (97.65 to 98.65): VDC
Ion 99.95 (99.65 to 100.65): VDC



#28

Bromochloromethane

Concen: 1.214 ug/l

RT: 6.46 min Scan# 512

Delta R.T. 0.01 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

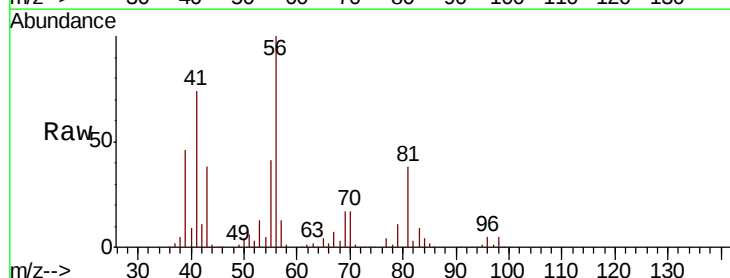
Tgt Ion: 49 Resp: 1182

Ion Ratio Lower Upper

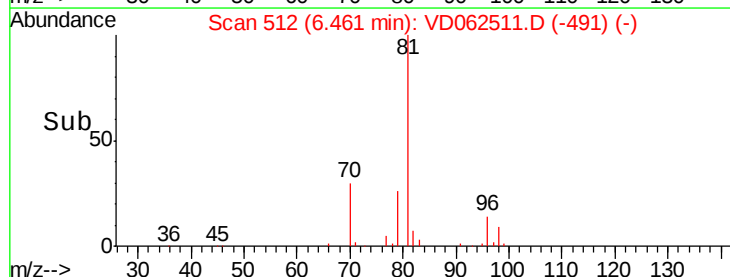
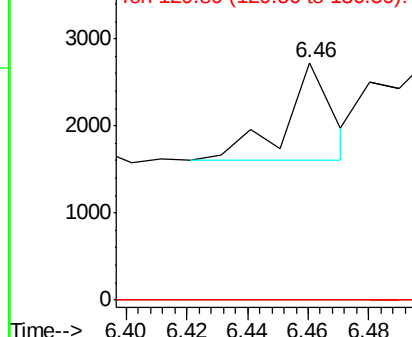
49 100

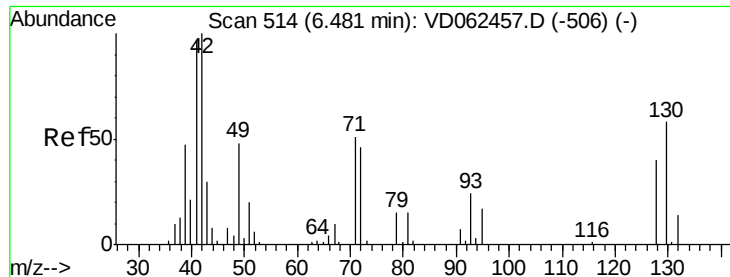
129 0.0 0.0 6.6

130 0.0 86.7 130.1#



Abundance Ion 48.90 (48.60 to 49.60): VDC
Ion 128.80 (128.50 to 129.50): VDC
Ion 129.80 (129.50 to 130.50): VDC





#29

Tetrahydrofuran

Concen: 3612.757 ug/l

RT: 6.71 min Scan# 537

Delta R.T. 0.23 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

Instrument :

MSVOA_D

ClientSampleId :

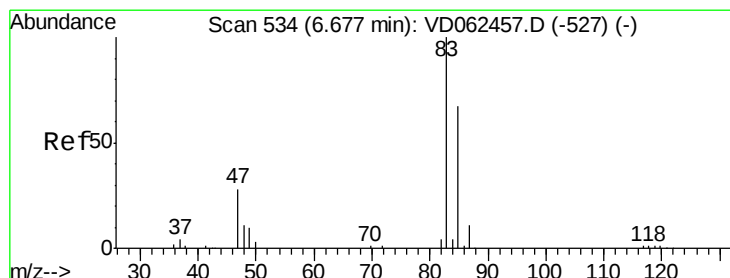
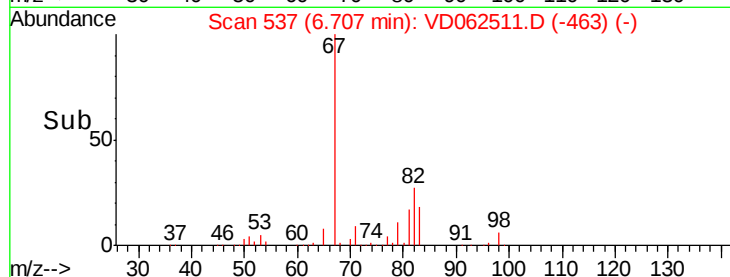
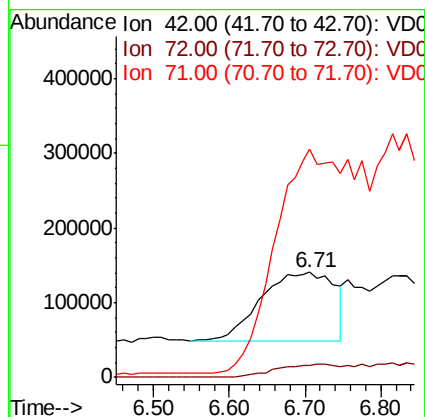
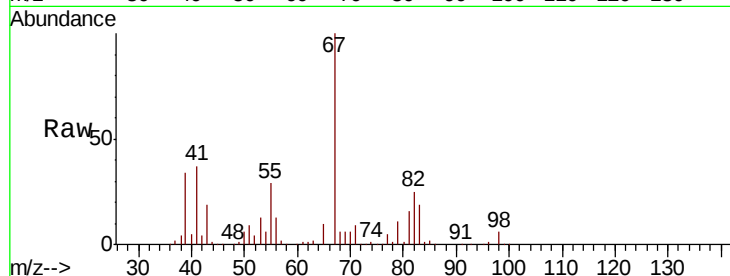
Tot Ion: 42 Resp: 627257

Ion Ratio Lower Upper

42 100

72 15.8 37.8 56.6#

71 271.9 36.7 55.1#



#30

Chloroform

Concen: 1894.498 ug/l

RT: 6.68 min Scan# 534

Delta R.T. -0.00 min

Lab File: VD062511.D

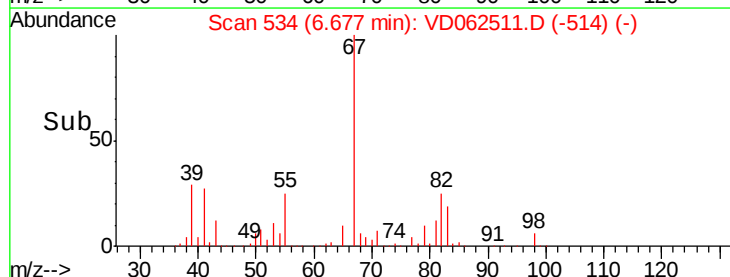
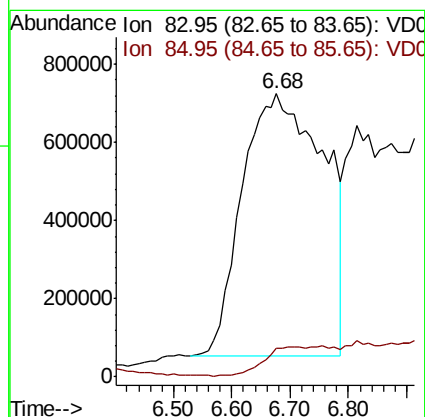
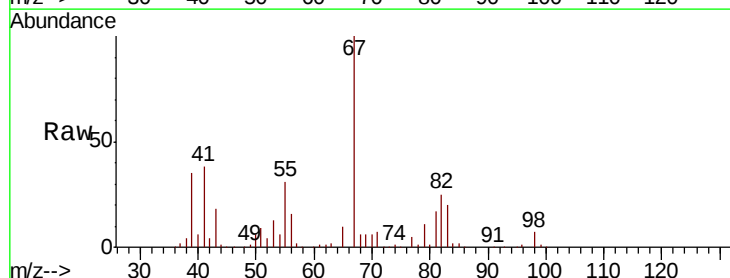
Acq: 22 May 2019 19:02

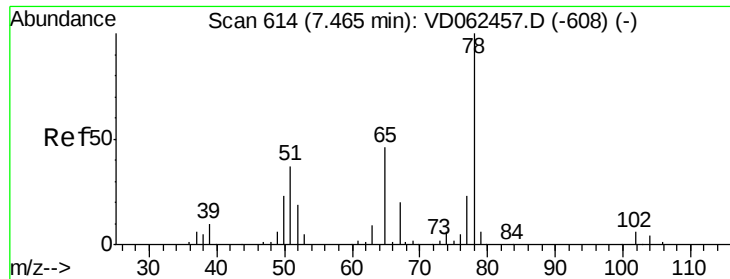
Tgt Ion: 83 Resp: 6551306

Ion Ratio Lower Upper

83 100

85 10.0 51.7 77.5#

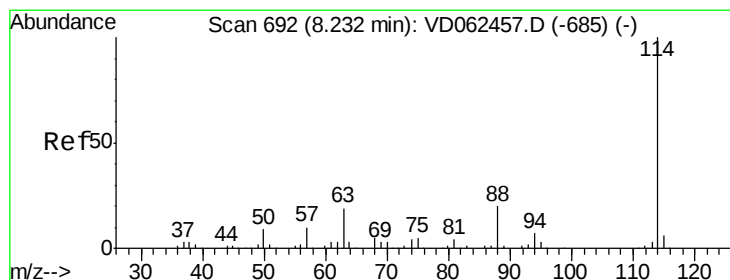
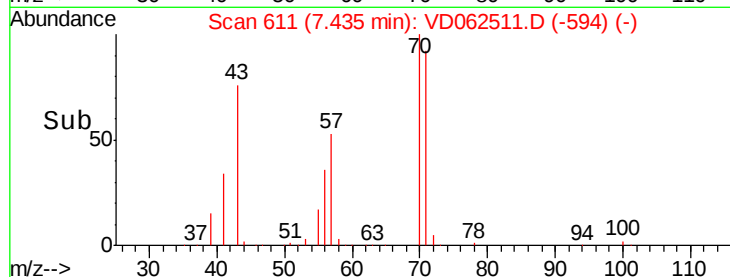
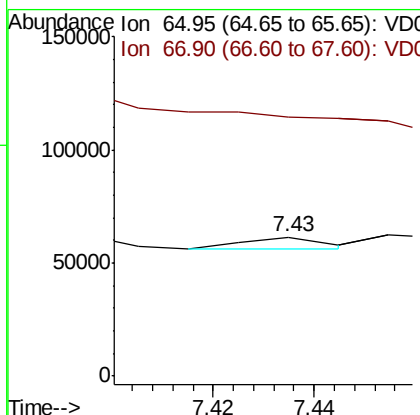
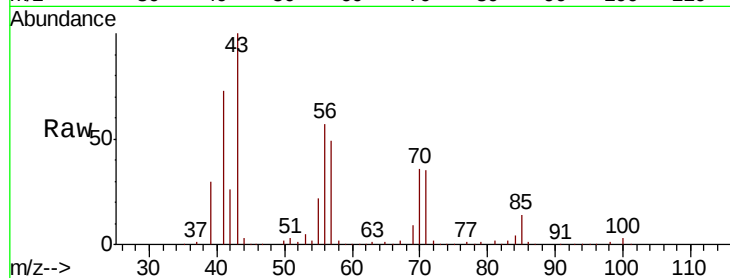




#33
 1,2-Dichloroethane-d4
 Concen: 3.201 ug/l
 RT: 7.43 min Scan# 611
 Delta R.T. -0.03 min
 Lab File: VD062511.D
 Acq: 22 May 2019 19:02

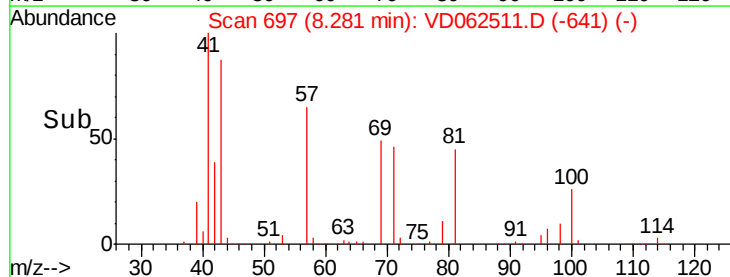
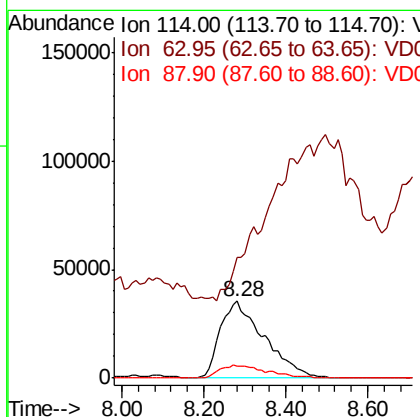
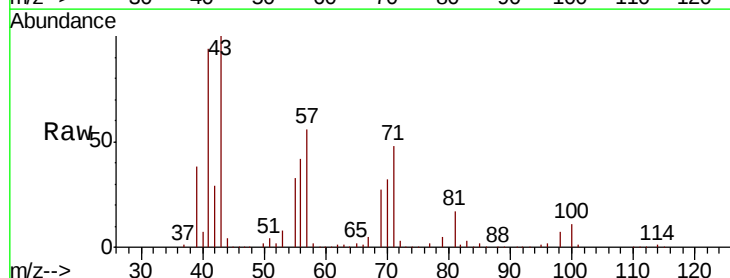
Instrument :
 MSVOA_D
 ClientSampleID :

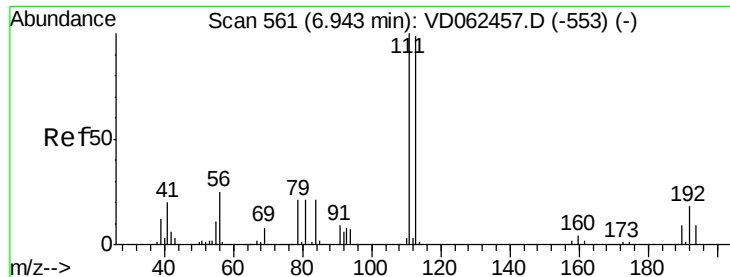
Tot Ion: 65 Resp: 6209
 Ion Ratio Lower Upper
 65 100
 67 185.9 0.0 98.0#



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.28 min Scan# 697
 Delta R.T. 0.05 min
 Lab File: VD062511.D
 Acq: 22 May 2019 19:02

Tgt Ion: 114 Resp: 263465
 Ion Ratio Lower Upper
 114 100
 63 158.0 0.0 32.4#
 88 15.3 0.0 33.6

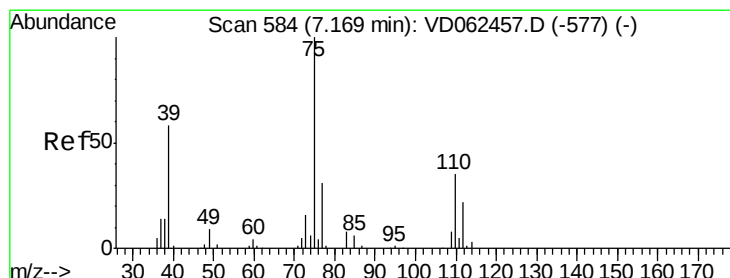
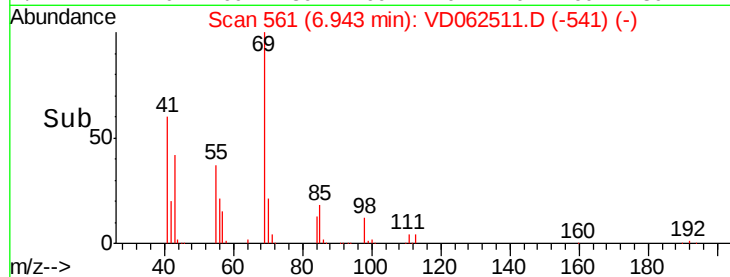
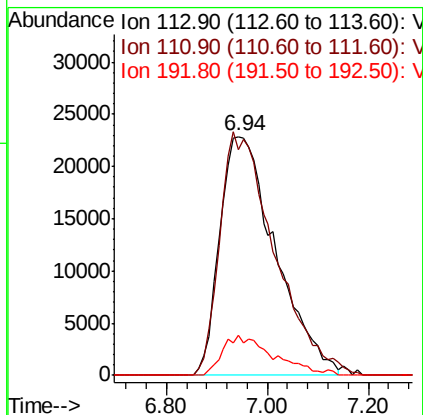
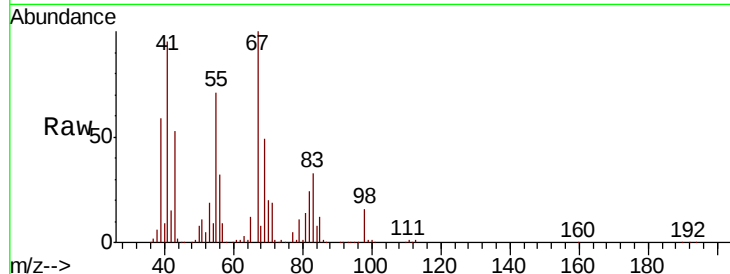




#35
 Dibromofluoromethane
 Concen: 73.820 ug/l
 RT: 6.94 min Scan# 561
 Delta R.T. -0.00 min
 Lab File: VD062511.D
 Acq: 22 May 2019 19:02

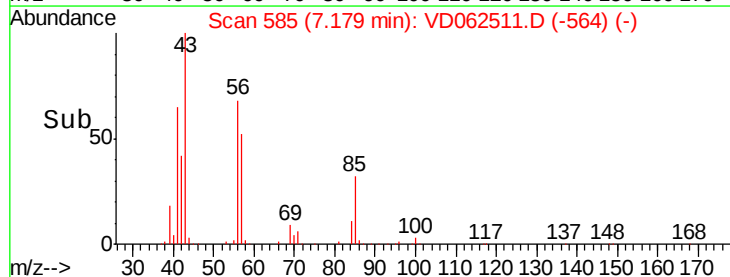
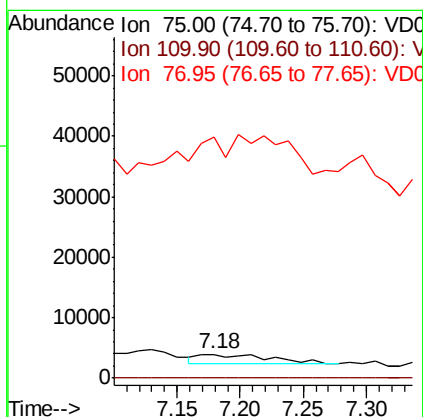
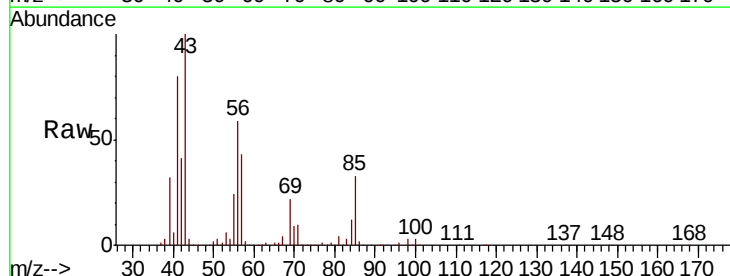
Instrument :
 MSVOA_D
 ClientSampleId :

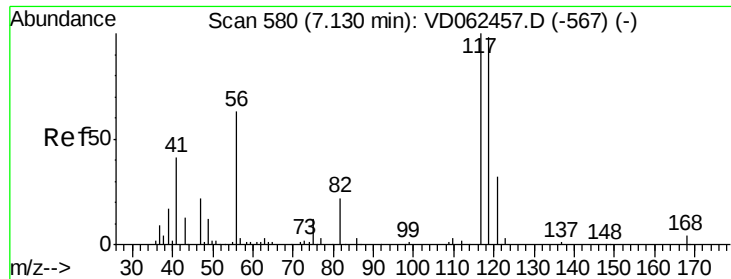
Tot Ion:113 Resp: 175453
 Ion Ratio Lower Upper
 113 100
 111 94.5 78.5 117.7
 192 16.9 13.0 19.4



#36
 1,1-Dichloropropene
 Concen: 2.247 ug/l
 RT: 7.18 min Scan# 585
 Delta R.T. 0.01 min
 Lab File: VD062511.D
 Acq: 22 May 2019 19:02

Tgt Ion: 75 Resp: 5661
 Ion Ratio Lower Upper
 75 100
 110 0.0 19.1 57.1#
 77 1031.9 25.6 38.4#





#38

Carbon Tetrachloride

Concen: 1.186 ug/l

RT: 7.19 min Scan# 586

Delta R.T. 0.06 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

Instrument :

MSVOA_D

ClientSampled :

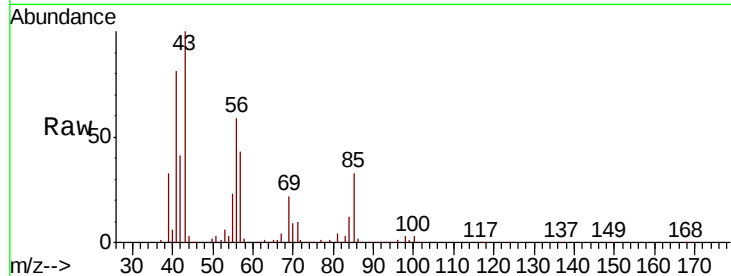
Tot Ion:117 Resp: 4440

Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.8#

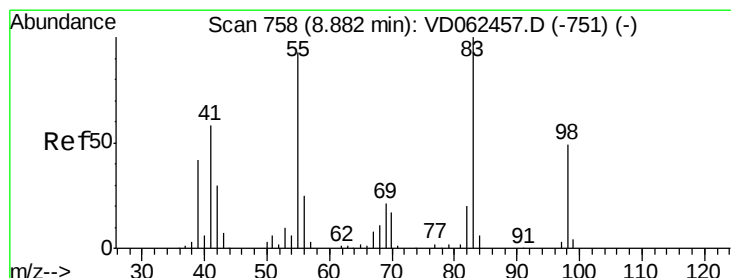
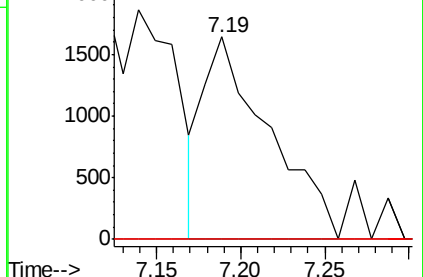
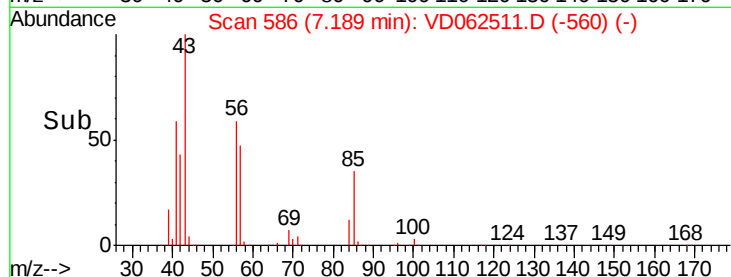
121 0.0 25.9 38.9#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#39

Methylcyclohexane

Concen: 5225.914 ug/l

RT: 9.04 min Scan# 774

Delta R.T. 0.16 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

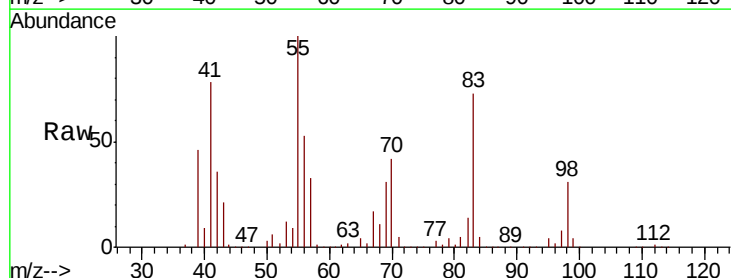
Tgt Ion: 83 Resp:10857331

Ion Ratio Lower Upper

83 100

55 136.9 68.2 102.4#

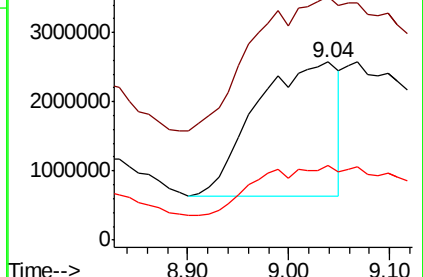
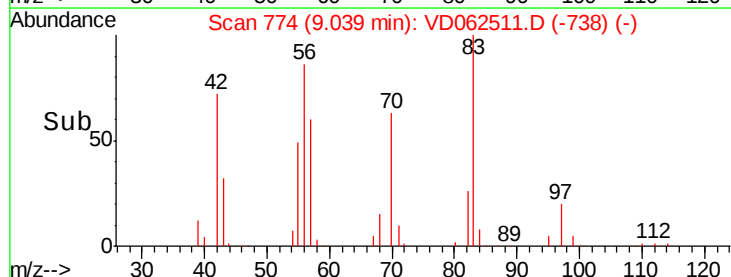
98 42.3 38.2 57.4

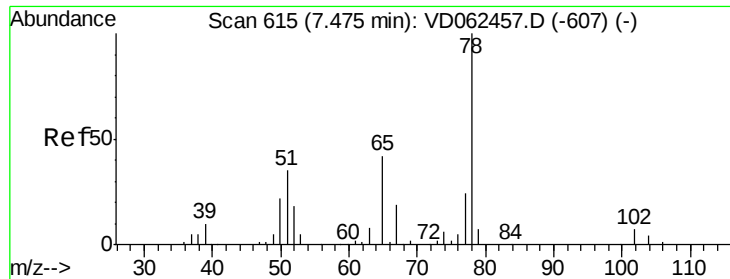


Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC





#40

Benzene

Concen: 574.335 ug/l

RT: 7.52 min Scan# 620

Delta R.T. 0.05 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

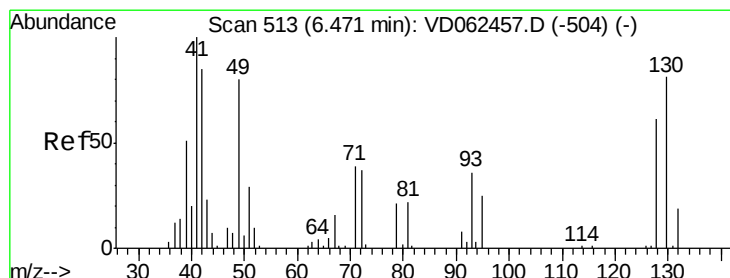
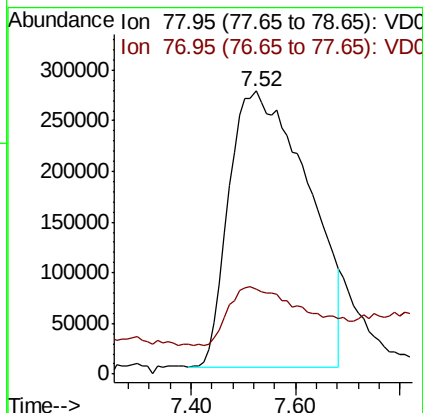
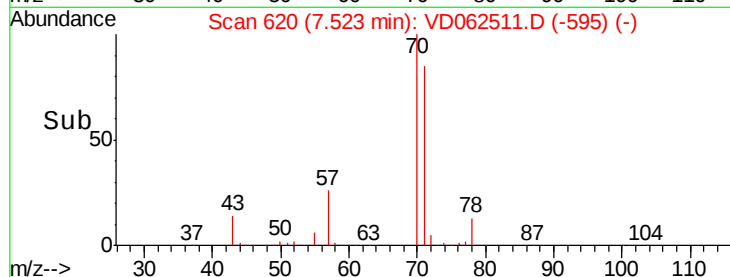
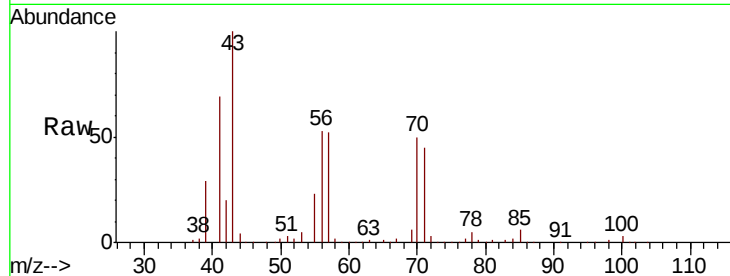
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 78 Resp: 2837715

Ion Ratio Lower Upper

78 100

77 29.9 19.7 29.5#



#41

Methacrylonitrile

Concen: 609.061 ug/l

RT: 6.50 min Scan# 516

Delta R.T. 0.03 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

Tgt Ion: 41 Resp: 748528

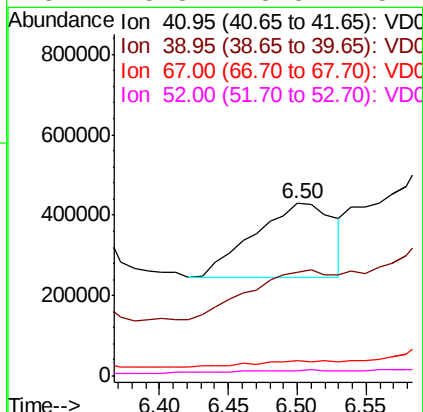
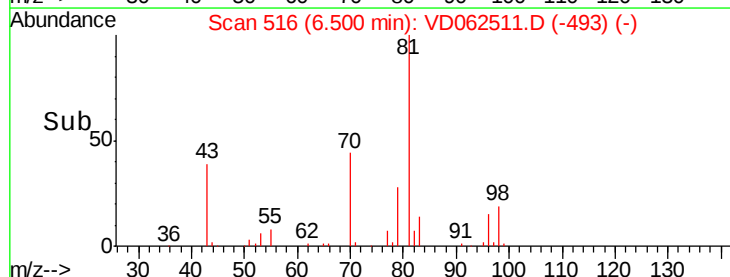
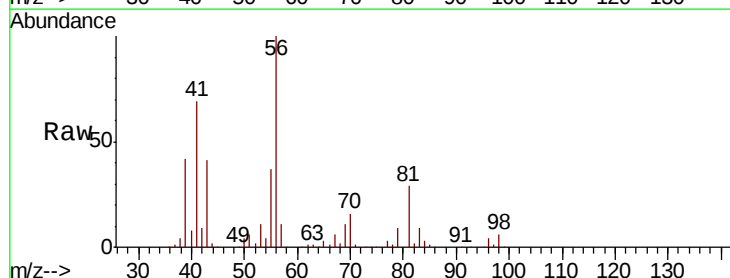
Ion Ratio Lower Upper

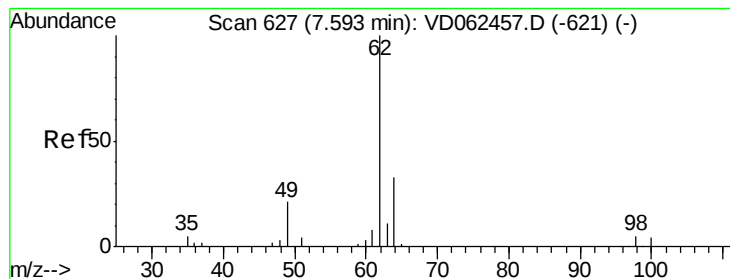
41 100

39 60.4 34.1 51.1#

67 8.6 23.8 35.6#

52 3.3 8.8 13.2#





#42

1,2-Dichloroethane

Concen: 1.874 ug/l

RT: 7.65 min Scan# 633

Delta R.T. 0.06 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

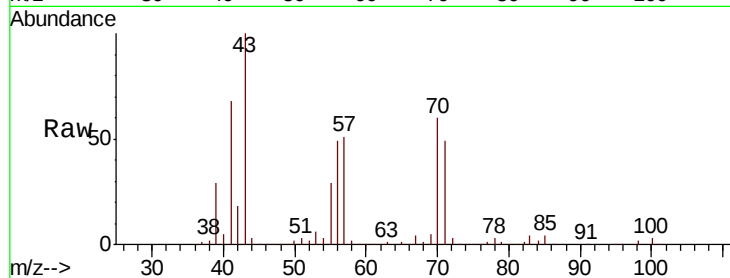
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 62 Resp: 4904

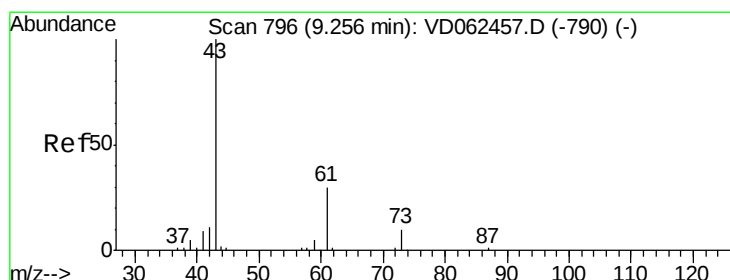
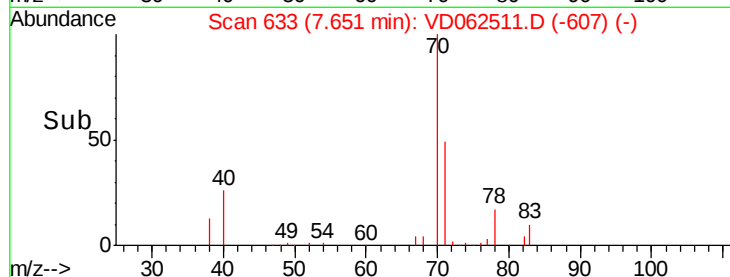
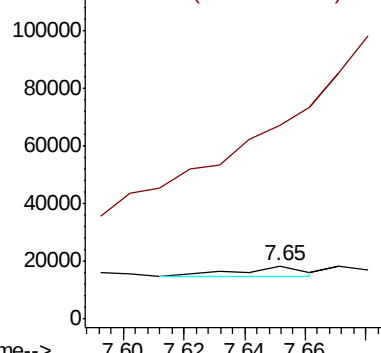
Ion Ratio Lower Upper

62 100

98 364.2 0.0 17.8#



Abundance Ion 61.95 (61.65 to 62.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



#43

Isopropyl Acetate

Concen: 49356.757 ug/l

RT: 9.26 min Scan# 796

Delta R.T. -0.00 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

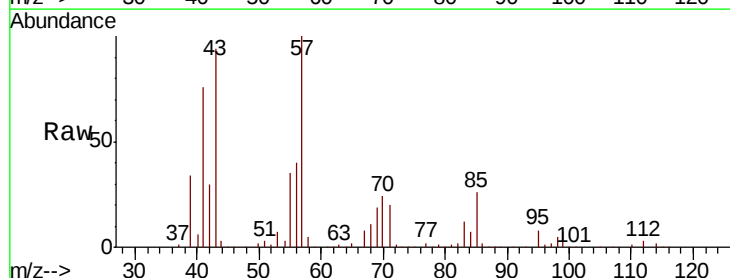
Tgt Ion: 43 Resp: 64072632

Ion Ratio Lower Upper

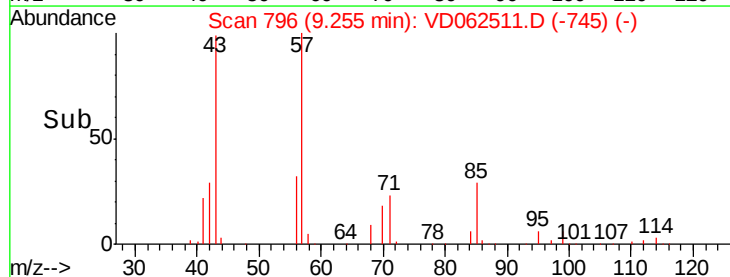
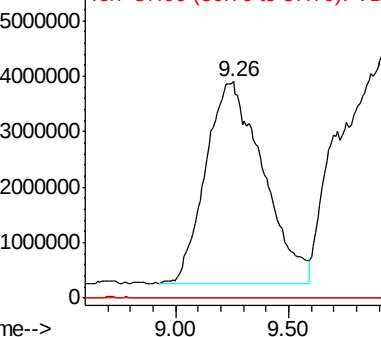
43 100

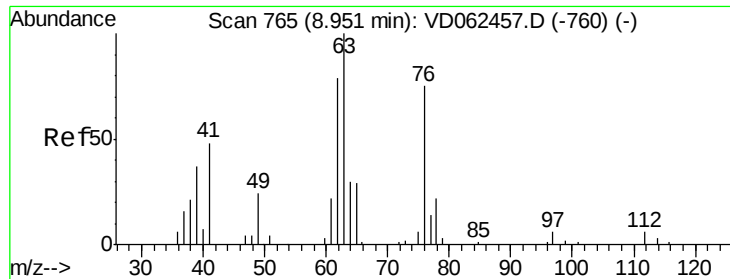
61 0.1 25.1 37.7#

87 0.1 0.0 0.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 87.00 (86.70 to 87.70): VDC





#45

1,2-Dichloropropane

Concen: 27.482 ug/l

RT: 8.99 min Scan# 769

Delta R.T. 0.04 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

Instrument :

MSVOA_D

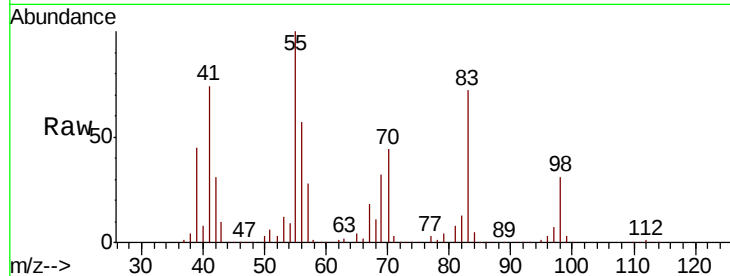
ClientSampleId :

Tot Ion: 63 Resp: 33091

Ion Ratio Lower Upper

63 100

65 223.6 23.8 35.6#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

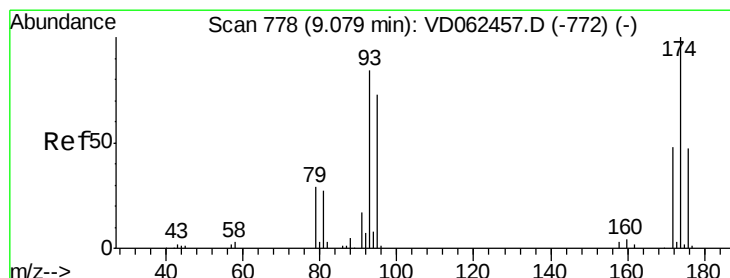
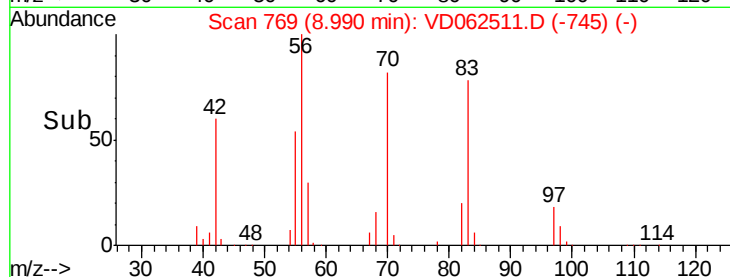
150000

100000

50000

0

Time--> 8.90 8.95 9.00



#46

Dibromomethane

Concen: 205.306 ug/l

RT: 9.17 min Scan# 787

Delta R.T. 0.09 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

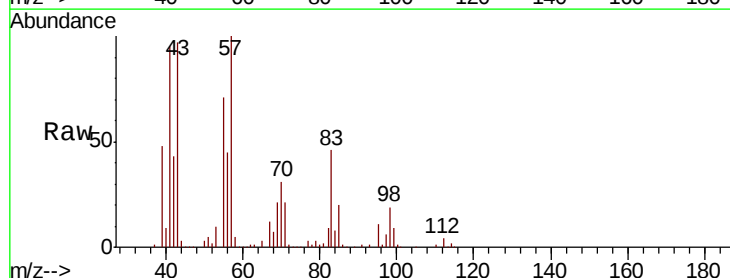
Tgt Ion: 93 Resp: 224082

Ion Ratio Lower Upper

93 100

95 1378.0 64.8 97.2#

174 0.0 79.3 118.9#



Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

500000

400000

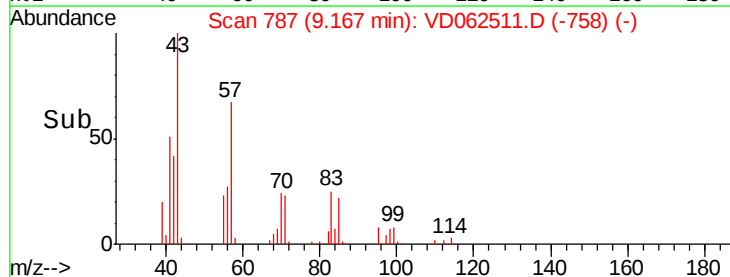
300000

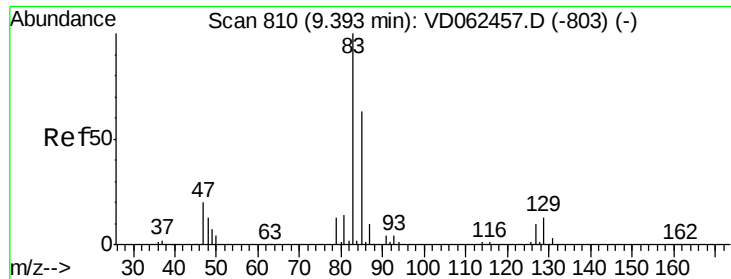
200000

100000

0

Time--> 9.00 9.20 9.40





#47

Bromodichloromethane

Concen: 2309.768 ug/l

RT: 9.58 min Scan# 829

Delta R.T. 0.19 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

Instrument :

MSVOA_D

ClientSampled :

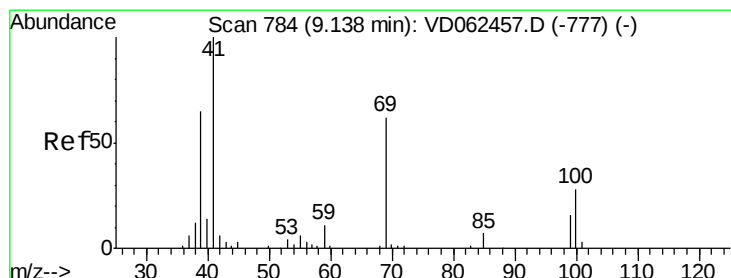
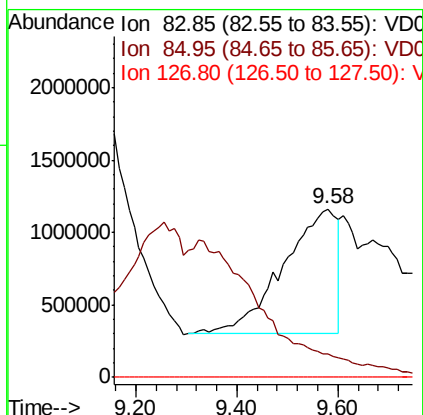
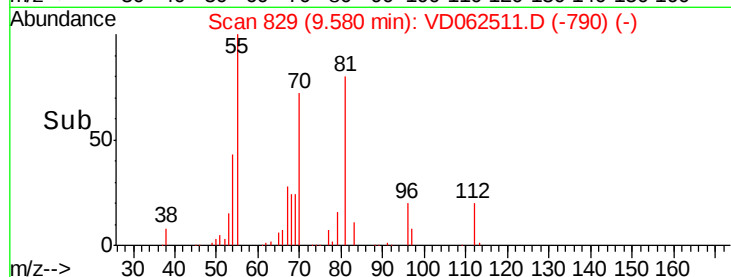
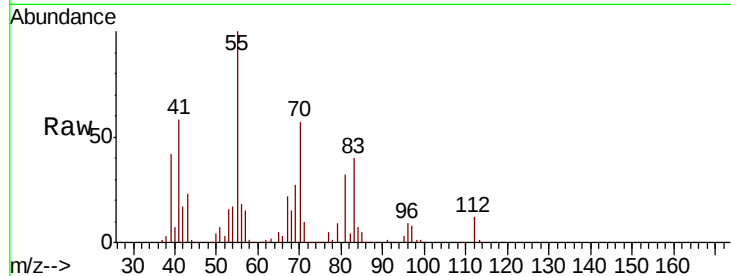
Tot Ion: 83 Resp: 6413221

Ion Ratio Lower Upper

83 100

85 13.6 50.9 76.3#

127 0.0 8.1 12.1#



#48

Methyl methacrylate

Concen: 4333.450 ug/l

RT: 9.16 min Scan# 786

Delta R.T. 0.02 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

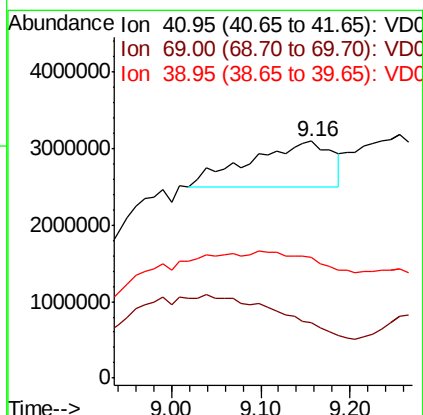
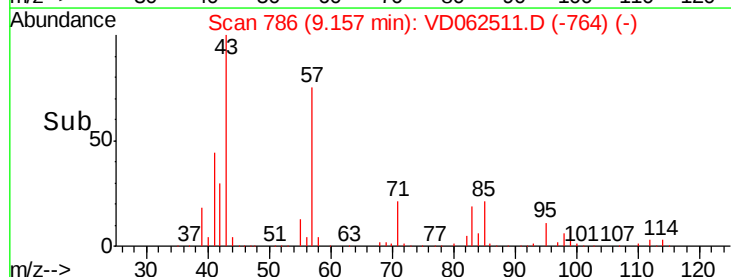
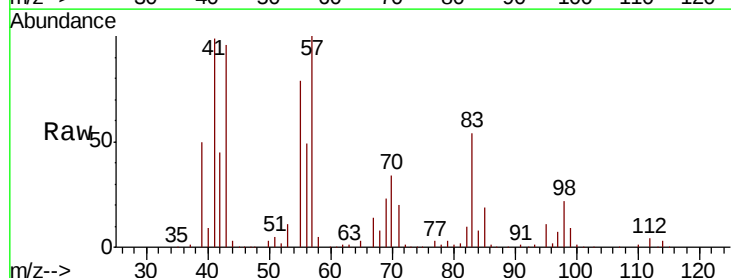
Tgt Ion: 41 Resp: 3785663

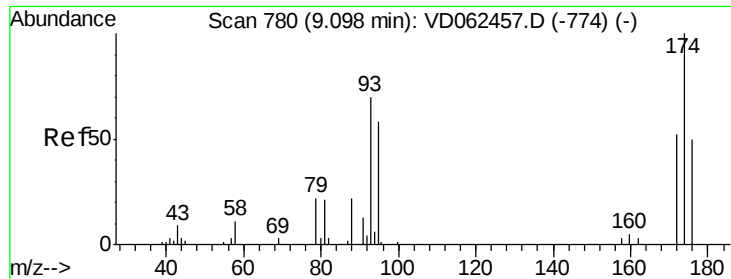
Ion Ratio Lower Upper

41 100

69 23.7 64.2 96.2#

39 51.0 46.8 70.2





#49

1,4-Dioxane

Concen: 28.204 ug/l

RT: 9.26 min Scan# 796

Delta R.T. 0.16 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

Instrument :
MSVOA_D
ClientSampleId :

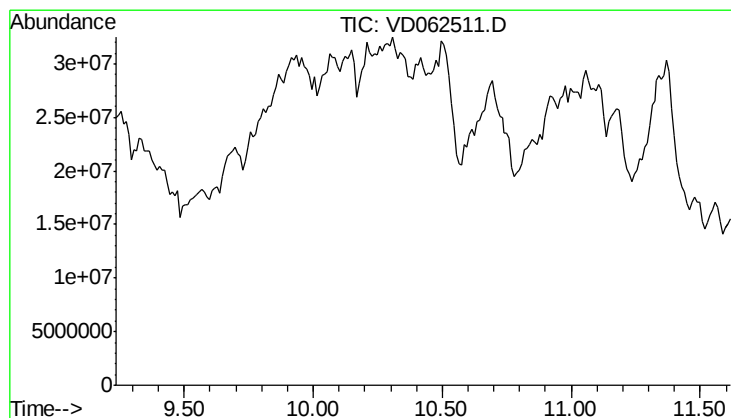
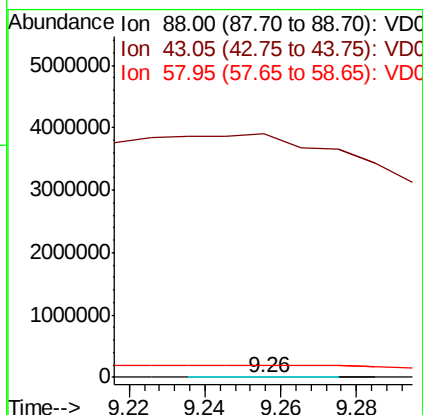
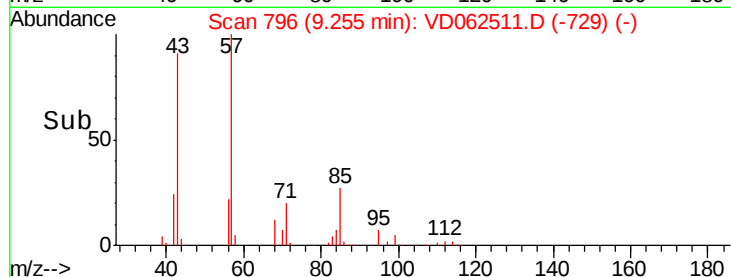
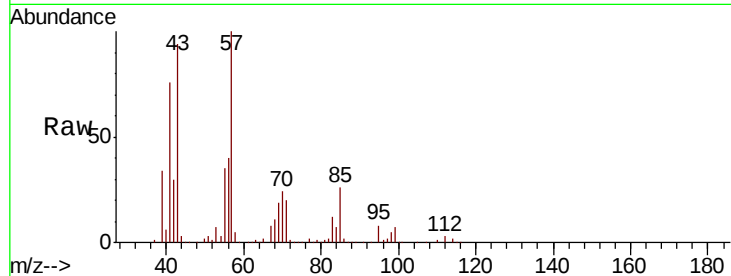
Tot Ion: 88 Resp: 221

Ion Ratio Lower Upper

88 100

43 1043165.8 23.4 35.0#

58 51080.2 44.0 66.0#



#50

Toluene-d8

Concen: 0.000 ug/l

Expected RT: 10.43 min

Lab File: VD062511.D

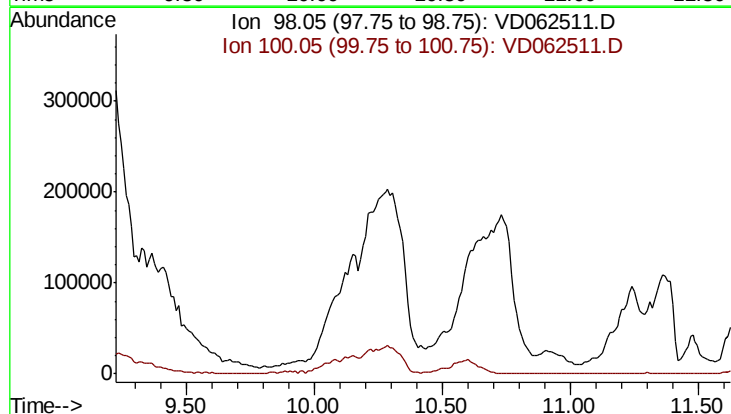
Acq: 22 May 2019 19:02

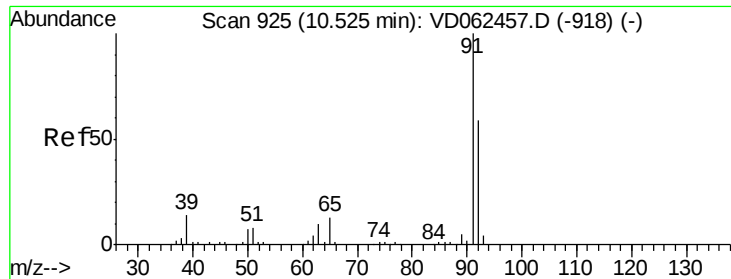
Tgt Ion: 98

Sig Exp Ratio

98 100

100 67.3





#52

Toluene

Concen: 340.057 ug/l

RT: 10.69 min Scan# 942

Delta R.T. 0.17 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

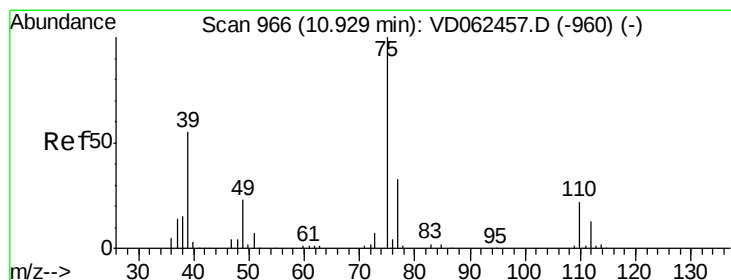
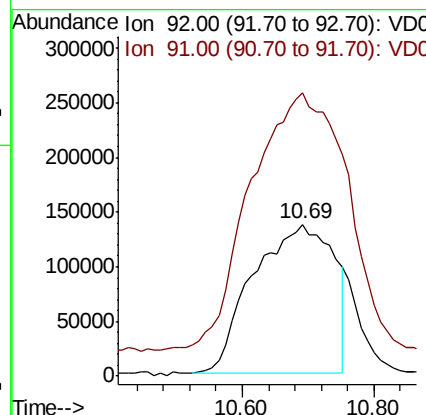
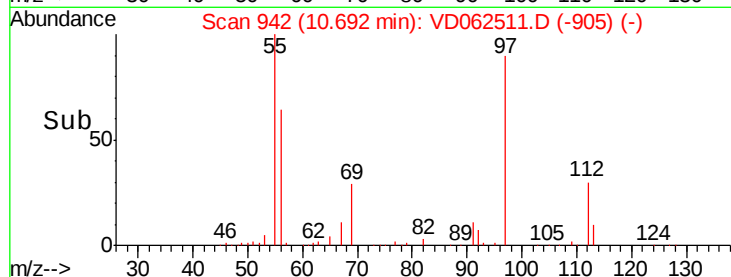
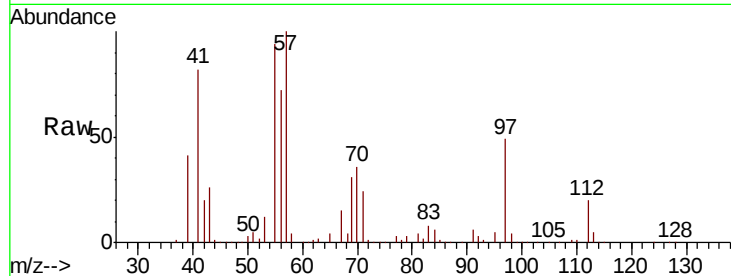
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 92 Resp: 1150223

Ion Ratio Lower Upper

92 100

91 186.7 136.6 204.8



#53

t-1,3-Dichloropropene

Concen: 2.100 ug/l

RT: 10.97 min Scan# 970

Delta R.T. 0.04 min

Lab File: VD062511.D

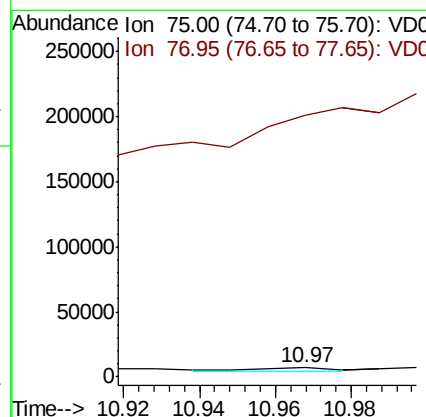
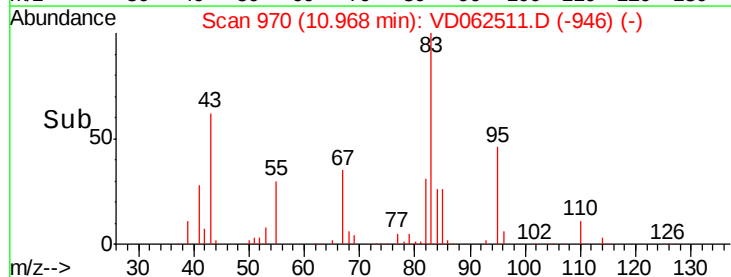
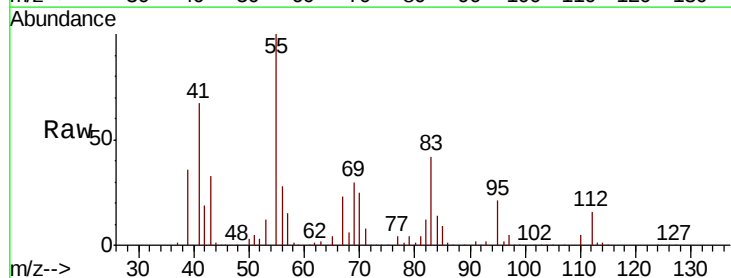
Acq: 22 May 2019 19:02

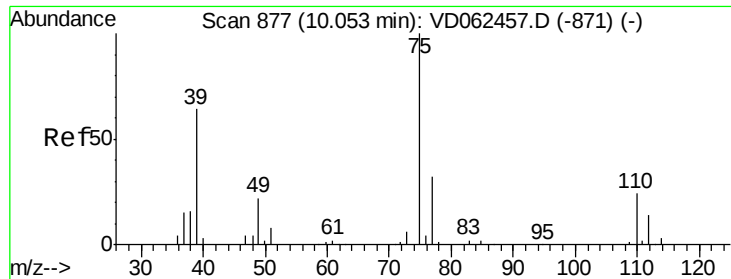
Tgt Ion: 75 Resp: 4854

Ion Ratio Lower Upper

75 100

77 2938.9 25.8 38.8#

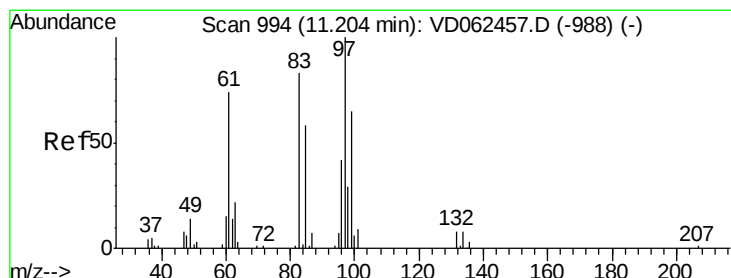
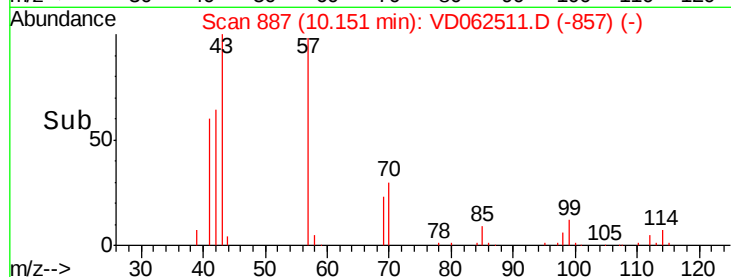
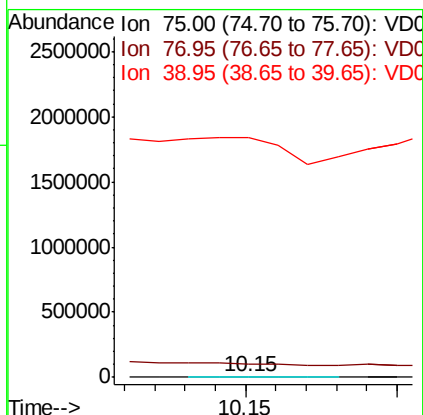
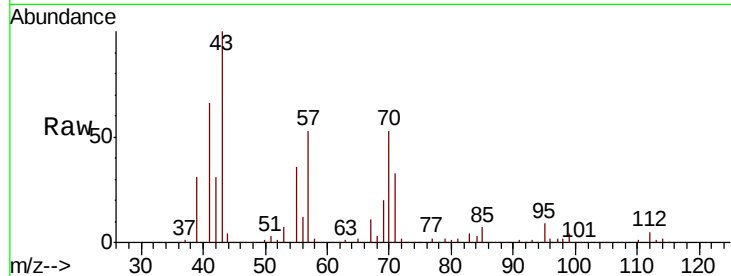




#54
 cis-1,3-Dichloropropene
 Concen: 1.192 ug/l
 RT: 10.15 min Scan# 887
 Delta R.T. 0.10 min
 Lab File: VD062511.D
 Acq: 22 May 2019 19:02

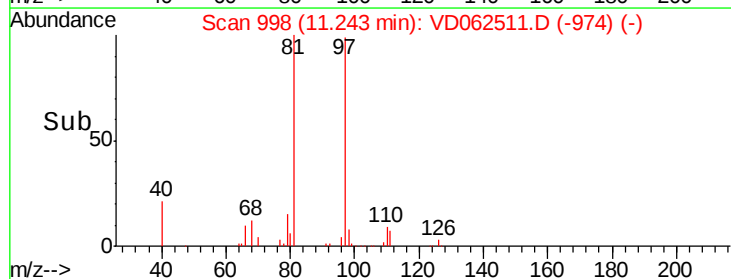
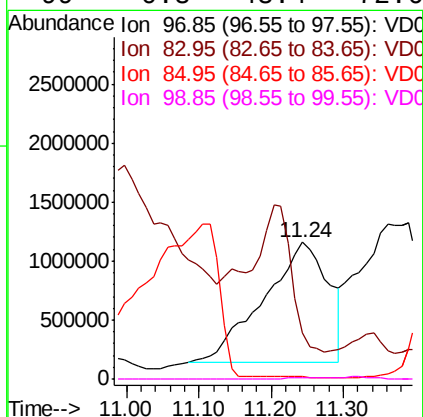
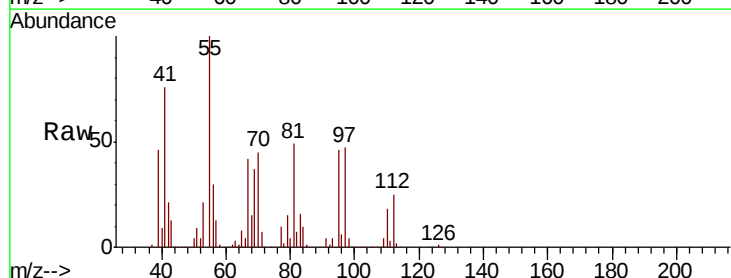
Instrument :
 MSVOA_D
 ClientSampleID :

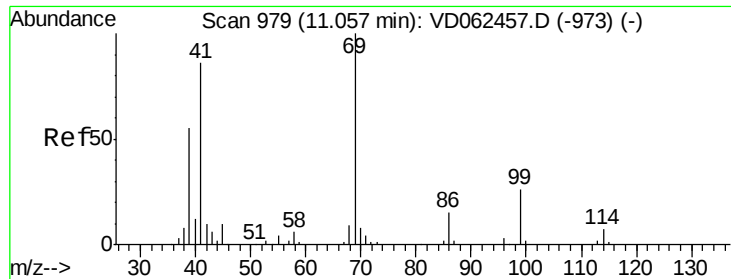
Tot Ion: 75 Resp: 2876
 Ion Ratio Lower Upper
 75 100
 77 2566.1 25.5 38.3#
 39 45298.1 39.4 59.2#



#55
 1,1,2-Trichloroethane
 Concen: 5507.969 ug/l
 RT: 11.24 min Scan# 998
 Delta R.T. 0.04 min
 Lab File: VD062511.D
 Acq: 22 May 2019 19:02

Tgt Ion: 97 Resp: 6314184
 Ion Ratio Lower Upper
 97 100
 83 34.0 65.7 98.5#
 85 1.5 45.6 68.4#
 99 0.8 48.4 72.6#

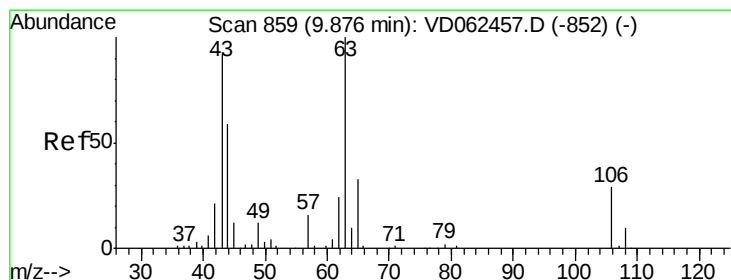
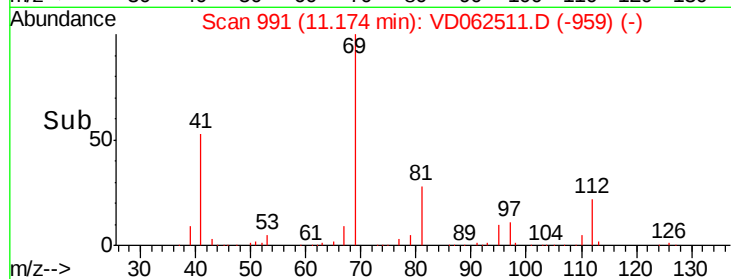
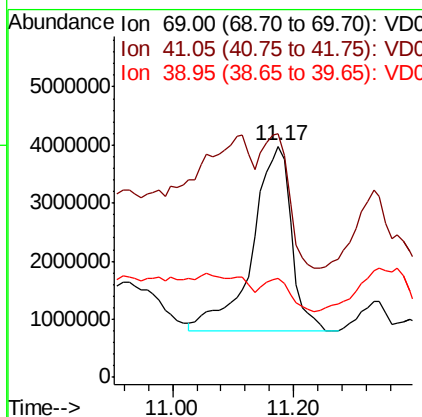
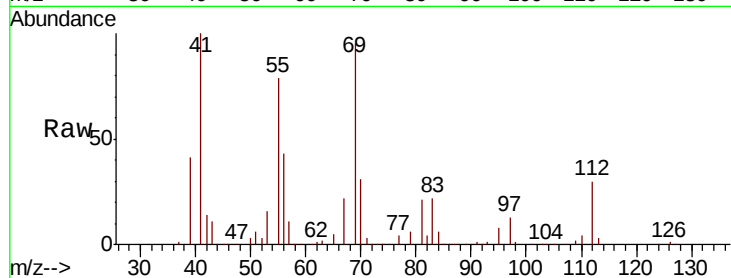




#56
 Ethyl methacrylate
 Concen: 11678.019 ug/l
 RT: 11.17 min Scan# 991
 Delta R.T. 0.12 min
 Lab File: VD062511.D
 Acq: 22 May 2019 19:02

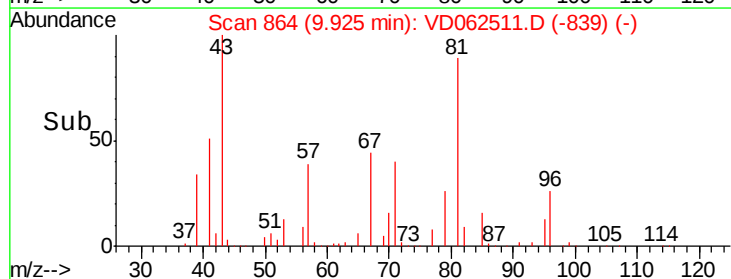
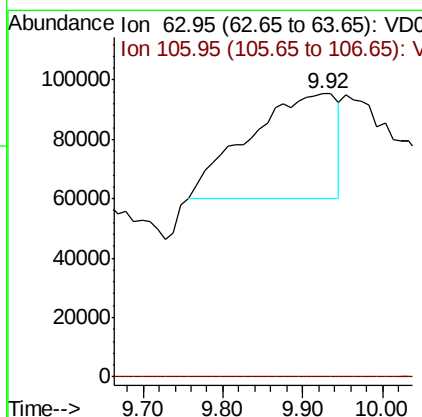
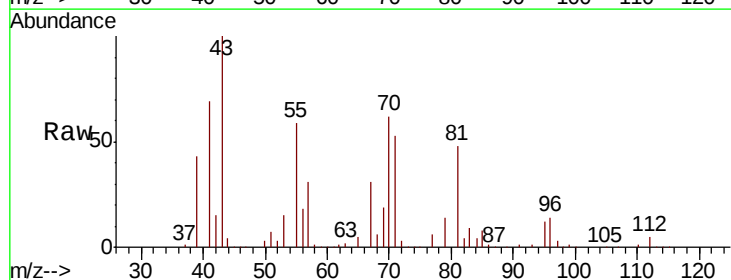
Instrument :
 MSVOA_D
 ClientSampled :

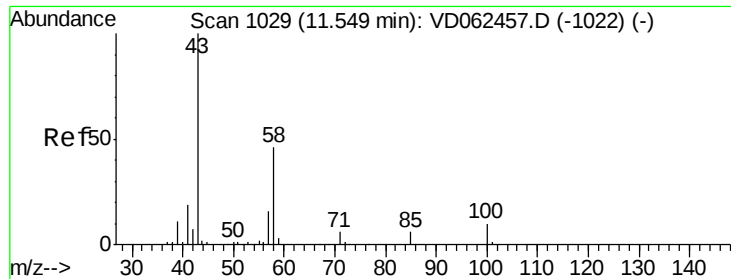
Tot Ion: 69 Resp:14311472
 Ion Ratio Lower Upper
 69 100
 41 105.4 56.3 84.5#
 39 42.7 29.4 44.2



#58
 2-Chloroethyl Vinyl ether
 Concen: 427.680 ug/l
 RT: 9.92 min Scan# 864
 Delta R.T. 0.05 min
 Lab File: VD062511.D
 Acq: 22 May 2019 19:02

Tgt Ion: 63 Resp: 269133
 Ion Ratio Lower Upper
 63 100
 106 0.0 22.6 34.0#

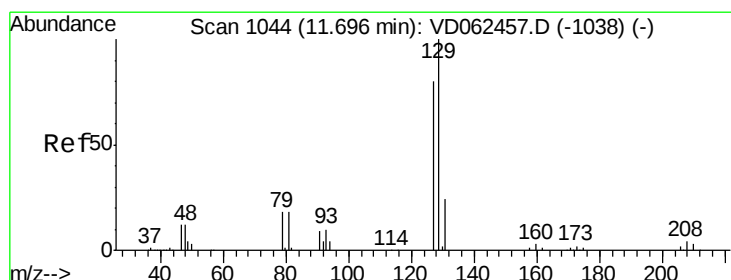
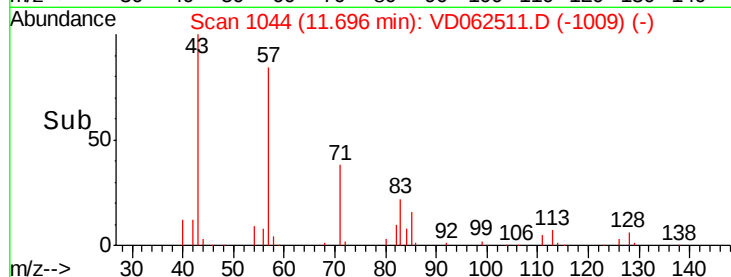
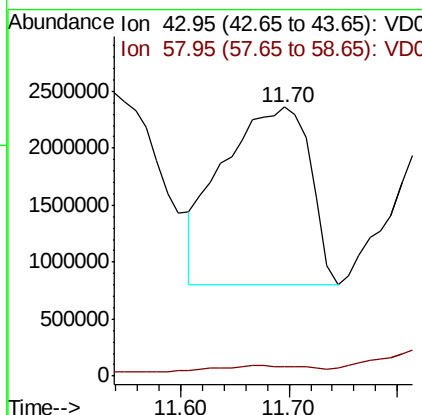
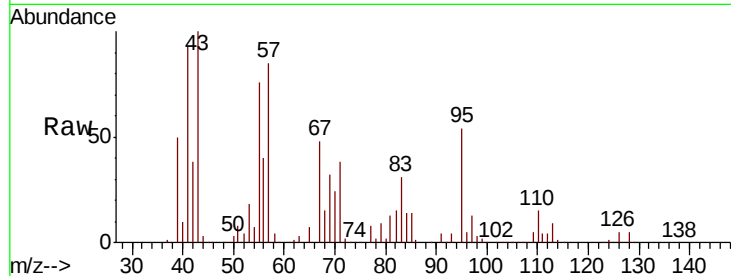




#59
2-Hexanone
Concen: 14104.144 ug/l
RT: 11.70 min Scan# 1044
Delta R.T. 0.15 min
Lab File: VD062511.D
Acq: 22 May 2019 19:02

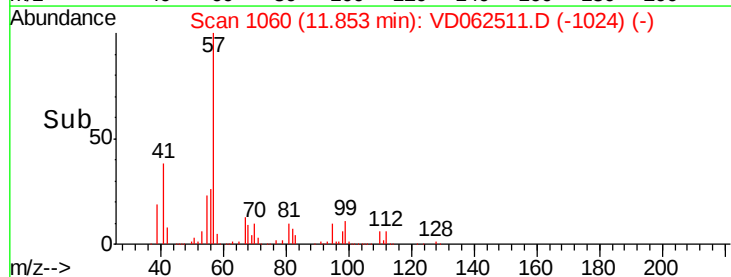
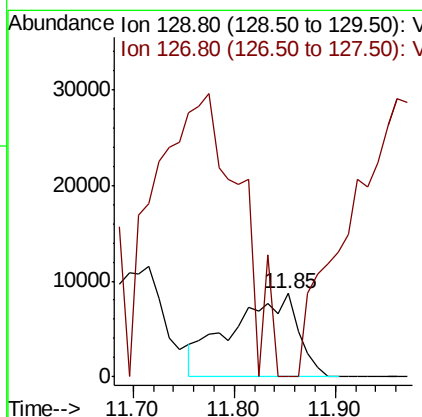
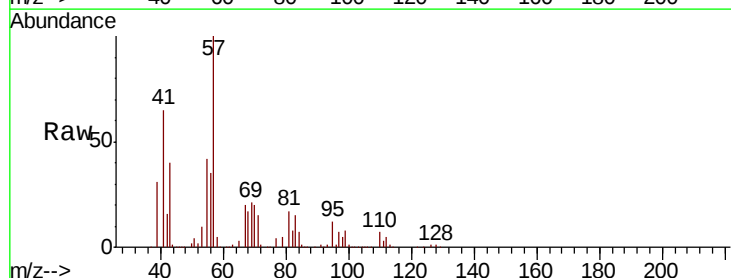
Instrument :
MSVOA_D
ClientSampleId :

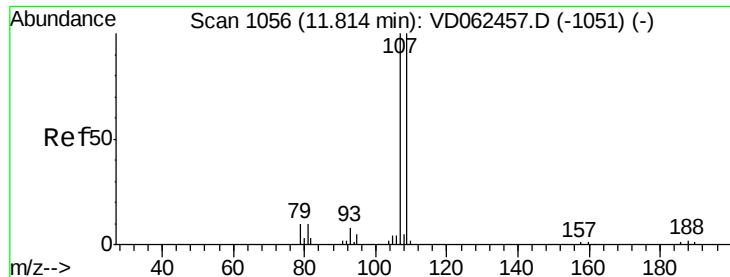
Tot Ion: 43 Resp: 8790792
Ion Ratio Lower Upper
43 100
58 3.7 25.4 76.4#



#60
Dibromochloromethane
Concen: 18.054 ug/l
RT: 11.85 min Scan# 1060
Delta R.T. 0.16 min
Lab File: VD062511.D
Acq: 22 May 2019 19:02

Tgt Ion: 129 Resp: 39753
Ion Ratio Lower Upper
129 100
127 0.0 38.0 113.9#

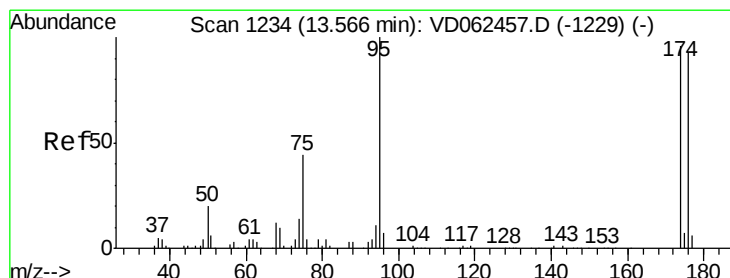
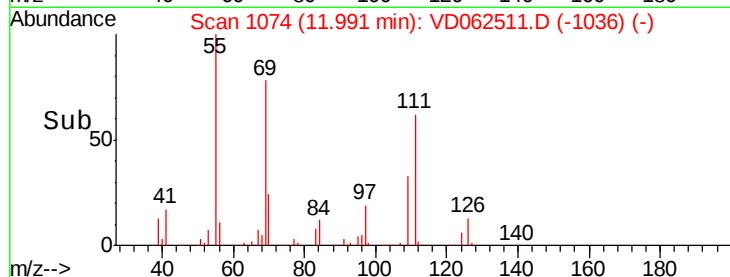
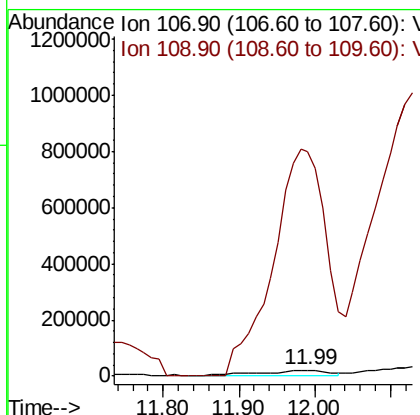
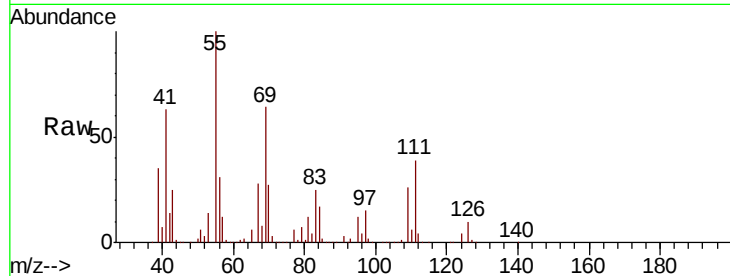




#61
 1,2-Dibromoethane
 Concen: 74.398 ug/l
 RT: 11.99 min Scan# 1074
 Delta R.T. 0.18 min
 Lab File: VD062511.D
 Acq: 22 May 2019 19:02

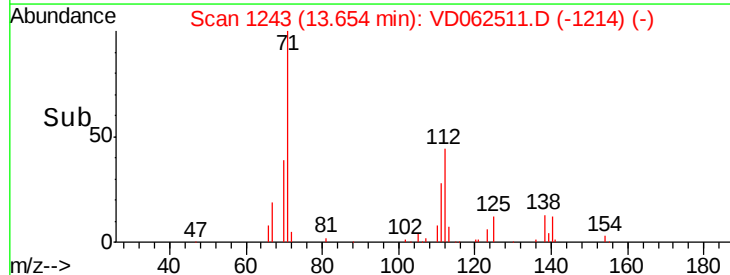
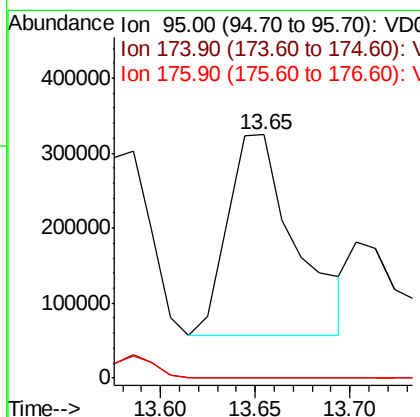
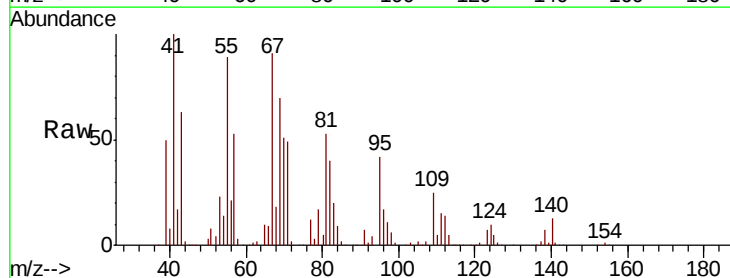
Instrument :
 MSVOA_D
 ClientSampled :

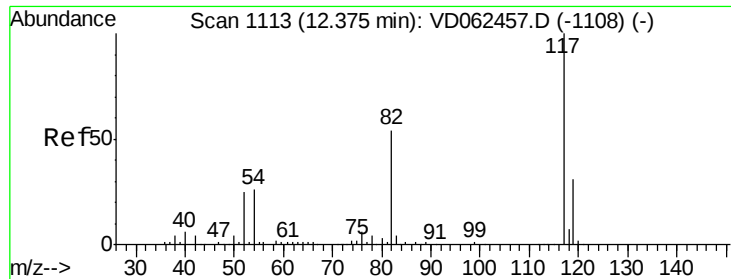
Tot Ion:107 Resp: 105106
 Ion Ratio Lower Upper
 107 100
 109 3650.3 78.3 117.5#



#62
 4-Bromofluorobenzene
 Concen: 292.905 ug/l
 RT: 13.65 min Scan# 1243
 Delta R.T. 0.09 min
 Lab File: VD062511.D
 Acq: 22 May 2019 19:02

Tgt Ion: 95 Resp: 666429
 Ion Ratio Lower Upper
 95 100
 174 0.0 0.0 181.8
 176 0.0 0.0 174.4

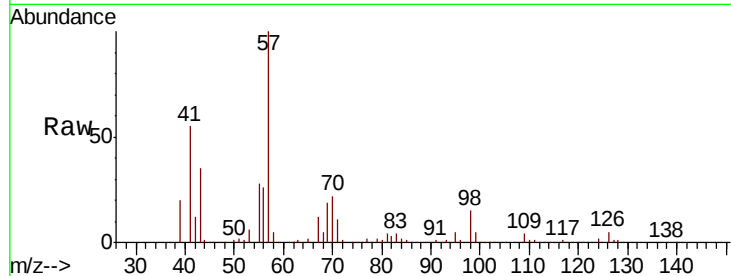




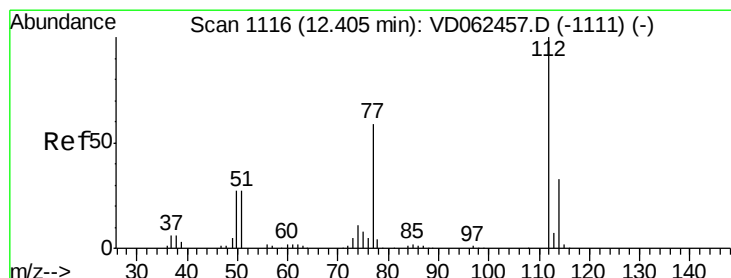
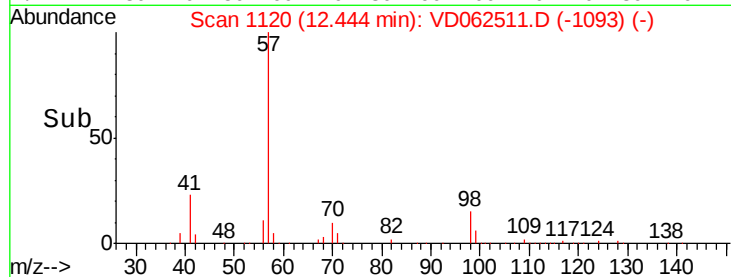
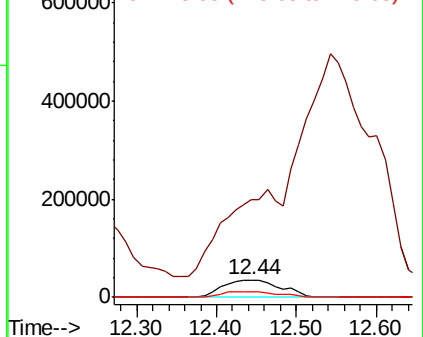
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.44 min Scan# 1120
Delta R.T. 0.07 min
Lab File: VD062511.D
Acq: 22 May 2019 19:02

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 180242
Ion Ratio Lower Upper
117 100
82 563.4 36.2 54.2#
119 33.8 26.2 39.4

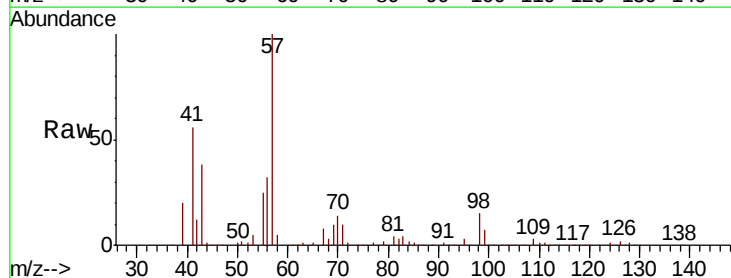


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

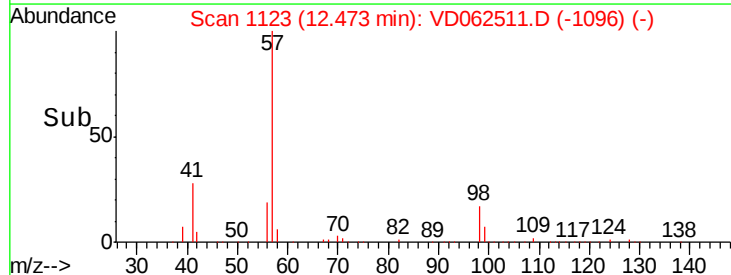
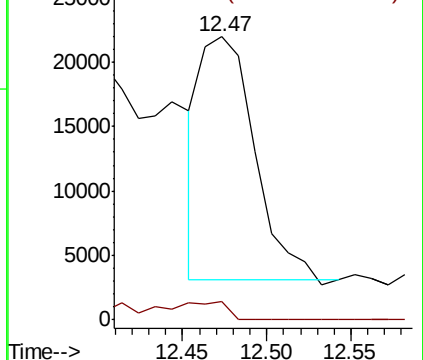


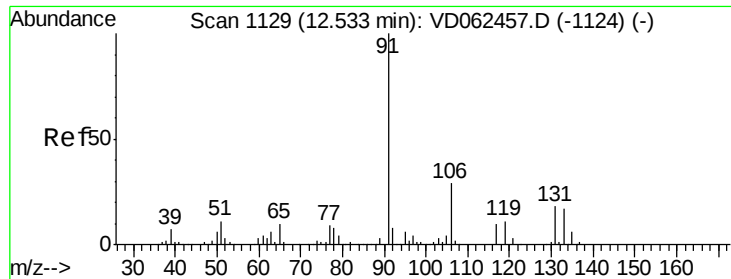
#65
Chlorobenzene
Concen: 12.114 ug/l
RT: 12.47 min Scan# 1123
Delta R.T. 0.07 min
Lab File: VD062511.D
Acq: 22 May 2019 19:02

Tgt Ion:112 Resp: 41988
Ion Ratio Lower Upper
112 100
114 6.7 25.8 38.8#



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 114.00 (113.70 to 114.70): V





#67

Ethyl Benzene

Concen: 6067.235 ug/l

RT: 12.65 min Scan# 1141

Delta R.T. 0.12 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

Instrument :

MSVOA_D

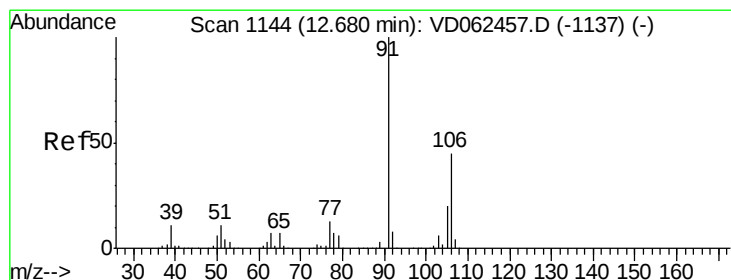
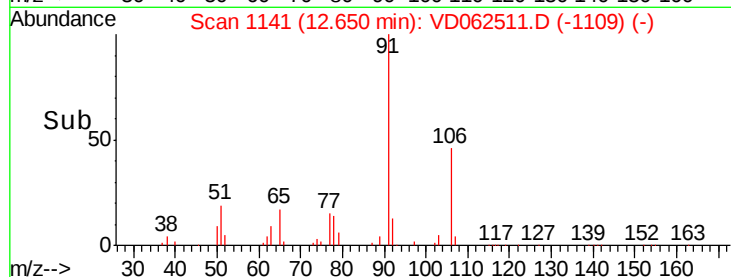
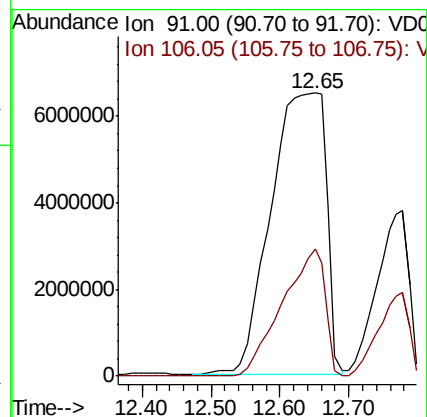
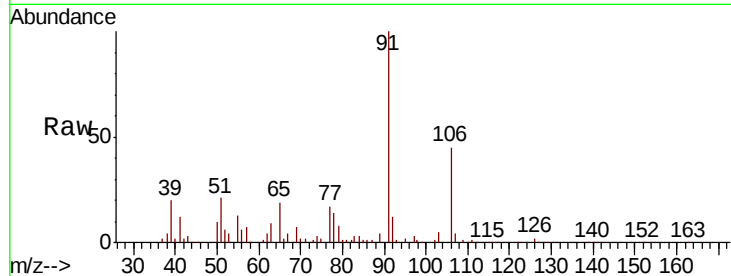
ClientSampled :

Tot Ion: 91 Resp:36222544

Ion Ratio Lower Upper

91 100

106 45.1 24.7 37.1#



#68

m/p-Xylenes

Concen: 5939.131 ug/l

RT: 12.65 min Scan# 1141

Delta R.T. -0.03 min

Lab File: VD062511.D

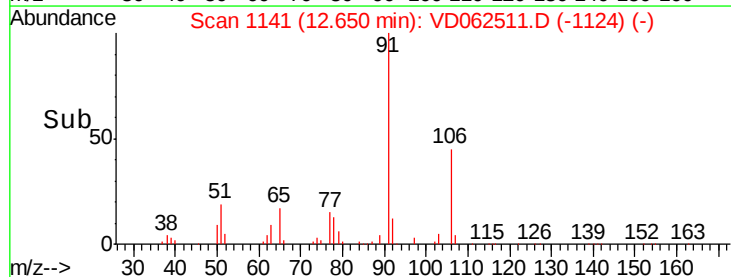
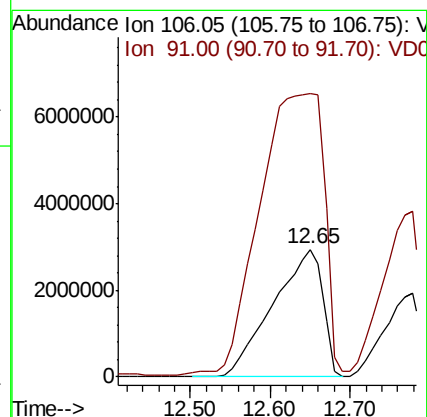
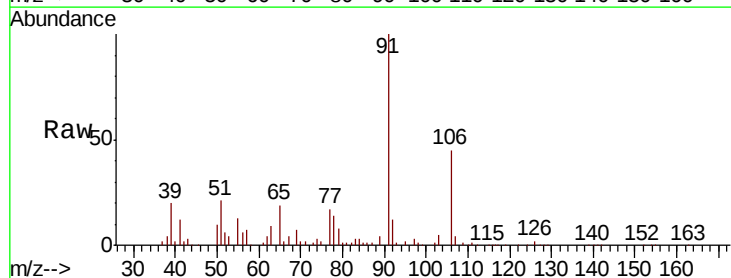
Acq: 22 May 2019 19:02

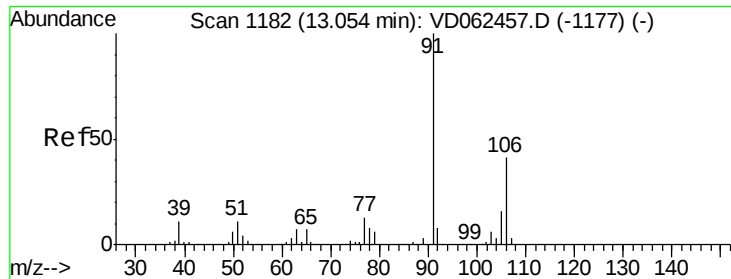
Tgt Ion:106 Resp:12727937

Ion Ratio Lower Upper

106 100

91 221.9 164.0 246.0

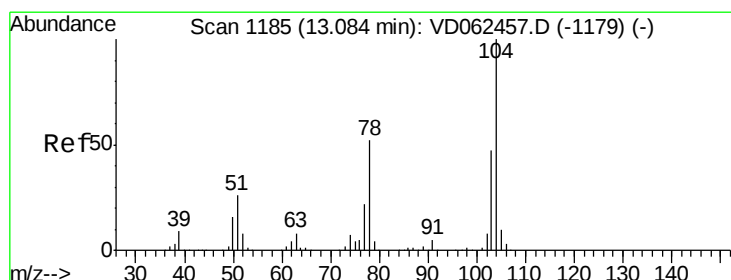
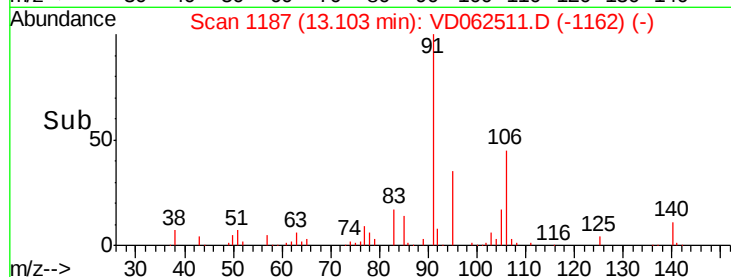
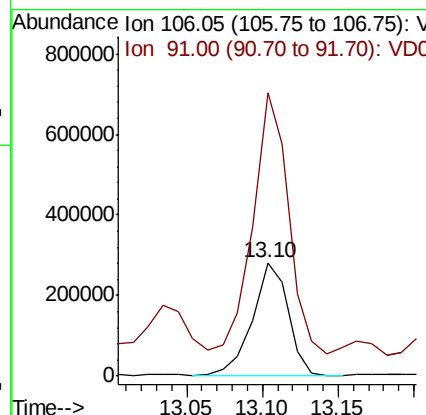
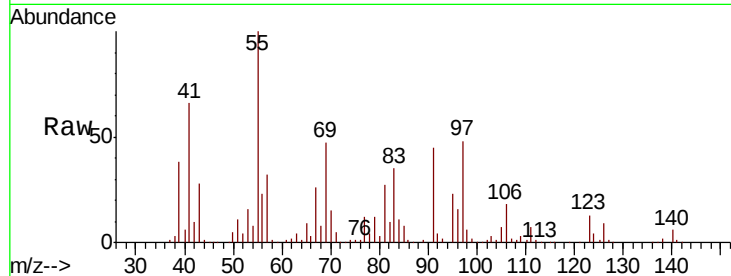




#69
o-Xylene
Concen: 231.094 ug/l
RT: 13.10 min Scan# 1187
Delta R.T. 0.05 min
Lab File: VD062511.D
Acq: 22 May 2019 19:02

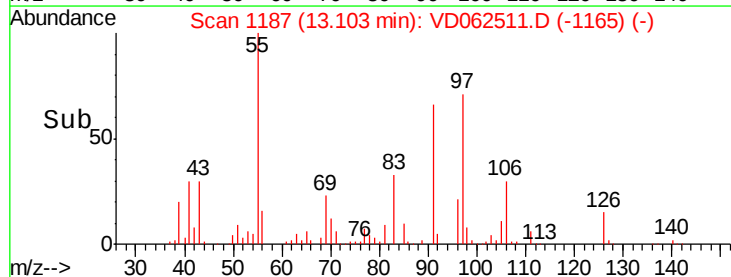
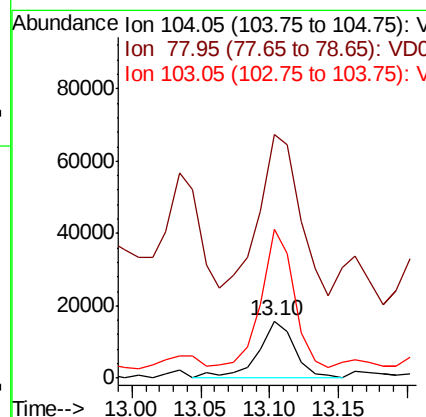
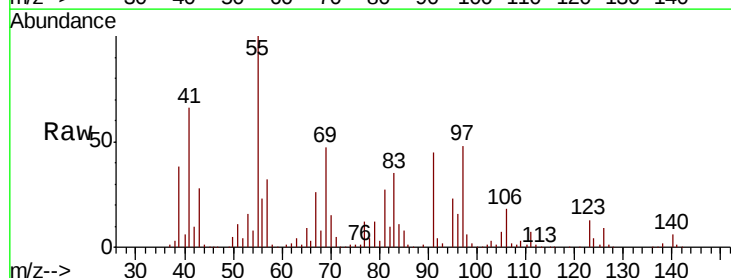
Instrument :
MSVOA_D
ClientSampled :

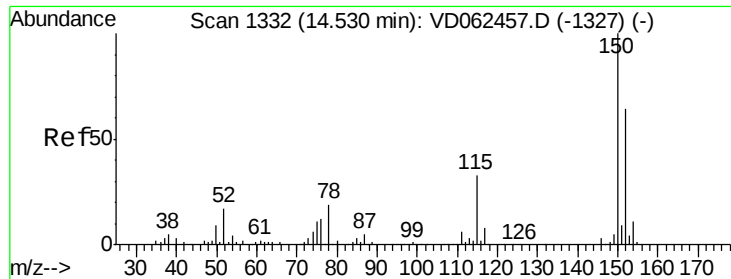
Tot Ion:106 Resp: 467281
Ion Ratio Lower Upper
106 100
91 249.3 106.7 319.9



#70
Styrene
Concen: 8.655 ug/l
RT: 13.10 min Scan# 1187
Delta R.T. 0.02 min
Lab File: VD062511.D
Acq: 22 May 2019 19:02

Tgt Ion:104 Resp: 29773
Ion Ratio Lower Upper
104 100
78 429.1 35.4 53.2#
103 262.8 37.5 56.3#



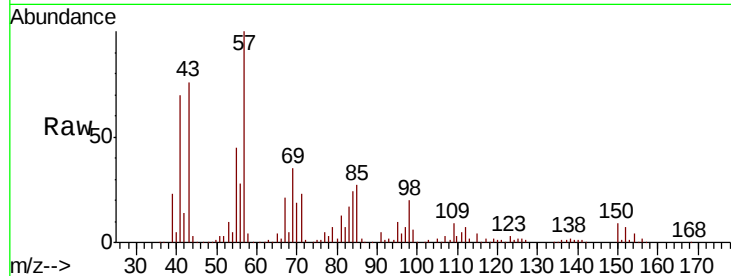


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1331
Delta R.T. -0.01 min
Lab File: VD062511.D
Acq: 22 May 2019 19:02

Instrument :
MSVOA_D
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	63.2	30.9	92.7
150	134.8	0.0	314.8

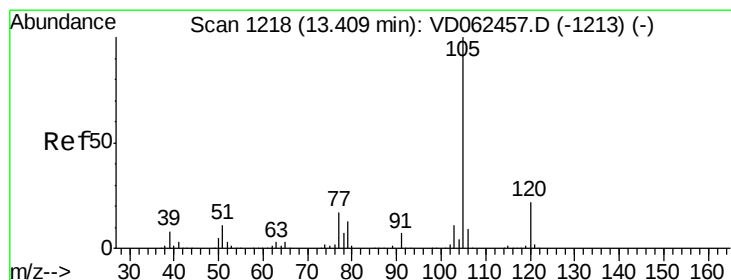
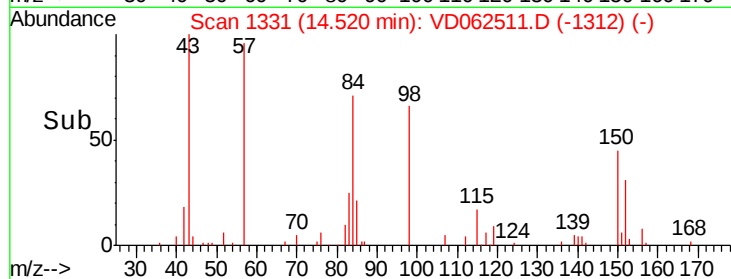
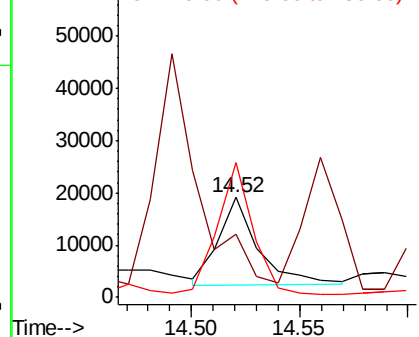


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

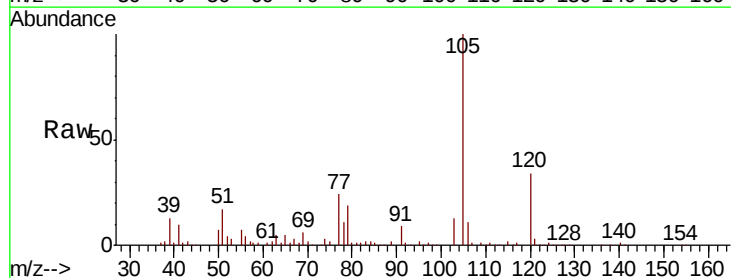
Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene
Concen: 14851.578 ug/l
RT: 13.46 min Scan# 1223
Delta R.T. 0.05 min
Lab File: VD062511.D
Acq: 22 May 2019 19:02

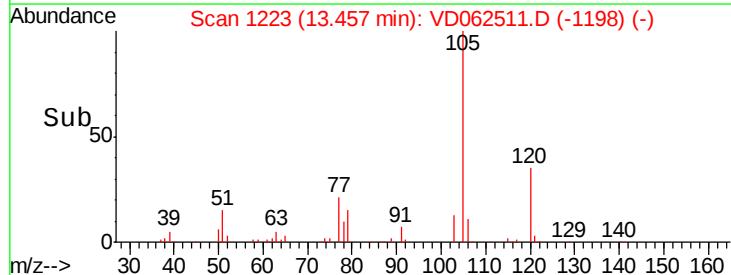
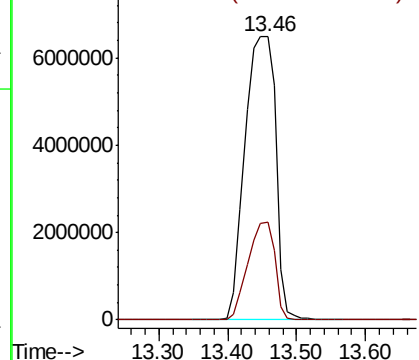
Tgt Ion	Ratio	Lower	Upper
105	100		
120	34.4	12.0	36.1

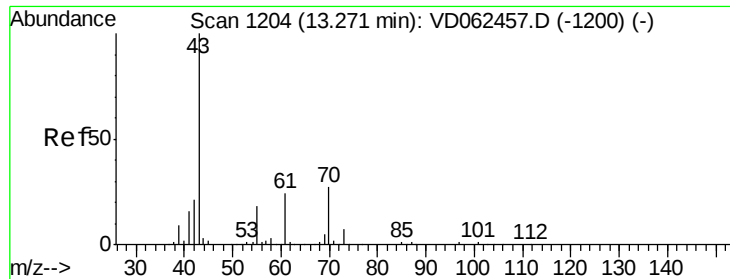


Abundance

Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#74

N-amvl acetate

Concen: 5023.369 ug/l

RT: 13.27 min Scan# 1204

Delta R.T. -0.00 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

Instrument :

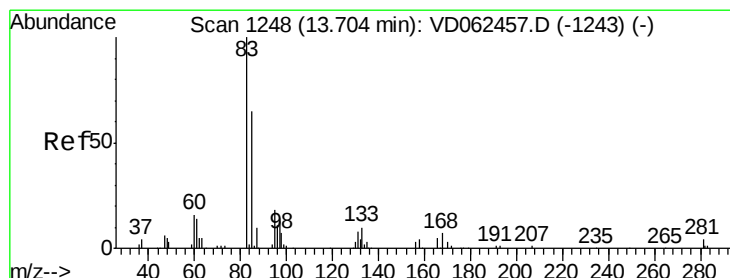
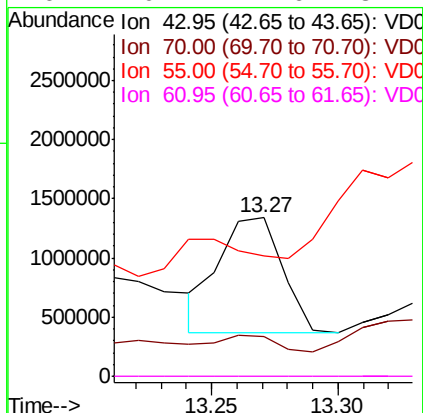
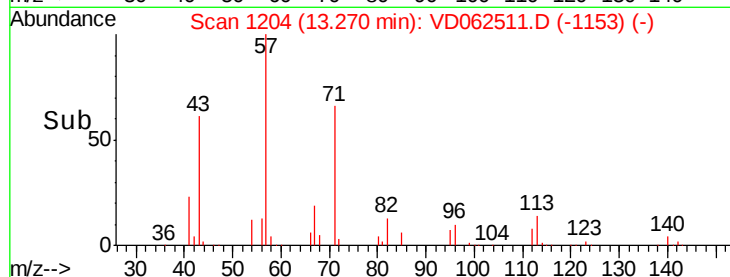
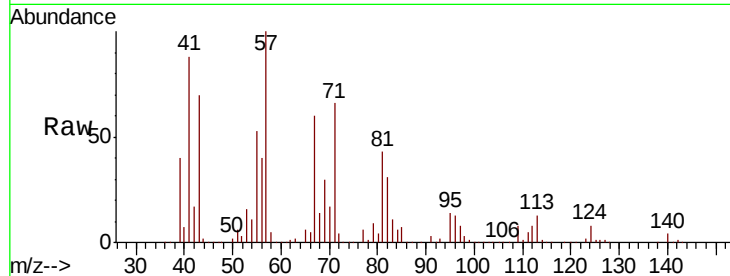
MSVOA_D

ClientSampleId :

Tot Ion: 43 Resp: 1683914

Ion Ratio Lower Upper

43	100		
70	24.7	24.2	36.4
55	75.5	16.0	24.0#
61	0.2	21.6	32.4#



#75

1,1,2,2-Tetrachloroethane

Concen: 719.620 ug/l

RT: 13.69 min Scan# 1247

Delta R.T. -0.01 min

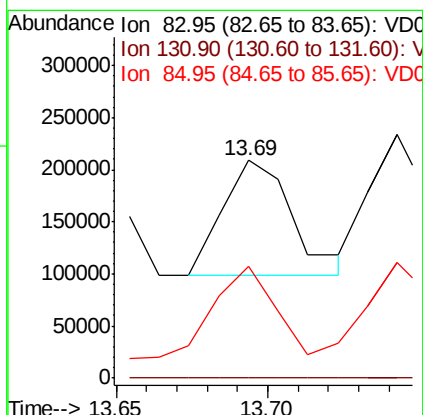
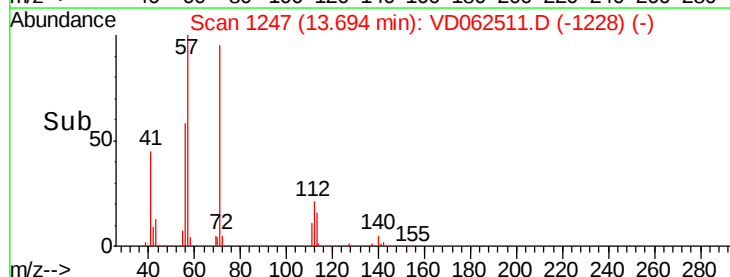
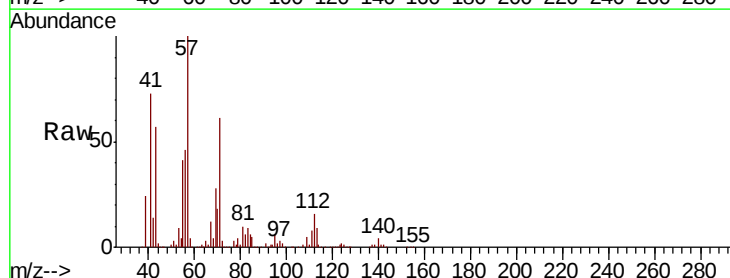
Lab File: VD062511.D

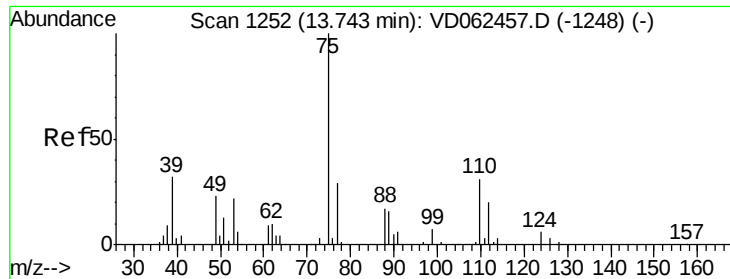
Acq: 22 May 2019 19:02

Tgt Ion: 83 Resp: 176204

Ion Ratio Lower Upper

83	100		
131	0.0	5.0	14.9#
85	51.4	32.6	97.7





#76

1,2,3-Trichloropropane

Concen: 589.322 ug/l

RT: 13.80 min Scan# 1258

Delta R.T. 0.06 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

Instrument :

MSVOA_D

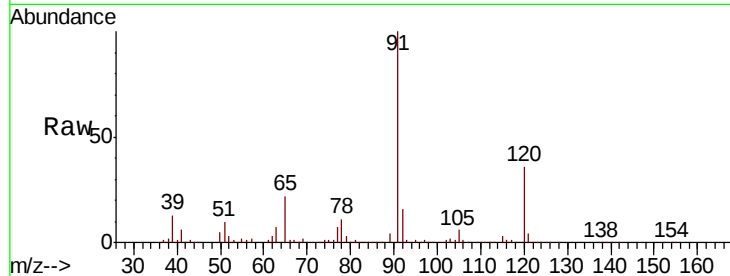
ClientSampleId :

Tot Ion: 75 Resp: 149465

Ion Ratio Lower Upper

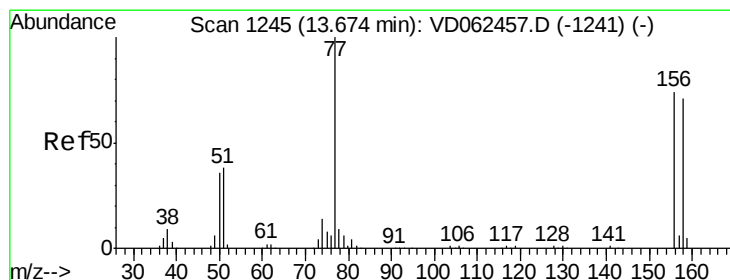
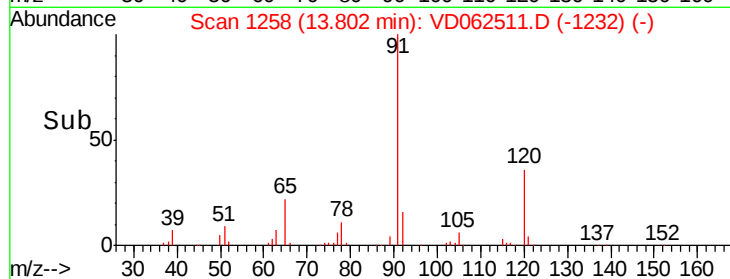
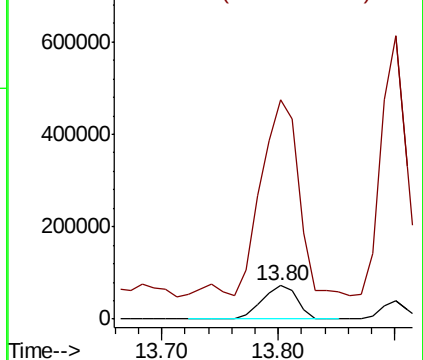
75 100

77 651.6 16.4 49.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#77

Bromobenzene

Concen: 4.275 ug/l

RT: 13.73 min Scan# 1251

Delta R.T. 0.06 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

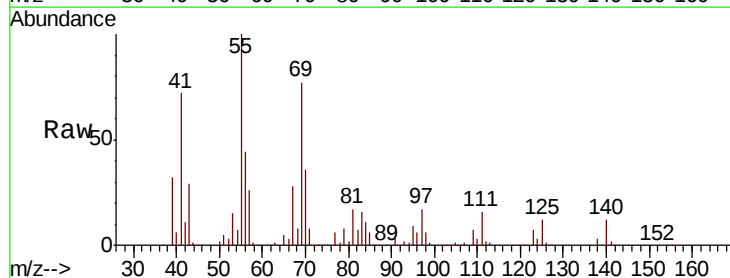
Tgt Ion: 156 Resp: 1646

Ion Ratio Lower Upper

156 100

77 6812.8 53.1 159.4#

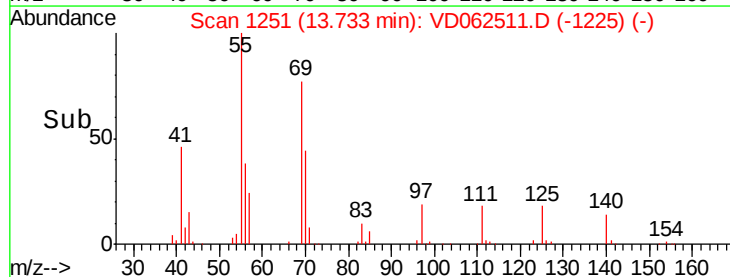
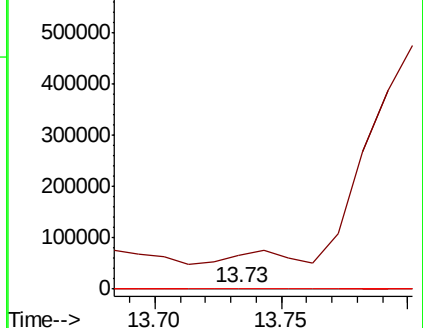
158 0.0 49.4 148.0#

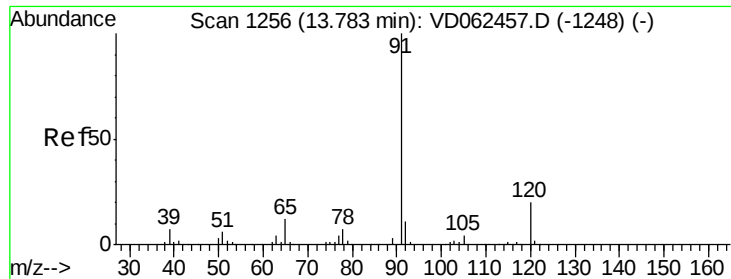


Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): VDC

Ion 157.85 (157.55 to 158.55): V





#78

n-propylbenzene

Concen: 11089.036 ug/l

RT: 13.80 min Scan# 1258

Delta R.T. 0.02 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

Instrument :

MSVOA_D

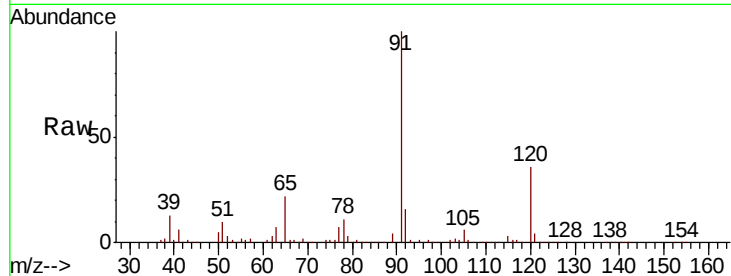
ClientSampleId :

Tot Ion: 91 Resp:17433522

Ion Ratio Lower Upper

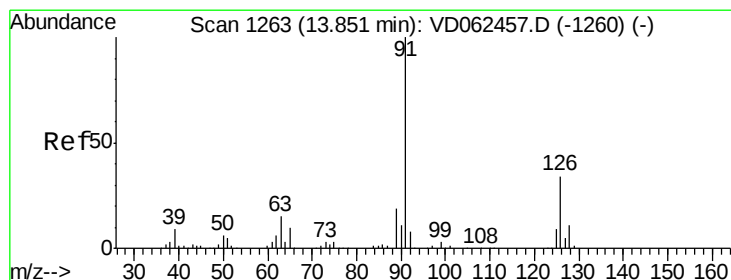
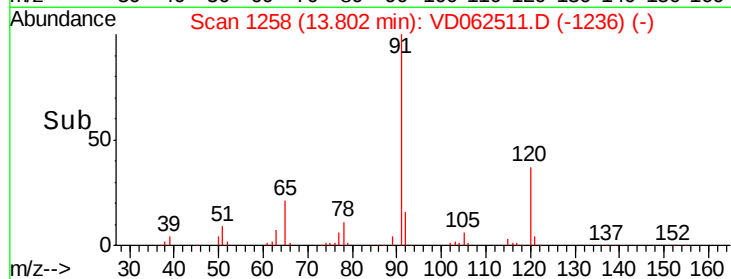
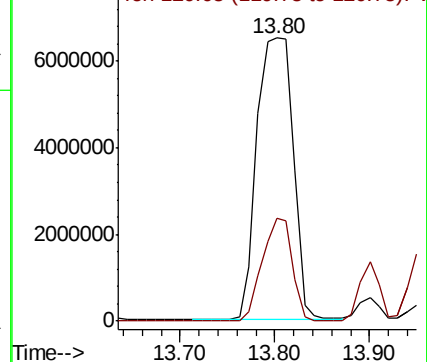
91 100

120 36.3 11.1 33.1#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): V



#79

2-Chlorotoluene

Concen: 854.888 ug/l

RT: 13.90 min Scan# 1268

Delta R.T. 0.05 min

Lab File: VD062511.D

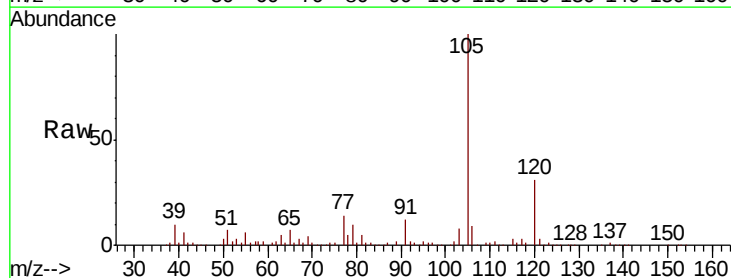
Acq: 22 May 2019 19:02

Tgt Ion: 91 Resp: 815624

Ion Ratio Lower Upper

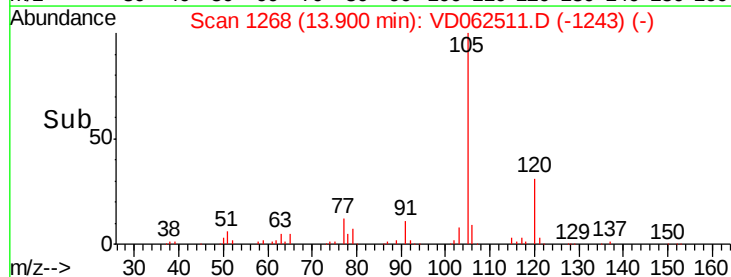
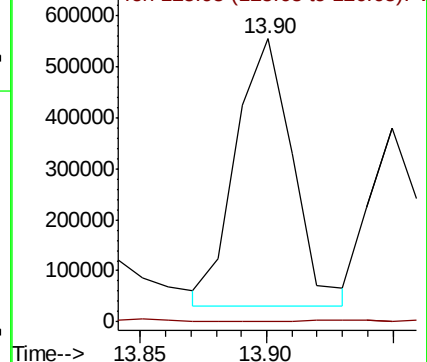
91 100

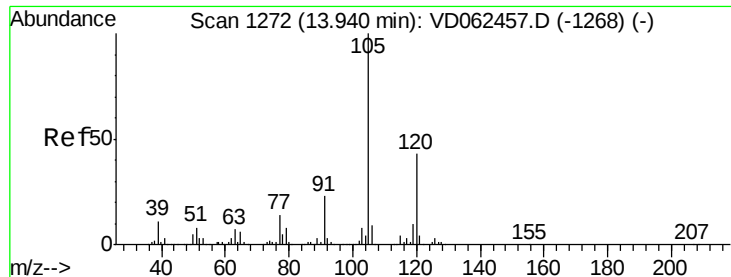
126 0.2 18.6 55.8#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V

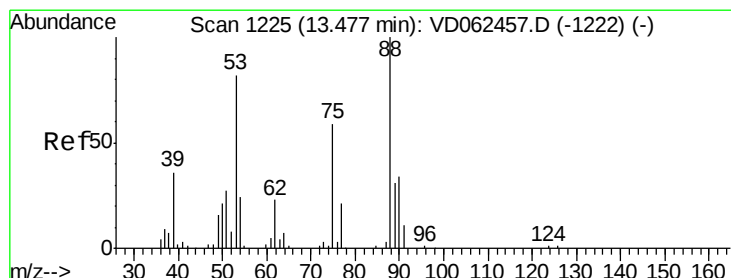
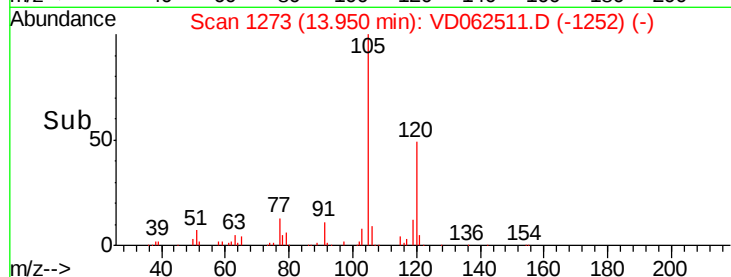
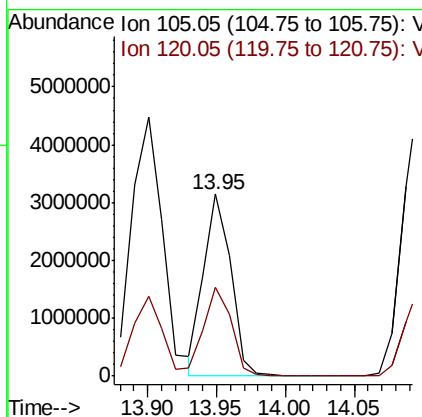
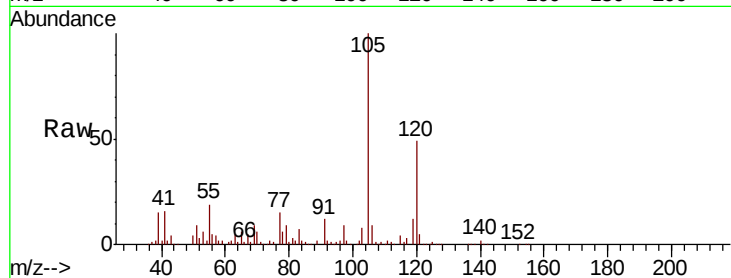




#80
 1,3,5-Trimethylbenzene
 Concen: 3632.760 ug/l
 RT: 13.95 min Scan# 1273
 Delta R.T. 0.01 min
 Lab File: VD062511.D
 Acq: 22 May 2019 19:02

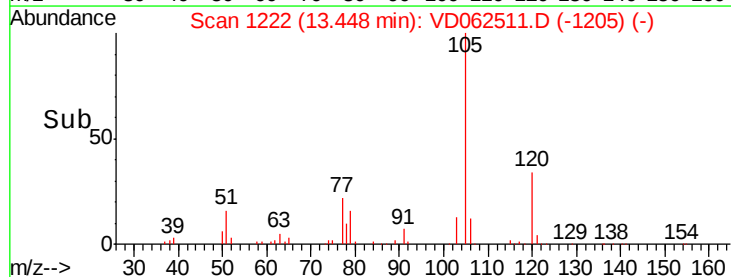
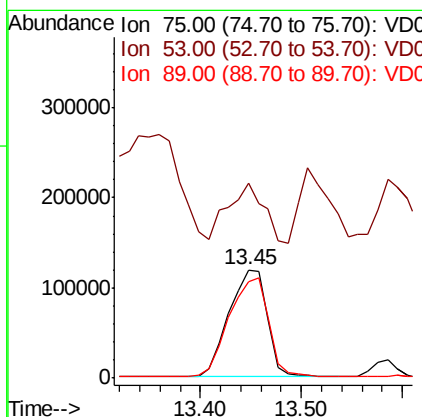
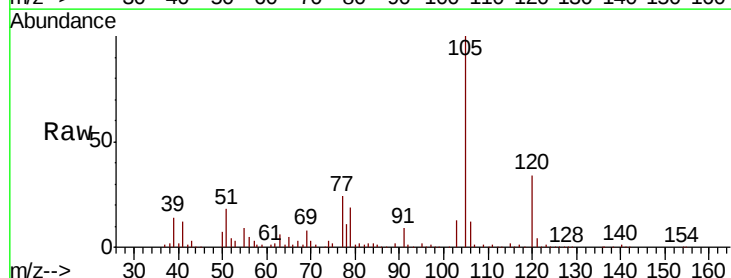
Instrument :
 MSVOA_D
 ClientSampled :

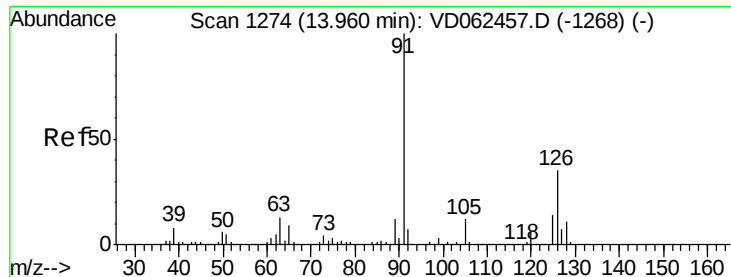
Tot Ion:105 Resp: 4269106
 Ion Ratio Lower Upper
 105 100
 120 49.1 24.0 72.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 4389.023 ug/l
 RT: 13.45 min Scan# 1222
 Delta R.T. -0.03 min
 Lab File: VD062511.D
 Acq: 22 May 2019 19:02

Tgt Ion: 75 Resp: 313939
 Ion Ratio Lower Upper
 75 100
 53 181.0 65.8 98.8#
 89 89.9 35.0 52.6#

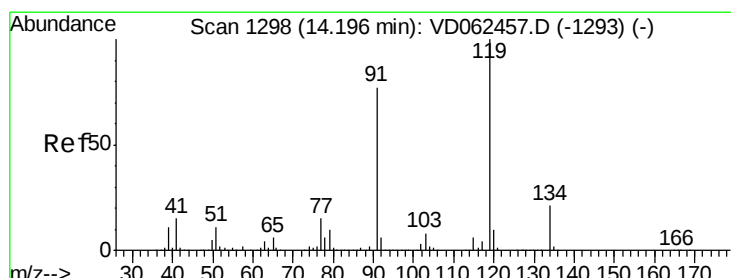
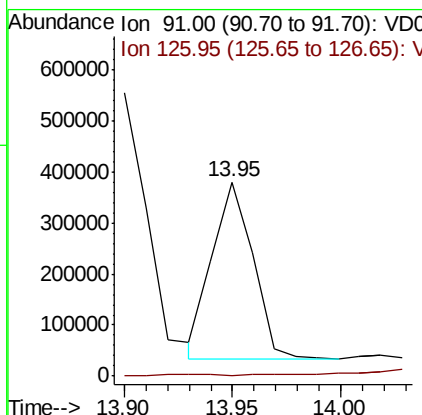
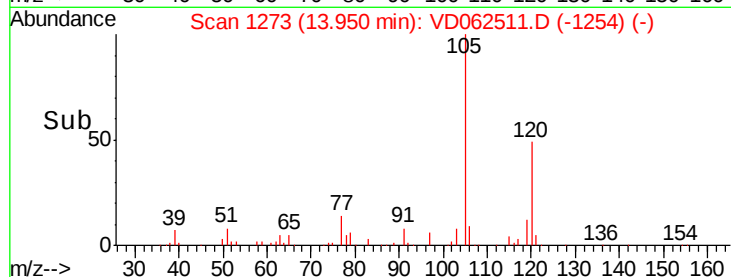
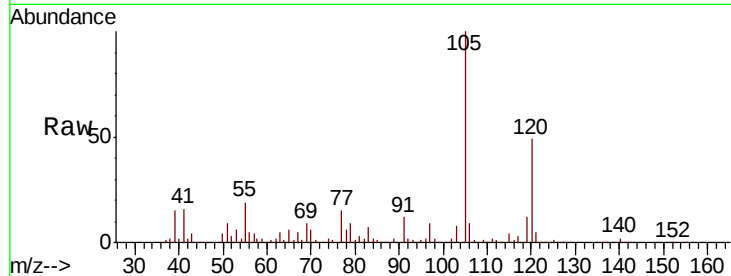




#82
4-Chlorotoluene
Concen: 414.954 ug/l
RT: 13.95 min Scan# 1273
Delta R.T. -0.01 min
Lab File: VD062511.D
Acq: 22 May 2019 19:02

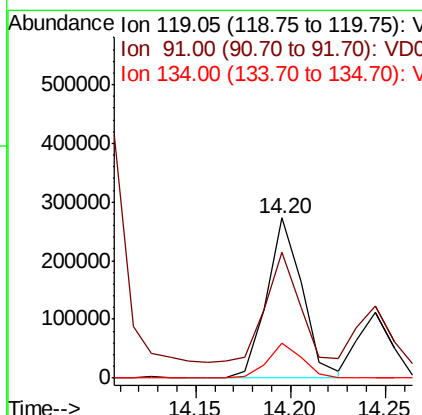
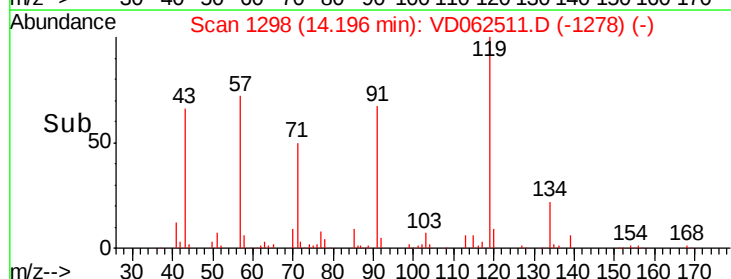
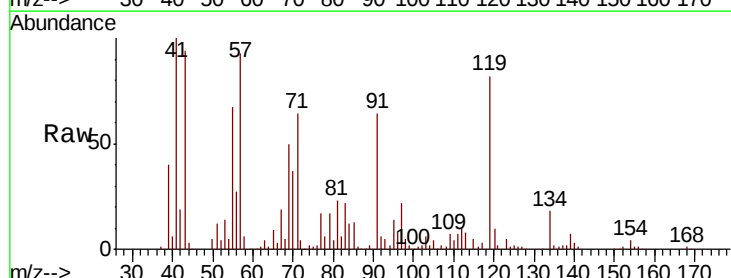
Instrument :
MSVOA_D
ClientSampleId :

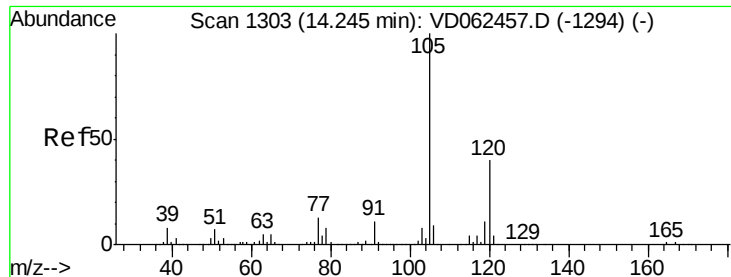
Tot Ion: 91 Resp: 455934
Ion Ratio Lower Upper
91 100
126 0.5 19.1 57.5#



#83
tert-Butylbenzene
Concen: 273.065 ug/l
RT: 14.20 min Scan# 1298
Delta R.T. -0.00 min
Lab File: VD062511.D
Acq: 22 May 2019 19:02

Tgt Ion: 119 Resp: 355951
Ion Ratio Lower Upper
119 100
91 78.7 34.2 102.6
134 21.8 12.0 36.0

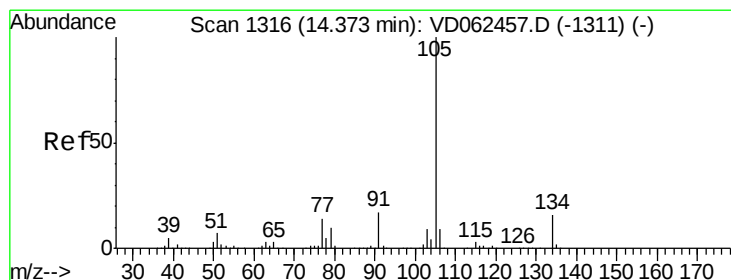
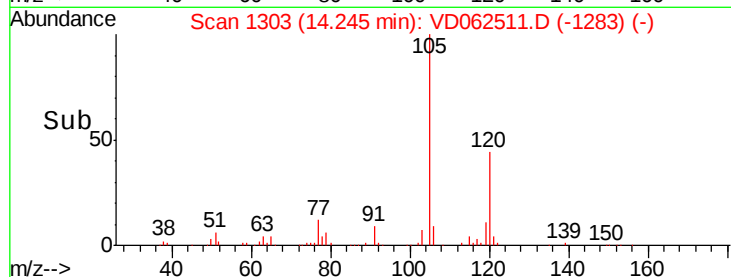
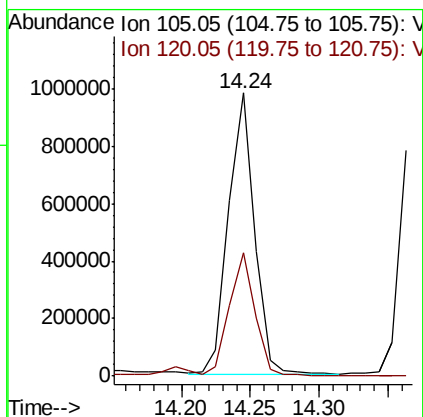
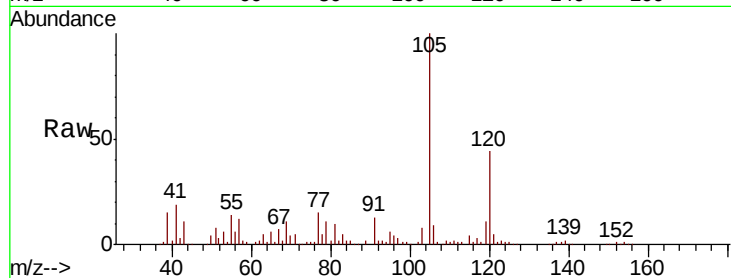




#84
 1,2,4-Trimethylbenzene
 Concen: 1059.418 ug/l
 RT: 14.24 min Scan# 1303
 Delta R.T. -0.00 min
 Lab File: VD062511.D
 Acq: 22 May 2019 19:02

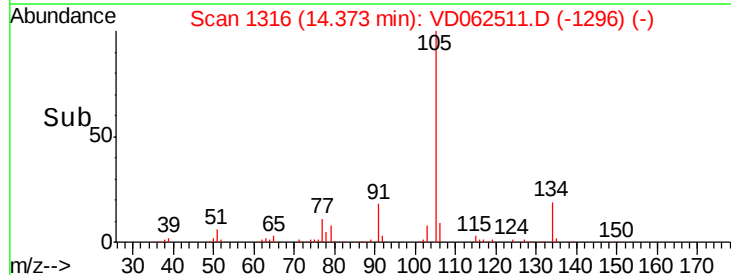
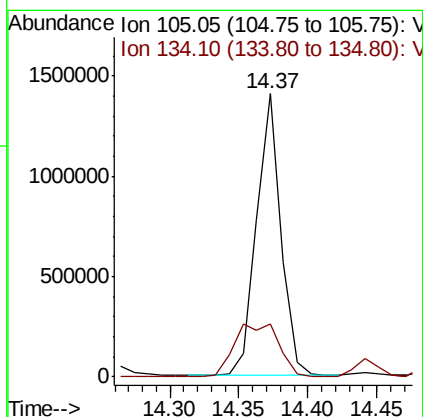
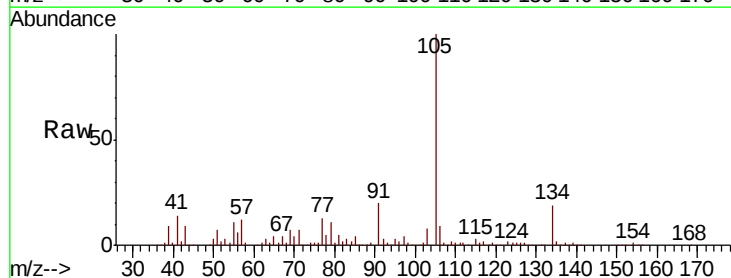
Instrument :
 MSVOA_D
 ClientSampleId :

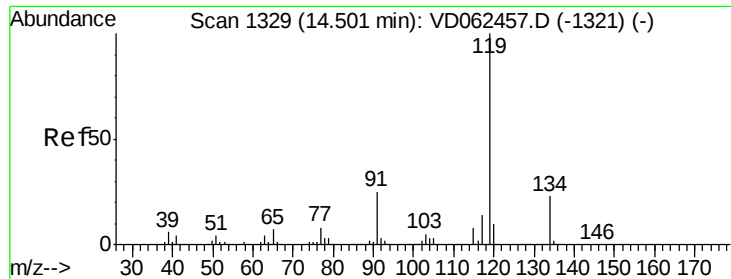
Tot Ion:105 Resp: 1275717
 Ion Ratio Lower Upper
 105 100
 120 43.6 23.1 69.2



#85
 sec-Butylbenzene
 Concen: 1276.225 ug/l
 RT: 14.37 min Scan# 1316
 Delta R.T. -0.00 min
 Lab File: VD062511.D
 Acq: 22 May 2019 19:02

Tgt Ion:105 Resp: 1734672
 Ion Ratio Lower Upper
 105 100
 134 18.9 8.9 26.7

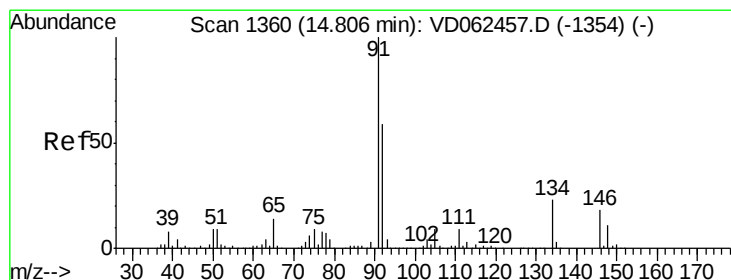
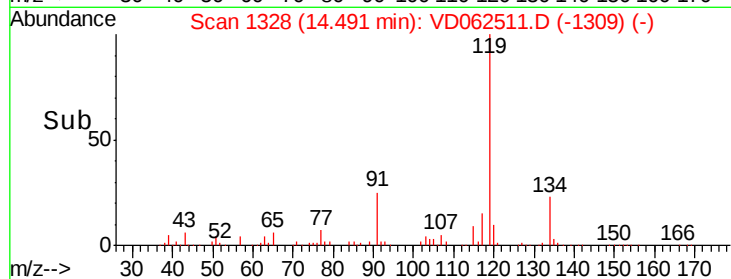
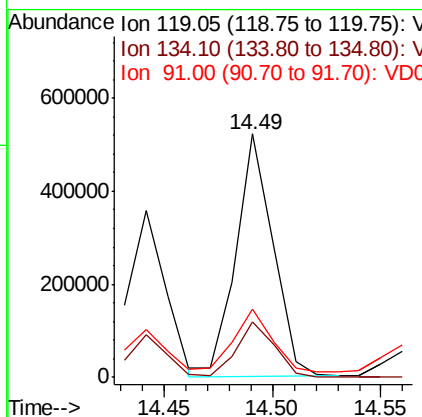
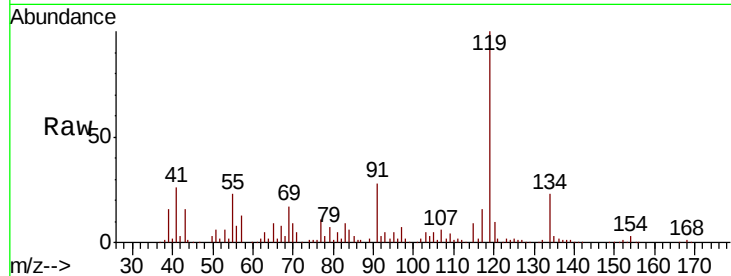




#86
p-Isopropyltoluene
Concen: 503.442 ug/l
RT: 14.49 min Scan# 1328
Delta R.T. -0.01 min
Lab File: VD062511.D
Acq: 22 May 2019 19:02

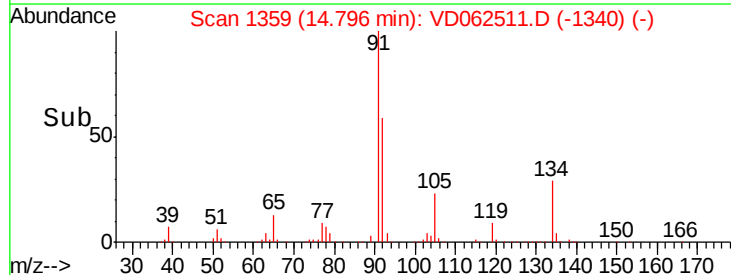
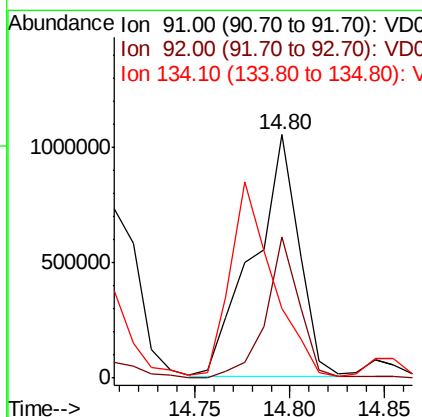
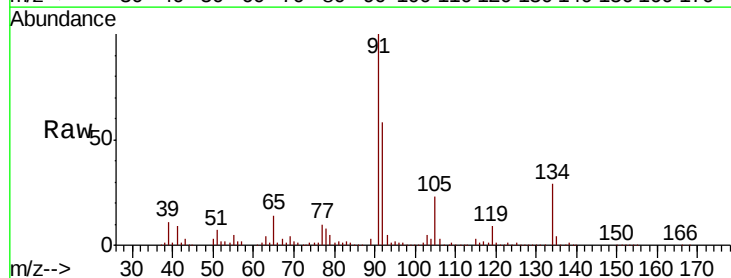
Instrument :
MSVOA_D
ClientSampled :

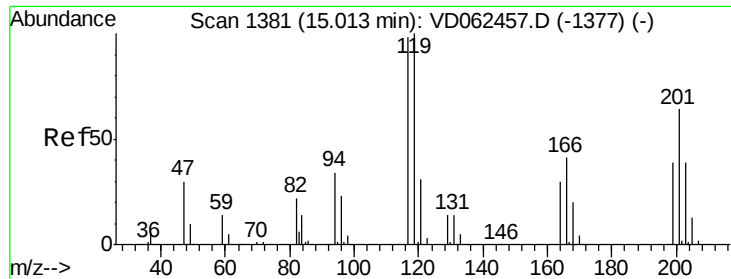
Tot Ion:119 Resp: 620120
Ion Ratio Lower Upper
119 100
134 23.0 12.8 38.3
91 28.1 10.7 32.1



#89
n-Butylbenzene
Concen: 1471.966 ug/l
RT: 14.80 min Scan# 1359
Delta R.T. -0.01 min
Lab File: VD062511.D
Acq: 22 May 2019 19:02

Tgt Ion: 91 Resp: 1749805
Ion Ratio Lower Upper
91 100
92 57.8 30.3 91.0
134 28.6 14.5 43.6





#90

Hexachloroethane

Concen: 837.711 ug/l

RT: 15.05 min Scan# 1385

Delta R.T. 0.04 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

Instrument :

MSVOA_D

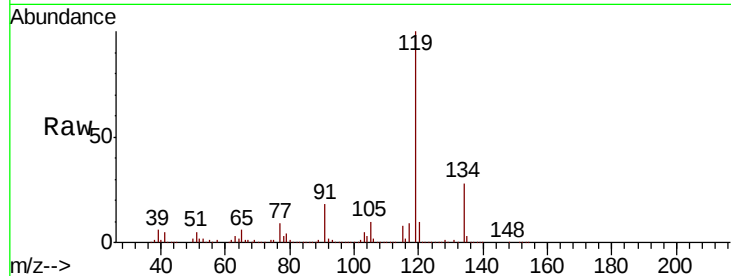
ClientSampleId :

Tot Ion:117 Resp: 285172

Ion Ratio Lower Upper

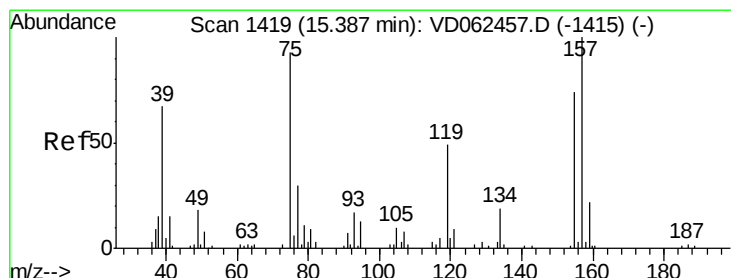
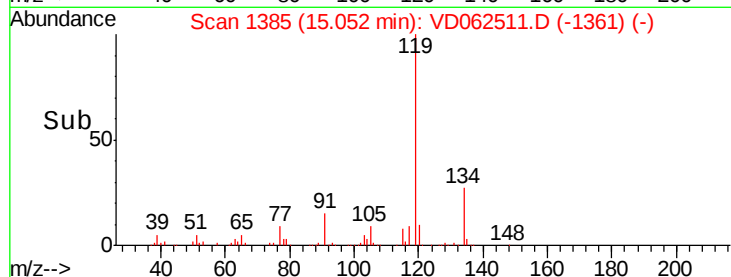
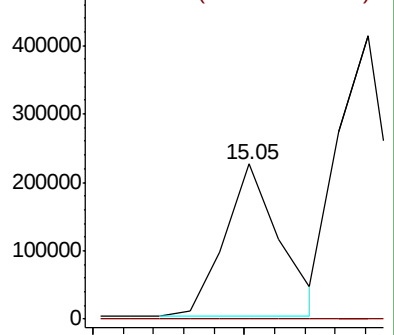
117 100

201 0.0 30.2 90.6#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 124.211 ug/l

RT: 15.37 min Scan# 1417

Delta R.T. -0.02 min

Lab File: VD062511.D

Acq: 22 May 2019 19:02

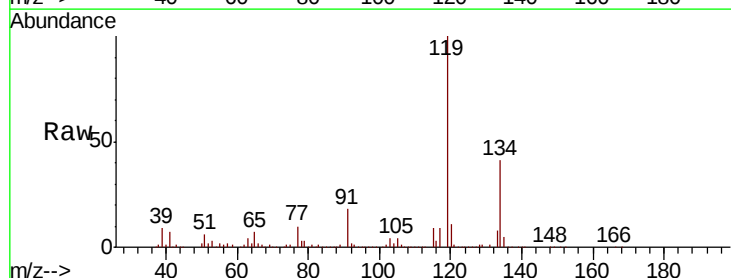
Tgt Ion: 75 Resp: 5773

Ion Ratio Lower Upper

75 100

155 0.0 55.3 165.8#

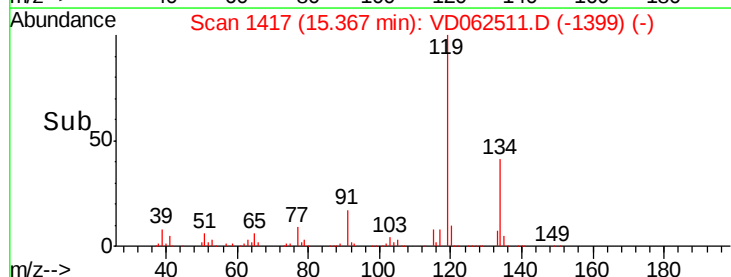
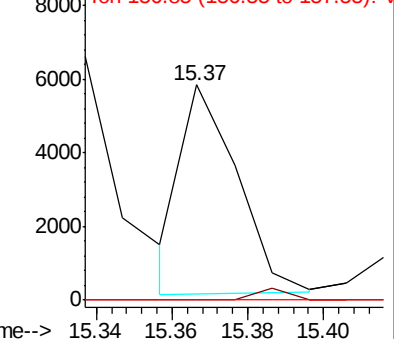
157 0.0 67.8 203.2#

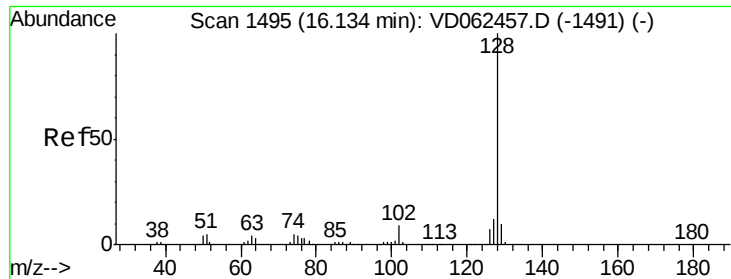


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V





#95
 Naphthalene
 Concen: 427.701 ug/l
 RT: 16.11 min Scan# 1493
 Delta R.T. -0.02 min
 Lab File: VD062511.D
 Acq: 22 May 2019 19:02

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.0	9.8	14.8
129	10.1	8.8	13.2

