

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
 Data File : VD062510.D
 Acq On : 22 May 2019 18:35
 Operator : VA/AP
 Sample : K2996-09
 Misc : 6.12g/5ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: May 23 03:15:56 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	7.06	168	179291	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.24	114	424936	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.39	117	143034	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.53	152	81070	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	166256	86.63	ug/l	0.00
Spiked Amount			Recovery	=	173.26%	
35) Dibromofluoromethane	6.92	113	165168	43.09	ug/l	-0.02
Spiked Amount			Recovery	=	86.18%	
50) Toluene-d8	10.47	98	582884	69.48	ug/l	0.04
Spiked Amount			Recovery	=	138.96%	
62) 4-Bromofluorobenzene	13.57	95	498773	135.92	ug/l	0.00
Spiked Amount			Recovery	=	271.84%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.69	50	2420	1.948	ug/l #	43
6) Chloroethane	2.34	64	3721	5.885	ug/l #	1
11) Tert butyl alcohol	4.12	59	228	2.574	ug/l #	1
13) Acrolein	2.97	56	467462	6354.247	ug/l #	1
15) Acrylonitrile	4.26	53	1291215	6360.924	ug/l #	42
16) Acetone	3.17	43	3041728	8844.389	ug/l #	59
17) Carbon Disulfide	3.37	76	33510	8.333	ug/l	97
19) Methyl tert-butyl Ether	4.25	73	10392	3.389	ug/l #	1
20) Methylene Chloride	3.70	84	111957	80.057	ug/l #	15
23) Vinyl Acetate	5.10	43	661236	262.601	ug/l #	84
24) 1,1-Dichloroethane	5.11	63	337675	125.818	ug/l #	85
25) 2-Butanone	6.03	43	620680	1725.533	ug/l #	57
26) 2,2-Dichloropropane	6.14	77	3416	1.181	ug/l #	51
28) Bromochloromethane	6.47	49	7778	8.075	ug/l #	1
29) Tetrahydrofuran	6.49	42	48113	280.069	ug/l #	30
30) Chloroform	6.66	83	5032221	1470.738	ug/l #	26
31) Cyclohexane	7.05	56	12339778	6809.660	ug/l #	64
36) 1,1-Dichloropropene	7.05	75	15477	3.810	ug/l #	1
37) Ethyl Acetate	6.36	43	95208	60.324	ug/l #	1
38) Carbon Tetrachloride	7.05	117	20740	3.435	ug/l #	12
39) Methylcyclohexane	8.97	83	16396619	4893.199	ug/l #	78
40) Benzene	7.49	78	2318992	291.001	ug/l	98
41) Methacrylonitrile	6.51	41	1218035	614.486	ug/l #	64
42) 1,2-Dichloroethane	7.68	62	58988	13.979	ug/l #	1
43) Isopropyl Acetate	9.36	43	1763201	842.123	ug/l #	44
45) 1,2-Dichloropropane	8.95	63	369680	190.358	ug/l #	1
46) Dibromomethane	9.01	93	93063	52.865	ug/l #	1
47) Bromodichloromethane	9.47	83	4856969	1084.568	ug/l #	29
48) Methyl methacrylate	9.24	41	4534624	3218.344	ug/l	92
49) 1,4-Dioxane	9.05	88	252	19.940	ug/l #	1
51) 4-Methyl-2-Pentanone	10.29	43	29256917	21151.907	ug/l #	42
52) Toluene	10.58	92	882662	161.794	ug/l	99
53) t-1,3-Dichloropropene	10.87	75	19948	5.350	ug/l #	1
54) cis-1,3-Dichloropropene	10.08	75	8260	2.123	ug/l #	1

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

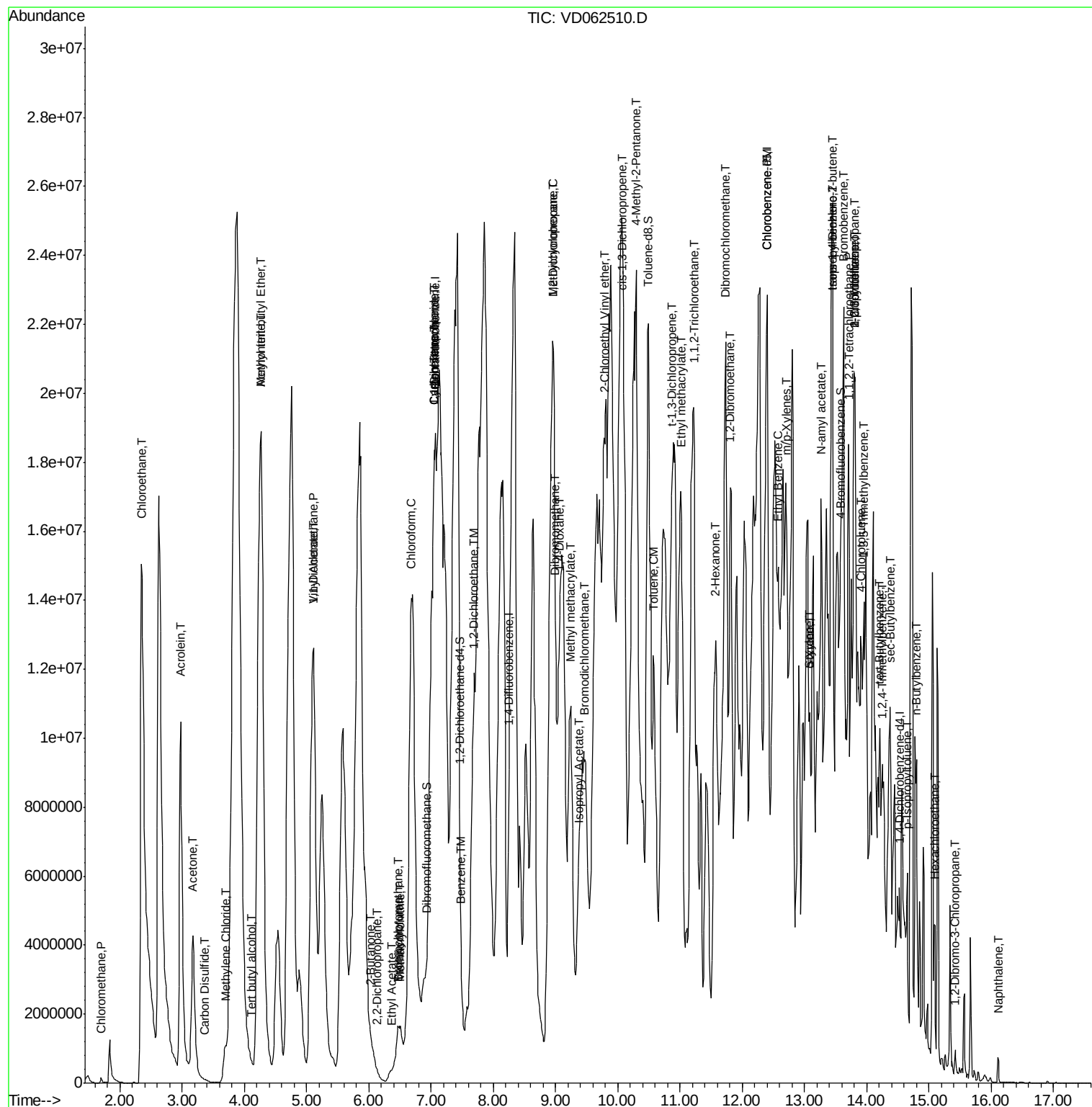
55) 1,1,2-Trichloroethane	11.21	97	4202516	2272.914	ug/l #	22
56) Ethyl methacrylate	11.00	69	11847719	5994.032	ug/l #	74
58) 2-Chloroethyl Vinyl ether	9.78	63	397413	391.556	ug/l #	46
59) 2-Hexanone	11.57	43	6541148	6506.870	ug/l #	32
60) Dibromochloromethane	11.73	129	21506	6.056	ug/l #	11
61) 1,2-Dibromoethane	11.81	107	20286	8.903	ug/l #	1
65) Chlorobenzene	12.41	112	58588	21.300	ug/l #	56
67) Ethyl Benzene	12.57	91	8146987	1719.593	ug/l	97
68) m/p-Xylenes	12.72	106	1601800	941.868	ug/l	85
69) o-Xylene	13.08	106	351673	219.163	ug/l	80
70) Styrene	13.08	104	20715	7.589	ug/l #	1
73) Isopropylbenzene	13.44	105	18759890	3671.104	ug/l	86
74) N-amyl acetate	13.27	43	2042788	1618.537	ug/l #	51
75) 1,1,2,2-Tetrachloroethane	13.72	83	272207	295.264	ug/l #	69
76) 1,2,3-Trichloropropane	13.81	75	161182	168.793	ug/l #	1
77) Bromobenzene	13.63	156	2448	1.689	ug/l #	1
78) n-propylbenzene	13.81	91	18341661	3098.643	ug/l #	75
79) 2-Chlorotoluene	13.81	91	18341661	5106.018	ug/l #	38
80) 1,3,5-Trimethylbenzene	13.96	105	1389683	314.080	ug/l	99
81) trans-1,4-Dichloro-2-buten	13.44	75	293320	1089.152	ug/l #	1
82) 4-Chlorotoluene	13.91	91	611761	147.878	ug/l #	38
83) tert-Butylbenzene	14.20	119	877707	178.833	ug/l	89
84) 1,2,4-Trimethylbenzene	14.25	105	1645401	362.919	ug/l	99
85) sec-Butylbenzene	14.38	105	3702538	723.492	ug/l	96
86) p-Isopropyltoluene	14.65	119	733560	158.173	ug/l	92
89) n-Butylbenzene	14.80	91	3678753	821.926	ug/l	96
90) Hexachloroethane	15.10	117	2479092	1934.212	ug/l #	20
92) 1,2-Dibromo-3-Chloropropan	15.42	75	4579	26.167	ug/l #	1
95) Naphthalene	16.11	128	469875	200.628	ug/l	98

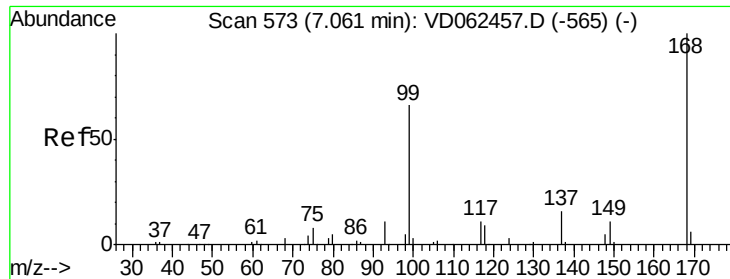
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.00 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

Instrument :

MSVOA_D

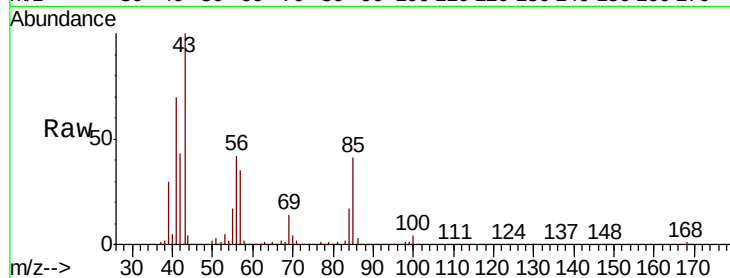
ClientSampled :

Tot Ion:168 Resp: 179291

Ion Ratio Lower Upper

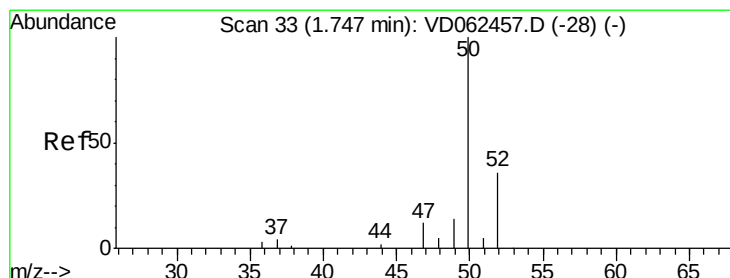
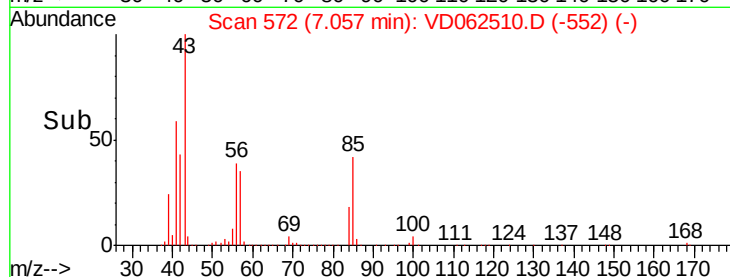
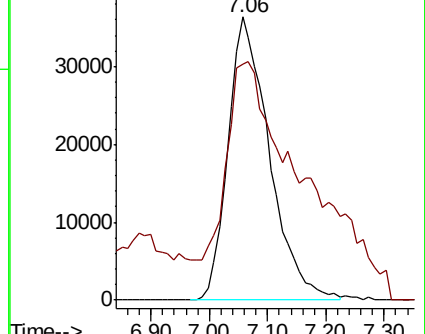
168 100

99 83.3 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: 1.948 ug/l

RT: 1.69 min Scan# 27

Delta R.T. -0.05 min

Lab File: VD062510.D

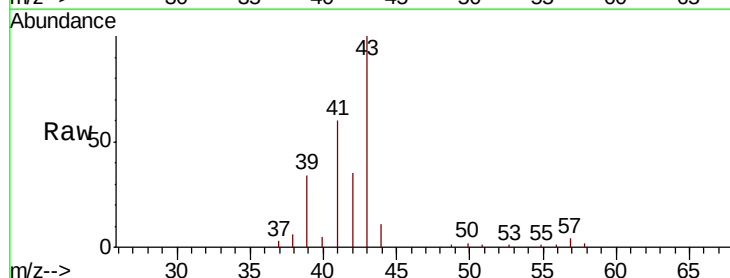
Acq: 22 May 2019 18:35

Tgt Ion: 50 Resp: 2420

Ion Ratio Lower Upper

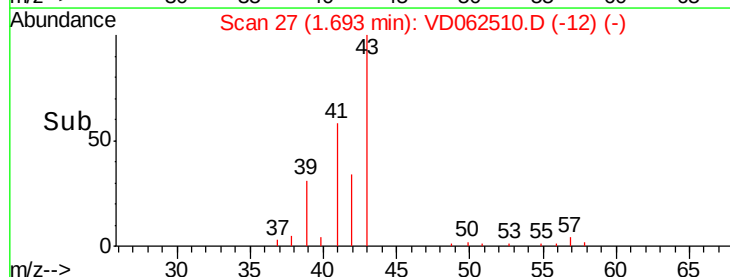
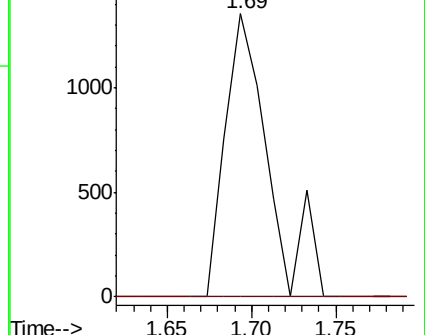
50 100

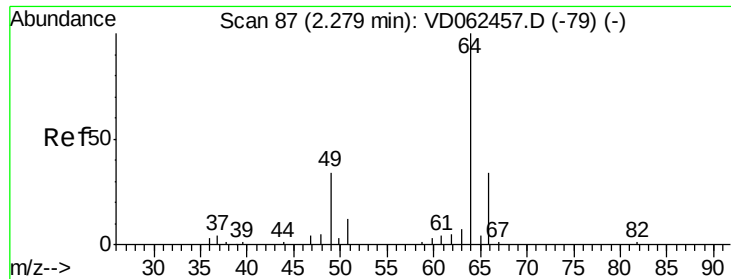
52 0.0 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#6

Chloroethane

Concen: 5.885 ug/l

RT: 2.34 min Scan# 93

Delta R.T. 0.06 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

Instrument :

MSVOA_D

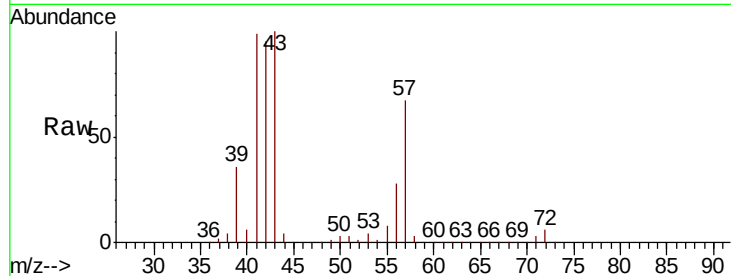
ClientSampleId :

Tot Ion: 64 Resp: 3721

Ion Ratio Lower Upper

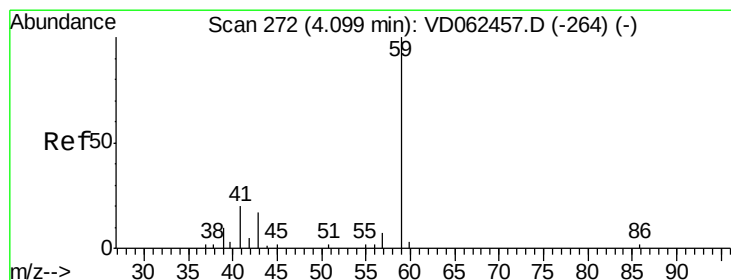
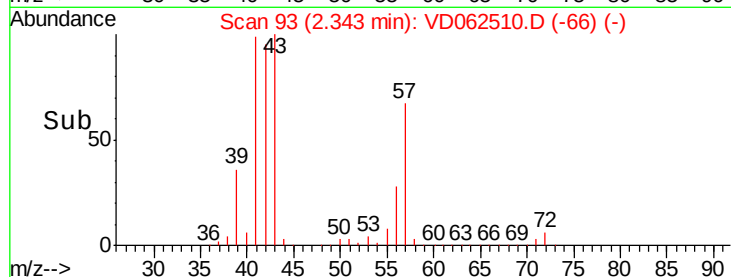
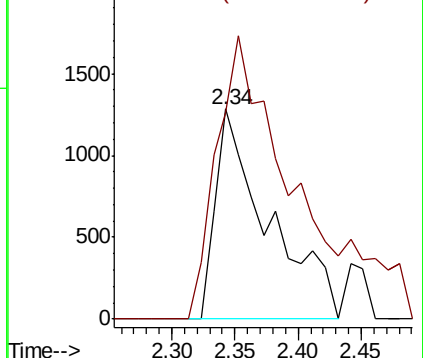
64 100

66 98.1 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: 2.574 ug/l

RT: 4.12 min Scan# 274

Delta R.T. 0.03 min

Lab File: VD062510.D

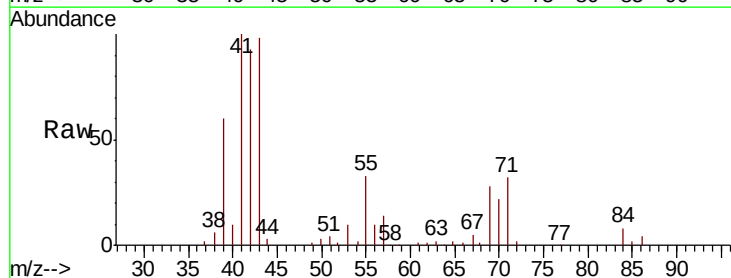
Acq: 22 May 2019 18:35

Tgt Ion: 59 Resp: 228

Ion Ratio Lower Upper

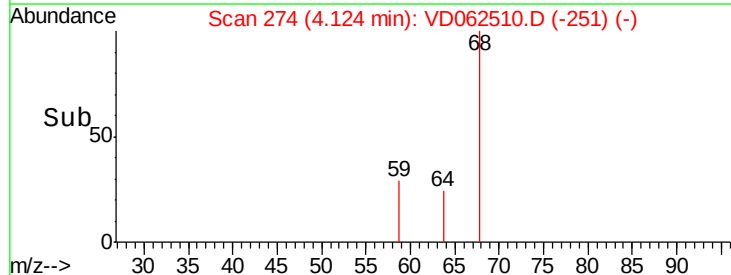
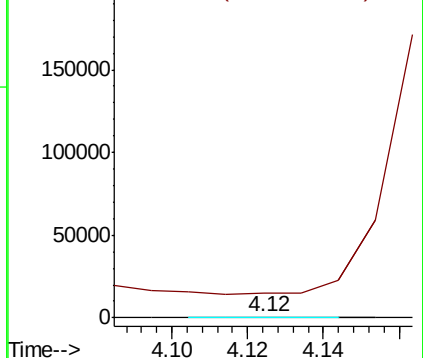
59 100

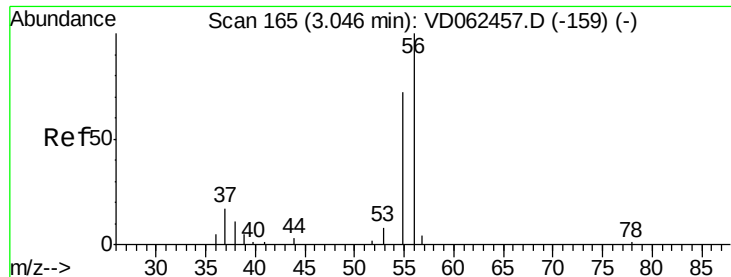
57 3806.5 6.9 10.3#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 6354.247 ug/l

RT: 2.97 min Scan# 157

Delta R.T. -0.07 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

Instrument :

MSVOA_D

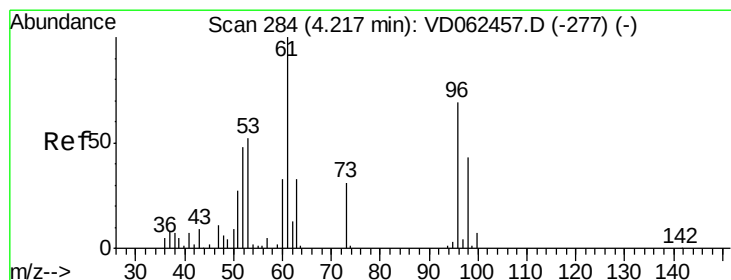
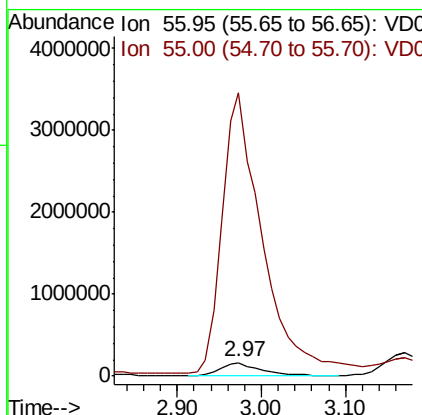
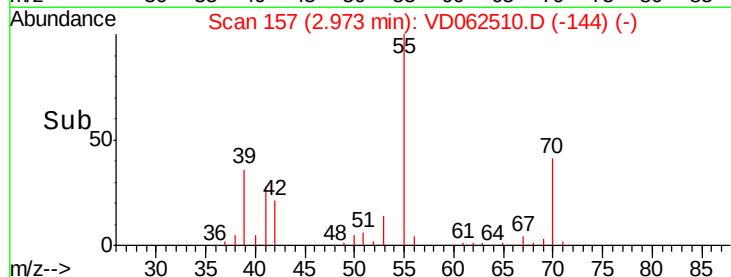
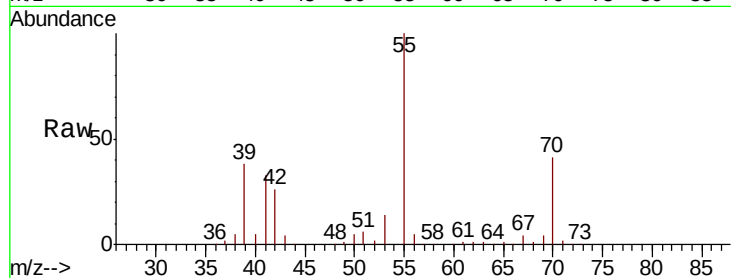
ClientSampleId :

Tot Ion: 56 Resp: 467462

Ion Ratio Lower Upper

56 100

55 2106.6 51.4 77.2#



#15

Acrylonitrile

Concen: 6360.924 ug/l

RT: 4.26 min Scan# 288

Delta R.T. 0.04 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

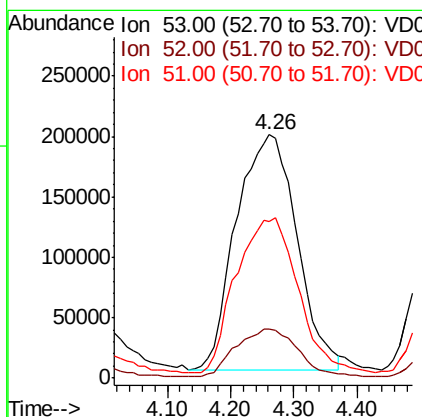
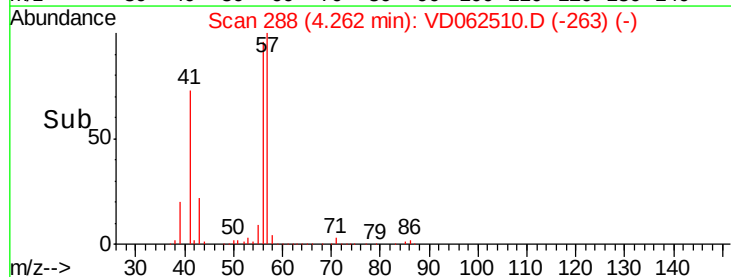
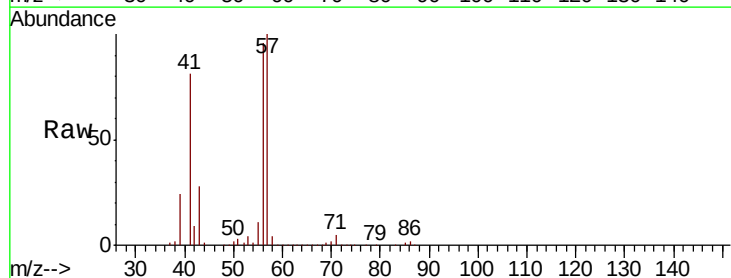
Tgt Ion: 53 Resp: 1291215

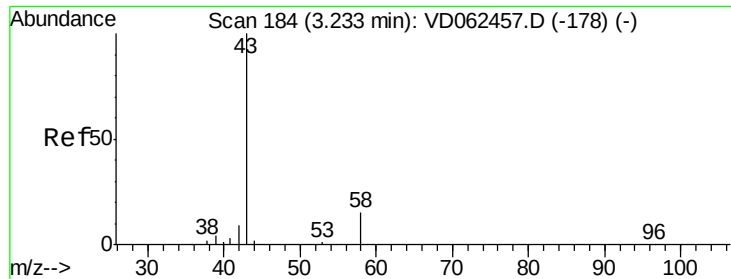
Ion Ratio Lower Upper

53 100

52 20.2 65.0 97.4#

51 64.4 32.6 48.8#





#16

Acetone

Concen: 8844.389 ug/l

RT: 3.17 min Scan# 177

Delta R.T. -0.06 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

Instrument :

MSVOA_D

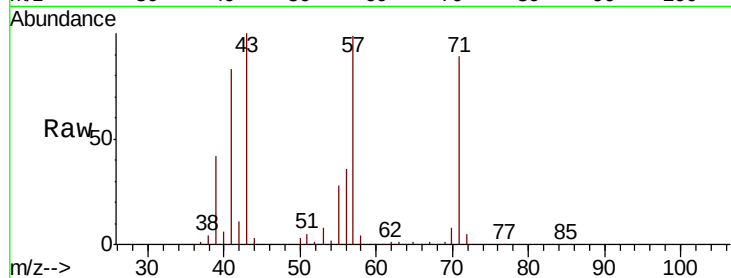
ClientSampleId :

Tot Ion: 43 Resp: 3041728

Ion Ratio Lower Upper

43 100

58 4.4 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.17

800000

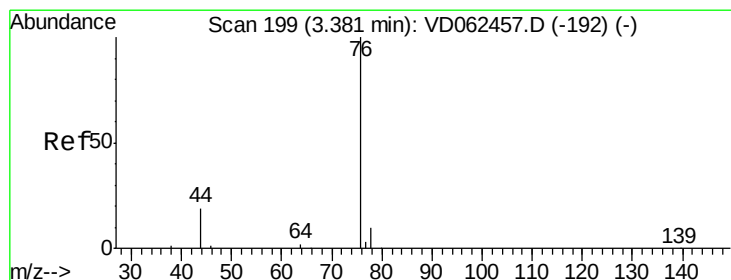
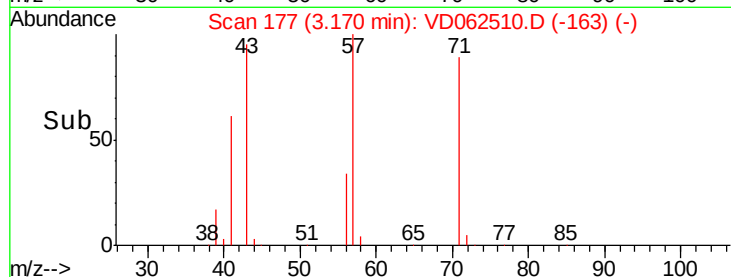
600000

400000

200000

0

Time-->



#17

Carbon Disulfide

Concen: 8.333 ug/l

RT: 3.37 min Scan# 197

Delta R.T. -0.01 min

Lab File: VD062510.D

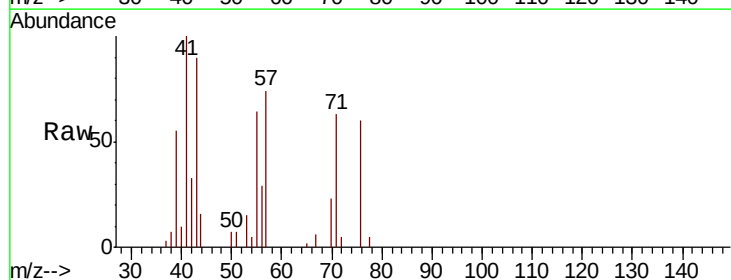
Acq: 22 May 2019 18:35

Tgt Ion: 76 Resp: 33510

Ion Ratio Lower Upper

76 100

78 8.0 7.2 10.8



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

3.37

10000

8000

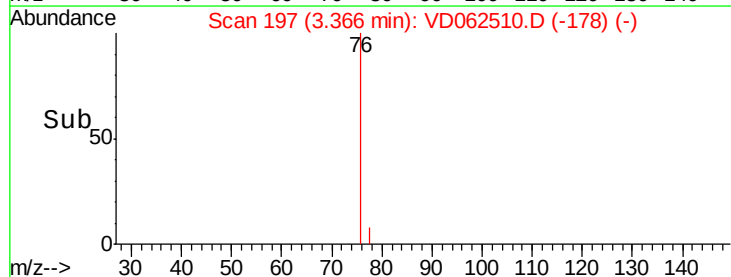
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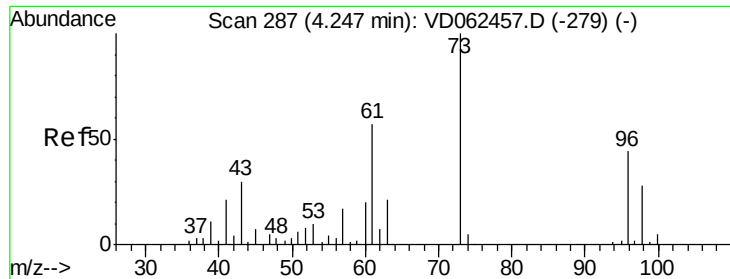
4000

2000

0

Time-->



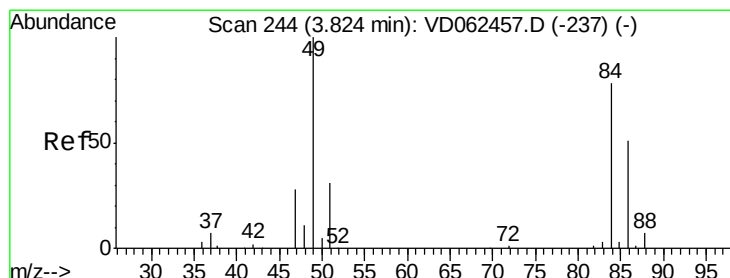
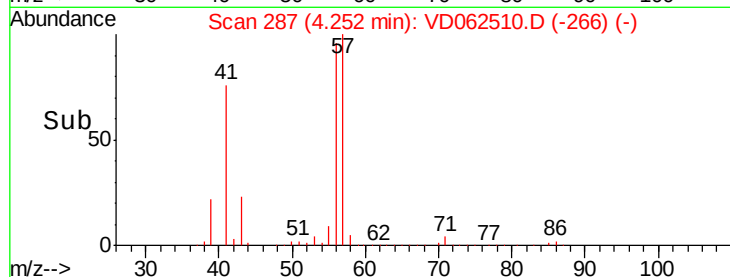
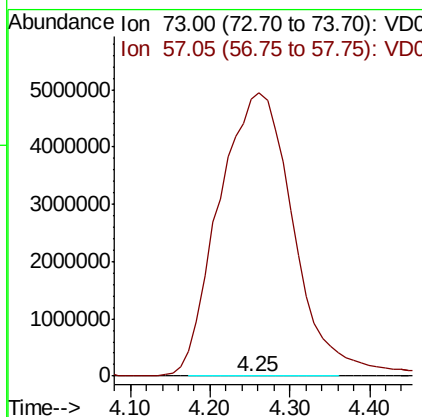
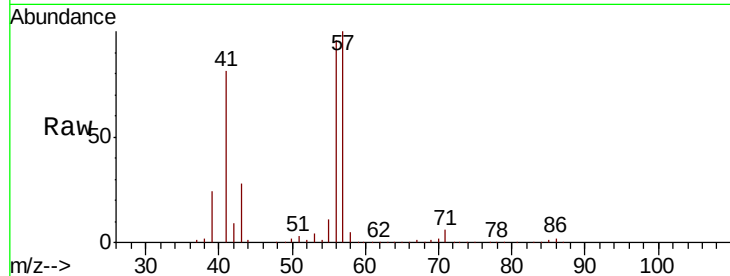


#19

Methyl tert-butyl Ether
 Concen: 3.389 ug/l
 RT: 4.25 min Scan# 287
 Delta R.T. 0.01 min
 Lab File: VD062510.D
 Acq: 22 May 2019 18:35

Instrument :
 MSVOA_D
 ClientSampled :

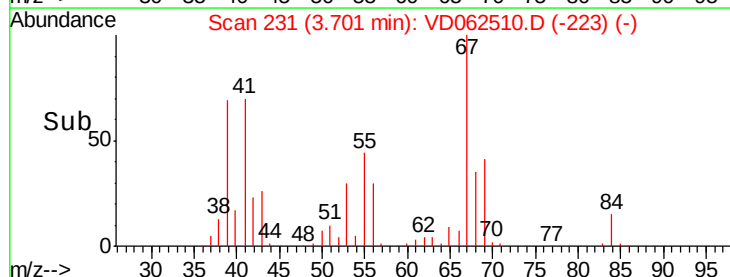
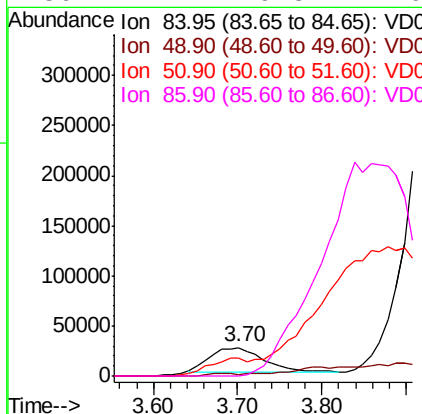
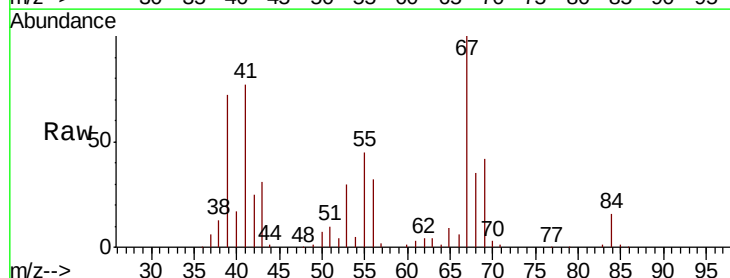
Tot Ion: 73 Resp: 10392
 Ion Ratio Lower Upper
 73 100
 57 238310.9 16.3 24.5#

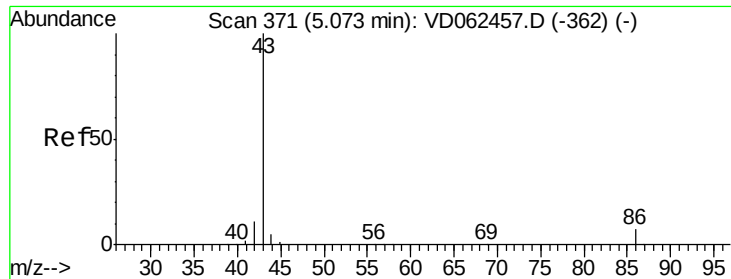


#20

Methylene Chloride
 Concen: 80.057 ug/l
 RT: 3.70 min Scan# 231
 Delta R.T. -0.12 min
 Lab File: VD062510.D
 Acq: 22 May 2019 18:35

Tgt Ion: 84 Resp: 111957
 Ion Ratio Lower Upper
 84 100
 49 6.6 94.0 141.0#
 51 62.6 29.0 43.4#
 86 1.1 49.8 74.6#





#23

Vinyl Acetate

Concen: 262.601 ug/l

RT: 5.10 min Scan# 373

Delta R.T. 0.03 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

Instrument :

MSVOA_D

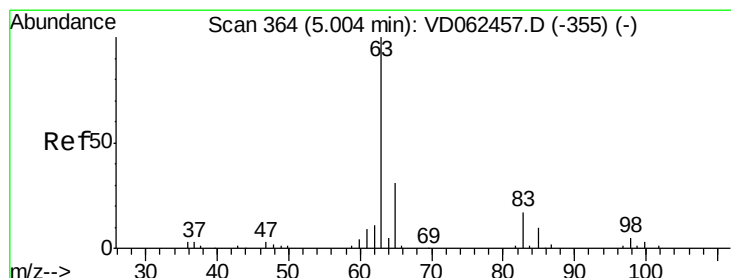
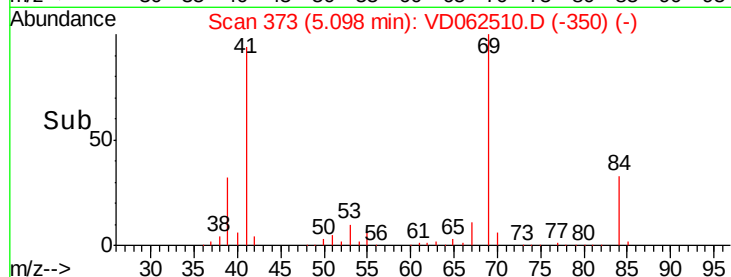
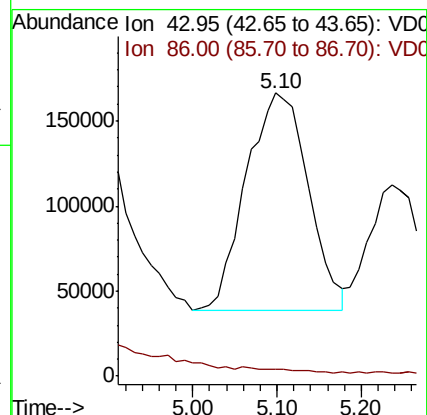
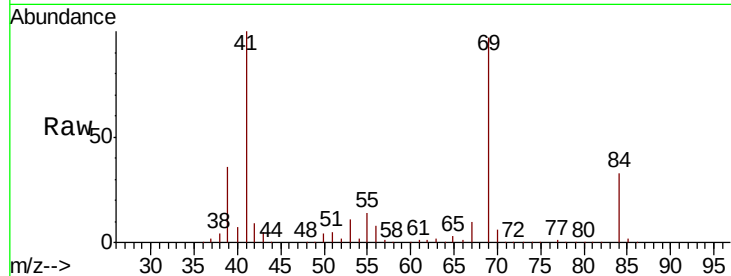
ClientSampled :

Tot Ion: 43 Resp: 661236

Ion Ratio Lower Upper

43 100

86 2.4 6.4 9.6#



#24

1,1-Dichloroethane

Concen: 125.818 ug/l

RT: 5.11 min Scan# 374

Delta R.T. 0.10 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

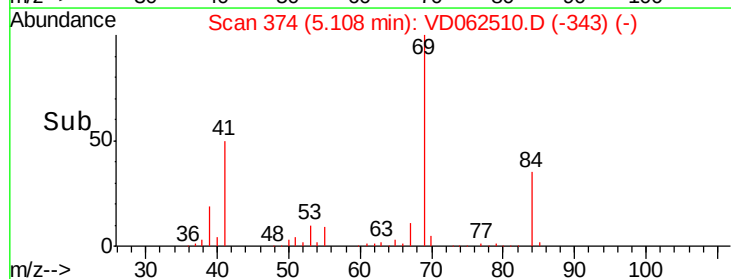
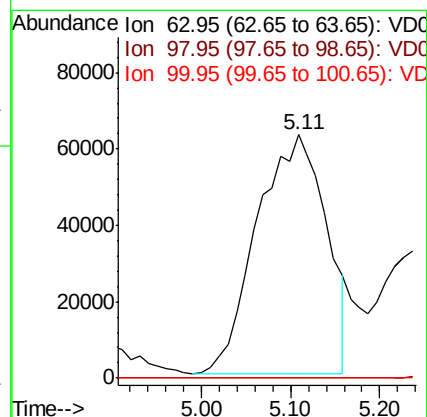
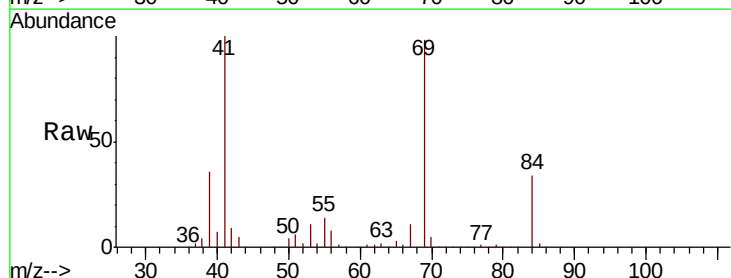
Tgt Ion: 63 Resp: 337675

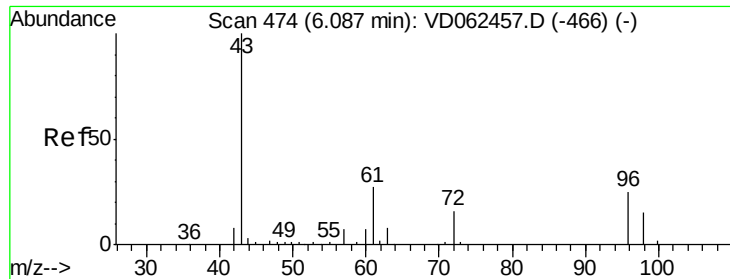
Ion Ratio Lower Upper

63 100

98 0.0 2.8 8.4#

100 0.0 1.8 5.5#





#25

2-Butanone

Concen: 1725.533 ug/l

RT: 6.03 min Scan# 468

Delta R.T. -0.05 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

Instrument :

MSVOA_D

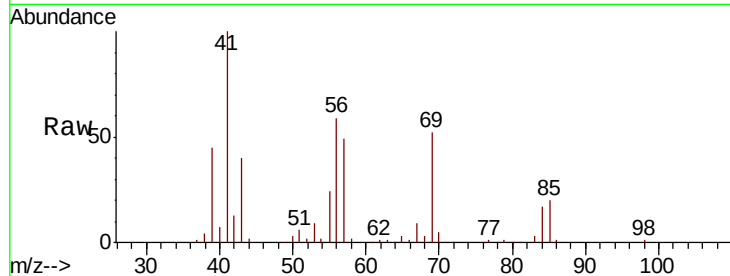
ClientSampled :

Tot Ion: 43 Resp: 620680

Ion Ratio Lower Upper

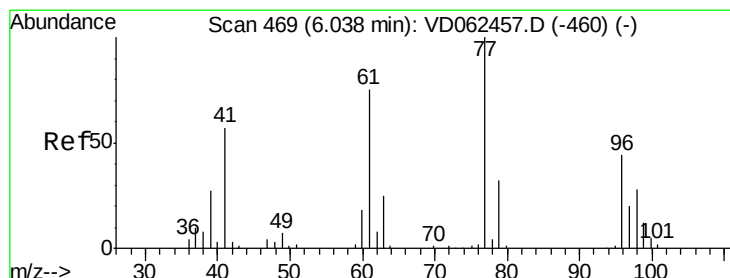
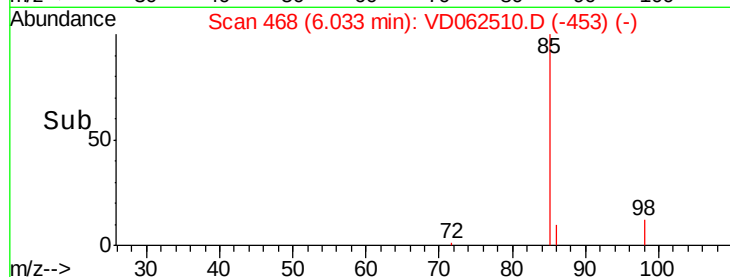
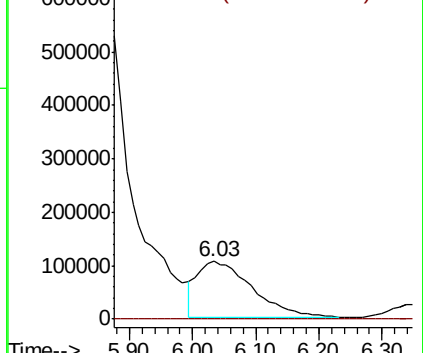
43 100

72 0.5 16.2 24.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 1.181 ug/l

RT: 6.14 min Scan# 479

Delta R.T. 0.10 min

Lab File: VD062510.D

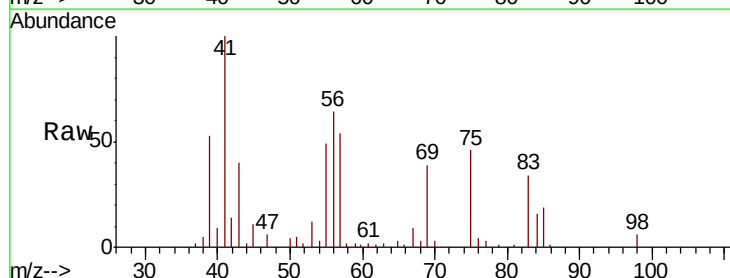
Acq: 22 May 2019 18:35

Tgt Ion: 77 Resp: 3416

Ion Ratio Lower Upper

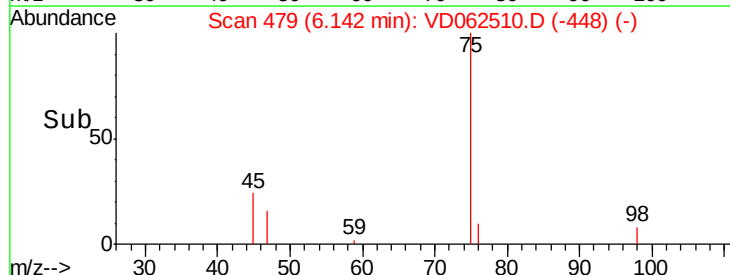
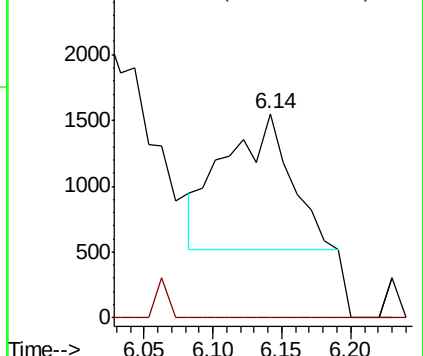
77 100

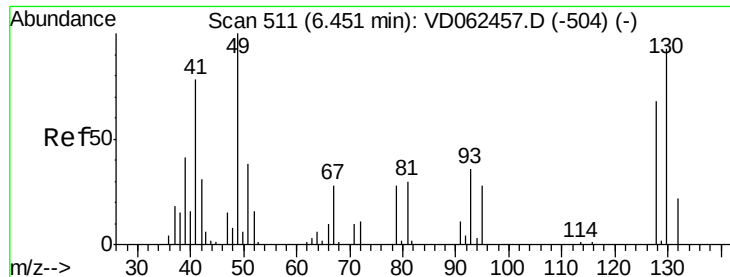
97 0.0 11.9 35.9#



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#28

Bromochloromethane

Concen: 8.075 ug/l

RT: 6.47 min Scan# 512

Delta R.T. 0.02 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

Instrument :

MSVOA_D

ClientSampleId :

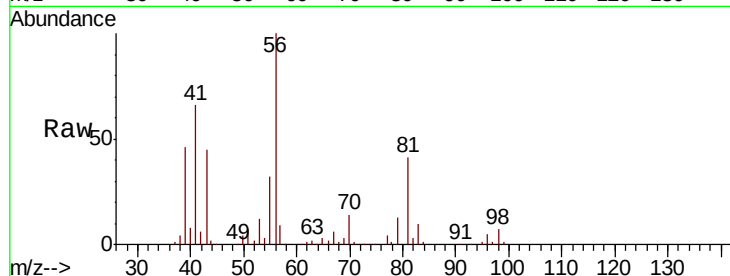
Tot Ion: 49 Resp: 7778

Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.6

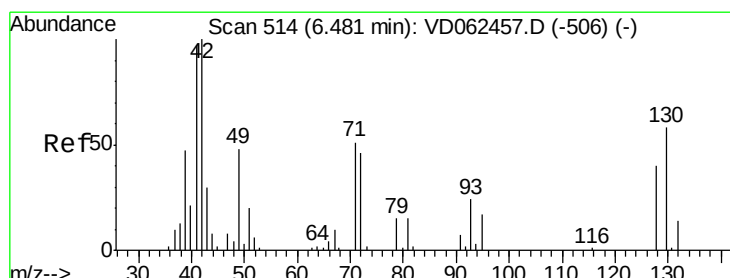
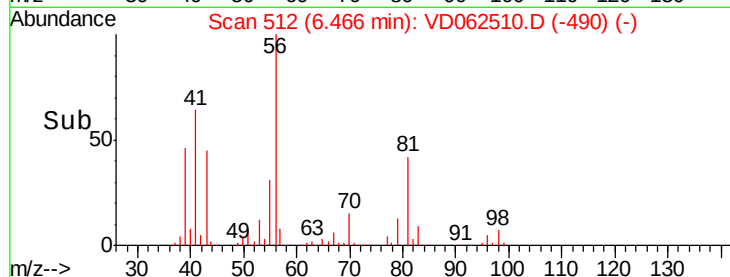
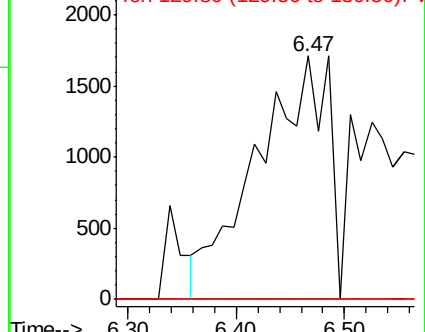
130 0.0 86.7 130.1#



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: 280.069 ug/l

RT: 6.49 min Scan# 514

Delta R.T. 0.01 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

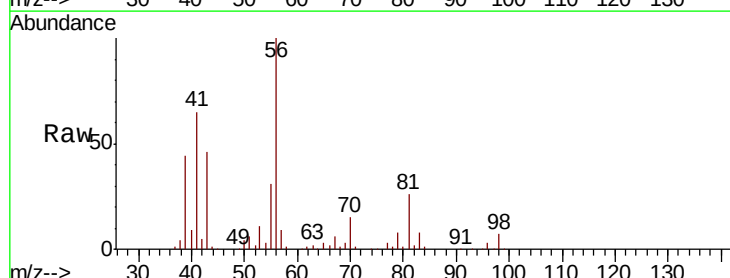
Tgt Ion: 42 Resp: 48113

Ion Ratio Lower Upper

42 100

72 0.0 37.8 56.6#

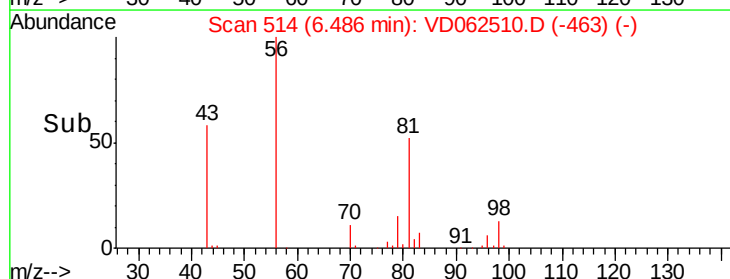
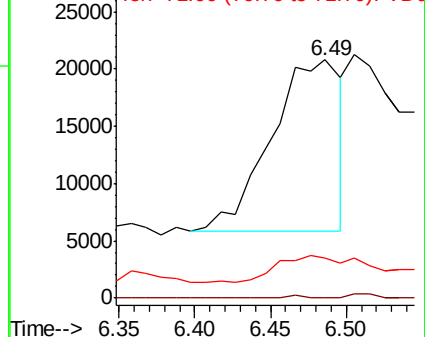
71 0.0 36.7 55.1#

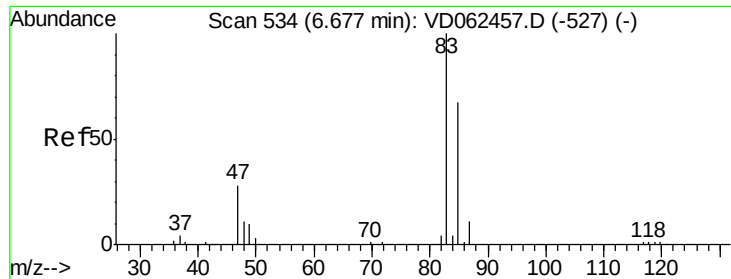


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

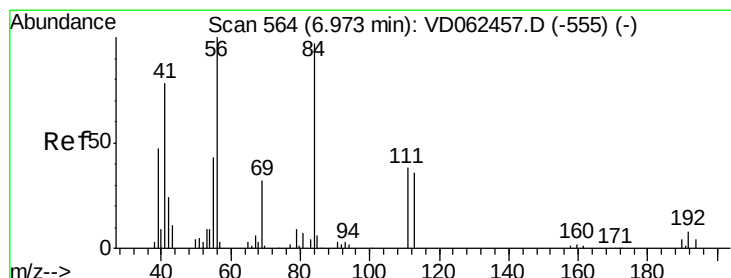
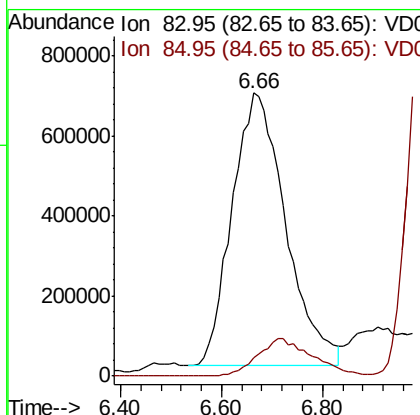
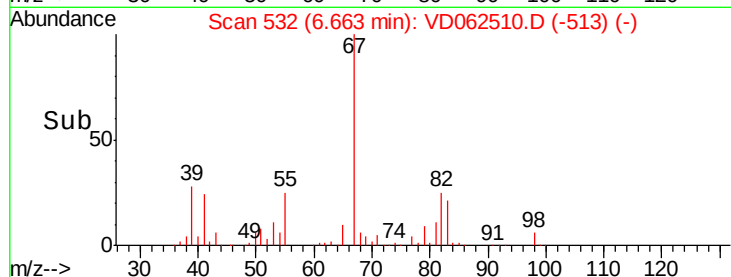
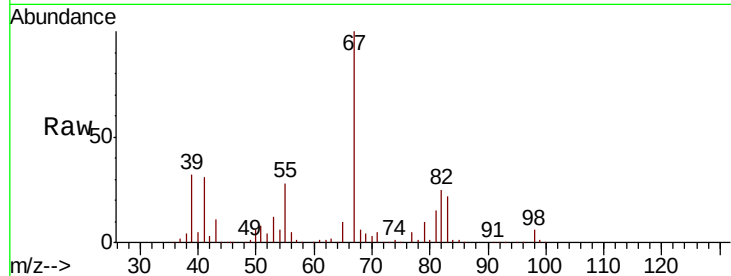




#30
Chloroform
Concen: 1470.738 ug/l
RT: 6.66 min Scan# 532
Delta R.T. -0.01 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

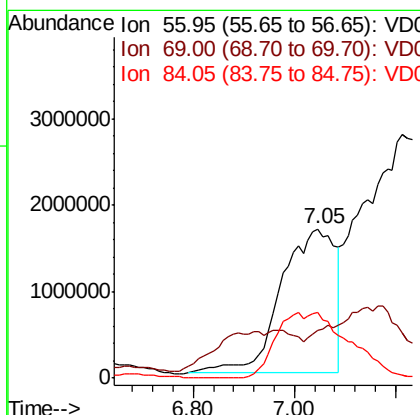
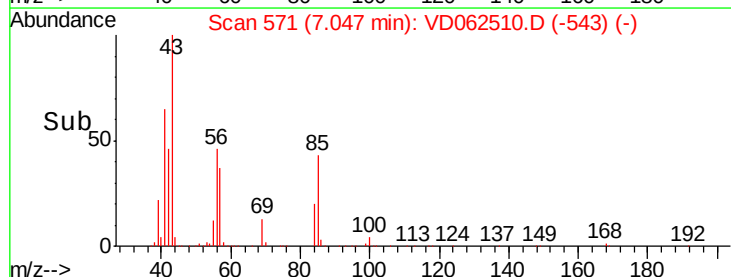
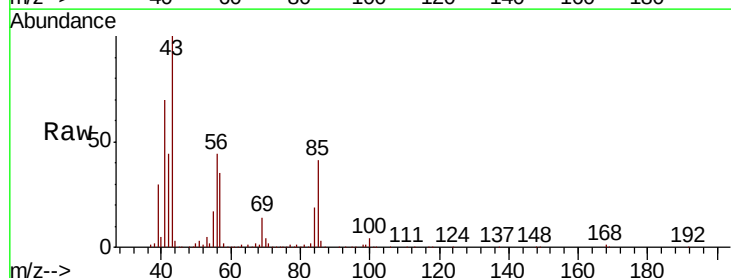
Instrument :
MSVOA_D
ClientSampleId :

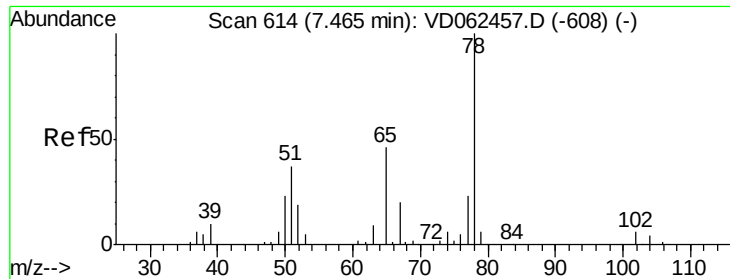
Tot Ion: 83 Resp: 5032221
Ion Ratio Lower Upper
83 100
85 6.5 51.7 77.5#



#31
Cyclohexane
Concen: 6809.660 ug/l
RT: 7.05 min Scan# 571
Delta R.T. 0.07 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

Tgt Ion: 56 Resp: 12339778
Ion Ratio Lower Upper
56 100
69 32.0 25.8 38.6
84 43.8 72.2 108.4#





#33

1,2-Dichloroethane-d4

Concen: 86.628 ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.01 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

Instrument :

MSVOA_D

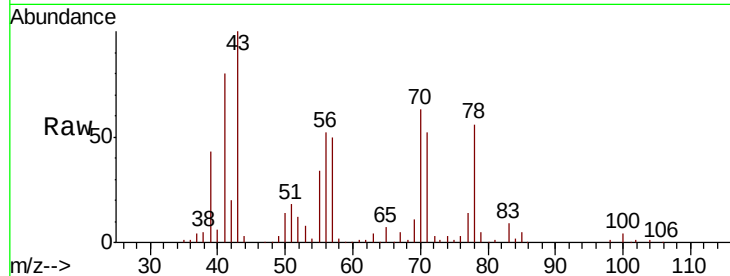
ClientSampled :

Tot Ion: 65 Resp: 166256

Ion Ratio Lower Upper

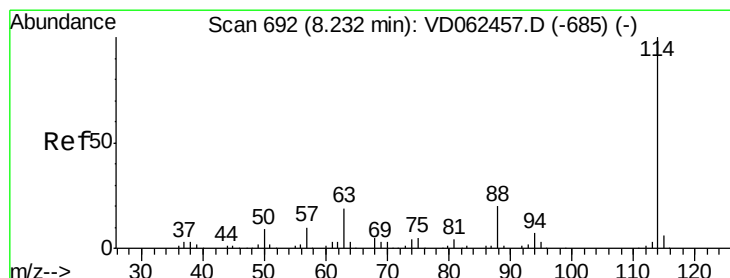
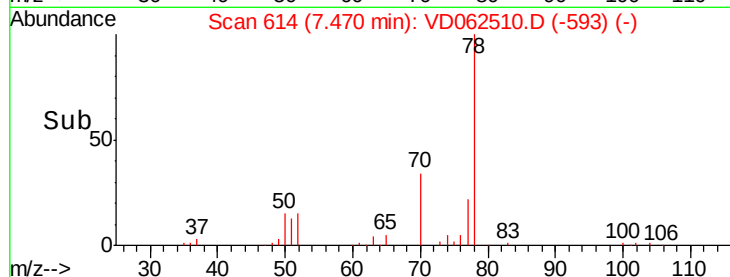
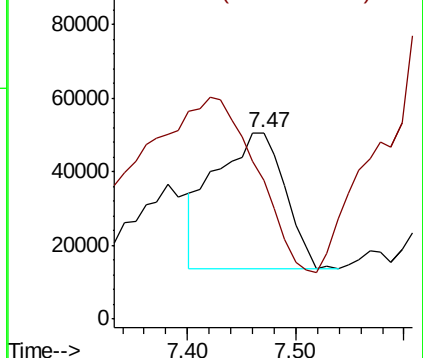
65 100

67 74.6 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.24 min Scan# 692

Delta R.T. 0.01 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

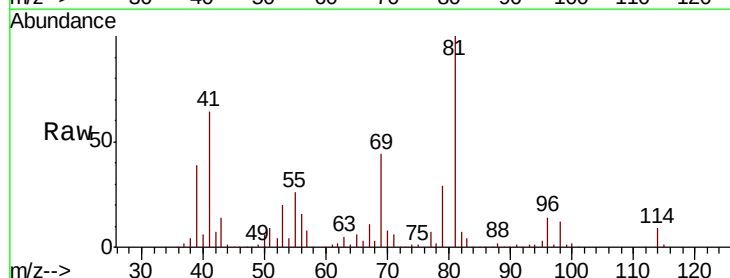
Tgt Ion: 114 Resp: 424936

Ion Ratio Lower Upper

114 100

63 50.6 0.0 32.4#

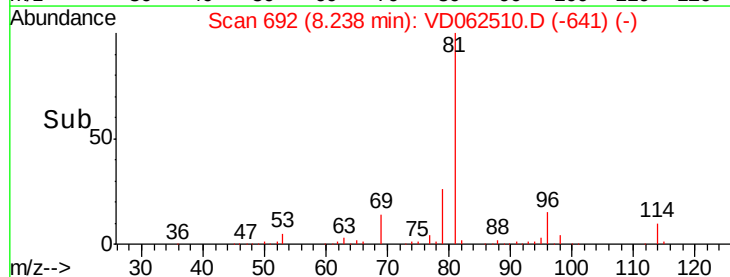
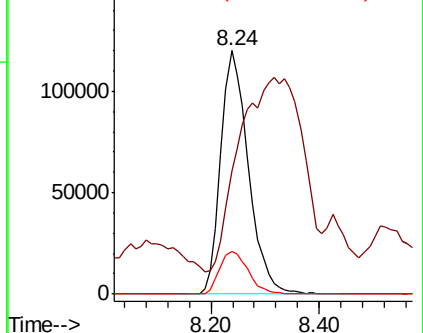
88 17.7 0.0 33.6

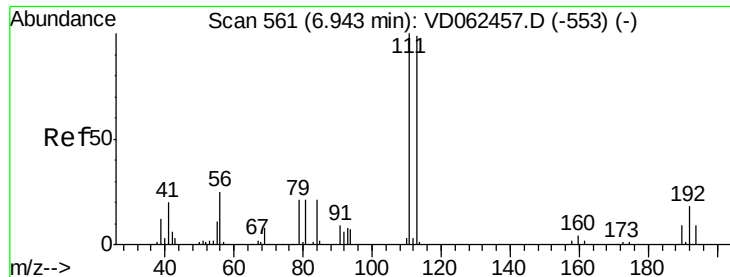


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 43.086 ug/l

RT: 6.92 min Scan# 558

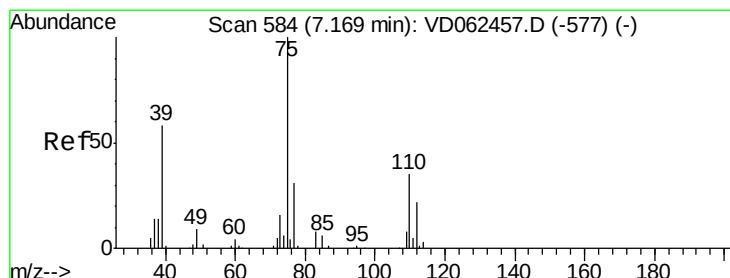
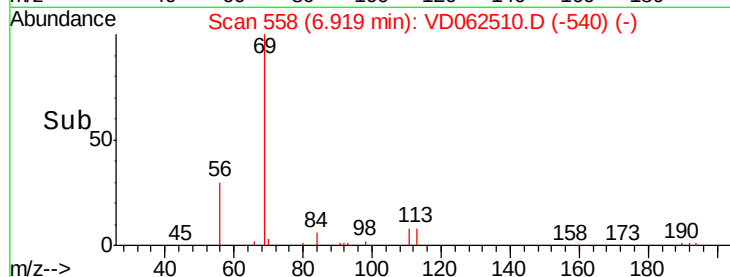
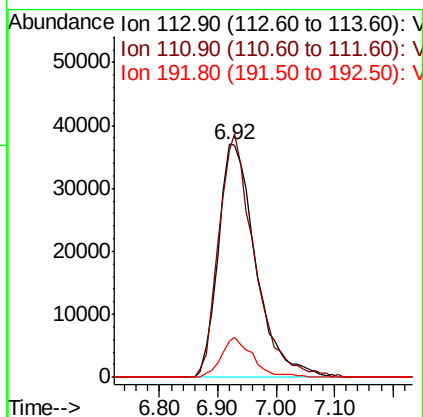
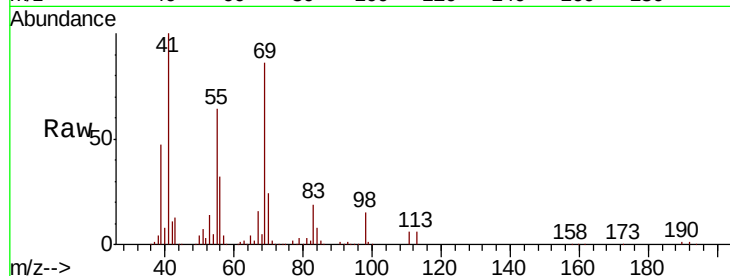
Delta R.T. -0.02 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:	113	Resp:	165168
Ion	Ratio	Lower	Upper
113	100		
111	97.6	78.5	117.7
192	15.5	13.0	19.4



#36

1,1-Dichloropropene

Concen: 3.810 ug/l

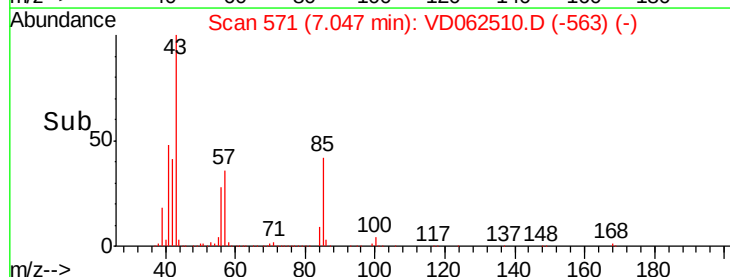
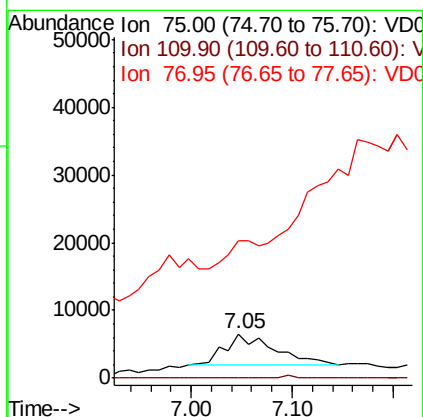
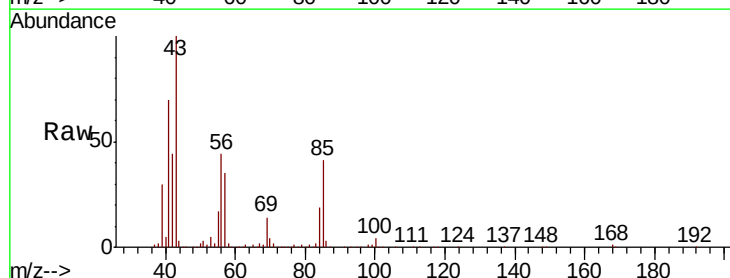
RT: 7.05 min Scan# 571

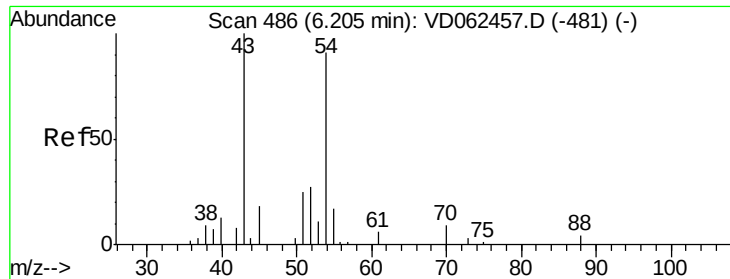
Delta R.T. -0.12 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

Tgt Ion:	75	Resp:	15477
Ion	Ratio	Lower	Upper
75	100		
110	0.0	19.1	57.1#
77	310.2	25.6	38.4#

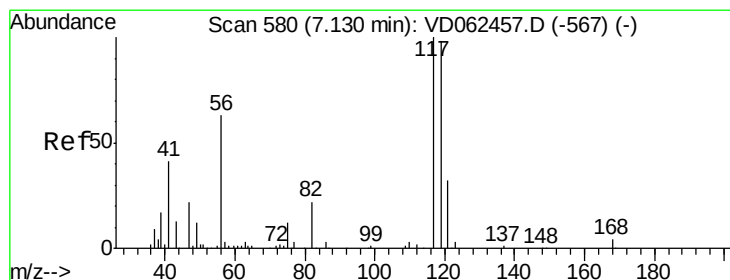
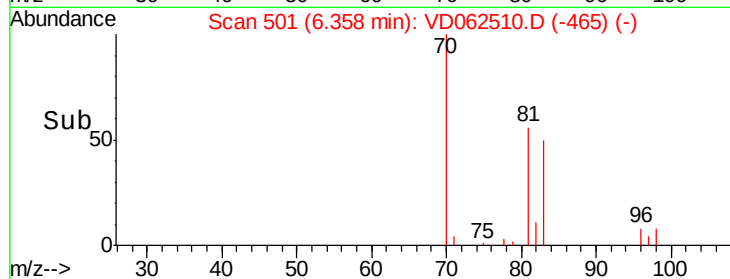
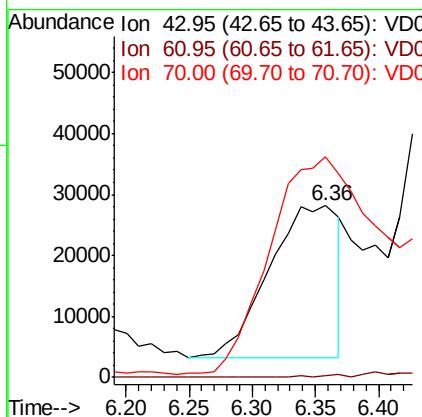
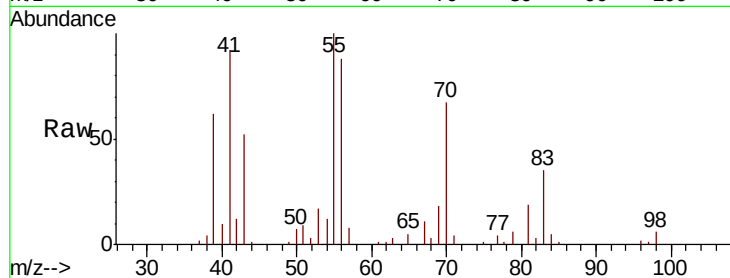




#37
Ethyl Acetate
Concen: 60.324 ug/l
RT: 6.36 min Scan# 501
Delta R.T. 0.15 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

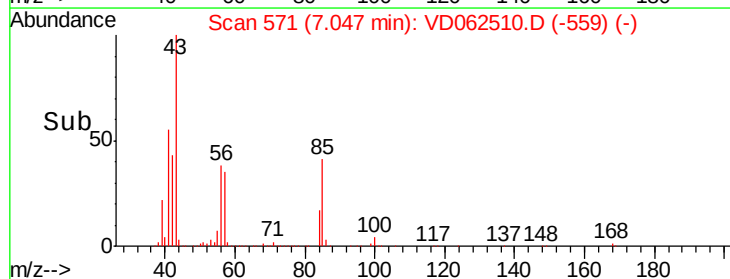
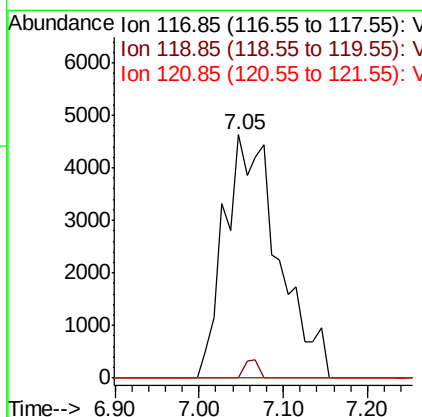
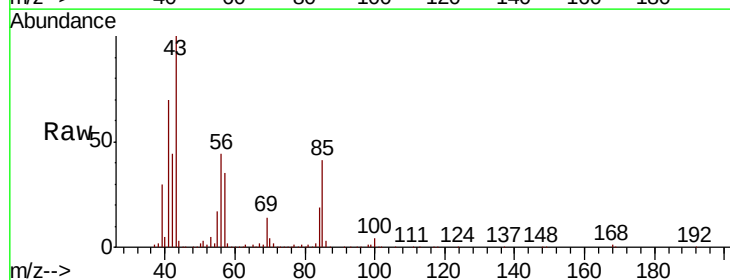
Instrument :
MSVOA_D
ClientSampleID :

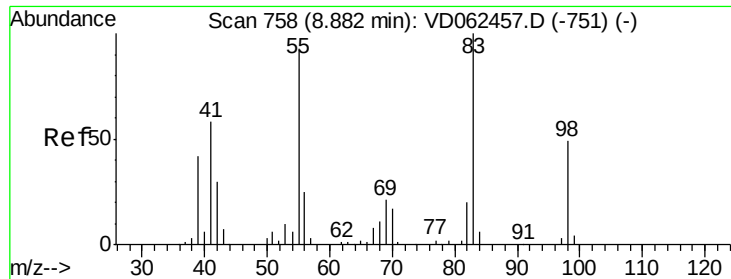
Tot Ion: 43 Resp: 95208
Ion Ratio Lower Upper
43 100
61 1.3 14.7 22.1#
70 128.5 7.8 11.6#



#38
Carbon Tetrachloride
Concen: 3.435 ug/l
RT: 7.05 min Scan# 571
Delta R.T. -0.08 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

Tgt Ion: 117 Resp: 20740
Ion Ratio Lower Upper
117 100
119 0.0 75.8 113.8#
121 0.0 25.9 38.9#

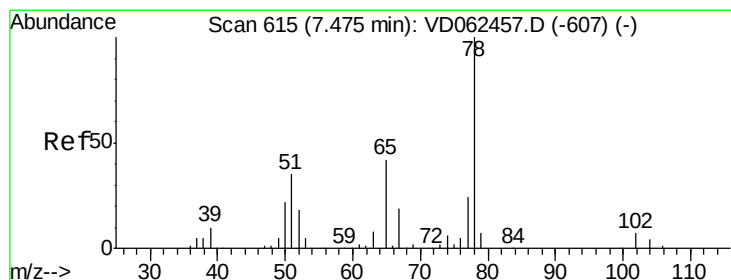
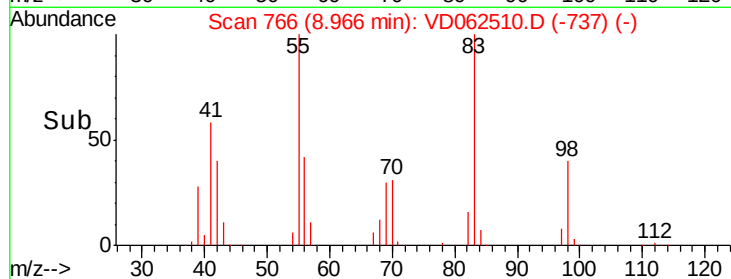
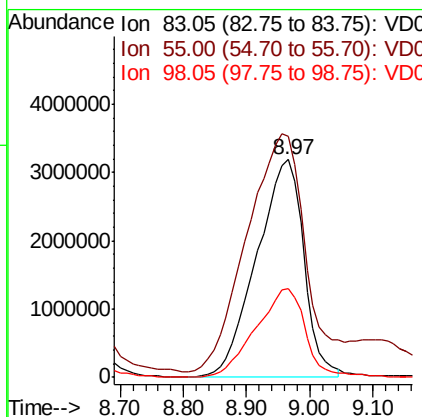
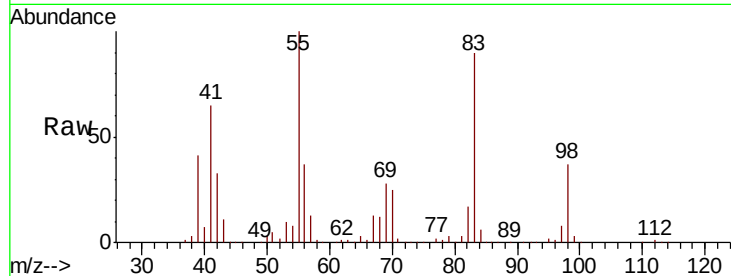




#39
Methylvlcyclohexane
Concen: 4893.199 ug/l
RT: 8.97 min Scan# 766
Delta R.T. 0.08 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

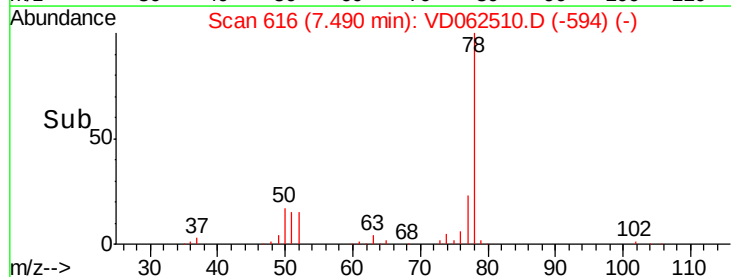
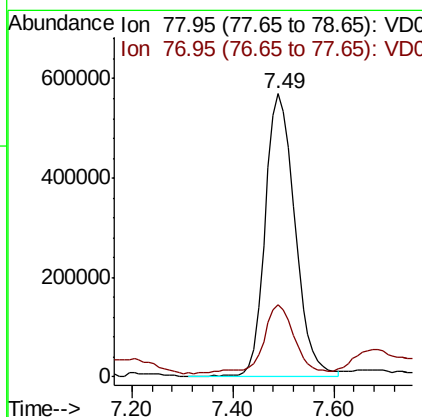
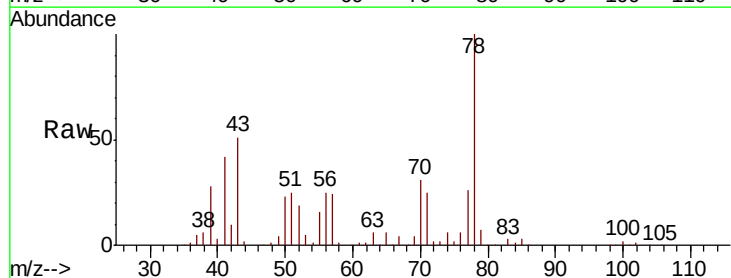
Instrument :
MSVOA_D
ClientSampleId :

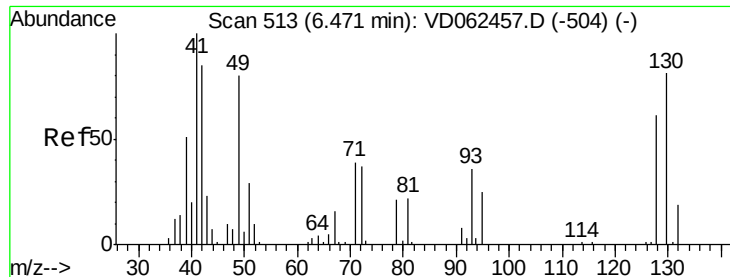
Tot Ion: 83 Resp:16396619
Ion Ratio Lower Upper
83 100
55 110.8 68.2 102.4#
98 40.8 38.2 57.4



#40
Benzene
Concen: 291.001 ug/l
RT: 7.49 min Scan# 616
Delta R.T. 0.02 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

Tgt Ion: 78 Resp: 2318992
Ion Ratio Lower Upper
78 100
77 25.6 19.7 29.5

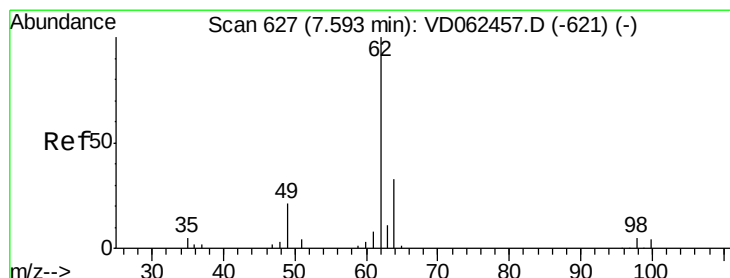
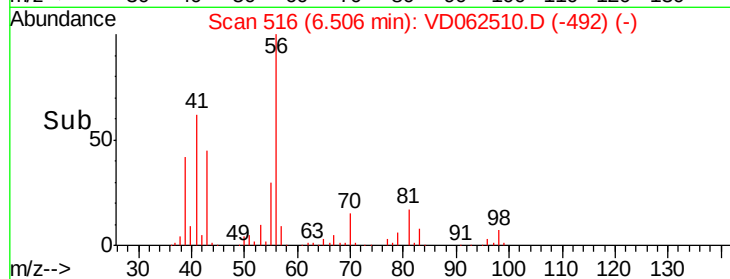
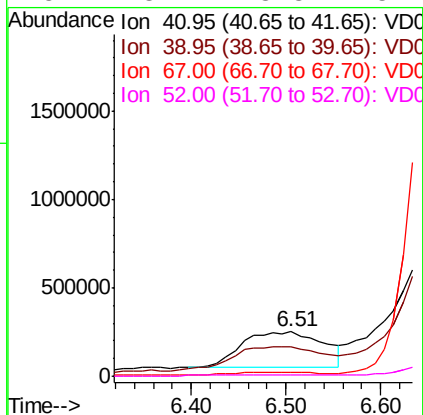
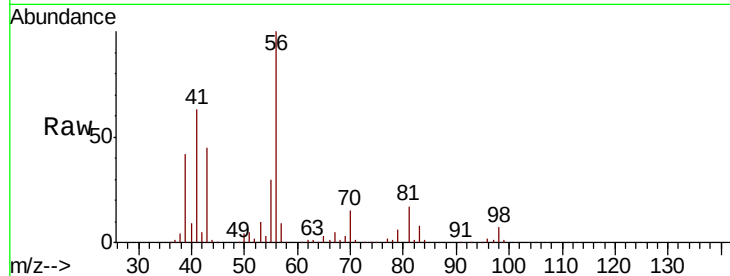




#41
Methacrylonitrile
Concen: 614.486 ug/l
RT: 6.51 min Scan# 516
Delta R.T. 0.03 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

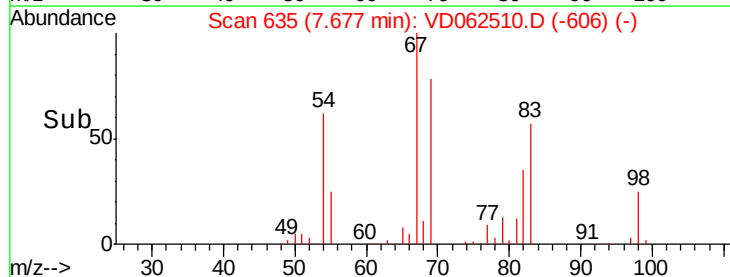
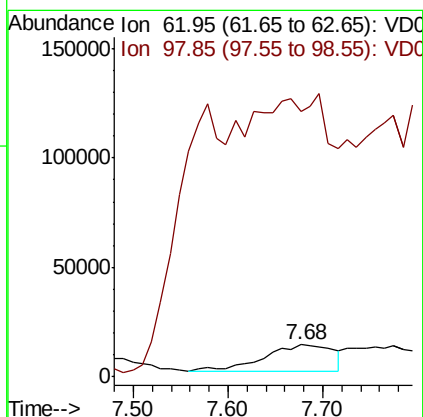
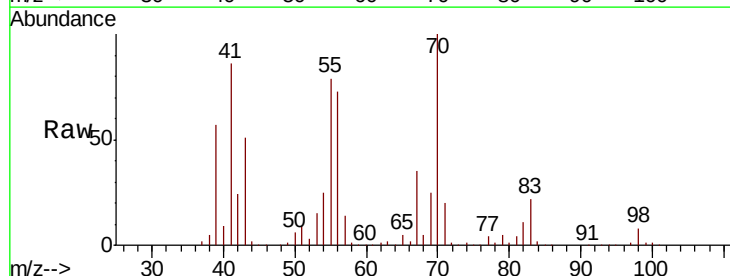
Instrument :
MSVOA_D
ClientSampleId :

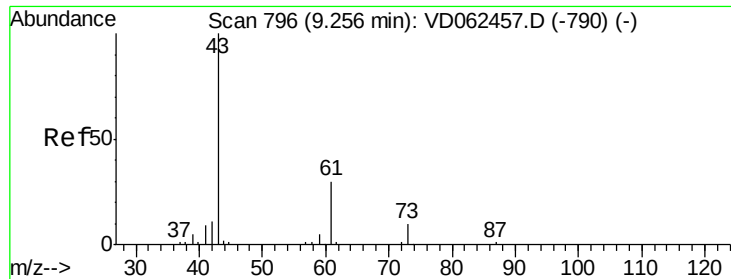
Tot Ion: 41 Resp: 1218035
Ion Ratio Lower Upper
41 100
39 66.8 34.1 51.1#
67 8.3 23.8 35.6#
52 3.4 8.8 13.2#



#42
1,2-Dichloroethane
Concen: 13.979 ug/l
RT: 7.68 min Scan# 635
Delta R.T. 0.08 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

Tgt Ion: 62 Resp: 58988
Ion Ratio Lower Upper
62 100
98 821.0 0.0 17.8#





#43

Isopropyl Acetate

Concen: 842.123 ug/l

RT: 9.36 min Scan# 806

Delta R.T. 0.10 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

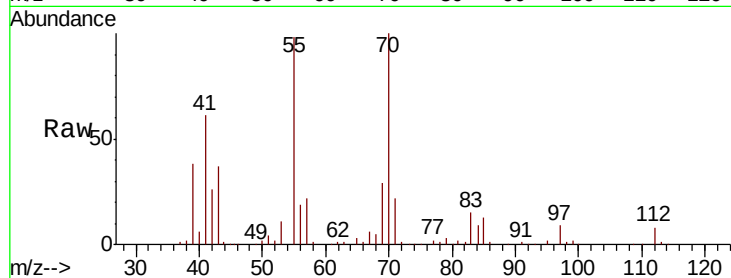
Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 43 Resp: 1763201

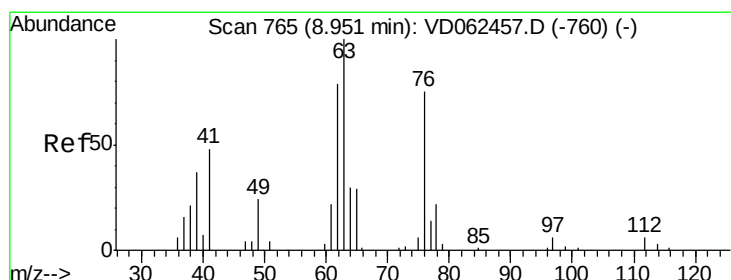
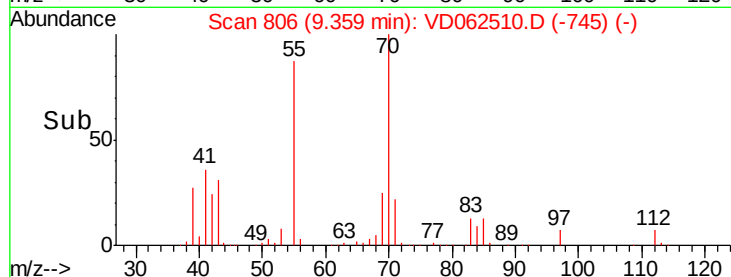
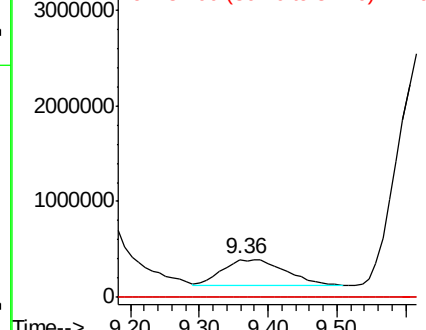
Ion	Ratio	Lower	Upper
43	100		
61	0.3	25.1	37.7#
87	0.0	0.0	0.0



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: 190.358 ug/l

RT: 8.95 min Scan# 764

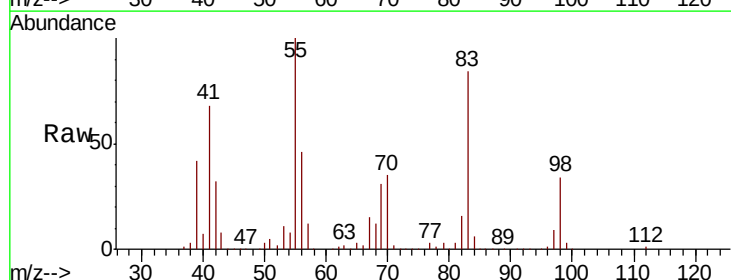
Delta R.T. -0.00 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

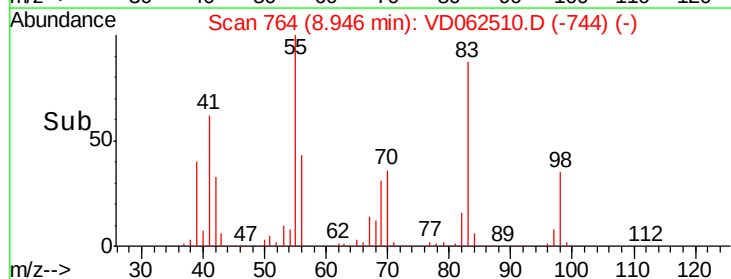
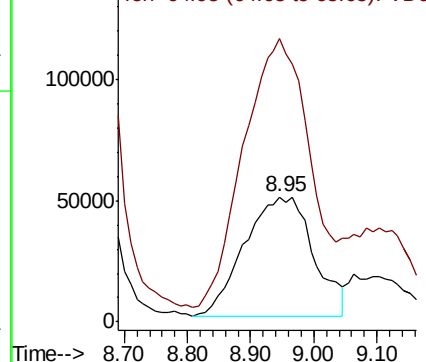
Tgt Ion: 63 Resp: 369680

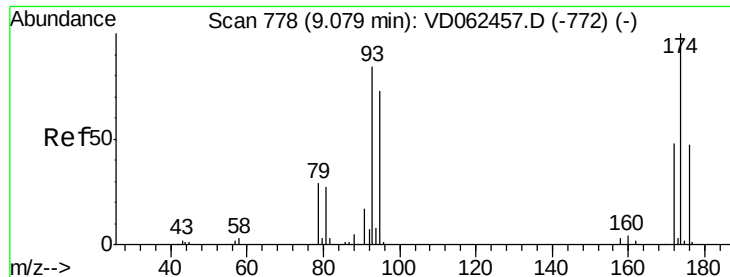
Ion	Ratio	Lower	Upper
63	100		
65	226.0	23.8	35.6#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC





#46

Dibromomethane

Concen: 52.865 ug/l

RT: 9.01 min Scan# 770

Delta R.T. -0.07 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

Instrument :

MSVOA_D

ClientSampled :

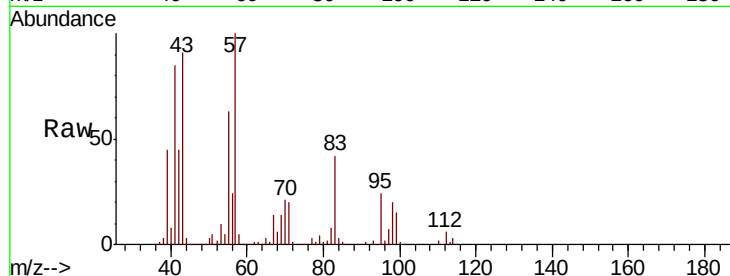
Tot Ion: 93 Resp: 93063

Ion Ratio Lower Upper

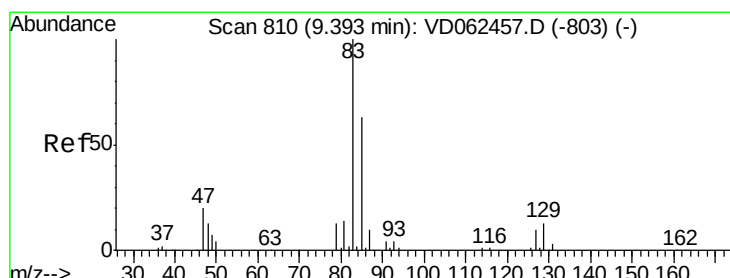
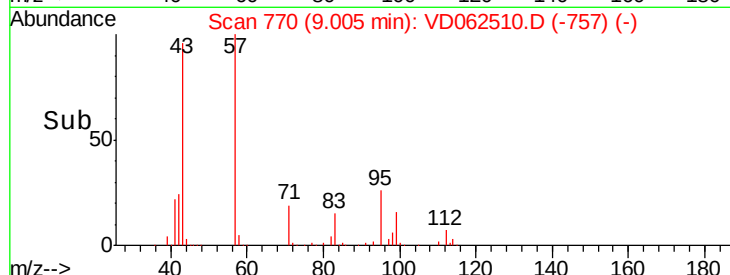
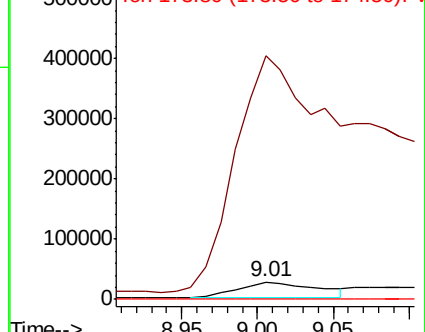
93 100

95 1402.9 64.8 97.2#

174 0.0 79.3 118.9#



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



#47

Bromodichloromethane

Concen: 1084.568 ug/l

RT: 9.47 min Scan# 817

Delta R.T. 0.07 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

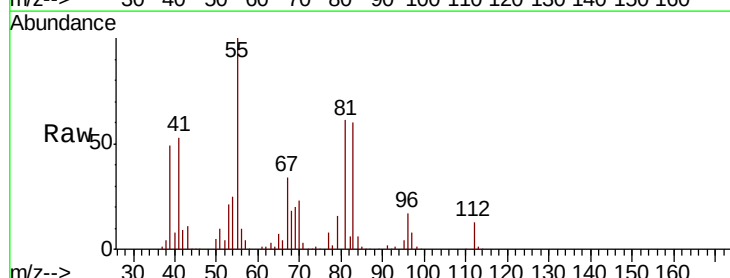
Tgt Ion: 83 Resp: 4856969

Ion Ratio Lower Upper

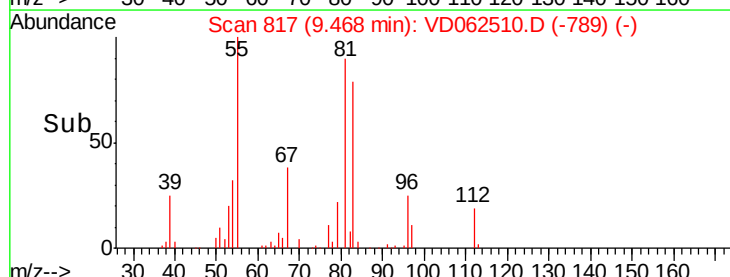
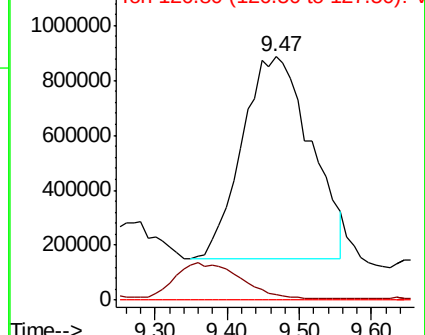
83 100

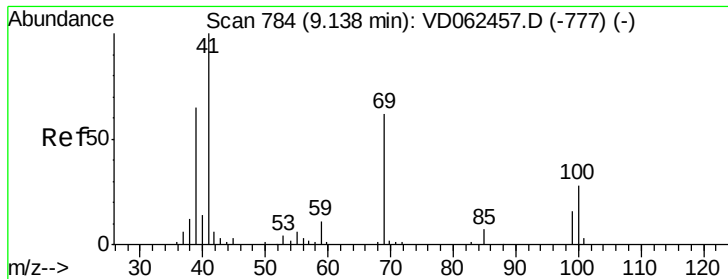
85 2.4 50.9 76.3#

127 0.0 8.1 12.1#



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

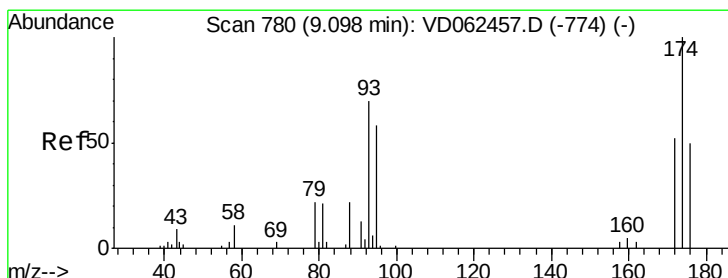
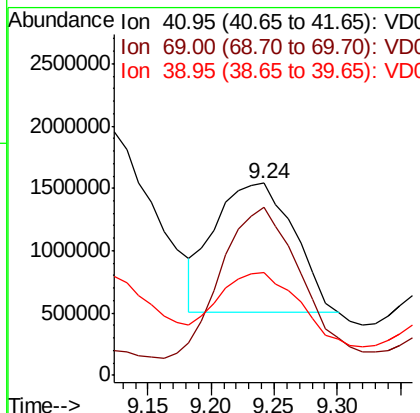
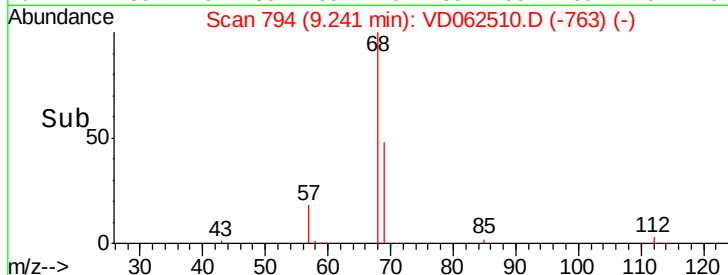
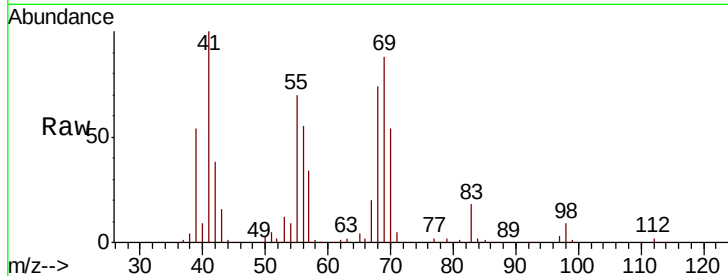




#48
Methyl methacrylate
Concen: 3218.344 ug/l
RT: 9.24 min Scan# 794
Delta R.T. 0.10 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

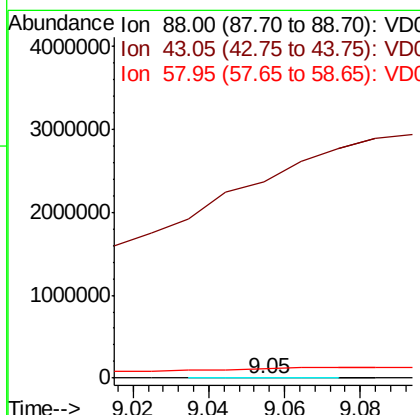
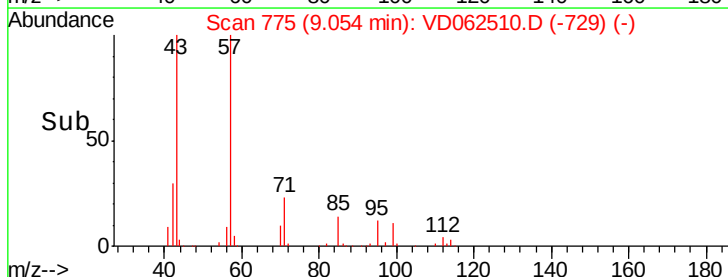
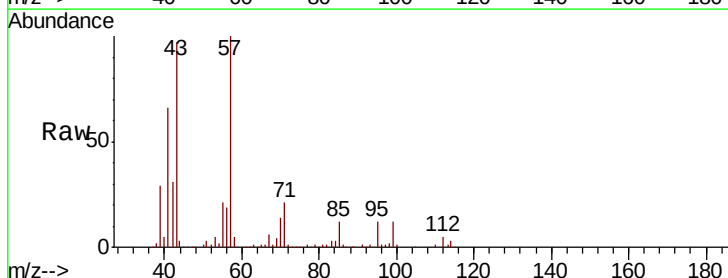
Instrument :
MSVOA_D
ClientSampled :

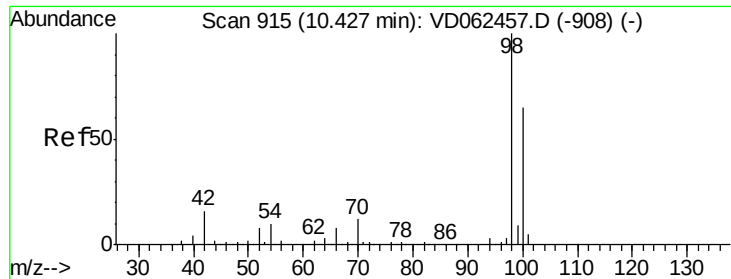
Tot Ion: 41 Resp: 4534624
Ion Ratio Lower Upper
41 100
69 87.9 64.2 96.2
39 53.9 46.8 70.2



#49
1,4-Dioxane
Concen: 19.940 ug/l
RT: 9.05 min Scan# 775
Delta R.T. -0.04 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

Tgt Ion: 88 Resp: 252
Ion Ratio Lower Upper
88 100
43 552888.1 23.4 35.0#
58 26139.6 44.0 66.0#





#50

Toluene-d8

Concen: 69.481 ug/l

RT: 10.47 min Scan# 919

Delta R.T. 0.04 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

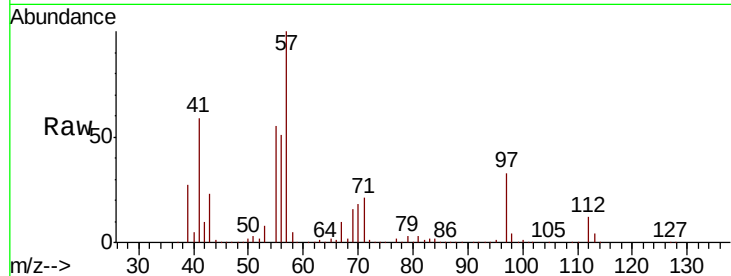
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 582884

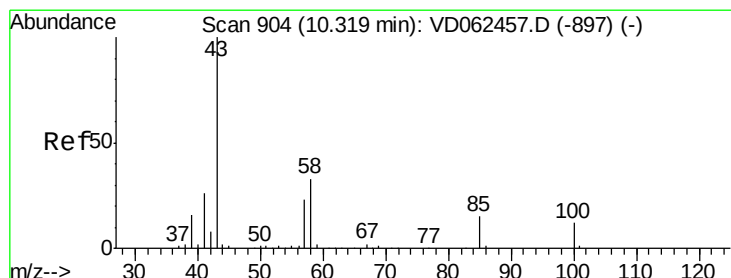
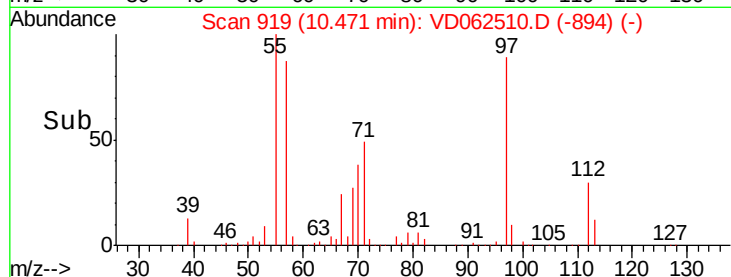
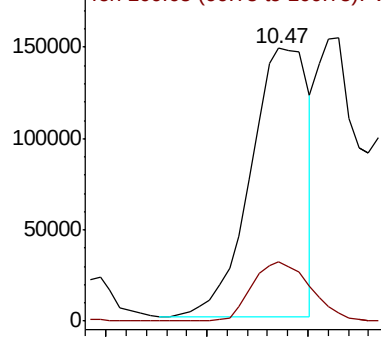
Ion Ratio Lower Upper

98 100

100 21.8 53.8 80.8#



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



#51

4-Methyl-2-Pentanone

Concen: 21151.907 ug/l

RT: 10.29 min Scan# 901

Delta R.T. -0.02 min

Lab File: VD062510.D

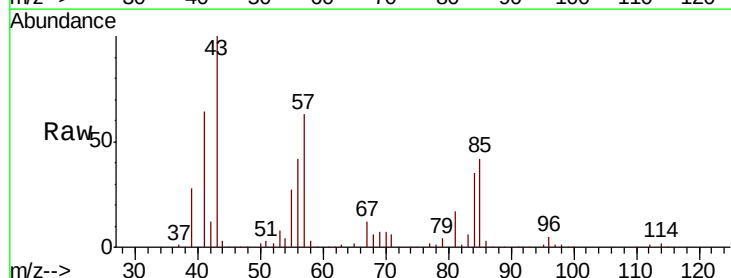
Acq: 22 May 2019 18:35

Tgt Ion: 43 Resp: 29256917

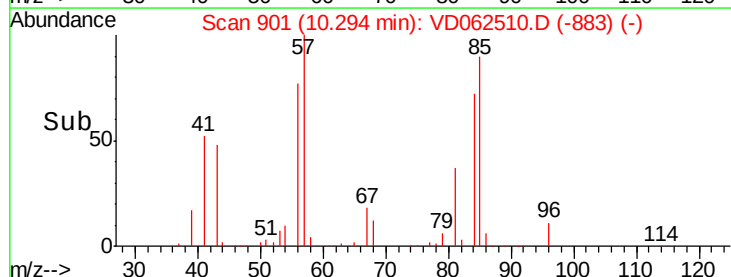
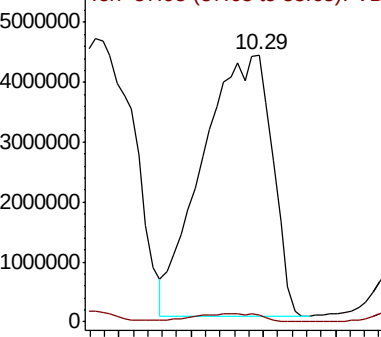
Ion Ratio Lower Upper

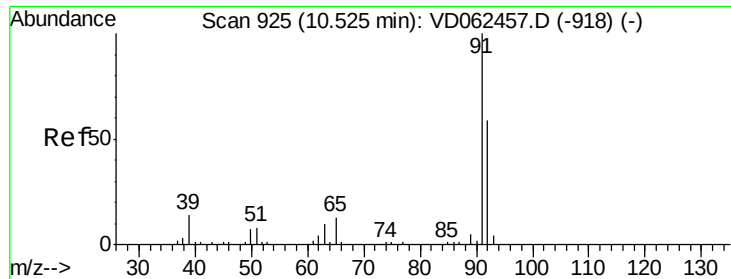
43 100

58 2.8 30.4 45.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC





#52

Toluene

Concen: 161.794 ug/l

RT: 10.58 min Scan# 930

Delta R.T. 0.05 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

Instrument :

MSVOA_D

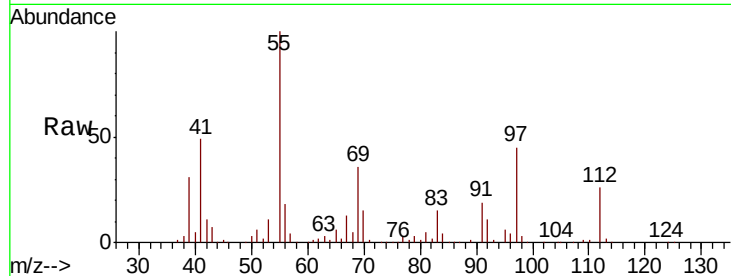
ClientSampleId :

Tot Ion: 92 Resp: 882662

Ion Ratio Lower Upper

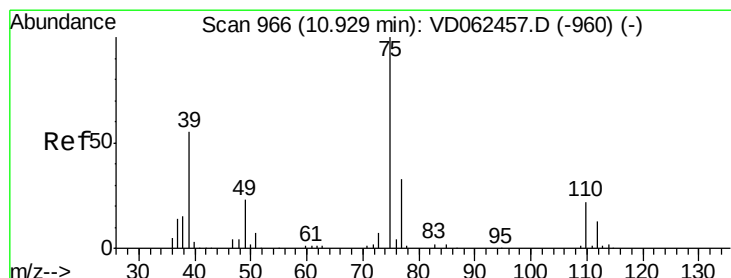
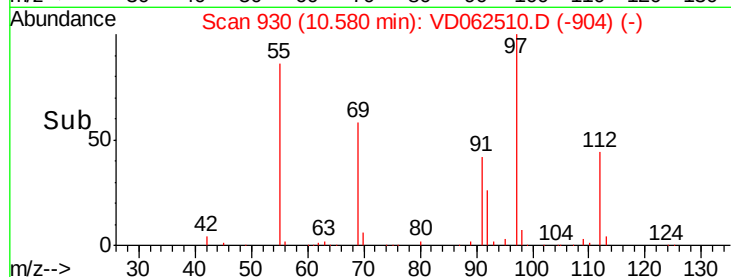
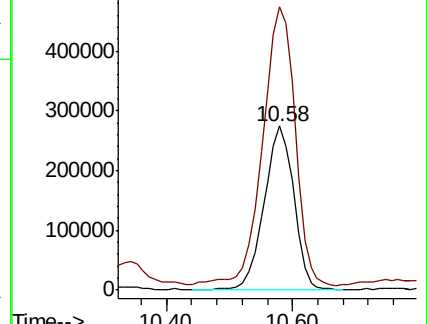
92 100

91 172.5 136.6 204.8



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: 5.350 ug/l

RT: 10.87 min Scan# 959

Delta R.T. -0.06 min

Lab File: VD062510.D

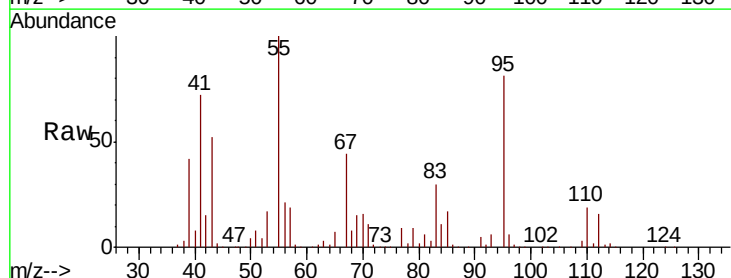
Acq: 22 May 2019 18:35

Tgt Ion: 75 Resp: 19948

Ion Ratio Lower Upper

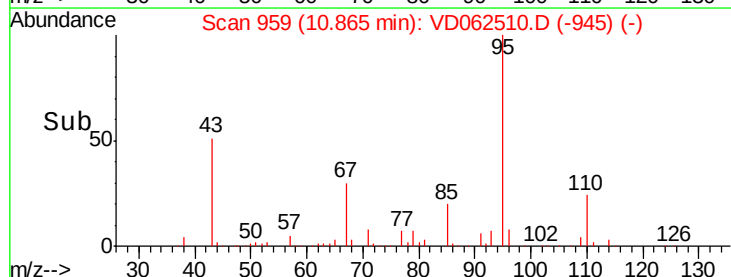
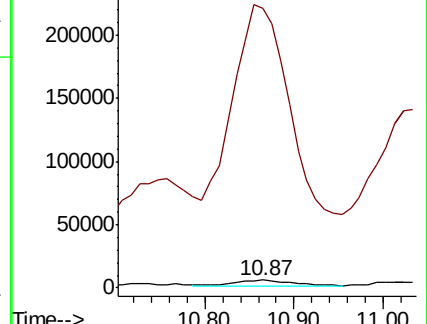
75 100

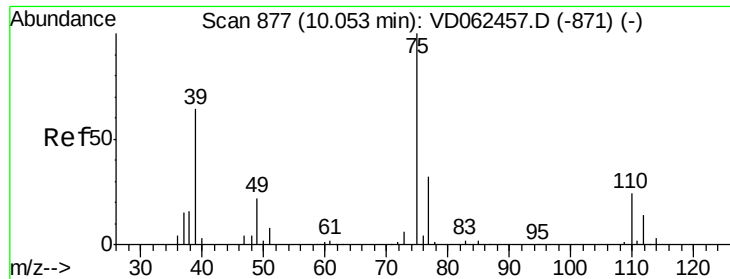
77 3623.9 25.8 38.8#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



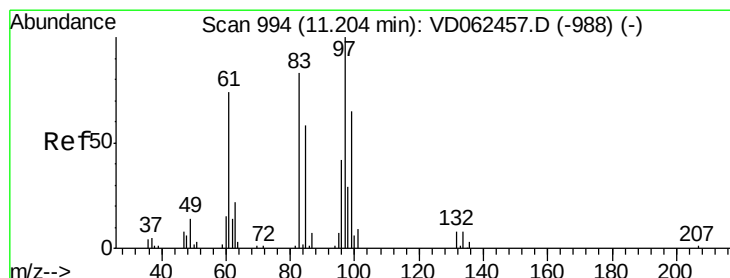
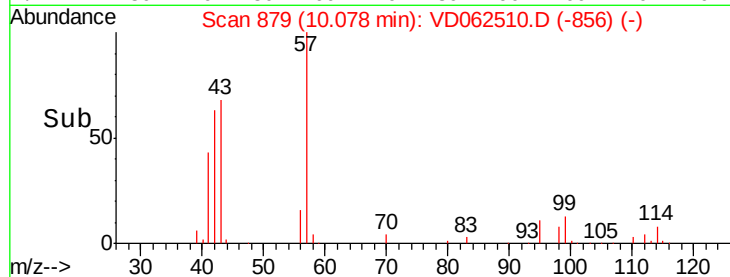
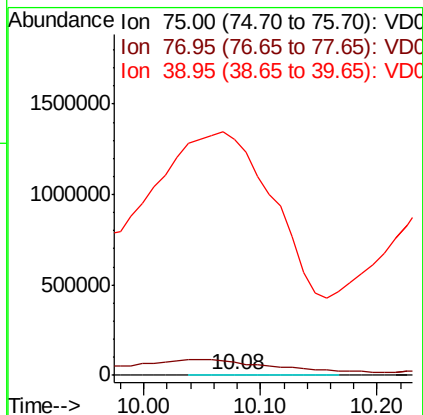
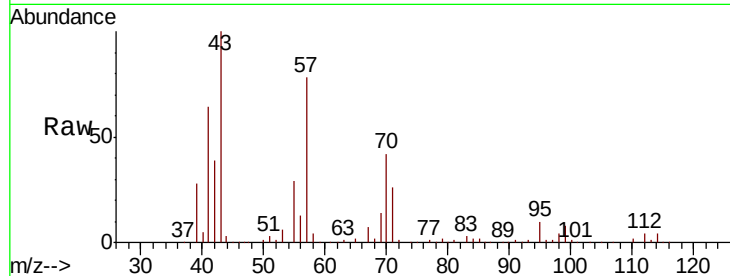


#54

cis-1,3-Dichloropropene
 Concen: 2.123 ug/l
 RT: 10.08 min Scan# 879
 Delta R.T. 0.03 min
 Lab File: VD062510.D
 Acq: 22 May 2019 18:35

Instrument :
 MSVOA_D
 ClientSampleId :

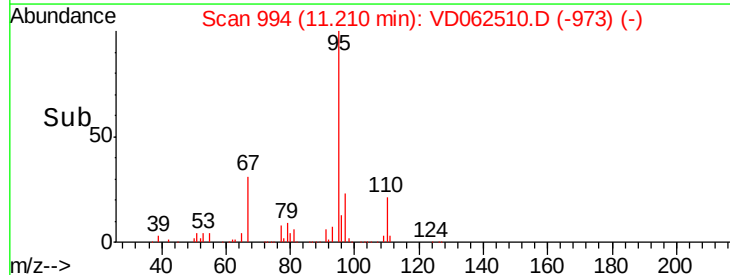
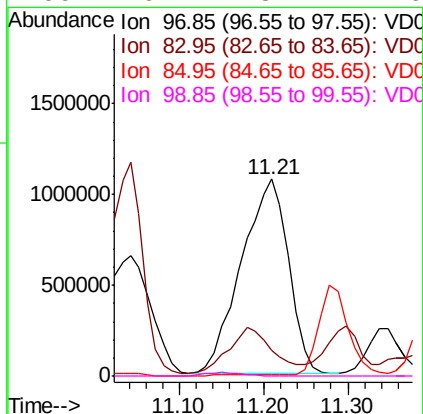
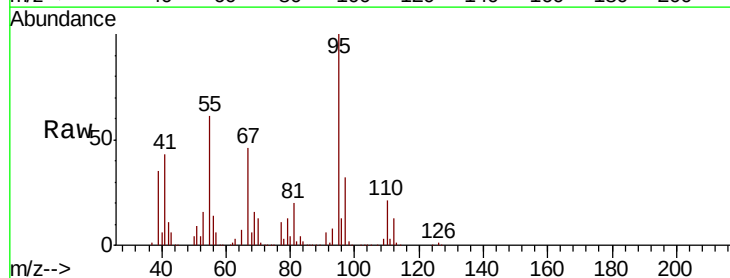
Tot Ion: 75 Resp: 8260
 Ion Ratio Lower Upper
 75 100
 77 2371.3 25.5 38.3#
 39 44136.1 39.4 59.2#

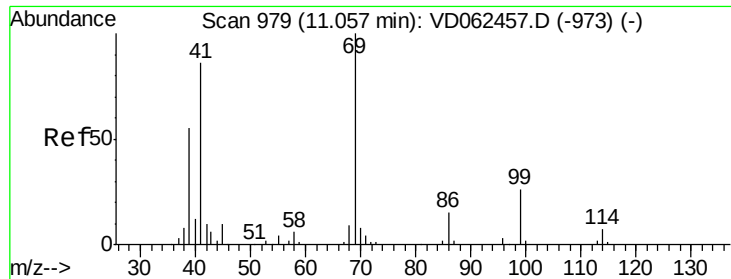


#55

1,1,2-Trichloroethane
 Concen: 2272.914 ug/l
 RT: 11.21 min Scan# 994
 Delta R.T. 0.01 min
 Lab File: VD062510.D
 Acq: 22 May 2019 18:35

Tgt Ion: 97 Resp: 4202516
 Ion Ratio Lower Upper
 97 100
 83 12.9 65.7 98.5#
 85 0.6 45.6 68.4#
 99 0.2 48.4 72.6#





#56

Ethyl methacrylate

Concen: 5994.032 ug/l

RT: 11.00 min Scan# 973

Delta R.T. -0.05 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

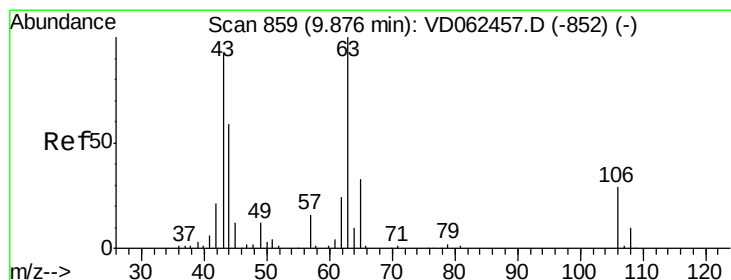
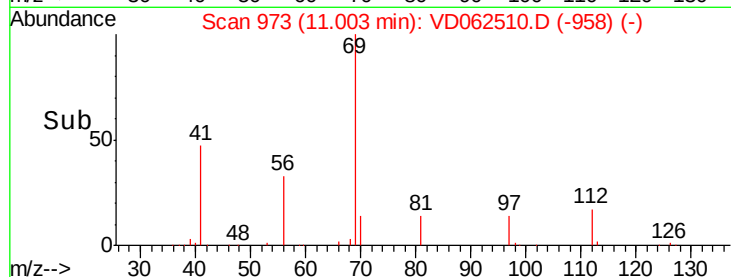
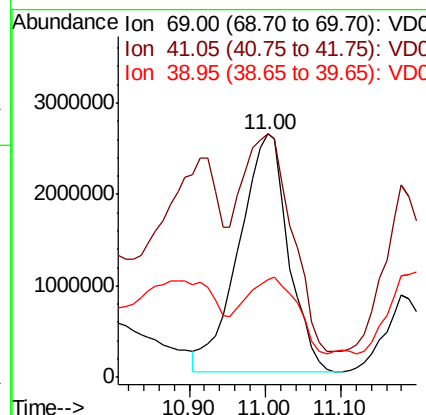
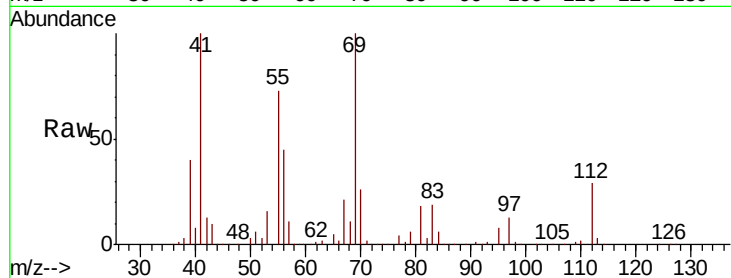
Instrument :

MSVOA_D

ClientSampleID :

Tot Ion: 69 Resp: 11847719

Ion	Ratio	Lower	Upper
69	100		
41	100.0	56.3	84.5#
39	40.1	29.4	44.2



#58

2-Chloroethyl Vinyl ether

Concen: 391.556 ug/l

RT: 9.78 min Scan# 849

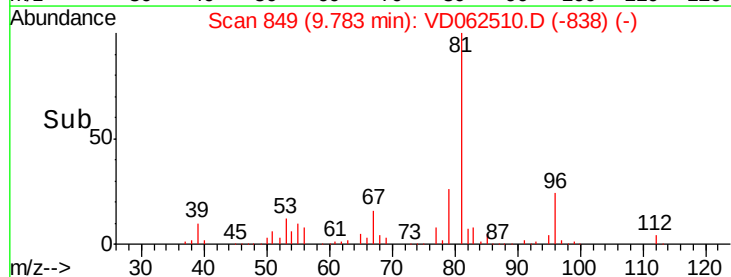
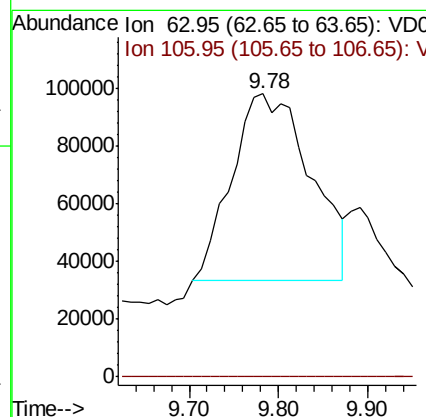
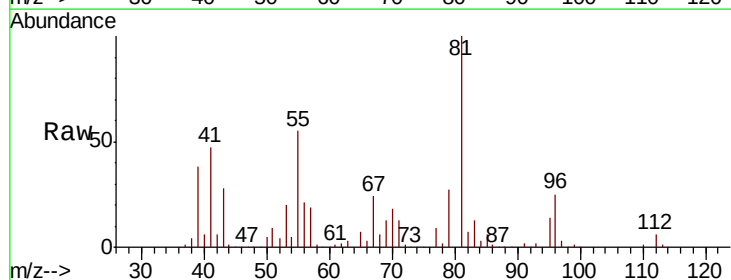
Delta R.T. -0.09 min

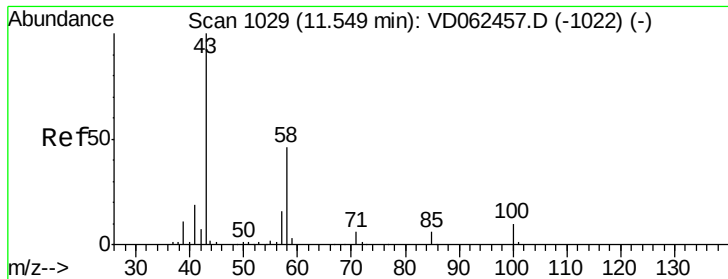
Lab File: VD062510.D

Acq: 22 May 2019 18:35

Tgt Ion: 63 Resp: 397413

Ion	Ratio	Lower	Upper
63	100		
106	0.0	22.6	34.0#

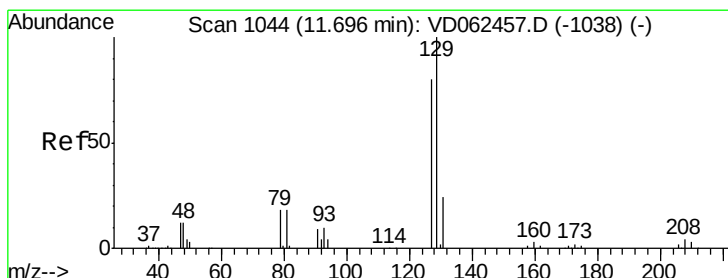
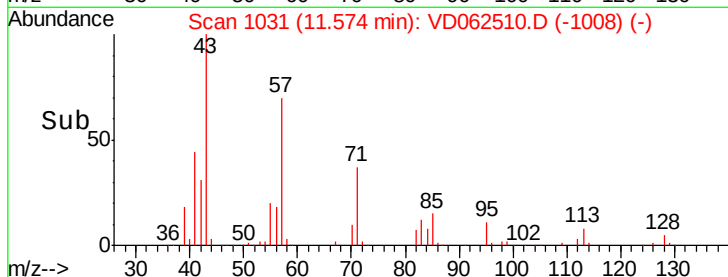
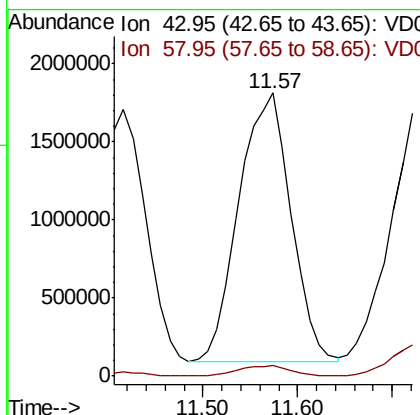
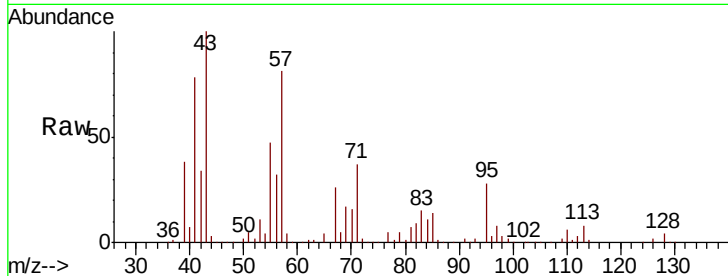




#59
2-Hexanone
Concen: 6506.870 ug/l
RT: 11.57 min Scan# 1031
Delta R.T. 0.03 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

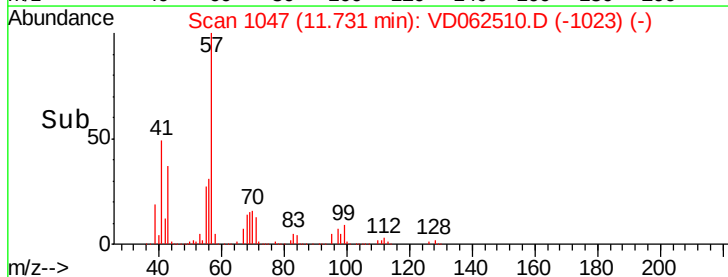
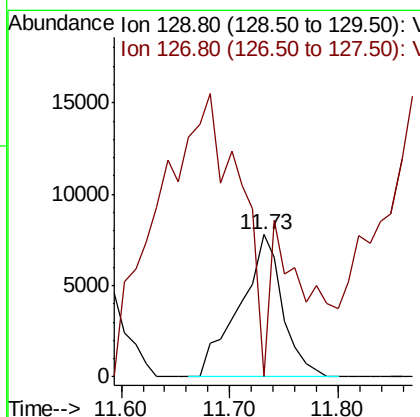
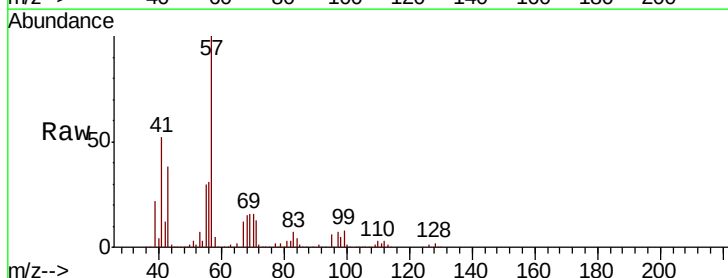
Instrument :
MSVOA_D
ClientSampled :

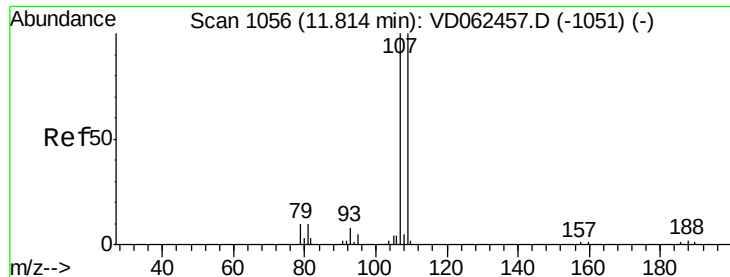
Tot Ion: 43 Resp: 6541148
Ion Ratio Lower Upper
43 100
58 3.6 25.4 76.4#



#60
Dibromochloromethane
Concen: 6.056 ug/l
RT: 11.73 min Scan# 1047
Delta R.T. 0.03 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

Tgt Ion: 129 Resp: 21506
Ion Ratio Lower Upper
129 100
127 0.0 38.0 113.9#





#61

1,2-Dibromoethane

Concen: 8.903 ug/l

RT: 11.81 min Scan# 1055

Delta R.T. -0.00 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

Instrument :

MSVOA_D

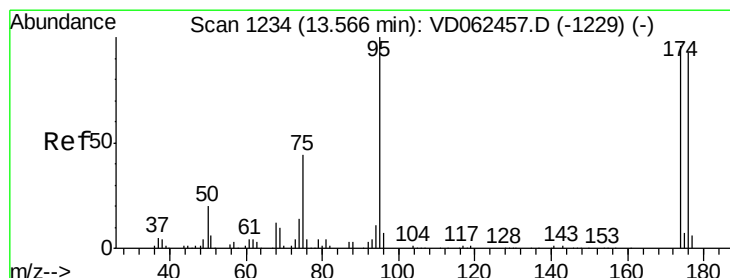
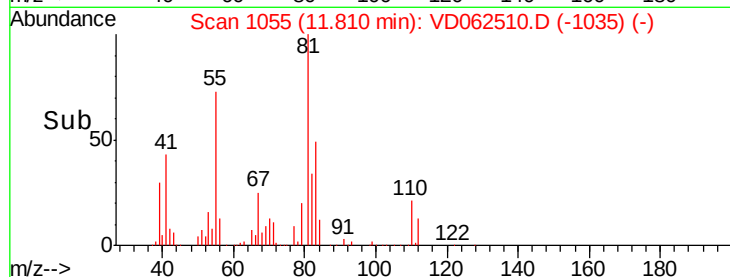
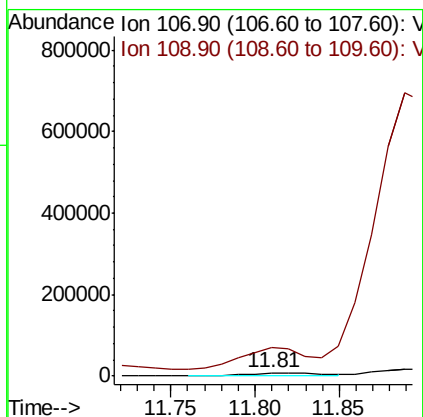
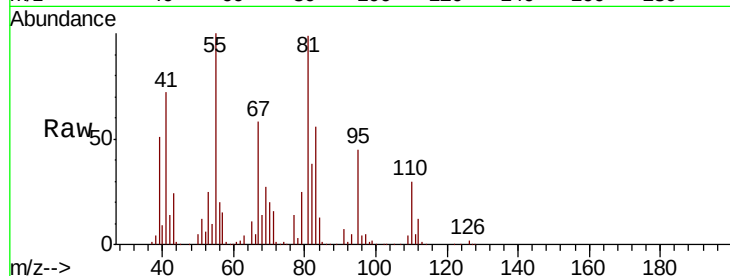
ClientSampleId :

Tot Ion:107 Resp: 20286

Ion Ratio Lower Upper

107 100

109 896.7 78.3 117.5#



#62

4-Bromofluorobenzene

Concen: 135.917 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. 0.01 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

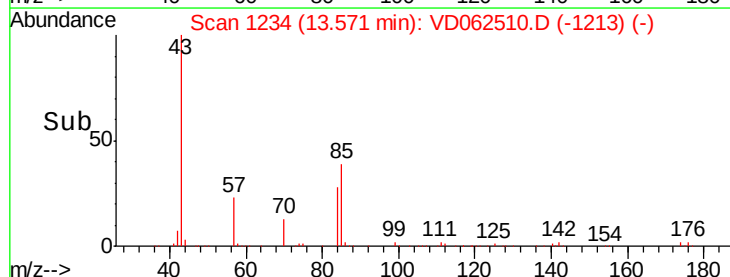
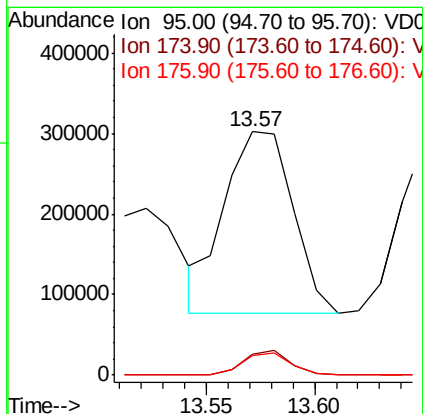
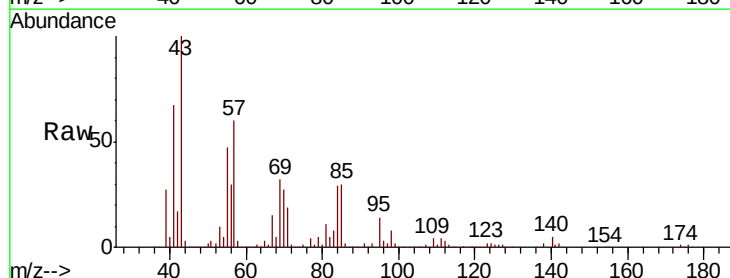
Tgt Ion: 95 Resp: 498773

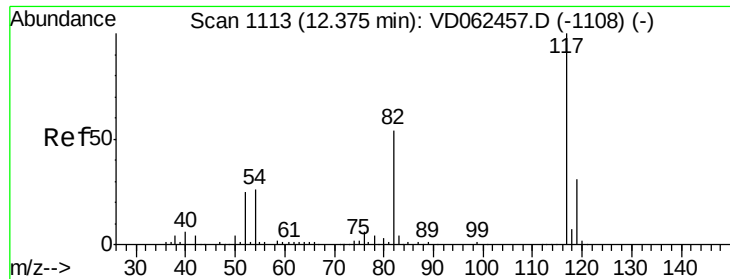
Ion Ratio Lower Upper

95 100

174 8.4 0.0 181.8

176 8.2 0.0 174.4

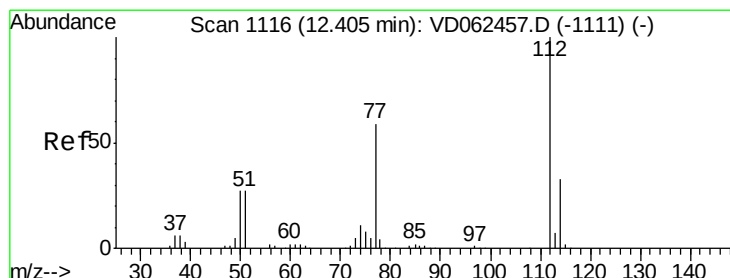
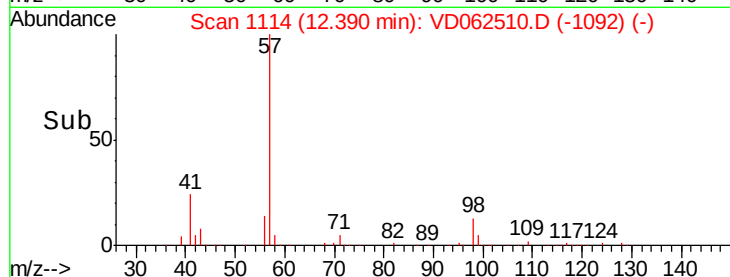
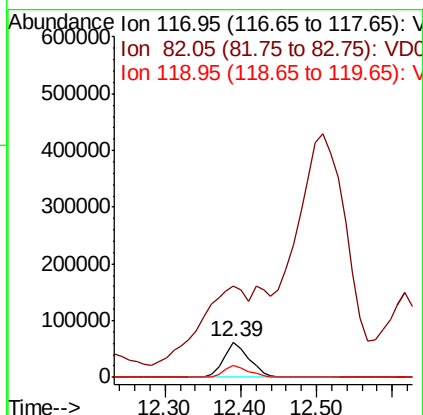
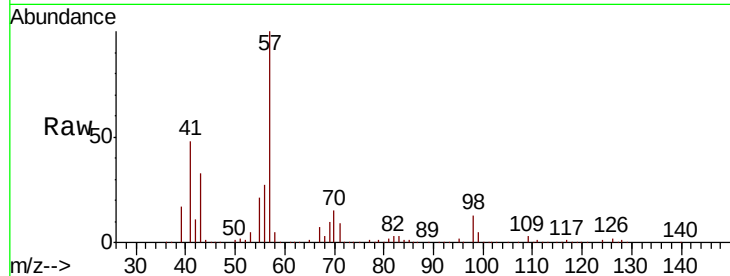




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.39 min Scan# 1114
Delta R.T. 0.02 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

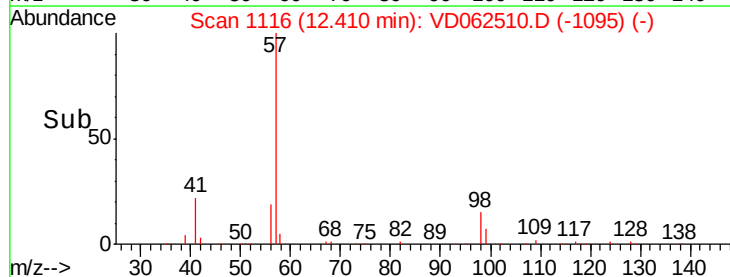
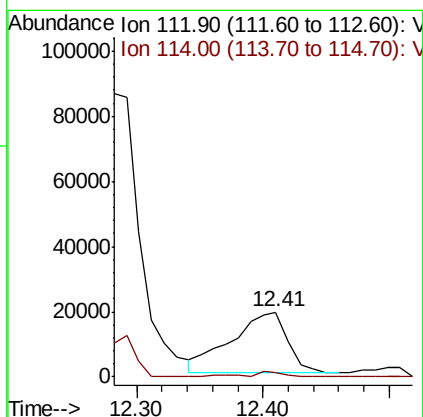
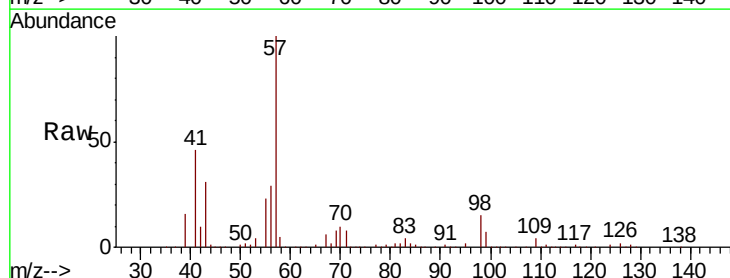
Instrument :
MSVOA_D
ClientSampleID :

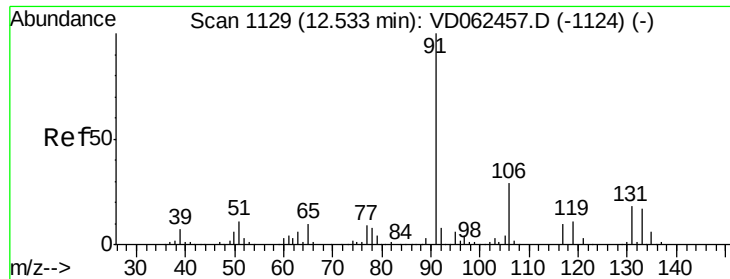
Tot Ion:117 Resp: 143034
Ion Ratio Lower Upper
117 100
82 260.7 36.2 54.2#
119 33.3 26.2 39.4



#65
Chlorobenzene
Concen: 21.300 ug/l
RT: 12.41 min Scan# 1116
Delta R.T. 0.01 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

Tgt Ion:112 Resp: 58588
Ion Ratio Lower Upper
112 100
114 7.5 25.8 38.8#





#67

Ethyl Benzene

Concen: 1719.593 ug/l

RT: 12.57 min Scan# 1132

Delta R.T. 0.03 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

Instrument :

MSVOA_D

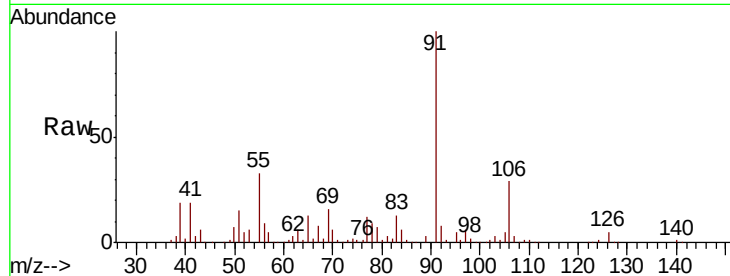
ClientSampled :

Tot Ion: 91 Resp: 8146987

Ion Ratio Lower Upper

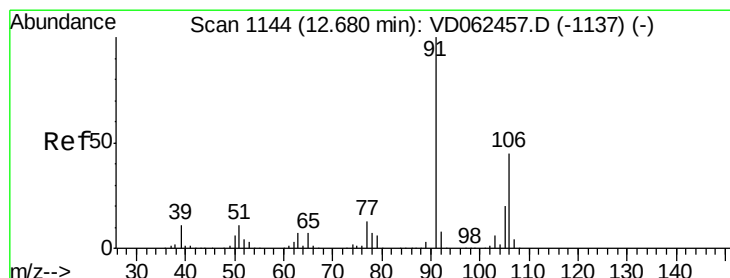
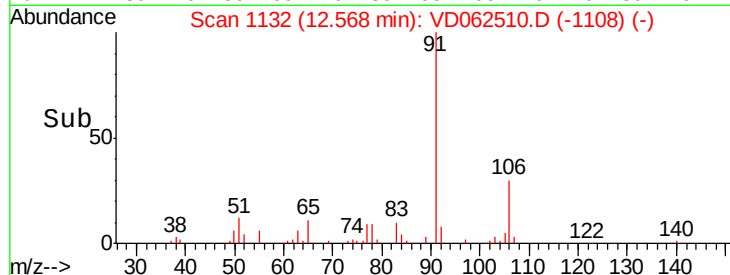
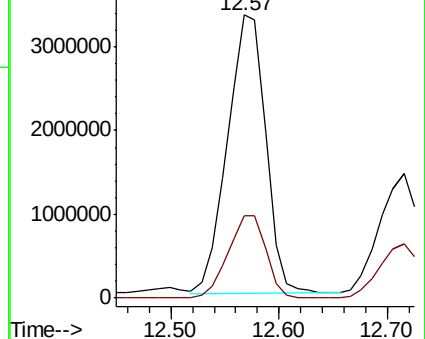
91 100

106 29.1 24.7 37.1



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 106.05 (105.75 to 106.75): VDC



#68

m/p-Xylenes

Concen: 941.868 ug/l

RT: 12.72 min Scan# 1147

Delta R.T. 0.03 min

Lab File: VD062510.D

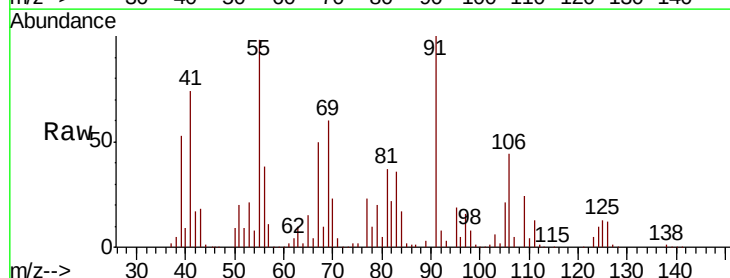
Acq: 22 May 2019 18:35

Tgt Ion:106 Resp: 1601800

Ion Ratio Lower Upper

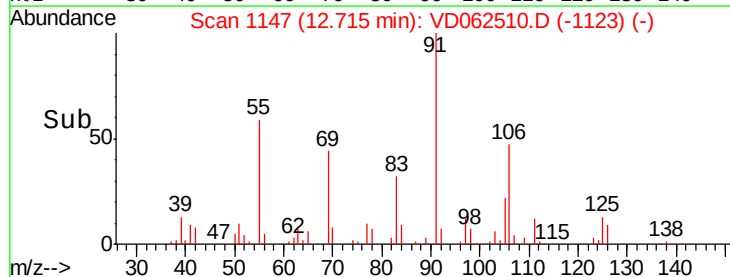
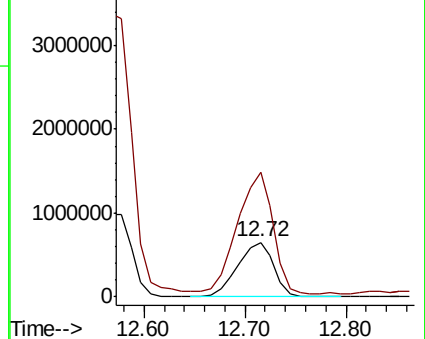
106 100

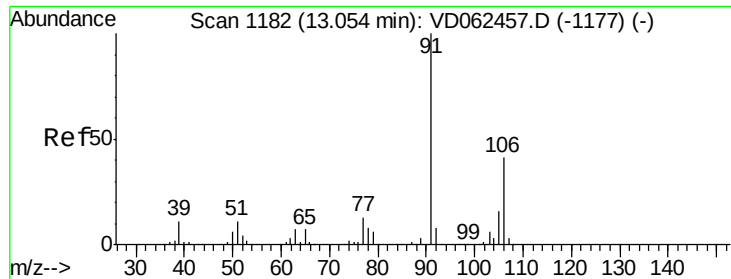
91 228.7 164.0 246.0



Abundance Ion 106.05 (105.75 to 106.75): VDC

Ion 91.00 (90.70 to 91.70): VDC

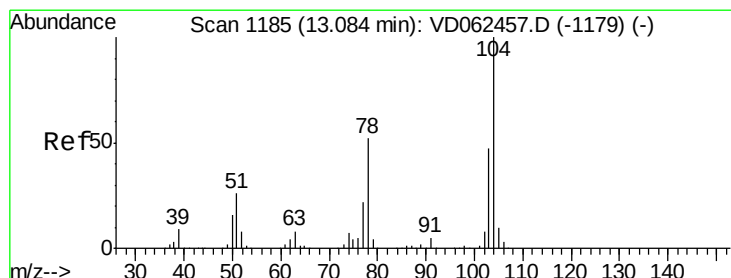
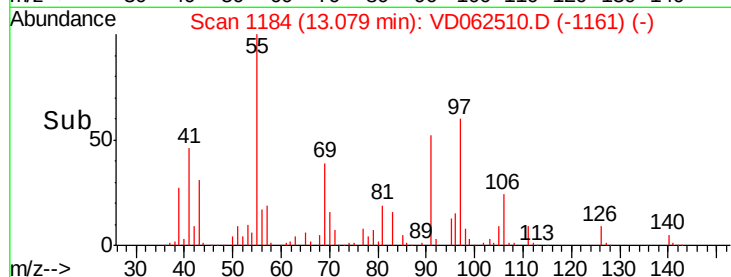
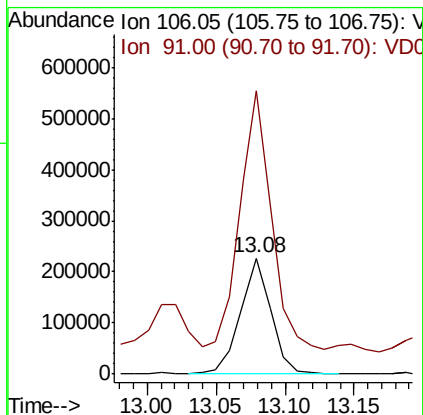
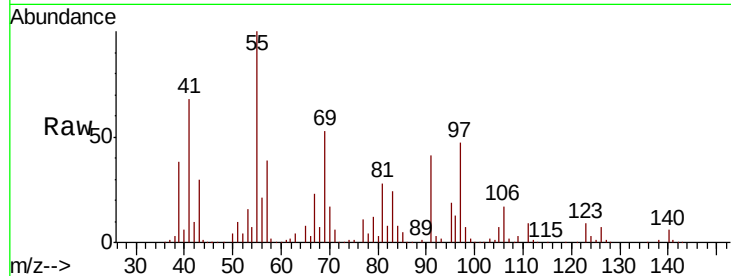




#69
o-Xylene
Concen: 219.163 ug/l
RT: 13.08 min Scan# 1184
Delta R.T. 0.03 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

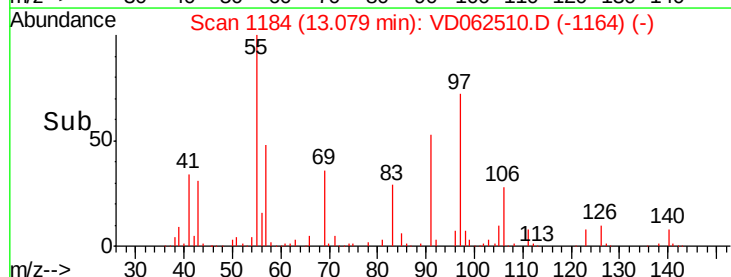
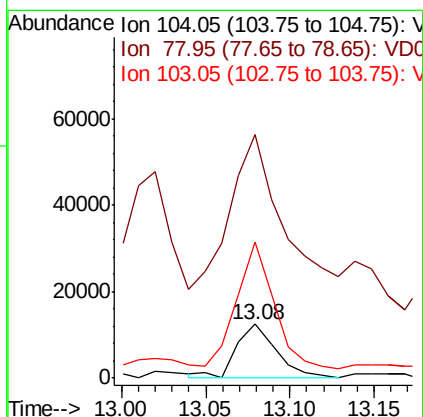
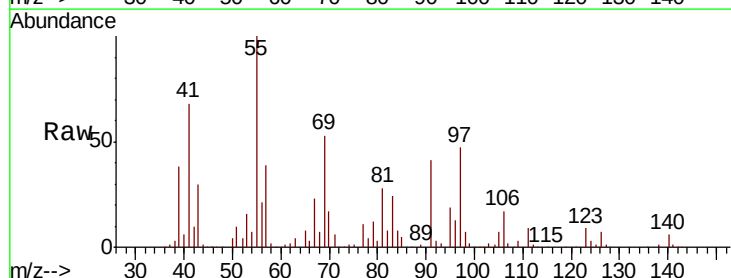
Instrument :
MSVOA_D
ClientSampled :

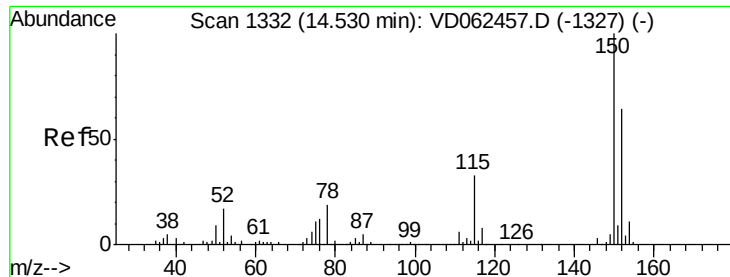
Tot Ion:106 Resp: 351673
Ion Ratio Lower Upper
106 100
91 244.3 106.7 319.9



#70
Styrene
Concen: 7.589 ug/l
RT: 13.08 min Scan# 1184
Delta R.T. -0.00 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

Tgt Ion:104 Resp: 20715
Ion Ratio Lower Upper
104 100
78 451.7 35.4 53.2#
103 252.6 37.5 56.3#



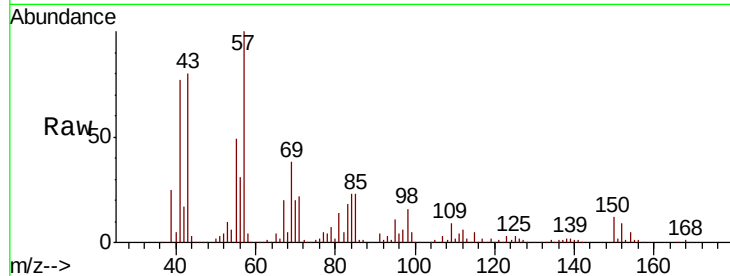


#72

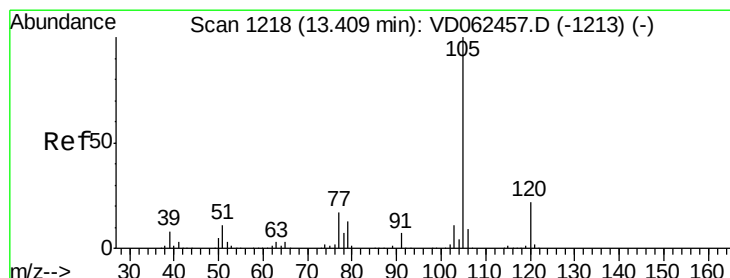
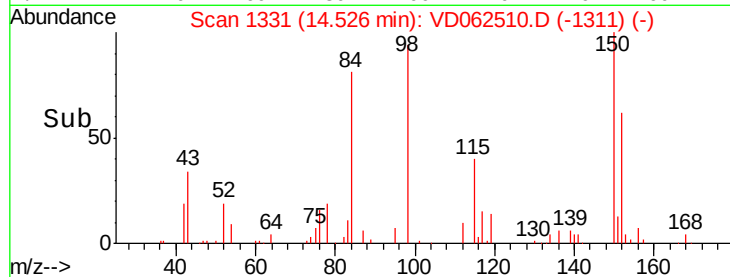
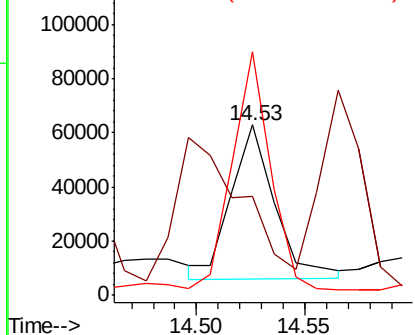
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1331
Delta R.T. -0.00 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:152 Resp: 81070
Ion Ratio Lower Upper
152 100
115 58.1 30.9 92.7
150 142.8 0.0 314.8



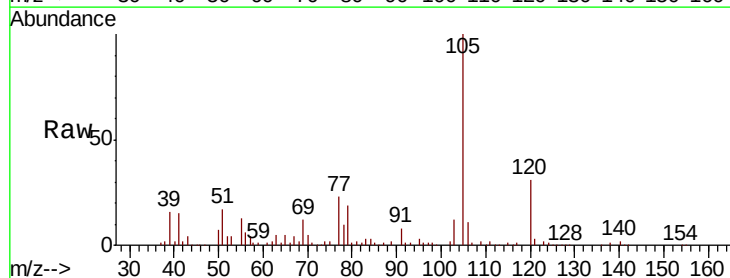
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



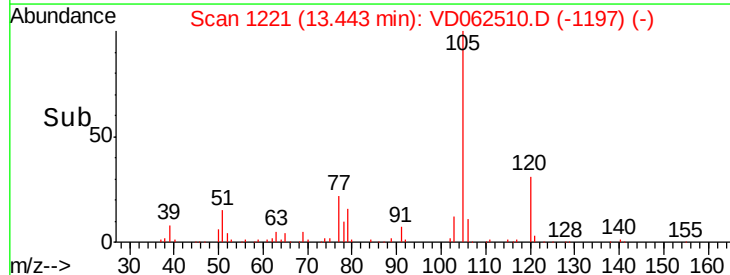
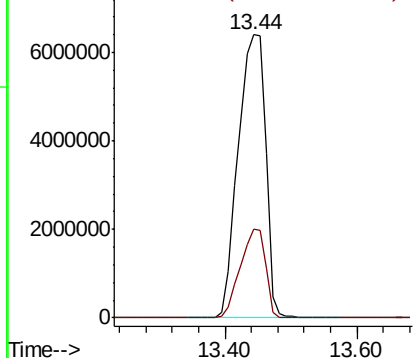
#73

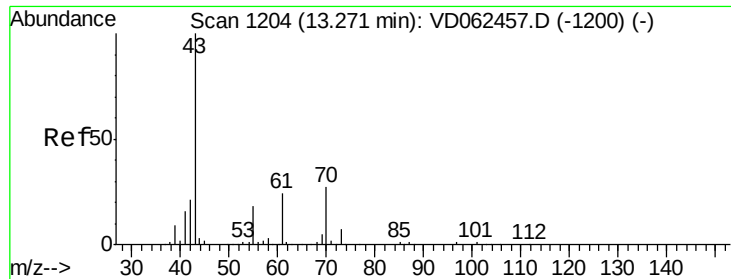
Isopropylbenzene
Concen: 3671.104 ug/l
RT: 13.44 min Scan# 1221
Delta R.T. 0.03 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

Tgt Ion:105 Resp:18759890
Ion Ratio Lower Upper
105 100
120 31.2 12.0 36.1



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



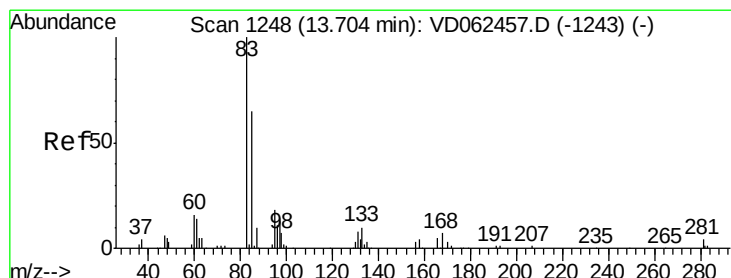
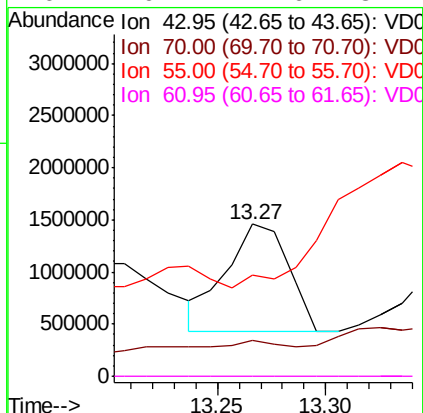
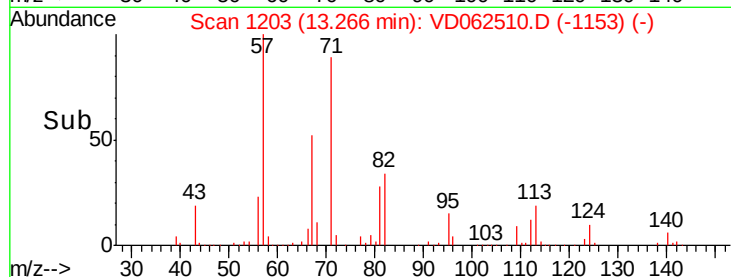
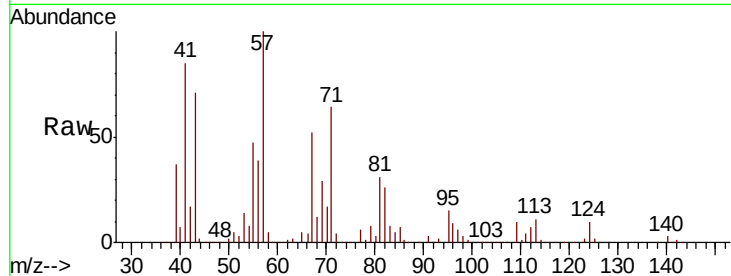


#74
N-amvl acetate
Concen: 1618.537 ug/l
RT: 13.27 min Scan# 1203
Delta R.T. -0.00 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 2042788

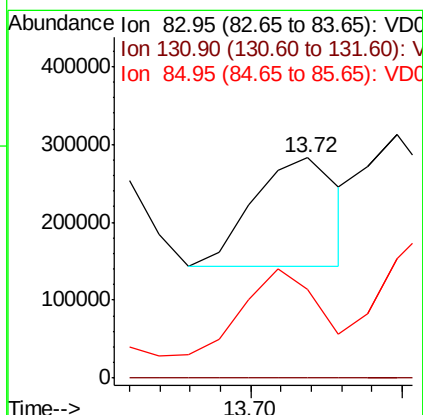
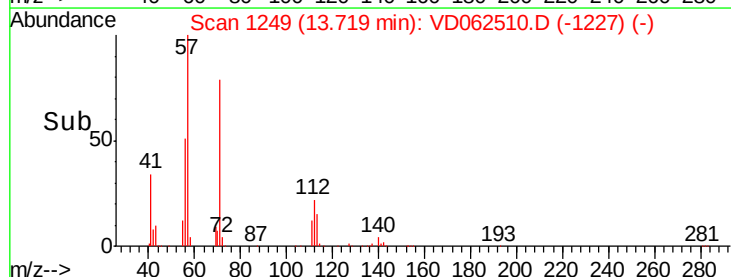
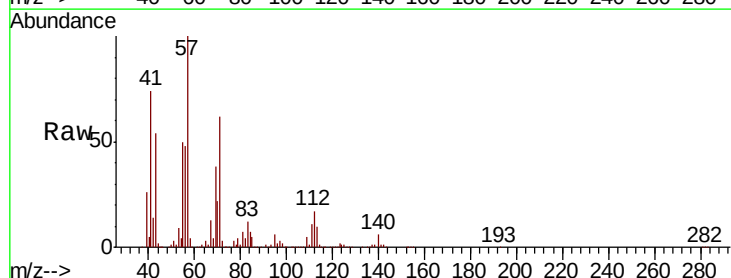
Ion	Ratio	Lower	Upper
43	100		
70	23.7	24.2	36.4#
55	66.8	16.0	24.0#
61	0.2	21.6	32.4#

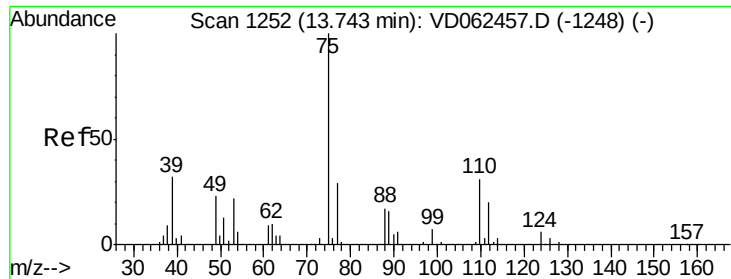


#75
1,1,2,2-Tetrachloroethane
Concen: 295.264 ug/l
RT: 13.72 min Scan# 1249
Delta R.T. 0.02 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

Tgt Ion: 83 Resp: 272207

Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.0	14.9#
85	40.0	32.6	97.7

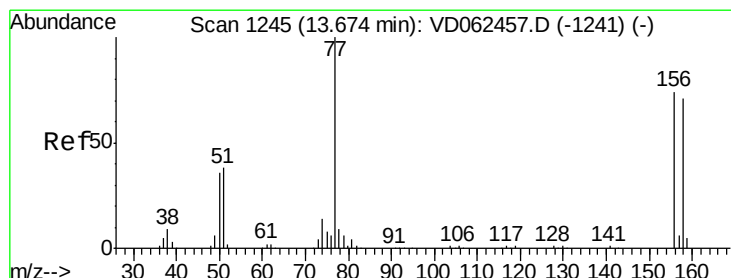
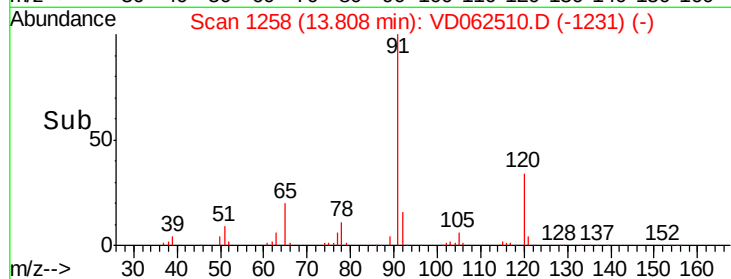
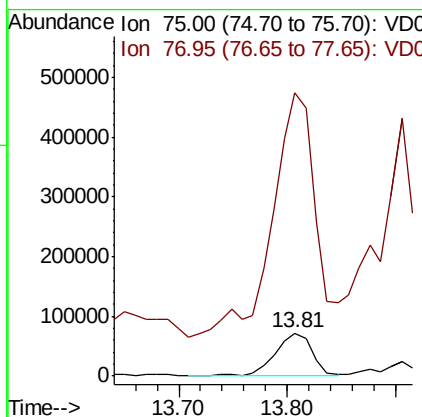
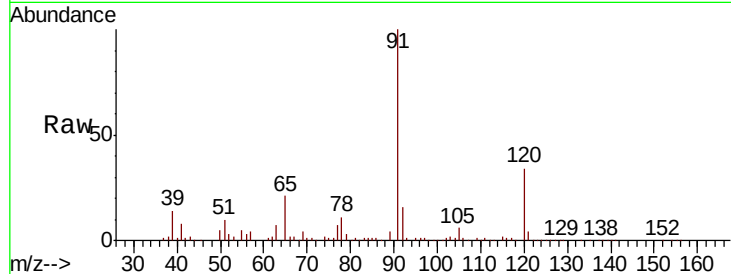




#76
 1,2,3-Trichloropropane
 Concen: 168.793 ug/l
 RT: 13.81 min Scan# 1258
 Delta R.T. 0.06 min
 Lab File: VD062510.D
 Acq: 22 May 2019 18:35

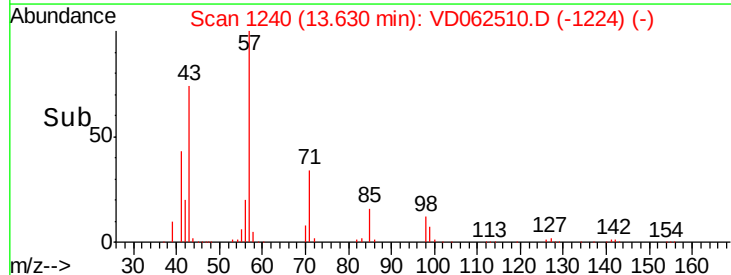
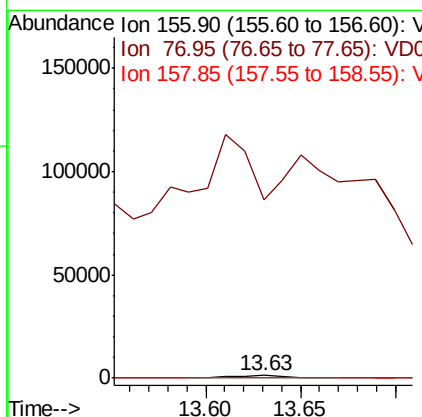
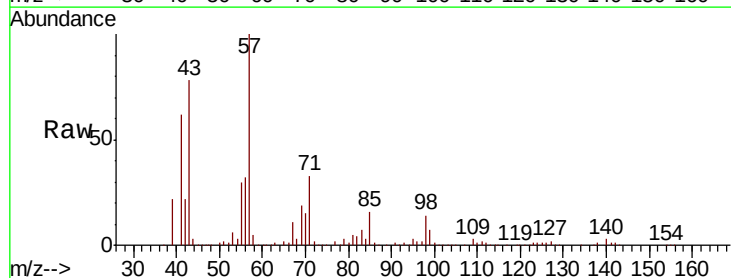
Instrument :
 MSVOA_D
 ClientSampled :

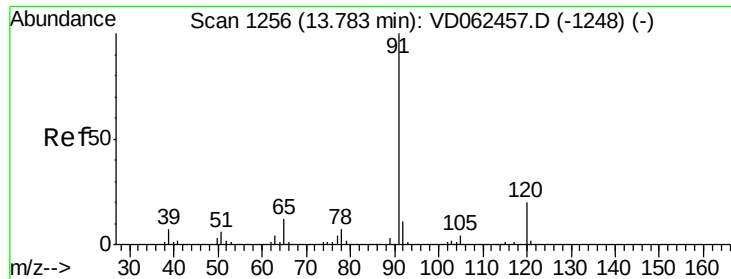
Tot Ion: 75 Resp: 161182
 Ion Ratio Lower Upper
 75 100
 77 653.8 16.4 49.4#



#77
 Bromobenzene
 Concen: 1.689 ug/l
 RT: 13.63 min Scan# 1240
 Delta R.T. -0.04 min
 Lab File: VD062510.D
 Acq: 22 May 2019 18:35

Tgt Ion:156 Resp: 2448
 Ion Ratio Lower Upper
 156 100
 77 7465.3 53.1 159.4#
 158 0.0 49.4 148.0#





#78

n-propylbenzene

Concen: 3098.643 ug/l

RT: 13.81 min Scan# 1258

Delta R.T. 0.03 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

Instrument :

MSVOA_D

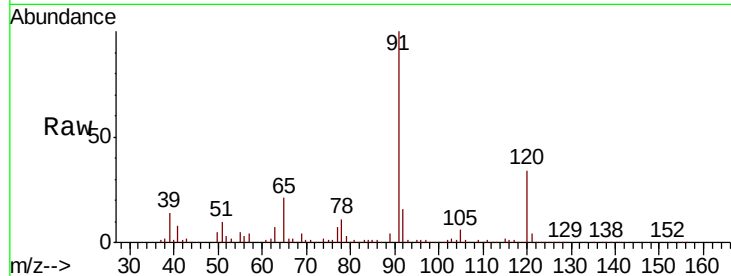
ClientSampleId :

Tot Ion: 91 Resp:18341661

Ion Ratio Lower Upper

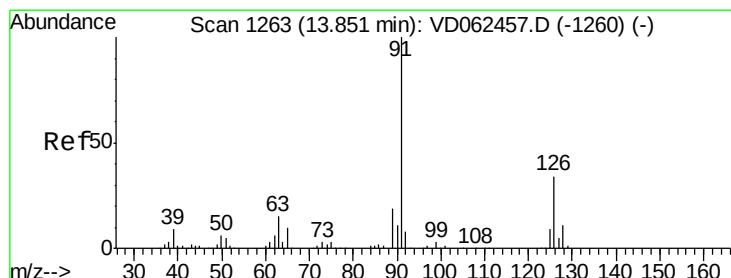
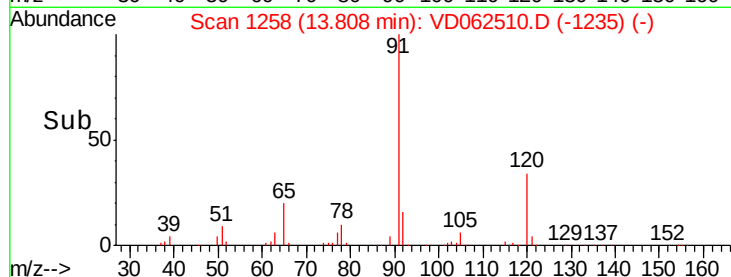
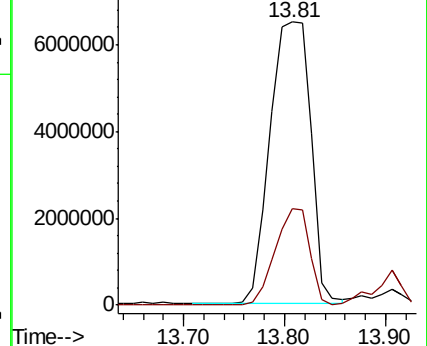
91 100

120 34.2 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: 5106.018 ug/l

RT: 13.81 min Scan# 1258

Delta R.T. -0.04 min

Lab File: VD062510.D

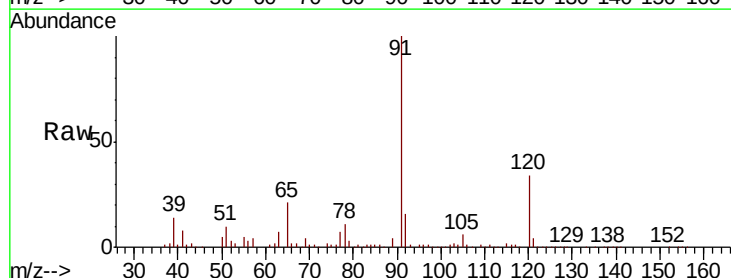
Acq: 22 May 2019 18:35

Tgt Ion: 91 Resp:18341661

Ion Ratio Lower Upper

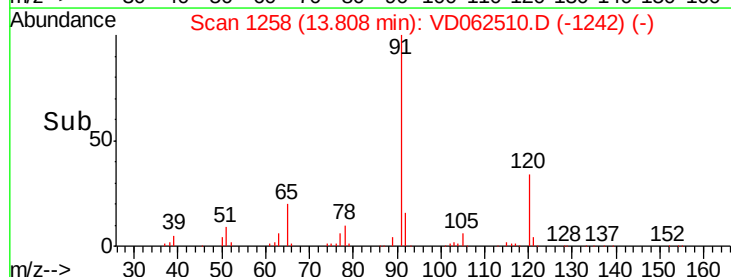
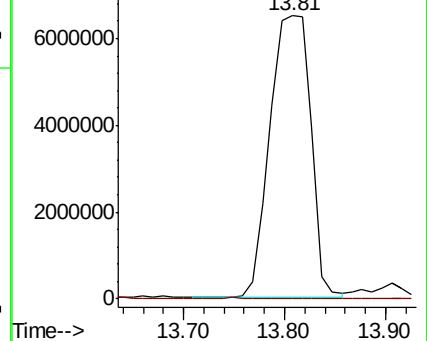
91 100

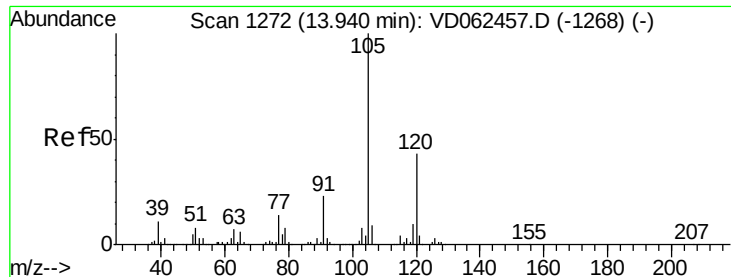
126 0.0 18.6 55.8#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V



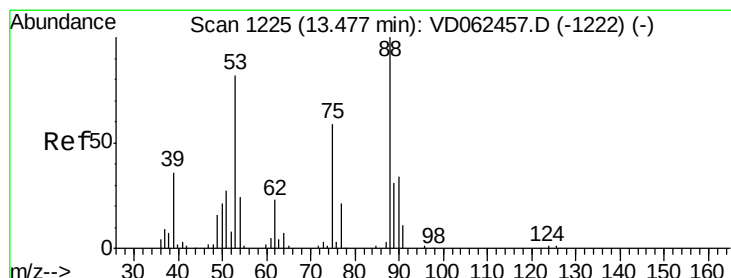
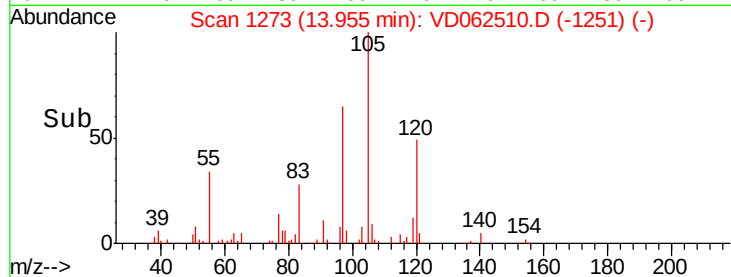
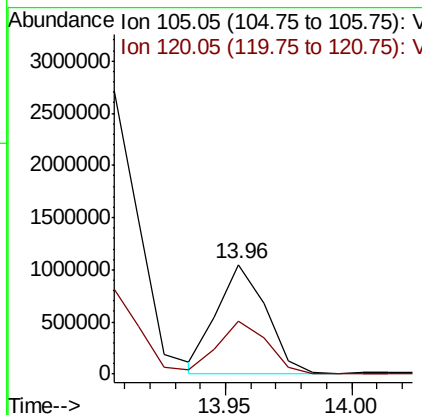
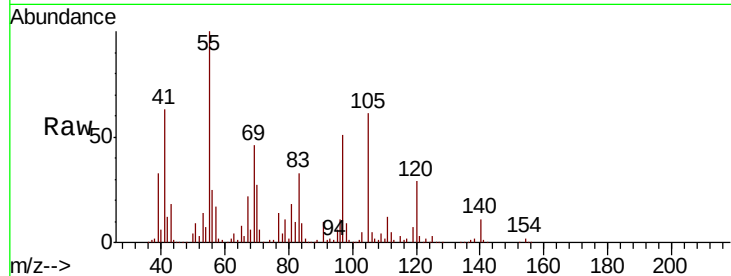


#80

1,3,5-Trimethylbenzene
Concen: 314.080 ug/l
RT: 13.96 min Scan# 1273
Delta R.T. 0.02 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

Instrument :
MSVOA_D
ClientSampleId :

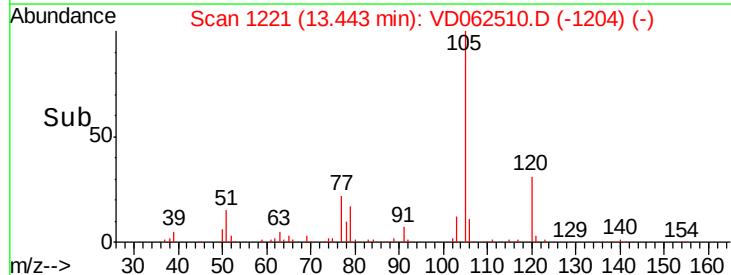
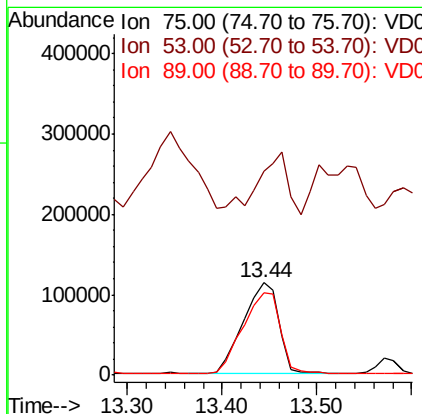
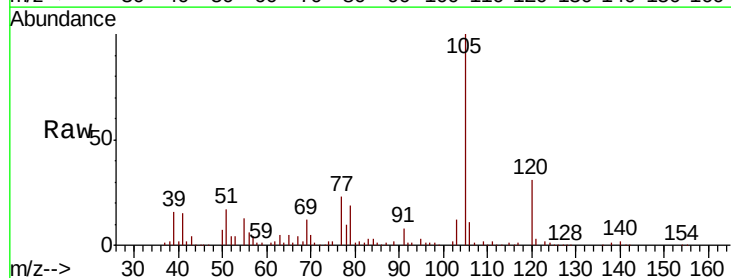
Tot Ion:105 Resp: 1389683
Ion Ratio Lower Upper
105 100
120 48.4 24.0 72.0

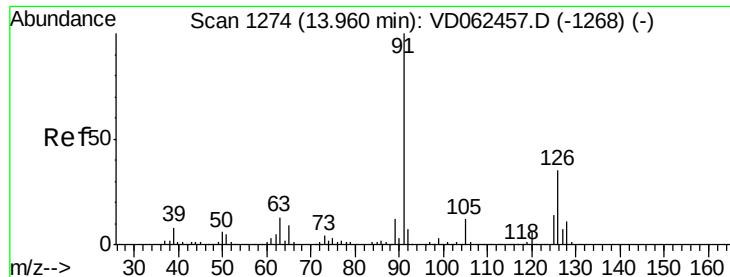


#81

trans-1,4-Dichloro-2-butene
Concen: 1089.152 ug/l
RT: 13.44 min Scan# 1221
Delta R.T. -0.03 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

Tgt Ion: 75 Resp: 293320
Ion Ratio Lower Upper
75 100
53 220.5 65.8 98.8#
89 89.4 35.0 52.6#

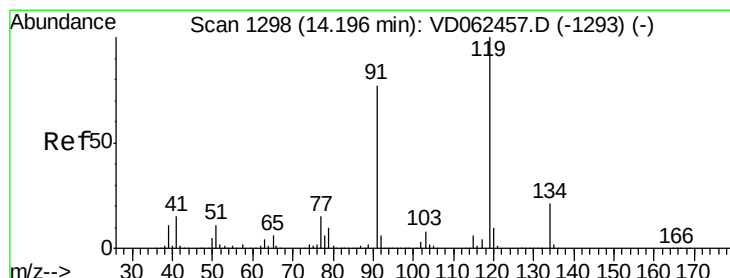
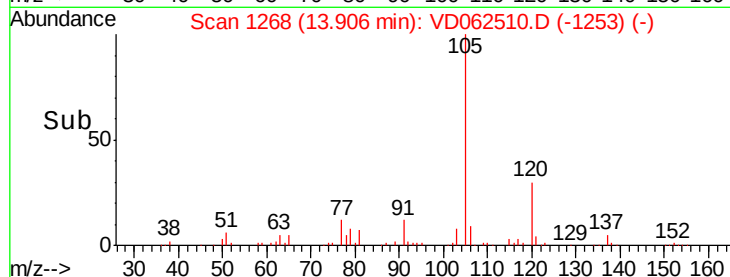
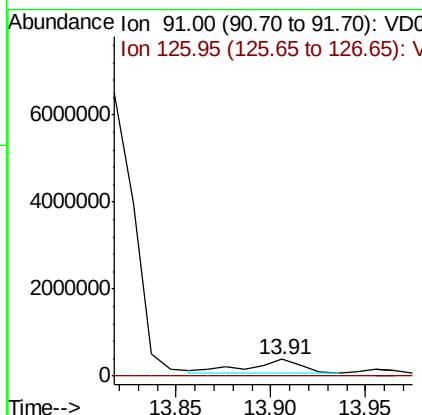
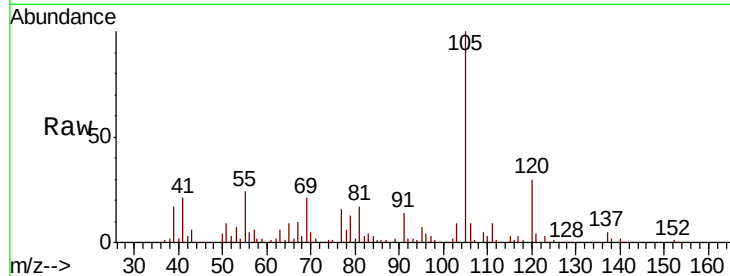




#82
4-Chlorotoluene
Concen: 147.878 ug/l
RT: 13.91 min Scan# 1268
Delta R.T. -0.05 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

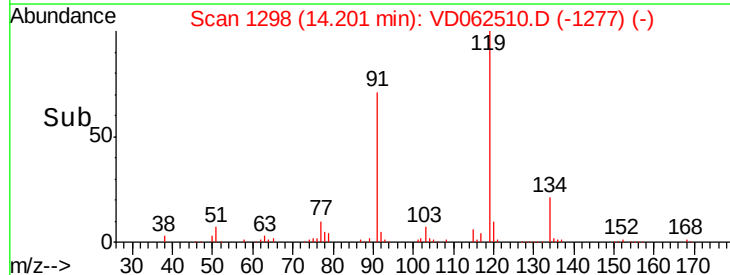
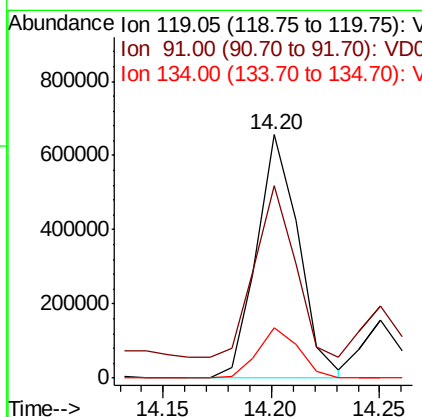
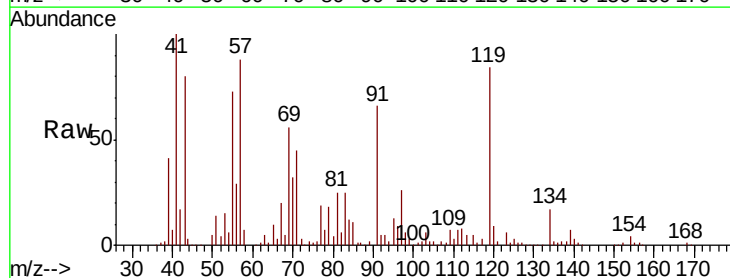
Instrument :
MSVOA_D
ClientSampleId :

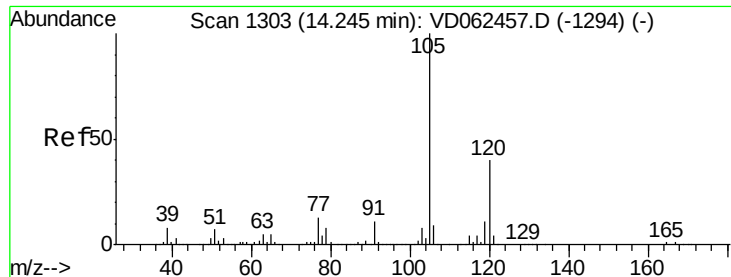
Tot Ion: 91 Resp: 611761
Ion Ratio Lower Upper
91 100
126 0.6 19.1 57.5#



#83
tert-Butylbenzene
Concen: 178.833 ug/l
RT: 14.20 min Scan# 1298
Delta R.T. 0.01 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

Tgt Ion: 119 Resp: 877707
Ion Ratio Lower Upper
119 100
91 78.9 34.2 102.6
134 20.5 12.0 36.0





#84

1,2,4-Trimethylbenzene

Concen: 362.919 ug/l

RT: 14.25 min Scan# 1303

Delta R.T. 0.01 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

Instrument :

MSVOA_D

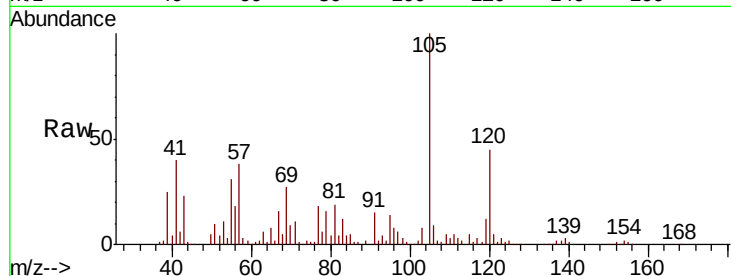
ClientSampleId :

Tot Ion:105 Resp: 1645401

Ion Ratio Lower Upper

105 100

120 45.3 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

3000000

2500000

2000000

1500000

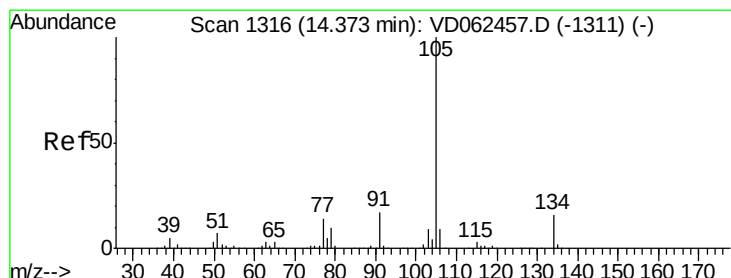
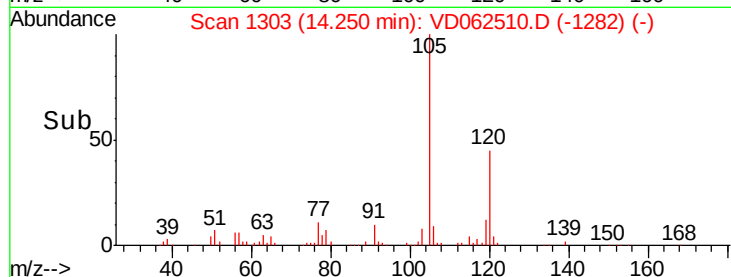
1000000

500000

0

14.20 14.25 14.30 14.35

Time-->



#85

sec-Butylbenzene

Concen: 723.492 ug/l

RT: 14.38 min Scan# 1316

Delta R.T. 0.01 min

Lab File: VD062510.D

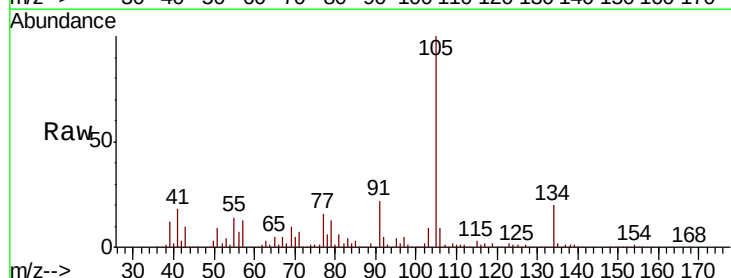
Acq: 22 May 2019 18:35

Tgt Ion:105 Resp: 3702538

Ion Ratio Lower Upper

105 100

134 19.6 8.9 26.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

3000000

2500000

2000000

1500000

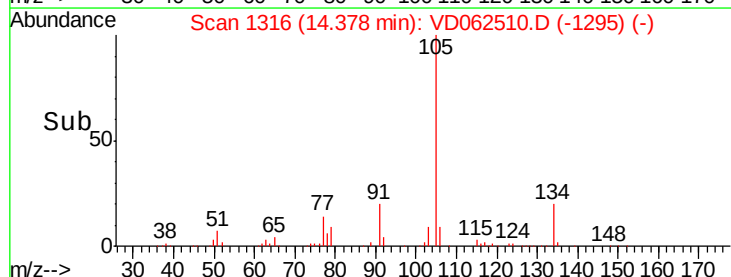
1000000

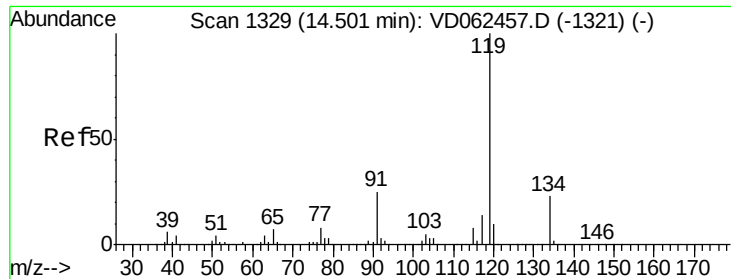
500000

0

14.30 14.35 14.40 14.45

Time-->

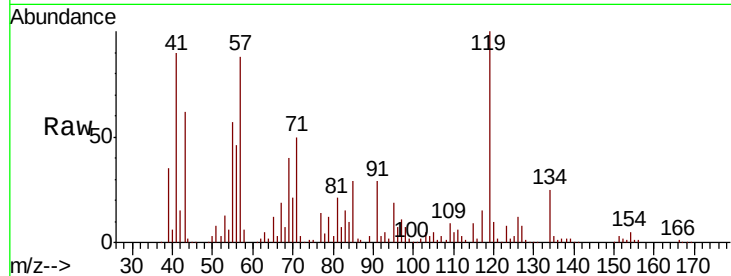




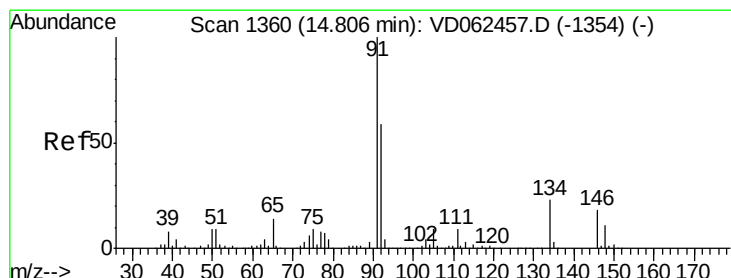
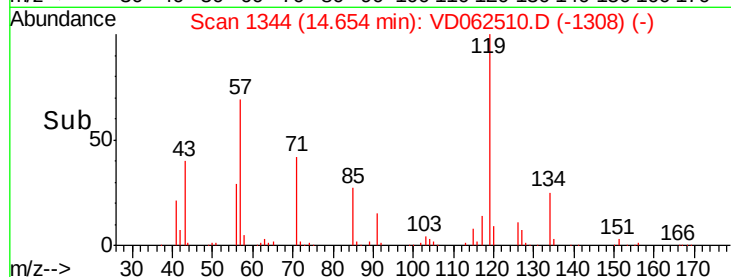
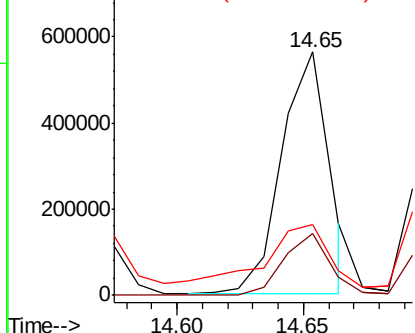
#86
p-Isopropyltoluene
Concen: 158.173 ug/l
RT: 14.65 min Scan# 1344
Delta R.T. 0.15 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:119 Resp: 733560
Ion Ratio Lower Upper
119 100
134 25.3 12.8 38.3
91 28.9 10.7 32.1

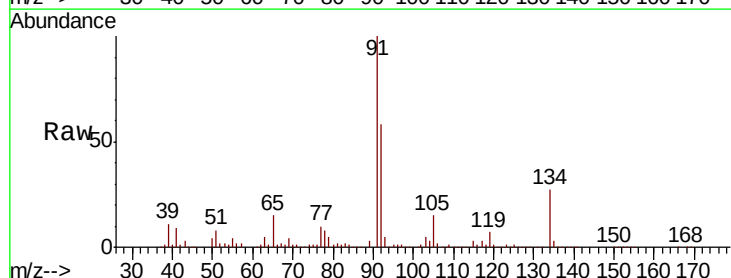


Abundance Ion 119.05 (118.75 to 119.75): V
Ion 134.10 (133.80 to 134.80): V
Ion 91.00 (90.70 to 91.70): V

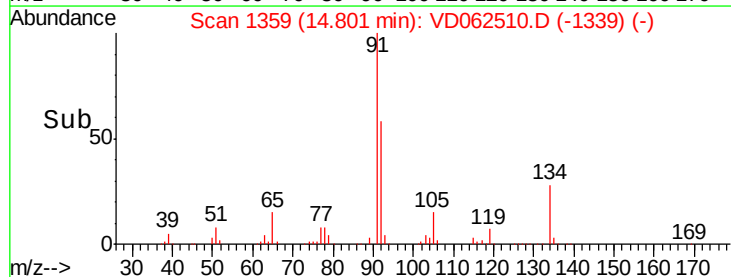
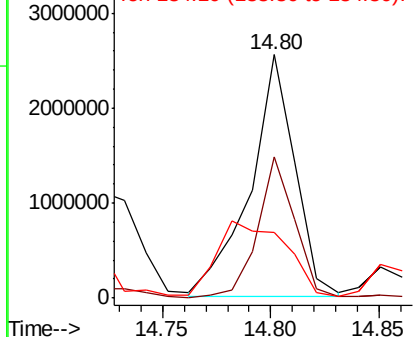


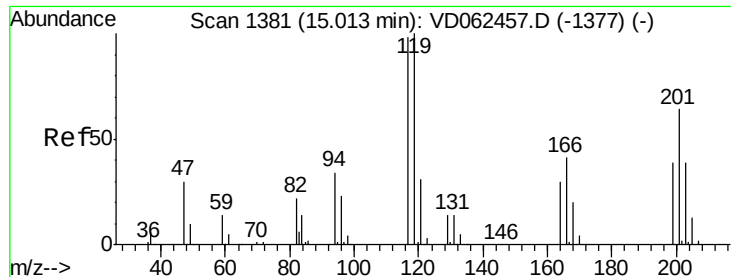
#89
n-Butylbenzene
Concen: 821.926 ug/l
RT: 14.80 min Scan# 1359
Delta R.T. -0.00 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

Tgt Ion: 91 Resp: 3678753
Ion Ratio Lower Upper
91 100
92 57.9 30.3 91.0
134 27.2 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: 1934.212 ug/l

RT: 15.10 min Scan# 1389

Delta R.T. 0.08 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

Instrument :

MSVOA_D

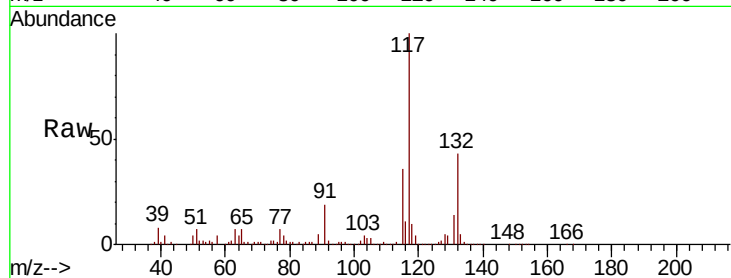
ClientSampled :

Tot Ion:117 Resp: 2479092

Ion Ratio Lower Upper

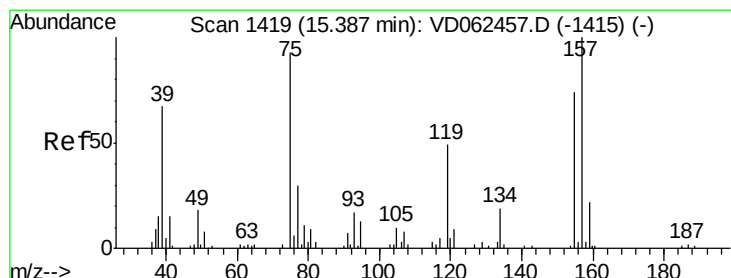
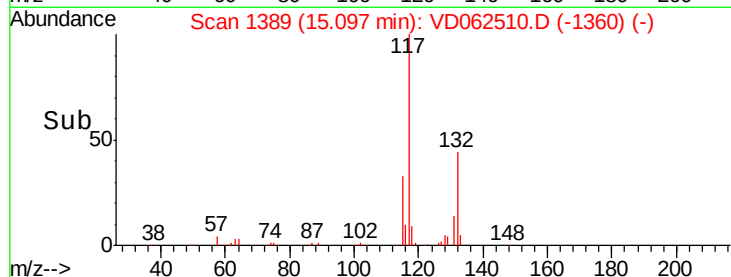
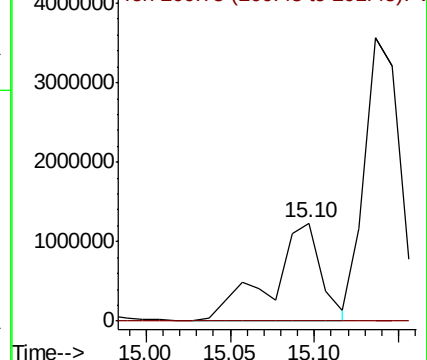
117 100

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: 26.167 ug/l

RT: 15.42 min Scan# 1422

Delta R.T. 0.03 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

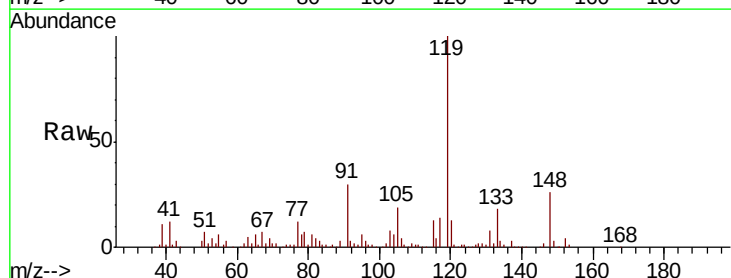
Tgt Ion: 75 Resp: 4579

Ion Ratio Lower Upper

75 100

155 0.0 55.3 165.8#

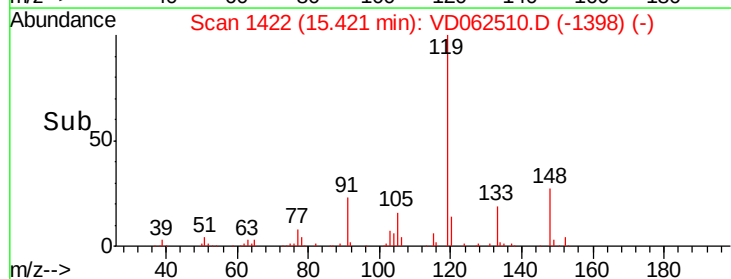
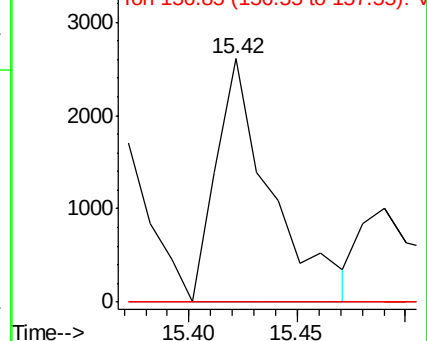
157 0.0 67.8 203.2#

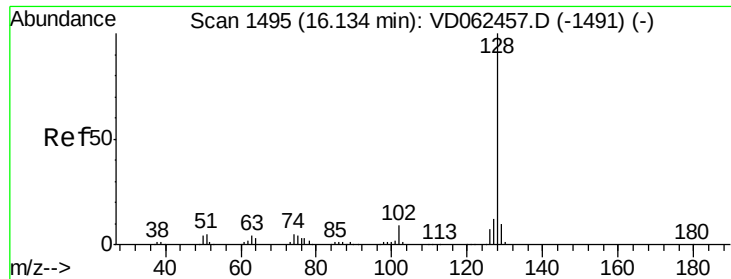


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

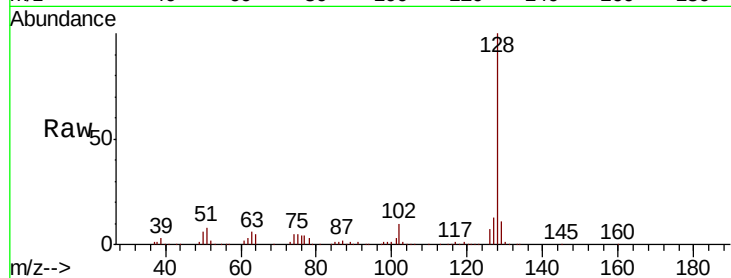




#95
 Naphthalene
 Concen: 200.628 ug/l
 RT: 16.11 min Scan# 1492
 Delta R.T. -0.02 min
 Lab File: VD062510.D
 Acq: 22 May 2019 18:35

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	9.8	14.8
129	10.5	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

