

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
 Data File : VD062513.D
 Acq On : 22 May 2019 19:56
 Operator : VA/AP
 Sample : K2996-12
 Misc : 5.76g/5ml/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: May 23 03:17:02 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	7.10	168	44605	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	8.32	114	64386	50.00	ug/l	0.09
63) Chlorobenzene-d5	12.48	117	89783	50.00	ug/l	0.10
72) 1,4-Dichlorobenzene-d4	14.52	152	5508	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.67	65	16902	35.40	ug/l	0.20
Spiked Amount	50.000		Recovery	=	70.80%	
35) Dibromofluoromethane	6.92	113	124678	214.65	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	429.30%	
50) Toluene-d8	10.56	98	102369	80.54	ug/l	0.13
Spiked Amount	50.000		Recovery	=	161.08%	
62) 4-Bromofluorobenzene	13.70	95	65284	117.41	ug/l	0.13
Spiked Amount	50.000		Recovery	=	234.82%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.69	50	1079	3.492	ug/l #	43
5) Bromomethane	2.17	94	211	1.504	ug/l #	12
6) Chloroethane	2.34	64	1373	8.729	ug/l #	1
8) Diethyl Ether	2.85	74	214	2.112	ug/l #	1
11) Tert butyl alcohol	4.08	59	1522	69.059	ug/l #	1
15) Acrylonitrile	4.25	53	51190	1013.635	ug/l #	43
16) Acetone	3.28	43	4674966	54638.766	ug/l #	58
17) Carbon Disulfide	3.37	76	24431	24.421	ug/l	96
19) Methyl tert-butyl Ether	4.28	73	2731	3.579	ug/l #	1
20) Methylene Chloride	3.78	84	13341	34.621	ug/l #	1
22) Diisopropyl ether	5.18	45	2902	2.799	ug/l #	1
24) 1,1-Dichloroethane	4.96	63	4023	6.025	ug/l #	85
25) 2-Butanone	6.05	43	1368070	15287.585	ug/l #	56
26) 2,2-Dichloropropane	6.05	77	9645	13.400	ug/l #	51
30) Chloroform	6.67	83	1708919	2007.576	ug/l #	65
36) 1,1-Dichloropropene	7.23	75	1996	3.243	ug/l #	1
37) Ethyl Acetate	6.27	43	2850411	11919.479	ug/l #	72
39) Methylcyclohexane	8.92	83	1608828	3168.694	ug/l #	1
40) Benzene	7.59	78	31351	25.964	ug/l #	1
41) Methacrylonitrile	6.65	41	734910	2446.914	ug/l #	63
42) 1,2-Dichloroethane	7.66	62	2962	4.633	ug/l #	1
43) Isopropyl Acetate	9.26	43	20015208	63090.744	ug/l #	44
46) Dibromomethane	9.17	93	6758	25.336	ug/l #	1
47) Bromodichloromethane	9.62	83	3907600	5758.824	ug/l #	48
48) Methyl methacrylate	9.24	41	3217071	15068.983	ug/l #	63
49) 1,4-Dioxane	9.16	88	197	102.876	ug/l #	1
52) Toluene	10.63	92	18379	22.234	ug/l #	1
53) t-1,3-Dichloropropene	11.08	75	9820	17.383	ug/l #	1
54) cis-1,3-Dichloropropene	10.29	75	801	1.359	ug/l #	1
55) 1,1,2-Trichloroethane	11.27	97	3976136	14192.763	ug/l #	28
56) Ethyl methacrylate	11.19	69	11111516	37101.348	ug/l #	76
58) 2-Chloroethyl Vinyl ether	9.95	63	22151	144.038	ug/l #	46
59) 2-Hexanone	11.68	43	9639649	63286.551	ug/l #	32
60) Dibromochloromethane	11.83	129	32483	60.367	ug/l #	11

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

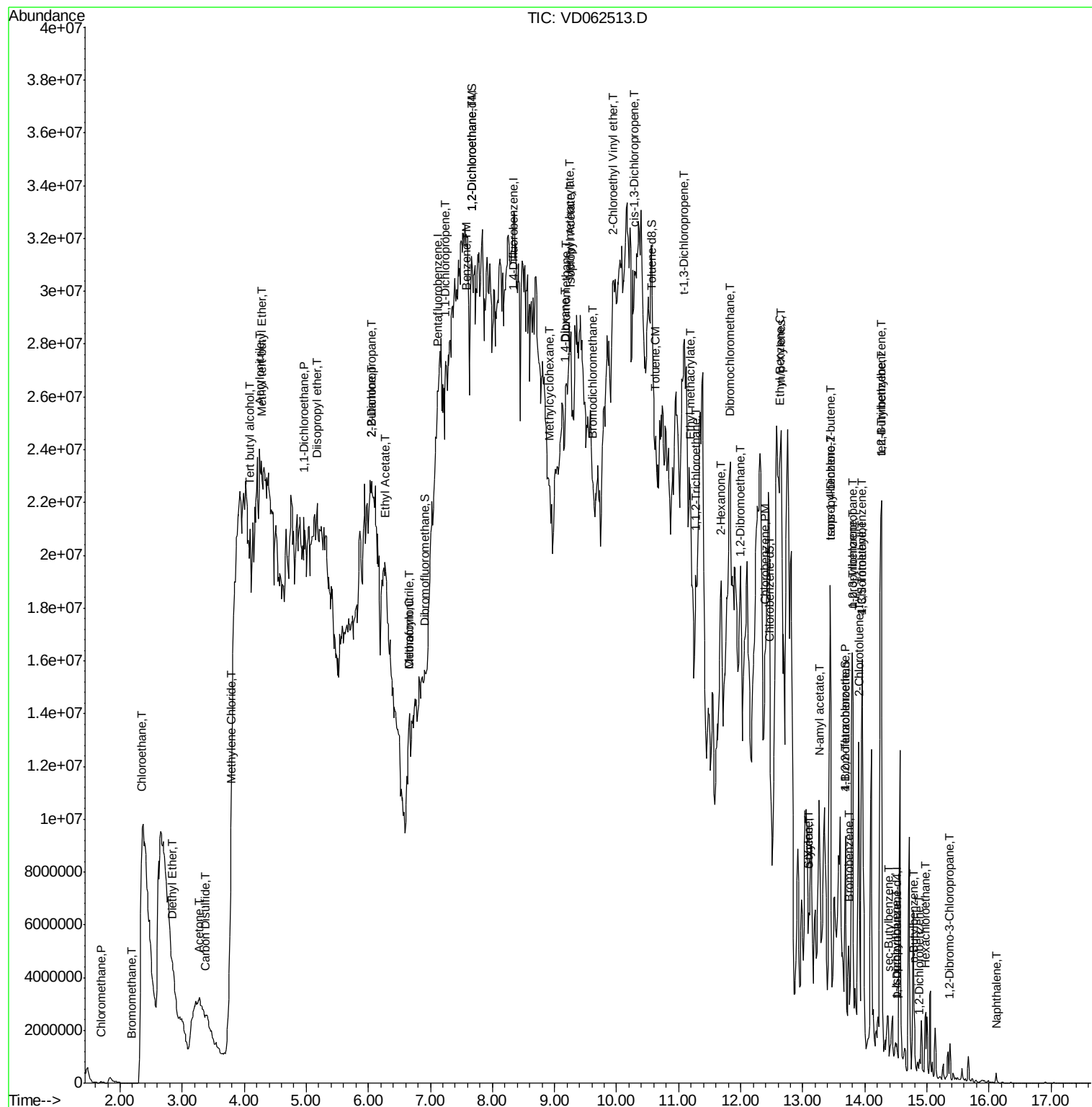
61) 1,2-Dibromoethane	11.98	107	90114	261.009	ug/l #	1
65) Chlorobenzene	12.39	112	5018	2.906	ug/l #	48
67) Ethyl Benzene	12.62	91	41390165	13917.810	ug/l #	76
68) m/p-Xylenes	12.64	106	16096224	15078.244	ug/l	100
69) o-Xylene	13.10	106	145870	144.823	ug/l	70
70) Styrene	13.10	104	11452	6.684	ug/l #	1
73) Isopropylbenzene	13.44	105	13615767	39217.039	ug/l	92
74) N-amyl acetate	13.25	43	1297638	15132.796	ug/l #	51
75) 1,1,2,2-Tetrachloroethane	13.69	83	128476	2051.163	ug/l #	84
76) 1,2,3-Trichloropropane	13.80	75	106569	1642.611	ug/l #	1
77) Bromobenzene	13.74	156	1164	11.819	ug/l #	1
78) n-propylbenzene	13.80	91	13560892	33719.983	ug/l	90
79) 2-Chlorotoluene	13.90	91	962837	3945.142	ug/l #	38
80) 1,3,5-Trimethylbenzene	13.95	105	8922529	29680.972	ug/l	92
81) trans-1,4-Dichloro-2-buten	13.44	75	195605	10690.376	ug/l #	9
82) 4-Chlorotoluene	13.95	91	1027977	3657.398	ug/l #	37
83) tert-Butylbenzene	14.27	119	2501419	7501.567	ug/l #	73
84) 1,2,4-Trimethylbenzene	14.27	105	17157128	55699.107	ug/l	84
85) sec-Butylbenzene	14.38	105	789015	2269.268	ug/l	99
86) p-Isopropyltoluene	14.49	119	293515	931.524	ug/l	89
89) n-Butylbenzene	14.80	91	1116426	3671.373	ug/l	98
90) Hexachloroethane	14.98	117	202690	2327.608	ug/l #	20
91) 1,2-Dichlorobenzene	14.88	146	237	1.602	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	15.37	75	4094	344.348	ug/l #	1
95) Naphthalene	16.12	128	244409	1536.004	ug/l	99

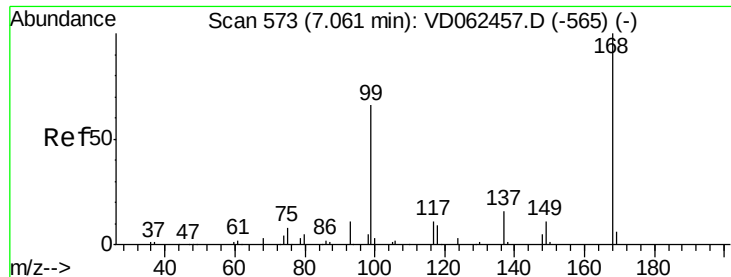
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.10 min Scan# 577

Delta R.T. 0.04 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

Instrument :

MSVOA_D

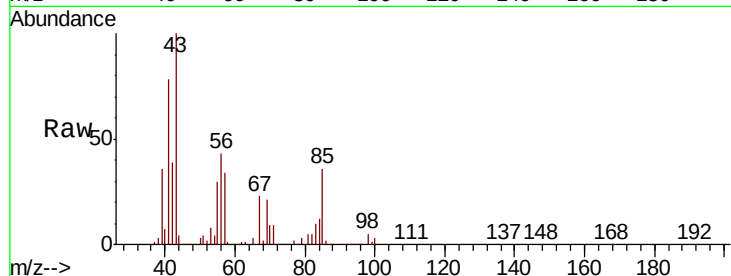
ClientSampleId :

Tot Ion:168 Resp: 44605

Ion Ratio Lower Upper

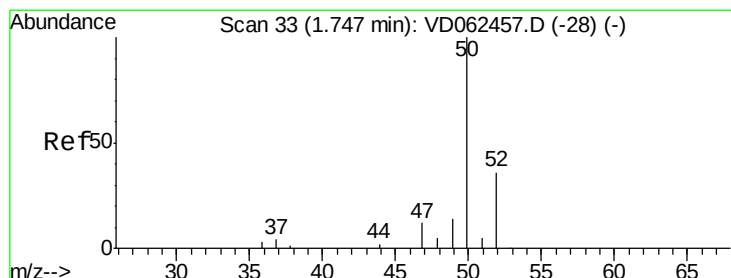
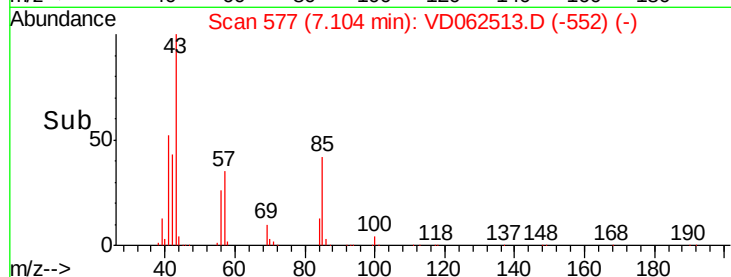
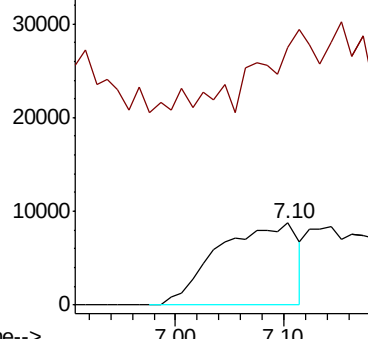
168 100

99 314.8 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: 3.492 ug/l

RT: 1.69 min Scan# 27

Delta R.T. -0.06 min

Lab File: VD062513.D

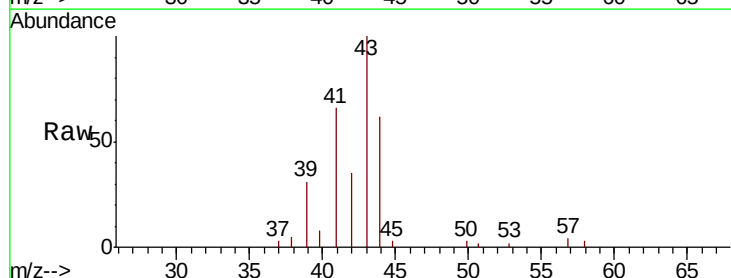
Acq: 22 May 2019 19:56

Tgt Ion: 50 Resp: 1079

Ion Ratio Lower Upper

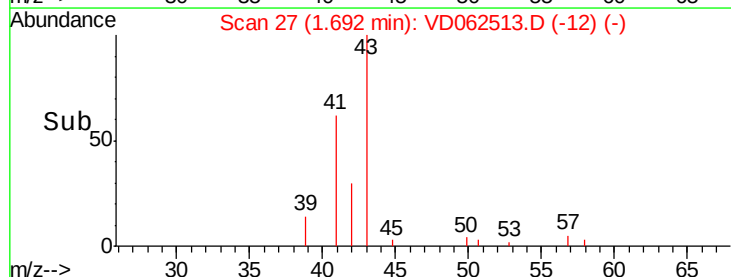
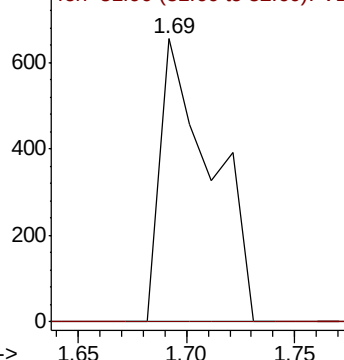
50 100

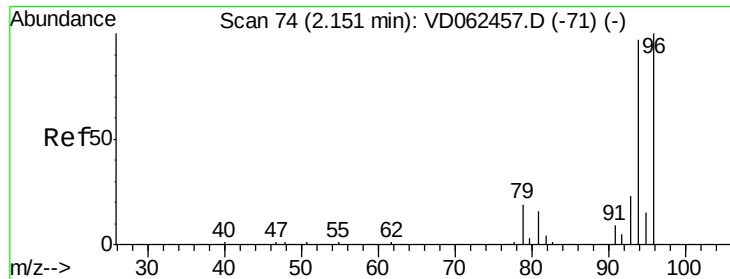
52 0.0 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

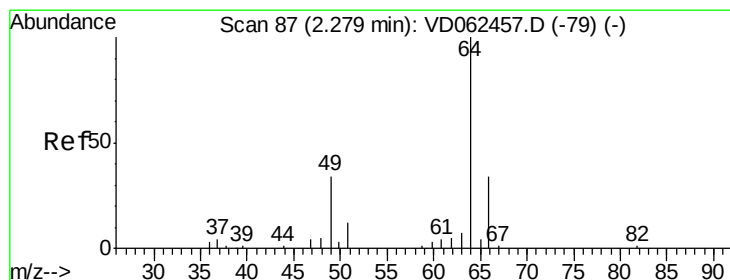
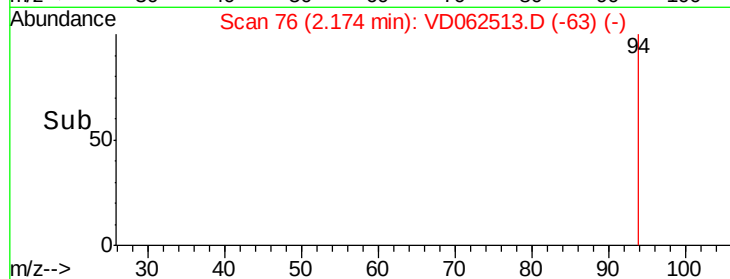
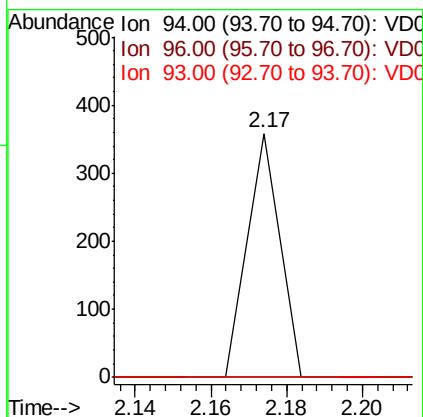
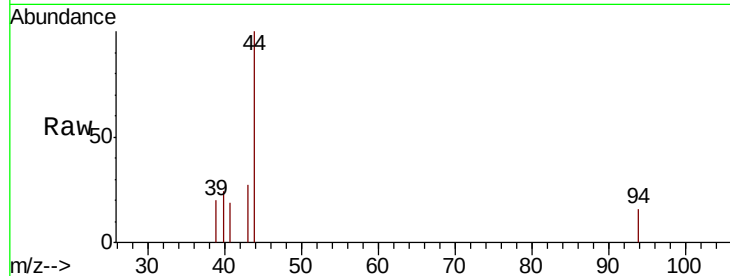




#5
Bromomethane
Concen: 1.504 ug/l
RT: 2.17 min Scan# 76
Delta R.T. 0.02 min
Lab File: VD062513.D
Acq: 22 May 2019 19:56

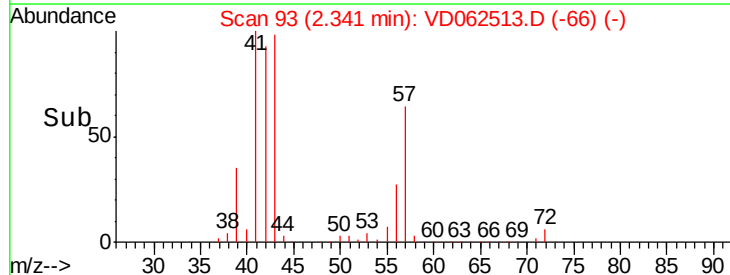
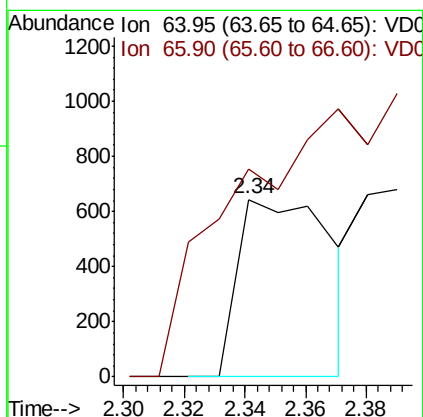
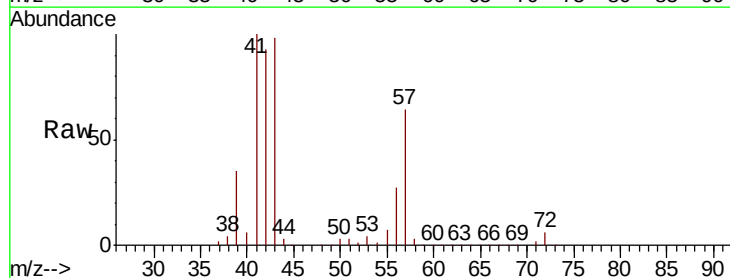
Instrument :
MSVOA_D
ClientSampled :

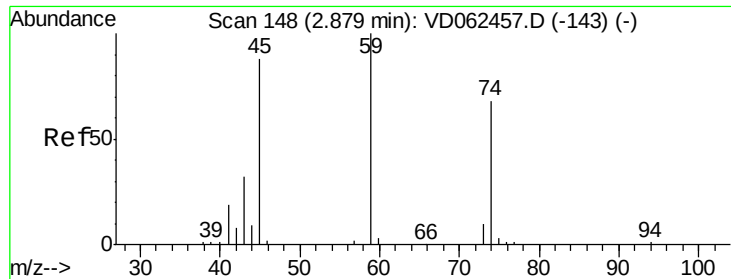
Tot Ion: 94 Resp: 211
Ion Ratio Lower Upper
94 100
96 0.0 76.6 115.0#
93 0.0 18.5 27.7#



#6
Chloroethane
Concen: 8.729 ug/l
RT: 2.34 min Scan# 93
Delta R.T. 0.06 min
Lab File: VD062513.D
Acq: 22 May 2019 19:56

Tgt Ion: 64 Resp: 1373
Ion Ratio Lower Upper
64 100
66 117.6 25.6 38.4#





#8

Diethyl Ether

Concen: 2.112 ug/l

RT: 2.85 min Scan# 145

Delta R.T. -0.03 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

Instrument :

MSVOA_D

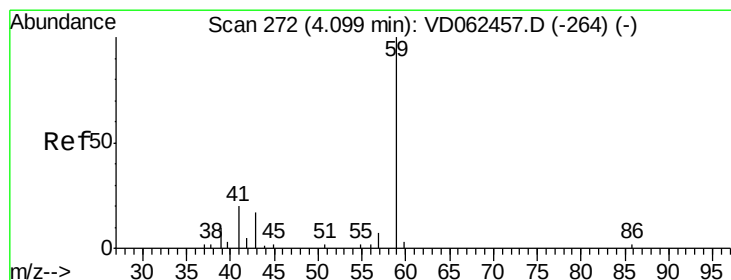
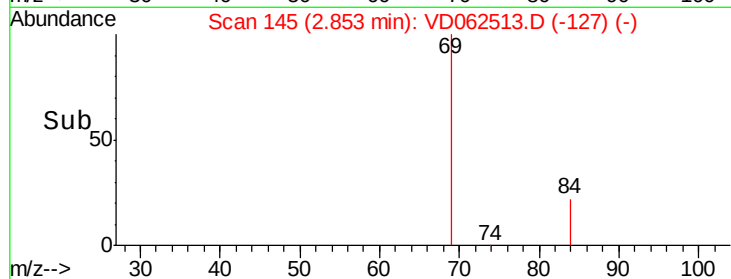
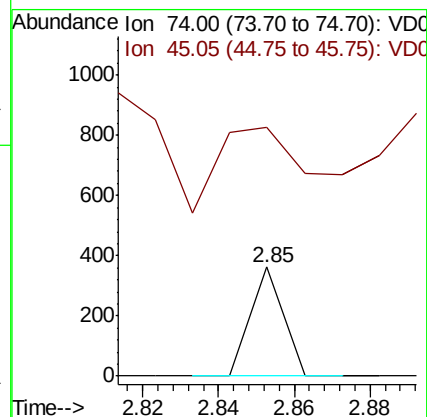
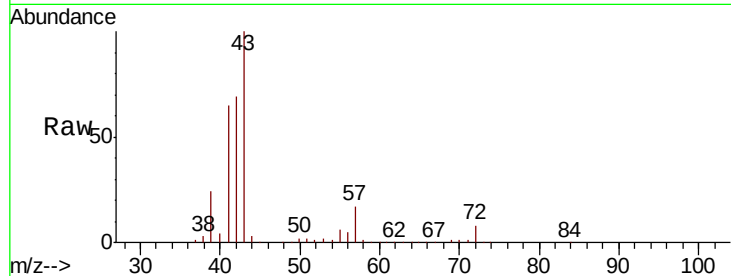
ClientSampled :

Tot Ion: 74 Resp: 214

Ion Ratio Lower Upper

74 100

45 228.7 56.9 170.7#



#11

Tert butyl alcohol

Concen: 69.059 ug/l

RT: 4.08 min Scan# 270

Delta R.T. -0.02 min

Lab File: VD062513.D

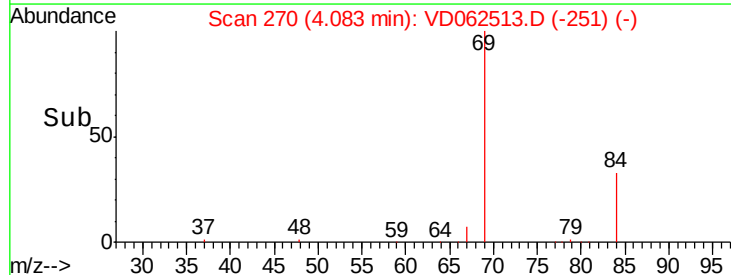
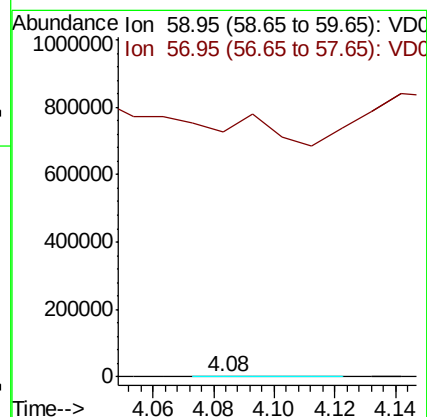
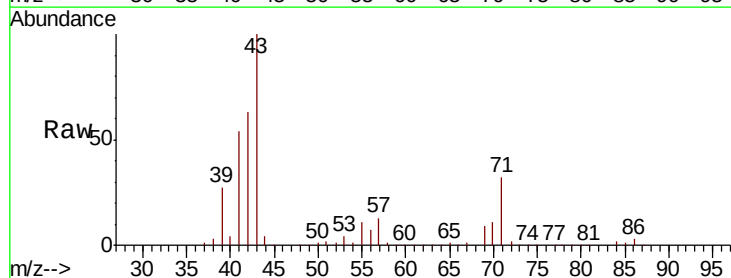
Acq: 22 May 2019 19:56

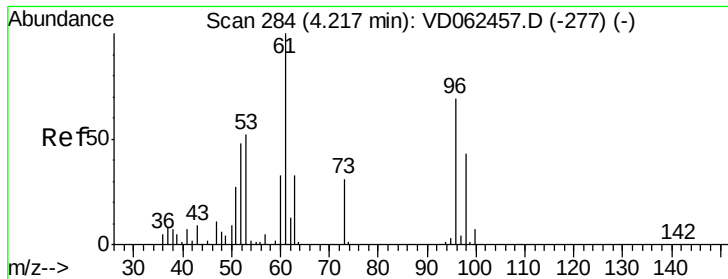
Tgt Ion: 59 Resp: 1522

Ion Ratio Lower Upper

59 100

57 75791.2 6.9 10.3#





#15

Acrylonitrile

Concen: 1013.635 ug/l

RT: 4.25 min Scan# 287

Delta R.T. 0.03 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

Instrument :
MSVOA_D
ClientSampled :

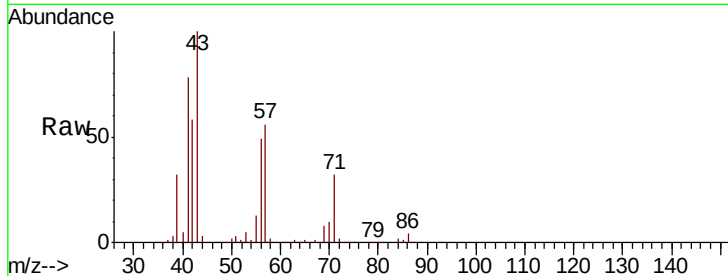
Tot Ion: 53 Resp: 51190

Ion Ratio Lower Upper

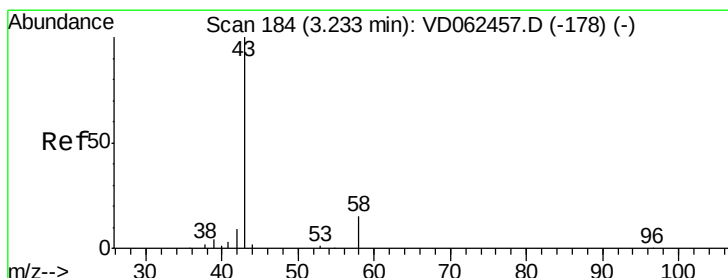
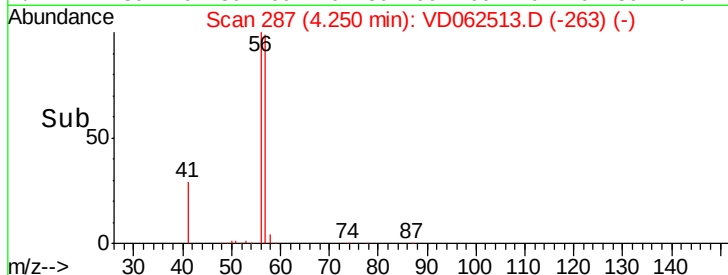
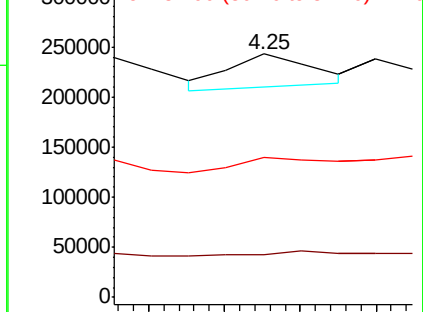
53 100

52 17.4 65.0 97.4#

51 57.7 32.6 48.8#



Abundance Ion 53.00 (52.70 to 53.70): VDC
Ion 52.00 (51.70 to 52.70): VDC
Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 54638.766 ug/l

RT: 3.28 min Scan# 188

Delta R.T. 0.04 min

Lab File: VD062513.D

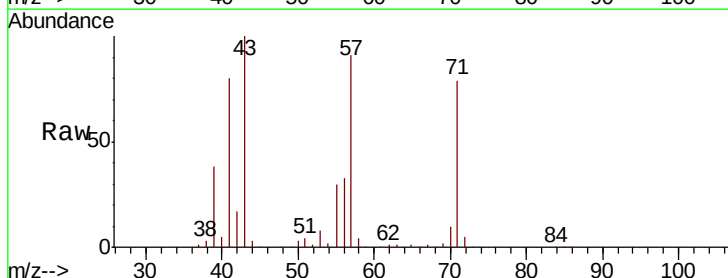
Acq: 22 May 2019 19:56

Tgt Ion: 43 Resp: 4674966

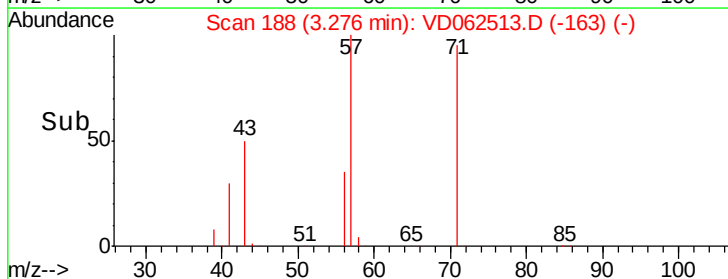
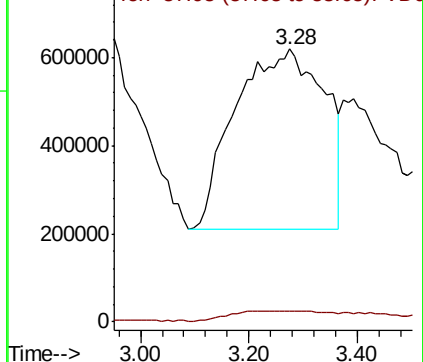
Ion Ratio Lower Upper

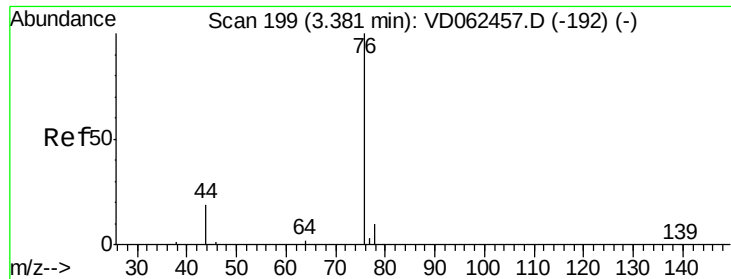
43 100

58 4.0 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: 24.421 ug/l

RT: 3.37 min Scan# 198

Delta R.T. -0.01 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

Instrument :

MSVOA_D

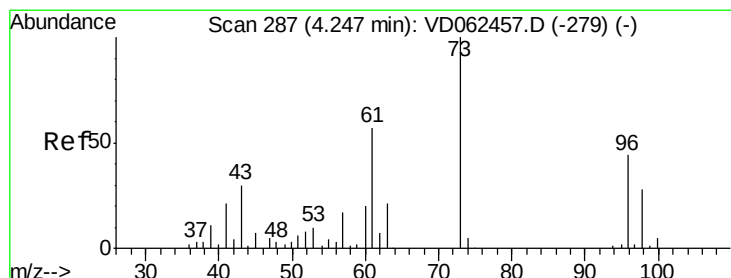
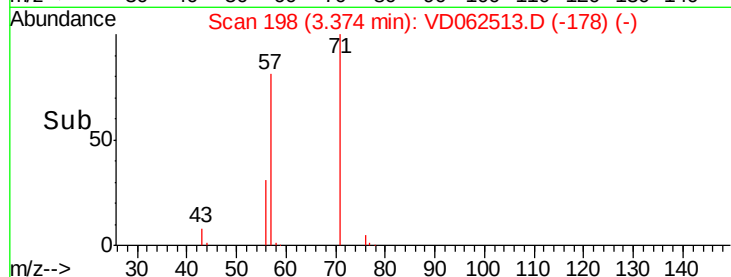
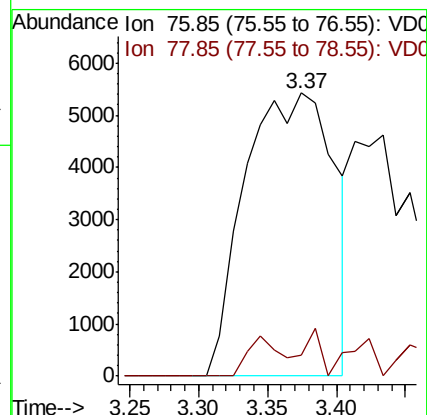
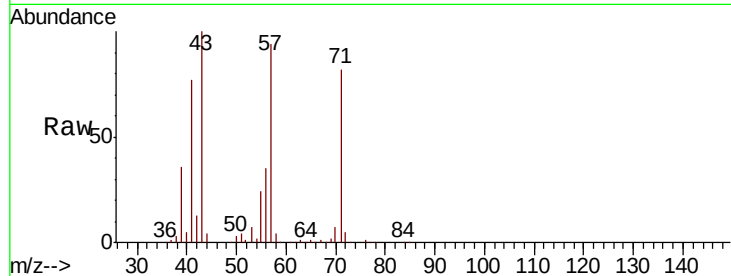
ClientSampleId :

Tot Ion: 76 Resp: 24431

Ion Ratio Lower Upper

76 100

78 7.5 7.2 10.8



#19

Methyl tert-butyl Ether

Concen: 3.579 ug/l

RT: 4.28 min Scan# 290

Delta R.T. 0.03 min

Lab File: VD062513.D

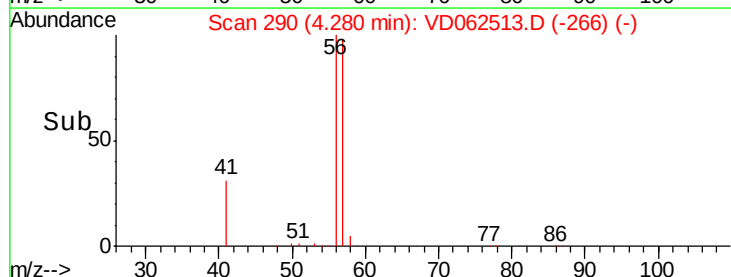
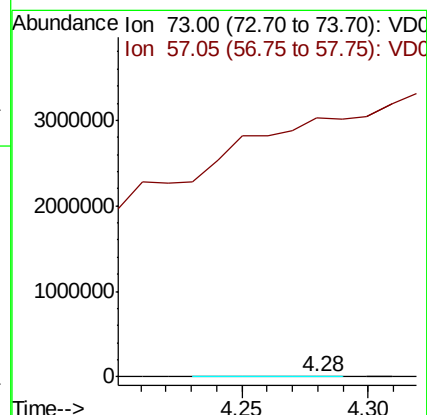
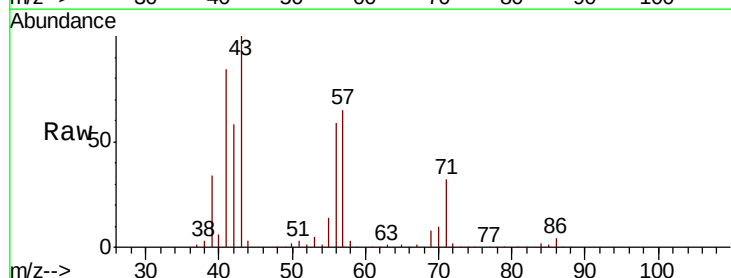
Acq: 22 May 2019 19:56

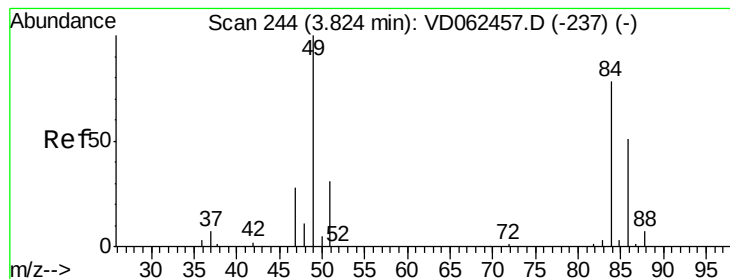
Tgt Ion: 73 Resp: 2731

Ion Ratio Lower Upper

73 100

57 88099.8 16.3 24.5#





#20

Methvlene Chloride

Concen: 34.621 ug/l

RT: 3.78 min Scan# 239

Delta R.T. -0.05 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

Instrument :

MSVOA_D

ClientSampled :

Tot Ion: 84 Resp: 13341

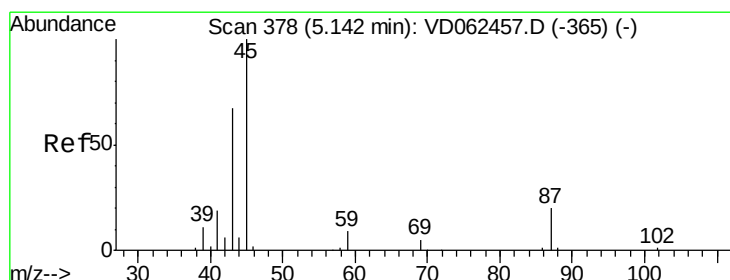
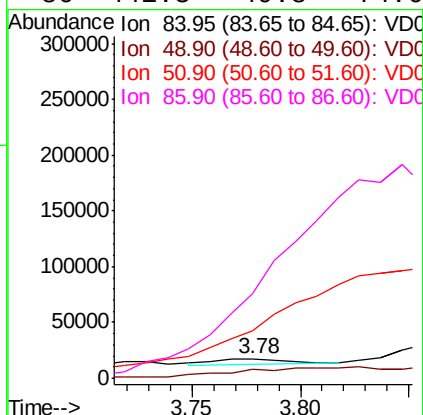
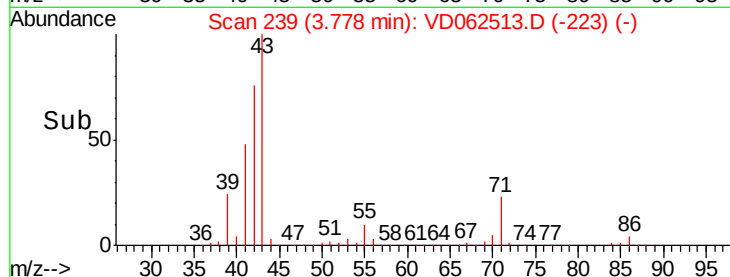
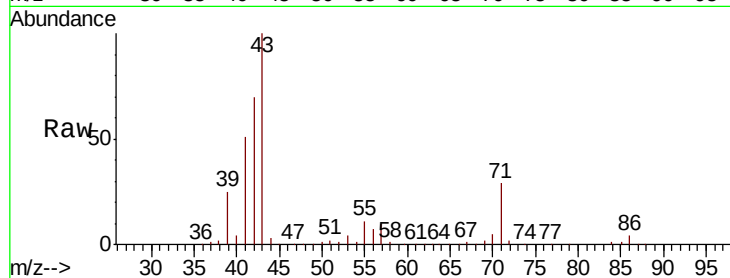
Ion Ratio Lower Upper

84 100

49 44.4 94.0 141.0#

51 245.4 29.0 43.4#

86 441.3 49.8 74.6#



#22

Diisopropyl ether

Concen: 2.799 ug/l

RT: 5.18 min Scan# 381

Delta R.T. 0.03 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

Tgt Ion: 45 Resp: 2902

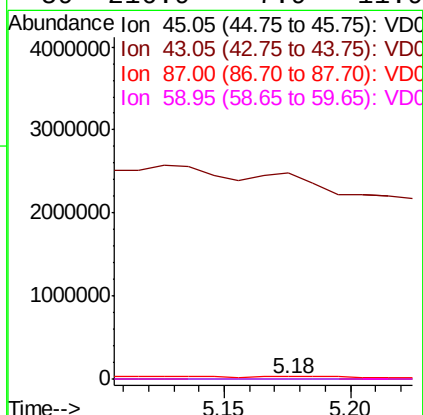
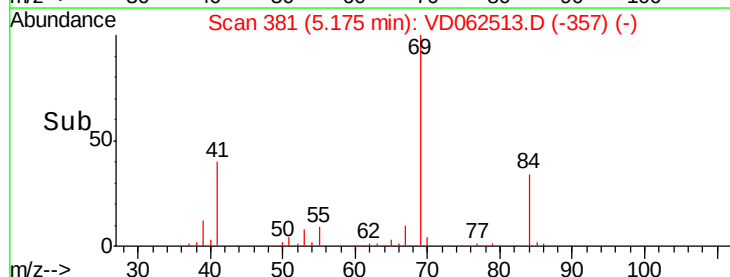
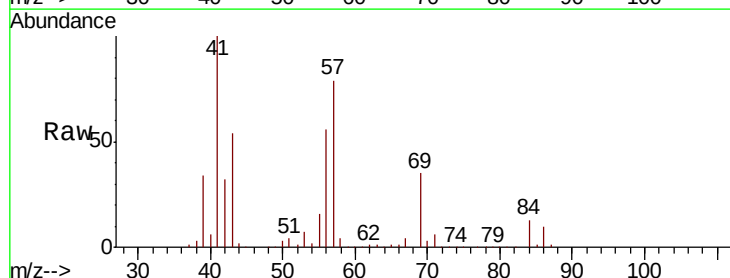
Ion Ratio Lower Upper

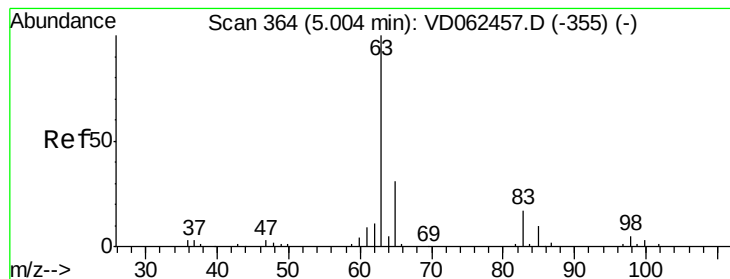
45 100

43 202663.2 46.2 69.2#

87 2303.1 15.9 23.9#

59 216.9 7.9 11.9#





#24

1,1-Dichloroethane

Concen: 6.025 ug/l

RT: 4.96 min Scan# 359

Delta R.T. -0.05 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

Instrument :

MSVOA_D

ClientSampleId :

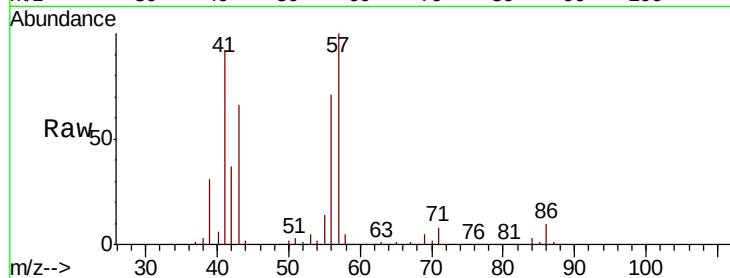
Tot Ion: 63 Resp: 4023

Ion Ratio Lower Upper

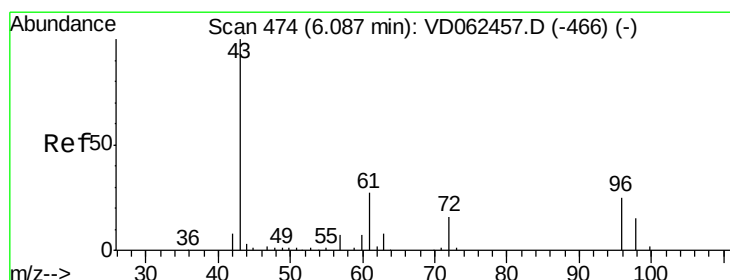
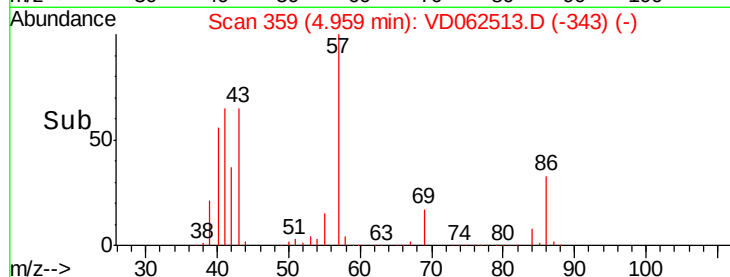
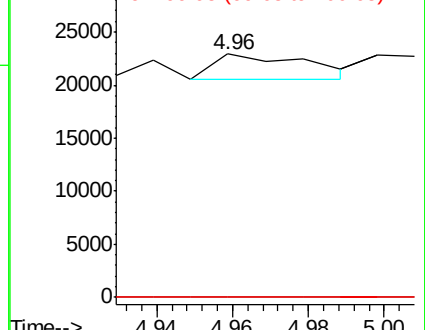
63 100

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



#25

2-Butanone

Concen: 15287.585 ug/l

RT: 6.05 min Scan# 470

Delta R.T. -0.04 min

Lab File: VD062513.D

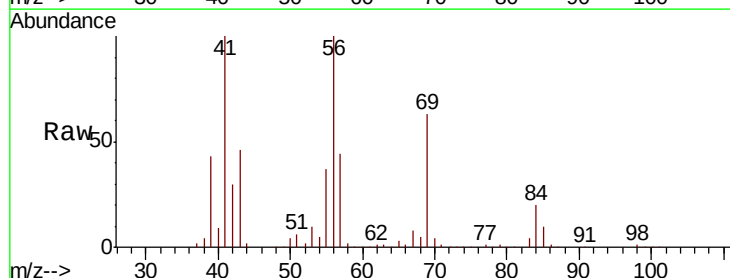
Acq: 22 May 2019 19:56

Tgt Ion: 43 Resp: 1368070

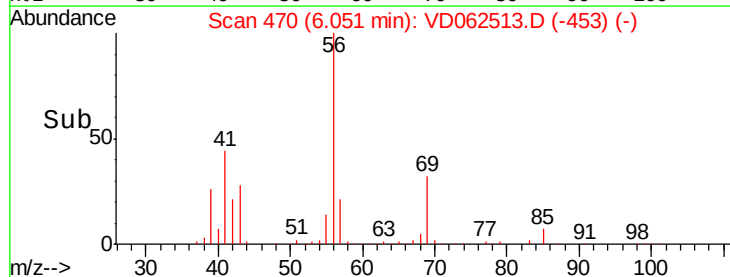
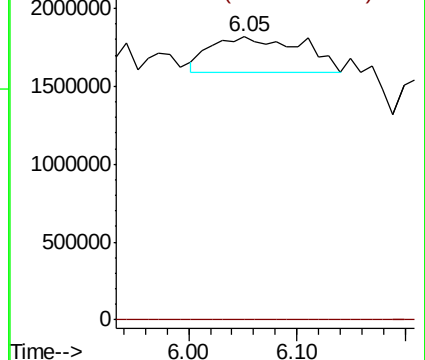
Ion Ratio Lower Upper

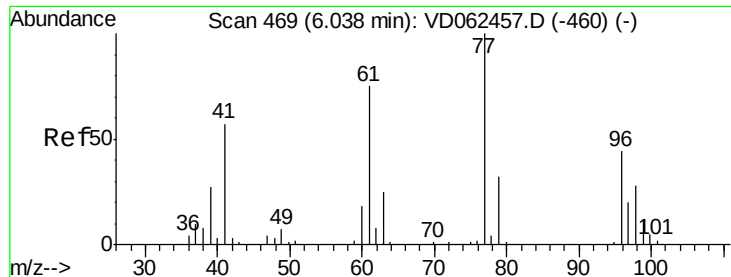
43 100

72 0.1 16.2 24.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC

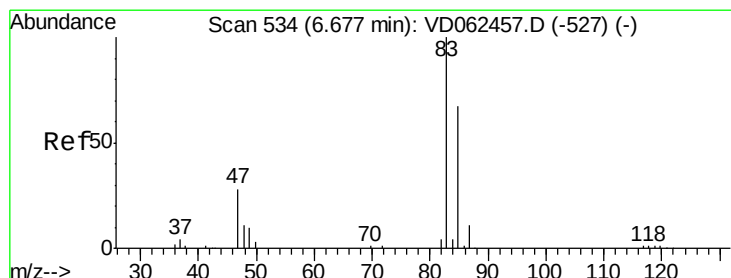
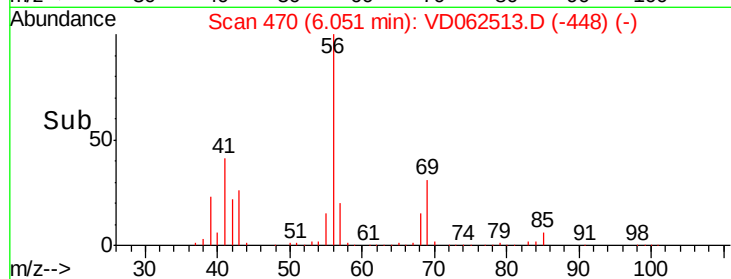
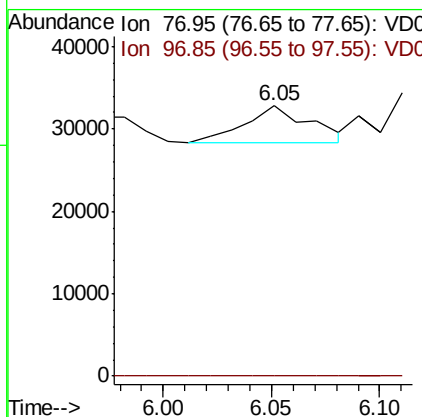
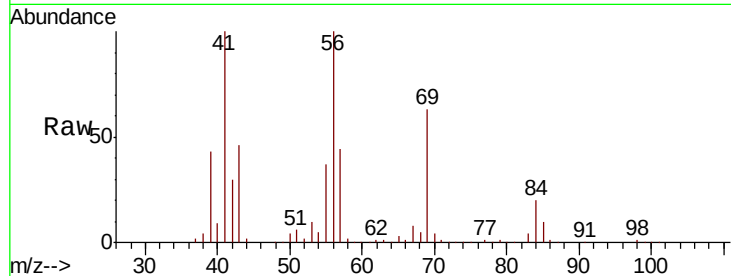




#26
2,2-Dichloropropane
Concen: 13.400 ug/l
RT: 6.05 min Scan# 470
Delta R.T. 0.01 min
Lab File: VD062513.D
Acq: 22 May 2019 19:56

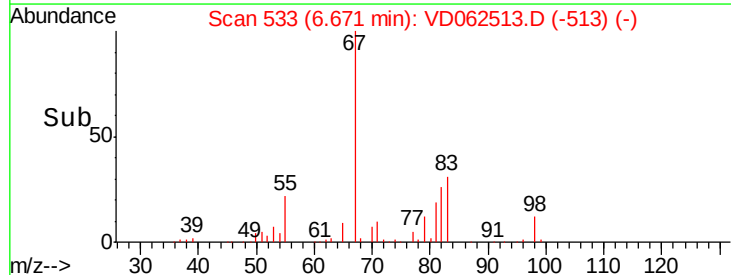
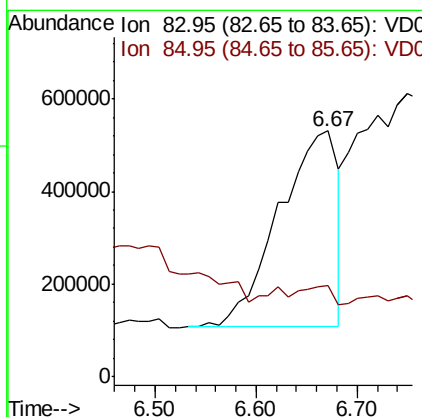
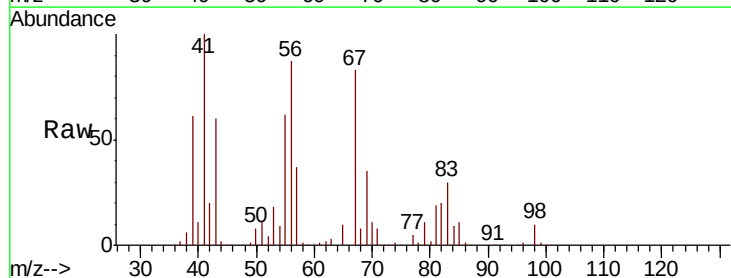
Instrument :
MSVOA_D
ClientSampled :

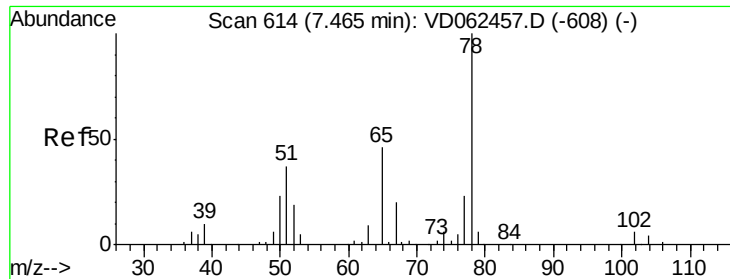
Tot Ion: 77 Resp: 9645
Ion Ratio Lower Upper
77 100
97 0.0 11.9 35.9#



#30
Chloroform
Concen: 2007.576 ug/l
RT: 6.67 min Scan# 533
Delta R.T. -0.01 min
Lab File: VD062513.D
Acq: 22 May 2019 19:56

Tgt Ion: 83 Resp: 1708919
Ion Ratio Lower Upper
83 100
85 37.2 51.7 77.5#

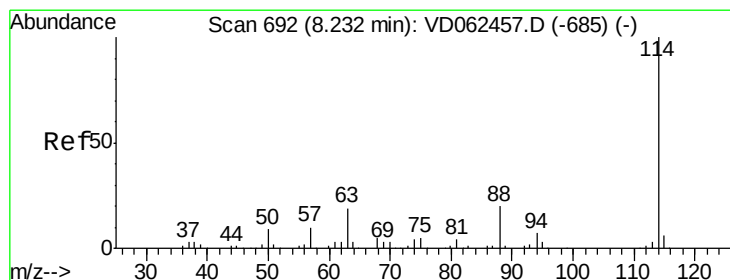
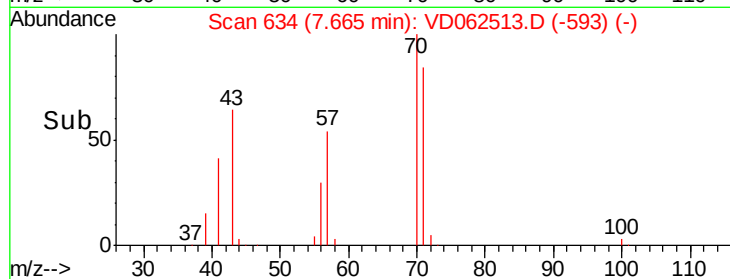
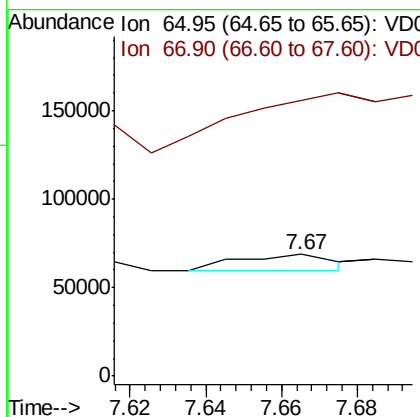
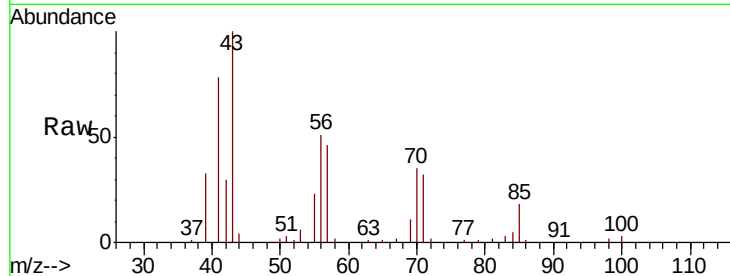




#33
 1,2-Dichloroethane-d4
 Concen: 35.399 ug/l
 RT: 7.67 min Scan# 634
 Delta R.T. 0.20 min
 Lab File: VD062513.D
 Acq: 22 May 2019 19:56

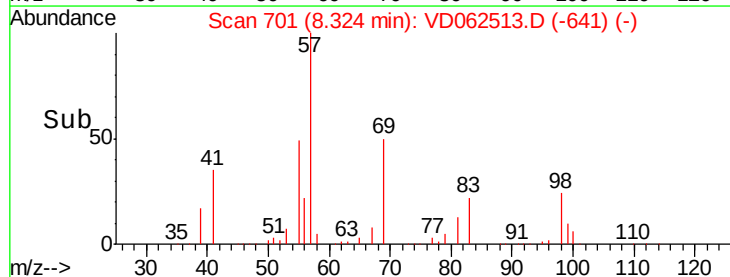
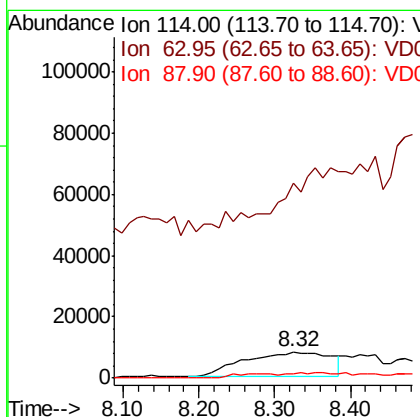
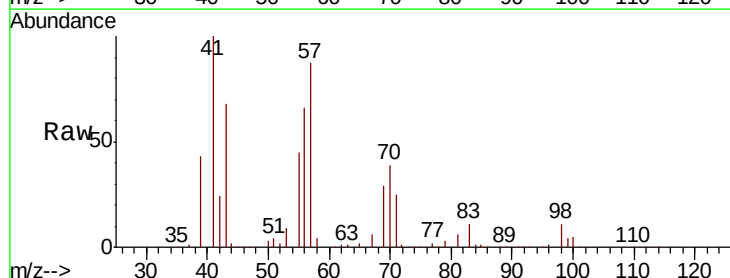
Instrument :
 MSVOA_D
 ClientSampled :

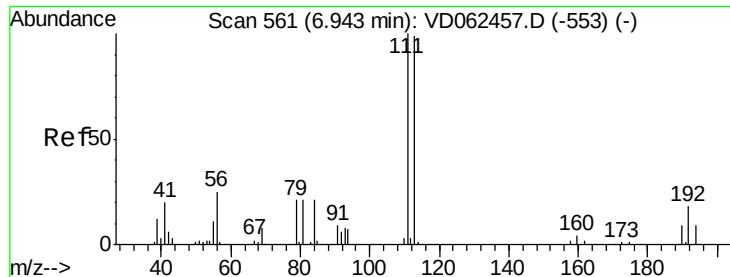
Tot Ion: 65 Resp: 16902
 Ion Ratio Lower Upper
 65 100
 67 226.3 0.0 98.0#



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.32 min Scan# 701
 Delta R.T. 0.09 min
 Lab File: VD062513.D
 Acq: 22 May 2019 19:56

Tgt Ion: 114 Resp: 64386
 Ion Ratio Lower Upper
 114 100
 63 745.8 0.0 32.4#
 88 16.7 0.0 33.6





#35

Dibromofluoromethane

Concen: 214.651 ug/l

RT: 6.92 min Scan# 558

Delta R.T. -0.03 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

Instrument :

MSVOA_D

ClientSampleId :

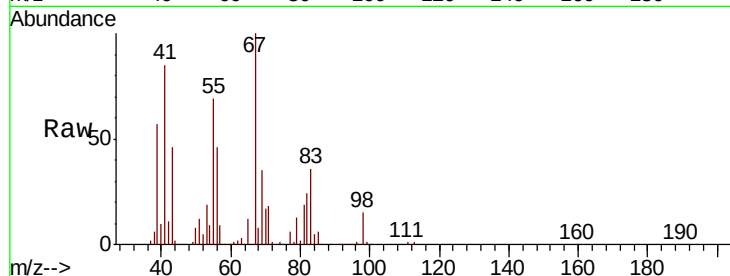
Tot Ion:113 Resp: 124678

Ion Ratio Lower Upper

113 100

111 97.4 78.5 117.7

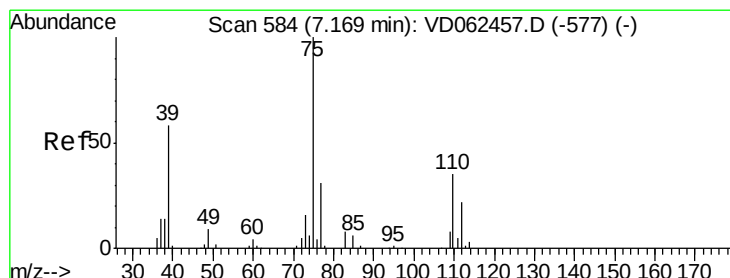
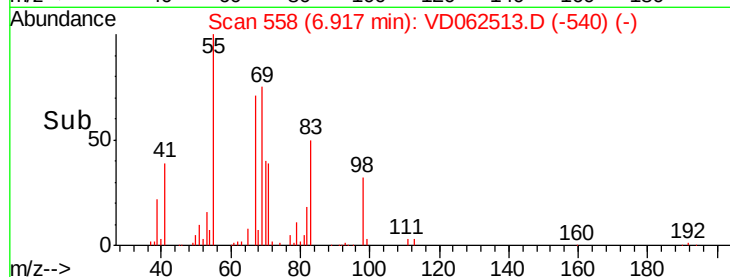
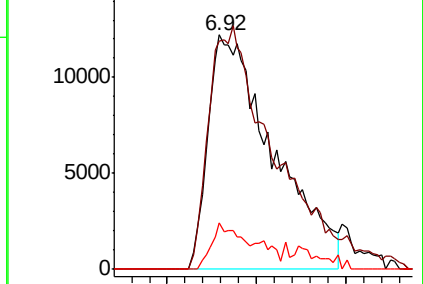
192 19.9 13.0 19.4#



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 3.243 ug/l

RT: 7.23 min Scan# 590

Delta R.T. 0.06 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

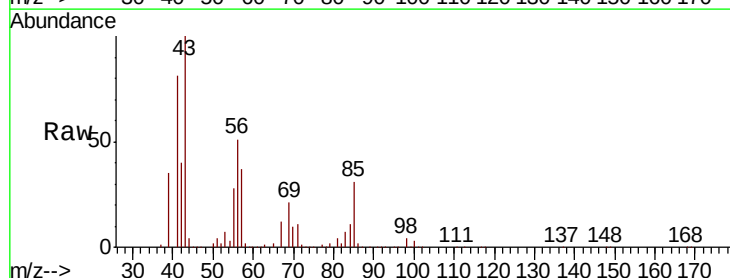
Tgt Ion: 75 Resp: 1996

Ion Ratio Lower Upper

75 100

110 0.0 19.1 57.1#

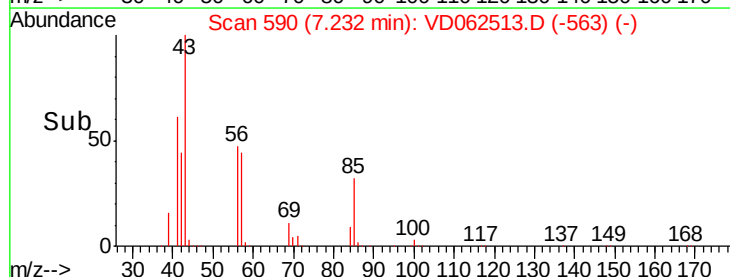
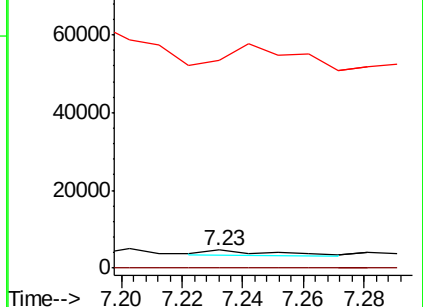
77 1155.3 25.6 38.4#

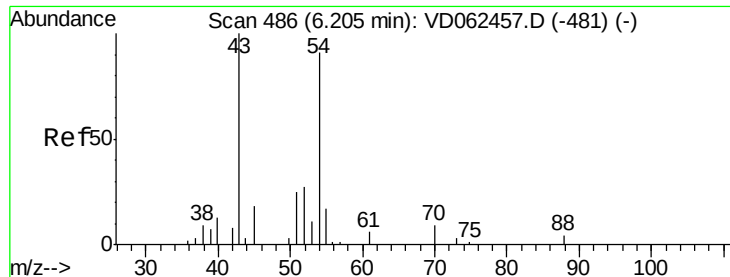


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

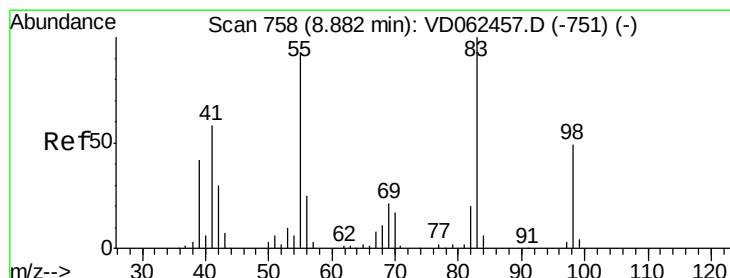
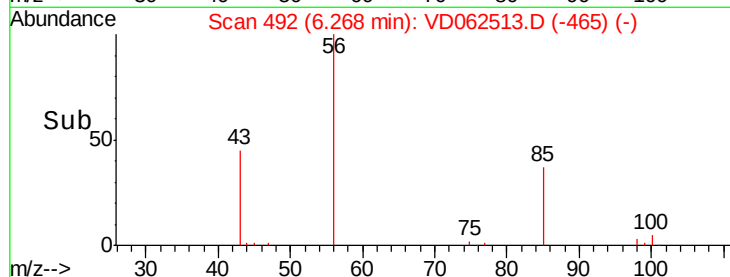
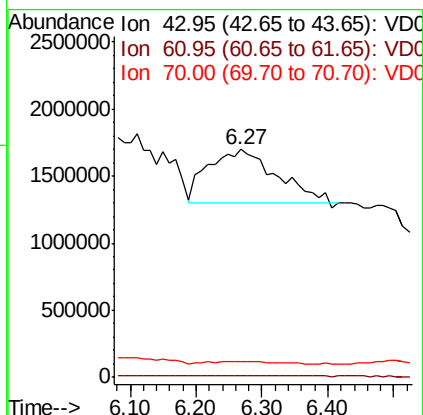
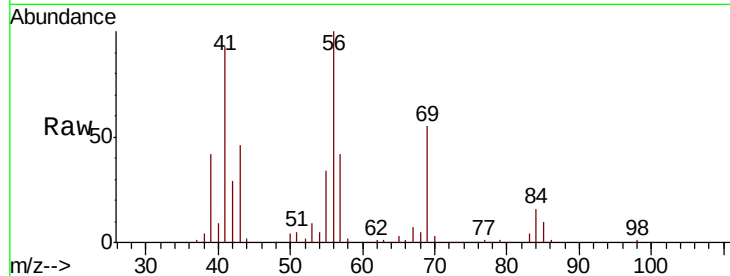




#37
Ethyl Acetate
Concen: 11919.479 ug/l
RT: 6.27 min Scan# 492
Delta R.T. 0.06 min
Lab File: VD062513.D
Acq: 22 May 2019 19:56

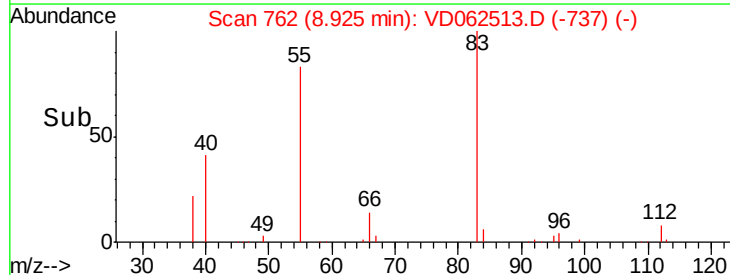
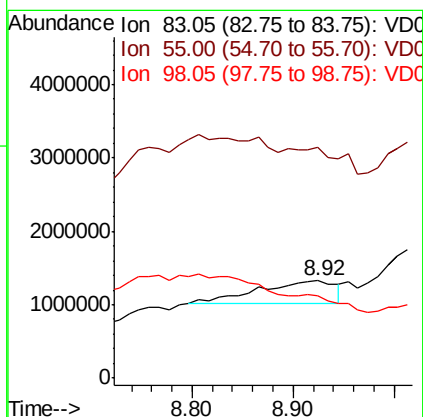
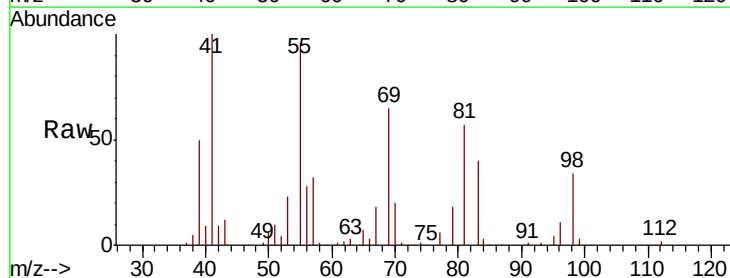
Instrument :
MSVOA_D
ClientSampled :

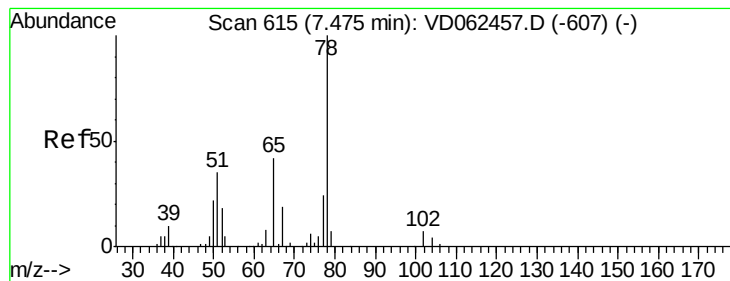
Tot Ion: 43 Resp: 2850411
Ion Ratio Lower Upper
43 100
61 0.7 14.7 22.1#
70 7.2 7.8 11.6#



#39
Methylcyclohexane
Concen: 3168.694 ug/l
RT: 8.92 min Scan# 762
Delta R.T. 0.04 min
Lab File: VD062513.D
Acq: 22 May 2019 19:56

Tgt Ion: 83 Resp: 1608828
Ion Ratio Lower Upper
83 100
55 237.3 68.2 102.4#
98 84.5 38.2 57.4#





#40

Benzene

Concen: 25.964 ug/l

RT: 7.59 min Scan# 626

Delta R.T. 0.11 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

Instrument :

MSVOA_D

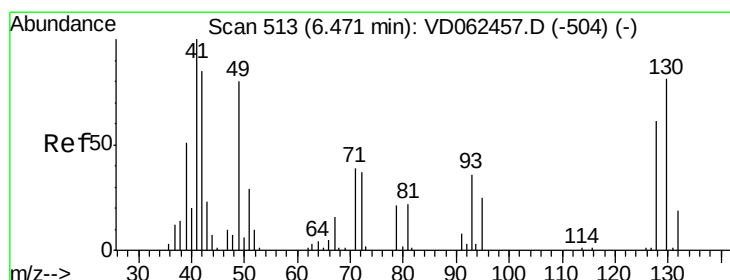
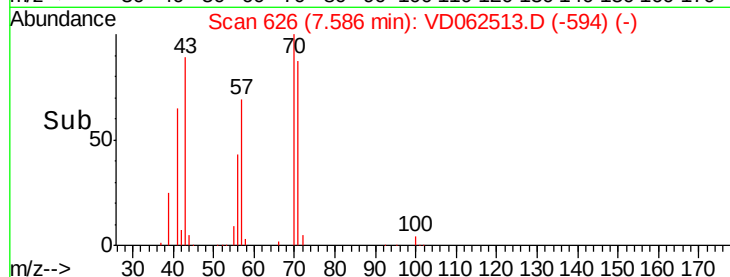
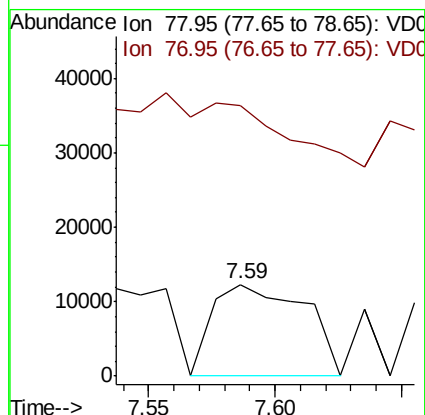
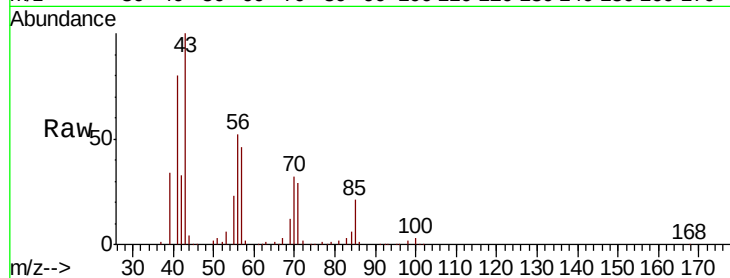
ClientSampled :

Tot Ion: 78 Resp: 31351

Ion Ratio Lower Upper

78 100

77 296.8 19.7 29.5#



#41

Methacrylonitrile

Concen: 2446.914 ug/l

RT: 6.65 min Scan# 531

Delta R.T. 0.18 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

Tgt Ion: 41 Resp: 734910

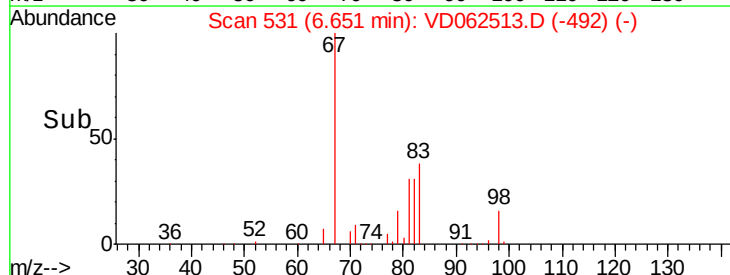
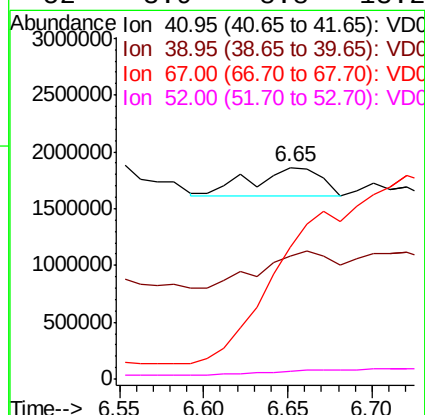
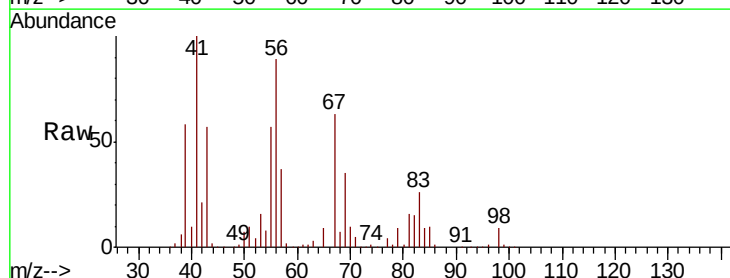
Ion Ratio Lower Upper

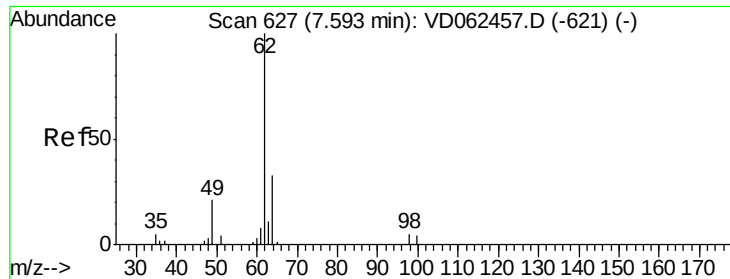
41 100

39 58.3 34.1 51.1#

67 62.6 23.8 35.6#

52 3.9 8.8 13.2#

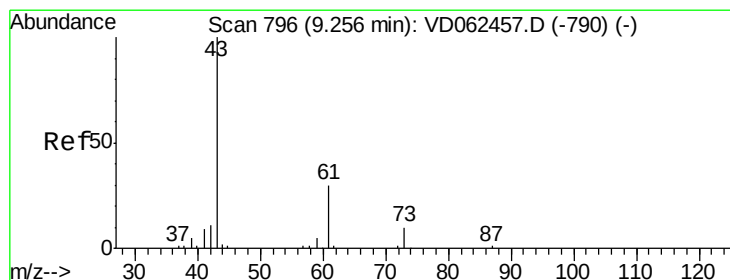
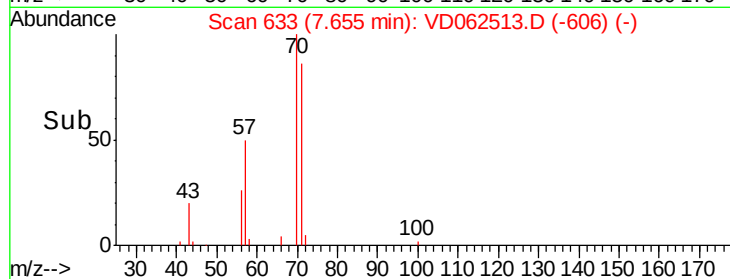
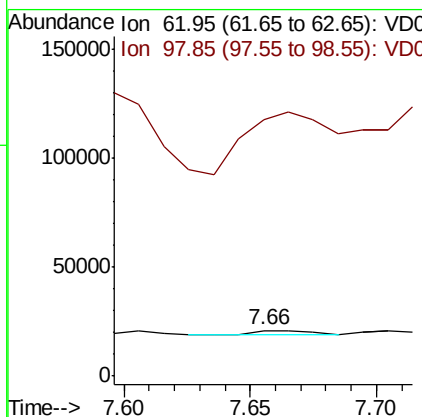
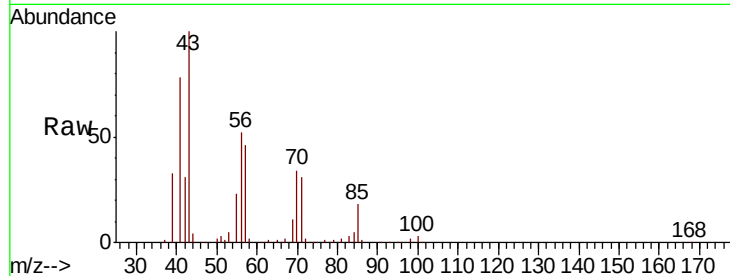




#42
 1,2-Dichloroethane
 Concen: 4.633 ug/l
 RT: 7.66 min Scan# 633
 Delta R.T. 0.06 min
 Lab File: VD062513.D
 Acq: 22 May 2019 19:56

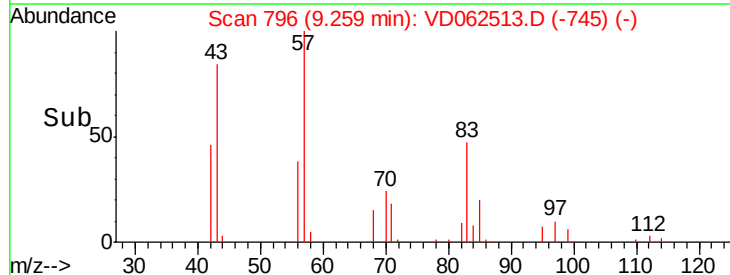
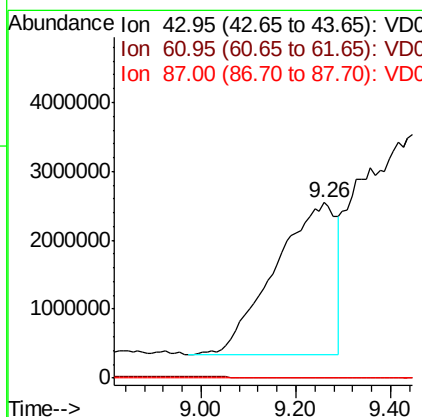
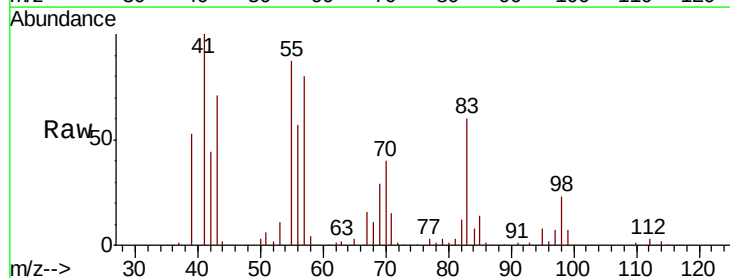
Instrument :
 MSVOA_D
 ClientSampled :

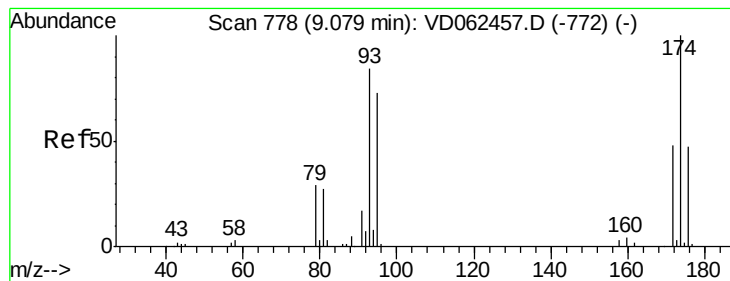
Tot Ion: 62 Resp: 2962
 Ion Ratio Lower Upper
 62 100
 98 565.5 0.0 17.8#



#43
 Isopropyl Acetate
 Concen: 63090.744 ug/l
 RT: 9.26 min Scan# 796
 Delta R.T. 0.00 min
 Lab File: VD062513.D
 Acq: 22 May 2019 19:56

Tgt Ion: 43 Resp: 20015208
 Ion Ratio Lower Upper
 43 100
 61 0.4 25.1 37.7#
 87 0.1 0.0 0.0#





#46

Dibromomethane

Concen: 25.336 ug/l

RT: 9.17 min Scan# 787

Delta R.T. 0.09 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

Instrument :

MSVOA_D

ClientSampled :

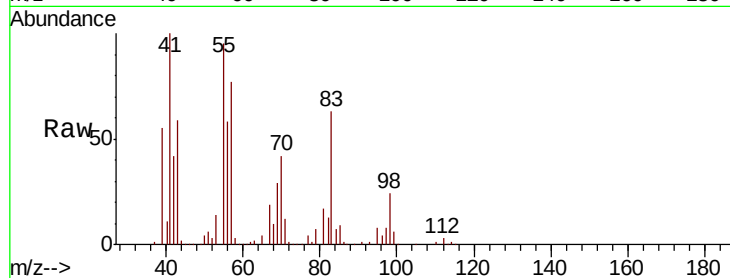
Tot Ion: 93 Resp: 6758

Ion Ratio Lower Upper

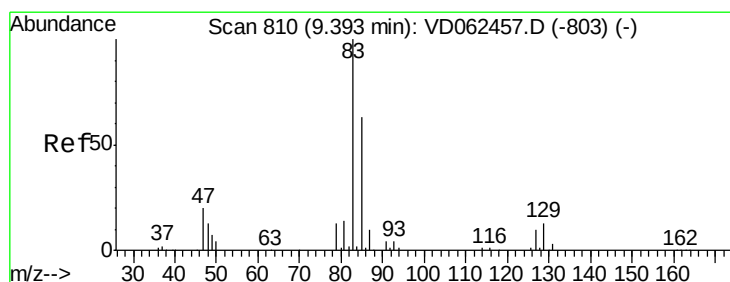
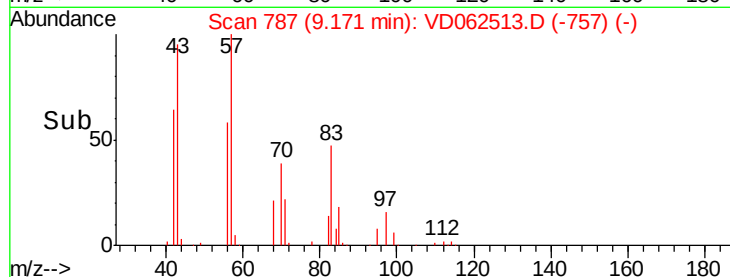
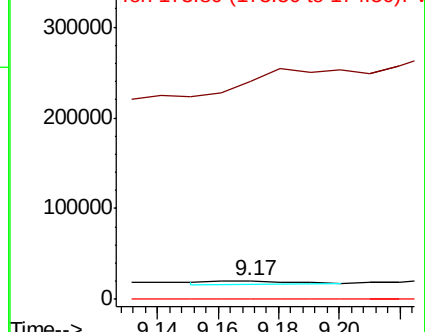
93 100

95 1169.6 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



#47

Bromodichloromethane

Concen: 5758.824 ug/l

RT: 9.62 min Scan# 833

Delta R.T. 0.23 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

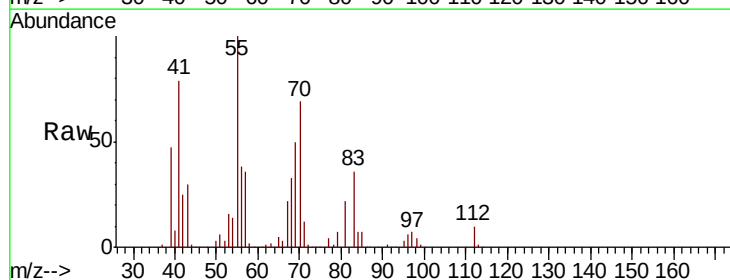
Tgt Ion: 83 Resp: 3907600

Ion Ratio Lower Upper

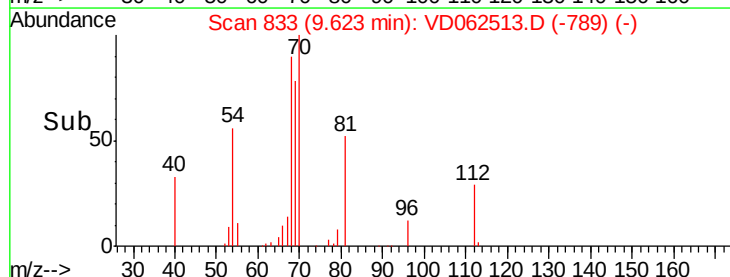
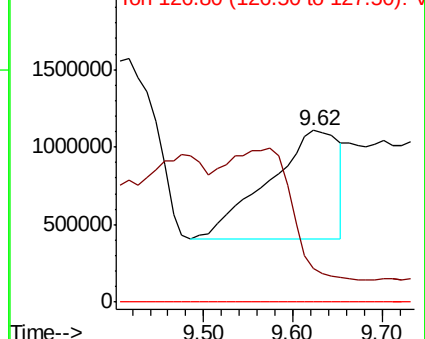
83 100

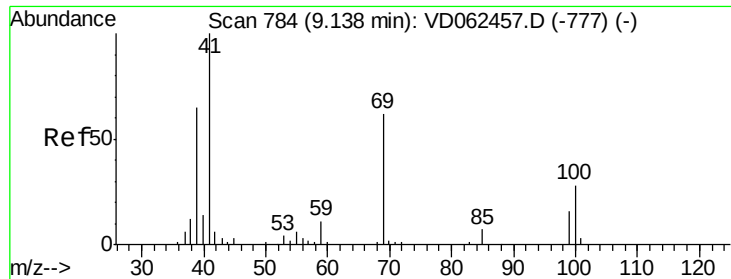
85 19.6 50.9 76.3#

127 0.0 8.1 12.1#



Abundance Ion 82.85 (82.55 to 83.55): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 126.80 (126.50 to 127.50): V

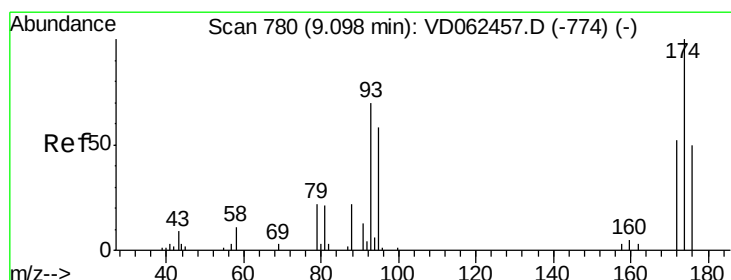
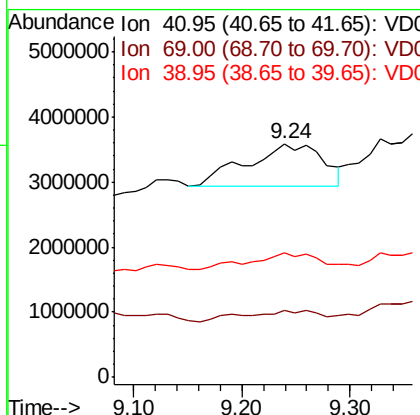
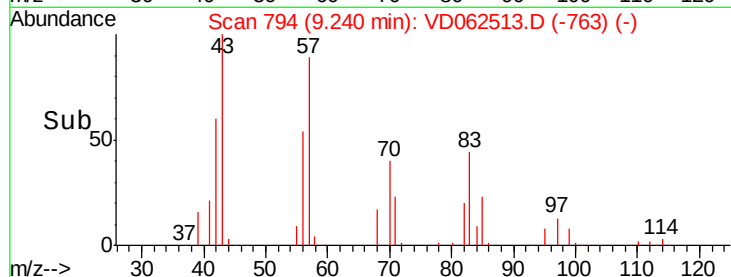
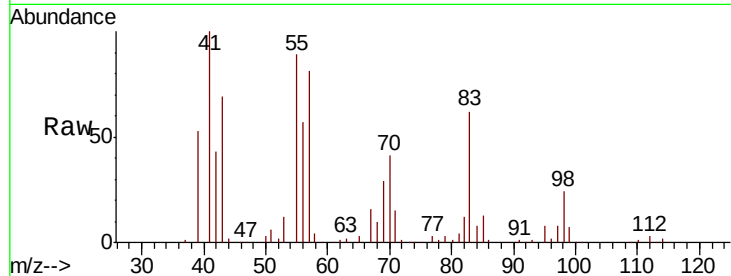




#48
Methyl methacrylate
Concen: 15068.983 ug/l
RT: 9.24 min Scan# 794
Delta R.T. 0.10 min
Lab File: VD062513.D
Acq: 22 May 2019 19:56

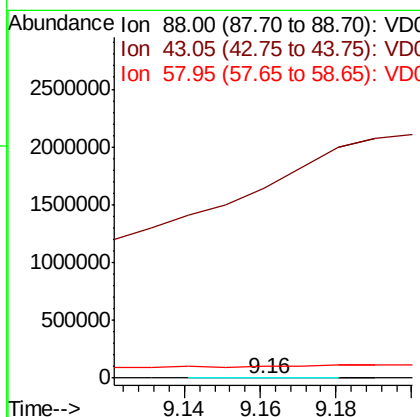
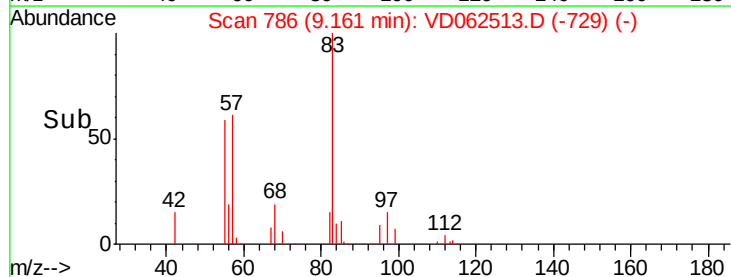
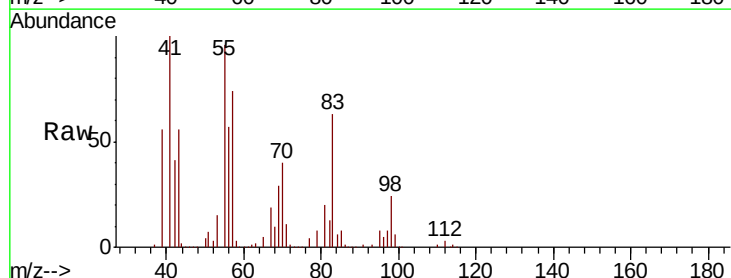
Instrument :
MSVOA_D
ClientSampled :

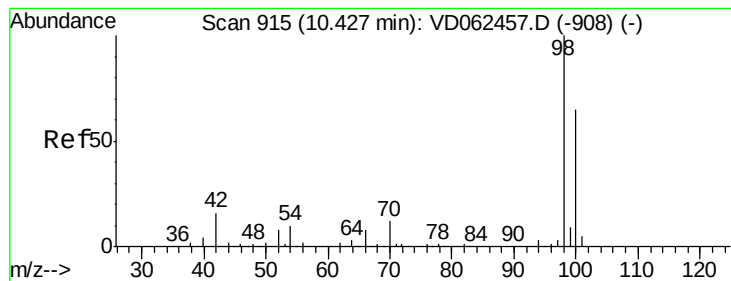
Tot Ion: 41 Resp: 3217071
Ion Ratio Lower Upper
41 100
69 28.9 64.2 96.2#
39 53.1 46.8 70.2



#49
1,4-Dioxane
Concen: 102.876 ug/l
RT: 9.16 min Scan# 786
Delta R.T. 0.06 min
Lab File: VD062513.D
Acq: 22 May 2019 19:56

Tgt Ion: 88 Resp: 197
Ion Ratio Lower Upper
88 100
43 492685.0 23.4 35.0#
58 29377.2 44.0 66.0#





#50

Toluene-d8

Concen: 80.535 ug/l

RT: 10.56 min Scan# 928

Delta R.T. 0.13 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

Instrument :

MSVOA_D

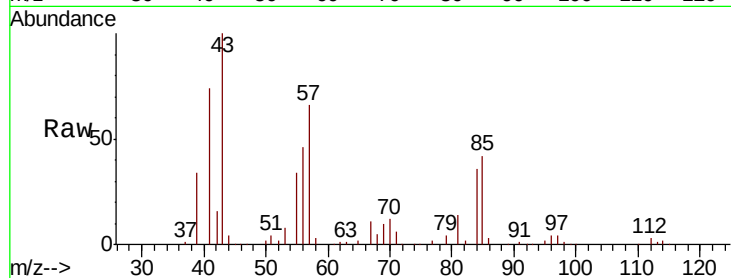
ClientSampled :

Tot Ion: 98 Resp: 102369

Ion Ratio Lower Upper

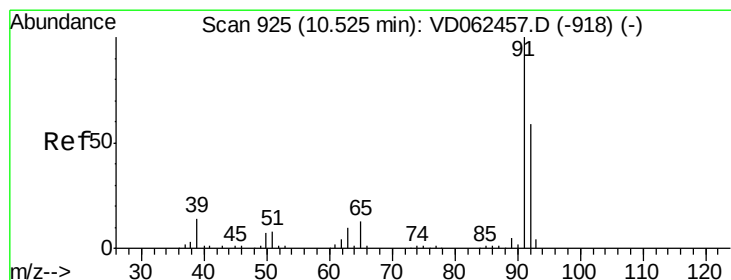
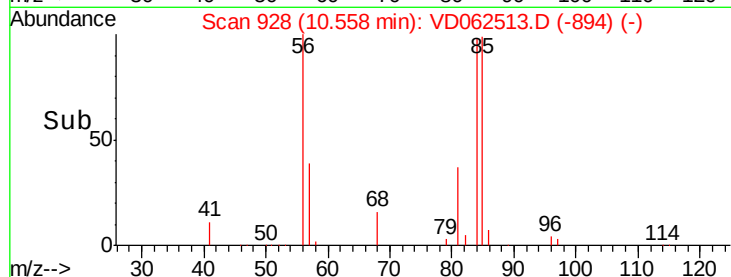
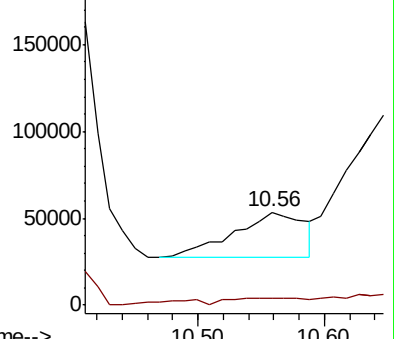
98 100

100 7.4 53.8 80.8#



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC



#52

Toluene

Concen: 22.234 ug/l

RT: 10.63 min Scan# 935

Delta R.T. 0.10 min

Lab File: VD062513.D

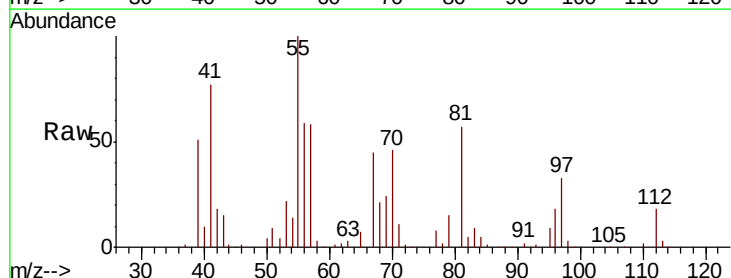
Acq: 22 May 2019 19:56

Tgt Ion: 92 Resp: 18379

Ion Ratio Lower Upper

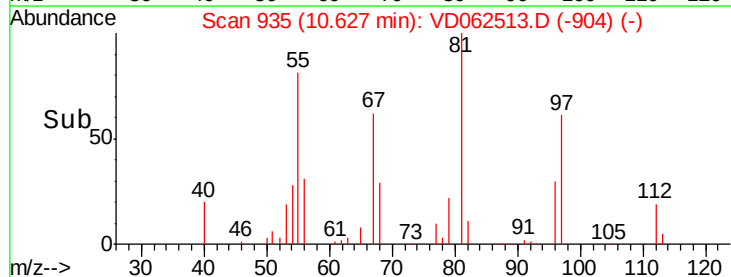
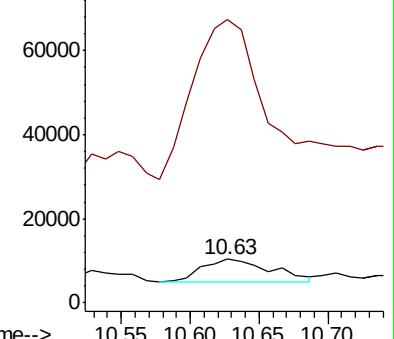
92 100

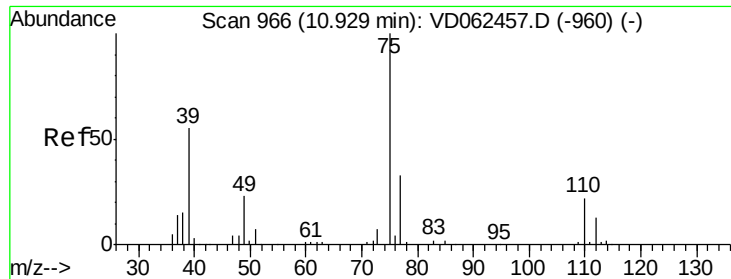
91 649.9 136.6 204.8#



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

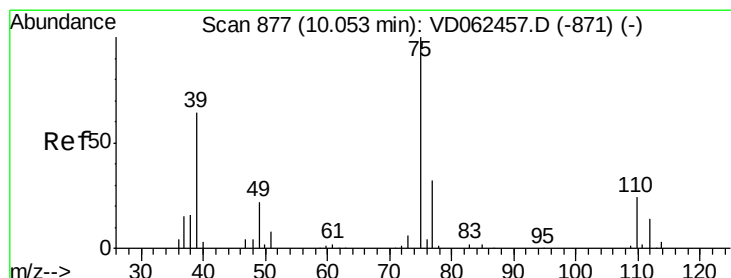
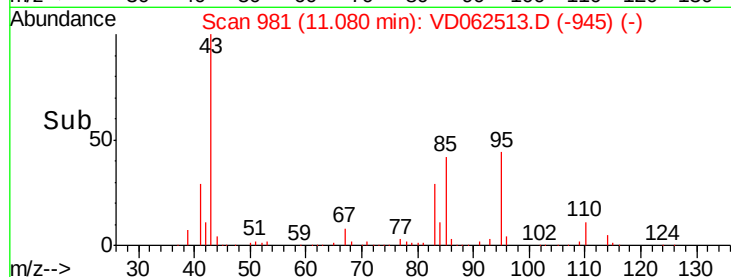
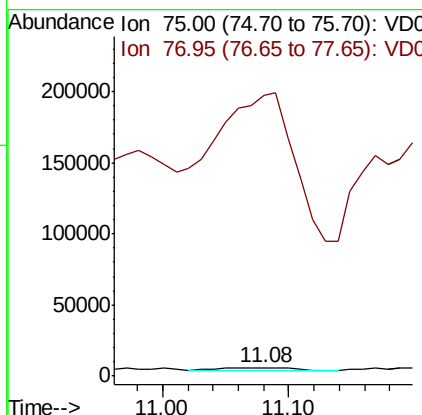
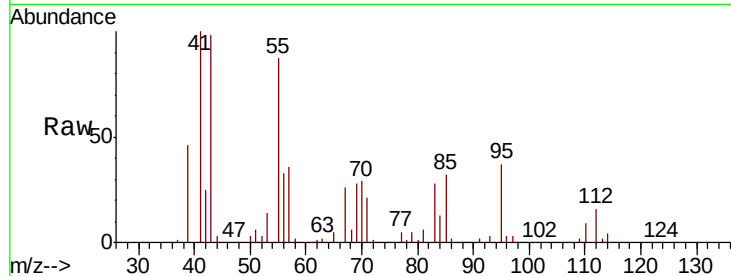




#53
 t-1,3-Dichloropropene
 Concen: 17.383 ug/l
 RT: 11.08 min Scan# 981
 Delta R.T. 0.15 min
 Lab File: VD062513.D
 Acq: 22 May 2019 19:56

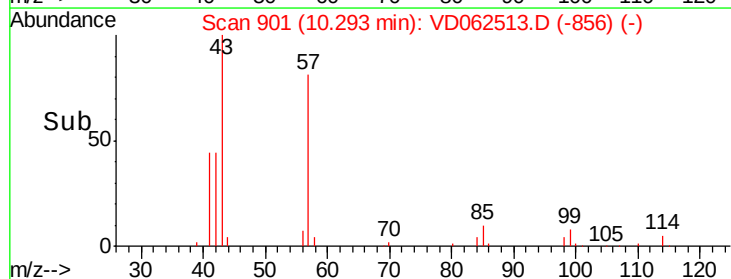
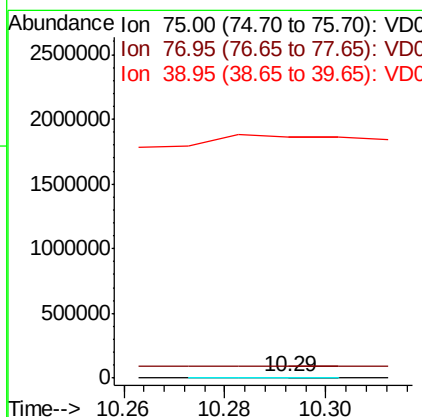
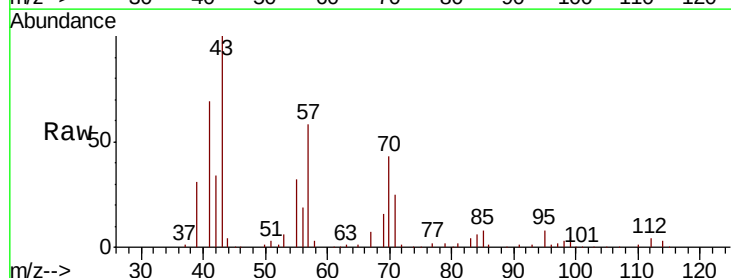
Instrument :
 MSVOA_D
 ClientSampled :

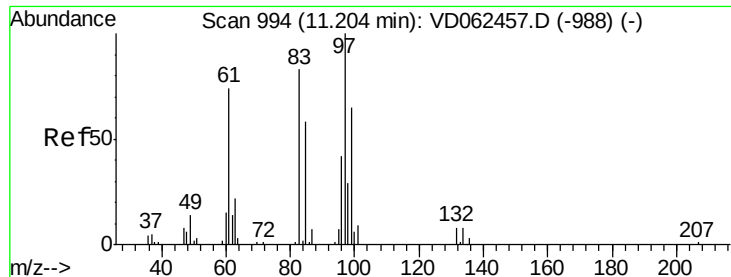
Tot Ion: 75 Resp: 9820
 Ion Ratio Lower Upper
 75 100
 77 3308.9 25.8 38.8#



#54
 cis-1,3-Dichloropropene
 Concen: 1.359 ug/l
 RT: 10.29 min Scan# 901
 Delta R.T. 0.24 min
 Lab File: VD062513.D
 Acq: 22 May 2019 19:56

Tgt Ion: 75 Resp: 801
 Ion Ratio Lower Upper
 75 100
 77 2515.8 25.5 38.3#
 39 50863.6 39.4 59.2#





#55

1,1,2-Trichloroethane

Concen: 14192.763 ug/l

RT: 11.27 min Scan# 1000

Delta R.T. 0.06 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

Instrument :

MSVOA_D

ClientSampled :

Tot Ion: 97 Resp: 3976136

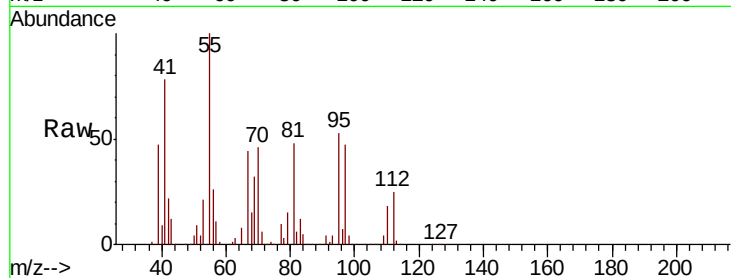
Ion Ratio Lower Upper

97 100

83 25.5 65.7 98.5#

85 0.8 45.6 68.4#

99 0.7 48.4 72.6#

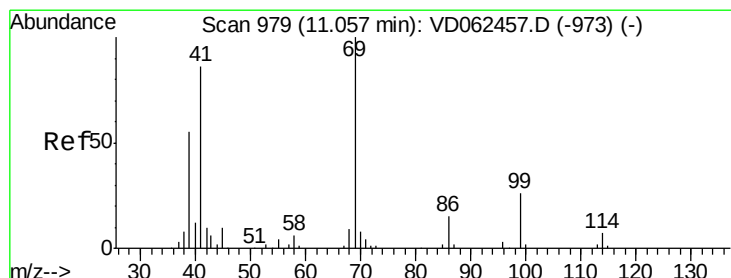
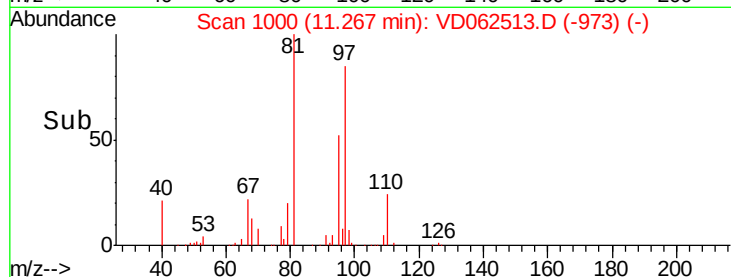
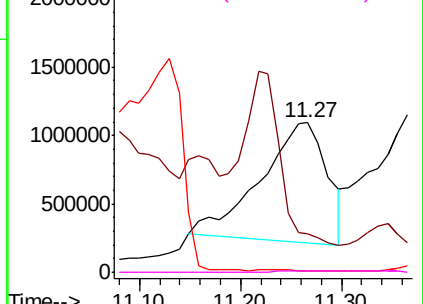


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#56

Ethyl methacrylate

Concen: 37101.348 ug/l

RT: 11.19 min Scan# 992

Delta R.T. 0.13 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

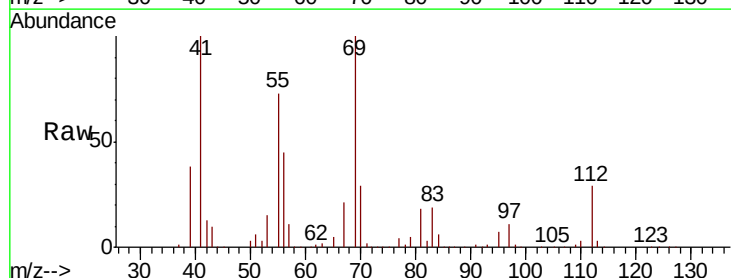
Tgt Ion: 69 Resp: 11111516

Ion Ratio Lower Upper

69 100

41 99.7 56.3 84.5#

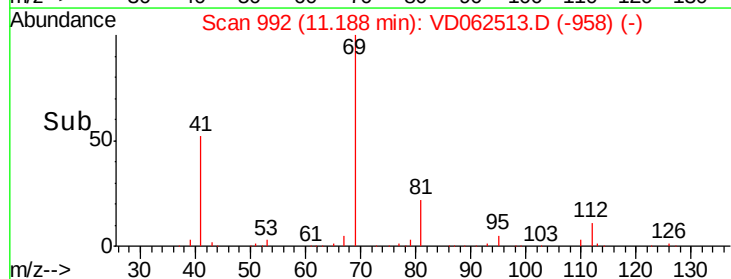
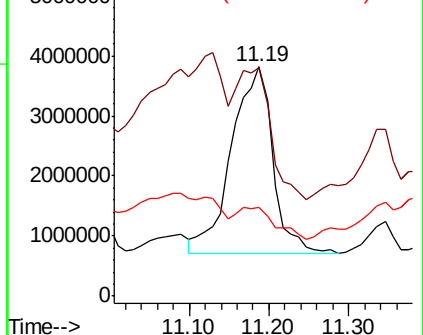
39 38.5 29.4 44.2

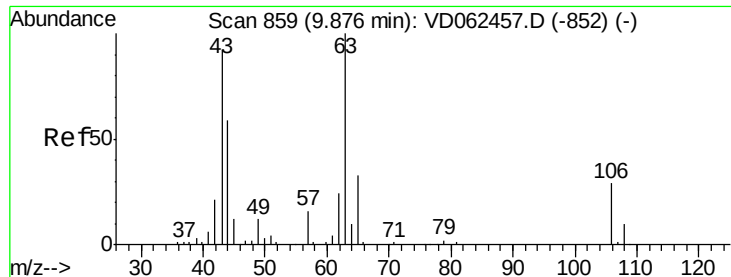


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

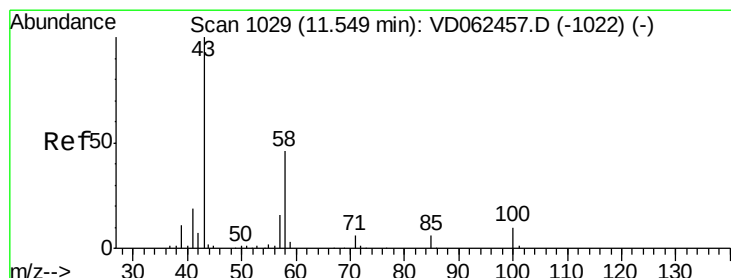
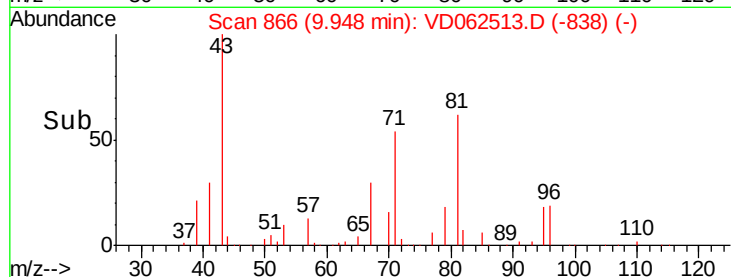
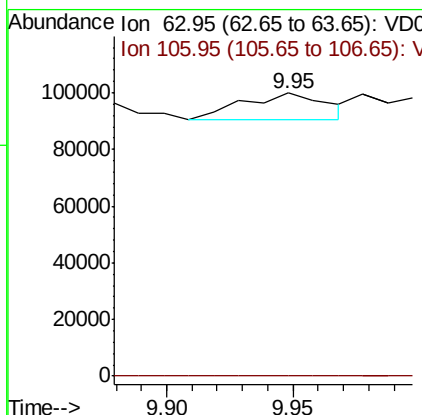
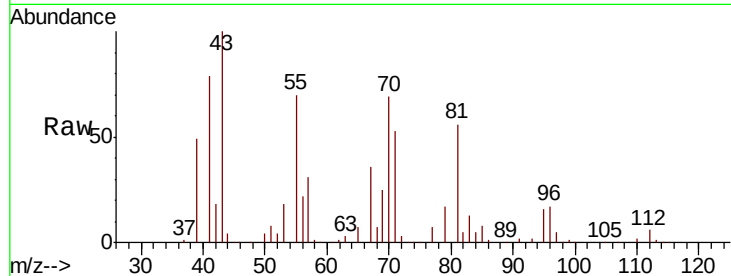




#58
 2-Chloroethyl Vinyl ether
 Concen: 144.038 ug/l
 RT: 9.95 min Scan# 866
 Delta R.T. 0.07 min
 Lab File: VD062513.D
 Acq: 22 May 2019 19:56

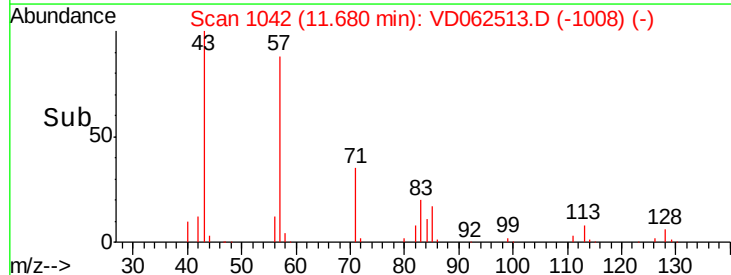
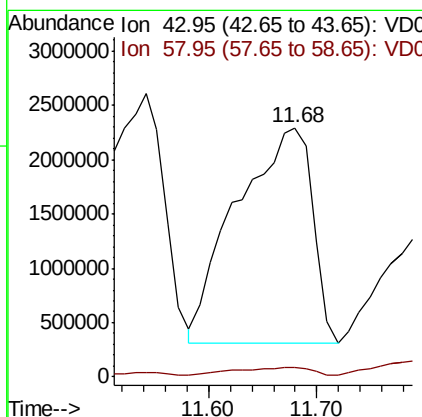
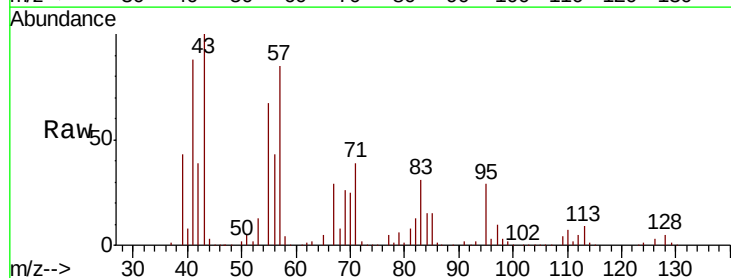
Instrument :
 MSVOA_D
 ClientSampled :

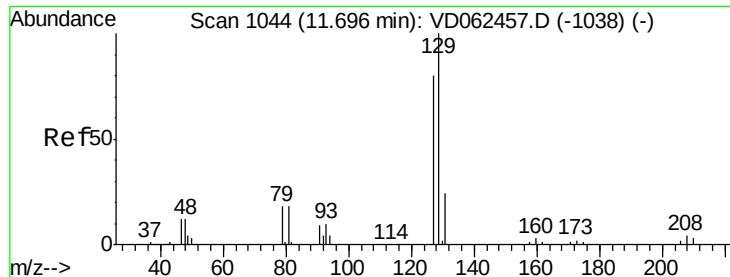
Tot Ion: 63 Resp: 22151
 Ion Ratio Lower Upper
 63 100
 106 0.0 22.6 34.0#



#59
 2-Hexanone
 Concen: 63286.551 ug/l
 RT: 11.68 min Scan# 1042
 Delta R.T. 0.13 min
 Lab File: VD062513.D
 Acq: 22 May 2019 19:56

Tgt Ion: 43 Resp: 9639649
 Ion Ratio Lower Upper
 43 100
 58 3.7 25.4 76.4#





#60

Dibromochloromethane

Concen: 60.367 ug/l

RT: 11.83 min Scan# 1057

Delta R.T. 0.13 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

Instrument :

MSVOA_D

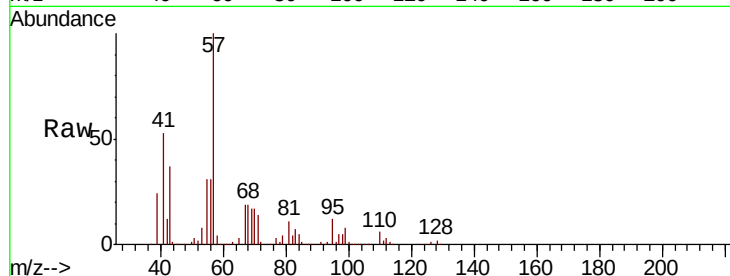
ClientSampleId :

Tot Ion:129 Resp: 32483

Ion Ratio Lower Upper

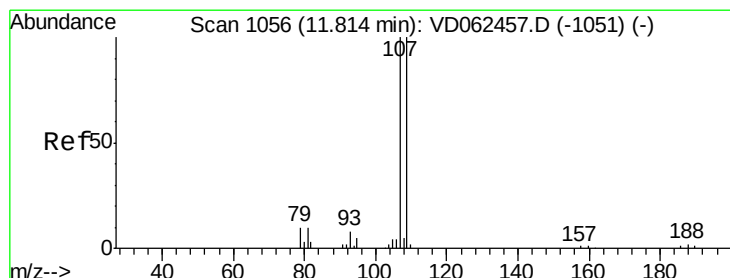
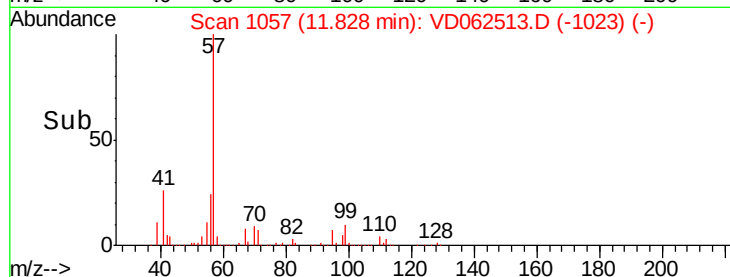
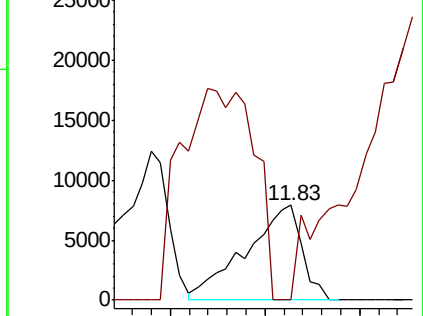
129 100

127 0.0 38.0 113.9#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#61

1,2-Dibromoethane

Concen: 261.009 ug/l

RT: 11.98 min Scan# 1072

Delta R.T. 0.16 min

Lab File: VD062513.D

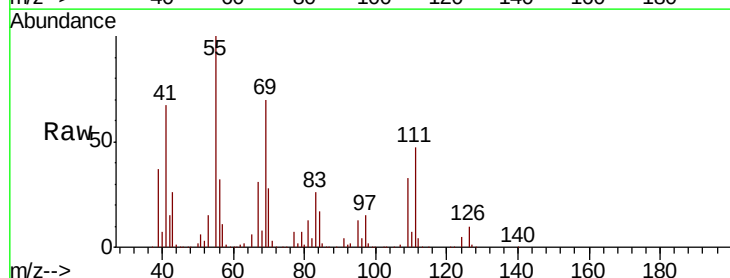
Acq: 22 May 2019 19:56

Tgt Ion:107 Resp: 90114

Ion Ratio Lower Upper

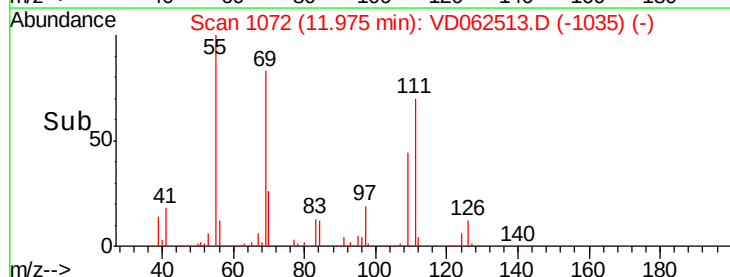
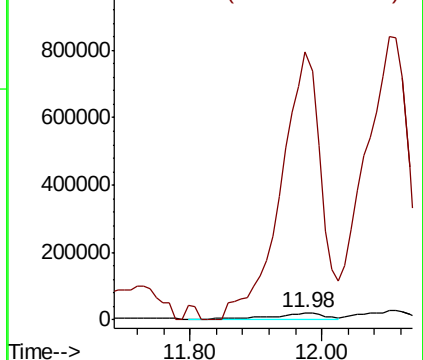
107 100

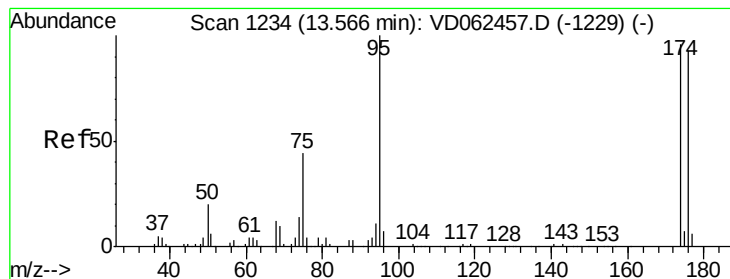
109 3828.4 78.3 117.5#



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V





#62

4-Bromofluorobenzene

Concen: 117.411 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. 0.13 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

Instrument :

MSVOA_D

ClientSampleId :

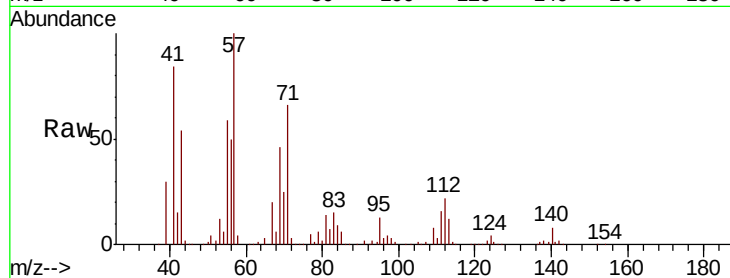
Tot Ion: 95 Resp: 65284

Ion Ratio Lower Upper

95 100

174 0.0 0.0 181.8

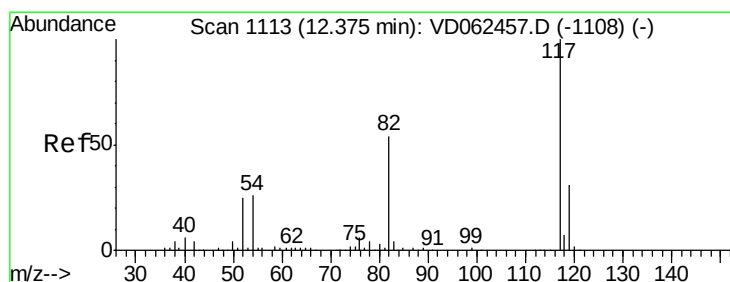
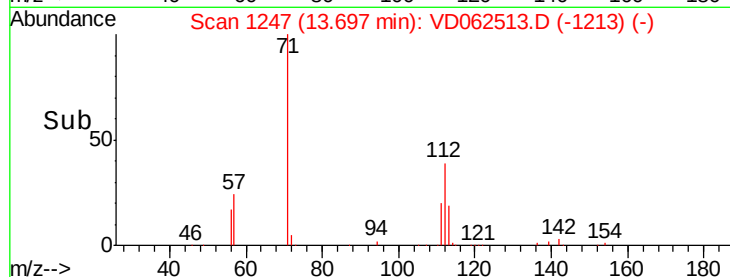
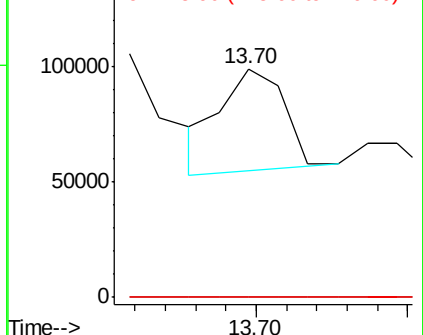
176 0.0 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.48 min Scan# 1123

Delta R.T. 0.10 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

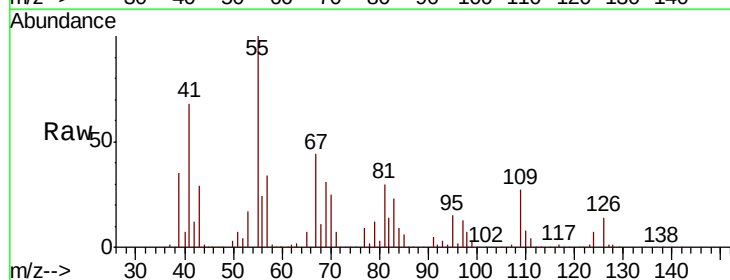
Tgt Ion: 117 Resp: 89783

Ion Ratio Lower Upper

117 100

82 995.2 36.2 54.2#

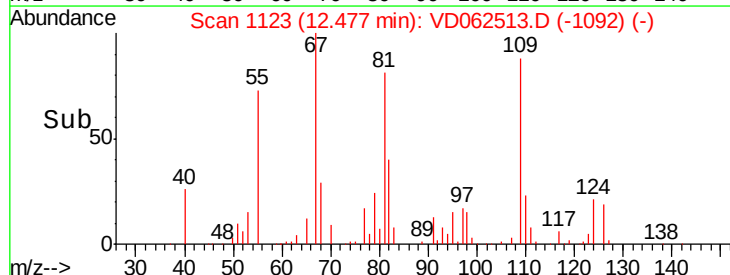
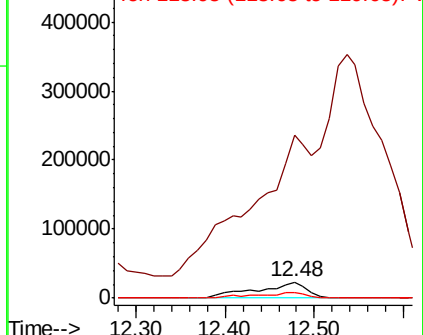
119 30.6 26.2 39.4

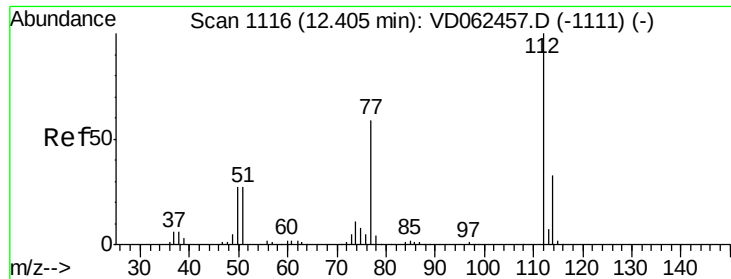


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

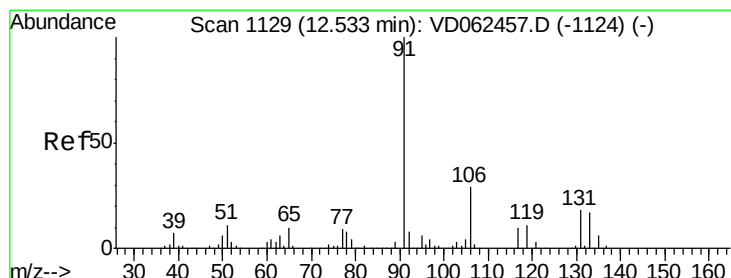
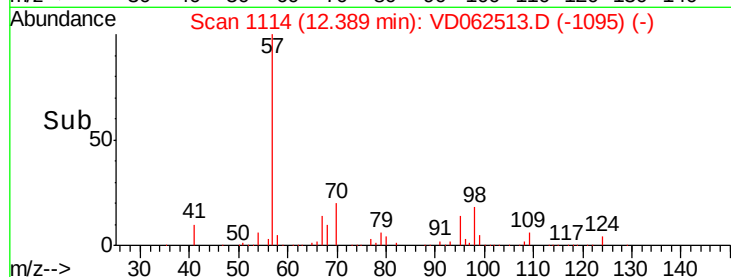
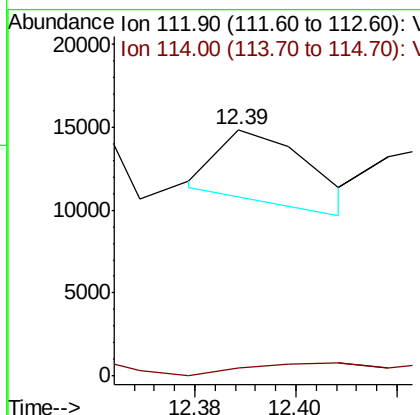
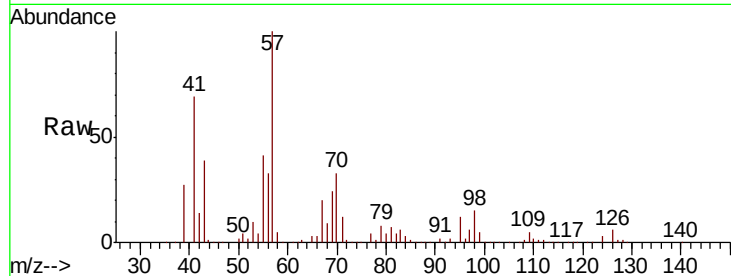




#65
Chlorobenzene
Concen: 2.906 ug/l
RT: 12.39 min Scan# 1114
Delta R.T. -0.02 min
Lab File: VD062513.D
Acq: 22 May 2019 19:56

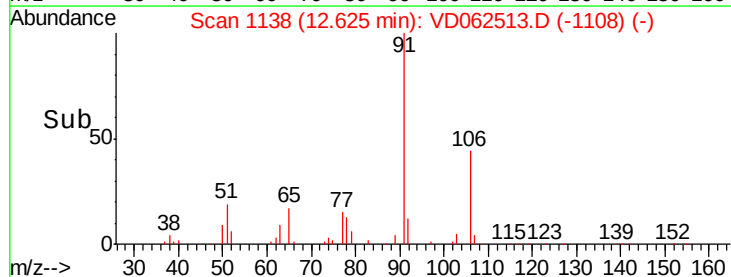
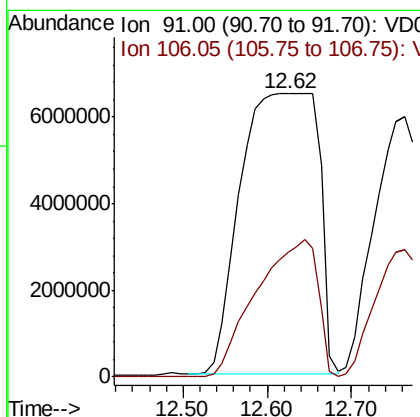
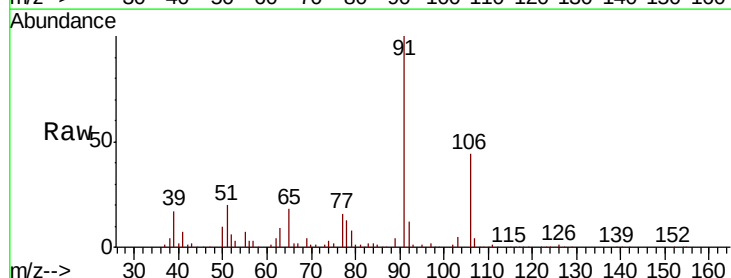
Instrument :
MSVOA_D
ClientSampleId :

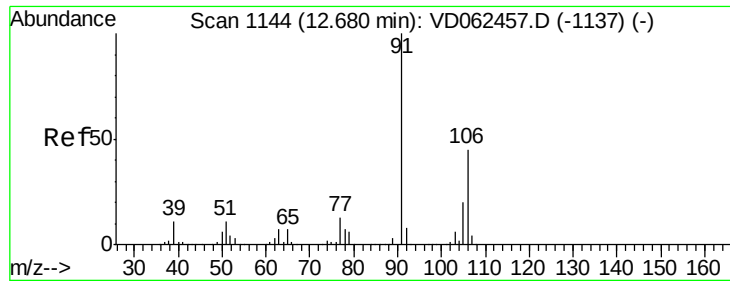
Tot Ion:112 Resp: 5018
Ion Ratio Lower Upper
112 100
114 3.1 25.8 38.8#



#67
Ethyl Benzene
Concen: 13917.810 ug/l
RT: 12.62 min Scan# 1138
Delta R.T. 0.09 min
Lab File: VD062513.D
Acq: 22 May 2019 19:56

Tgt Ion: 91 Resp:41390165
Ion Ratio Lower Upper
91 100
106 44.0 24.7 37.1#

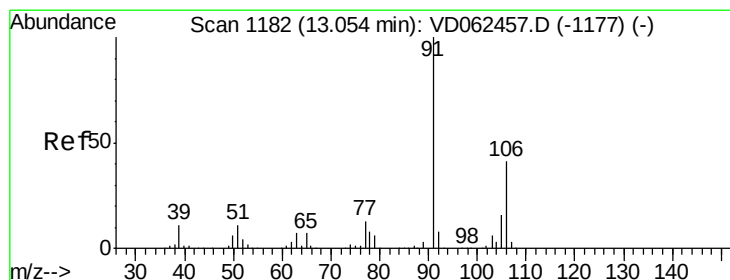
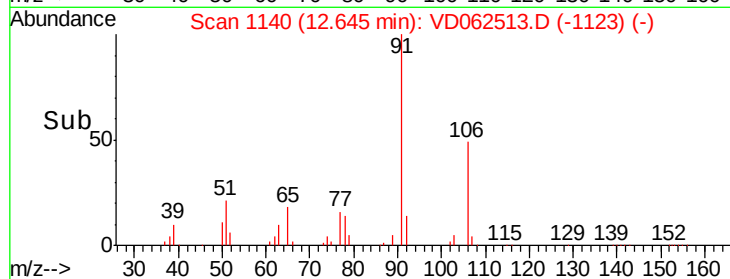
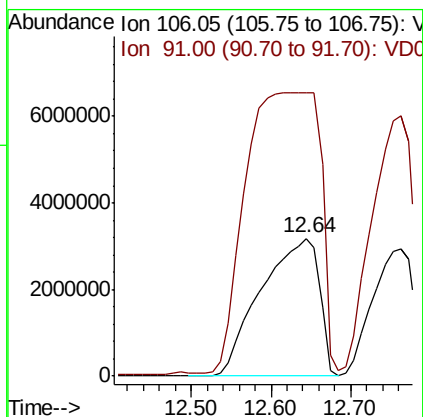
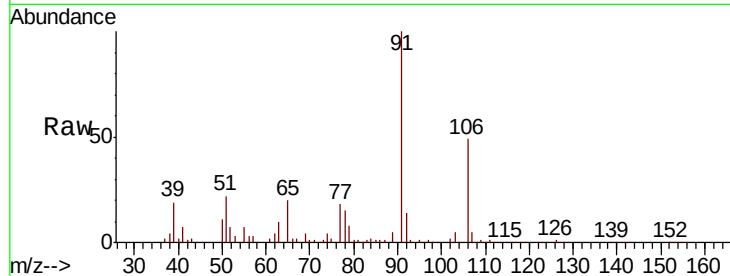




#68
m/p-Xylenes
Concen: 15078.244 ug/l
RT: 12.64 min Scan# 1140
Delta R.T. -0.04 min
Lab File: VD062513.D
Acq: 22 May 2019 19:56

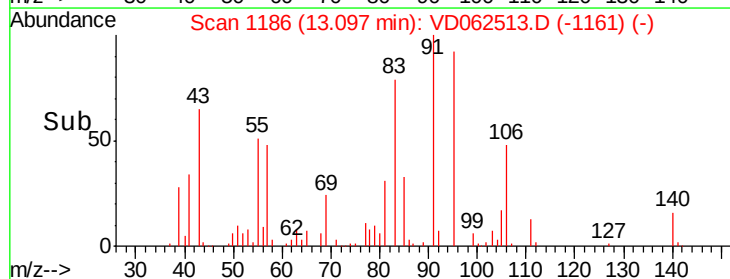
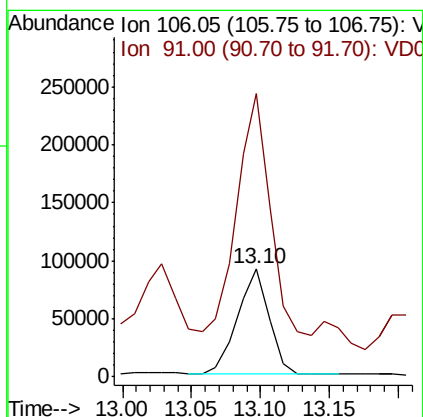
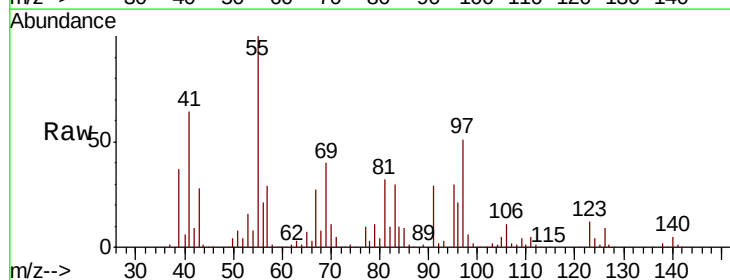
Instrument :
MSVOA_D
ClientSampleId :

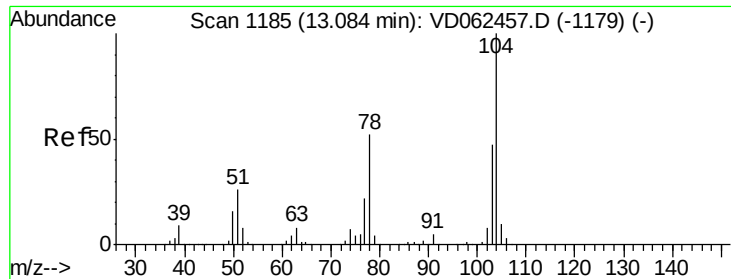
Tot Ion:106 Resp:16096224
Ion Ratio Lower Upper
106 100
91 205.1 164.0 246.0



#69
o-Xylene
Concen: 144.823 ug/l
RT: 13.10 min Scan# 1186
Delta R.T. 0.04 min
Lab File: VD062513.D
Acq: 22 May 2019 19:56

Tgt Ion:106 Resp: 145870
Ion Ratio Lower Upper
106 100
91 260.6 106.7 319.9

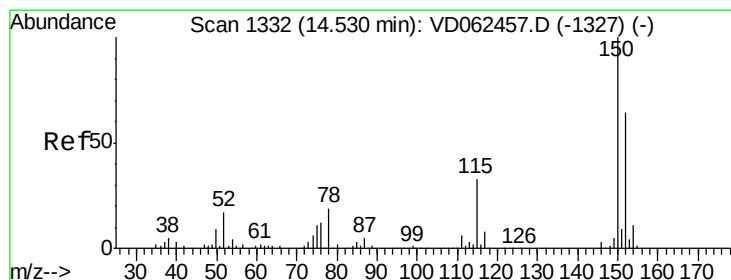
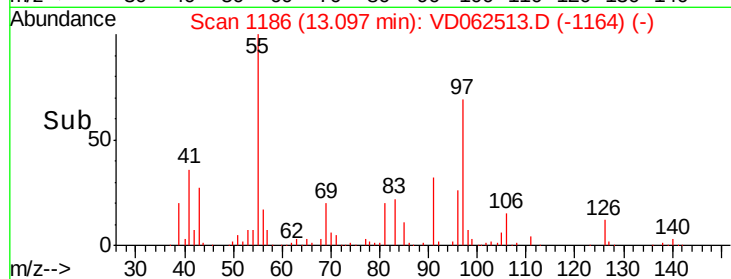
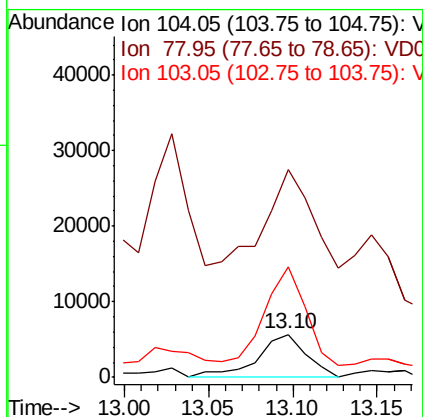
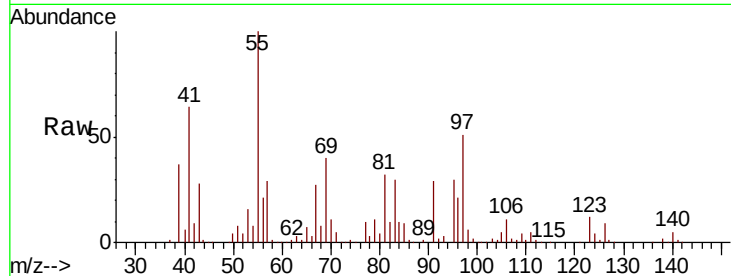




#70
Stvrene
Concen: 6.684 ug/l
RT: 13.10 min Scan# 1186
Delta R.T. 0.01 min
Lab File: VD062513.D
Acq: 22 May 2019 19:56

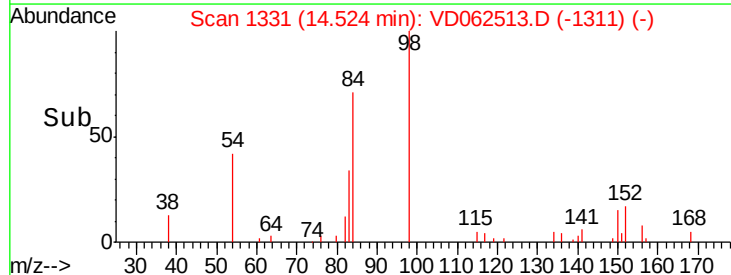
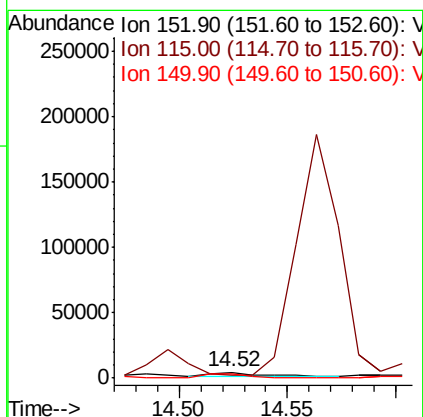
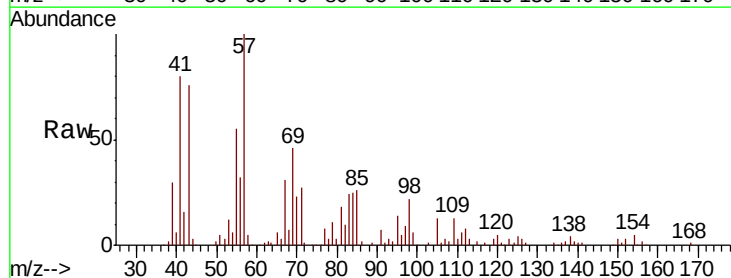
Instrument :
MSVOA_D
ClientSampleId :

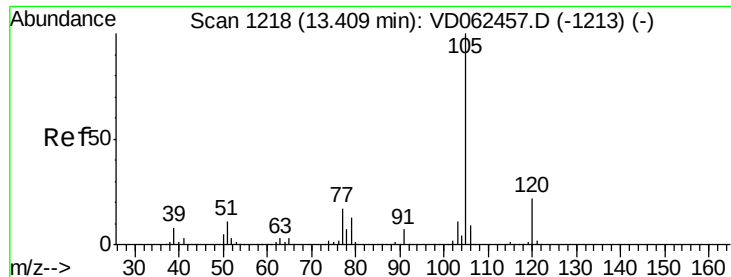
Tot Ion:104 Resp: 11452
Ion Ratio Lower Upper
104 100
78 482.9 35.4 53.2#
103 256.5 37.5 56.3#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1331
Delta R.T. -0.01 min
Lab File: VD062513.D
Acq: 22 May 2019 19:56

Tgt Ion:152 Resp: 5508
Ion Ratio Lower Upper
152 100
115 56.2 30.9 92.7
150 85.9 0.0 314.8





#73

Isopropylbenzene

Concen: 39217.039 ug/l

RT: 13.44 min Scan# 1221

Delta R.T. 0.03 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

Instrument :

MSVOA_D

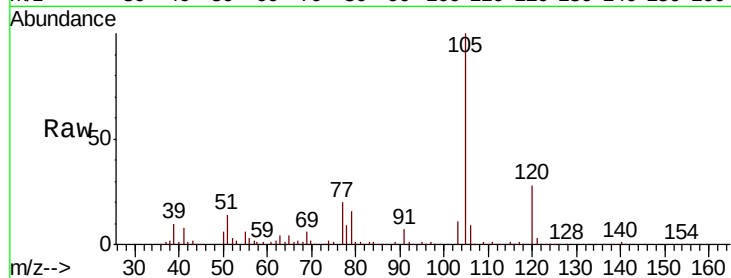
ClientSampleId :

Tot Ion:105 Resp:13615767

Ion Ratio Lower Upper

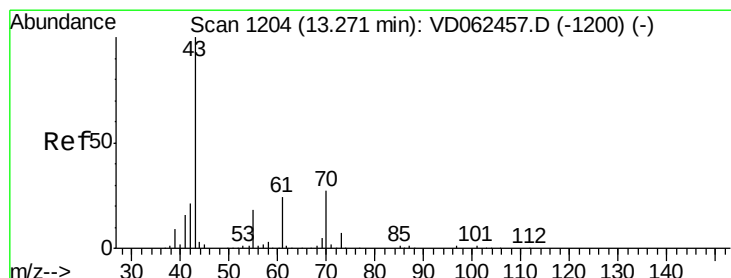
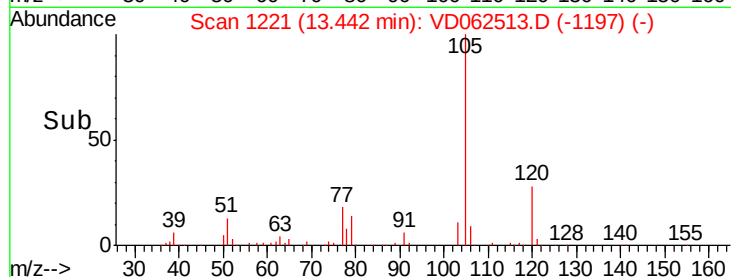
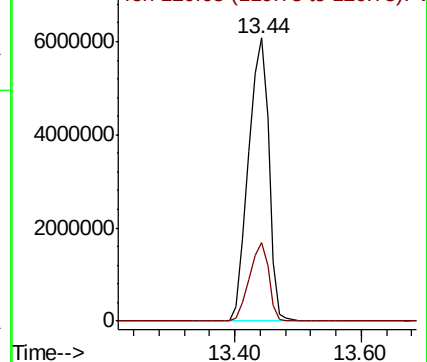
105 100

120 27.9 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-ethyl acetate

Concen: 15132.796 ug/l

RT: 13.25 min Scan# 1202

Delta R.T. -0.02 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

Tgt Ion: 43 Resp: 1297638

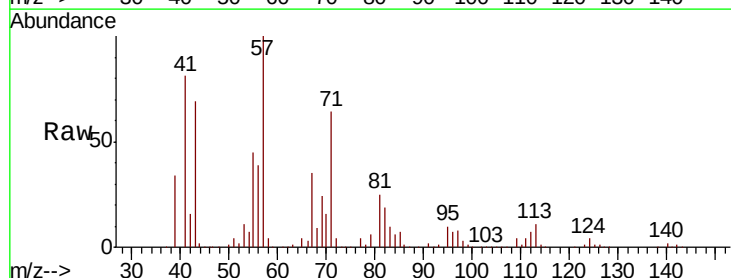
Ion Ratio Lower Upper

43 100

70 23.4 24.2 36.4#

55 65.3 16.0 24.0#

61 0.1 21.6 32.4#

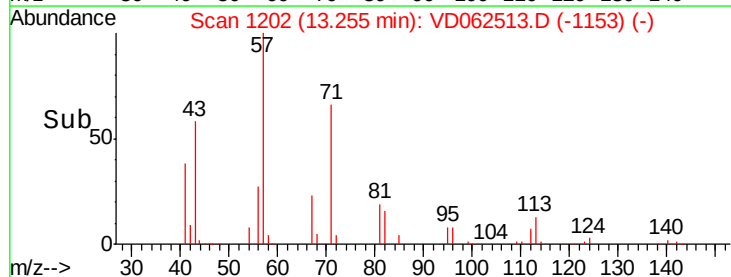
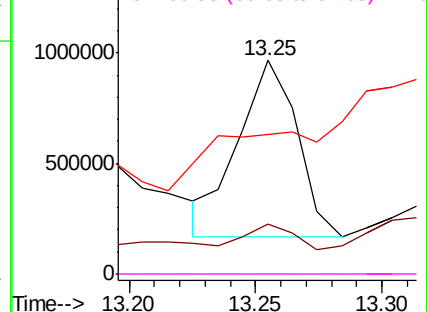


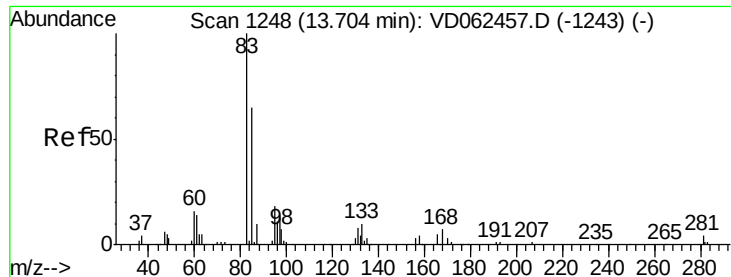
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 2051.163 ug/l

RT: 13.69 min Scan# 1246

Delta R.T. -0.02 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

Instrument :

MSVOA_D

ClientSampled :

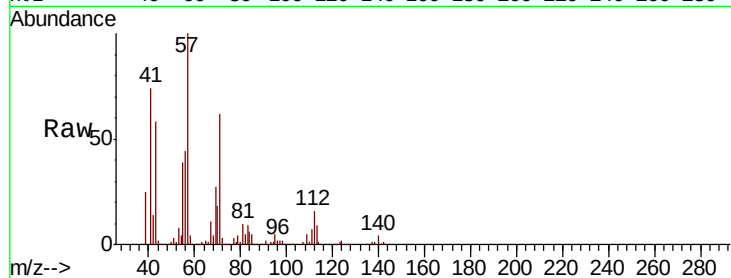
Tot Ion: 83 Resp: 128476

Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

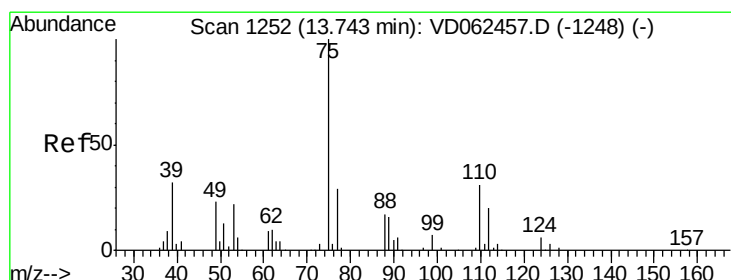
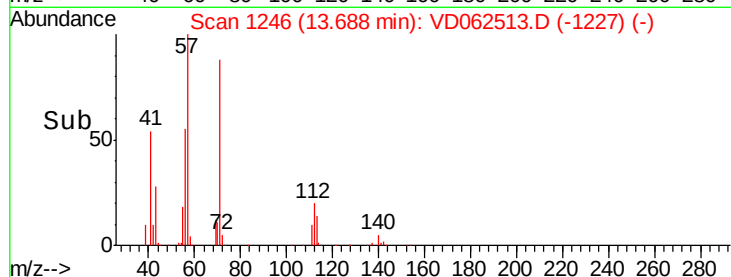
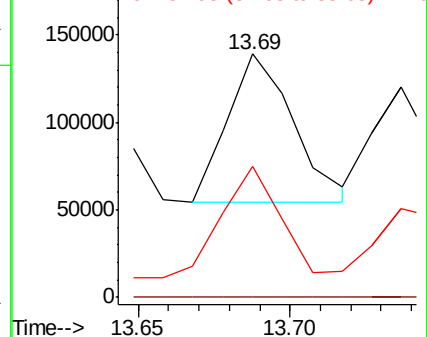
85 53.6 32.6 97.7



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 1642.611 ug/l

RT: 13.80 min Scan# 1257

Delta R.T. 0.05 min

Lab File: VD062513.D

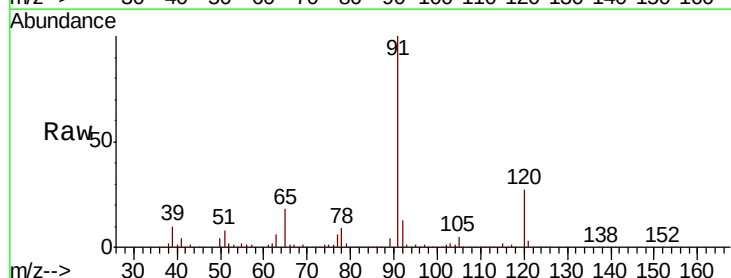
Acq: 22 May 2019 19:56

Tgt Ion: 75 Resp: 106569

Ion Ratio Lower Upper

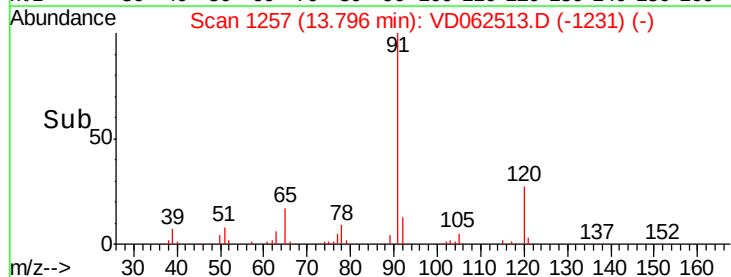
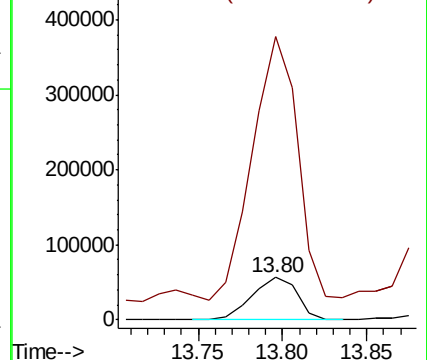
75 100

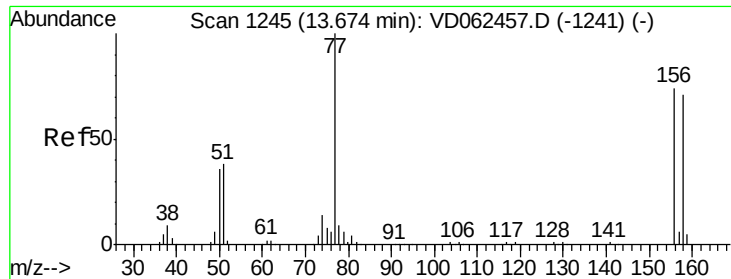
77 668.3 16.4 49.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 11.819 ug/l

RT: 13.74 min Scan# 1251

Delta R.T. 0.06 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

Instrument :

MSVOA_D

ClientSampleId :

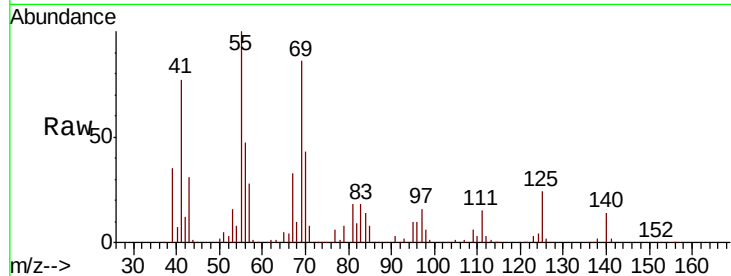
Tot Ion:156 Resp: 1164

Ion Ratio Lower Upper

156 100

77 4408.9 53.1 159.4#

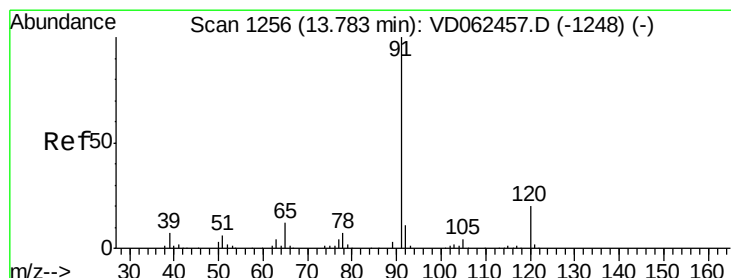
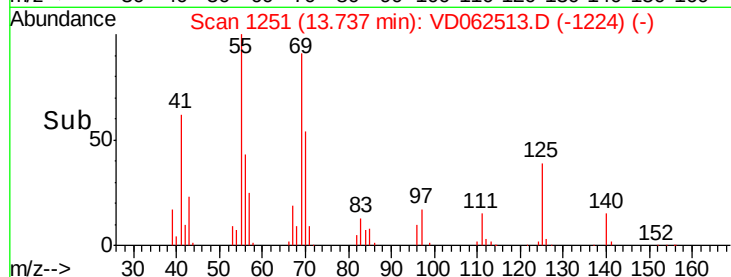
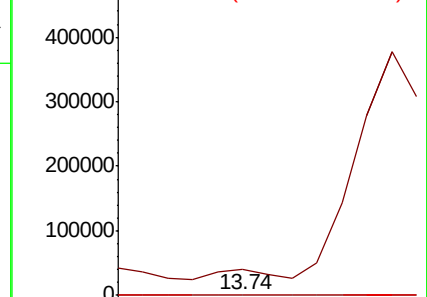
158 0.0 49.4 148.0#



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 33719.983 ug/l

RT: 13.80 min Scan# 1257

Delta R.T. 0.01 min

Lab File: VD062513.D

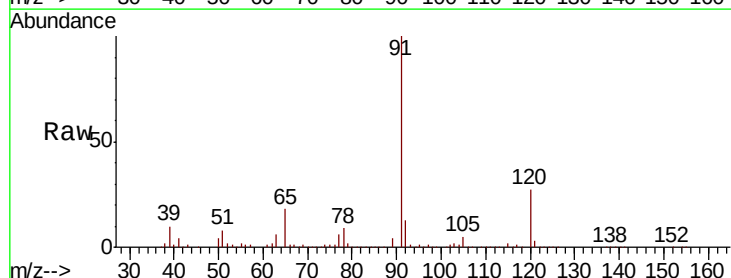
Acq: 22 May 2019 19:56

Tgt Ion: 91 Resp:13560892

Ion Ratio Lower Upper

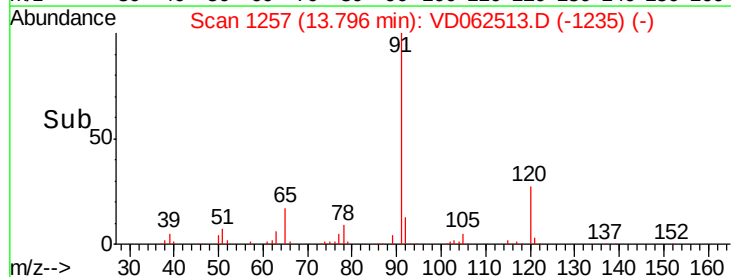
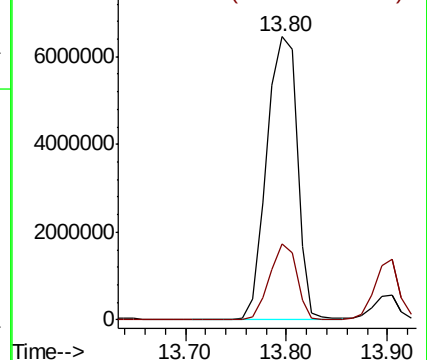
91 100

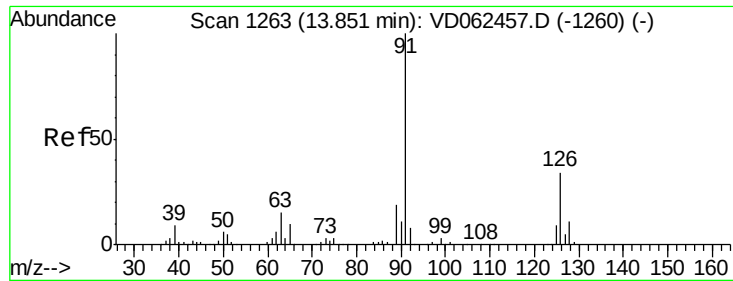
120 26.7 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 3945.142 ug/l

RT: 13.90 min Scan# 1268

Delta R.T. 0.05 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

Instrument :

MSVOA_D

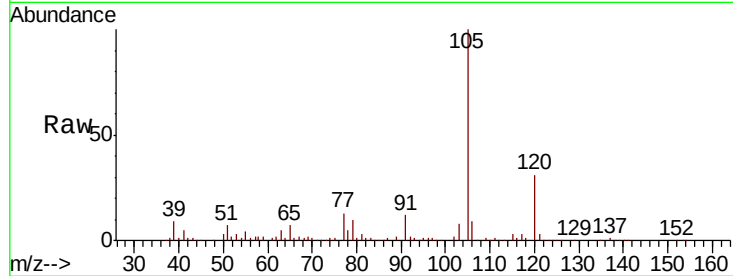
ClientSampled :

Tot Ion: 91 Resp: 962837

Ion Ratio Lower Upper

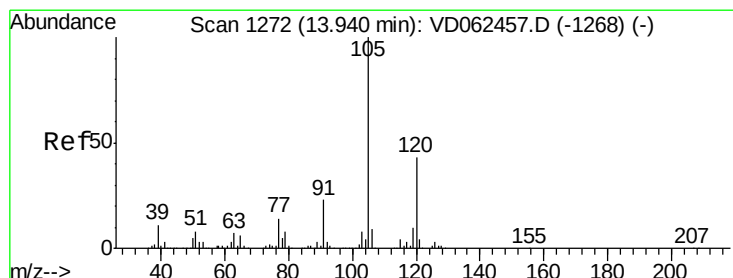
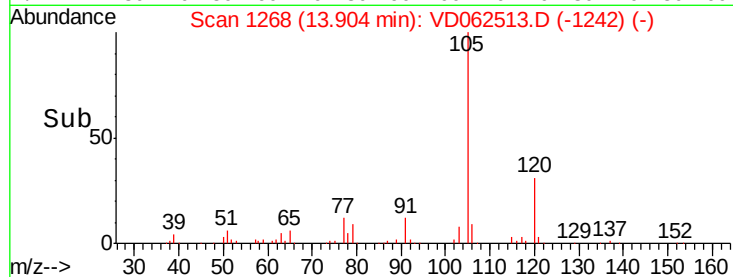
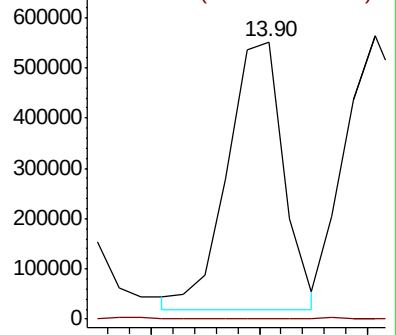
91 100

126 0.1 18.6 55.8#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 29680.972 ug/l

RT: 13.95 min Scan# 1273

Delta R.T. 0.01 min

Lab File: VD062513.D

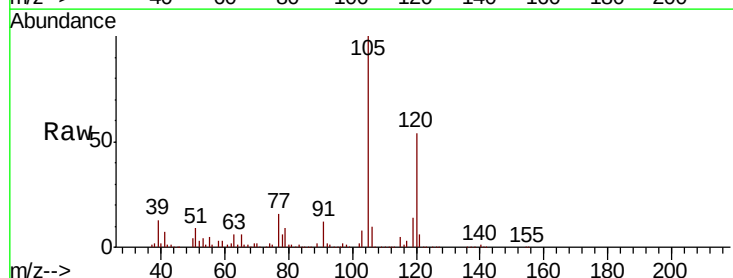
Acq: 22 May 2019 19:56

Tgt Ion: 105 Resp: 8922529

Ion Ratio Lower Upper

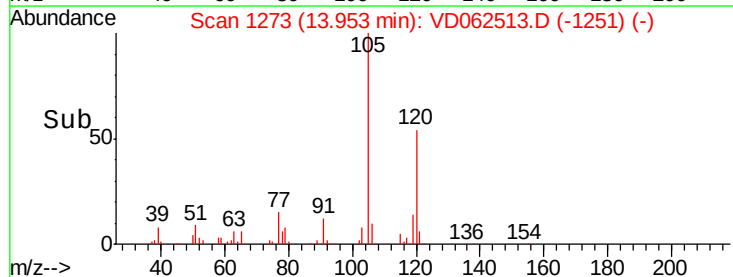
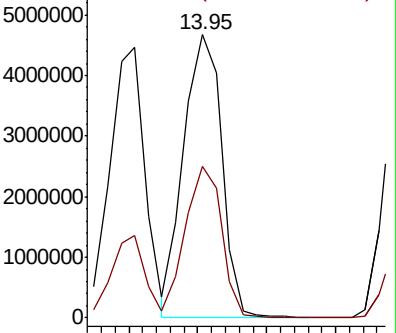
105 100

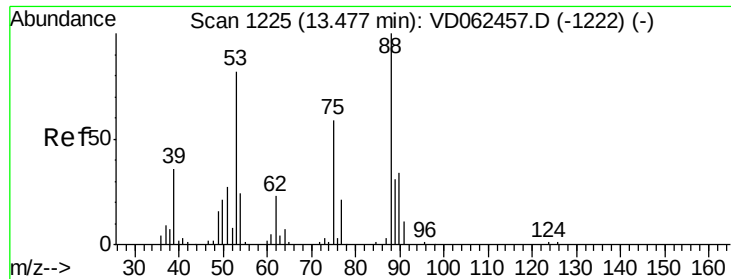
120 53.5 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

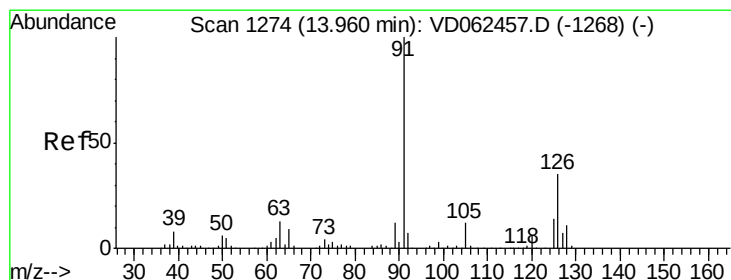
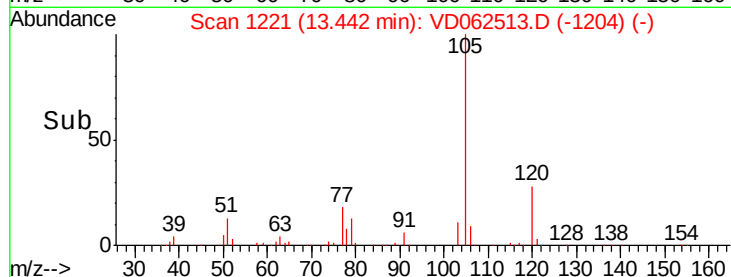
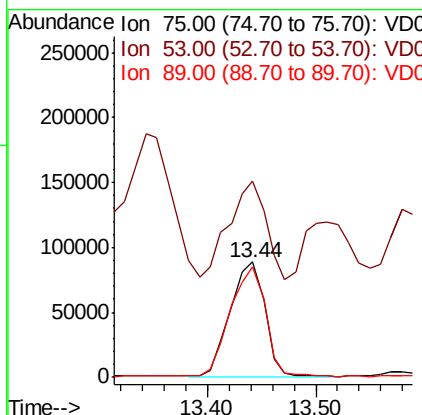
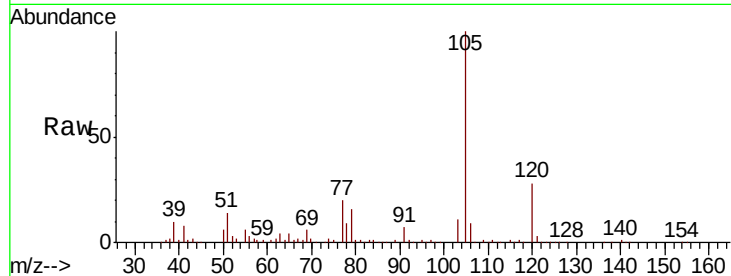




#81
 trans-1,4-Dichloro-2-butene
 Concen: 10690.376 ug/l
 RT: 13.44 min Scan# 1221
 Delta R.T. -0.04 min
 Lab File: VD062513.D
 Acq: 22 May 2019 19:56

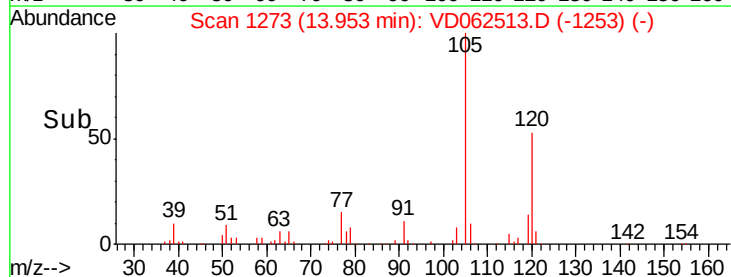
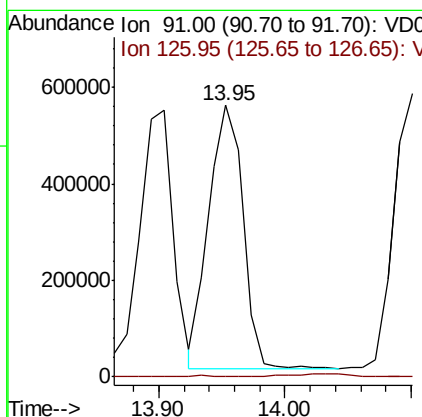
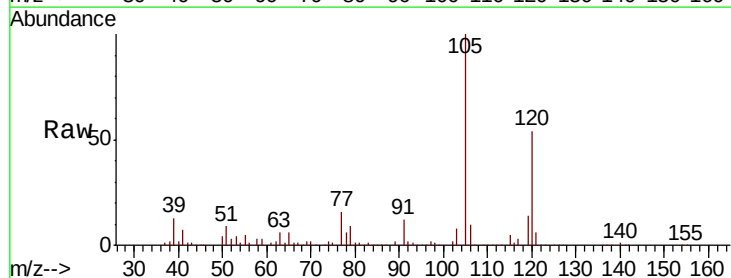
Instrument :
 MSVOA_D
 ClientSampled :

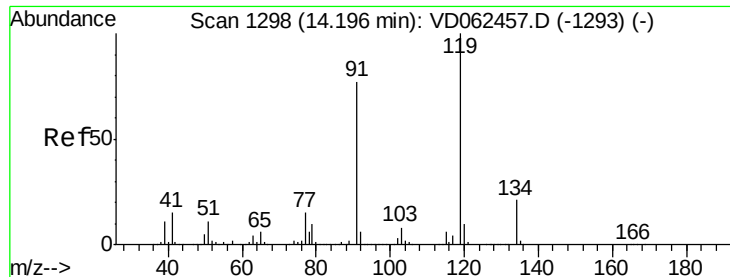
Tot Ion: 75 Resp: 195605
 Ion Ratio Lower Upper
 75 100
 53 170.0 65.8 98.8#
 89 95.1 35.0 52.6#



#82
 4-Chlorotoluene
 Concen: 3657.398 ug/l
 RT: 13.95 min Scan# 1273
 Delta R.T. -0.01 min
 Lab File: VD062513.D
 Acq: 22 May 2019 19:56

Tgt Ion: 91 Resp: 1027977
 Ion Ratio Lower Upper
 91 100
 126 0.2 19.1 57.5#

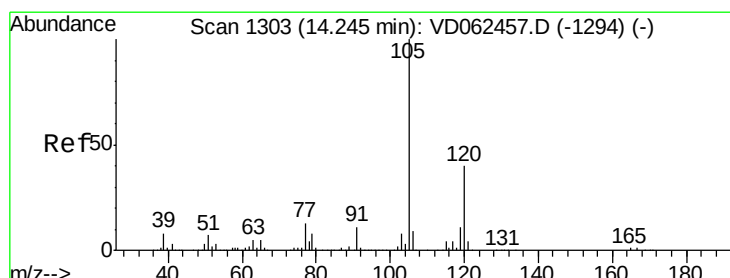
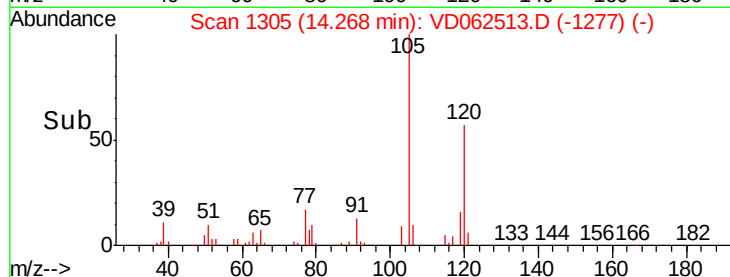
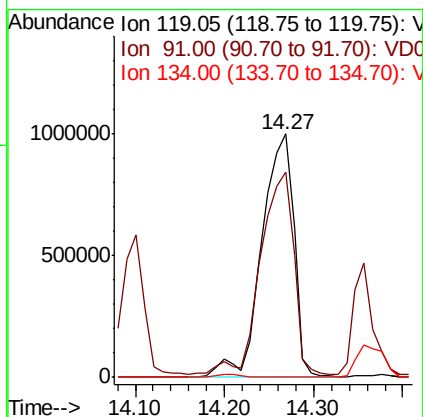
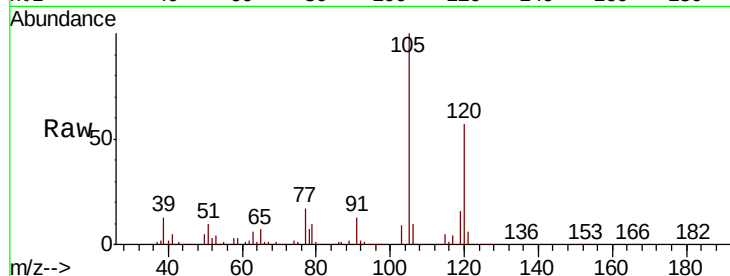




#83
 tert-Butylbenzene
 Concen: 7501.567 ug/l
 RT: 14.27 min Scan# 1305
 Delta R.T. 0.07 min
 Lab File: VD062513.D
 Acq: 22 May 2019 19:56

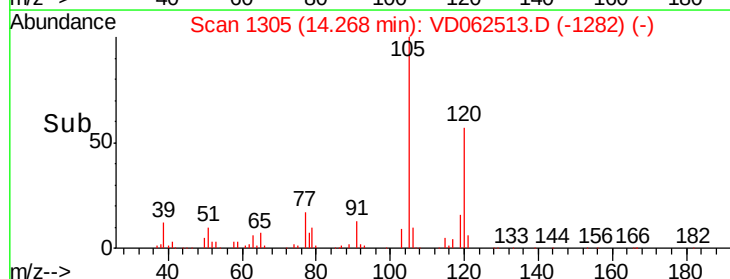
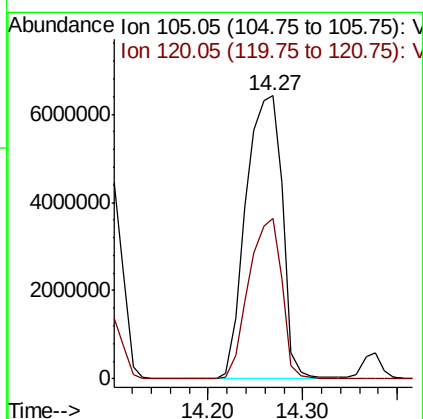
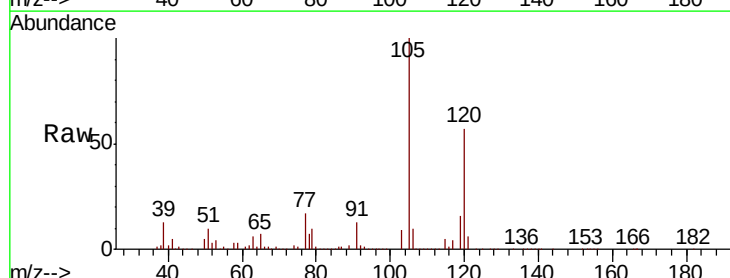
Instrument :
 MSVOA_D
 ClientSampleId :

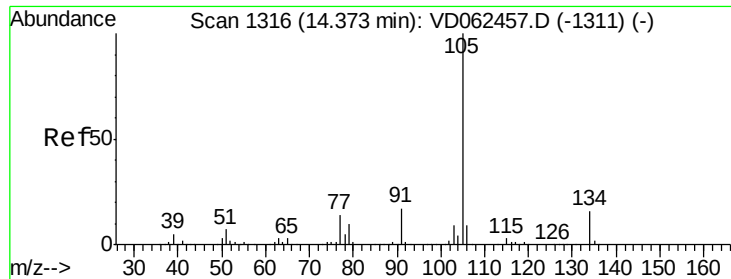
Tot Ion:119 Resp: 2501419
 Ion Ratio Lower Upper
 119 100
 91 84.2 34.2 102.6
 134 0.0 12.0 36.0#



#84
 1,2,4-Trimethylbenzene
 Concen: 55699.107 ug/l
 RT: 14.27 min Scan# 1305
 Delta R.T. 0.02 min
 Lab File: VD062513.D
 Acq: 22 May 2019 19:56

Tgt Ion:105 Resp:17157128
 Ion Ratio Lower Upper
 105 100
 120 56.8 23.1 69.2

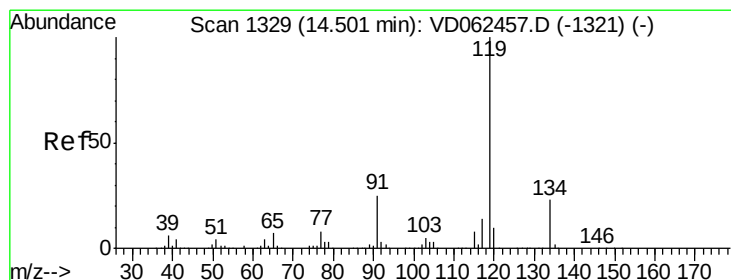
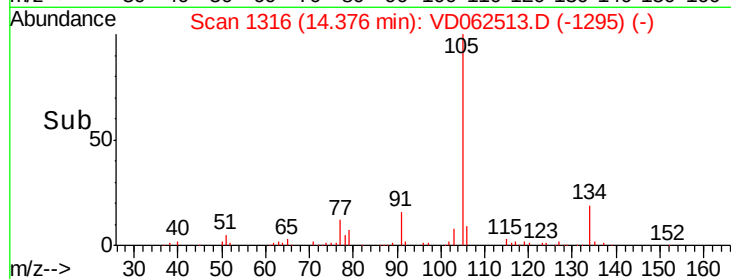
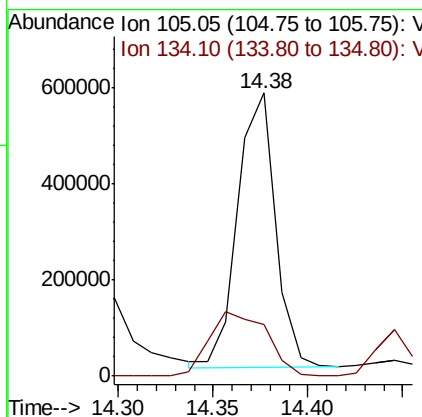
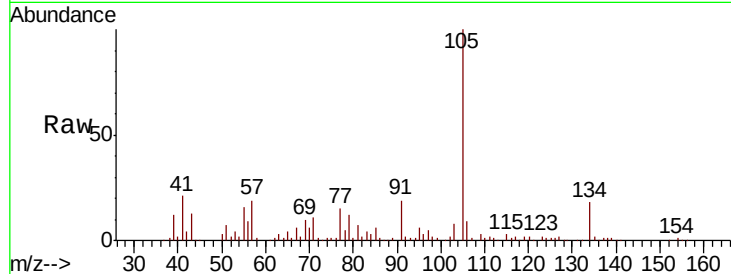




#85
 sec-Butylbenzene
 Concen: 2269.268 ug/l
 RT: 14.38 min Scan# 1316
 Delta R.T. 0.00 min
 Lab File: VD062513.D
 Acq: 22 May 2019 19:56

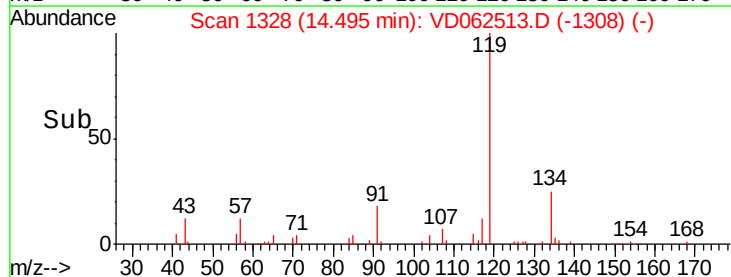
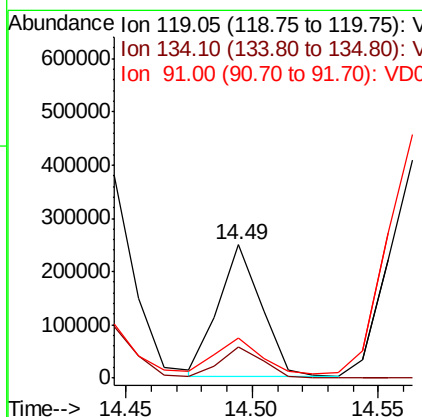
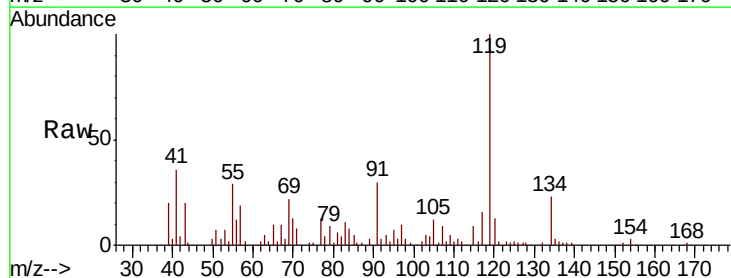
Instrument :
 MSVOA_D
 ClientSampleId :

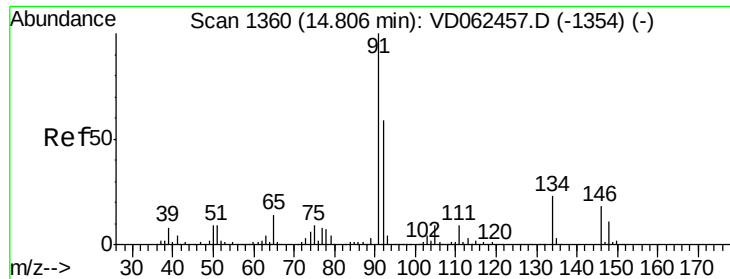
Tot Ion:105 Resp: 789015
 Ion Ratio Lower Upper
 105 100
 134 18.4 8.9 26.7



#86
 p-Isopropyltoluene
 Concen: 931.524 ug/l
 RT: 14.49 min Scan# 1328
 Delta R.T. -0.01 min
 Lab File: VD062513.D
 Acq: 22 May 2019 19:56

Tgt Ion:119 Resp: 293515
 Ion Ratio Lower Upper
 119 100
 134 22.9 12.8 38.3
 91 29.8 10.7 32.1





#89

n-Butylbenzene

Concen: 3671.373 ug/l

RT: 14.80 min Scan# 1359

Delta R.T. -0.01 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

Instrument :

MSVOA_D

ClientSampled :

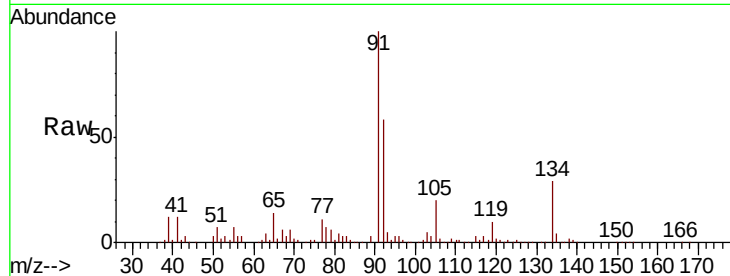
Tot Ion: 91 Resp: 1116426

Ion Ratio Lower Upper

91 100

92 58.0 30.3 91.0

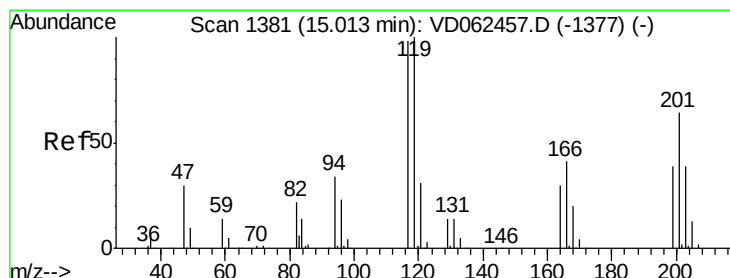
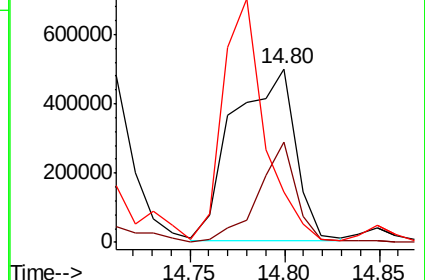
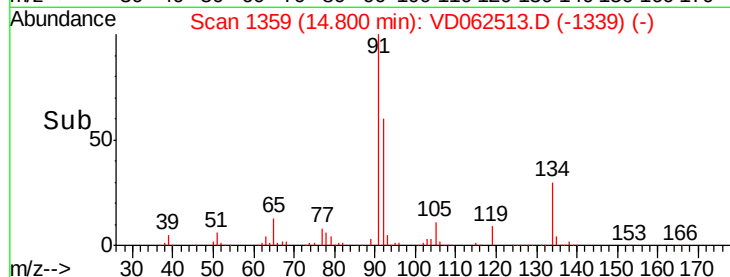
134 29.0 14.5 43.6



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.10 (133.80 to 134.80): V



#90

Hexachloroethane

Concen: 2327.608 ug/l

RT: 14.98 min Scan# 1377

Delta R.T. -0.04 min

Lab File: VD062513.D

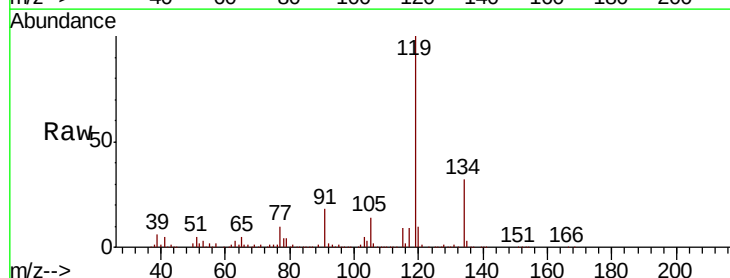
Acq: 22 May 2019 19:56

Tgt Ion: 117 Resp: 202690

Ion Ratio Lower Upper

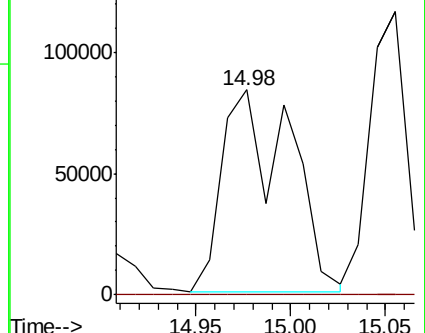
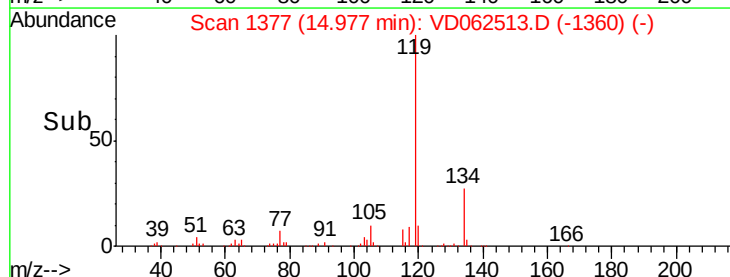
117 100

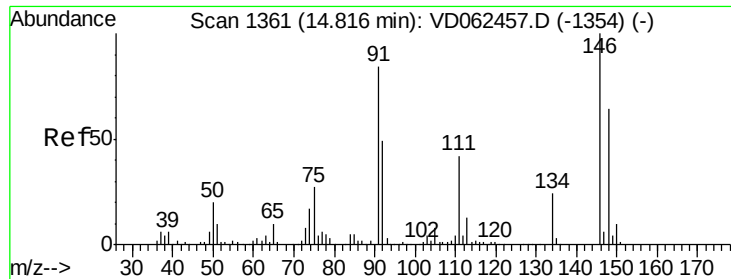
201 0.0 30.2 90.6#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V

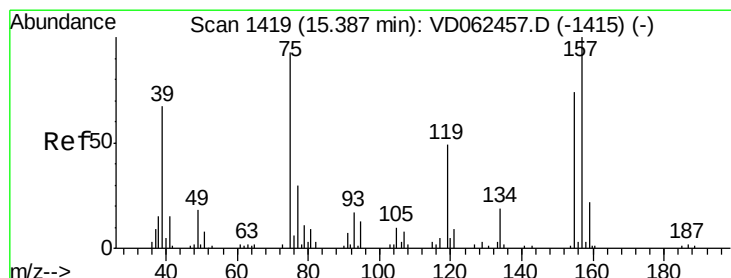
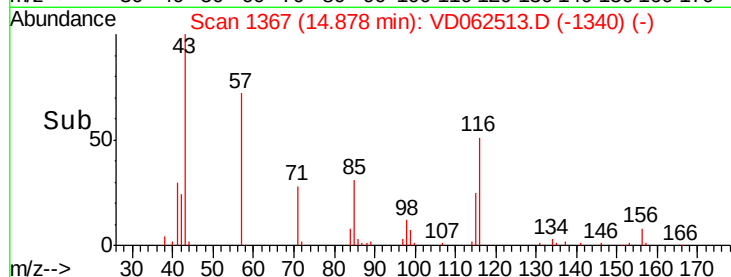
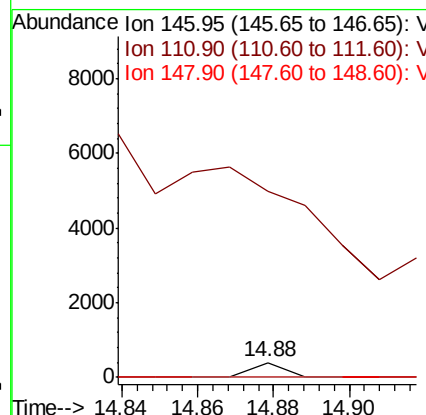
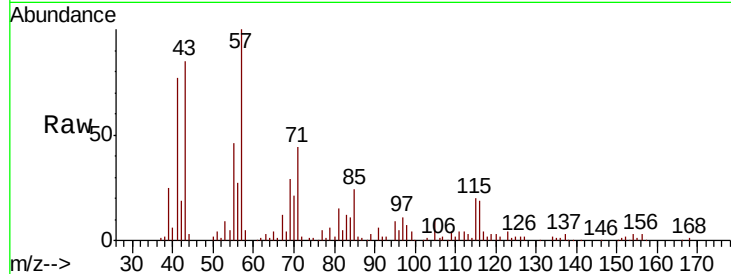




#91
 1,2-Dichlorobenzene
 Concen: 1.602 ug/l
 RT: 14.88 min Scan# 1367
 Delta R.T. 0.06 min
 Lab File: VD062513.D
 Acq: 22 May 2019 19:56

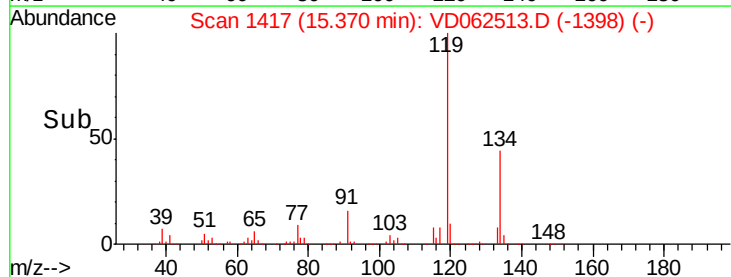
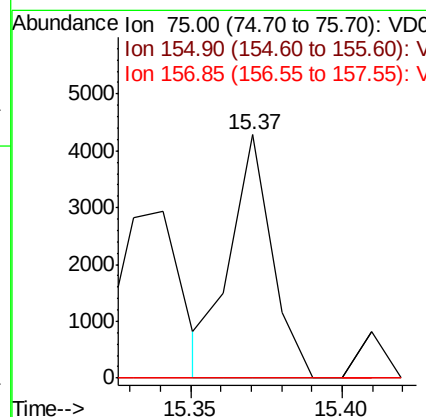
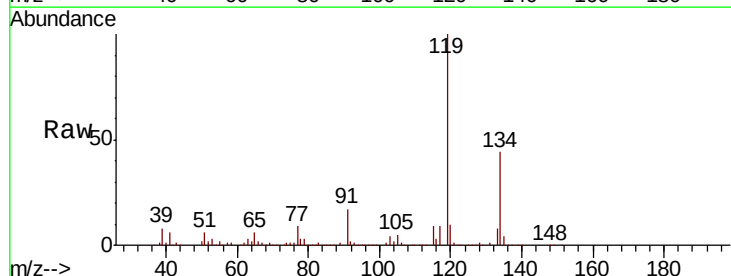
Instrument :
 MSVOA_D
 ClientSampled :

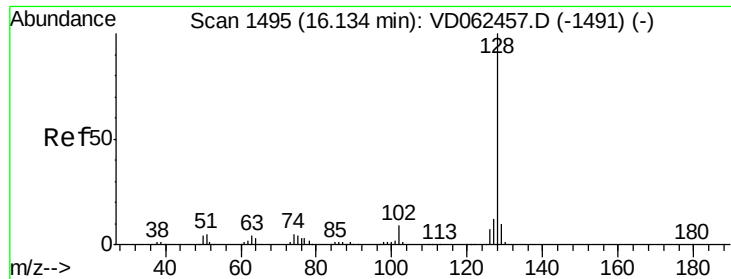
Tot Ion:146 Resp: 237
 Ion Ratio Lower Upper
 146 100
 111 1242.8 20.0 59.9#
 148 0.0 32.3 96.8#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 344.348 ug/l
 RT: 15.37 min Scan# 1417
 Delta R.T. -0.02 min
 Lab File: VD062513.D
 Acq: 22 May 2019 19:56

Tgt Ion: 75 Resp: 4094
 Ion Ratio Lower Upper
 75 100
 155 0.0 55.3 165.8#
 157 0.0 67.8 203.2#





#95
 Naphthalene
 Concen: 1536.004 ug/l
 RT: 16.12 min Scan# 1493
 Delta R.T. -0.02 min
 Lab File: VD062513.D
 Acq: 22 May 2019 19:56

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.3	9.8	14.8
129	10.4	8.8	13.2

