

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100218\
 Data File : VD060111.D
 Acq On : 2 Oct 2018 12:52
 Operator : VA/AP
 Sample : VD1002SBSD01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1002SBSD01

Quant Time: Oct 03 01:09:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 02 06:56:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.39	168	1585104	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.43	114	2262430	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.27	117	1836064	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.37	152	957015	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.77	65	633636	52.74	ug/l	0.00
Spiked Amount			Recovery	=	105.48%	
35) Dibromofluoromethane	6.30	113	885412	51.54	ug/l	0.00
Spiked Amount			Recovery	=	103.08%	
50) Toluene-d8	9.44	98	2491063	50.85	ug/l	0.00
Spiked Amount			Recovery	=	101.70%	
62) 4-Bromofluorobenzene	12.42	95	942128	51.36	ug/l	0.00
Spiked Amount			Recovery	=	102.72%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	274899	18.436	ug/l	99
3) Chloromethane	1.74	50	296632	22.062	ug/l	97
4) Vinyl Chloride	1.84	62	230492	20.948	ug/l	98
5) Bromomethane	2.12	94	22916	16.586	ug/l	89
6) Chloroethane	2.22	64	51097	17.017	ug/l	100
7) Trichlorofluoromethane	2.48	101	259543	19.700	ug/l	99
8) Diethyl Ether	2.81	74	54932	20.276	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.07	101	169703	20.676	ug/l	95
10) Methyl Iodide	3.22	142	152042	17.468	ug/l	99
11) Tert butyl alcohol	3.95	59	86180	100.009	ug/l	99
12) 1,1-Dichloroethene	3.05	96	134848	20.855	ug/l	97
13) Acrolein	2.97	56	58580	110.277	ug/l	95
14) Allyl chloride	3.51	41	283182	21.087	ug/l	98
15) Acrylonitrile	4.06	53	367450	103.020	ug/l	97
16) Acetone	3.15	43	238233	109.270	ug/l	97
17) Carbon Disulfide	3.29	76	451035	20.743	ug/l	100
18) Methyl Acetate	3.53	43	89369	19.071	ug/l	96
19) Methyl tert-butyl Ether	4.10	73	577694	20.320	ug/l	98
20) Methylene Chloride	3.70	84	387888	20.024	ug/l	98
21) trans-1,2-Dichloroethene	4.07	96	345391	20.682	ug/l	97
22) Diisopropyl ether	4.84	45	1287523	21.468	ug/l	97
23) Vinyl Acetate	4.79	43	3636403	107.866	ug/l	99
24) 1,1-Dichloroethane	4.73	63	564959	20.776	ug/l	99
25) 2-Butanone	5.61	43	578687	106.245	ug/l	97
26) 2,2-Dichloropropane	5.57	77	435579	21.129	ug/l	95
27) cis-1,2-Dichloroethene	5.58	96	368719	20.839	ug/l	93
28) Bromochloromethane	5.91	49	261478	19.787	ug/l	93
29) Tetrahydrofuran	5.94	42	315502	99.724	ug/l	99
30) Chloroform	6.09	83	583889	21.227	ug/l	97
31) Cyclohexane	6.34	56	525364	20.182	ug/l	98
32) 1,1,1-Trichloroethane	6.27	97	471417	20.918	ug/l	100
36) 1,1-Dichloropropene	6.50	75	434487	20.097	ug/l	96
37) Ethyl Acetate	5.68	43	284987	19.859	ug/l	98
38) Carbon Tetrachloride	6.48	117	387484	19.747	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.03	83	504401	20.534	ug/l	100
40) Benzene	6.78	78	1127722	19.939	ug/l	100
41) Methacrylonitrile	5.94	41	323390	39.870	ug/l #	89
42) 1,2-Dichloroethane	6.88	62	324597	20.017	ug/l	99
43) Isopropyl Acetate	8.34	43	373538	19.786	ug/l #	99
44) Trichloroethene	7.72	130	342555	19.565	ug/l	99
45) 1,2-Dichloropropane	8.09	63	295505	19.953	ug/l	98
46) Dibromomethane	8.20	93	189625	19.777	ug/l	97
47) Bromodichloromethane	8.48	83	414713	20.300	ug/l	100
48) Methyl methacrylate	8.23	41	219162	20.380	ug/l	95
49) 1,4-Dioxane	8.22	88	43343	409.631	ug/l	94
51) 4-Methyl-2-Pentanone	9.34	43	1200516	100.818	ug/l	97
52) Toluene	9.54	92	730539	20.055	ug/l	99
53) t-1,3-Dichloropropene	9.91	75	376917	20.390	ug/l	98
54) cis-1,3-Dichloropropene	9.09	75	465341	20.385	ug/l	99
55) 1,1,2-Trichloroethane	10.17	97	238272	20.009	ug/l	97
56) Ethyl methacrylate	10.02	69	261569	19.898	ug/l	99
57) 1,3-Dichloropropane	10.37	76	353218	19.448	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.91	63	737229	100.996	ug/l	98
59) 2-Hexanone	10.48	43	890886	104.044	ug/l	98
60) Dibromochloromethane	10.63	129	290939	19.913	ug/l	96
61) 1,2-Dibromoethane	10.75	107	251710	19.893	ug/l	99
64) Tetrachloroethene	10.24	164	325323	20.230	ug/l	96
65) Chlorobenzene	11.30	112	794927	20.013	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.41	131	280631	21.178	ug/l	99
67) Ethyl Benzene	11.42	91	1410885	21.923	ug/l	100
68) m/p-Xylenes	11.56	106	1044187	43.426	ug/l	97
69) o-Xylene	11.92	106	483410	20.325	ug/l	89
70) Styrene	11.95	104	829080	20.845	ug/l	99
71) Bromoform	12.11	173	207813	19.368	ug/l	99
73) Isopropylbenzene	12.27	105	1344751	21.299	ug/l	97
74) N-amyl acetate	12.13	43	471814	20.402	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.55	83	274868	19.942	ug/l	98
76) 1,2,3-Trichloropropane	12.59	75	282142	20.471	ug/l	98
77) Bromobenzene	12.53	156	372242	20.289	ug/l	94
78) n-propylbenzene	12.63	91	1704994	21.748	ug/l	98
79) 2-Chlorotoluene	12.70	91	924423	21.246	ug/l	99
80) 1,3,5-Trimethylbenzene	12.79	105	1044748	21.380	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.34	75	77076	19.903	ug/l	98
82) 4-Chlorotoluene	12.80	91	1078075	21.906	ug/l	91
83) tert-Butylbenzene	13.05	119	1181871	21.077	ug/l	95
84) 1,2,4-Trimethylbenzene	13.08	105	1064819	20.676	ug/l	96
85) sec-Butylbenzene	13.21	105	1429388	21.559	ug/l	97
86) p-Isopropyltoluene	13.34	119	1130308	20.785	ug/l	97
87) 1,3-Dichlorobenzene	13.31	146	648980	20.303	ug/l	97
88) 1,4-Dichlorobenzene	13.39	146	660699	20.578	ug/l	97
89) n-Butylbenzene	13.65	91	1186712	22.365	ug/l	99
90) Hexachloroethane	13.85	117	266747	21.195	ug/l	89
91) 1,2-Dichlorobenzene	13.66	146	589688	21.940	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.23	75	37232	20.230	ug/l	87

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Quant Title : SW846 8260
QLast Update : Tue Oct 02 06:56:35 2018
Response via : Initial Calibration

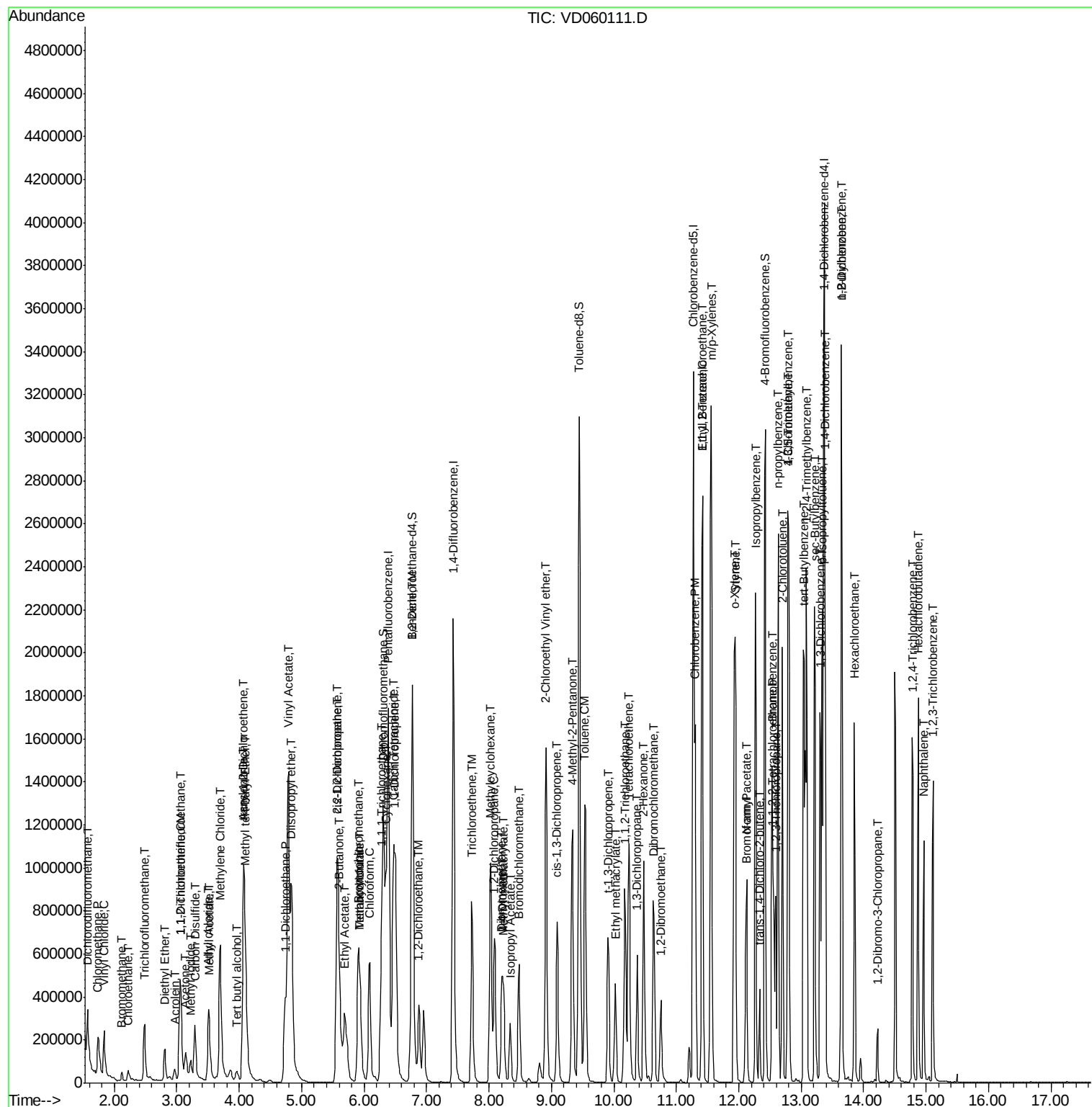
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.79	180	474710	20.809	ug/l	94
94) Hexachlorobutadiene	14.88	225	308520	20.345	ug/l	98
95) Naphthalene	14.96	128	690277	20.413	ug/l	99
96) 1,2,3-Trichlorobenzene	15.11	180	406595	20.488	ug/l	98

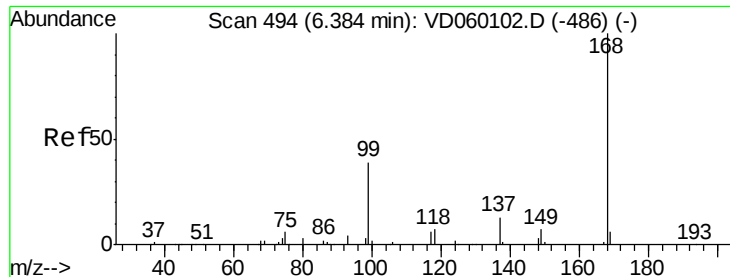
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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 Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.39 min Scan# 495

Delta R.T. 0.01 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

Instrument :

MSVOA_D

ClientSampleId :

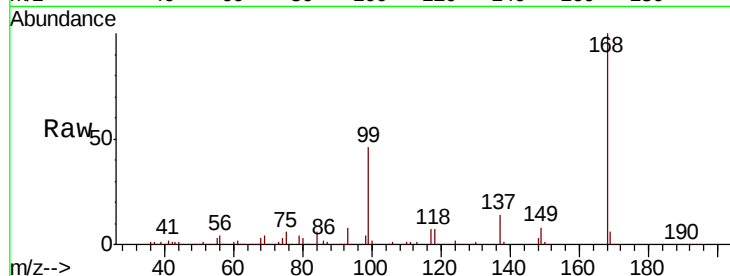
VD1002SBSD01

Tot Ion:168 Resp: 1585104

Ion Ratio Lower Upper

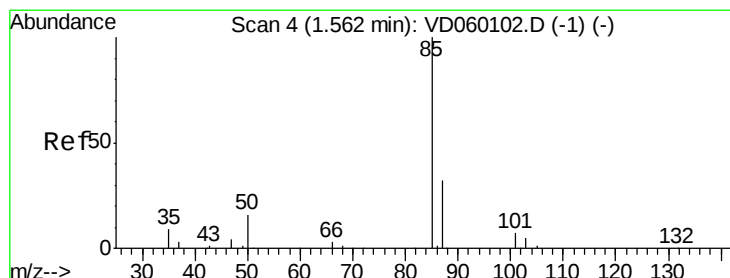
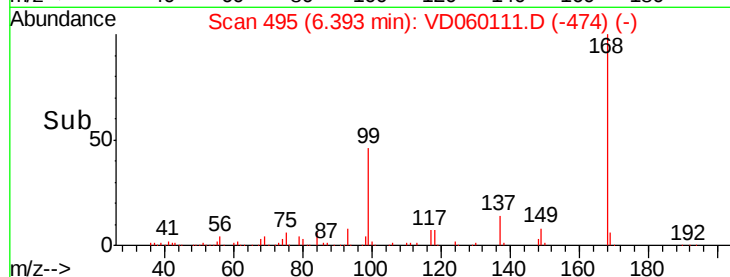
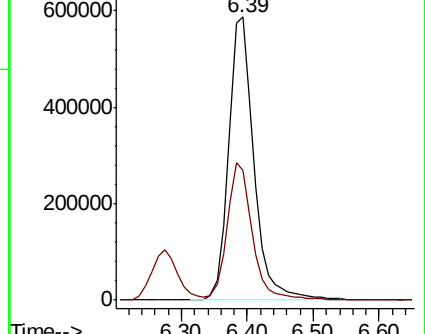
168 100

99 45.7 35.4 53.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 18.436 ug/l

RT: 1.57 min Scan# 5

Delta R.T. 0.01 min

Lab File: VD060111.D

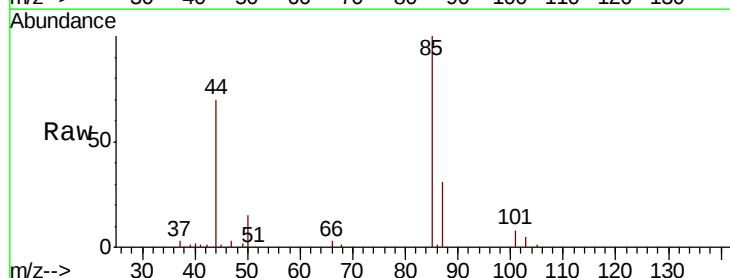
Acq: 2 Oct 2018 12:52

Tgt Ion: 85 Resp: 274899

Ion Ratio Lower Upper

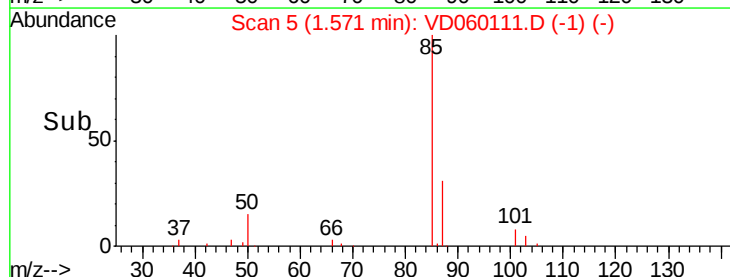
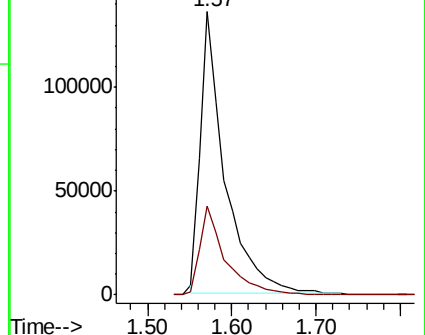
85 100

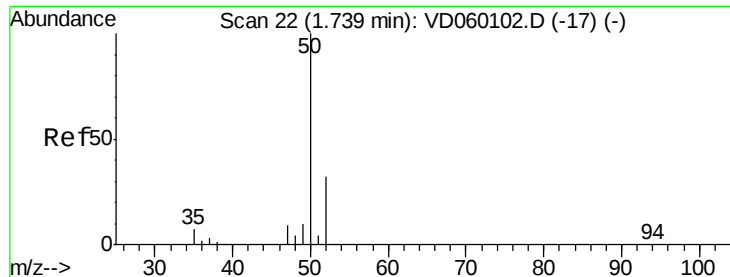
87 31.4 15.9 47.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 22.062 ug/l

RT: 1.74 min Scan# 22

Delta R.T. -0.00 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

Instrument :

MSVOA_D

ClientSampleId :

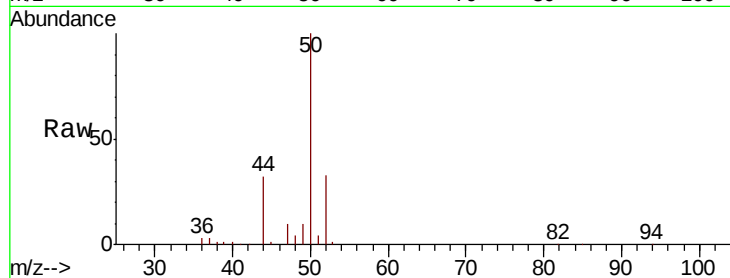
VD1002SBSD01

Tot Ion: 50 Resp: 296632

Ion Ratio Lower Upper

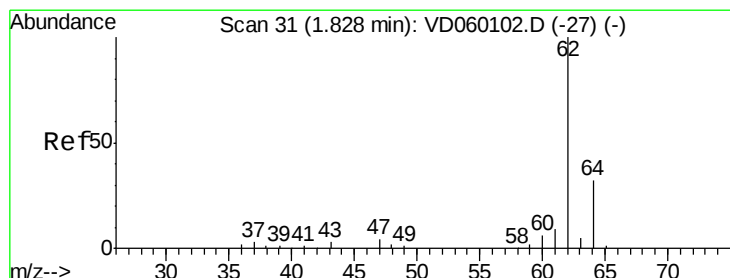
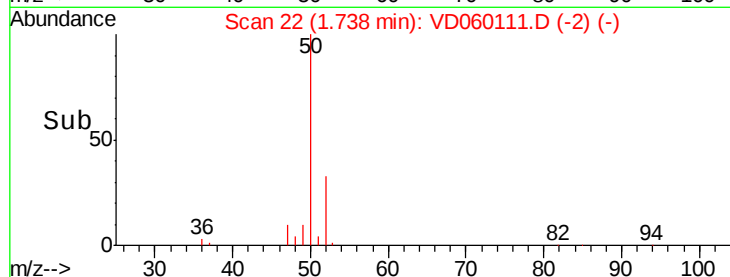
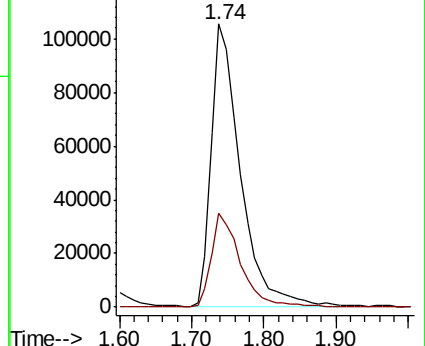
50 100

52 33.3 25.3 37.9



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 20.948 ug/l

RT: 1.84 min Scan# 32

Delta R.T. 0.01 min

Lab File: VD060111.D

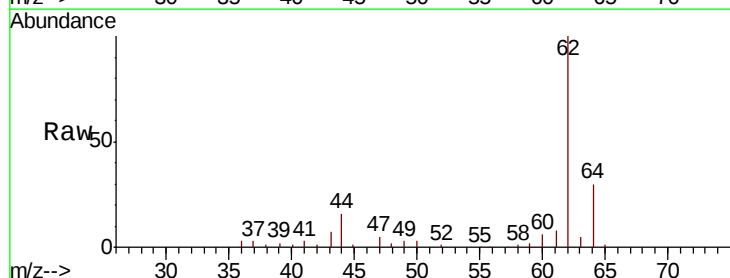
Acq: 2 Oct 2018 12:52

Tgt Ion: 62 Resp: 230492

Ion Ratio Lower Upper

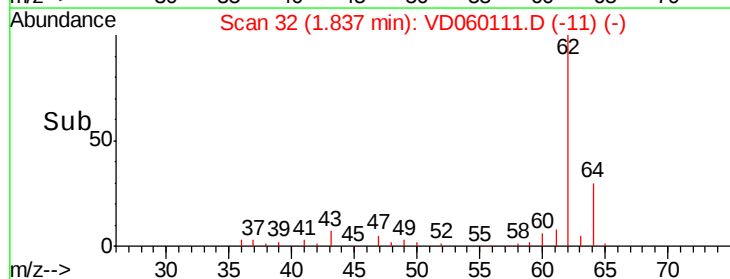
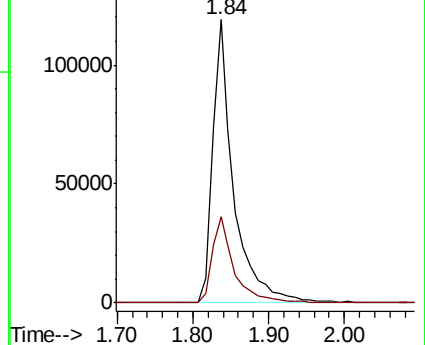
62 100

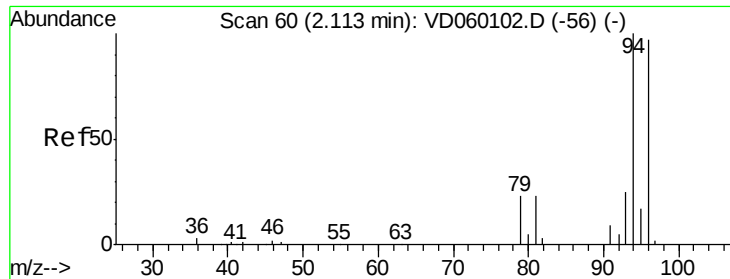
64 30.4 25.2 37.8



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 16.586 ug/l

RT: 2.12 min Scan# 61

Delta R.T. 0.01 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

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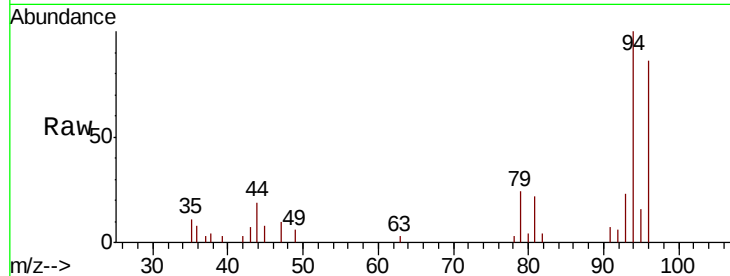
VD1002SBSD01

Tot Ion: 94 Resp: 22916

Ion Ratio Lower Upper

94 100

96 85.7 77.4 116.2



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.12

15000

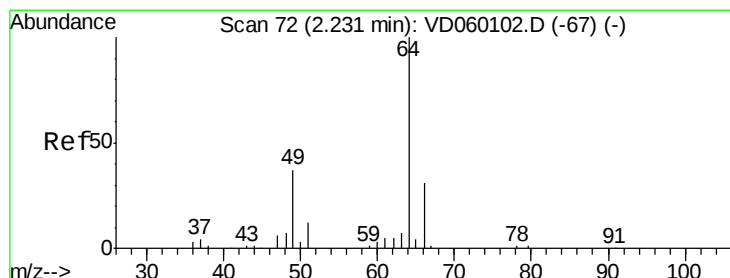
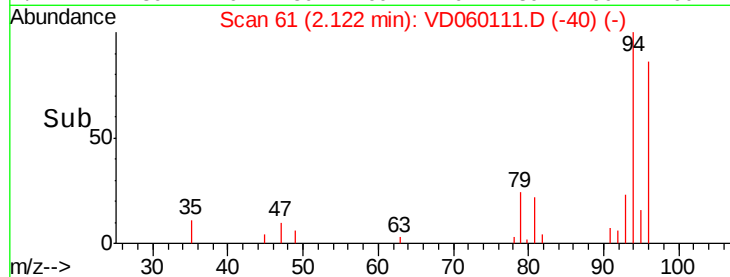
10000

5000

0

Time-->

2.05 2.10 2.15 2.20



#6

Chloroethane

Concen: 17.017 ug/l

RT: 2.22 min Scan# 71

Delta R.T. -0.01 min

Lab File: VD060111.D

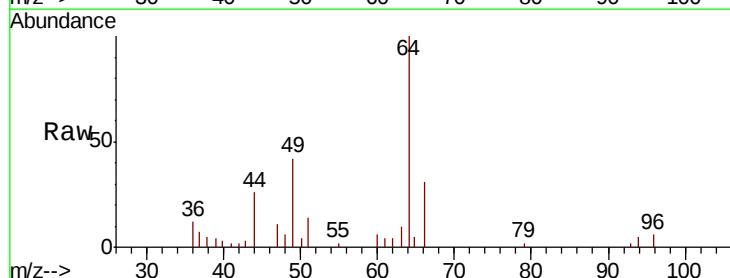
Acq: 2 Oct 2018 12:52

Tgt Ion: 64 Resp: 51097

Ion Ratio Lower Upper

64 100

66 30.5 24.6 37.0



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC

2.22

20000

15000

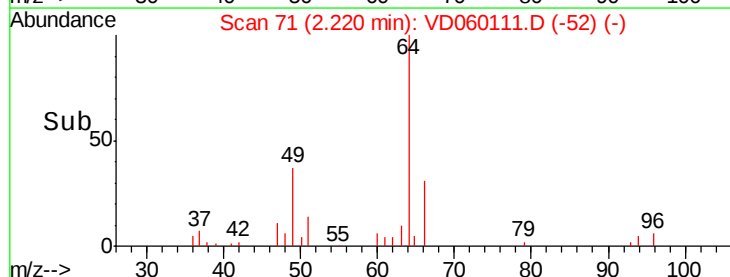
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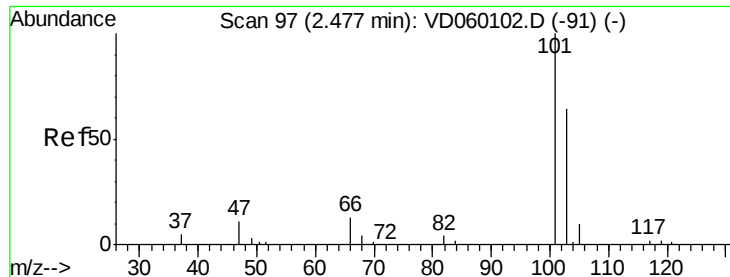
5000

0

Time-->

2.10 2.20 2.30 2.40





#7

Trichlorofluoromethane

Concen: 19.700 ug/l

RT: 2.48 min Scan# 97

Delta R.T. -0.00 min

Lab File: VD060111.D

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ClientSampleId :

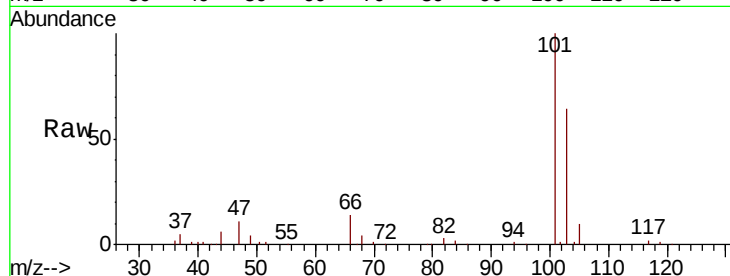
VD1002SBSD01

Tot Ion:101 Resp: 259543

Ion Ratio Lower Upper

101 100

103 63.7 51.5 77.3



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 102.85 (102.55 to 103.55): V

2.48

120000

100000

80000

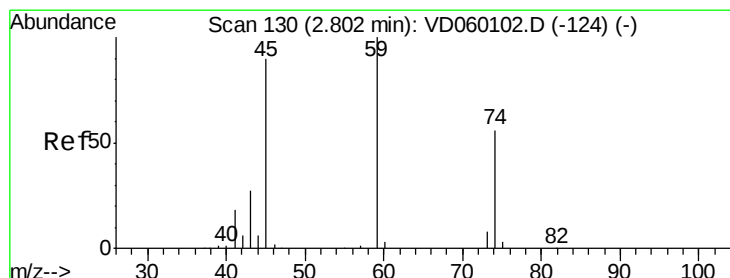
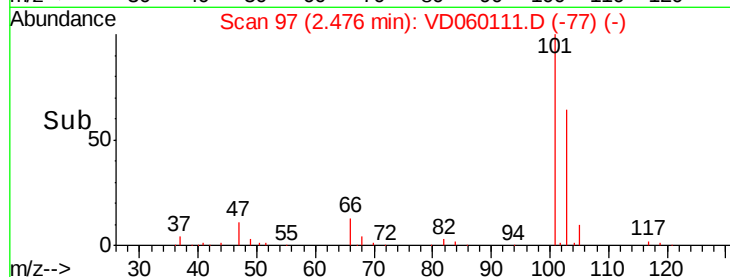
60000

40000

20000

0

Time-->



#8

Diethyl Ether

Concen: 20.276 ug/l

RT: 2.81 min Scan# 131

Delta R.T. 0.01 min

Lab File: VD060111.D

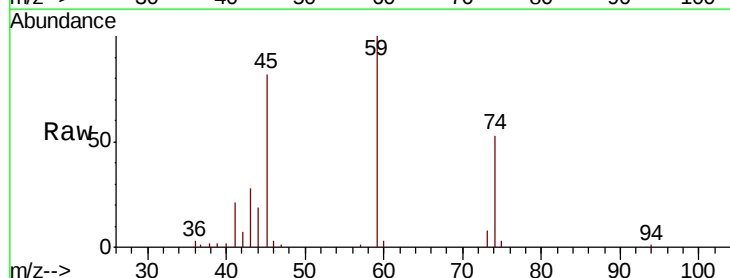
Acq: 2 Oct 2018 12:52

Tgt Ion: 74 Resp: 54932

Ion Ratio Lower Upper

74 100

45 153.4 80.3 241.0



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

2.81

40000

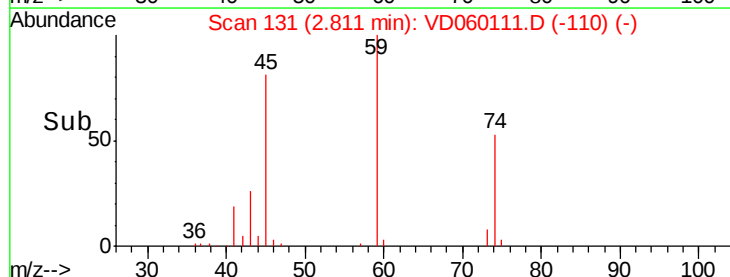
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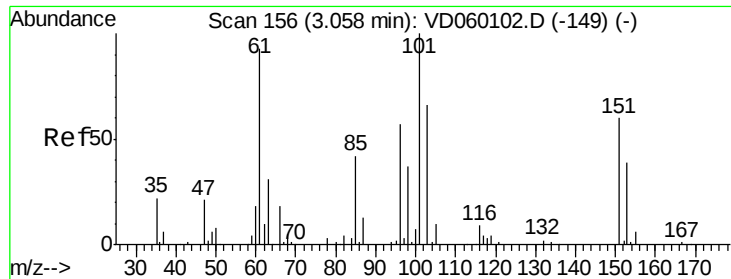
20000

10000

0

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.676 ug/l

RT: 3.07 min Scan# 157

Delta R.T. 0.01 min

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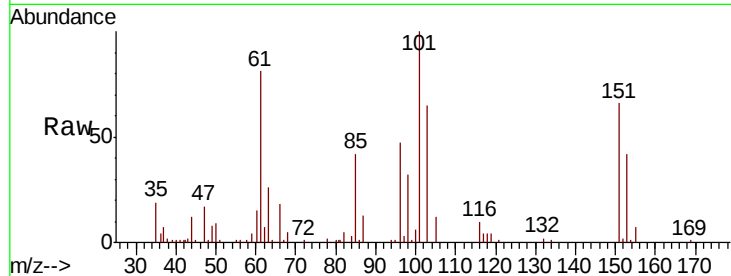
Tot Ion:101 Resp: 169703

Ion Ratio Lower Upper

101 100

85 42.4 33.4 50.0

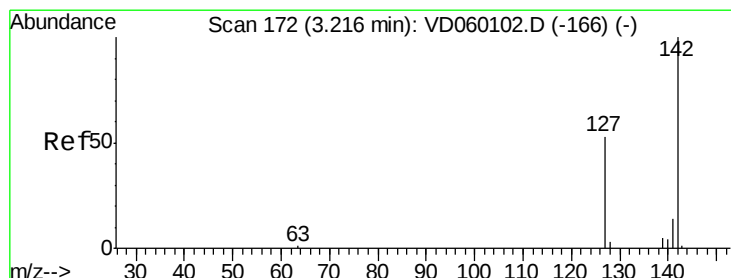
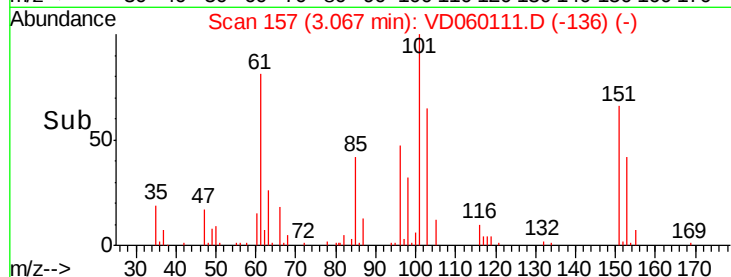
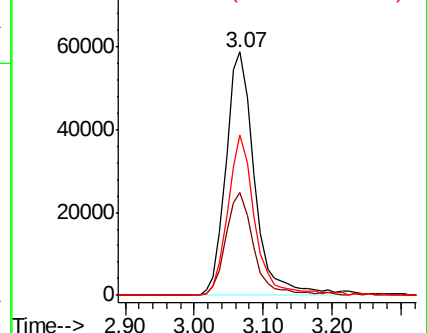
151 65.9 48.0 72.0



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 17.468 ug/l

RT: 3.22 min Scan# 173

Delta R.T. 0.01 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

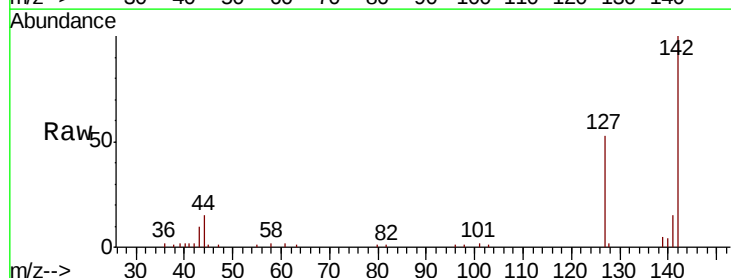
Tgt Ion:142 Resp: 152042

Ion Ratio Lower Upper

142 100

127 52.7 42.0 63.0

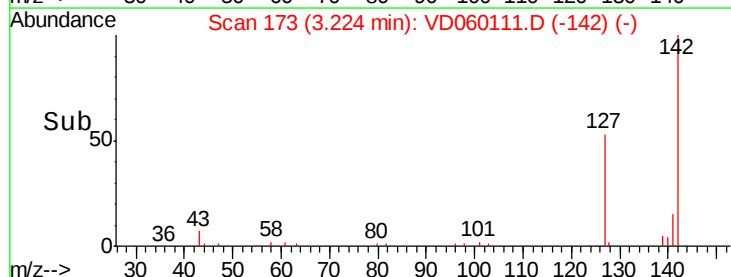
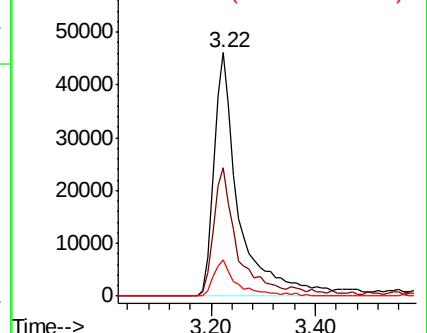
141 14.9 11.4 17.0

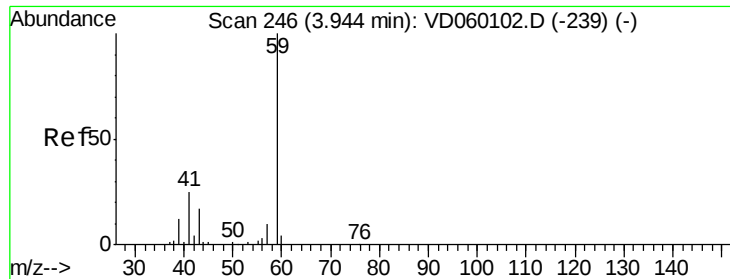


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

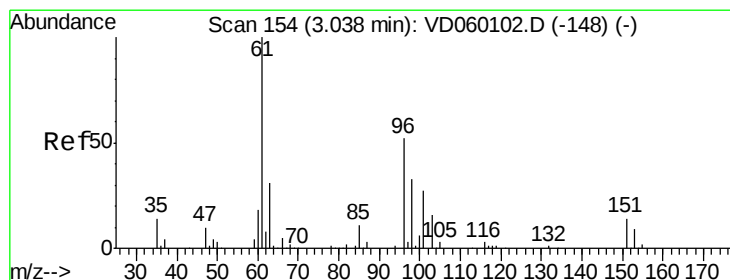
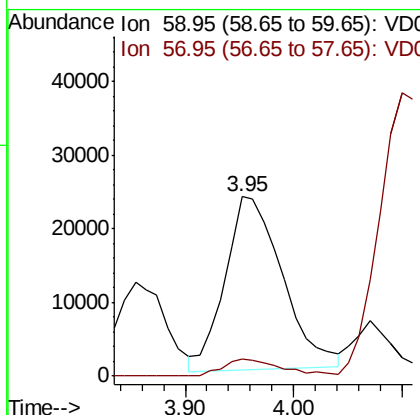
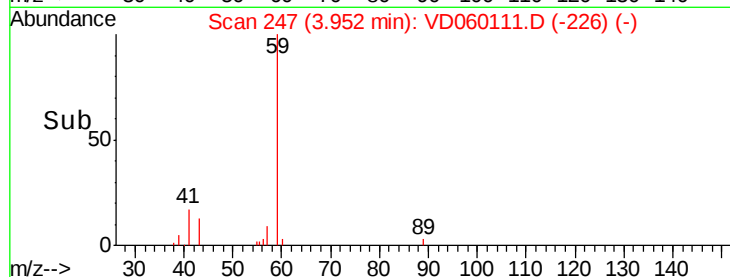
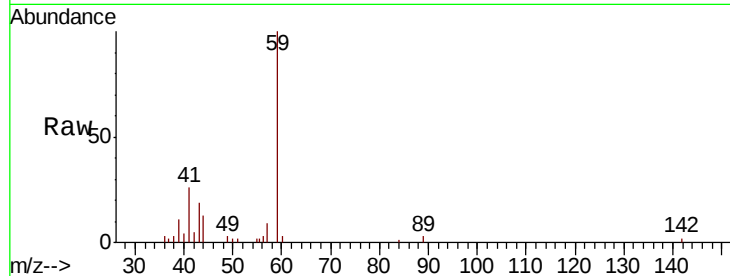




#11
Tert butyl alcohol
Concen: 100.009 ug/l
RT: 3.95 min Scan# 247
Delta R.T. 0.01 min
Lab File: VD060111.D
Acq: 2 Oct 2018 12:52

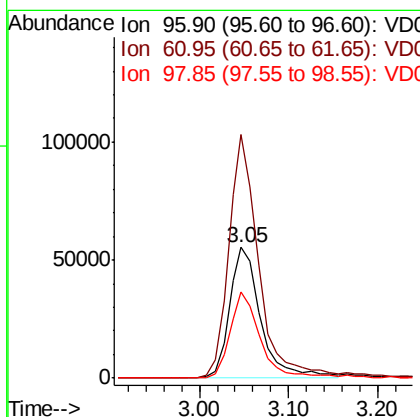
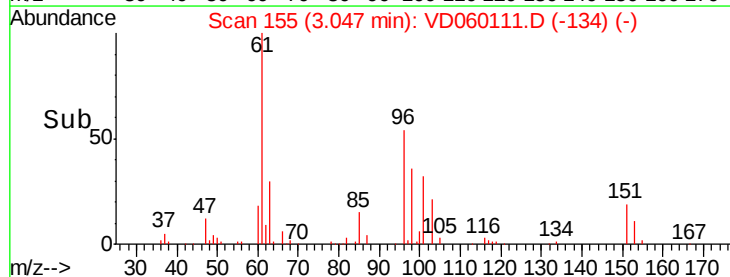
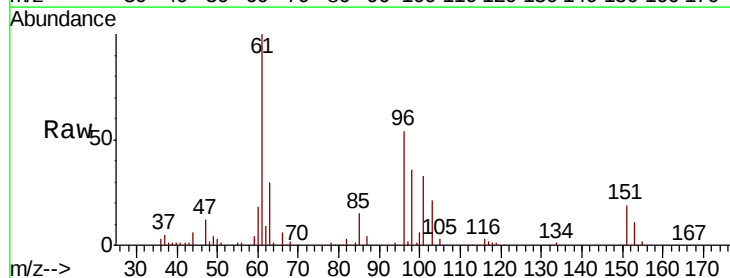
Instrument :
MSVOA_D
ClientSampleId :
VD1002SBSD01

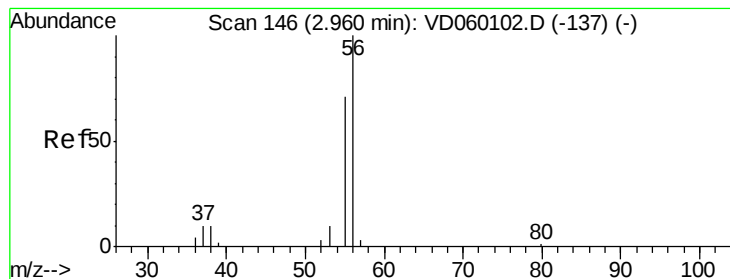
Tot Ion: 59 Resp: 86180
Ion Ratio Lower Upper
59 100
57 9.3 7.8 11.6



#12
1,1-Dichloroethene
Concen: 20.855 ug/l
RT: 3.05 min Scan# 155
Delta R.T. 0.01 min
Lab File: VD060111.D
Acq: 2 Oct 2018 12:52

Tgt Ion: 96 Resp: 134848
Ion Ratio Lower Upper
96 100
61 186.2 153.0 229.4
98 66.1 51.1 76.7





#13

Acrolein

Concen: 110.277 ug/l

RT: 2.97 min Scan# 147

Delta R.T. 0.01 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

Instrument :

MSVOA_D

ClientSampleId :

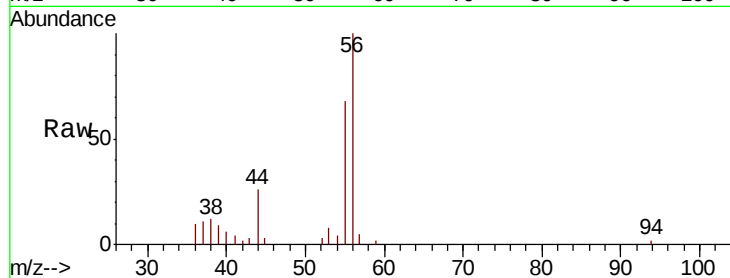
VD1002SBSD01

Tot Ion: 56 Resp: 58580

Ion Ratio Lower Upper

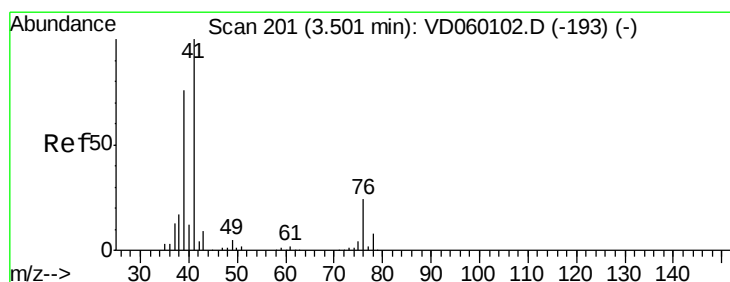
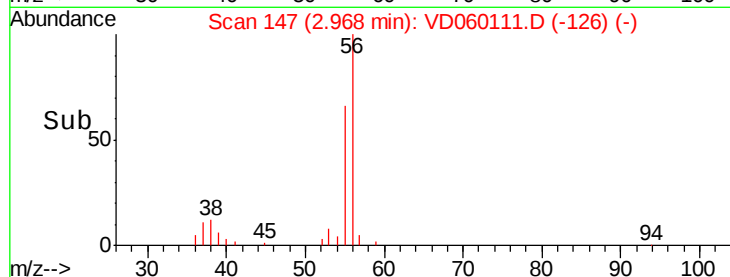
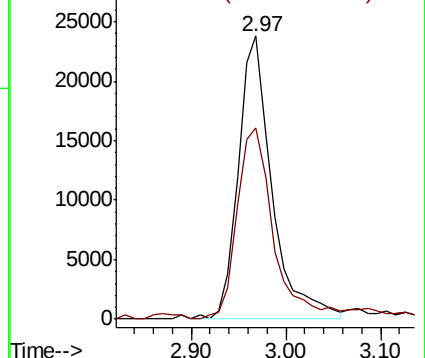
56 100

55 67.8 57.4 86.2



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 21.087 ug/l

RT: 3.51 min Scan# 202

Delta R.T. 0.01 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

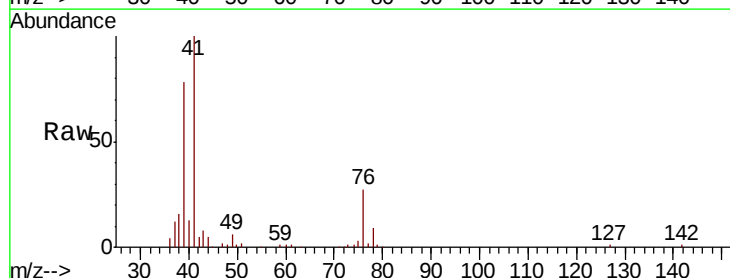
Tgt Ion: 41 Resp: 283182

Ion Ratio Lower Upper

41 100

39 78.1 60.6 90.8

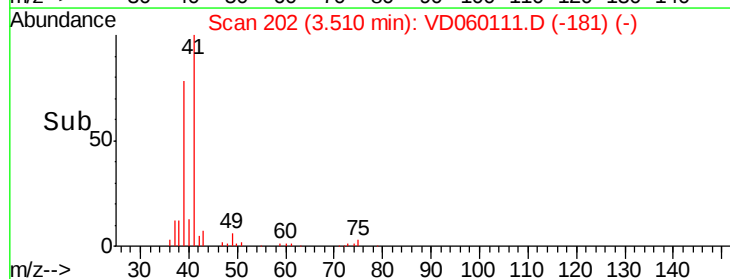
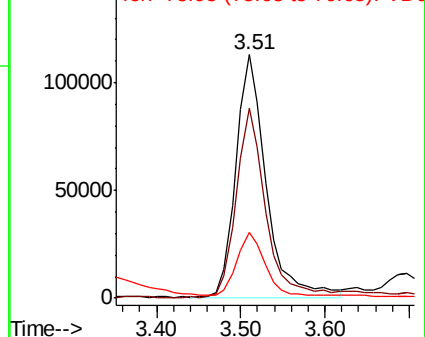
76 26.9 21.3 31.9

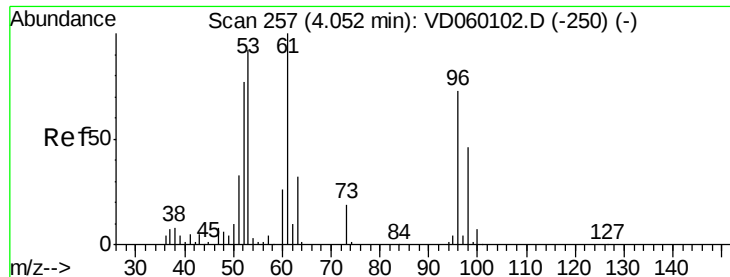


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 103.020 ug/l

RT: 4.06 min Scan# 258

Delta R.T. 0.01 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

Instrument :

MSVOA_D

ClientSampleId :

VD1002SBSD01

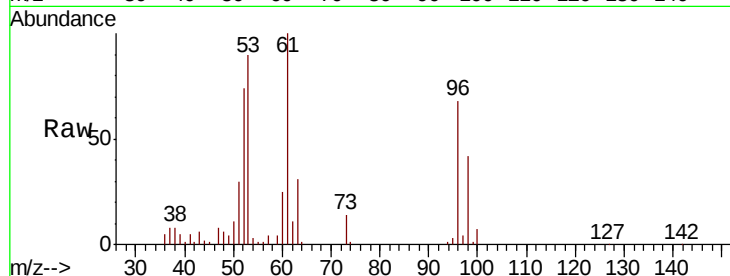
Tot Ion: 53 Resp: 367450

Ion Ratio Lower Upper

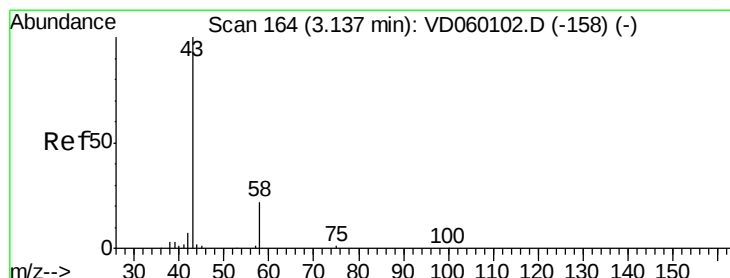
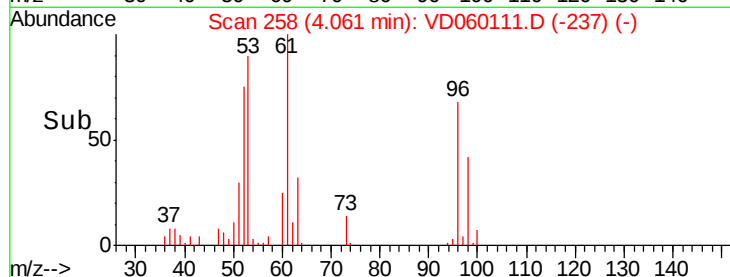
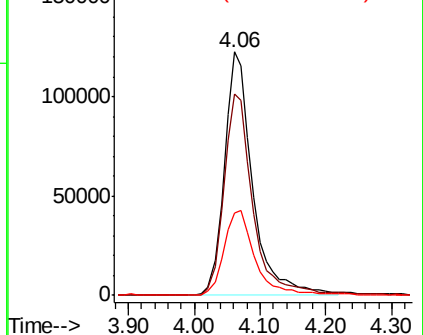
53 100

52 82.6 67.5 101.3

51 33.8 29.3 43.9



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: 109.270 ug/l

RT: 3.15 min Scan# 165

Delta R.T. 0.01 min

Lab File: VD060111.D

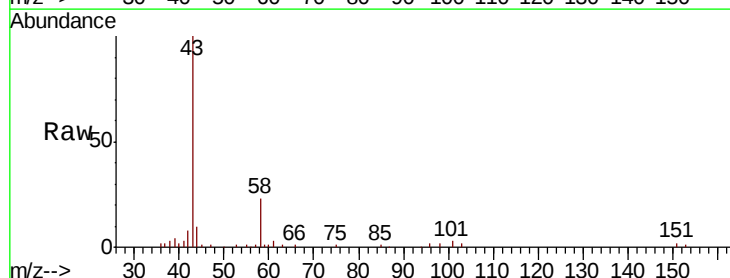
Acq: 2 Oct 2018 12:52

Tgt Ion: 43 Resp: 238233

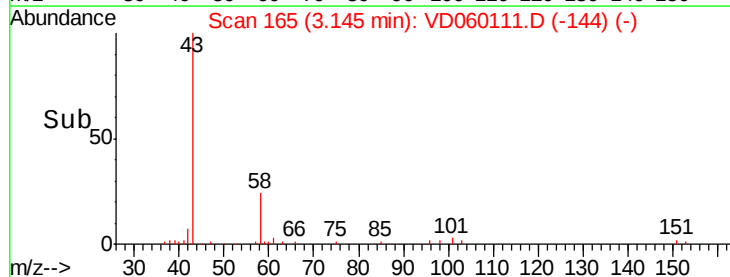
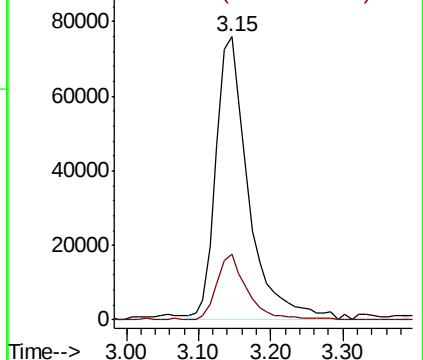
Ion Ratio Lower Upper

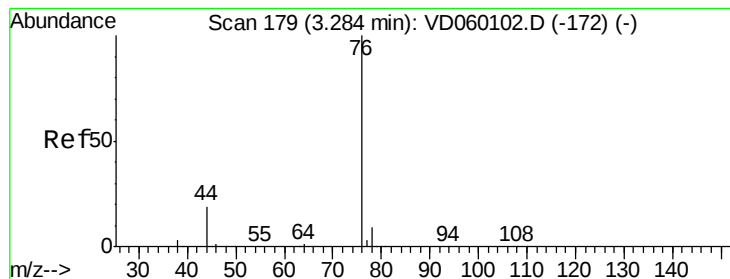
43 100

58 23.3 17.7 26.5



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





#17

Carbon Disulfide

Concen: 20.743 ug/l

RT: 3.29 min Scan# 180

Delta R.T. 0.01 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

Instrument :

MSVOA_D

ClientSampleId :

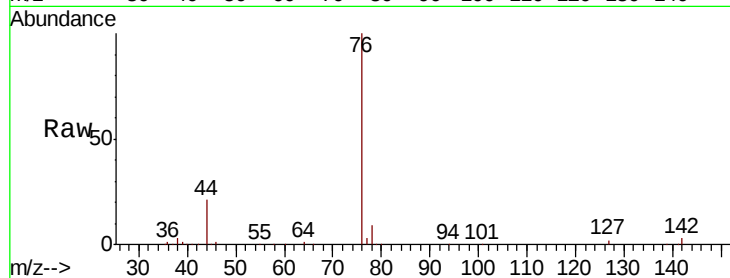
VD1002SBSD01

Tot Ion: 76 Resp: 451035

Ion Ratio Lower Upper

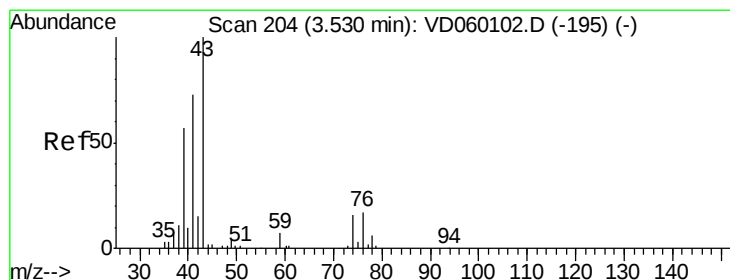
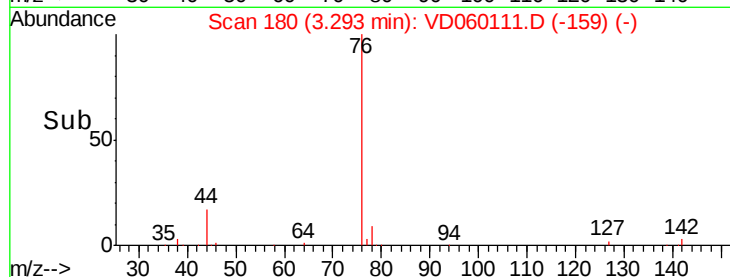
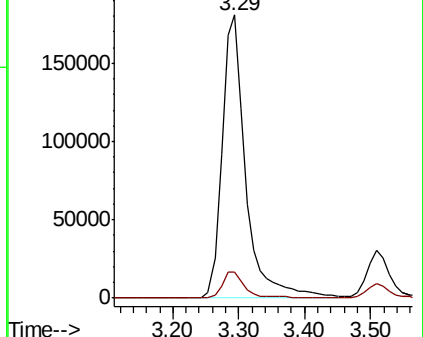
76 100

78 9.3 7.4 11.2



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 19.071 ug/l

RT: 3.53 min Scan# 204

Delta R.T. -0.00 min

Lab File: VD060111.D

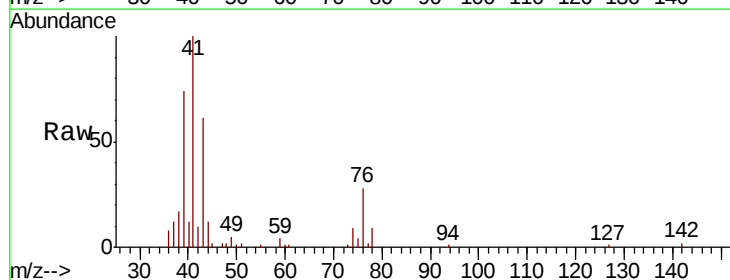
Acq: 2 Oct 2018 12:52

Tgt Ion: 43 Resp: 89369

Ion Ratio Lower Upper

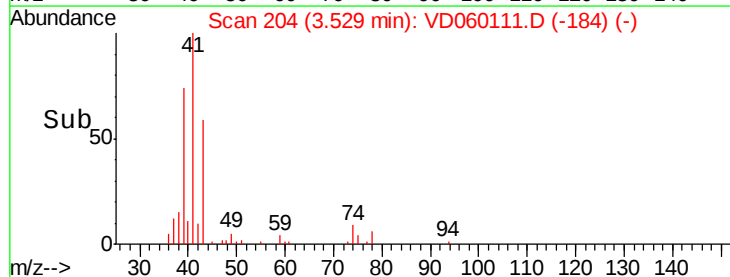
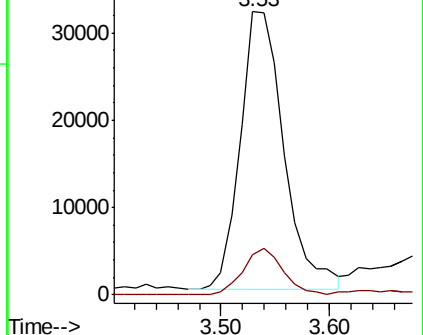
43 100

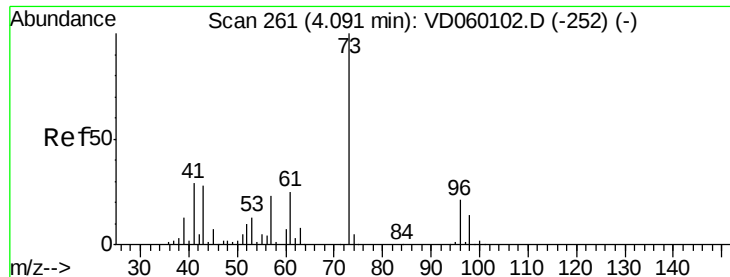
74 14.0 12.6 19.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

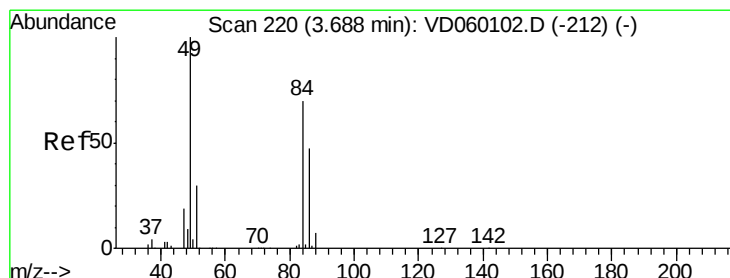
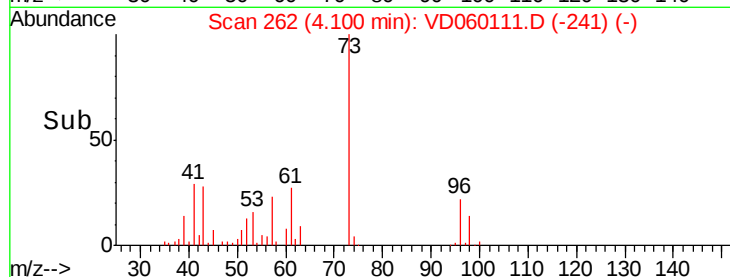
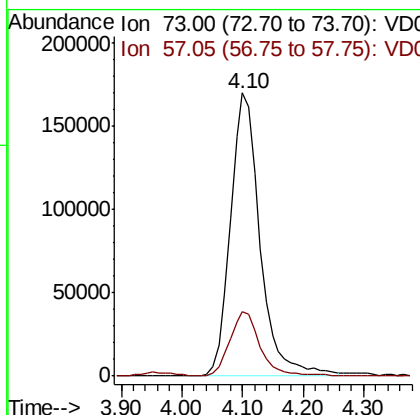
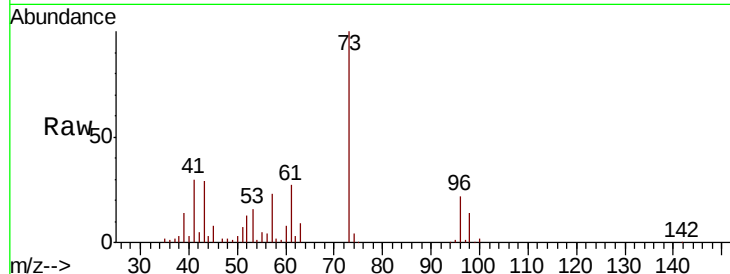




#19
Methyl tert-butyl Ether
Concen: 20.320 ug/l
RT: 4.10 min Scan# 262
Delta R.T. 0.01 min
Lab File: VD060111.D
Acq: 2 Oct 2018 12:52

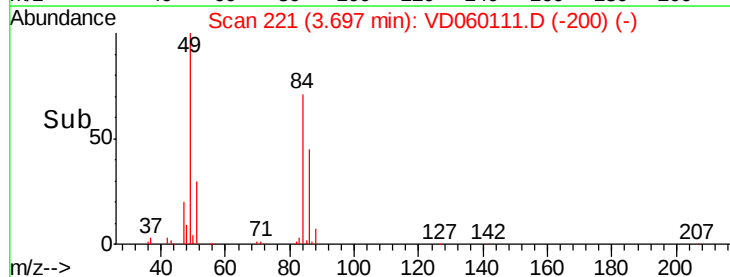
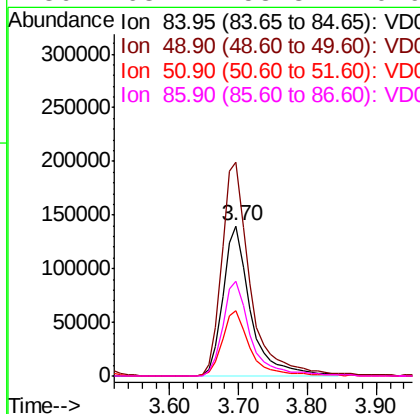
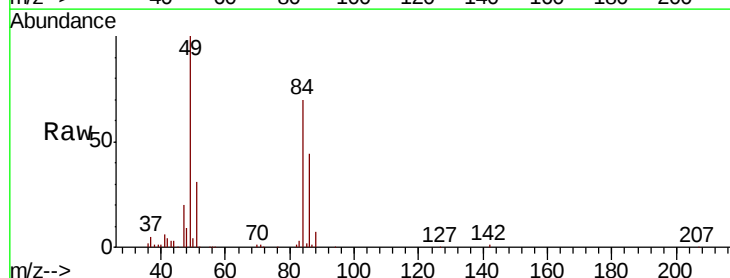
Instrument :
MSVOA_D
ClientSampleId :
VD1002SBS01

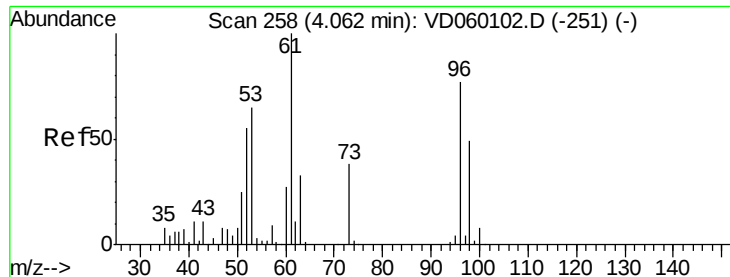
Tot Ion: 73 Resp: 577694
Ion Ratio Lower Upper
73 100
57 22.6 18.7 28.1



#20
Methylene Chloride
Concen: 20.024 ug/l
RT: 3.70 min Scan# 221
Delta R.T. 0.01 min
Lab File: VD060111.D
Acq: 2 Oct 2018 12:52

Tgt Ion: 84 Resp: 387888
Ion Ratio Lower Upper
84 100
49 142.4 114.6 172.0
51 43.4 33.8 50.8
86 63.1 53.3 79.9





#21

trans-1,2-Dichloroethene

Concen: 20.682 ug/l

RT: 4.07 min Scan# 259

Delta R.T. 0.01 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

Instrument :

MSVOA_D

ClientSampleId :

VD1002SBSD01

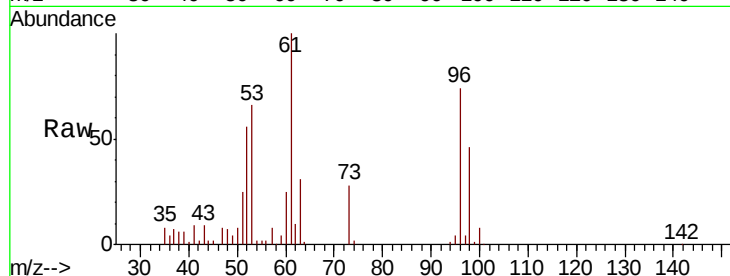
Tot Ion: 96 Resp: 345391

Ion Ratio Lower Upper

96 100

61 134.3 103.3 154.9

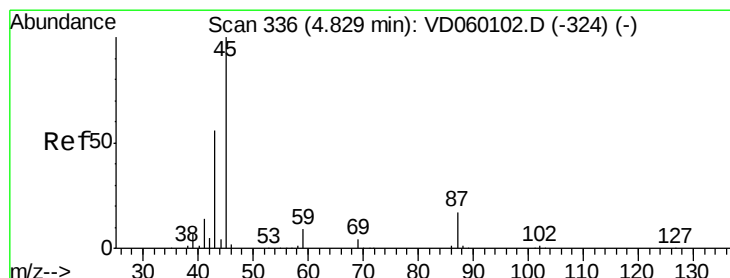
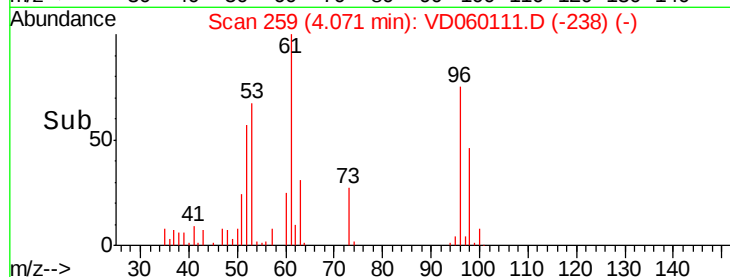
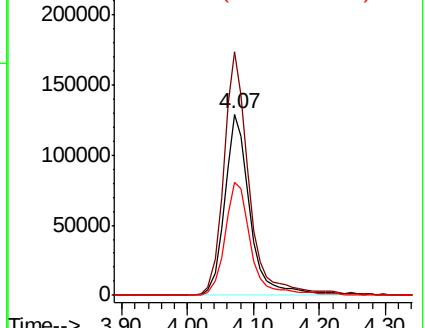
98 62.2 50.4 75.6



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 21.468 ug/l

RT: 4.84 min Scan# 337

Delta R.T. 0.01 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

Tgt Ion: 45 Resp: 1287523

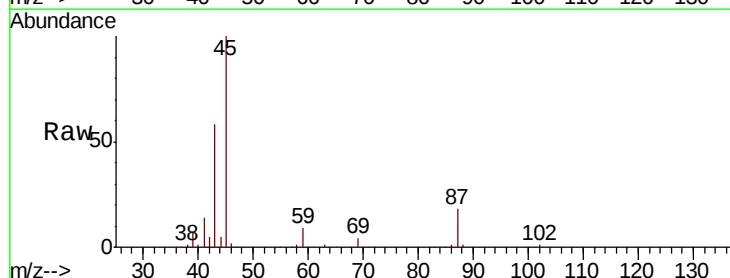
Ion Ratio Lower Upper

45 100

43 58.4 44.8 67.2

87 17.8 13.9 20.9

59 8.7 7.1 10.7

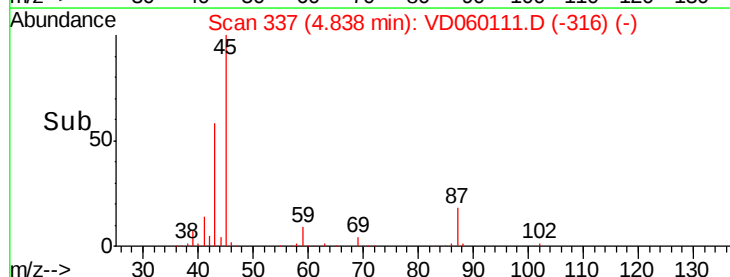
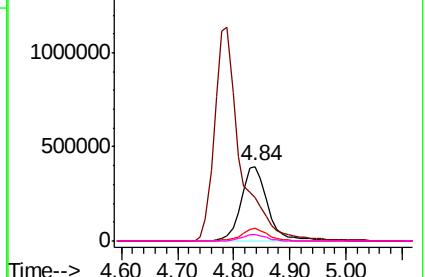


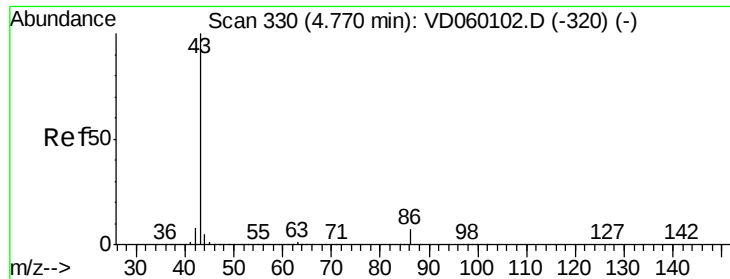
Abundance Ion 45.05 (44.75 to 45.75): VDC

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





#23

Vinyl Acetate

Concen: 107.866 ug/l

RT: 4.79 min Scan# 332

Delta R.T. 0.02 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

Instrument :

MSVOA_D

ClientSampleId :

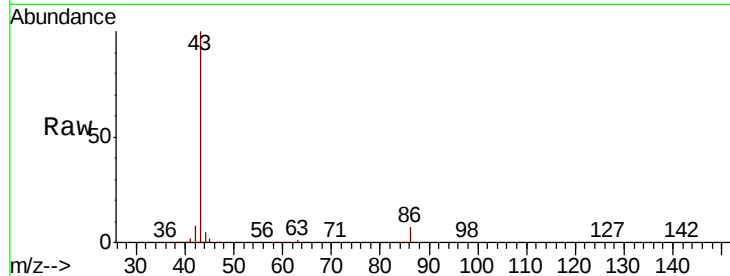
VD1002SBSD01

Tot Ion: 43 Resp: 3636403

Ion Ratio Lower Upper

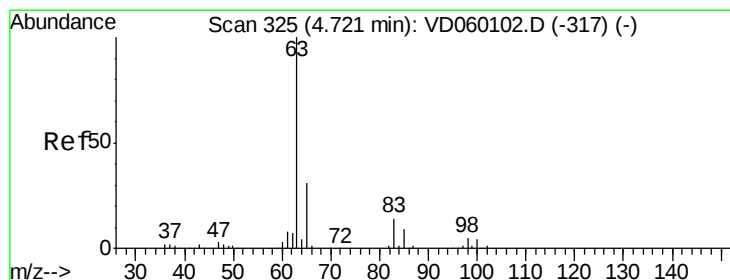
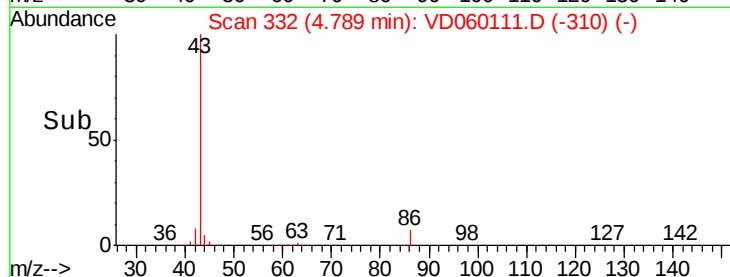
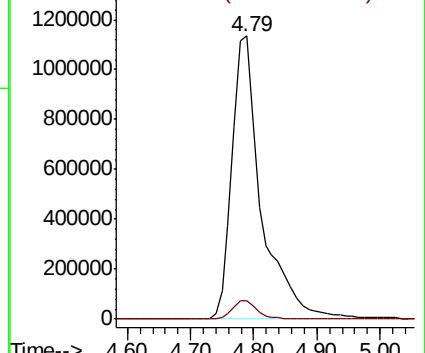
43 100

86 6.5 5.6 8.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 20.776 ug/l

RT: 4.73 min Scan# 326

Delta R.T. 0.01 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

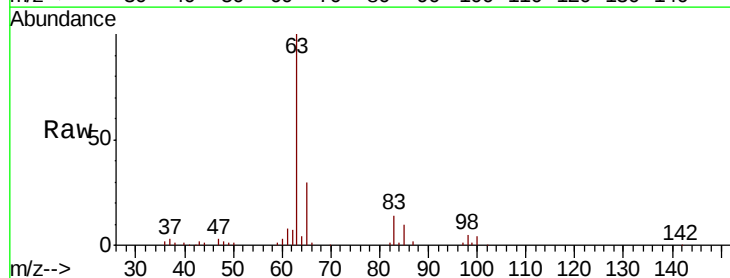
Tgt Ion: 63 Resp: 564959

Ion Ratio Lower Upper

63 100

98 5.3 2.8 8.3

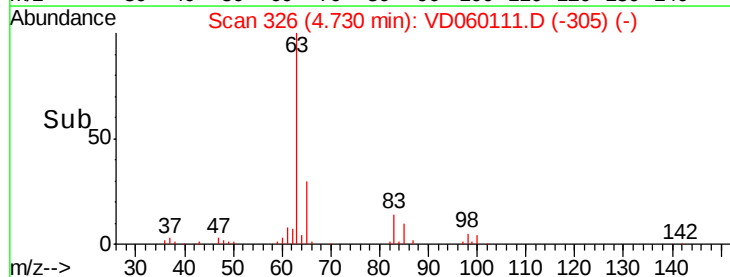
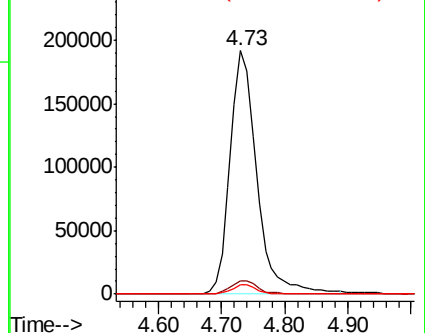
100 3.7 1.8 5.3

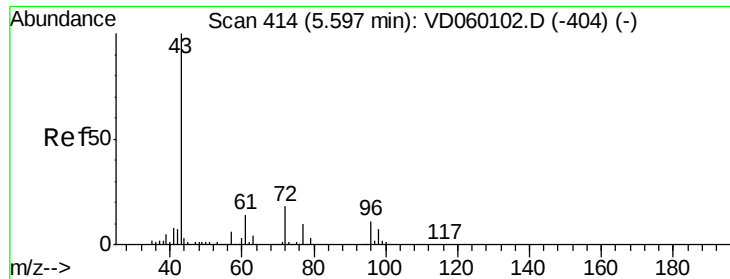


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 106.245 ug/l

RT: 5.61 min Scan# 415

Delta R.T. 0.01 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

Instrument :

MSVOA_D

ClientSampleId :

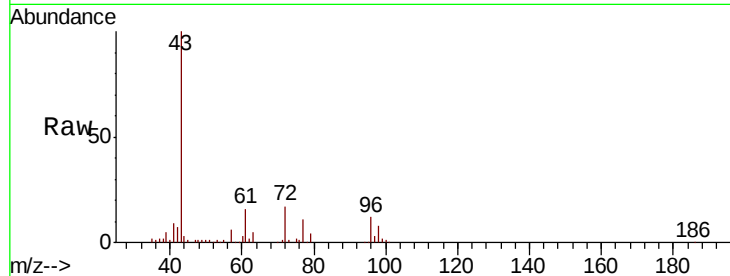
VD1002SBS01

Tot Ion: 43 Resp: 578687

Ion Ratio Lower Upper

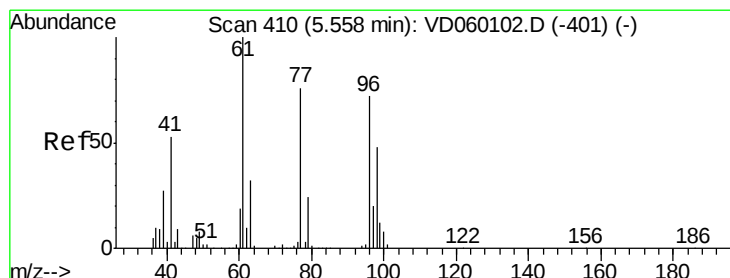
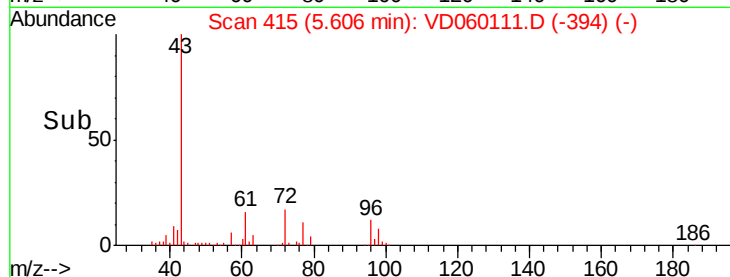
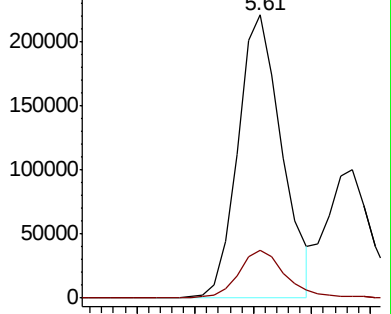
43 100

72 16.9 14.5 21.7



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 21.129 ug/l

RT: 5.57 min Scan# 411

Delta R.T. 0.01 min

Lab File: VD060111.D

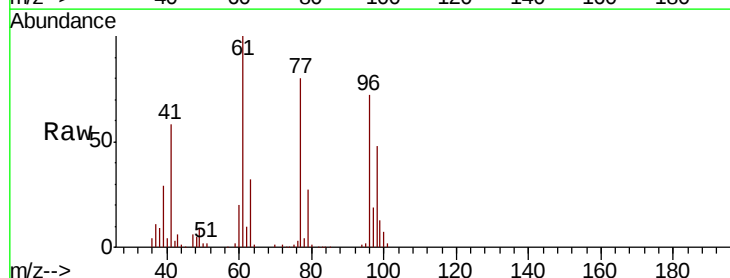
Acq: 2 Oct 2018 12:52

Tgt Ion: 77 Resp: 435579

Ion Ratio Lower Upper

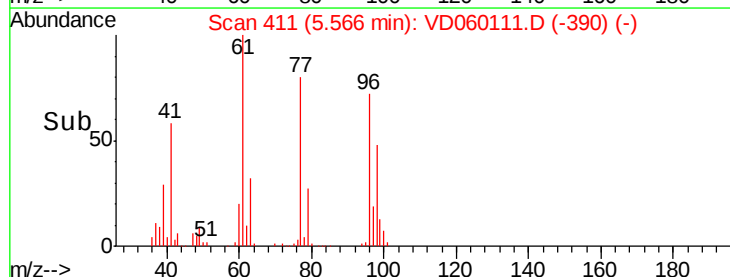
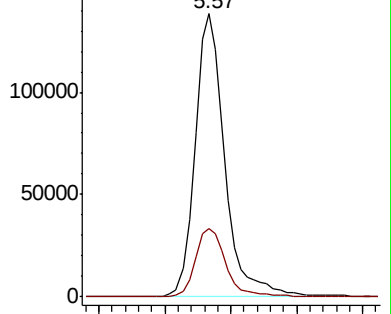
77 100

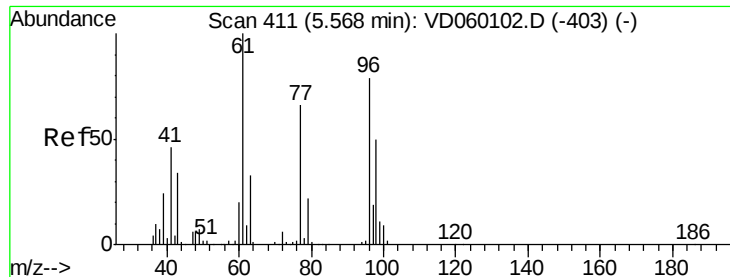
97 24.3 13.3 39.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



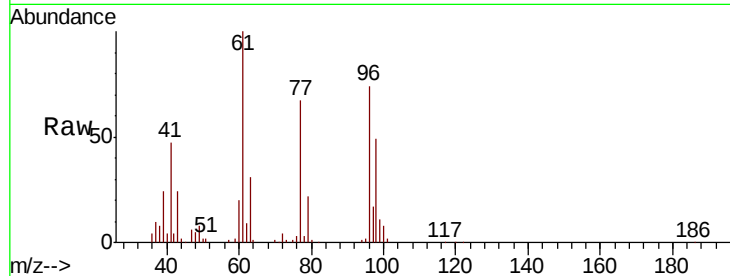


#27

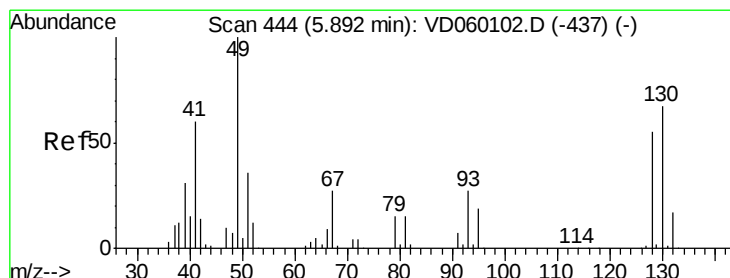
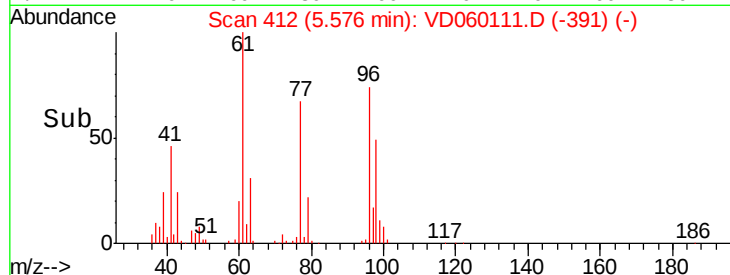
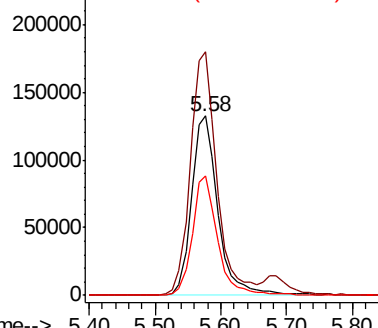
cis-1,2-Dichloroethene
 Concen: 20.839 ug/l
 RT: 5.58 min Scan# 412
 Delta R.T. 0.01 min
 Lab File: VD060111.D
 Acq: 2 Oct 2018 12:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1002SBSD01

Tot Ion	96	Resp	368719
Ion	Ratio	Lower	Upper
96	100		
61	135.6	0.0	251.8
98	66.4	0.0	125.2



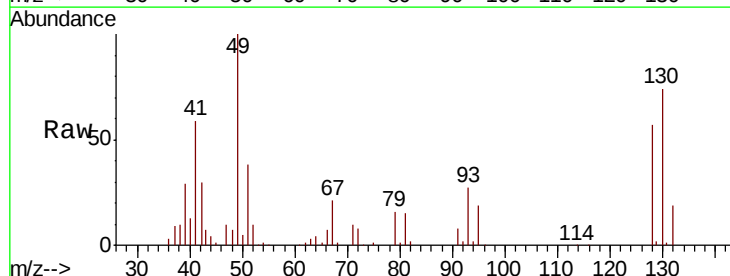
Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 97.85 (97.55 to 98.55): VDC



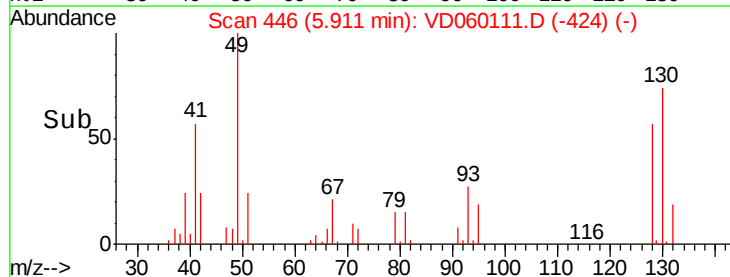
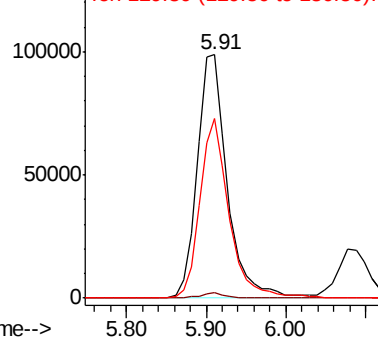
#28

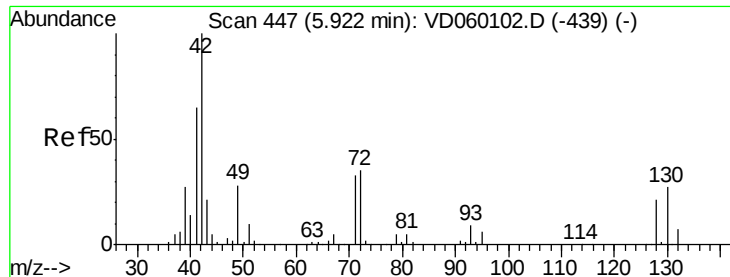
Bromochloromethane
 Concen: 19.787 ug/l
 RT: 5.91 min Scan# 446
 Delta R.T. 0.02 min
 Lab File: VD060111.D
 Acq: 2 Oct 2018 12:52

Tgt Ion	49	Resp	261478
Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	3.6
130	73.6	53.9	80.9



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





#29

Tetrahydrofuran

Concen: 99.724 ug/l

RT: 5.94 min Scan# 449

Delta R.T. 0.02 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

Instrument :

MSVOA_D

ClientSampleId :

VD1002SBS01

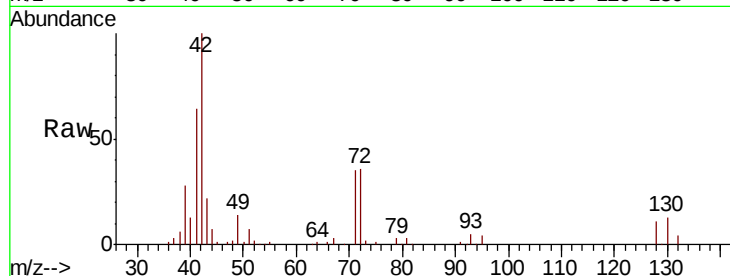
Tot Ion: 42 Resp: 315502

Ion Ratio Lower Upper

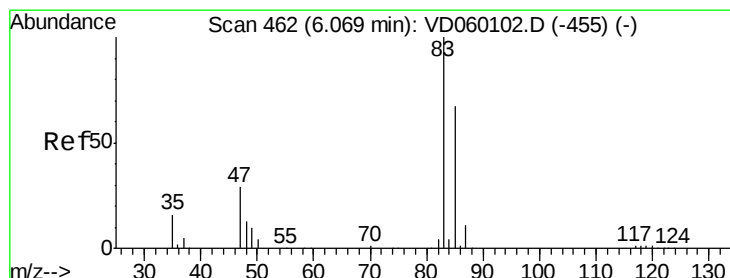
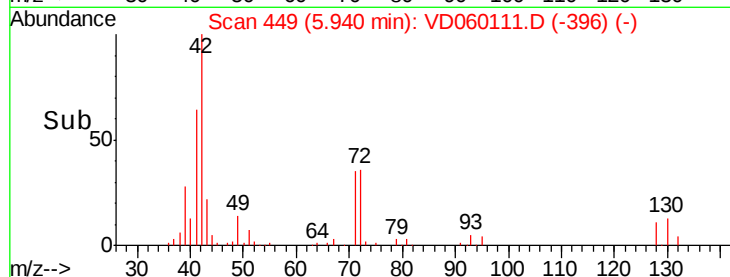
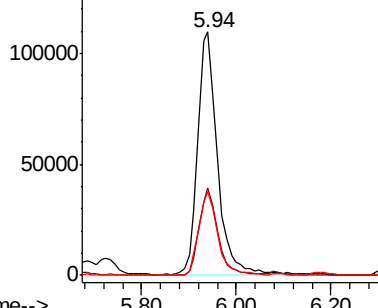
42 100

72 34.2 26.9 40.3

71 33.2 26.7 40.1



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: 21.227 ug/l

RT: 6.09 min Scan# 464

Delta R.T. 0.02 min

Lab File: VD060111.D

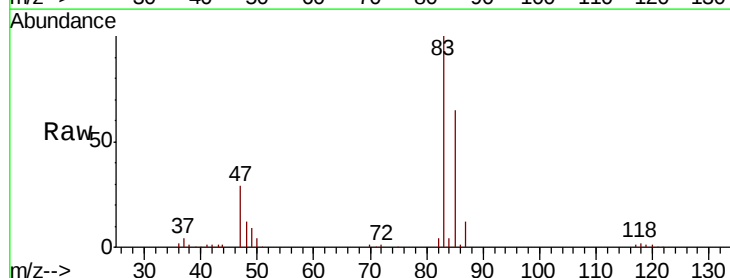
Acq: 2 Oct 2018 12:52

Tgt Ion: 83 Resp: 583889

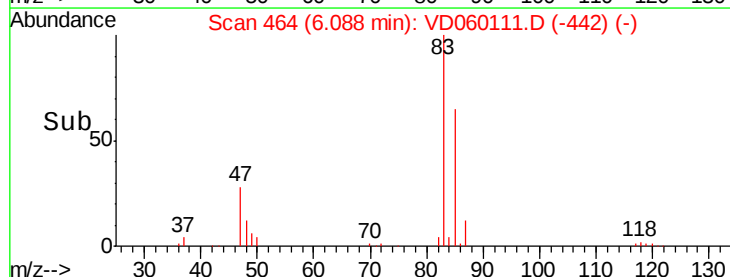
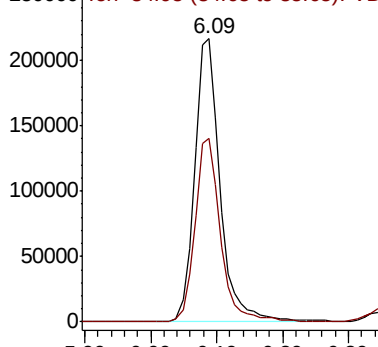
Ion Ratio Lower Upper

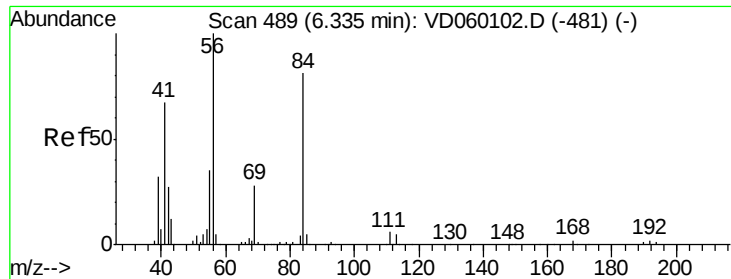
83 100

85 65.1 53.8 80.8



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

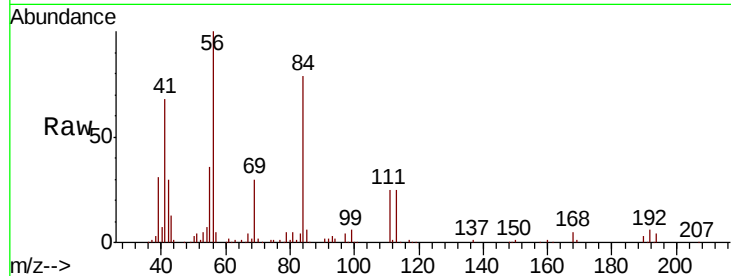




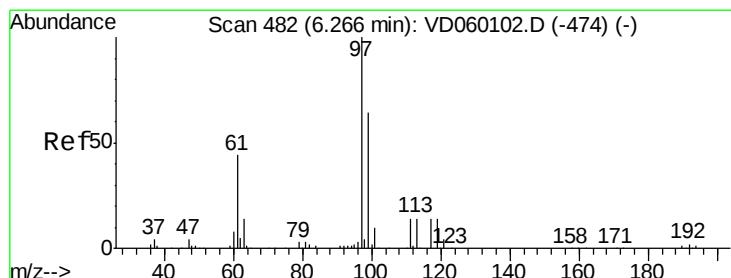
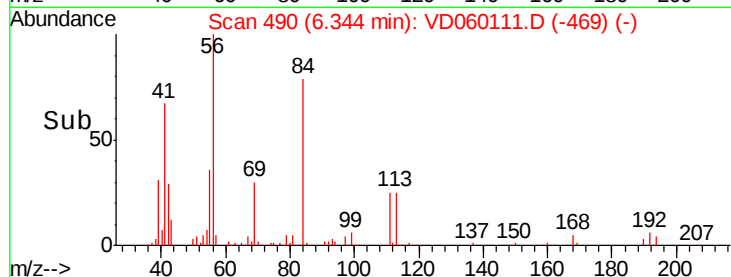
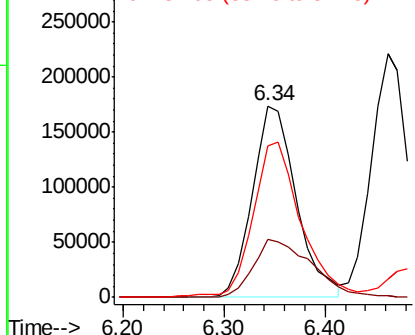
#31
Cyclohexane
Concen: 20.182 ug/l
RT: 6.34 min Scan# 490
Delta R.T. 0.01 min
Lab File: VD060111.D
Acq: 2 Oct 2018 12:52

Instrument :
MSVOA_D
ClientSampleId :
VD1002SBS01

Tot Ion: 56 Resp: 525364
Ion Ratio Lower Upper
56 100
69 30.4 22.8 34.2
84 79.2 64.9 97.3

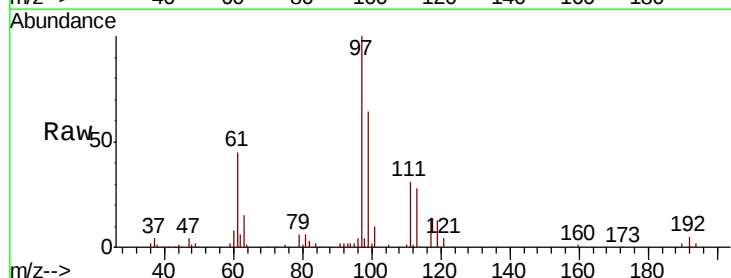


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

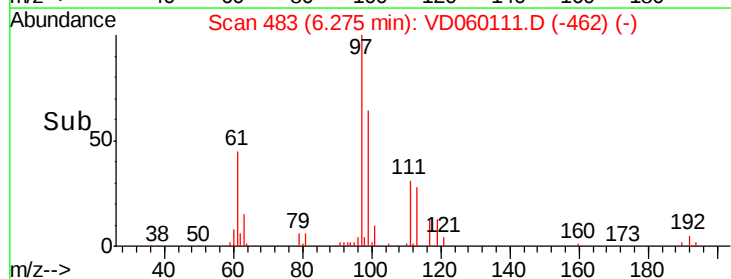
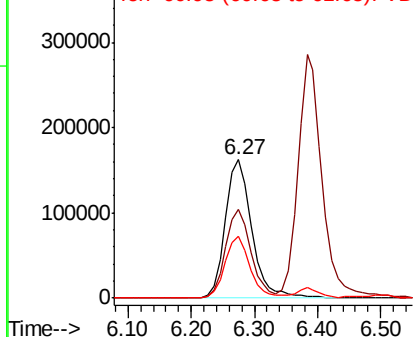


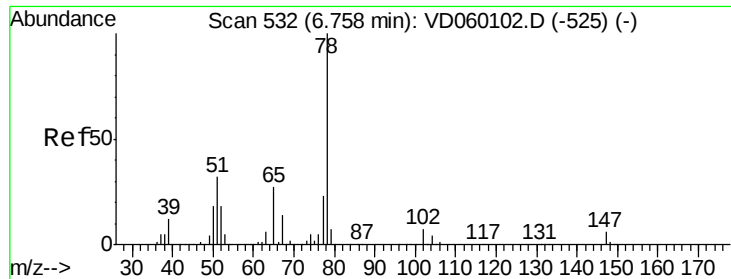
#32
1,1,1-Trichloroethane
Concen: 20.918 ug/l
RT: 6.27 min Scan# 483
Delta R.T. 0.01 min
Lab File: VD060111.D
Acq: 2 Oct 2018 12:52

Tgt Ion: 97 Resp: 471417
Ion Ratio Lower Upper
97 100
99 64.3 51.4 77.0
61 44.9 35.5 53.3



Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 98.85 (98.55 to 99.55): VDC
Ion 60.95 (60.65 to 61.65): VDC





#33

1,2-Dichloroethane-d4

Concen: 20.918 ug/l

RT: 6.77 min Scan# 533

Delta R.T. 0.01 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

Instrument :

MSVOA_D

ClientSampleId :

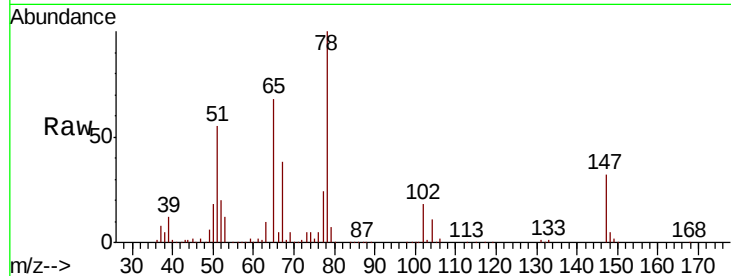
VD1002SBSD01

Tot Ion: 65 Resp: 633636

Ion Ratio Lower Upper

65 100

67 55.9 0.0 106.2



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

6.77

250000

200000

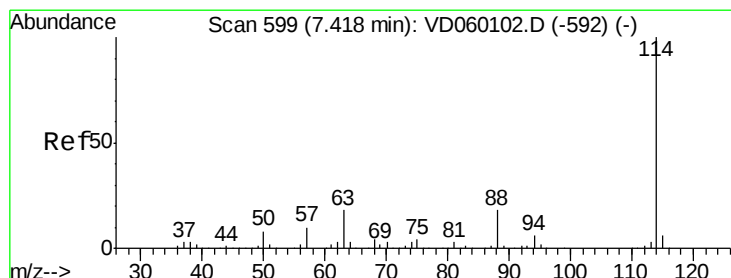
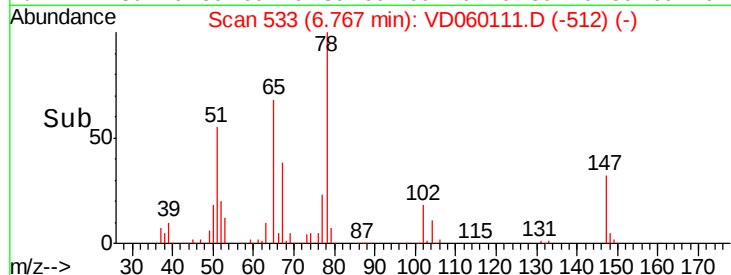
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.43 min Scan# 600

Delta R.T. 0.01 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

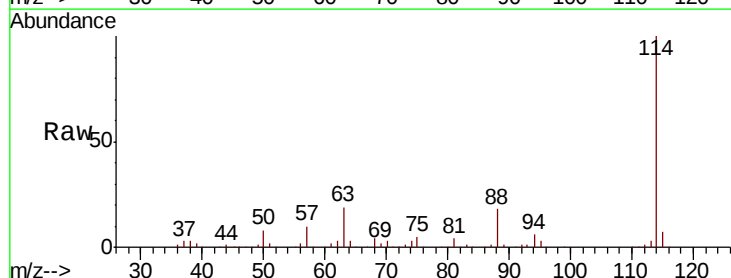
Tgt Ion: 114 Resp: 2262430

Ion Ratio Lower Upper

114 100

63 18.6 0.0 36.0

88 18.3 0.0 36.2



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

7.43

1200000

1000000

800000

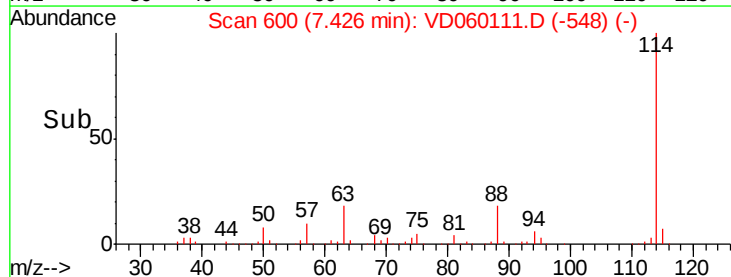
600000

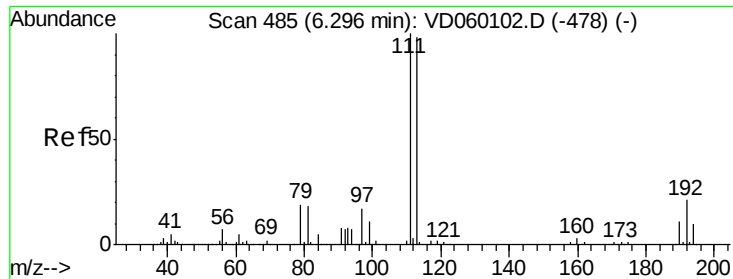
400000

200000

0

Time-->

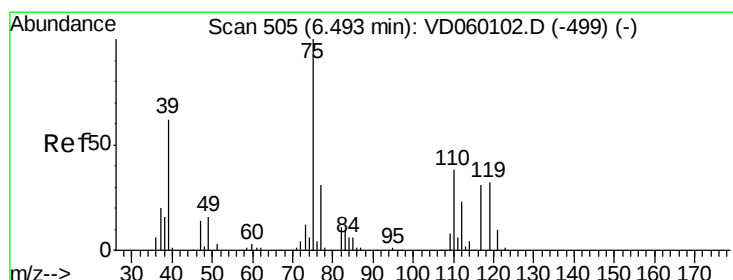
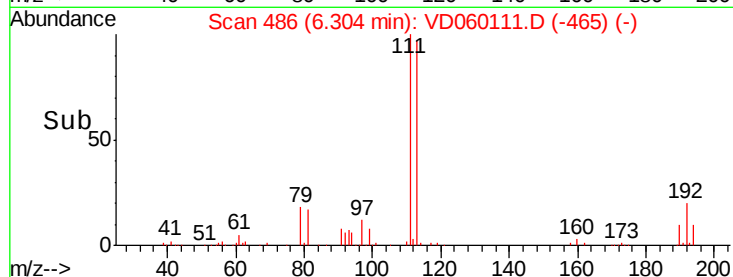
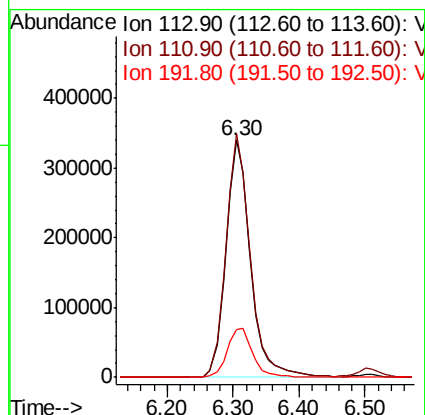
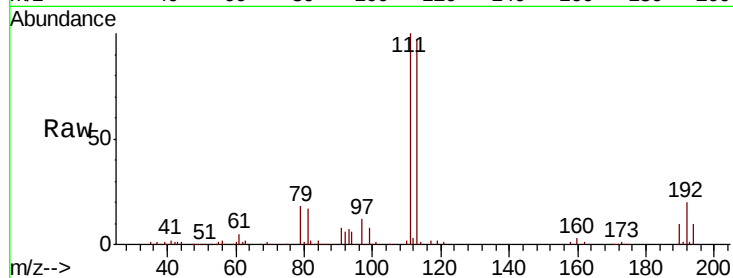




#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 6.30 min Scan# 486
Delta R.T. 0.01 min
Lab File: VD060111.D
Acq: 2 Oct 2018 12:52

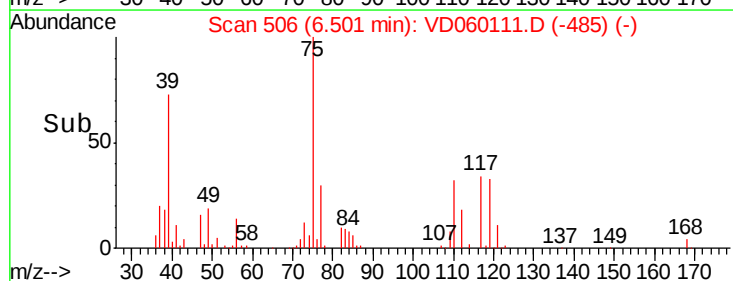
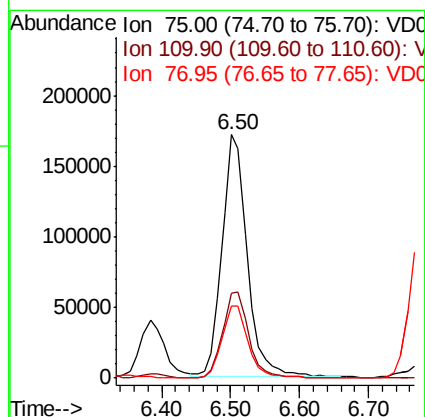
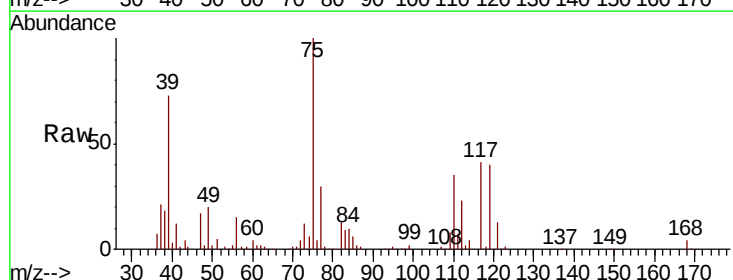
Instrument :
MSVOA_D
ClientSampleId :
VD1002SBSD01

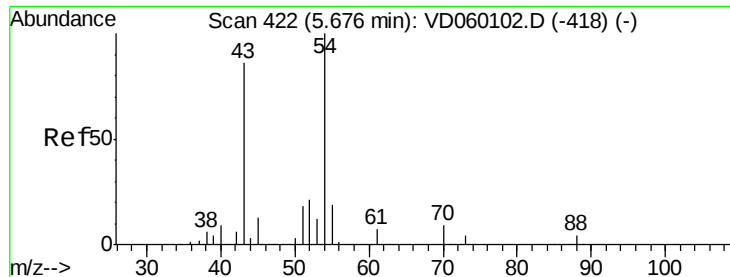
Tot Ion:113 Resp: 885412
Ion Ratio Lower Upper
113 100
111 102.8 81.5 122.3
192 20.3 17.4 26.0



#36
1,1-Dichloropropene
Concen: 20.097 ug/l
RT: 6.50 min Scan# 506
Delta R.T. 0.01 min
Lab File: VD060111.D
Acq: 2 Oct 2018 12:52

Tgt Ion: 75 Resp: 434487
Ion Ratio Lower Upper
75 100
110 35.0 19.0 57.0
77 29.6 24.9 37.3

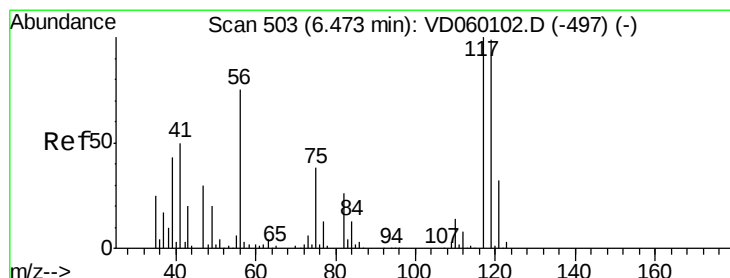
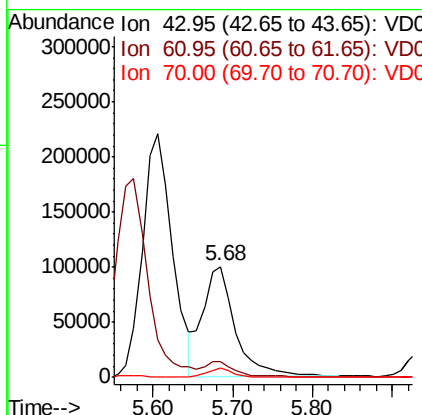
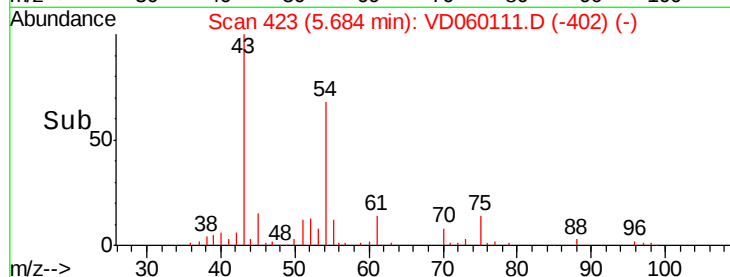
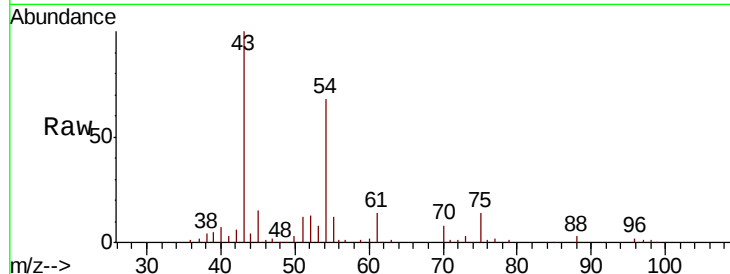




#37
Ethyl Acetate
Concen: 19.859 ug/l
RT: 5.68 min Scan# 423
Delta R.T. 0.01 min
Lab File: VD060111.D
Acq: 2 Oct 2018 12:52

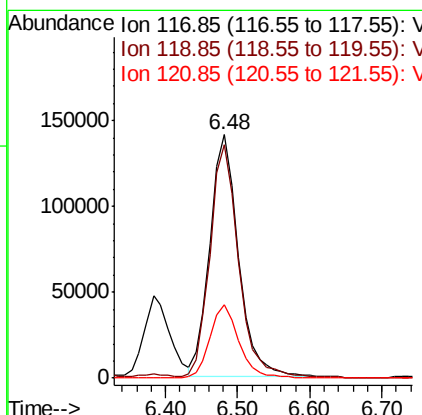
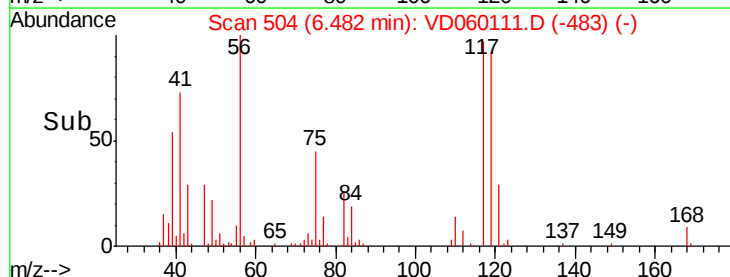
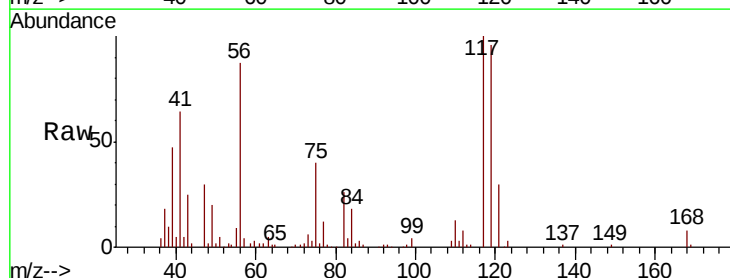
Instrument :
MSVOA_D
ClientSampleID :
VD1002SBSD01

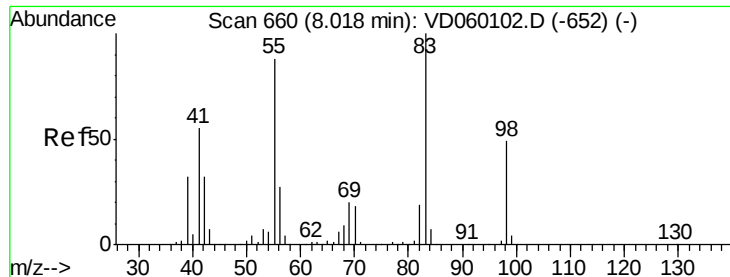
Tot Ion: 43 Resp: 284987
Ion Ratio Lower Upper
43 100
61 14.4 10.5 15.7
70 7.9 6.3 9.5



#38
Carbon Tetrachloride
Concen: 19.747 ug/l
RT: 6.48 min Scan# 504
Delta R.T. 0.01 min
Lab File: VD060111.D
Acq: 2 Oct 2018 12:52

Tgt Ion: 117 Resp: 387484
Ion Ratio Lower Upper
117 100
119 95.7 77.8 116.6
121 29.9 24.8 37.2

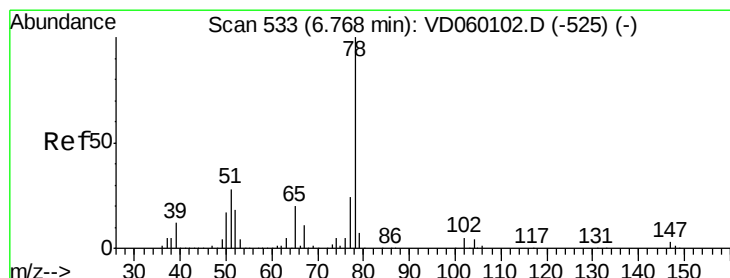
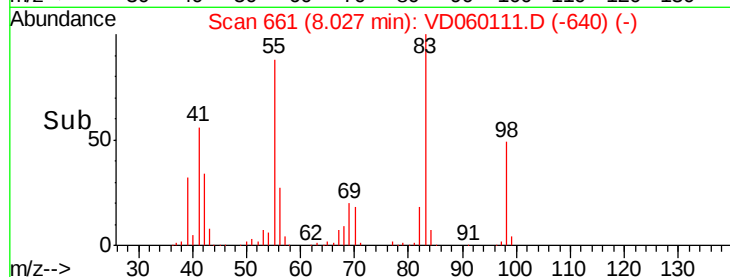
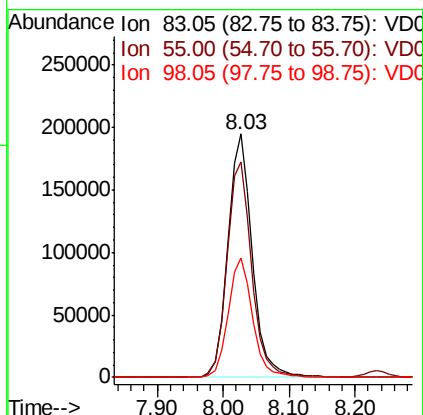
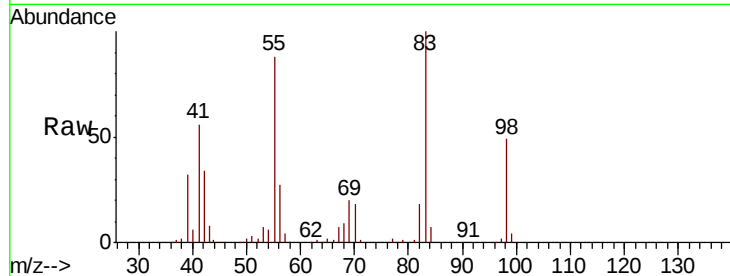




#39
Methvlcvclohexane
Concen: 20.534 ug/l
RT: 8.03 min Scan# 661
Delta R.T. 0.01 min
Lab File: VD060111.D
Acq: 2 Oct 2018 12:52

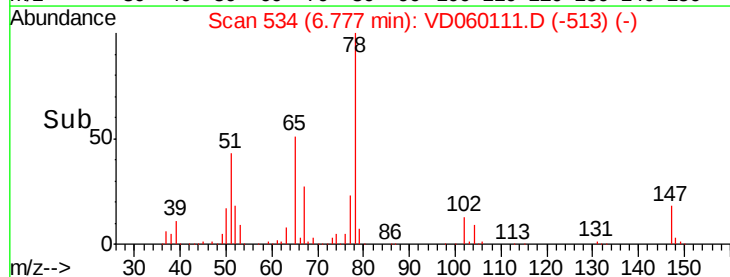
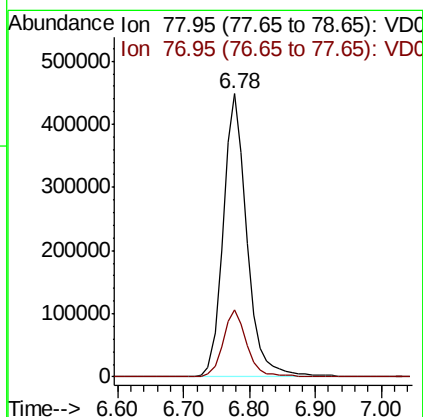
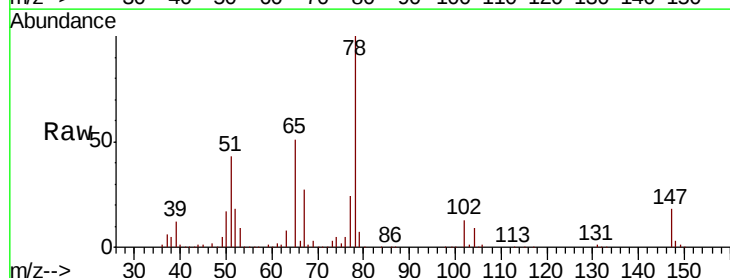
Instrument :
MSVOA_D
ClientSampleId :
VD1002SBSD01

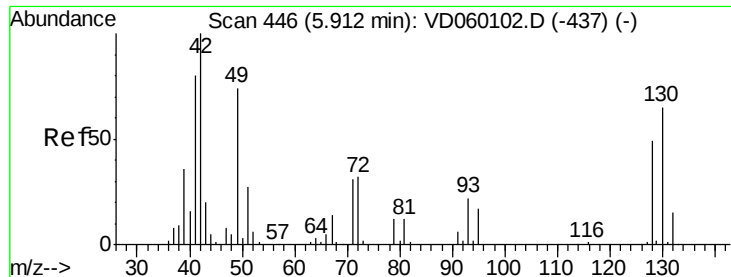
Tot Ion: 83 Resp: 504401
Ion Ratio Lower Upper
83 100
55 88.2 70.5 105.7
98 49.1 39.4 59.2



#40
Benzene
Concen: 19.939 ug/l
RT: 6.78 min Scan# 534
Delta R.T. 0.01 min
Lab File: VD060111.D
Acq: 2 Oct 2018 12:52

Tgt Ion: 78 Resp: 1127722
Ion Ratio Lower Upper
78 100
77 23.6 19.0 28.4





#41

Methacrylonitrile

Concen: 39.870 ug/l

RT: 5.94 min Scan# 449

Delta R.T. 0.03 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

Instrument :

MSVOA_D

ClientSampleId :

VD1002SBSD01

Tot Ion: 41 Resp: 323390

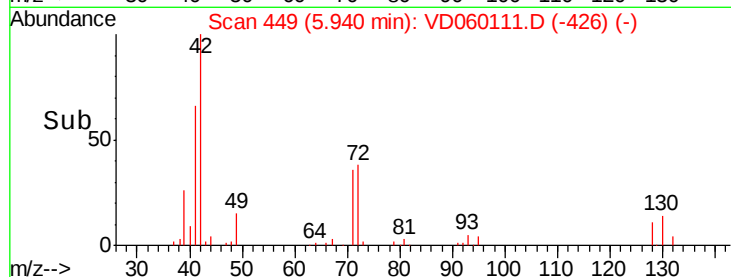
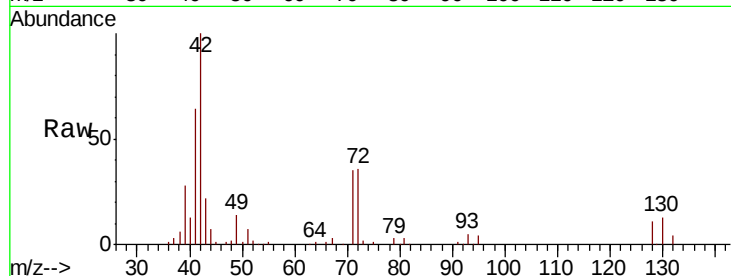
Ion Ratio Lower Upper

41 100

39 43.3 36.0 54.0

67 4.0 13.9 20.9#

52 2.9 6.1 9.1#

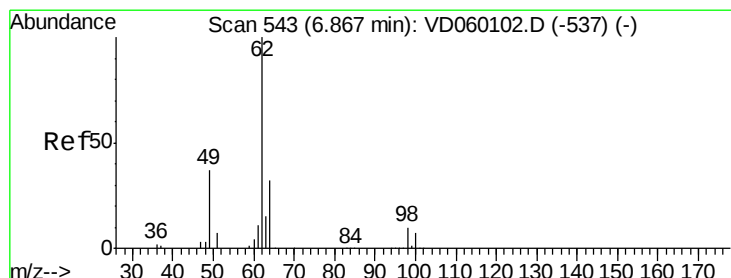
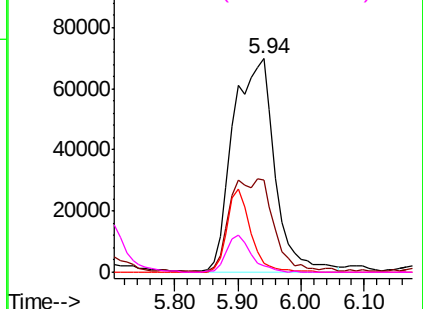


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 20.017 ug/l

RT: 6.88 min Scan# 544

Delta R.T. 0.01 min

Lab File: VD060111.D

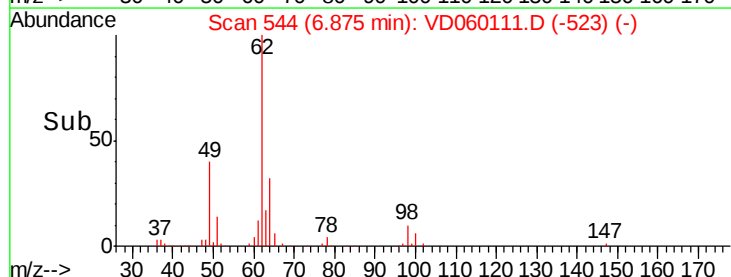
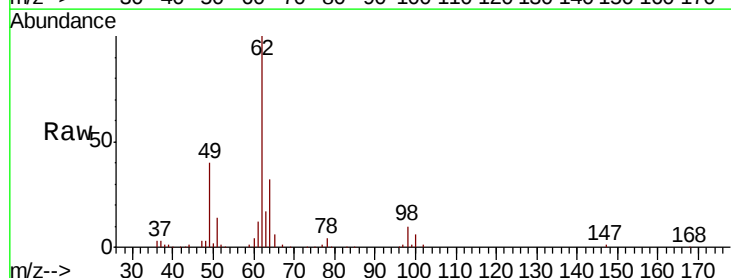
Acq: 2 Oct 2018 12:52

Tgt Ion: 62 Resp: 324597

Ion Ratio Lower Upper

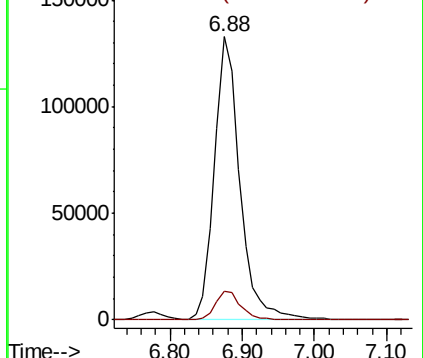
62 100

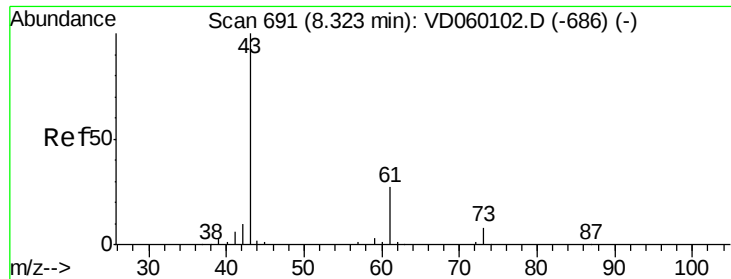
98 9.9 0.0 20.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



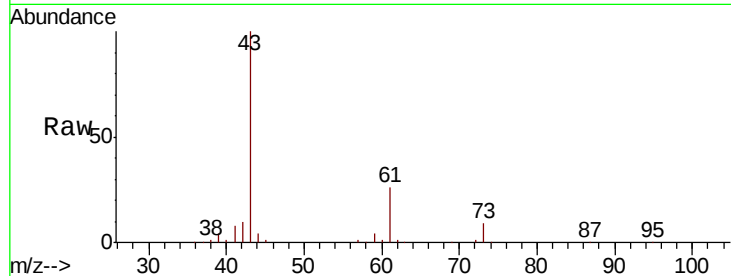


#43

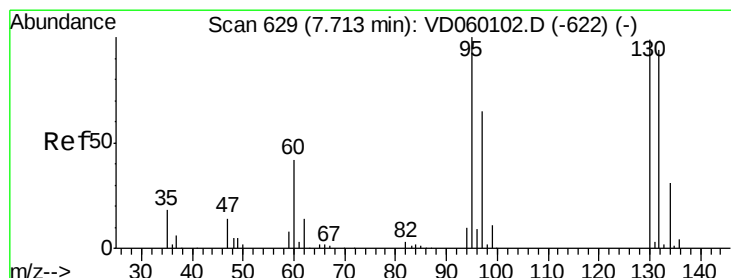
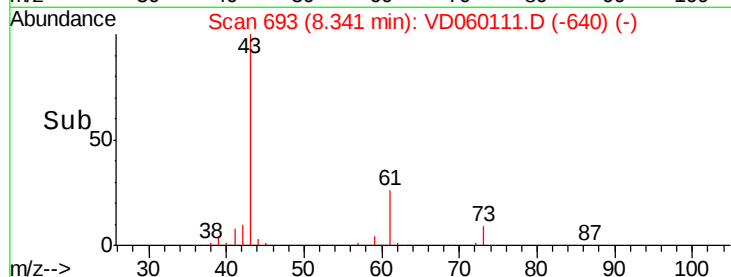
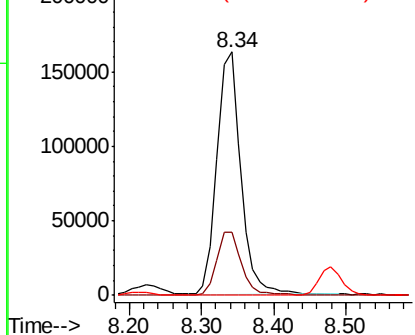
Isopropyl Acetate
 Concen: 19.786 ug/l
 RT: 8.34 min Scan# 693
 Delta R.T. 0.02 min
 Lab File: VD060111.D
 Acq: 2 Oct 2018 12:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1002SBSD01

Tot Ion: 43 Resp: 373538
 Ion Ratio Lower Upper
 43 100
 61 26.2 21.4 32.2
 87 0.4 0.2 0.2#



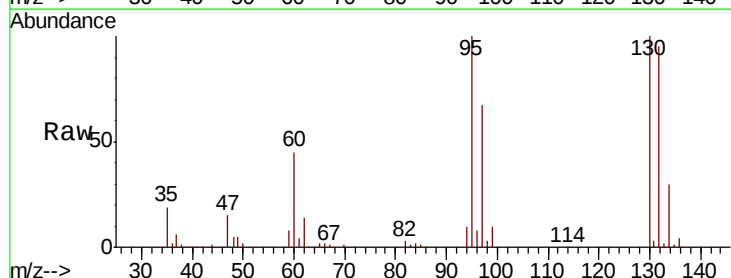
Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



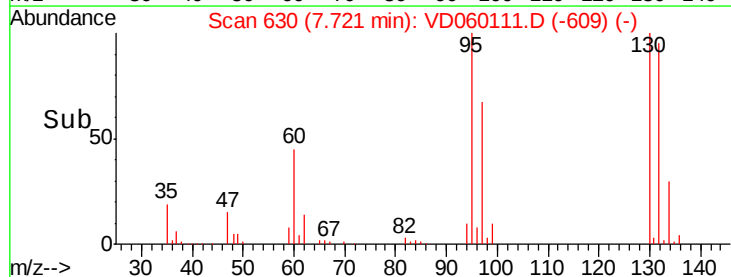
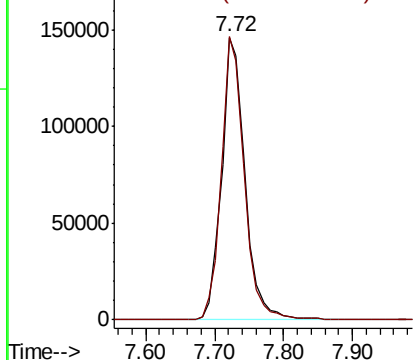
#44

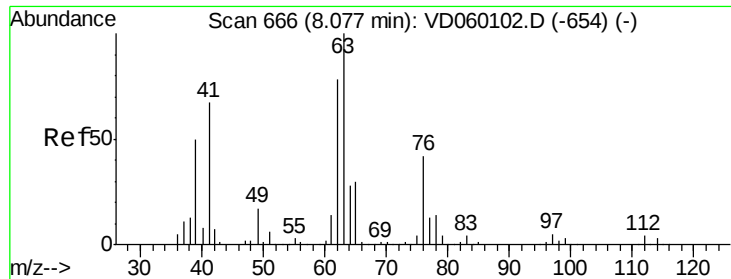
Trichloroethene
 Concen: 19.565 ug/l
 RT: 7.72 min Scan# 630
 Delta R.T. 0.01 min
 Lab File: VD060111.D
 Acq: 2 Oct 2018 12:52

Tgt Ion:130 Resp: 342555
 Ion Ratio Lower Upper
 130 100
 95 100.3 0.0 202.2



Abundance Ion 129.80 (129.50 to 130.50): VDC
 Ion 94.90 (94.60 to 95.60): VDC

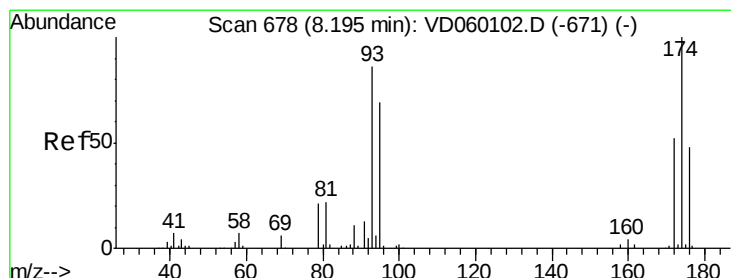
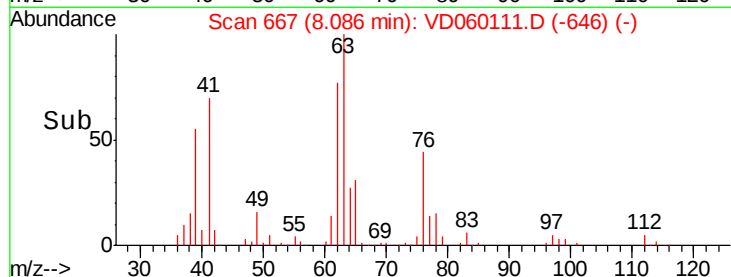
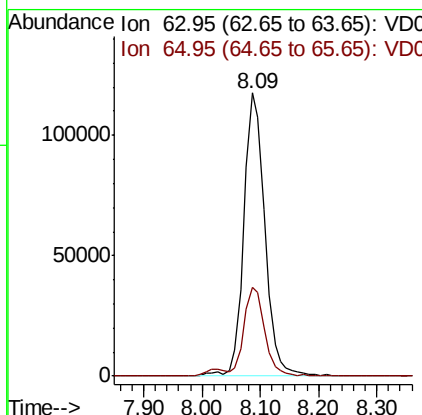
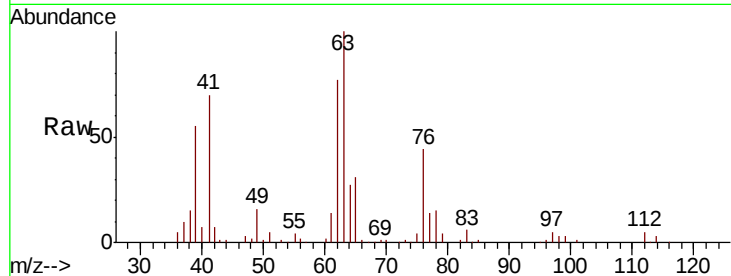




#45
 1,2-Dichloropropane
 Concen: 19.953 ug/l
 RT: 8.09 min Scan# 667
 Delta R.T. 0.01 min
 Lab File: VD060111.D
 Acq: 2 Oct 2018 12:52

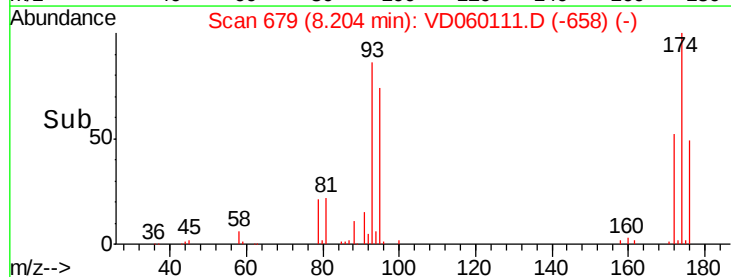
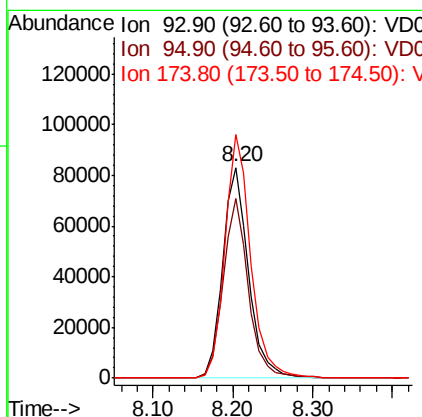
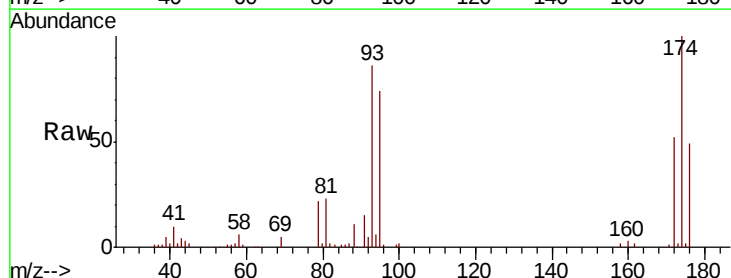
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1002SBS01

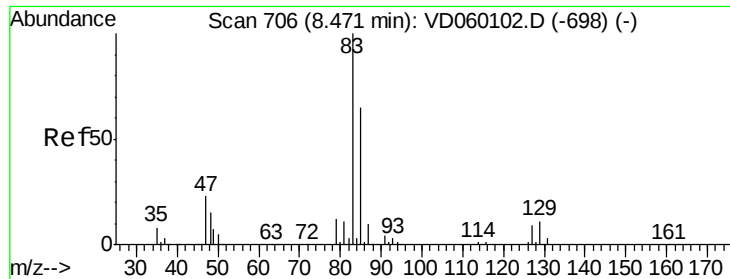
Tot Ion: 63 Resp: 295505
 Ion Ratio Lower Upper
 63 100
 65 31.3 24.1 36.1



#46
 Dibromomethane
 Concen: 19.777 ug/l
 RT: 8.20 min Scan# 679
 Delta R.T. 0.01 min
 Lab File: VD060111.D
 Acq: 2 Oct 2018 12:52

Tgt Ion: 93 Resp: 189625
 Ion Ratio Lower Upper
 93 100
 95 85.6 63.8 95.6
 174 115.7 92.9 139.3





#47

Bromodichloromethane

Concen: 20.300 ug/l

RT: 8.48 min Scan# 707

Delta R.T. 0.01 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

Instrument :

MSVOA_D

ClientSampleId :

VD1002SBSD01

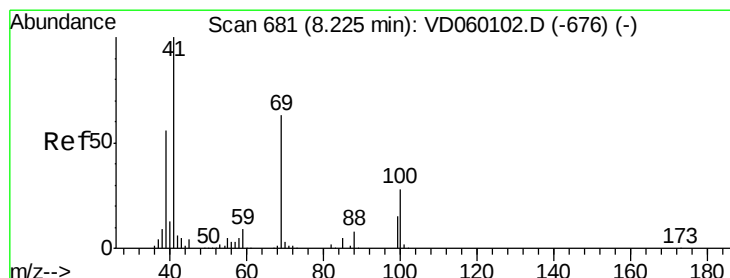
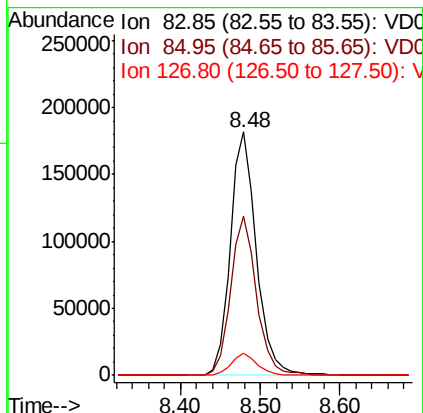
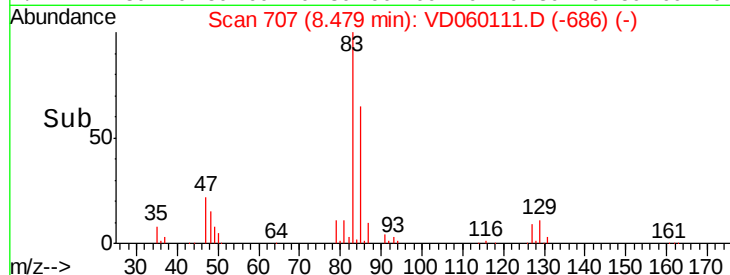
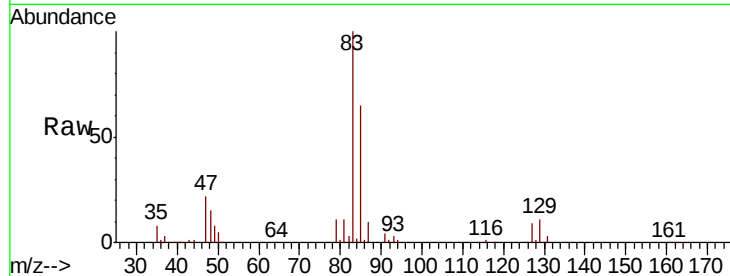
Tot Ion: 83 Resp: 414713

Ion Ratio Lower Upper

83 100

85 65.1 52.2 78.2

127 9.3 7.4 11.0



#48

Methyl methacrylate

Concen: 20.380 ug/l

RT: 8.23 min Scan# 682

Delta R.T. 0.01 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

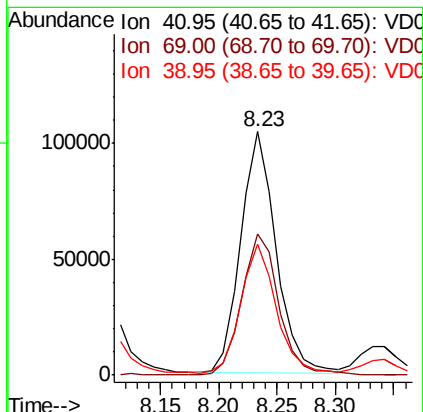
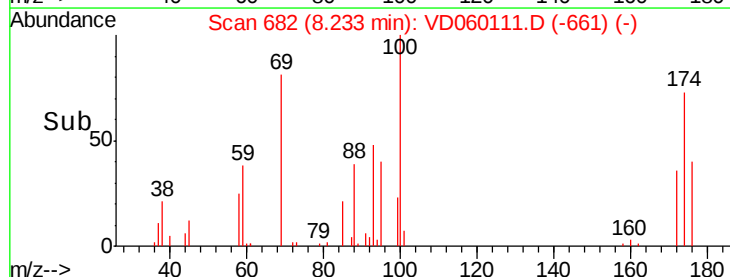
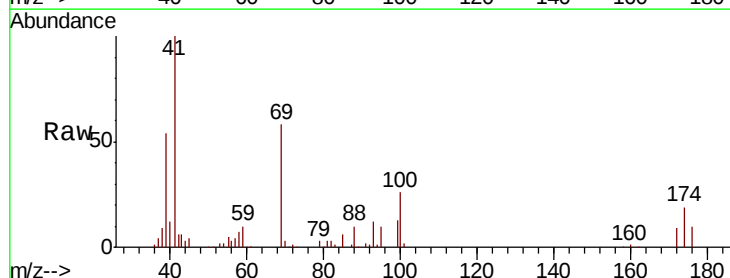
Tgt Ion: 41 Resp: 219162

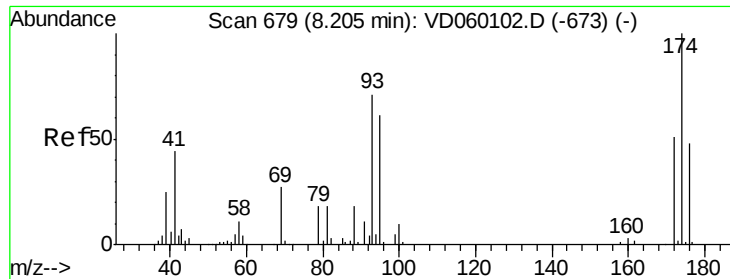
Ion Ratio Lower Upper

41 100

69 58.0 49.7 74.5

39 53.7 45.2 67.8





#49

1,4-Dioxane

Concen: 409.631 ug/l

RT: 8.22 min Scan# 681

Delta R.T. 0.02 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

Instrument :

MSVOA_D

ClientSampleId :

VD1002SBSD01

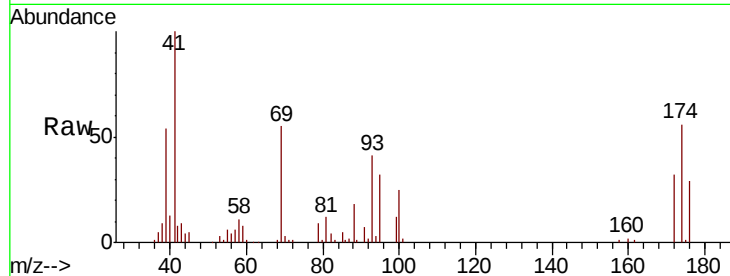
Tot Ion: 88 Resp: 43343

Ion Ratio Lower Upper

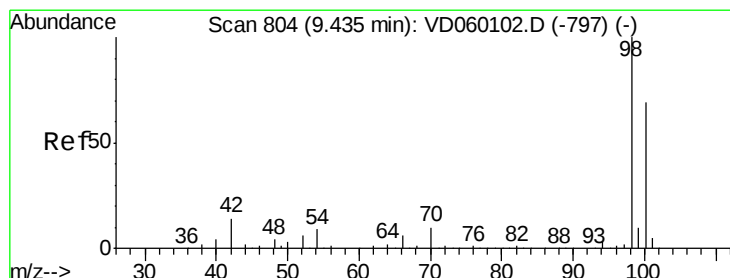
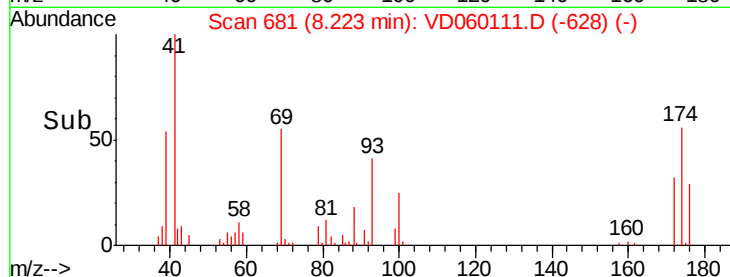
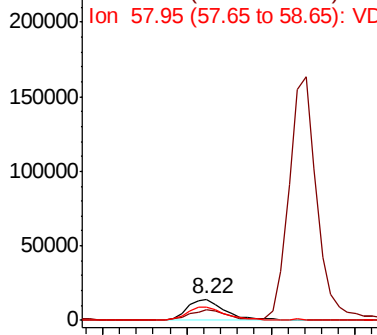
88 100

43 49.8 33.7 50.5

58 62.4 49.1 73.7



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



#50

Toluene-d8

Concen: 409.631 ug/l

RT: 9.44 min Scan# 805

Delta R.T. 0.01 min

Lab File: VD060111.D

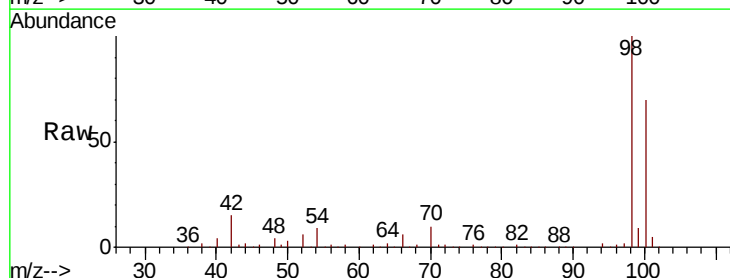
Acq: 2 Oct 2018 12:52

Tgt Ion: 98 Resp: 2491063

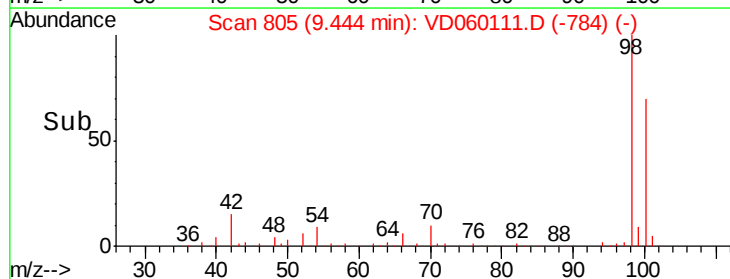
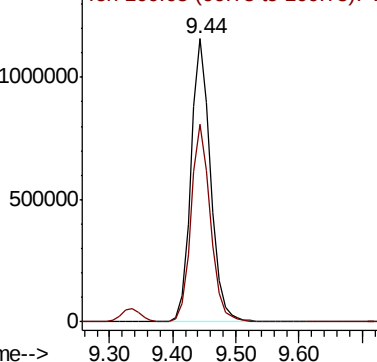
Ion Ratio Lower Upper

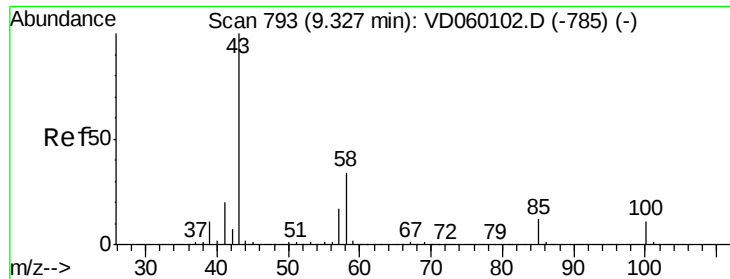
98 100

100 69.8 55.4 83.0



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: 100.818 ug/l

RT: 9.34 min Scan# 794

Delta R.T. 0.01 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

Instrument :

MSVOA_D

ClientSampleId :

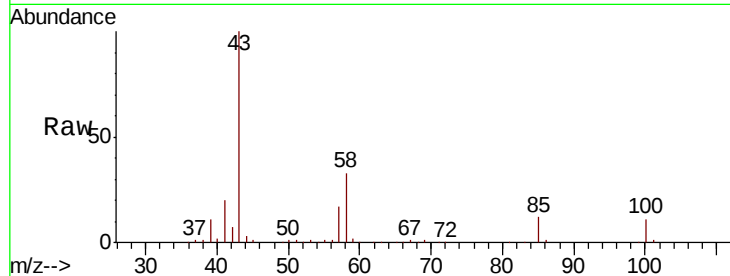
VD1002SBS01

Tot Ion: 43 Resp: 1200516

Ion Ratio Lower Upper

43 100

58 32.5 27.2 40.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

600000

500000

400000

300000

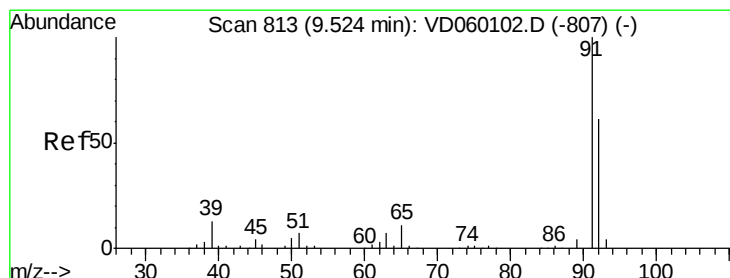
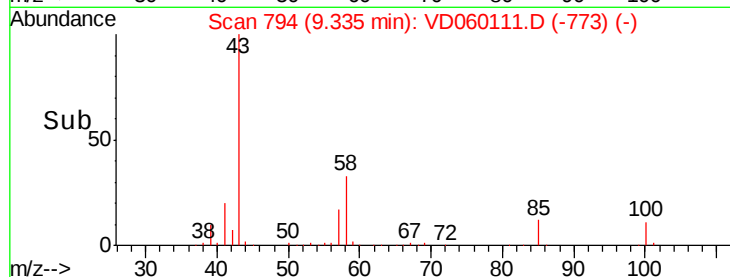
200000

100000

0

9.20 9.30 9.40

Time-->



#52

Toluene

Concen: 20.055 ug/l

RT: 9.54 min Scan# 815

Delta R.T. 0.02 min

Lab File: VD060111.D

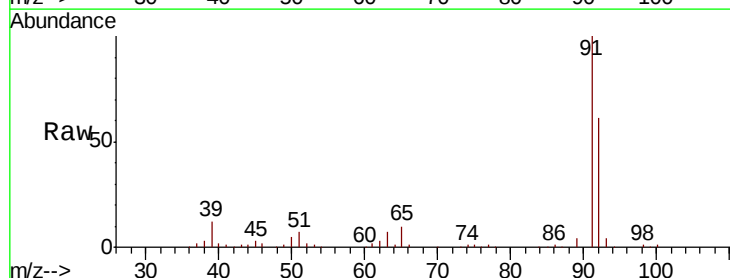
Acq: 2 Oct 2018 12:52

Tgt Ion: 92 Resp: 730539

Ion Ratio Lower Upper

92 100

91 163.2 131.9 197.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

600000

500000

400000

300000

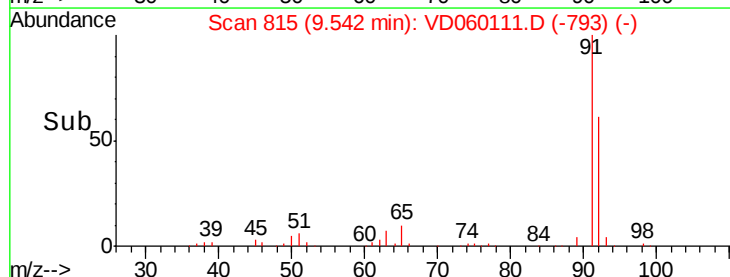
200000

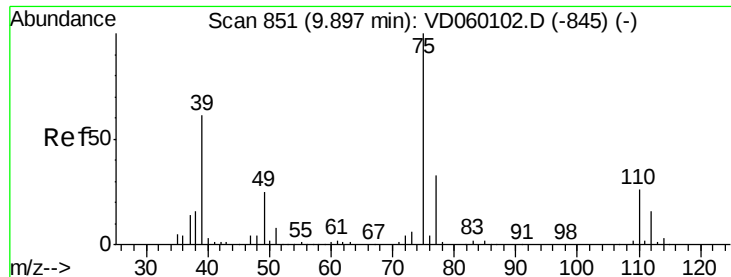
100000

0

9.40 9.50 9.60 9.70

Time-->





#53

t-1,3-Dichloropropene

Concen: 20.390 ug/l

RT: 9.91 min Scan# 852

Delta R.T. 0.01 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

Instrument :

MSVOA_D

ClientSampleId :

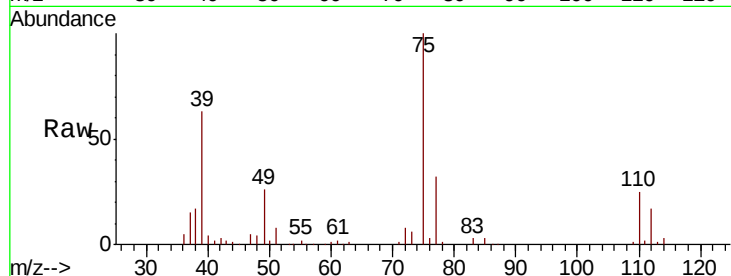
VD1002SBSD01

Tot Ion: 75 Resp: 376917

Ion Ratio Lower Upper

75 100

77 31.7 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

9.91

200000

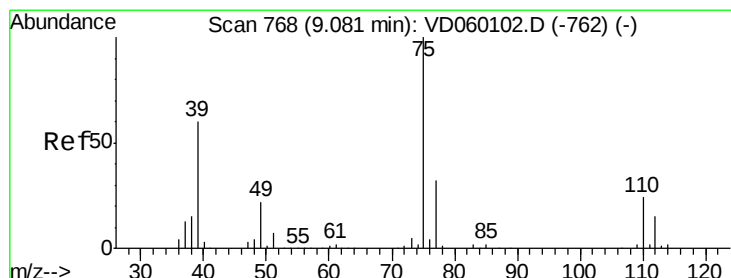
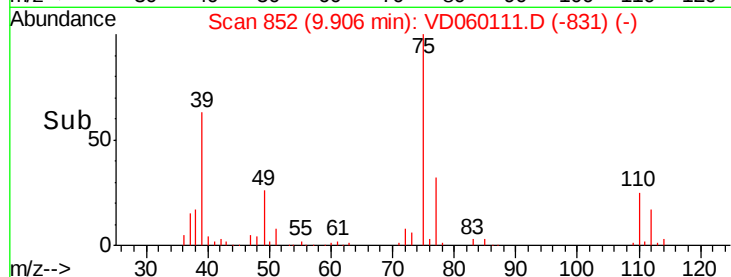
150000

100000

50000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 20.385 ug/l

RT: 9.09 min Scan# 769

Delta R.T. 0.01 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

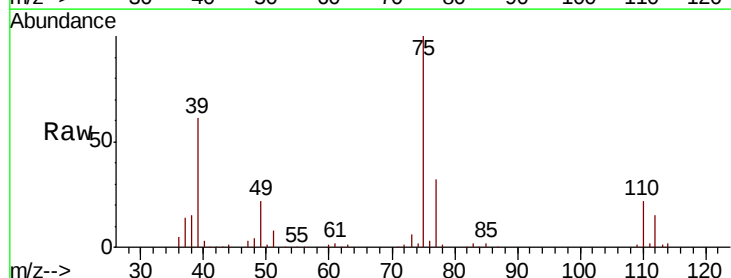
Tgt Ion: 75 Resp: 465341

Ion Ratio Lower Upper

75 100

77 32.4 25.7 38.5

39 61.2 48.2 72.4



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

300000

250000

200000

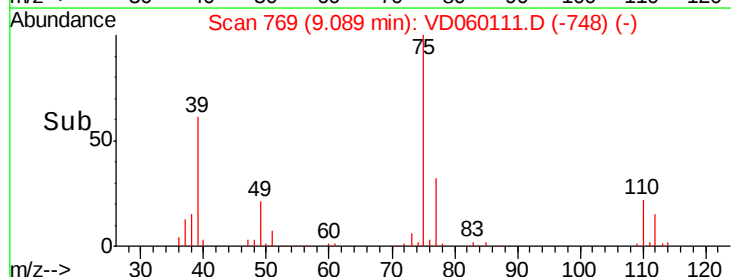
150000

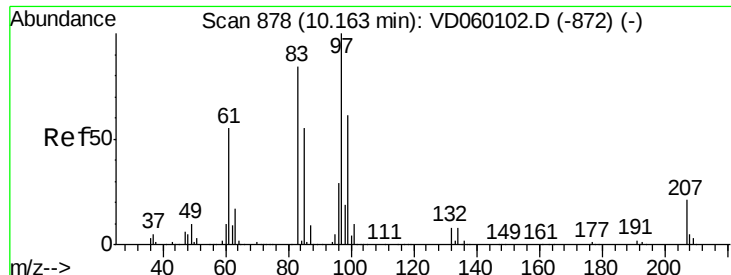
100000

50000

0

Time-->

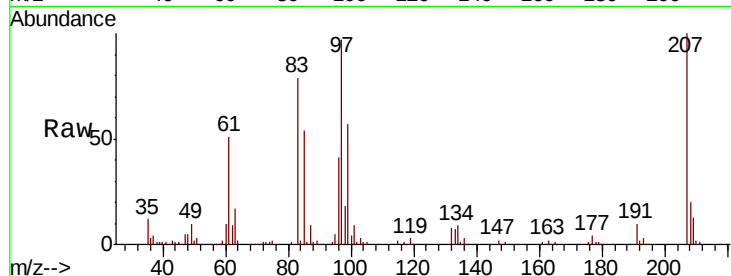




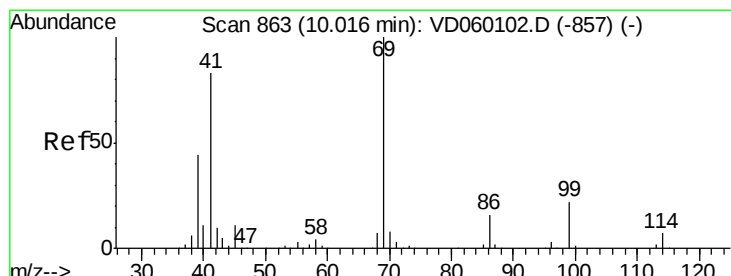
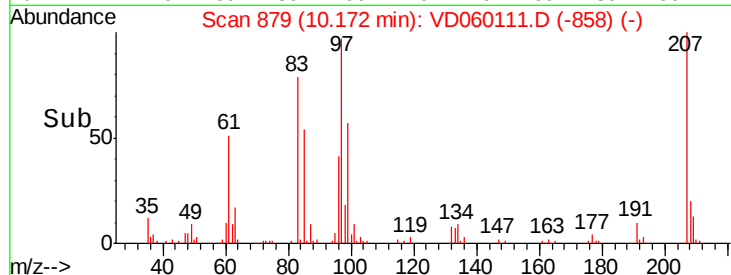
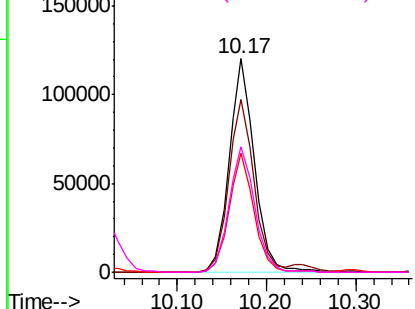
#55
 1,1,2-Trichloroethane
 Concen: 20.009 ug/l
 RT: 10.17 min Scan# 879
 Delta R.T. 0.01 min
 Lab File: VD060111.D
 Acq: 2 Oct 2018 12:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1002SBSD01

Tot Ion:	97	Resp:	238272
Ion	Ratio	Lower	Upper
97	100		
83	80.9	67.0	100.6
85	55.9	43.9	65.9
99	58.9	49.1	73.7

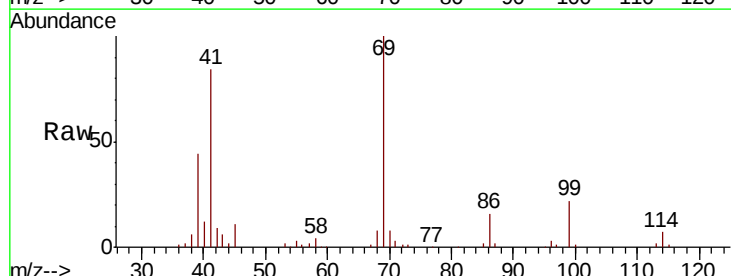


Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC

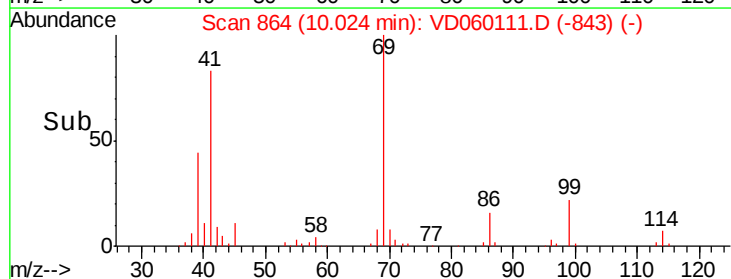
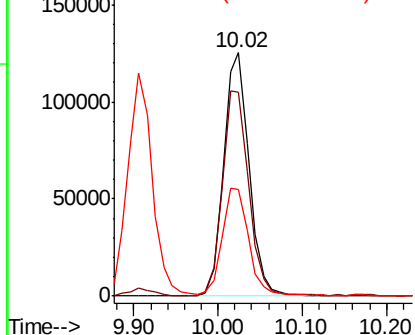


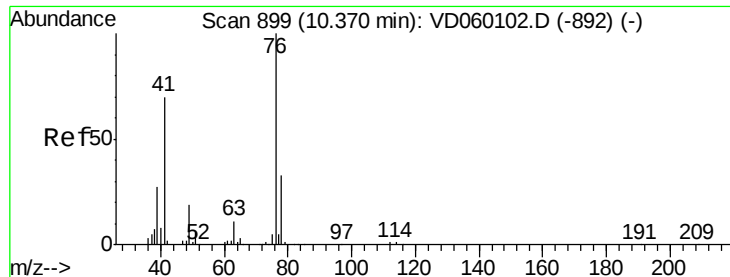
#56
 Ethyl methacrylate
 Concen: 19.898 ug/l
 RT: 10.02 min Scan# 864
 Delta R.T. 0.01 min
 Lab File: VD060111.D
 Acq: 2 Oct 2018 12:52

Tgt Ion:	69	Resp:	261569
Ion	Ratio	Lower	Upper
69	100		
41	83.8	66.6	100.0
39	43.8	36.0	54.0



Abundance Ion 69.00 (68.70 to 69.70): VDC
 Ion 41.05 (40.75 to 41.75): VDC
 Ion 38.95 (38.65 to 39.65): VDC

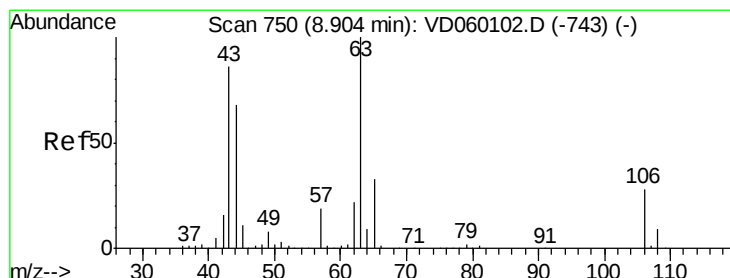
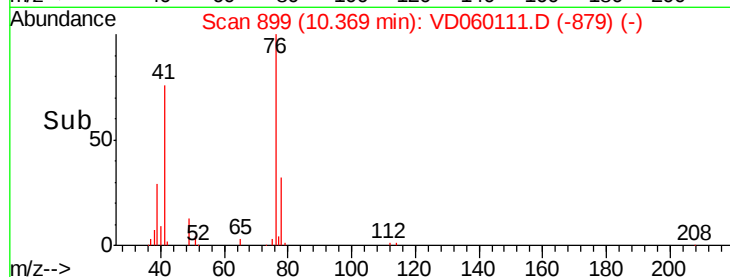
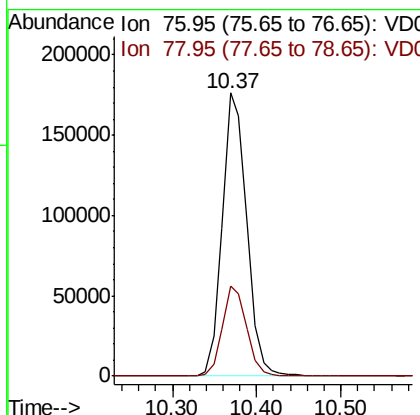
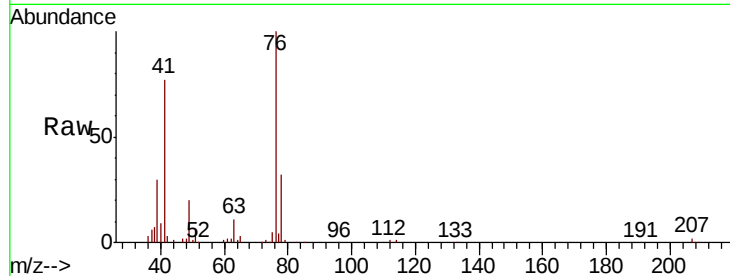




#57
 1,3-Dichloropropane
 Concen: 19.448 ug/l
 RT: 10.37 min Scan# 899
 Delta R.T. -0.00 min
 Lab File: VD060111.D
 Acq: 2 Oct 2018 12:52

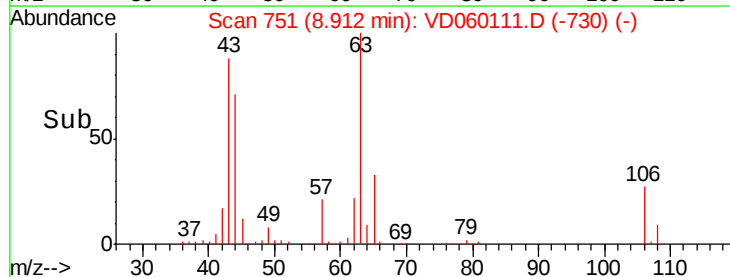
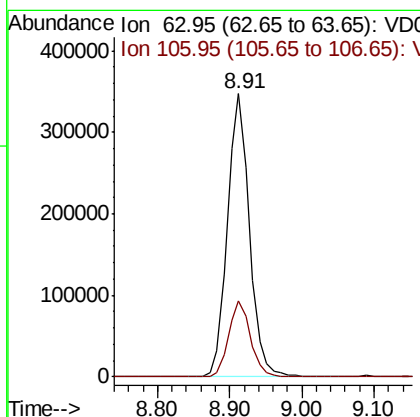
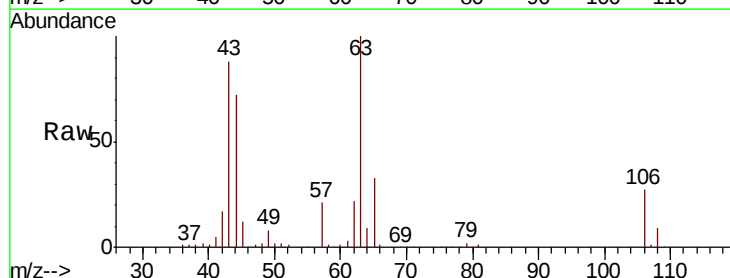
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1002SBSD01

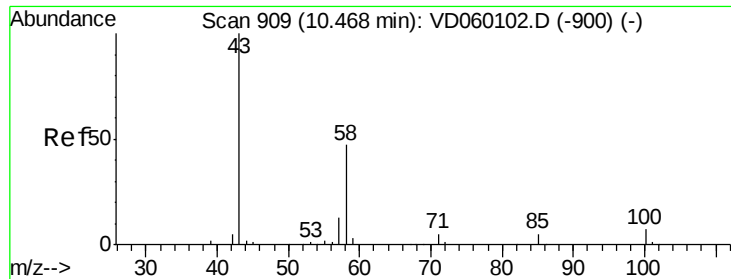
Tot Ion: 76 Resp: 353218
 Ion Ratio Lower Upper
 76 100
 78 31.7 26.2 39.2



#58
 2-Chloroethyl Vinyl ether
 Concen: 100.996 ug/l
 RT: 8.91 min Scan# 751
 Delta R.T. 0.01 min
 Lab File: VD060111.D
 Acq: 2 Oct 2018 12:52

Tgt Ion: 63 Resp: 737229
 Ion Ratio Lower Upper
 63 100
 106 27.0 22.6 34.0

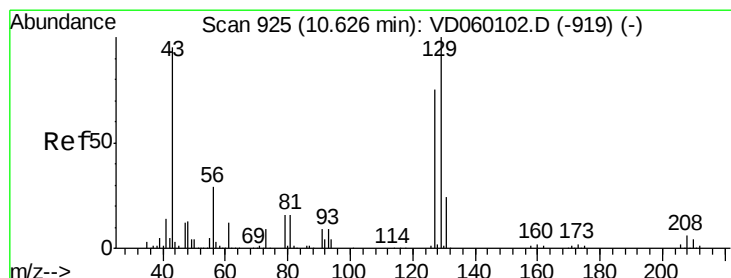
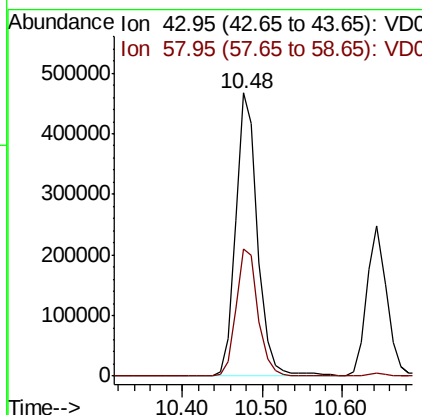
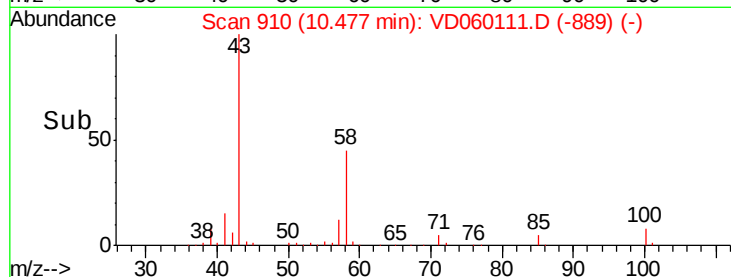
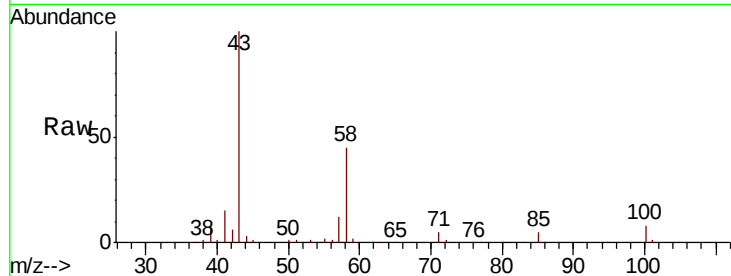




#59
2-Hexanone
Concen: 104.044 ug/l
RT: 10.48 min Scan# 910
Delta R.T. 0.01 min
Lab File: VD060111.D
Acq: 2 Oct 2018 12:52

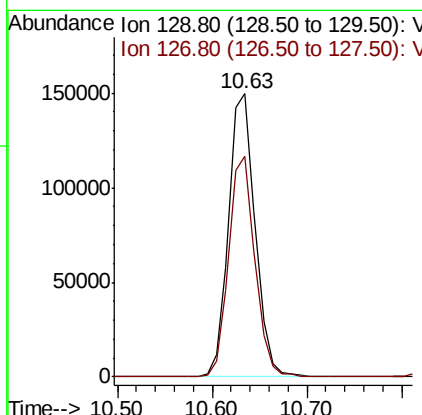
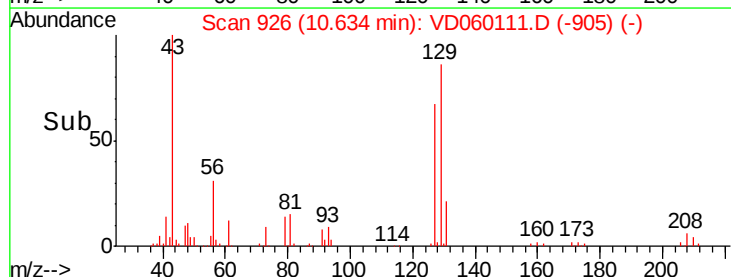
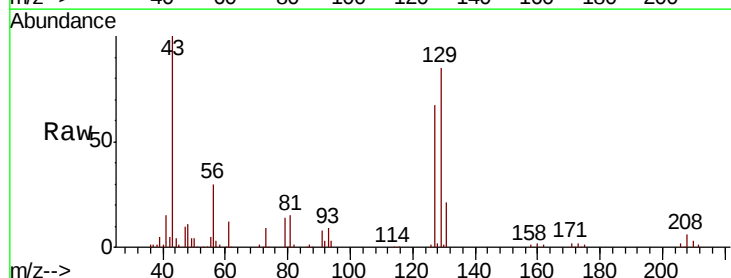
Instrument :
MSVOA_D
ClientSampleId :
VD1002SBSD01

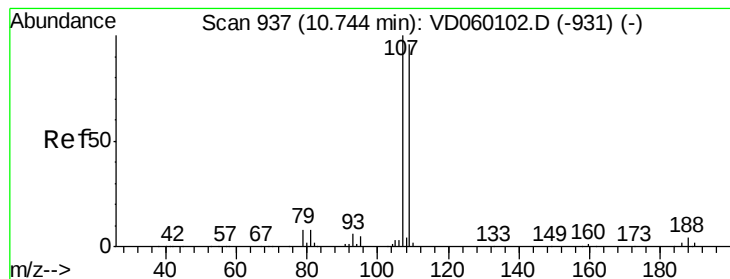
Tot Ion: 43 Resp: 890886
Ion Ratio Lower Upper
43 100
58 45.0 23.3 69.9



#60
Dibromochloromethane
Concen: 19.913 ug/l
RT: 10.63 min Scan# 926
Delta R.T. 0.01 min
Lab File: VD060111.D
Acq: 2 Oct 2018 12:52

Tgt Ion: 129 Resp: 290939
Ion Ratio Lower Upper
129 100
127 78.1 37.4 112.2





#61

1,2-Dibromoethane

Concen: 19.893 ug/l

RT: 10.75 min Scan# 938

Delta R.T. 0.01 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

Instrument :

MSVOA_D

ClientSampleId :

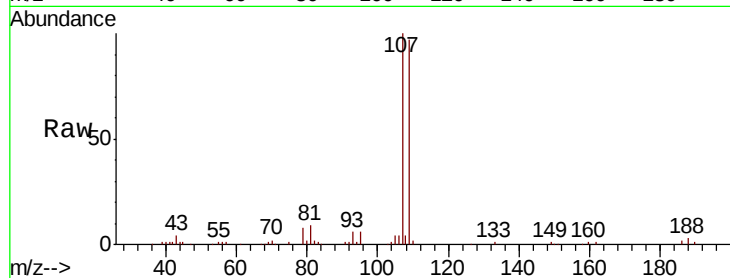
VD1002SBSD01

Tot Ion:107 Resp: 251710

Ion Ratio Lower Upper

107 100

109 97.2 77.1 115.7



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V

10.75

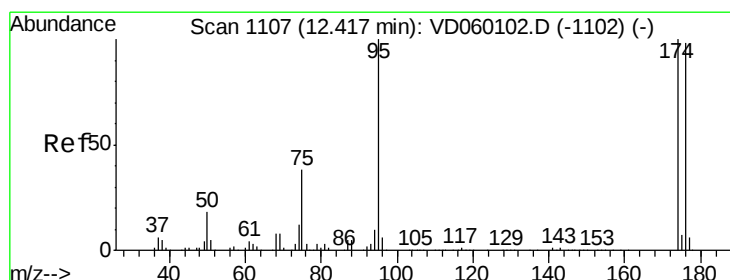
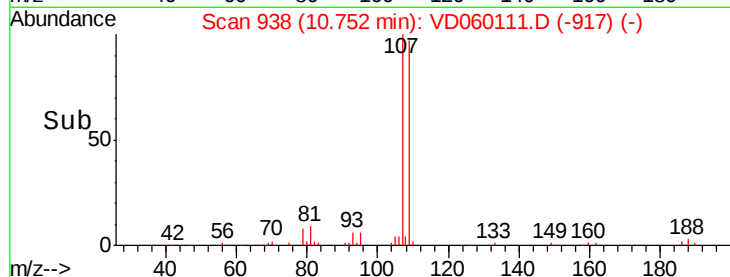
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 19.893 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. -0.00 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

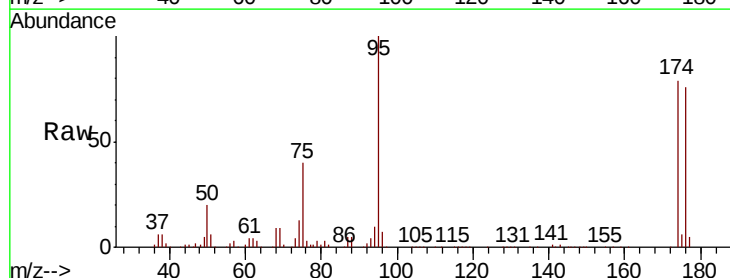
Tgt Ion: 95 Resp: 942128

Ion Ratio Lower Upper

95 100

174 78.7 0.0 200.2

176 75.8 0.0 195.6



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

800000

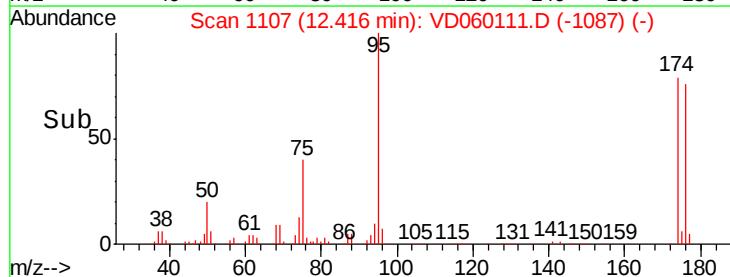
600000

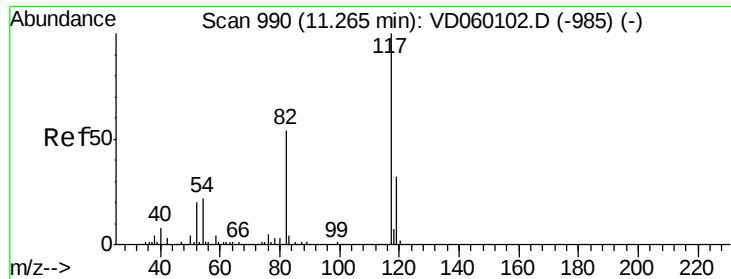
400000

200000

0

Time-->

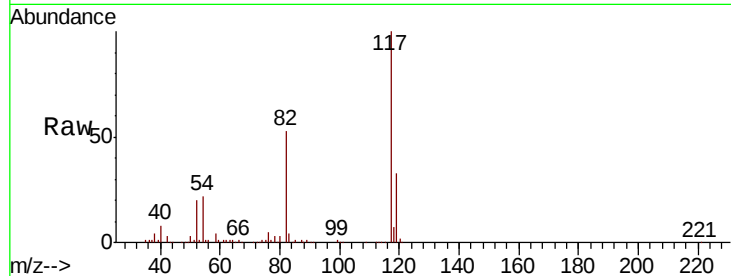




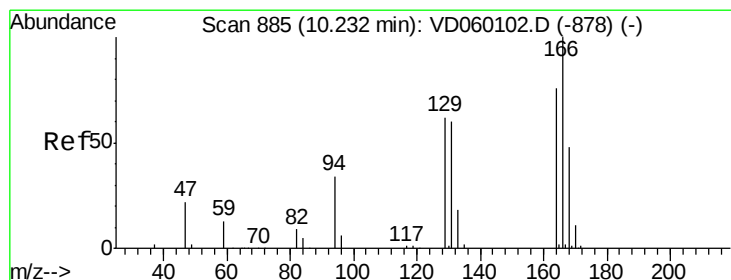
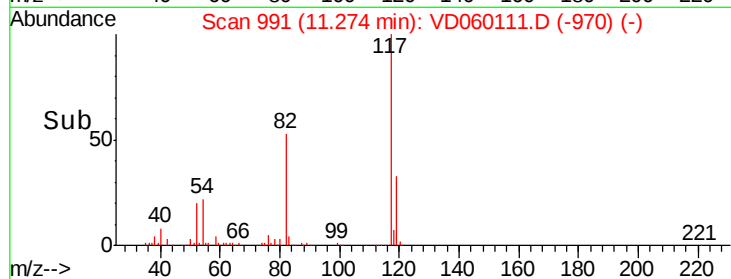
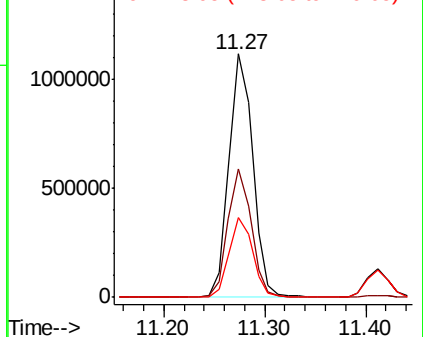
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.27 min Scan# 991
Delta R.T. 0.01 min
Lab File: VD060111.D
Acq: 2 Oct 2018 12:52

Instrument :
MSVOA_D
ClientSampleId :
VD1002SBSD01

Tot Ion:117 Resp: 1836064
Ion Ratio Lower Upper
117 100
82 53.0 43.4 65.2
119 32.7 26.0 39.0

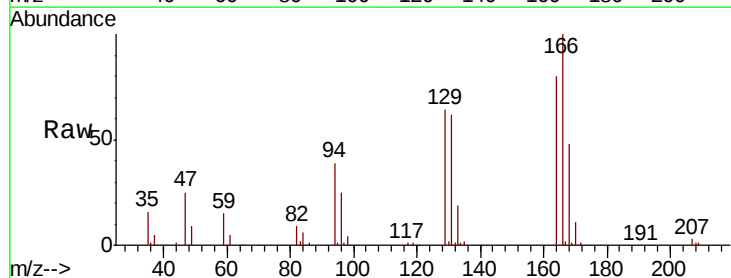


Abundance Ion 116.95 (116.65 to 117.65): V
1500000 Ion 82.05 (81.75 to 82.75): VD
Ion 118.95 (118.65 to 119.65): V

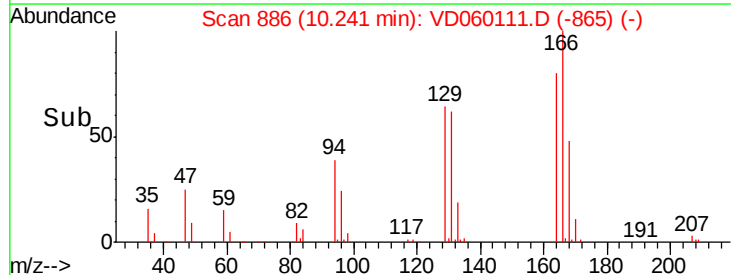
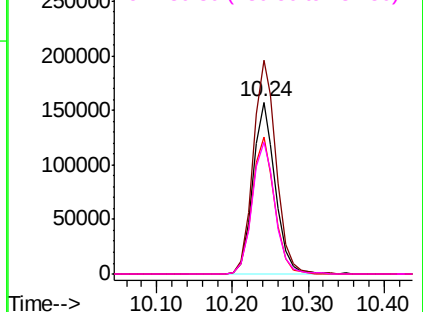


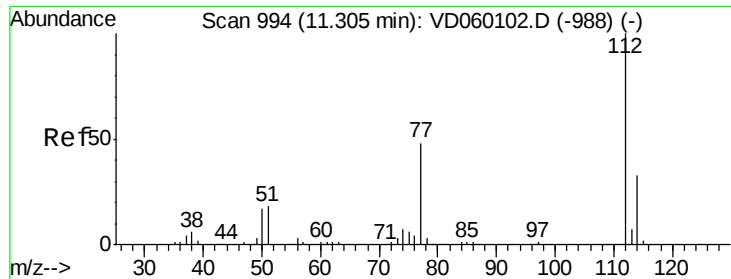
#64
Tetrachloroethene
Concen: 20.230 ug/l
RT: 10.24 min Scan# 886
Delta R.T. 0.01 min
Lab File: VD060111.D
Acq: 2 Oct 2018 12:52

Tgt Ion:164 Resp: 325323
Ion Ratio Lower Upper
164 100
166 124.3 105.4 158.0
129 79.9 65.7 98.5
131 76.5 62.9 94.3



Abundance Ion 163.85 (163.55 to 164.55): V
300000 Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

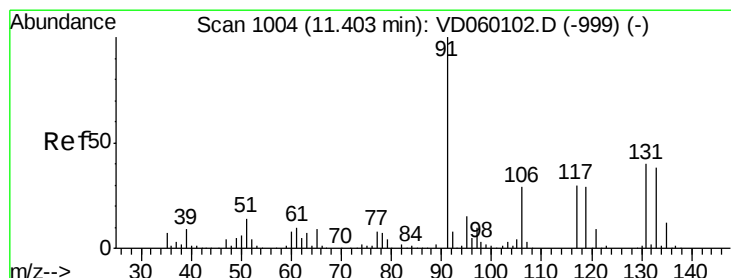
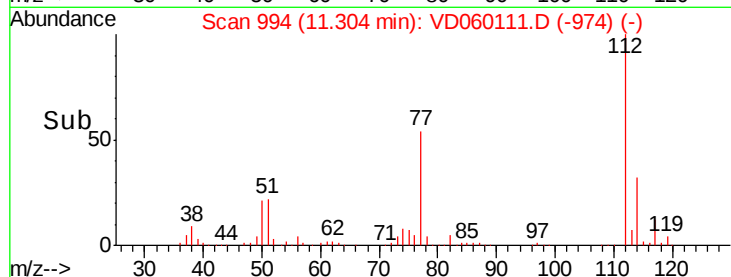
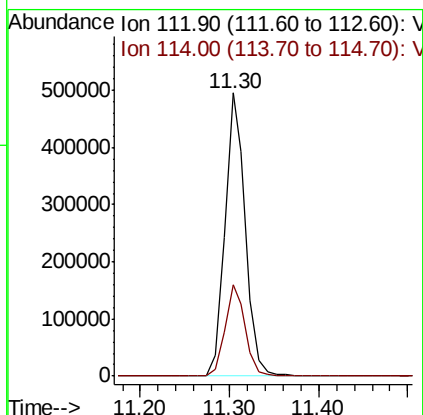
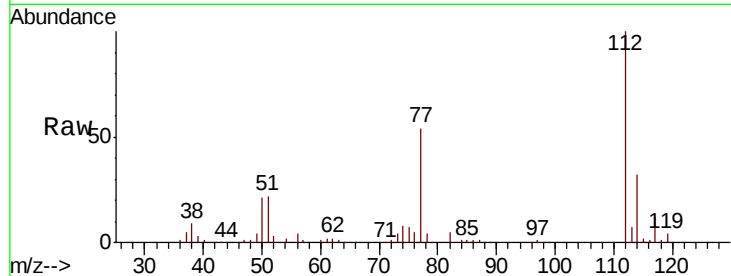




#65
Chlorobenzene
Concen: 20.013 ug/l
RT: 11.30 min Scan# 994
Delta R.T. -0.00 min
Lab File: VD060111.D
Acq: 2 Oct 2018 12:52

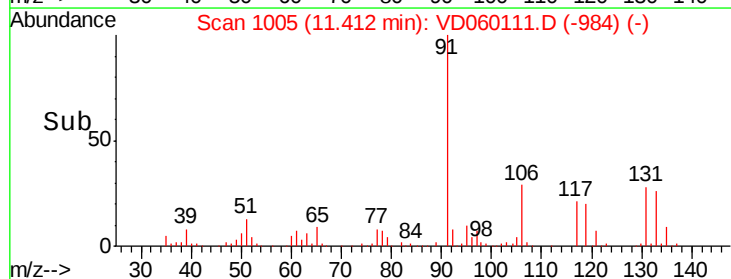
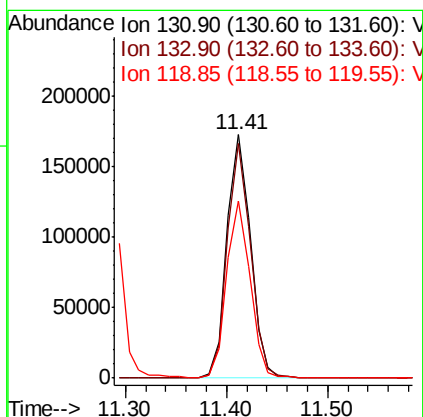
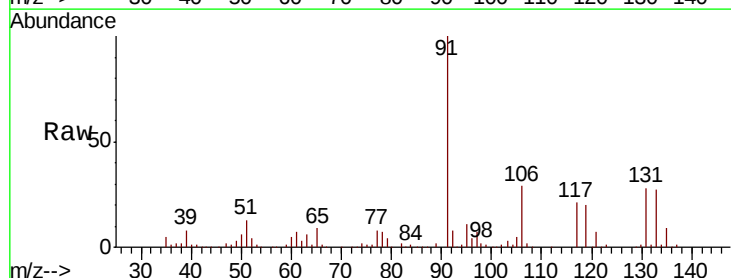
Instrument :
MSVOA_D
ClientSampleId :
VD1002SBSD01

Tot Ion:112 Resp: 794927
Ion Ratio Lower Upper
112 100
114 32.3 26.0 39.0



#66
1,1,1,2-Tetrachloroethane
Concen: 21.178 ug/l
RT: 11.41 min Scan# 1005
Delta R.T. 0.01 min
Lab File: VD060111.D
Acq: 2 Oct 2018 12:52

Tgt Ion:131 Resp: 280631
Ion Ratio Lower Upper
131 100
133 96.3 47.4 142.3
119 72.9 36.1 108.3

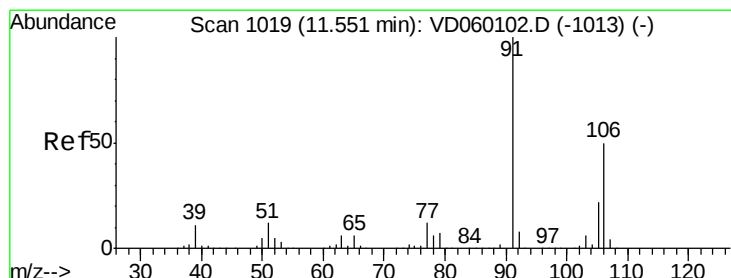
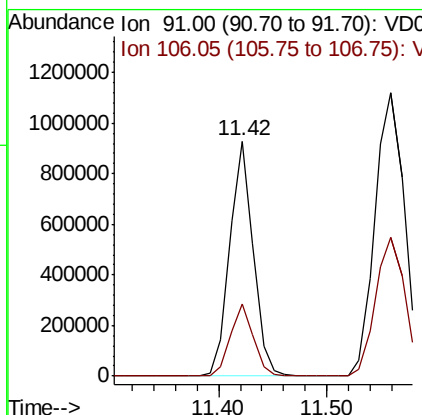
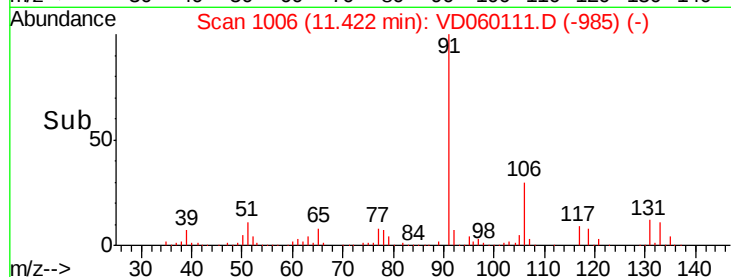
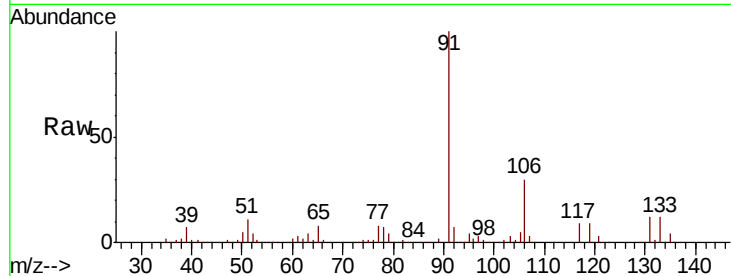




#67
Ethyl Benzene
Concen: 21.923 ug/l
RT: 11.42 min Scan# 1006
Delta R.T. 0.01 min
Lab File: VD060111.D
Acq: 2 Oct 2018 12:52

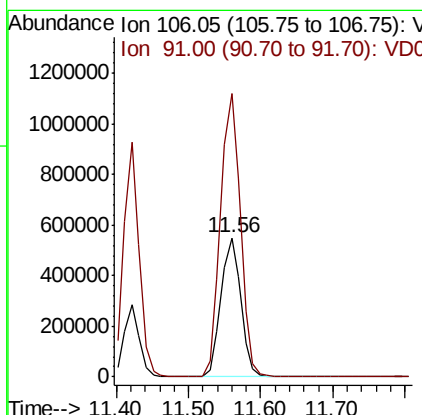
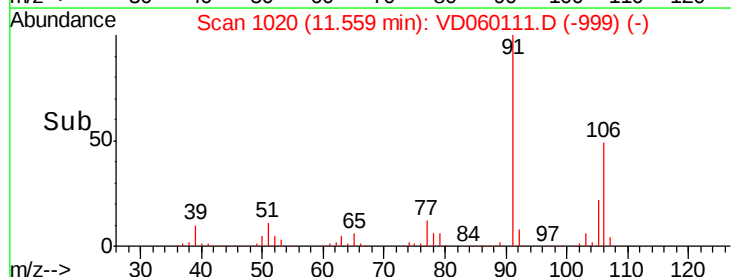
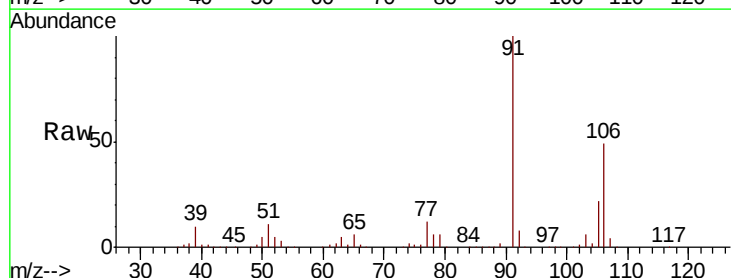
Instrument :
MSVOA_D
ClientSampleId :
VD1002SBS01

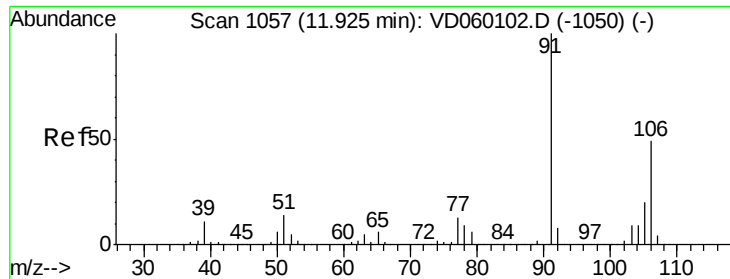
Tot Ion: 91 Resp: 1410885
Ion Ratio Lower Upper
91 100
106 30.4 24.4 36.6



#68
m/p-Xylenes
Concen: 43.426 ug/l
RT: 11.56 min Scan# 1020
Delta R.T. 0.01 min
Lab File: VD060111.D
Acq: 2 Oct 2018 12:52

Tgt Ion: 106 Resp: 1044187
Ion Ratio Lower Upper
106 100
91 203.8 160.0 240.0

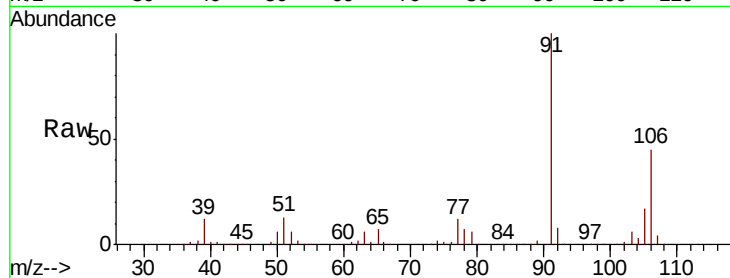




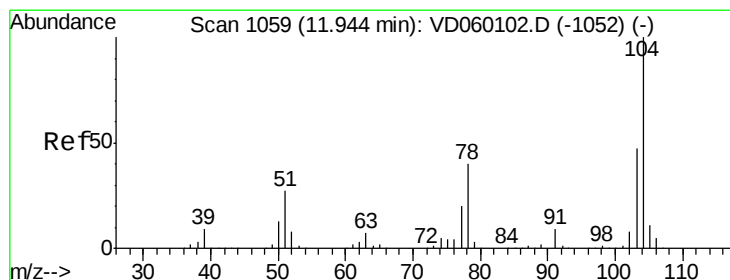
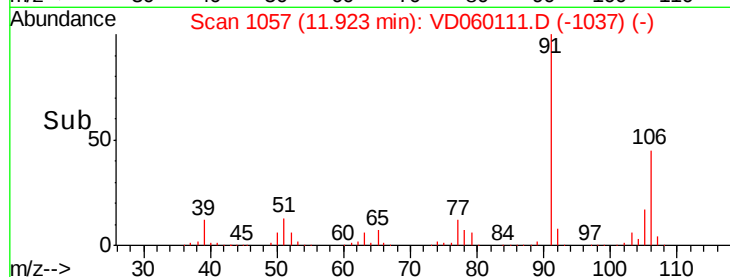
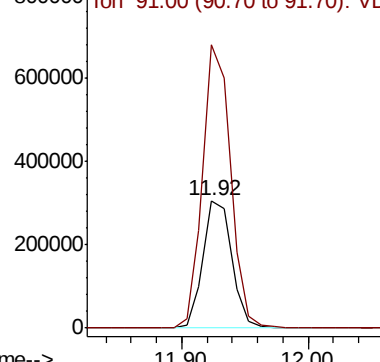
#69
o-Xylene
Concen: 20.325 ug/l
RT: 11.92 min Scan# 1057
Delta R.T. -0.00 min
Lab File: VD060111.D
Acq: 2 Oct 2018 12:52

Instrument :
MSVOA_D
ClientSampleId :
VD1002SBSD01

Tot Ion:106 Resp: 483410
Ion Ratio Lower Upper
106 100
91 221.4 102.5 307.5

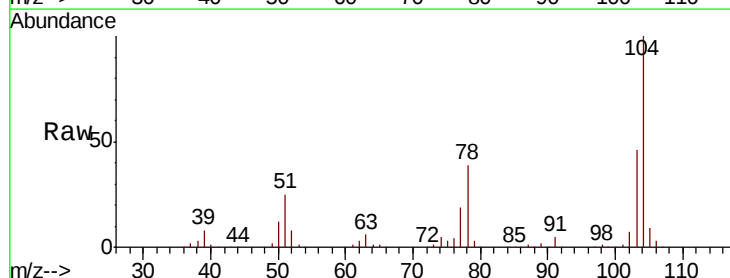


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

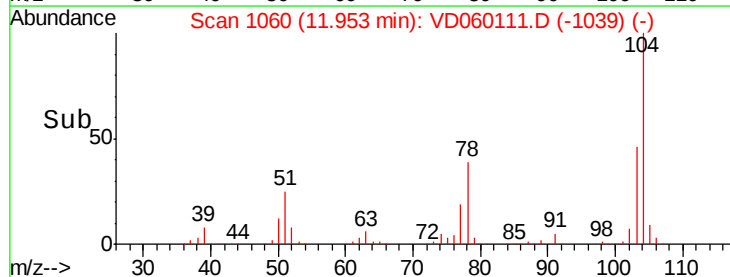
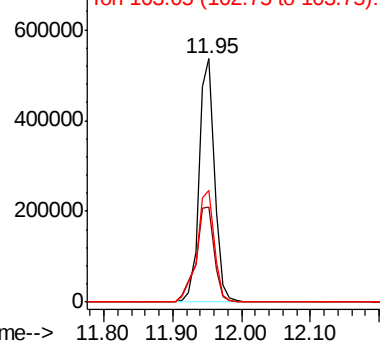


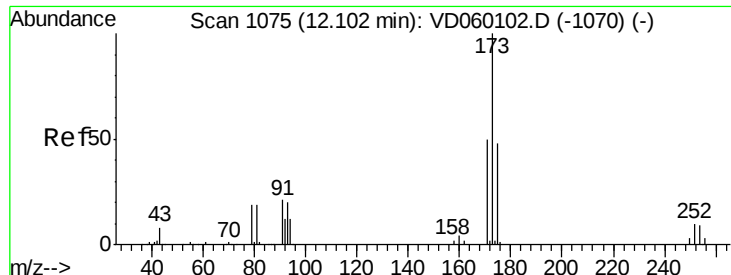
#70
Styrene
Concen: 20.845 ug/l
RT: 11.95 min Scan# 1060
Delta R.T. 0.01 min
Lab File: VD060111.D
Acq: 2 Oct 2018 12:52

Tgt Ion:104 Resp: 829080
Ion Ratio Lower Upper
104 100
78 39.2 32.2 48.4
103 46.0 37.4 56.0



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





#71

Bromoform

Concen: 19.368 ug/l

RT: 12.11 min Scan# 1076

Delta R.T. 0.01 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

Instrument :

MSVOA_D

ClientSampleId :

VD1002SBSD01

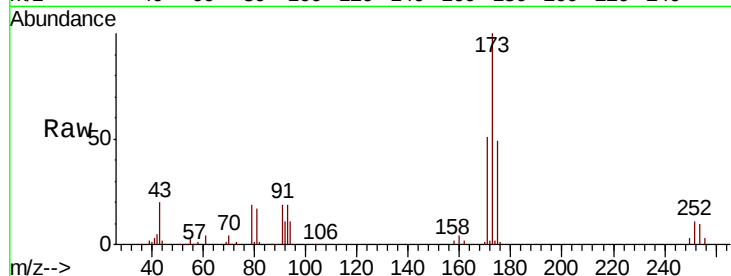
Tot Ion:173 Resp: 207813

Ion Ratio Lower Upper

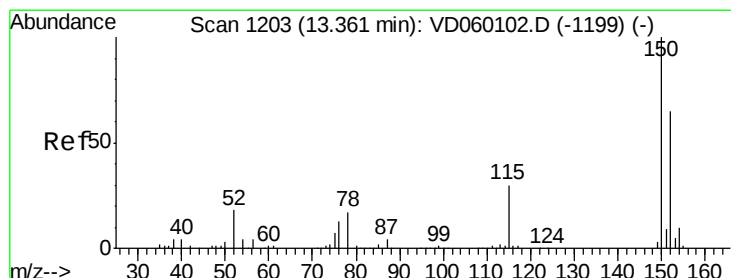
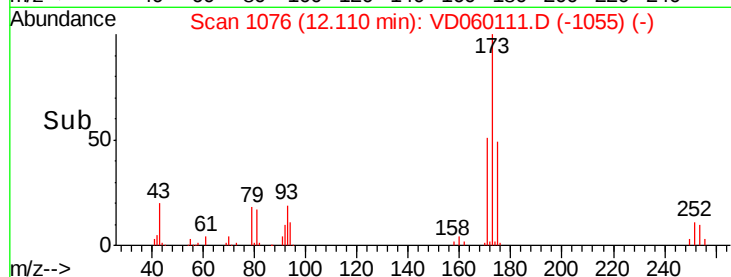
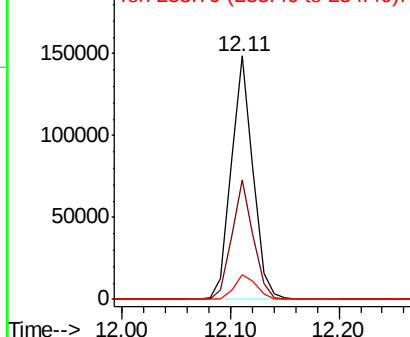
173 100

175 49.2 24.1 72.4

254 10.0 7.4 11.0



Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.37 min Scan# 1204

Delta R.T. 0.01 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

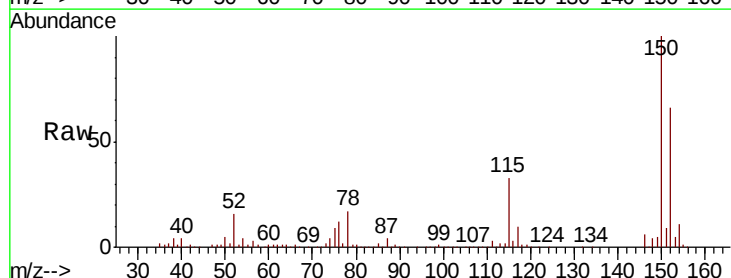
Tgt Ion:152 Resp: 957015

Ion Ratio Lower Upper

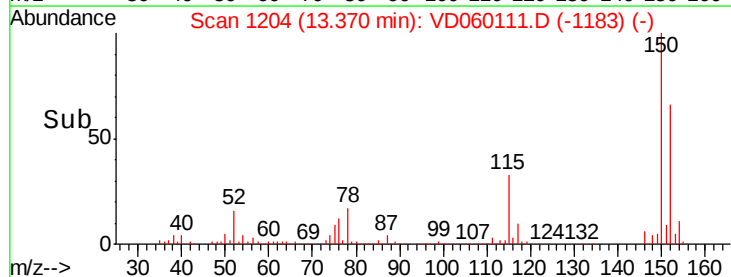
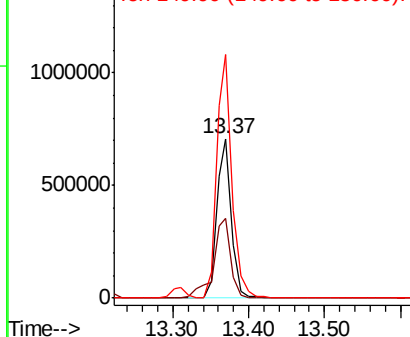
152 100

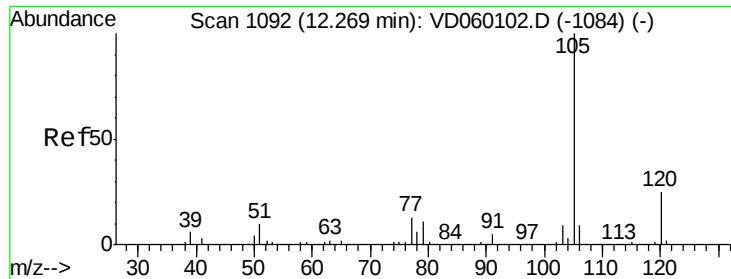
115 49.7 27.1 81.2

150 152.6 0.0 311.8



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: 21.299 ug/l

RT: 12.27 min Scan# 1092

Delta R.T. -0.00 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

Instrument :

MSVOA_D

ClientSampleId :

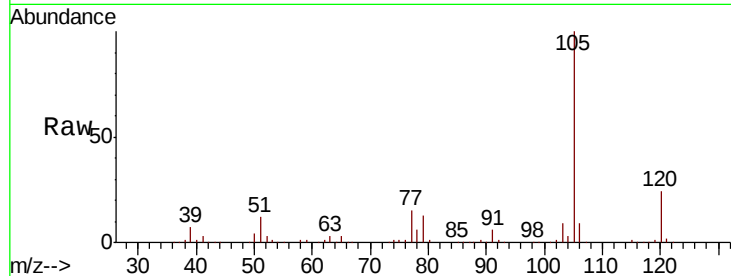
VD1002SBSD01

Tot Ion:105 Resp: 1344751

Ion Ratio Lower Upper

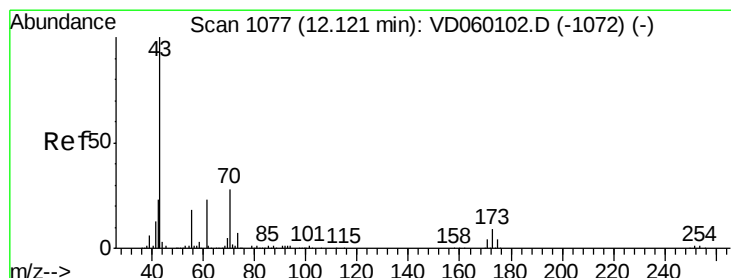
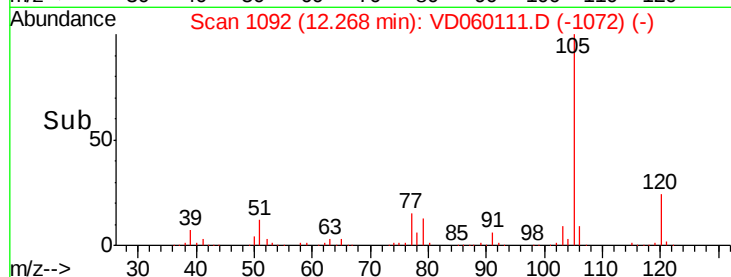
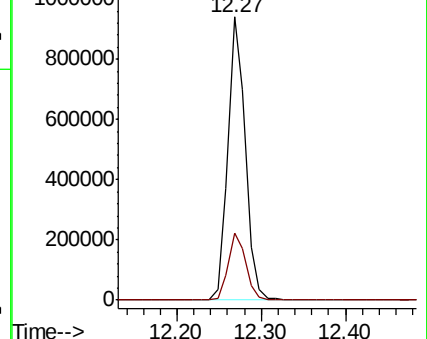
105 100

120 23.8 12.6 37.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 20.402 ug/l

RT: 12.13 min Scan# 1078

Delta R.T. 0.01 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

Tgt Ion: 43 Resp: 471814

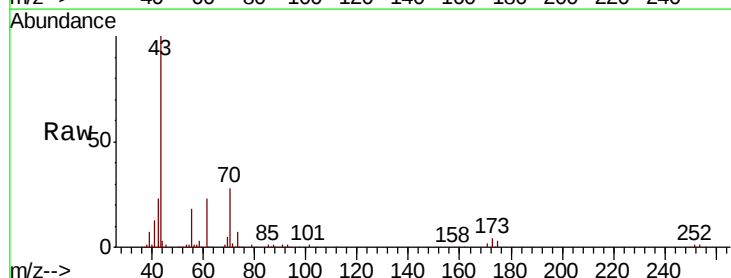
Ion Ratio Lower Upper

43 100

70 28.1 22.1 33.1

55 17.8 14.1 21.1

61 23.0 18.4 27.6

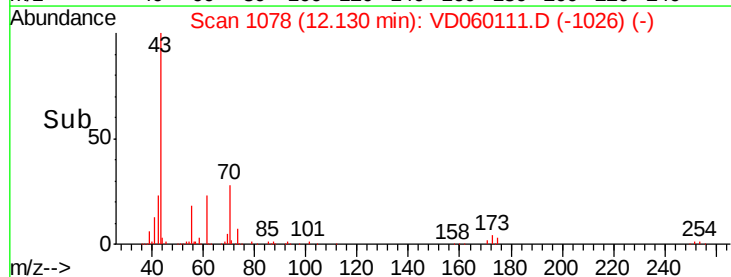
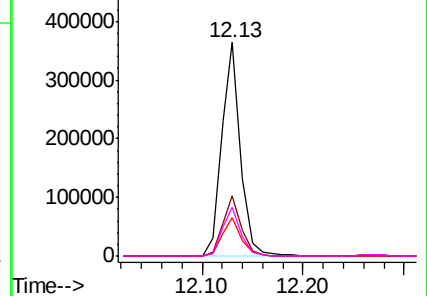


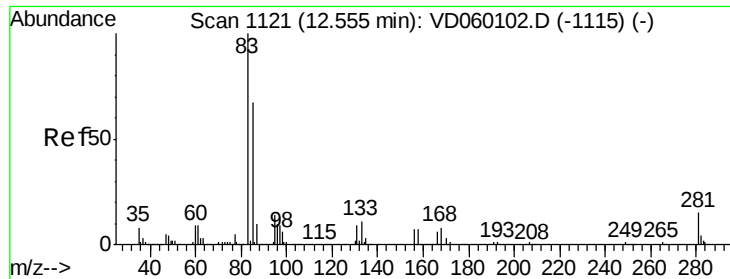
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 19.942 ug/l

RT: 12.55 min Scan# 1121

Delta R.T. -0.00 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

Instrument :

MSVOA_D

ClientSampleId :

VD1002SBSD01

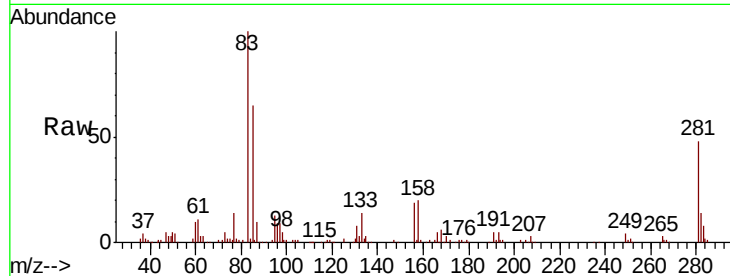
Tot Ion: 83 Resp: 274868

Ion Ratio Lower Upper

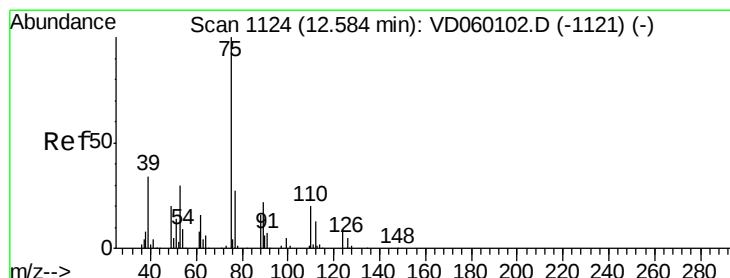
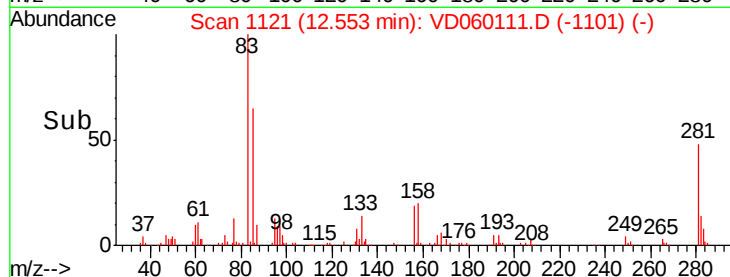
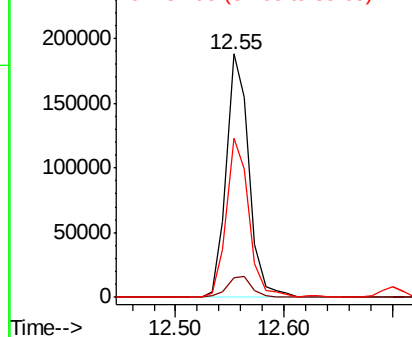
83 100

131 8.3 4.5 13.4

85 65.3 33.3 99.9



Abundance Ion 82.95 (82.65 to 83.65): VDC
Ion 130.90 (130.60 to 131.60): VDC
Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 20.471 ug/l

RT: 12.59 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VD060111.D

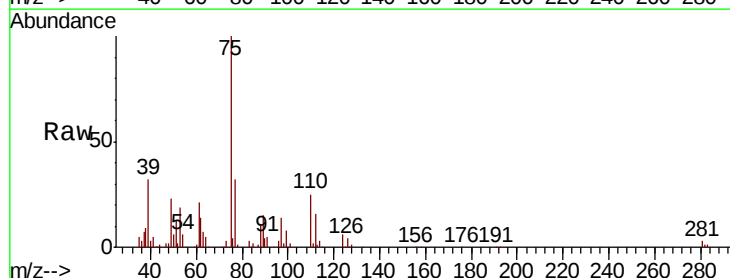
Acq: 2 Oct 2018 12:52

Tgt Ion: 75 Resp: 282142

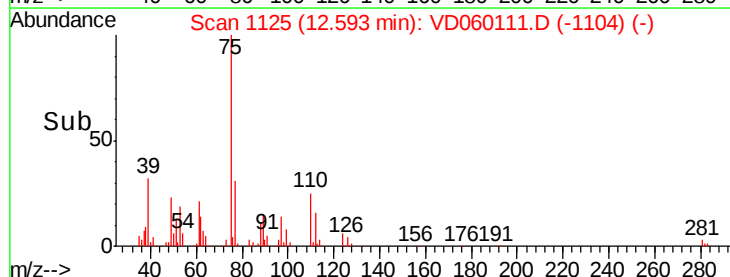
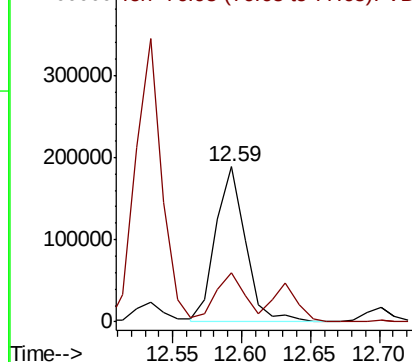
Ion Ratio Lower Upper

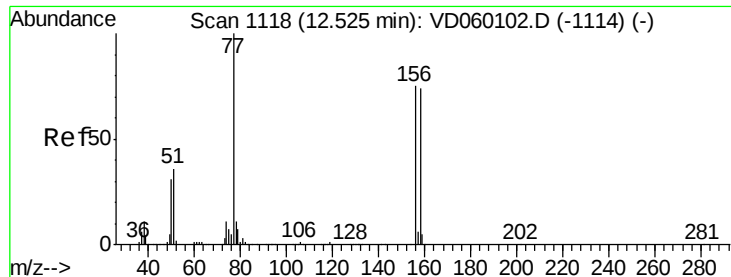
75 100

77 31.6 16.3 48.9



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 20.289 ug/l

RT: 12.53 min Scan# 1119

Delta R.T. 0.01 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

Instrument :

MSVOA_D

ClientSampleId :

VD1002SBSD01

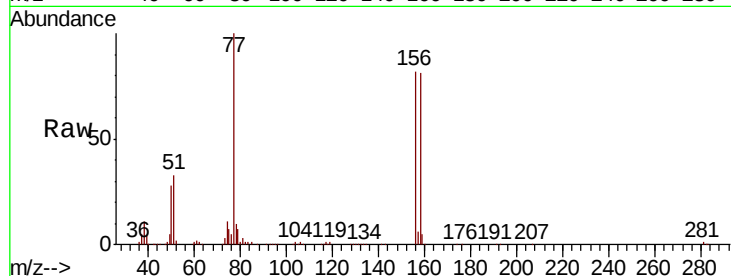
Tot Ion:156 Resp: 372242

Ion Ratio Lower Upper

156 100

77 122.0 66.9 200.7

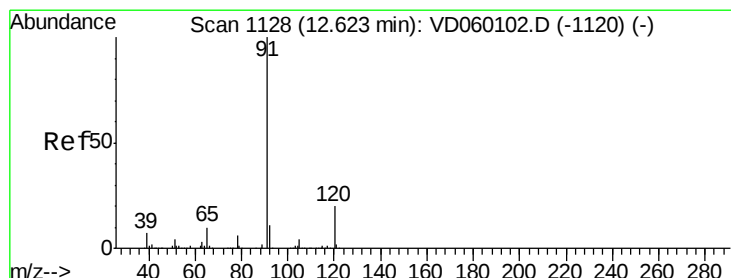
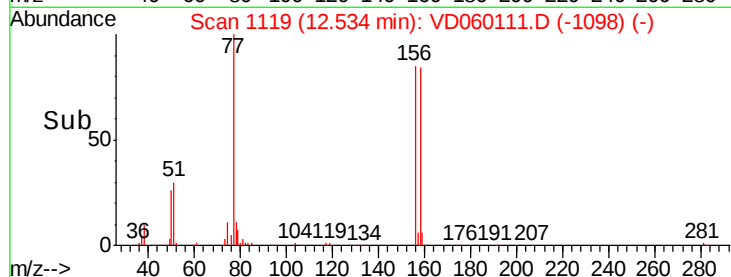
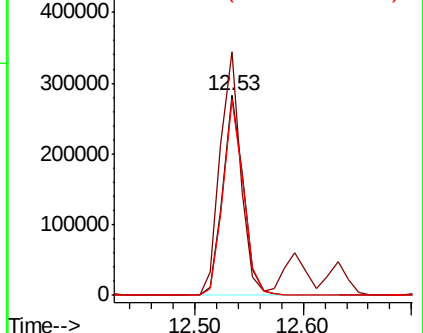
158 98.7 49.1 147.4



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 21.748 ug/l

RT: 12.63 min Scan# 1129

Delta R.T. 0.01 min

Lab File: VD060111.D

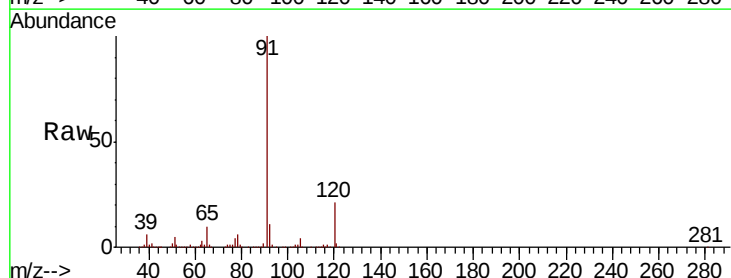
Acq: 2 Oct 2018 12:52

Tgt Ion: 91 Resp: 1704994

Ion Ratio Lower Upper

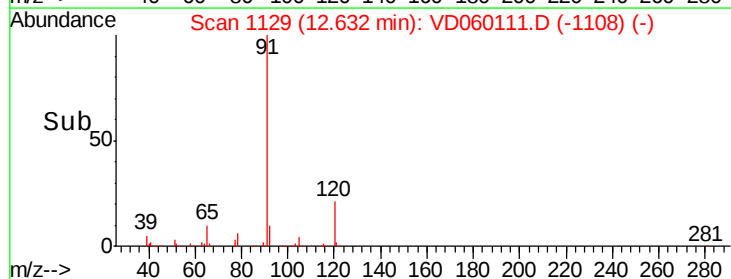
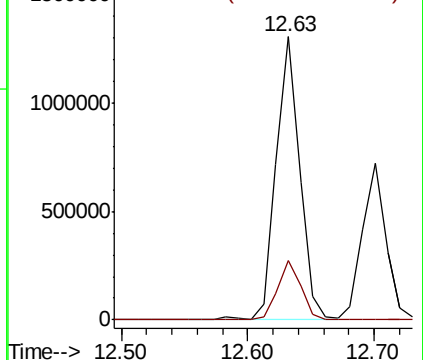
91 100

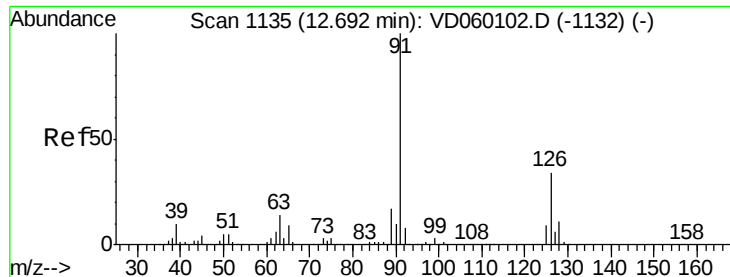
120 20.9 10.0 30.0



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 21.246 ug/l

RT: 12.70 min Scan# 1136

Delta R.T. 0.01 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

Instrument :

MSVOA_D

ClientSampleId :

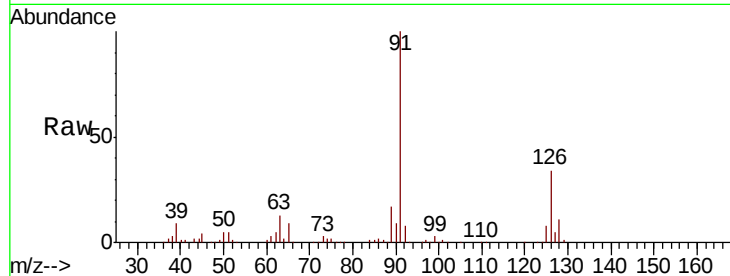
VD1002SBSD01

Tot Ion: 91 Resp: 924423

Ion Ratio Lower Upper

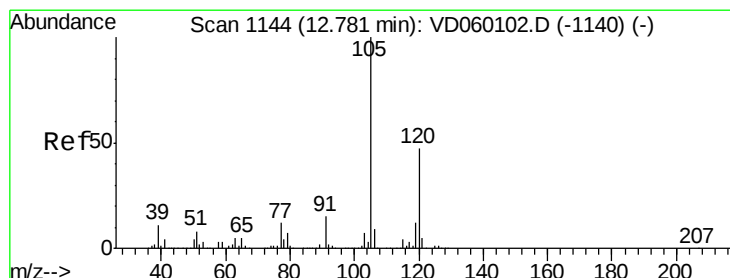
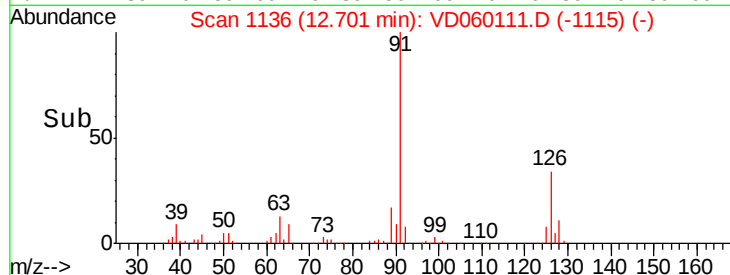
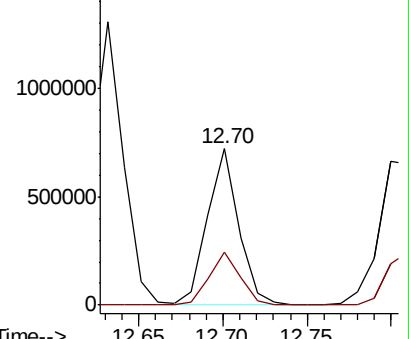
91 100

126 33.9 16.8 50.3



Abundance Ion 91.00 (90.70 to 91.70): VD060111.D (-1135) (-)

Ion 125.95 (125.65 to 126.65): VD060111.D (-1135) (-)



#80

1,3,5-Trimethylbenzene

Concen: 21.380 ug/l

RT: 12.79 min Scan# 1145

Delta R.T. 0.01 min

Lab File: VD060111.D

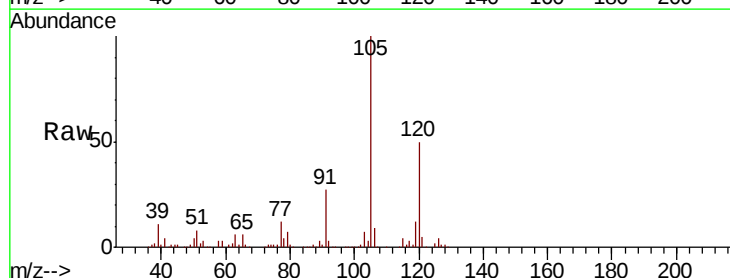
Acq: 2 Oct 2018 12:52

Tgt Ion:105 Resp: 1044748

Ion Ratio Lower Upper

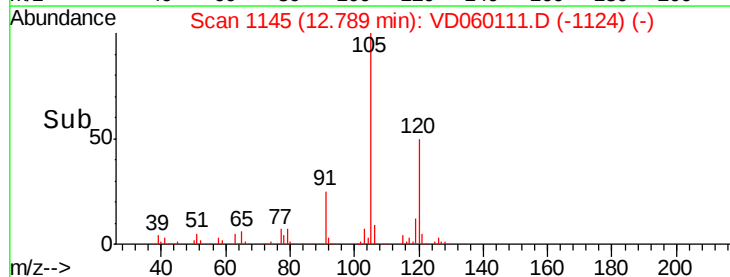
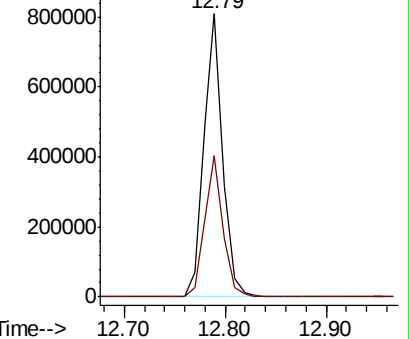
105 100

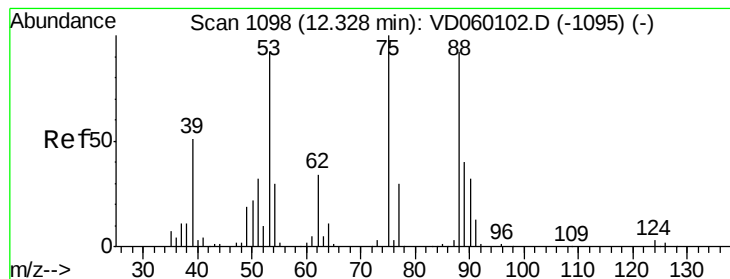
120 49.7 23.7 71.1



Abundance Ion 105.05 (104.75 to 105.75): VD060111.D (-1124) (-)

Ion 120.05 (119.75 to 120.75): VD060111.D (-1124) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 19.903 ug/l

RT: 12.34 min Scan# 1099

Delta R.T. 0.01 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

Instrument :

MSVOA_D

ClientSampleId :

VD1002SBSD01

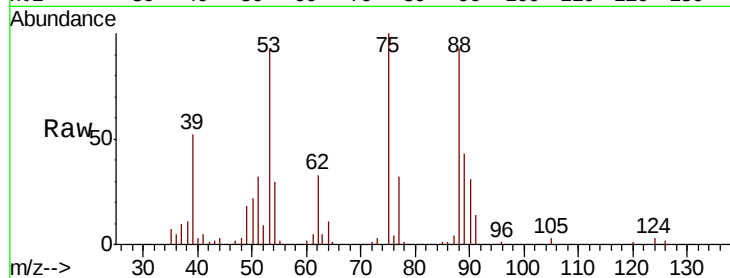
Tot Ion: 75 Resp: 77076

Ion Ratio Lower Upper

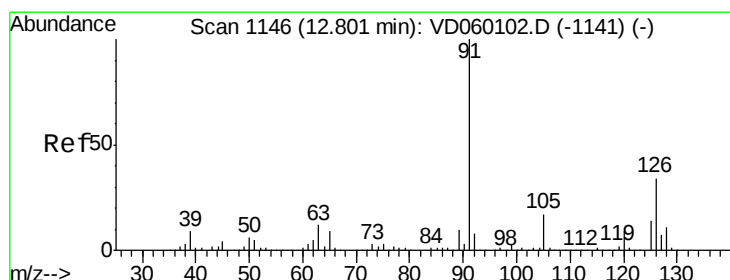
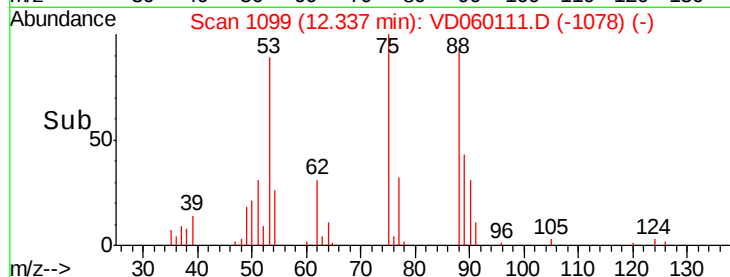
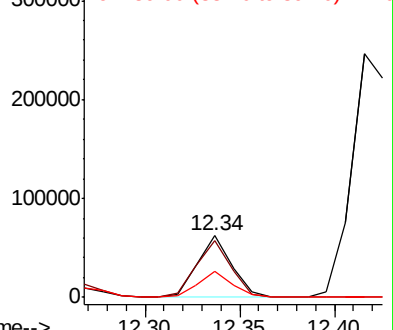
75 100

53 92.0 73.0 109.6

89 42.8 32.0 48.0



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: 21.906 ug/l

RT: 12.80 min Scan# 1146

Delta R.T. -0.00 min

Lab File: VD060111.D

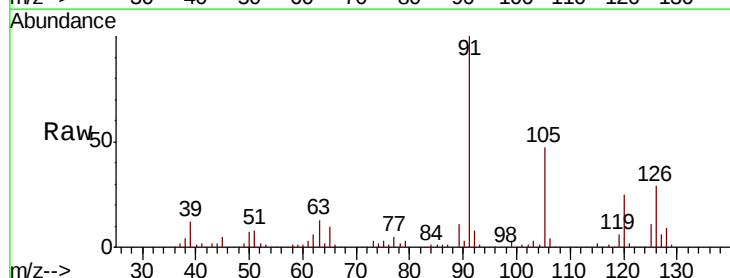
Acq: 2 Oct 2018 12:52

Tgt Ion: 91 Resp: 1078075

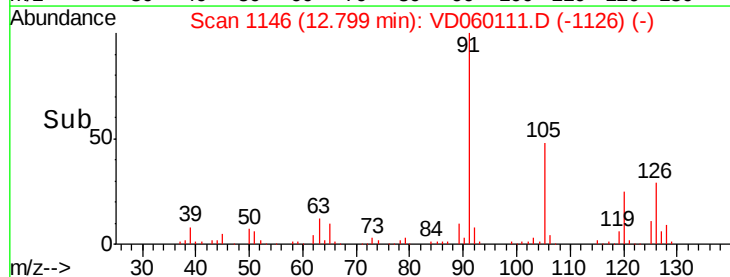
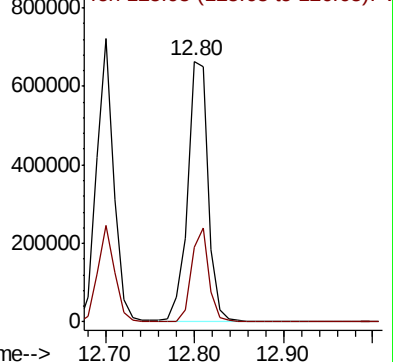
Ion Ratio Lower Upper

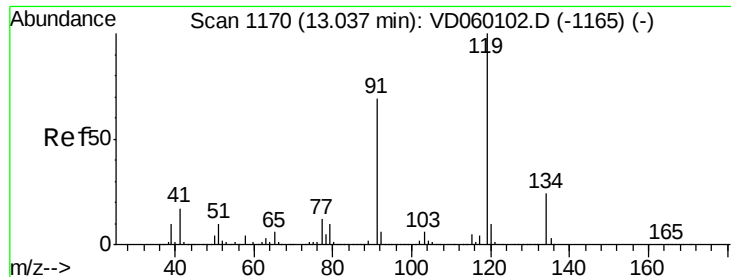
91 100

126 28.7 17.1 51.2



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V

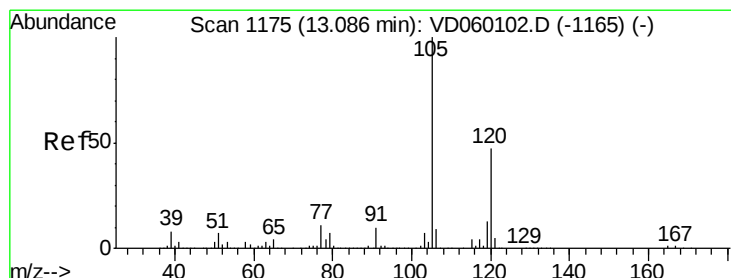
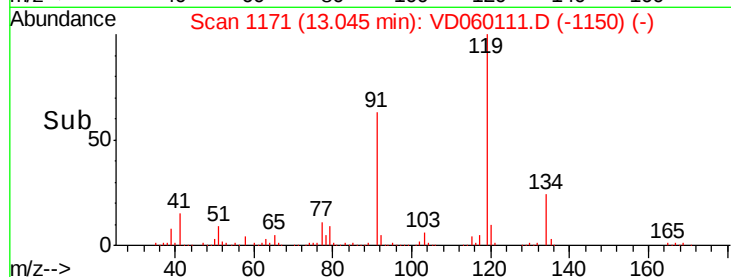
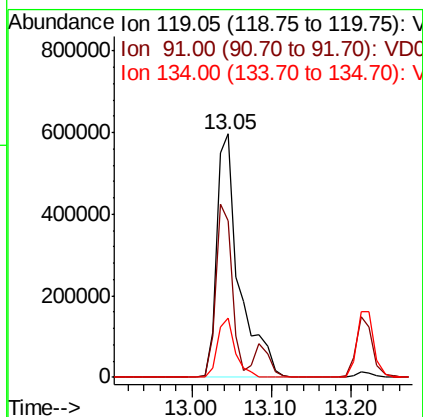
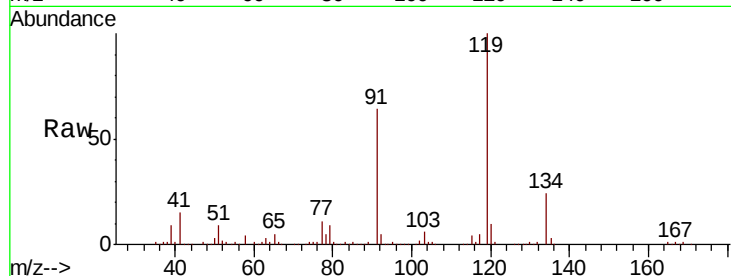




#83
tert-Butylbenzene
Concen: 21.077 ug/l
RT: 13.05 min Scan# 1171
Delta R.T. 0.01 min
Lab File: VD060111.D
Acq: 2 Oct 2018 12:52

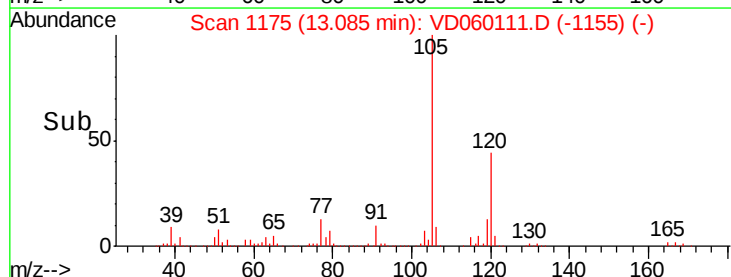
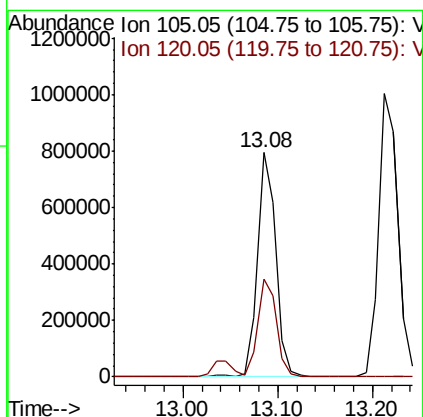
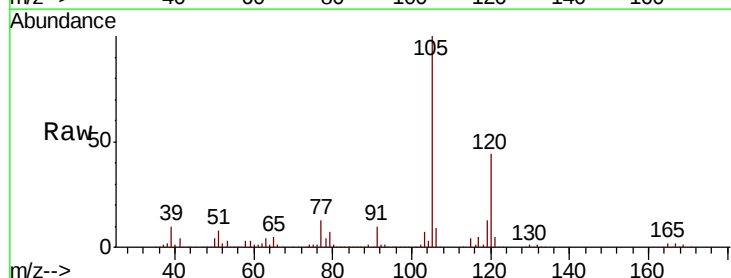
Instrument :
MSVOA_D
ClientSampleId :
VD1002SBSD01

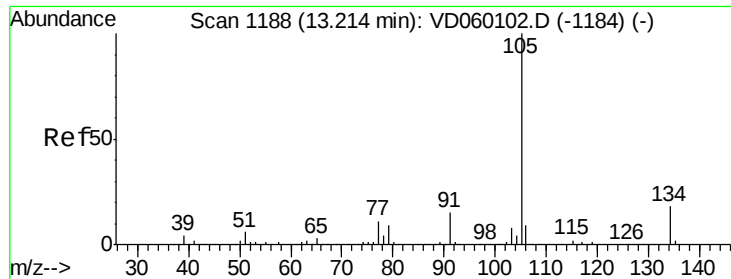
Tot Ion:119 Resp: 1181871
Ion Ratio Lower Upper
119 100
91 64.4 34.8 104.4
134 24.2 11.8 35.4



#84
1,2,4-Trimethylbenzene
Concen: 20.676 ug/l
RT: 13.08 min Scan# 1175
Delta R.T. -0.00 min
Lab File: VD060111.D
Acq: 2 Oct 2018 12:52

Tgt Ion:105 Resp: 1064819
Ion Ratio Lower Upper
105 100
120 43.8 23.4 70.0





#85

sec-Butylbenzene

Concen: 21.559 ug/l

RT: 13.21 min Scan# 1188

Delta R.T. -0.00 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

Instrument :

MSVOA_D

ClientSampleId :

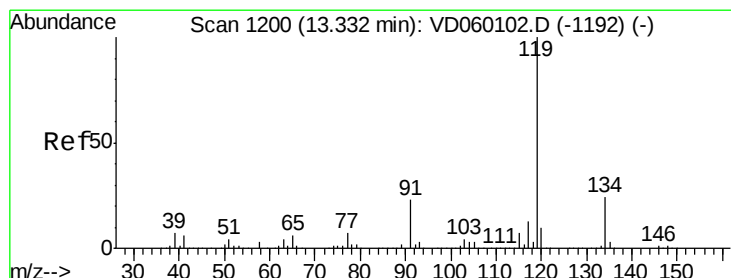
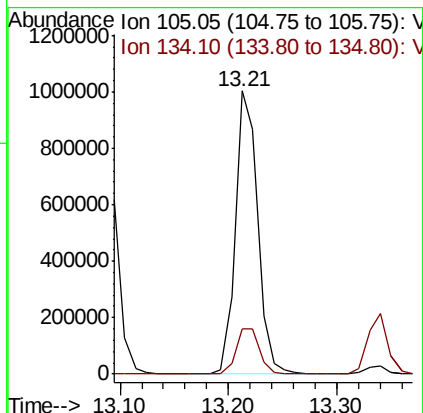
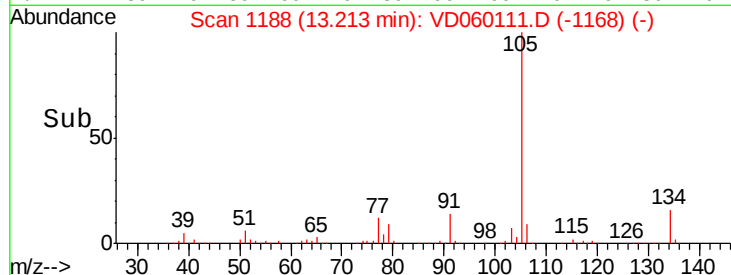
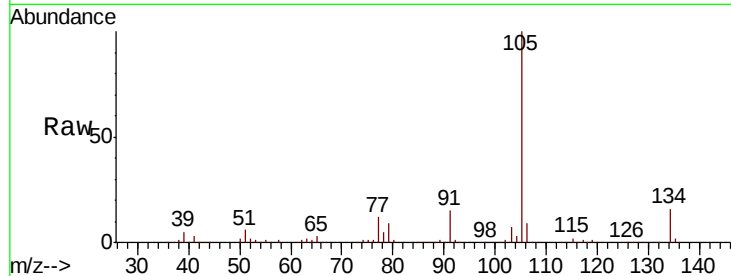
VD1002SBSD01

Tot Ion:105 Resp: 1429388

Ion Ratio Lower Upper

105 100

134 16.0 8.8 26.2



#86

p-Isopropyltoluene

Concen: 20.785 ug/l

RT: 13.34 min Scan# 1201

Delta R.T. 0.01 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

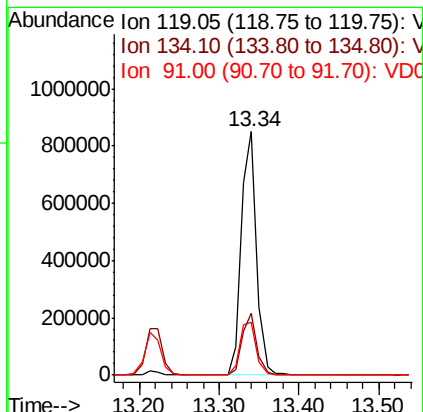
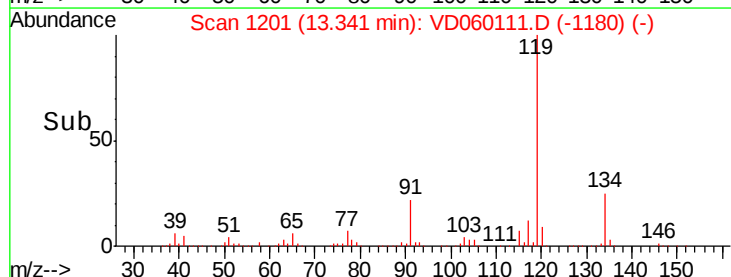
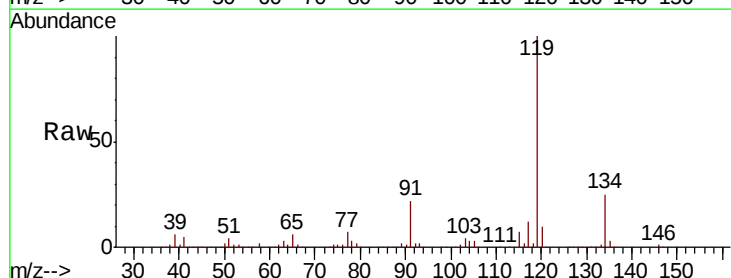
Tgt Ion:119 Resp: 1130308

Ion Ratio Lower Upper

119 100

134 25.2 12.3 36.8

91 21.6 11.8 35.4

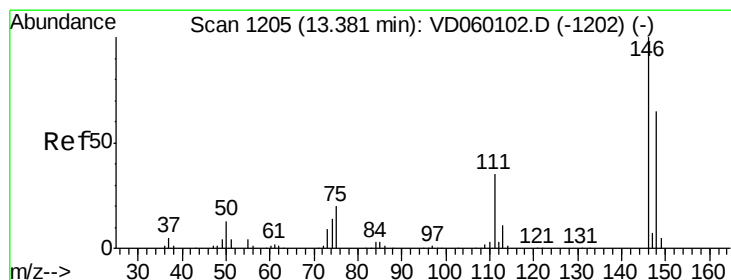
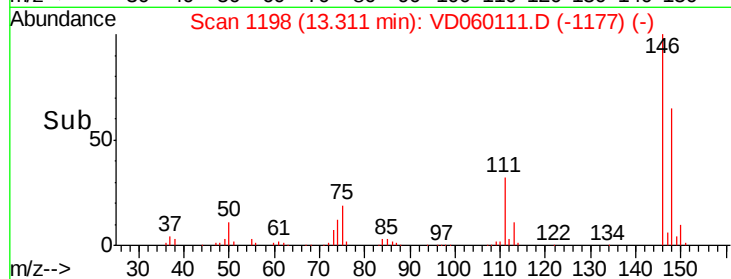
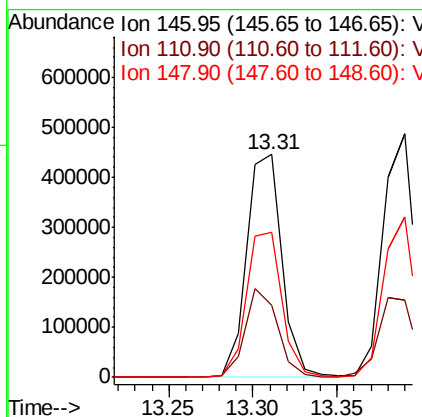
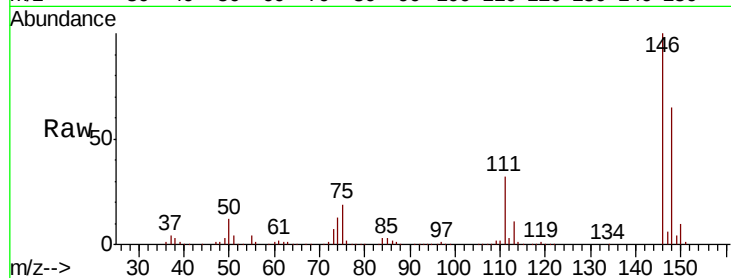




#87
 1,3-Dichlorobenzene
 Concen: 20.303 ug/l
 RT: 13.31 min Scan# 1198
 Delta R.T. 0.01 min
 Lab File: VD060111.D
 Acq: 2 Oct 2018 12:52

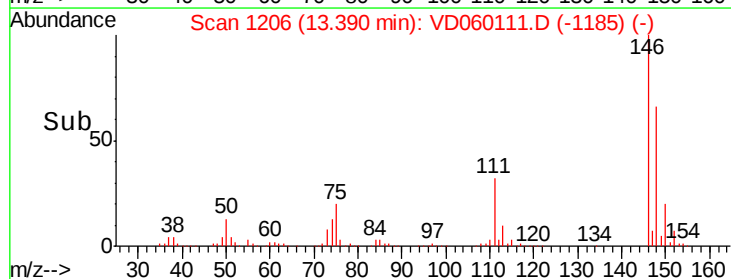
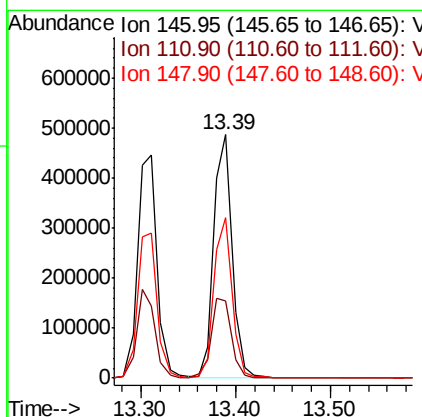
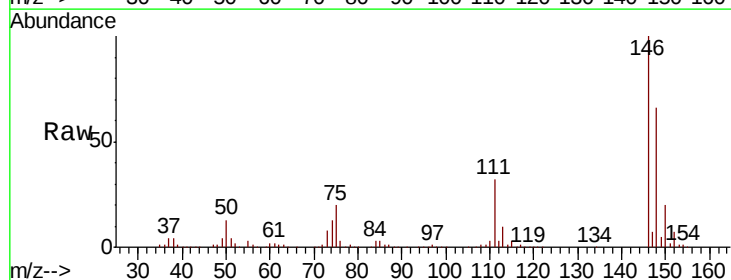
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1002SBSD01

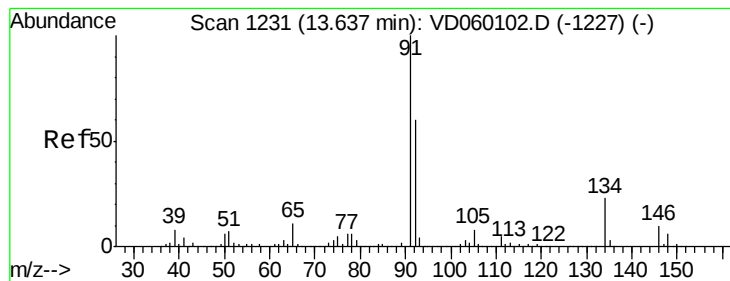
Tot Ion:146 Resp: 648980
 Ion Ratio Lower Upper
 146 100
 111 32.2 18.1 54.3
 148 65.0 32.3 96.9



#88
 1,4-Dichlorobenzene
 Concen: 20.578 ug/l
 RT: 13.39 min Scan# 1206
 Delta R.T. 0.01 min
 Lab File: VD060111.D
 Acq: 2 Oct 2018 12:52

Tgt Ion:146 Resp: 660699
 Ion Ratio Lower Upper
 146 100
 111 31.9 17.8 53.3
 148 65.6 32.4 97.2





#89

n-Butylbenzene

Concen: 22.365 ug/l

RT: 13.65 min Scan# 1232

Delta R.T. 0.01 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

Instrument :

MSVOA_D

ClientSampleId :

VD1002SBS01

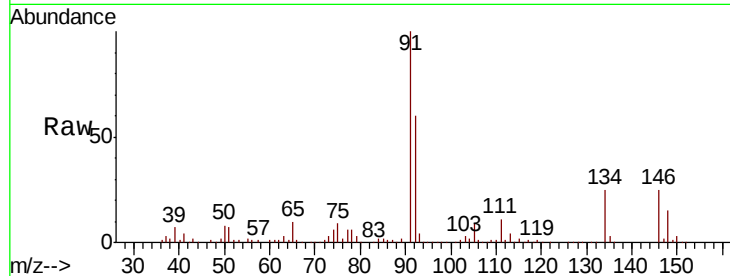
Tot Ion: 91 Resp: 1186712

Ion Ratio Lower Upper

91 100

92 60.1 30.1 90.3

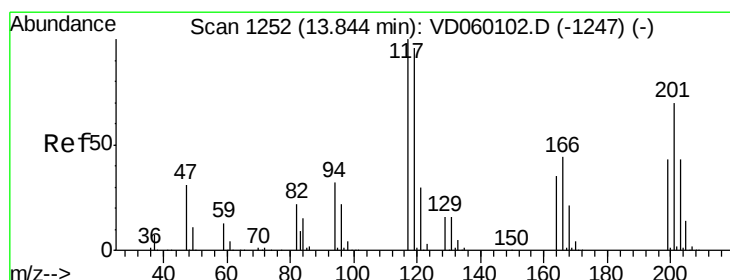
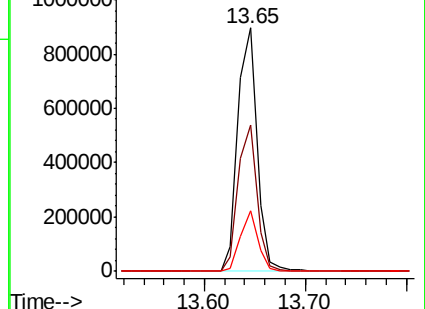
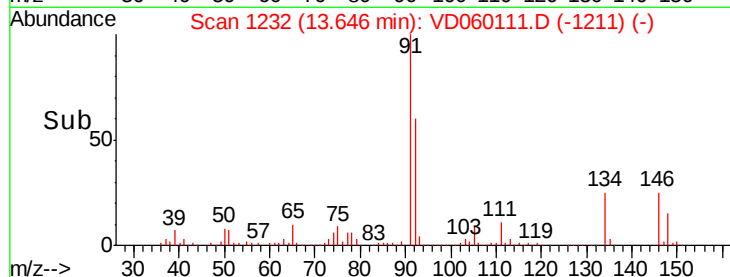
134 25.1 11.6 34.7



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.10 (133.80 to 134.80): VDC



#90

Hexachloroethane

Concen: 21.195 ug/l

RT: 13.85 min Scan# 1253

Delta R.T. 0.01 min

Lab File: VD060111.D

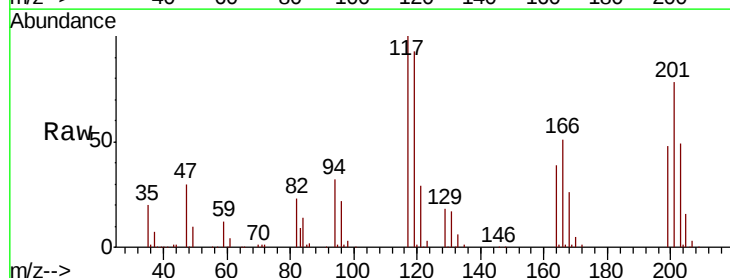
Acq: 2 Oct 2018 12:52

Tgt Ion: 117 Resp: 266747

Ion Ratio Lower Upper

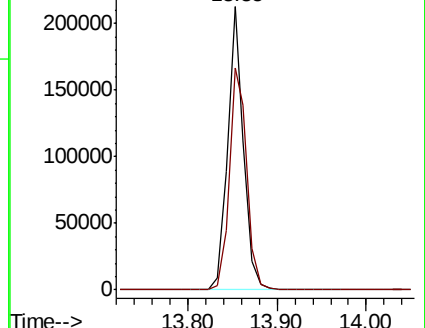
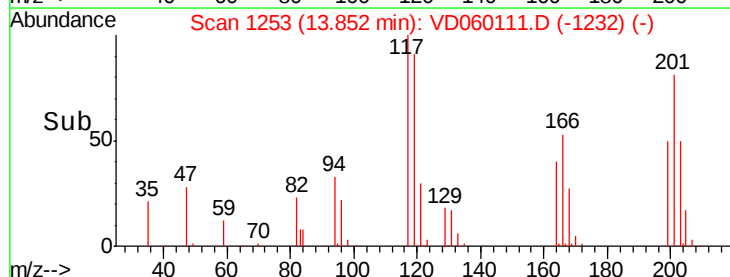
117 100

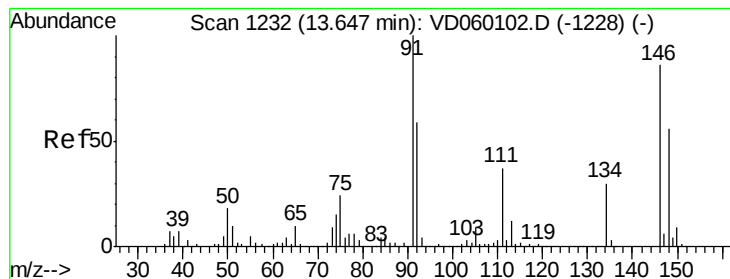
201 78.4 34.8 104.5



Abundance Ion 116.85 (116.55 to 117.55): VDC

Ion 200.75 (200.45 to 201.45): VDC





#91

1,2-Dichlorobenzene

Concen: 21.940 ug/l

RT: 13.66 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

Instrument :

MSVOA_D

ClientSampleId :

VD1002SBSD01

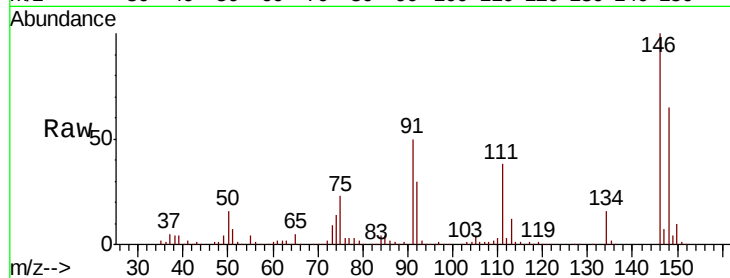
Tot Ion:146 Resp: 589688

Ion Ratio Lower Upper

146 100

111 37.6 21.4 64.3

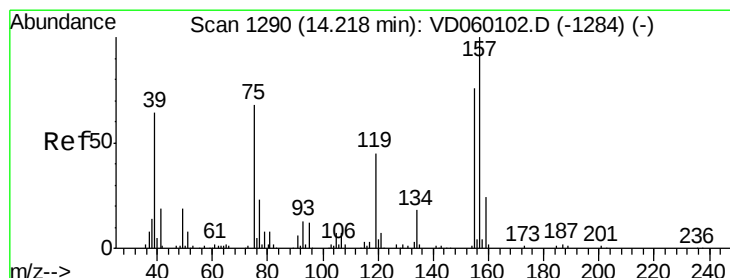
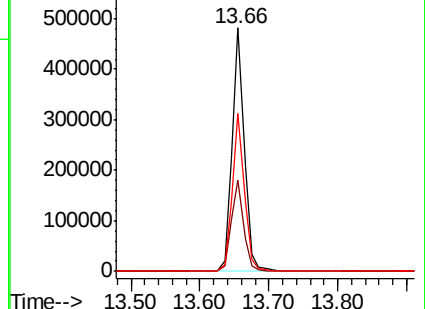
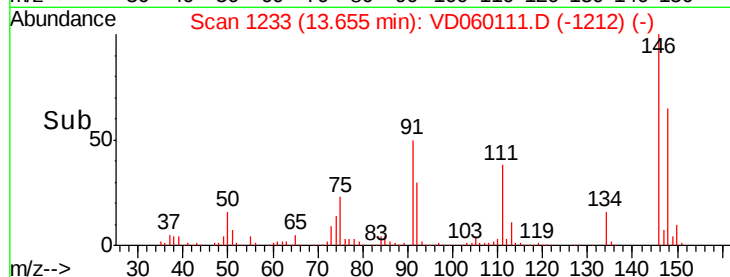
148 65.0 32.2 96.6



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: 20.230 ug/l

RT: 14.23 min Scan# 1291

Delta R.T. 0.01 min

Lab File: VD060111.D

Acq: 2 Oct 2018 12:52

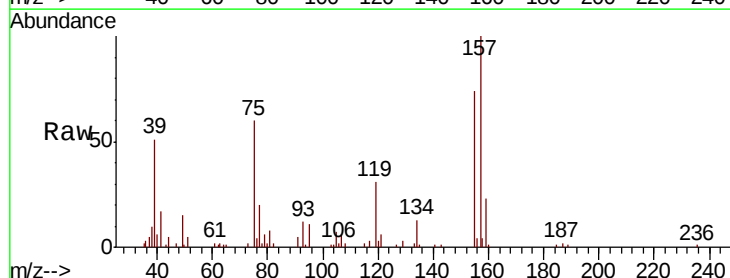
Tgt Ion: 75 Resp: 37232

Ion Ratio Lower Upper

75 100

155 123.2 55.9 167.7

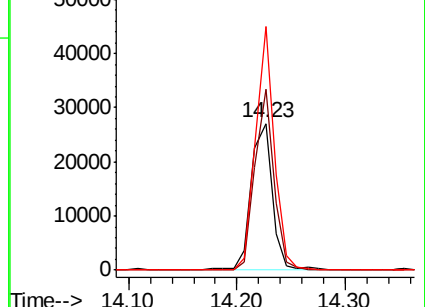
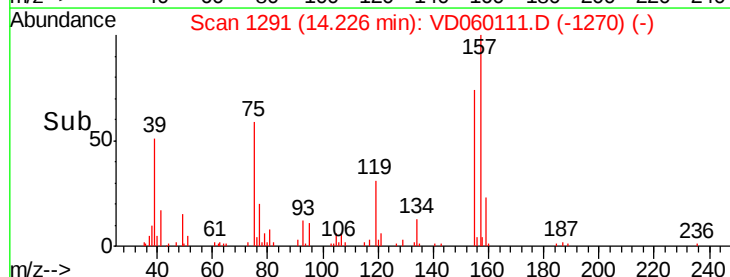
157 165.9 73.3 219.8

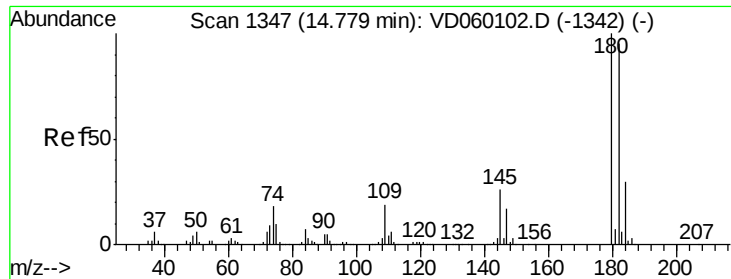


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

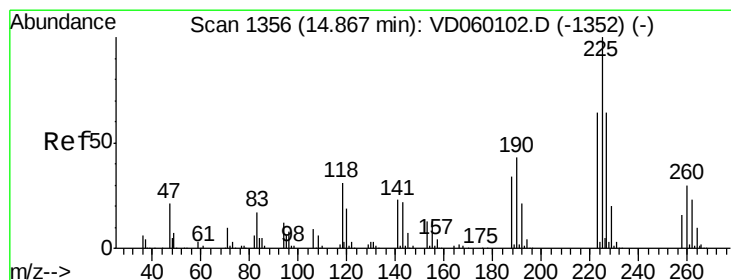
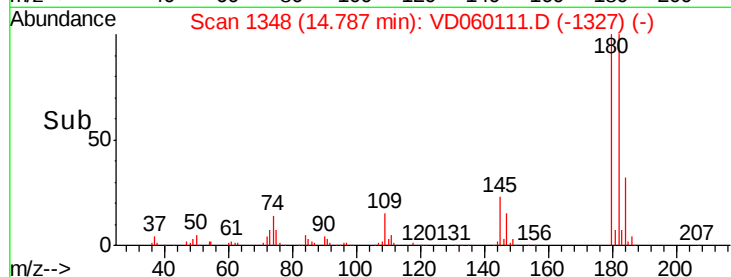
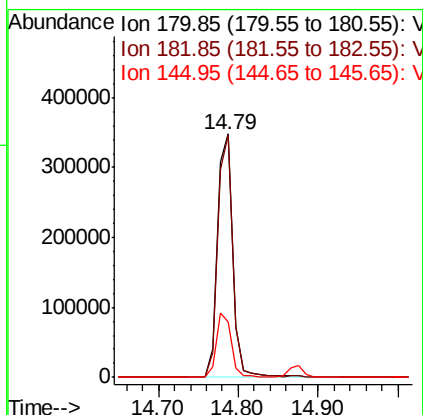
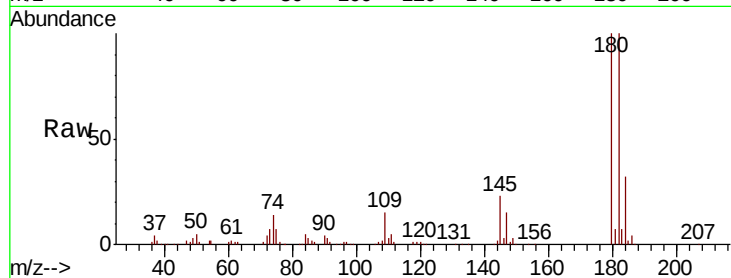




#93
 1,2,4-Trichlorobenzene
 Concen: 20.809 ug/l
 RT: 14.79 min Scan# 1348
 Delta R.T. 0.01 min
 Lab File: VD060111.D
 Acq: 2 Oct 2018 12:52

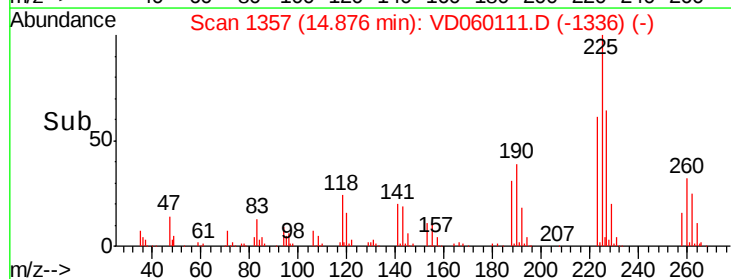
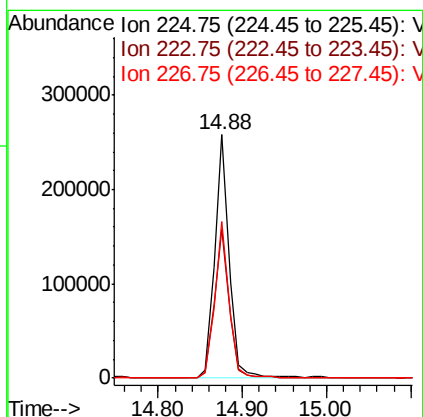
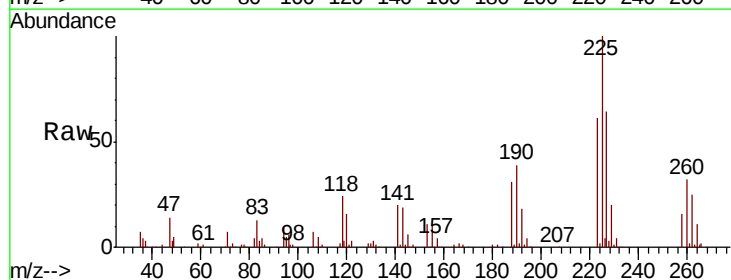
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1002SBSD01

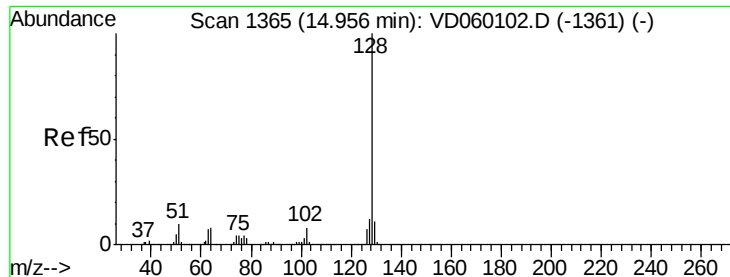
Tot Ion	Ratio	Lower	Upper
180	100		
182	99.8	47.3	141.8
145	22.6	13.0	38.9



#94
 Hexachlorobutadiene
 Concen: 20.345 ug/l
 RT: 14.88 min Scan# 1357
 Delta R.T. 0.01 min
 Lab File: VD060111.D
 Acq: 2 Oct 2018 12:52

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.2	31.8	95.4
227	64.3	32.0	96.0

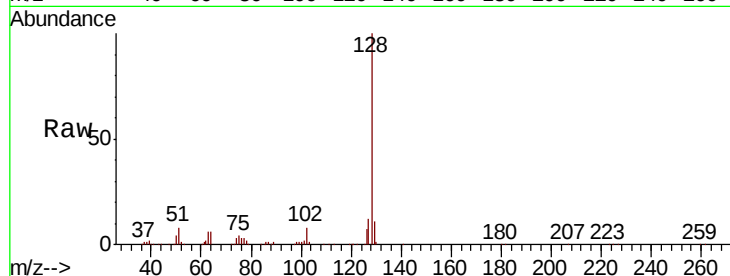




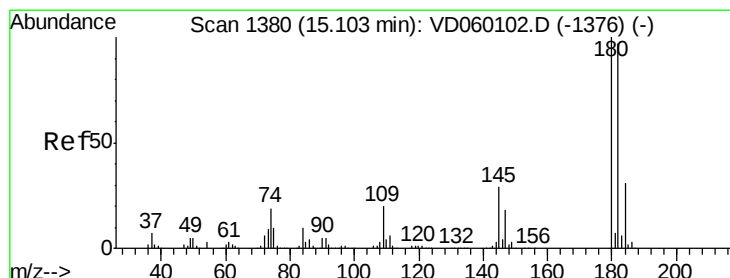
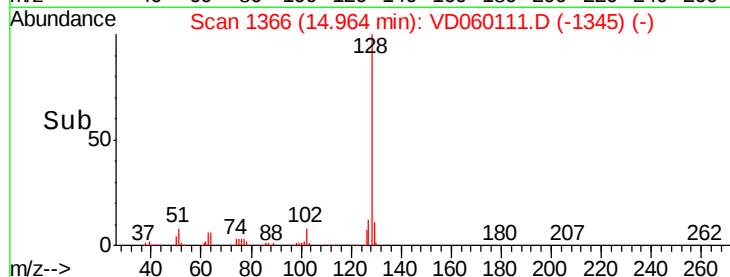
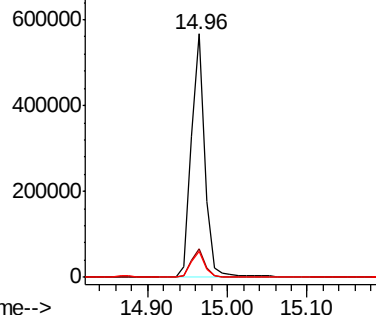
#95
Naphthalene
Concen: 20.413 ug/l
RT: 14.96 min Scan# 1366
Delta R.T. 0.01 min
Lab File: VD060111.D
Acq: 2 Oct 2018 12:52

Instrument :
MSVOA_D
ClientSampleId :
VD1002SBSD01

Tot Ion:128 Resp: 690277
Ion Ratio Lower Upper
128 100
127 12.0 9.9 14.9
129 11.0 8.8 13.2

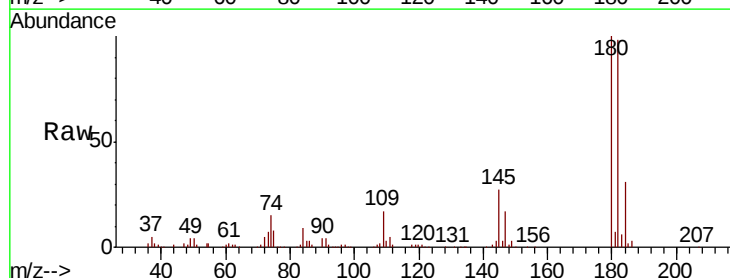


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 20.488 ug/l
RT: 15.11 min Scan# 1381
Delta R.T. 0.01 min
Lab File: VD060111.D
Acq: 2 Oct 2018 12:52

Tgt Ion:180 Resp: 406595
Ion Ratio Lower Upper
180 100
182 98.3 48.4 145.0
145 26.7 14.5 43.6



Abundance Ion 179.85 (179.55 to 180.55): V
Ion 181.85 (181.55 to 182.55): V
Ion 144.95 (144.65 to 145.65): V

