

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
 Data File : VD062512.D
 Acq On : 22 May 2019 19:29
 Operator : VA/AP
 Sample : K2996-11
 Misc : 6.72g/5ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: May 23 03:16:41 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	7.04	168	609867	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.21	114	871330	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.37	117	547310	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	119525	50.00	ug/l	-0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.44	65	332854	50.99	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	101.98%	
35) Dibromofluoromethane	6.91	113	364459	46.37	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	92.74%	
50) Toluene-d8	10.41	98	1193454	69.38	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	138.76%	
62) 4-Bromofluorobenzene	13.55	95	505279	67.15	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	134.30%	

Target Compounds

					Qvalue	
11) Tert butyl alcohol	4.05	59	1274	4.228	ug/l	# 1
13) Acrolein	3.16	56	273511	1092.989	ug/l	87
14) Allyl chloride	3.67	41	63226	9.494	ug/l	# 63
15) Acrylonitrile	4.21	53	473275	685.423	ug/l	# 42
16) Acetone	3.16	43	892328	762.773	ug/l	# 60
20) Methylene Chloride	3.79	84	27541	Below Cal		# 1
23) Vinyl Acetate	5.05	43	111106	12.972	ug/l	# 90
24) 1,1-Dichloroethane	5.05	63	43060	4.717	ug/l	# 85
25) 2-Butanone	5.99	43	275479	225.148	ug/l	# 56
29) Tetrahydrofuran	6.45	42	30526	52.239	ug/l	# 30
30) Chloroform	6.60	83	1425007	122.438	ug/l	# 24
31) Cyclohexane	6.99	56	4934851	800.600	ug/l	# 44
36) 1,1-Dichloropropene	7.04	75	54594	6.554	ug/l	# 58
37) Ethyl Acetate	6.31	43	46977	14.516	ug/l	# 1
38) Carbon Tetrachloride	7.04	117	60776	4.909	ug/l	# 16
39) Methylcyclohexane	8.87	83	5636692	820.359	ug/l	# 86
40) Benzene	7.44	78	21484	1.315	ug/l	93
41) Methacrylonitrile	6.45	41	390938	96.184	ug/l	# 70
42) 1,2-Dichloroethane	7.62	62	18199	2.103	ug/l	# 1
43) Isopropyl Acetate	9.28	43	996756	232.168	ug/l	# 44
45) 1,2-Dichloropropane	8.94	63	20616	5.177	ug/l	# 1
46) Dibromomethane	9.01	93	31388	8.696	ug/l	# 1
47) Bromodichloromethane	9.39	83	2259888	246.104	ug/l	# 27
48) Methyl methacrylate	9.15	41	2235692	773.827	ug/l	# 83
49) 1,4-Dioxane	8.84	88	198	7.640	ug/l	# 1
51) 4-Methyl-2-Pentanone	10.37	43	1631143	575.114	ug/l	# 71
52) Toluene	10.50	92	125513	11.220	ug/l	97
55) 1,1,2-Trichloroethane	11.11	97	2995329	790.058	ug/l	# 22
56) Ethyl methacrylate	11.10	69	1728922	426.580	ug/l	# 1
58) 2-Chloroethyl Vinyl ether	9.96	63	62139	29.858	ug/l	# 46
59) 2-Hexanone	11.49	43	4082575	1980.583	ug/l	# 32
60) Dibromochloromethane	11.65	129	18260	2.508	ug/l	66
61) 1,2-Dibromoethane	11.75	107	5982	1.280	ug/l	# 1
67) Ethyl Benzene	12.53	91	531011	29.291	ug/l	95

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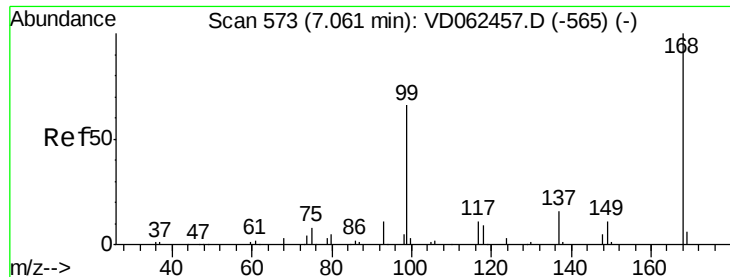
Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: May 23 03:16:41 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)

68) m/p-Xylenes	12.68	106	144089	22.142	ug/l #	64
69) o-Xylene	13.05	106	21783	3.548	ug/l #	1
73) Isopropylbenzene	13.41	105	2692096	357.321	ug/l	96
74) N-amyl acetate	13.24	43	2823102	1517.146	ug/l #	54
75) 1,1,2,2-Tetrachloroethane	13.70	83	498921	367.067	ug/l #	47
76) 1,2,3-Trichloropropane	13.73	75	1478	1.050	ug/l #	1
77) Bromobenzene	13.61	156	5509	2.578	ug/l #	1
78) n-propylbenzene	13.78	91	3088973	353.955	ug/l	99
79) 2-Chlorotoluene	13.90	91	161985	30.586	ug/l #	47
80) 1,3,5-Trimethylbenzene	13.94	105	200074	30.670	ug/l	99
81) trans-1,4-Dichloro-2-buten	13.55	75	64070	161.363	ug/l #	1
82) 4-Chlorotoluene	14.01	91	88208	14.462	ug/l #	61
83) tert-Butylbenzene	14.19	119	116759	16.136	ug/l #	22
84) 1,2,4-Trimethylbenzene	14.24	105	79520	11.896	ug/l	92
85) sec-Butylbenzene	14.37	105	643280	85.258	ug/l	84
86) p-Isopropyltoluene	14.50	119	235517	34.445	ug/l #	36
89) n-Butylbenzene	14.80	91	1387889	210.324	ug/l	86
90) Hexachloroethane	14.98	117	98291	52.015	ug/l #	20
91) 1,2-Dichlorobenzene	14.89	146	5460	1.701	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	15.42	75	16602	64.350	ug/l #	1
95) Naphthalene	16.12	128	137771	39.900	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.02 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

MSVOA_D

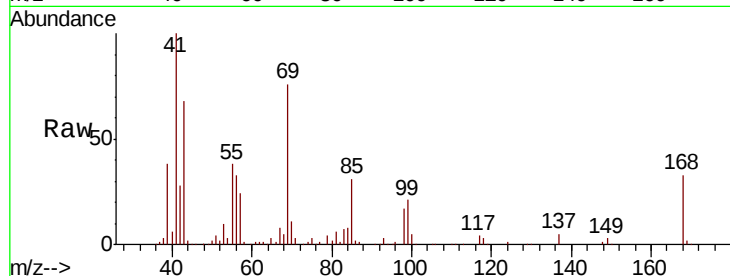
ClientSampleId :

Tot Ion:168 Resp: 609867

Ion Ratio Lower Upper

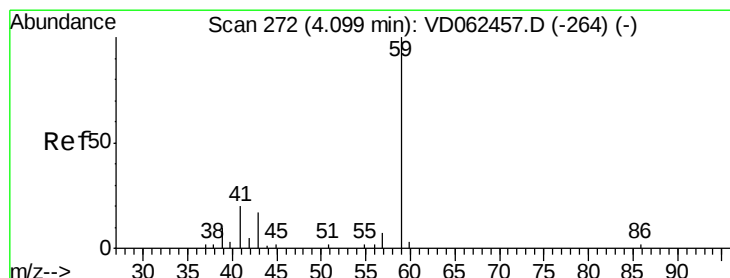
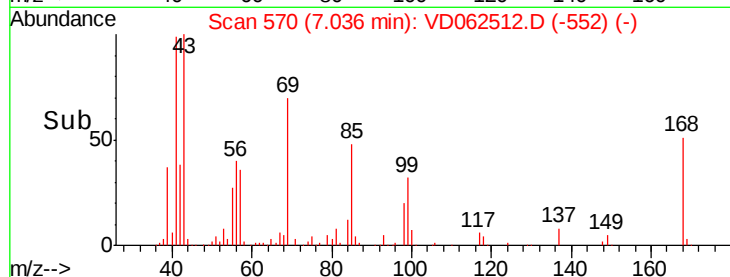
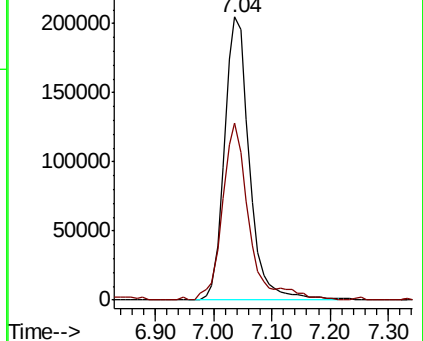
168 100

99 62.4 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 4.228 ug/l

RT: 4.05 min Scan# 267

Delta R.T. -0.04 min

Lab File: VD062512.D

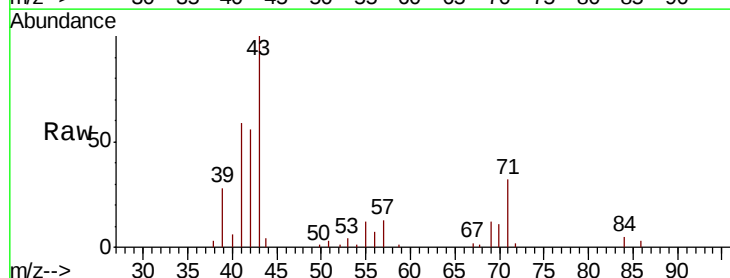
Acq: 22 May 2019 19:29

Tgt Ion: 59 Resp: 1274

Ion Ratio Lower Upper

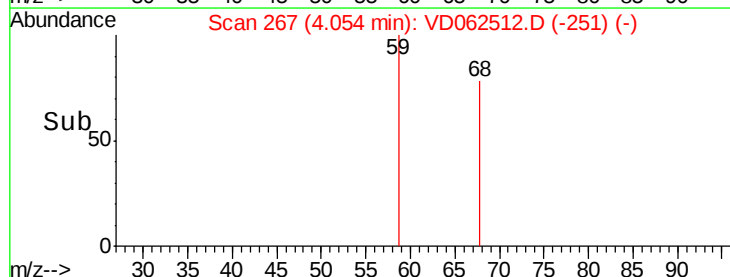
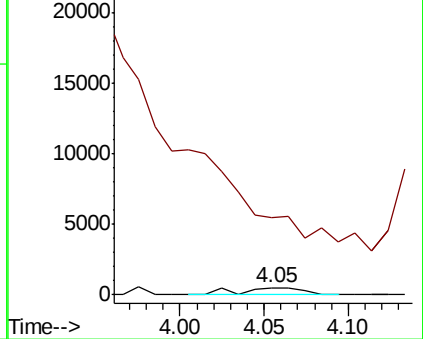
59 100

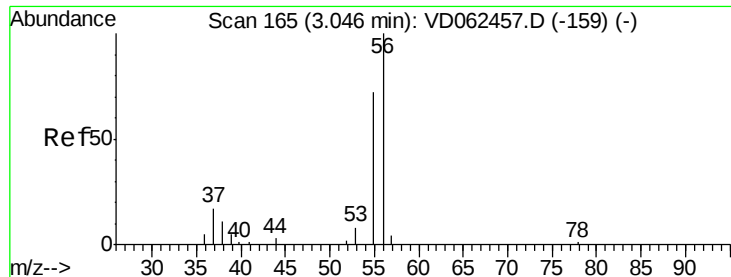
57 1062.6 6.9 10.3#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

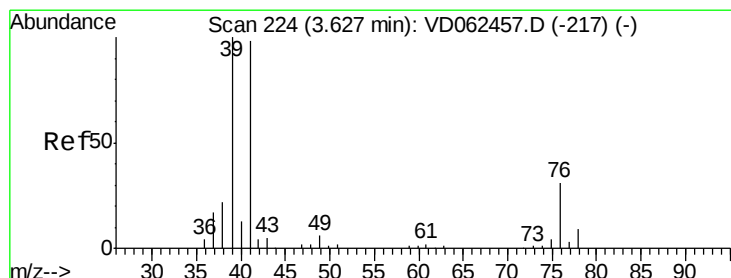
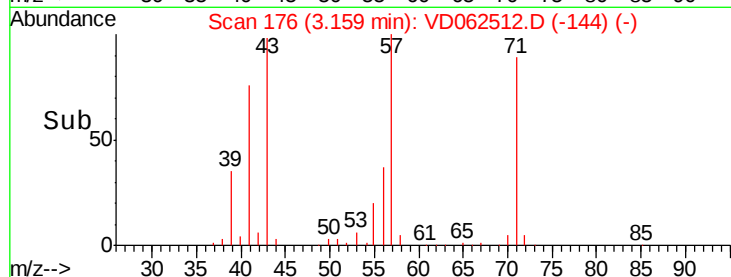
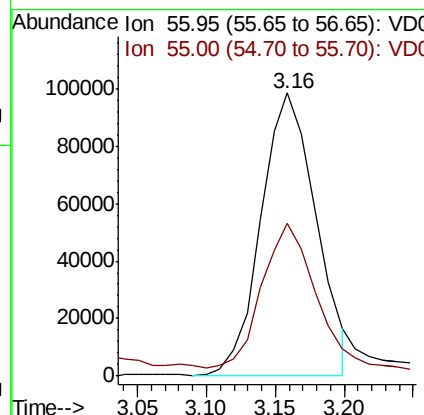
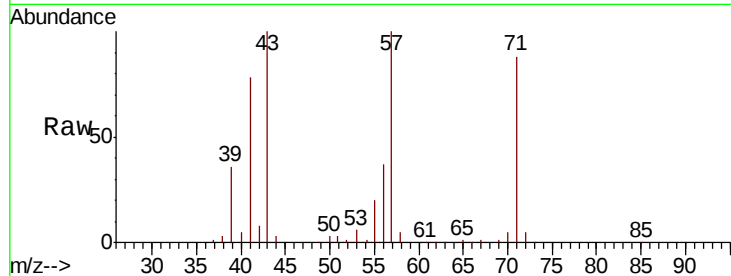




#13
Acrolein
Concen: 1092.989 ug/l
RT: 3.16 min Scan# 176
Delta R.T. 0.11 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

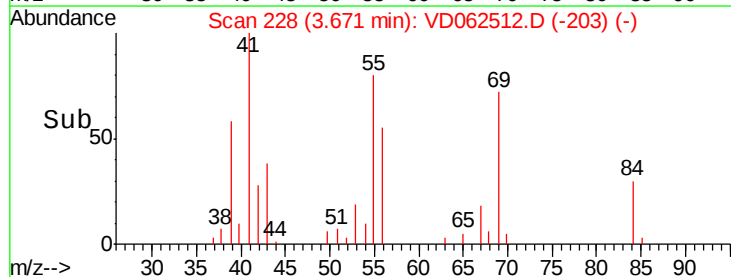
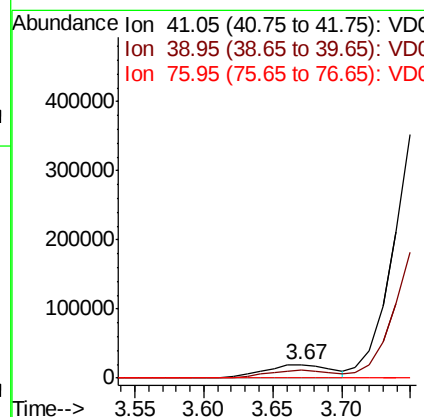
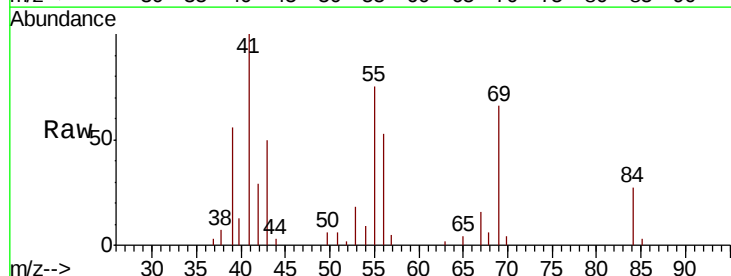
Instrument :
MSVOA_D
ClientSampled :

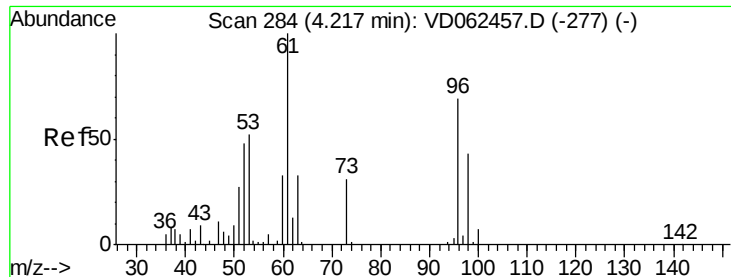
Tot Ion: 56 Resp: 273511
Ion Ratio Lower Upper
56 100
55 54.1 51.4 77.2



#14
Allyl chloride
Concen: 9.494 ug/l
RT: 3.67 min Scan# 228
Delta R.T. 0.04 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

Tgt Ion: 41 Resp: 63226
Ion Ratio Lower Upper
41 100
39 56.2 60.5 90.7#
76 0.0 31.8 47.8#





#15

Acrylonitrile

Concen: 685.423 ug/l

RT: 4.21 min Scan# 283

Delta R.T. -0.01 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

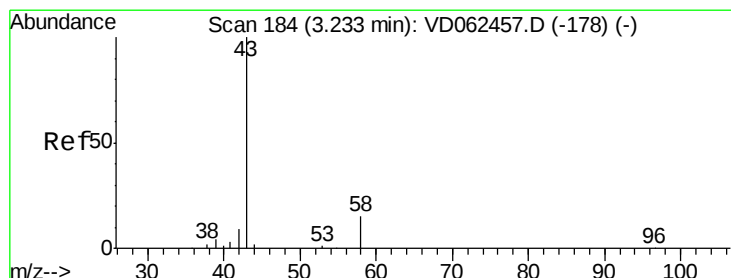
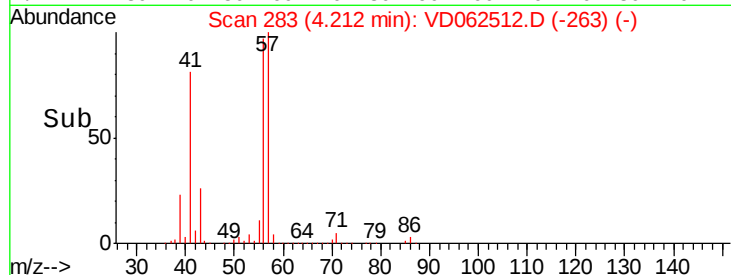
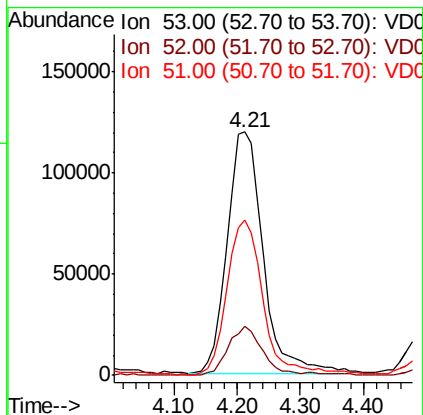
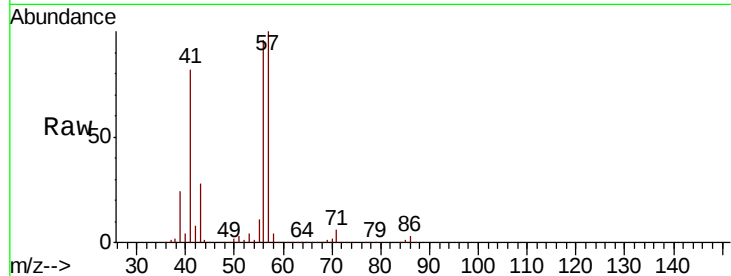
Tot Ion: 53 Resp: 473275

Ion Ratio Lower Upper

53 100

52 19.9 65.0 97.4#

51 64.0 32.6 48.8#



#16

Acetone

Concen: 762.773 ug/l

RT: 3.16 min Scan# 176

Delta R.T. -0.07 min

Lab File: VD062512.D

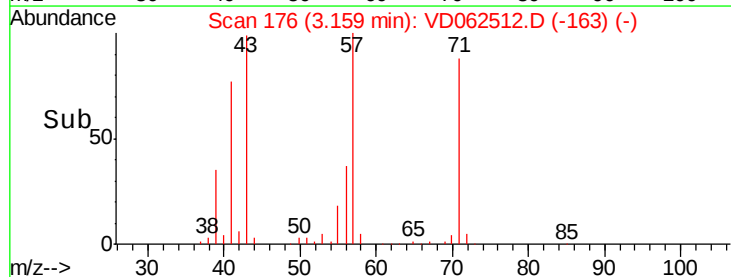
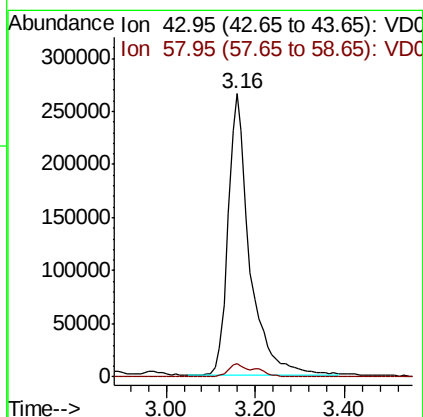
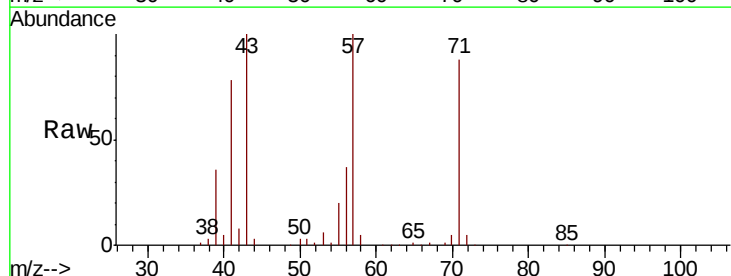
Acq: 22 May 2019 19:29

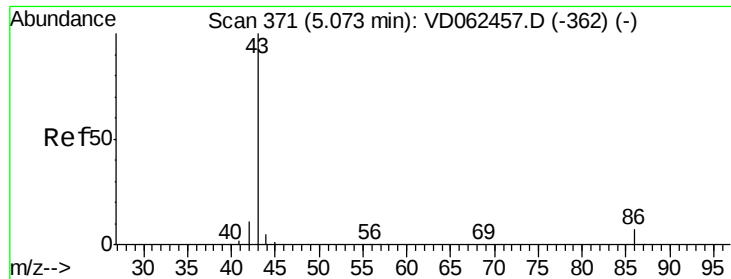
Tgt Ion: 43 Resp: 892328

Ion Ratio Lower Upper

43 100

58 4.7 19.9 29.9#





#23

Vinyl Acetate

Concen: 12.972 ug/l

RT: 5.05 min Scan# 368

Delta R.T. -0.02 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

MSVOA_D

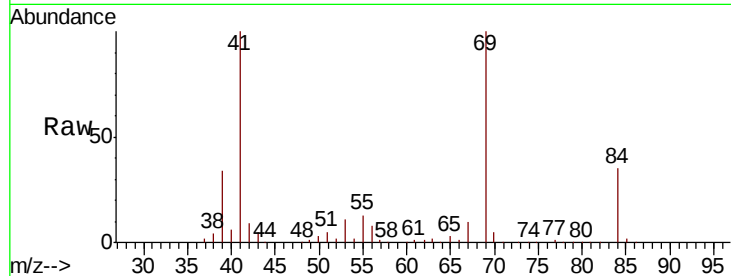
ClientSampleId :

Tot Ion: 43 Resp: 111106

Ion Ratio Lower Upper

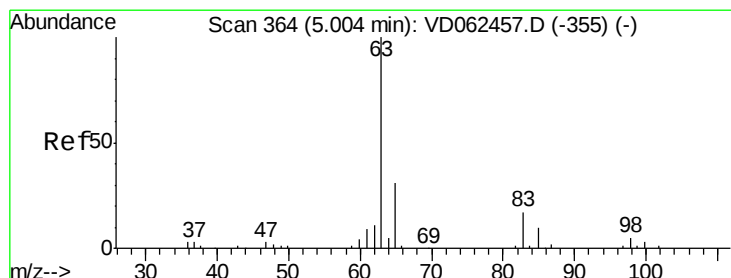
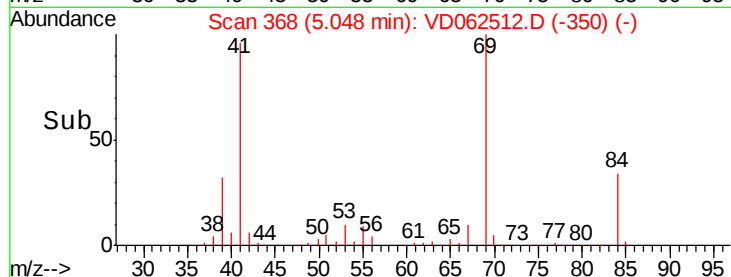
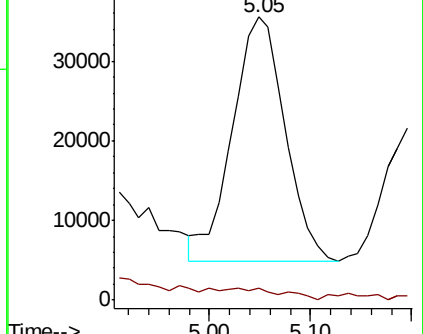
43 100

86 4.4 6.4 9.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 4.717 ug/l

RT: 5.05 min Scan# 368

Delta R.T. 0.04 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

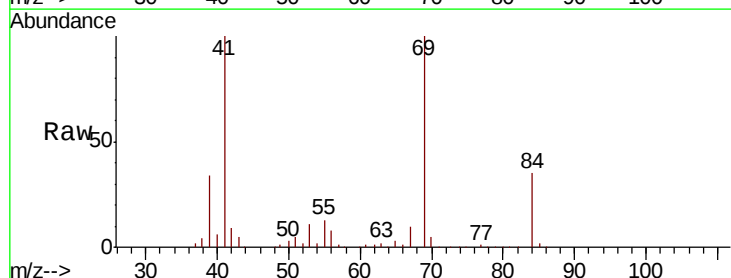
Tgt Ion: 63 Resp: 43060

Ion Ratio Lower Upper

63 100

98 0.0 2.8 8.4#

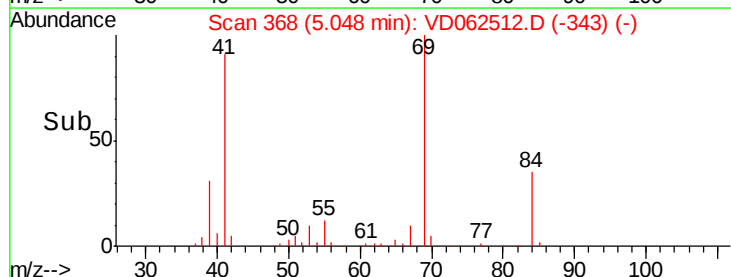
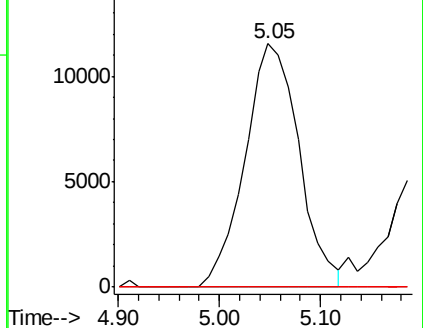
100 0.0 1.8 5.5#

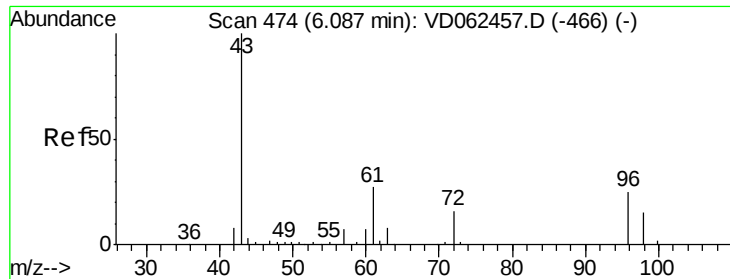


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 225.148 ug/l

RT: 5.99 min Scan# 464

Delta R.T. -0.09 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

MSVOA_D

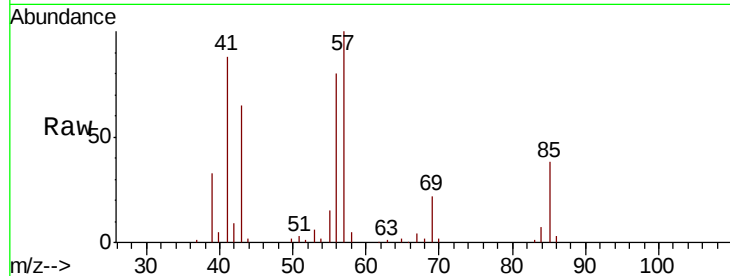
ClientSampleId :

Tot Ion: 43 Resp: 275479

Ion Ratio Lower Upper

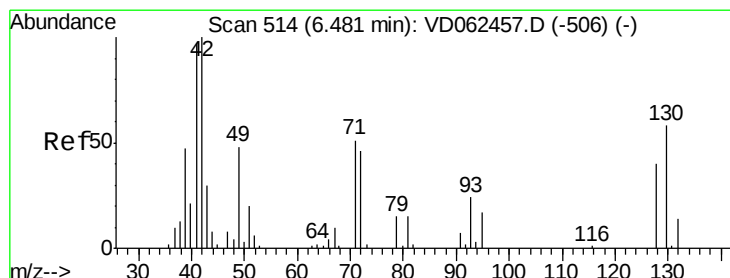
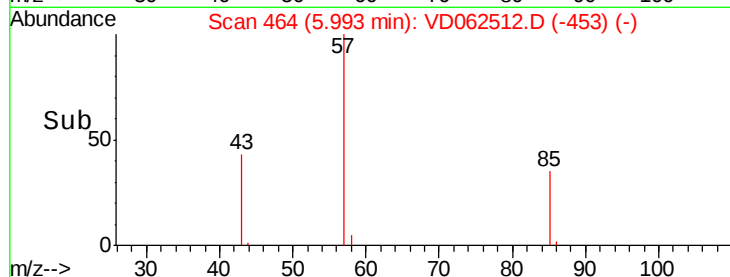
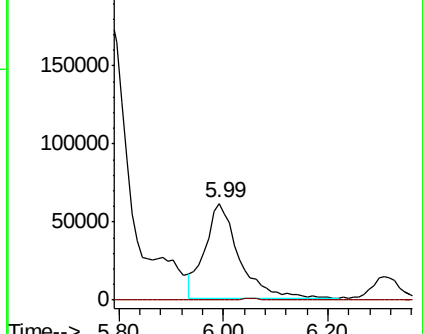
43 100

72 0.0 16.2 24.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 52.239 ug/l

RT: 6.45 min Scan# 510

Delta R.T. -0.03 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

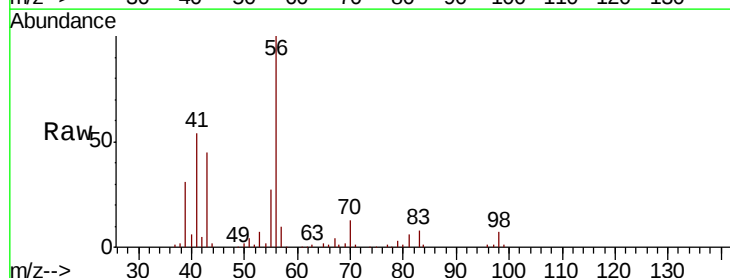
Tgt Ion: 42 Resp: 30526

Ion Ratio Lower Upper

42 100

72 0.0 37.8 56.6#

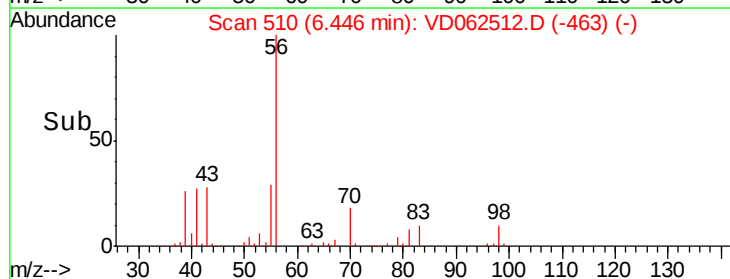
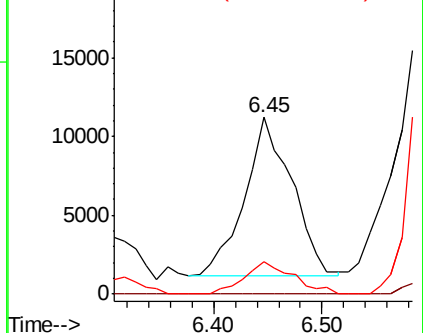
71 0.0 36.7 55.1#

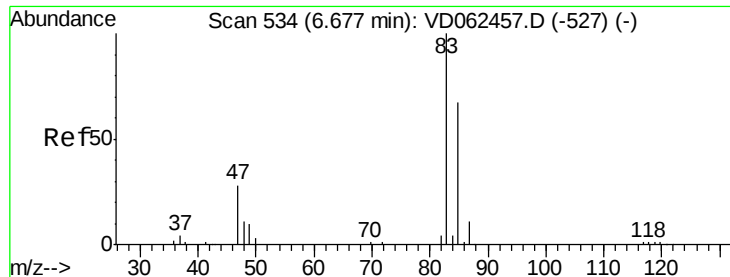


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

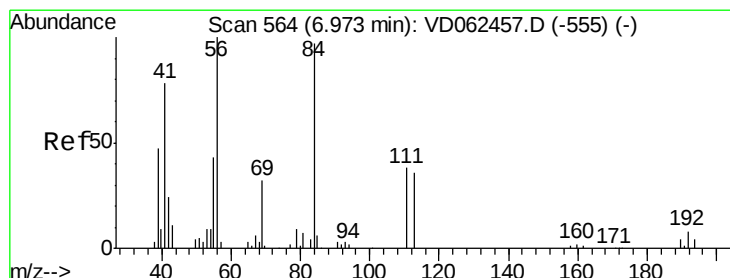
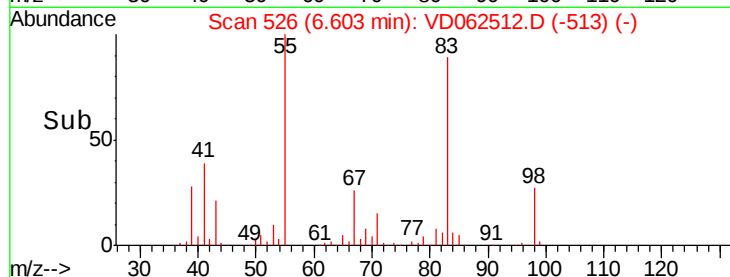
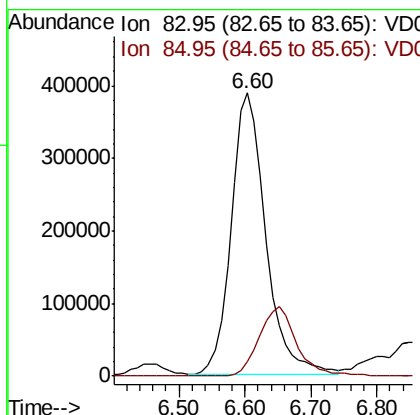
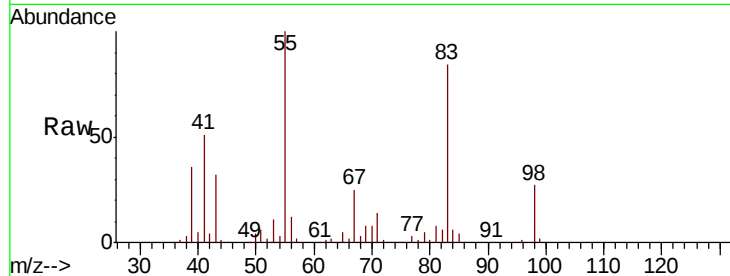




#30
Chloroform
Concen: 122.438 ug/l
RT: 6.60 min Scan# 526
Delta R.T. -0.07 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

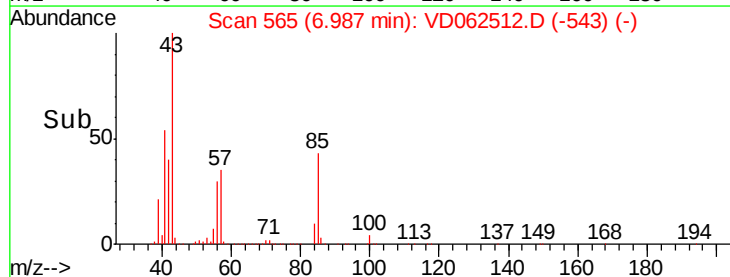
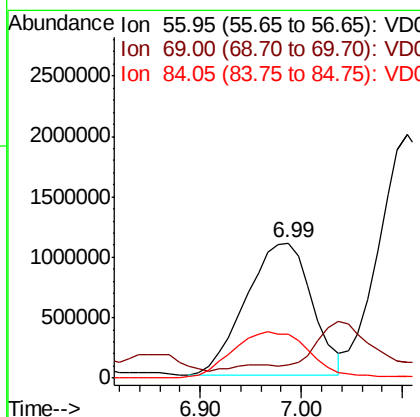
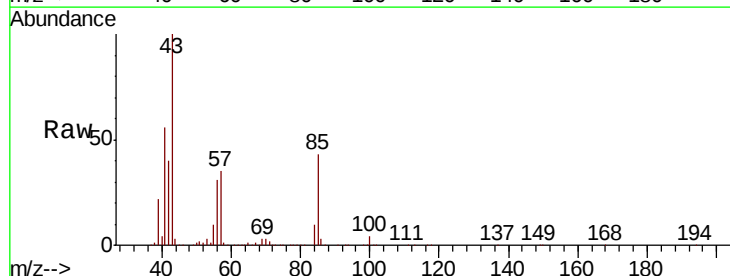
Instrument :
MSVOA_D
ClientSampled :

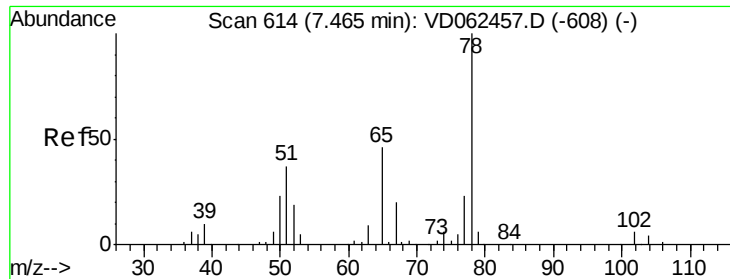
Tot Ion: 83 Resp: 1425007
Ion Ratio Lower Upper
83 100
85 5.0 51.7 77.5#



#31
Cyclohexane
Concen: 800.600 ug/l
RT: 6.99 min Scan# 565
Delta R.T. 0.01 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

Tgt Ion: 56 Resp: 4934851
Ion Ratio Lower Upper
56 100
69 9.6 25.8 38.6#
84 32.6 72.2 108.4#





#33

1,2-Dichloroethane-d4

Concen: 50.987 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.02 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

MSVOA_D

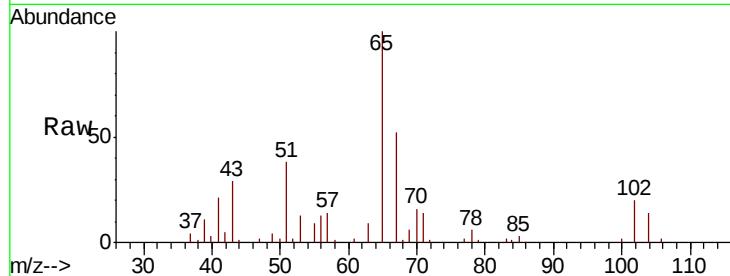
ClientSampleId :

Tot Ion: 65 Resp: 332854

Ion Ratio Lower Upper

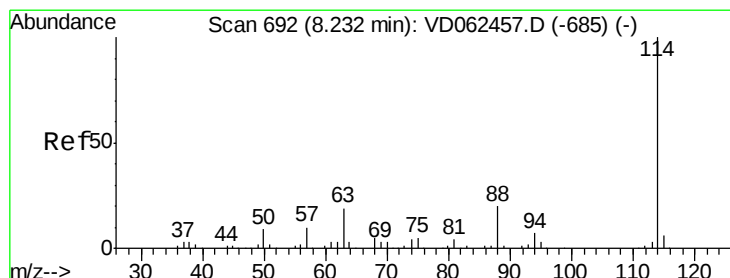
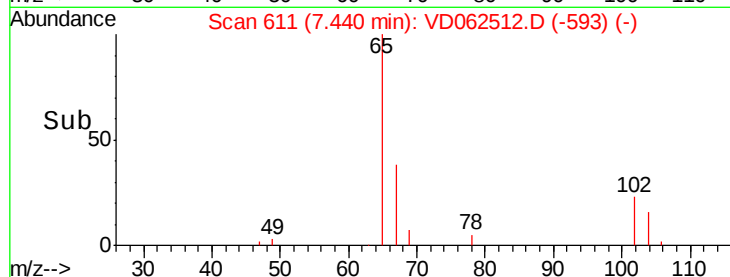
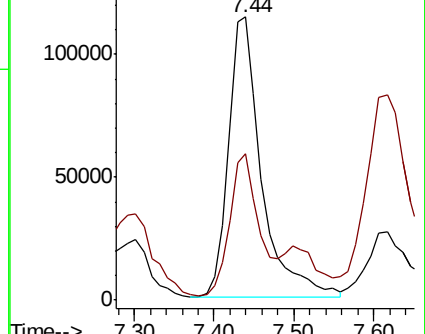
65 100

67 51.7 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. -0.02 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

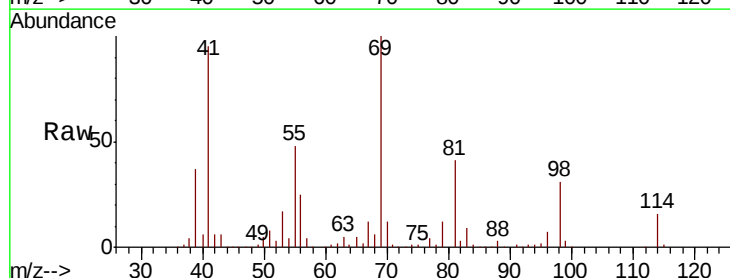
Tgt Ion: 114 Resp: 871330

Ion Ratio Lower Upper

114 100

63 32.2 0.0 32.4

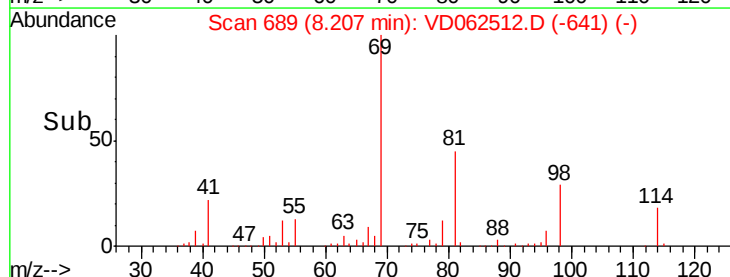
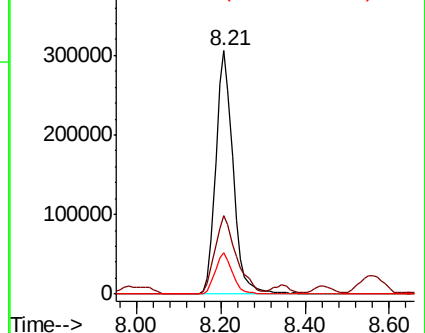
88 17.1 0.0 33.6

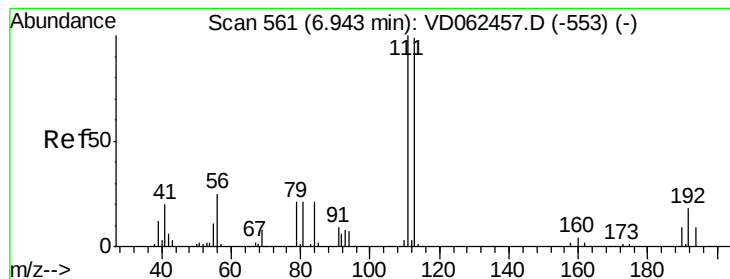


Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 46.366 ug/l

RT: 6.91 min Scan# 557

Delta R.T. -0.03 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

MSVOA_D

ClientSampled :

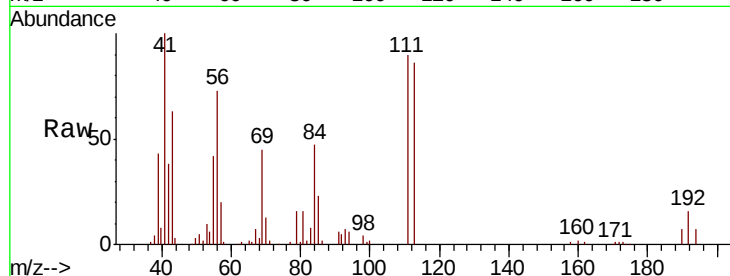
Tot Ion:113 Resp: 364459

Ion Ratio Lower Upper

113 100

111 104.3 78.5 117.7

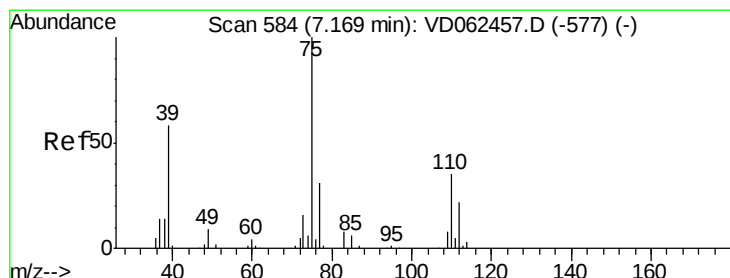
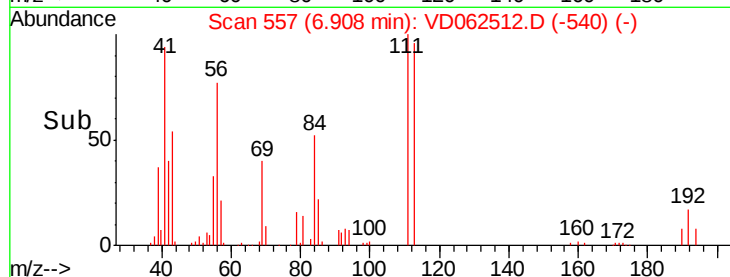
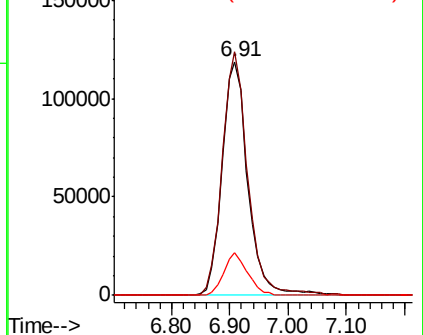
192 18.0 13.0 19.4



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: 6.554 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.13 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

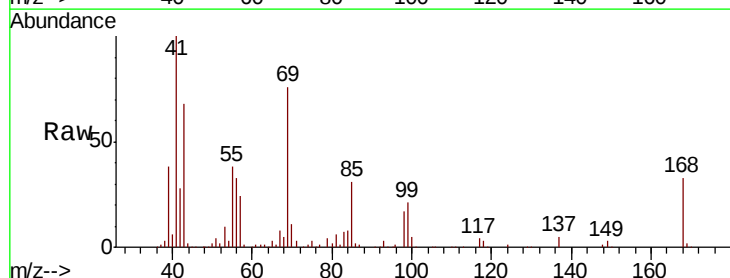
Tgt Ion: 75 Resp: 54594

Ion Ratio Lower Upper

75 100

110 5.9 19.1 57.1#

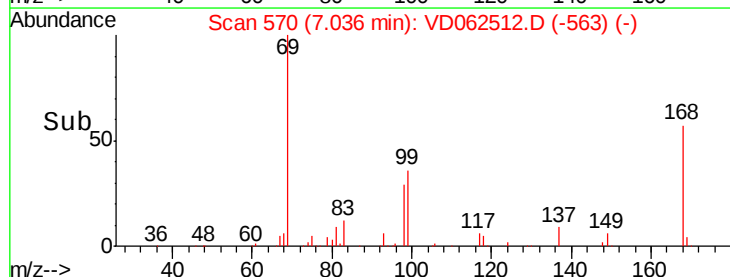
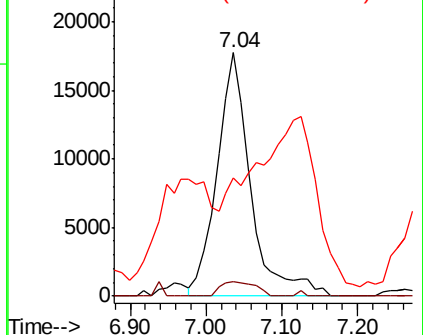
77 48.5 25.6 38.4#

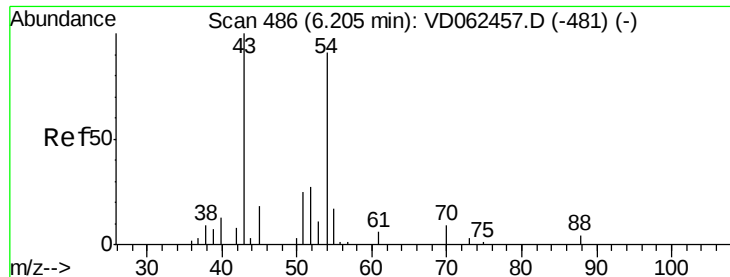


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

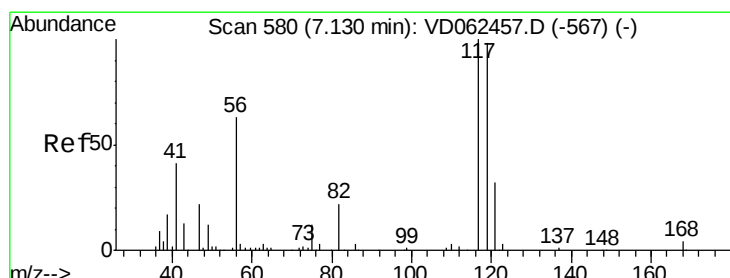
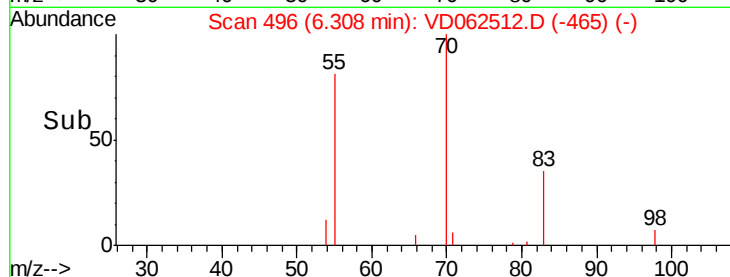
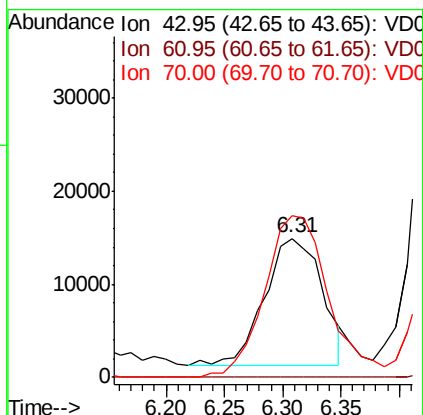
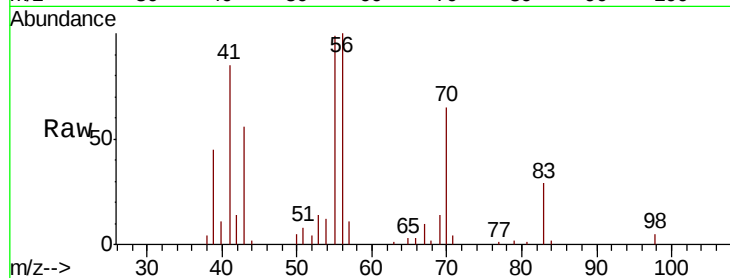




#37
Ethyl Acetate
Concen: 14.516 ug/l
RT: 6.31 min Scan# 496
Delta R.T. 0.10 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

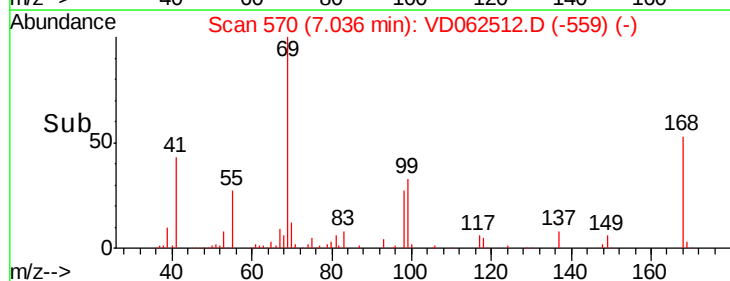
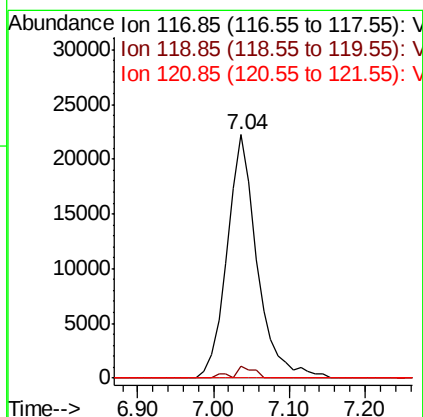
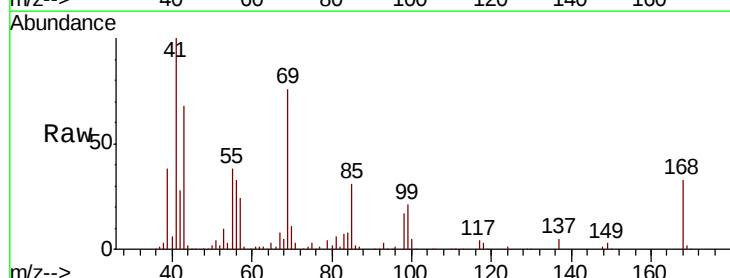
Instrument :
MSVOA_D
ClientSampled :

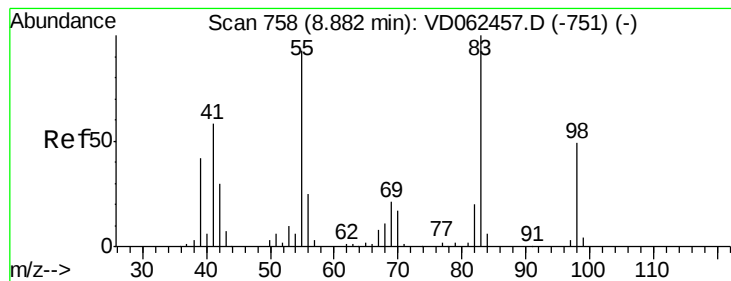
Tot Ion: 43 Resp: 46977
Ion Ratio Lower Upper
43 100
61 0.0 14.7 22.1#
70 116.5 7.8 11.6#



#38
Carbon Tetrachloride
Concen: 4.909 ug/l
RT: 7.04 min Scan# 570
Delta R.T. -0.09 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

Tgt Ion: 117 Resp: 60776
Ion Ratio Lower Upper
117 100
119 5.2 75.8 113.8#
121 0.0 25.9 38.9#





#39

Methvlcvclohexane

Concen: 820.359 ug/l

RT: 8.87 min Scan# 756

Delta R.T. -0.02 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

MSVOA_D

ClientSampled :

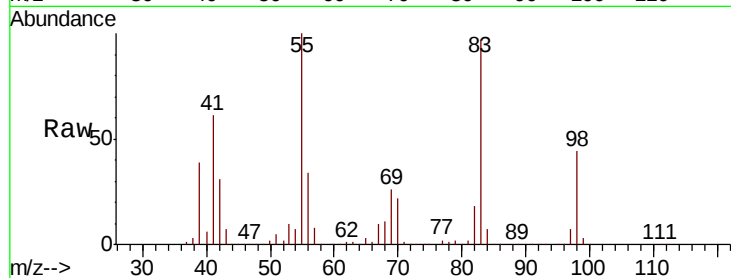
Tot Ion: 83 Resp: 5636692

Ion Ratio Lower Upper

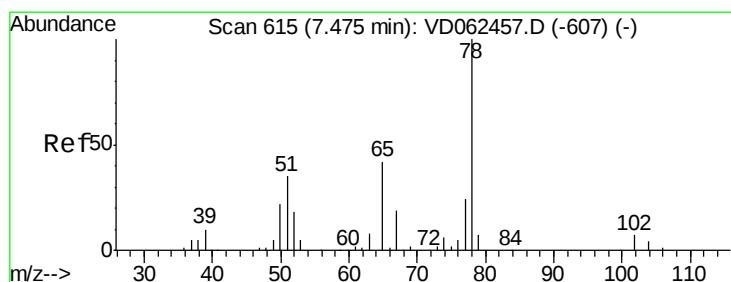
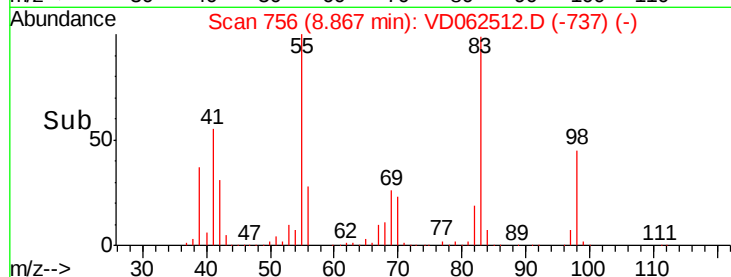
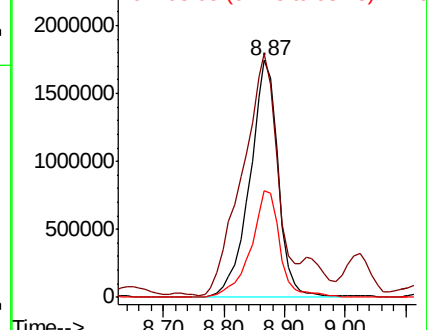
83 100

55 102.8 68.2 102.4#

98 45.1 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: 1.315 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.03 min

Lab File: VD062512.D

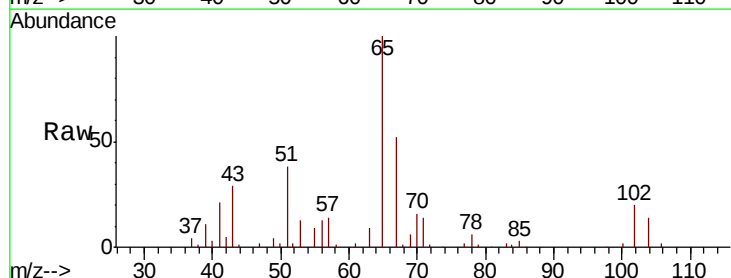
Acq: 22 May 2019 19:29

Tgt Ion: 78 Resp: 21484

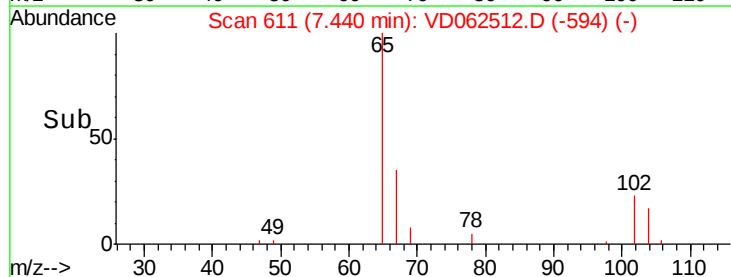
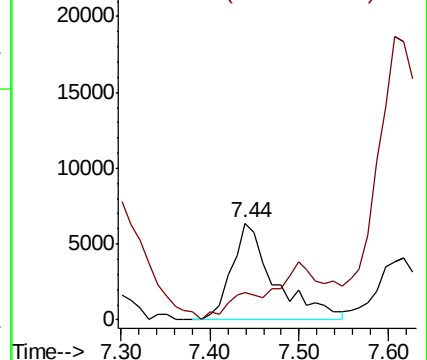
Ion Ratio Lower Upper

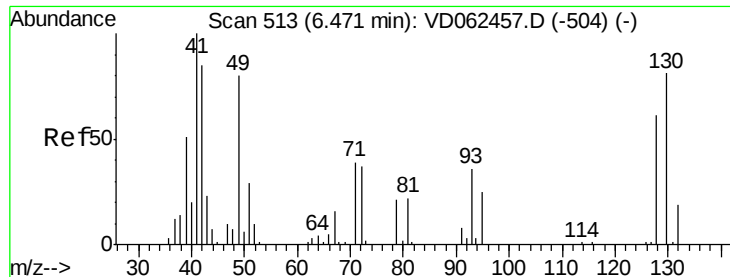
78 100

77 27.9 19.7 29.5



Abundance Ion 77.95 (77.65 to 78.65): VDC
Ion 76.95 (76.65 to 77.65): VDC





#41

Methacrylonitrile

Concen: 96.184 ug/l

RT: 6.45 min Scan# 510

Delta R.T. -0.02 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

MSVOA_D

ClientSampled :

Tot Ion: 41 Resp: 390938

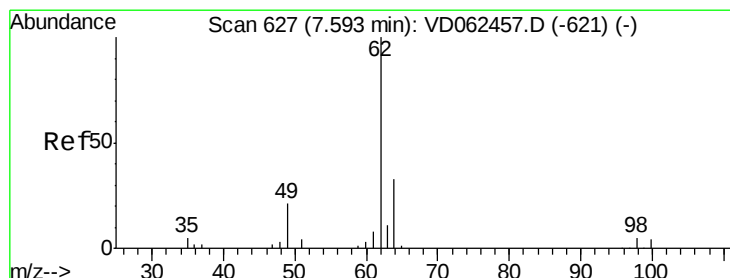
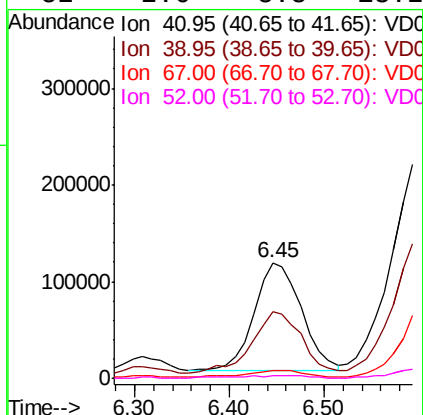
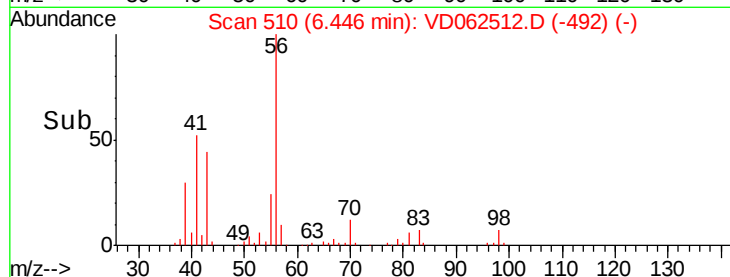
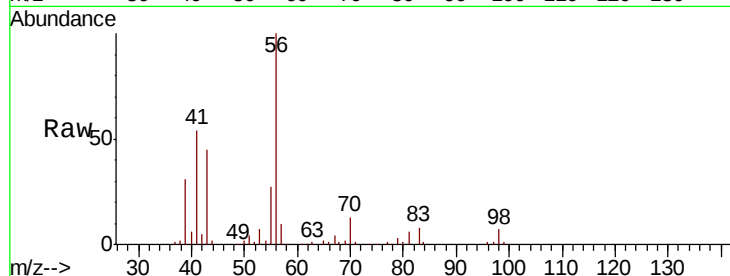
Ion Ratio Lower Upper

41 100

39 57.0 34.1 51.1#

67 6.5 23.8 35.6#

52 2.6 8.8 13.2#



#42

1,2-Dichloroethane

Concen: 2.103 ug/l

RT: 7.62 min Scan# 629

Delta R.T. 0.02 min

Lab File: VD062512.D

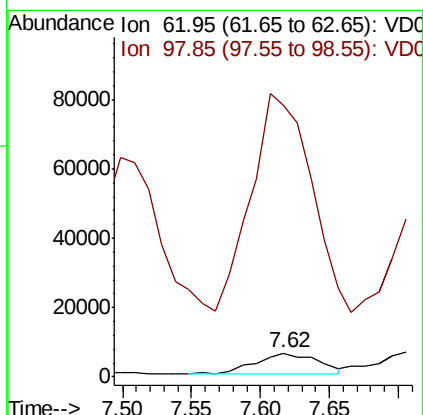
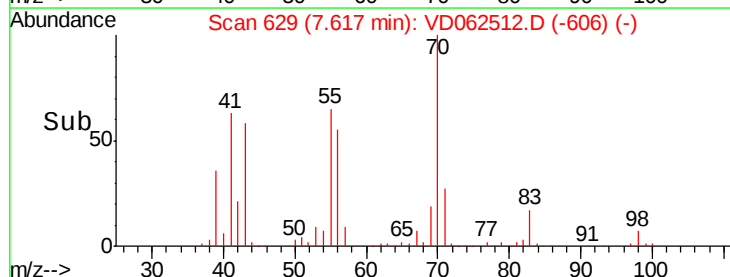
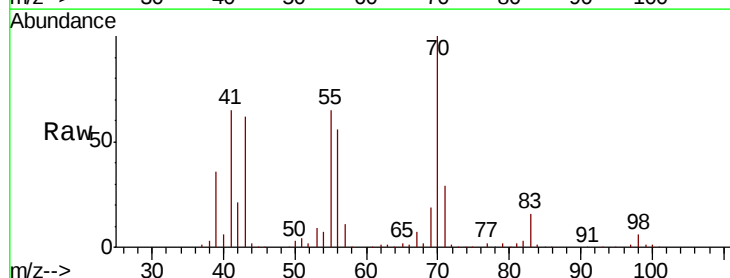
Acq: 22 May 2019 19:29

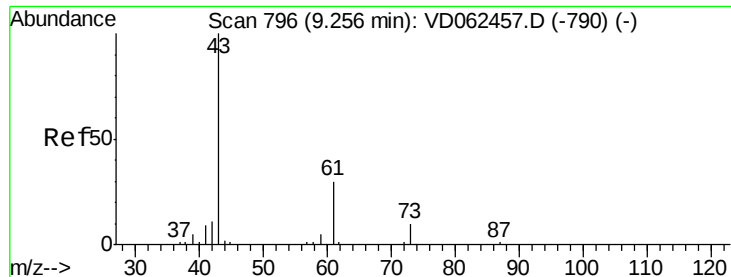
Tgt Ion: 62 Resp: 18199

Ion Ratio Lower Upper

62 100

98 1140.3 0.0 17.8#





#43

Isopropyl Acetate

Concen: 232.168 ug/l

RT: 9.28 min Scan# 798

Delta R.T. 0.02 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

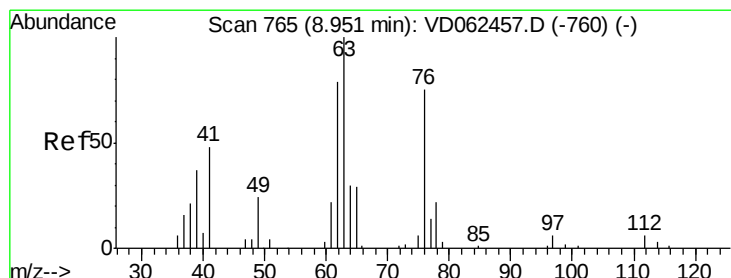
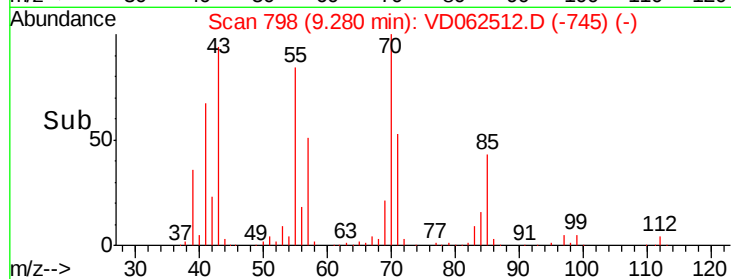
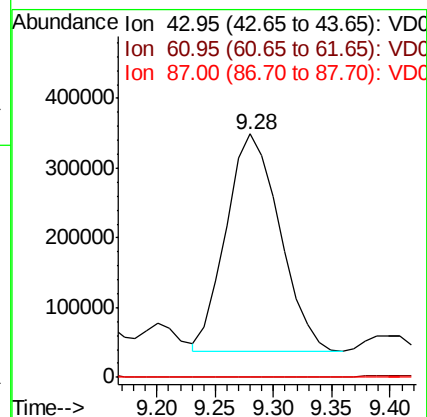
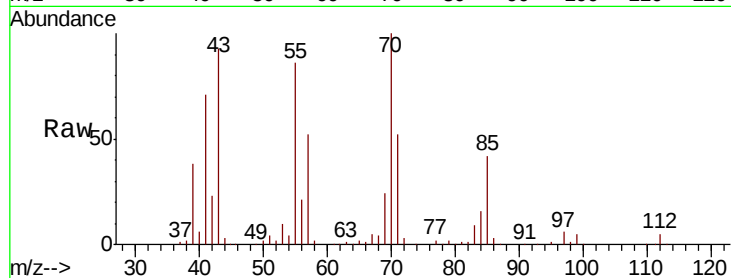
Tot Ion: 43 Resp: 996756

Ion Ratio Lower Upper

43 100

61 0.2 25.1 37.7#

87 0.1 0.0 0.0#



#45

1,2-Dichloropropane

Concen: 5.177 ug/l

RT: 8.94 min Scan# 763

Delta R.T. -0.02 min

Lab File: VD062512.D

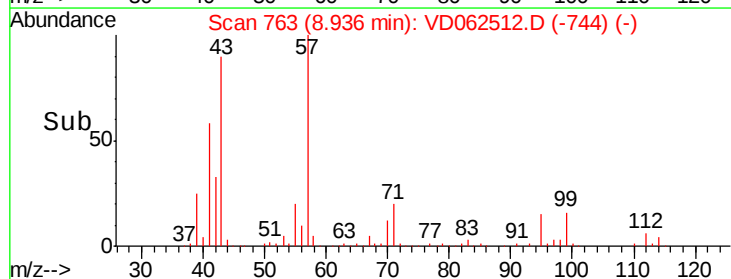
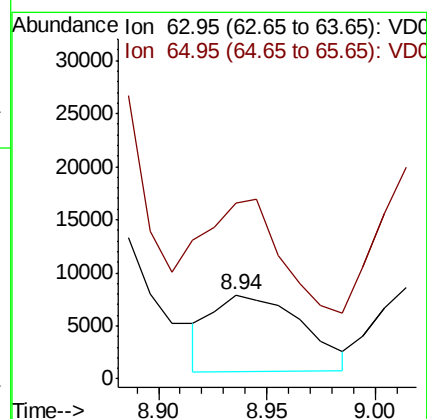
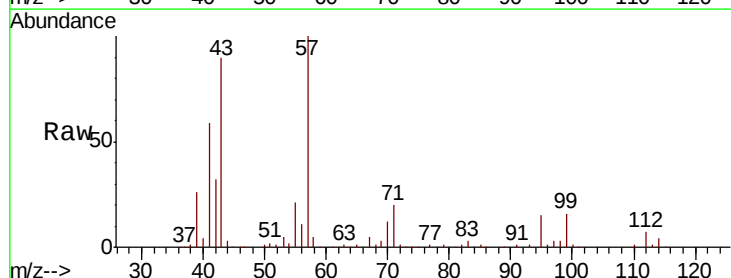
Acq: 22 May 2019 19:29

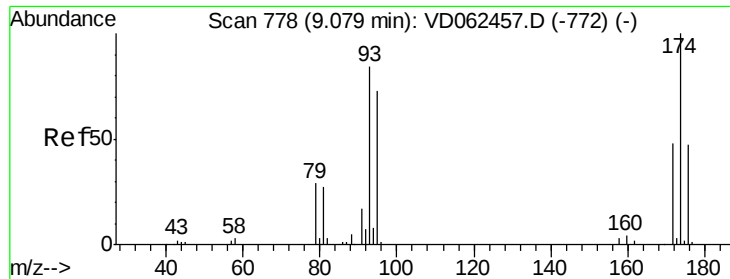
Tgt Ion: 63 Resp: 20616

Ion Ratio Lower Upper

63 100

65 209.6 23.8 35.6#

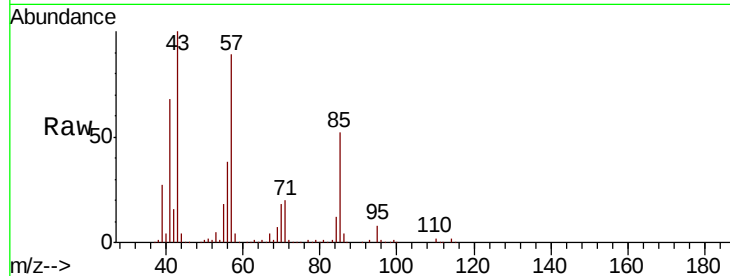




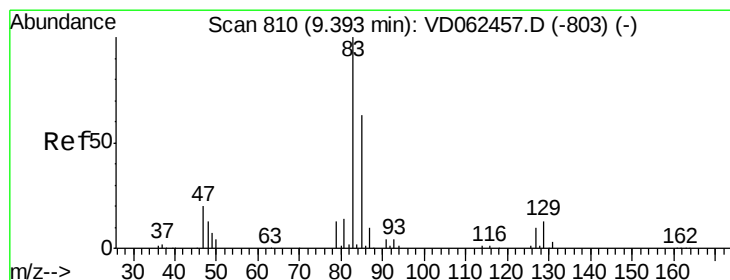
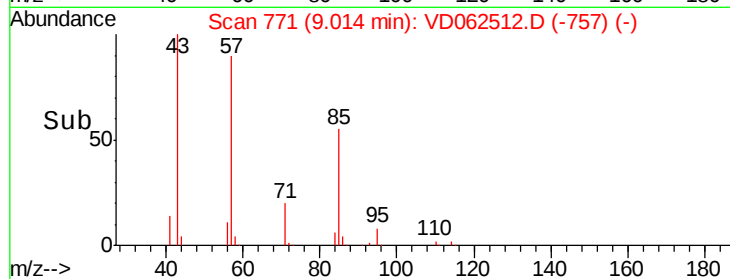
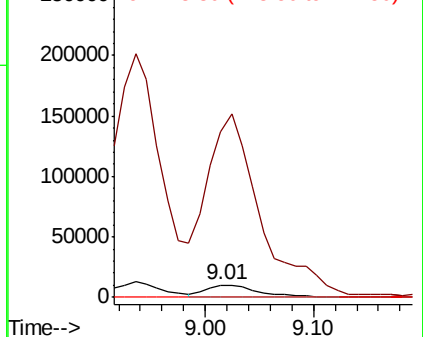
#46
 Dibromomethane
 Concen: 8.696 ug/l
 RT: 9.01 min Scan# 771
 Delta R.T. -0.06 min
 Lab File: VD062512.D
 Acq: 22 May 2019 19:29

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 93 Resp: 31388
 Ion Ratio Lower Upper
 93 100
 95 1315.4 64.8 97.2#
 174 0.0 79.3 118.9#

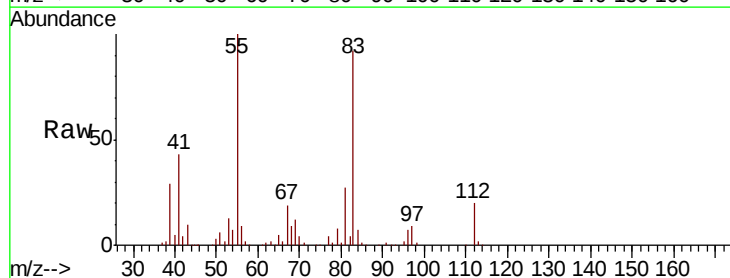


Abundance Ion 92.90 (92.60 to 93.60): VDC
 Ion 94.90 (94.60 to 95.60): VDC
 Ion 173.80 (173.50 to 174.50): V

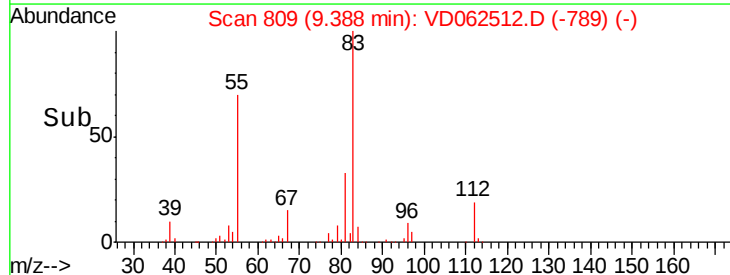
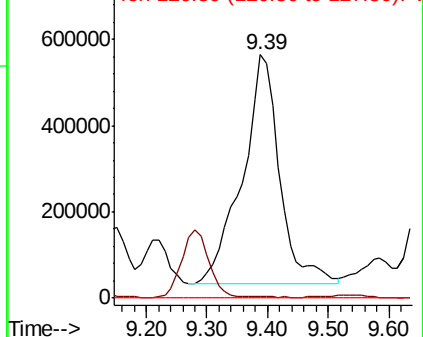


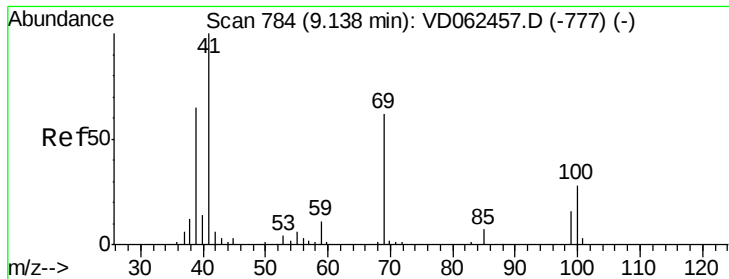
#47
 Bromodichloromethane
 Concen: 246.104 ug/l
 RT: 9.39 min Scan# 809
 Delta R.T. -0.01 min
 Lab File: VD062512.D
 Acq: 22 May 2019 19:29

Tgt Ion: 83 Resp: 2259888
 Ion Ratio Lower Upper
 83 100
 85 0.6 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: 773.827 ug/l

RT: 9.15 min Scan# 785

Delta R.T. 0.01 min

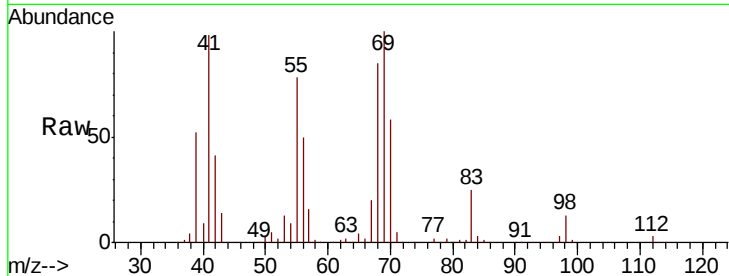
Lab File: VD062512.D

Acq: 22 May 2019 19:29

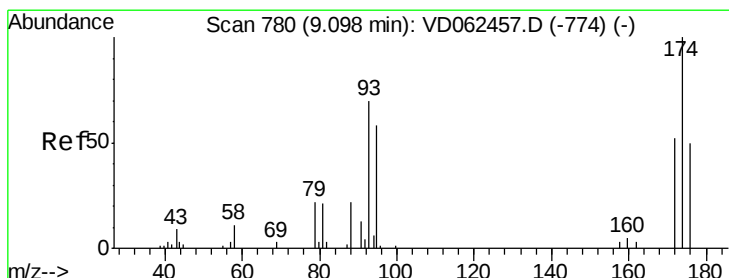
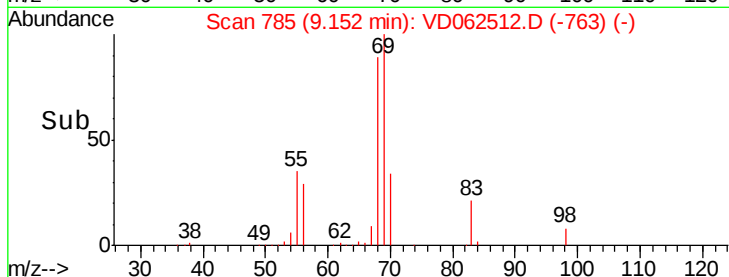
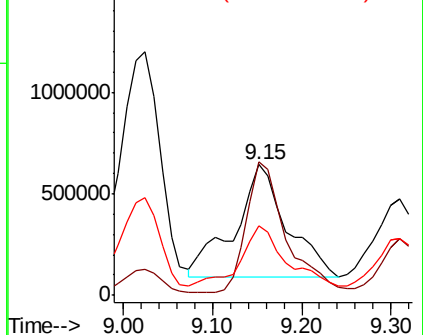
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 41 Resp: 2235692

Ion	Ratio	Lower	Upper
41	100		
69	101.8	64.2	96.2#
39	53.4	46.8	70.2



Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 38.95 (38.65 to 39.65): VDC



#49

1,4-Dioxane

Concen: 7.640 ug/l

RT: 8.84 min Scan# 753

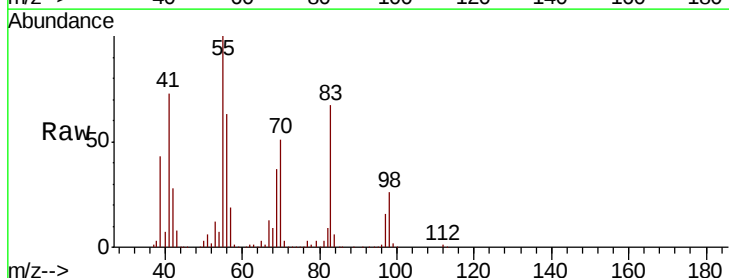
Delta R.T. -0.26 min

Lab File: VD062512.D

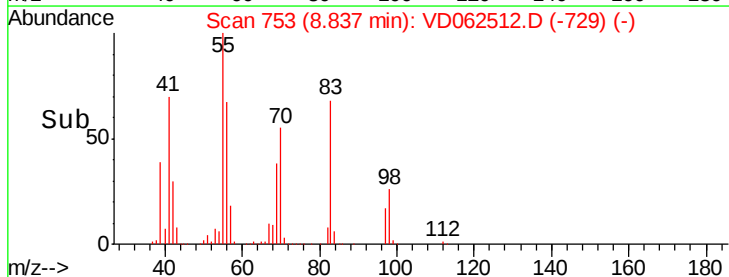
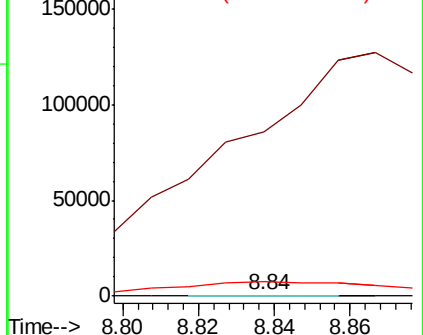
Acq: 22 May 2019 19:29

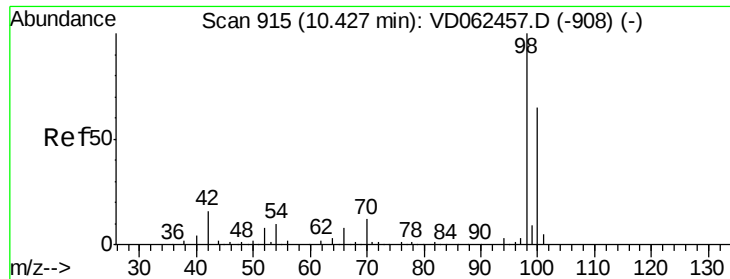
Tgt Ion: 88 Resp: 198

Ion	Ratio	Lower	Upper
88	100		
43	25566.6	23.4	35.0#
58	2309.6	44.0	66.0#



Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

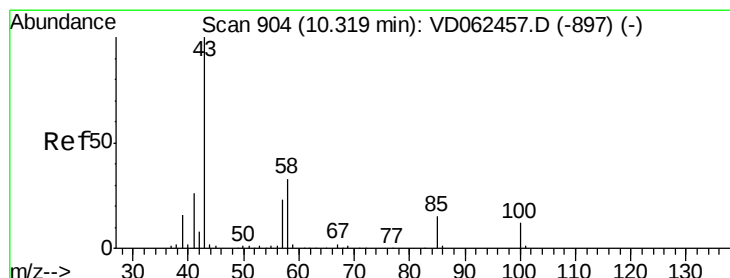
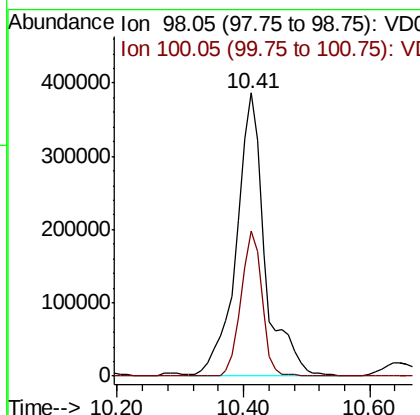
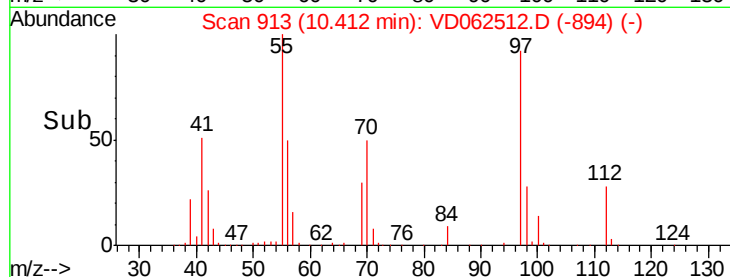
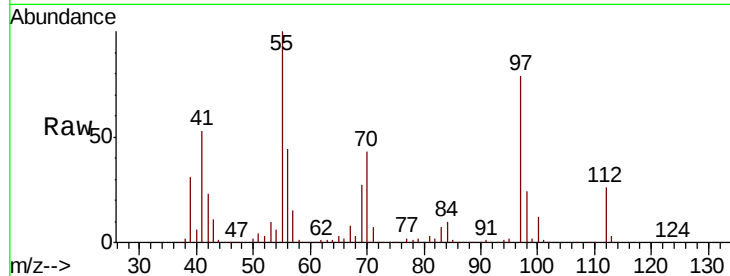




#50
Toluene-d8
Concen: 69.380 ug/l
RT: 10.41 min Scan# 913
Delta R.T. -0.02 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

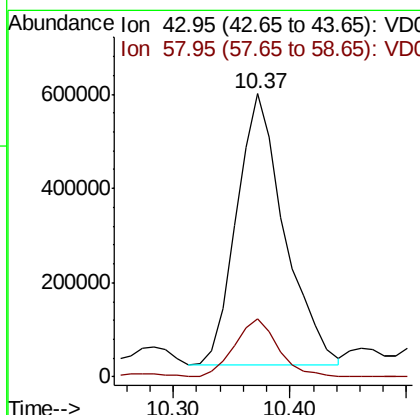
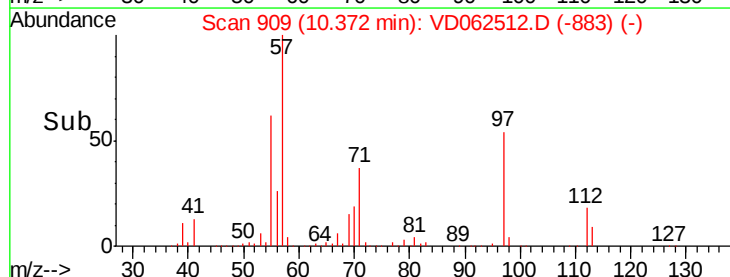
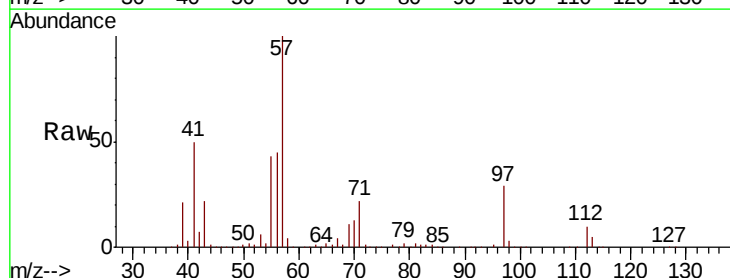
Instrument :
MSVOA_D
ClientSampled :

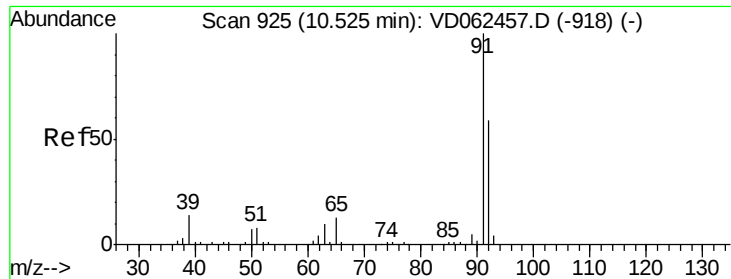
Tot Ion: 98 Resp: 1193454
Ion Ratio Lower Upper
98 100
100 51.5 53.8 80.8#



#51
4-Methyl-2-Pentanone
Concen: 575.114 ug/l
RT: 10.37 min Scan# 909
Delta R.T. 0.05 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

Tgt Ion: 43 Resp: 1631143
Ion Ratio Lower Upper
43 100
58 20.6 30.4 45.6#





#52

Toluene

Concen: 11.220 ug/l

RT: 10.50 min Scan# 922

Delta R.T. -0.03 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

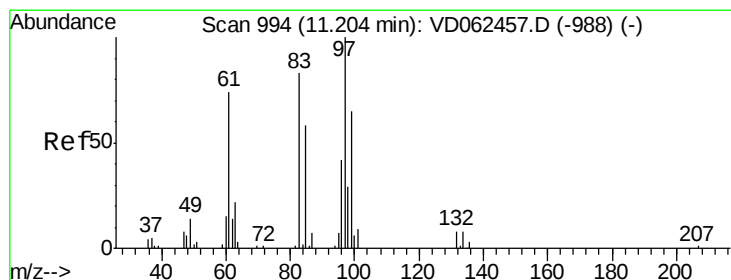
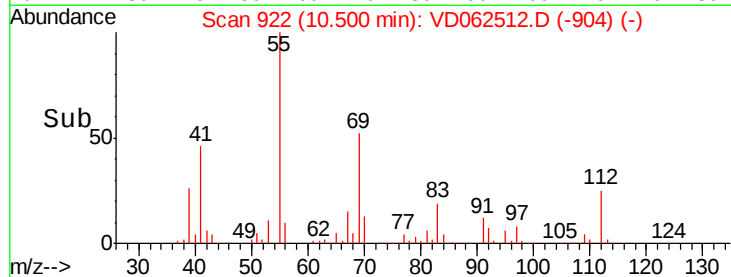
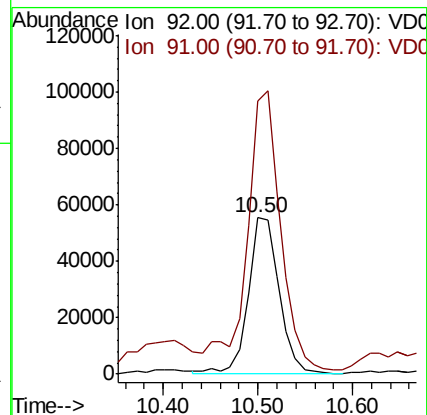
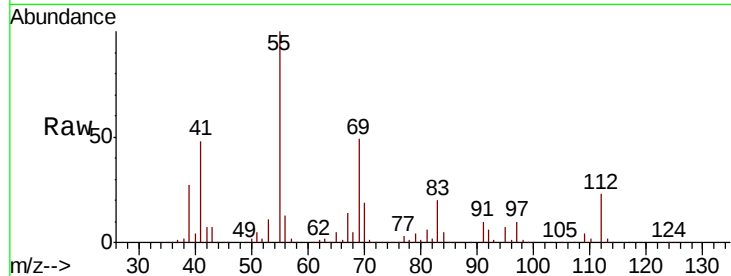
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 92 Resp: 125513

Ion Ratio Lower Upper

92 100

91 175.2 136.6 204.8



#55

1,1,2-Trichloroethane

Concen: 790.058 ug/l

RT: 11.11 min Scan# 984

Delta R.T. -0.09 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Tgt Ion: 97 Resp: 2995329

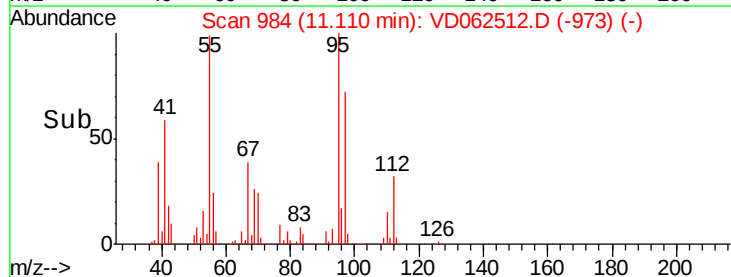
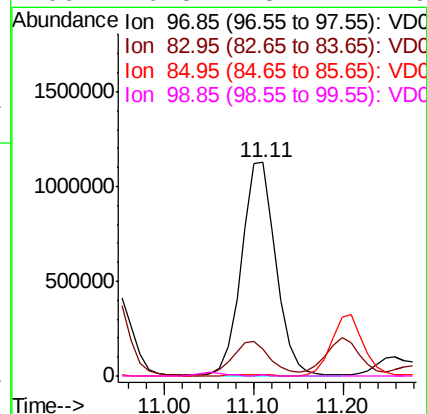
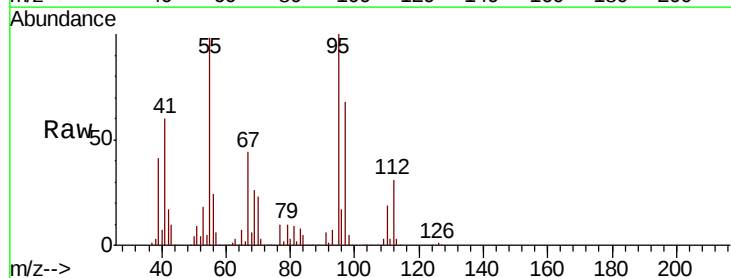
Ion Ratio Lower Upper

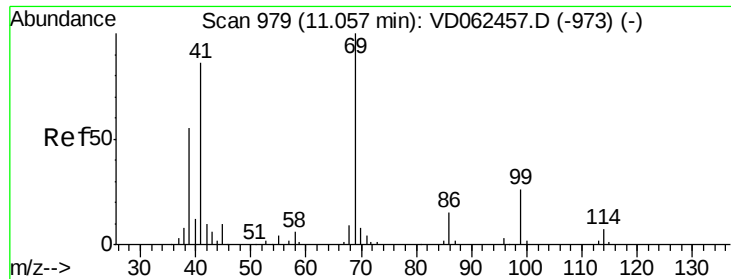
97 100

83 12.3 65.7 98.5#

85 0.6 45.6 68.4#

99 0.3 48.4 72.6#





#56

Ethyl methacrylate

Concen: 426.580 ug/l

RT: 11.10 min Scan# 983

Delta R.T. 0.04 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

MSVOA_D

ClientSampled :

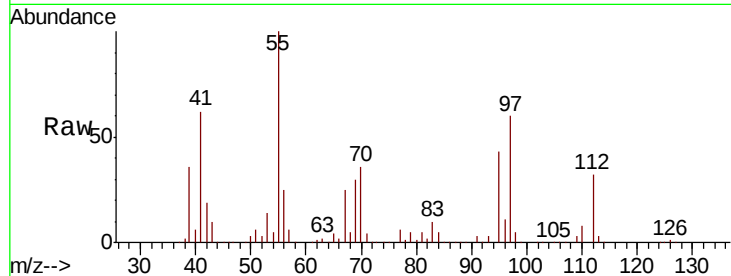
Tot Ion: 69 Resp: 1728922

Ion Ratio Lower Upper

69 100

41 209.7 56.3 84.5#

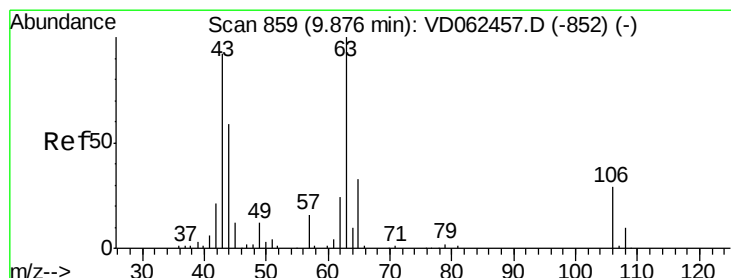
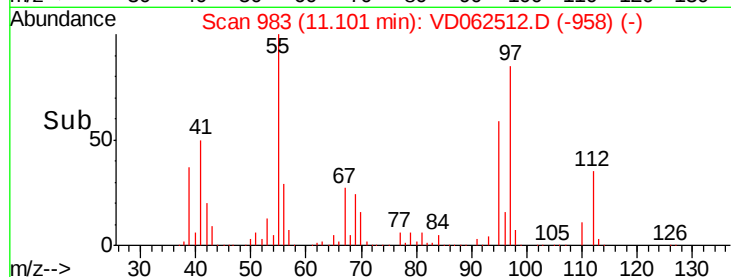
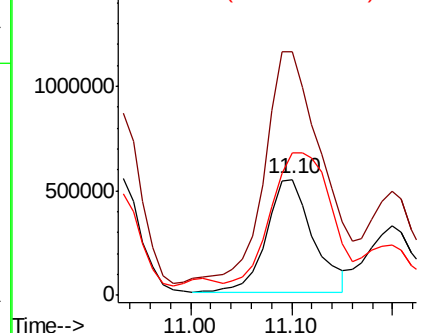
39 123.0 29.4 44.2#



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: 29.858 ug/l

RT: 9.96 min Scan# 867

Delta R.T. 0.08 min

Lab File: VD062512.D

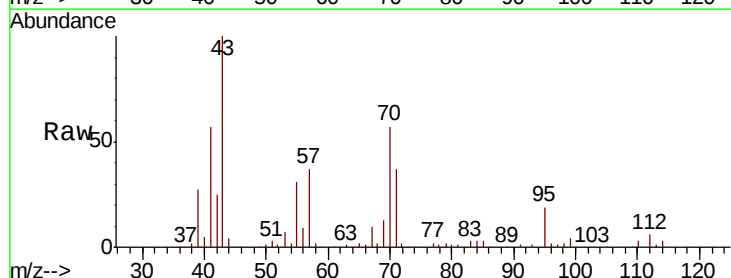
Acq: 22 May 2019 19:29

Tgt Ion: 63 Resp: 62139

Ion Ratio Lower Upper

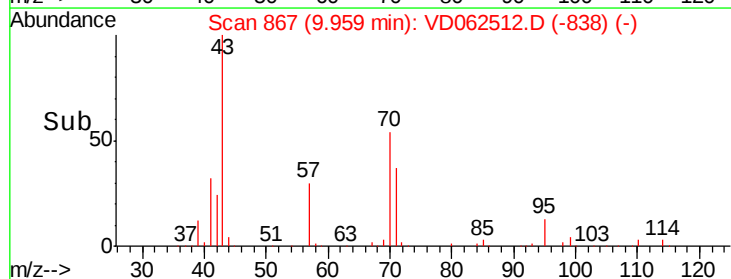
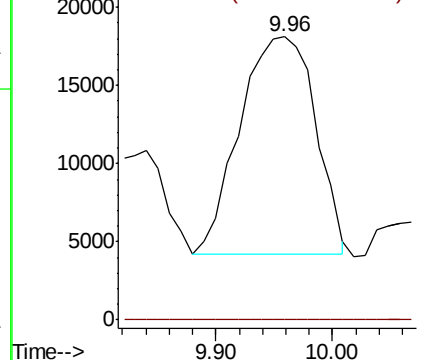
63 100

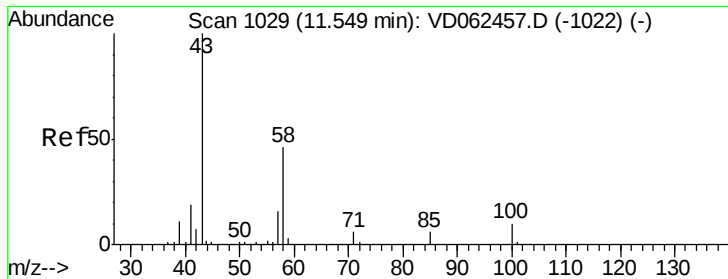
106 0.0 22.6 34.0#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): VDC





#59

2-Hexanone

Concen: 1980.583 ug/l

RT: 11.49 min Scan# 1023

Delta R.T. -0.05 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

MSVOA_D

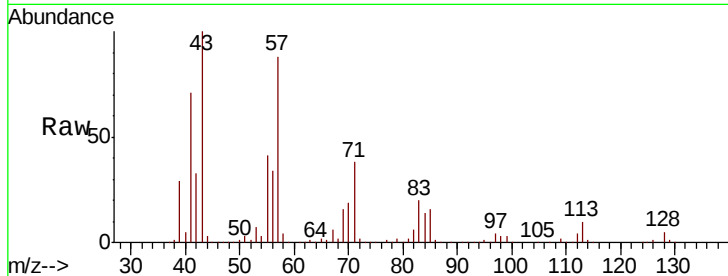
ClientSampleId :

Tot Ion: 43 Resp: 4082575

Ion Ratio Lower Upper

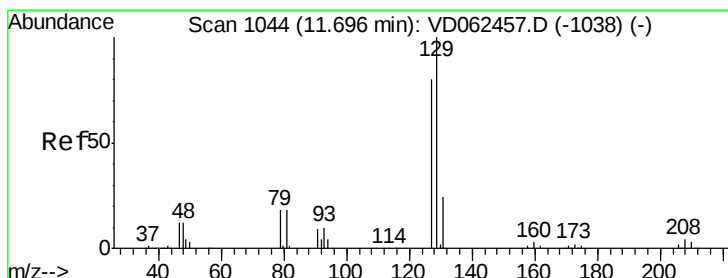
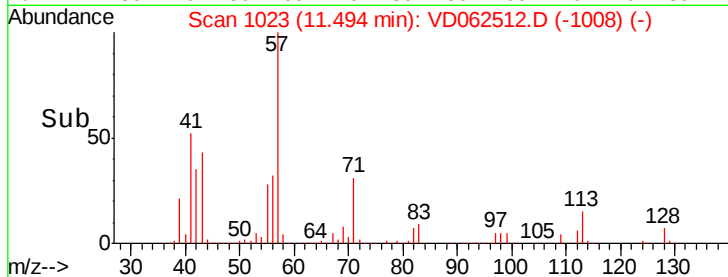
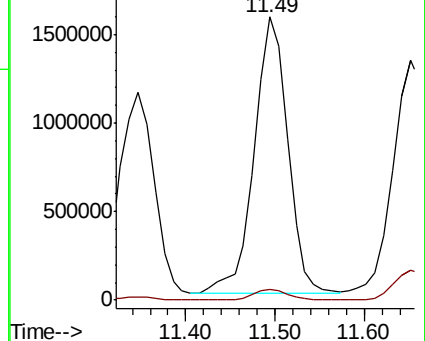
43 100

58 3.8 25.4 76.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#60

Dibromochloromethane

Concen: 2.508 ug/l

RT: 11.65 min Scan# 1039

Delta R.T. -0.04 min

Lab File: VD062512.D

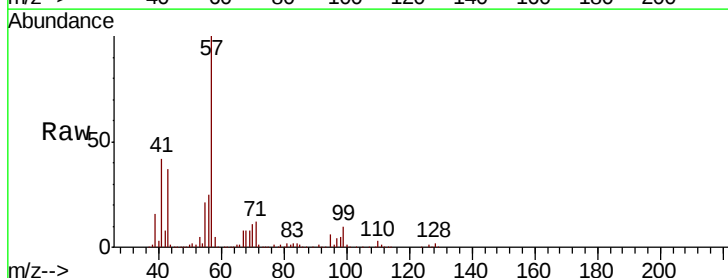
Acq: 22 May 2019 19:29

Tgt Ion:129 Resp: 18260

Ion Ratio Lower Upper

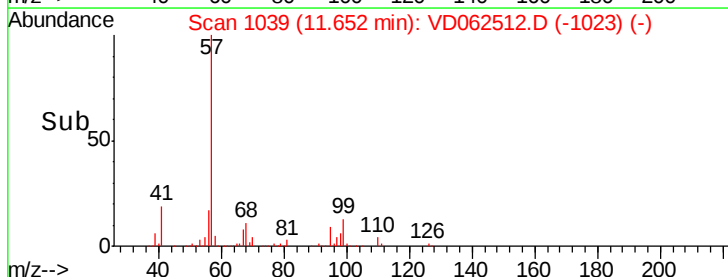
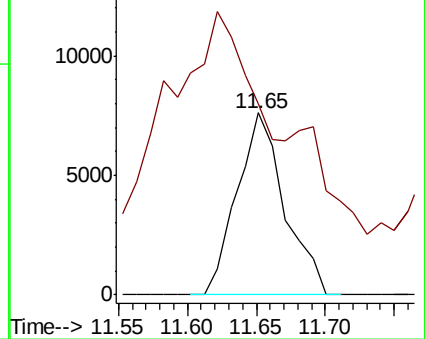
129 100

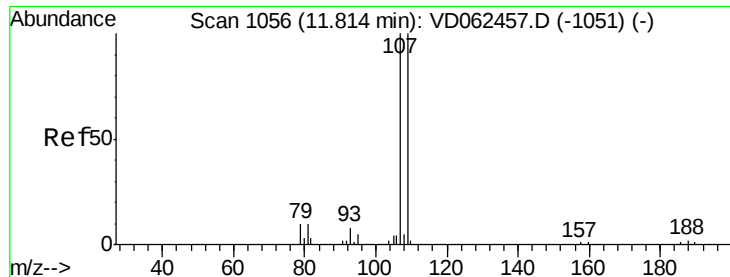
127 104.9 38.0 113.9



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

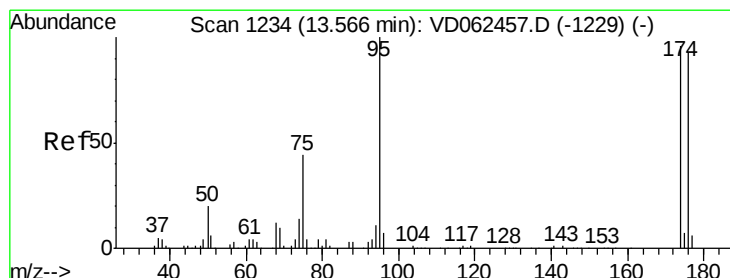
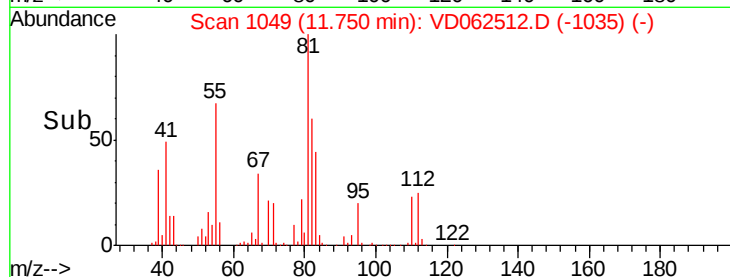
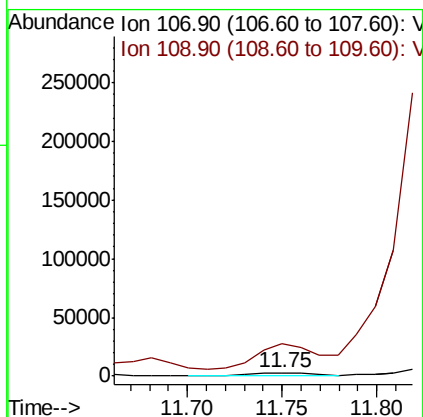
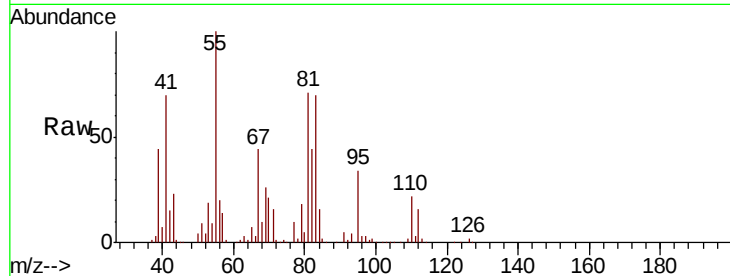




#61
 1,2-Dibromoethane
 Concen: 1.280 ug/l
 RT: 11.75 min Scan# 1049
 Delta R.T. -0.06 min
 Lab File: VD062512.D
 Acq: 22 May 2019 19:29

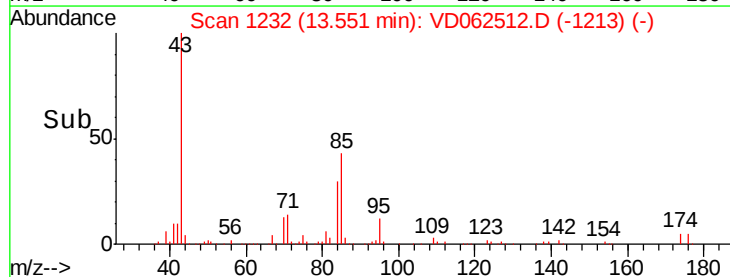
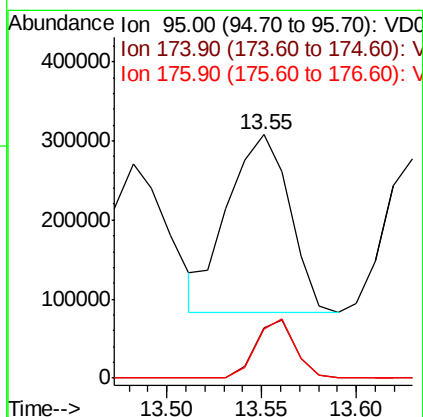
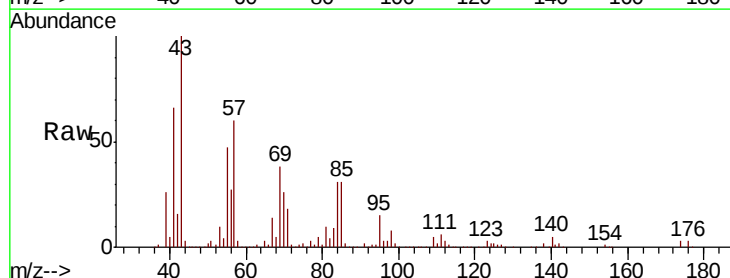
Instrument :
 MSVOA_D
 ClientSampleId :

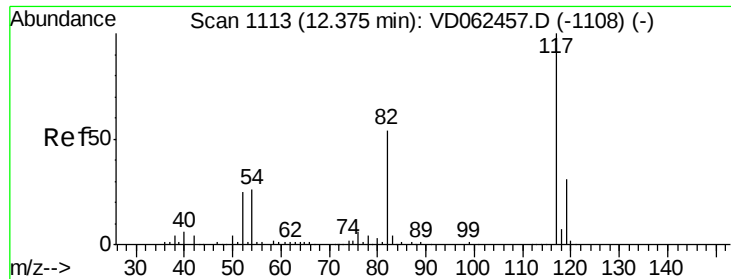
Tot Ion: 107 Resp: 5982
 Ion Ratio Lower Upper
 107 100
 109 912.8 78.3 117.5#



#62
 4-Bromofluorobenzene
 Concen: 67.150 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. -0.02 min
 Lab File: VD062512.D
 Acq: 22 May 2019 19:29

Tgt Ion: 95 Resp: 505279
 Ion Ratio Lower Upper
 95 100
 174 20.5 0.0 181.8
 176 20.4 0.0 174.4

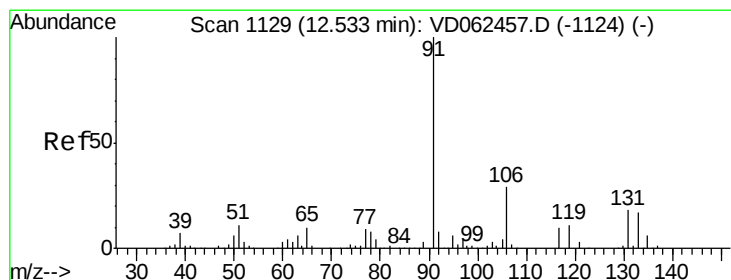
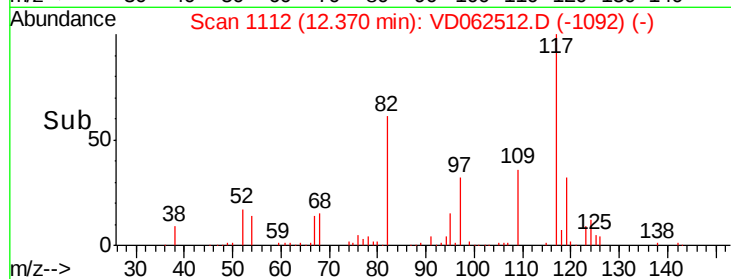
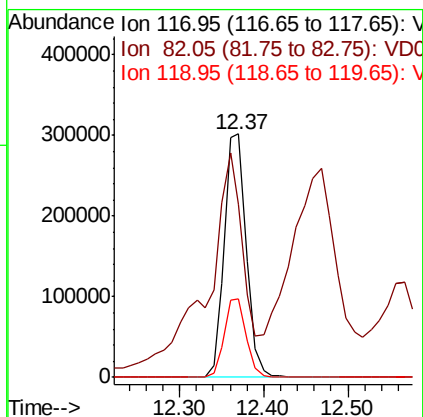
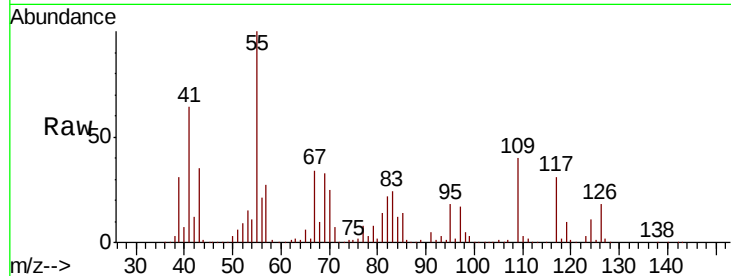




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

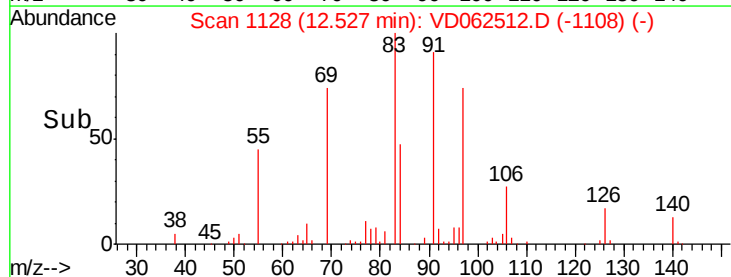
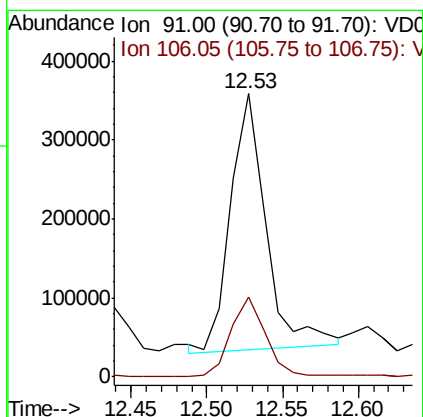
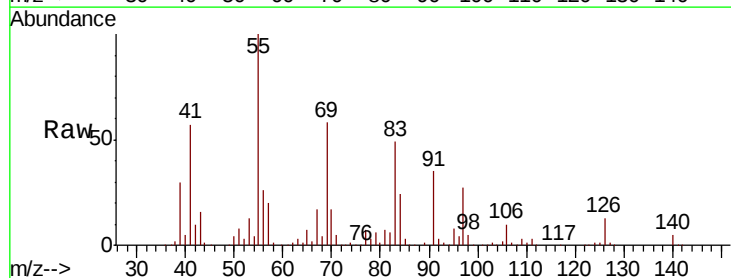
Instrument :
MSVOA_D
ClientSampleId :

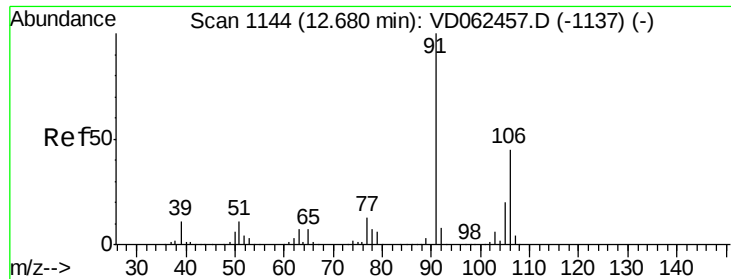
Tot Ion:117 Resp: 547310
Ion Ratio Lower Upper
117 100
82 71.2 36.2 54.2#
119 32.2 26.2 39.4



#67
Ethyl Benzene
Concen: 29.291 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. -0.01 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

Tgt Ion: 91 Resp: 531011
Ion Ratio Lower Upper
91 100
106 28.4 24.7 37.1

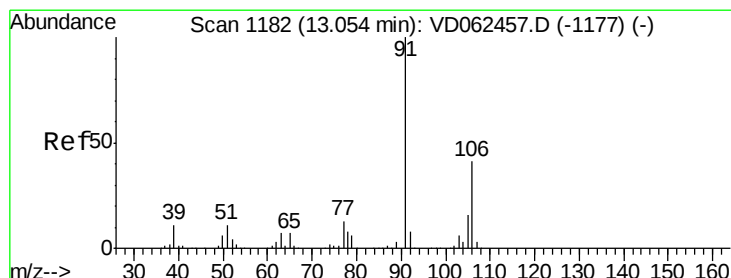
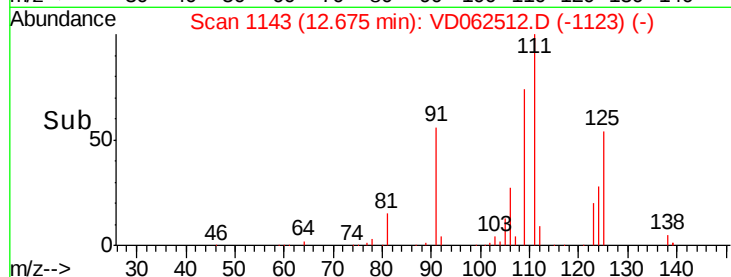
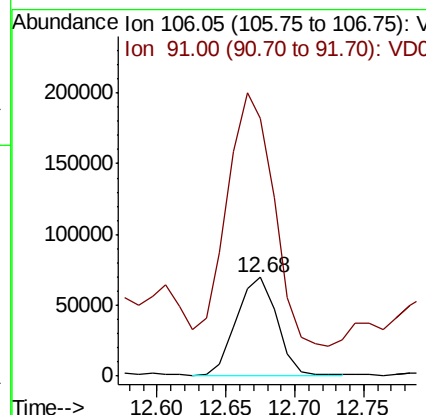
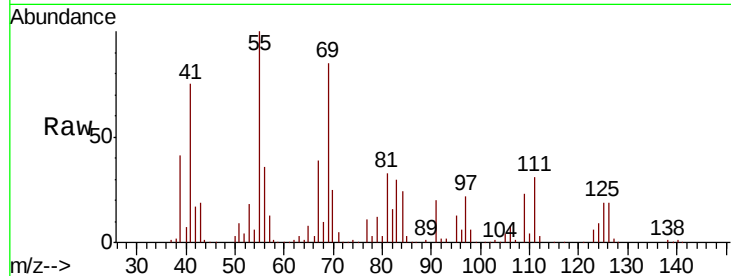




#68
m/p-Xylenes
Concen: 22.142 ug/l
RT: 12.68 min Scan# 1143
Delta R.T. -0.01 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

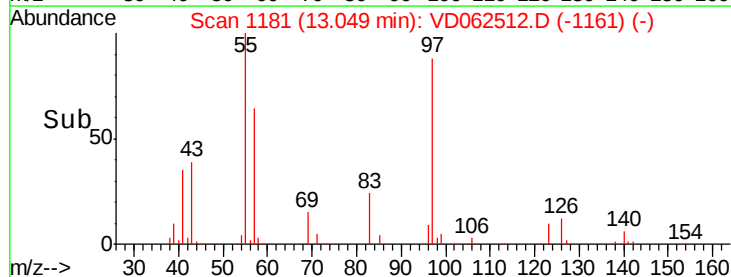
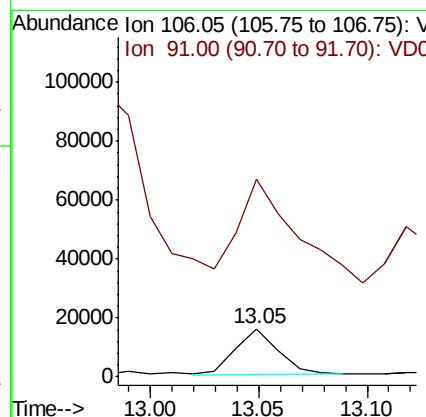
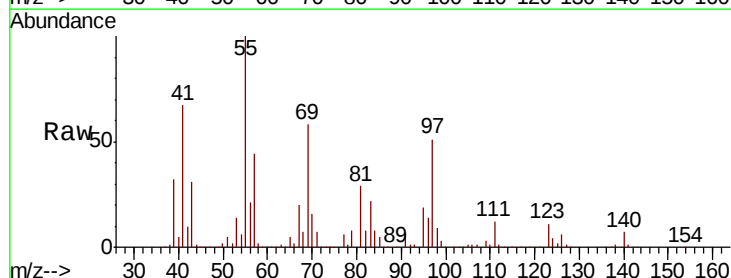
Instrument :
MSVOA_D
ClientSampleId :

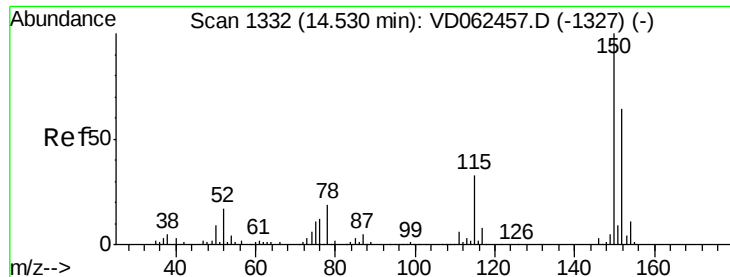
Tot Ion:106 Resp: 144089
Ion Ratio Lower Upper
106 100
91 260.6 164.0 246.0#



#69
o-Xylene
Concen: 3.548 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.01 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

Tgt Ion:106 Resp: 21783
Ion Ratio Lower Upper
106 100
91 408.2 106.7 319.9#



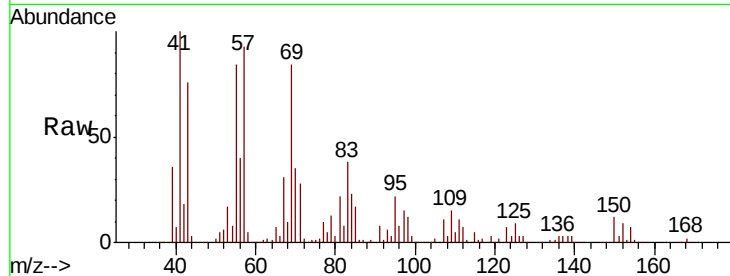


#72

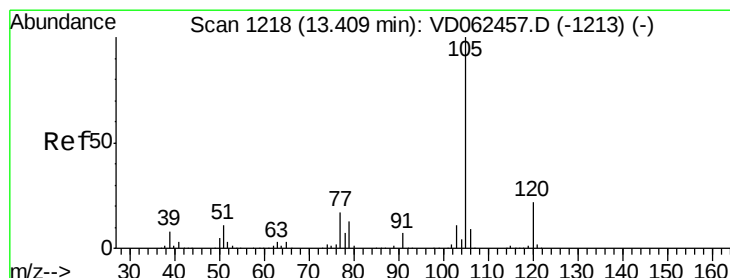
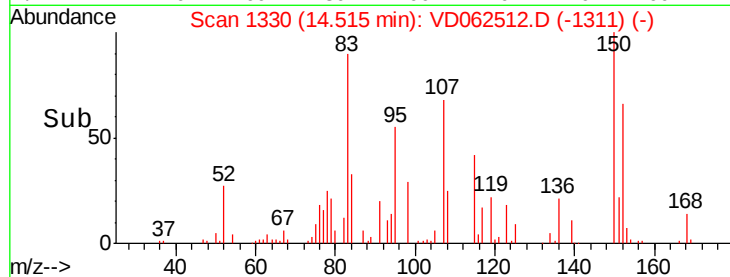
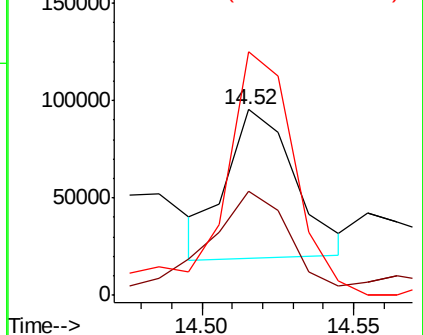
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.02 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	56.0	30.9	92.7
150	131.0	0.0	314.8



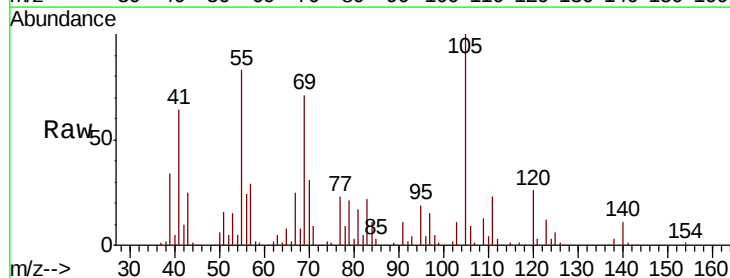
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



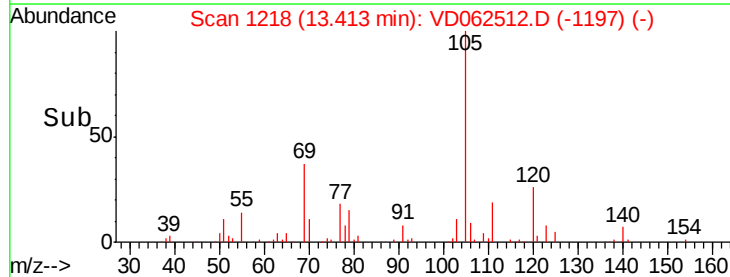
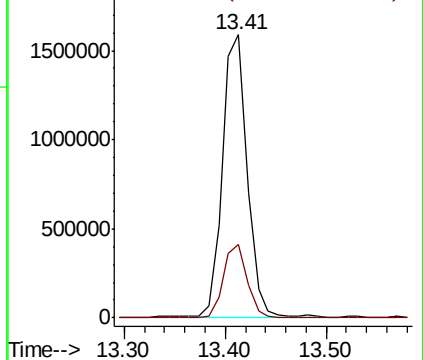
#73

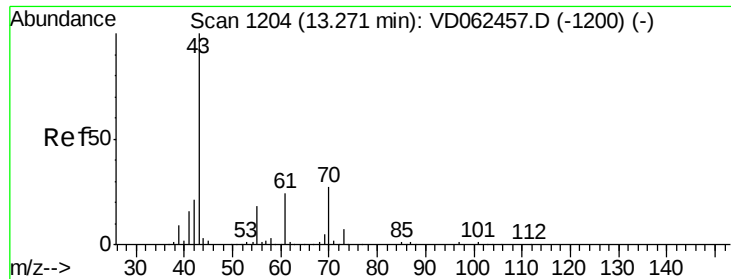
Isopropylbenzene
Concen: 357.321 ug/l
RT: 13.41 min Scan# 1218
Delta R.T. 0.00 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.1	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: 1517.146 ug/l

RT: 13.24 min Scan# 1200

Delta R.T. -0.03 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

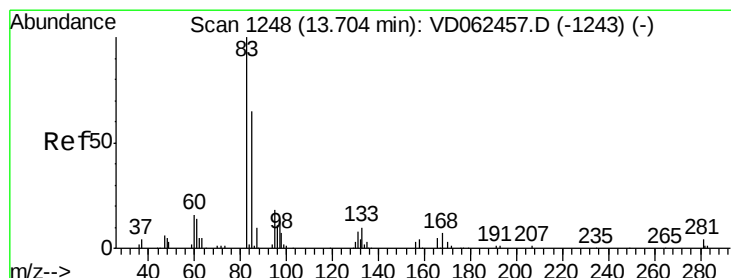
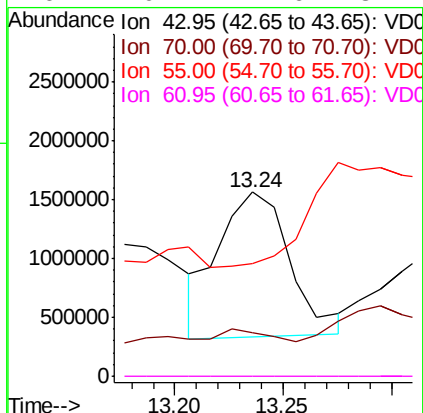
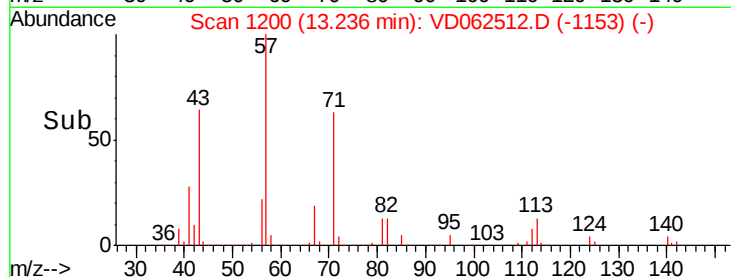
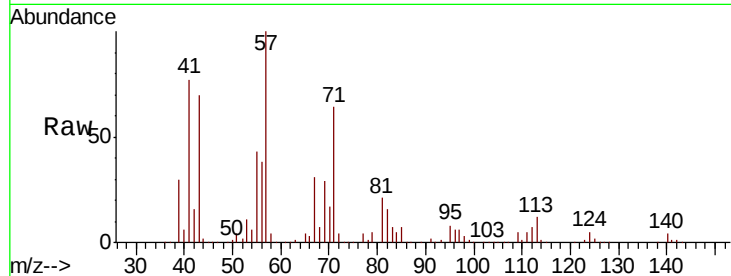
Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 43 Resp: 2823102

Ion	Ratio	Lower	Upper
43	100		
70	23.6	24.2	36.4#
55	61.3	16.0	24.0#
61	0.2	21.6	32.4#



#75

1,1,2,2-Tetrachloroethane

Concen: 367.067 ug/l

RT: 13.70 min Scan# 1247

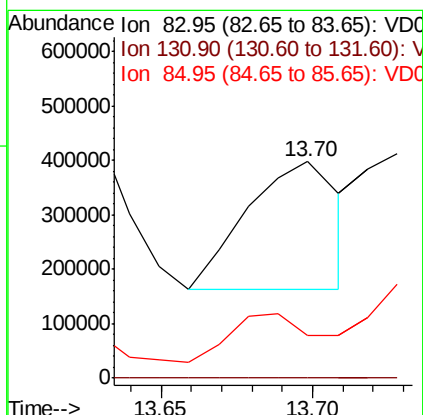
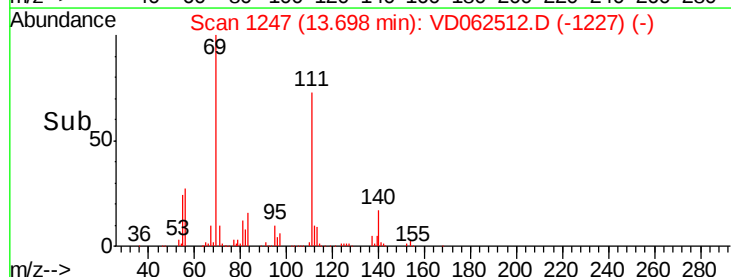
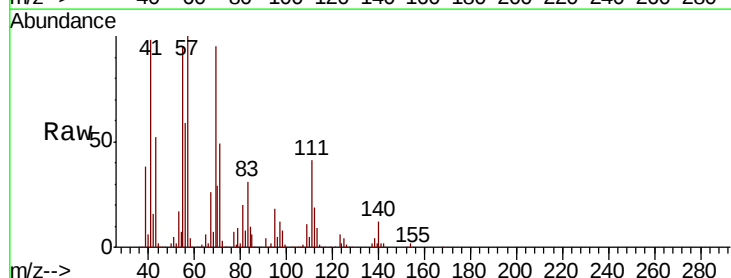
Delta R.T. -0.01 min

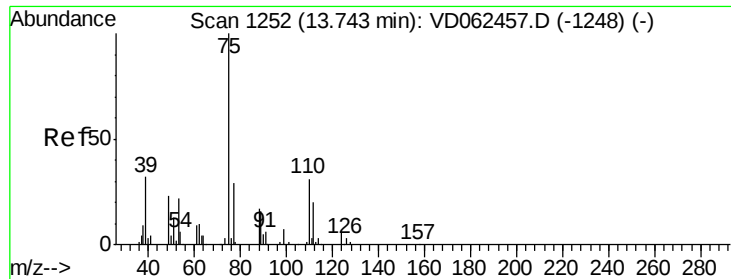
Lab File: VD062512.D

Acq: 22 May 2019 19:29

Tgt Ion: 83 Resp: 498921

Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.0	14.9#
85	19.9	32.6	97.7#





#76

1,2,3-Trichloropropane

Concen: 1.050 ug/l

RT: 13.73 min Scan# 1250

Delta R.T. -0.02 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

MSVOA_D

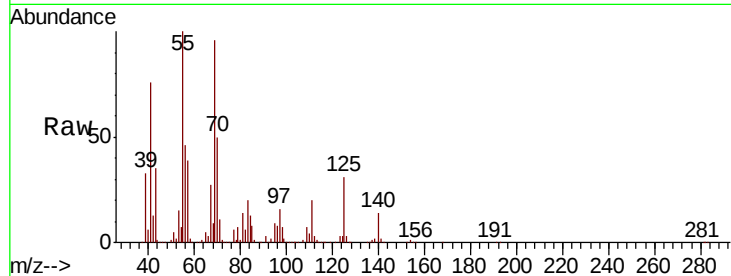
ClientSampleID :

Tot Ion: 75 Resp: 1478

Ion Ratio Lower Upper

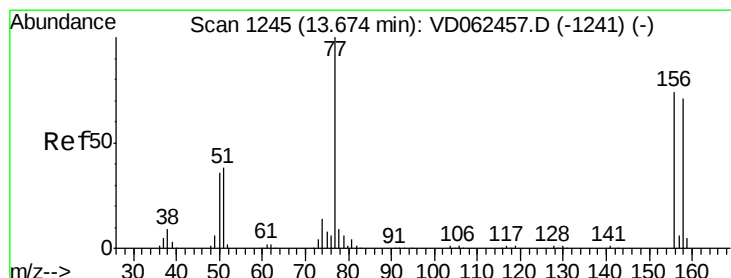
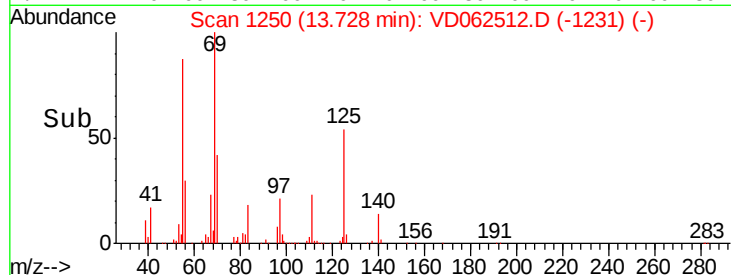
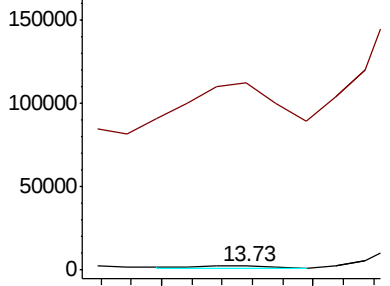
75 100

77 4894.5 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: 2.578 ug/l

RT: 13.61 min Scan# 1238

Delta R.T. -0.06 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

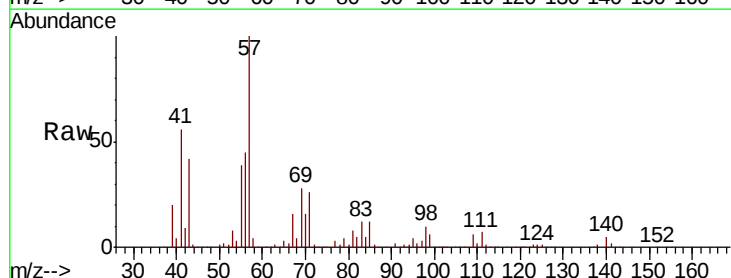
Tgt Ion: 156 Resp: 5509

Ion Ratio Lower Upper

156 100

77 3823.1 53.1 159.4#

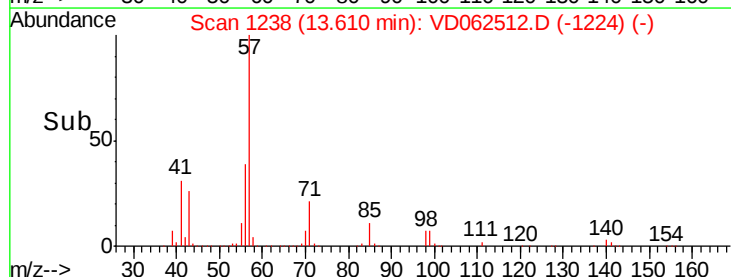
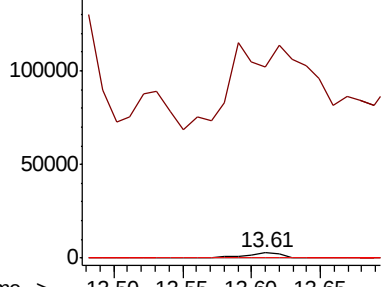
158 0.0 49.4 148.0#

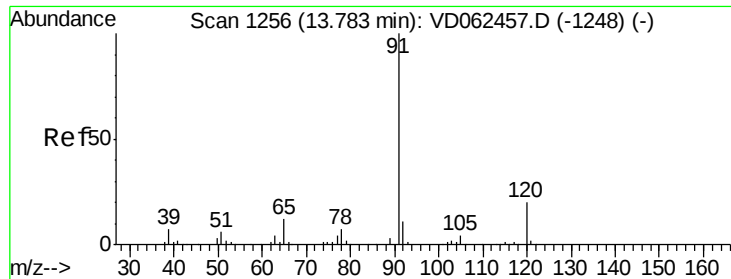


Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): VDC

Ion 157.85 (157.55 to 158.55): V





#78

n-propylbenzene

Concen: 353.955 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. -0.01 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

MSVOA_D

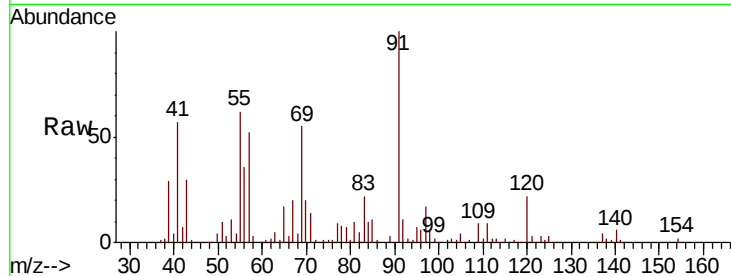
ClientSampleId :

Tot Ion: 91 Resp: 3088973

Ion Ratio Lower Upper

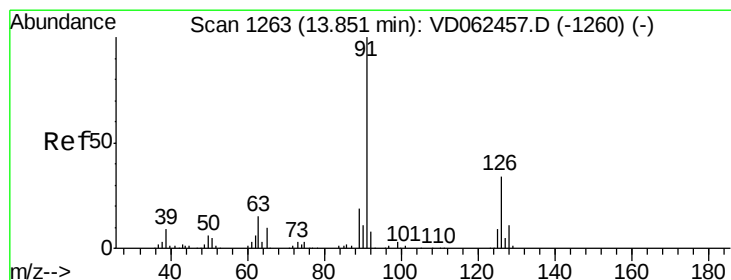
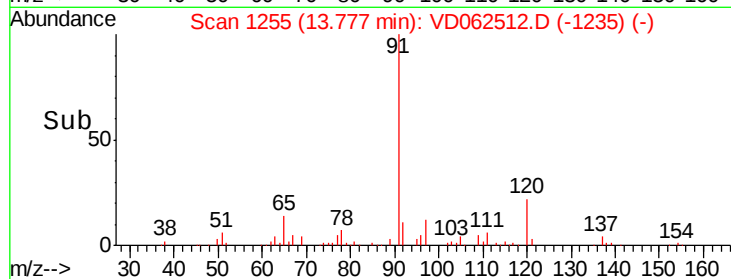
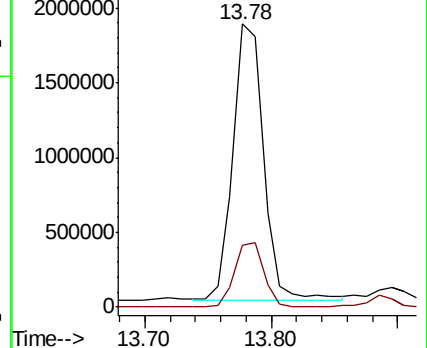
91 100

120 21.8 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: 30.586 ug/l

RT: 13.90 min Scan# 1267

Delta R.T. 0.04 min

Lab File: VD062512.D

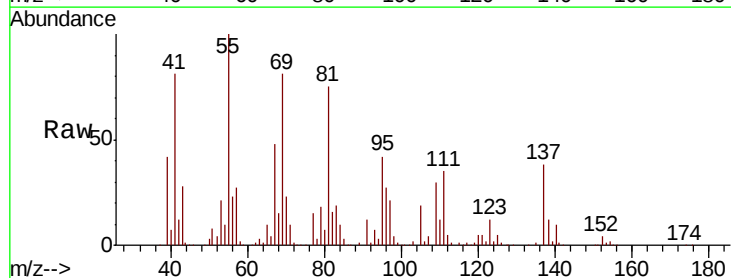
Acq: 22 May 2019 19:29

Tgt Ion: 91 Resp: 161985

Ion Ratio Lower Upper

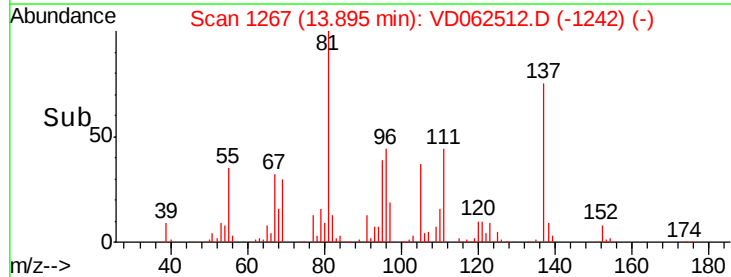
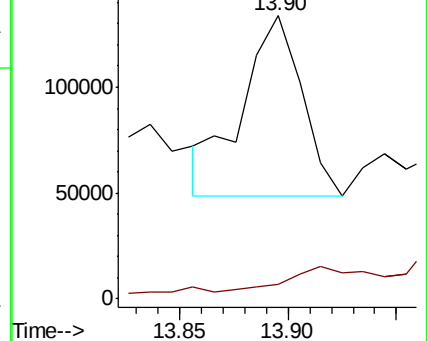
91 100

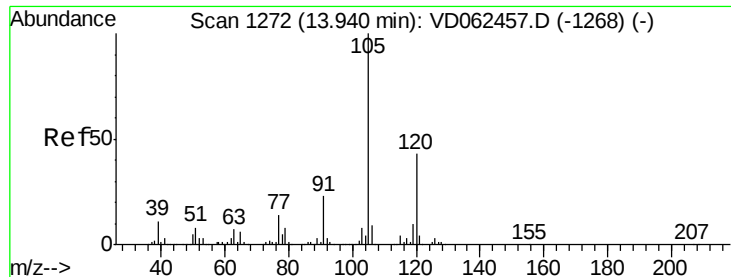
126 5.3 18.6 55.8#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V

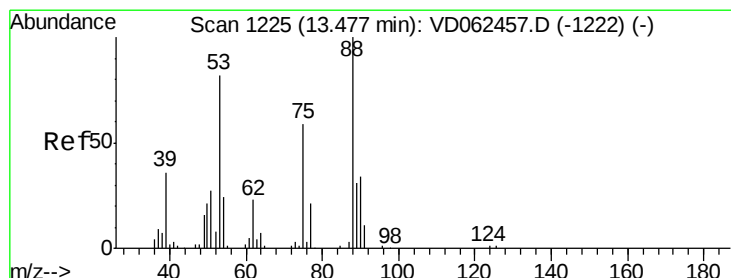
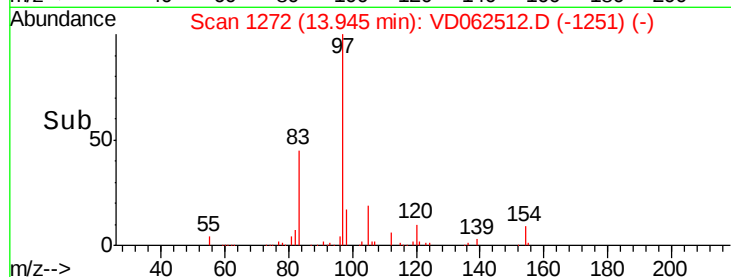
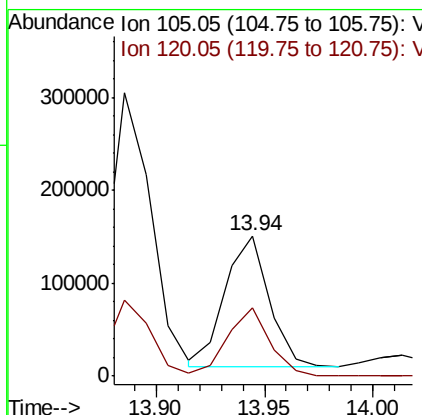
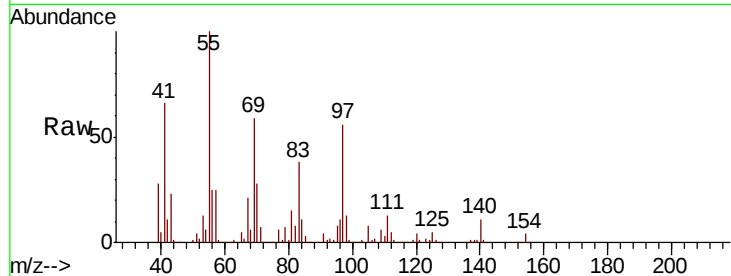




#80
 1,3,5-Trimethylbenzene
 Concen: 30.670 ug/l
 RT: 13.94 min Scan# 1272
 Delta R.T. 0.00 min
 Lab File: VD062512.D
 Acq: 22 May 2019 19:29

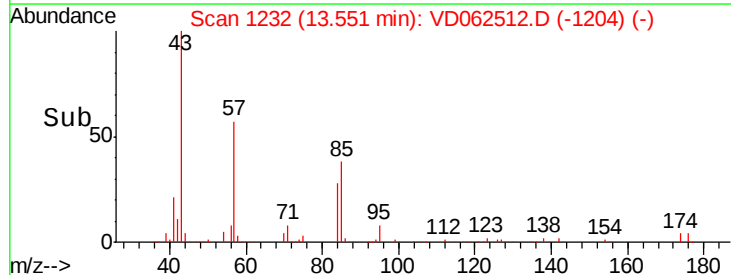
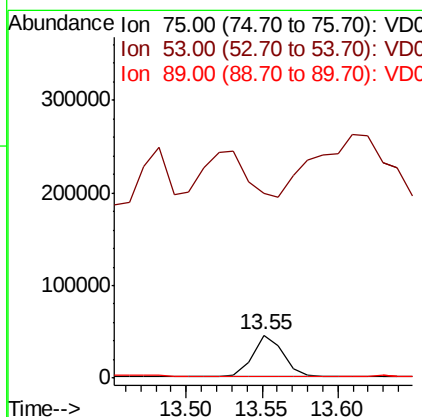
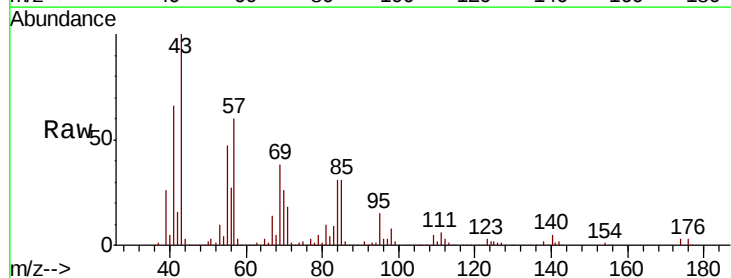
Instrument :
 MSVOA_D
 ClientSampleId :

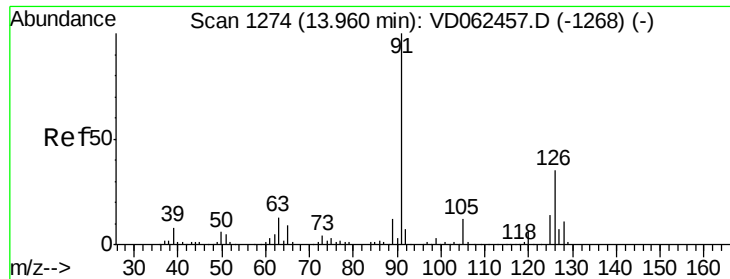
Tot Ion:105 Resp: 200074
 Ion Ratio Lower Upper
 105 100
 120 48.5 24.0 72.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 161.363 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. 0.07 min
 Lab File: VD062512.D
 Acq: 22 May 2019 19:29

Tgt Ion: 75 Resp: 64070
 Ion Ratio Lower Upper
 75 100
 53 427.6 65.8 98.8#
 89 3.2 35.0 52.6#

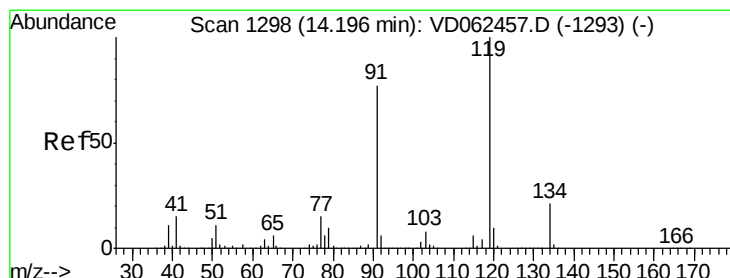
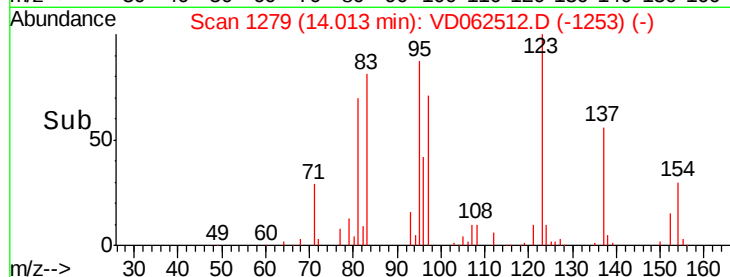
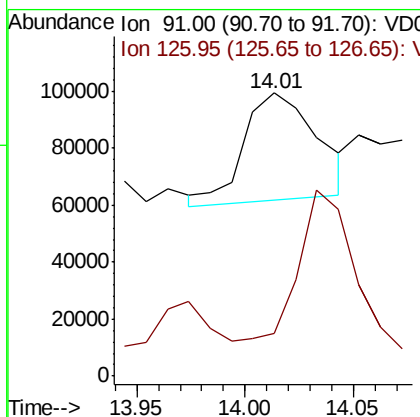
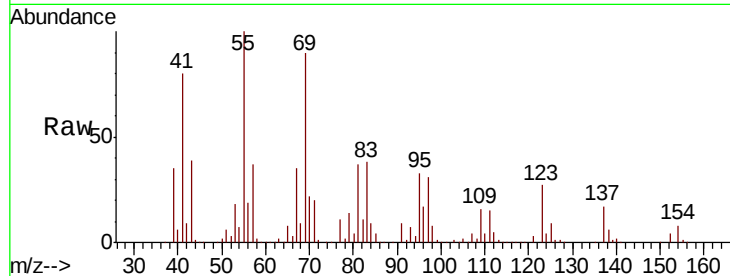




#82
4-Chlorotoluene
Concen: 14.462 ug/l
RT: 14.01 min Scan# 1279
Delta R.T. 0.05 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

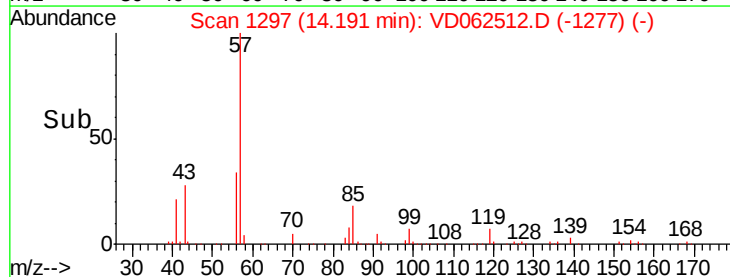
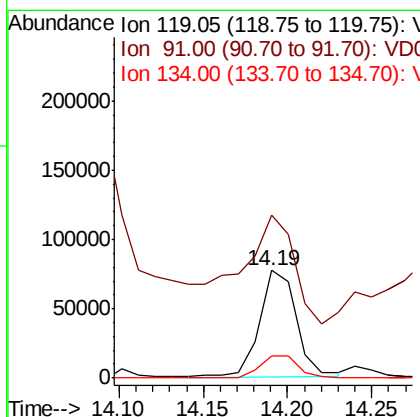
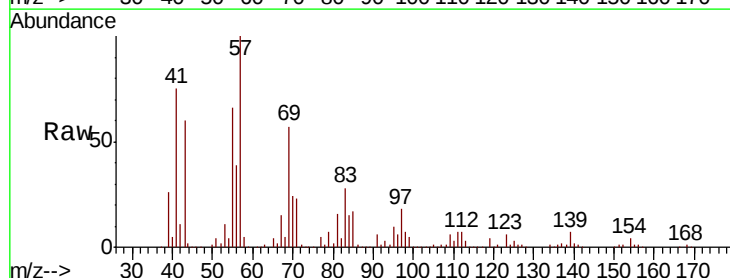
Instrument :
MSVOA_D
ClientSampled :

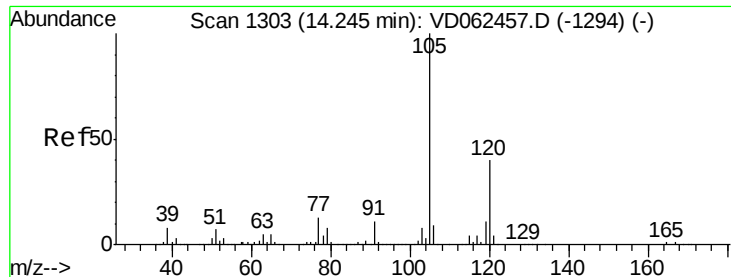
Tot Ion: 91 Resp: 88208
Ion Ratio Lower Upper
91 100
126 15.0 19.1 57.5#



#83
tert-Butylbenzene
Concen: 16.136 ug/l
RT: 14.19 min Scan# 1297
Delta R.T. -0.01 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

Tgt Ion: 119 Resp: 116759
Ion Ratio Lower Upper
119 100
91 151.8 34.2 102.6#
134 20.1 12.0 36.0





#84

1,2,4-Trimethylbenzene

Concen: 11.896 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. -0.01 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

MSVOA_D

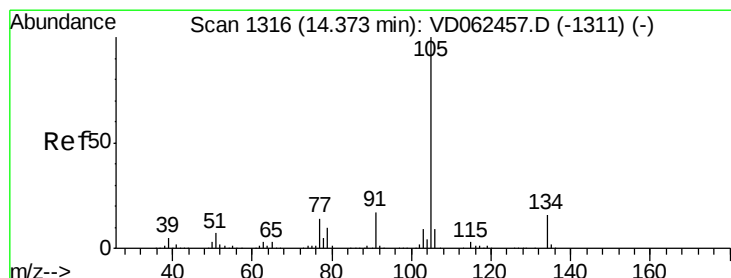
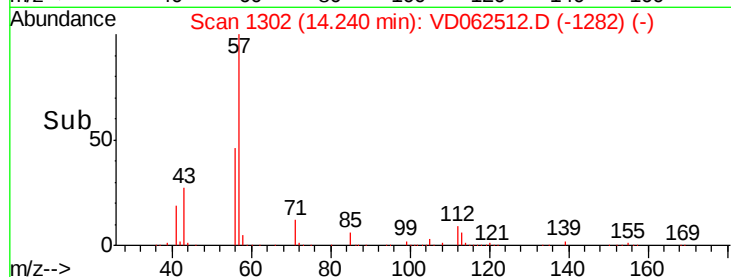
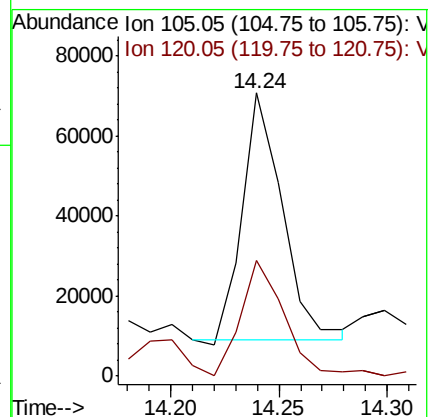
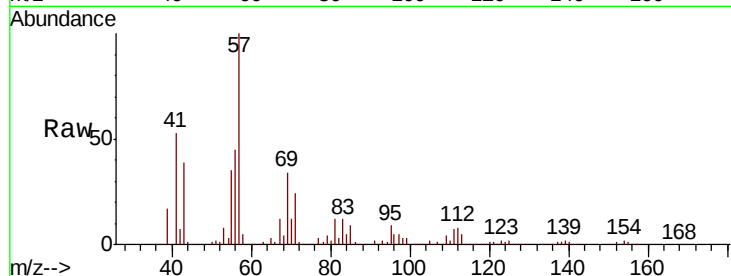
ClientSampleId :

Tot Ion:105 Resp: 79520

Ion Ratio Lower Upper

105 100

120 40.8 23.1 69.2



#85

sec-Butylbenzene

Concen: 85.258 ug/l

RT: 14.37 min Scan# 1315

Delta R.T. -0.01 min

Lab File: VD062512.D

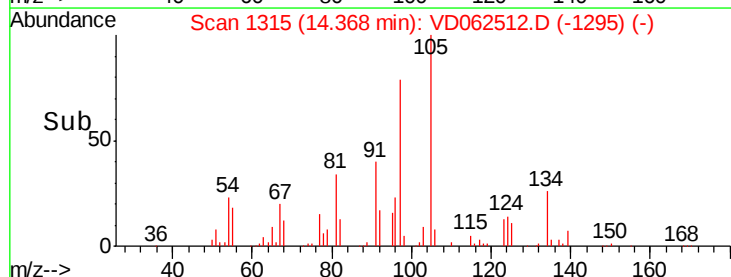
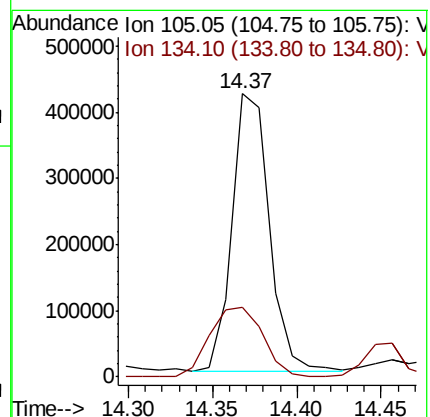
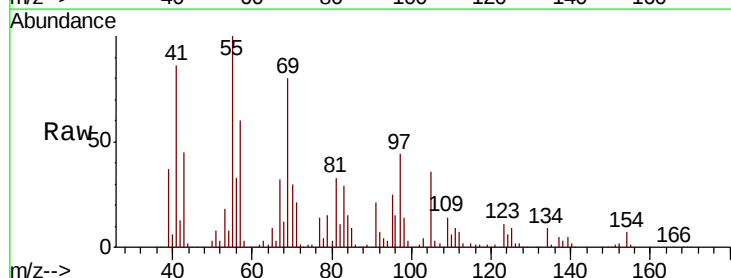
Acq: 22 May 2019 19:29

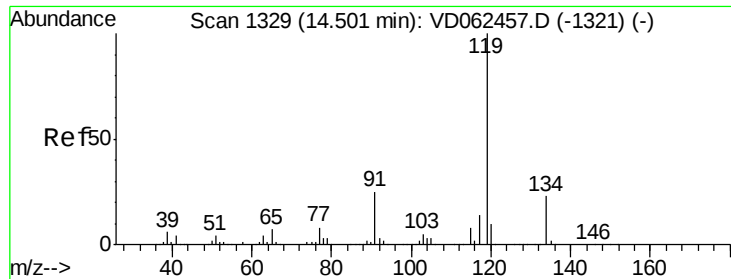
Tgt Ion:105 Resp: 643280

Ion Ratio Lower Upper

105 100

134 24.7 8.9 26.7

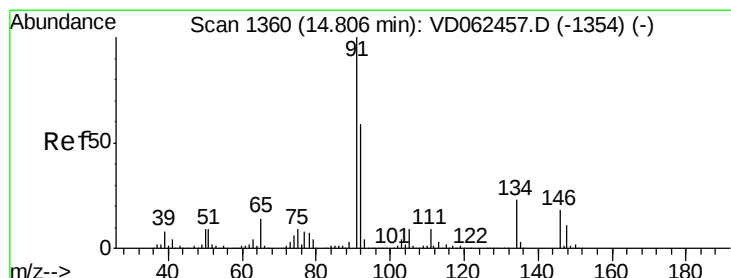
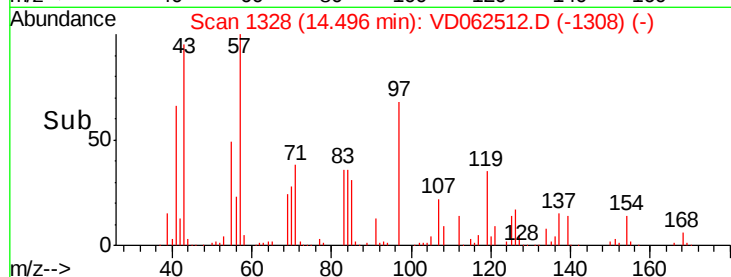
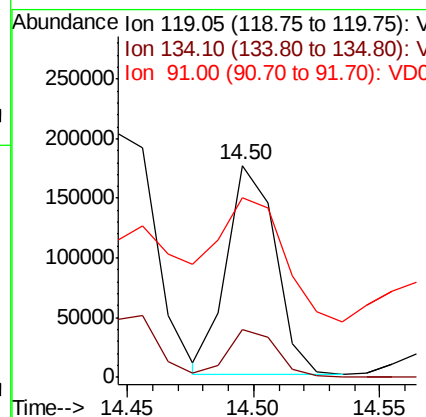
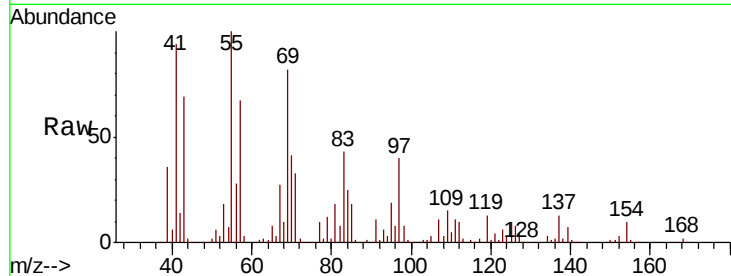




#86
p-Isopropyltoluene
Concen: 34.445 ug/l
RT: 14.50 min Scan# 1328
Delta R.T. -0.01 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

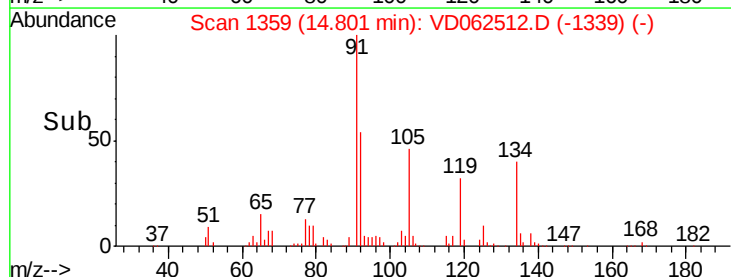
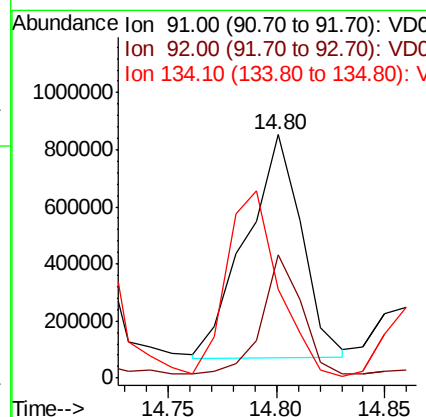
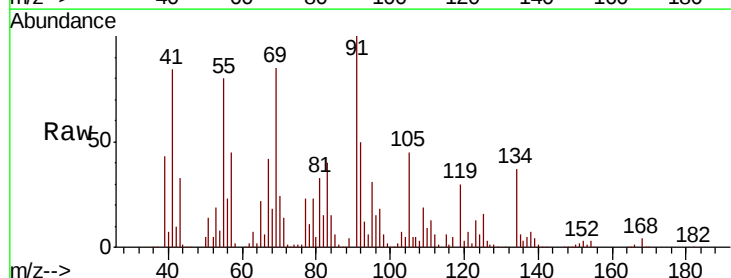
Instrument :
MSVOA_D
ClientSampled :

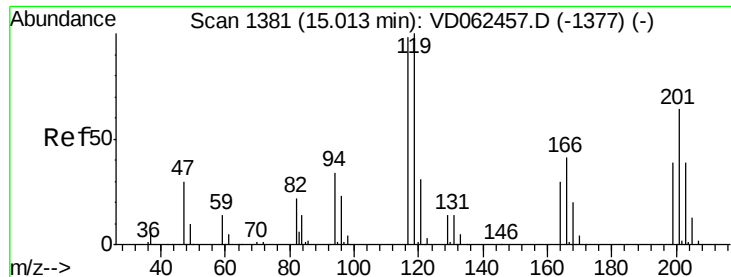
Tot Ion:119 Resp: 235517
Ion Ratio Lower Upper
119 100
134 22.6 12.8 38.3
91 84.8 10.7 32.1#



#89
n-Butylbenzene
Concen: 210.324 ug/l
RT: 14.80 min Scan# 1359
Delta R.T. -0.01 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

Tgt Ion: 91 Resp: 1387889
Ion Ratio Lower Upper
91 100
92 50.5 30.3 91.0
134 36.7 14.5 43.6





#90

Hexachloroethane

Concen: 52.015 ug/l

RT: 14.98 min Scan# 1377

Delta R.T. -0.03 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

MSVOA_D

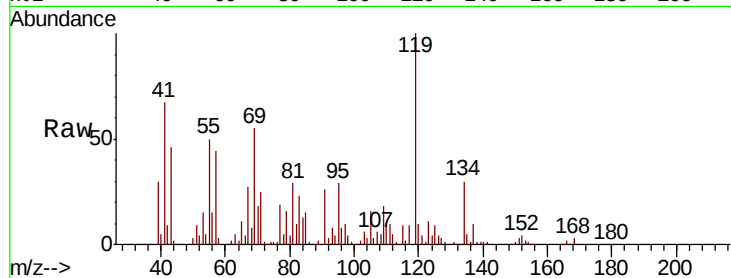
ClientSampleId :

Tot Ion:117 Resp: 98291

Ion Ratio Lower Upper

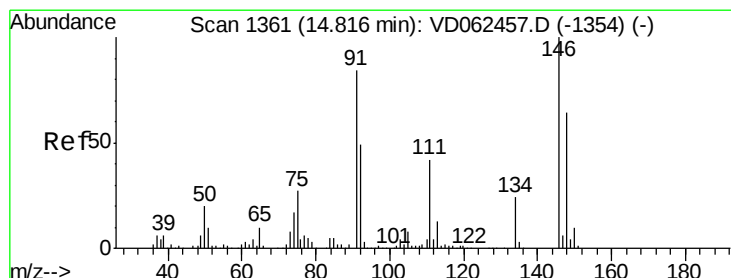
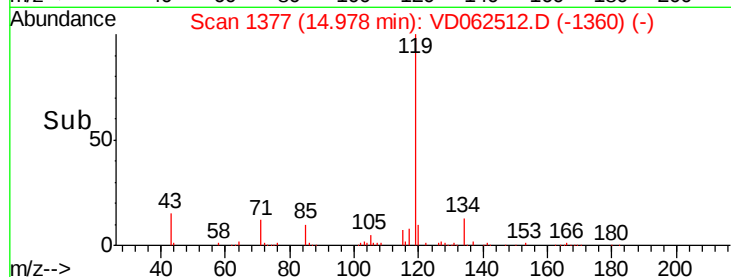
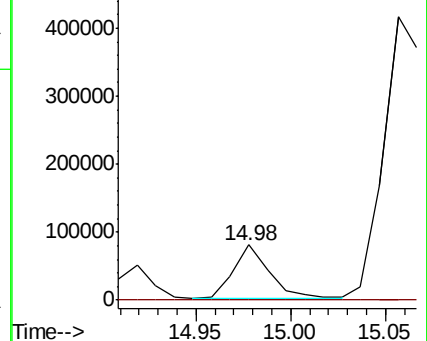
117 100

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: 1.701 ug/l

RT: 14.89 min Scan# 1368

Delta R.T. 0.07 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

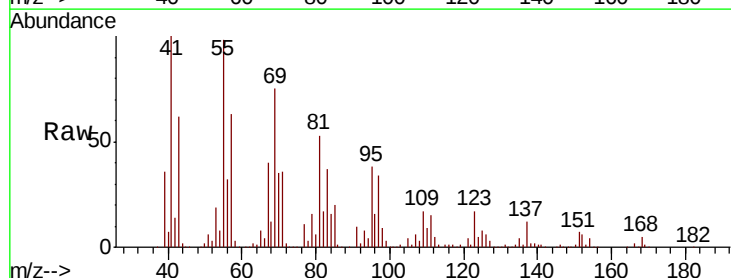
Tgt Ion:146 Resp: 5460

Ion Ratio Lower Upper

146 100

111 2759.8 20.0 59.9#

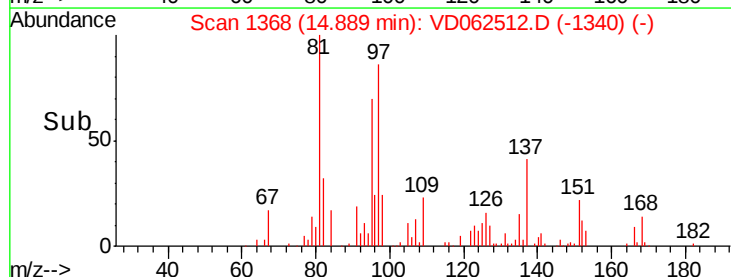
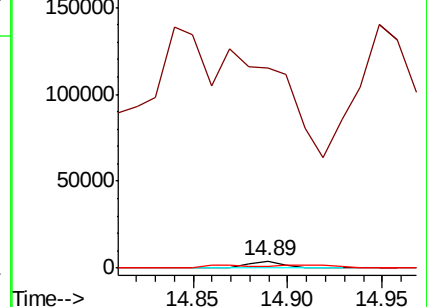
148 31.8 32.3 96.8#

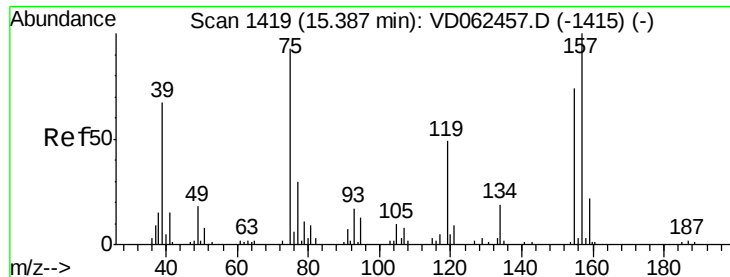


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 64.350 ug/l

RT: 15.42 min Scan# 1422

Delta R.T. 0.03 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

MSVOA_D

ClientSampled :

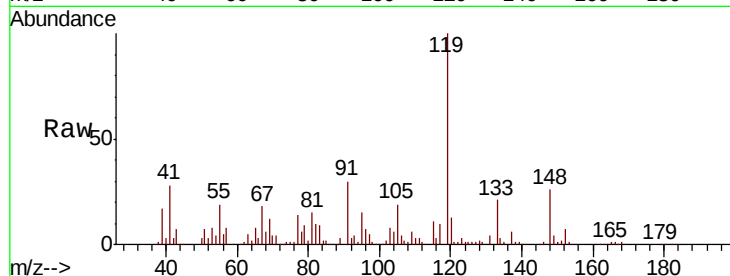
Tot Ion: 75 Resp: 16602

Ion Ratio Lower Upper

75 100

155 0.0 55.3 165.8#

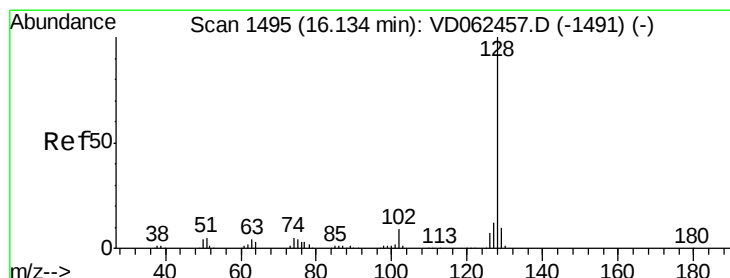
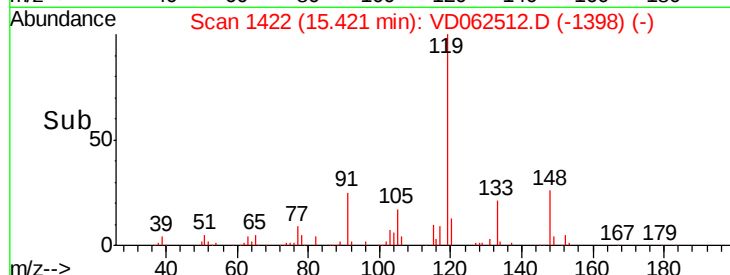
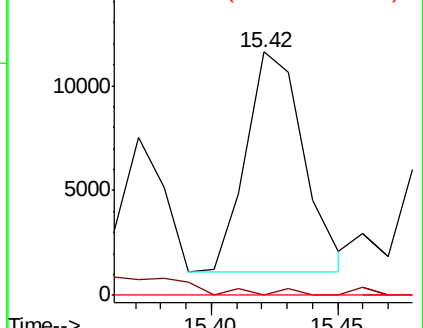
157 0.0 67.8 203.2#



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: 39.900 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. -0.02 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

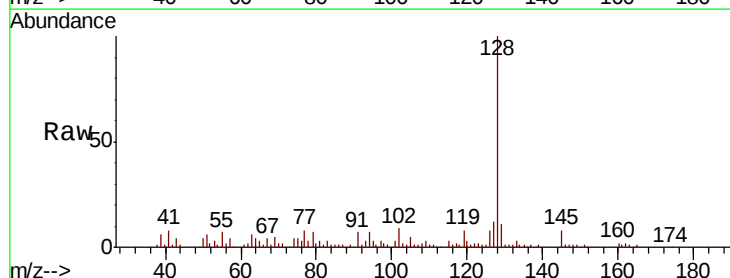
Tgt Ion: 128 Resp: 137771

Ion Ratio Lower Upper

128 100

127 12.4 9.8 14.8

129 10.8 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

