

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122118\
 Data File : VD060678.D
 Acq On : 21 Dec 2018 12:34
 Operator : VA/AP
 Sample : VD1221SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1221SBS01

Quant Time: Dec 21 13:52:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122018S.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 21 03:34:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.44	168	1315350	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	7.48	114	1805044	50.00	ug/l	0.04
63) Chlorobenzene-d5	11.31	117	1455286	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	13.40	152	760558	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.82	65	507547	55.84	ug/l	0.03
Spiked Amount			Recovery	=	111.68%	
35) Dibromofluoromethane	6.36	113	723144	54.74	ug/l	0.03
Spiked Amount			Recovery	=	109.48%	
50) Toluene-d8	9.49	98	2129097	54.01	ug/l	0.03
Spiked Amount			Recovery	=	108.02%	
62) 4-Bromofluorobenzene	12.45	95	741767	53.73	ug/l	0.03
Spiked Amount			Recovery	=	107.46%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.61	85	315534	18.774	ug/l	100
3) Chloromethane	1.77	50	294375	19.032	ug/l	97
4) Vinyl Chloride	1.87	62	228479	18.605	ug/l	99
5) Bromomethane	2.17	94	34881	12.680	ug/l	93
6) Chloroethane	2.28	64	65327	17.825	ug/l	95
7) Trichlorofluoromethane	2.53	101	266596	19.518	ug/l	96
8) Diethyl Ether	2.86	74	49713	21.754	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.12	101	177467	20.030	ug/l	98
10) Methyl Iodide	3.28	142	175231	18.818	ug/l	100
11) Tert butyl alcohol	4.02	59	33043	86.980	ug/l	96
12) 1,1-Dichloroethene	3.10	96	147452	20.254	ug/l	94
13) Acrolein	3.01	56	40436	104.452	ug/l	96
14) Allyl chloride	3.56	41	260908	19.531	ug/l	98
15) Acrylonitrile	4.13	53	229684	104.141	ug/l	99
16) Acetone	3.19	43	158068	99.574	ug/l	100
17) Carbon Disulfide	3.35	76	433531	18.646	ug/l	100
18) Methyl Acetate	3.58	43	75984	19.314	ug/l	95
19) Methyl tert-butyl Ether	4.16	73	384379	20.811	ug/l	97
20) Methylene Chloride	3.75	84	333233	20.213	ug/l	99
21) trans-1,2-Dichloroethene	4.14	96	289077	19.389	ug/l	96
22) Diisopropyl ether	4.89	45	954058	21.035	ug/l	98
23) Vinyl Acetate	4.83	43	2326428	106.019	ug/l	99
24) 1,1-Dichloroethane	4.79	63	482318	20.217	ug/l	99
25) 2-Butanone	5.66	43	318121	104.725	ug/l	100
26) 2,2-Dichloropropane	5.62	77	379111	20.132	ug/l	95
27) cis-1,2-Dichloroethene	5.63	96	308125	20.359	ug/l	97
28) Bromochloromethane	5.96	49	191718	19.022	ug/l	95
29) Tetrahydrofuran	5.99	42	185393	107.658	ug/l	98
30) Chloroform	6.13	83	491860	20.489	ug/l	99
31) Cyclohexane	6.40	56	453865	19.769	ug/l	96
32) 1,1,1-Trichloroethane	6.33	97	393347	19.805	ug/l	97
36) 1,1-Dichloropropene	6.56	75	386989	20.820	ug/l	98
37) Ethyl Acetate	5.73	43	168137	21.629	ug/l	96
38) Carbon Tetrachloride	6.54	117	336574	20.526	ug/l	98

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122018S.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 21 03:34:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.07	83	426386	20.114	ug/l	99
40) Benzene	6.83	78	982690	20.468	ug/l	99
41) Methacrylonitrile	5.99	41	188066	43.738	ug/l #	74
42) 1,2-Dichloroethane	6.93	62	249071	20.905	ug/l	99
43) Isopropyl Acetate	8.38	43	196537	19.702	ug/l #	96
44) Trichloroethene	7.78	130	286975	20.195	ug/l	100
45) 1,2-Dichloropropane	8.14	63	236896	20.120	ug/l	98
46) Dibromomethane	8.25	93	134738	20.050	ug/l	96
47) Bromodichloromethane	8.52	83	324580	20.393	ug/l	97
48) Methyl methacrylate	8.28	41	124669	20.576	ug/l	97
49) 1,4-Dioxane	8.26	88	20922	371.387	ug/l	91
51) 4-Methyl-2-Pentanone	9.37	43	648930	106.176	ug/l	97
52) Toluene	9.58	92	614187	20.406	ug/l	99
53) t-1,3-Dichloropropene	9.95	75	263557	19.848	ug/l	98
54) cis-1,3-Dichloropropene	9.13	75	354007	20.368	ug/l	96
55) 1,1,2-Trichloroethane	10.21	97	165856	20.481	ug/l	98
56) Ethyl methacrylate	10.06	69	152758	20.309	ug/l	96
57) 1,3-Dichloropropane	10.41	76	261314	20.358	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.96	63	470698	106.204	ug/l	97
59) 2-Hexanone	10.51	43	451657	105.576	ug/l	99
60) Dibromochloromethane	10.67	129	211623	20.516	ug/l	100
61) 1,2-Dibromoethane	10.79	107	170953	20.352	ug/l	96
64) Tetrachloroethene	10.29	164	271441	20.579	ug/l	98
65) Chlorobenzene	11.34	112	662287	20.598	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.44	131	222558	21.528	ug/l	95
67) Ethyl Benzene	11.45	91	1148661	20.860	ug/l	96
68) m/p-Xylenes	11.58	106	834694	41.479	ug/l	94
69) o-Xylene	11.96	106	395436	20.712	ug/l	91
70) Styrene	11.98	104	648438	21.088	ug/l	98
71) Bromoform	12.14	173	138964	20.364	ug/l	96
73) Isopropylbenzene	12.29	105	1106302	20.430	ug/l	99
74) N-amyl acetate	12.16	43	260166	20.357	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.58	83	185040	21.082	ug/l	97
76) 1,2,3-Trichloropropane	12.62	75	182815	21.113	ug/l	99
77) Bromobenzene	12.56	156	301747	21.106	ug/l	97
78) n-propylbenzene	12.66	91	1468589	21.214	ug/l	97
79) 2-Chlorotoluene	12.73	91	750850	20.250	ug/l	98
80) 1,3,5-Trimethylbenzene	12.81	105	882675	21.109	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.36	75	46857	19.584	ug/l	95
82) 4-Chlorotoluene	12.83	91	880627	20.954	ug/l	88
83) tert-Butylbenzene	13.07	119	998495	20.982	ug/l	99
84) 1,2,4-Trimethylbenzene	13.11	105	887777	20.614	ug/l	99
85) sec-Butylbenzene	13.24	105	1184564	20.411	ug/l	99
86) p-Isopropyltoluene	13.36	119	979387	20.906	ug/l	97
87) 1,3-Dichlorobenzene	13.33	146	553980	21.108	ug/l	95
88) 1,4-Dichlorobenzene	13.42	146	533467	20.628	ug/l	97
89) n-Butylbenzene	13.66	91	1030961	21.536	ug/l	97
90) Hexachloroethane	13.88	117	235401	20.454	ug/l	96
91) 1,2-Dichlorobenzene	13.68	146	464981	22.087	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.24	75	20778	20.150	ug/l	96

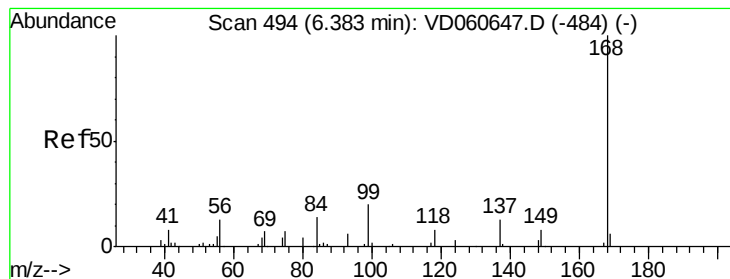
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD122118\
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Quant Title : SW846 8260
QLast Update : Fri Dec 21 03:34:39 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.80	180	356317	21.270	ug/l	96
94) Hexachlorobutadiene	14.90	225	257865	20.825	ug/l	97
95) Naphthalene	14.99	128	413568	20.772	ug/l	99
96) 1,2,3-Trichlorobenzene	15.14	180	269412	20.573	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.44 min Scan# 530

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

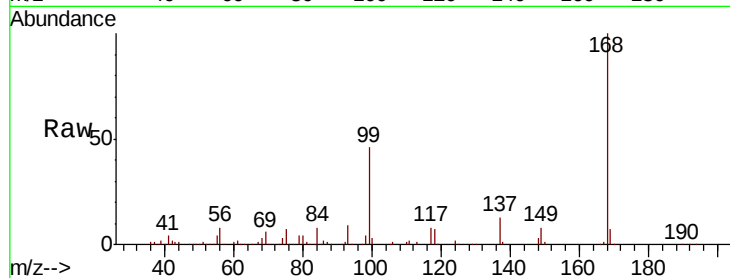
VD1221SBS01

Tot Ion:168 Resp: 1315350

Ion Ratio Lower Upper

168 100

99 46.4 38.7 58.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.44

500000

400000

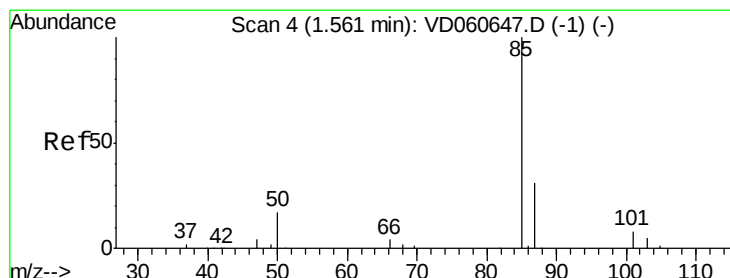
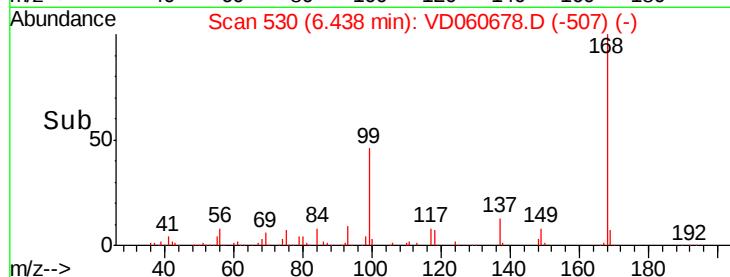
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 18.774 ug/l

RT: 1.61 min Scan# 39

Delta R.T. 0.00 min

Lab File: VD060678.D

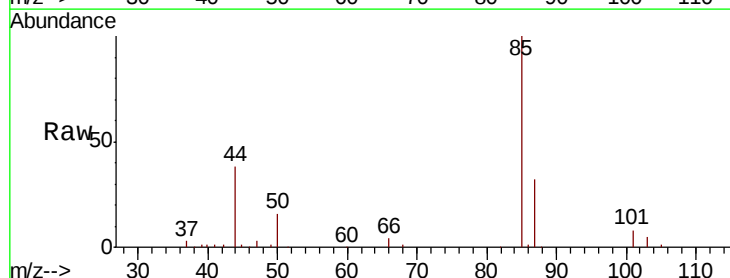
Acq: 21 Dec 2018 12:34

Tgt Ion: 85 Resp: 315534

Ion Ratio Lower Upper

85 100

87 32.1 16.0 47.9



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.61

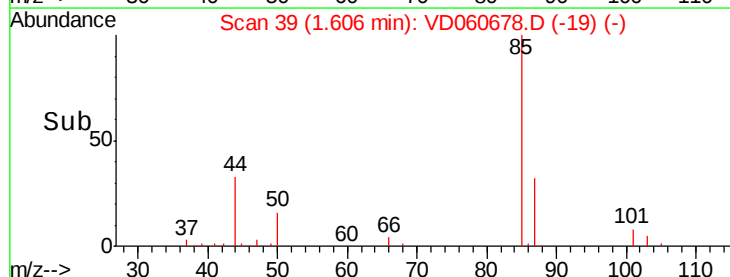
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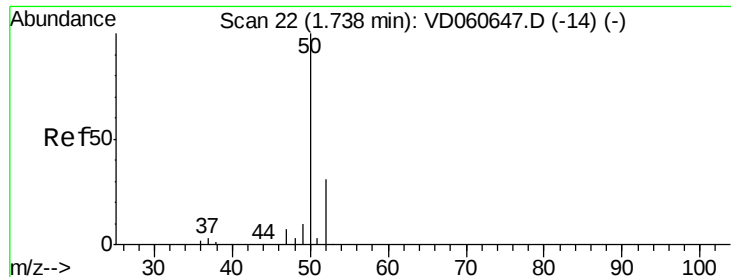
100000

50000

0

Time-->





#3

Chloromethane

Concen: 19.032 ug/l

RT: 1.77 min Scan# 56

Delta R.T. 0.00 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

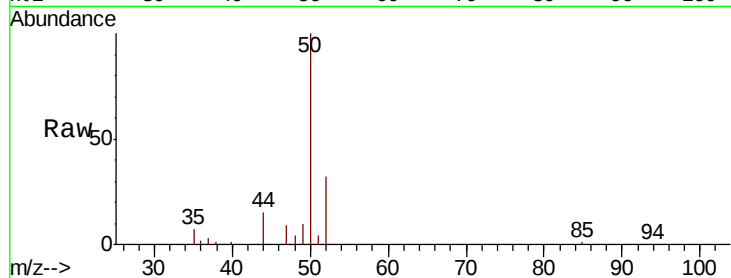
VD1221SBS01

Tot Ion: 50 Resp: 294375

Ion Ratio Lower Upper

50 100

52 31.7 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.77

100000

80000

60000

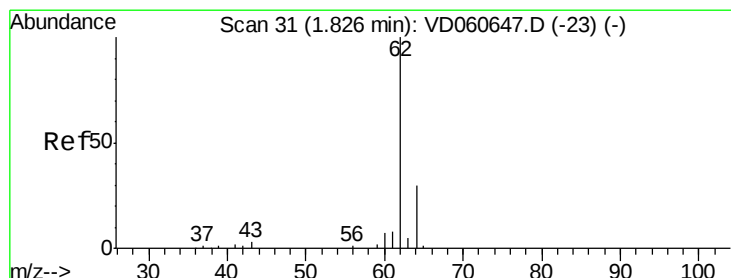
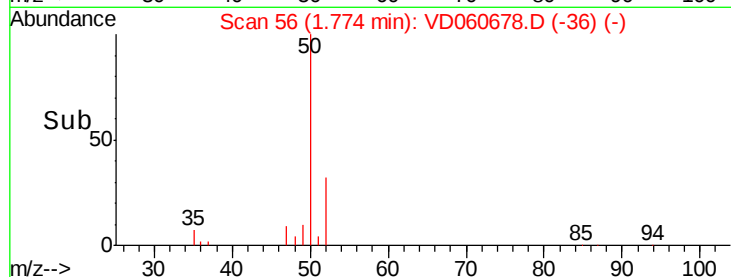
40000

20000

0

1.70 1.80 1.90 2.00

Time-->



#4

Vinyl Chloride

Concen: 18.605 ug/l

RT: 1.87 min Scan# 66

Delta R.T. 0.00 min

Lab File: VD060678.D

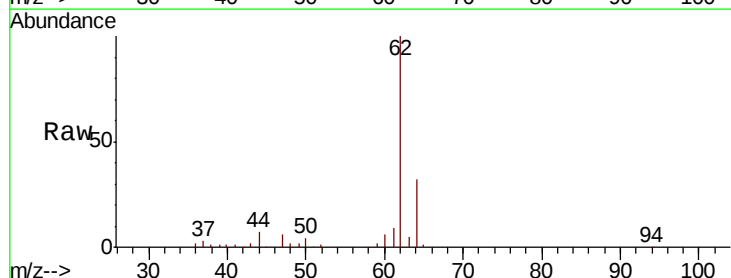
Acq: 21 Dec 2018 12:34

Tgt Ion: 62 Resp: 228479

Ion Ratio Lower Upper

62 100

64 31.6 25.0 37.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

1.87

120000

100000

80000

60000

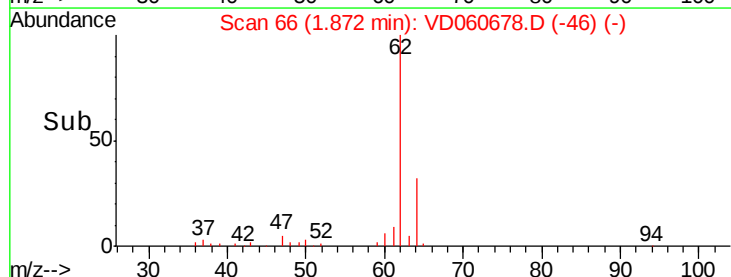
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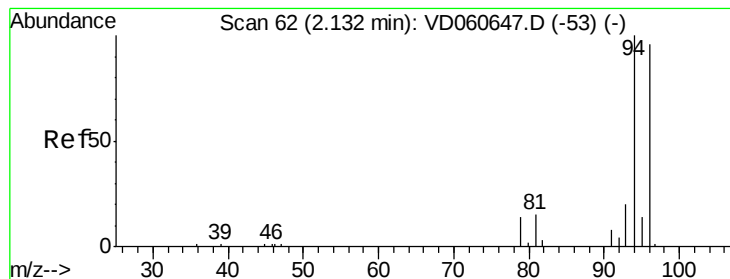
20000

0

1.80 1.90 2.00 2.10

Time-->





#5

Bromomethane

Concen: 12.680 ug/l

RT: 2.17 min Scan# 96

Delta R.T. 0.00 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

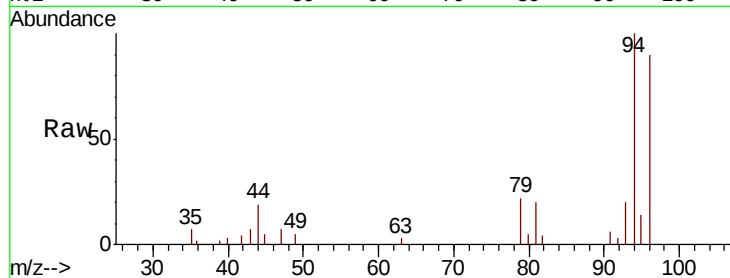
VD1221SBS01

Tot Ion: 94 Resp: 34881

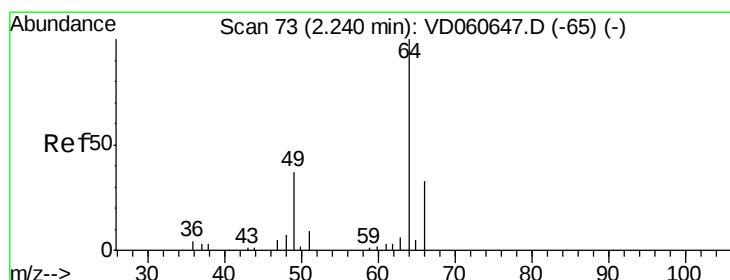
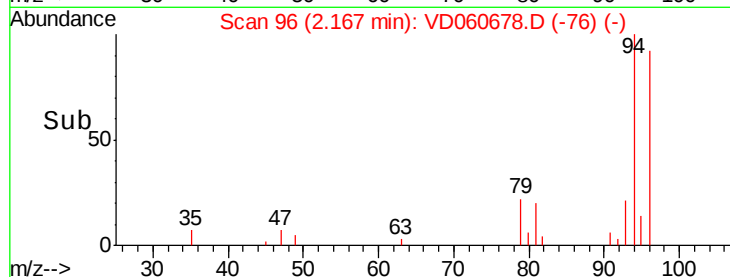
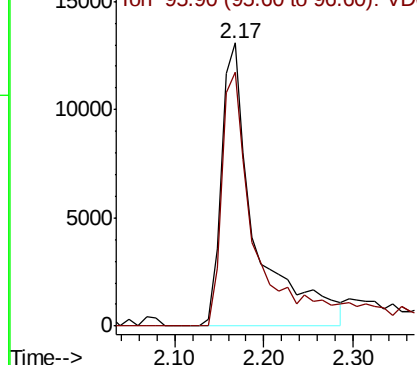
Ion Ratio Lower Upper

94 100

96 89.6 77.2 115.8



Abundance Ion 93.90 (93.60 to 94.60): VDC
Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 17.825 ug/l

RT: 2.28 min Scan# 107

Delta R.T. 0.00 min

Lab File: VD060678.D

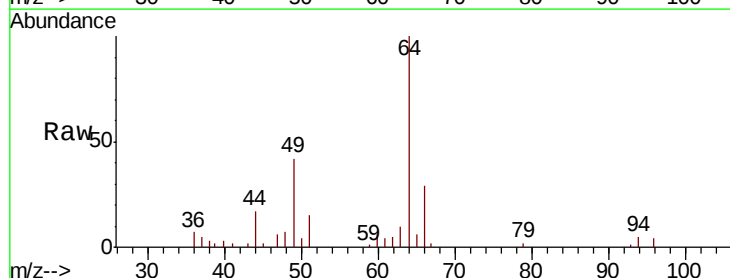
Acq: 21 Dec 2018 12:34

Tgt Ion: 64 Resp: 65327

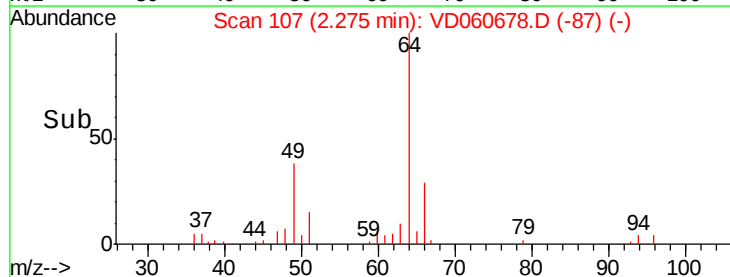
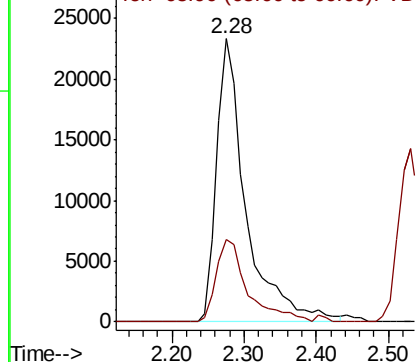
Ion Ratio Lower Upper

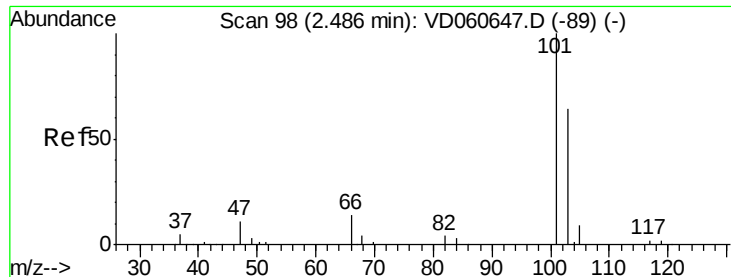
64 100

66 29.2 25.6 38.4



Abundance Ion 63.95 (63.65 to 64.65): VDC
Ion 65.90 (65.60 to 66.60): VDC



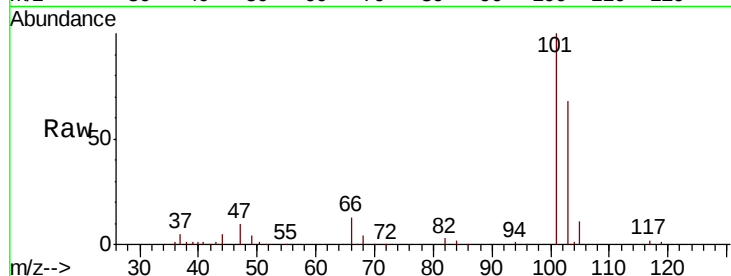


#7

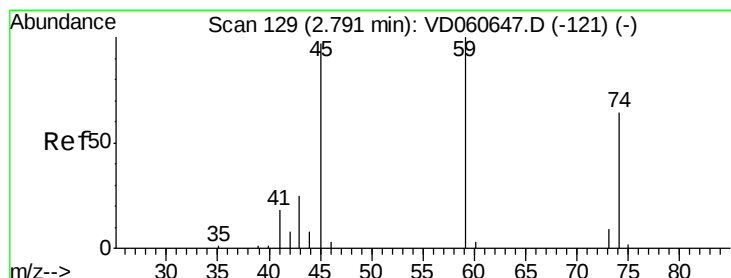
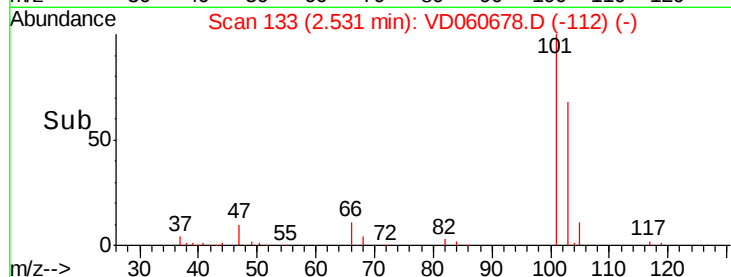
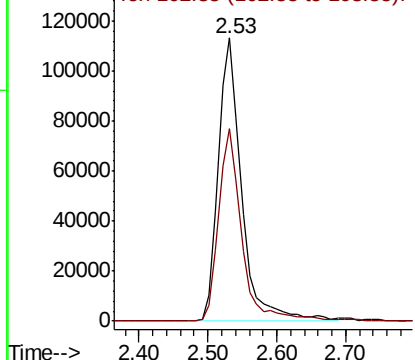
Trichlorofluoromethane
Concen: 19.518 ug/l
RT: 2.53 min Scan# 133
Delta R.T. 0.01 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Instrument :
MSVOA_D
ClientSampleId :
VD1221SBS01

Tot Ion:101 Resp: 266596
Ion Ratio Lower Upper
101 100
103 67.9 51.9 77.9



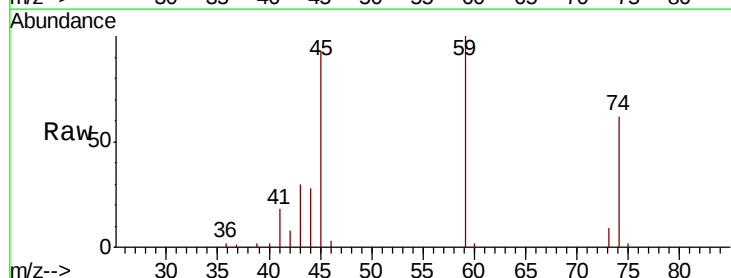
Abundance Ion 100.85 (100.55 to 101.55): V
Ion 102.85 (102.55 to 103.55): V



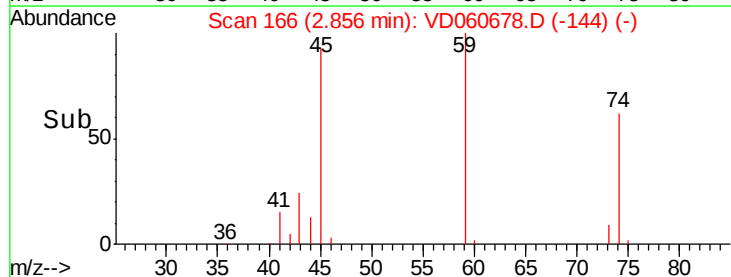
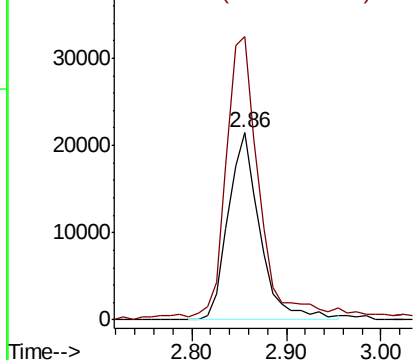
#8

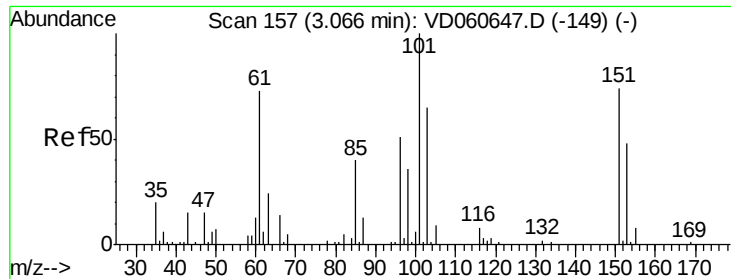
Diethyl Ether
Concen: 21.754 ug/l
RT: 2.86 min Scan# 166
Delta R.T. 0.02 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Tgt Ion: 74 Resp: 49713
Ion Ratio Lower Upper
74 100
45 151.5 79.3 238.1



Abundance Ion 74.00 (73.70 to 74.70): VDC
Ion 45.05 (44.75 to 45.75): VDC





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.030 ug/l

RT: 3.12 min Scan# 193

Delta R.T. 0.02 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD1221SBS01

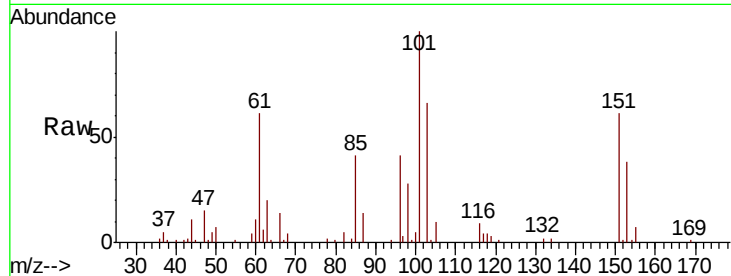
Tot Ion:101 Resp: 177467

Ion Ratio Lower Upper

101 100

85 40.5 33.4 50.0

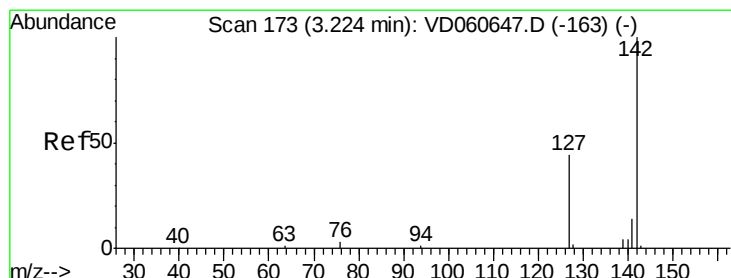
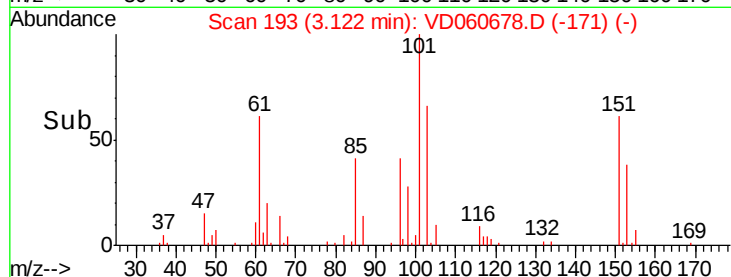
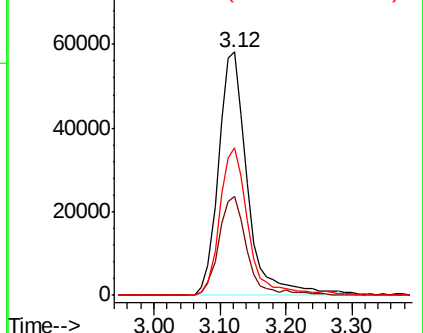
151 60.8 47.5 71.3



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: 18.818 ug/l

RT: 3.28 min Scan# 209

Delta R.T. 0.02 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

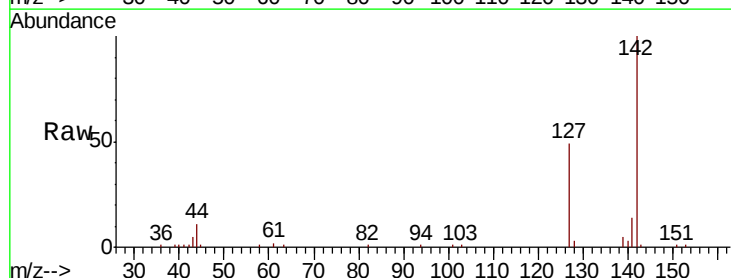
Tgt Ion:142 Resp: 175231

Ion Ratio Lower Upper

142 100

127 49.1 39.5 59.3

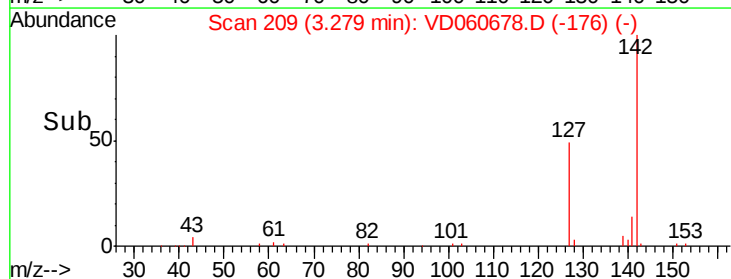
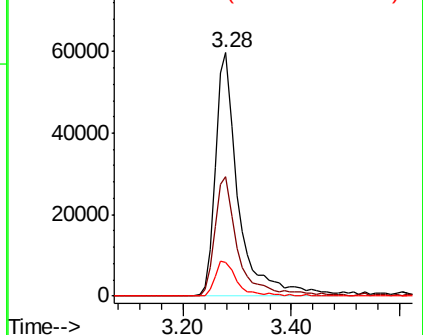
141 14.1 11.3 16.9

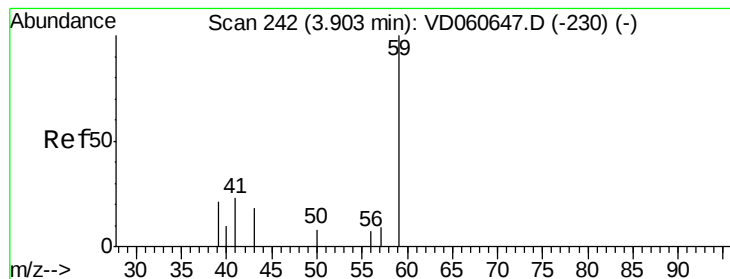


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



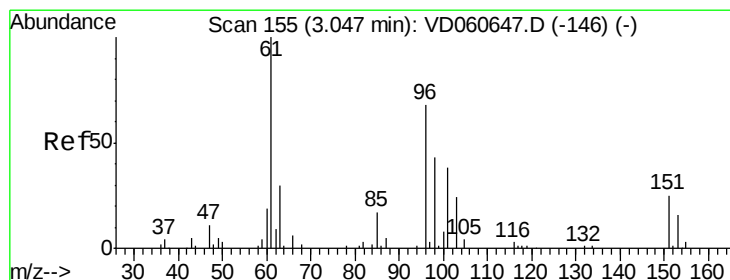
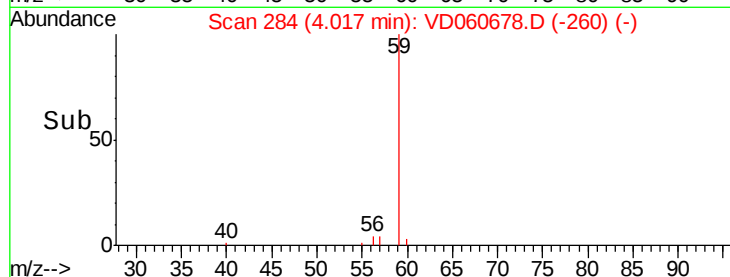
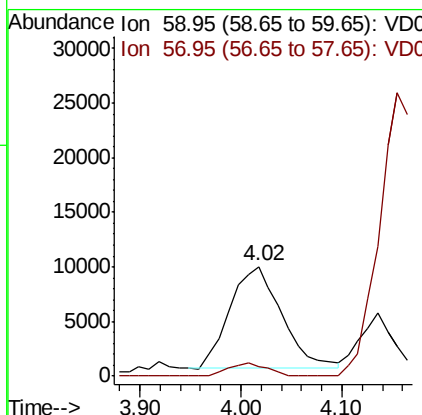
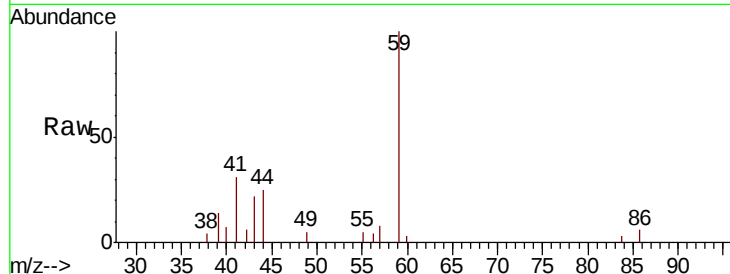


#11

Tert butyl alcohol
 Concen: 86.980 ug/l
 RT: 4.02 min Scan# 284
 Delta R.T. 0.04 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1221SBS01

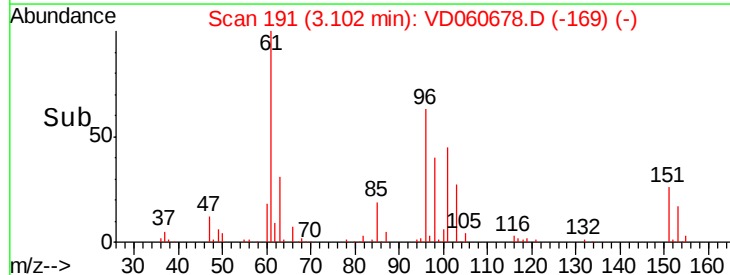
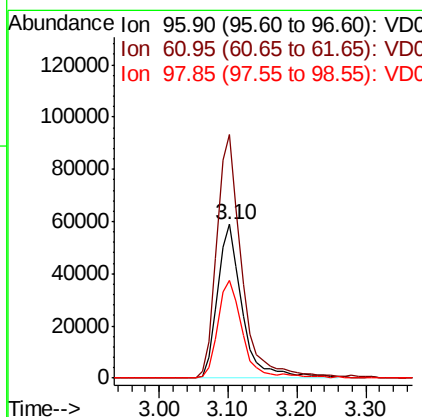
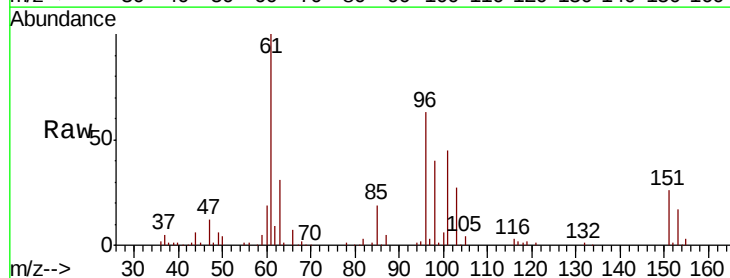
Tot Ion: 59 Resp: 33043
 Ion Ratio Lower Upper
 59 100
 57 8.2 7.8 11.6

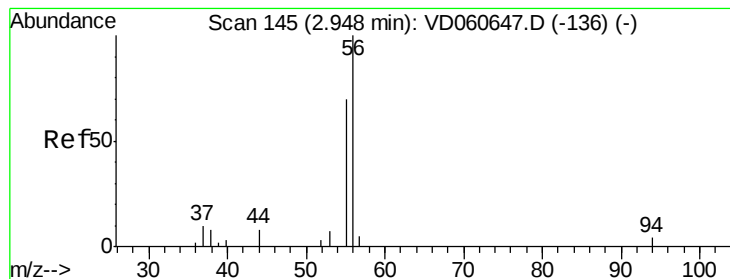


#12

1,1-Dichloroethene
 Concen: 20.254 ug/l
 RT: 3.10 min Scan# 191
 Delta R.T. 0.02 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

Tgt Ion: 96 Resp: 147452
 Ion Ratio Lower Upper
 96 100
 61 158.3 136.2 204.4
 98 63.5 50.7 76.1





#13

Acrolein

Concen: 104.452 ug/l

RT: 3.01 min Scan# 182

Delta R.T. 0.02 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

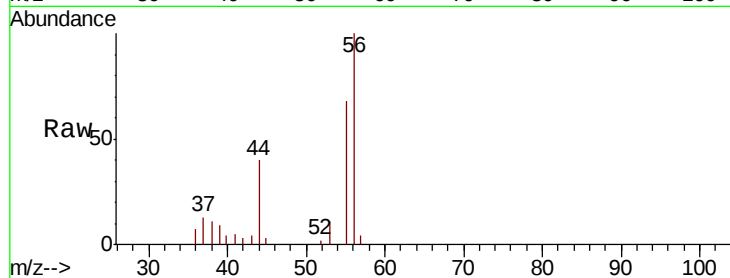
VD1221SBS01

Tot Ion: 56 Resp: 40436

Ion Ratio Lower Upper

56 100

55 68.4 57.7 86.5



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.01

15000

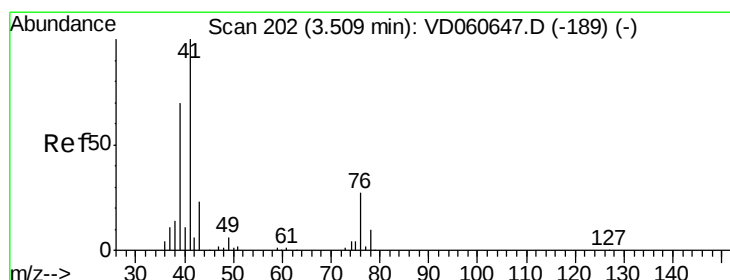
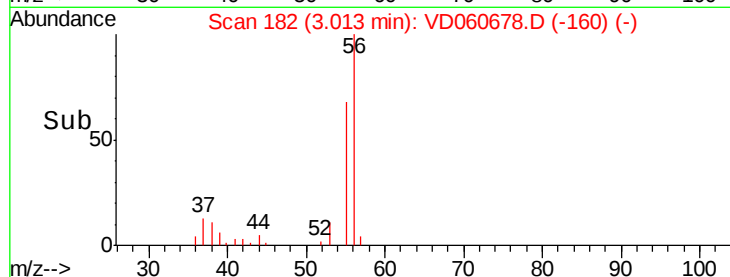
10000

5000

0

Time-->

2.90 3.00 3.10



#14

Allyl chloride

Concen: 19.531 ug/l

RT: 3.56 min Scan# 238

Delta R.T. 0.02 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

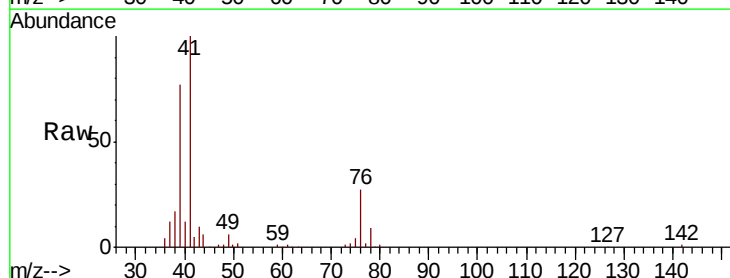
Tgt Ion: 41 Resp: 260908

Ion Ratio Lower Upper

41 100

39 76.7 59.6 89.4

76 27.2 21.8 32.6



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

120000

100000

80000

60000

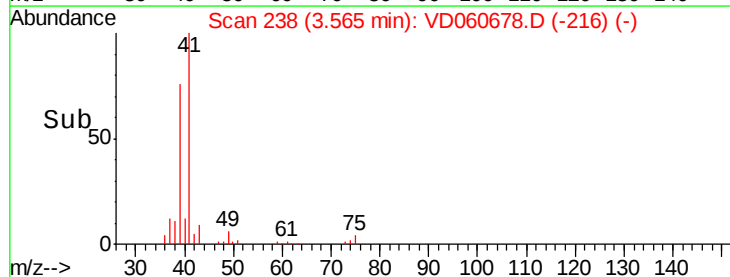
40000

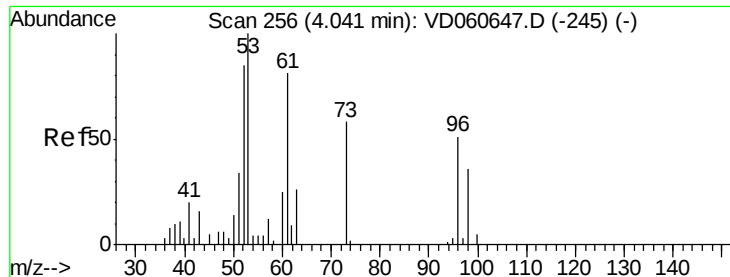
20000

0

Time-->

3.50 3.60 3.70





#15

Acrylonitrile

Concen: 104.141 ug/l

RT: 4.13 min Scan# 295

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD1221SBS01

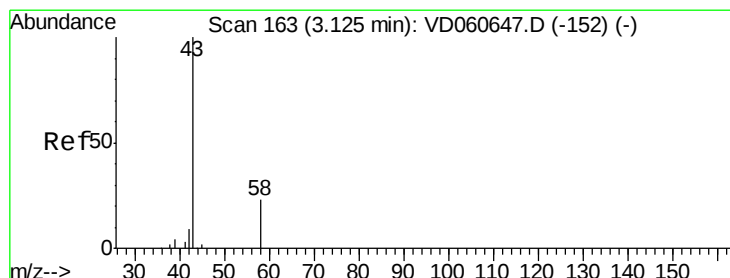
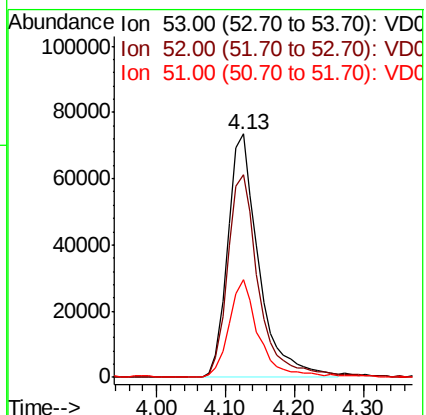
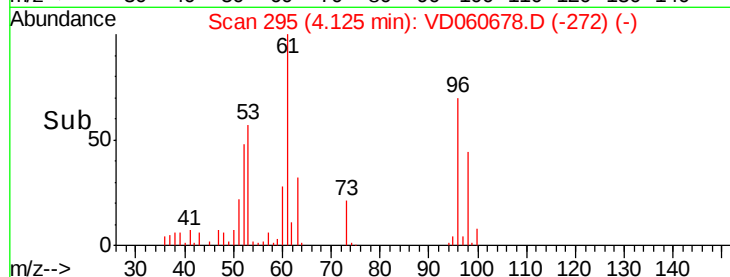
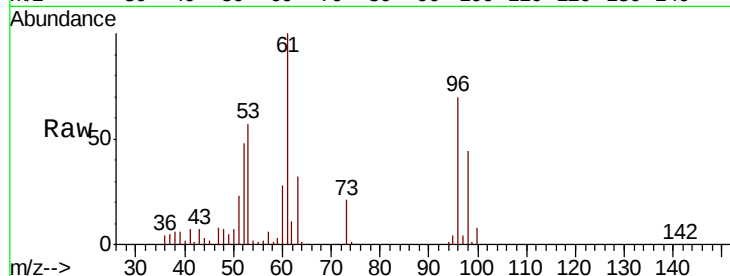
Tot Ion: 53 Resp: 229684

Ion Ratio Lower Upper

53 100

52 83.0 66.7 100.1

51 40.1 32.7 49.1



#16

Acetone

Concen: 99.574 ug/l

RT: 3.19 min Scan# 200

Delta R.T. 0.02 min

Lab File: VD060678.D

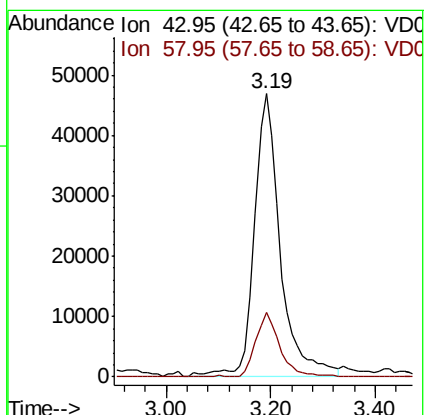
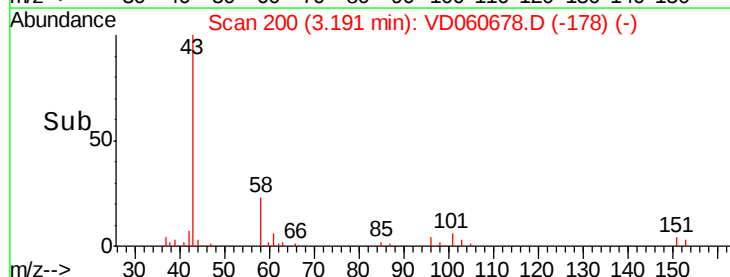
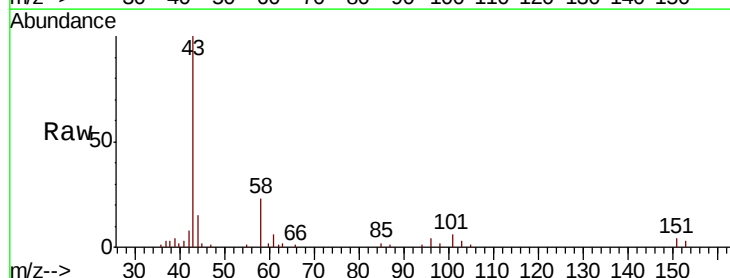
Acq: 21 Dec 2018 12:34

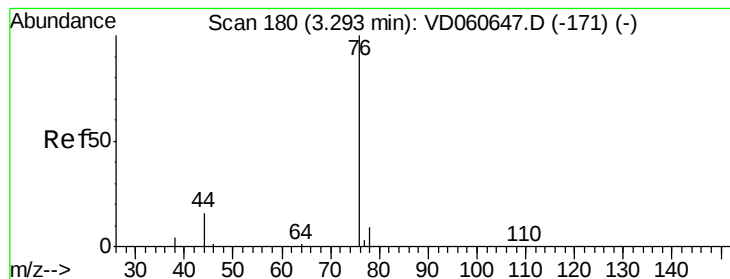
Tgt Ion: 43 Resp: 158068

Ion Ratio Lower Upper

43 100

58 22.8 18.2 27.2





#17

Carbon Disulfide

Concen: 18.646 ug/l

RT: 3.35 min Scan# 216

Delta R.T. 0.02 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

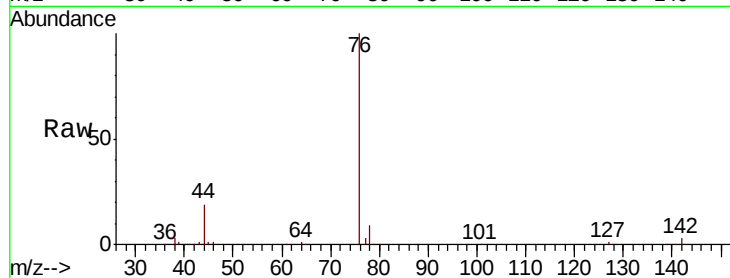
VD1221SBS01

Tot Ion: 76 Resp: 433531

Ion Ratio Lower Upper

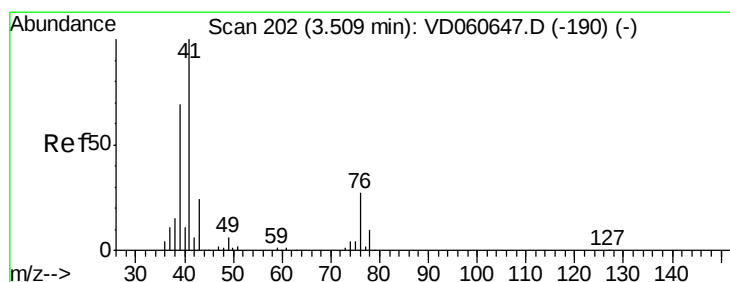
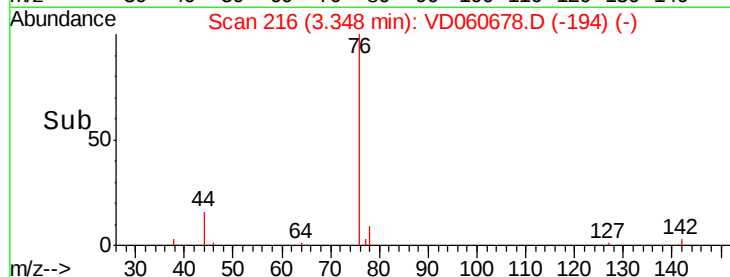
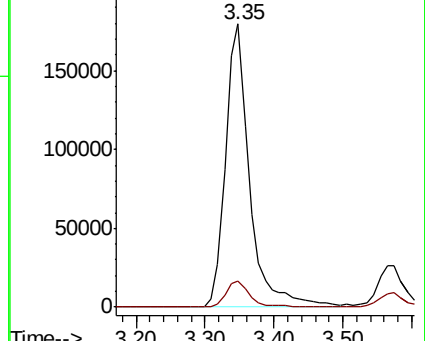
76 100

78 9.2 7.4 11.0



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 19.314 ug/l

RT: 3.58 min Scan# 240

Delta R.T. 0.02 min

Lab File: VD060678.D

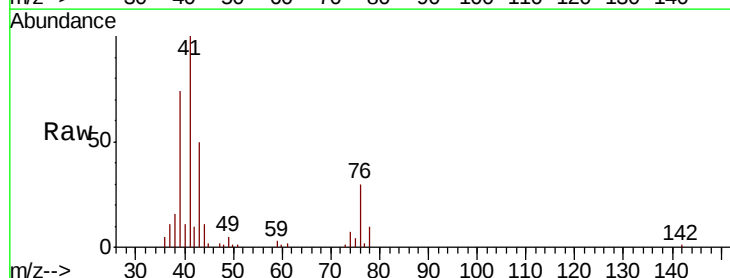
Acq: 21 Dec 2018 12:34

Tgt Ion: 43 Resp: 75984

Ion Ratio Lower Upper

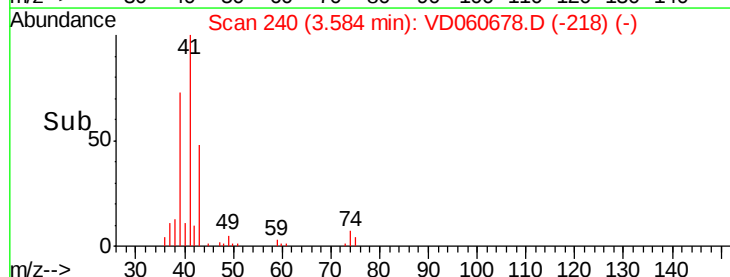
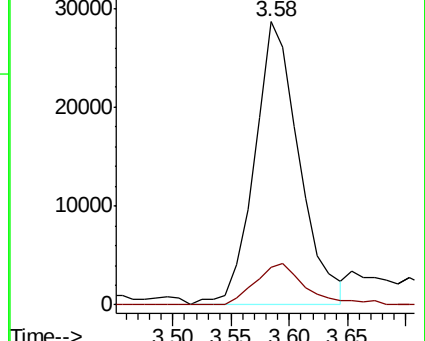
43 100

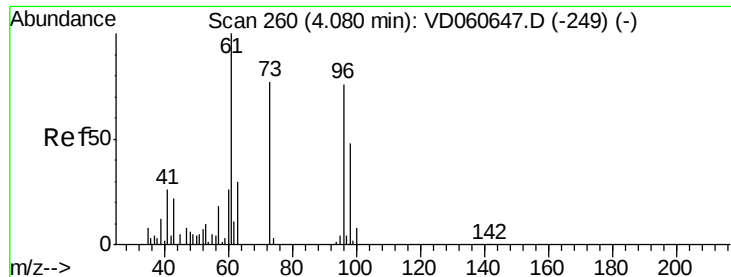
74 13.5 12.4 18.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

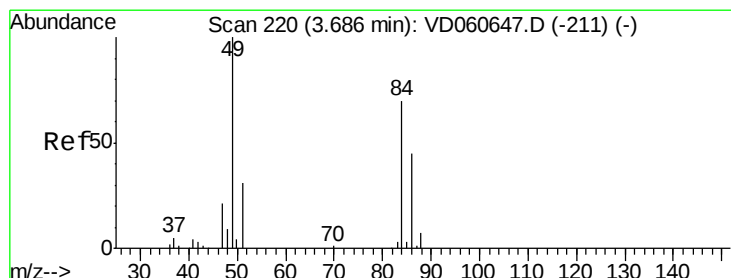
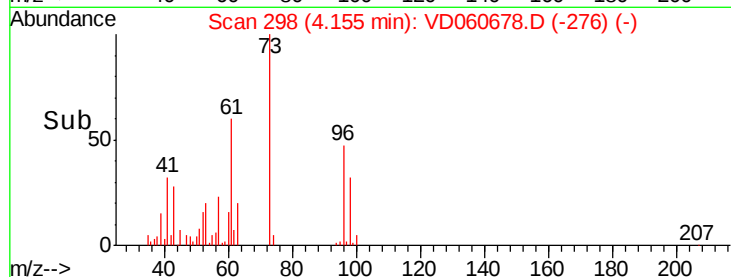
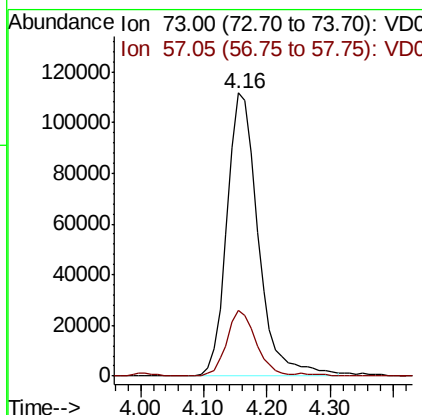
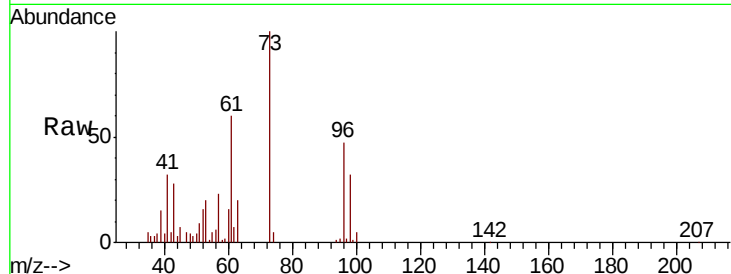




#19
Methyl tert-butyl Ether
Concen: 20.811 ug/l
RT: 4.16 min Scan# 298
Delta R.T. 0.02 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

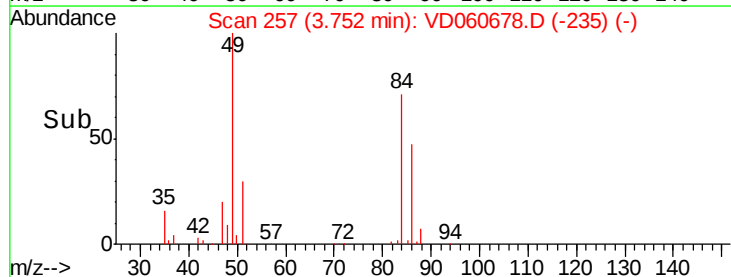
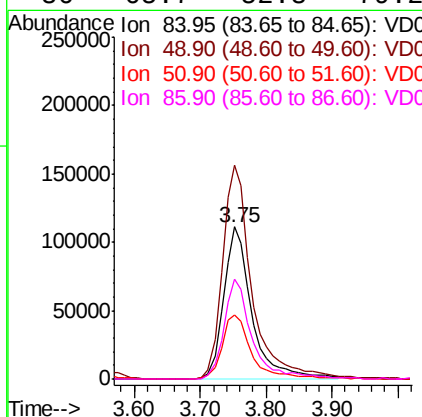
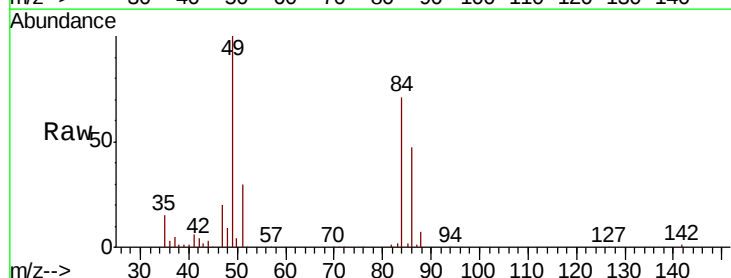
Instrument :
MSVOA_D
ClientSampleId :
VD1221SBS01

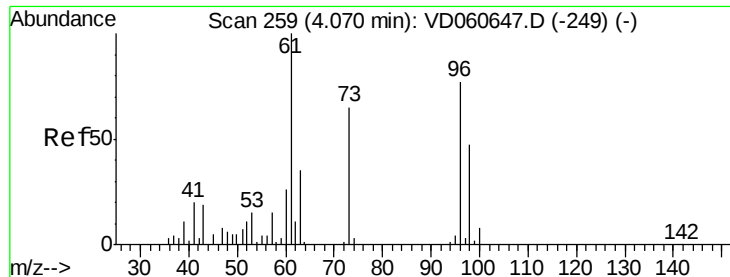
Tot Ion: 73 Resp: 384379
Ion Ratio Lower Upper
73 100
57 23.2 17.6 26.4



#20
Methylene Chloride
Concen: 20.213 ug/l
RT: 3.75 min Scan# 257
Delta R.T. 0.02 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Tgt Ion: 84 Resp: 333233
Ion Ratio Lower Upper
84 100
49 140.6 113.6 170.4
51 42.5 34.7 52.1
86 65.7 52.8 79.2





#21

trans-1,2-Dichloroethene

Concen: 19.389 ug/l

RT: 4.14 min Scan# 296

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD1221SBS01

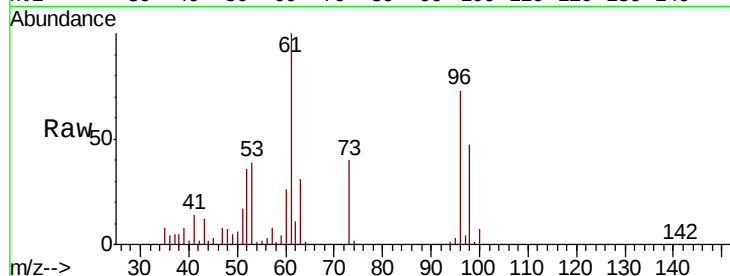
Tot Ion: 96 Resp: 289077

Ion Ratio Lower Upper

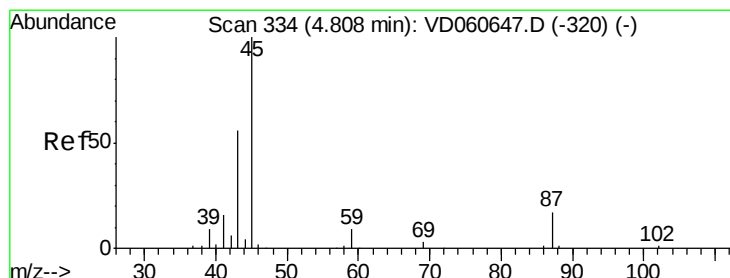
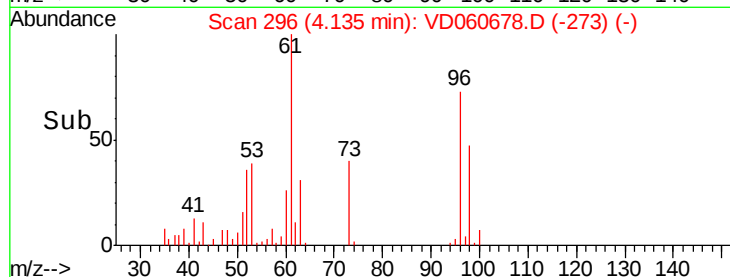
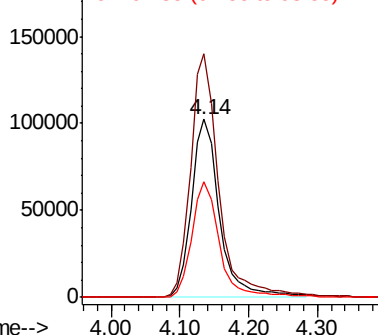
96 100

61 136.8 104.2 156.2

98 64.8 51.2 76.8



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: 21.035 ug/l

RT: 4.89 min Scan# 373

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Tgt Ion: 45 Resp: 954058

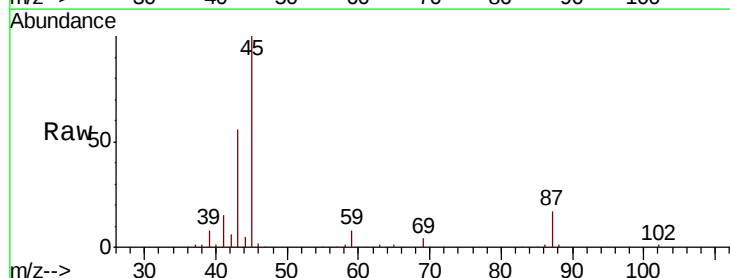
Ion Ratio Lower Upper

45 100

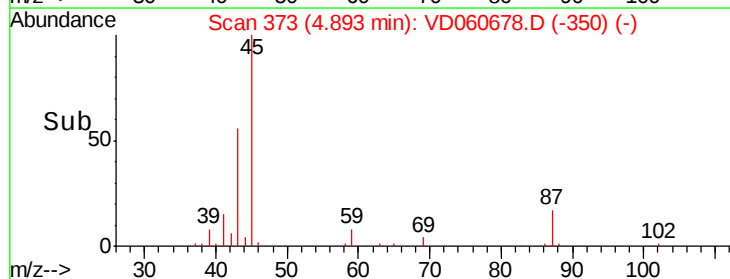
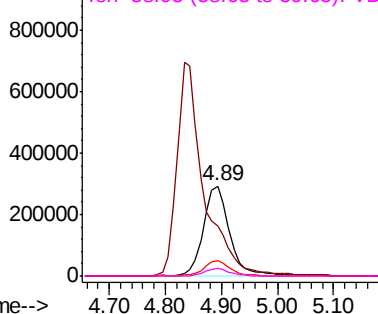
43 56.2 46.1 69.1

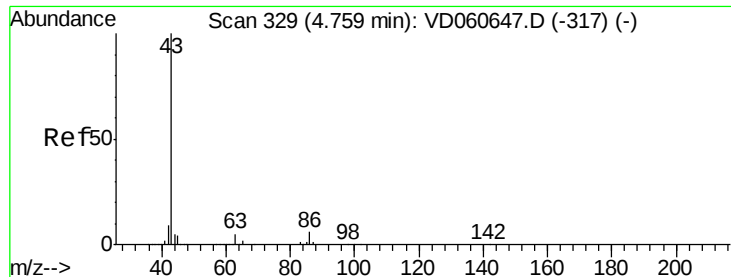
87 17.1 13.7 20.5

59 8.3 7.4 11.0



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: 106.019 ug/l

RT: 4.83 min Scan# 367

Delta R.T. 0.02 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

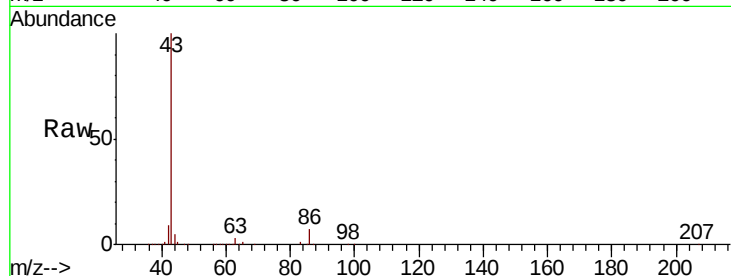
VD1221SBS01

Tot Ion: 43 Resp: 2326428

Ion Ratio Lower Upper

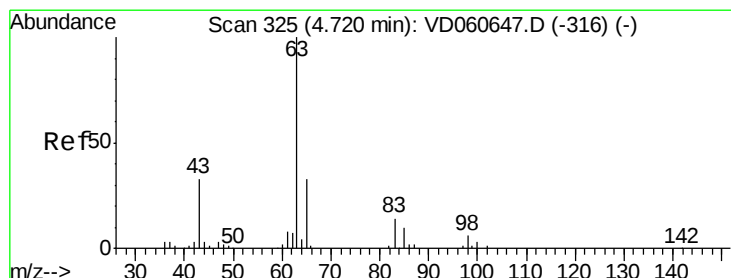
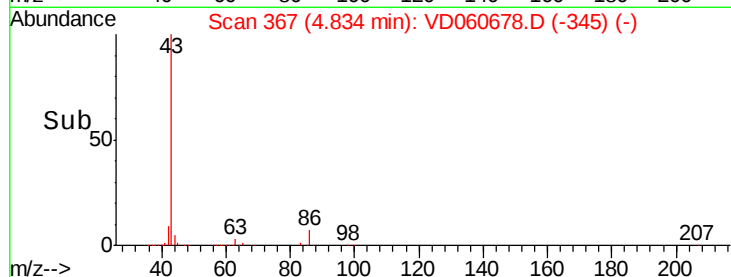
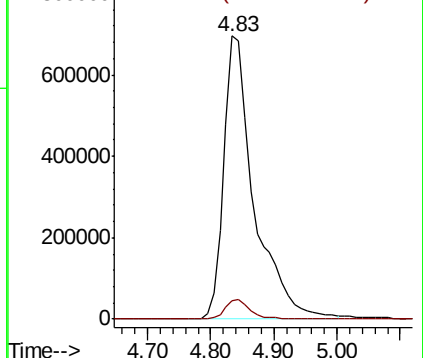
43 100

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: 20.217 ug/l

RT: 4.79 min Scan# 363

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

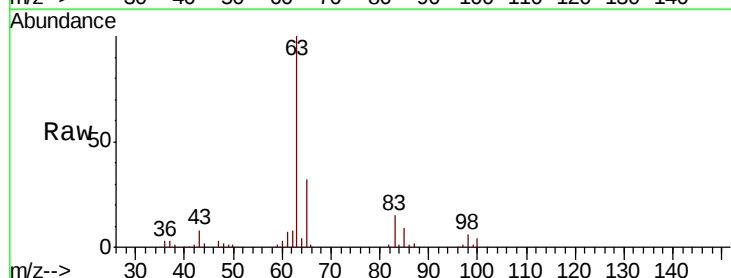
Tgt Ion: 63 Resp: 482318

Ion Ratio Lower Upper

63 100

98 6.3 2.9 8.7

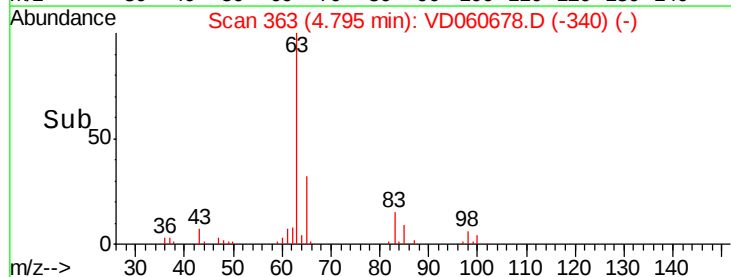
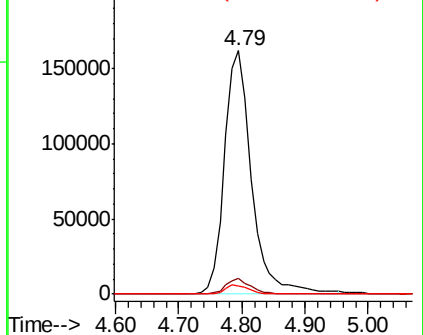
100 3.6 2.0 5.8

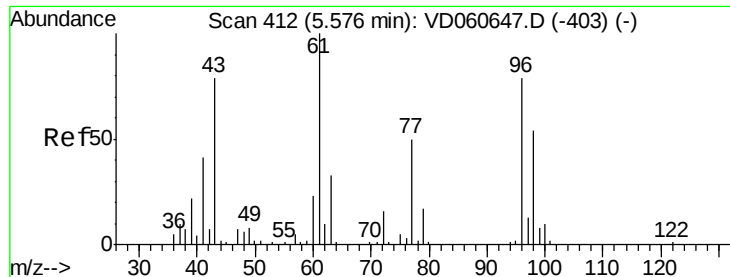


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 104.725 ug/l

RT: 5.66 min Scan# 451

Delta R.T. 0.04 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

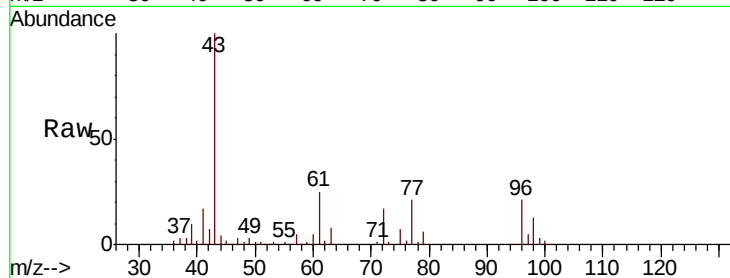
VD1221SBS01

Tot Ion: 43 Resp: 318121

Ion Ratio Lower Upper

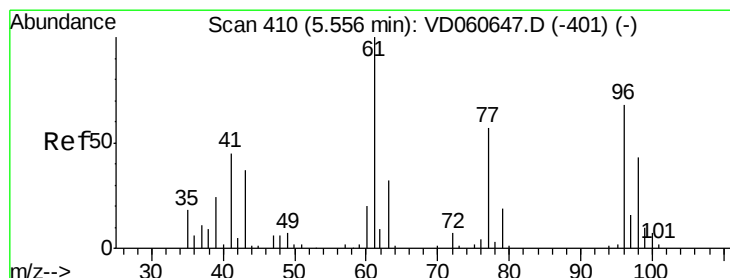
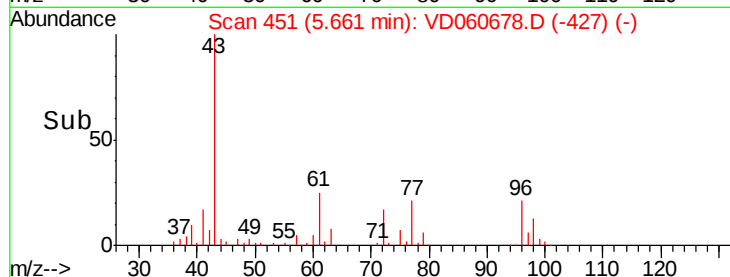
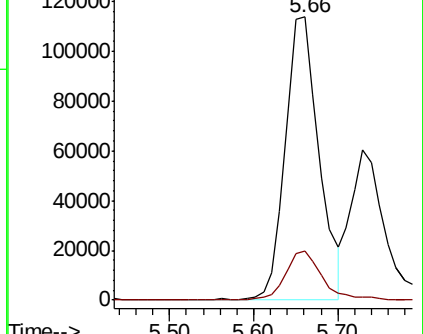
43 100

72 17.3 13.7 20.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 20.132 ug/l

RT: 5.62 min Scan# 447

Delta R.T. 0.03 min

Lab File: VD060678.D

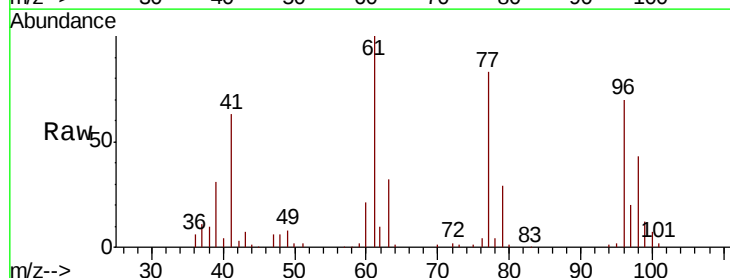
Acq: 21 Dec 2018 12:34

Tgt Ion: 77 Resp: 379111

Ion Ratio Lower Upper

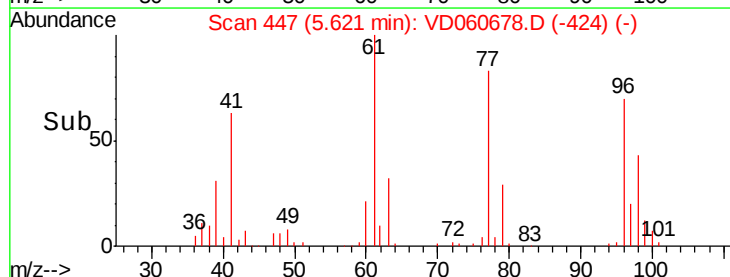
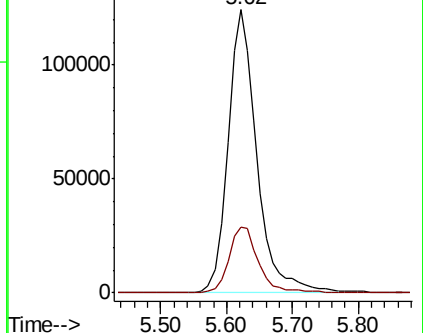
77 100

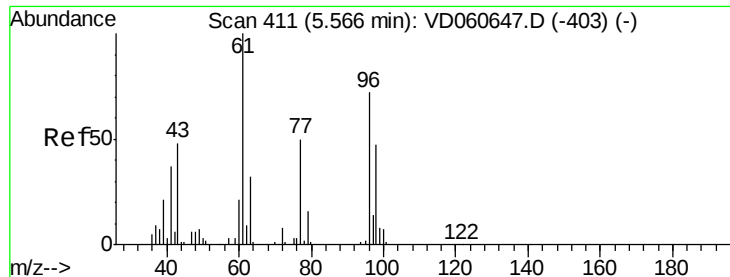
97 23.4 13.0 39.0



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



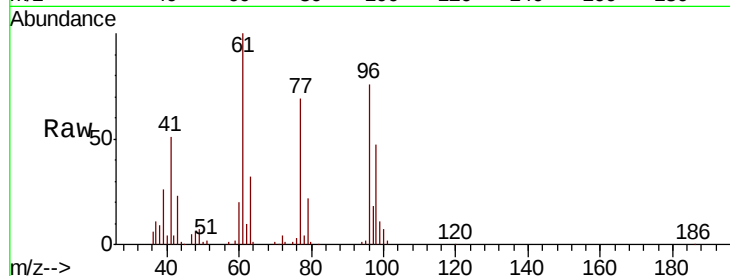


#27

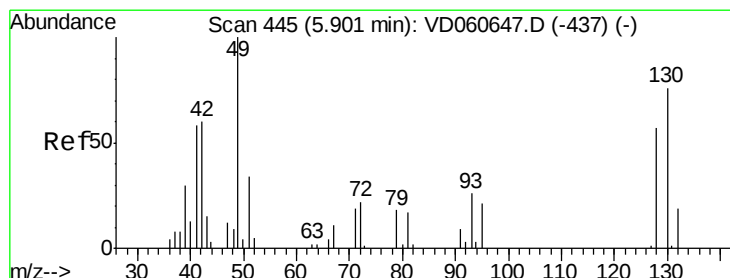
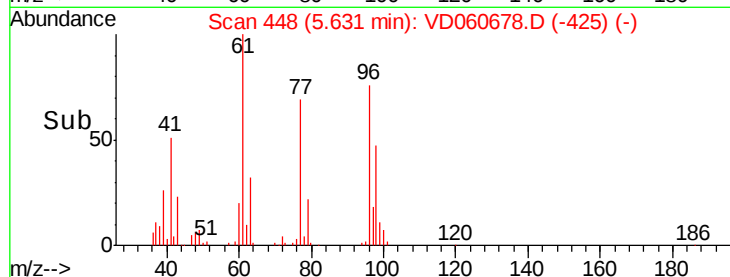
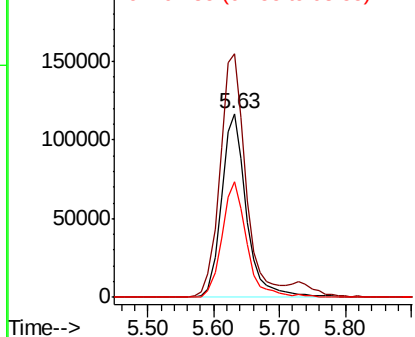
cis-1,2-Dichloroethene
Concen: 20.359 ug/l
RT: 5.63 min Scan# 448
Delta R.T. 0.03 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Instrument :
MSVOA_D
ClientSampleId :
VD1221SBS01

Tot Ion: 96 Resp: 308125
Ion Ratio Lower Upper
96 100
61 132.3 0.0 259.4
98 62.5 0.0 130.0



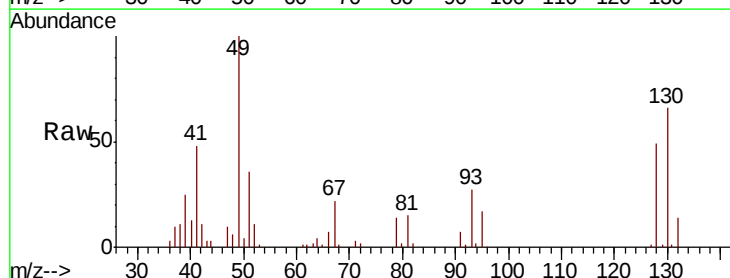
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



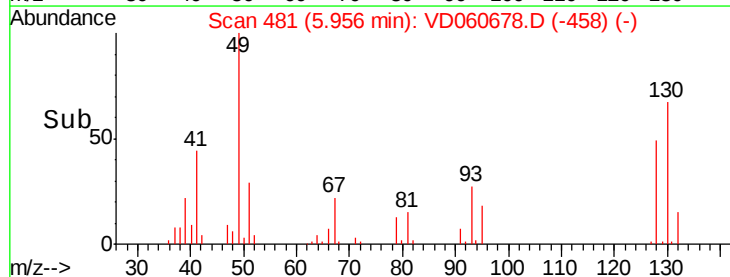
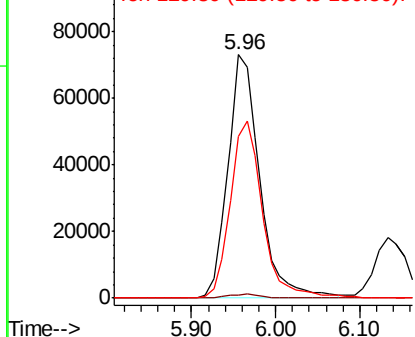
#28

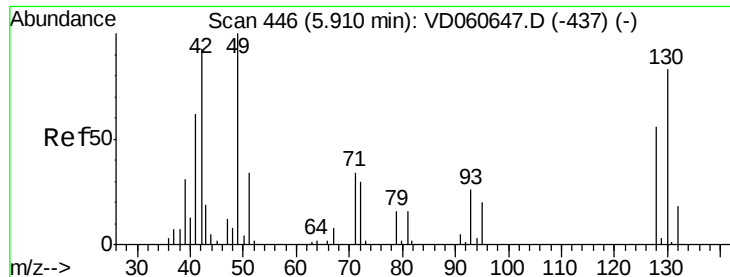
Bromochloromethane
Concen: 19.022 ug/l
RT: 5.96 min Scan# 481
Delta R.T. 0.03 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Tgt Ion: 49 Resp: 191718
Ion Ratio Lower Upper
49 100
129 1.4 0.0 3.4
130 66.4 56.2 84.2



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

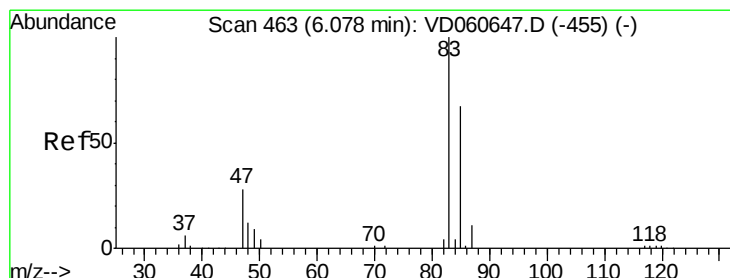
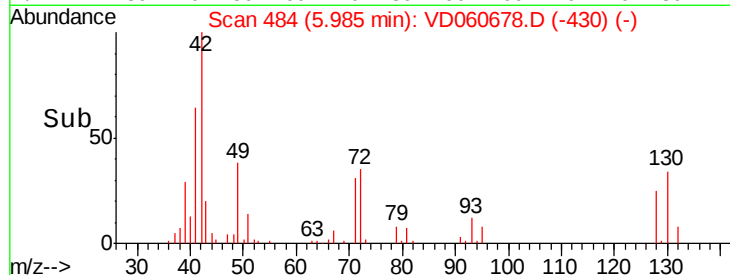
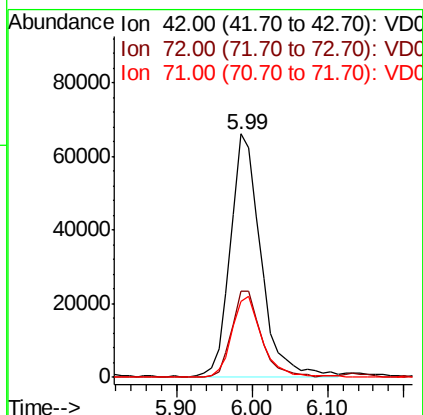
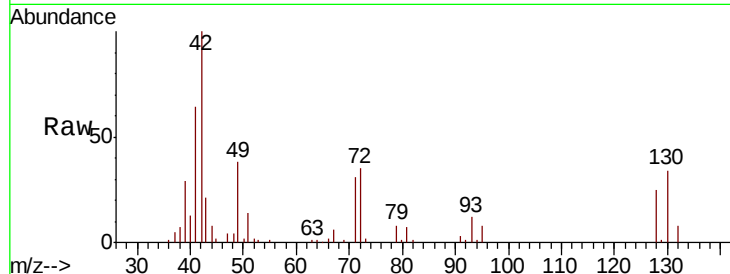




#29
Tetrahydrofuran
Concen: 107.658 ug/l
RT: 5.99 min Scan# 484
Delta R.T. 0.03 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

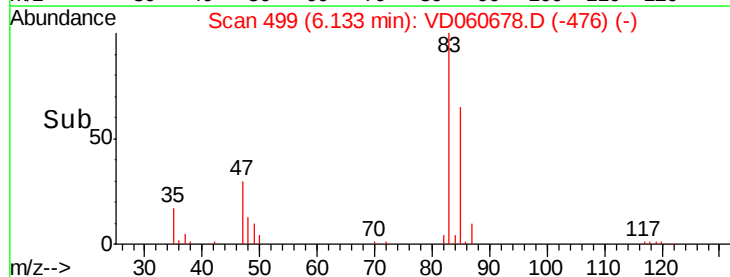
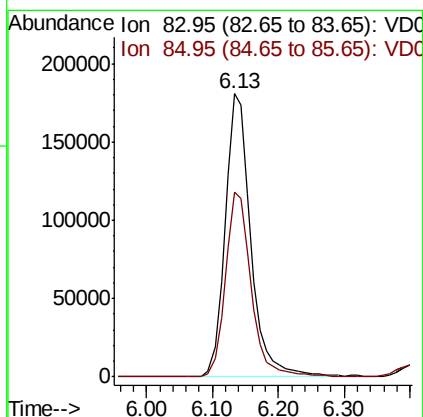
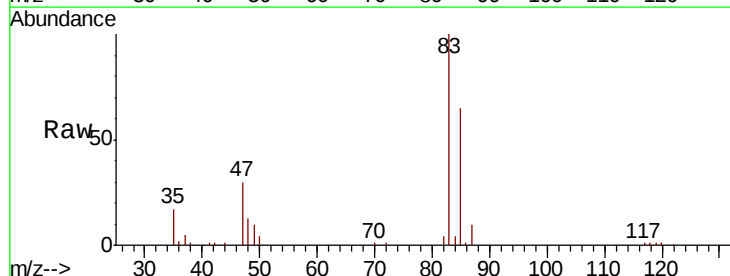
Instrument :
MSVOA_D
ClientSampleId :
VD1221SBS01

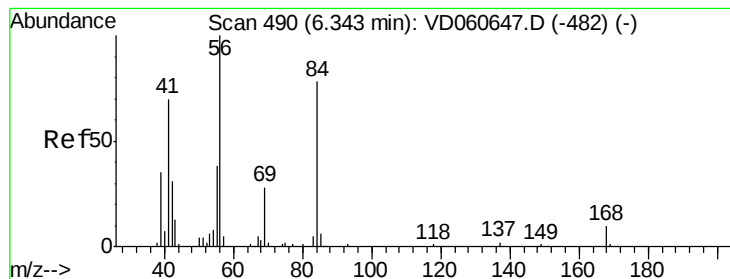
Tot Ion: 42 Resp: 185393
Ion Ratio Lower Upper
42 100
72 33.7 28.0 42.0
71 32.5 27.0 40.6



#30
Chloroform
Concen: 20.489 ug/l
RT: 6.13 min Scan# 499
Delta R.T. 0.03 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Tgt Ion: 83 Resp: 491860
Ion Ratio Lower Upper
83 100
85 65.4 53.0 79.6





#31

Cyclohexane

Concen: 19.769 ug/l

RT: 6.40 min Scan# 526

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :
MSVOA_D
ClientSampleId :
VD1221SBS01

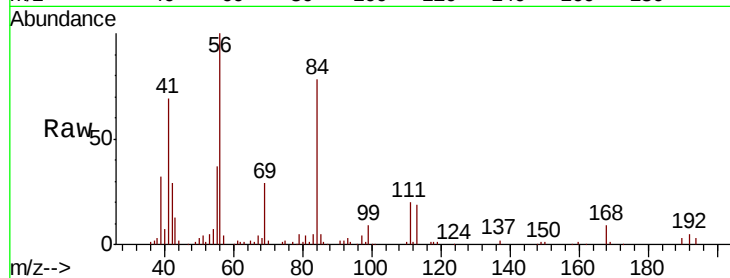
Tot Ion: 56 Resp: 453865

Ion Ratio Lower Upper

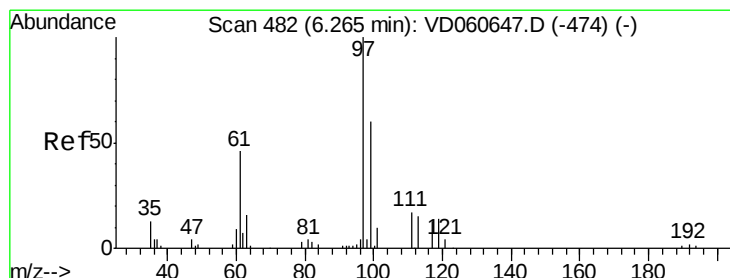
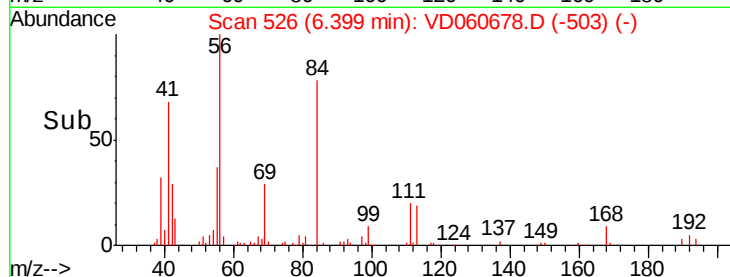
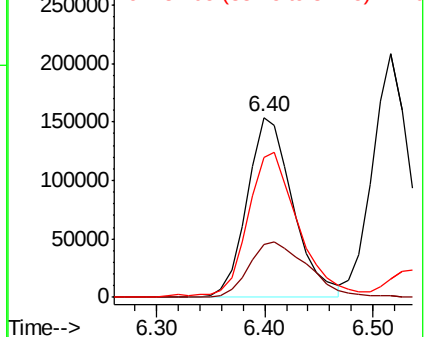
56 100

69 29.1 23.6 35.4

84 77.9 65.8 98.6



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: 19.805 ug/l

RT: 6.33 min Scan# 519

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

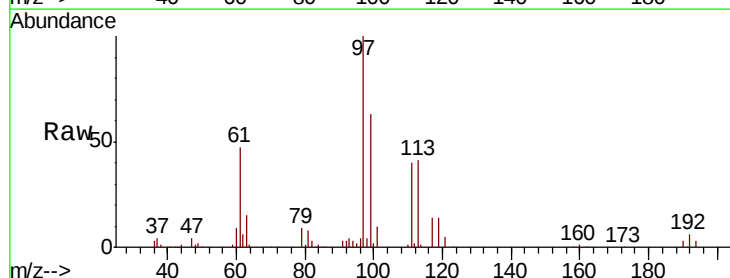
Tgt Ion: 97 Resp: 393347

Ion Ratio Lower Upper

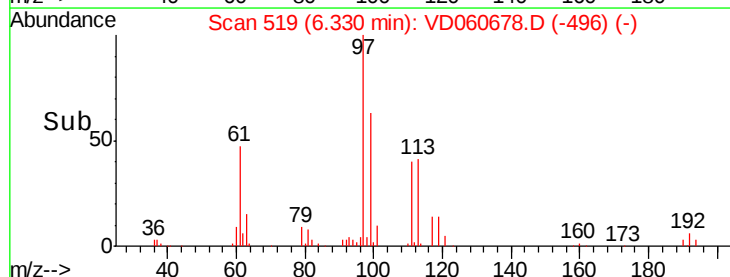
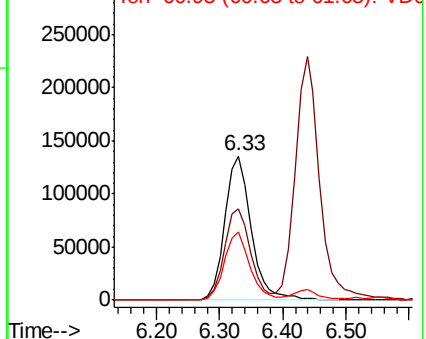
97 100

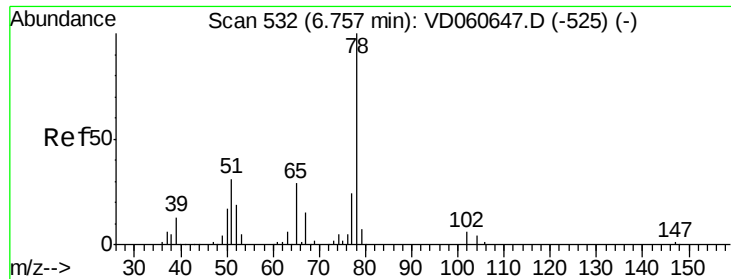
99 63.4 50.5 75.7

61 46.9 34.6 51.8



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

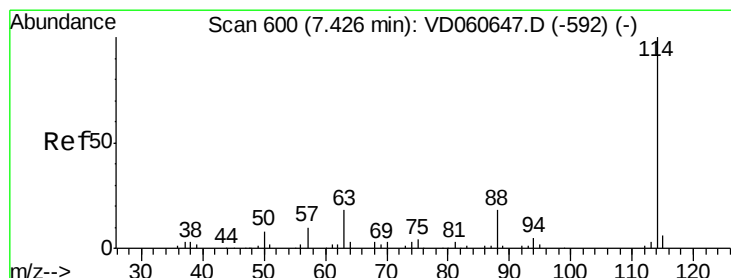
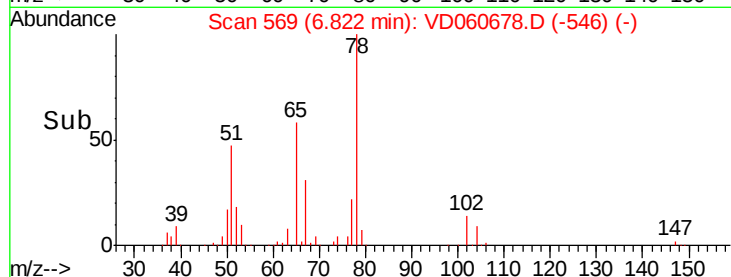
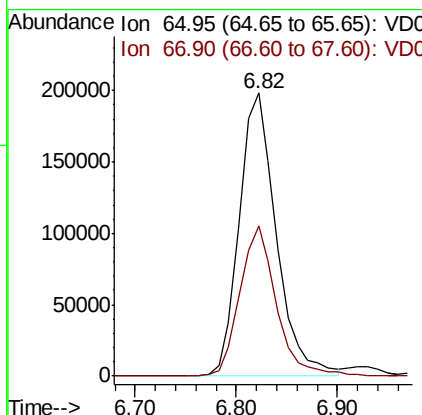
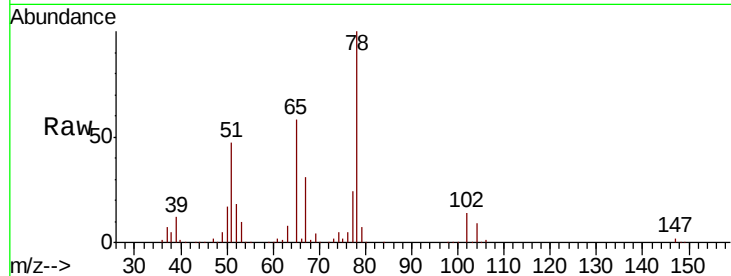




#33
 1,2-Dichloroethane-d4
 Concen: 19.805 ug/l
 RT: 6.82 min Scan# 569
 Delta R.T. 0.03 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

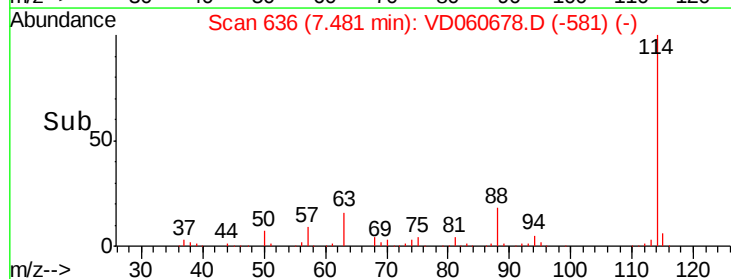
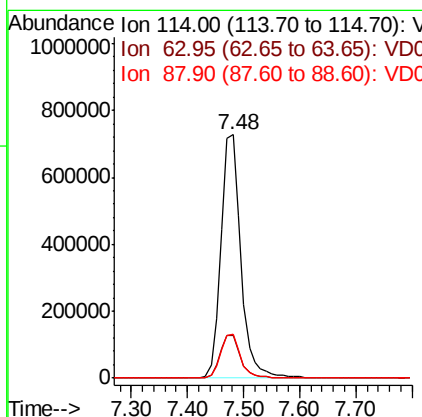
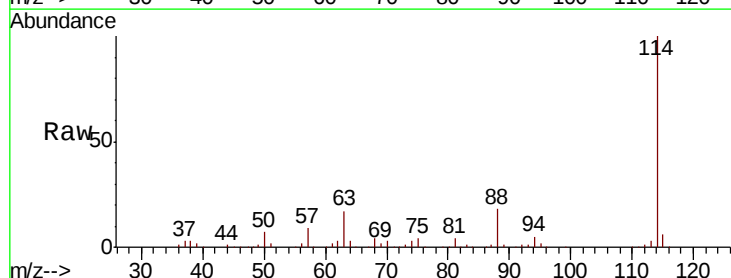
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1221SBS01

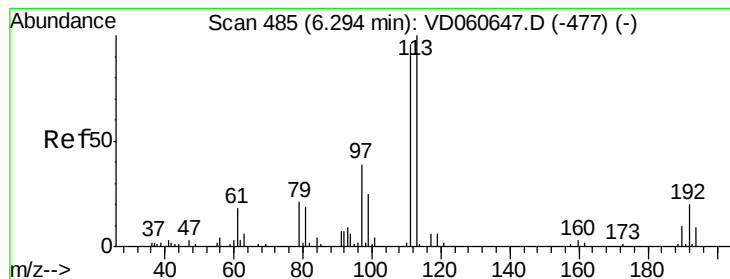
Tot Ion: 65 Resp: 507547
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.48 min Scan# 636
 Delta R.T. 0.04 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

Tgt Ion: 114 Resp: 1805044
 Ion Ratio Lower Upper
 114 100
 63 17.4 0.0 36.2
 88 17.8 0.0 37.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.36 min Scan# 522

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD1221SBS01

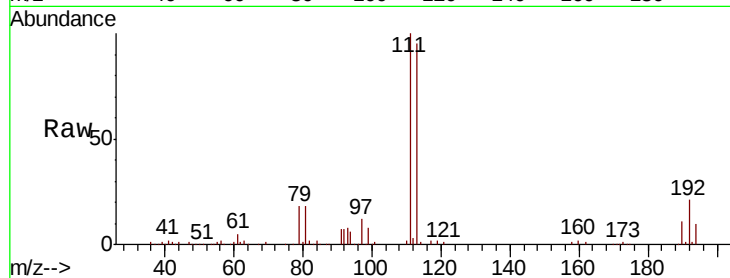
Tot Ion:113 Resp: 723144

Ion Ratio Lower Upper

113 100

111 104.7 80.0 120.0

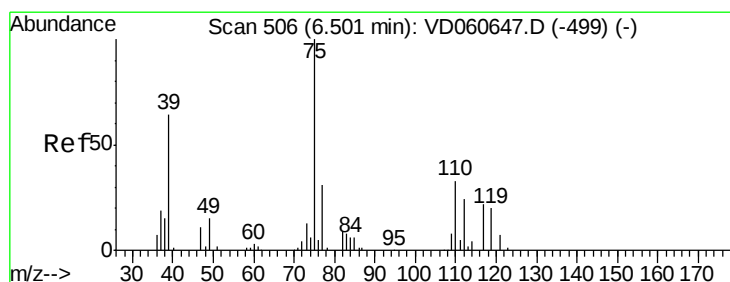
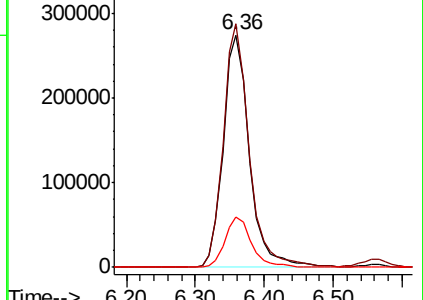
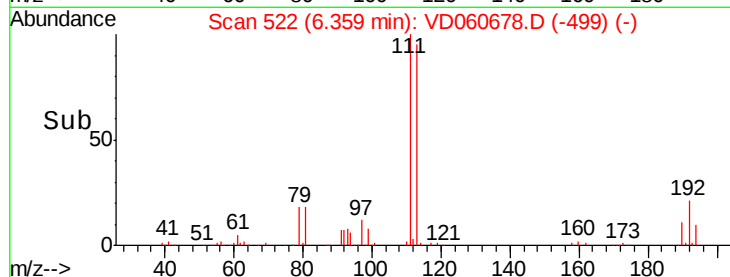
192 21.8 16.6 25.0



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 20.820 ug/l

RT: 6.56 min Scan# 542

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

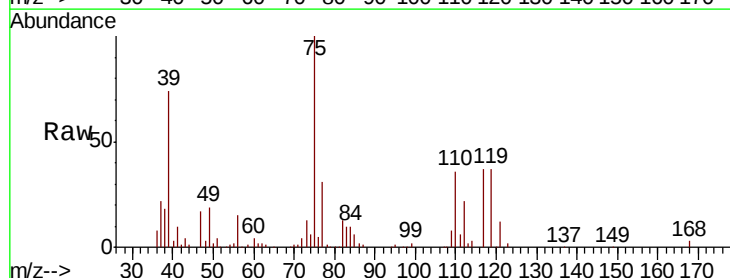
Tgt Ion: 75 Resp: 386989

Ion Ratio Lower Upper

75 100

110 35.8 18.9 56.7

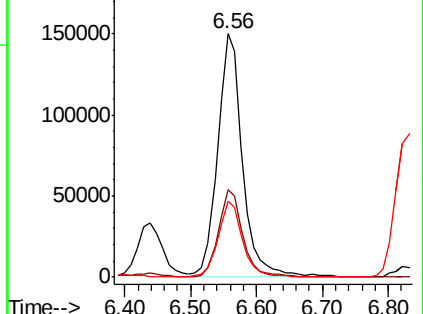
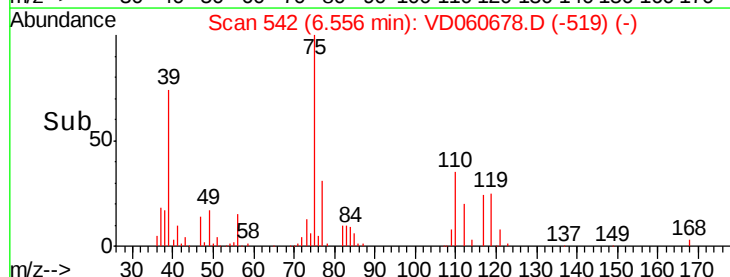
77 31.4 25.4 38.0

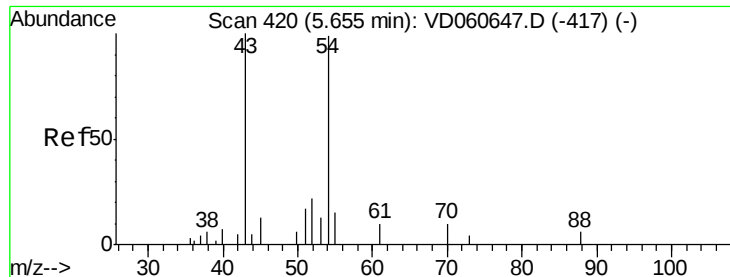


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

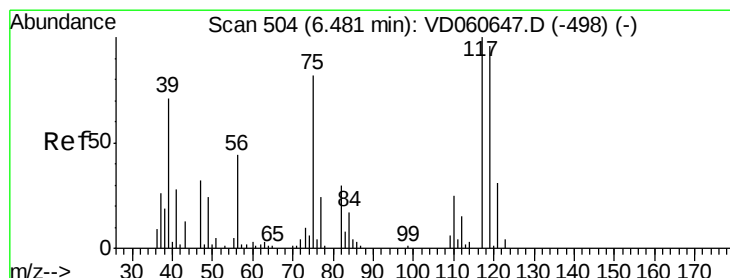
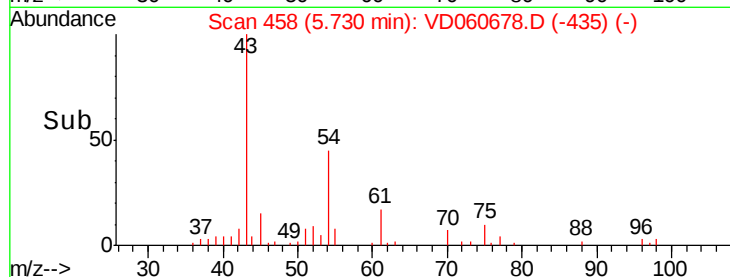
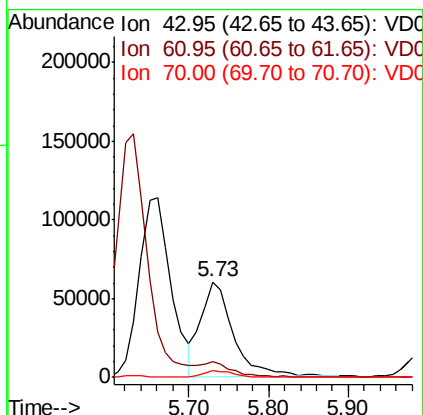
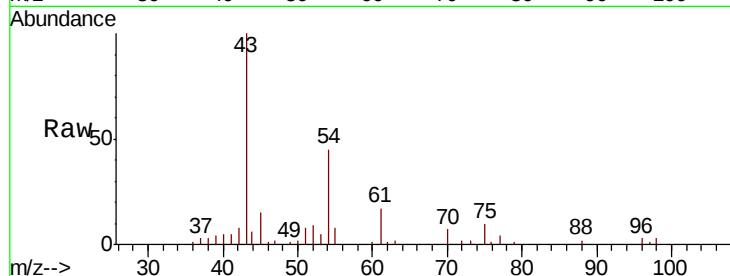




#37
Ethyl Acetate
Concen: 21.629 ug/l
RT: 5.73 min Scan# 458
Delta R.T. 0.03 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

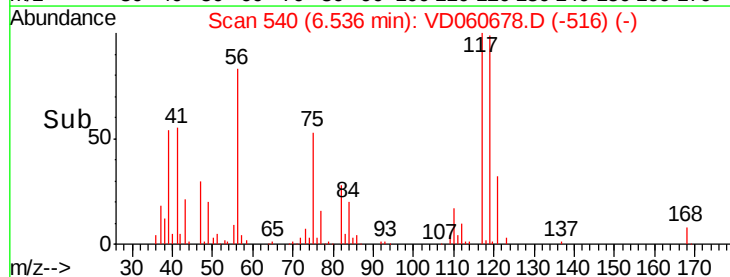
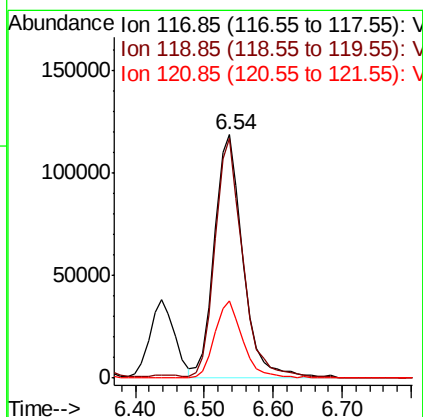
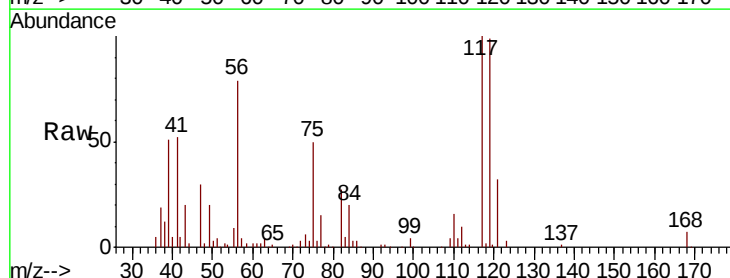
Instrument :
MSVOA_D
ClientSampleId :
VD1221SBS01

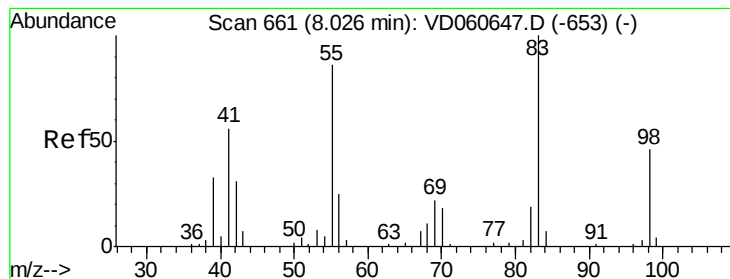
Tot Ion: 43 Resp: 168137
Ion Ratio Lower Upper
43 100
61 16.8 11.8 17.6
70 7.1 5.8 8.6



#38
Carbon Tetrachloride
Concen: 20.526 ug/l
RT: 6.54 min Scan# 540
Delta R.T. 0.04 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Tgt Ion: 117 Resp: 336574
Ion Ratio Lower Upper
117 100
119 98.5 77.0 115.4
121 31.6 24.7 37.1





#39

Methvlcvclohexane

Concen: 20.114 ug/l

RT: 8.07 min Scan# 696

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD1221SBS01

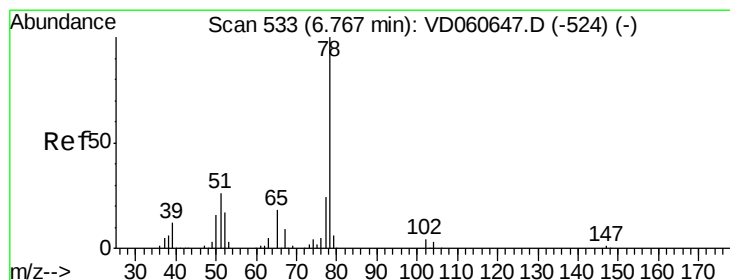
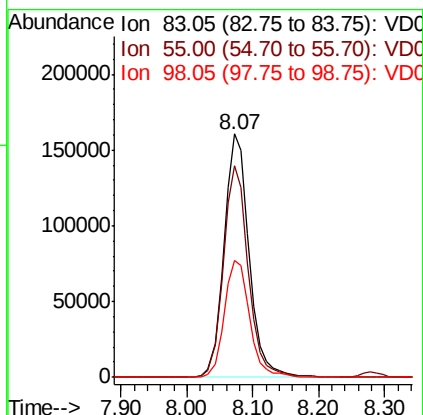
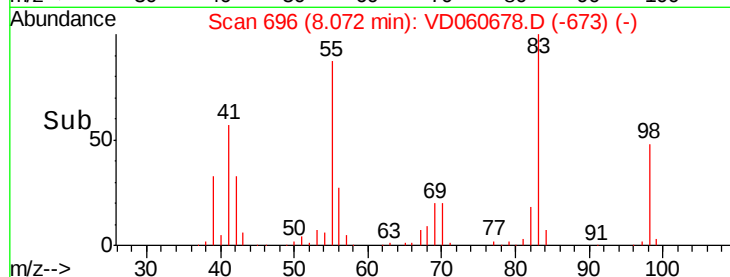
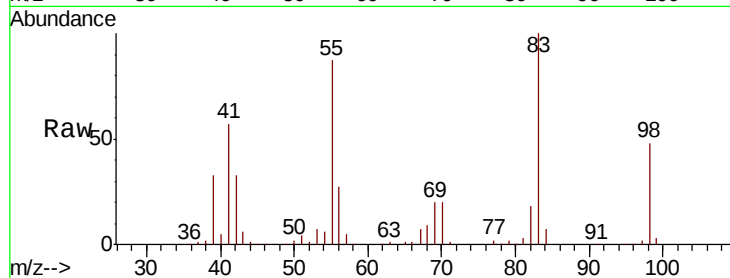
Tot Ion: 83 Resp: 426386

Ion Ratio Lower Upper

83 100

55 86.9 68.6 102.8

98 48.3 38.1 57.1



#40

Benzene

Concen: 20.468 ug/l

RT: 6.83 min Scan# 570

Delta R.T. 0.03 min

Lab File: VD060678.D

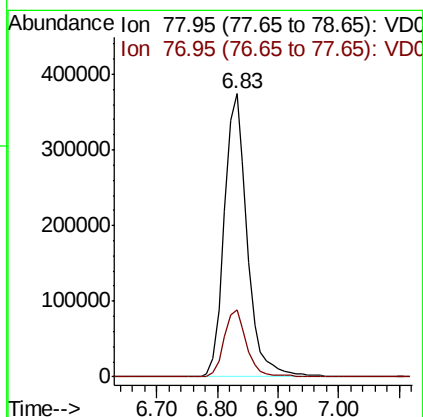
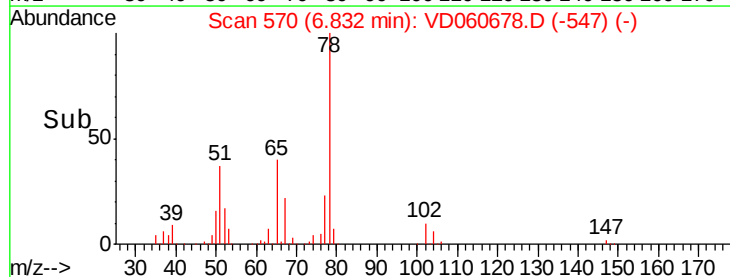
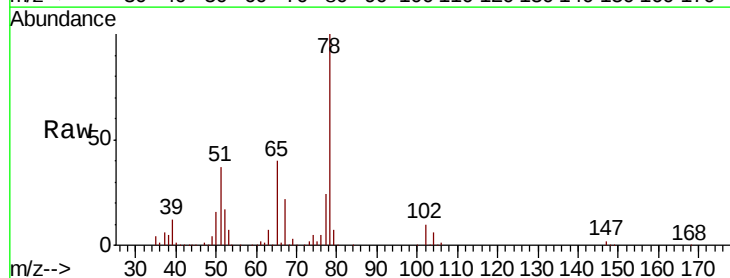
Acq: 21 Dec 2018 12:34

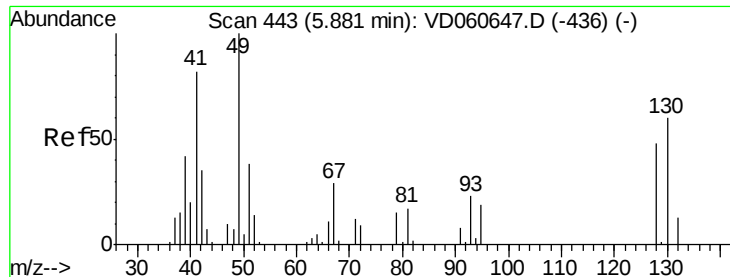
Tgt Ion: 78 Resp: 982690

Ion Ratio Lower Upper

78 100

77 23.7 19.2 28.8

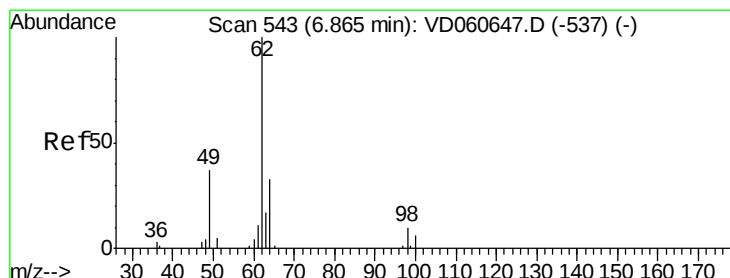
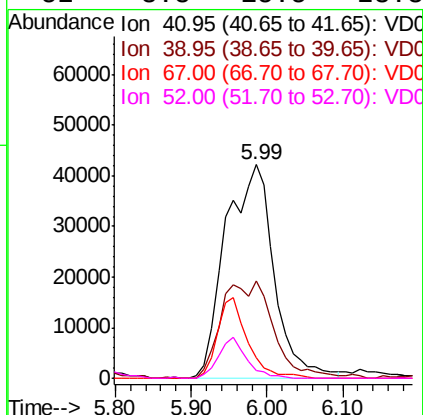
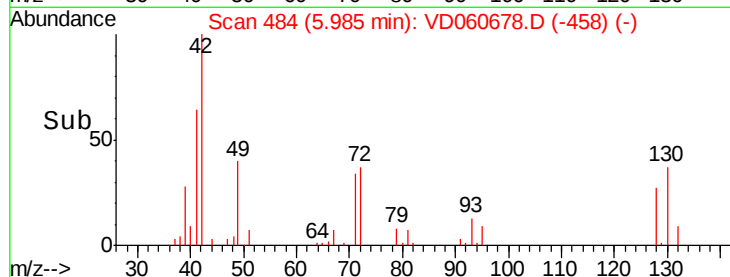
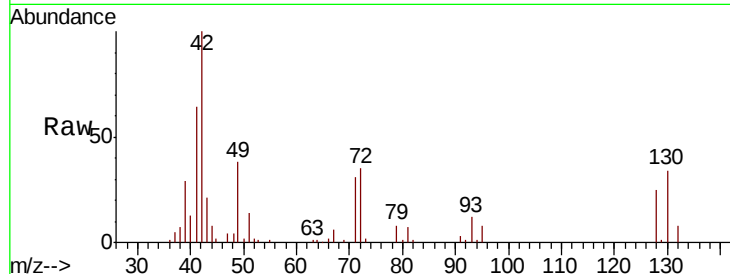




#41
Methacrylonitrile
Concen: 43.738 ug/l
RT: 5.99 min Scan# 484
Delta R.T. 0.06 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

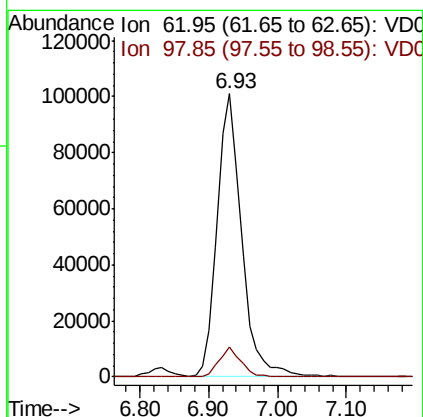
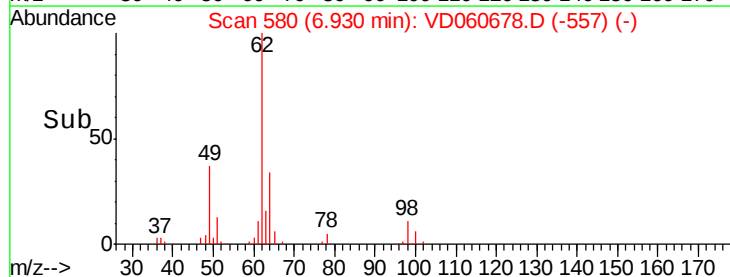
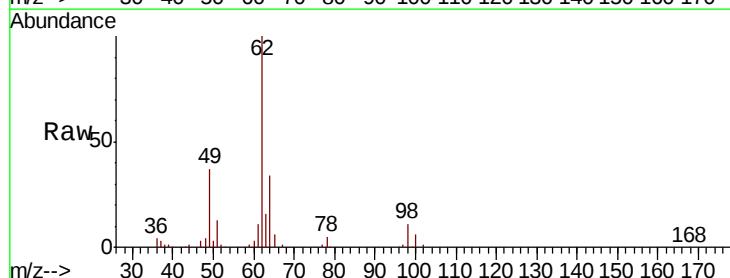
Instrument :
MSVOA_D
ClientSampleId :
VD1221SBS01

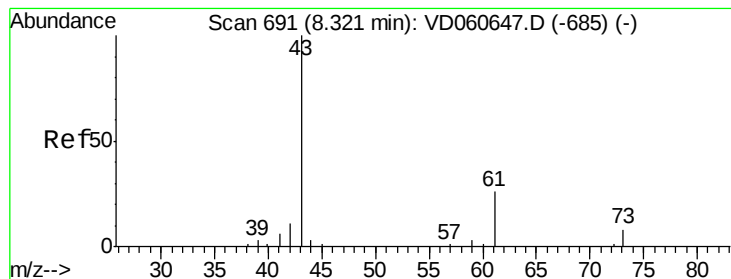
Tot Ion: 41 Resp: 188066
Ion Ratio Lower Upper
41 100
39 45.7 37.6 56.4
67 9.6 33.0 49.6#
52 3.8 15.5 23.3#



#42
1,2-Dichloroethane
Concen: 20.905 ug/l
RT: 6.93 min Scan# 580
Delta R.T. 0.03 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Tgt Ion: 62 Resp: 249071
Ion Ratio Lower Upper
62 100
98 10.5 0.0 20.4





#43

Isopropyl Acetate

Concen: 19.702 ug/l

RT: 8.38 min Scan# 727

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD1221SBS01

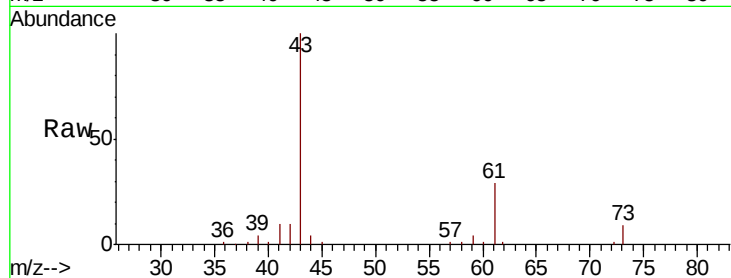
Tot Ion: 43 Resp: 196537

Ion Ratio Lower Upper

43 100

61 29.3 21.8 32.8

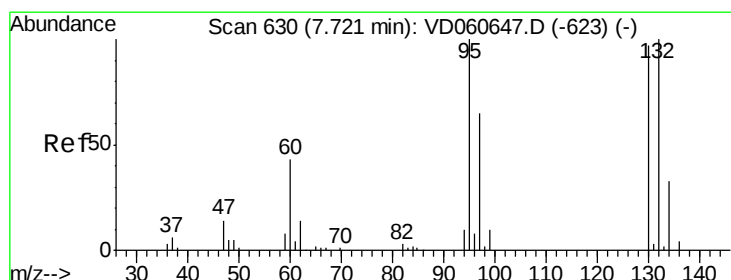
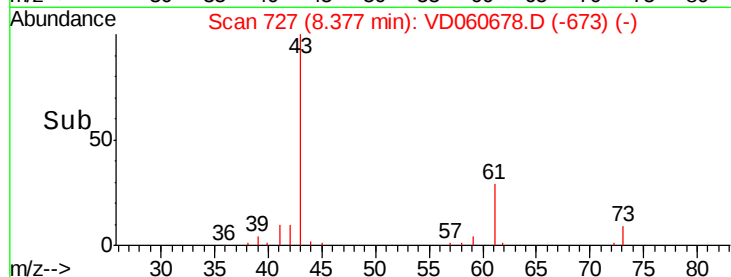
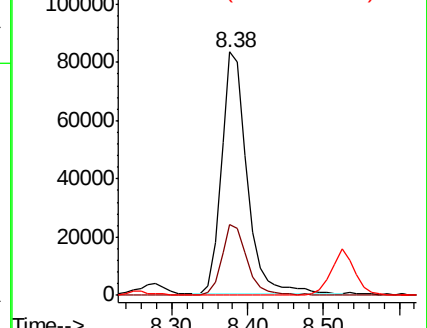
87 0.0 0.2 0.4#



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: 20.195 ug/l

RT: 7.78 min Scan# 666

Delta R.T. 0.03 min

Lab File: VD060678.D

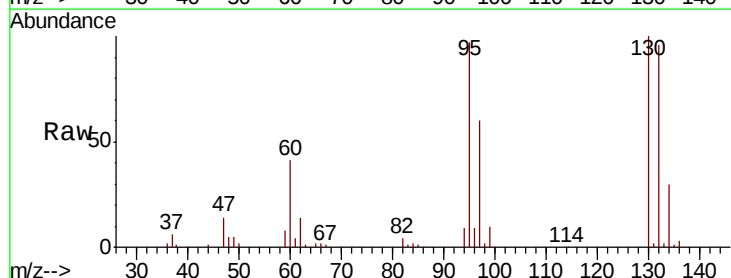
Acq: 21 Dec 2018 12:34

Tgt Ion:130 Resp: 286975

Ion Ratio Lower Upper

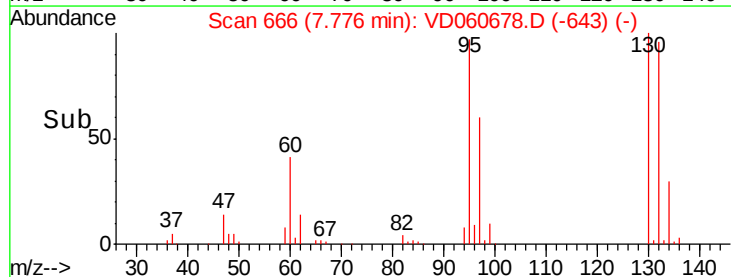
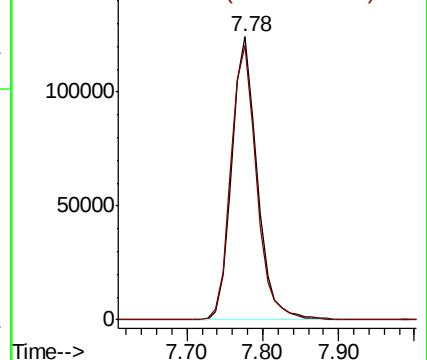
130 100

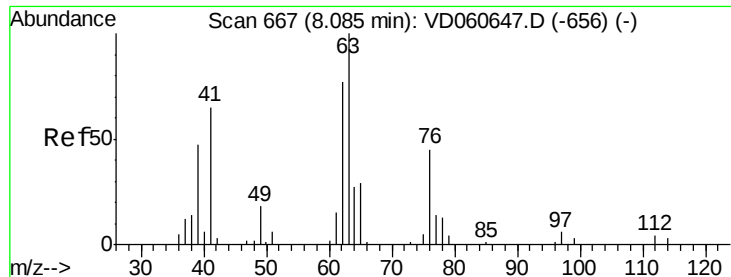
95 97.0 0.0 193.6



Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 20.120 ug/l

RT: 8.14 min Scan# 703

Delta R.T. 0.04 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

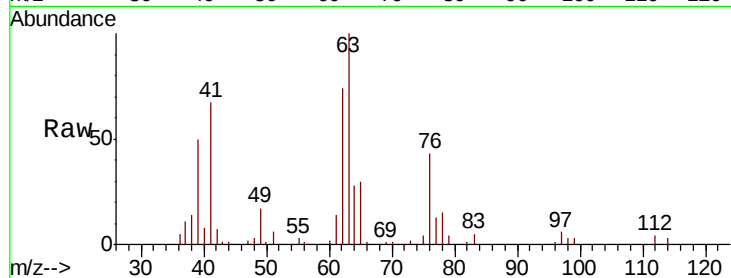
VD1221SBS01

Tot Ion: 63 Resp: 236896

Ion Ratio Lower Upper

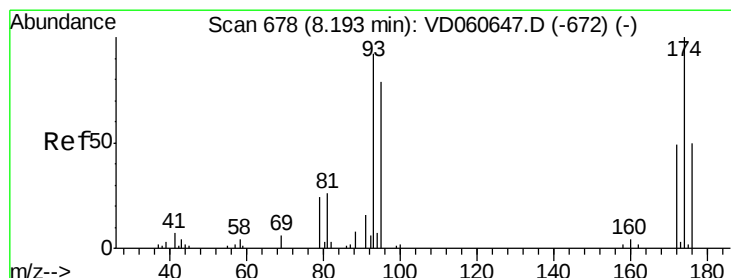
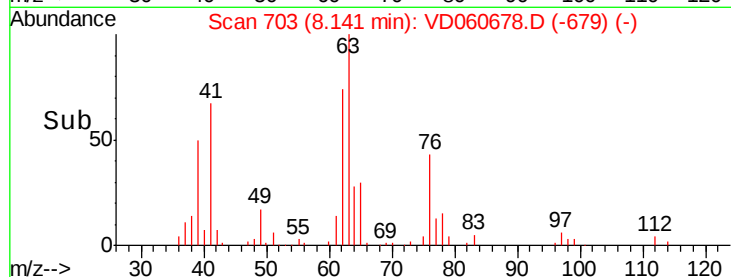
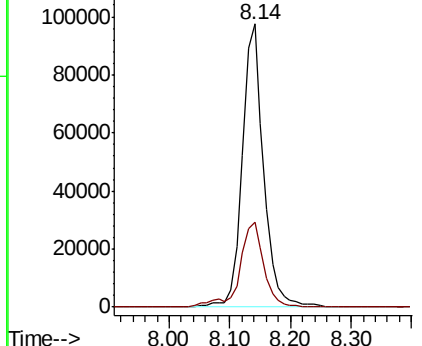
63 100

65 30.2 25.0 37.6



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 20.050 ug/l

RT: 8.25 min Scan# 714

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

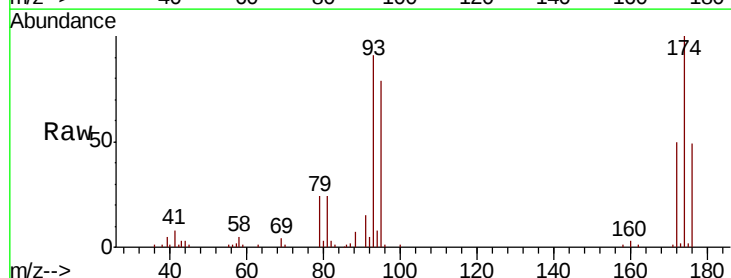
Tgt Ion: 93 Resp: 134738

Ion Ratio Lower Upper

93 100

95 86.4 68.8 103.2

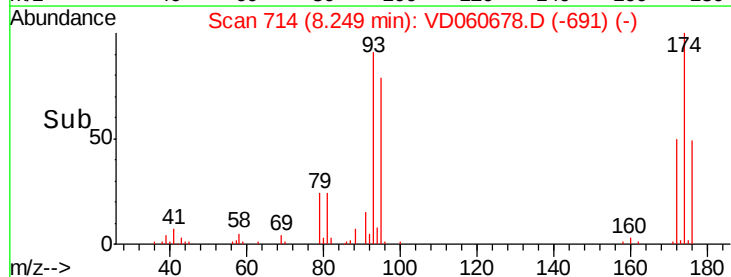
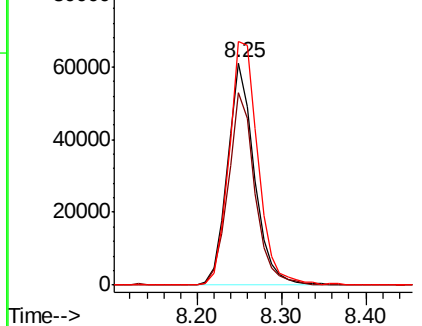
174 109.4 93.0 139.4

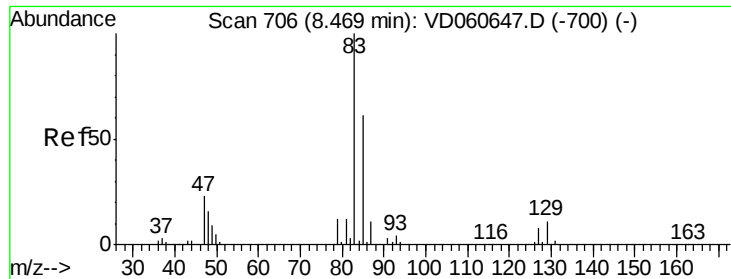


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 20.393 ug/l

RT: 8.52 min Scan# 742

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD1221SBS01

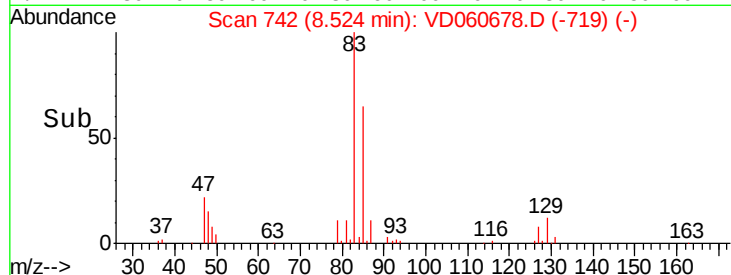
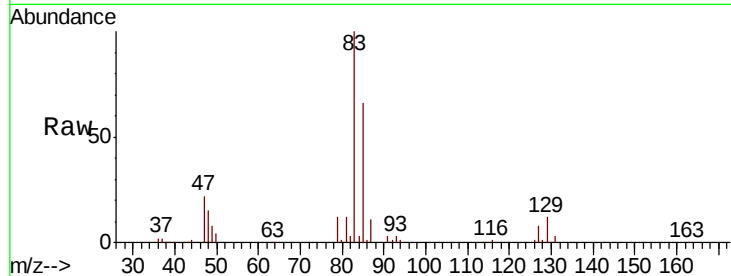
Tot Ion: 83 Resp: 324580

Ion Ratio Lower Upper

83 100

85 66.5 51.1 76.7

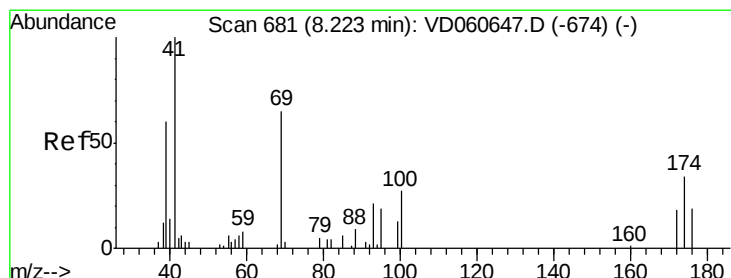
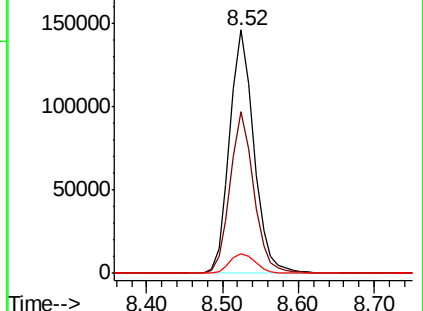
127 8.2 7.0 10.6



Abundance Ion 82.85 (82.55 to 83.55): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 126.80 (126.50 to 127.50): VDC



#48

Methyl methacrylate

Concen: 20.576 ug/l

RT: 8.28 min Scan# 717

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

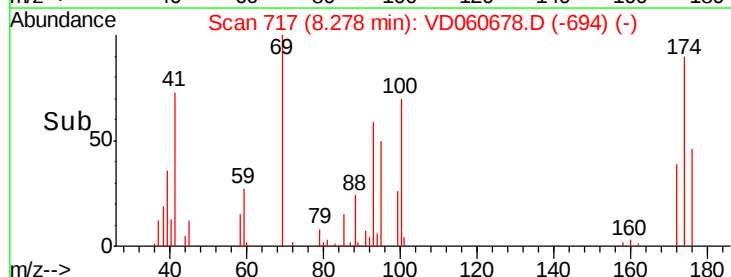
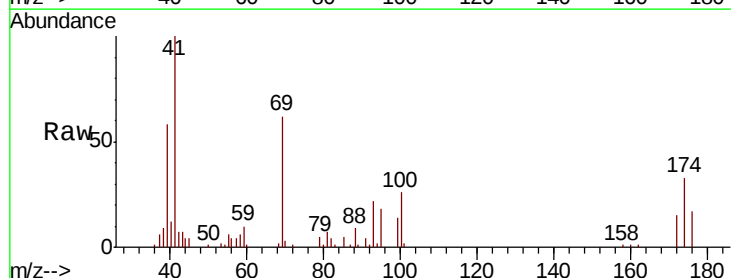
Tgt Ion: 41 Resp: 124669

Ion Ratio Lower Upper

41 100

69 61.6 51.2 76.8

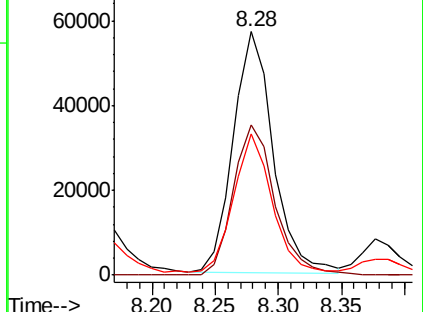
39 58.0 44.6 67.0

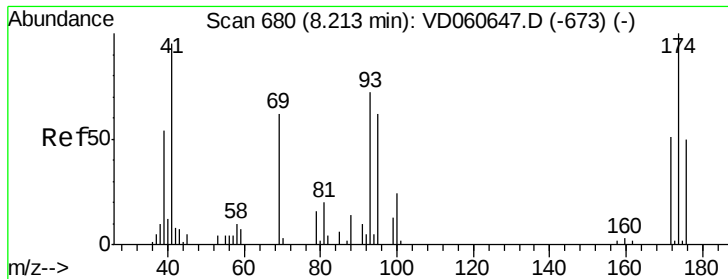


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 38.95 (38.65 to 39.65): VDC

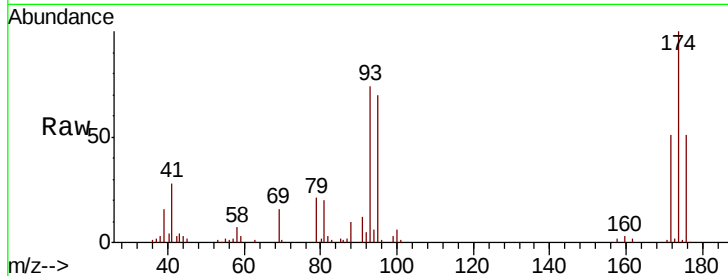




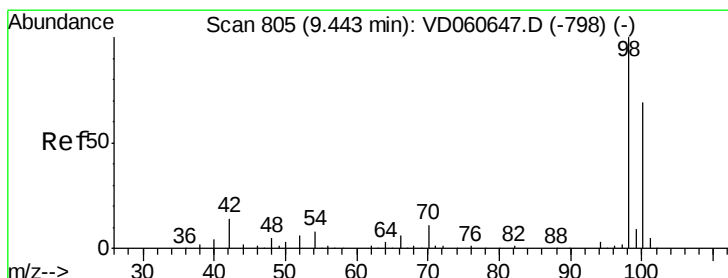
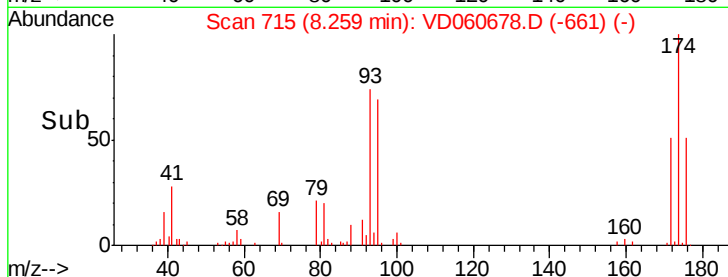
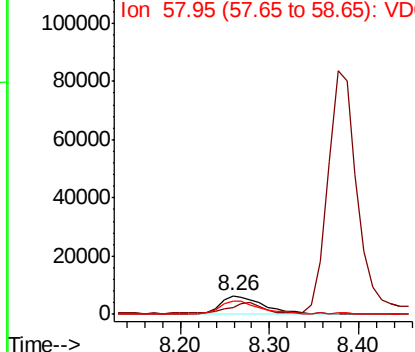
#49
1,4-Dioxane
Concen: 371.387 ug/l
RT: 8.26 min Scan# 715
Delta R.T. 0.03 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Instrument :
MSVOA_D
ClientSampleId :
VD1221SBS01

Tot Ion: 88 Resp: 20922
Ion Ratio Lower Upper
88 100
43 37.7 31.5 47.3
58 73.7 50.6 76.0

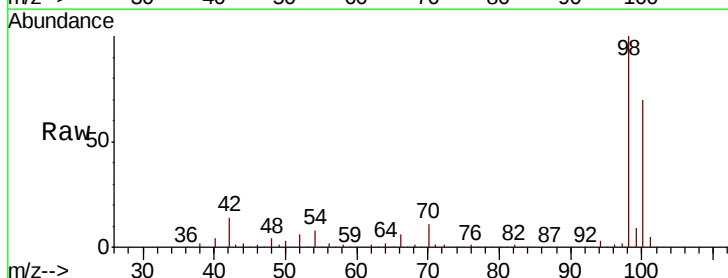


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

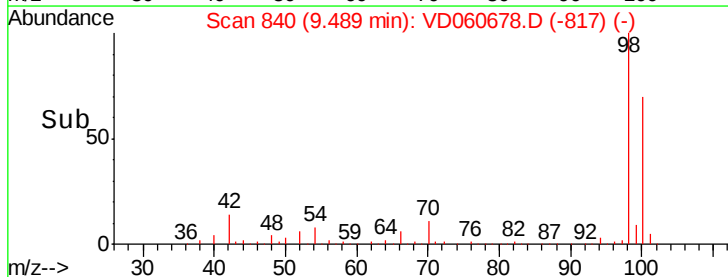
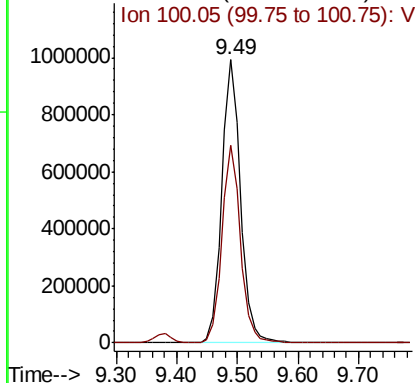


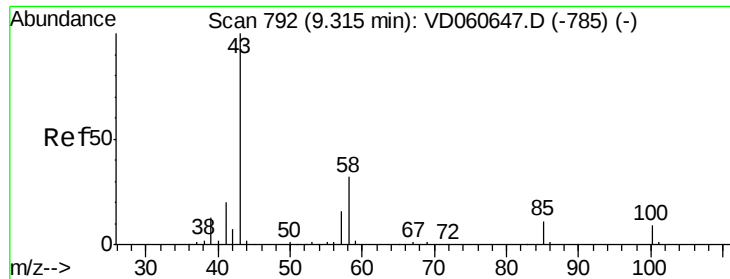
#50
Toluene-d8
Concen: 371.387 ug/l
RT: 9.49 min Scan# 840
Delta R.T. 0.03 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Tgt Ion: 98 Resp: 2129097
Ion Ratio Lower Upper
98 100
100 69.7 55.8 83.8



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





#51

4-Methyl-2-Pentanone

Concen: 106.176 ug/l

RT: 9.37 min Scan# 828

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

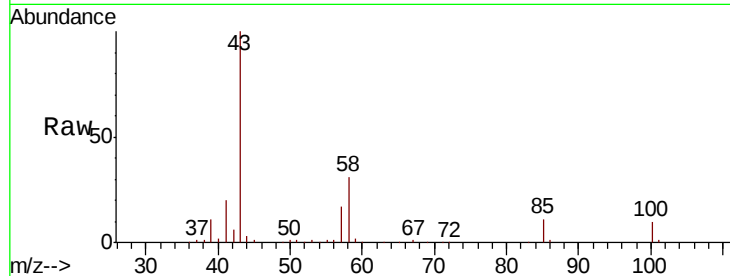
VD1221SBS01

Tot Ion: 43 Resp: 648930

Ion Ratio Lower Upper

43 100

58 31.3 26.3 39.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

9.37

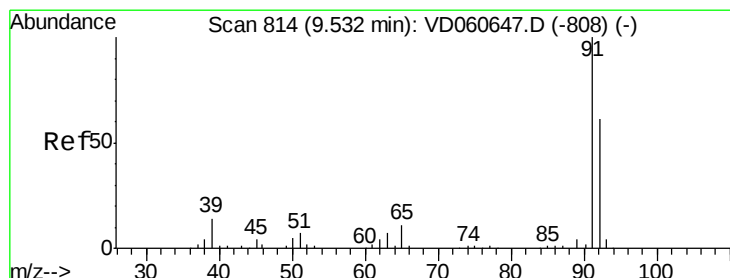
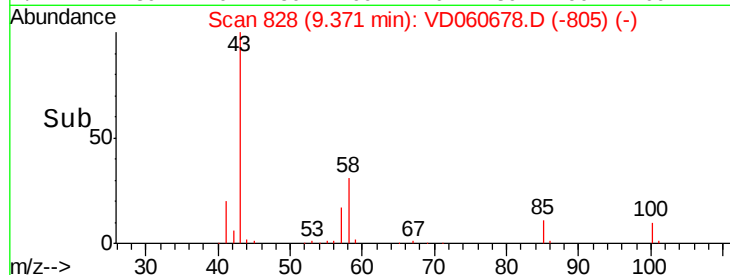
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 20.406 ug/l

RT: 9.58 min Scan# 849

Delta R.T. 0.03 min

Lab File: VD060678.D

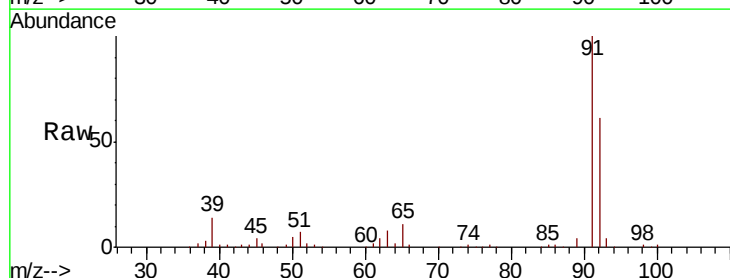
Acq: 21 Dec 2018 12:34

Tgt Ion: 92 Resp: 614187

Ion Ratio Lower Upper

92 100

91 163.9 132.6 199.0



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

9.58

500000

400000

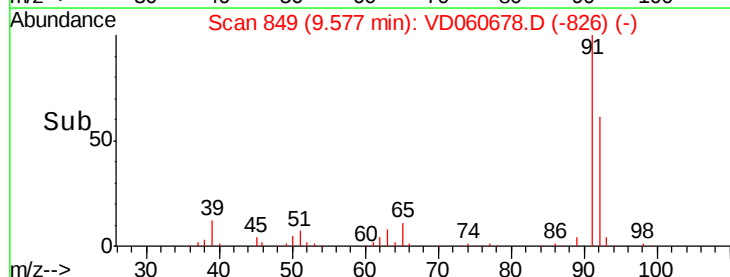
300000

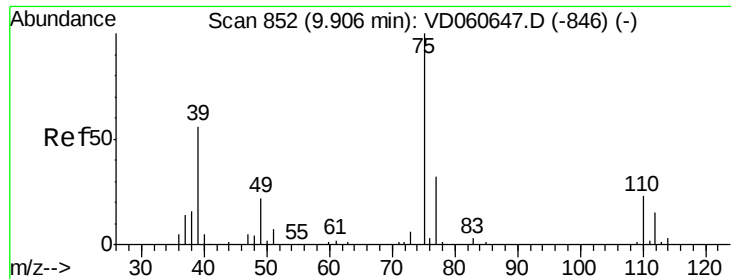
200000

100000

0

Time-->

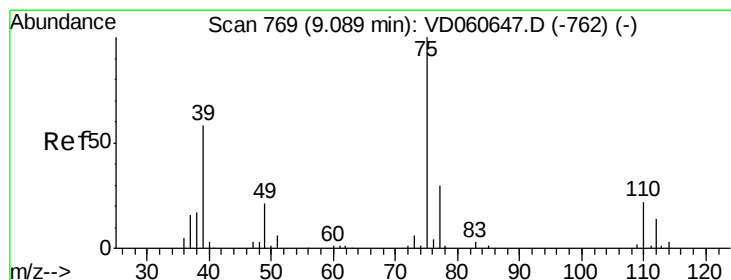
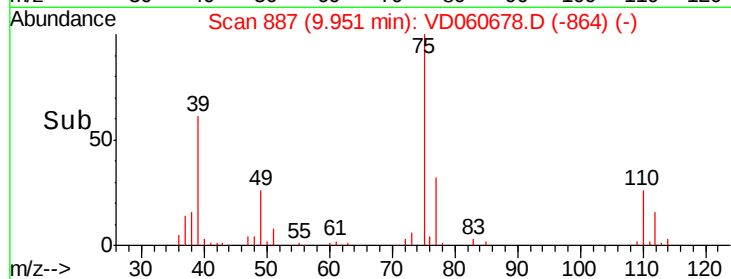
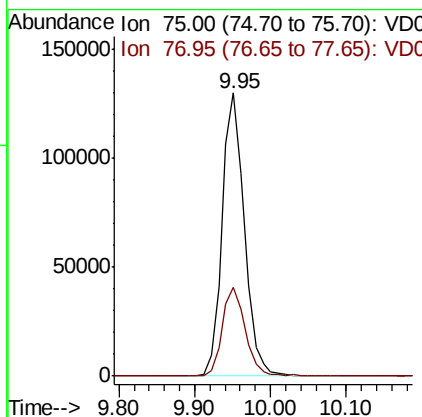
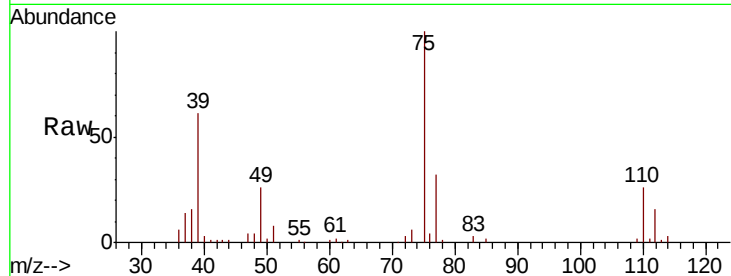




#53
 t-1,3-Dichloropropene
 Concen: 19.848 ug/l
 RT: 9.95 min Scan# 887
 Delta R.T. 0.03 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

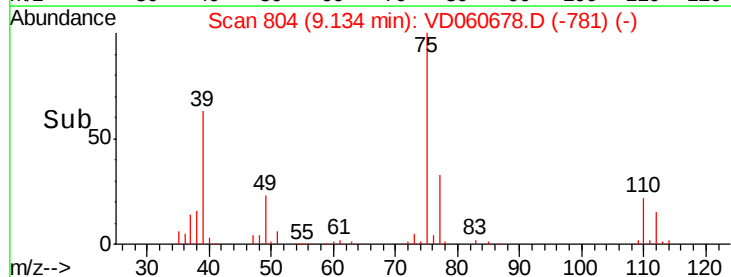
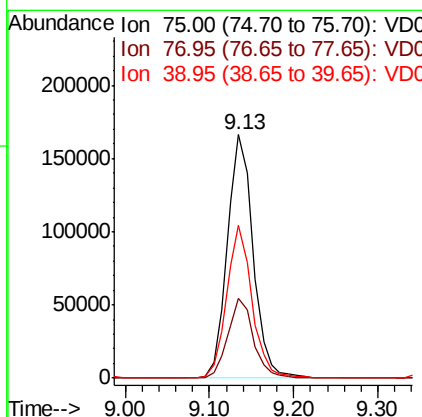
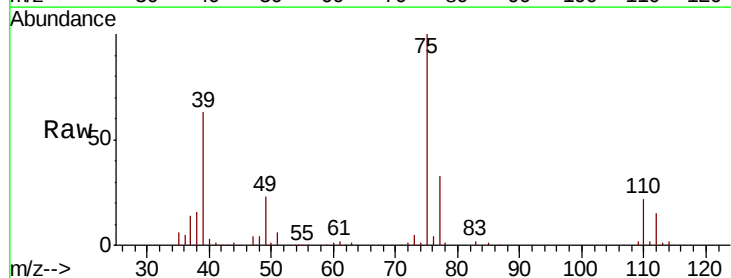
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1221SBS01

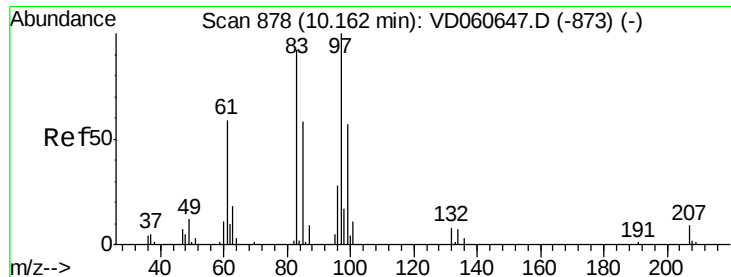
Tot Ion: 75 Resp: 263557
 Ion Ratio Lower Upper
 75 100
 77 31.6 26.0 39.0



#54
 cis-1,3-Dichloropropene
 Concen: 20.368 ug/l
 RT: 9.13 min Scan# 804
 Delta R.T. 0.03 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

Tgt Ion: 75 Resp: 354007
 Ion Ratio Lower Upper
 75 100
 77 32.9 25.4 38.2
 39 62.8 47.0 70.4

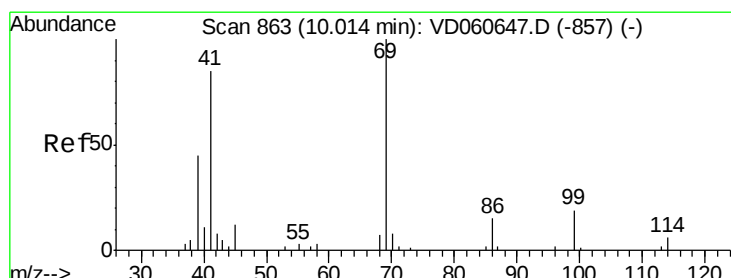
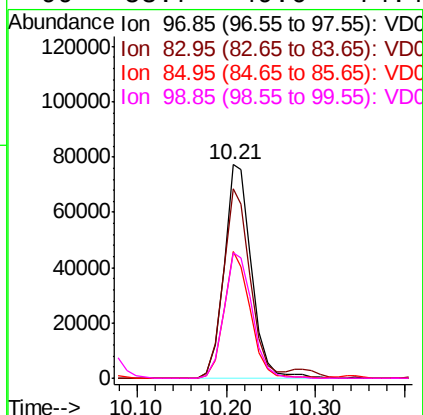
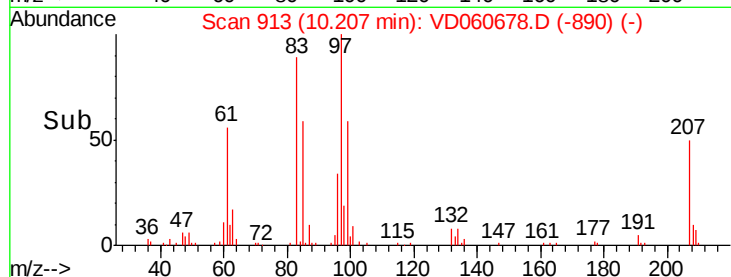
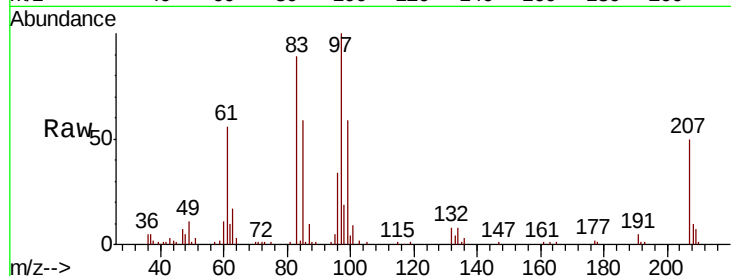




#55
 1,1,2-Trichloroethane
 Concen: 20.481 ug/l
 RT: 10.21 min Scan# 913
 Delta R.T. 0.03 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

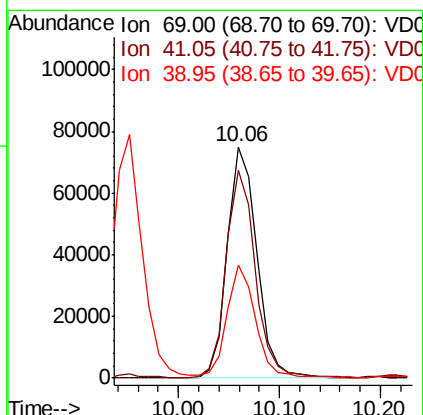
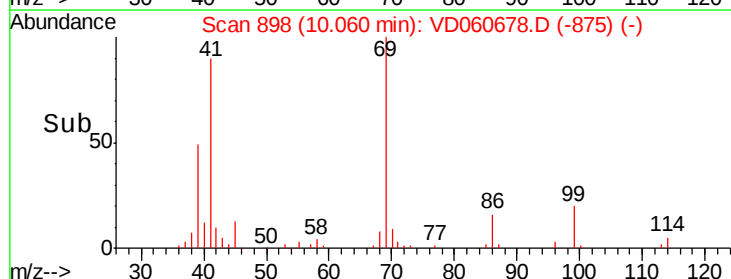
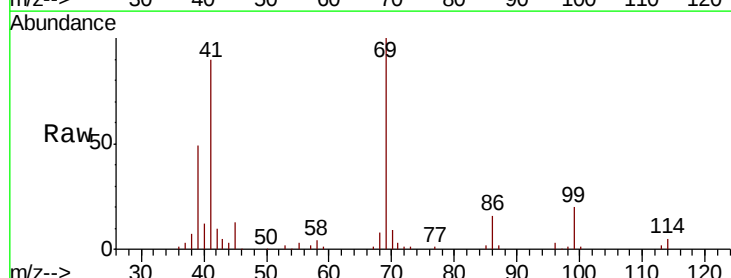
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1221SBS01

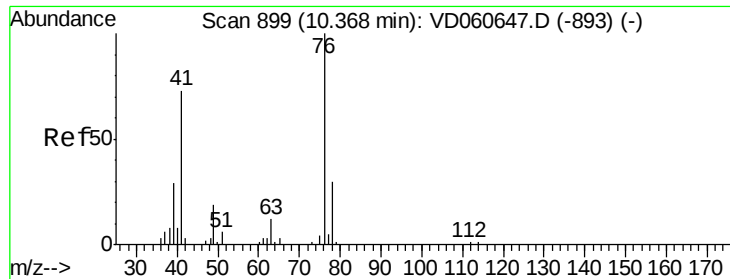
Tot Ion: 97 Resp: 165856
 Ion Ratio Lower Upper
 97 100
 83 88.5 70.0 105.0
 85 59.3 46.6 70.0
 99 58.7 49.6 74.4



#56
 Ethyl methacrylate
 Concen: 20.309 ug/l
 RT: 10.06 min Scan# 898
 Delta R.T. 0.03 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

Tgt Ion: 69 Resp: 152758
 Ion Ratio Lower Upper
 69 100
 41 89.7 68.3 102.5
 39 48.7 37.2 55.8





#57

1,3-Dichloropropane

Concen: 20.358 ug/l

RT: 10.41 min Scan# 934

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

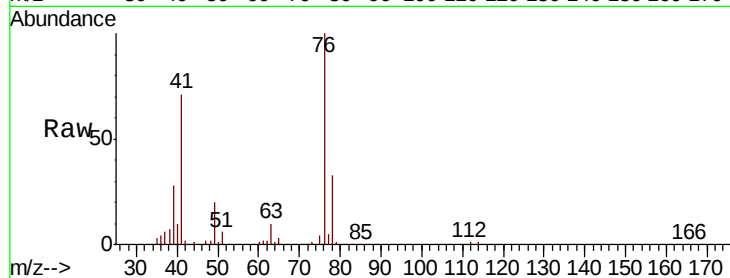
VD1221SBS01

Tot Ion: 76 Resp: 261314

Ion Ratio Lower Upper

76 100

78 33.4 26.1 39.1



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC

10.41

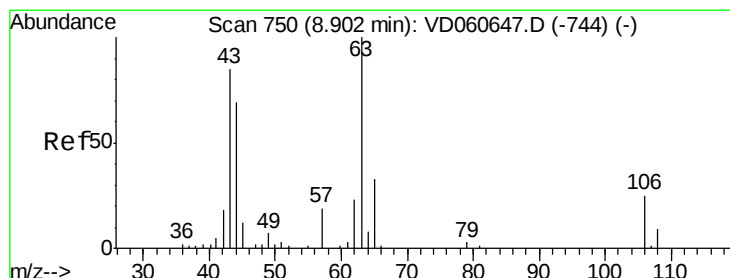
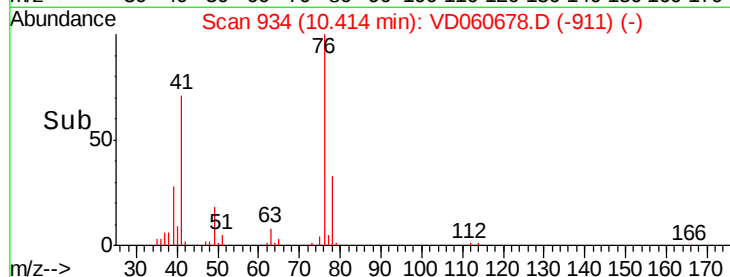
150000

100000

50000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 106.204 ug/l

RT: 8.96 min Scan# 786

Delta R.T. 0.03 min

Lab File: VD060678.D

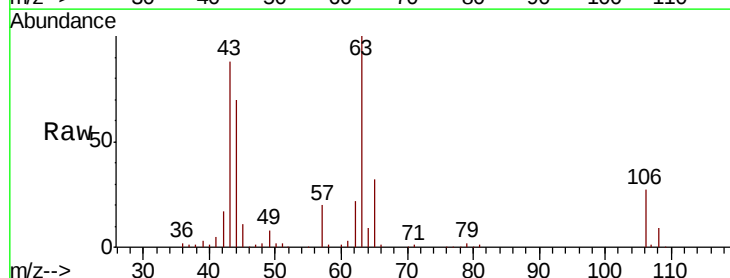
Acq: 21 Dec 2018 12:34

Tgt Ion: 63 Resp: 470698

Ion Ratio Lower Upper

63 100

106 26.6 22.4 33.6



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): VDC

8.96

250000

200000

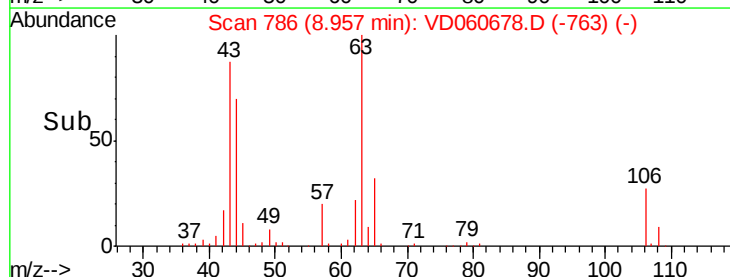
150000

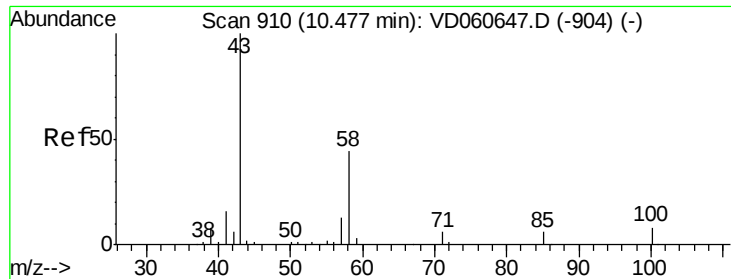
100000

50000

0

Time-->

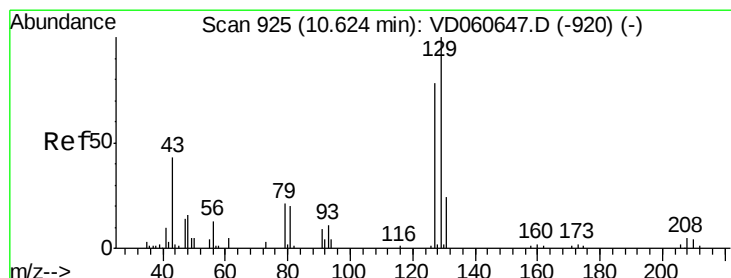
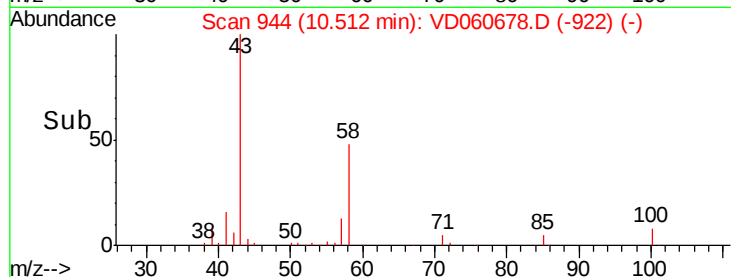
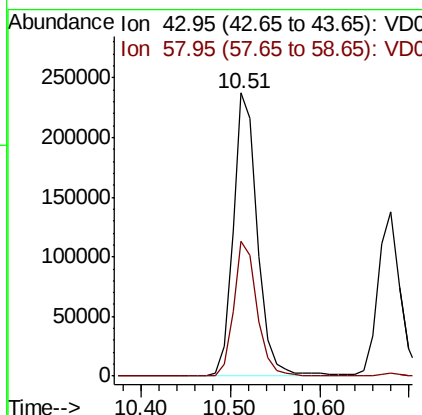
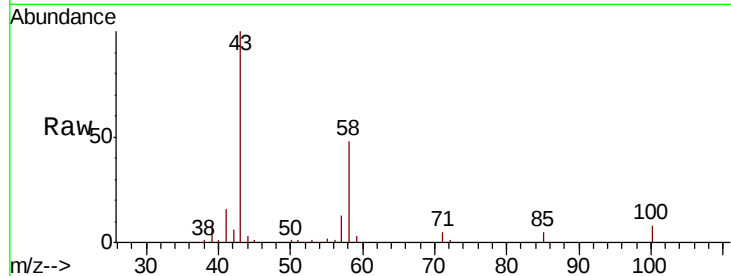




#59
2-Hexanone
Concen: 105.576 ug/l
RT: 10.51 min Scan# 944
Delta R.T. 0.02 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

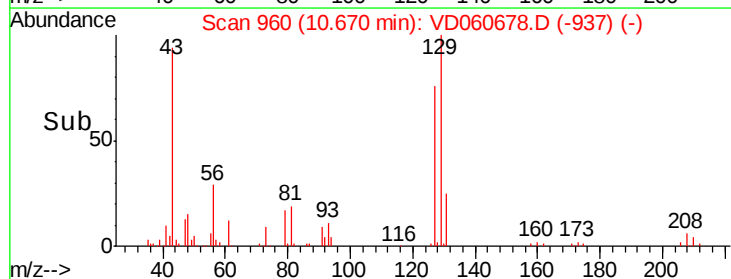
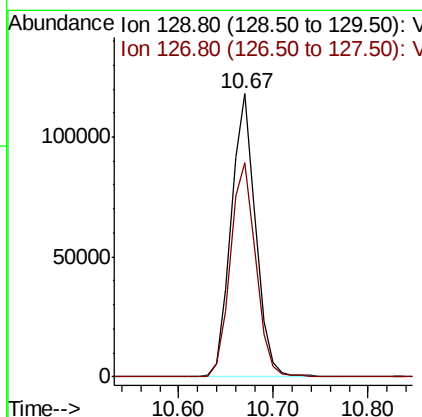
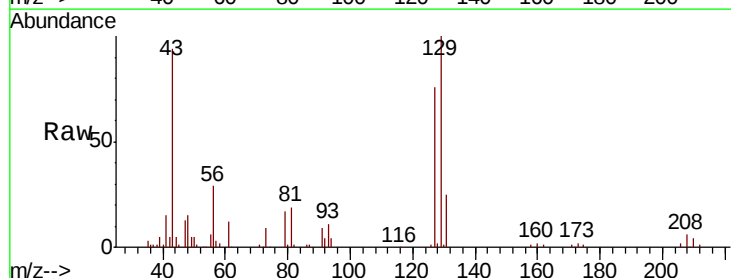
Instrument :
MSVOA_D
ClientSampleId :
VD1221SBS01

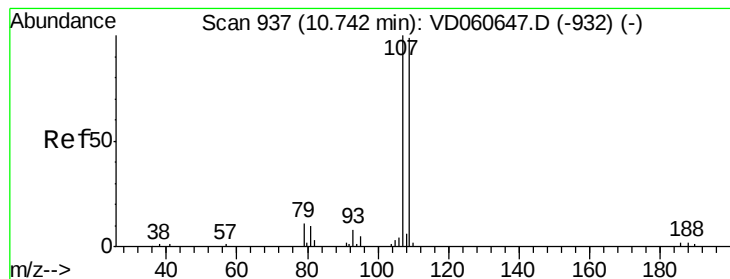
Tot Ion: 43 Resp: 451657
Ion Ratio Lower Upper
43 100
58 47.8 23.5 70.5



#60
Dibromochloromethane
Concen: 20.516 ug/l
RT: 10.67 min Scan# 960
Delta R.T. 0.03 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Tgt Ion: 129 Resp: 211623
Ion Ratio Lower Upper
129 100
127 75.7 37.6 112.9





#61

1,2-Dibromoethane

Concen: 20.352 ug/l

RT: 10.79 min Scan# 972

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

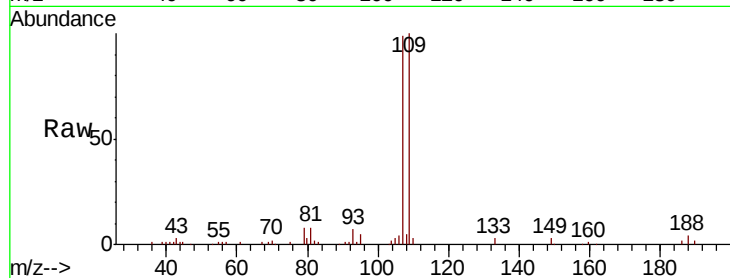
VD1221SBS01

Tot Ion:107 Resp: 170953

Ion Ratio Lower Upper

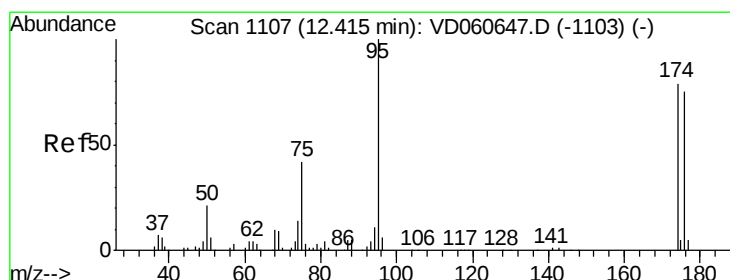
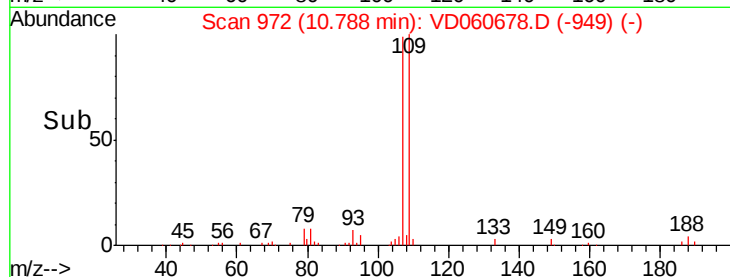
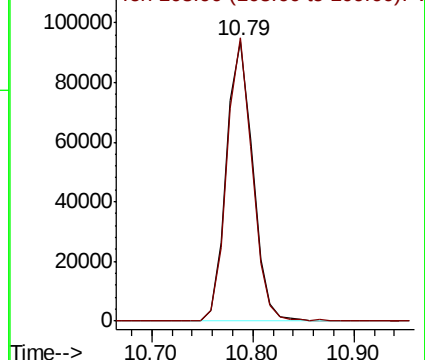
107 100

109 101.1 78.0 117.0



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 20.352 ug/l

RT: 12.45 min Scan# 1141

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

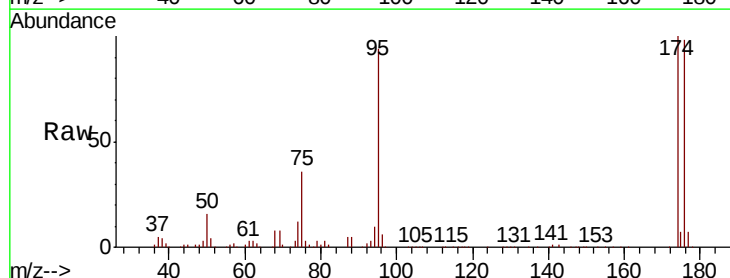
Tgt Ion: 95 Resp: 741767

Ion Ratio Lower Upper

95 100

174 106.9 0.0 158.2

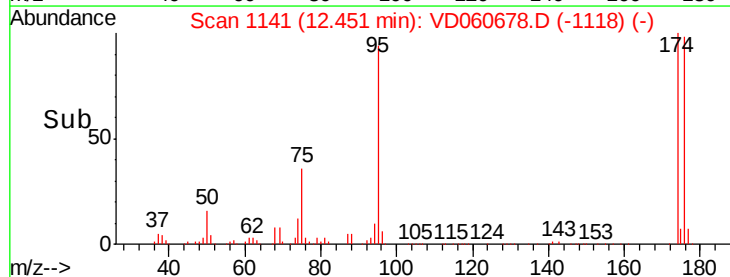
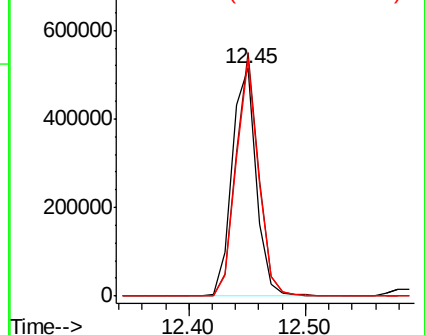
176 104.3 0.0 152.4

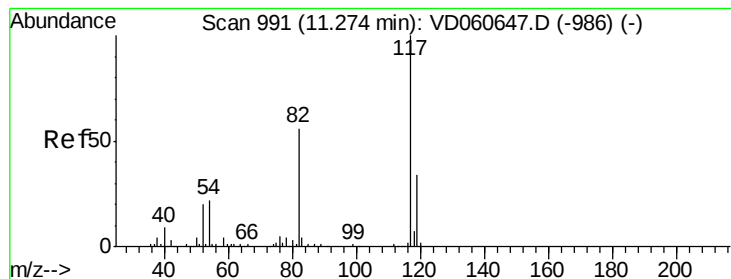


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.31 min Scan# 1025

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD1221SBS01

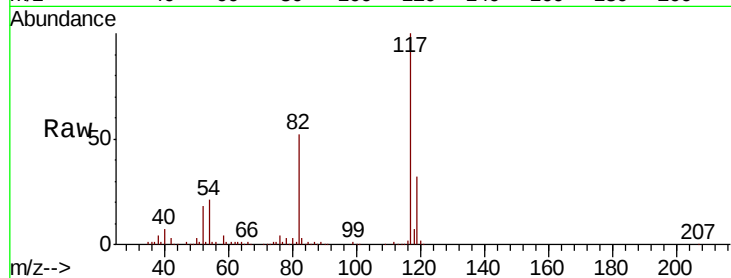
Tot Ion:117 Resp: 1455286

Ion Ratio Lower Upper

117 100

82 52.3 44.5 66.7

119 32.3 26.3 39.5

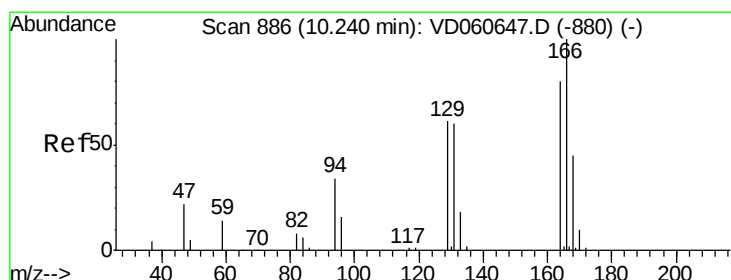
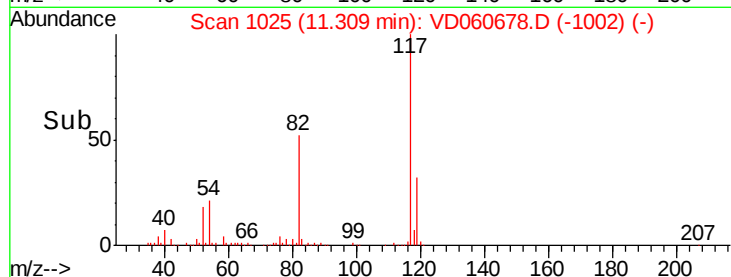
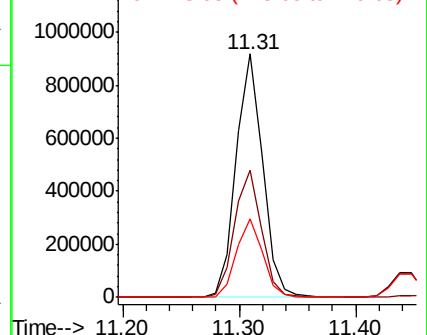


Abundance

Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



#64

Tetrachloroethene

Concen: 20.579 ug/l

RT: 10.29 min Scan# 921

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Tgt Ion:164 Resp: 271441

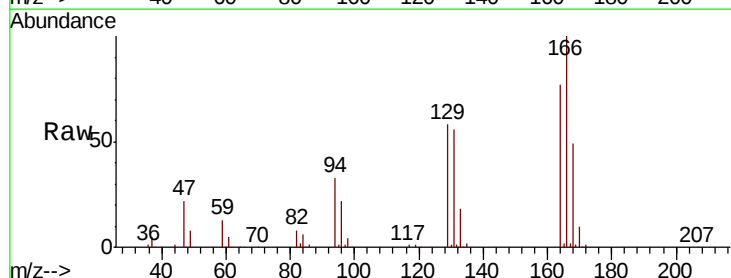
Ion Ratio Lower Upper

164 100

166 130.4 104.4 156.6

129 76.2 62.7 94.1

131 73.6 61.1 91.7



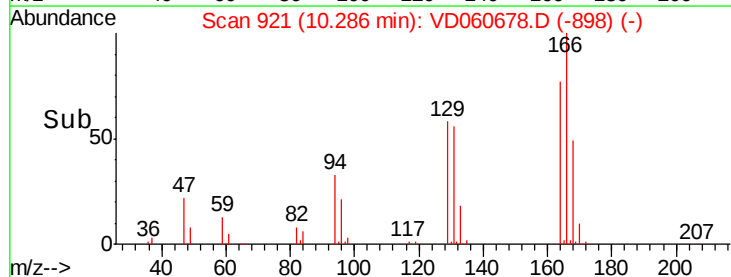
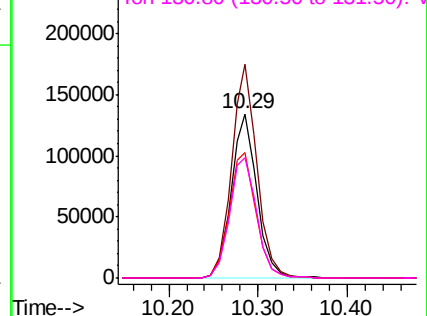
Abundance

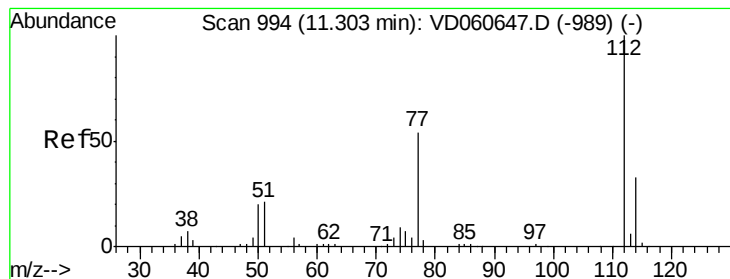
Ion 163.85 (163.55 to 164.55): V

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: 20.598 ug/l

RT: 11.34 min Scan# 1028

Delta R.T. 0.03 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

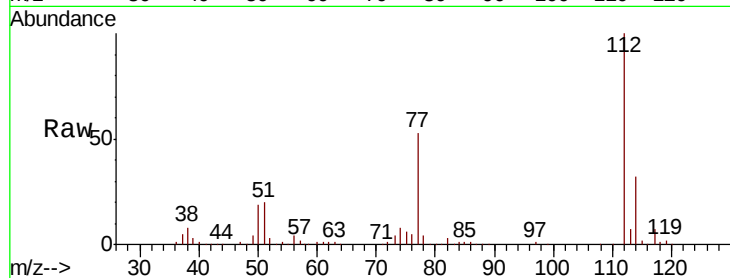
VD1221SBS01

Tot Ion:112 Resp: 662287

Ion Ratio Lower Upper

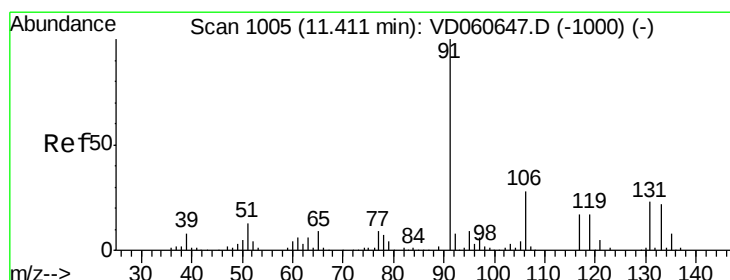
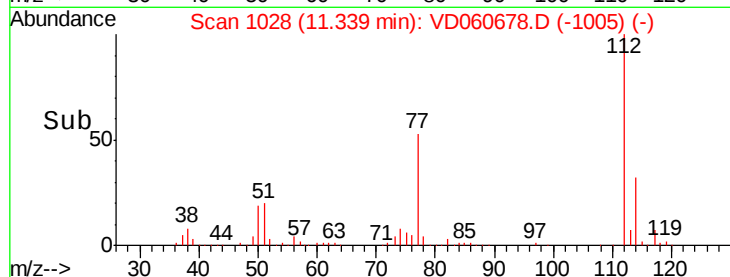
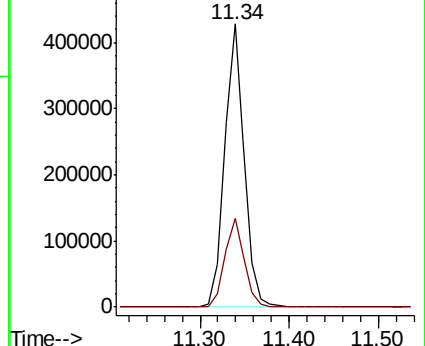
112 100

114 31.6 26.1 39.1



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 21.528 ug/l

RT: 11.44 min Scan# 1038

Delta R.T. 0.02 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

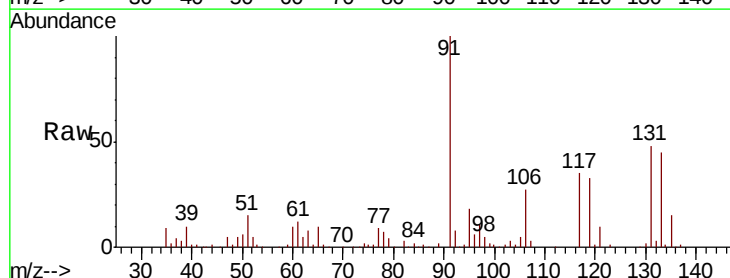
Tgt Ion:131 Resp: 222558

Ion Ratio Lower Upper

131 100

133 93.1 49.1 147.3

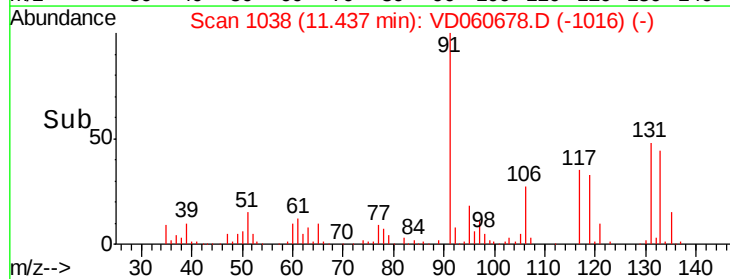
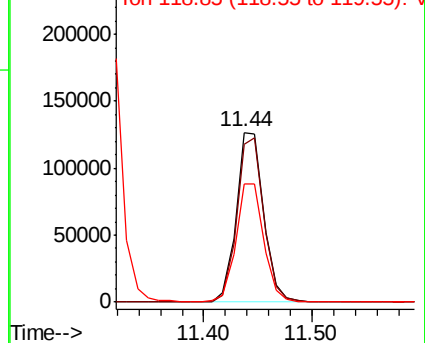
119 69.4 36.6 109.8

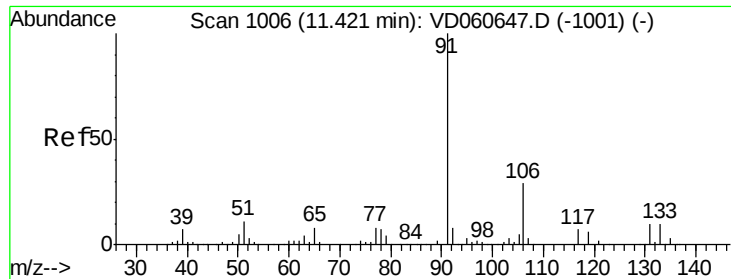


Abundance Ion 130.90 (130.60 to 131.60): V

Ion 132.90 (132.60 to 133.60): V

Ion 118.85 (118.55 to 119.55): V

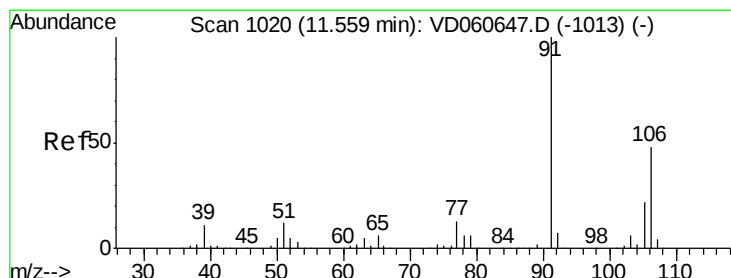
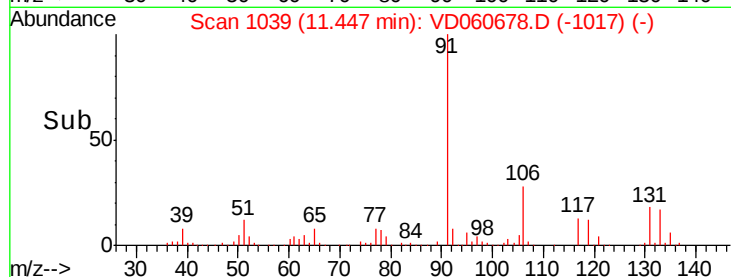
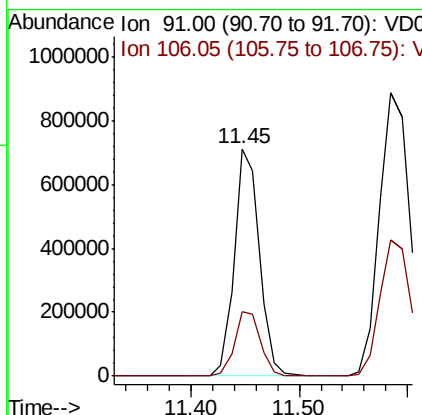
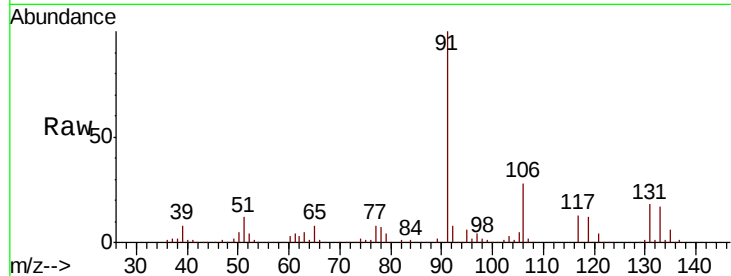




#67
Ethvl Benzene
Concen: 20.860 ug/l
RT: 11.45 min Scan# 1039
Delta R.T. 0.02 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

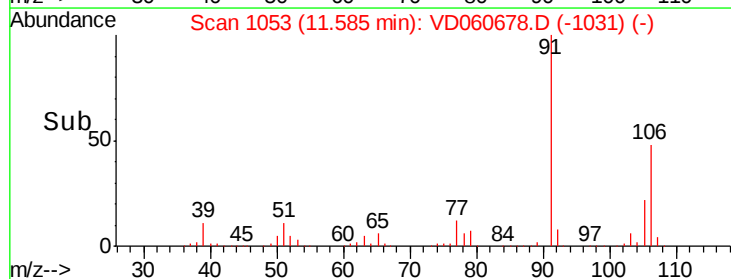
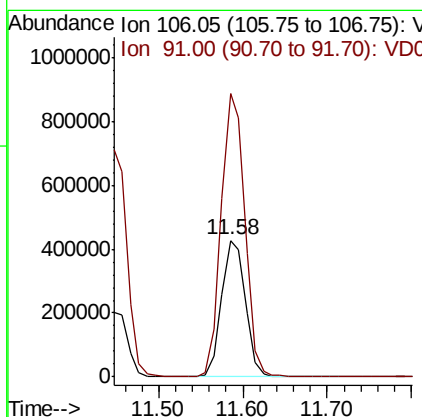
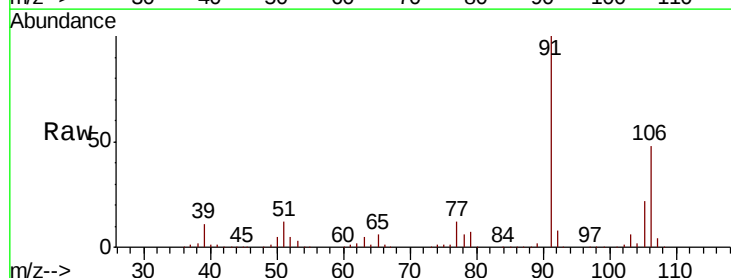
Instrument :
MSVOA_D
ClientSampleId :
VD1221SBS01

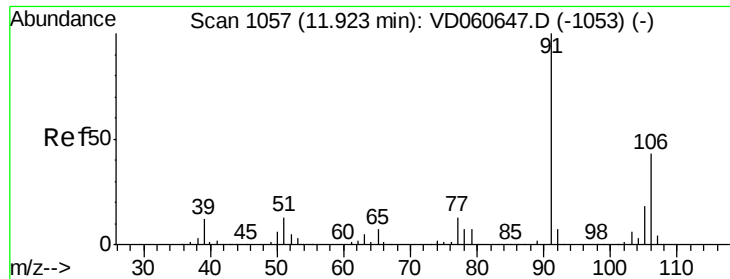
Tot Ion: 91 Resp: 1148661
Ion Ratio Lower Upper
91 100
106 28.2 24.6 36.8



#68
m/p-Xylenes
Concen: 41.479 ug/l
RT: 11.58 min Scan# 1053
Delta R.T. 0.02 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Tgt Ion:106 Resp: 834694
Ion Ratio Lower Upper
106 100
91 207.4 158.9 238.3

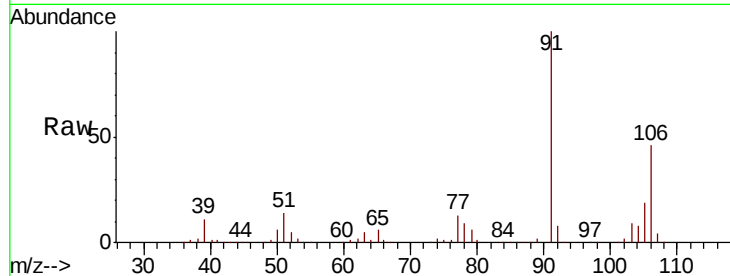




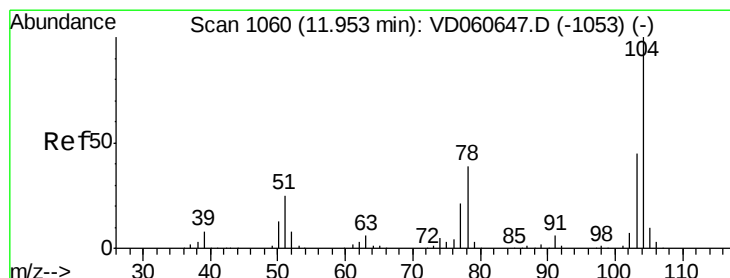
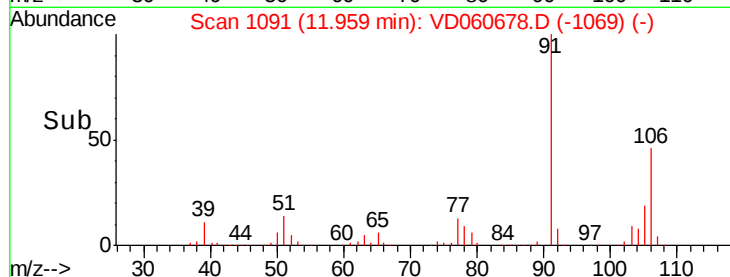
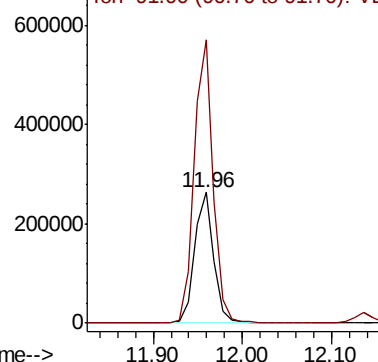
#69
o-Xylene
Concen: 20.712 ug/l
RT: 11.96 min Scan# 1091
Delta R.T. 0.02 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Instrument :
MSVOA_D
ClientSampleId :
VD1221SBS01

Tot Ion:106 Resp: 395436
Ion Ratio Lower Upper
106 100
91 216.1 101.5 304.5

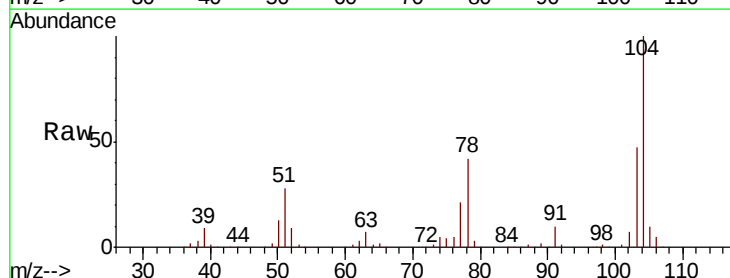


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

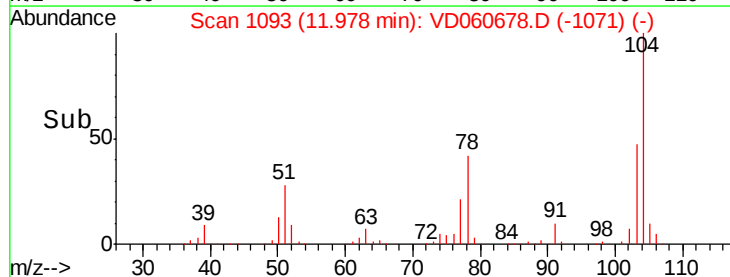
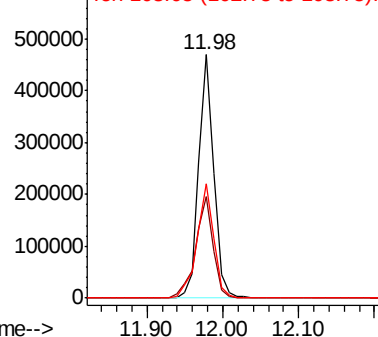


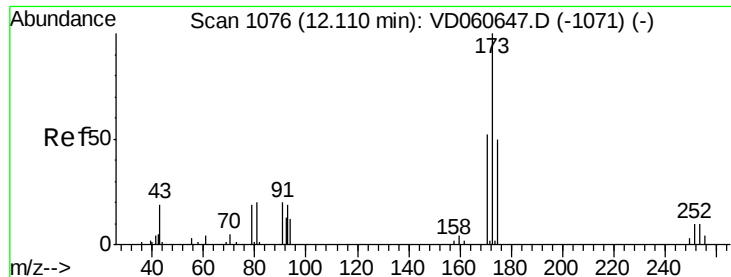
#70
Styrene
Concen: 21.088 ug/l
RT: 11.98 min Scan# 1093
Delta R.T. 0.02 min
Lab File: VD060678.D
Acq: 21 Dec 2018 12:34

Tgt Ion:104 Resp: 648438
Ion Ratio Lower Upper
104 100
78 41.9 31.4 47.2
103 47.1 37.5 56.3



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: 20.364 ug/l

RT: 12.14 min Scan# 1109

Delta R.T. 0.02 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD1221SBS01

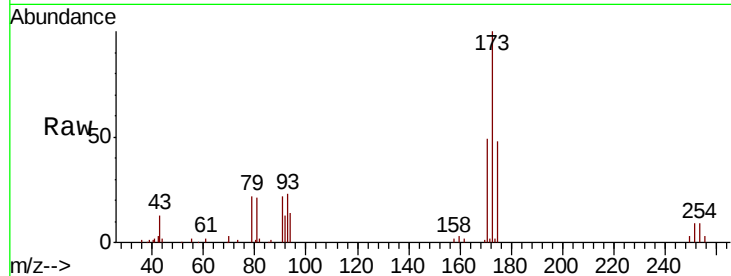
Tot Ion:173 Resp: 138964

Ion Ratio Lower Upper

173 100

175 48.2 25.5 76.5

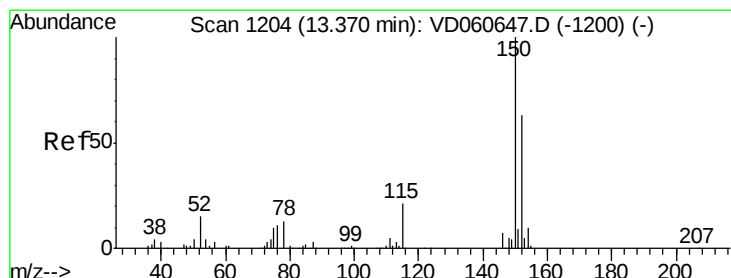
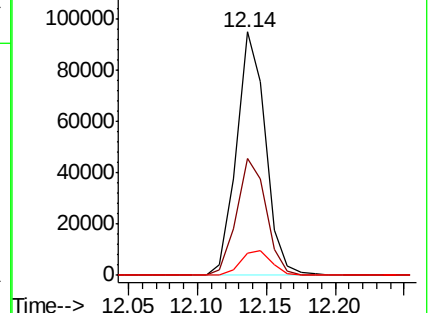
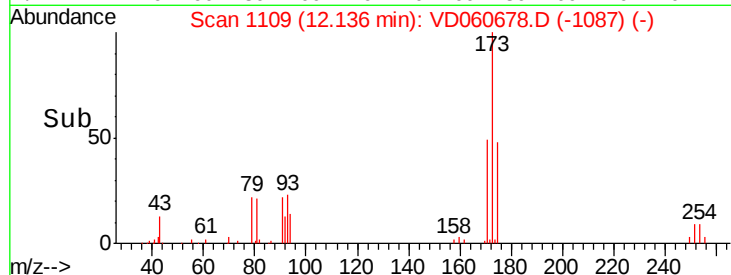
254 9.0 7.9 11.9



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: 13.40 min Scan# 1237

Delta R.T. 0.02 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

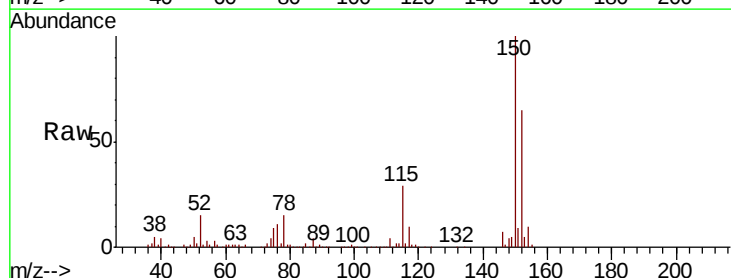
Tgt Ion:152 Resp: 760558

Ion Ratio Lower Upper

152 100

115 45.0 24.1 72.3

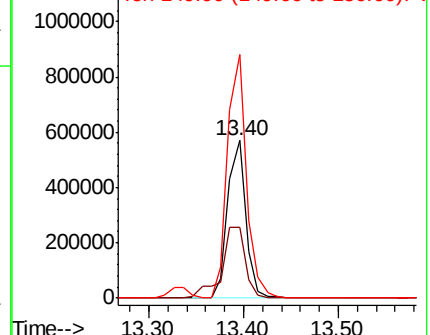
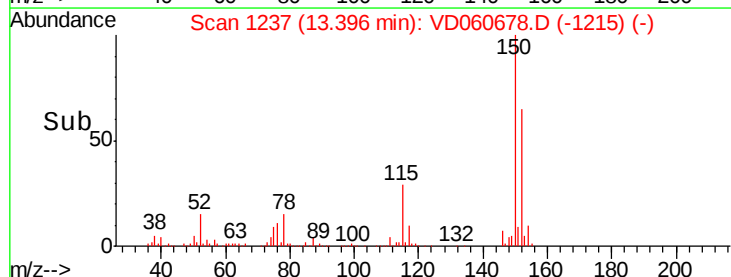
150 154.3 0.0 315.0

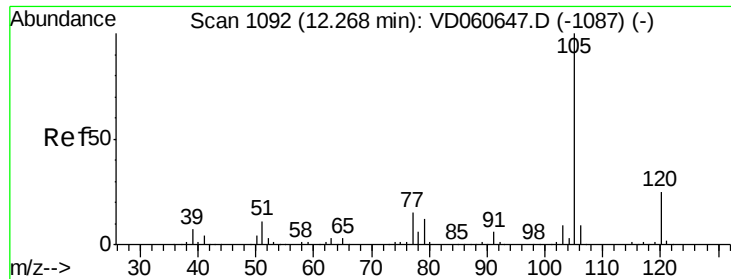


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.430 ug/l

RT: 12.29 min Scan# 1125

Delta R.T. 0.02 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

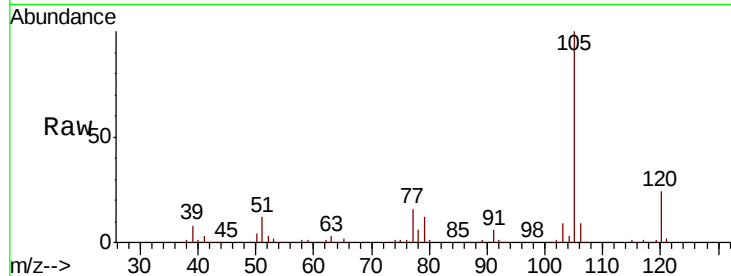
VD1221SBS01

Tot Ion:105 Resp: 1106302

Ion Ratio Lower Upper

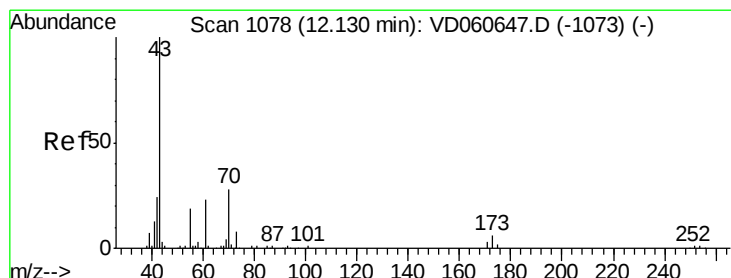
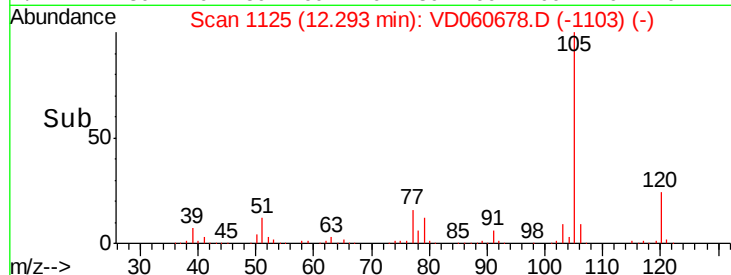
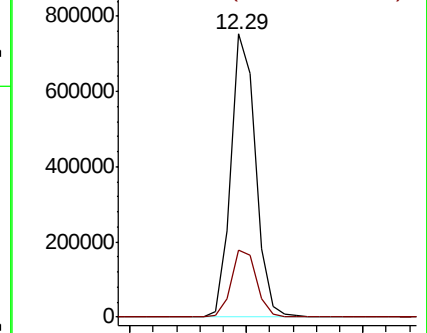
105 100

120 23.9 12.2 36.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 20.357 ug/l

RT: 12.16 min Scan# 1111

Delta R.T. 0.02 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Tgt Ion: 43 Resp: 260166

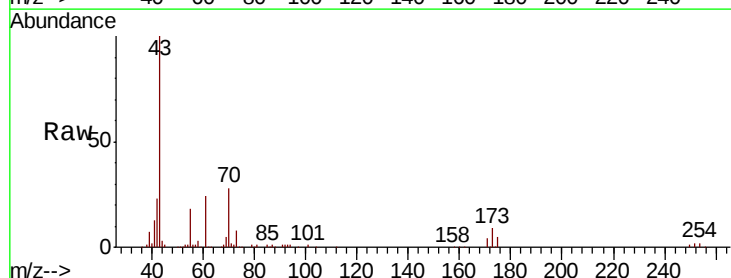
Ion Ratio Lower Upper

43 100

70 28.2 22.2 33.2

55 18.0 13.8 20.8

61 23.8 18.2 27.2

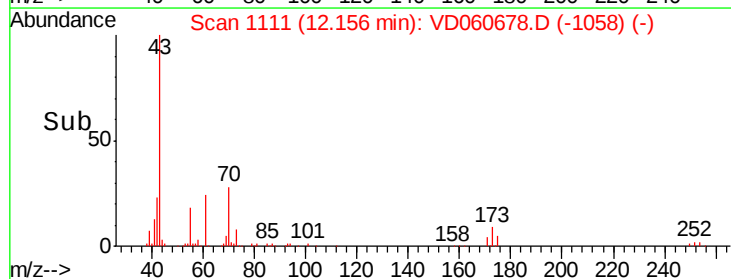
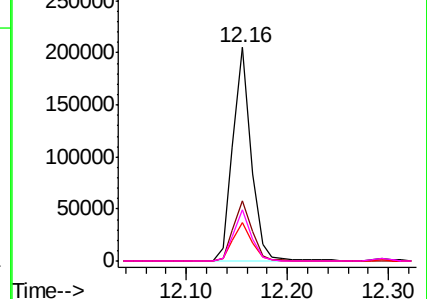


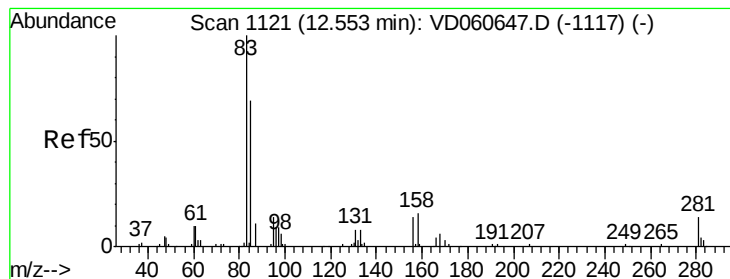
Abundance Ion 42.95 (42.65 to 43.65): VDC

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: 21.082 ug/l

RT: 12.58 min Scan# 1154

Delta R.T. 0.02 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD1221SBS01

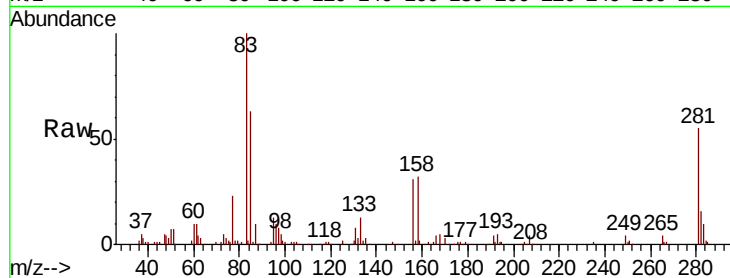
Tot Ion: 83 Resp: 185040

Ion Ratio Lower Upper

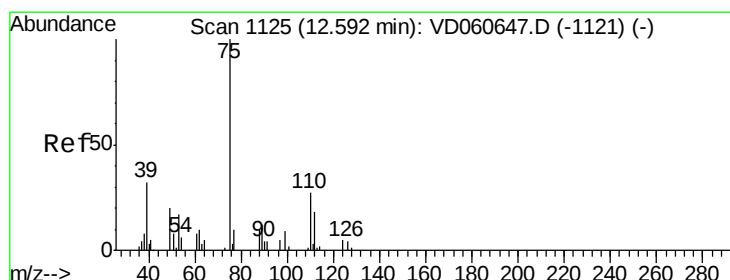
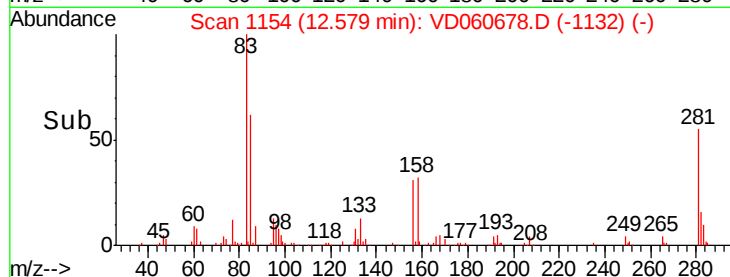
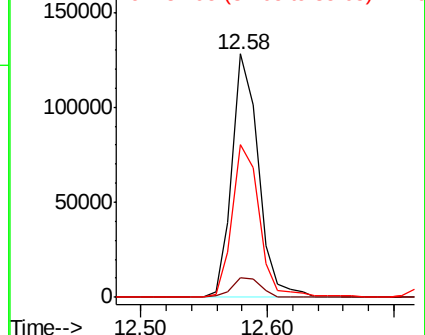
83 100

131 8.0 4.2 12.4

85 62.6 32.6 97.7



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: 21.113 ug/l

RT: 12.62 min Scan# 1158

Delta R.T. 0.02 min

Lab File: VD060678.D

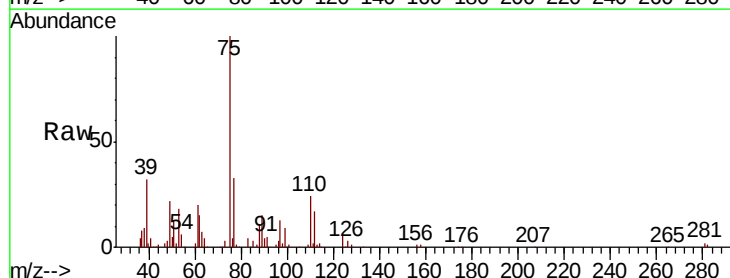
Acq: 21 Dec 2018 12:34

Tgt Ion: 75 Resp: 182815

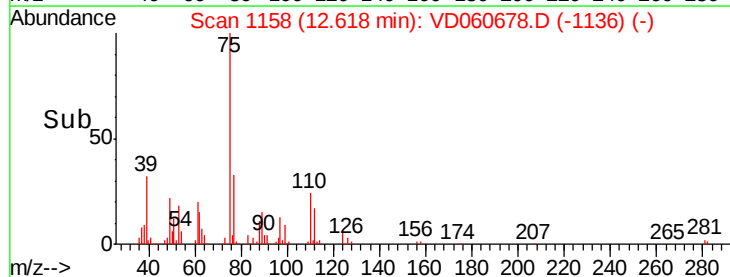
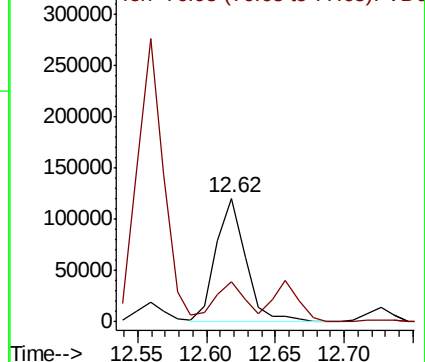
Ion Ratio Lower Upper

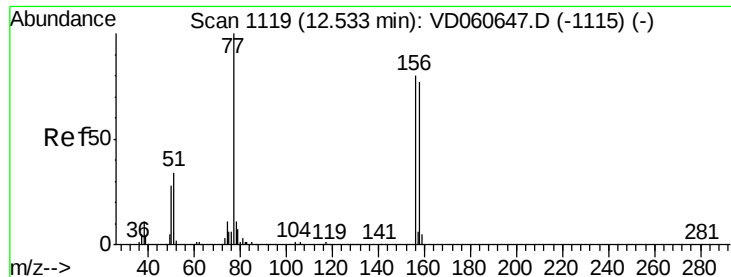
75 100

77 32.9 16.7 50.0



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





#77

Bromobenzene

Concen: 21.106 ug/l

RT: 12.56 min Scan# 1152

Delta R.T. 0.02 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD1221SBS01

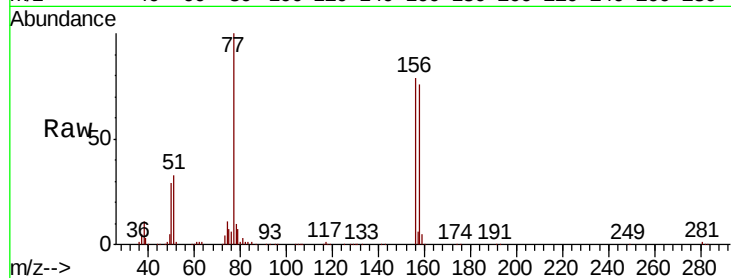
Tot Ion:156 Resp: 301747

Ion Ratio Lower Upper

156 100

77 127.0 61.3 183.9

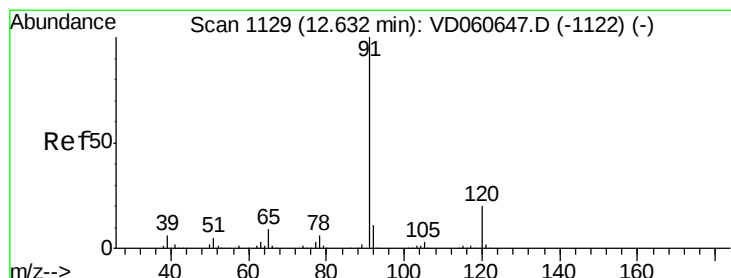
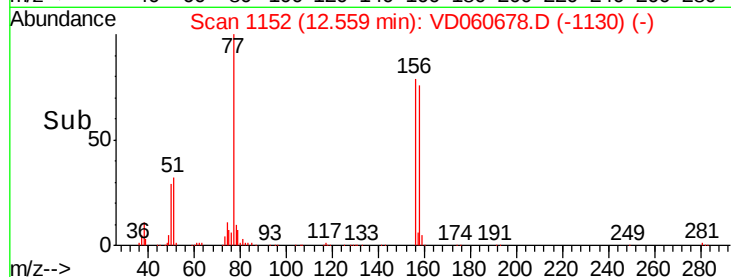
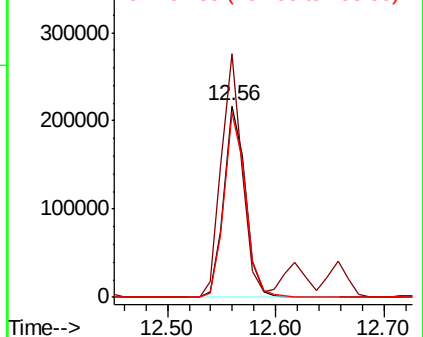
158 96.6 48.9 146.6



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: 21.214 ug/l

RT: 12.66 min Scan# 1162

Delta R.T. 0.02 min

Lab File: VD060678.D

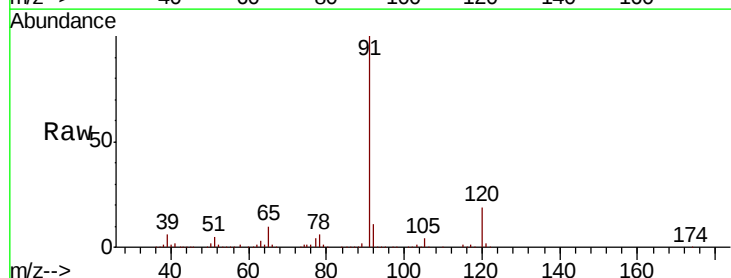
Acq: 21 Dec 2018 12:34

Tgt Ion: 91 Resp: 1468589

Ion Ratio Lower Upper

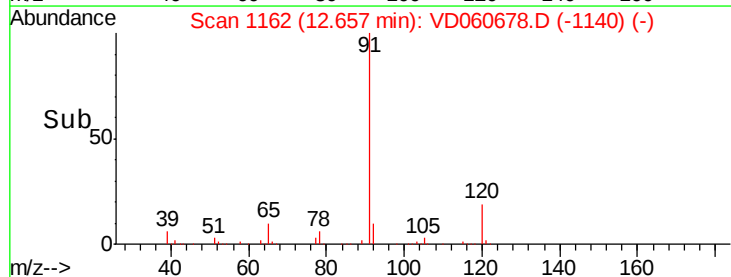
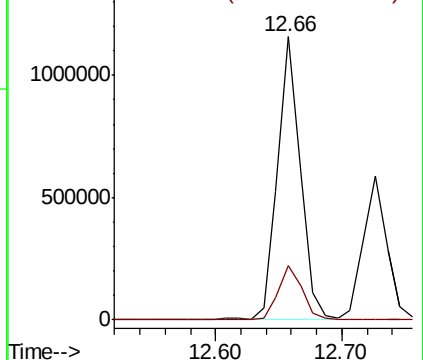
91 100

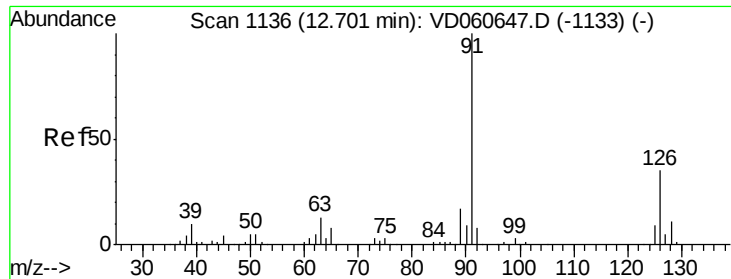
120 19.3 10.4 31.2



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 20.250 ug/l

RT: 12.73 min Scan# 1169

Delta R.T. 0.02 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

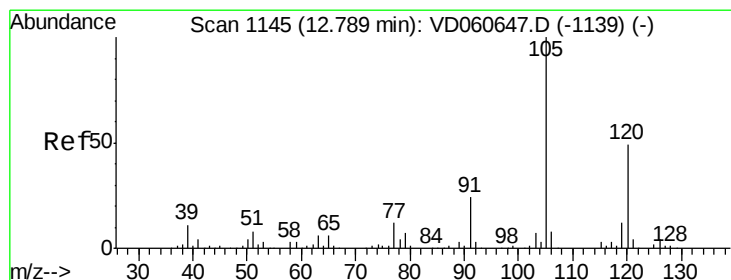
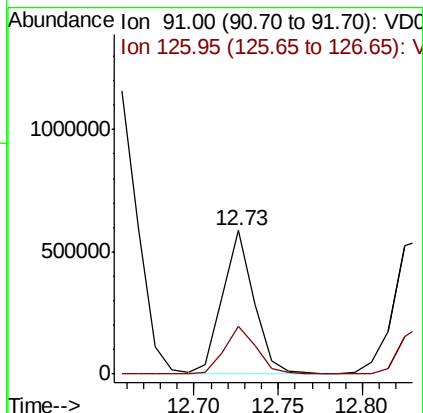
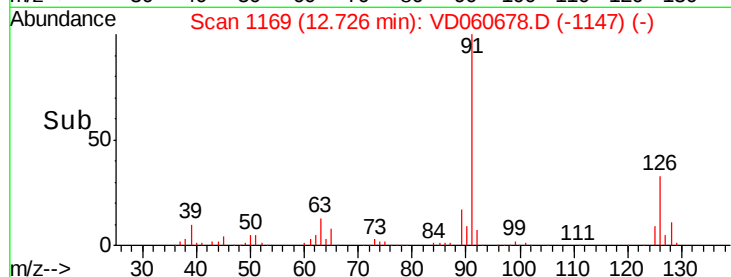
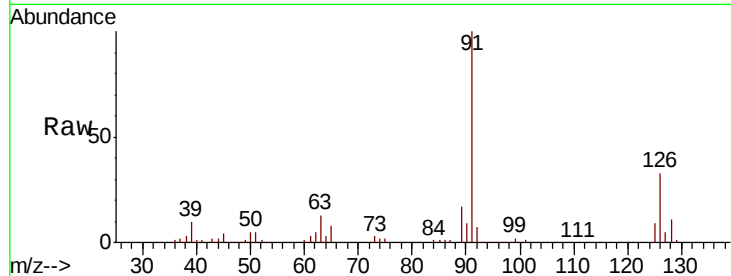
VD1221SBS01

Tot Ion: 91 Resp: 750850

Ion Ratio Lower Upper

91 100

126 33.4 17.2 51.5



#80

1,3,5-Trimethylbenzene

Concen: 21.109 ug/l

RT: 12.81 min Scan# 1178

Delta R.T. 0.02 min

Lab File: VD060678.D

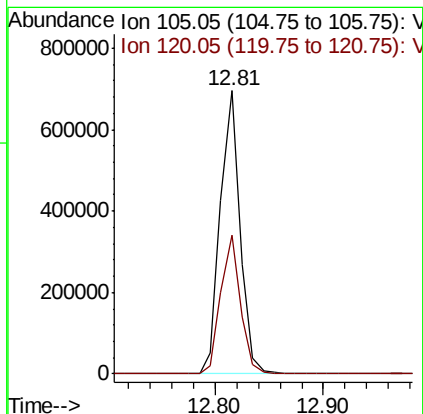
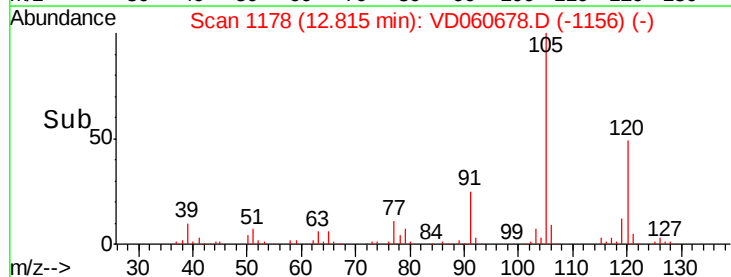
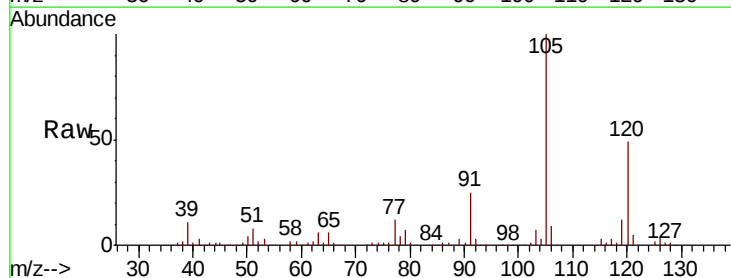
Acq: 21 Dec 2018 12:34

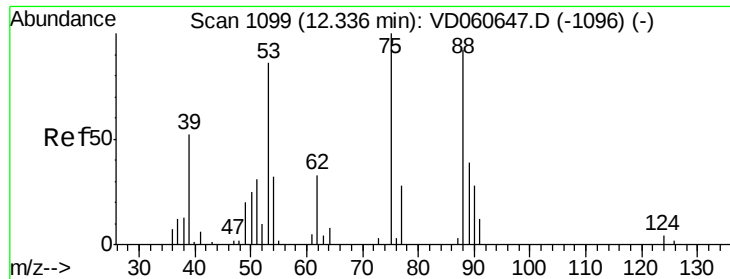
Tgt Ion: 105 Resp: 882675

Ion Ratio Lower Upper

105 100

120 49.1 24.8 74.4





#81

trans-1,4-Dichloro-2-butene

Concen: 19.584 ug/l

RT: 12.36 min Scan# 1132

Delta R.T. 0.02 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD1221SBS01

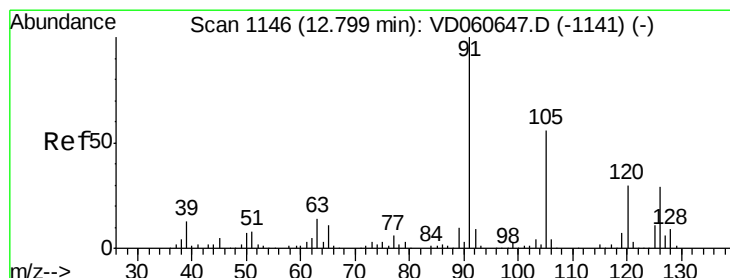
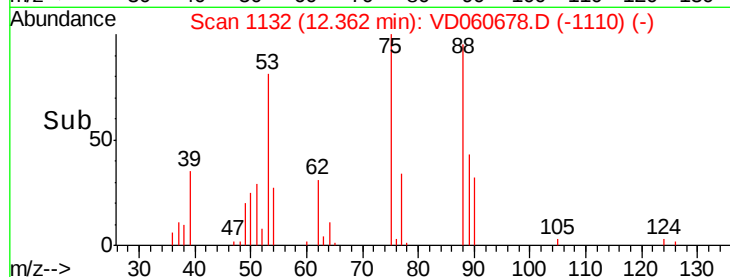
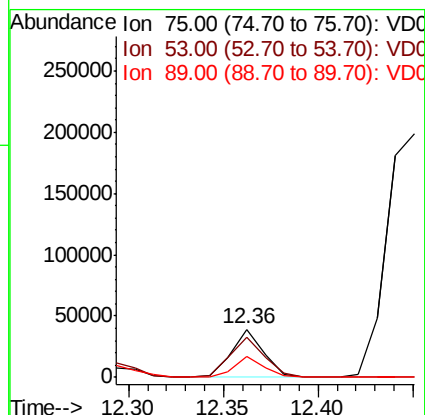
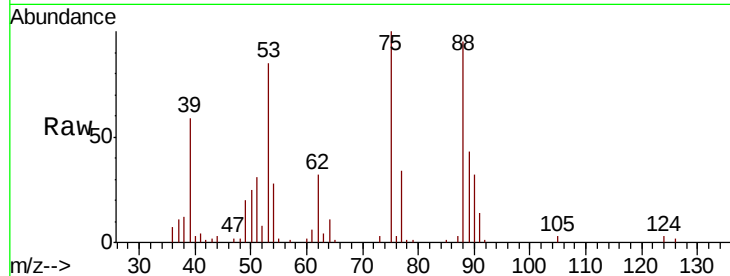
Tot Ion: 75 Resp: 46857

Ion Ratio Lower Upper

75 100

53 84.5 72.1 108.1

89 42.8 35.1 52.7



#82

4-Chlorotoluene

Concen: 20.954 ug/l

RT: 12.83 min Scan# 1180

Delta R.T. 0.03 min

Lab File: VD060678.D

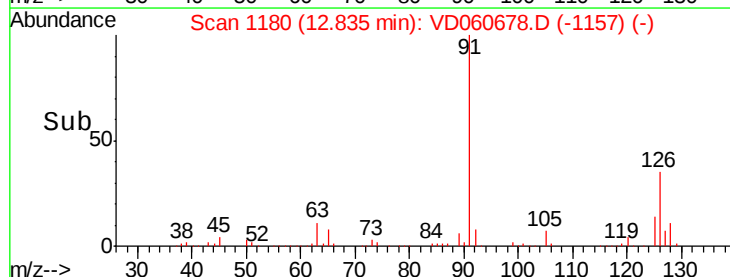
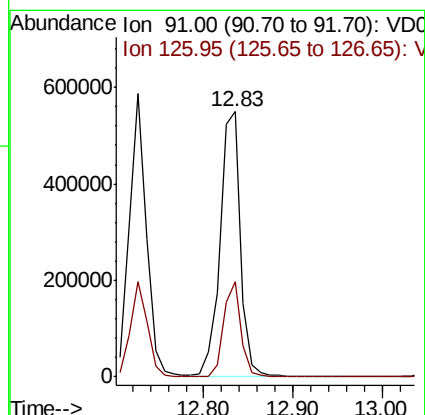
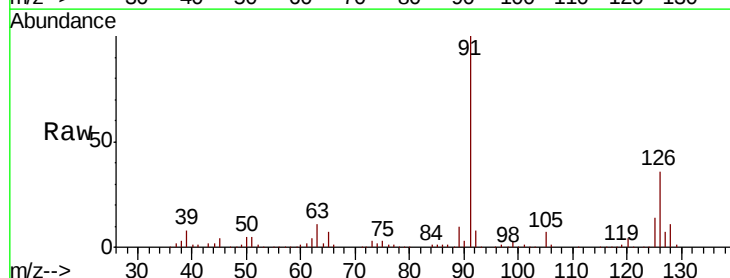
Acq: 21 Dec 2018 12:34

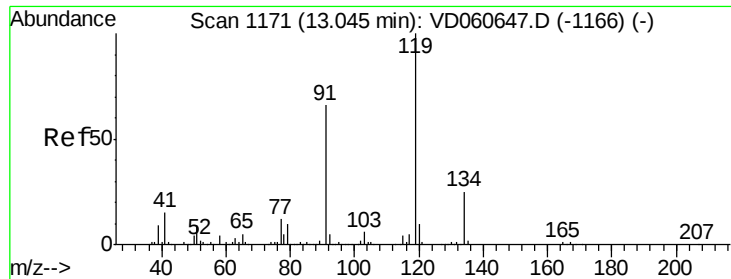
Tgt Ion: 91 Resp: 880627

Ion Ratio Lower Upper

91 100

126 35.9 14.6 43.8

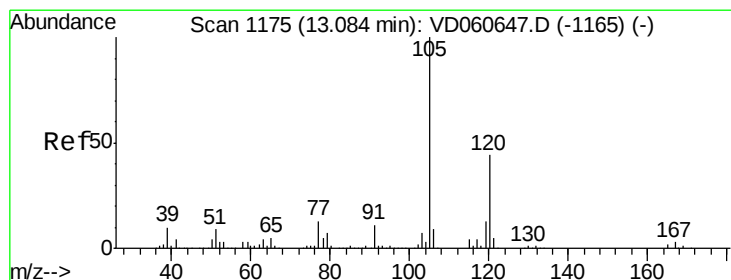
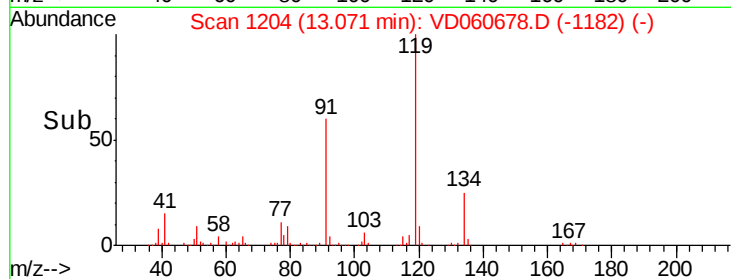
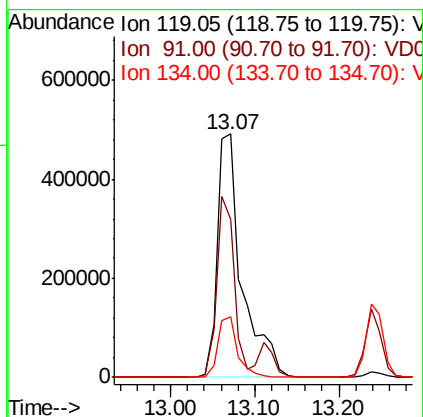
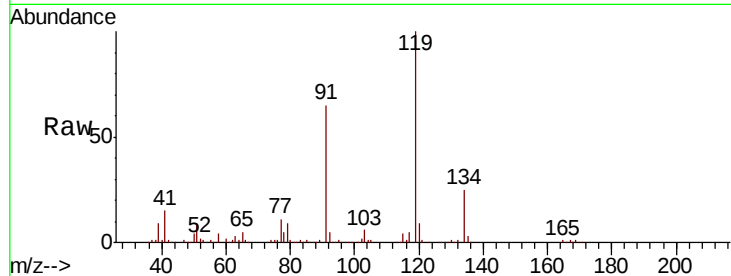




#83
 tert-Butylbenzene
 Concen: 20.982 ug/l
 RT: 13.07 min Scan# 1204
 Delta R.T. 0.02 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

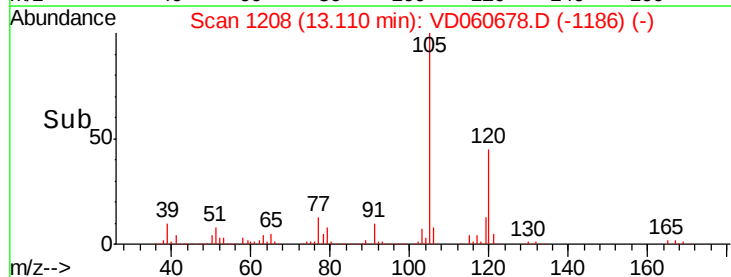
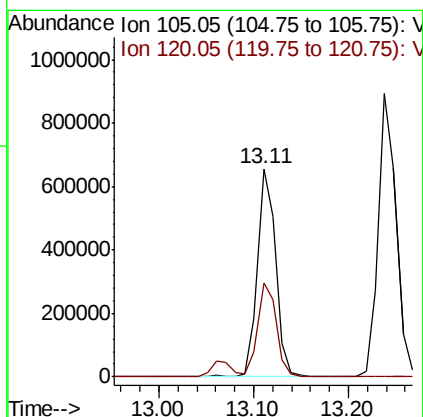
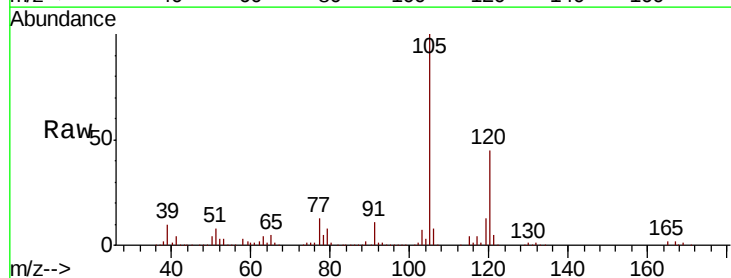
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1221SBS01

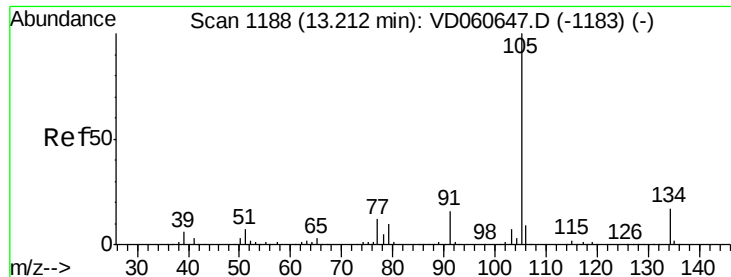
Tot Ion:119 Resp: 998495
 Ion Ratio Lower Upper
 119 100
 91 64.8 32.5 97.4
 134 24.9 11.9 35.9



#84
 1,2,4-Trimethylbenzene
 Concen: 20.614 ug/l
 RT: 13.11 min Scan# 1208
 Delta R.T. 0.02 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

Tgt Ion:105 Resp: 887777
 Ion Ratio Lower Upper
 105 100
 120 45.2 22.4 67.0





#85

sec-Butylbenzene

Concen: 20.411 ug/l

RT: 13.24 min Scan# 1221

Delta R.T. 0.02 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

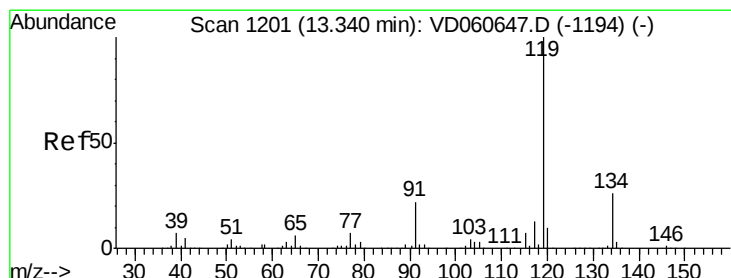
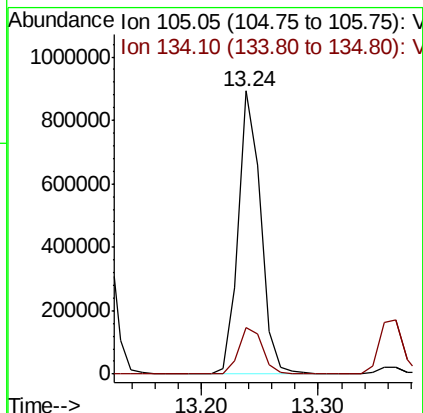
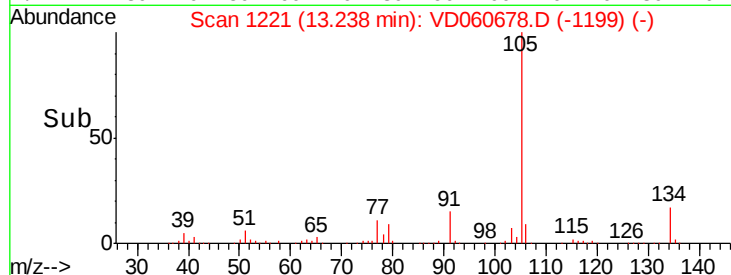
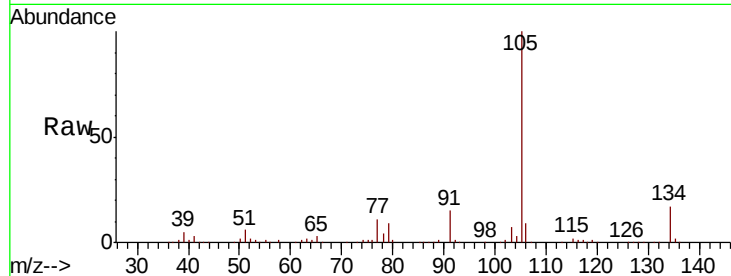
VD1221SBS01

Tot Ion:105 Resp: 1184564

Ion Ratio Lower Upper

105 100

134 16.6 8.2 24.4



#86

p-Isopropyltoluene

Concen: 20.906 ug/l

RT: 13.36 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

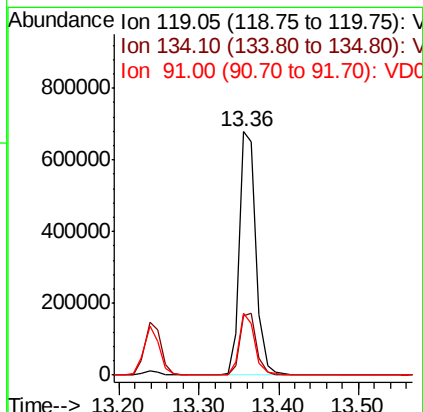
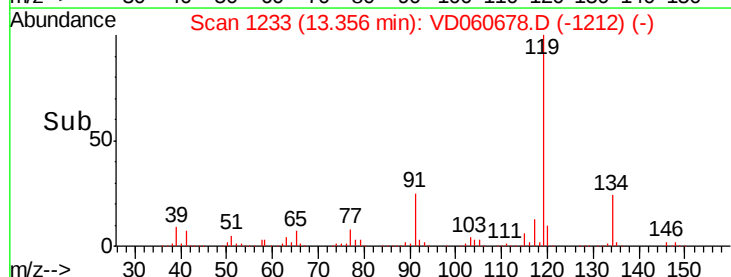
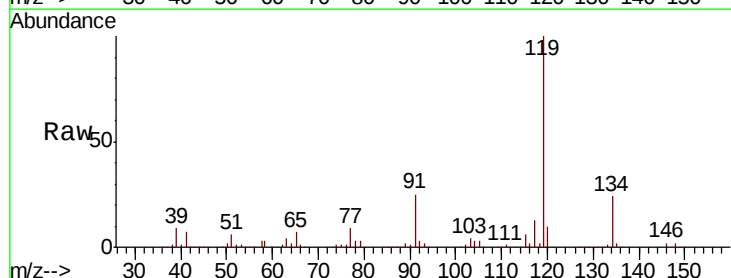
Tgt Ion:119 Resp: 979387

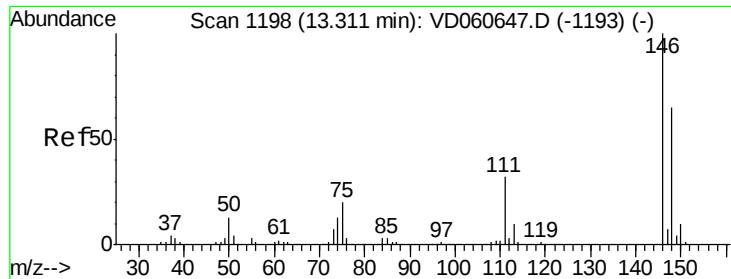
Ion Ratio Lower Upper

119 100

134 24.2 12.5 37.5

91 25.2 11.4 34.2

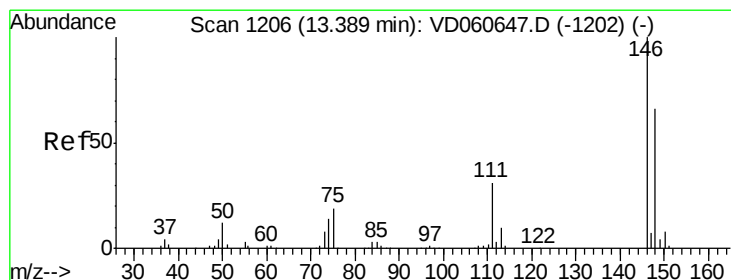
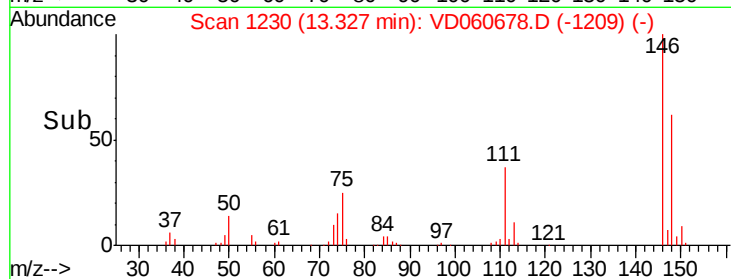
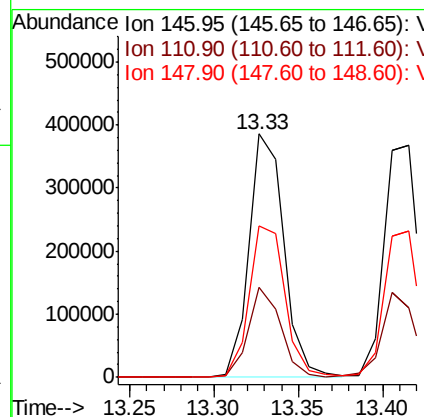
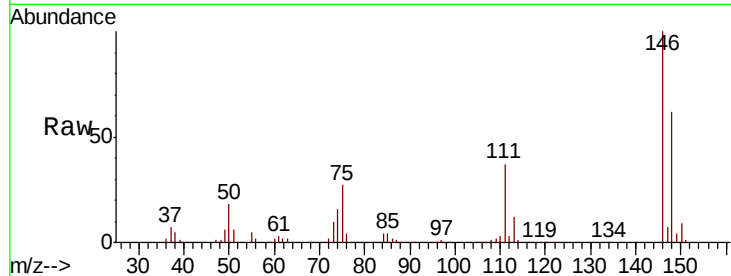




#87
 1,3-Dichlorobenzene
 Concen: 21.108 ug/l
 RT: 13.33 min Scan# 1230
 Delta R.T. 0.01 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

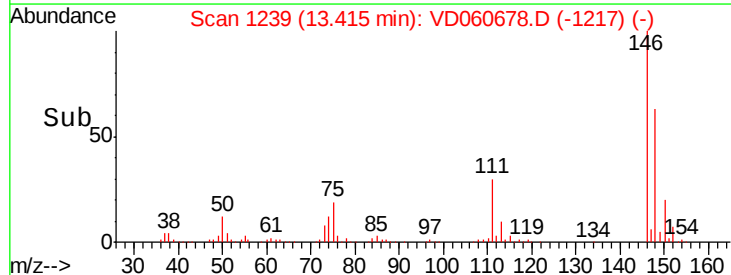
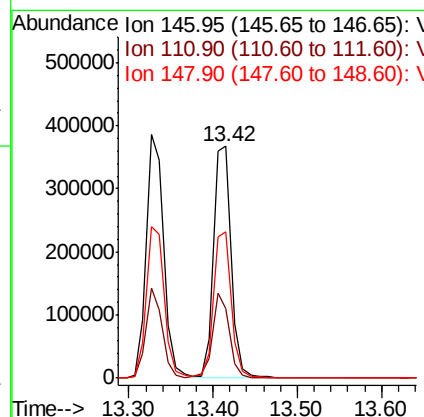
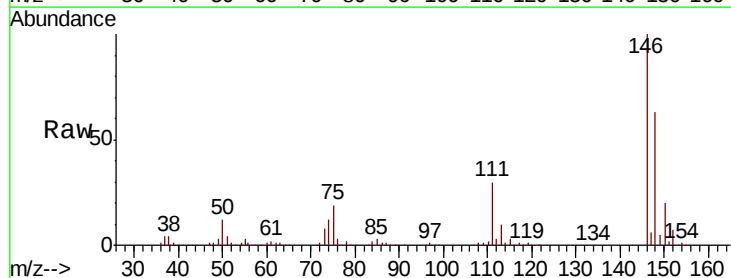
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1221SBS01

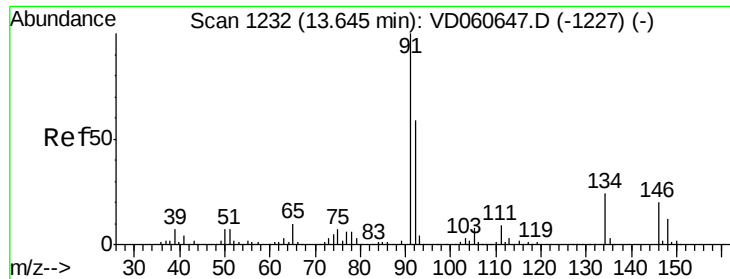
Tot Ion:146 Resp: 553980
 Ion Ratio Lower Upper
 146 100
 111 36.8 16.6 49.8
 148 62.2 32.6 97.8



#88
 1,4-Dichlorobenzene
 Concen: 20.628 ug/l
 RT: 13.42 min Scan# 1239
 Delta R.T. 0.02 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

Tgt Ion:146 Resp: 533467
 Ion Ratio Lower Upper
 146 100
 111 29.9 16.2 48.5
 148 63.4 32.7 98.1





#89

n-Butylbenzene

Concen: 21.536 ug/l

RT: 13.66 min Scan# 1264

Delta R.T. 0.01 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD1221SBS01

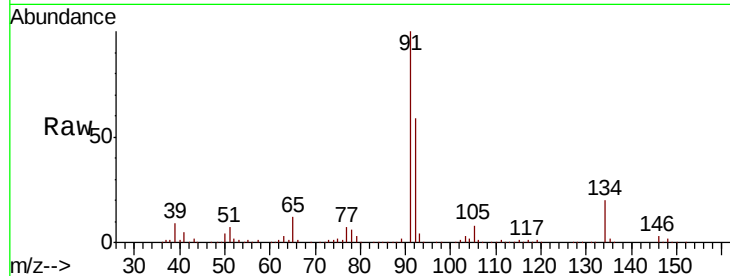
Tot Ion: 91 Resp: 1030961

Ion Ratio Lower Upper

91 100

92 59.2 29.7 89.1

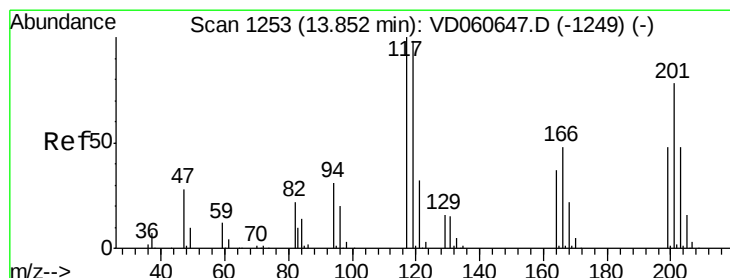
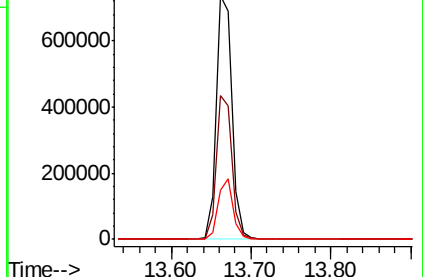
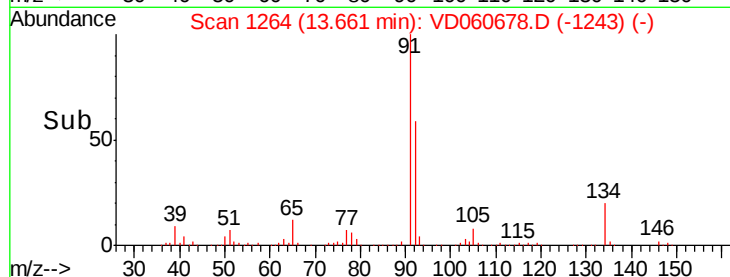
134 19.9 12.7 38.1



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: 20.454 ug/l

RT: 13.88 min Scan# 1286

Delta R.T. 0.02 min

Lab File: VD060678.D

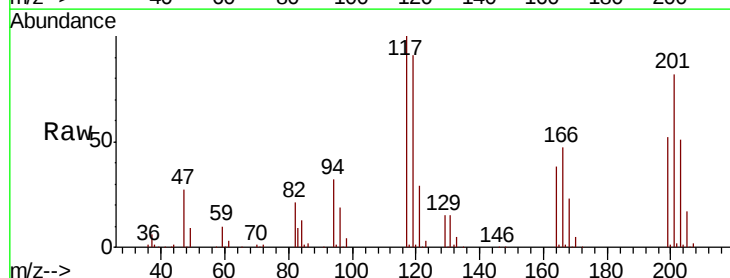
Acq: 21 Dec 2018 12:34

Tgt Ion: 117 Resp: 235401

Ion Ratio Lower Upper

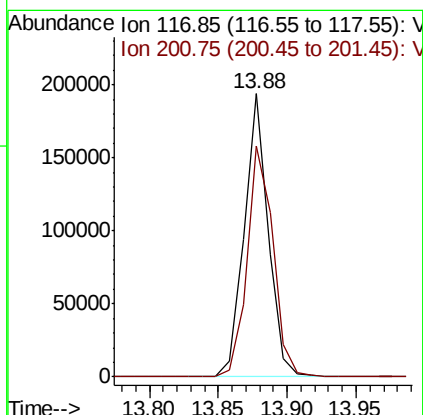
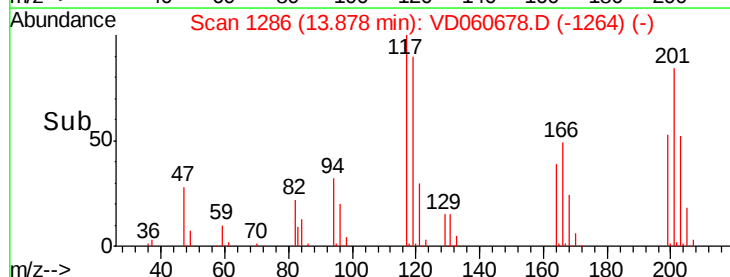
117 100

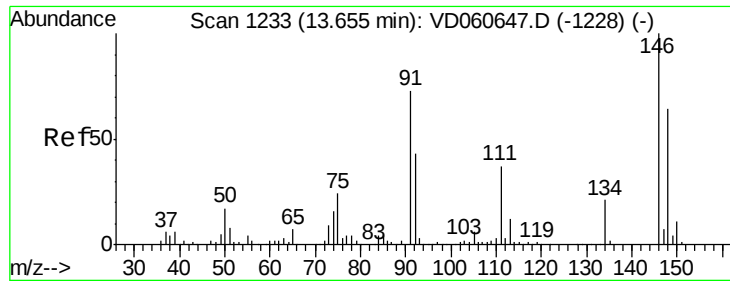
201 81.8 42.6 127.8



Abundance Ion 116.85 (116.55 to 117.55): VDC

Ion 200.75 (200.45 to 201.45): VDC

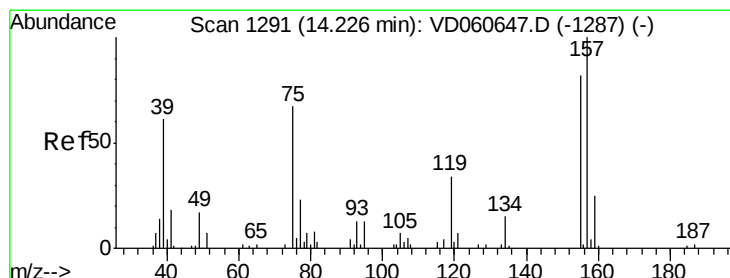
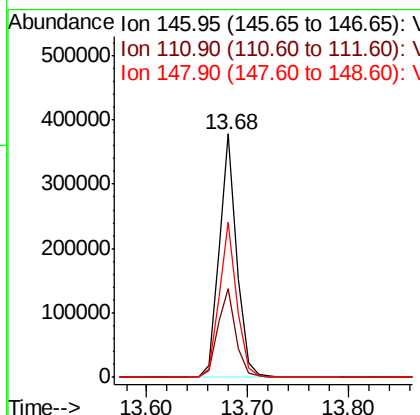
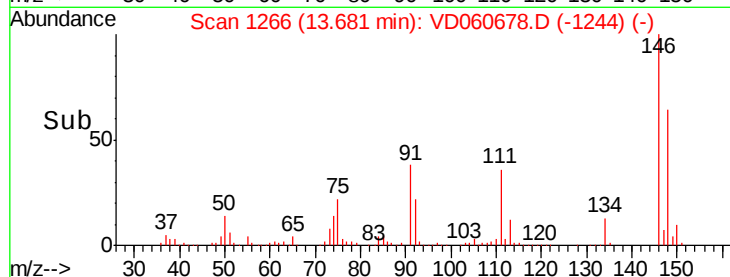
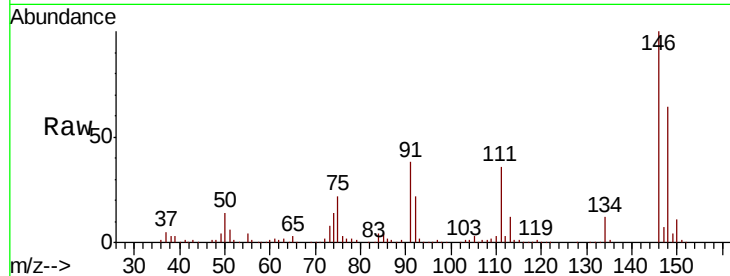




#91
 1,2-Dichlorobenzene
 Concen: 22.087 ug/l
 RT: 13.68 min Scan# 1266
 Delta R.T. 0.02 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

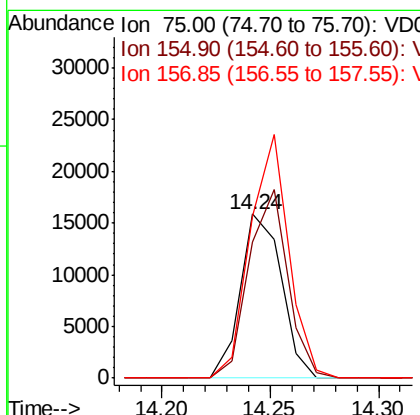
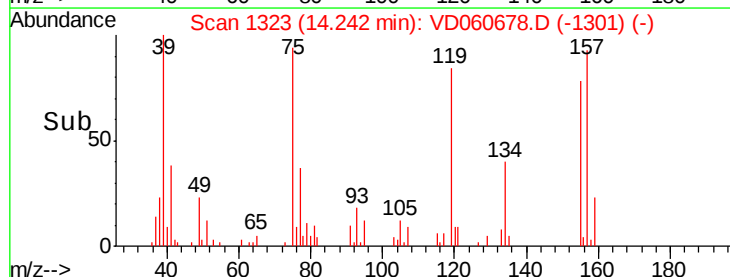
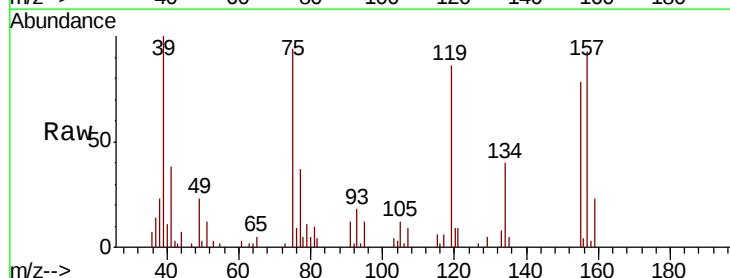
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1221SBS01

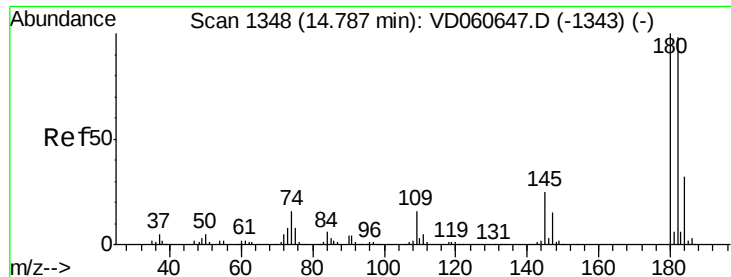
Tot Ion:146 Resp: 464981
 Ion Ratio Lower Upper
 146 100
 111 36.2 19.3 57.9
 148 64.0 31.9 95.9



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.150 ug/l
 RT: 14.24 min Scan# 1323
 Delta R.T. 0.02 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

Tgt Ion: 75 Resp: 20778
 Ion Ratio Lower Upper
 75 100
 155 83.0 41.1 123.4
 157 98.5 52.5 157.6

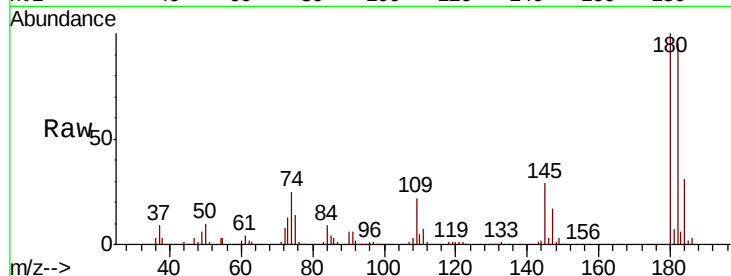




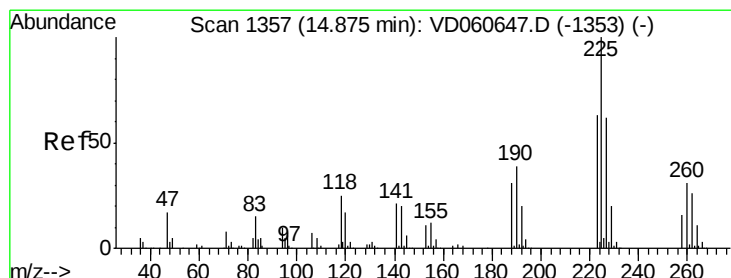
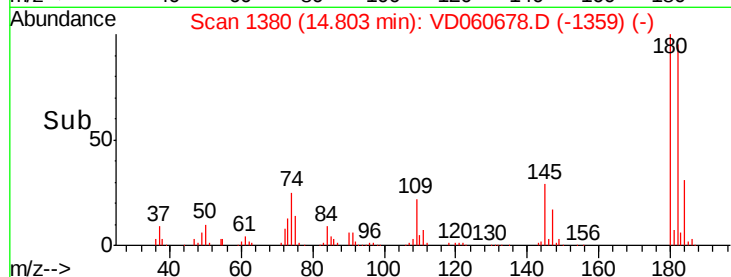
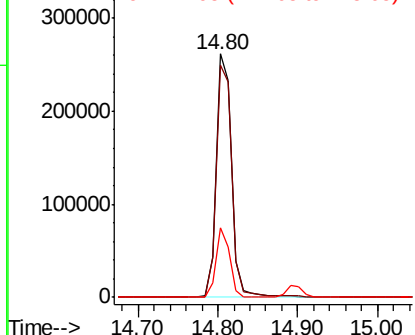
#93
 1,2,4-Trichlorobenzene
 Concen: 21.270 ug/l
 RT: 14.80 min Scan# 1380
 Delta R.T. 0.01 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1221SBS01

Tot Ion:180 Resp: 356317
 Ion Ratio Lower Upper
 180 100
 182 95.3 48.8 146.4
 145 28.6 11.8 35.3

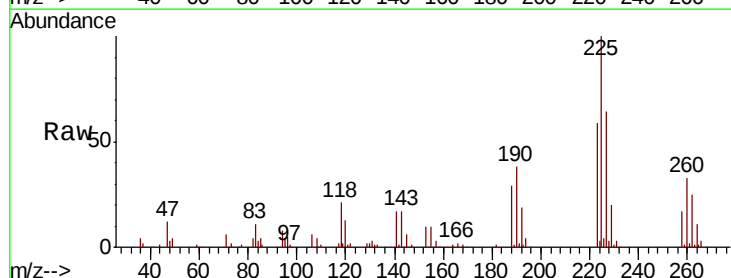


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

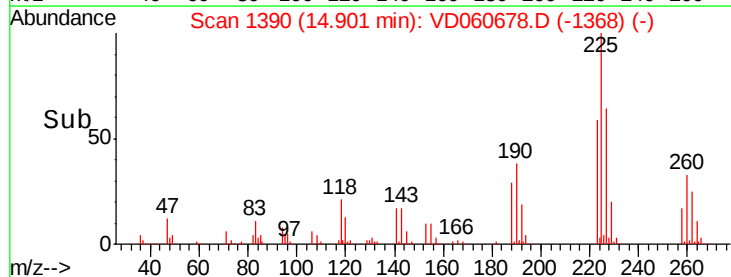
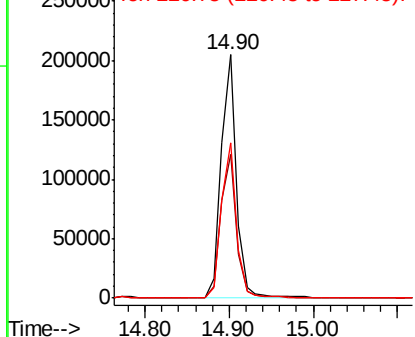


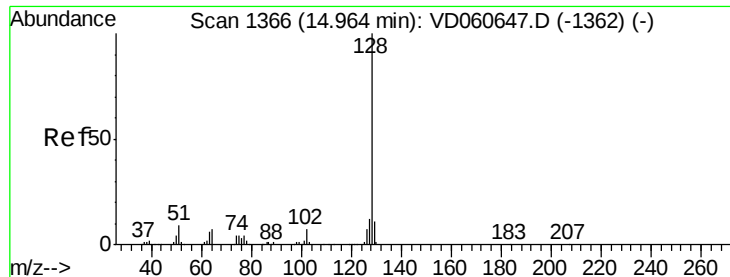
#94
 Hexachlorobutadiene
 Concen: 20.825 ug/l
 RT: 14.90 min Scan# 1390
 Delta R.T. 0.02 min
 Lab File: VD060678.D
 Acq: 21 Dec 2018 12:34

Tgt Ion:225 Resp: 257865
 Ion Ratio Lower Upper
 225 100
 223 59.0 31.3 93.8
 227 63.7 32.5 97.4



Abundance Ion 224.75 (224.45 to 225.45): V
 Ion 222.75 (222.45 to 223.45): V
 Ion 226.75 (226.45 to 227.45): V





#95

Naphthalene

Concen: 20.772 ug/l

RT: 14.99 min Scan# 1399

Delta R.T. 0.02 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD1221SBS01

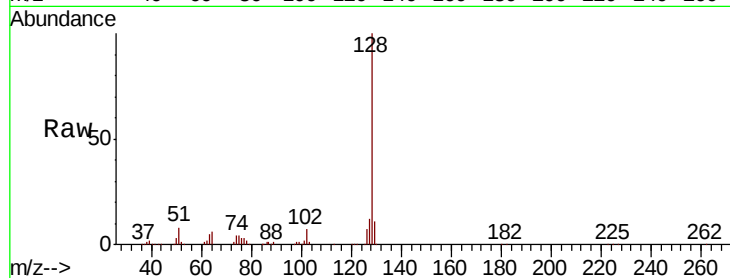
Tot Ion:128 Resp: 413568

Ion Ratio Lower Upper

128 100

127 11.8 10.1 15.1

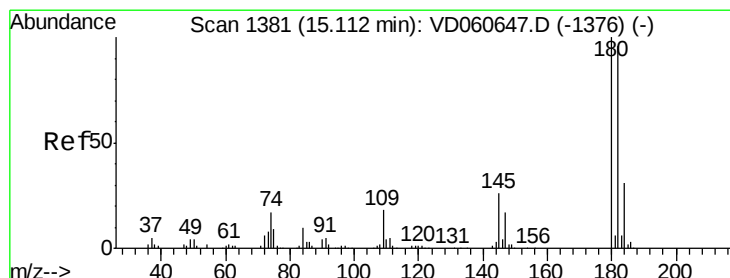
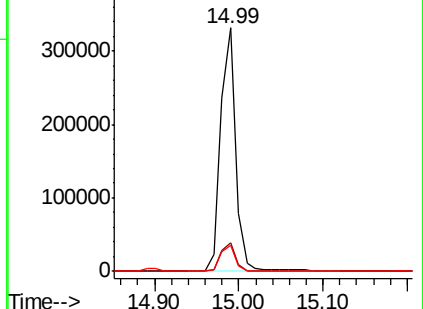
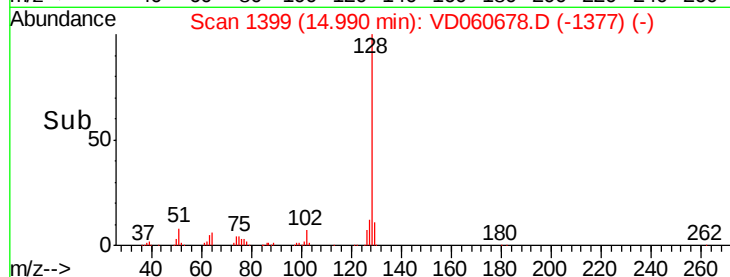
129 10.6 8.6 13.0



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: 20.573 ug/l

RT: 15.14 min Scan# 1414

Delta R.T. 0.02 min

Lab File: VD060678.D

Acq: 21 Dec 2018 12:34

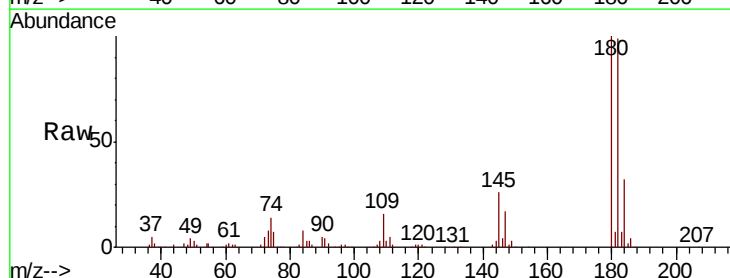
Tgt Ion:180 Resp: 269412

Ion Ratio Lower Upper

180 100

182 99.3 48.6 145.9

145 25.7 12.6 37.8



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

