

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
 Data File : VD062504.D
 Acq On : 22 May 2019 15:54
 Operator : VA/AP
 Sample : K2996-03
 Misc : 5.40g/5ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 P-2(4.5-5.0)

Quant Time: May 23 03:13:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 03:32:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.10	168	50109	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	8.31	114	69654	50.00	ug/l	0.08
63) Chlorobenzene-d5	12.49	117	117018	50.00	ug/l	0.11
72) 1,4-Dichlorobenzene-d4	14.52	152	4819	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.48	65	53613	99.95	ug/l	0.01
Spiked Amount	50.000		Recovery	=	199.90%	
35) Dibromofluoromethane	6.94	113	94789	150.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	301.70%	
50) Toluene-d8	10.56	98	106481	77.43	ug/l	0.13
Spiked Amount	50.000		Recovery	=	154.86%	
62) 4-Bromofluorobenzene	13.71	95	53870	89.56	ug/l	0.14
Spiked Amount	50.000		Recovery	=	179.12%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.55	85	208	Below Cal	#	42
3) Chloromethane	1.69	50	3441	9.913	ug/l #	43
6) Chloroethane	2.37	64	5934	33.581	ug/l #	1
8) Diethyl Ether	2.74	74	198	1.739	ug/l #	1
11) Tert butyl alcohol	4.12	59	1063	42.935	ug/l #	1
13) Acrolein	3.00	56	360846	17550.215	ug/l #	1
15) Acrylonitrile	4.25	53	74038	1305.026	ug/l #	44
16) Acetone	3.22	43	4173074	43415.651	ug/l #	59
17) Carbon Disulfide	3.35	76	59637	53.064	ug/l	96
19) Methyl tert-butyl Ether	4.35	73	4150	4.842	ug/l #	1
20) Methylene Chloride	3.78	84	72652	195.333	ug/l #	1
22) Diisopropyl ether	5.14	45	1180	1.013	ug/l #	1
24) 1,1-Dichloroethane	4.99	63	7771	10.360	ug/l #	85
28) Bromochloromethane	6.54	49	1554	5.772	ug/l #	1
29) Tetrahydrofuran	6.74	42	535855	11160.731	ug/l #	1
30) Chloroform	6.67	83	4231127	4424.603	ug/l #	33
36) 1,1-Dichloropropene	7.18	75	3616	5.430	ug/l #	1
38) Carbon Tetrachloride	7.22	117	1703	1.721	ug/l #	12
39) Methylcyclohexane	9.04	83	4605384	8384.591	ug/l #	54
40) Benzene	7.60	78	1103629	844.883	ug/l #	67
41) Methacrylonitrile	6.49	41	228538	703.377	ug/l #	71
42) 1,2-Dichloroethane	7.65	62	4584	6.627	ug/l #	1
43) Isopropyl Acetate	9.31	43	35879474	104543.489	ug/l #	44
45) 1,2-Dichloropropane	9.08	63	12646	39.726	ug/l #	1
46) Dibromomethane	9.15	93	48011	166.384	ug/l #	1
47) Bromodichloromethane	9.57	83	2358162	3212.497	ug/l #	95
48) Methyl methacrylate	9.20	41	1420093	6148.731	ug/l #	61
49) 1,4-Dioxane	8.94	88	664	320.524	ug/l #	1
52) Toluene	10.71	92	969989	1084.709	ug/l	92
53) t-1,3-Dichloropropene	11.06	75	11235	18.384	ug/l #	1
54) cis-1,3-Dichloropropene	10.09	75	22042	34.565	ug/l #	1
55) 1,1,2-Trichloroethane	11.26	97	4683051	15451.833	ug/l #	31
56) Ethyl methacrylate	11.19	69	12064155	37235.626	ug/l #	78
58) 2-Chloroethyl Vinyl ether	9.88	63	96207	578.277	ug/l #	46

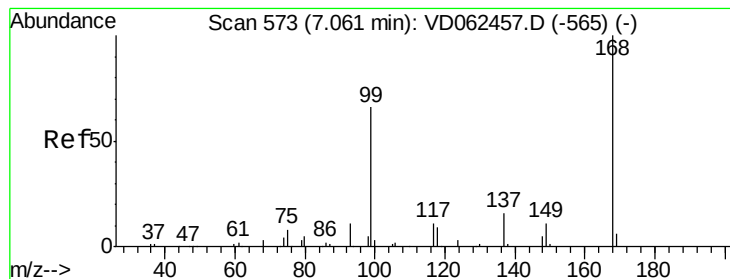
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 Quant Title : SW846 8260
 QLast Update : Tue May 21 03:32:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 2-Hexanone	11.69	43	7253977	44022.202	ug/l #	32
60) Dibromochloromethane	11.68	129	29665	50.961	ug/l	60
61) 1,2-Dibromoethane	11.98	107	89828	240.503	ug/l #	1
65) Chlorobenzene	12.47	112	42603	18.932	ug/l #	50
68) m/p-Xylenes	12.66	106	21611350	15532.812	ug/l	93
69) o-Xylene	13.11	106	879552	670.001	ug/l	90
70) Styrene	13.11	104	50929	22.805	ug/l #	1
73) Isopropylbenzene	13.44	105	15632891	51464.647	ug/l	85
74) N-amyl acetate	13.25	43	1438466	19173.537	ug/l #	49
75) 1,1,2,2-Tetrachloroethane	13.70	83	162634	2967.745	ug/l #	81
76) 1,2,3-Trichloropropane	13.80	75	116089	2045.182	ug/l #	1
77) Bromobenzene	13.61	156	826	9.586	ug/l #	1
78) n-propylbenzene	13.80	91	13931933	39595.649	ug/l	90
79) 2-Chlorotoluene	13.80	91	13931933	65246.660	ug/l #	38
80) 1,3,5-Trimethylbenzene	13.96	105	12233562	46513.614	ug/l	87
81) trans-1,4-Dichloro-2-buten	13.44	75	230003	14367.576	ug/l #	11
82) 4-Chlorotoluene	13.96	91	1410566	5736.134	ug/l #	37
83) tert-Butylbenzene	14.28	119	3151819	10803.483	ug/l #	70
84) 1,2,4-Trimethylbenzene	14.28	105	20270403	75214.752	ug/l	74
85) sec-Butylbenzene	14.38	105	1016307	3340.892	ug/l	99
86) p-Isopropyltoluene	14.45	119	653898	2371.979	ug/l	91
89) n-Butylbenzene	14.80	91	1604797	6031.921	ug/l	95
90) Hexachloroethane	14.98	117	290994	3819.431	ug/l #	20
91) 1,2-Dichlorobenzene	14.88	146	180	1.391	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	15.37	75	7358	707.370	ug/l #	1
95) Naphthalene	16.12	128	305230	2192.499	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.10 min Scan# 577

Delta R.T. 0.04 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

Instrument :

MSVOA_D

ClientSampleId :

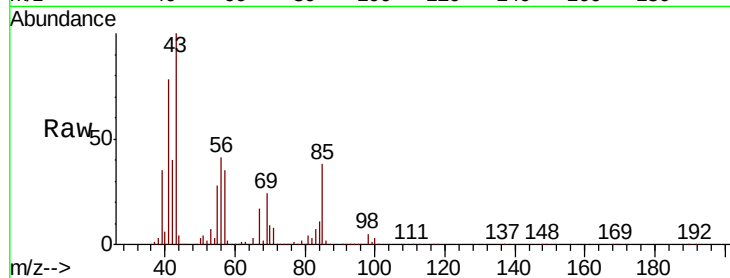
P-2(4.5-5.0)

Tot Ion:168 Resp: 50109

Ion Ratio Lower Upper

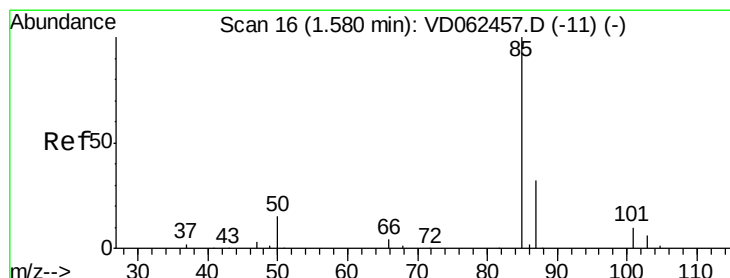
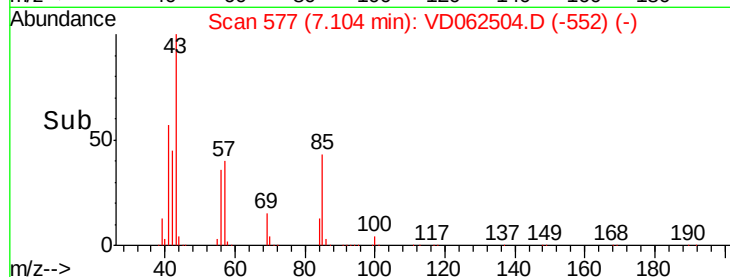
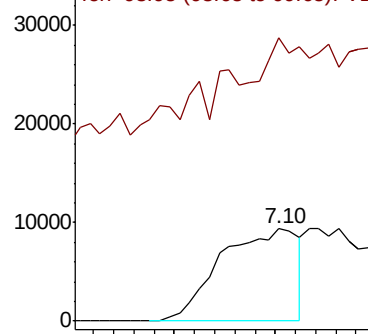
168 100

99 306.5 46.5 69.7#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.55 min Scan# 13

Delta R.T. -0.03 min

Lab File: VD062504.D

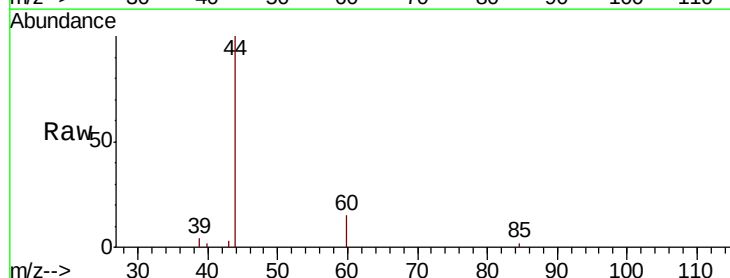
Acq: 22 May 2019 15:54

Tgt Ion: 85 Resp: 208

Ion Ratio Lower Upper

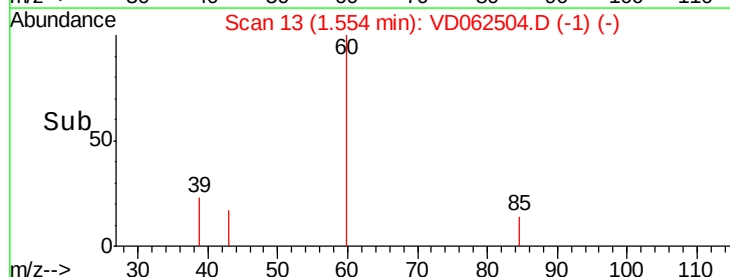
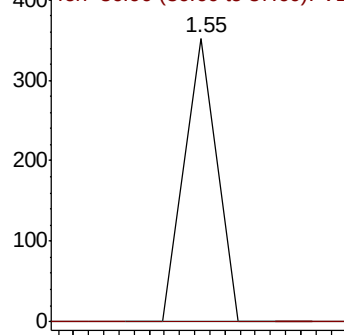
85 100

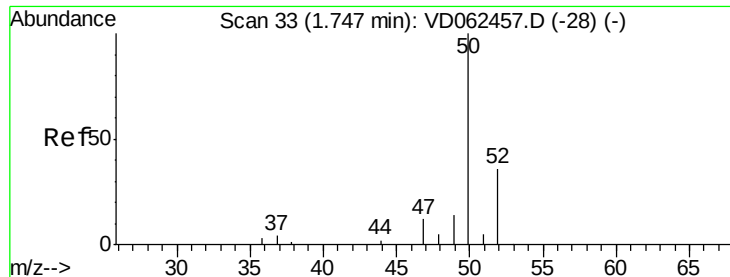
87 0.0 16.2 48.6#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 9.913 ug/l

RT: 1.69 min Scan# 27

Delta R.T. -0.06 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

Instrument :

MSVOA_D

ClientSampleId :

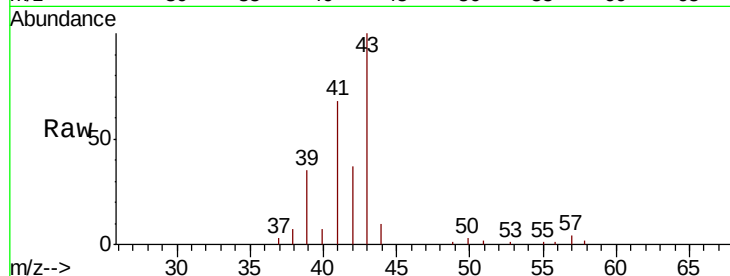
P-2(4.5-5.0)

Tot Ion: 50 Resp: 3441

Ion Ratio Lower Upper

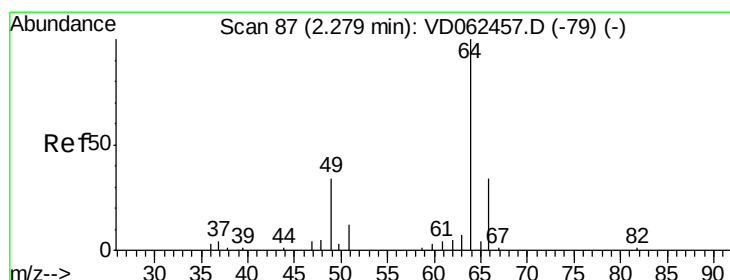
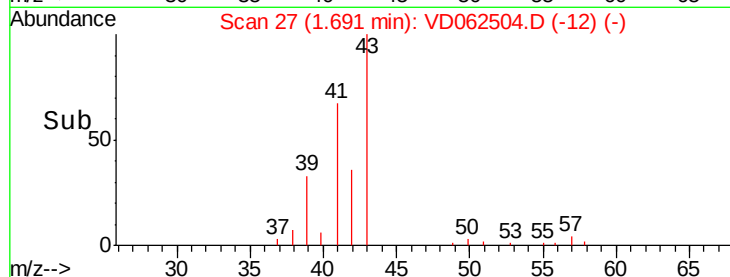
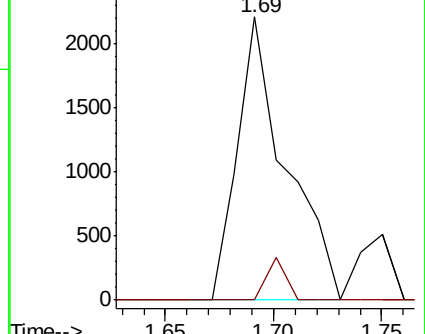
50 100

52 0.0 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#6

Chloroethane

Concen: 33.581 ug/l

RT: 2.37 min Scan# 96

Delta R.T. 0.09 min

Lab File: VD062504.D

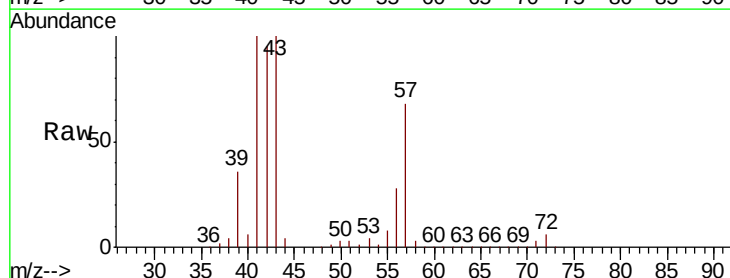
Acq: 22 May 2019 15:54

Tgt Ion: 64 Resp: 5934

Ion Ratio Lower Upper

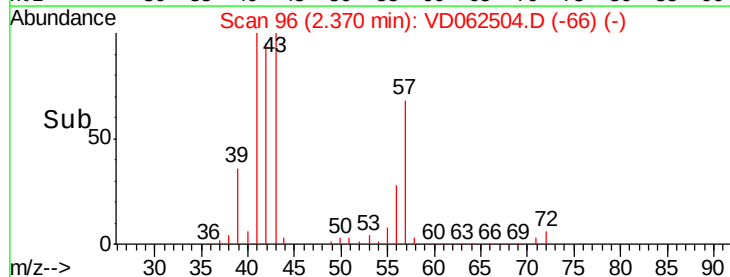
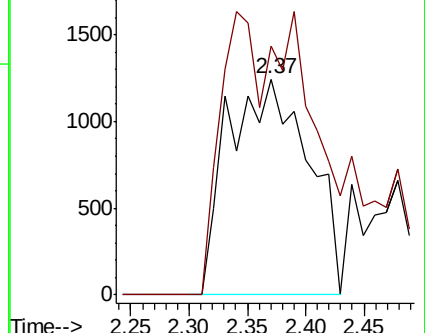
64 100

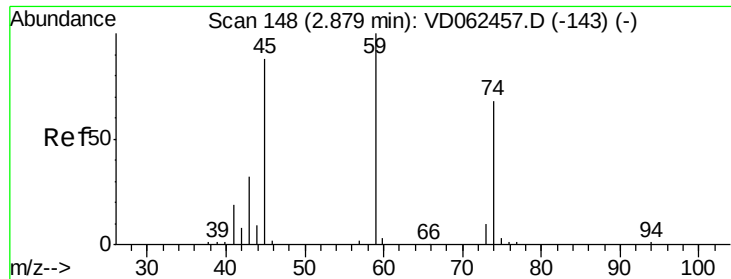
66 115.5 25.6 38.4#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC





#8

Diethyl Ether

Concen: 1.739 ug/l

RT: 2.74 min Scan# 134

Delta R.T. -0.13 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

Instrument :

MSVOA_D

ClientSampleId :

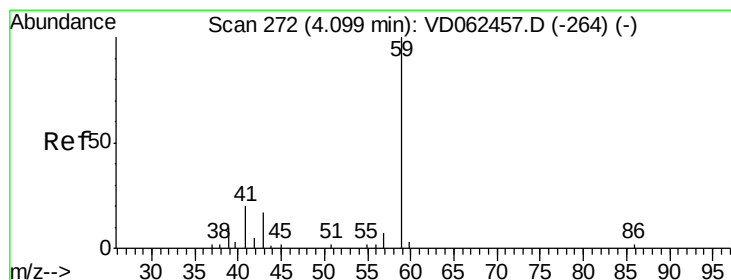
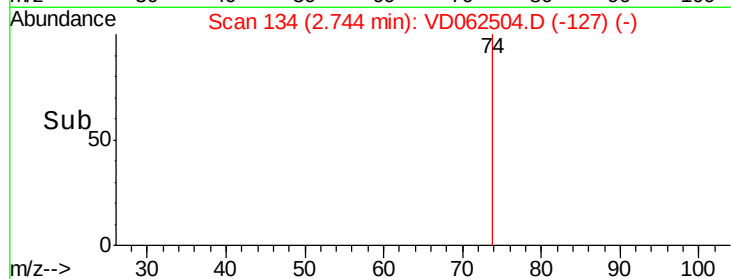
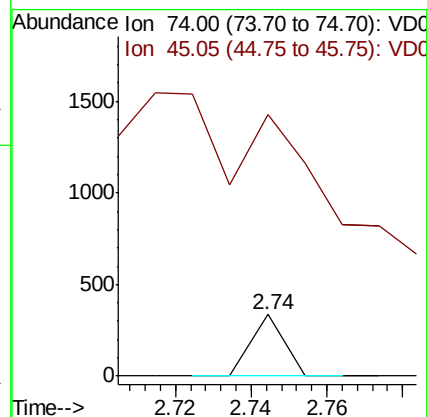
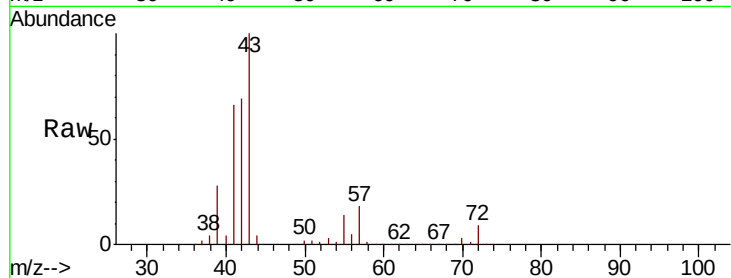
P-2(4.5-5.0)

Tot Ion: 74 Resp: 198

Ion Ratio Lower Upper

74 100

45 424.1 56.9 170.7#



#11

Tert butyl alcohol

Concen: 42.935 ug/l

RT: 4.12 min Scan# 274

Delta R.T. 0.02 min

Lab File: VD062504.D

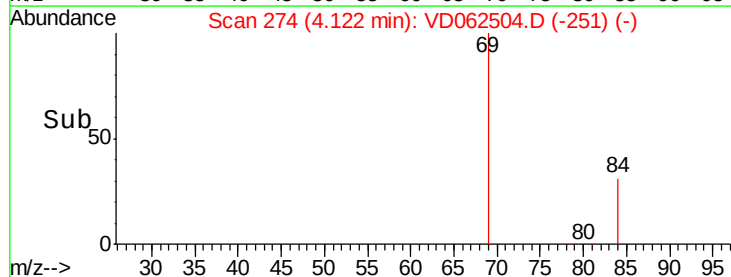
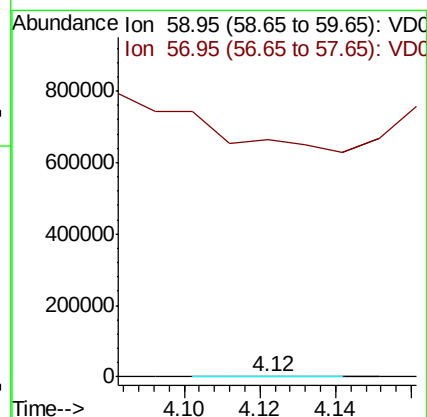
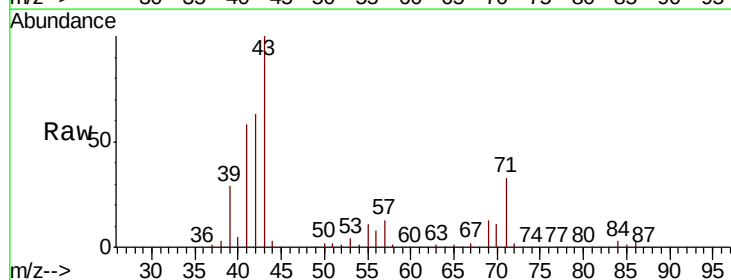
Acq: 22 May 2019 15:54

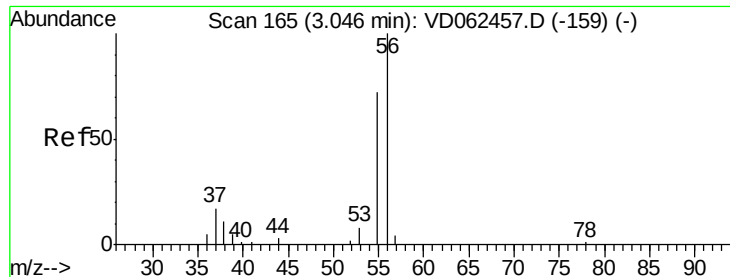
Tgt Ion: 59 Resp: 1063

Ion Ratio Lower Upper

59 100

57 95935.2 6.9 10.3#





#13

Acrolein

Concen: 17550.215 ug/l

RT: 3.00 min Scan# 160

Delta R.T. -0.05 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

Instrument :

MSVOA_D

ClientSampleId :

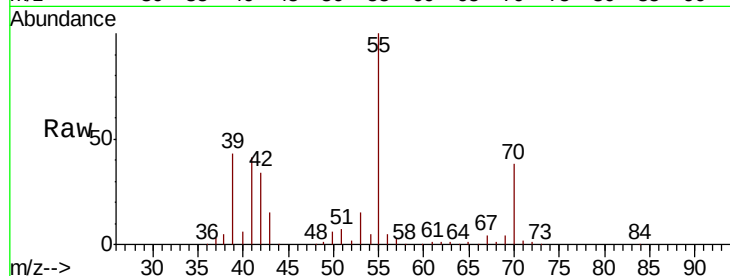
P-2(4.5-5.0)

Tot Ion: 56 Resp: 360846

Ion Ratio Lower Upper

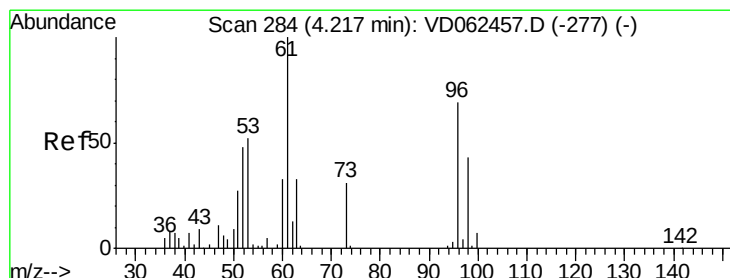
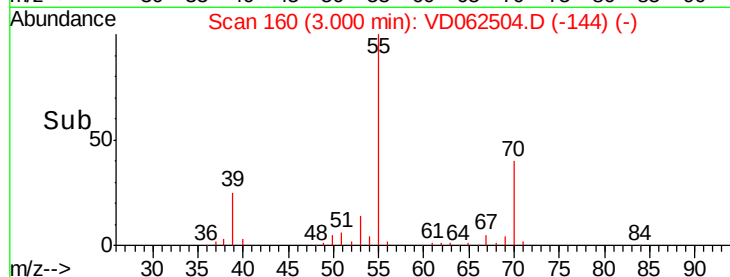
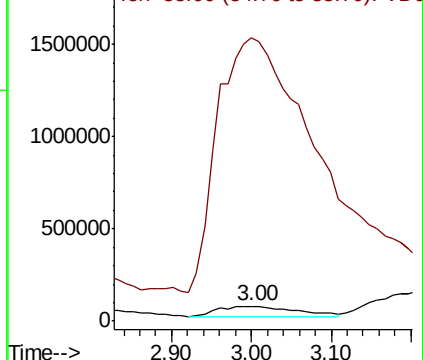
56 100

55 1943.9 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: 1305.026 ug/l

RT: 4.25 min Scan# 287

Delta R.T. 0.03 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

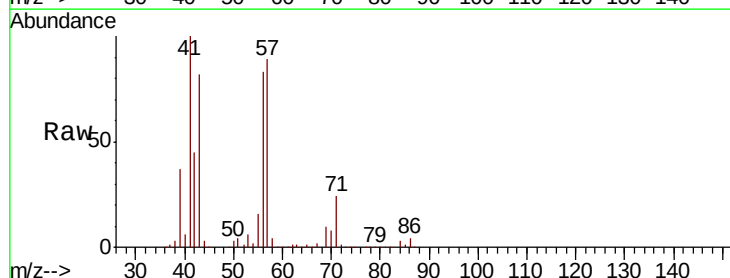
Tgt Ion: 53 Resp: 74038

Ion Ratio Lower Upper

53 100

52 19.3 65.0 97.4#

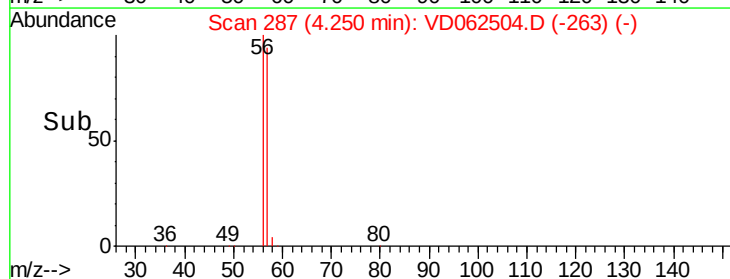
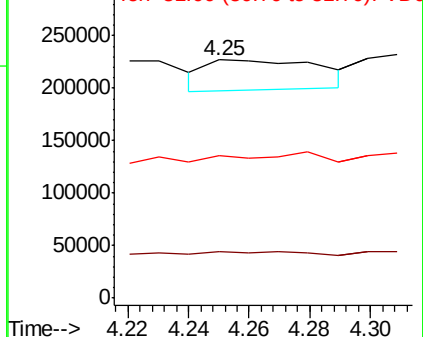
51 59.5 32.6 48.8#

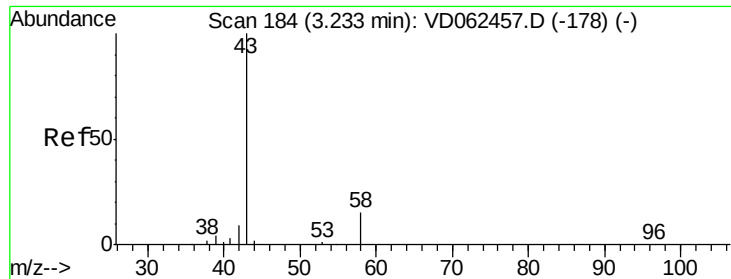


Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC





#16

Acetone

Concen: 43415.651 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.02 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

Instrument :

MSVOA_D

ClientSampleId :

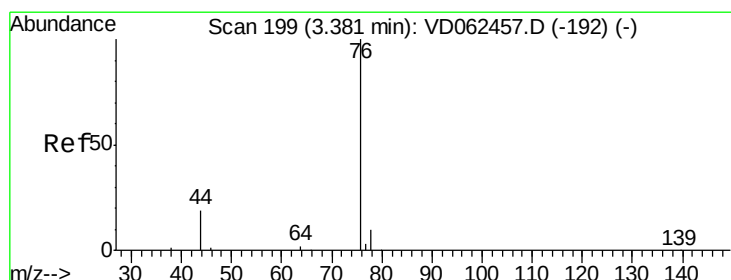
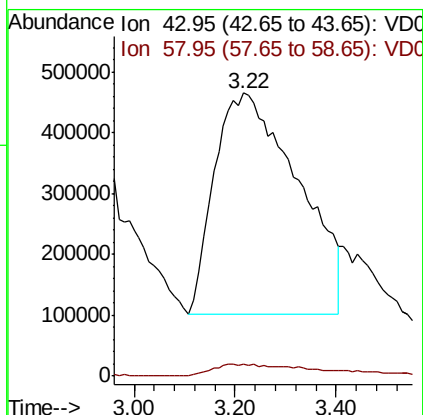
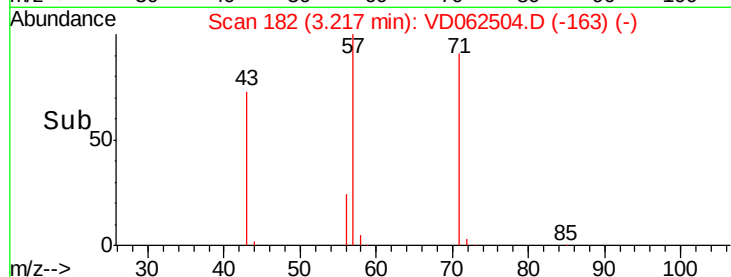
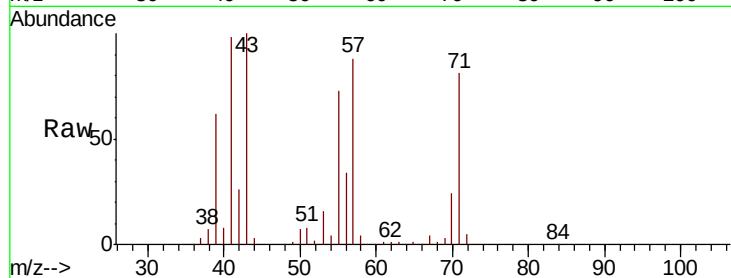
P-2(4.5-5.0)

Tot Ion: 43 Resp: 4173074

Ion Ratio Lower Upper

43 100

58 4.3 19.9 29.9#



#17

Carbon Disulfide

Concen: 53.064 ug/l

RT: 3.35 min Scan# 196

Delta R.T. -0.03 min

Lab File: VD062504.D

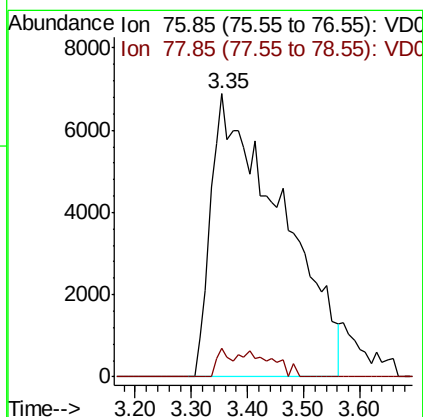
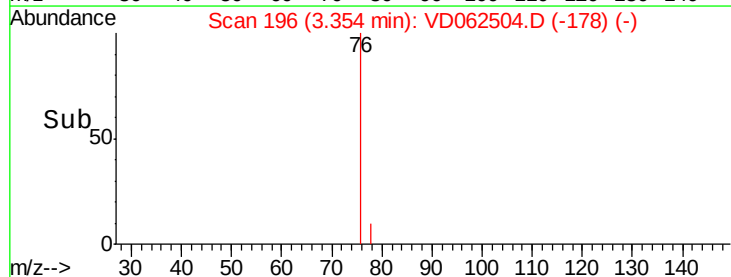
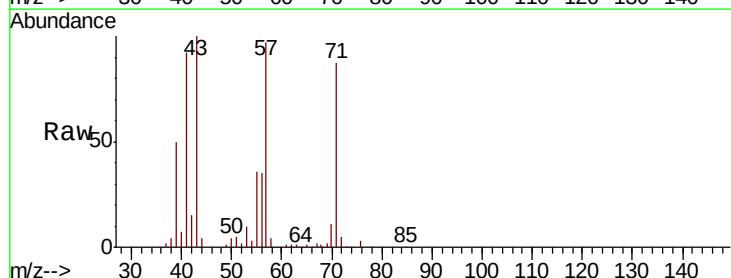
Acq: 22 May 2019 15:54

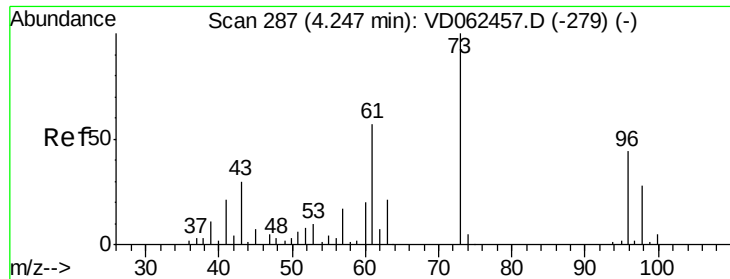
Tgt Ion: 76 Resp: 59637

Ion Ratio Lower Upper

76 100

78 10.3 7.2 10.8



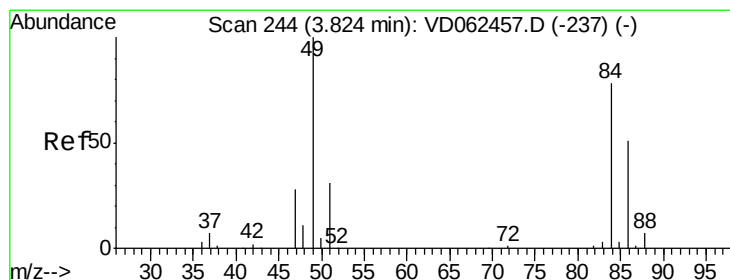
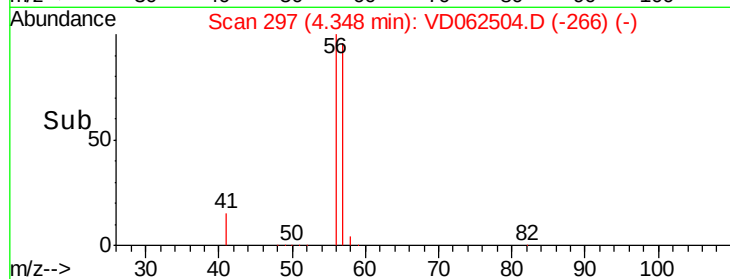
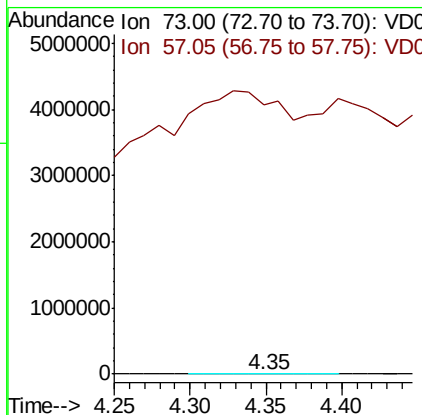
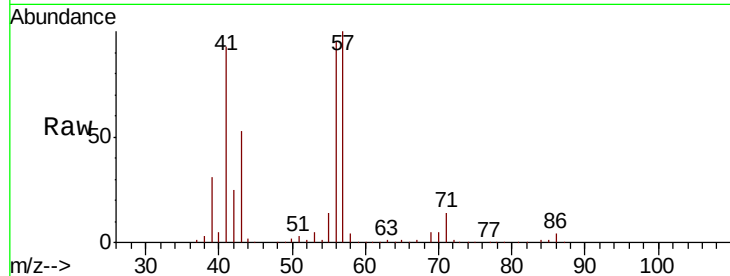


#19

Methyl tert-butyl Ether
 Concen: 4.842 ug/l
 RT: 4.35 min Scan# 297
 Delta R.T. 0.10 min
 Lab File: VD062504.D
 Acq: 22 May 2019 15:54

Instrument :
 MSVOA_D
 ClientSampleId :
 P-2(4.5-5.0)

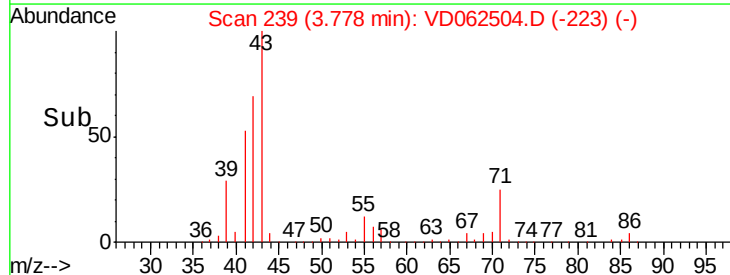
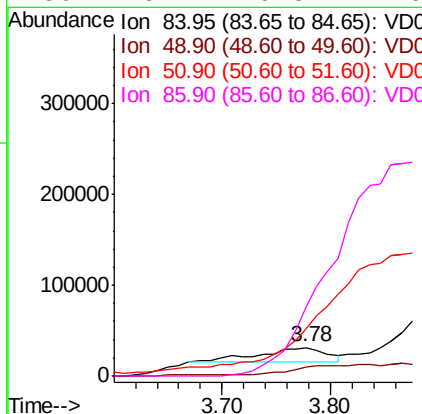
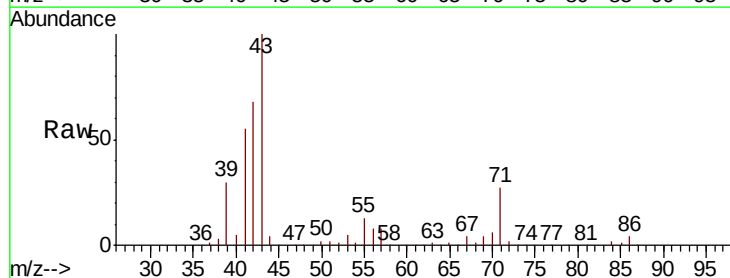
Tot Ion: 73 Resp: 4150
 Ion Ratio Lower Upper
 73 100
 57 175078.1 16.3 24.5#

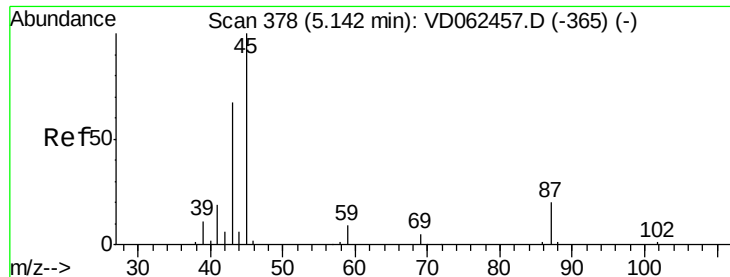


#20

Methylene Chloride
 Concen: 195.333 ug/l
 RT: 3.78 min Scan# 239
 Delta R.T. -0.05 min
 Lab File: VD062504.D
 Acq: 22 May 2019 15:54

Tgt Ion: 84 Resp: 72652
 Ion Ratio Lower Upper
 84 100
 49 30.5 94.0 141.0#
 51 163.8 29.0 43.4#
 86 240.7 49.8 74.6#





#22

Diisopropyl ether

Concen: 1.013 ug/l

RT: 5.14 min Scan# 377

Delta R.T. -0.01 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

Instrument :

MSVOA_D

ClientSampleId :

P-2(4.5-5.0)

Tot Ion: 45 Resp: 1180

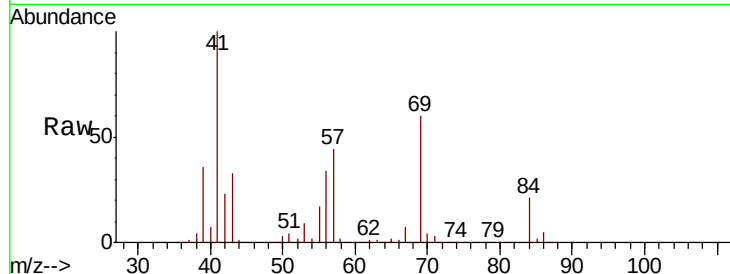
Ion Ratio Lower Upper

45 100

43 234928.5 46.2 69.2#

87 2337.7 15.9 23.9#

59 232.3 7.9 11.9#

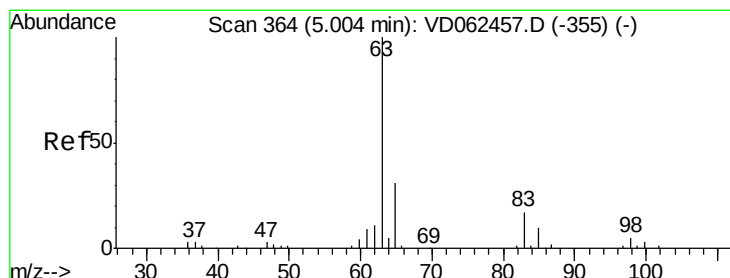
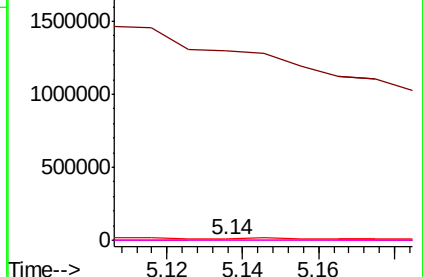
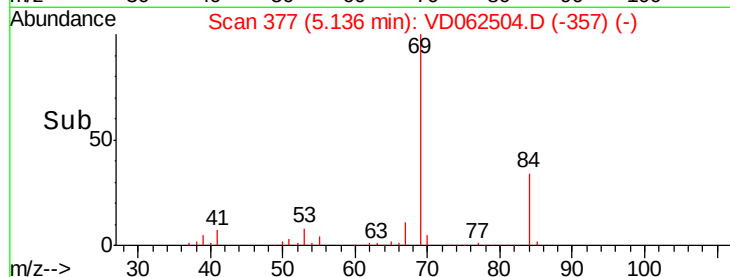


Abundance Ion 45.05 (44.75 to 45.75): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 58.95 (58.65 to 59.65): VDC



#24

1,1-Dichloroethane

Concen: 10.360 ug/l

RT: 4.99 min Scan# 362

Delta R.T. -0.02 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

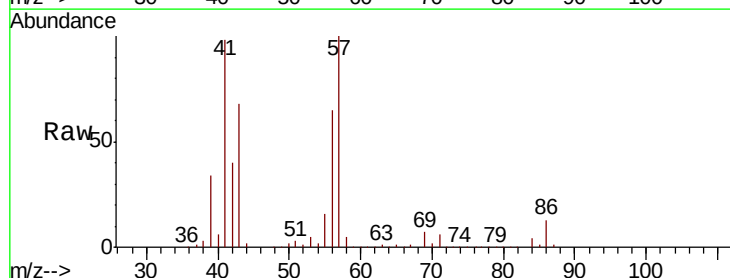
Tgt Ion: 63 Resp: 7771

Ion Ratio Lower Upper

63 100

98 0.0 2.8 8.4#

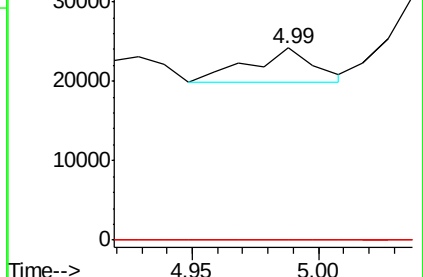
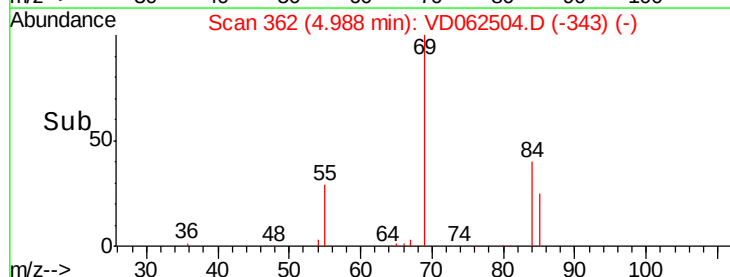
100 0.0 1.8 5.5#

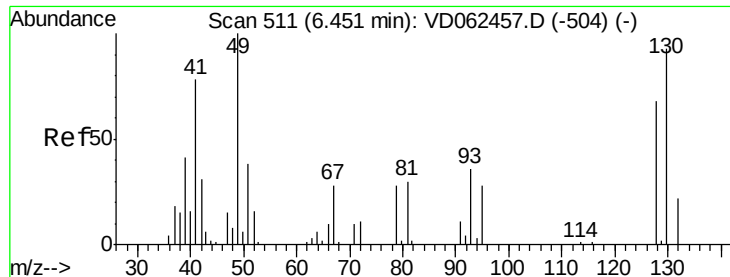


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#28

Bromochloromethane

Concen: 5.772 ug/l

RT: 6.54 min Scan# 520

Delta R.T. 0.09 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

Instrument :

MSVOA_D

ClientSampleId :

P-2(4.5-5.0)

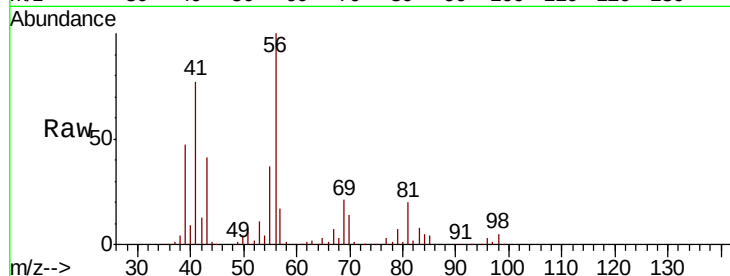
Tot Ion: 49 Resp: 1554

Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.6

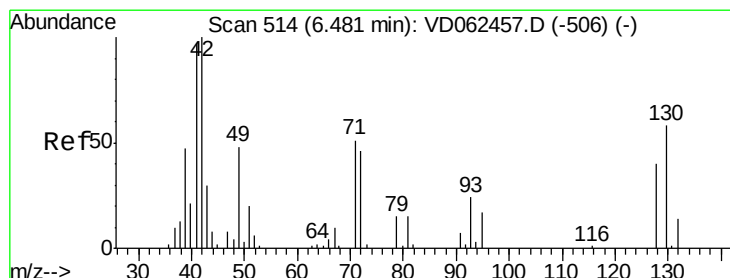
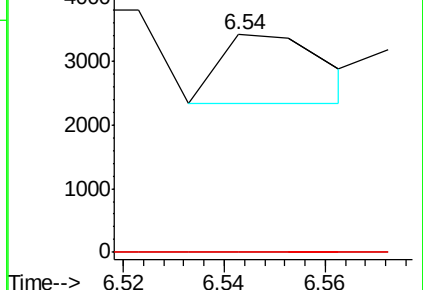
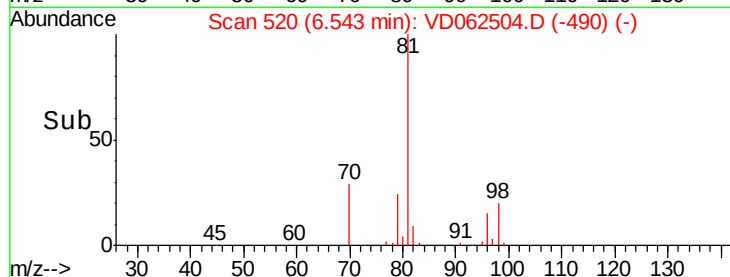
130 0.0 86.7 130.1#



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: 11160.731 ug/l

RT: 6.74 min Scan# 540

Delta R.T. 0.26 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

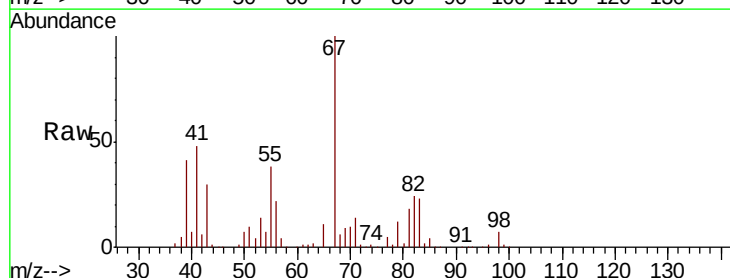
Tgt Ion: 42 Resp: 535855

Ion Ratio Lower Upper

42 100

72 0.0 37.8 56.6#

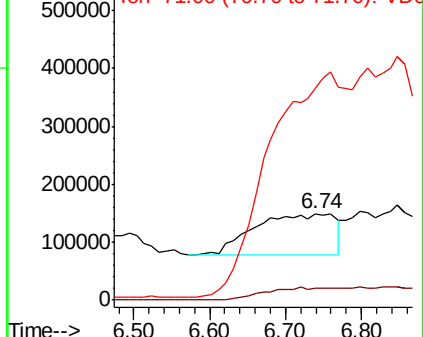
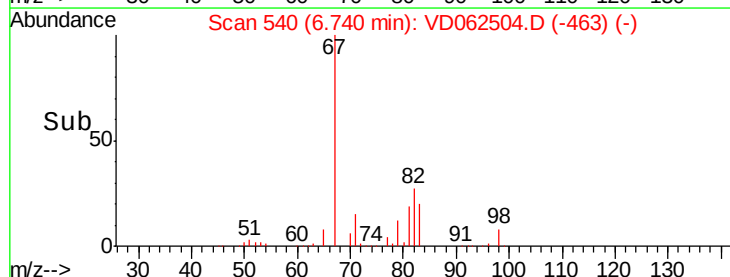
71 533.2 36.7 55.1#

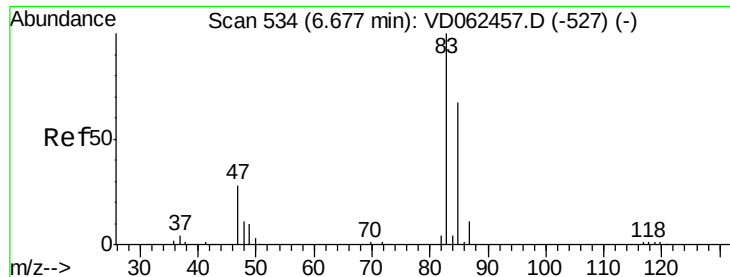


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

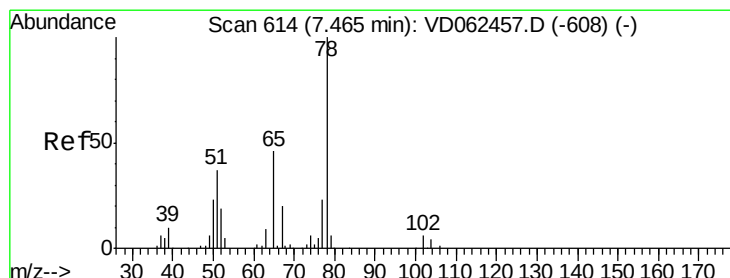
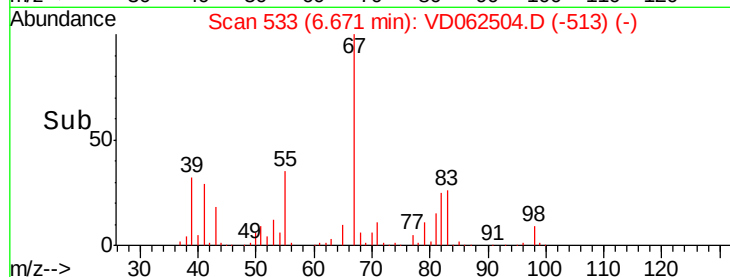
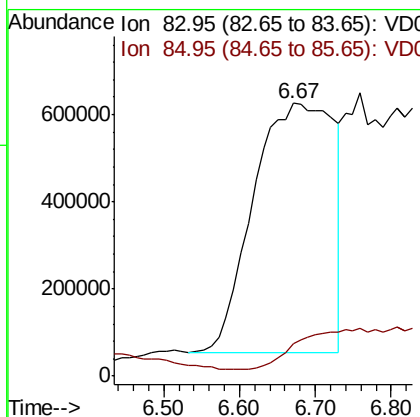
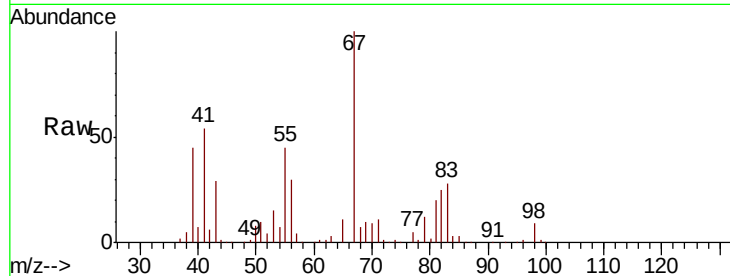




#30
Chloroform
Concen: 4424.603 ug/l
RT: 6.67 min Scan# 533
Delta R.T. -0.01 min
Lab File: VD062504.D
Acq: 22 May 2019 15:54

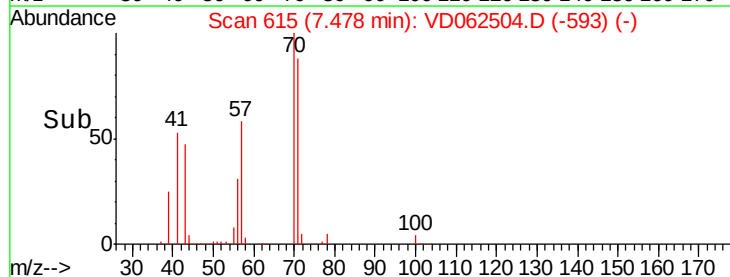
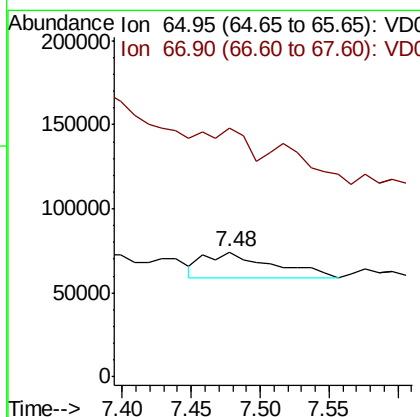
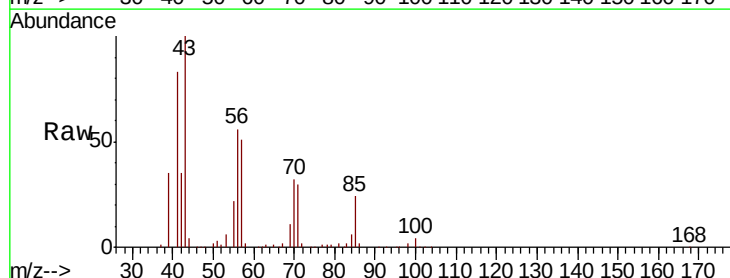
Instrument :
MSVOA_D
ClientSampleId :
P-2(4.5-5.0)

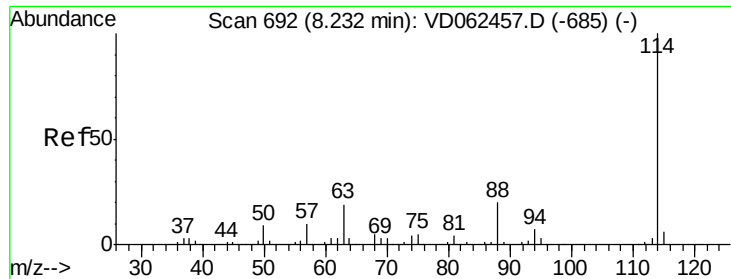
Tot Ion: 83 Resp: 4231127
Ion Ratio Lower Upper
83 100
85 11.9 51.7 77.5#



#33
1,2-Dichloroethane-d4
Concen: 99.953 ug/l
RT: 7.48 min Scan# 615
Delta R.T. 0.01 min
Lab File: VD062504.D
Acq: 22 May 2019 15:54

Tgt Ion: 65 Resp: 53613
Ion Ratio Lower Upper
65 100
67 198.5 0.0 98.0#

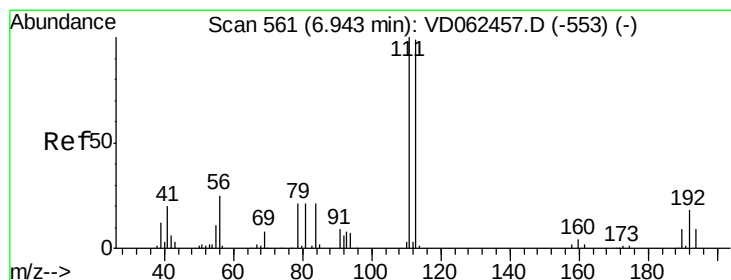
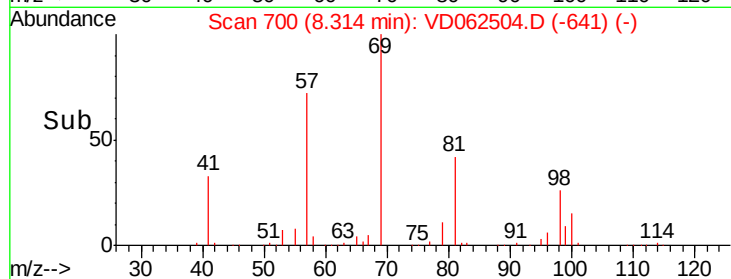
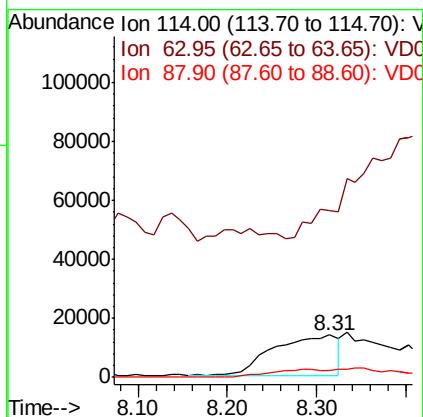
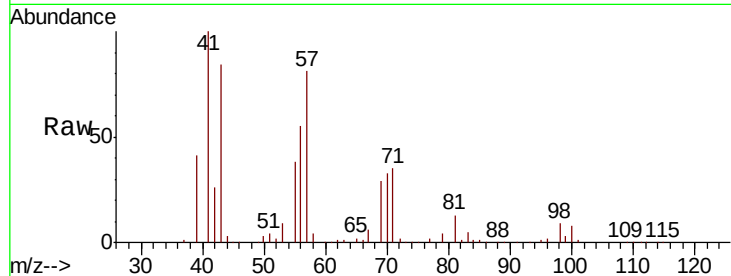




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.31 min Scan# 700
 Delta R.T. 0.08 min
 Lab File: VD062504.D
 Acq: 22 May 2019 15:54

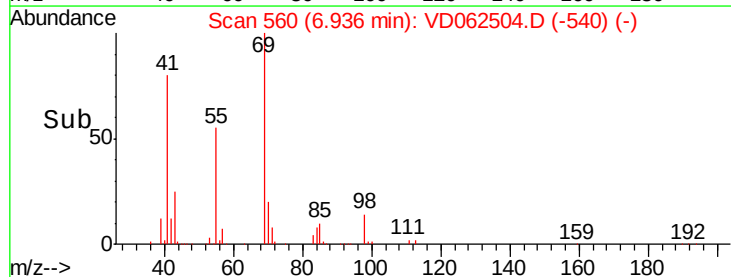
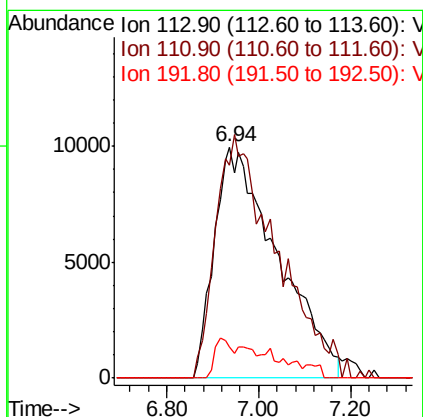
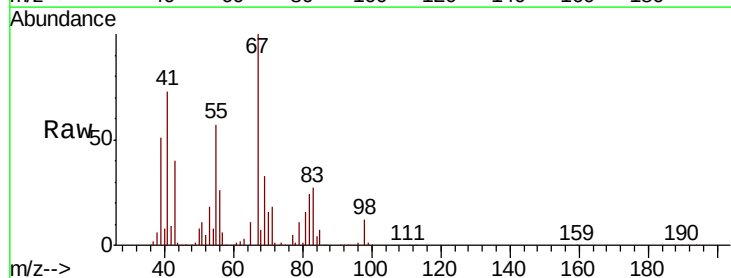
Instrument :
 MSVOA_D
 ClientSampleId :
 P-2(4.5-5.0)

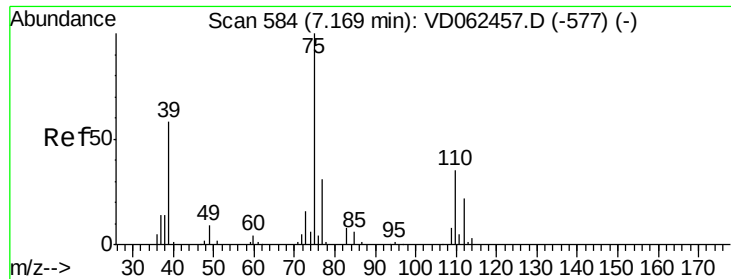
Tot Ion:114 Resp: 69654
 Ion Ratio Lower Upper
 114 100
 63 396.7 0.0 32.4#
 88 15.6 0.0 33.6



#35
 Dibromofluoromethane
 Concen: 150.850 ug/l
 RT: 6.94 min Scan# 560
 Delta R.T. -0.01 min
 Lab File: VD062504.D
 Acq: 22 May 2019 15:54

Tgt Ion:113 Resp: 94789
 Ion Ratio Lower Upper
 113 100
 111 91.8 78.5 117.7
 192 13.3 13.0 19.4

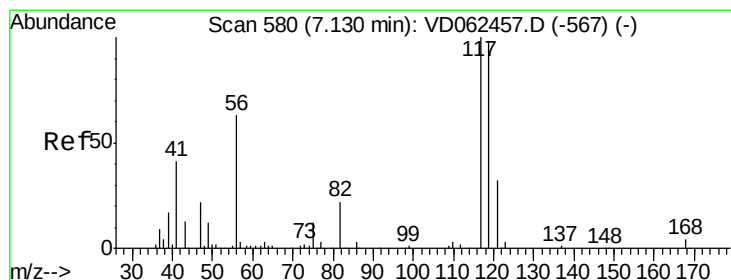
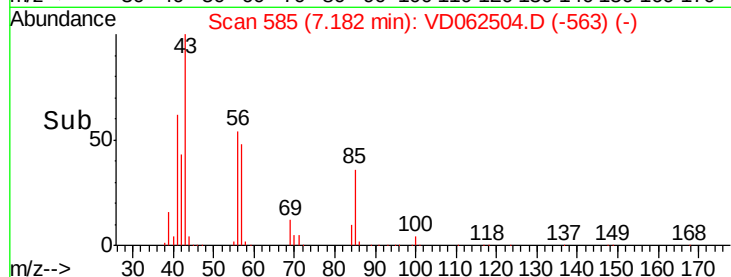
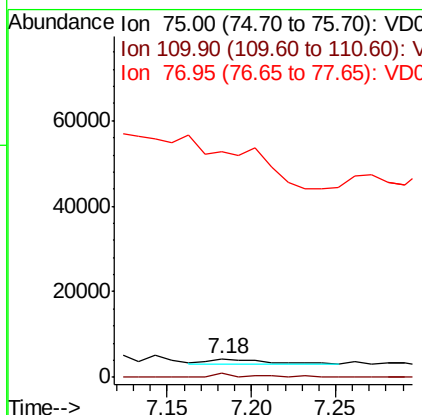
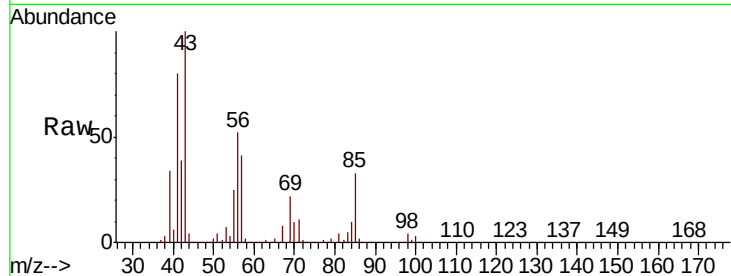




#36
 1,1-Dichloropropene
 Concen: 5.430 ug/l
 RT: 7.18 min Scan# 585
 Delta R.T. 0.01 min
 Lab File: VD062504.D
 Acq: 22 May 2019 15:54

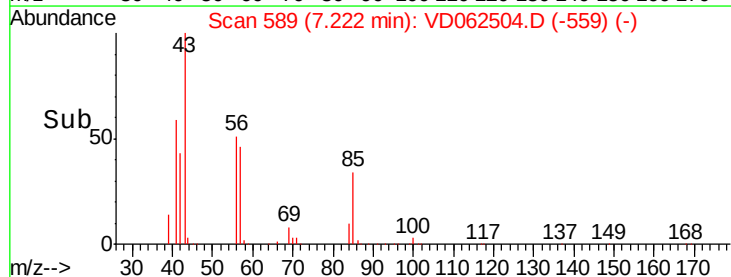
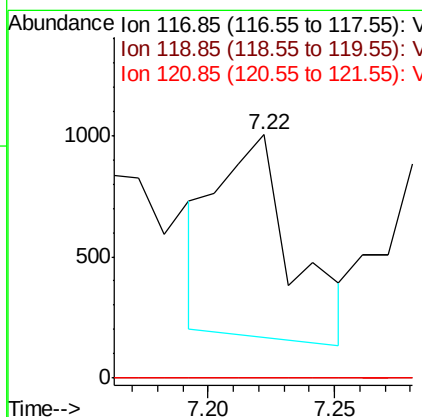
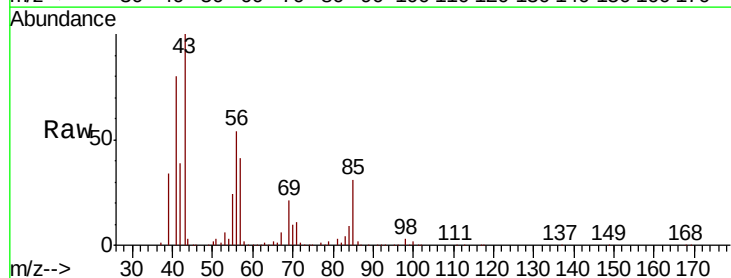
Instrument :
 MSVOA_D
 ClientSampleId :
 P-2(4.5-5.0)

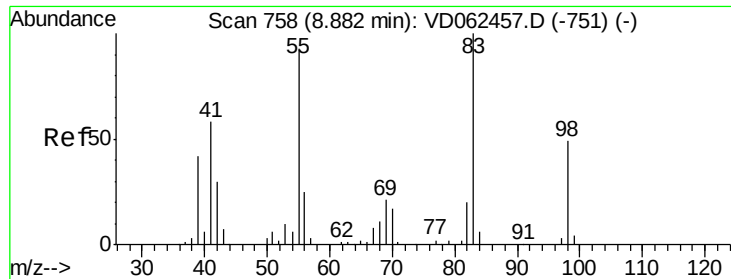
Tot Ion: 75 Resp: 3616
 Ion Ratio Lower Upper
 75 100
 110 22.8 19.1 57.1
 77 1192.2 25.6 38.4#



#38
 Carbon Tetrachloride
 Concen: 1.721 ug/l
 RT: 7.22 min Scan# 589
 Delta R.T. 0.09 min
 Lab File: VD062504.D
 Acq: 22 May 2019 15:54

Tgt Ion: 117 Resp: 1703
 Ion Ratio Lower Upper
 117 100
 119 0.0 75.8 113.8#
 121 0.0 25.9 38.9#

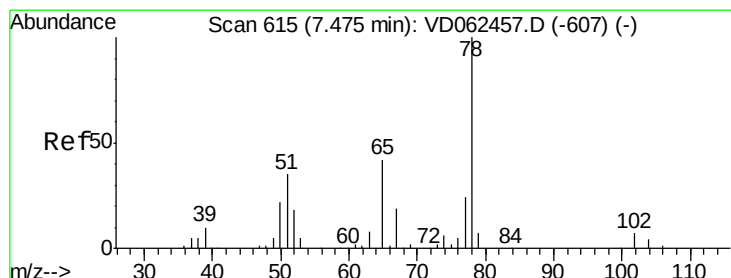
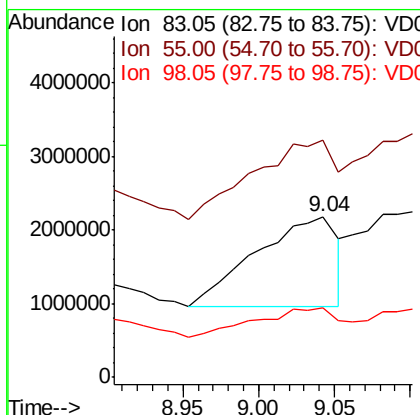
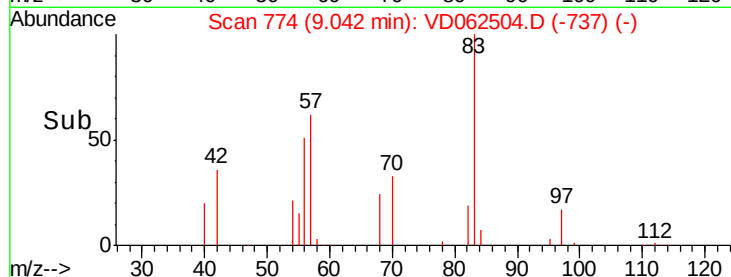
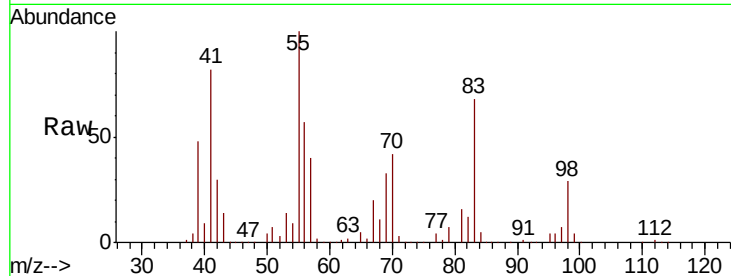




#39
Methylvlcyclohexane
Concen: 8384.591 ug/l
RT: 9.04 min Scan# 774
Delta R.T. 0.16 min
Lab File: VD062504.D
Acq: 22 May 2019 15:54

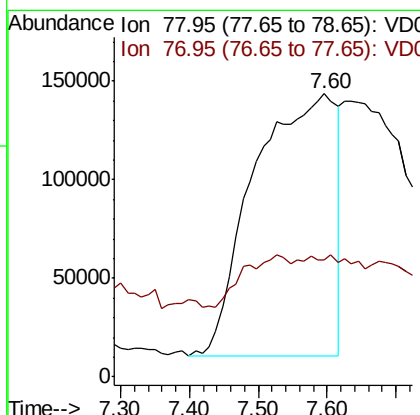
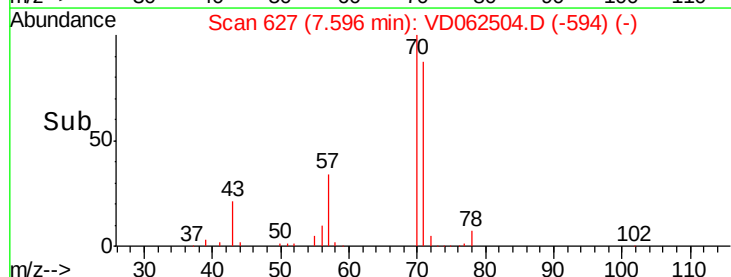
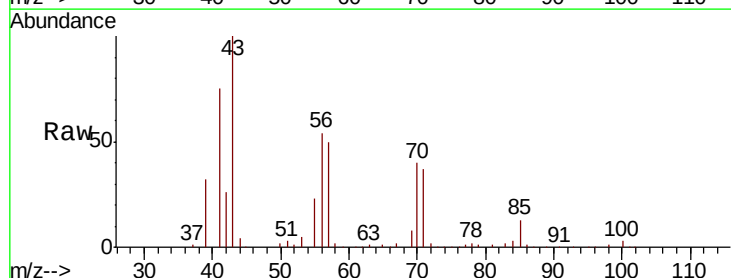
Instrument :
MSVOA_D
ClientSampleId :
P-2(4.5-5.0)

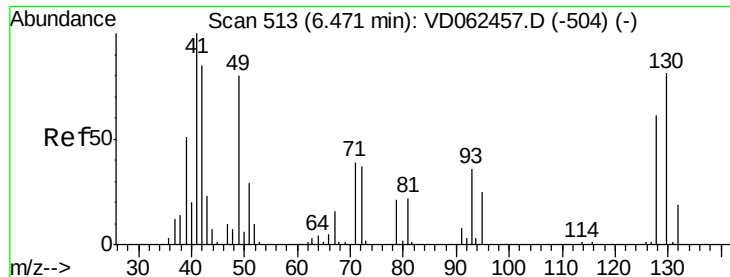
Tot Ion: 83 Resp: 4605384
Ion Ratio Lower Upper
83 100
55 147.4 68.2 102.4#
98 43.0 38.2 57.4



#40
Benzene
Concen: 844.883 ug/l
RT: 7.60 min Scan# 627
Delta R.T. 0.12 min
Lab File: VD062504.D
Acq: 22 May 2019 15:54

Tgt Ion: 78 Resp: 1103629
Ion Ratio Lower Upper
78 100
77 41.2 19.7 29.5#





#41

Methacrylonitrile

Concen: 703.377 ug/l

RT: 6.49 min Scan# 515

Delta R.T. 0.02 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

Instrument :

MSVOA_D

ClientSampleId :

P-2(4.5-5.0)

Tot Ion: 41 Resp: 228538

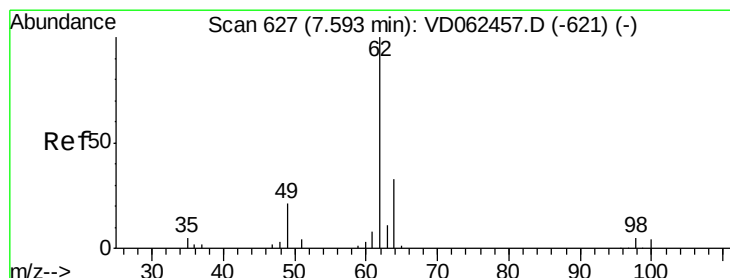
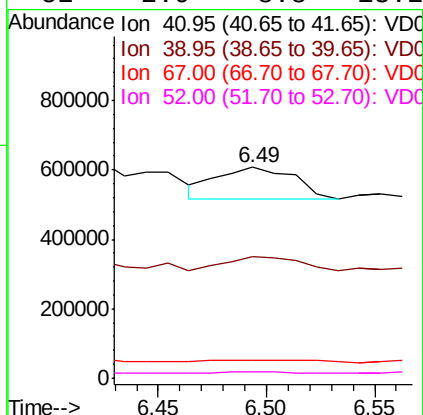
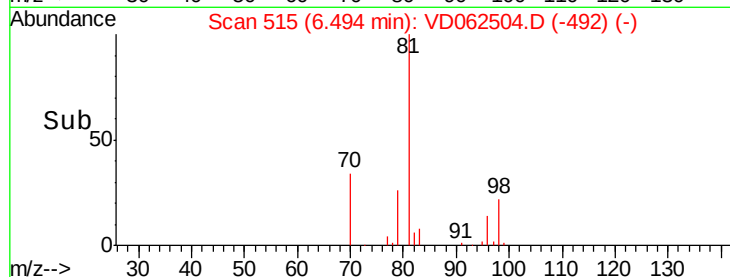
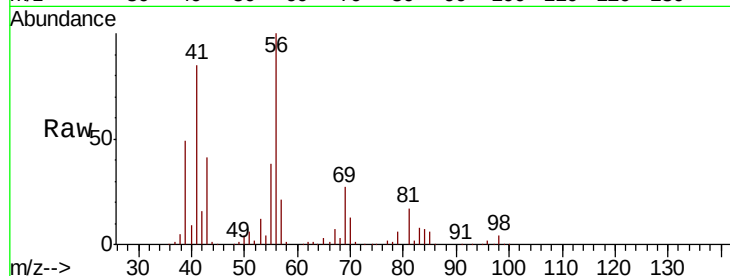
Ion Ratio Lower Upper

41 100

39 57.8 34.1 51.1#

67 8.3 23.8 35.6#

52 2.9 8.8 13.2#



#42

1,2-Dichloroethane

Concen: 6.627 ug/l

RT: 7.65 min Scan# 633

Delta R.T. 0.06 min

Lab File: VD062504.D

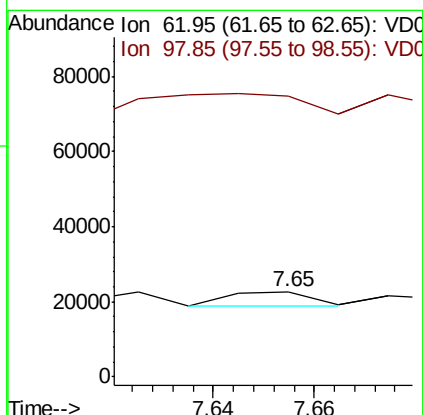
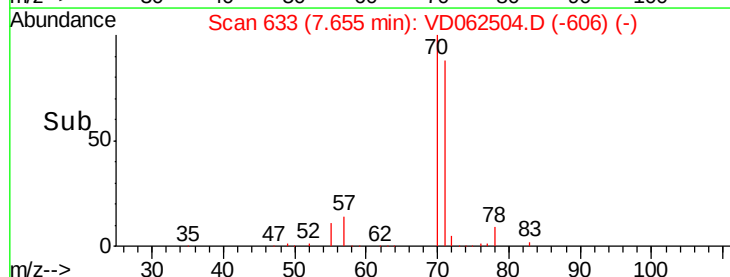
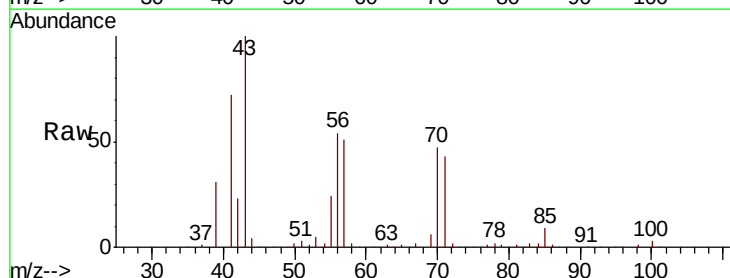
Acq: 22 May 2019 15:54

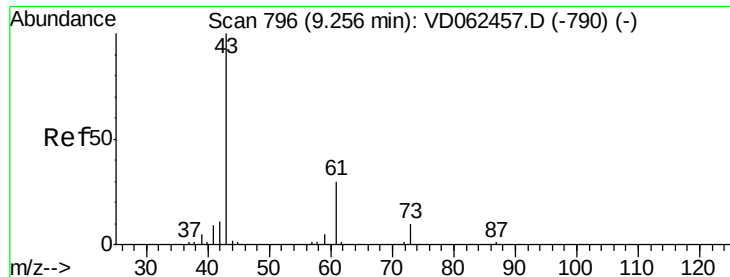
Tgt Ion: 62 Resp: 4584

Ion Ratio Lower Upper

62 100

98 330.5 0.0 17.8#





#43

Isopropyl Acetate

Concen: 104543.489 ug/l

RT: 9.31 min Scan# 801

Delta R.T. 0.05 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

Instrument :

MSVOA_D

ClientSampleId :

P-2(4.5-5.0)

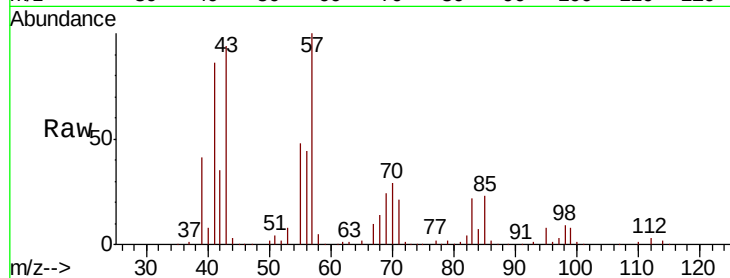
Tot Ion: 43 Resp:35879474

Ion Ratio Lower Upper

43 100

61 0.2 25.1 37.7#

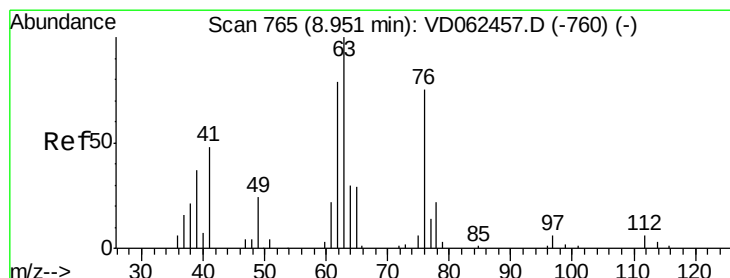
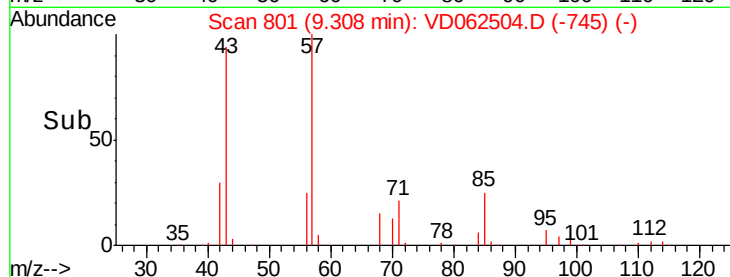
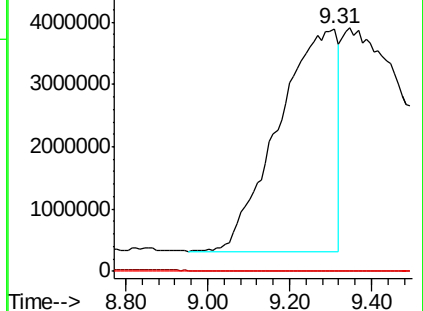
87 0.1 0.0 0.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC



#45

1,2-Dichloropropane

Concen: 39.726 ug/l

RT: 9.08 min Scan# 778

Delta R.T. 0.13 min

Lab File: VD062504.D

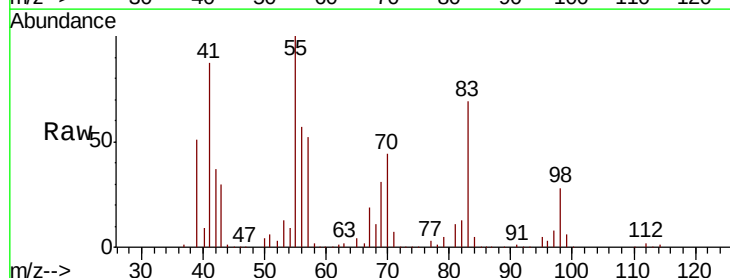
Acq: 22 May 2019 15:54

Tgt Ion: 63 Resp: 12646

Ion Ratio Lower Upper

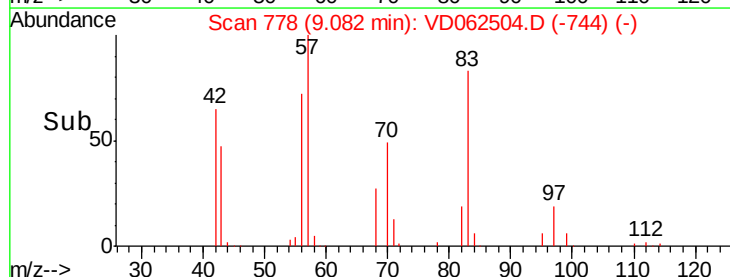
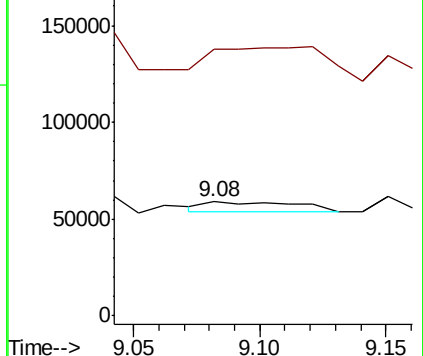
63 100

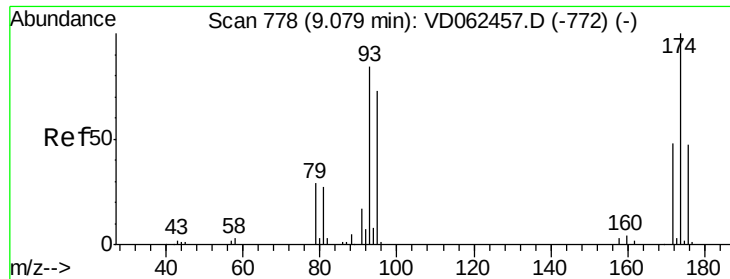
65 234.6 23.8 35.6#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

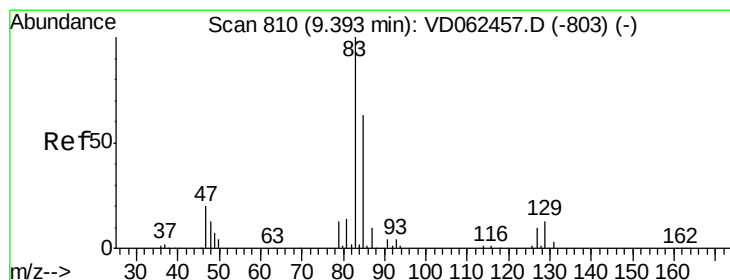
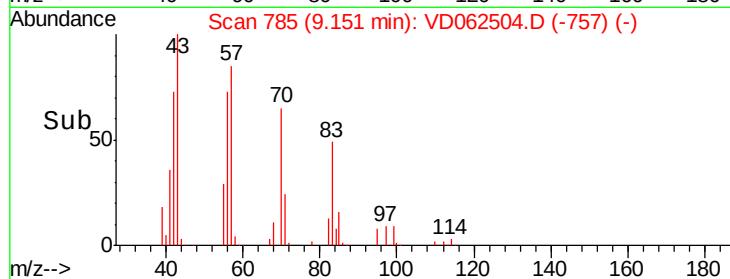
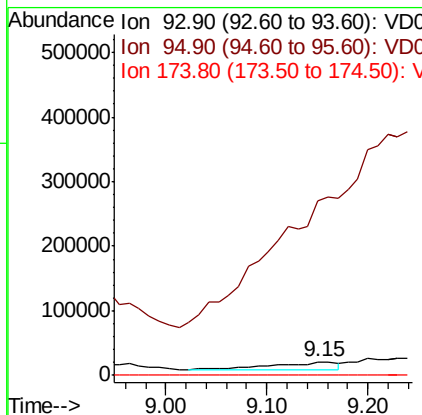
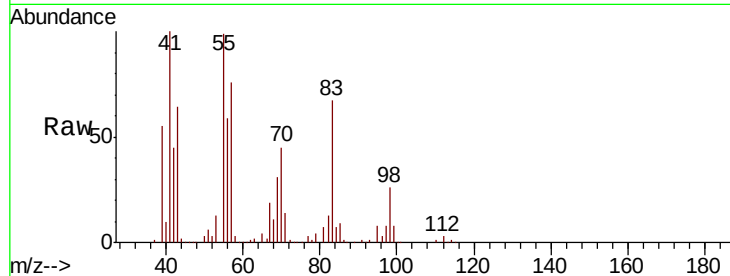




#46
Dibromomethane
Concen: 166.384 ug/l
RT: 9.15 min Scan# 785
Delta R.T. 0.07 min
Lab File: VD062504.D
Acq: 22 May 2019 15:54

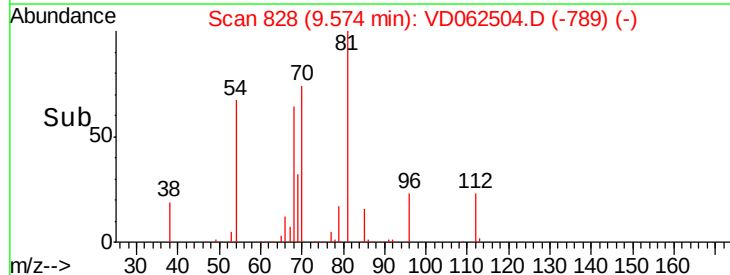
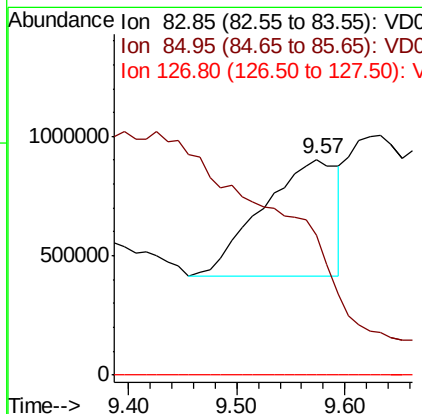
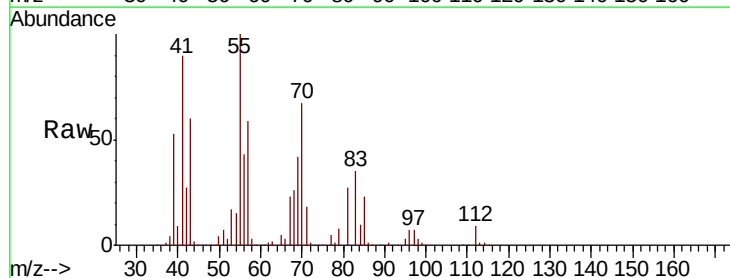
Instrument :
MSVOA_D
ClientSampleId :
P-2(4.5-5.0)

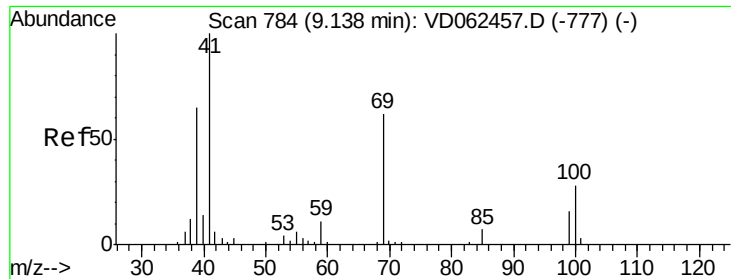
Tot Ion: 93 Resp: 48011
Ion Ratio Lower Upper
93 100
95 1306.6 64.8 97.2#
174 0.0 79.3 118.9#



#47
Bromodichloromethane
Concen: 3212.497 ug/l
RT: 9.57 min Scan# 828
Delta R.T. 0.18 min
Lab File: VD062504.D
Acq: 22 May 2019 15:54

Tgt Ion: 83 Resp: 2358162
Ion Ratio Lower Upper
83 100
85 65.1 50.9 76.3
127 0.0 8.1 12.1#

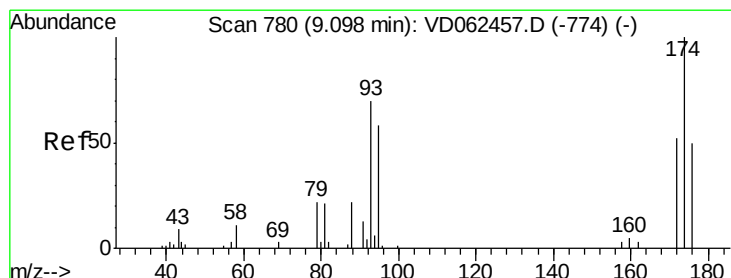
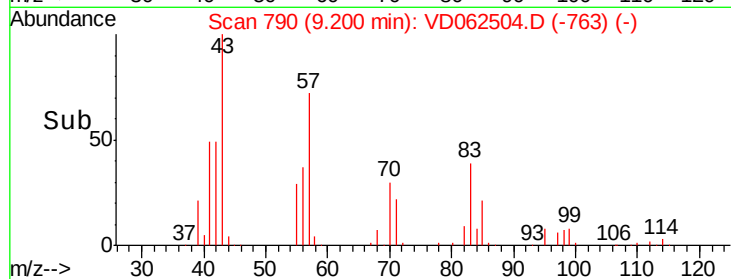
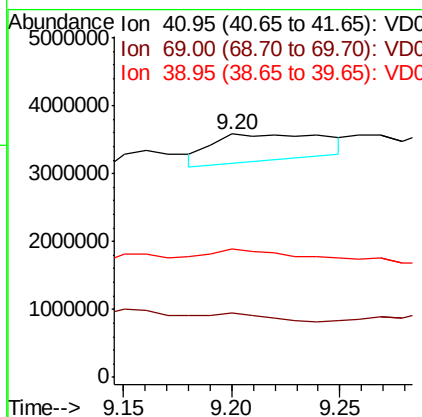
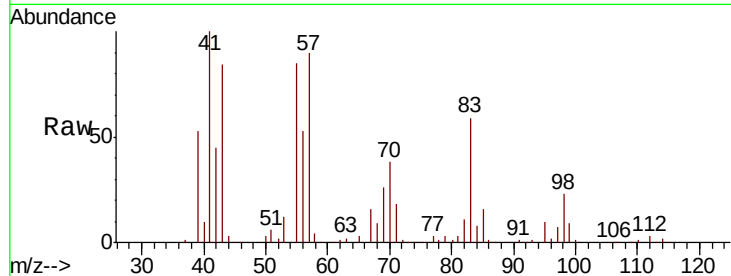




#48
Methyl methacrylate
Concen: 6148.731 ug/l
RT: 9.20 min Scan# 790
Delta R.T. 0.06 min
Lab File: VD062504.D
Acq: 22 May 2019 15:54

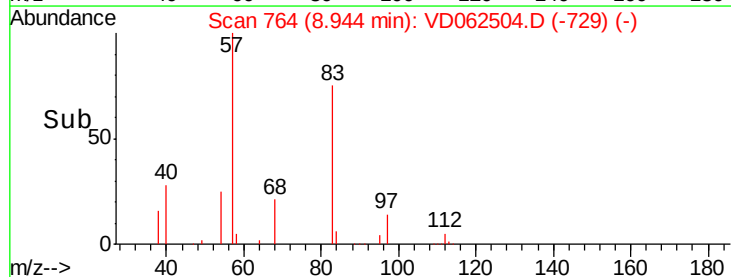
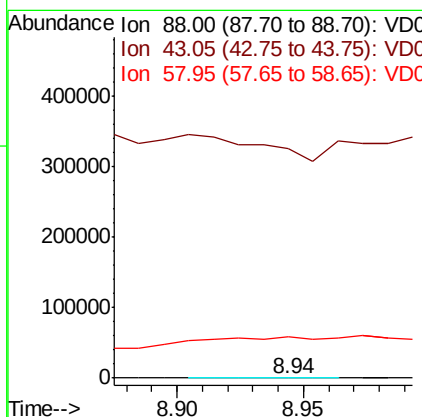
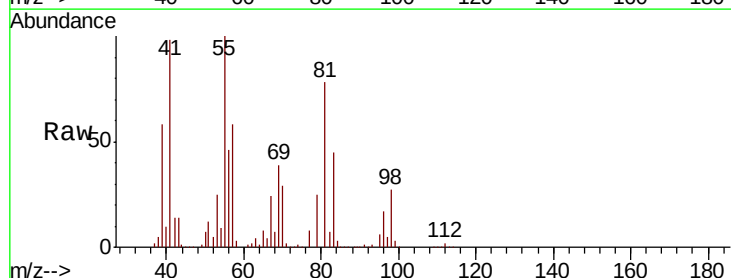
Instrument :
MSVOA_D
ClientSampleID :
P-2(4.5-5.0)

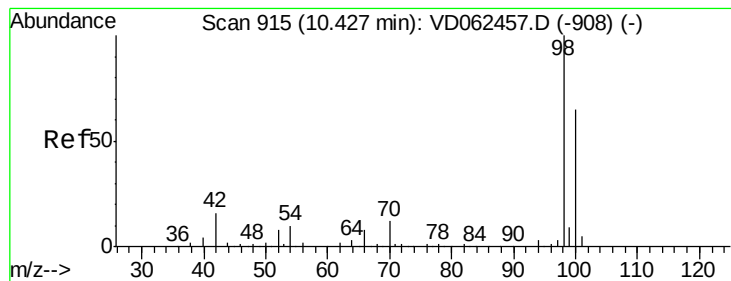
Tot Ion: 41 Resp: 1420093
Ion Ratio Lower Upper
41 100
69 26.3 64.2 96.2#
39 52.5 46.8 70.2



#49
1,4-Dioxane
Concen: 320.524 ug/l
RT: 8.94 min Scan# 764
Delta R.T. -0.15 min
Lab File: VD062504.D
Acq: 22 May 2019 15:54

Tgt Ion: 88 Resp: 664
Ion Ratio Lower Upper
88 100
43 66911.5 23.4 35.0#
58 12223.0 44.0 66.0#





#50

Toluene-d8

Concen: 77.435 ug/l

RT: 10.56 min Scan# 928

Delta R.T. 0.13 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

Instrument :

MSVOA_D

ClientSampleId :

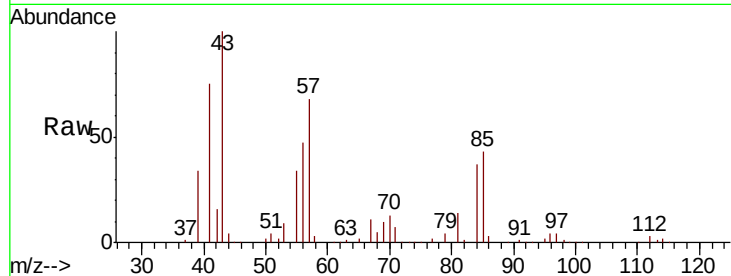
P-2(4.5-5.0)

Tot Ion: 98 Resp: 106481

Ion Ratio Lower Upper

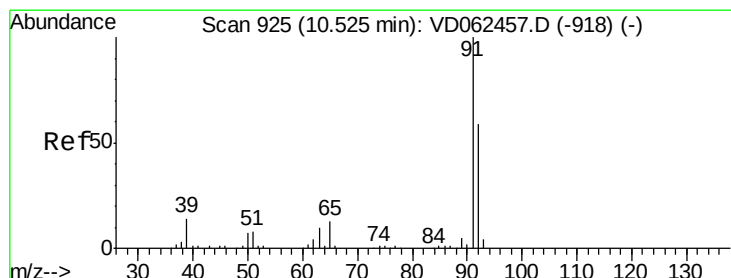
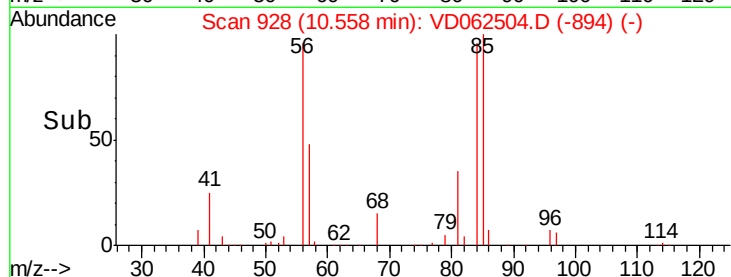
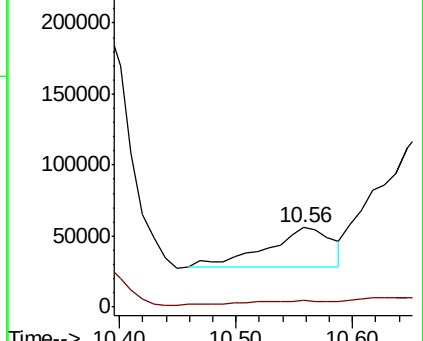
98 100

100 9.3 53.8 80.8#



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC



#52

Toluene

Concen: 1084.709 ug/l

RT: 10.71 min Scan# 943

Delta R.T. 0.18 min

Lab File: VD062504.D

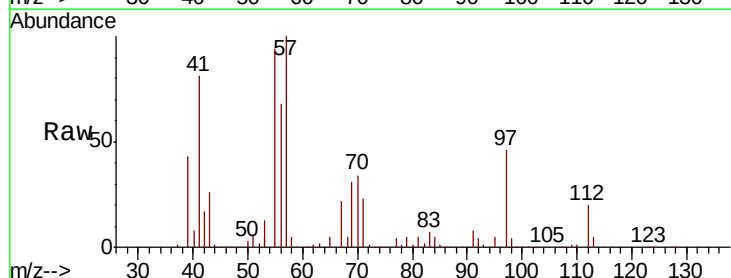
Acq: 22 May 2019 15:54

Tgt Ion: 92 Resp: 969989

Ion Ratio Lower Upper

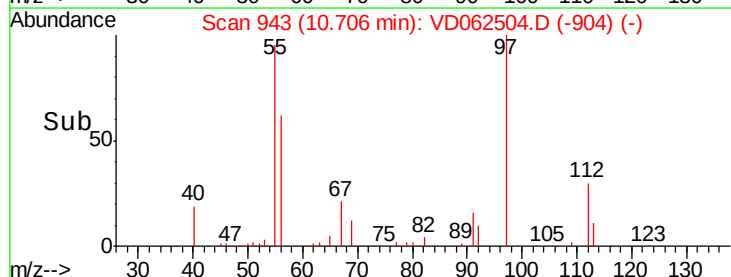
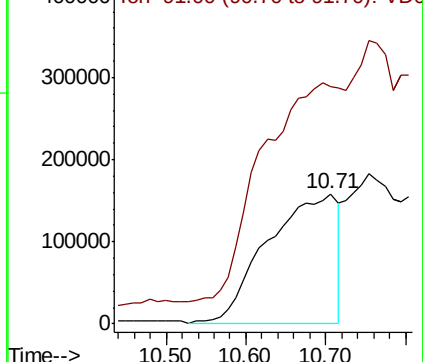
92 100

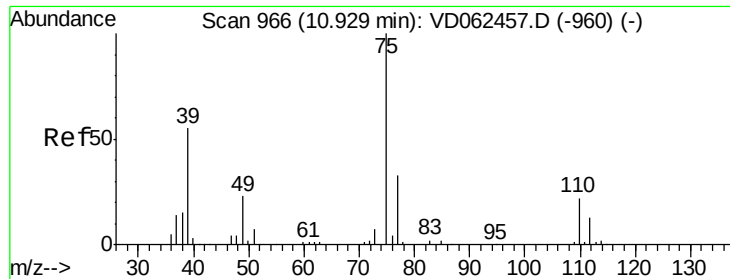
91 182.1 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#53

t-1,3-Dichloropropene

Concen: 18.384 ug/l

RT: 11.06 min Scan# 979

Delta R.T. 0.13 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

Instrument :

MSVOA_D

ClientSampleId :

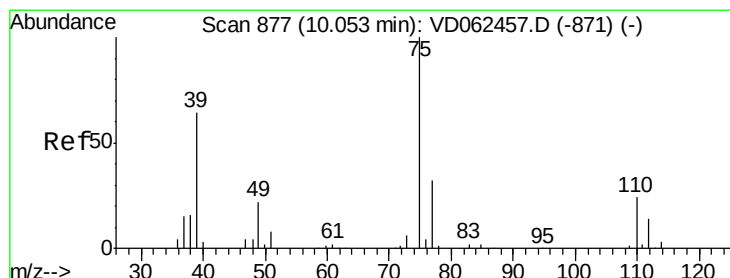
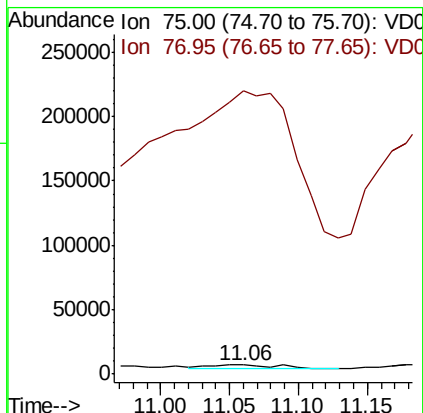
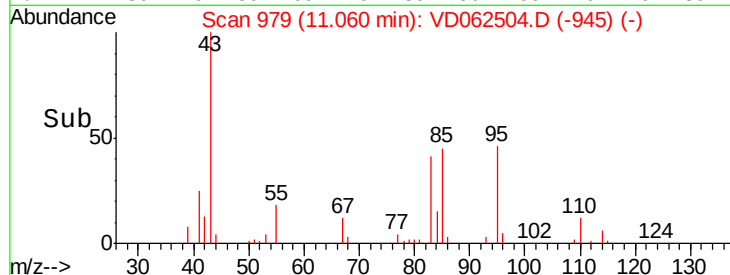
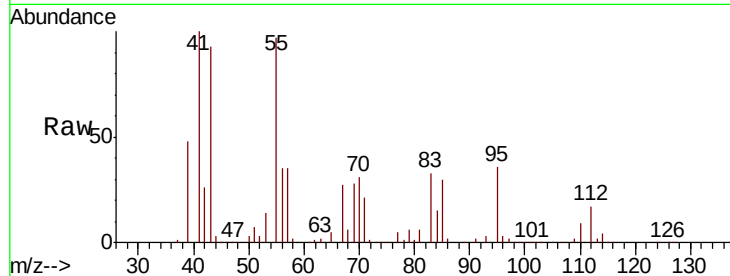
P-2(4.5-5.0)

Tot Ion: 75 Resp: 11235

Ion Ratio Lower Upper

75 100

77 3049.5 25.8 38.8#



#54

cis-1,3-Dichloropropene

Concen: 34.565 ug/l

RT: 10.09 min Scan# 880

Delta R.T. 0.03 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

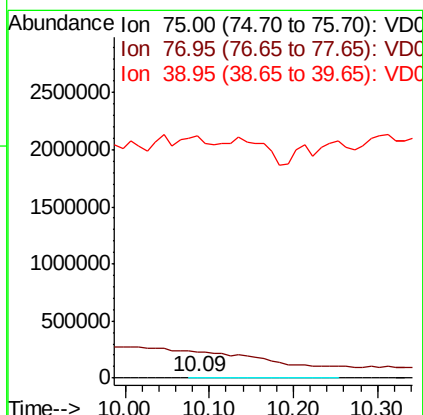
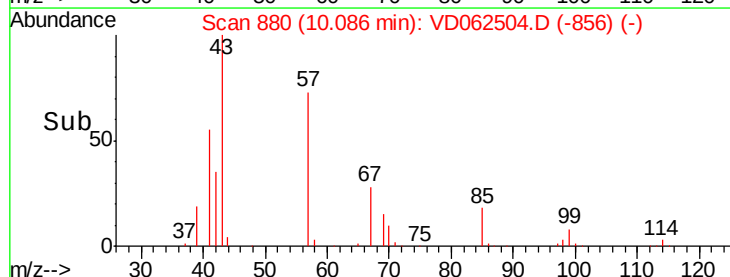
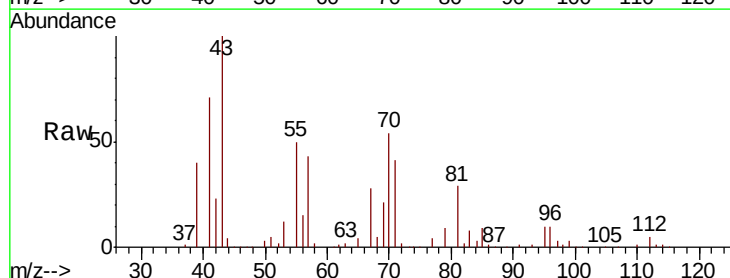
Tgt Ion: 75 Resp: 22042

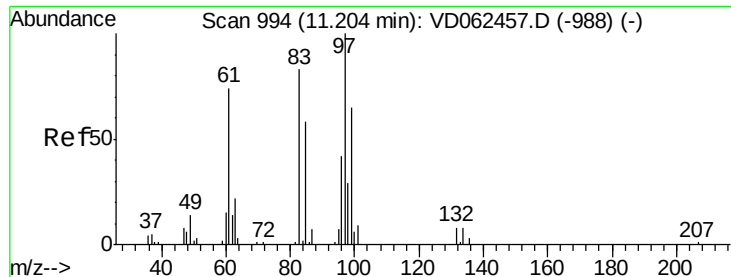
Ion Ratio Lower Upper

75 100

77 3071.1 25.5 38.3#

39 28364.5 39.4 59.2#

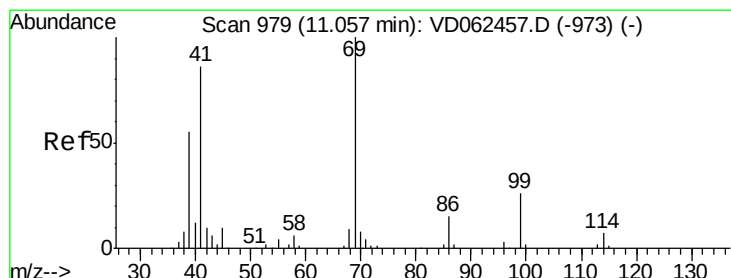
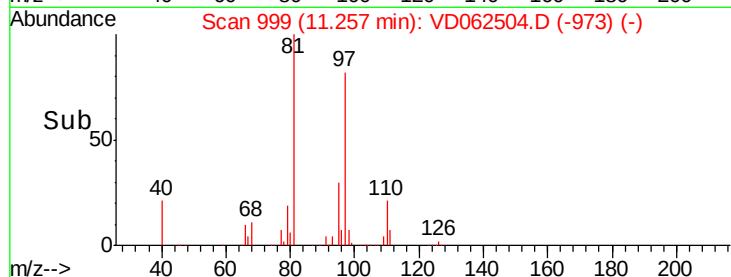
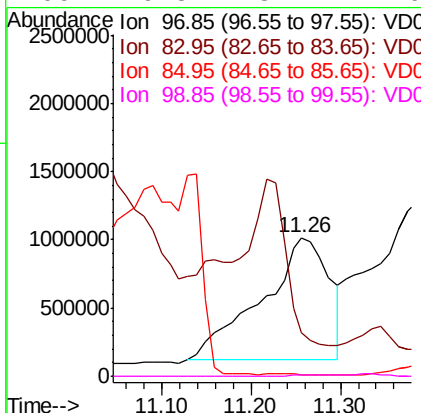
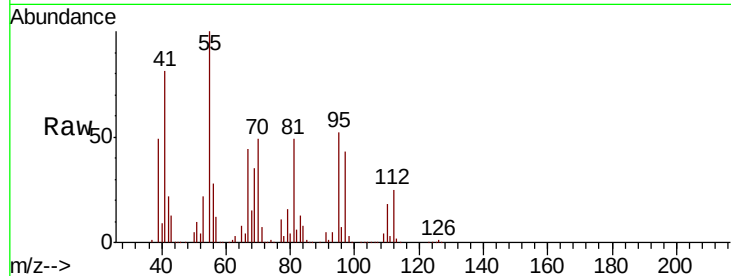




#55
 1,1,2-Trichloroethane
 Concen: 15451.833 ug/l
 RT: 11.26 min Scan# 999
 Delta R.T. 0.05 min
 Lab File: VD062504.D
 Acq: 22 May 2019 15:54

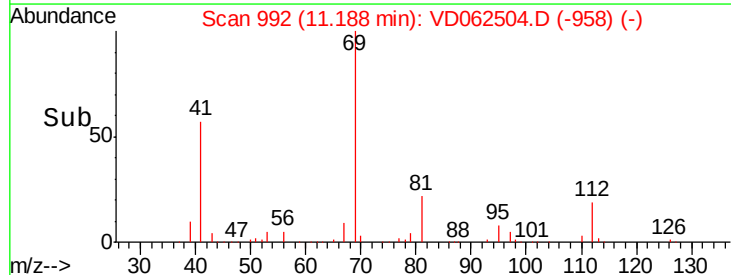
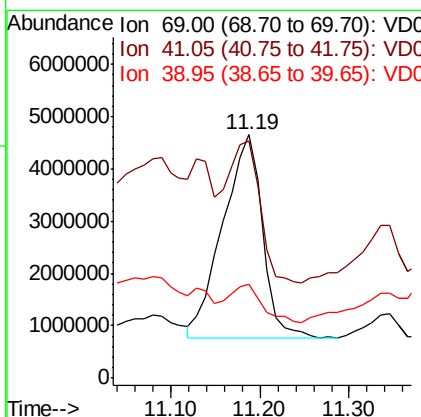
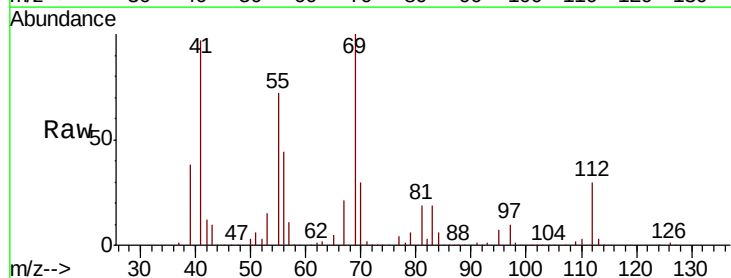
Instrument :
 MSVOA_D
 ClientSampleId :
 P-2(4.5-5.0)

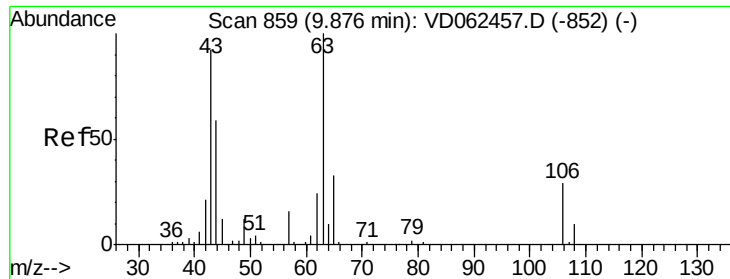
Tot Ion: 97 Resp: 4683051
 Ion Ratio Lower Upper
 97 100
 83 31.2 65.7 98.5#
 85 1.3 45.6 68.4#
 99 0.8 48.4 72.6#



#56
 Ethyl methacrylate
 Concen: 37235.626 ug/l
 RT: 11.19 min Scan# 992
 Delta R.T. 0.13 min
 Lab File: VD062504.D
 Acq: 22 May 2019 15:54

Tgt Ion: 69 Resp: 12064155
 Ion Ratio Lower Upper
 69 100
 41 97.4 56.3 84.5#
 39 38.3 29.4 44.2

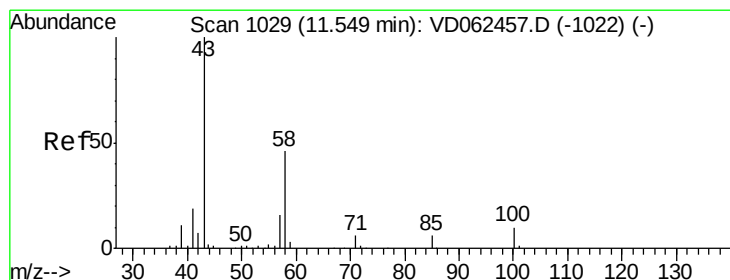
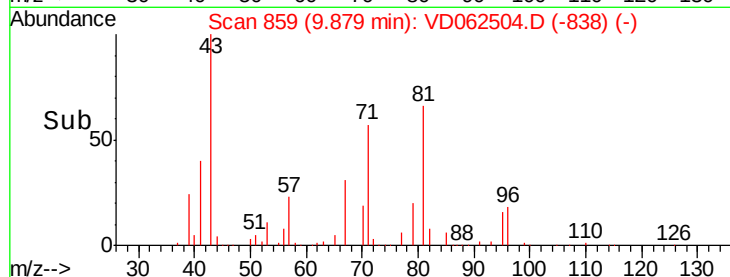
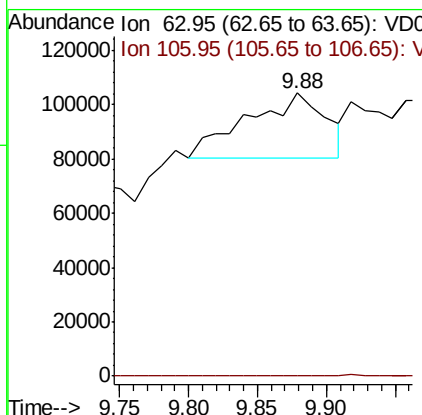
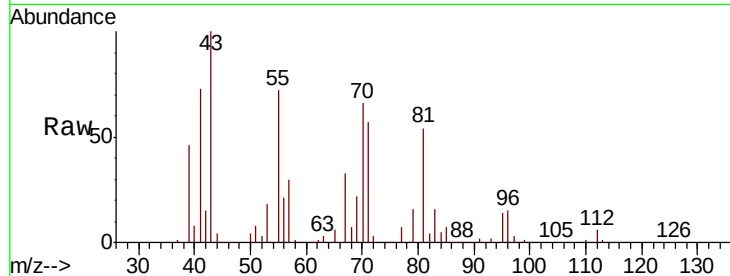




#58
 2-Chloroethyl Vinyl ether
 Concen: 578.277 ug/l
 RT: 9.88 min Scan# 859
 Delta R.T. 0.00 min
 Lab File: VD062504.D
 Acq: 22 May 2019 15:54

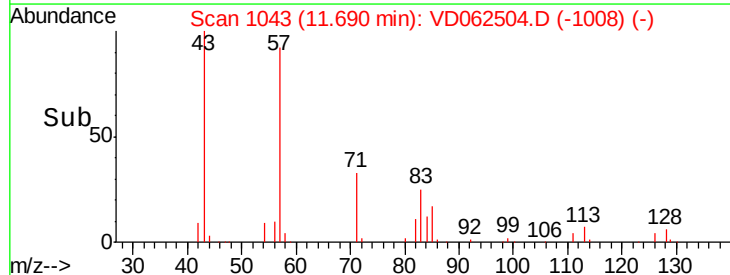
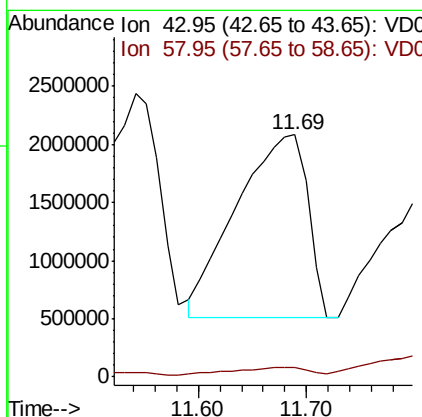
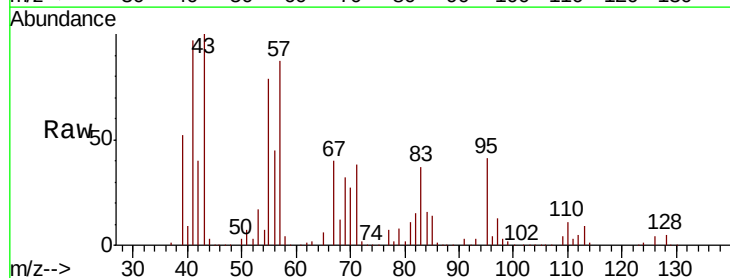
Instrument :
 MSVOA_D
 ClientSampleId :
 P-2(4.5-5.0)

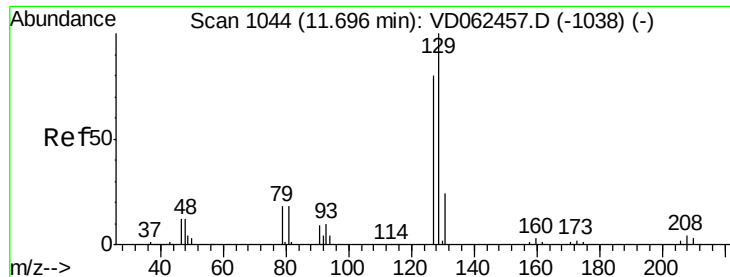
Tot Ion: 63 Resp: 96207
 Ion Ratio Lower Upper
 63 100
 106 0.0 22.6 34.0#



#59
 2-Hexanone
 Concen: 44022.202 ug/l
 RT: 11.69 min Scan# 1043
 Delta R.T. 0.14 min
 Lab File: VD062504.D
 Acq: 22 May 2019 15:54

Tgt Ion: 43 Resp: 7253977
 Ion Ratio Lower Upper
 43 100
 58 3.7 25.4 76.4#





#60

Dibromochloromethane

Concen: 50.961 ug/l

RT: 11.68 min Scan# 1042

Delta R.T. -0.02 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

Instrument :

MSVOA_D

ClientSampleId :

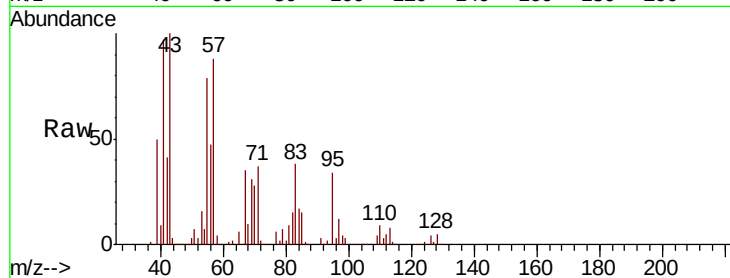
P-2(4.5-5.0)

Tot Ion:129 Resp: 29665

Ion Ratio Lower Upper

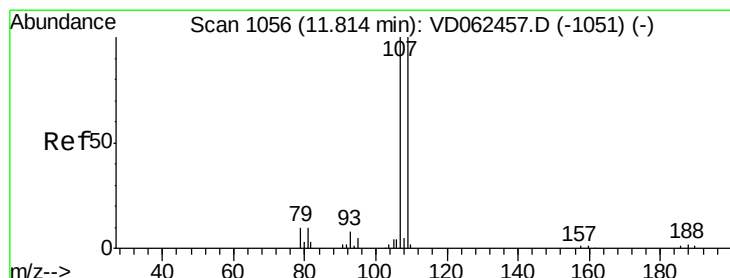
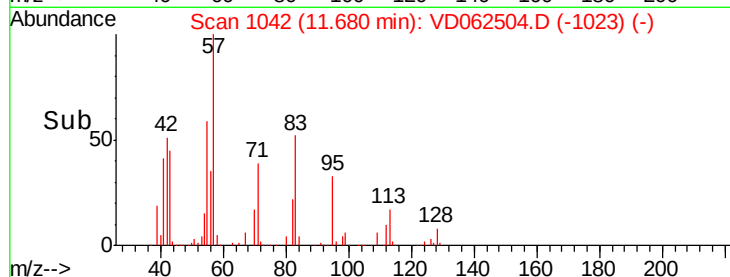
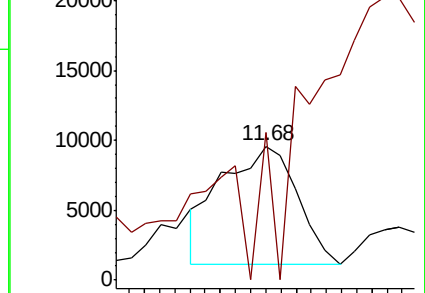
129 100

127 110.0 38.0 113.9



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#61

1,2-Dibromoethane

Concen: 240.503 ug/l

RT: 11.98 min Scan# 1073

Delta R.T. 0.17 min

Lab File: VD062504.D

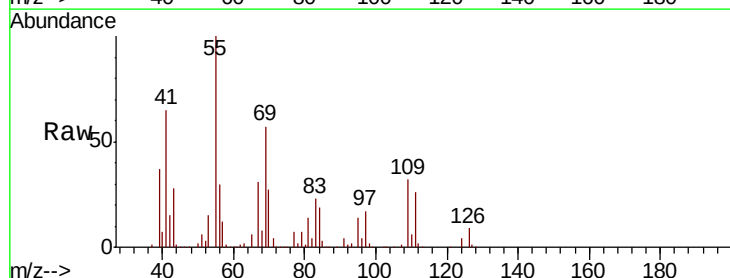
Acq: 22 May 2019 15:54

Tgt Ion:107 Resp: 89828

Ion Ratio Lower Upper

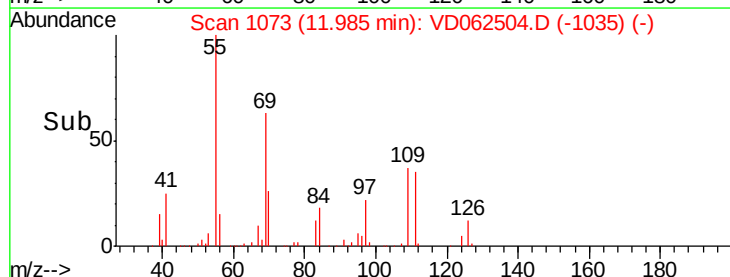
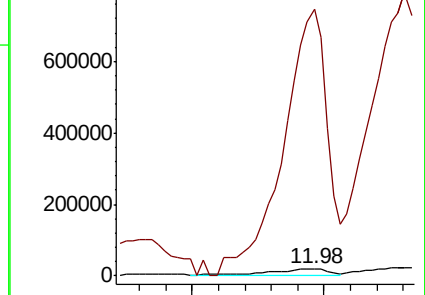
107 100

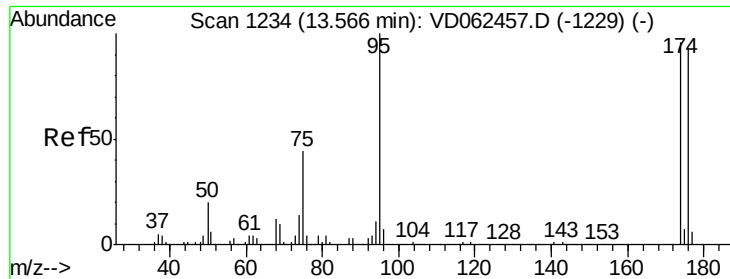
109 3560.9 78.3 117.5#



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V





#62

4-Bromofluorobenzene

Concen: 89.556 ug/l

RT: 13.71 min Scan# 1248

Delta R.T. 0.14 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

Instrument :

MSVOA_D

ClientSampleId :

P-2(4.5-5.0)

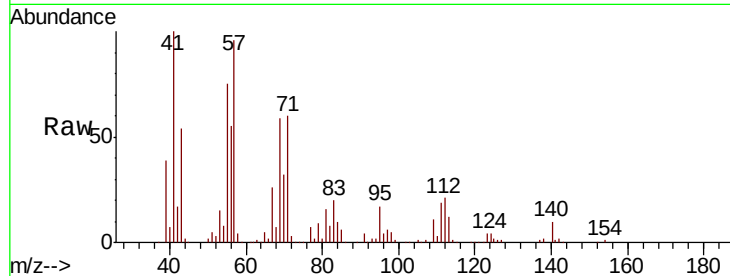
Tot Ion: 95 Resp: 53870

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

200000

150000

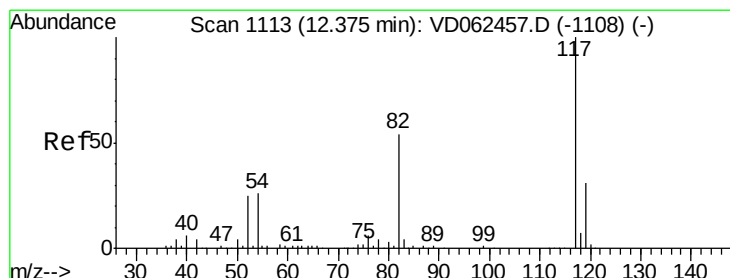
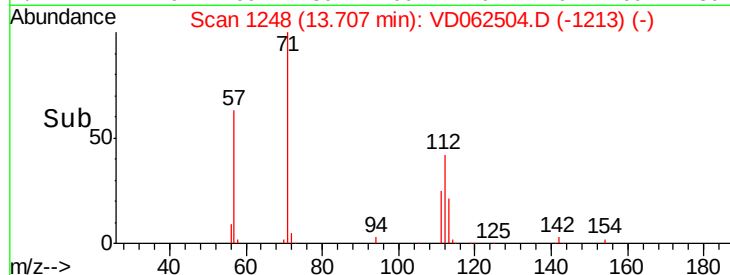
100000

50000

0

13.71

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.49 min Scan# 1124

Delta R.T. 0.11 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

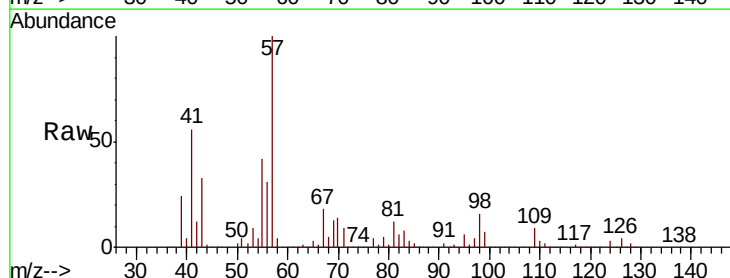
Tgt Ion: 117 Resp: 117018

Ion Ratio Lower Upper

117 100

82 807.4 36.2 54.2#

119 28.3 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

300000

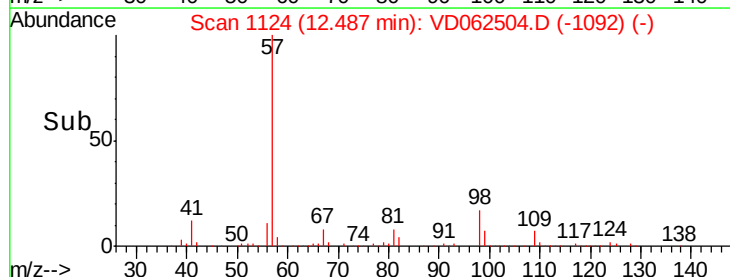
200000

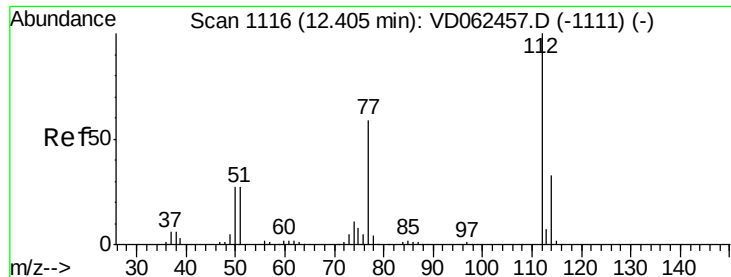
100000

0

12.49

Time-->

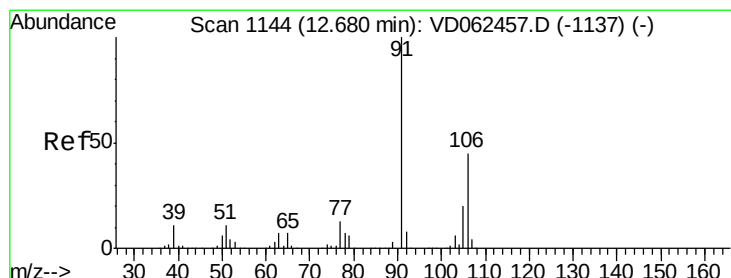
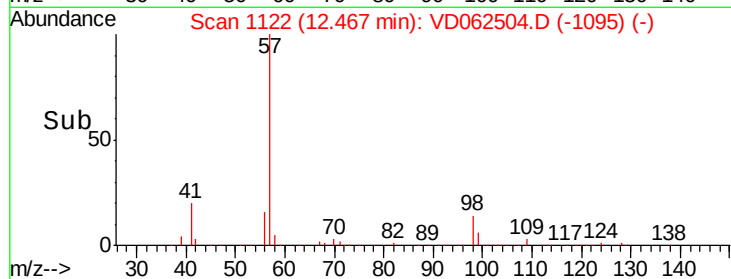
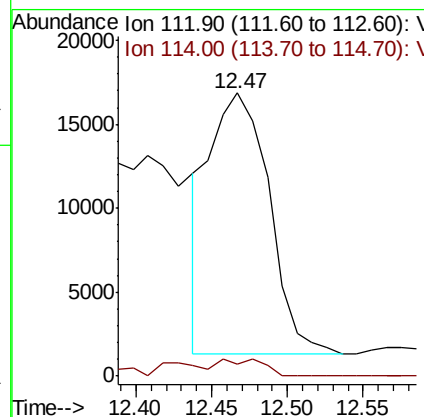
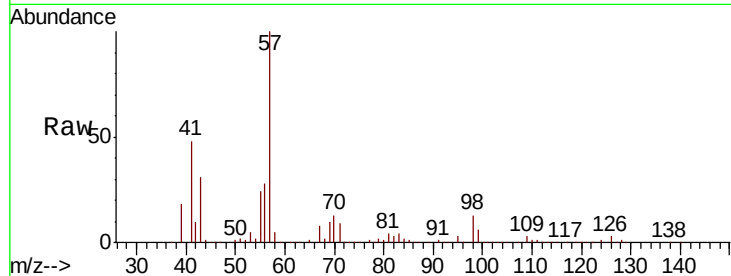




#65
Chlorobenzene
Concen: 18.932 ug/l
RT: 12.47 min Scan# 1122
Delta R.T. 0.06 min
Lab File: VD062504.D
Acq: 22 May 2019 15:54

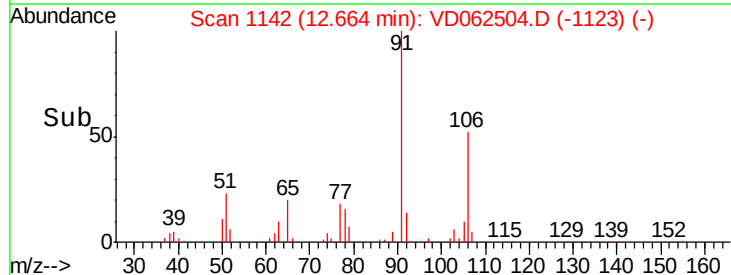
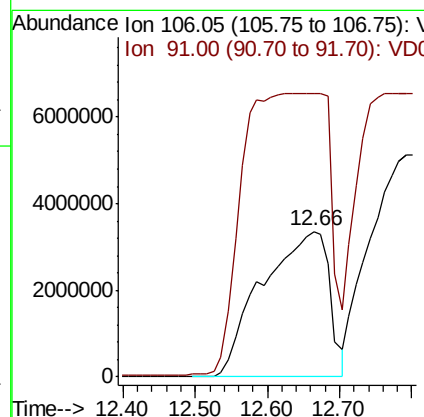
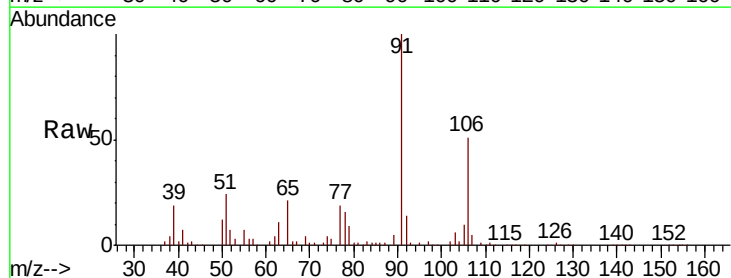
Instrument :
MSVOA_D
ClientSampleId :
P-2(4.5-5.0)

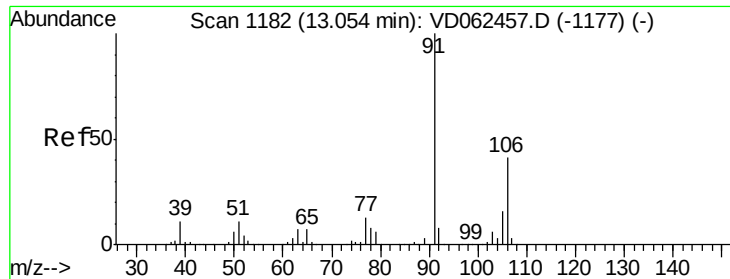
Tot Ion:112 Resp: 42603
Ion Ratio Lower Upper
112 100
114 4.4 25.8 38.8#



#68
m/p-Xylenes
Concen: 15532.812 ug/l
RT: 12.66 min Scan# 1142
Delta R.T. -0.02 min
Lab File: VD062504.D
Acq: 22 May 2019 15:54

Tgt Ion:106 Resp:21611350
Ion Ratio Lower Upper
106 100
91 194.6 164.0 246.0

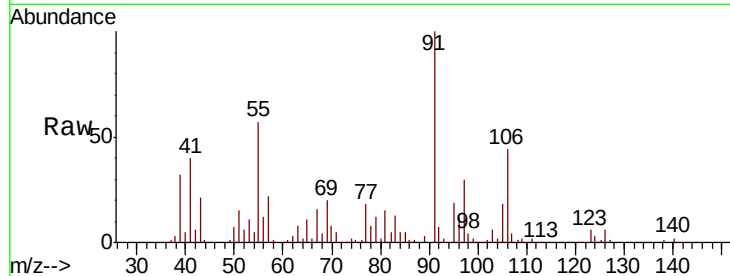




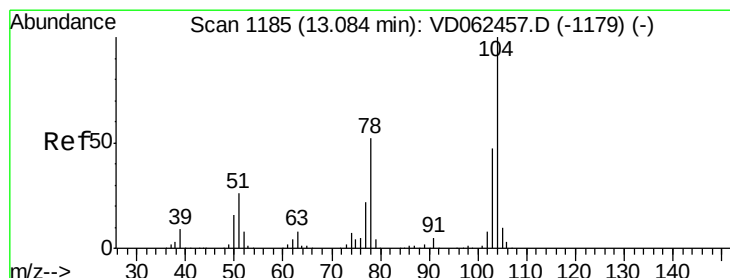
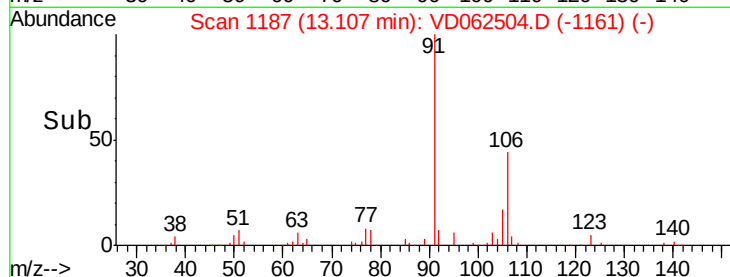
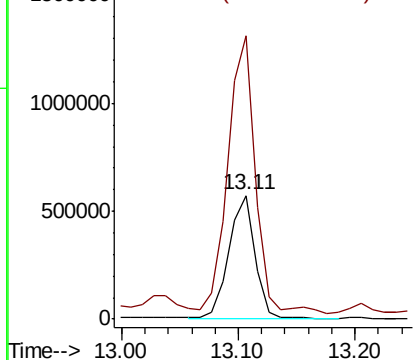
#69
o-Xylene
Concen: 670.001 ug/l
RT: 13.11 min Scan# 1187
Delta R.T. 0.05 min
Lab File: VD062504.D
Acq: 22 May 2019 15:54

Instrument :
MSVOA_D
ClientSampleId :
P-2(4.5-5.0)

Tot Ion:106 Resp: 879552
Ion Ratio Lower Upper
106 100
91 229.0 106.7 319.9

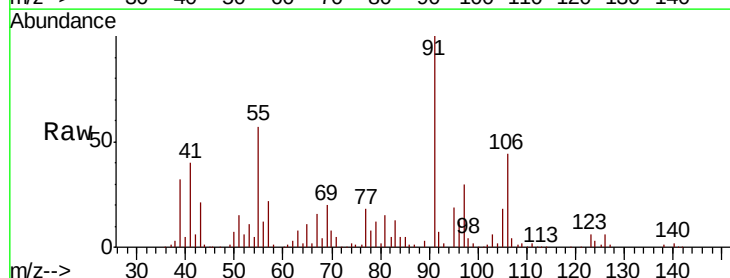


Abundance Ion 106.05 (105.75 to 106.75): V
1500000 Ion 91.00 (90.70 to 91.70): V

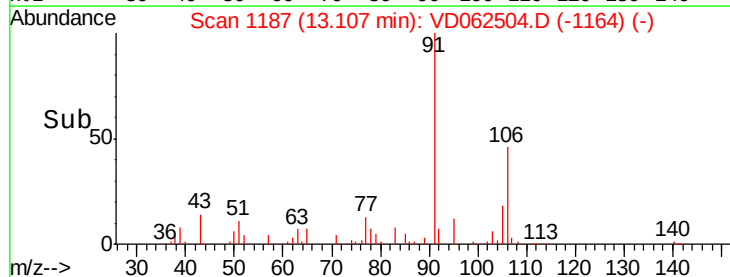
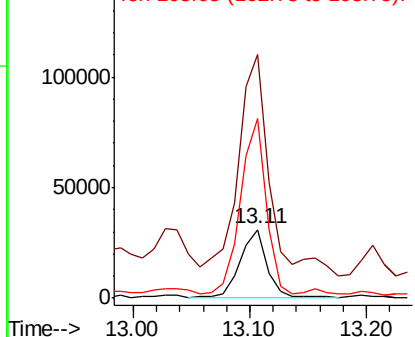


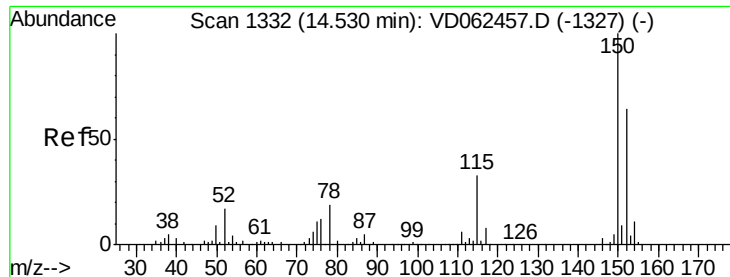
#70
Styrene
Concen: 22.805 ug/l
RT: 13.11 min Scan# 1187
Delta R.T. 0.02 min
Lab File: VD062504.D
Acq: 22 May 2019 15:54

Tgt Ion:104 Resp: 50929
Ion Ratio Lower Upper
104 100
78 354.6 35.4 53.2#
103 261.9 37.5 56.3#



Abundance Ion 104.05 (103.75 to 104.75): V
150000 Ion 77.95 (77.65 to 78.65): V
Ion 103.05 (102.75 to 103.75): V

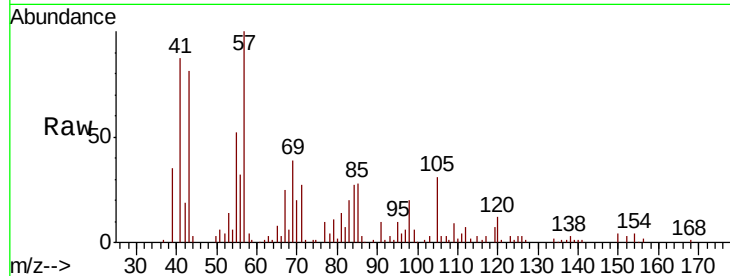




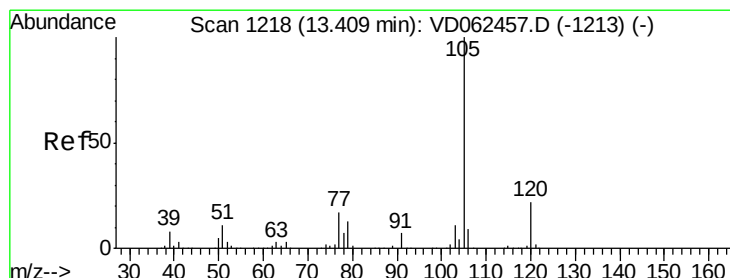
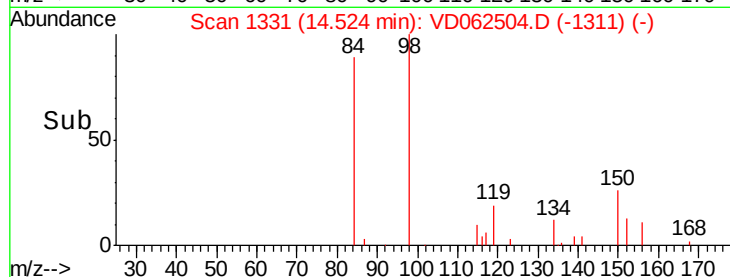
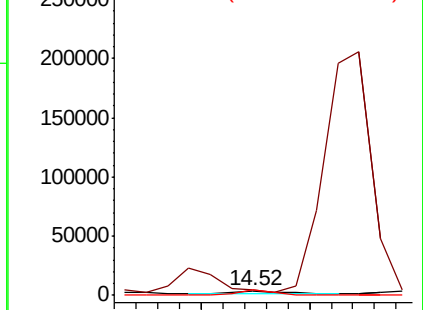
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.52 min Scan# 1331
 Delta R.T. -0.01 min
 Lab File: VD062504.D
 Acq: 22 May 2019 15:54

Instrument :
 MSVOA_D
 ClientSampleId :
 P-2(4.5-5.0)

Tot Ion:152 Resp: 4819
 Ion Ratio Lower Upper
 152 100
 115 109.6 30.9 92.7#
 150 115.0 0.0 314.8

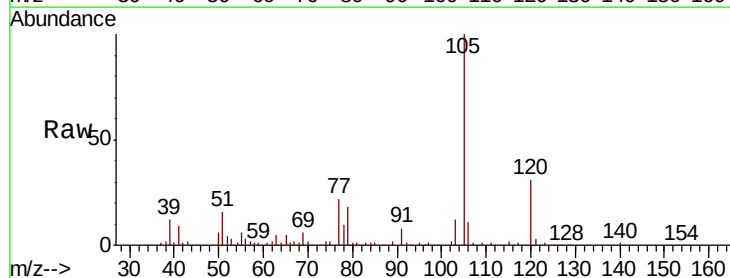


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 115.00 (114.70 to 115.70): V
 Ion 149.90 (149.60 to 150.60): V

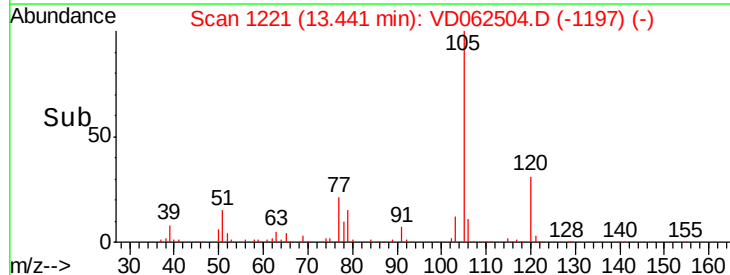
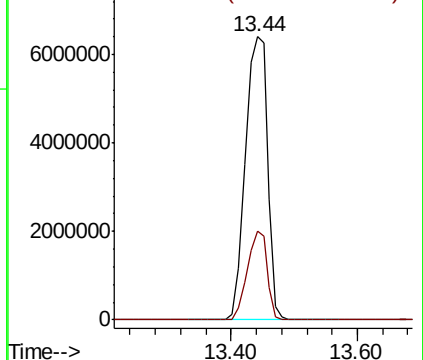


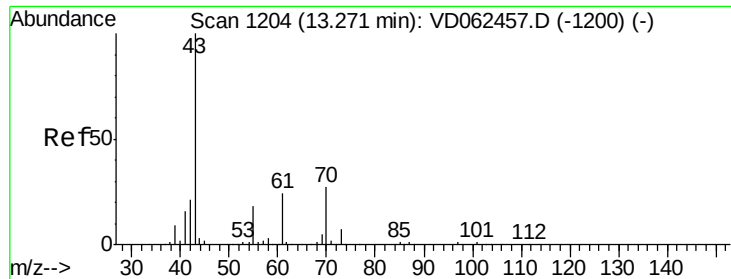
#73
 Isopropylbenzene
 Concen: 51464.647 ug/l
 RT: 13.44 min Scan# 1221
 Delta R.T. 0.03 min
 Lab File: VD062504.D
 Acq: 22 May 2019 15:54

Tgt Ion:105 Resp:15632891
 Ion Ratio Lower Upper
 105 100
 120 31.4 12.0 36.1



Abundance Ion 105.05 (104.75 to 105.75): V
 Ion 120.05 (119.75 to 120.75): V





#74

N-amvl acetate

Concen: 19173.537 ug/l

RT: 13.25 min Scan# 1202

Delta R.T. -0.02 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

Instrument :

MSVOA_D

ClientSampleId :

P-2(4.5-5.0)

Tot Ion: 43 Resp: 1438466

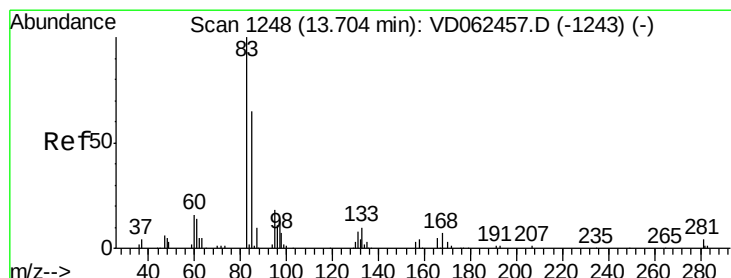
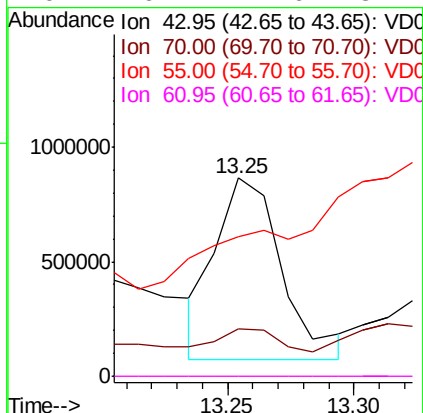
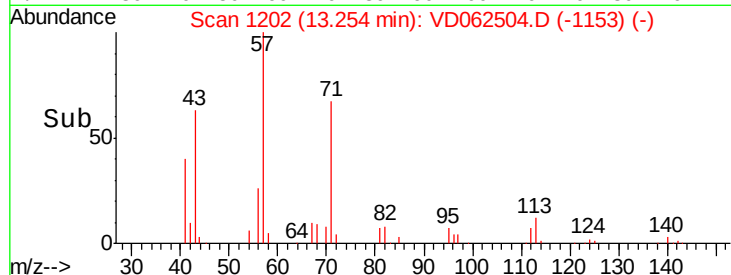
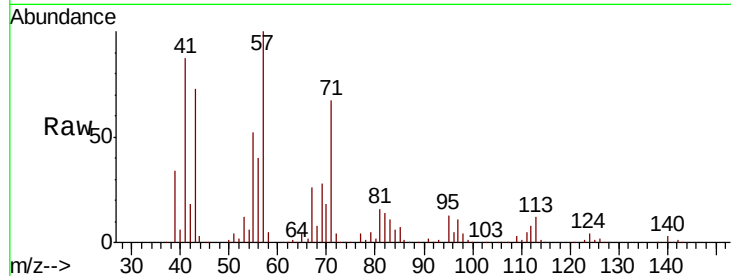
Ion Ratio Lower Upper

43 100

70 23.9 24.2 36.4#

55 70.2 16.0 24.0#

61 0.1 21.6 32.4#



#75

1,1,2,2-Tetrachloroethane

Concen: 2967.745 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. -0.01 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

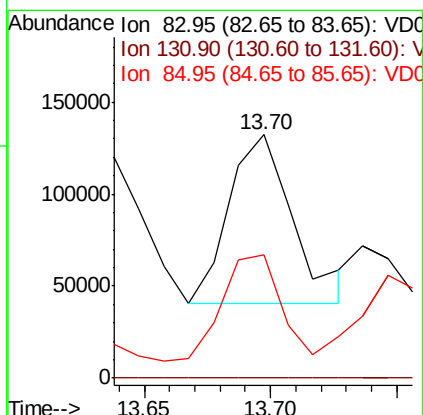
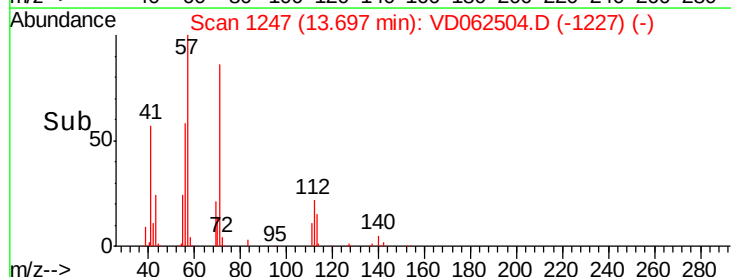
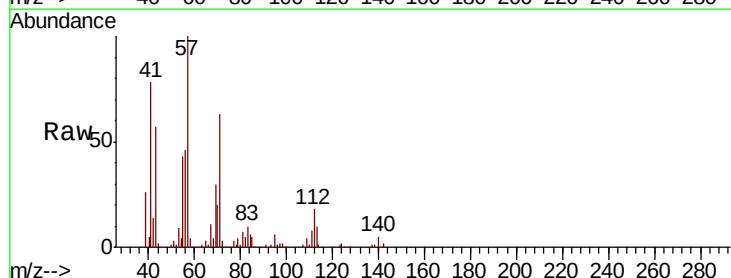
Tgt Ion: 83 Resp: 162634

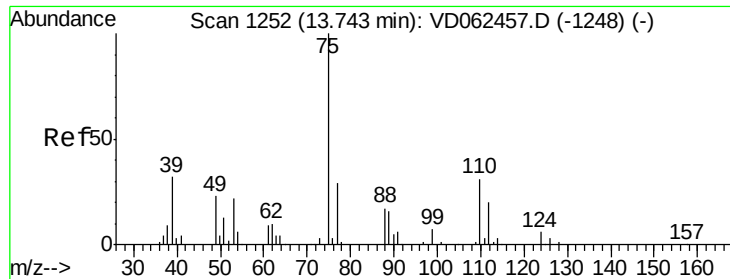
Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

85 50.8 32.6 97.7





#76

1,2,3-Trichloropropane

Concen: 2045.182 ug/l

RT: 13.80 min Scan# 1257

Delta R.T. 0.05 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

Instrument :

MSVOA_D

ClientSampleId :

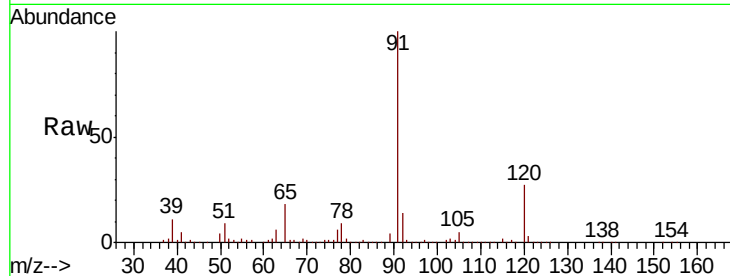
P-2(4.5-5.0)

Tot Ion: 75 Resp: 116089

Ion Ratio Lower Upper

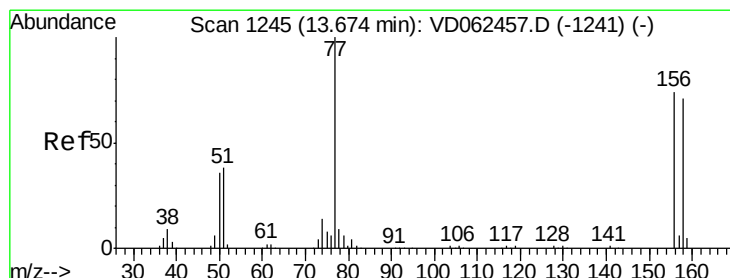
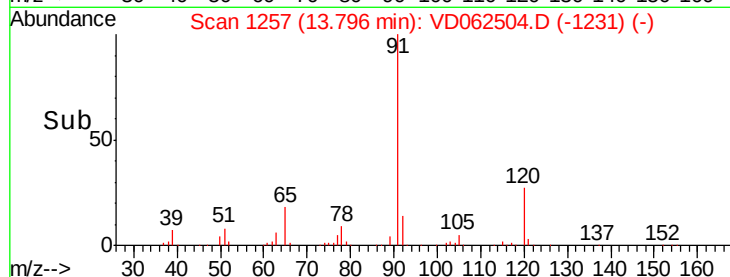
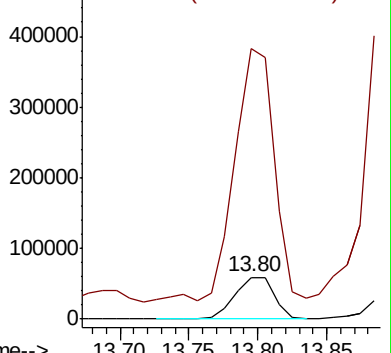
75 100

77 644.4 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: 9.586 ug/l

RT: 13.61 min Scan# 1238

Delta R.T. -0.07 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

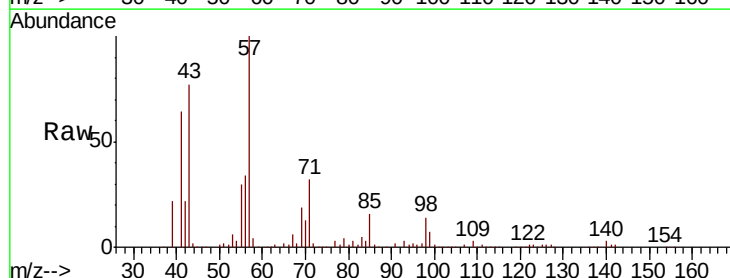
Tgt Ion: 156 Resp: 826

Ion Ratio Lower Upper

156 100

77 10172.5 53.1 159.4#

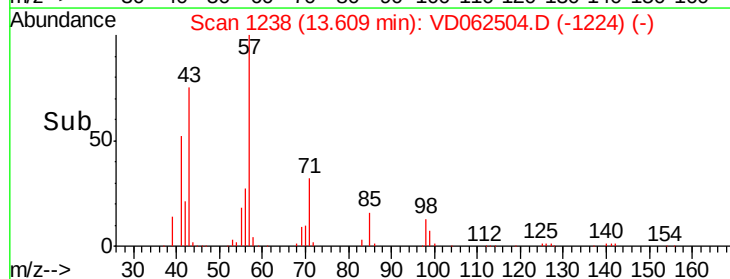
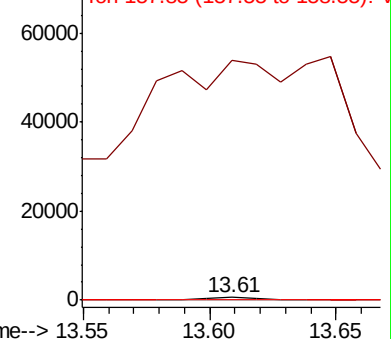
158 0.0 49.4 148.0#

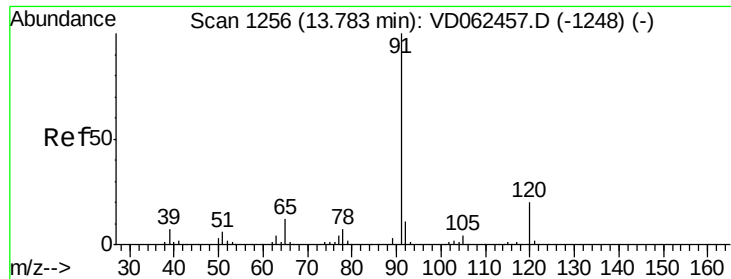


Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): VDC

Ion 157.85 (157.55 to 158.55): V





#78

n-propylbenzene

Concen: 39595.649 ug/l

RT: 13.80 min Scan# 1257

Delta R.T. 0.01 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

Instrument :

MSVOA_D

ClientSampleId :

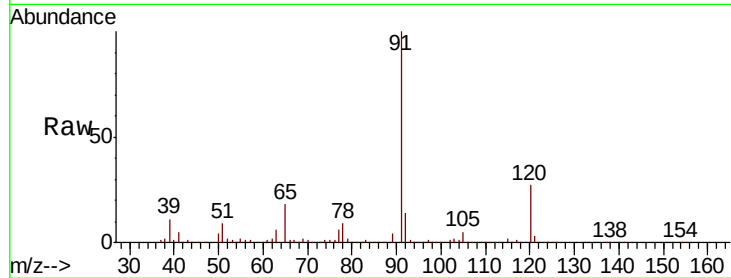
P-2(4.5-5.0)

Tot Ion: 91 Resp:13931933

Ion Ratio Lower Upper

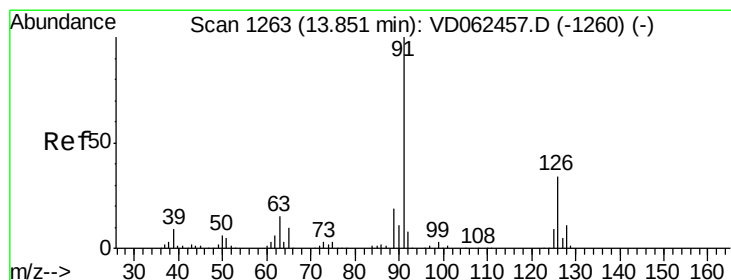
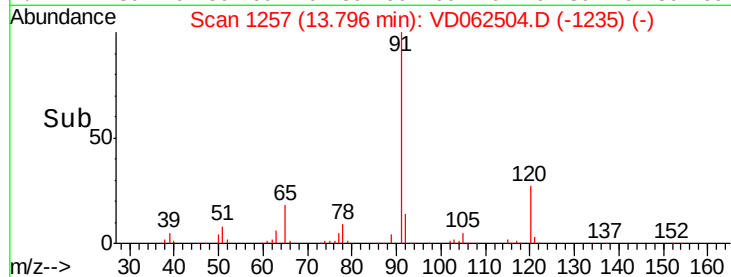
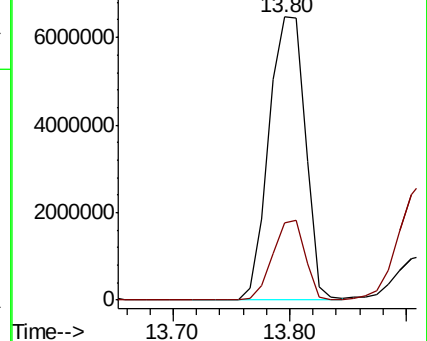
91 100

120 27.1 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: 65246.660 ug/l

RT: 13.80 min Scan# 1257

Delta R.T. -0.06 min

Lab File: VD062504.D

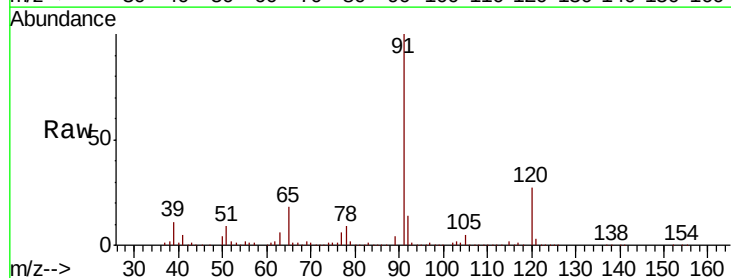
Acq: 22 May 2019 15:54

Tgt Ion: 91 Resp:13931933

Ion Ratio Lower Upper

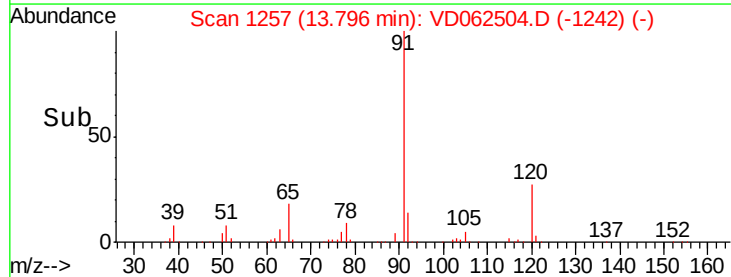
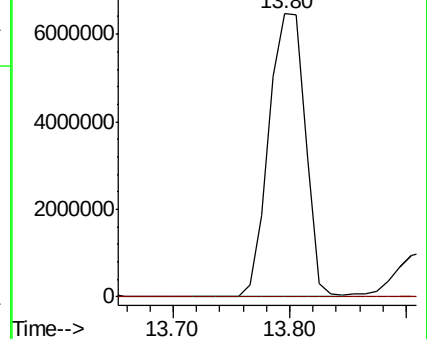
91 100

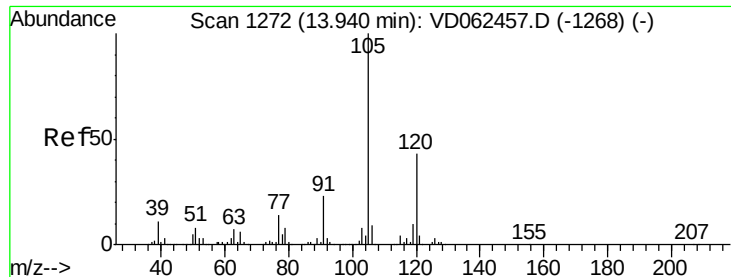
126 0.0 18.6 55.8#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V

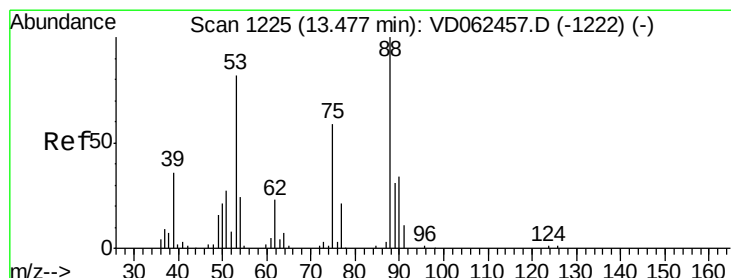
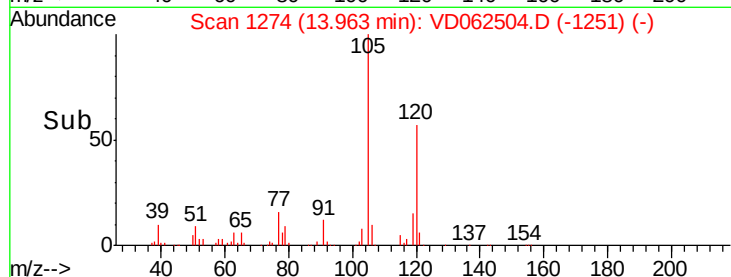
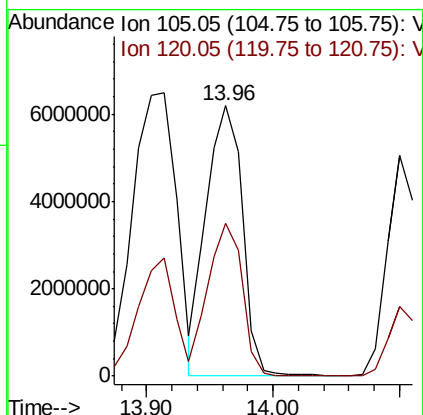
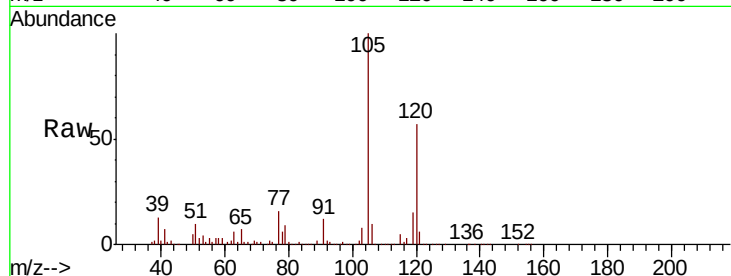




#80
 1,3,5-Trimethylbenzene
 Concen: 46513.614 ug/l
 RT: 13.96 min Scan# 1274
 Delta R.T. 0.02 min
 Lab File: VD062504.D
 Acq: 22 May 2019 15:54

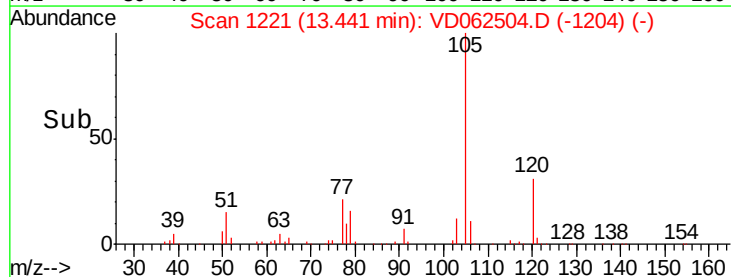
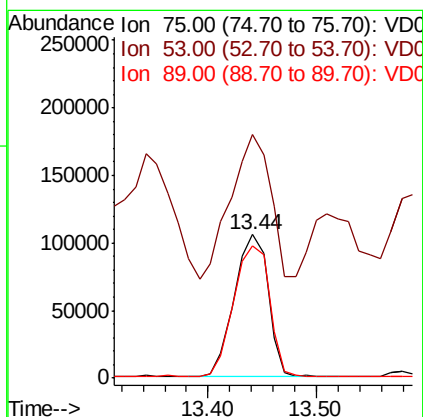
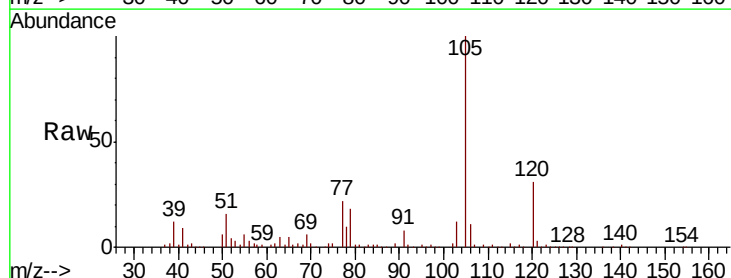
Instrument :
 MSVOA_D
 ClientSampleId :
 P-2(4.5-5.0)

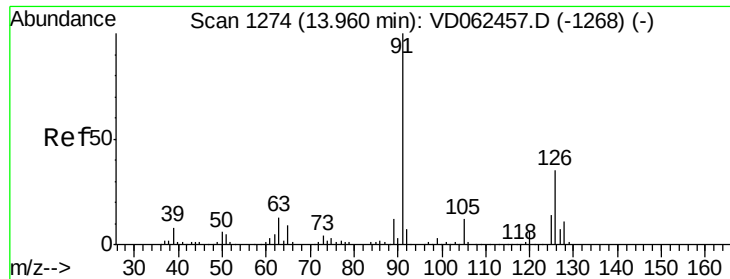
Tot Ion:105 Resp:12233562
 Ion Ratio Lower Upper
 105 100
 120 56.7 24.0 72.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 14367.576 ug/l
 RT: 13.44 min Scan# 1221
 Delta R.T. -0.04 min
 Lab File: VD062504.D
 Acq: 22 May 2019 15:54

Tgt Ion: 75 Resp: 230003
 Ion Ratio Lower Upper
 75 100
 53 169.5 65.8 98.8#
 89 91.9 35.0 52.6#





#82

4-Chlorotoluene

Concen: 5736.134 ug/l

RT: 13.96 min Scan# 1274

Delta R.T. 0.00 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

Instrument :

MSVOA_D

ClientSampled :

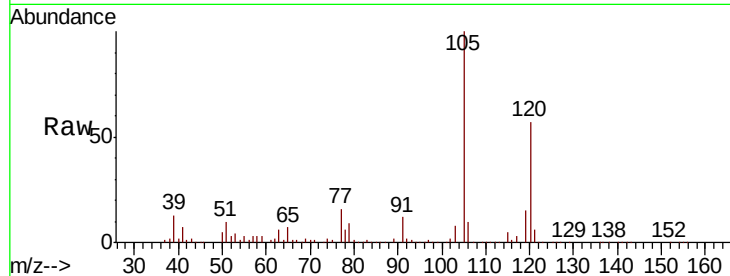
P-2(4.5-5.0)

Tot Ion: 91 Resp: 1410566

Ion Ratio Lower Upper

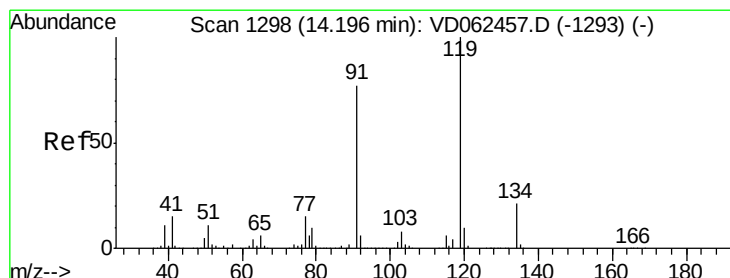
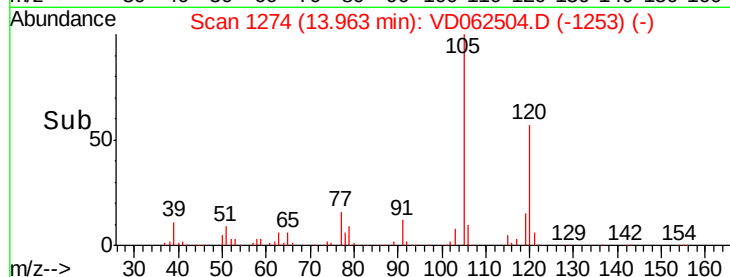
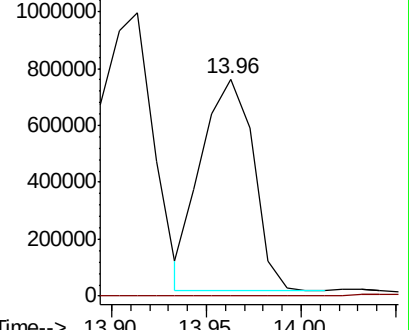
91 100

126 0.1 19.1 57.5#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#83

tert-Butylbenzene

Concen: 10803.483 ug/l

RT: 14.28 min Scan# 1306

Delta R.T. 0.08 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

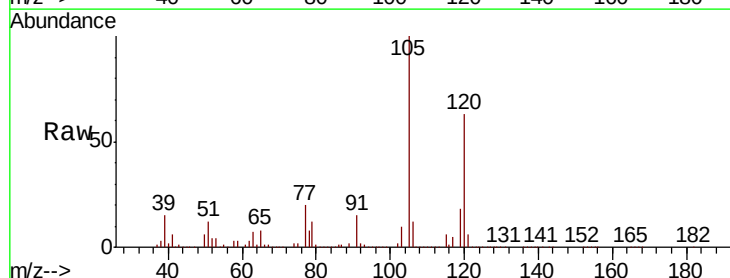
Tgt Ion: 119 Resp: 3151819

Ion Ratio Lower Upper

119 100

91 87.2 34.2 102.6

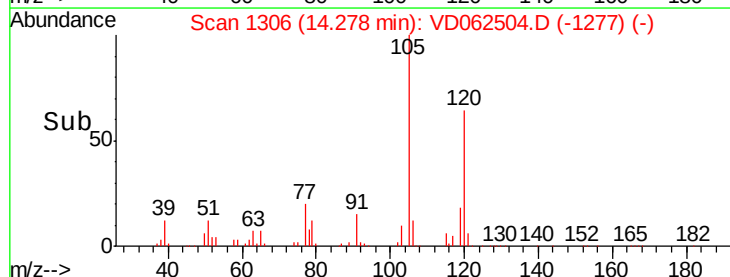
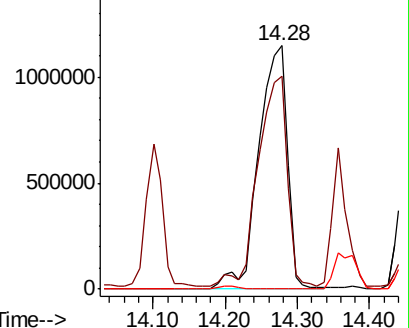
134 0.0 12.0 36.0#

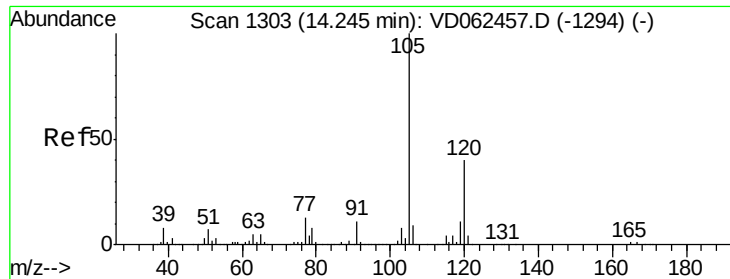


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V

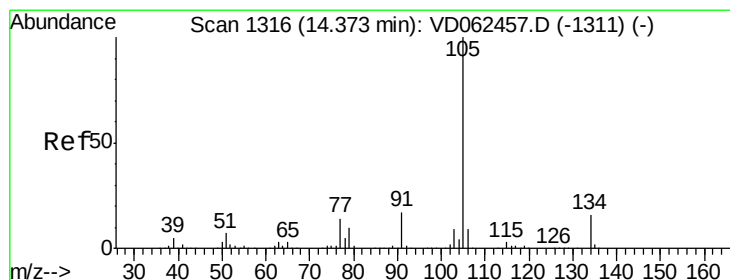
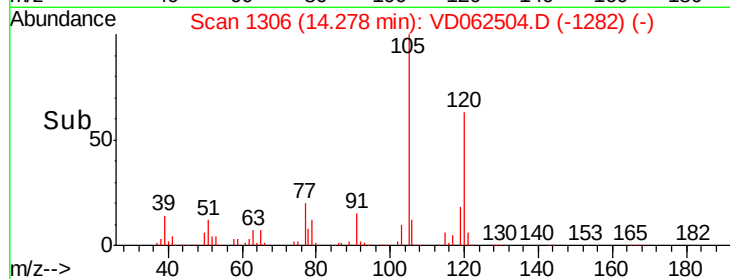
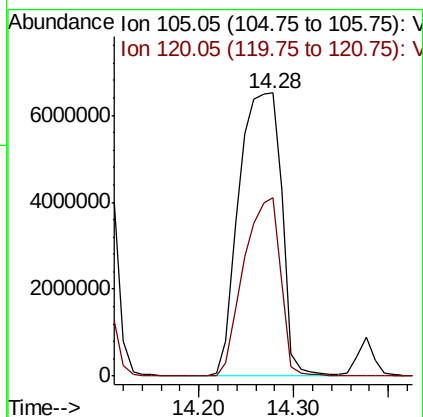
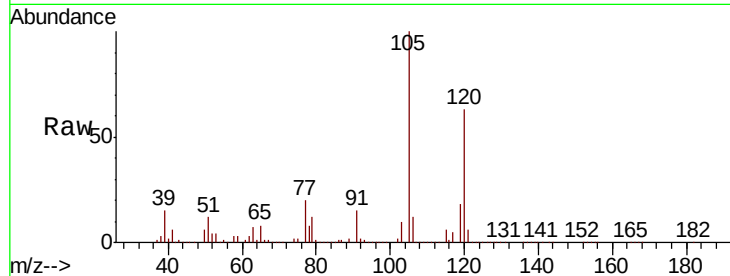




#84
 1,2,4-Trimethylbenzene
 Concen: 75214.752 ug/l
 RT: 14.28 min Scan# 1306
 Delta R.T. 0.03 min
 Lab File: VD062504.D
 Acq: 22 May 2019 15:54

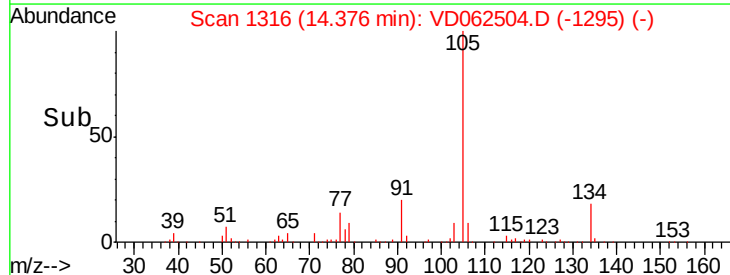
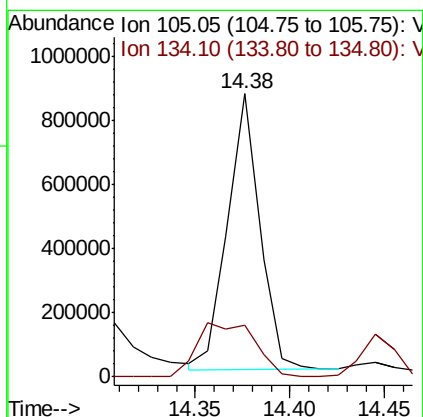
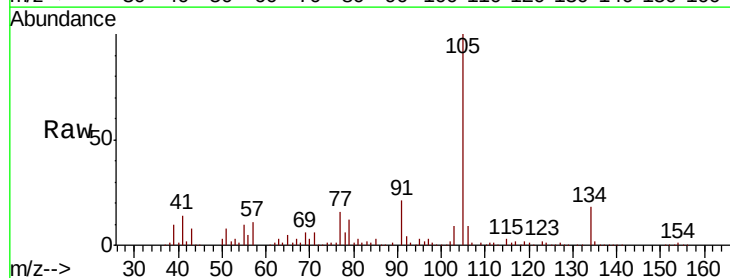
Instrument :
 MSVOA_D
 ClientSampleId :
 P-2(4.5-5.0)

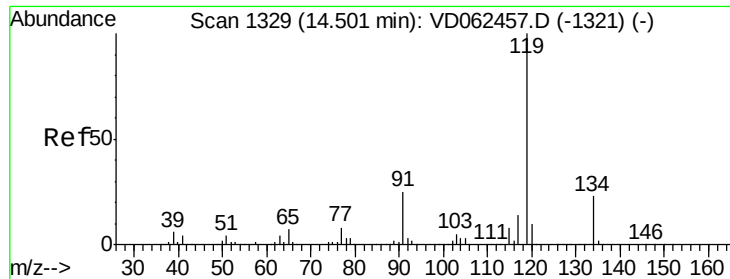
Tot Ion:105 Resp:20270403
 Ion Ratio Lower Upper
 105 100
 120 63.1 23.1 69.2



#85
 sec-Butylbenzene
 Concen: 3340.892 ug/l
 RT: 14.38 min Scan# 1316
 Delta R.T. 0.00 min
 Lab File: VD062504.D
 Acq: 22 May 2019 15:54

Tgt Ion:105 Resp: 1016307
 Ion Ratio Lower Upper
 105 100
 134 18.1 8.9 26.7

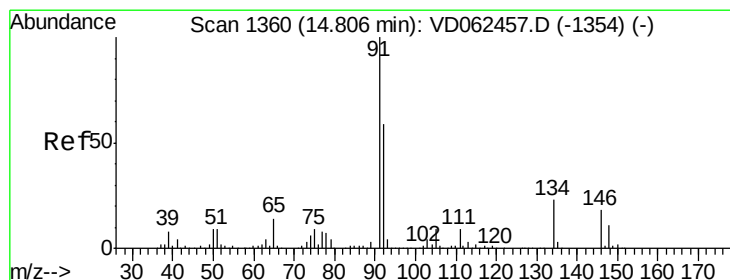
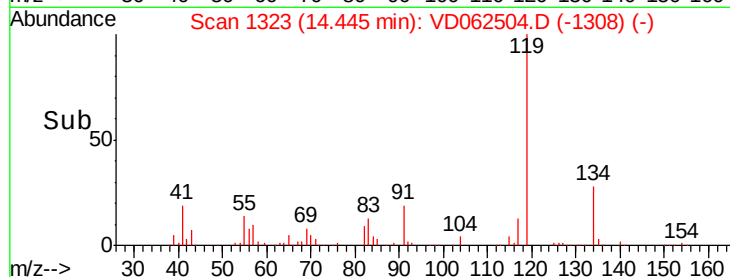
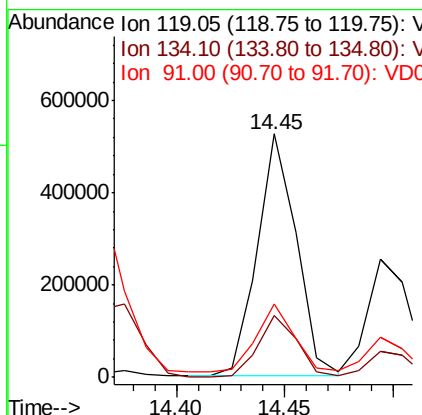
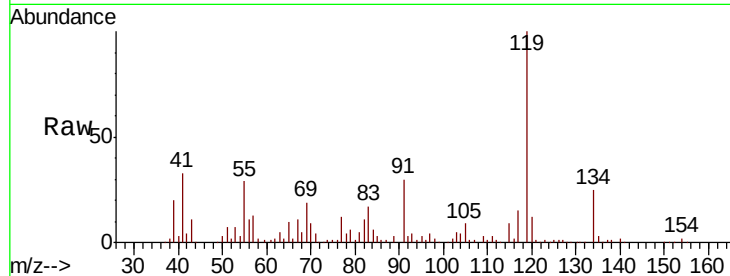




#86
 p-Isopropyltoluene
 Concen: 2371.979 ug/l
 RT: 14.45 min Scan# 1323
 Delta R.T. -0.06 min
 Lab File: VD062504.D
 Acq: 22 May 2019 15:54

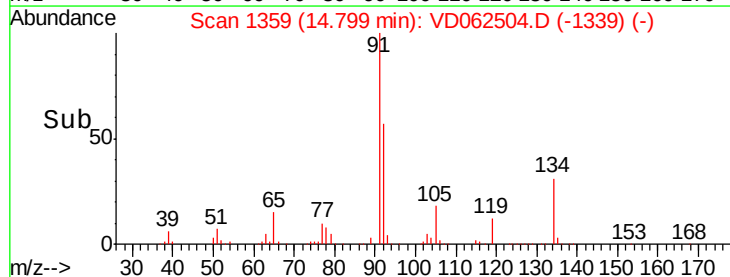
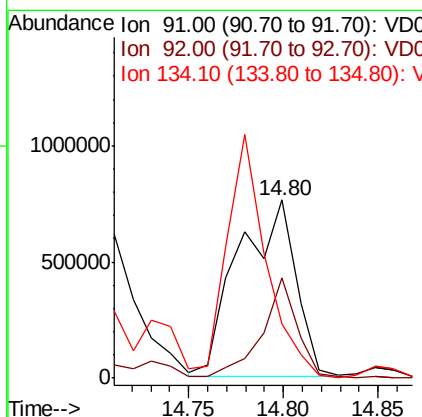
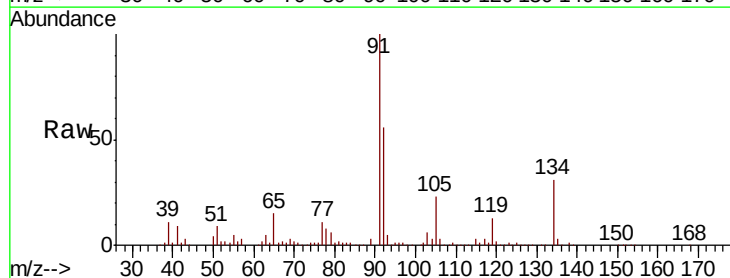
Instrument :
 MSVOA_D
 ClientSampled :
 P-2(4.5-5.0)

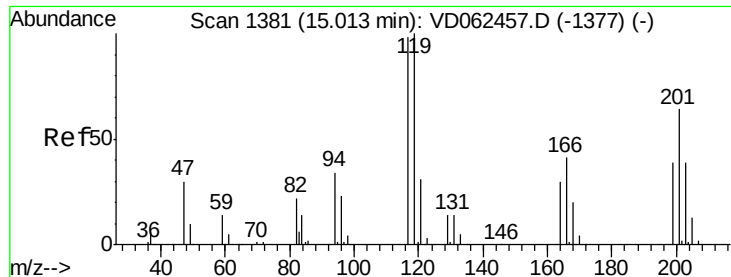
Tot Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.8	38.3
91	30.0	10.7	32.1



#89
 n-Butylbenzene
 Concen: 6031.921 ug/l
 RT: 14.80 min Scan# 1359
 Delta R.T. -0.01 min
 Lab File: VD062504.D
 Acq: 22 May 2019 15:54

Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.3	30.3	91.0
134	30.6	14.5	43.6





#90

Hexachloroethane

Concen: 3819.431 ug/l

RT: 14.98 min Scan# 1377

Delta R.T. -0.04 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

Instrument :

MSVOA_D

ClientSampleId :

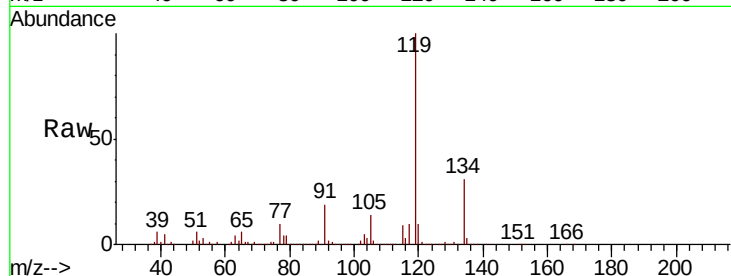
P-2(4.5-5.0)

Tot Ion:117 Resp: 290994

Ion Ratio Lower Upper

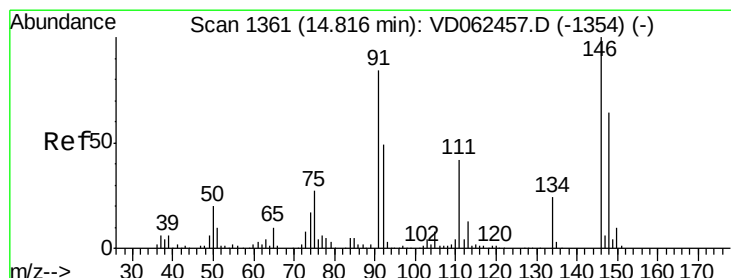
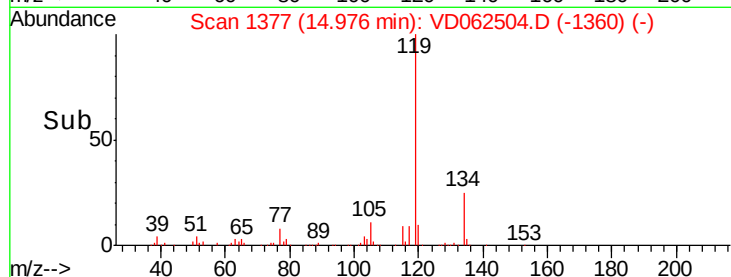
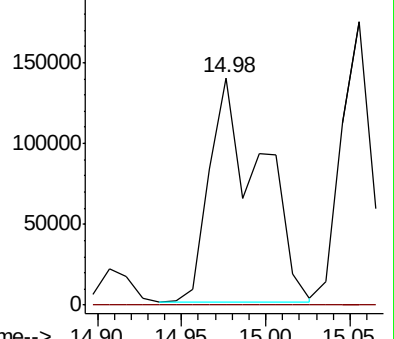
117 100

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: 1.391 ug/l

RT: 14.88 min Scan# 1367

Delta R.T. 0.06 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

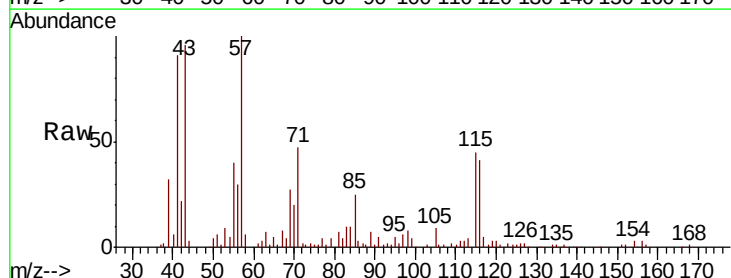
Tgt Ion:146 Resp: 180

Ion Ratio Lower Upper

146 100

111 1123.4 20.0 59.9#

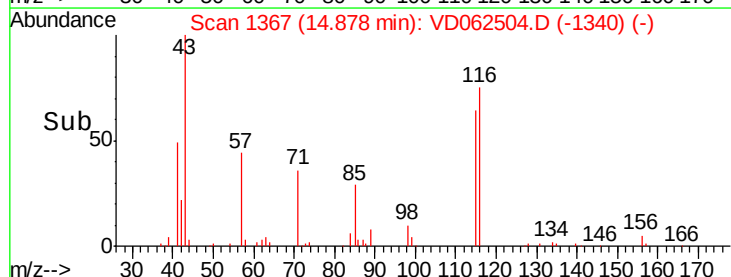
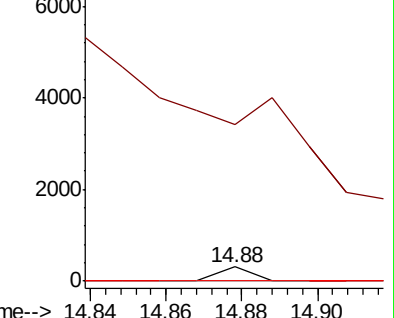
148 0.0 32.3 96.8#

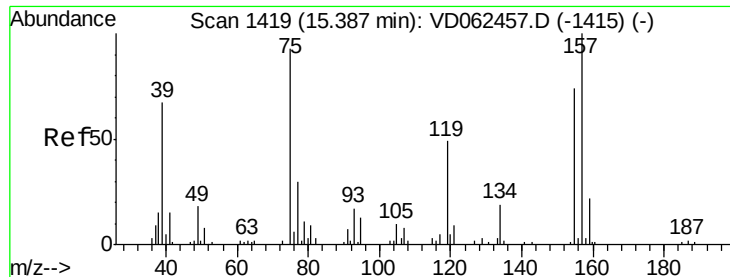


Abundance Ion 145.95 (145.65 to 146.65): V

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: 707.370 ug/l

RT: 15.37 min Scan# 1417

Delta R.T. -0.02 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

Instrument :

MSVOA_D

ClientSampleId :

P-2(4.5-5.0)

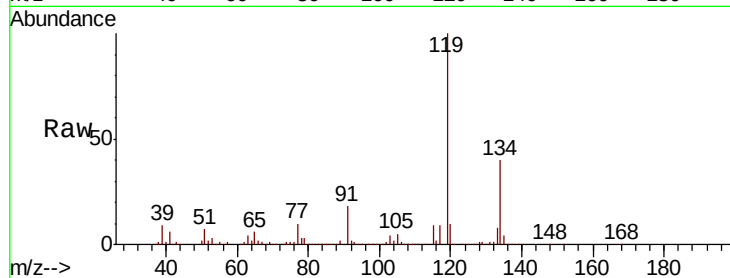
Tot Ion: 75 Resp: 7358

Ion Ratio Lower Upper

75 100

155 0.0 55.3 165.8#

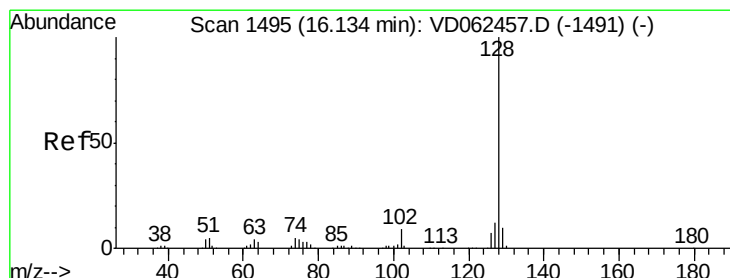
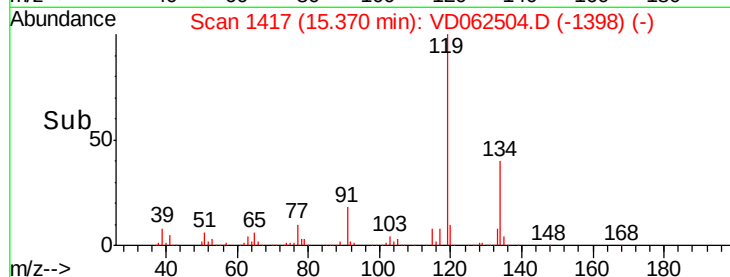
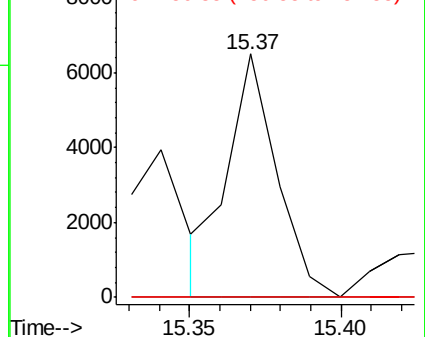
157 0.0 67.8 203.2#



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: 2192.499 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. -0.02 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

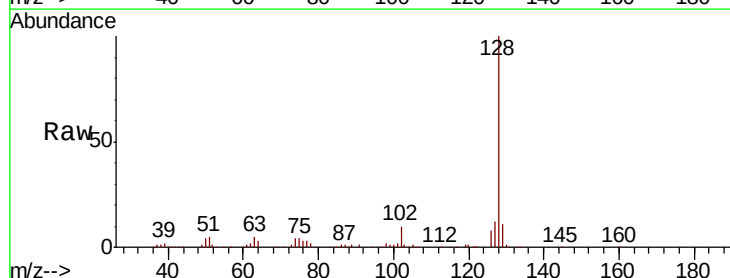
Tgt Ion: 128 Resp: 305230

Ion Ratio Lower Upper

128 100

127 12.2 9.8 14.8

129 11.3 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

