

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
 Data File : VD062506.D
 Acq On : 22 May 2019 16:48
 Operator : VA/AP
 Sample : K2996-05
 Misc : 5.42g/5ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: May 23 03:14:36 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	7.11	168	64809	50.00	ug/l	0.05
34) 1,4-Difluorobenzene	8.30	114	70410	50.00	ug/l	0.06
63) Chlorobenzene-d5	12.48	117	149475	50.00	ug/l	0.10
72) 1,4-Dichlorobenzene-d4	14.52	152	4454	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.66	65	12127	17.48	ug/l	0.19
Spiked Amount	50.000		Recovery	=	34.96%	
35) Dibromofluoromethane	6.95	113	55075	86.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	173.42%	
50) Toluene-d8	10.50	98	80056	57.59	ug/l	0.07
Spiked Amount	50.000		Recovery	=	115.18%	
62) 4-Bromofluorobenzene	13.64	95	112441	184.92	ug/l	0.07
Spiked Amount	50.000		Recovery	=	369.84%	

Target Compounds					Qvalue	
3) Chloromethane	1.82	50	190764	424.897	ug/l #	69
6) Chloroethane	2.32	64	4455	19.493	ug/l #	1
11) Tert butyl alcohol	4.09	59	2978	92.999	ug/l #	1
13) Acrolein	2.95	56	940894	35381.942	ug/l #	1
15) Acrylonitrile	4.21	53	67069	914.043	ug/l #	44
16) Acetone	3.19	43	7415261	59648.165	ug/l #	58
17) Carbon Disulfide	3.35	76	15557	10.703	ug/l	100
19) Methyl tert-butyl Ether	4.20	73	2228	2.010	ug/l #	1
20) Methylene Chloride	3.76	84	193972	410.833	ug/l #	28
24) 1,1-Dichloroethane	5.18	63	430814	444.077	ug/l #	85
28) Bromochloromethane	6.51	49	3234	9.288	ug/l #	1
29) Tetrahydrofuran	6.71	42	648824	10448.469	ug/l #	1
30) Chloroform	6.71	83	4365882	3529.967	ug/l #	32
36) 1,1-Dichloropropene	7.22	75	5838	8.672	ug/l #	1
38) Carbon Tetrachloride	7.16	117	2674	2.673	ug/l #	12
39) Methylcyclohexane	8.84	83	6344529	11426.866	ug/l #	1
40) Benzene	7.58	78	13577490	10282.640	ug/l	96
41) Methacrylonitrile	6.50	41	183768	559.515	ug/l #	68
42) 1,2-Dichloroethane	7.58	62	102222	146.196	ug/l #	1
43) Isopropyl Acetate	9.28	43	62677100	180663.964	ug/l #	43
45) 1,2-Dichloropropane	9.07	63	92322	286.906	ug/l #	1
46) Dibromomethane	9.24	93	207567	711.609	ug/l #	1
47) Bromodichloromethane	9.59	83	3703454	4991.002	ug/l #	43
48) Methyl methacrylate	9.17	41	6098148	26120.312	ug/l #	61
49) 1,4-Dioxane	9.15	88	178	85.001	ug/l #	1
53) t-1,3-Dichloropropene	11.02	75	4071	6.590	ug/l #	1
54) cis-1,3-Dichloropropene	10.24	75	993	1.540	ug/l #	1
55) 1,1,2-Trichloroethane	11.24	97	2856612	9324.254	ug/l #	30
56) Ethyl methacrylate	11.15	69	12418289	37917.110	ug/l #	49
58) 2-Chloroethyl Vinyl ether	9.94	63	226022	1343.976	ug/l #	46
59) 2-Hexanone	11.65	43	4563021	27394.273	ug/l #	32
60) Dibromochloromethane	11.81	129	24486	41.612	ug/l #	1
61) 1,2-Dibromoethane	11.97	107	71021	188.108	ug/l #	1
65) Chlorobenzene	12.30	112	144784	50.369	ug/l #	59

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

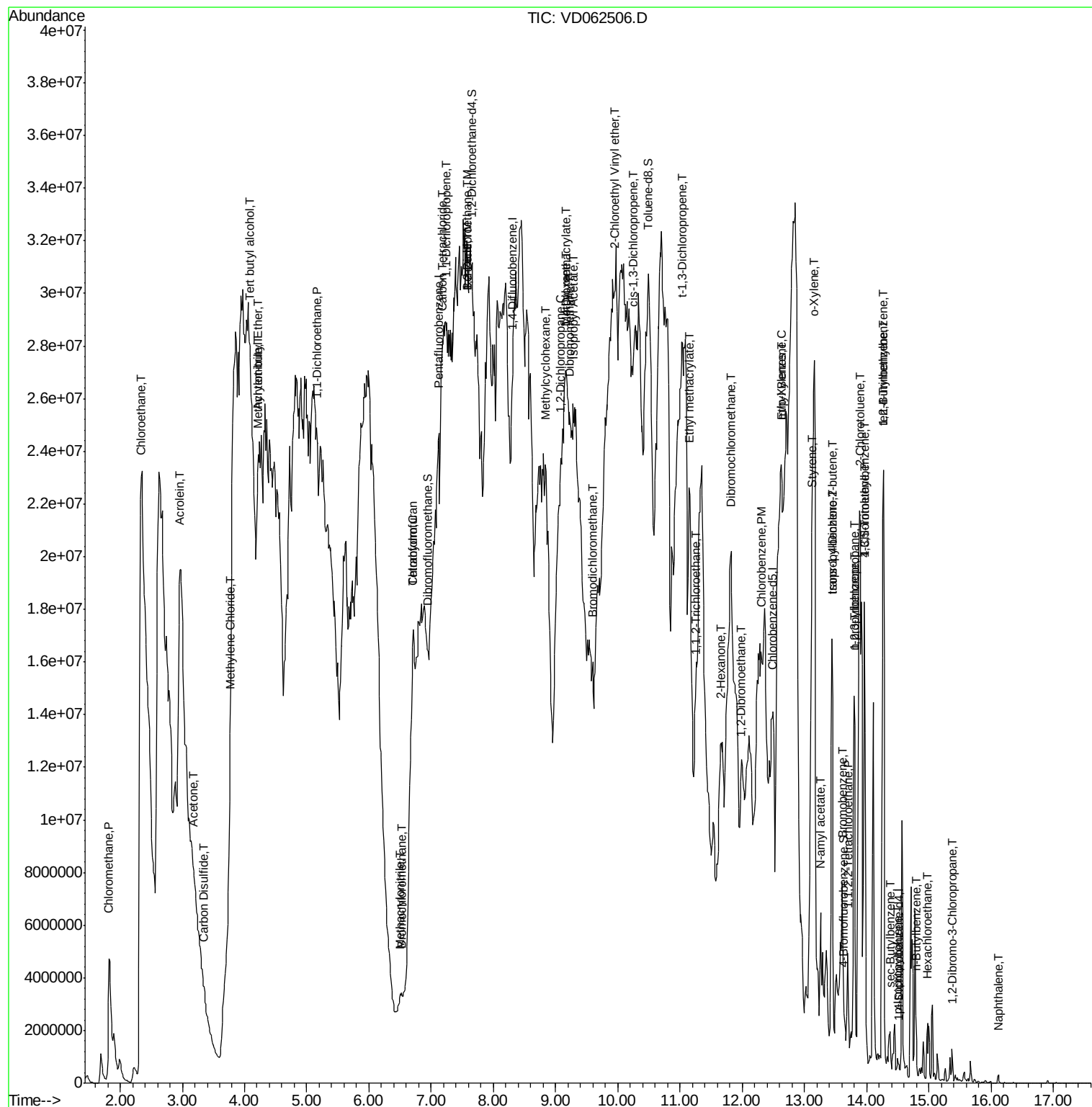
67) Ethyl Benzene	12.63	91	40952875	8271.489	ug/l #	84
68) m/p-Xylenes	12.63	106	14369950	8085.513	ug/l #	69
69) o-Xylene	13.16	106	15833490	9442.231	ug/l	58
70) Styrene	13.11	104	118055	41.384	ug/l #	1
73) Isopropylbenzene	13.44	105	10410868	37082.017	ug/l	95
74) N-amyl acetate	13.26	43	899210	12967.924	ug/l #	46
75) 1,1,2,2-Tetrachloroethane	13.70	83	84999	1678.169	ug/l #	85
76) 1,2,3-Trichloropropane	13.80	75	93030	1773.253	ug/l #	1
77) Bromobenzene	13.60	156	1000	12.556	ug/l #	1
78) n-propylbenzene	13.80	91	11953313	36756.242	ug/l	99
79) 2-Chlorotoluene	13.89	91	3991306	20224.074	ug/l #	38
80) 1,3,5-Trimethylbenzene	13.96	105	8828869	36319.424	ug/l	91
81) trans-1,4-Dichloro-2-buten	13.44	75	149224	10085.453	ug/l #	14
82) 4-Chlorotoluene	13.96	91	1036748	4561.480	ug/l #	37
83) tert-Butylbenzene	14.27	119	2233714	8283.937	ug/l #	70
84) 1,2,4-Trimethylbenzene	14.27	105	15985091	64174.497	ug/l	79
85) sec-Butylbenzene	14.38	105	722625	2570.142	ug/l	98
86) p-Isopropyltoluene	14.50	119	215776	846.858	ug/l	88
89) n-Butylbenzene	14.80	91	979484	3983.268	ug/l	96
90) Hexachloroethane	14.98	117	170646	2423.357	ug/l #	20
92) 1,2-Dibromo-3-Chloropropan	15.37	75	4668	485.540	ug/l #	1
95) Naphthalene	16.12	128	189007	1468.915	ug/l	99

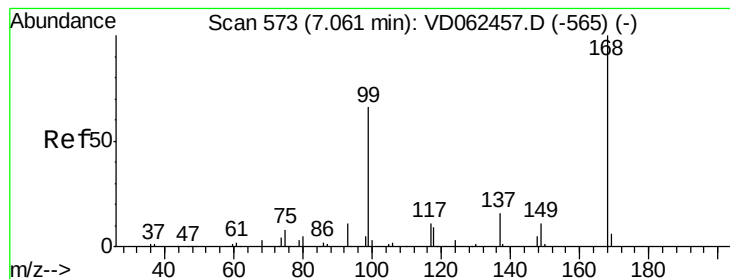
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.11 min Scan# 578

Delta R.T. 0.05 min

Lab File: VD062506.D

Acq: 22 May 2019 16:48

Instrument :

MSVOA_D

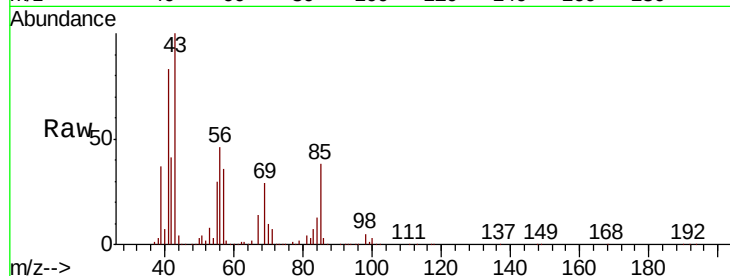
ClientSampleId :

Tot Ion:168 Resp: 64809

Ion Ratio Lower Upper

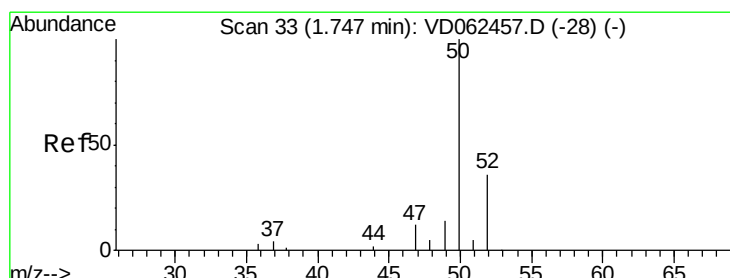
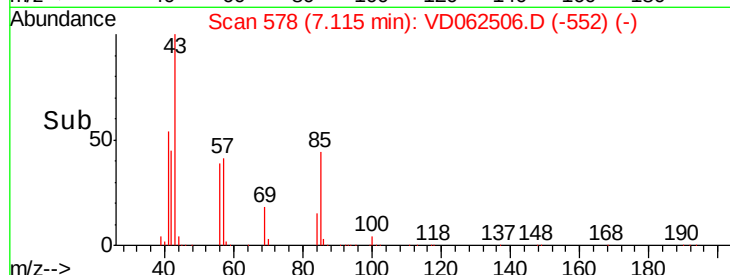
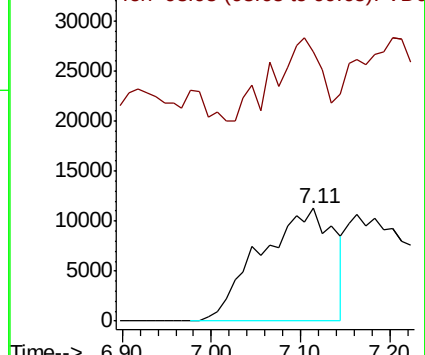
168 100

99 238.7 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: 424.897 ug/l

RT: 1.82 min Scan# 40

Delta R.T. 0.07 min

Lab File: VD062506.D

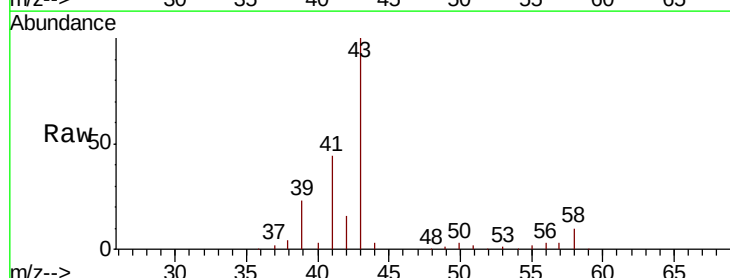
Acq: 22 May 2019 16:48

Tgt Ion: 50 Resp: 190764

Ion Ratio Lower Upper

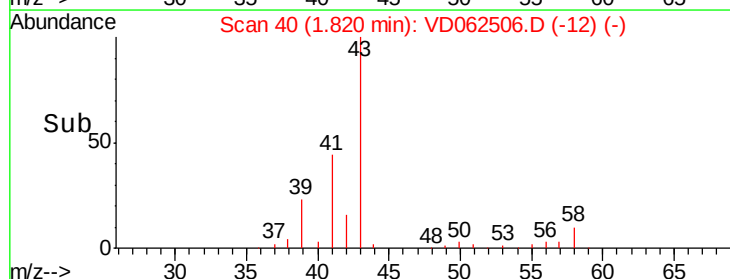
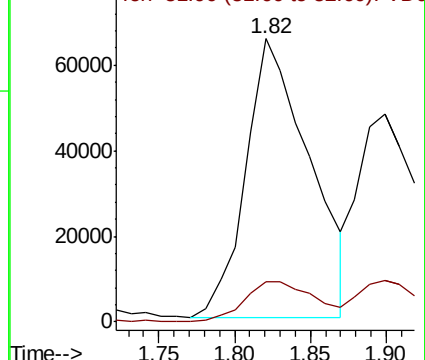
50 100

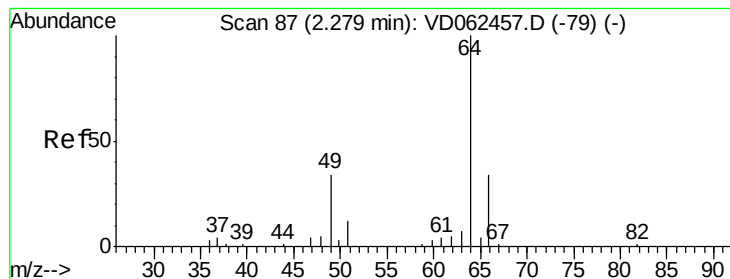
52 14.2 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#6

Chloroethane

Concen: 19.493 ug/l

RT: 2.32 min Scan# 91

Delta R.T. 0.04 min

Lab File: VD062506.D

Acq: 22 May 2019 16:48

Instrument :

MSVOA_D

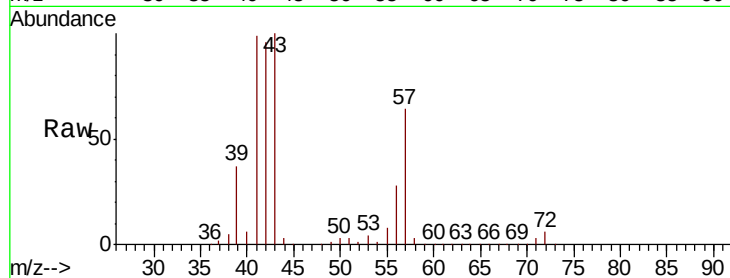
ClientSampleId :

Tot Ion: 64 Resp: 4455

Ion Ratio Lower Upper

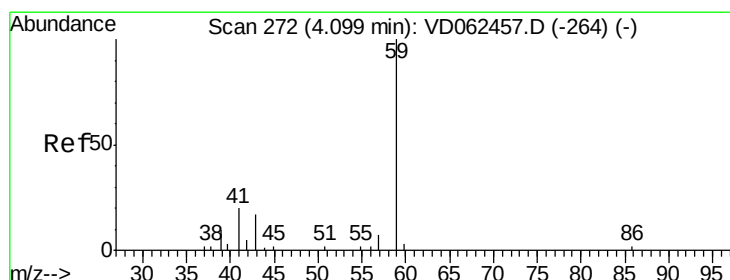
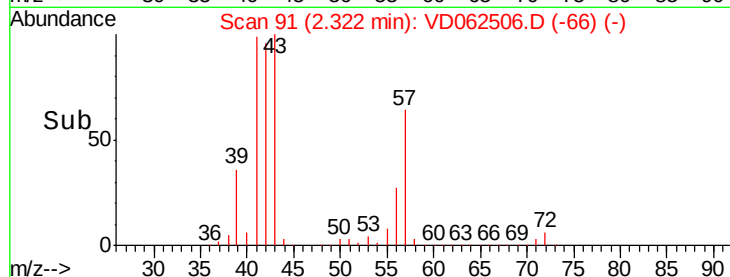
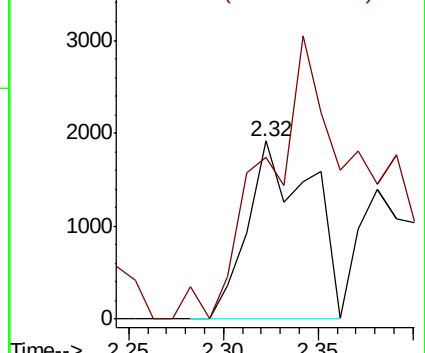
64 100

66 90.8 25.6 38.4#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



#11

Tert butyl alcohol

Concen: 92.999 ug/l

RT: 4.09 min Scan# 271

Delta R.T. -0.01 min

Lab File: VD062506.D

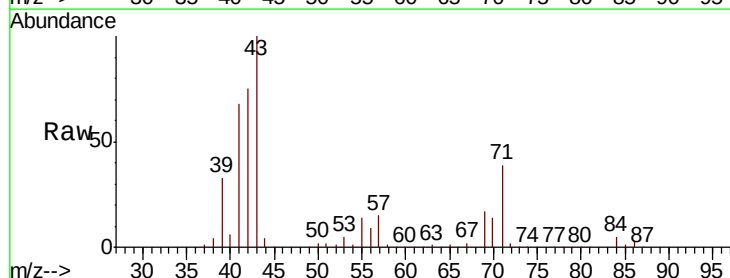
Acq: 22 May 2019 16:48

Tgt Ion: 59 Resp: 2978

Ion Ratio Lower Upper

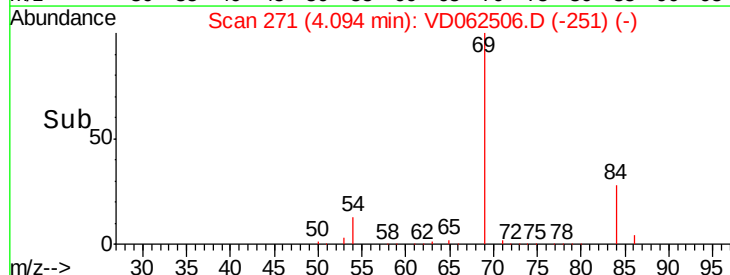
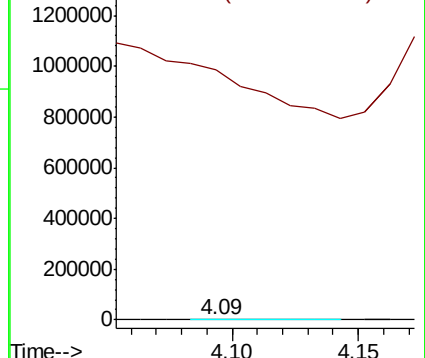
59 100

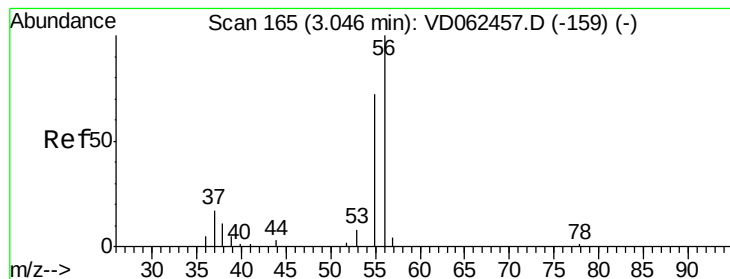
57 80666.1 6.9 10.3#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 35381.942 ug/l

RT: 2.95 min Scan# 155

Delta R.T. -0.09 min

Lab File: VD062506.D

Acq: 22 May 2019 16:48

Instrument :

MSVOA_D

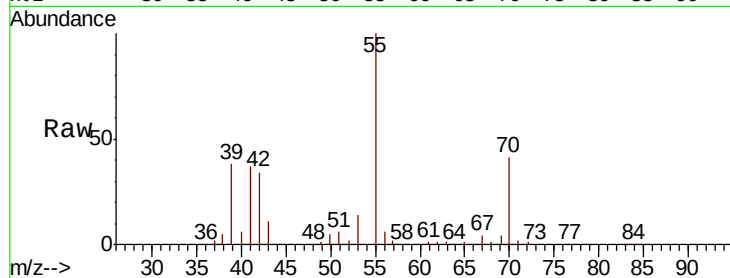
ClientSampleId :

Tot Ion: 56 Resp: 940894

Ion Ratio Lower Upper

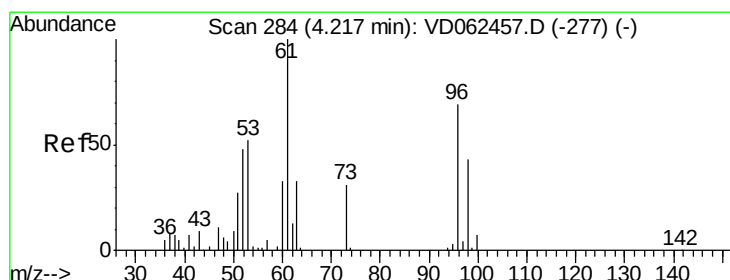
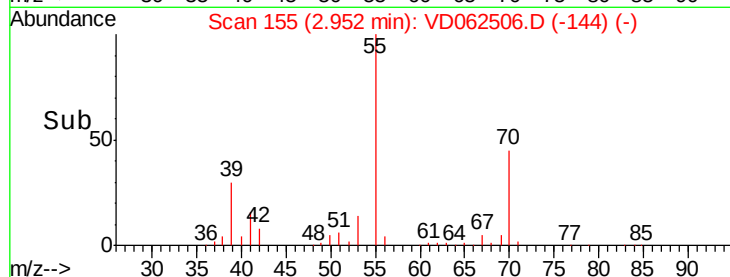
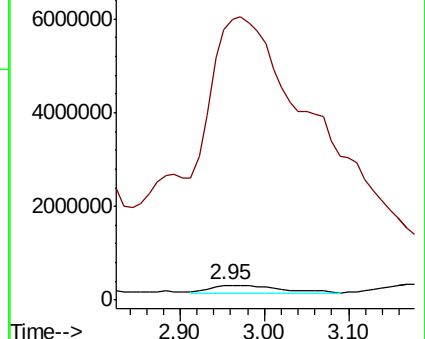
56 100

55 1805.0 51.4 77.2#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#15

Acrylonitrile

Concen: 914.043 ug/l

RT: 4.21 min Scan# 283

Delta R.T. -0.01 min

Lab File: VD062506.D

Acq: 22 May 2019 16:48

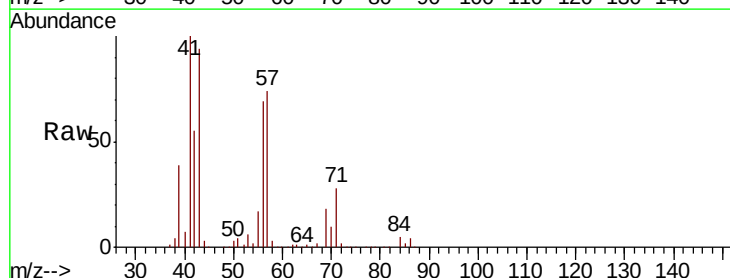
Tgt Ion: 53 Resp: 67069

Ion Ratio Lower Upper

53 100

52 18.5 65.0 97.4#

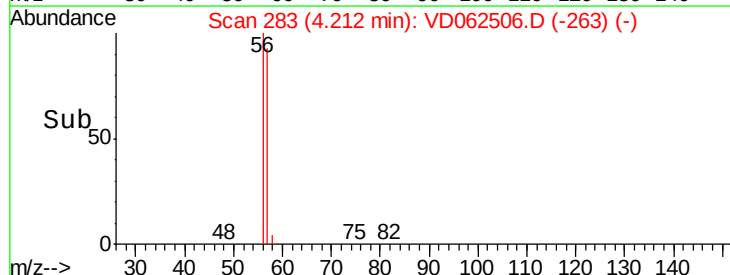
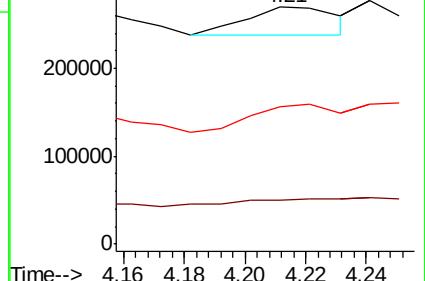
51 57.8 32.6 48.8#

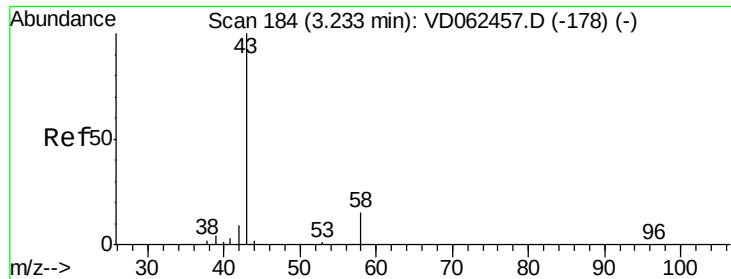


Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC





#16

Acetone

Concen: 59648.165 ug/l

RT: 3.19 min Scan# 179

Delta R.T. -0.04 min

Lab File: VD062506.D

Acq: 22 May 2019 16:48

Instrument :

MSVOA_D

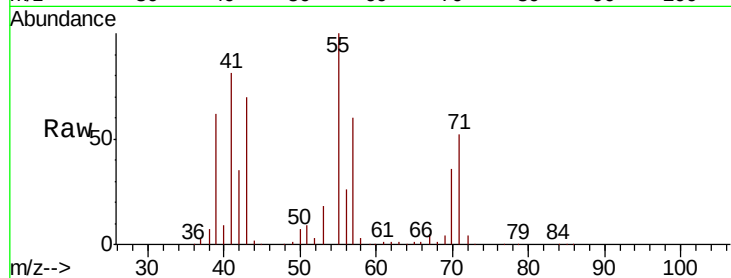
ClientSampleId :

Tot Ion: 43 Resp: 7415261

Ion Ratio Lower Upper

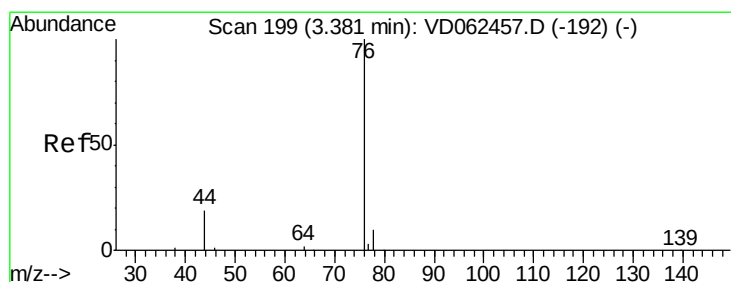
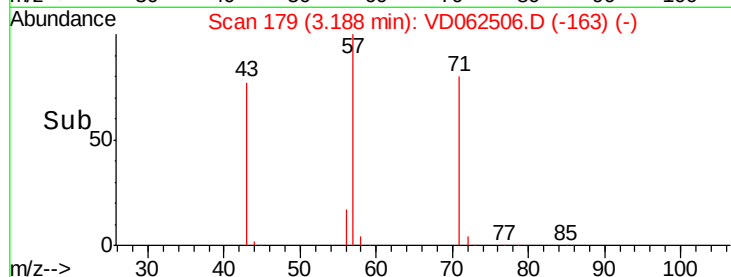
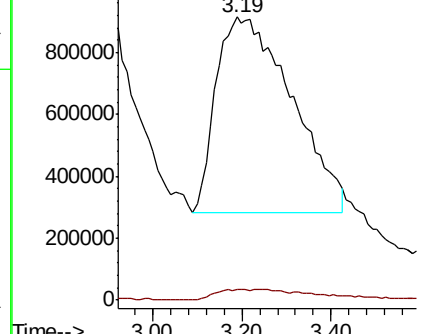
43 100

58 3.8 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: 10.703 ug/l

RT: 3.35 min Scan# 195

Delta R.T. -0.04 min

Lab File: VD062506.D

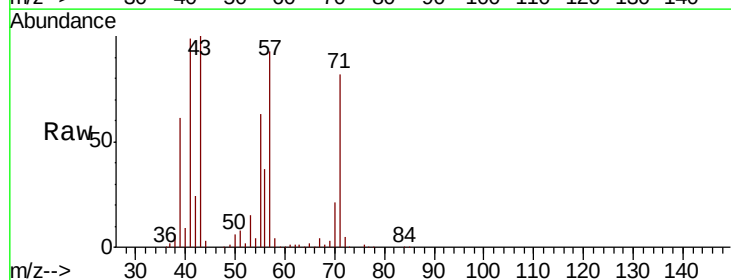
Acq: 22 May 2019 16:48

Tgt Ion: 76 Resp: 15557

Ion Ratio Lower Upper

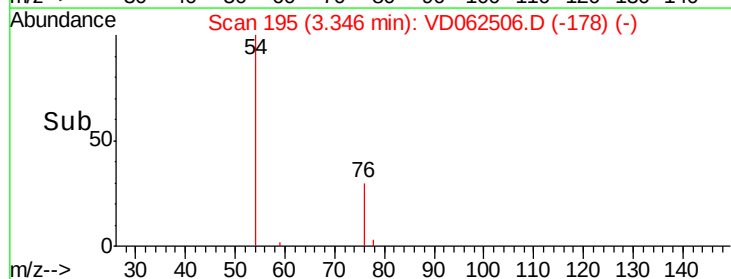
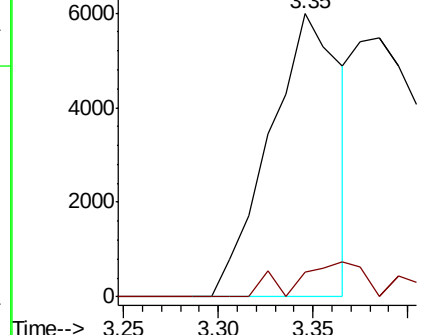
76 100

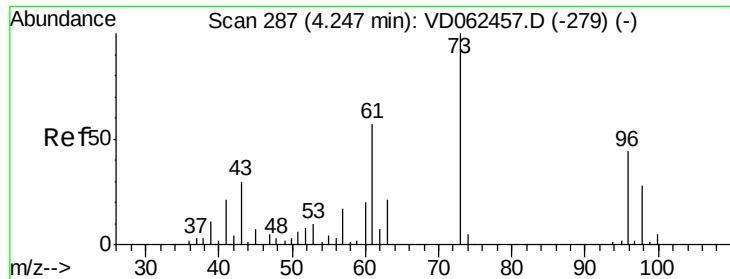
78 8.9 7.2 10.8



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

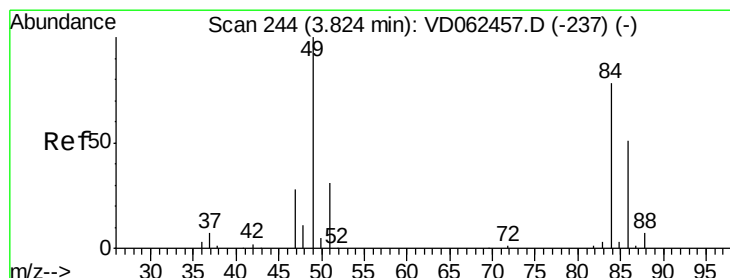
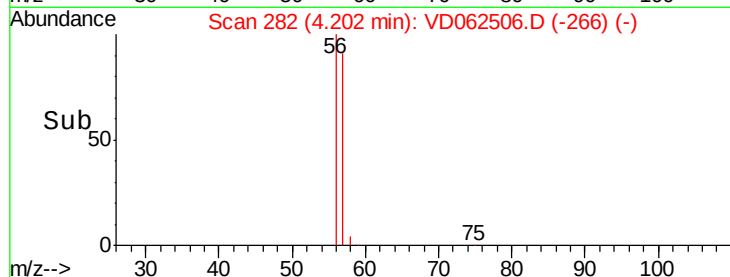
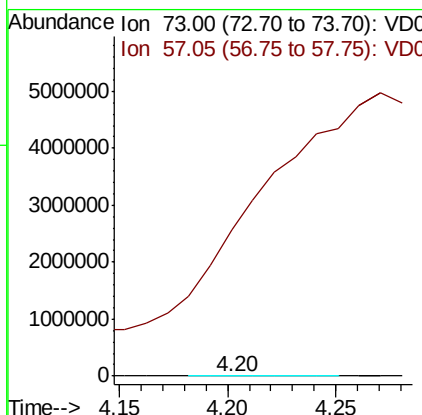
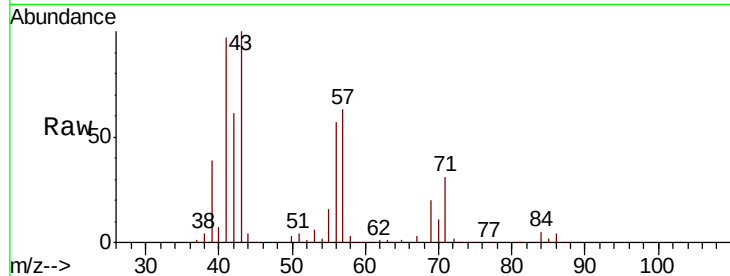




#19
Methyl tert-butyl Ether
Concen: 2.010 ug/l
RT: 4.20 min Scan# 282
Delta R.T. -0.04 min
Lab File: VD062506.D
Acq: 22 May 2019 16:48

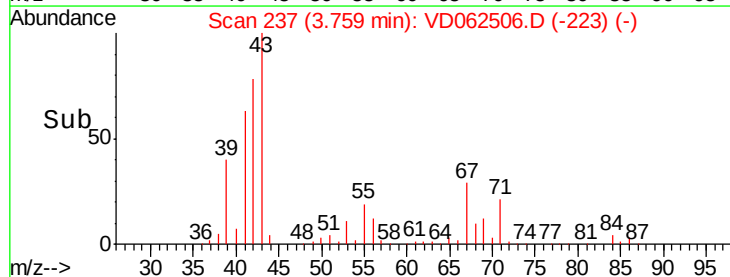
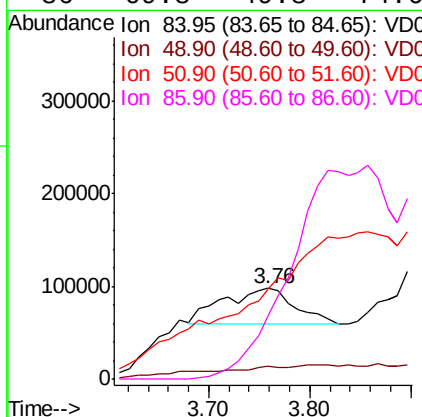
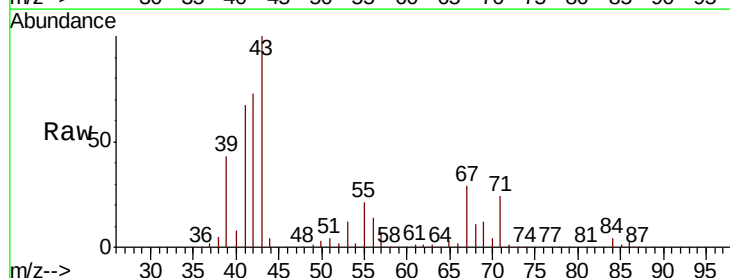
Instrument :
MSVOA_D
ClientSampled :

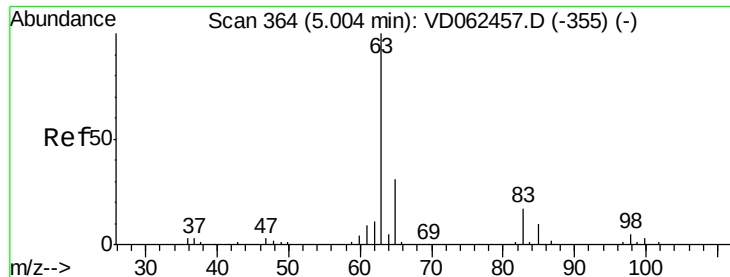
Tot Ion: 73 Resp: 2228
Ion Ratio Lower Upper
73 100
57 62190.9 16.3 24.5#



#20
Methylene Chloride
Concen: 410.833 ug/l
RT: 3.76 min Scan# 237
Delta R.T. -0.06 min
Lab File: VD062506.D
Acq: 22 May 2019 16:48

Tgt Ion: 84 Resp: 193972
Ion Ratio Lower Upper
84 100
49 14.2 94.0 141.0#
51 98.6 29.0 43.4#
86 69.8 49.8 74.6





#24

1,1-Dichloroethane

Concen: 444.077 ug/l

RT: 5.18 min Scan# 381

Delta R.T. 0.17 min

Lab File: VD062506.D

Acq: 22 May 2019 16:48

Instrument :

MSVOA_D

ClientSampleId :

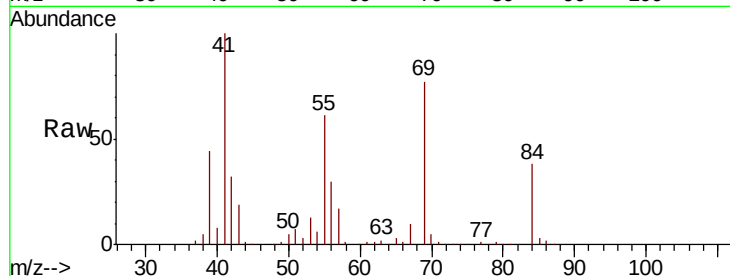
Tot Ion: 63 Resp: 430814

Ion Ratio Lower Upper

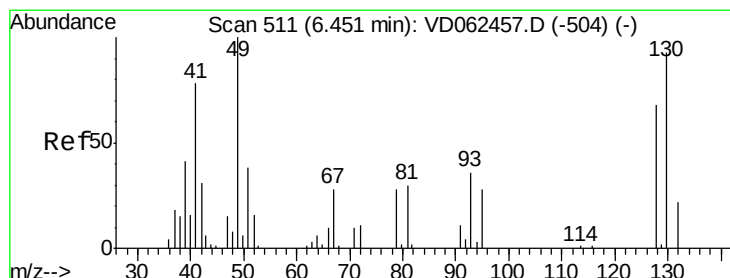
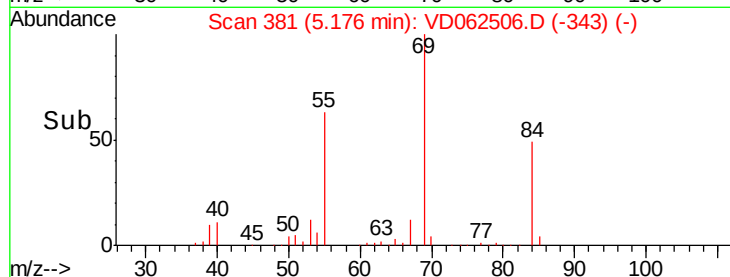
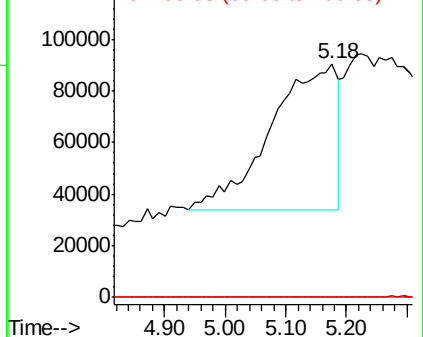
63 100

98 0.0 2.8 8.4#

100 0.0 1.8 5.5#



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



#28

Bromochloromethane

Concen: 9.288 ug/l

RT: 6.51 min Scan# 517

Delta R.T. 0.06 min

Lab File: VD062506.D

Acq: 22 May 2019 16:48

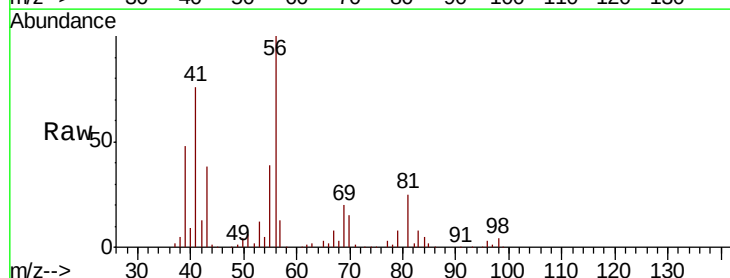
Tgt Ion: 49 Resp: 3234

Ion Ratio Lower Upper

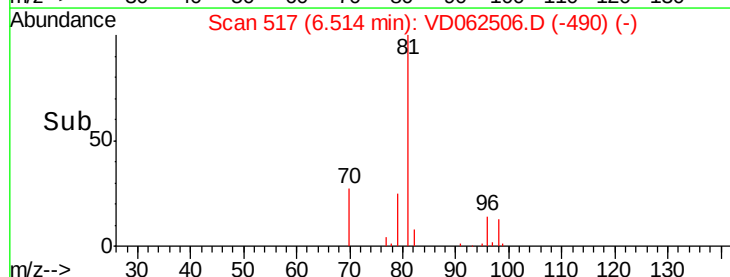
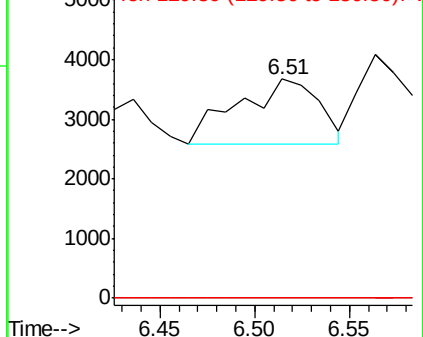
49 100

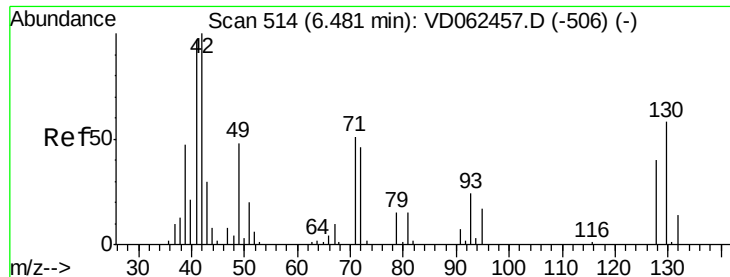
129 0.0 0.0 6.6

130 0.0 86.7 130.1#



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





#29

Tetrahydrofuran

Concen: 10448.469 ug/l

RT: 6.71 min Scan# 537

Delta R.T. 0.23 min

Lab File: VD062506.D

Acq: 22 May 2019 16:48

Instrument :

MSVOA_D

ClientSampleId :

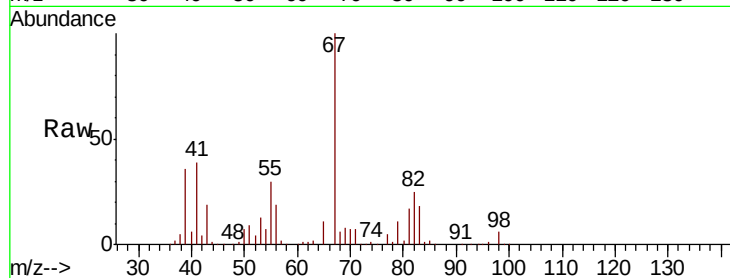
Tot Ion: 42 Resp: 648824

Ion Ratio Lower Upper

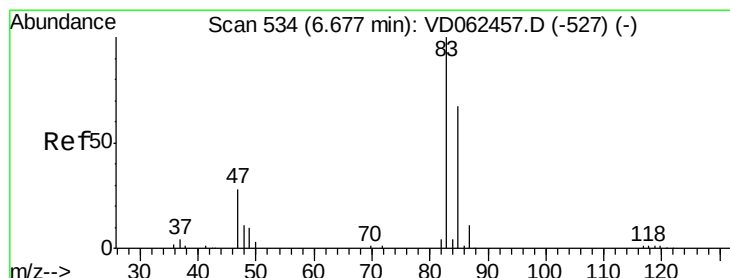
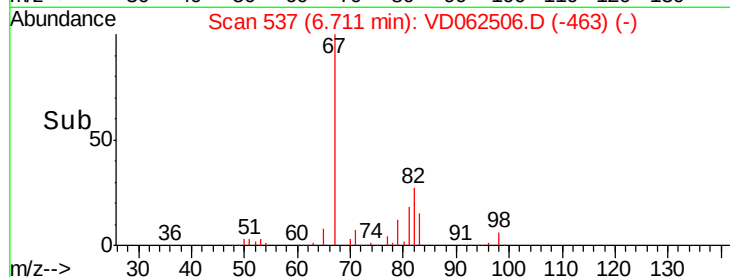
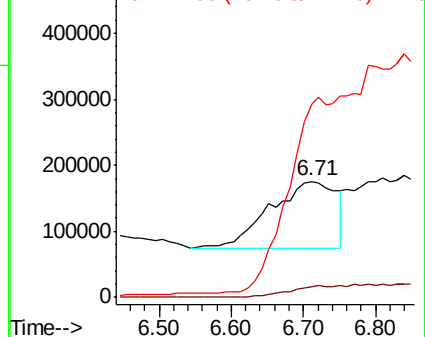
42 100

72 11.8 37.8 56.6#

71 170.0 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: 3529.967 ug/l

RT: 6.71 min Scan# 537

Delta R.T. 0.03 min

Lab File: VD062506.D

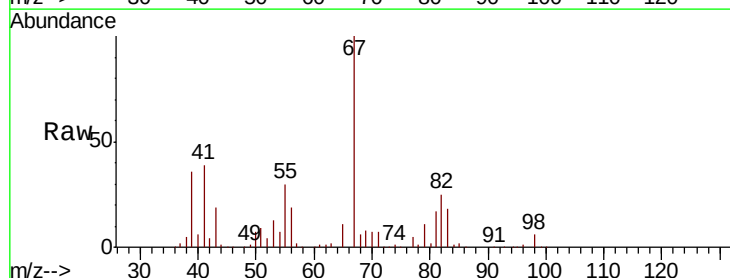
Acq: 22 May 2019 16:48

Tgt Ion: 83 Resp: 4365882

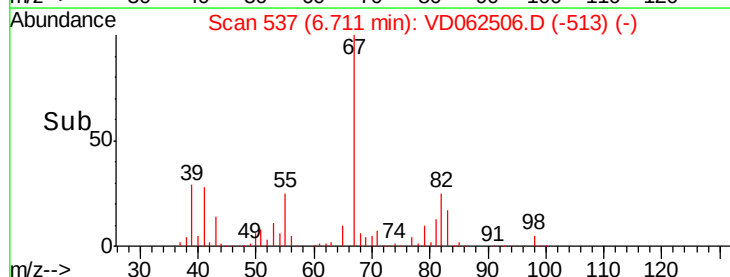
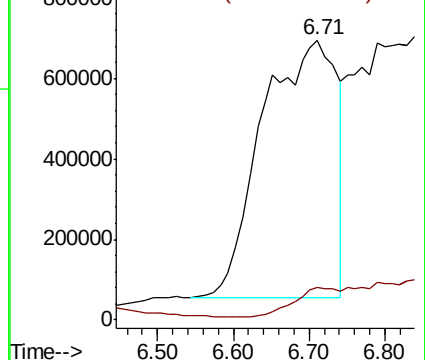
Ion Ratio Lower Upper

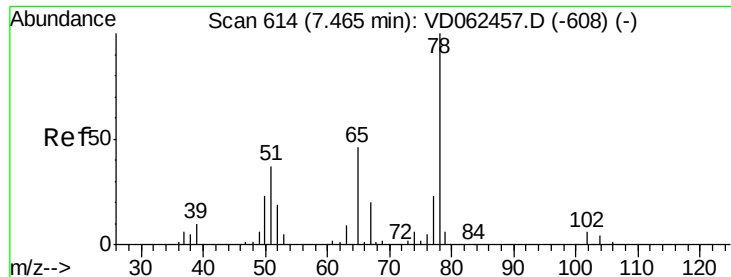
83 100

85 11.4 51.7 77.5#



Abundance Ion 82.95 (82.65 to 83.65): VDC
Ion 84.95 (84.65 to 85.65): VDC

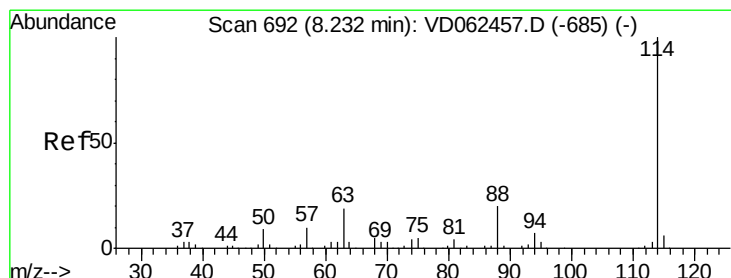
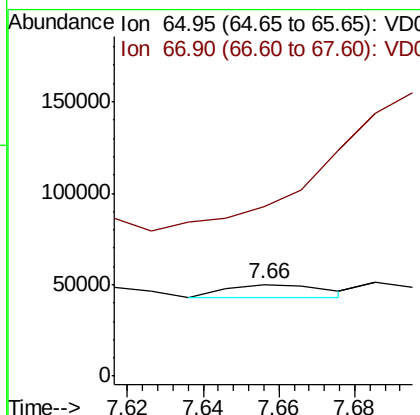
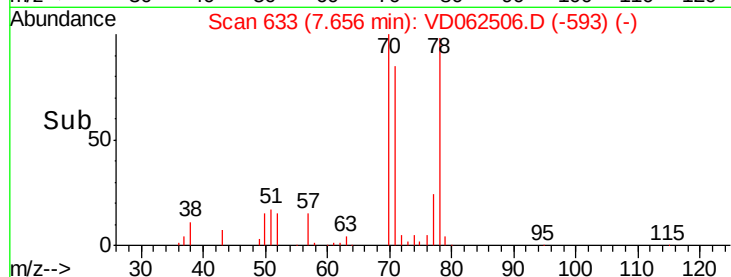
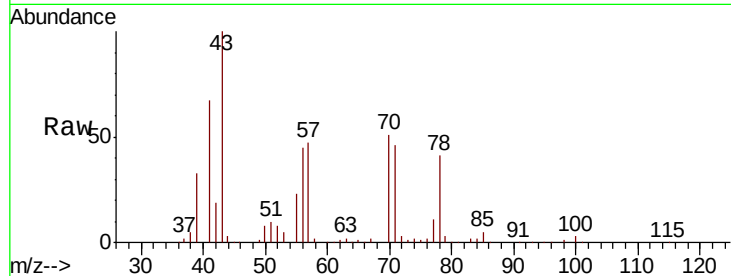




#33
 1,2-Dichloroethane-d4
 Concen: 17.481 ug/l
 RT: 7.66 min Scan# 633
 Delta R.T. 0.19 min
 Lab File: VD062506.D
 Acq: 22 May 2019 16:48

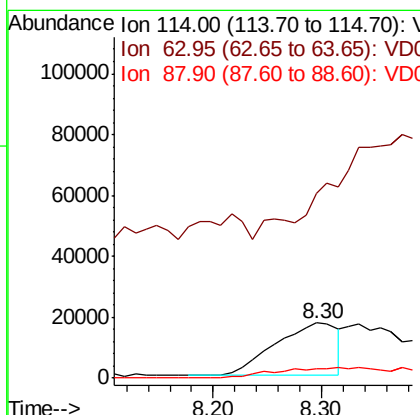
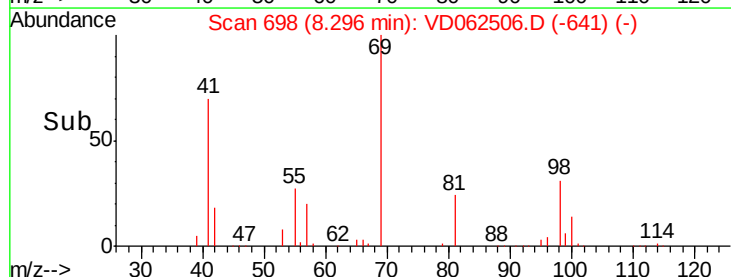
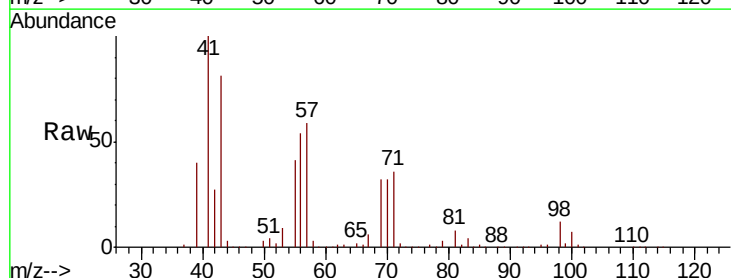
Instrument :
 MSVOA_D
 ClientSampleId :

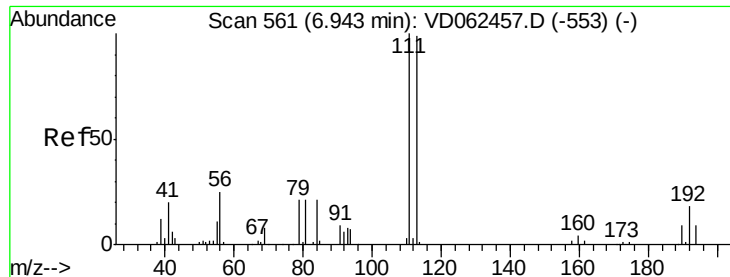
Tot Ion: 65 Resp: 12127
 Ion Ratio Lower Upper
 65 100
 67 184.6 0.0 98.0#



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.30 min Scan# 698
 Delta R.T. 0.06 min
 Lab File: VD062506.D
 Acq: 22 May 2019 16:48

Tgt Ion: 114 Resp: 70410
 Ion Ratio Lower Upper
 114 100
 63 335.2 0.0 32.4#
 88 18.0 0.0 33.6





#35

Dibromofluoromethane

Concen: 86.707 ug/l

RT: 6.95 min Scan# 561

Delta R.T. 0.00 min

Lab File: VD062506.D

Acq: 22 May 2019 16:48

Instrument :

MSVOA_D

ClientSampleId :

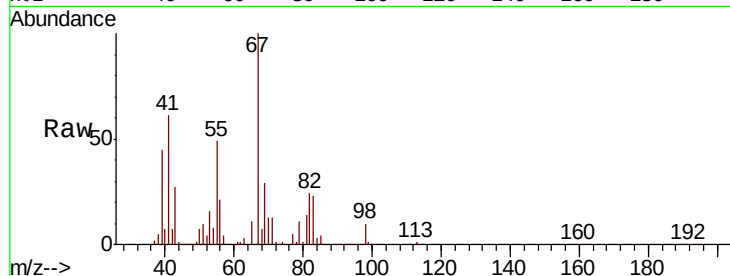
Tot Ion:113 Resp: 55075

Ion Ratio Lower Upper

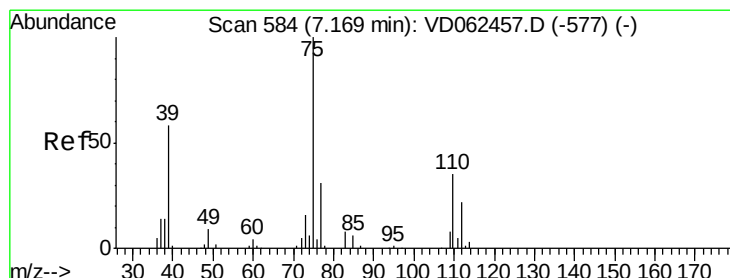
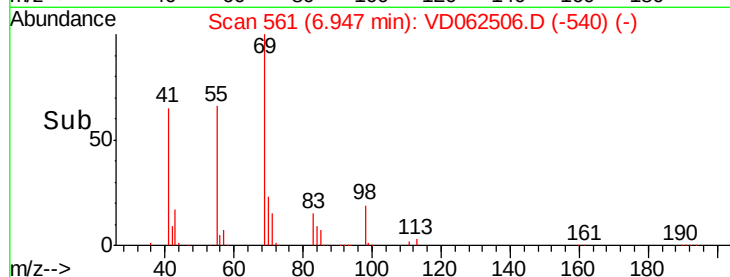
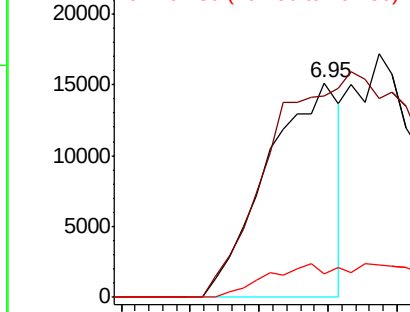
113 100

111 93.6 78.5 117.7

192 10.9 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: 8.672 ug/l

RT: 7.22 min Scan# 589

Delta R.T. 0.05 min

Lab File: VD062506.D

Acq: 22 May 2019 16:48

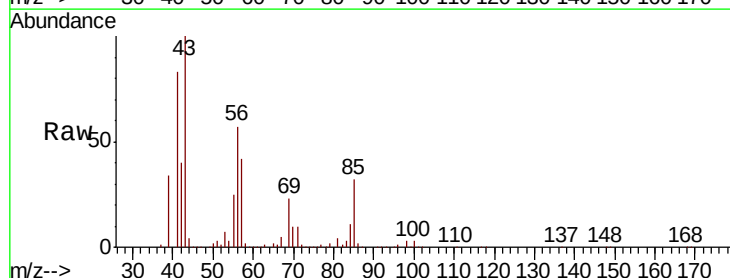
Tgt Ion: 75 Resp: 5838

Ion Ratio Lower Upper

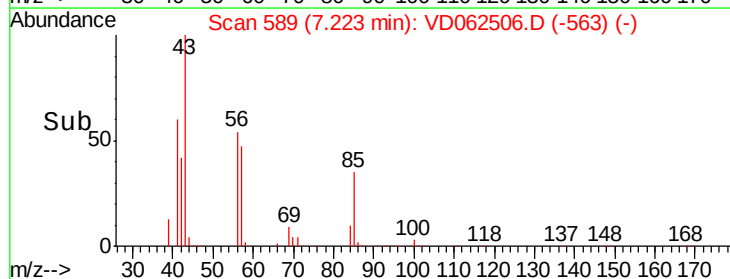
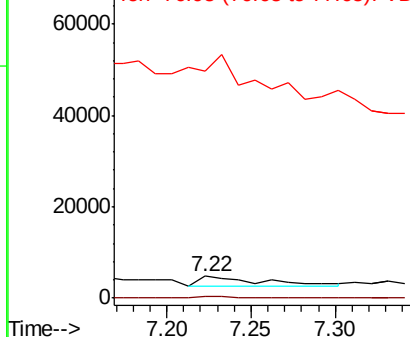
75 100

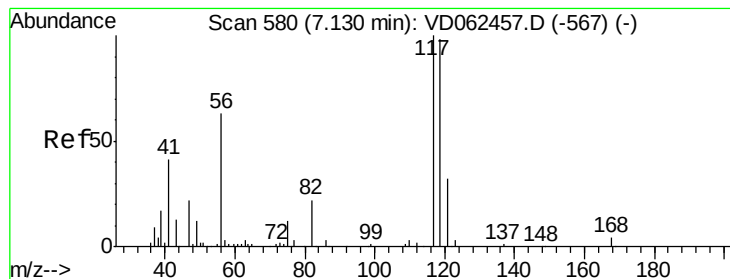
110 7.2 19.1 57.1#

77 1049.6 25.6 38.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 109.90 (109.60 to 110.60): V
Ion 76.95 (76.65 to 77.65): VDC





#38

Carbon Tetrachloride

Concen: 2.673 ug/l

RT: 7.16 min Scan# 583

Delta R.T. 0.03 min

Lab File: VD062506.D

Acq: 22 May 2019 16:48

Instrument :

MSVOA_D

ClientSampleId :

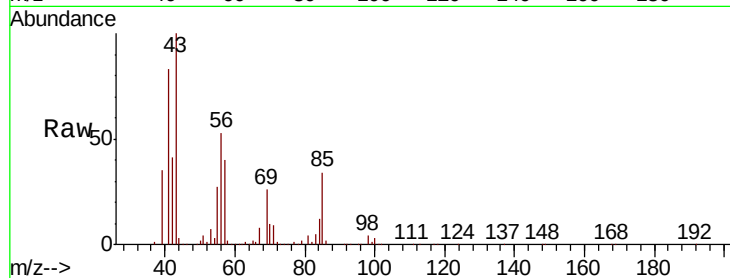
Tot Ion:117 Resp: 2674

Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.8#

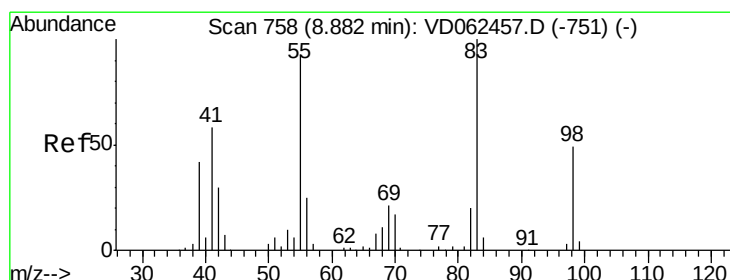
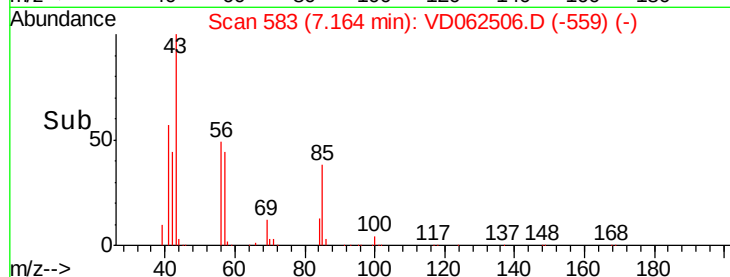
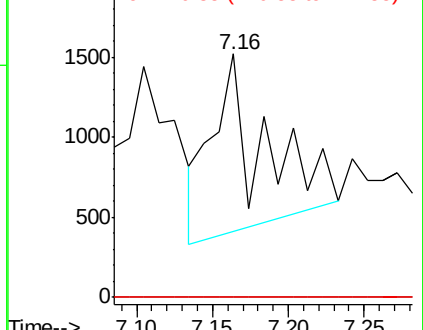
121 0.0 25.9 38.9#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#39

Methylcyclohexane

Concen: 11426.866 ug/l

RT: 8.84 min Scan# 753

Delta R.T. -0.04 min

Lab File: VD062506.D

Acq: 22 May 2019 16:48

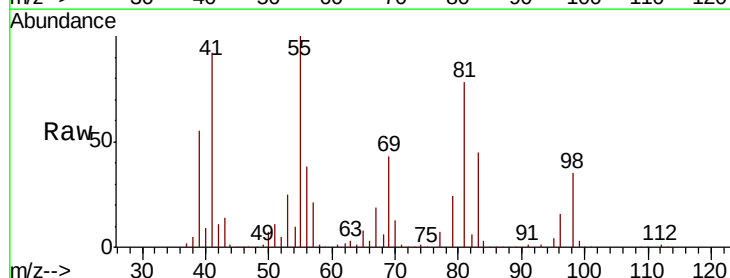
Tgt Ion: 83 Resp: 6344529

Ion Ratio Lower Upper

83 100

55 220.4 68.2 102.4#

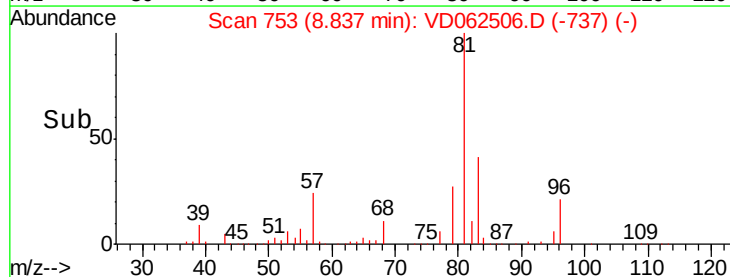
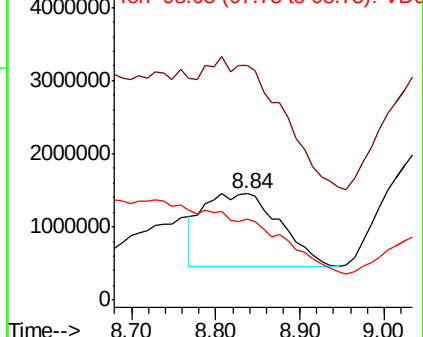
98 76.8 38.2 57.4#

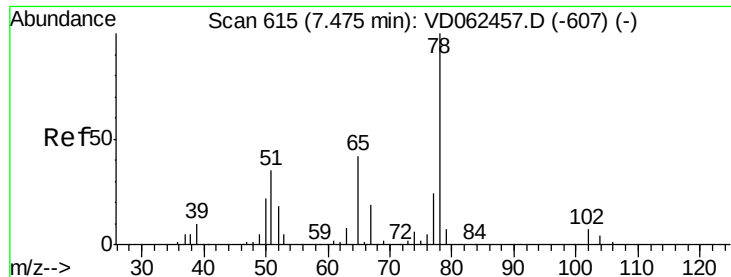


Abundance Ion 83.05 (82.75 to 83.75): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.05 (97.75 to 98.75): V

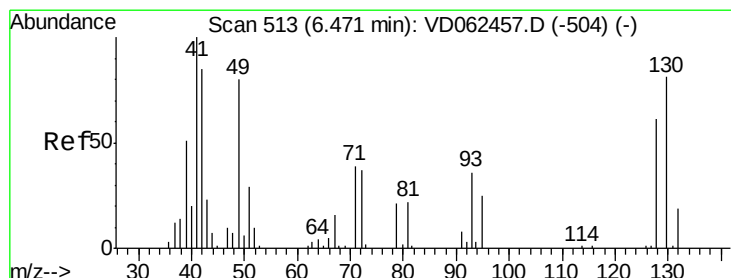
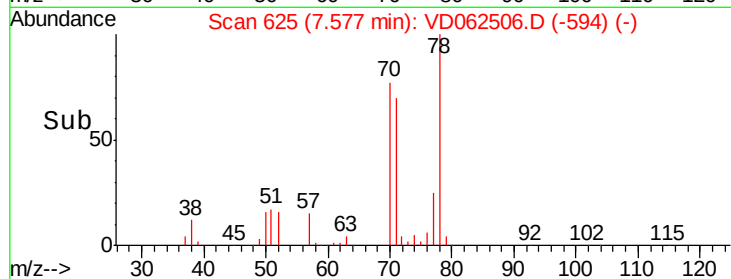
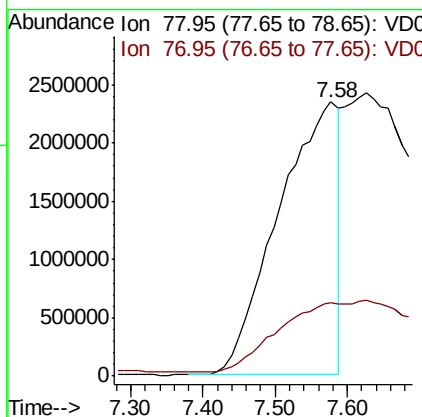
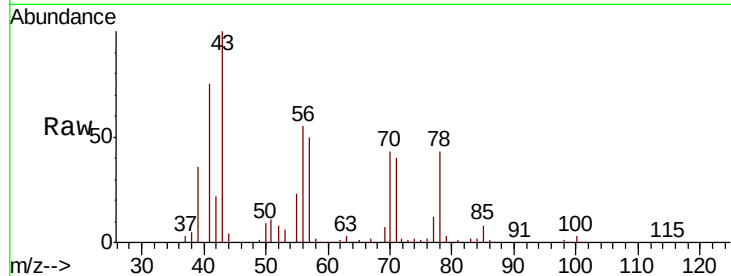




#40
Benzene
Concen: 10282.640 ug/l
RT: 7.58 min Scan# 625
Delta R.T. 0.10 min
Lab File: VD062506.D
Acq: 22 May 2019 16:48

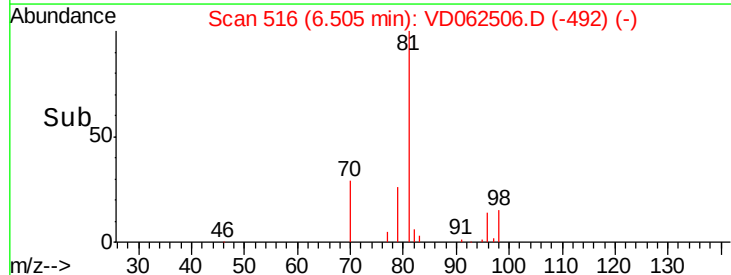
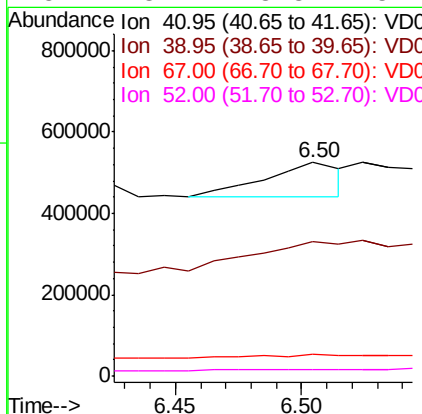
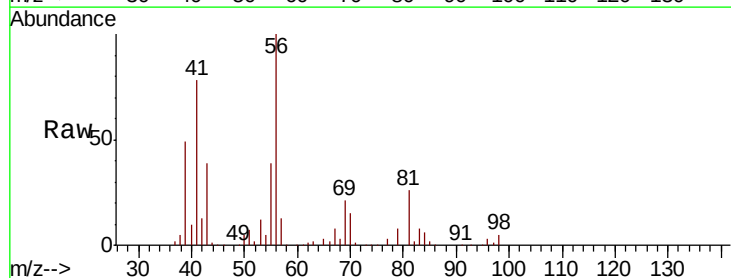
Instrument :
MSVOA_D
ClientSampleId :

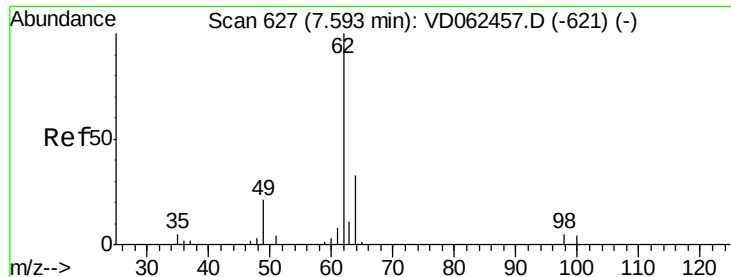
Tot Ion: 78 Resp:13577490
Ion Ratio Lower Upper
78 100
77 26.6 19.7 29.5



#41
Methacrylonitrile
Concen: 559.515 ug/l
RT: 6.50 min Scan# 516
Delta R.T. 0.03 min
Lab File: VD062506.D
Acq: 22 May 2019 16:48

Tgt Ion: 41 Resp: 183768
Ion Ratio Lower Upper
41 100
39 63.1 34.1 51.1#
67 10.3 23.8 35.6#
52 3.2 8.8 13.2#

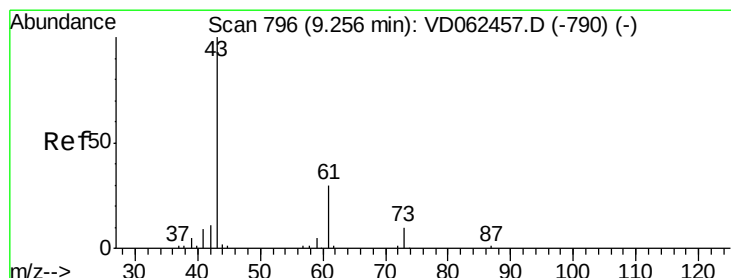
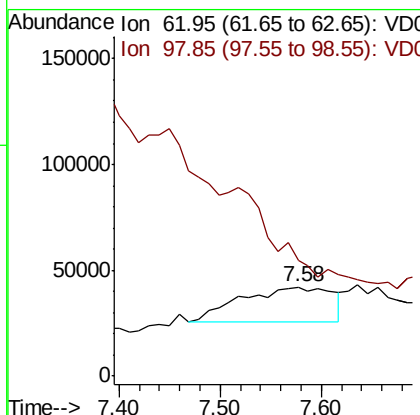
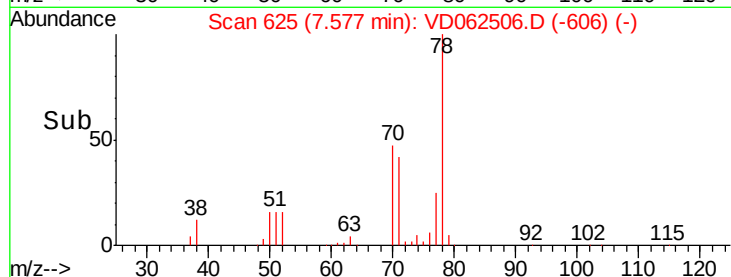
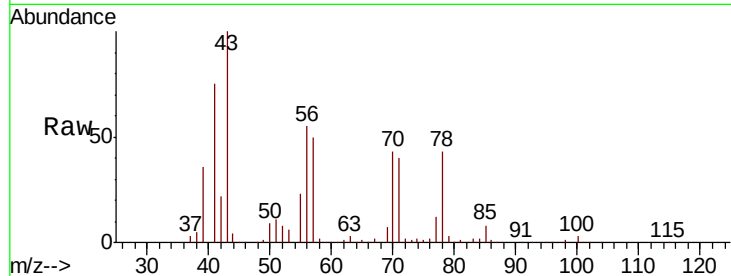




#42
 1,2-Dichloroethane
 Concen: 146.196 ug/l
 RT: 7.58 min Scan# 625
 Delta R.T. -0.02 min
 Lab File: VD062506.D
 Acq: 22 May 2019 16:48

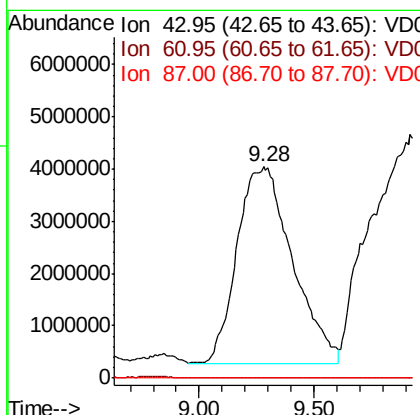
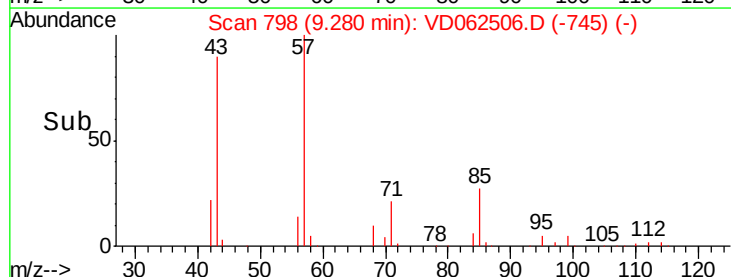
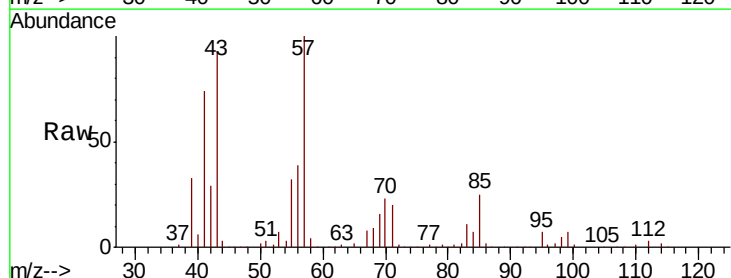
Instrument :
 MSVOA_D
 ClientSampleId :

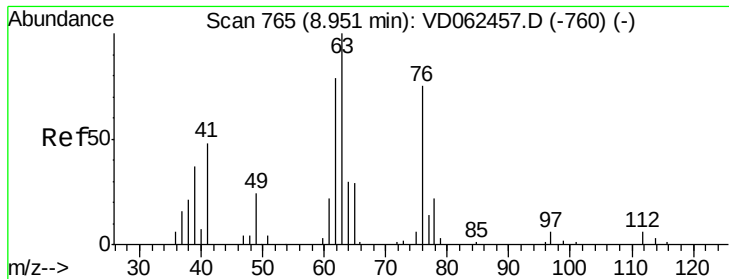
Tot Ion: 62 Resp: 102222
 Ion Ratio Lower Upper
 62 100
 98 130.1 0.0 17.8#



#43
 Isopropyl Acetate
 Concen: 180663.964 ug/l
 RT: 9.28 min Scan# 798
 Delta R.T. 0.02 min
 Lab File: VD062506.D
 Acq: 22 May 2019 16:48

Tgt Ion: 43 Resp: 62677100
 Ion Ratio Lower Upper
 43 100
 61 0.1 25.1 37.7#
 87 0.1 0.0 0.0#





#45

1,2-Dichloropropane

Concen: 286.906 ug/l

RT: 9.07 min Scan# 777

Delta R.T. 0.12 min

Lab File: VD062506.D

Acq: 22 May 2019 16:48

Instrument :

MSVOA_D

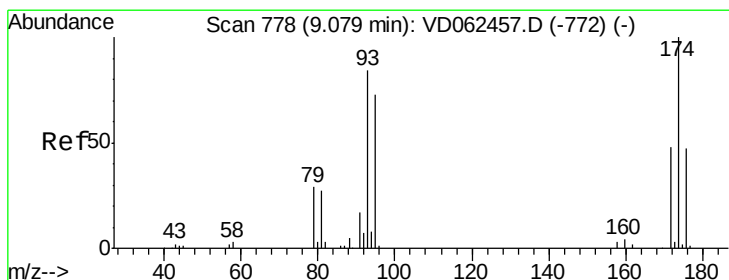
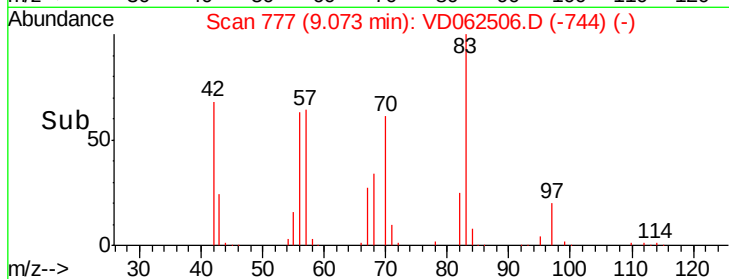
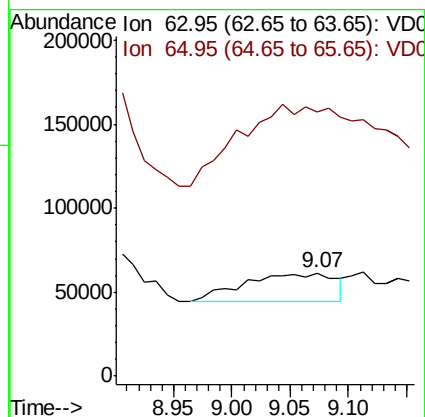
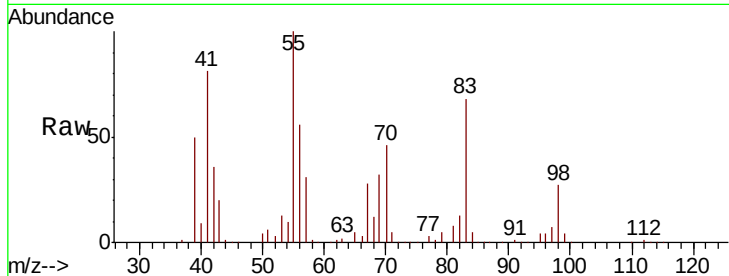
ClientSampled :

Tot Ion: 63 Resp: 92322

Ion Ratio Lower Upper

63 100

65 255.7 23.8 35.6#



#46

Dibromomethane

Concen: 711.609 ug/l

RT: 9.24 min Scan# 794

Delta R.T. 0.16 min

Lab File: VD062506.D

Acq: 22 May 2019 16:48

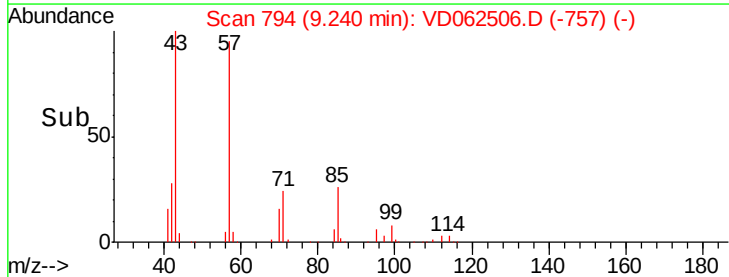
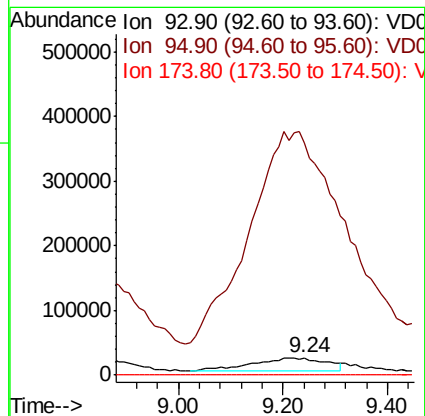
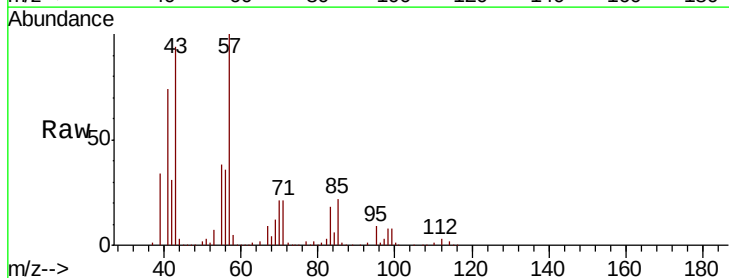
Tgt Ion: 93 Resp: 207567

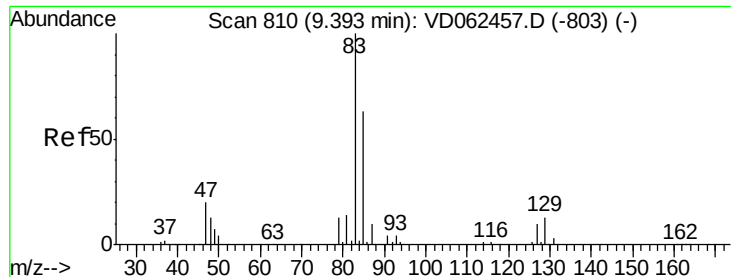
Ion Ratio Lower Upper

93 100

95 1354.8 64.8 97.2#

174 0.0 79.3 118.9#





#47

Bromodichloromethane

Concen: 4991.002 ug/l

RT: 9.59 min Scan# 830

Delta R.T. 0.20 min

Lab File: VD062506.D

Acq: 22 May 2019 16:48

Instrument :

MSVOA_D

ClientSampled :

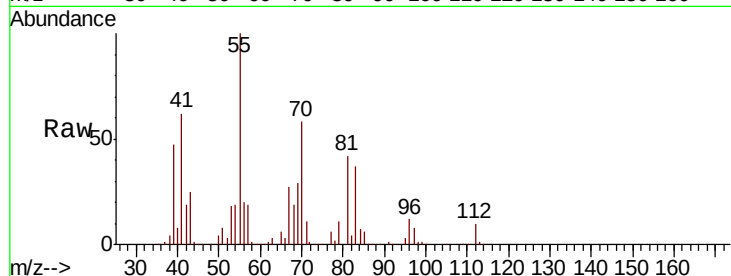
Tot Ion: 83 Resp: 3703454

Ion Ratio Lower Upper

83 100

85 15.8 50.9 76.3#

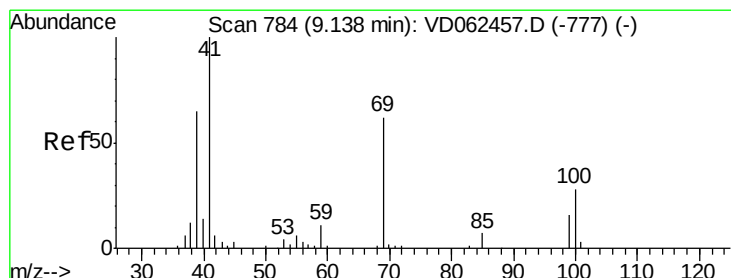
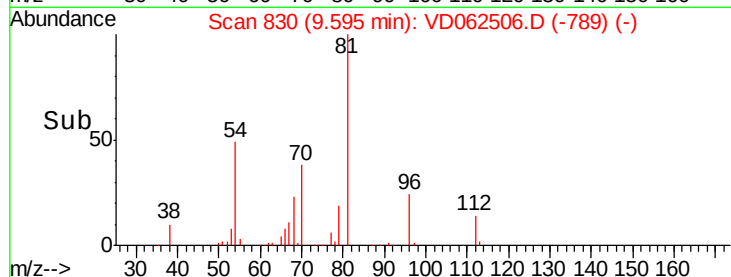
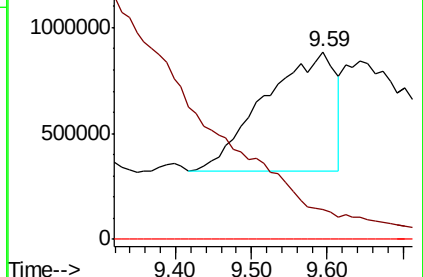
127 0.0 8.1 12.1#



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): VDC



#48

Methyl methacrylate

Concen: 26120.312 ug/l

RT: 9.17 min Scan# 787

Delta R.T. 0.03 min

Lab File: VD062506.D

Acq: 22 May 2019 16:48

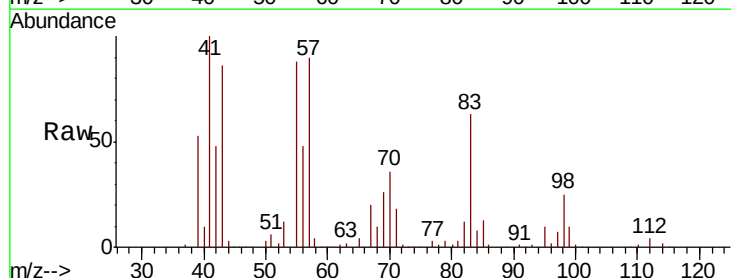
Tgt Ion: 41 Resp: 6098148

Ion Ratio Lower Upper

41 100

69 25.7 64.2 96.2#

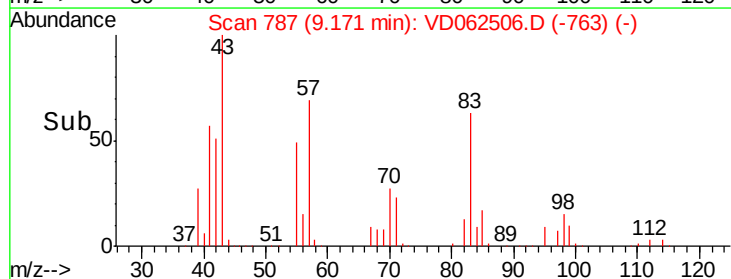
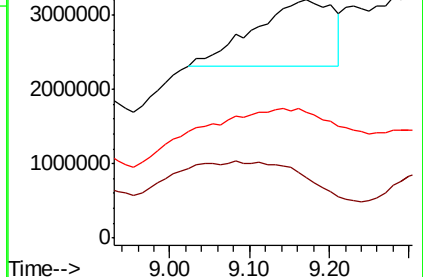
39 53.0 46.8 70.2

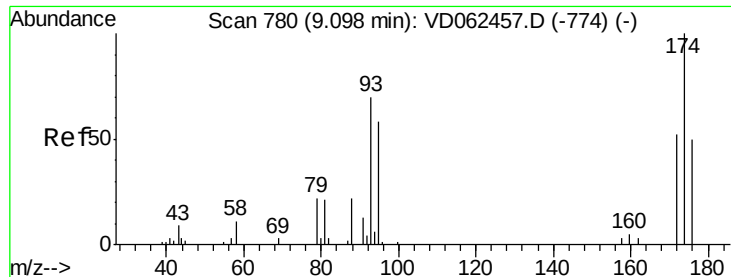


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 38.95 (38.65 to 39.65): VDC





#49

1,4-Dioxane

Concen: 85.001 ug/l

RT: 9.15 min Scan# 785

Delta R.T. 0.05 min

Lab File: VD062506.D

Acq: 22 May 2019 16:48

Instrument :
MSVOA_D
ClientSampleId :

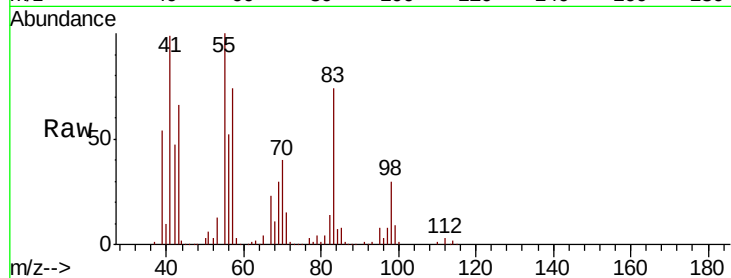
Tot Ion: 88 Resp: 178

Ion Ratio Lower Upper

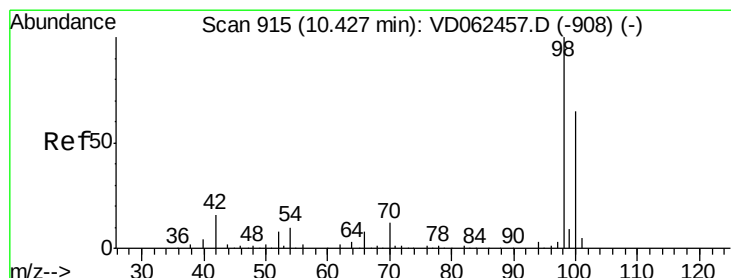
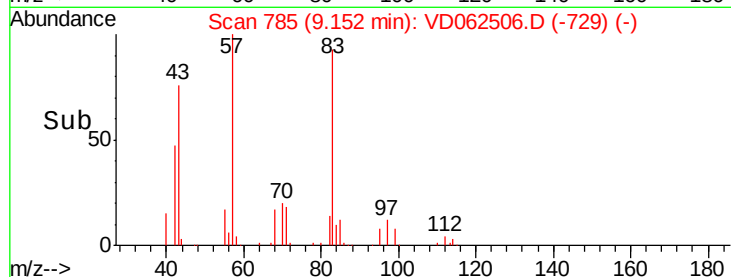
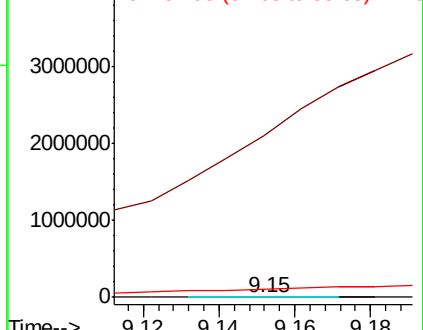
88 100

43 698599.3 23.4 35.0#

58 34097.0 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: 57.593 ug/l

RT: 10.50 min Scan# 922

Delta R.T. 0.07 min

Lab File: VD062506.D

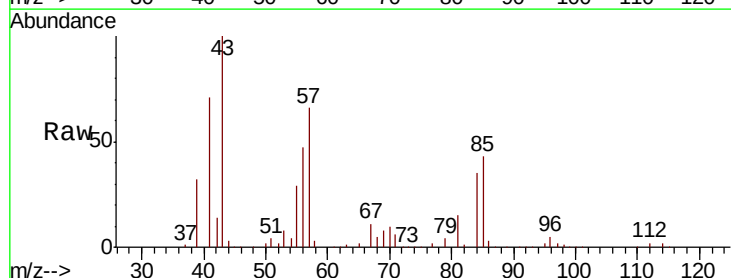
Acq: 22 May 2019 16:48

Tgt Ion: 98 Resp: 80056

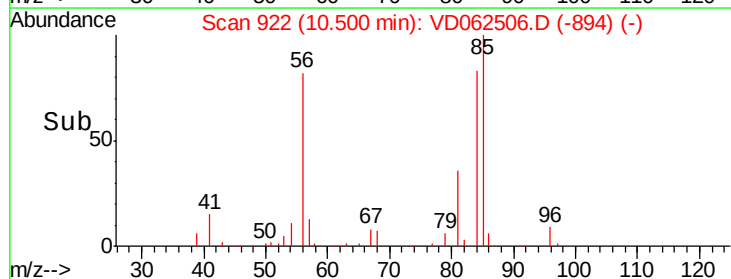
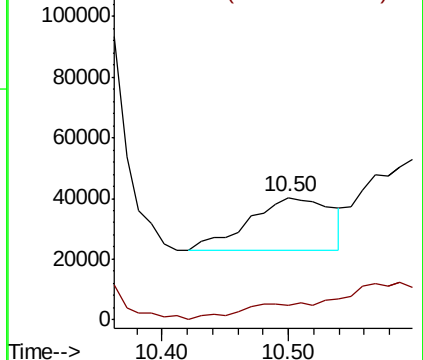
Ion Ratio Lower Upper

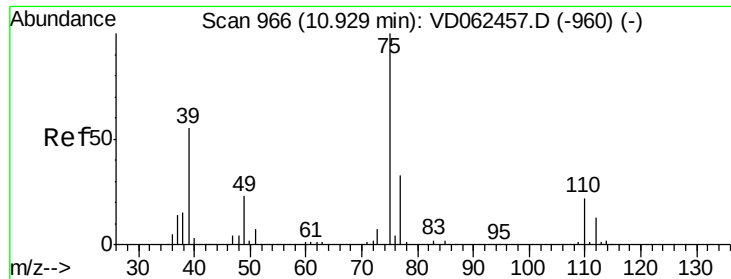
98 100

100 12.1 53.8 80.8#



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

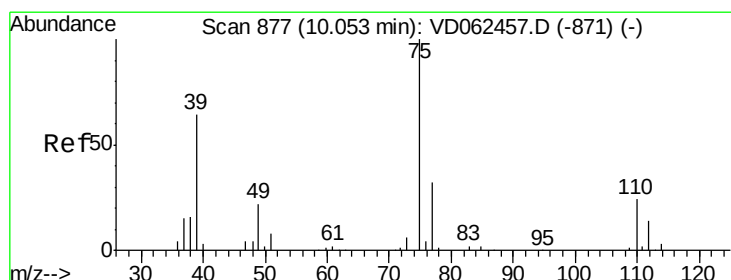
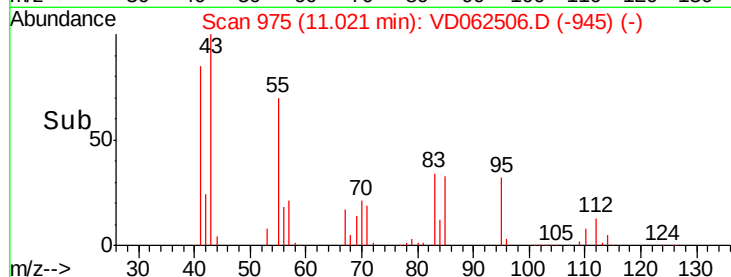
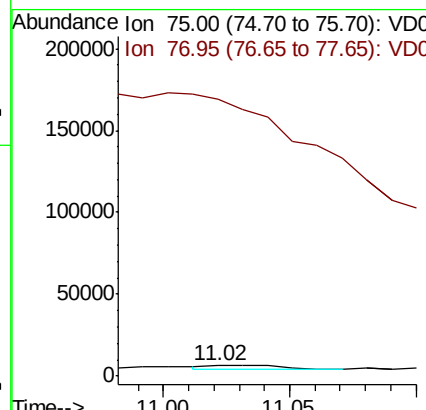
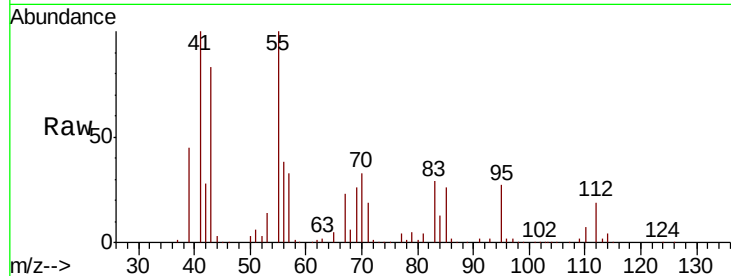




#53
t-1,3-Dichloropropene
Concen: 6.590 ug/l
RT: 11.02 min Scan# 975
Delta R.T. 0.09 min
Lab File: VD062506.D
Acq: 22 May 2019 16:48

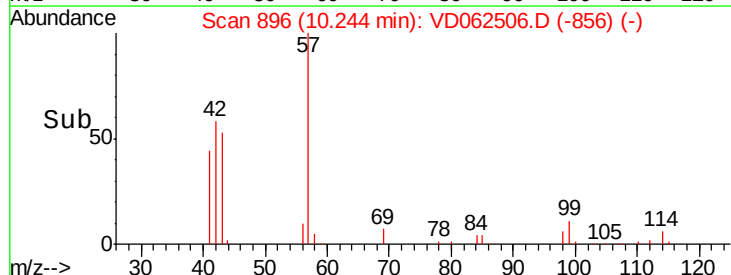
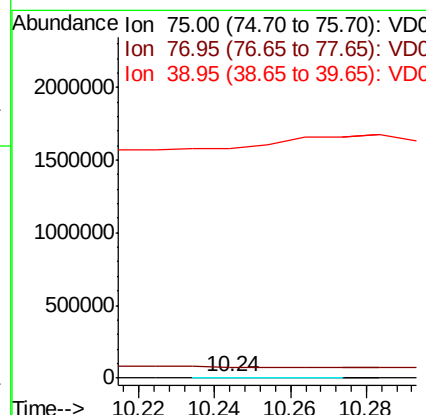
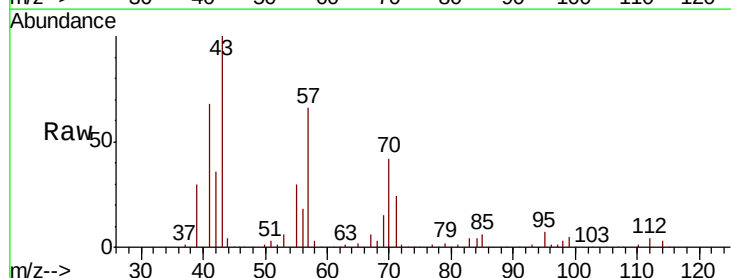
Instrument :
MSVOA_D
ClientSampleId :

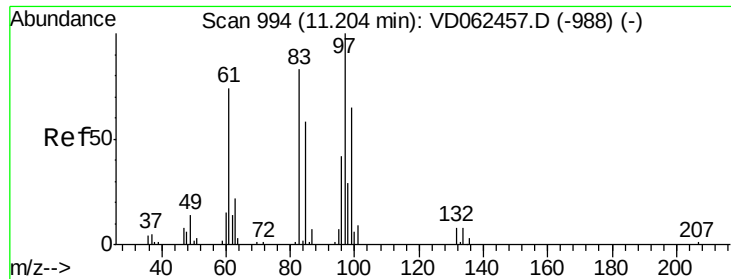
Tot Ion: 75 Resp: 4071
Ion Ratio Lower Upper
75 100
77 2628.1 25.8 38.8#



#54
cis-1,3-Dichloropropene
Concen: 1.540 ug/l
RT: 10.24 min Scan# 896
Delta R.T. 0.19 min
Lab File: VD062506.D
Acq: 22 May 2019 16:48

Tgt Ion: 75 Resp: 993
Ion Ratio Lower Upper
75 100
77 2634.3 25.5 38.3#
39 53740.0 39.4 59.2#





#55

1,1,2-Trichloroethane

Concen: 9324.254 ug/l

RT: 11.24 min Scan# 997

Delta R.T. 0.03 min

Lab File: VD062506.D

Acq: 22 May 2019 16:48

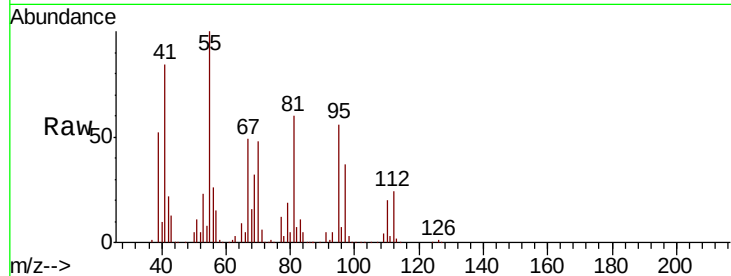
Instrument :

MSVOA_D

ClientSampled :

Tot Ion: 97 Resp: 2856612

Ion	Ratio	Lower	Upper
97	100		
83	28.8	65.7	98.5#
85	1.1	45.6	68.4#
99	1.2	48.4	72.6#



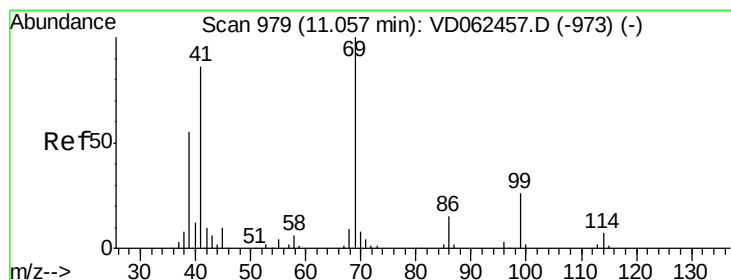
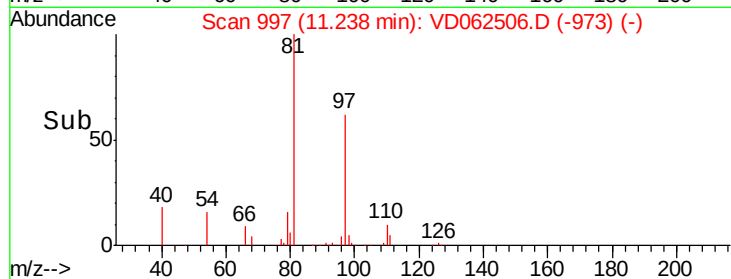
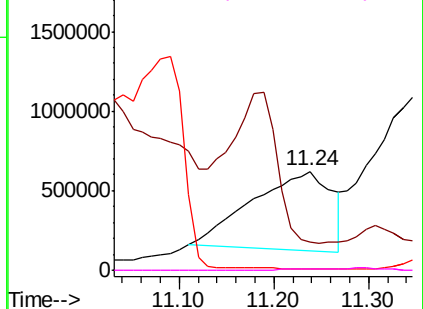
Abundance

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: 37917.110 ug/l

RT: 11.15 min Scan# 988

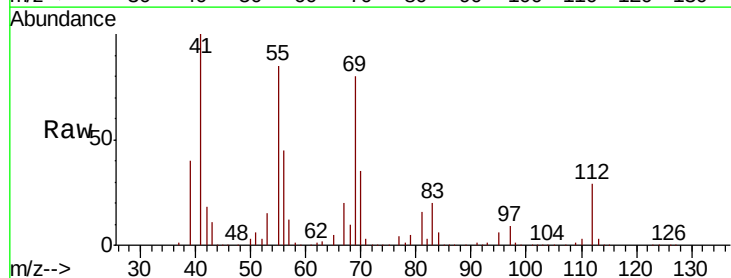
Delta R.T. 0.09 min

Lab File: VD062506.D

Acq: 22 May 2019 16:48

Tgt Ion: 69 Resp: 12418289

Ion	Ratio	Lower	Upper
69	100		
41	124.8	56.3	84.5#
39	49.8	29.4	44.2#

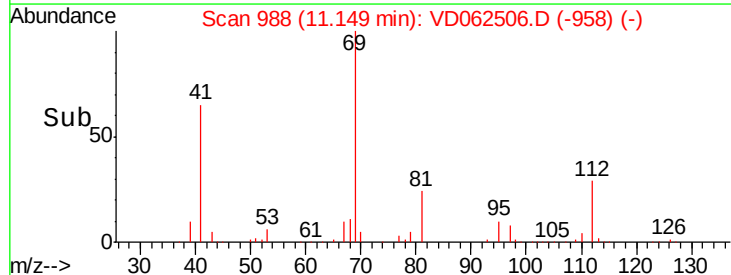
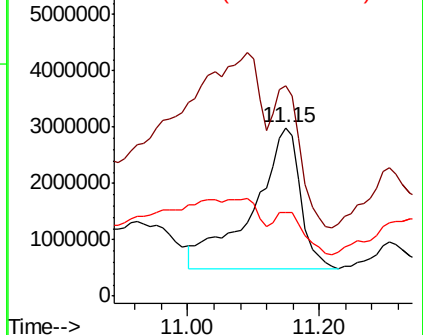


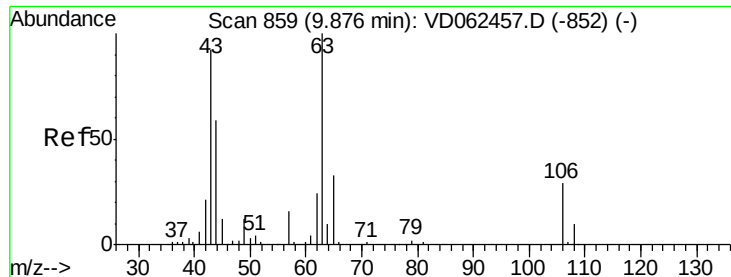
Abundance

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

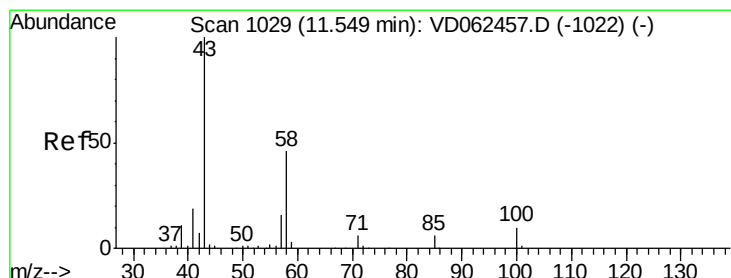
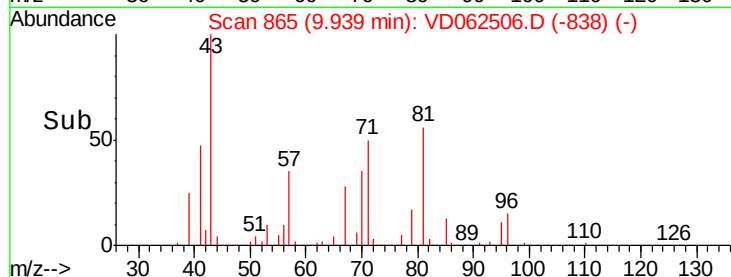
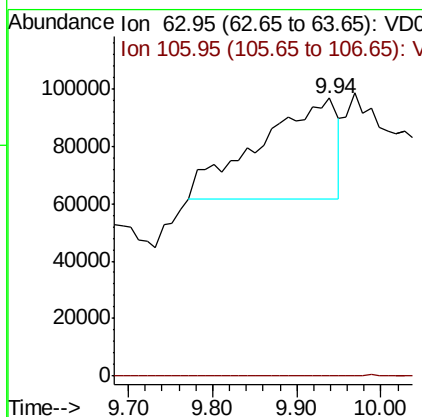
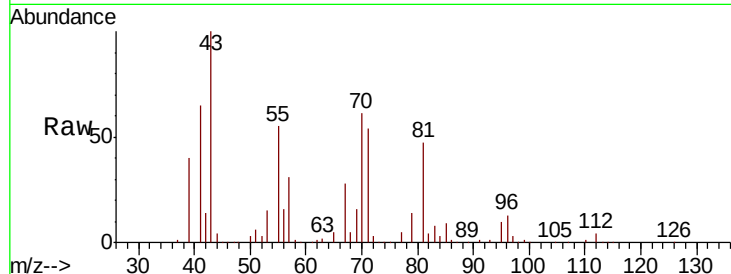




#58
 2-Chloroethyl Vinyl ether
 Concen: 1343.976 ug/l
 RT: 9.94 min Scan# 865
 Delta R.T. 0.06 min
 Lab File: VD062506.D
 Acq: 22 May 2019 16:48

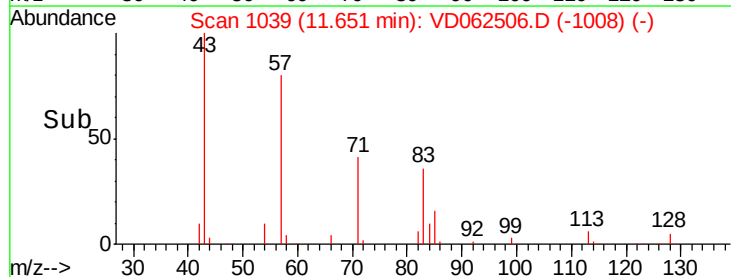
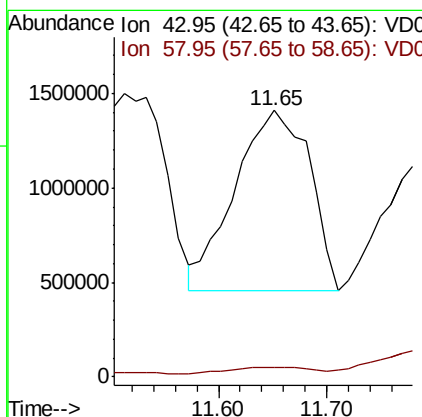
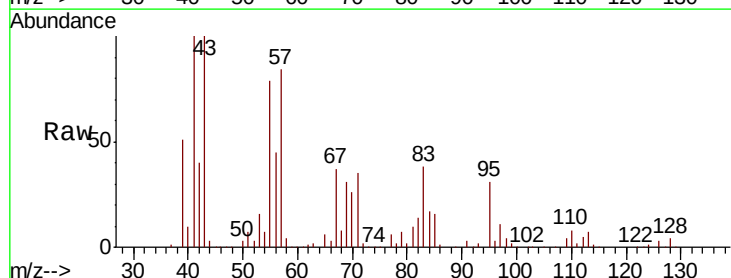
Instrument :
 MSVOA_D
 ClientSampled :

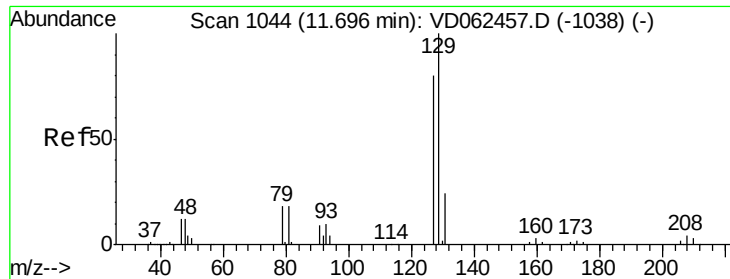
Tot Ion: 63 Resp: 226022
 Ion Ratio Lower Upper
 63 100
 106 0.0 22.6 34.0#



#59
 2-Hexanone
 Concen: 27394.273 ug/l
 RT: 11.65 min Scan# 1039
 Delta R.T. 0.10 min
 Lab File: VD062506.D
 Acq: 22 May 2019 16:48

Tgt Ion: 43 Resp: 4563021
 Ion Ratio Lower Upper
 43 100
 58 3.7 25.4 76.4#





#60

Dibromochloromethane

Concen: 41.612 ug/l

RT: 11.81 min Scan# 1055

Delta R.T. 0.11 min

Lab File: VD062506.D

Acq: 22 May 2019 16:48

Instrument :

MSVOA_D

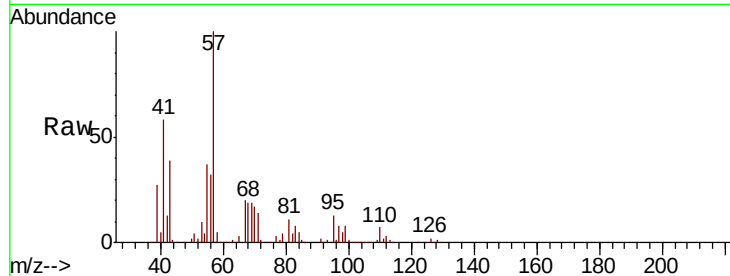
ClientSampled :

Tot Ion:129 Resp: 24486

Ion Ratio Lower Upper

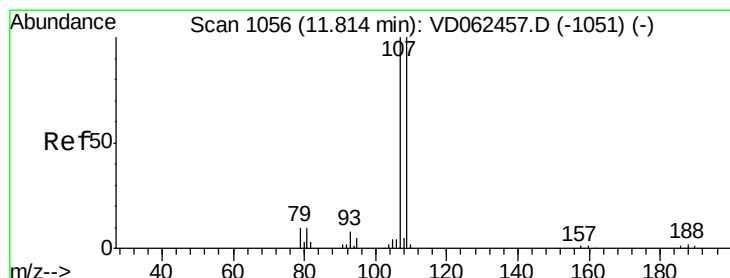
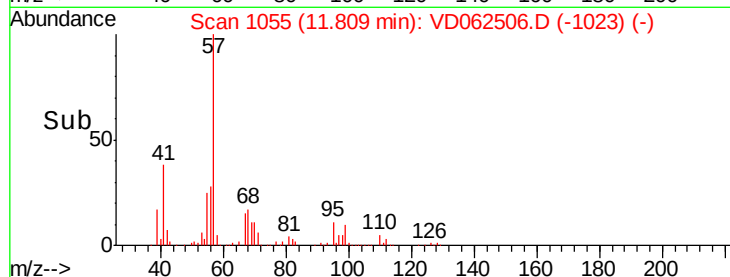
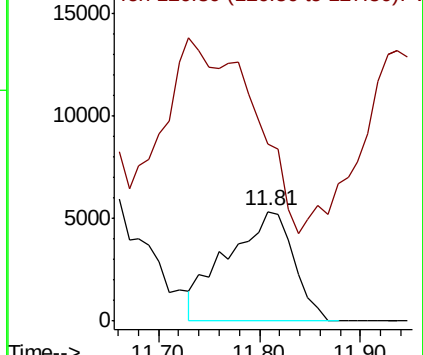
129 100

127 162.1 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: 188.108 ug/l

RT: 11.97 min Scan# 1071

Delta R.T. 0.15 min

Lab File: VD062506.D

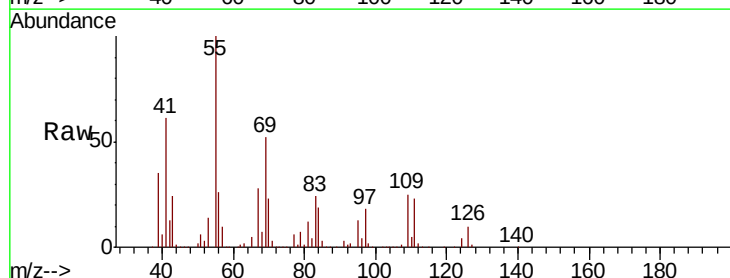
Acq: 22 May 2019 16:48

Tgt Ion:107 Resp: 71021

Ion Ratio Lower Upper

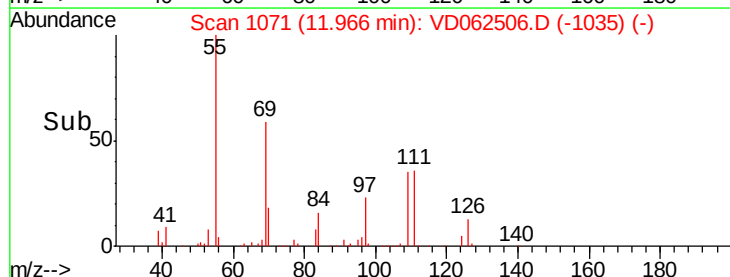
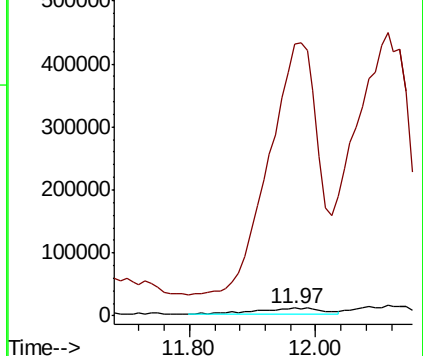
107 100

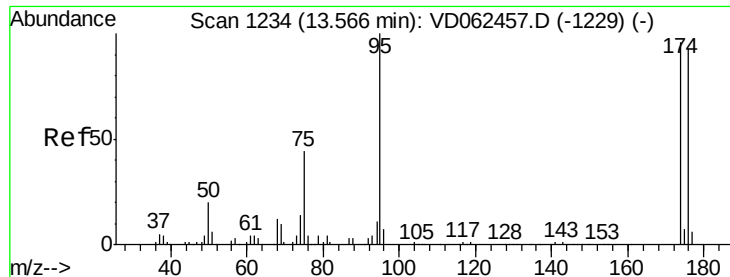
109 3406.7 78.3 117.5#



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V





#62

4-Bromofluorobenzene

Concen: 184.921 ug/l

RT: 13.64 min Scan# 1241

Delta R.T. 0.07 min

Lab File: VD062506.D

Acq: 22 May 2019 16:48

Instrument :

MSVOA_D

ClientSampled :

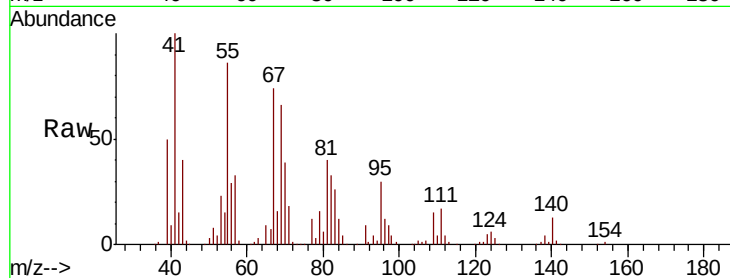
Tot Ion: 95 Resp: 112441

Ion Ratio Lower Upper

95 100

174 0.0 0.0 181.8

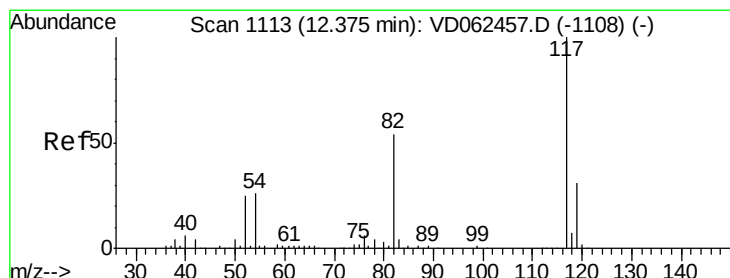
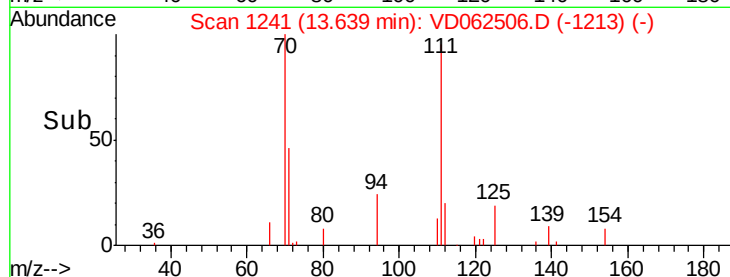
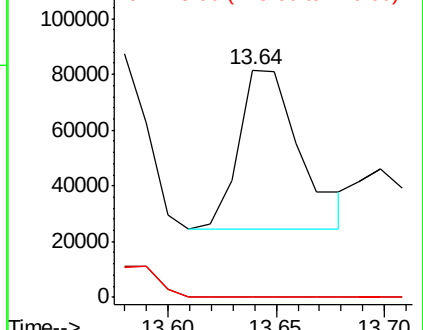
176 0.0 0.0 174.4



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: VD062506.D

Acq: 22 May 2019 16:48

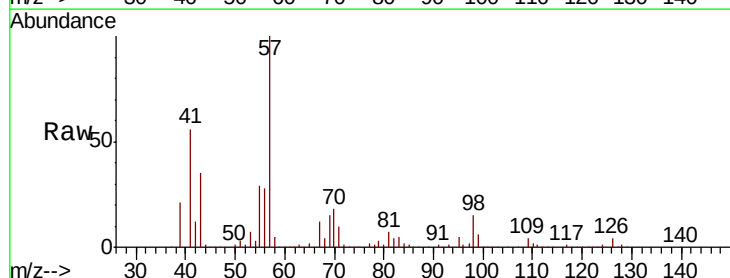
Tgt Ion: 117 Resp: 149475

Ion Ratio Lower Upper

117 100

82 611.0 36.2 54.2#

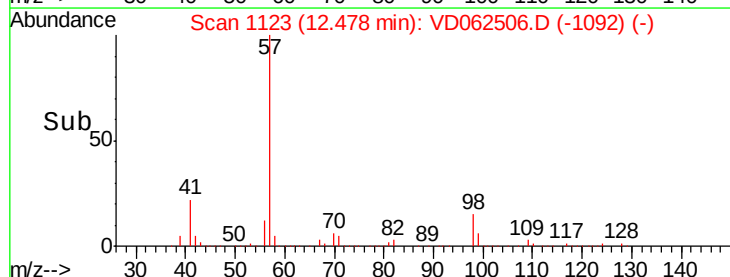
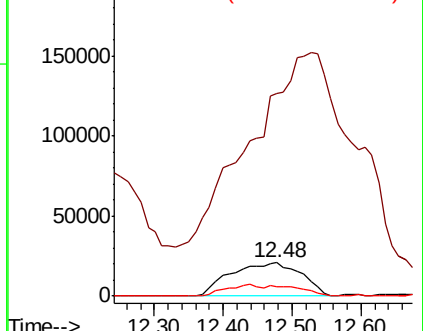
119 29.1 26.2 39.4

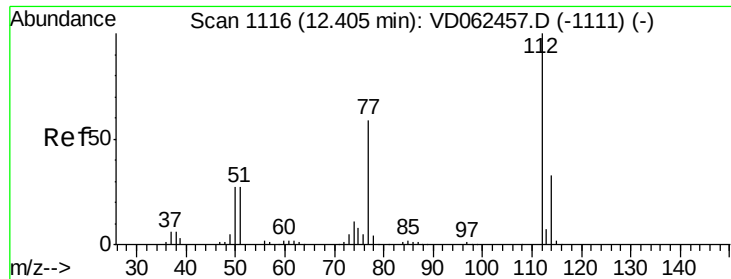


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

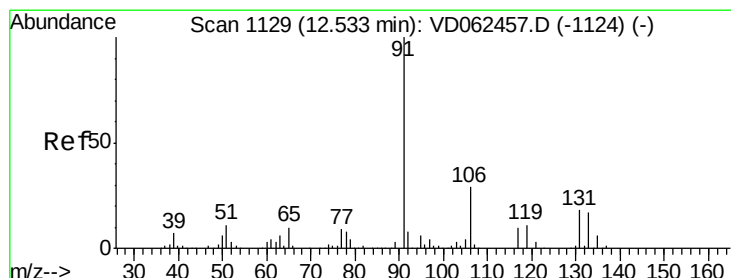
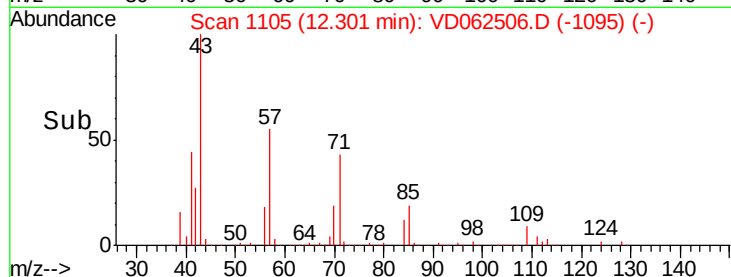
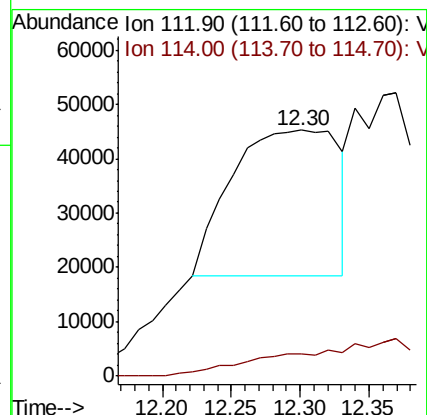
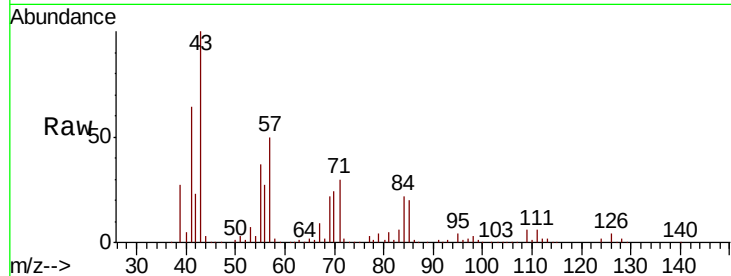




#65
Chlorobenzene
Concen: 50.369 ug/l
RT: 12.30 min Scan# 1105
Delta R.T. -0.10 min
Lab File: VD062506.D
Acq: 22 May 2019 16:48

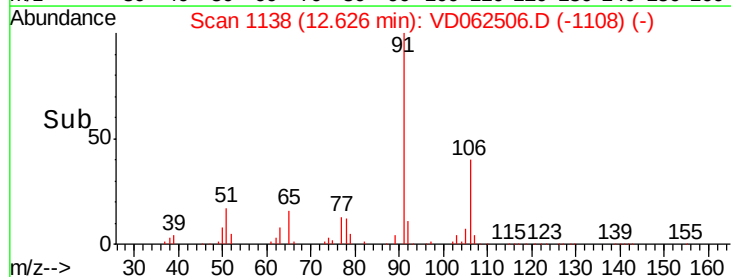
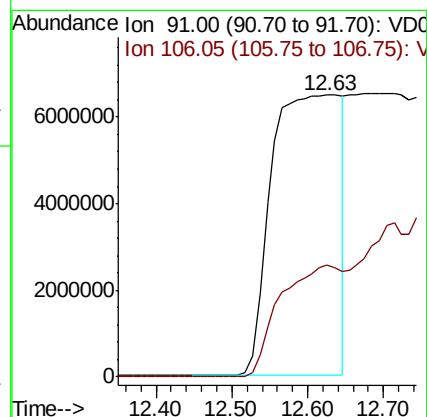
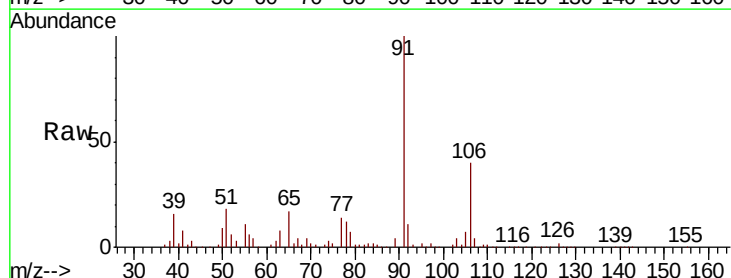
Instrument :
MSVOA_D
ClientSampled :

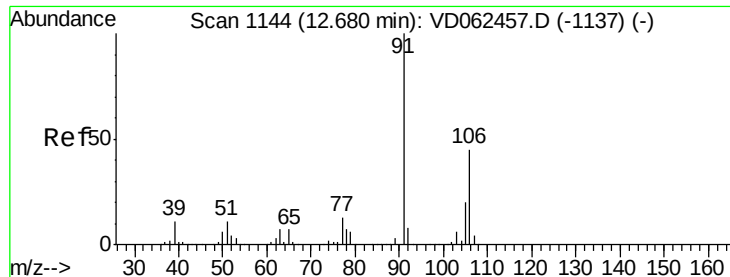
Tot Ion:112 Resp: 144784
Ion Ratio Lower Upper
112 100
114 9.1 25.8 38.8#



#67
Ethyl Benzene
Concen: 8271.489 ug/l
RT: 12.63 min Scan# 1138
Delta R.T. 0.09 min
Lab File: VD062506.D
Acq: 22 May 2019 16:48

Tgt Ion: 91 Resp:40952875
Ion Ratio Lower Upper
91 100
106 39.6 24.7 37.1#

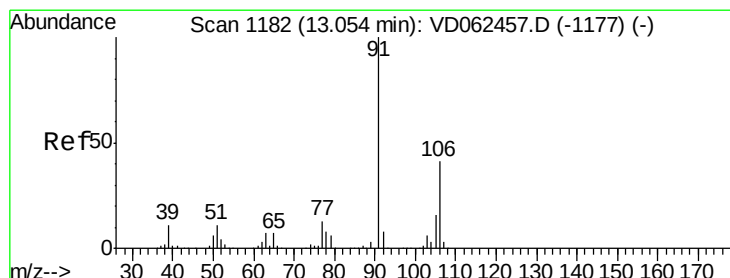
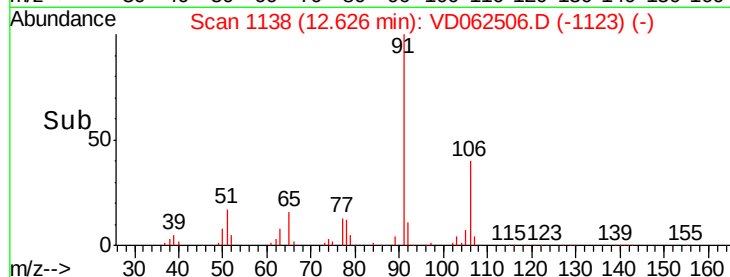
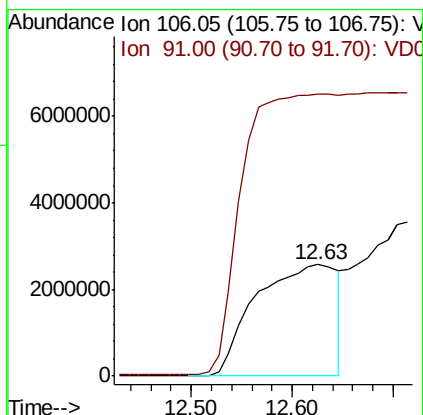
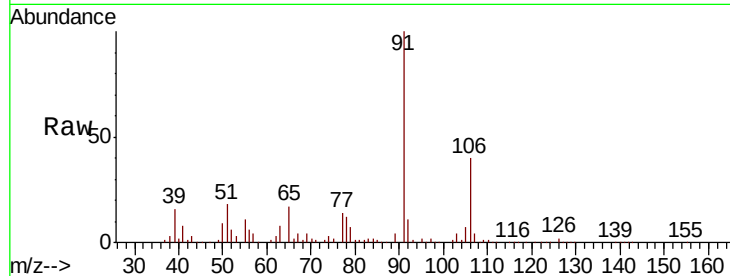




#68
m/p-Xylenes
Concen: 8085.513 ug/l
RT: 12.63 min Scan# 1138
Delta R.T. -0.05 min
Lab File: VD062506.D
Acq: 22 May 2019 16:48

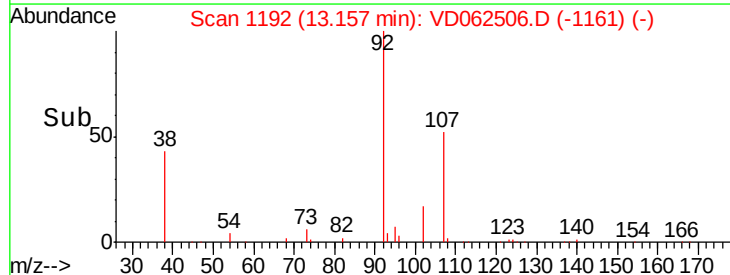
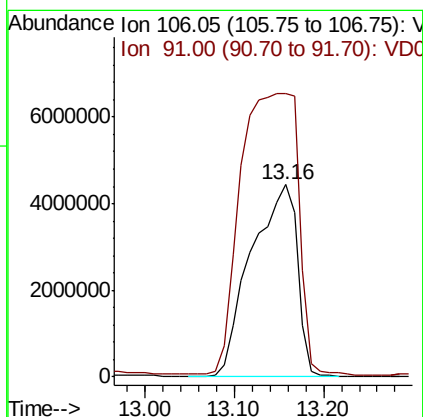
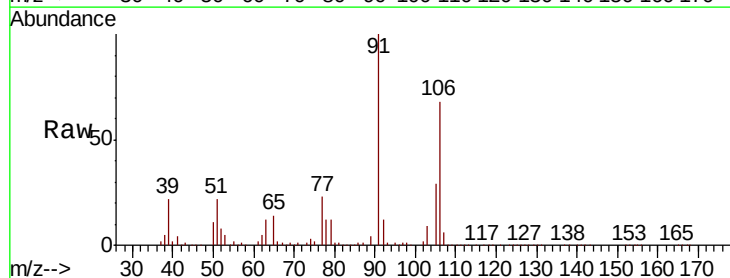
Instrument :
MSVOA_D
ClientSampleId :

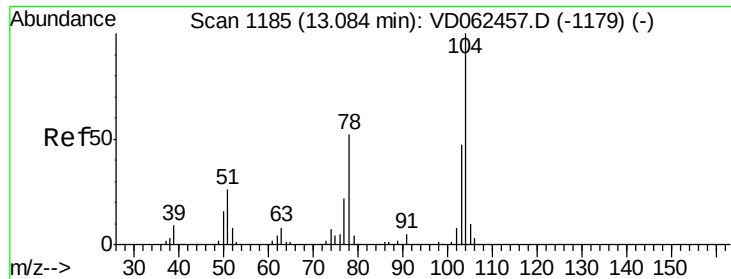
Tot Ion:106 Resp:14369950
Ion Ratio Lower Upper
106 100
91 252.8 164.0 246.0#



#69
o-Xylene
Concen: 9442.231 ug/l
RT: 13.16 min Scan# 1192
Delta R.T. 0.10 min
Lab File: VD062506.D
Acq: 22 May 2019 16:48

Tgt Ion:106 Resp:15833490
Ion Ratio Lower Upper
106 100
91 147.4 106.7 319.9





#70

Stvrene

Concen: 41.384 ug/l

RT: 13.11 min Scan# 1187

Delta R.T. 0.02 min

Lab File: VD062506.D

Acq: 22 May 2019 16:48

Instrument :

MSVOA_D

ClientSampled :

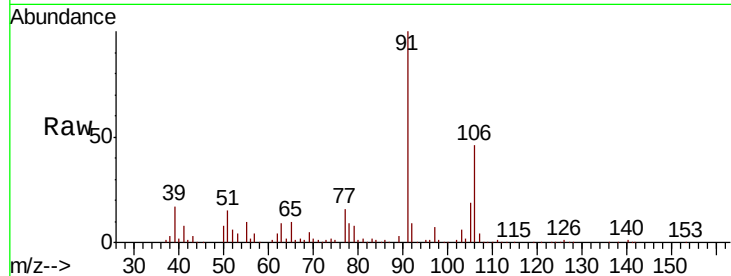
Tot Ion:104 Resp: 118055

Ion Ratio Lower Upper

104 100

78 350.2 35.4 53.2#

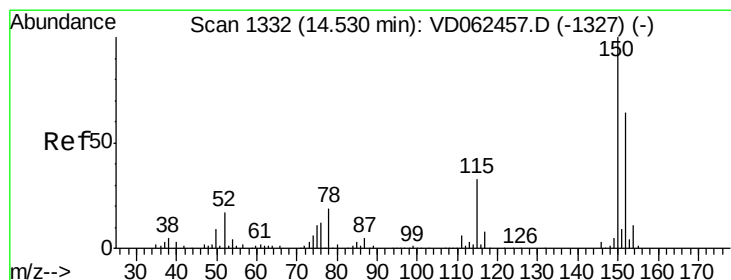
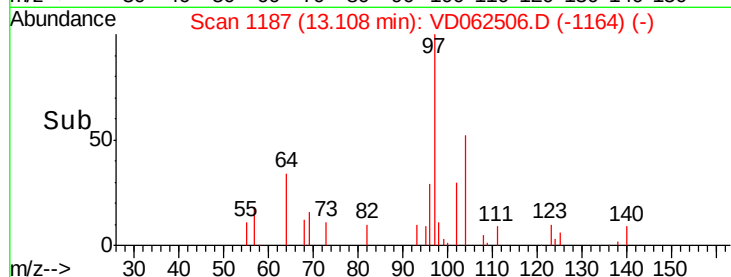
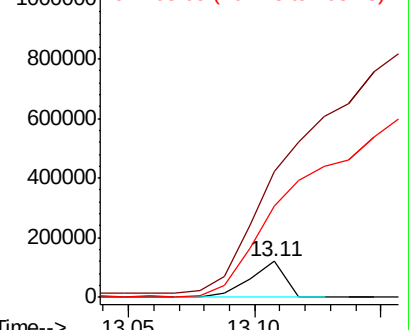
103 253.3 37.5 56.3#



Abundance Ion 104.05 (103.75 to 104.75): V

Ion 77.95 (77.65 to 78.65): VD

Ion 103.05 (102.75 to 103.75): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1331

Delta R.T. -0.01 min

Lab File: VD062506.D

Acq: 22 May 2019 16:48

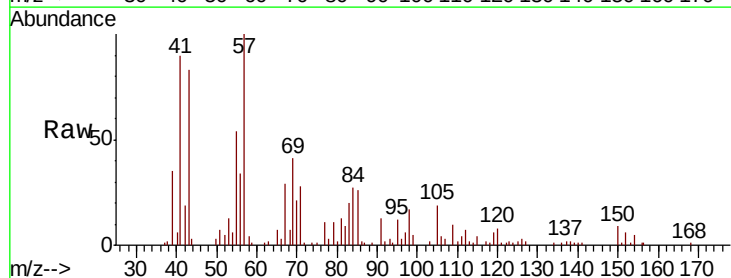
Tgt Ion:152 Resp: 4454

Ion Ratio Lower Upper

152 100

115 62.4 30.9 92.7

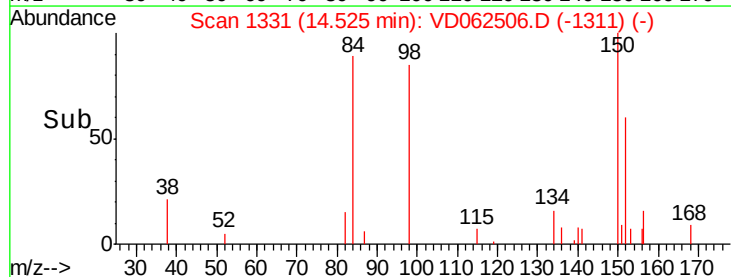
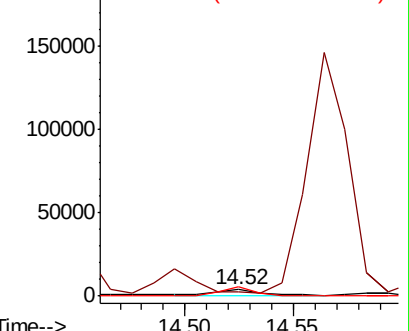
150 143.6 0.0 314.8

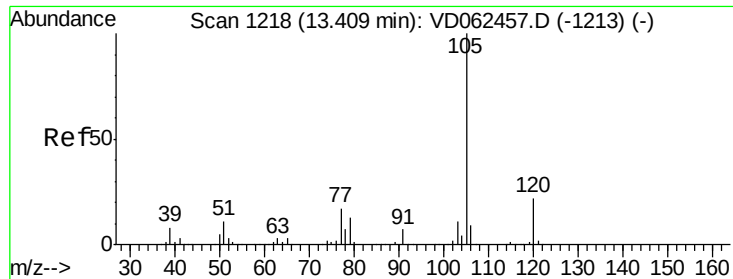


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 37082.017 ug/l

RT: 13.44 min Scan# 1221

Delta R.T. 0.03 min

Lab File: VD062506.D

Acq: 22 May 2019 16:48

Instrument :

MSVOA_D

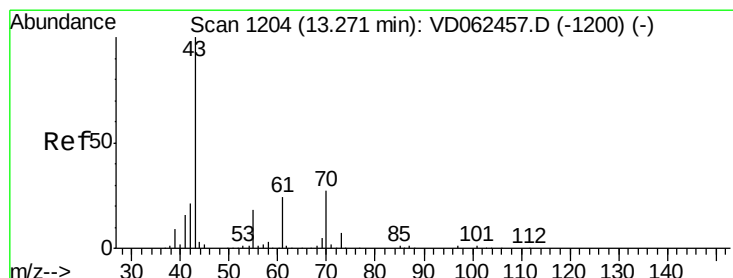
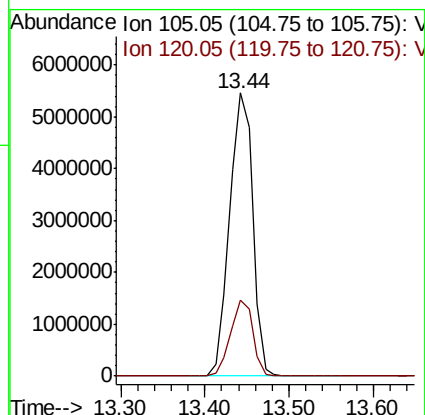
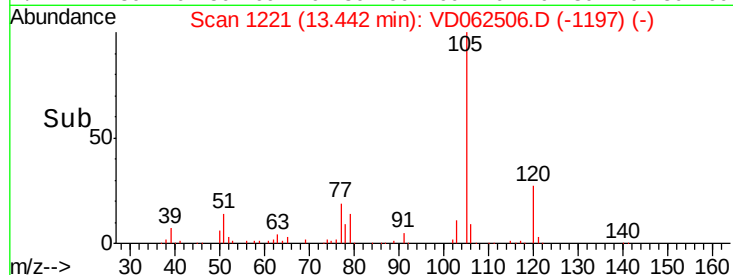
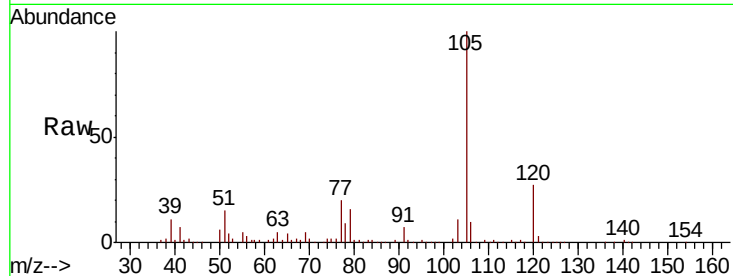
ClientSampleId :

Tot Ion:105 Resp:10410868

Ion Ratio Lower Upper

105 100

120 26.6 12.0 36.1



#74

N-ethyl acetate

Concen: 12967.924 ug/l

RT: 13.26 min Scan# 1202

Delta R.T. -0.02 min

Lab File: VD062506.D

Acq: 22 May 2019 16:48

Tgt Ion: 43 Resp: 899210

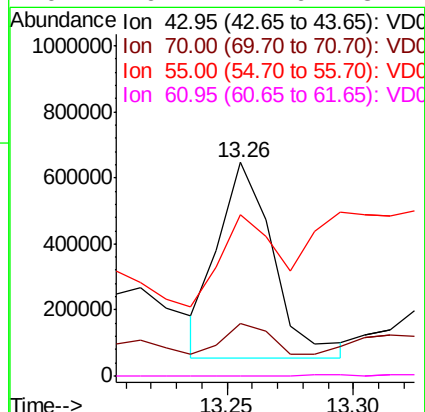
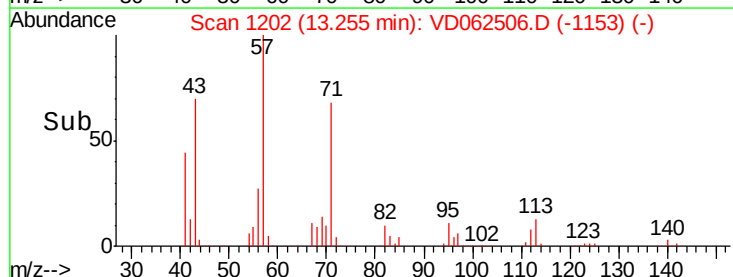
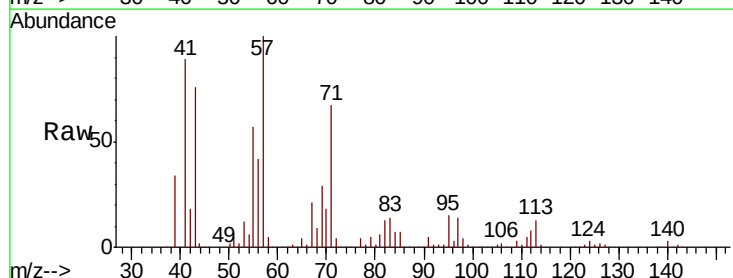
Ion Ratio Lower Upper

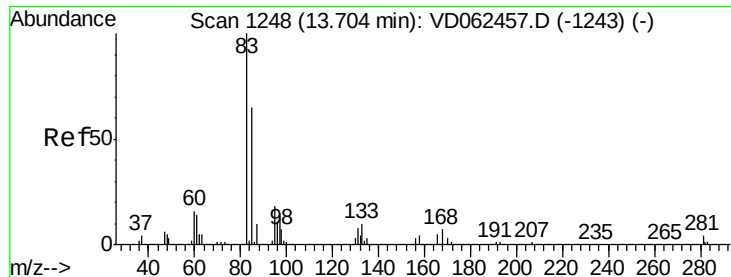
43 100

70 24.3 24.2 36.4

55 75.8 16.0 24.0#

61 0.2 21.6 32.4#





#75

1,1,2,2-Tetrachloroethane

Concen: 1678.169 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. -0.01 min

Lab File: VD062506.D

Acq: 22 May 2019 16:48

Instrument :

MSVOA_D

ClientSampled :

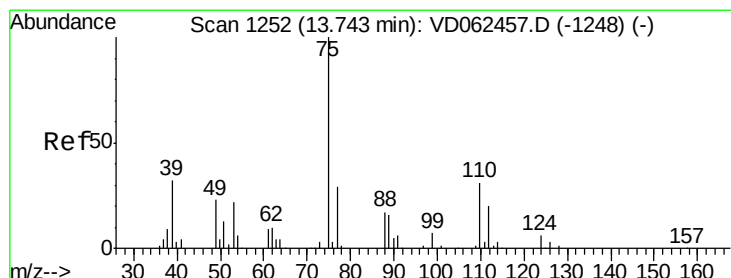
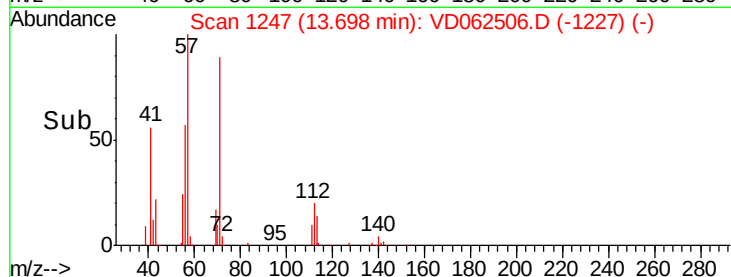
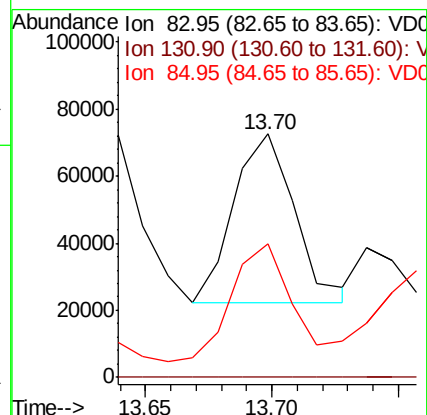
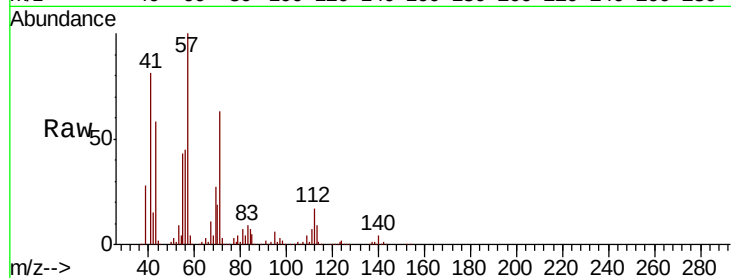
Tot Ion: 83 Resp: 84999

Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

85 54.9 32.6 97.7



#76

1,2,3-Trichloropropane

Concen: 1773.253 ug/l

RT: 13.80 min Scan# 1257

Delta R.T. 0.05 min

Lab File: VD062506.D

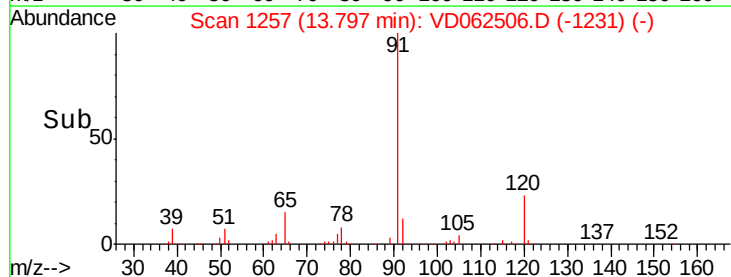
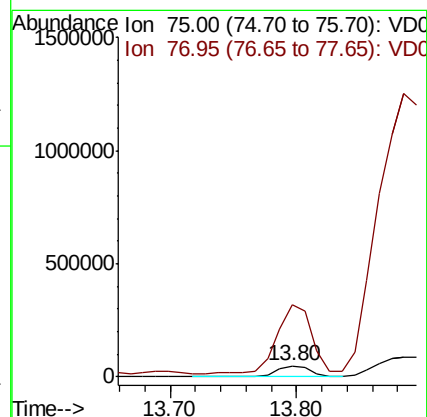
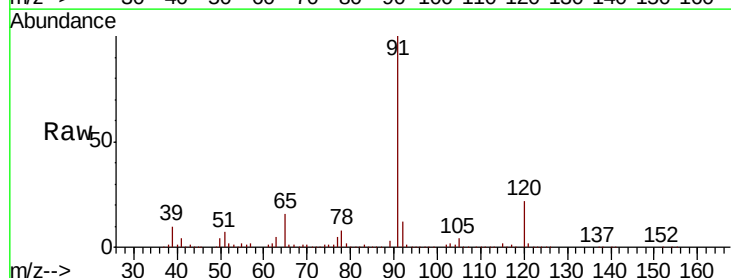
Acq: 22 May 2019 16:48

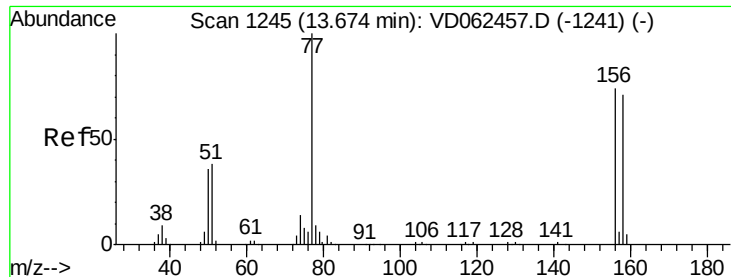
Tgt Ion: 75 Resp: 93030

Ion Ratio Lower Upper

75 100

77 654.7 16.4 49.4#





#77

Bromobenzene

Concen: 12.556 ug/l

RT: 13.60 min Scan# 1237

Delta R.T. -0.07 min

Lab File: VD062506.D

Acq: 22 May 2019 16:48

Instrument :

MSVOA_D

ClientSampled :

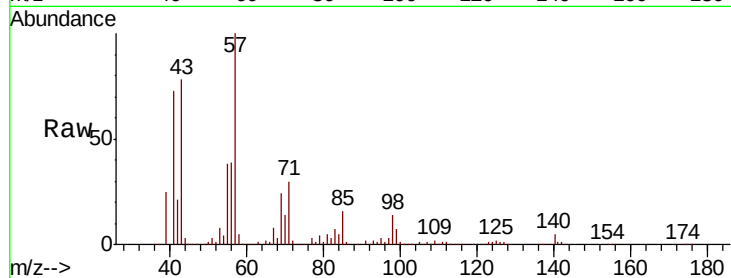
Tot Ion:156 Resp: 1000

Ion Ratio Lower Upper

156 100

77 5443.2 53.1 159.4#

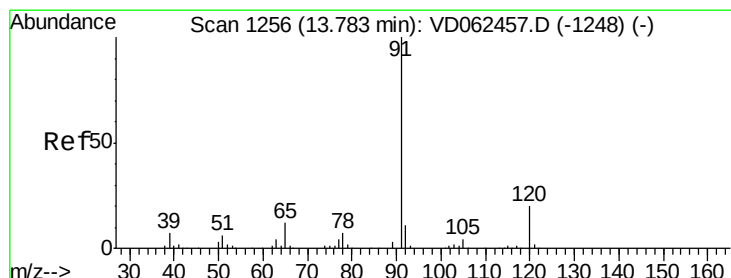
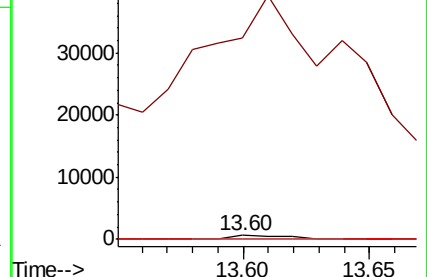
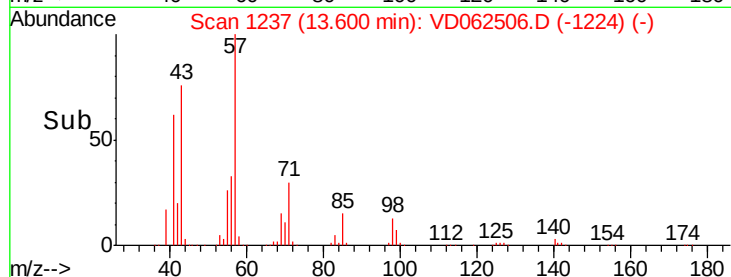
158 0.0 49.4 148.0#



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: 36756.242 ug/l

RT: 13.80 min Scan# 1257

Delta R.T. 0.01 min

Lab File: VD062506.D

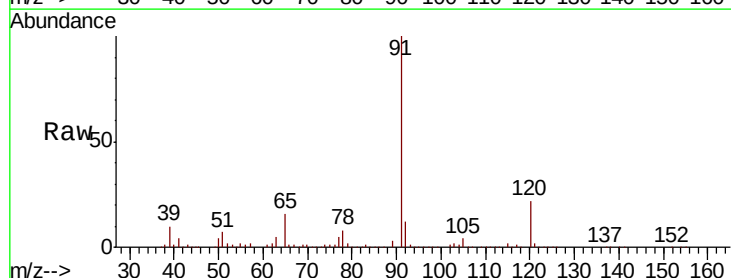
Acq: 22 May 2019 16:48

Tgt Ion: 91 Resp:11953313

Ion Ratio Lower Upper

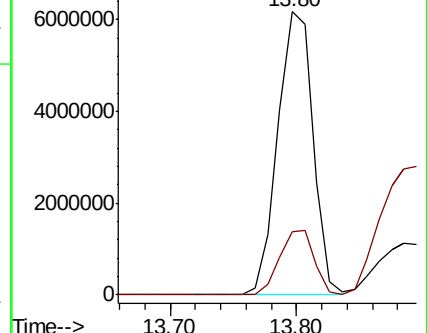
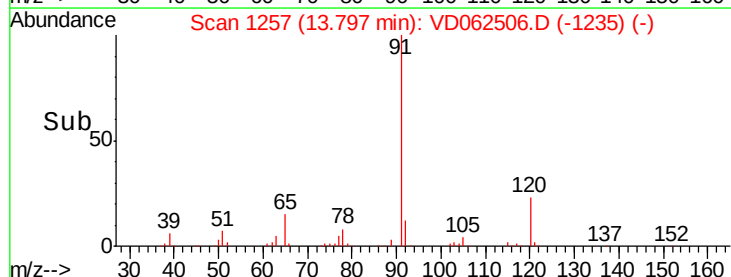
91 100

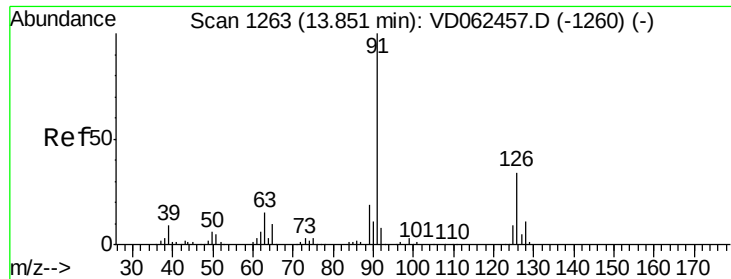
120 22.5 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

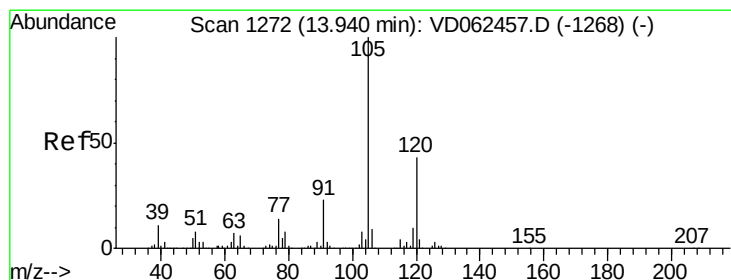
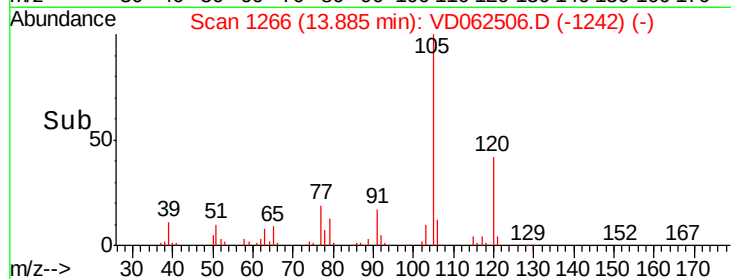
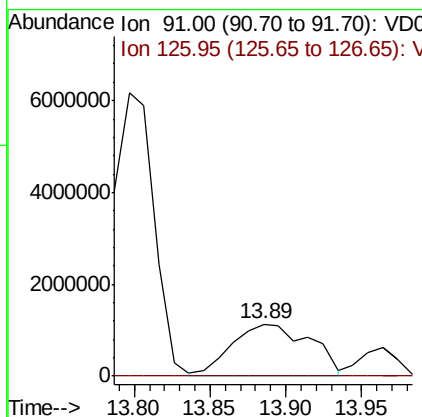
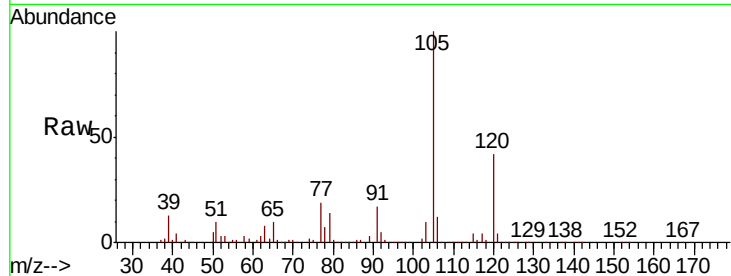




#79
 2-Chlorotoluene
 Concen: 20224.074 ug/l
 RT: 13.89 min Scan# 1266
 Delta R.T. 0.03 min
 Lab File: VD062506.D
 Acq: 22 May 2019 16:48

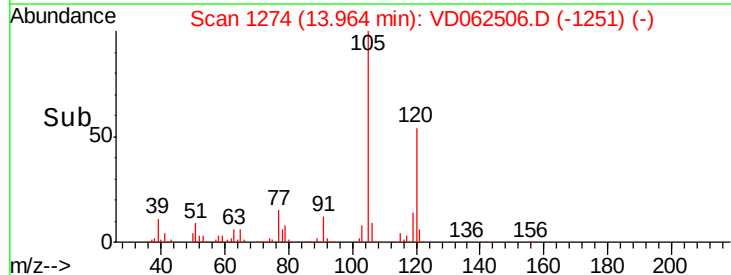
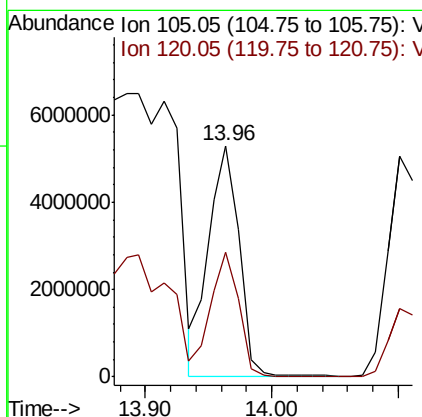
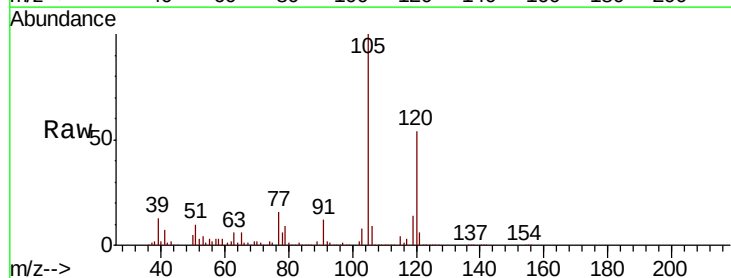
Instrument :
 MSVOA_D
 ClientSampleId :

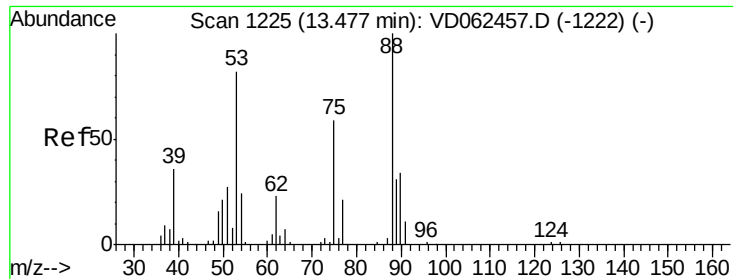
Tot Ion: 91 Resp: 3991306
 Ion Ratio Lower Upper
 91 100
 126 0.1 18.6 55.8#



#80
 1,3,5-Trimethylbenzene
 Concen: 36319.424 ug/l
 RT: 13.96 min Scan# 1274
 Delta R.T. 0.02 min
 Lab File: VD062506.D
 Acq: 22 May 2019 16:48

Tgt Ion:105 Resp: 8828869
 Ion Ratio Lower Upper
 105 100
 120 53.8 24.0 72.0

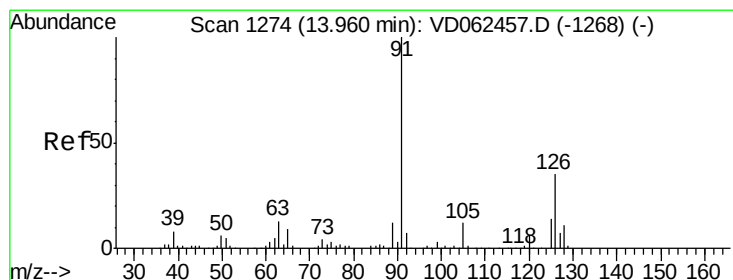
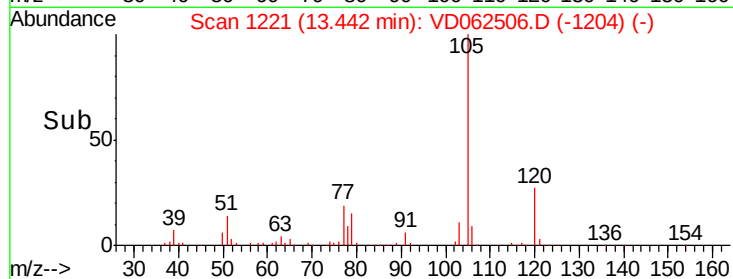
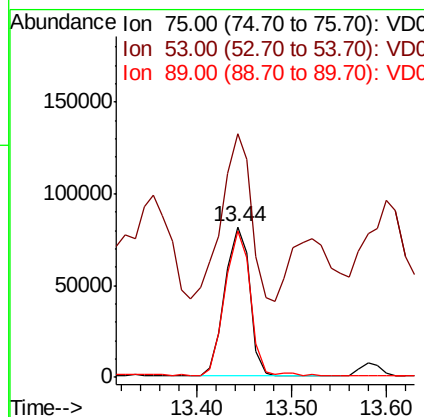
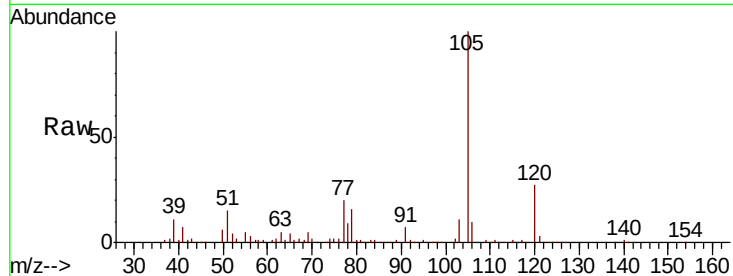




#81
 trans-1,4-Dichloro-2-butene
 Concen: 10085.453 ug/l
 RT: 13.44 min Scan# 1221
 Delta R.T. -0.04 min
 Lab File: VD062506.D
 Acq: 22 May 2019 16:48

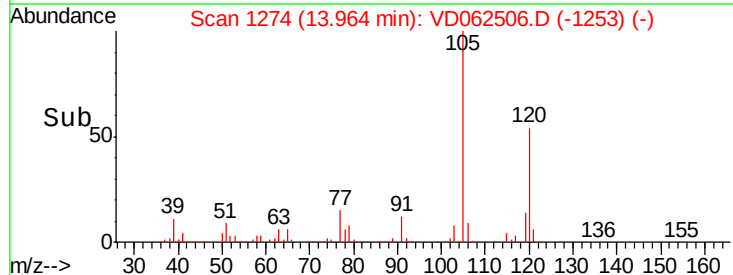
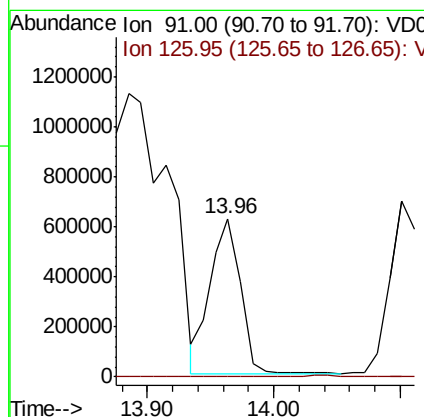
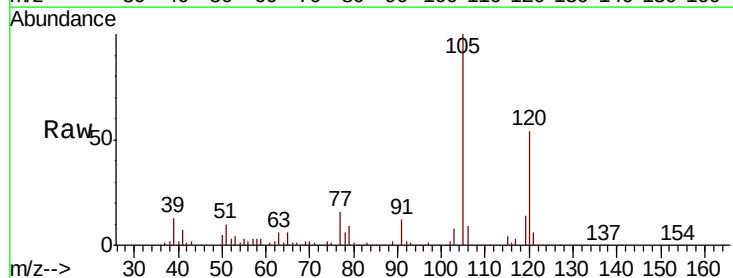
Instrument :
 MSVOA_D
 ClientSampled :

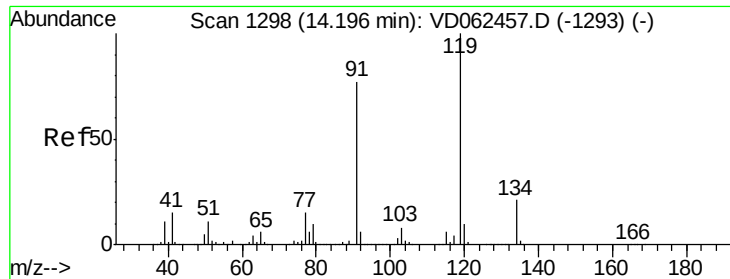
Tot Ion: 75 Resp: 149224
 Ion Ratio Lower Upper
 75 100
 53 161.7 65.8 98.8#
 89 97.1 35.0 52.6#



#82
 4-Chlorotoluene
 Concen: 4561.480 ug/l
 RT: 13.96 min Scan# 1274
 Delta R.T. 0.00 min
 Lab File: VD062506.D
 Acq: 22 May 2019 16:48

Tgt Ion: 91 Resp: 1036748
 Ion Ratio Lower Upper
 91 100
 126 0.1 19.1 57.5#





#83

tert-Butylbenzene

Concen: 8283.937 ug/l

RT: 14.27 min Scan# 1305

Delta R.T. 0.07 min

Lab File: VD062506.D

Acq: 22 May 2019 16:48

Instrument :

MSVOA_D

ClientSampleId :

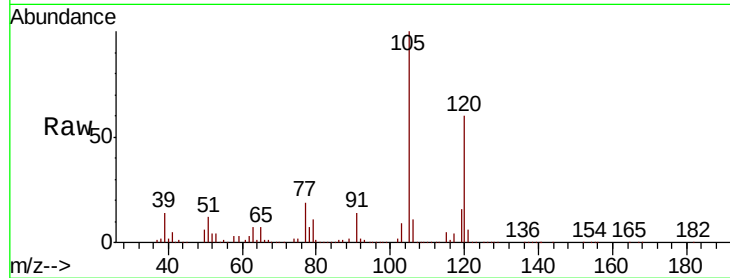
Tot Ion:119 Resp: 2233714

Ion Ratio Lower Upper

119 100

91 87.1 34.2 102.6

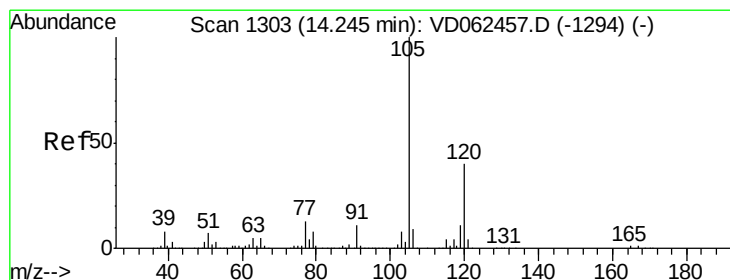
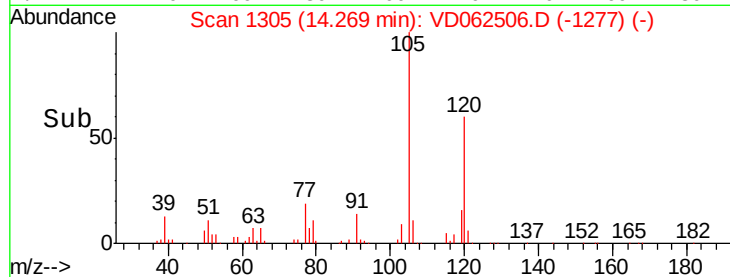
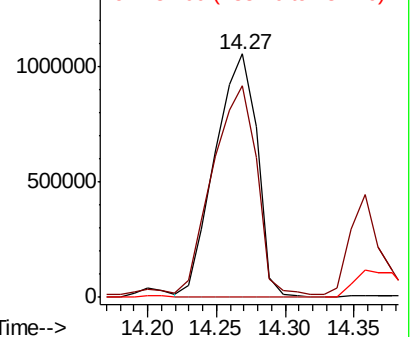
134 0.0 12.0 36.0#



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 64174.497 ug/l

RT: 14.27 min Scan# 1305

Delta R.T. 0.02 min

Lab File: VD062506.D

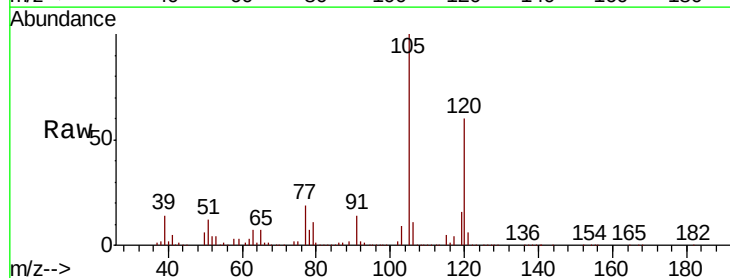
Acq: 22 May 2019 16:48

Tgt Ion:105 Resp:15985091

Ion Ratio Lower Upper

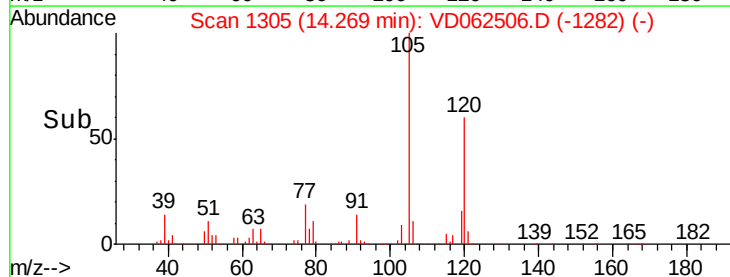
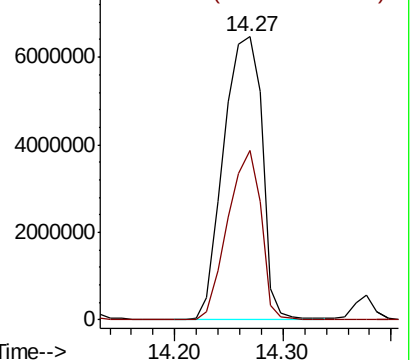
105 100

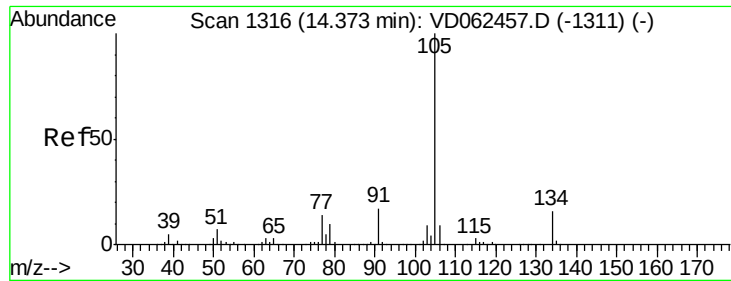
120 59.8 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

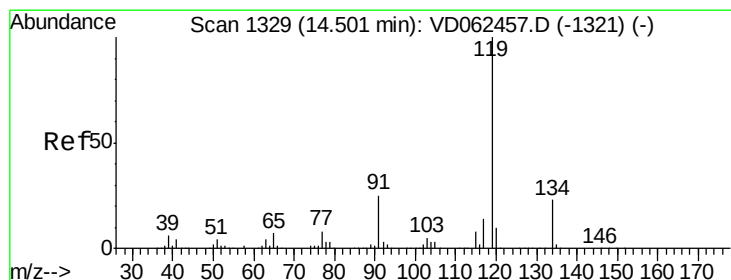
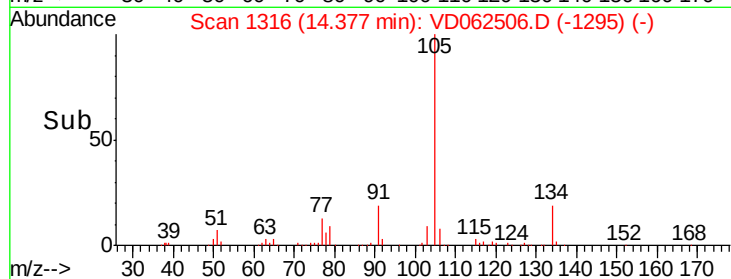
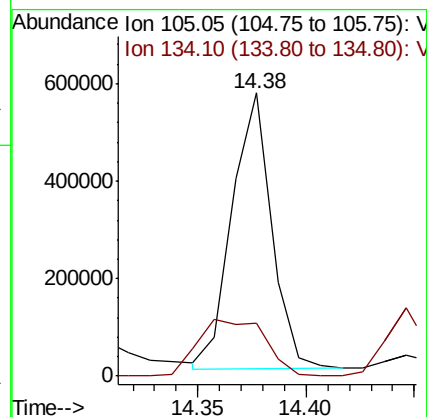
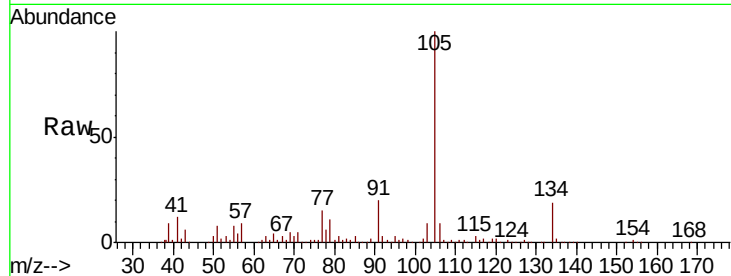




#85
 sec-Butylbenzene
 Concen: 2570.142 ug/l
 RT: 14.38 min Scan# 1316
 Delta R.T. 0.00 min
 Lab File: VD062506.D
 Acq: 22 May 2019 16:48

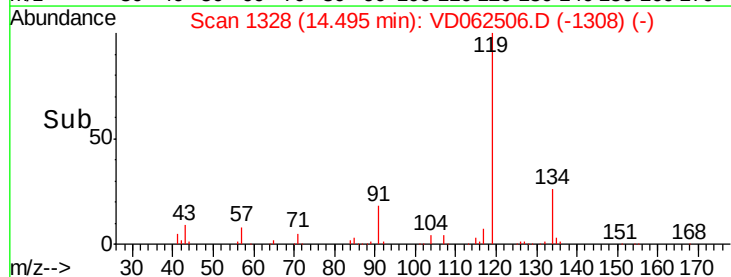
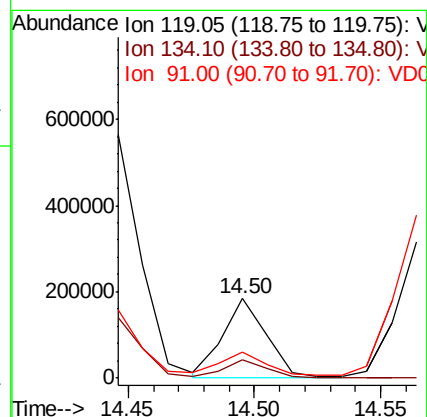
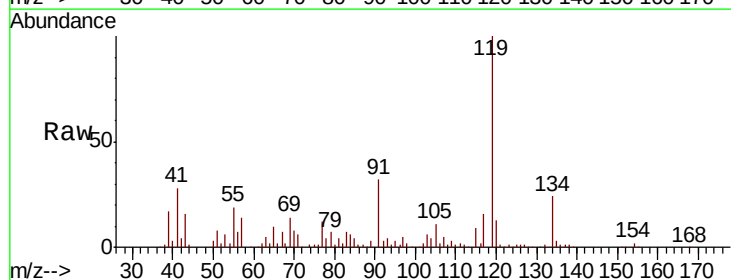
Instrument :
 MSVOA_D
 ClientSampleId :

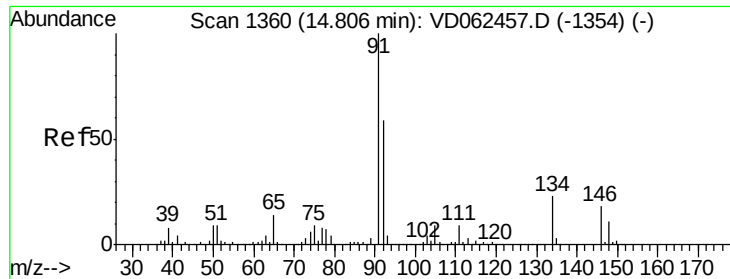
Tot Ion:105 Resp: 722625
 Ion Ratio Lower Upper
 105 100
 134 18.5 8.9 26.7



#86
 p-Isopropyltoluene
 Concen: 846.858 ug/l
 RT: 14.50 min Scan# 1328
 Delta R.T. -0.01 min
 Lab File: VD062506.D
 Acq: 22 May 2019 16:48

Tgt Ion:119 Resp: 215776
 Ion Ratio Lower Upper
 119 100
 134 23.5 12.8 38.3
 91 31.9 10.7 32.1





#89

n-Butylbenzene

Concen: 3983.268 ug/l

RT: 14.80 min Scan# 1359

Delta R.T. -0.01 min

Lab File: VD062506.D

Acq: 22 May 2019 16:48

Instrument :

MSVOA_D

ClientSampleId :

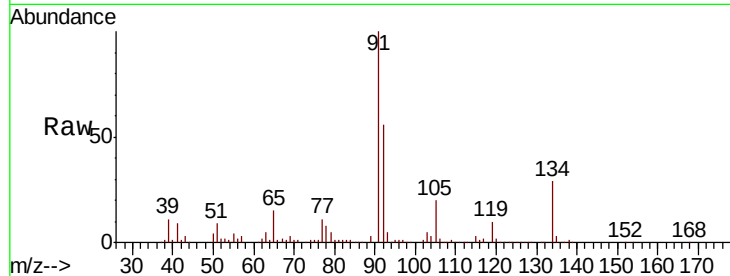
Tot Ion: 91 Resp: 979484

Ion Ratio Lower Upper

91 100

92 56.1 30.3 91.0

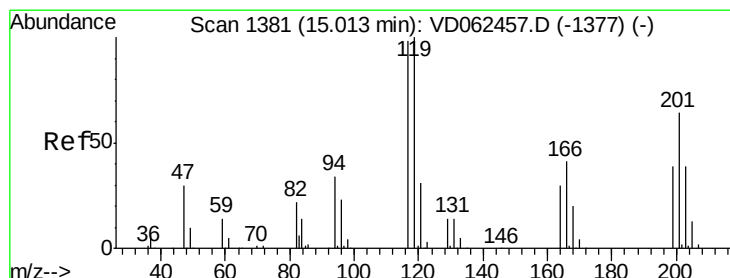
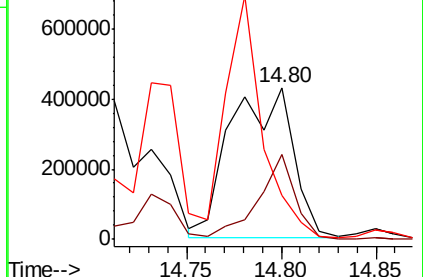
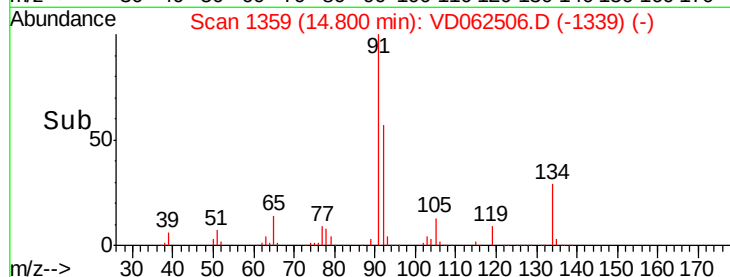
134 28.7 14.5 43.6



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: 2423.357 ug/l

RT: 14.98 min Scan# 1377

Delta R.T. -0.04 min

Lab File: VD062506.D

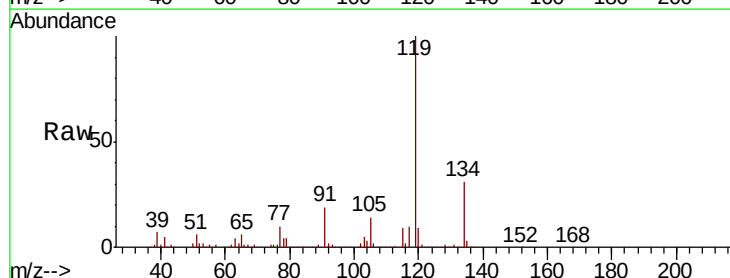
Acq: 22 May 2019 16:48

Tgt Ion: 117 Resp: 170646

Ion Ratio Lower Upper

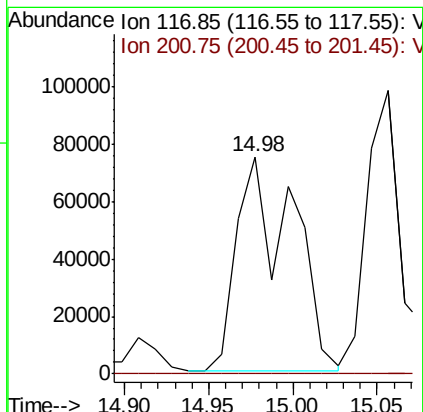
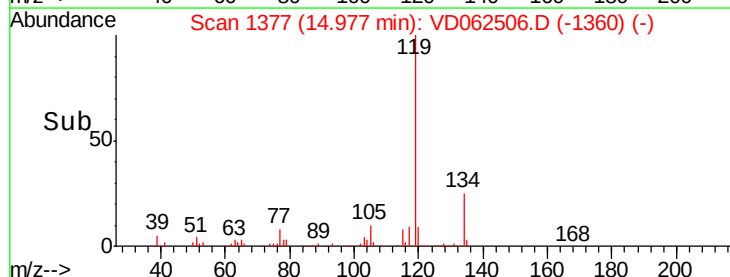
117 100

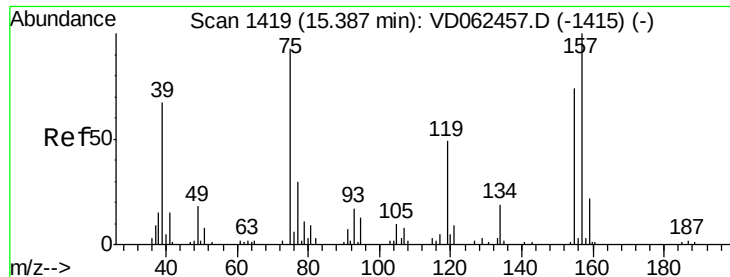
201 0.0 30.2 90.6#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V

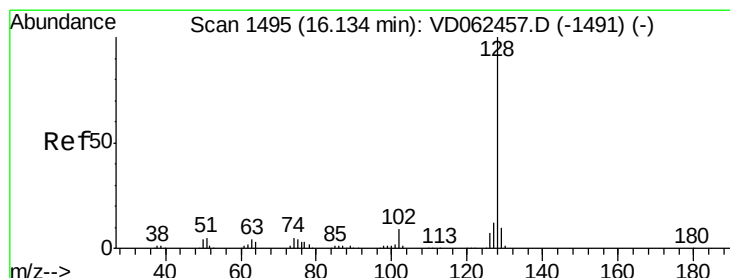
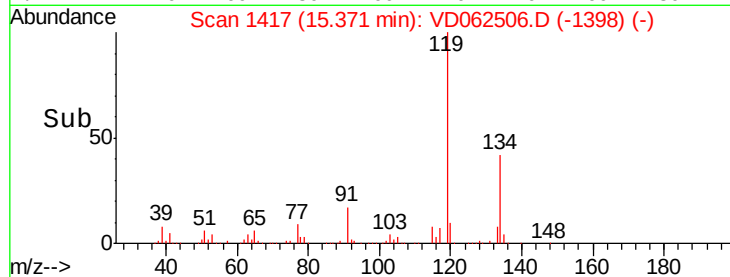
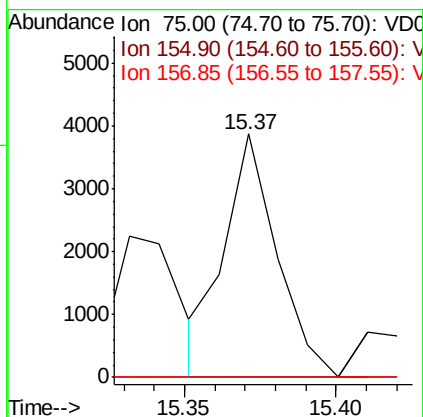
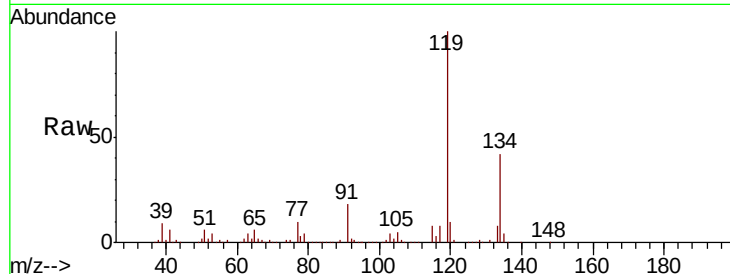




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 485.540 ug/l
 RT: 15.37 min Scan# 1417
 Delta R.T. -0.02 min
 Lab File: VD062506.D
 Acq: 22 May 2019 16:48

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion: 75 Resp: 4668
 Ion Ratio Lower Upper
 75 100
 155 0.0 55.3 165.8#
 157 0.0 67.8 203.2#



#95
 Naphthalene
 Concen: 1468.915 ug/l
 RT: 16.12 min Scan# 1493
 Delta R.T. -0.02 min
 Lab File: VD062506.D
 Acq: 22 May 2019 16:48

Tgt Ion: 128 Resp: 189007
 Ion Ratio Lower Upper
 128 100
 127 12.9 9.8 14.8
 129 10.8 8.8 13.2

