

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062418\
 Data File : VD058382.D
 Acq On : 24 Jun 2018 20:07
 Operator : VA/AP
 Sample : VD0624SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 25 04:05:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:52:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	859558	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.70	114	1104185	50.00	ug/l	0.01
63) Chlorobenzene-d5	10.70	117	892270	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.91	152	455047	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.02	65	455423	52.46	ug/l	0.01
Spiked Amount	50.000		Recovery	=	104.92%	
35) Dibromofluoromethane	5.56	113	470591	52.36	ug/l	0.01
Spiked Amount	50.000		Recovery	=	104.72%	
50) Toluene-d8	8.72	98	1122267	51.62	ug/l	0.01
Spiked Amount	50.000		Recovery	=	103.24%	
62) 4-Bromofluorobenzene	11.94	95	456093	51.35	ug/l	0.01
Spiked Amount	50.000		Recovery	=	102.70%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.34	85	195305	21.964	ug/l	97
3) Chloromethane	1.47	50	95854	23.220	ug/l	94
4) Vinyl Chloride	1.55	62	99794	22.162	ug/l	93
5) Bromomethane	1.79	94	32549	19.104	ug/l	98
6) Chloroethane	1.88	64	33832	19.266	ug/l	91
7) Trichlorofluoromethane	2.08	101	134953	21.858	ug/l	98
8) Diethyl Ether	2.34	74	28029	21.464	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	2.55	101	87405	22.269	ug/l	93
10) Methyl Iodide	2.68	142	76041	17.032	ug/l #	92
11) Tert butyl alcohol	3.27	59	26618	92.955	ug/l #	91
12) 1,1-Dichloroethene	2.54	96	63427	21.478	ug/l	93
13) Acrolein	2.47	56	13591	83.142	ug/l	87
14) Allyl chloride	2.92	41	148432	21.596	ug/l	96
15) Acrylonitrile	3.35	53	88401	116.428	ug/l	85
16) Acetone	2.62	43	115509	97.283	ug/l	95
17) Carbon Disulfide	2.75	76	203163	20.221	ug/l #	93
18) Methyl Acetate	2.94	43	55496	21.916	ug/l #	89
19) Methyl tert-butyl Ether	3.41	73	249372	31.838	ug/l	98
20) Methylene Chloride	3.07	84	73575	20.969	ug/l	94
21) trans-1,2-Dichloroethene	3.38	96	87893	27.233	ug/l	99
22) Diisopropyl ether	4.07	45	535371	19.612	ug/l #	96
23) Vinyl Acetate	4.02	43	1437181	98.213	ug/l	99
24) 1,1-Dichloroethane	3.97	63	311922	21.210	ug/l	98
25) 2-Butanone	4.84	43	257917	99.664	ug/l	98
26) 2,2-Dichloropropane	4.80	77	249616	20.270	ug/l	97
27) cis-1,2-Dichloroethene	4.81	96	191969	23.802	ug/l	94
28) Bromochloromethane	5.15	49	133974	20.322	ug/l #	94
29) Tetrahydrofuran	5.20	42	136372	99.002	ug/l	99
30) Chloroform	5.33	83	327677	21.105	ug/l	97
31) Cyclohexane	5.60	56	250006	20.310	ug/l	98
32) 1,1,1-Trichloroethane	5.51	97	279422	21.782	ug/l	99
36) 1,1-Dichloropropene	5.75	75	233763	21.400	ug/l	96
37) Ethyl Acetate	4.93	43	121699	19.554	ug/l #	94
38) Carbon Tetrachloride	5.73	117	245625	22.631	ug/l	94

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 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:52:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.29	83	228200	21.448	ug/l	96
40) Benzene	6.02	78	530331	20.381	ug/l	97
41) Methacrylonitrile	5.14	41	59108	19.668	ug/l	94
42) 1,2-Dichloroethane	6.13	62	222902	21.245	ug/l	98
43) Isopropyl Acetate	7.63	43	171881	20.715	ug/l #	99
44) Trichloroethene	6.99	130	184335	23.592	ug/l	97
45) 1,2-Dichloropropane	7.36	63	147310	21.021	ug/l	99
46) Dibromomethane	7.47	93	104247	21.792	ug/l	98
47) Bromodichloromethane	7.75	83	223205	20.461	ug/l	98
48) Methyl methacrylate	7.51	41	100703	19.969	ug/l	97
49) 1,4-Dioxane	7.50	88	20474	449.766	ug/l #	83
51) 4-Methyl-2-Pentanone	8.60	43	563891	104.189	ug/l	100
52) Toluene	8.81	92	323437	21.830	ug/l	97
53) t-1,3-Dichloropropene	9.19	75	188763	19.902	ug/l	98
54) cis-1,3-Dichloropropene	8.36	75	224055	20.150	ug/l	96
55) 1,1,2-Trichloroethane	9.47	97	107785	20.562	ug/l	98
56) Ethyl methacrylate	9.32	69	129961	20.730	ug/l	98
57) 1,3-Dichloropropane	9.67	76	180239	20.412	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.20	63	333403	107.426	ug/l	97
59) 2-Hexanone	9.79	43	399231	102.086	ug/l	95
60) Dibromochloromethane	9.97	129	153651	21.598	ug/l	97
61) 1,2-Dibromoethane	10.11	107	121835	21.235	ug/l	95
64) Tetrachloroethene	9.52	164	178514	23.777	ug/l	95
65) Chlorobenzene	10.73	112	386293	23.145	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.86	131	138406	21.488	ug/l	94
67) Ethyl Benzene	10.87	91	648182	21.998	ug/l	99
68) m/p-Xylenes	11.02	106	453386	46.140	ug/l	96
69) o-Xylene	11.41	106	217685	23.195	ug/l	91
70) Styrene	11.44	104	364587	22.766	ug/l	99
71) Bromoform	11.60	173	108083	21.036	ug/l	96
73) Isopropylbenzene	11.78	105	638593	23.462	ug/l	98
74) N-amyl acetate	11.65	43	224248	21.308	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.08	83	130400	20.587	ug/l	97
76) 1,2,3-Trichloropropane	12.12	75	139949	21.065	ug/l	100
77) Bromobenzene	12.05	156	190573	23.382	ug/l	95
78) n-propylbenzene	12.15	91	784597	22.322	ug/l	97
79) 2-Chlorotoluene	12.22	91	458062	22.773	ug/l	94
80) 1,3,5-Trimethylbenzene	12.32	105	495105	23.321	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.85	75	26710	16.484	ug/l	95
82) 4-Chlorotoluene	12.33	91	504260	22.762	ug/l	95
83) tert-Butylbenzene	12.58	119	539100	22.087	ug/l	98
84) 1,2,4-Trimethylbenzene	12.63	105	519915	22.530	ug/l	97
85) sec-Butylbenzene	12.77	105	664031	23.210	ug/l	96
86) p-Isopropyltoluene	12.89	119	538680	23.235	ug/l	94
87) 1,3-Dichlorobenzene	12.84	146	326936	23.078	ug/l	96
88) 1,4-Dichlorobenzene	12.93	146	311643	22.528	ug/l	99
89) n-Butylbenzene	13.20	91	561196	23.032	ug/l	96
90) Hexachloroethane	13.41	117	125427	20.844	ug/l	85
91) 1,2-Dichlorobenzene	13.20	146	280445	23.263	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.78	75	22354	22.175	ug/l	78

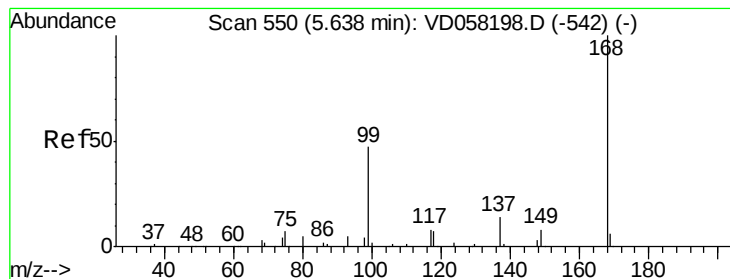
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD062418\
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.34	180	253475	21.984	ug/l	98
94) Hexachlorobutadiene	14.44	225	196284	21.765	ug/l	96
95) Naphthalene	14.52	128	331617	21.834	ug/l	100
96) 1,2,3-Trichlorobenzene	14.67	180	219749	21.770	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 551

Delta R.T. 0.01 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

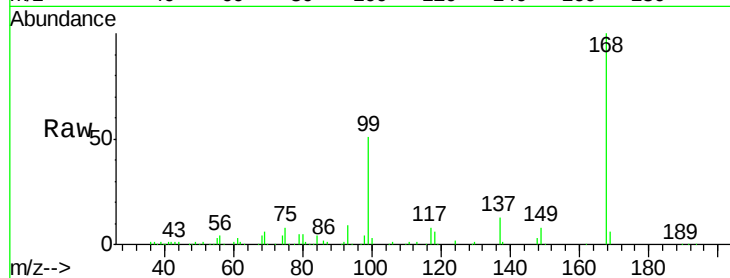
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 859558

Ion Ratio Lower Upper

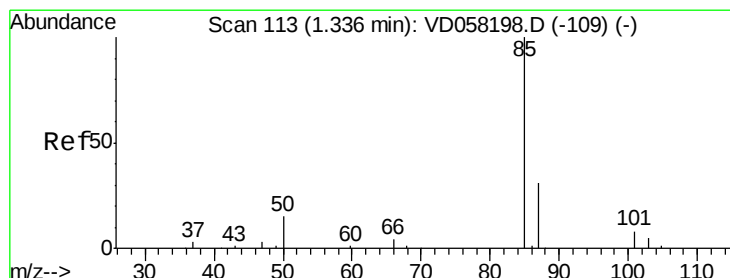
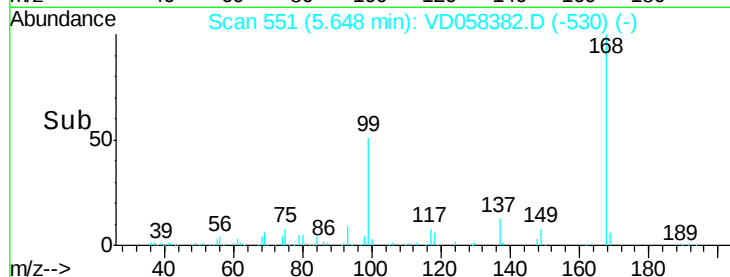
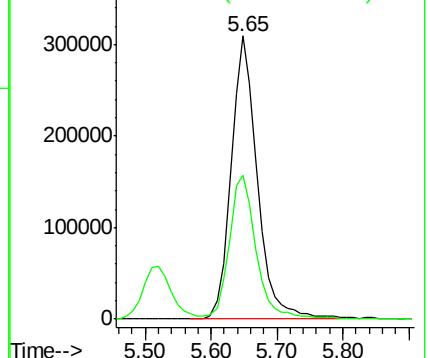
168 100

99 50.9 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 21.964 ug/l

RT: 1.34 min Scan# 113

Delta R.T. 0.00 min

Lab File: VD058382.D

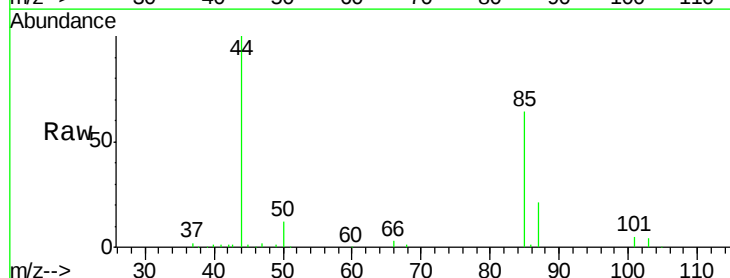
Acq: 24 Jun 2018 20:07

Tgt Ion: 85 Resp: 195305

Ion Ratio Lower Upper

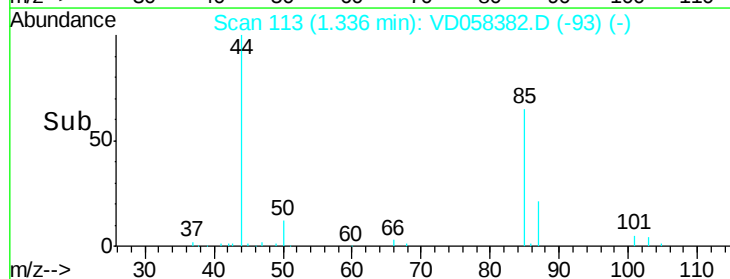
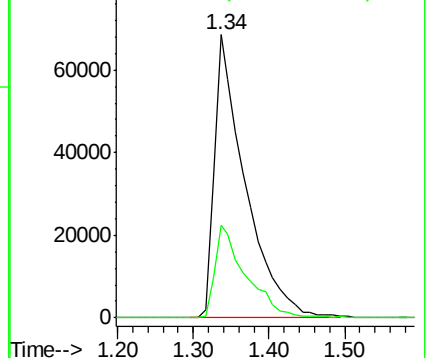
85 100

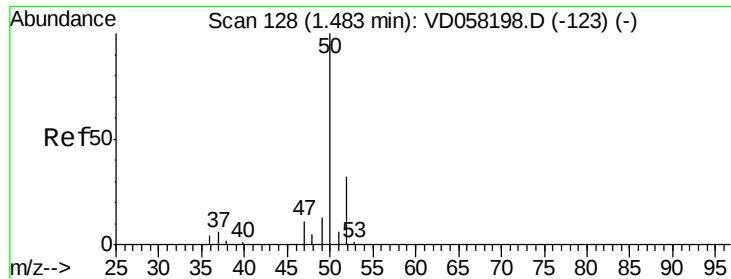
87 32.9 15.7 47.0



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 23.220 ug/l

RT: 1.47 min Scan# 127

Delta R.T. -0.01 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

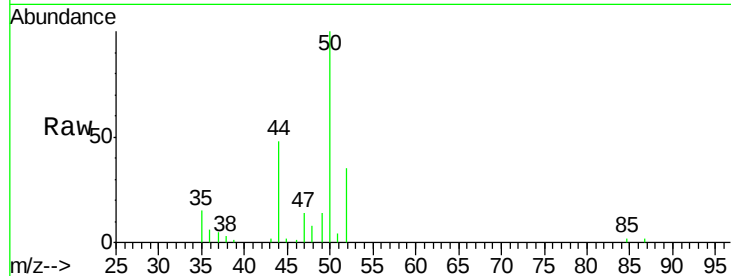
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 50 Resp: 95854

Ion Ratio Lower Upper

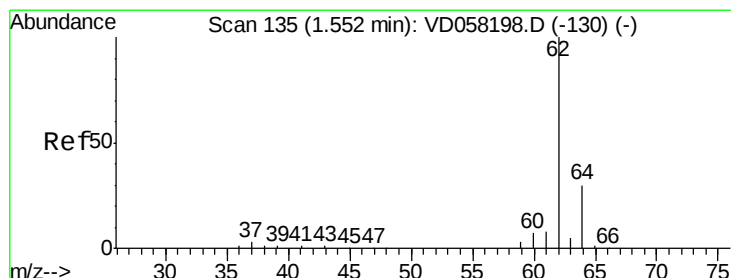
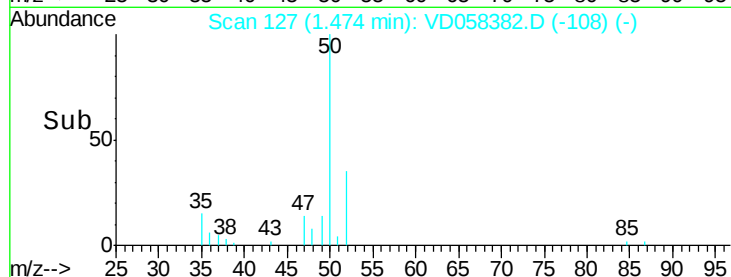
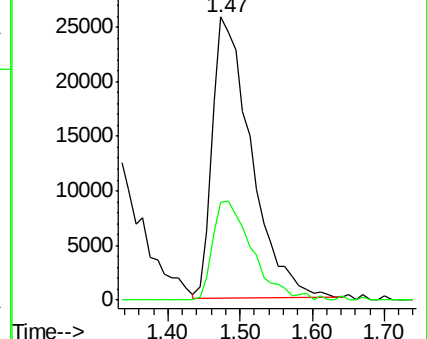
50 100

52 34.7 25.0 37.4



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 22.162 ug/l

RT: 1.55 min Scan# 135

Delta R.T. 0.00 min

Lab File: VD058382.D

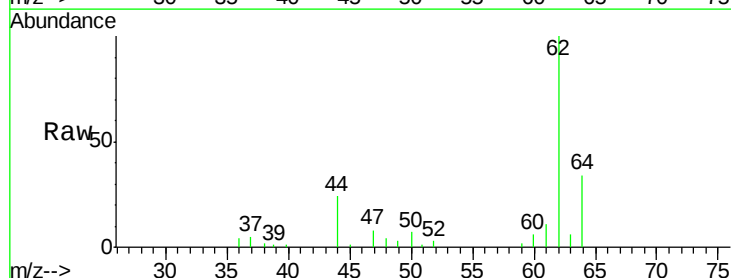
Acq: 24 Jun 2018 20:07

Tgt Ion: 62 Resp: 99794

Ion Ratio Lower Upper

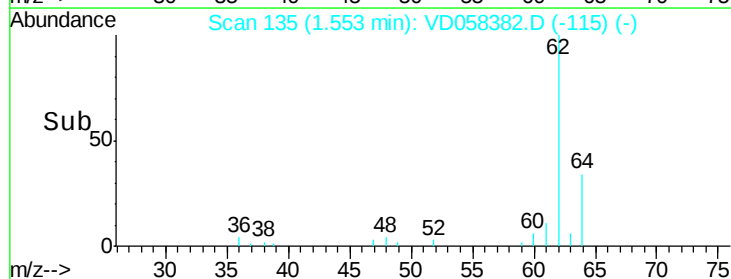
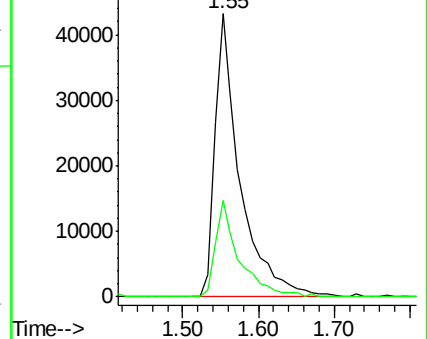
62 100

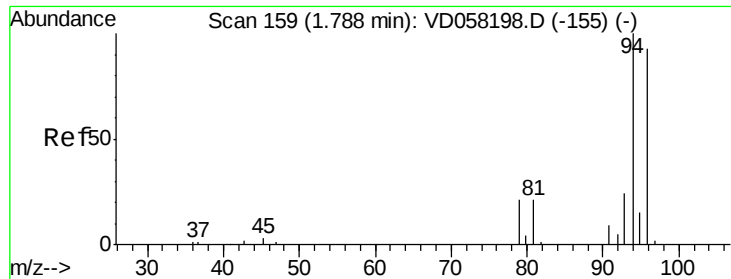
64 34.1 24.4 36.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

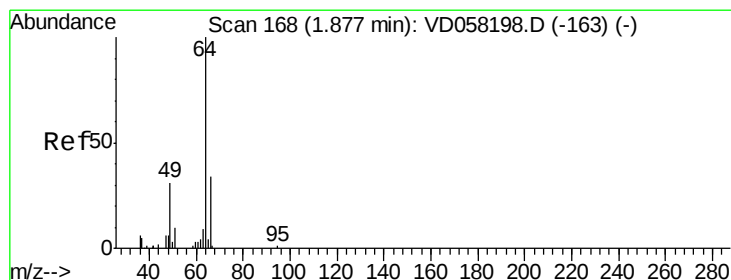
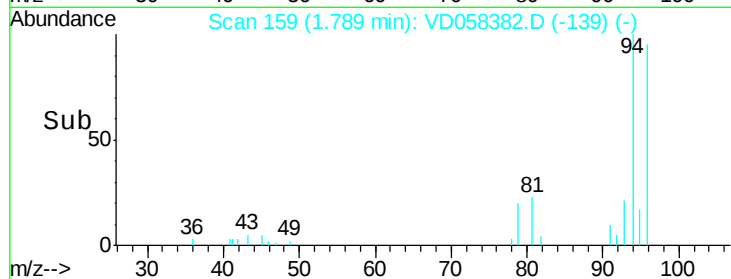
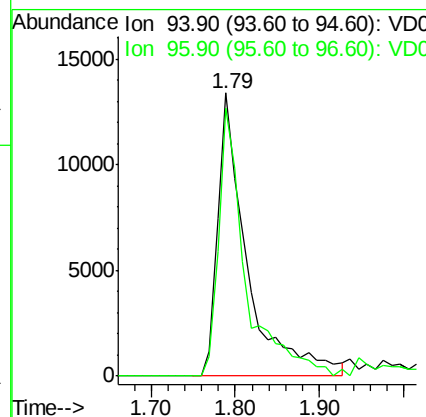
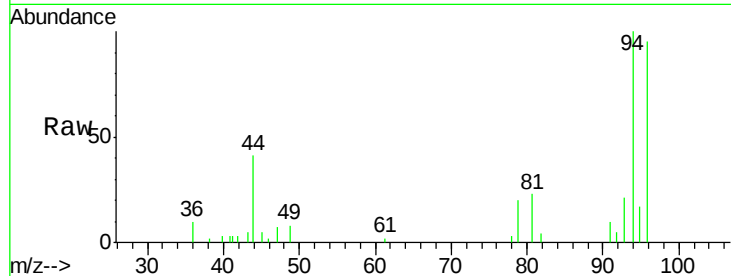




#5
Bromomethane
Concen: 19.104 ug/l
RT: 1.79 min Scan# 159
Delta R.T. 0.00 min
Lab File: VD058382.D
Acq: 24 Jun 2018 20:07

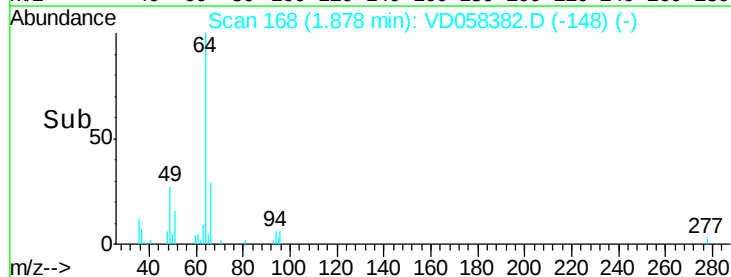
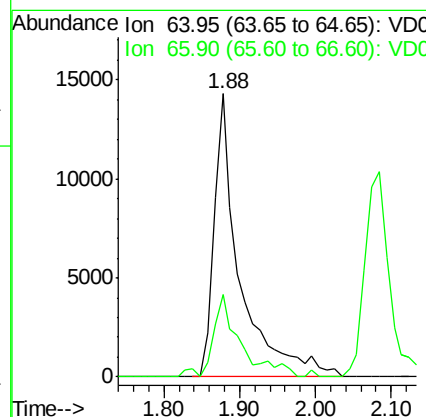
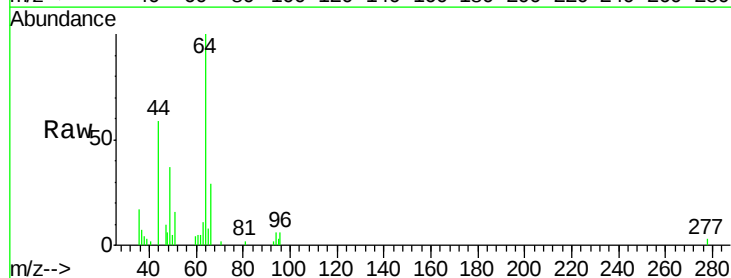
Instrument :
MSVOA_D
ClientSampled :

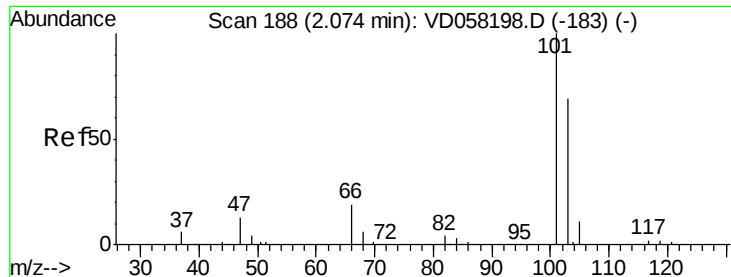
Tot Ion: 94 Resp: 32549
Ion Ratio Lower Upper
94 100
96 94.7 74.2 111.2



#6
Chloroethane
Concen: 19.266 ug/l
RT: 1.88 min Scan# 168
Delta R.T. 0.00 min
Lab File: VD058382.D
Acq: 24 Jun 2018 20:07

Tgt Ion: 64 Resp: 33832
Ion Ratio Lower Upper
64 100
66 29.1 27.3 40.9



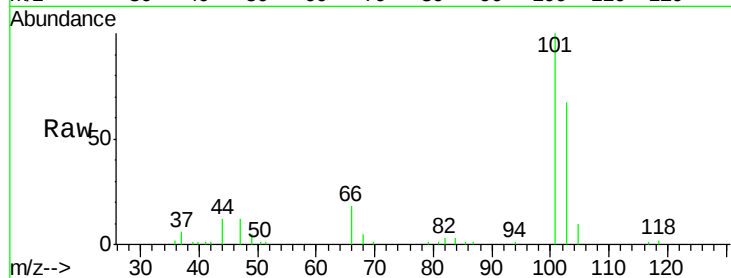


#7

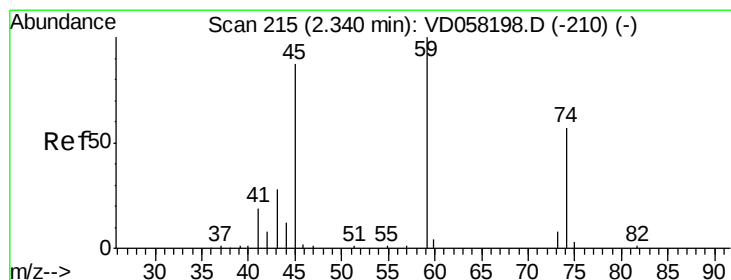
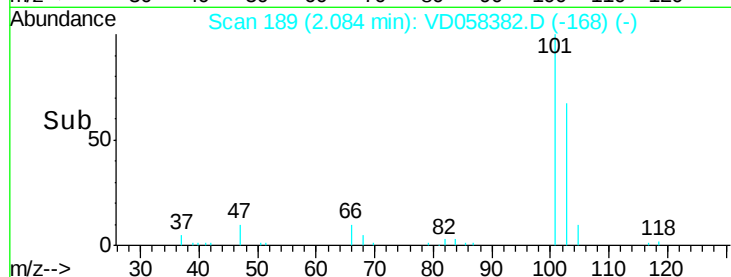
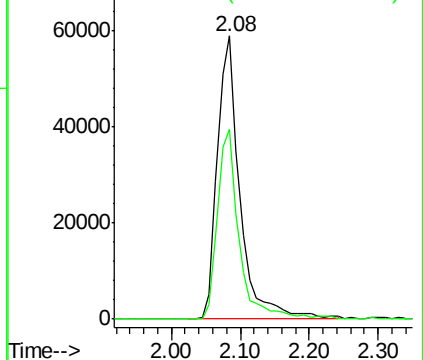
Trichlorofluoromethane
Concen: 21.858 ug/l
RT: 2.08 min Scan# 189
Delta R.T. 0.01 min
Lab File: VD058382.D
Acq: 24 Jun 2018 20:07

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:101 Resp: 134953
Ion Ratio Lower Upper
101 100
103 67.3 55.1 82.7



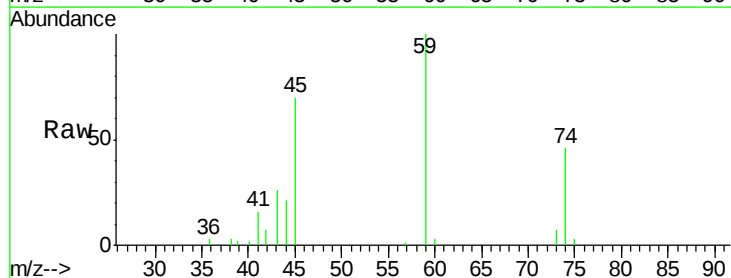
Abundance Ion 100.85 (100.55 to 101.55): V
Ion 102.85 (102.55 to 103.55): V



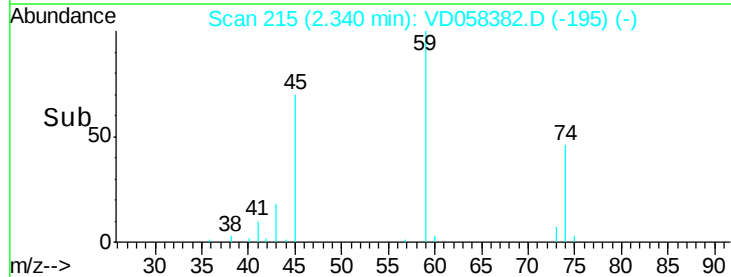
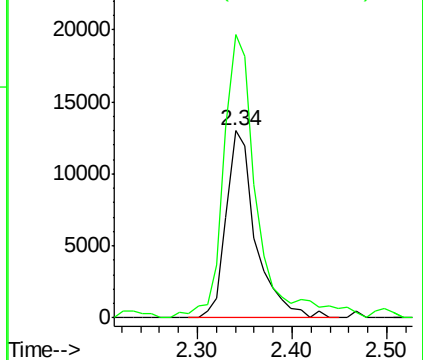
#8

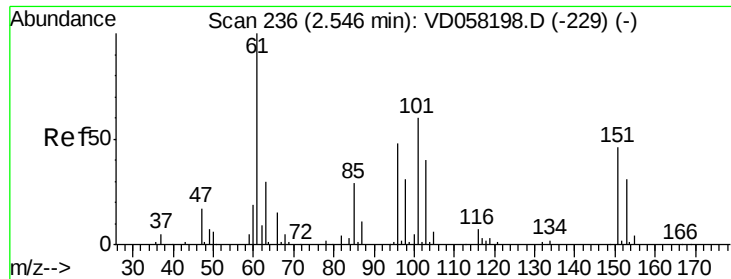
Diethyl Ether
Concen: 21.464 ug/l
RT: 2.34 min Scan# 215
Delta R.T. 0.00 min
Lab File: VD058382.D
Acq: 24 Jun 2018 20:07

Tgt Ion: 74 Resp: 28029
Ion Ratio Lower Upper
74 100
45 151.4 77.5 232.6



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: 22.269 ug/l

RT: 2.55 min Scan# 236

Delta R.T. 0.00 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

Instrument :

MSVOA_D

ClientSampleId :

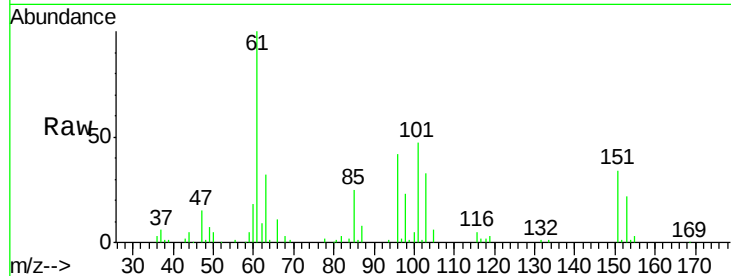
Tot Ion:101 Resp: 87405

Ion Ratio Lower Upper

101 100

85 54.3 39.0 58.4

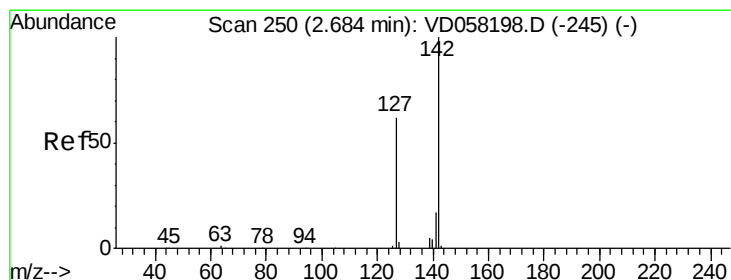
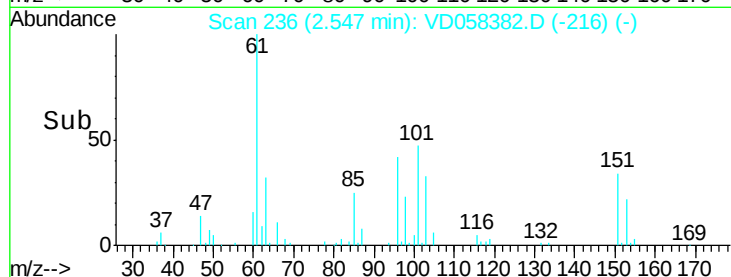
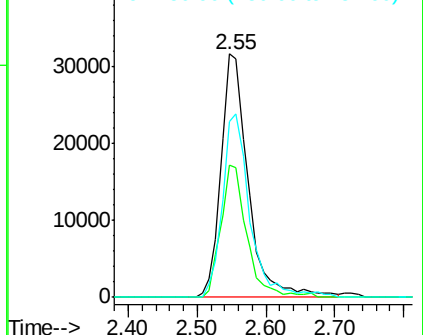
151 72.3 61.8 92.8



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 17.032 ug/l

RT: 2.68 min Scan# 250

Delta R.T. 0.00 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

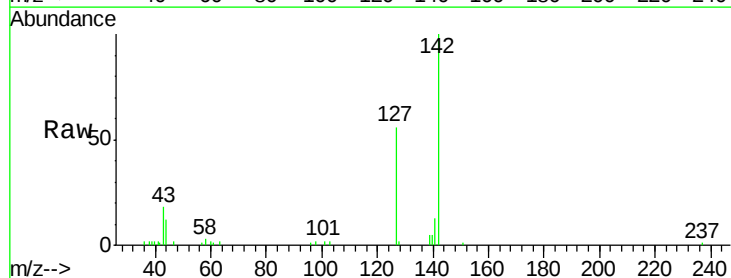
Tgt Ion:142 Resp: 76041

Ion Ratio Lower Upper

142 100

127 56.2 49.4 74.0

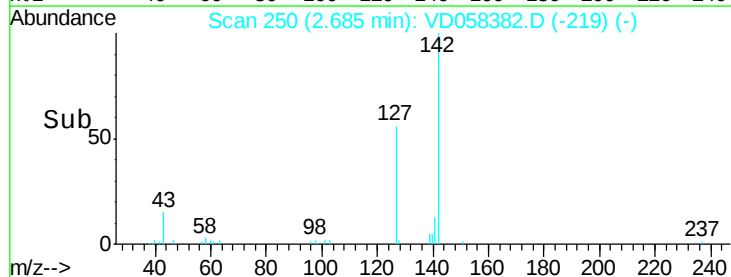
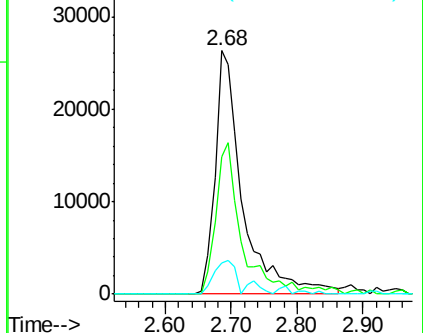
141 12.6 13.5 20.3#

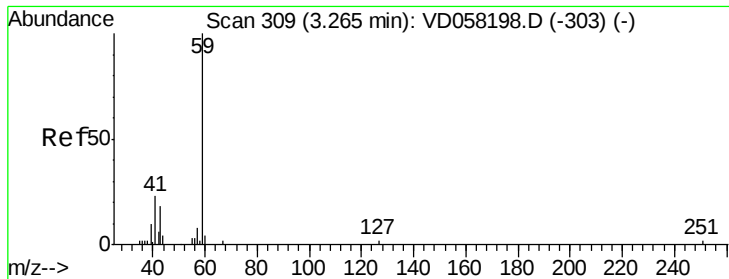


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

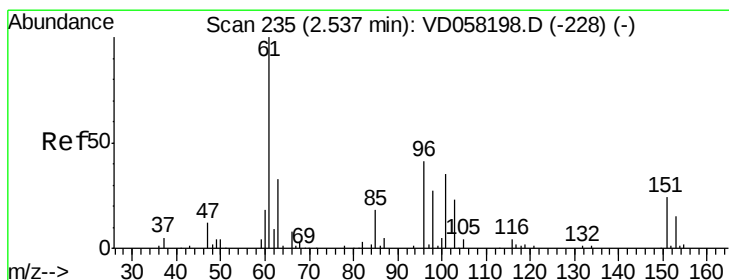
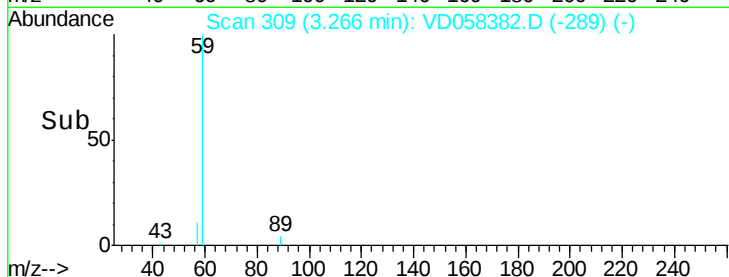
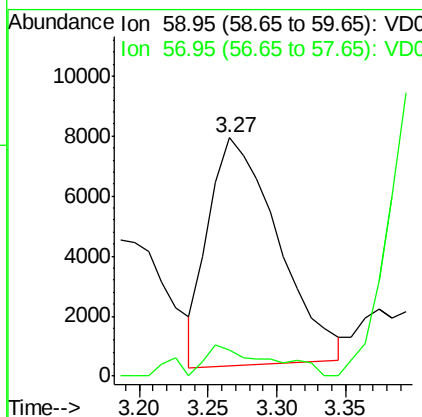
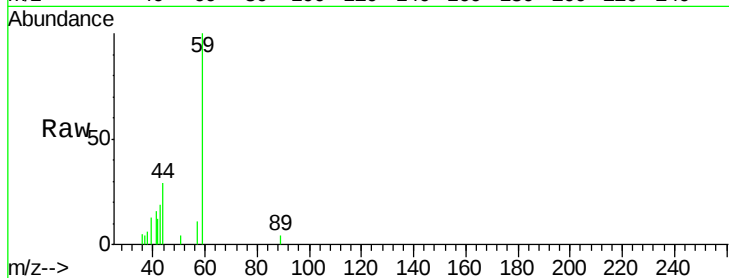




#11
Tert butyl alcohol
Concen: 92.955 ug/l
RT: 3.27 min Scan# 309
Delta R.T. 0.00 min
Lab File: VD058382.D
Acq: 24 Jun 2018 20:07

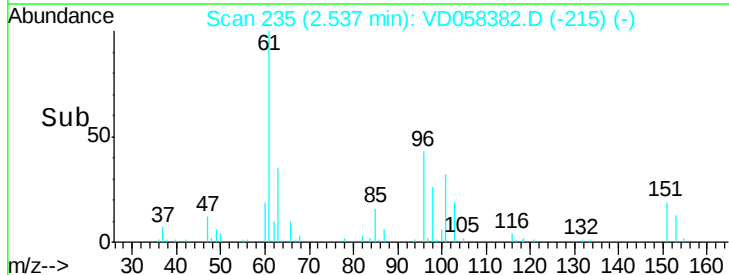
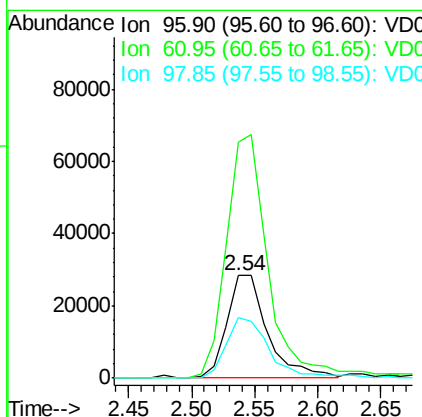
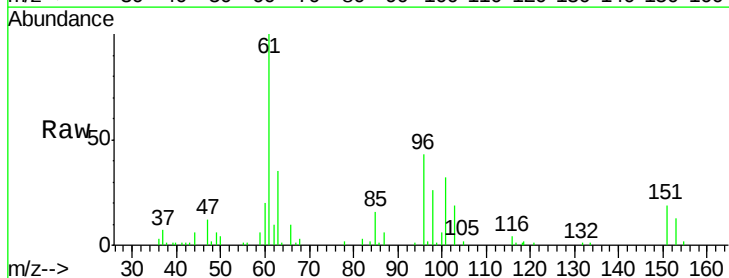
Instrument :
MSVOA_D
ClientSampleId :

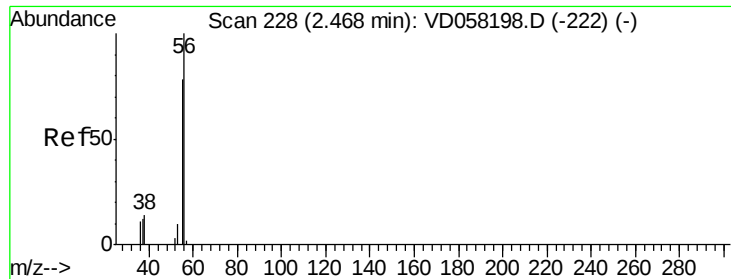
Tot Ion: 59 Resp: 26618
Ion Ratio Lower Upper
59 100
57 11.0 6.2 9.4#



#12
1,1-Dichloroethene
Concen: 21.478 ug/l
RT: 2.54 min Scan# 235
Delta R.T. 0.00 min
Lab File: VD058382.D
Acq: 24 Jun 2018 20:07

Tgt Ion: 96 Resp: 63427
Ion Ratio Lower Upper
96 100
61 230.4 193.9 290.9
98 59.0 51.7 77.5





#13

Acrolein

Concen: 83.142 ug/l

RT: 2.47 min Scan# 228

Delta R.T. 0.00 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

Instrument :

MSVOA_D

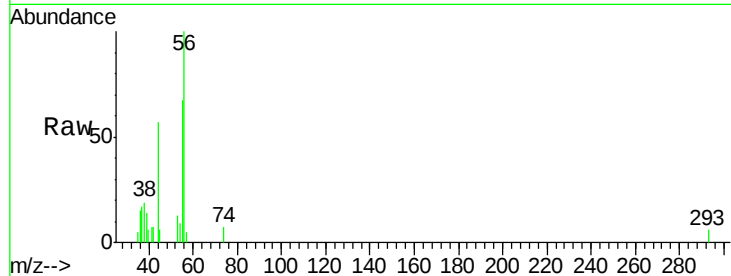
ClientSampled :

Tot Ion: 56 Resp: 13591

Ion Ratio Lower Upper

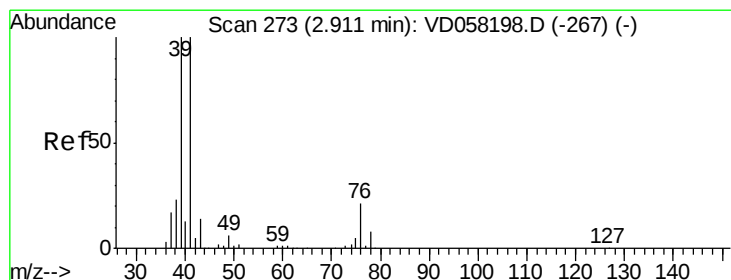
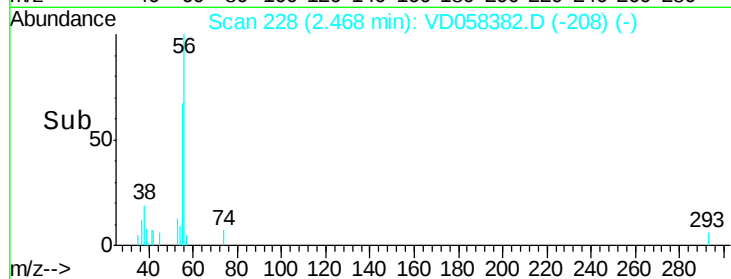
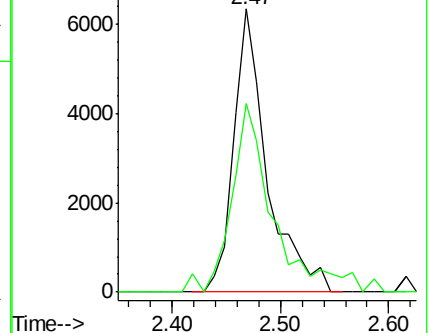
56 100

55 66.6 62.1 93.1



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 21.596 ug/l

RT: 2.92 min Scan# 274

Delta R.T. 0.01 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

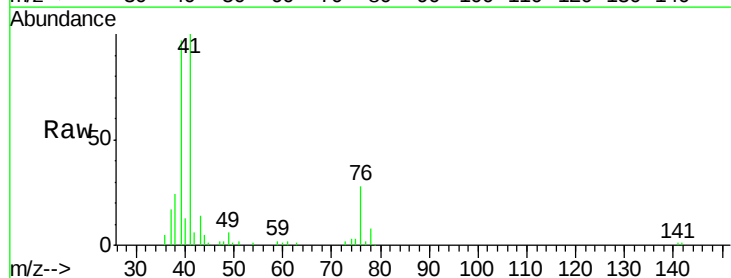
Tgt Ion: 41 Resp: 148432

Ion Ratio Lower Upper

41 100

39 97.1 80.1 120.1

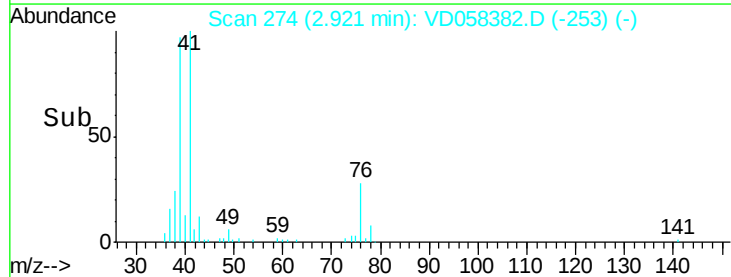
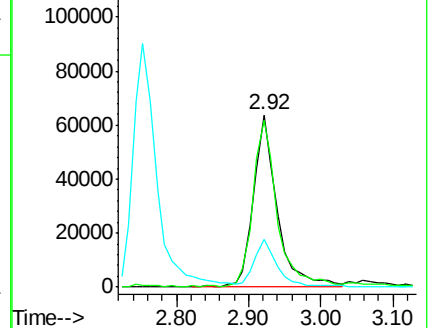
76 28.1 19.4 29.2

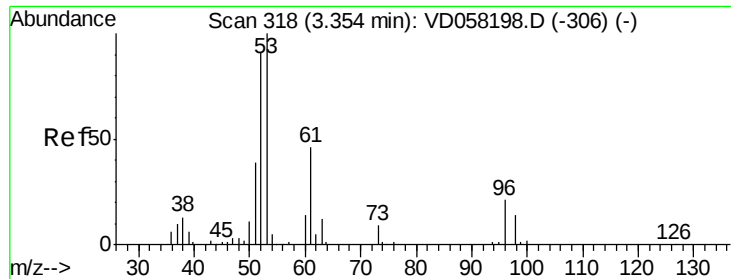


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 116.428 ug/l

RT: 3.35 min Scan# 318

Delta R.T. 0.00 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

Instrument :
MSVOA_D
ClientSampleId :

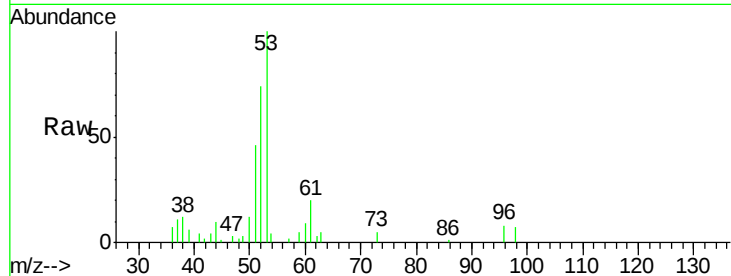
Tot Ion: 53 Resp: 88401

Ion Ratio Lower Upper

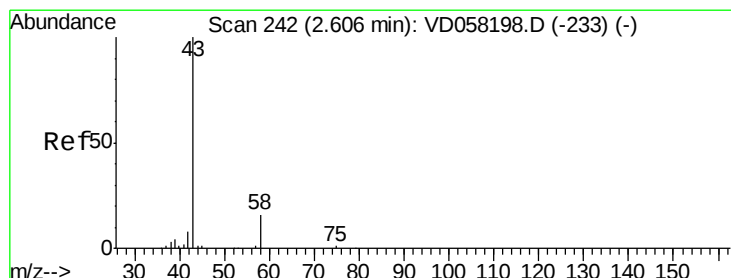
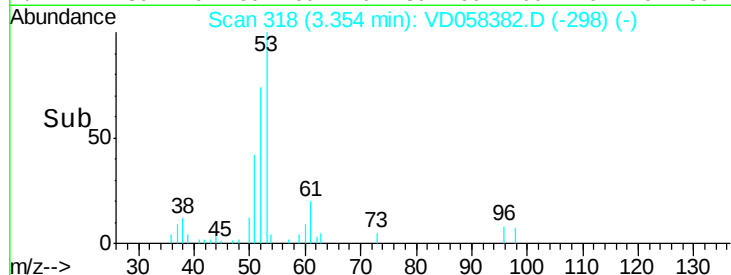
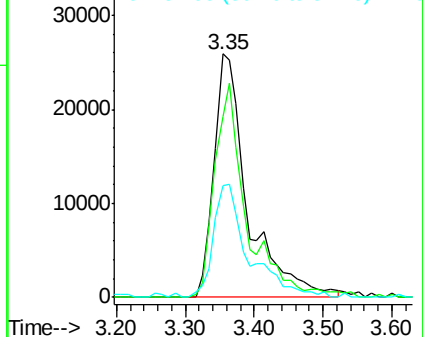
53 100

52 74.3 72.6 108.8

51 45.7 32.2 48.4



Abundance Ion 53.00 (52.70 to 53.70): VDC
Ion 52.00 (51.70 to 52.70): VDC
Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 97.283 ug/l

RT: 2.62 min Scan# 243

Delta R.T. 0.01 min

Lab File: VD058382.D

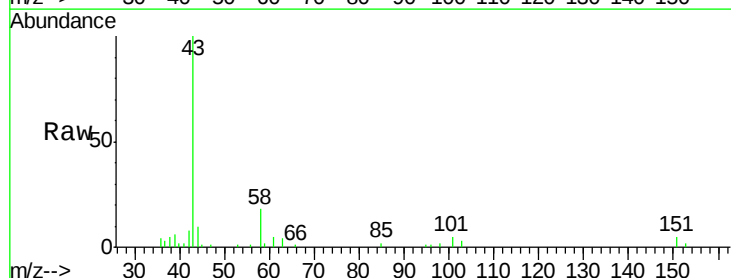
Acq: 24 Jun 2018 20:07

Tgt Ion: 43 Resp: 115509

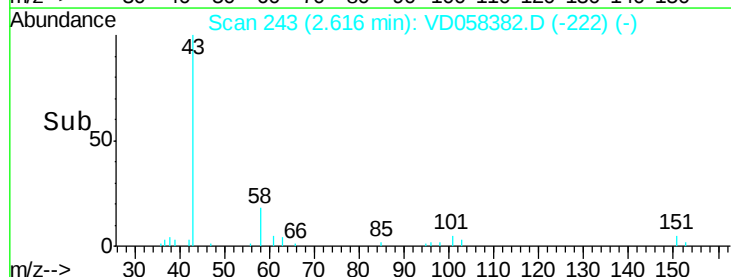
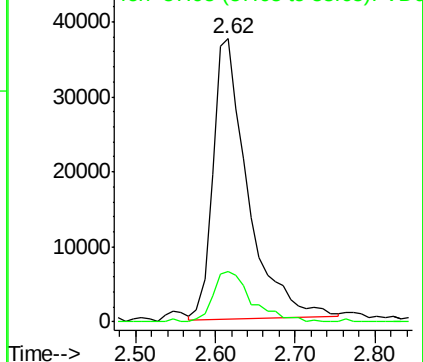
Ion Ratio Lower Upper

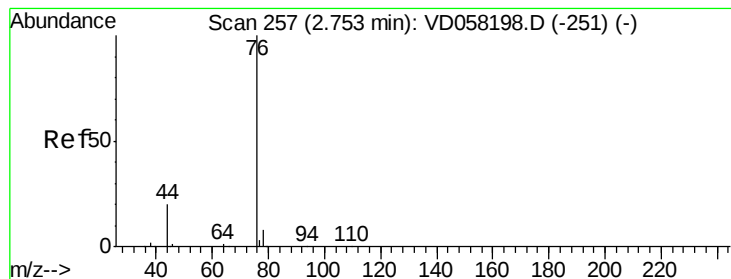
43 100

58 17.9 12.7 19.1



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





#17

Carbon Disulfide

Concen: 20.221 ug/l

RT: 2.75 min Scan# 257

Delta R.T. 0.00 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

Instrument :

MSVOA_D

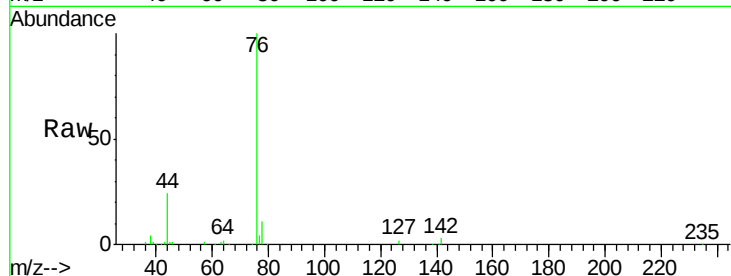
ClientSampleId :

Tot Ion: 76 Resp: 203163

Ion Ratio Lower Upper

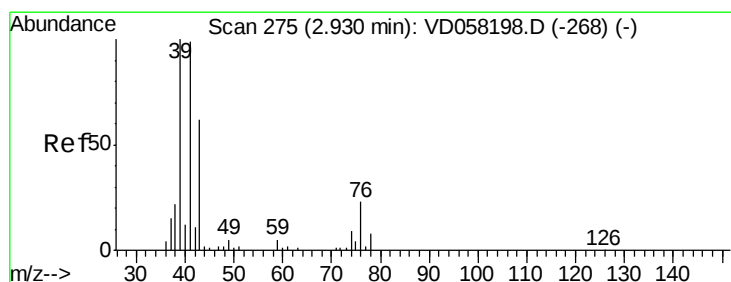
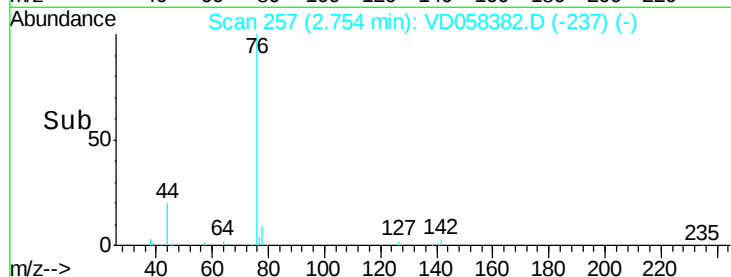
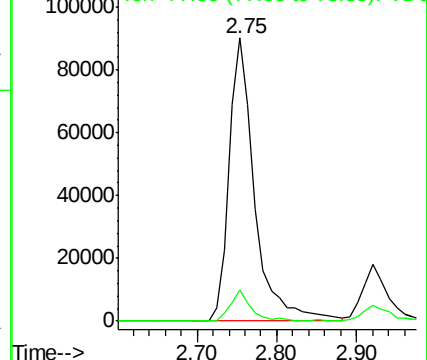
76 100

78 10.9 6.8 10.2#



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 21.916 ug/l

RT: 2.94 min Scan# 276

Delta R.T. 0.01 min

Lab File: VD058382.D

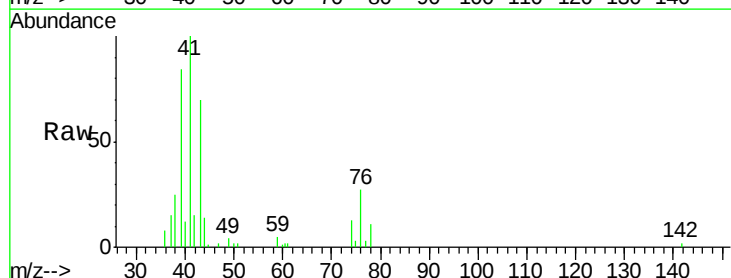
Acq: 24 Jun 2018 20:07

Tgt Ion: 43 Resp: 55496

Ion Ratio Lower Upper

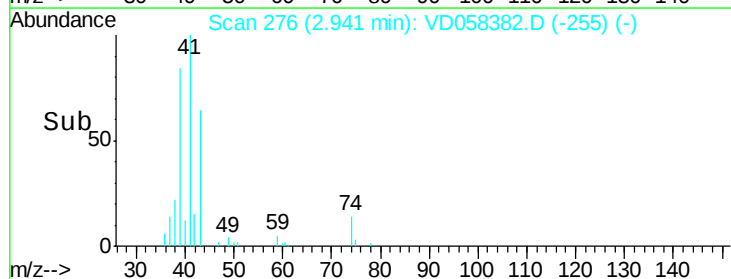
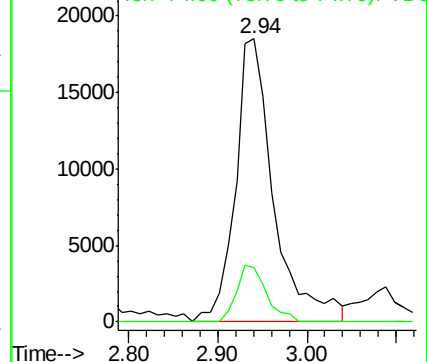
43 100

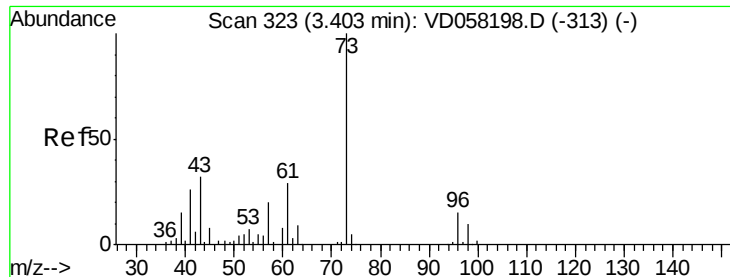
74 19.1 11.7 17.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

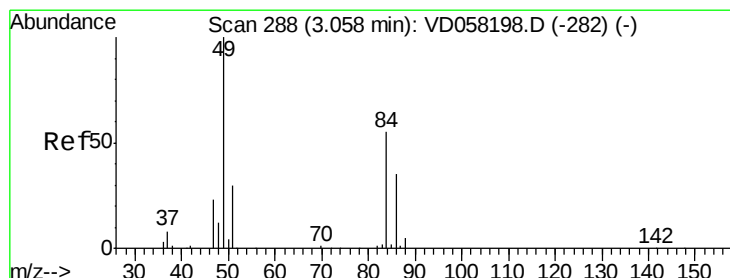
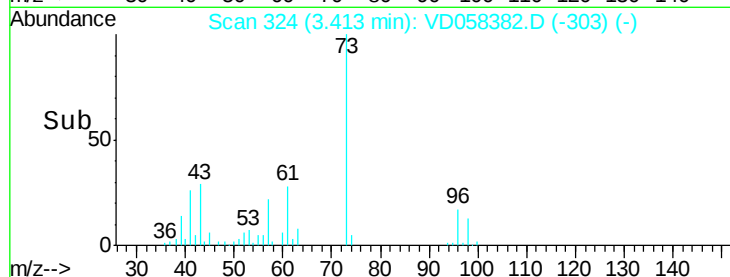
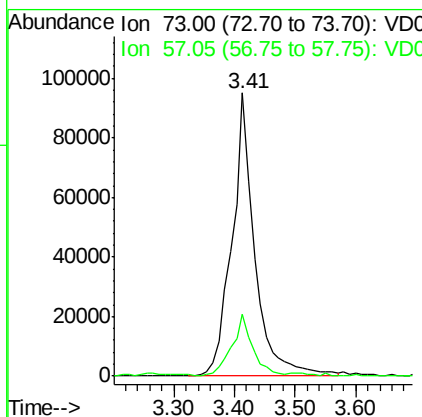
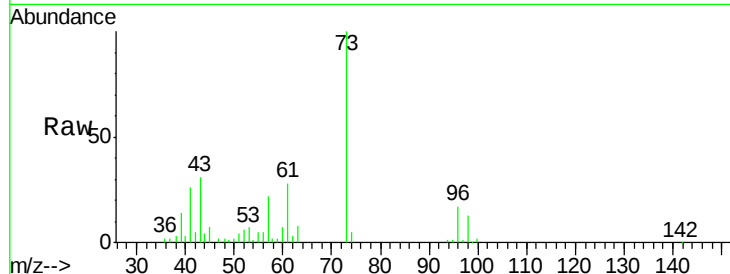




#19
Methvl tert-butvl Ether
Concen: 31.838 ug/l
RT: 3.41 min Scan# 324
Delta R.T. 0.01 min
Lab File: VD058382.D
Acq: 24 Jun 2018 20:07

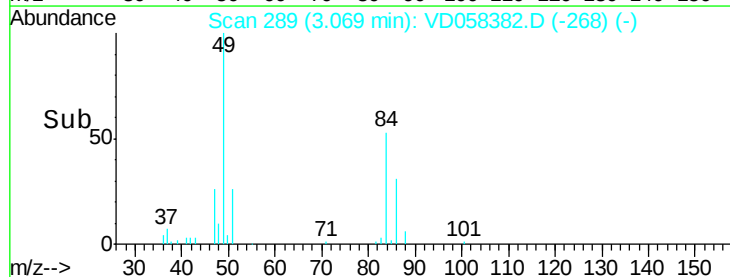
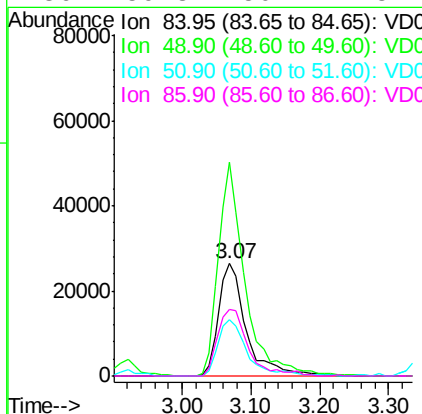
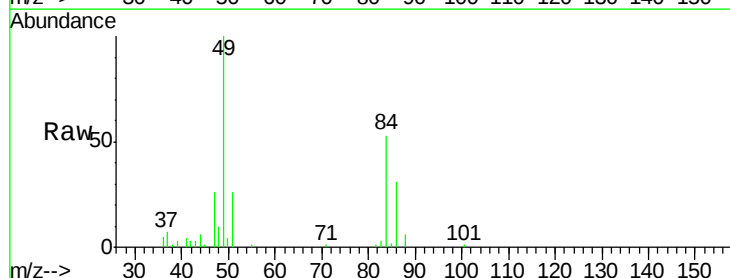
Instrument :
MSVOA_D
ClientSampled :

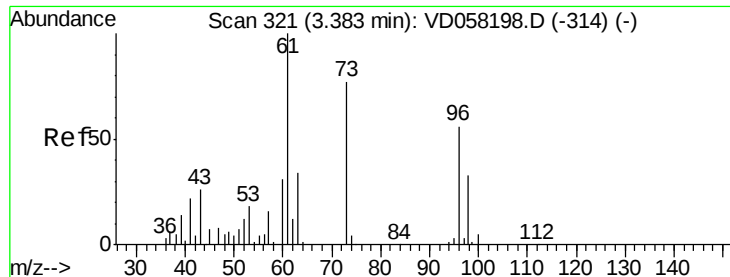
Tot Ion: 73 Resp: 249372
Ion Ratio Lower Upper
73 100
57 21.8 16.6 24.8



#20
Methylene Chloride
Concen: 20.969 ug/l
RT: 3.07 min Scan# 289
Delta R.T. 0.01 min
Lab File: VD058382.D
Acq: 24 Jun 2018 20:07

Tgt Ion: 84 Resp: 73575
Ion Ratio Lower Upper
84 100
49 190.3 145.0 217.6
51 50.4 42.9 64.3
86 59.3 50.1 75.1





#21

trans-1,2-Dichloroethene

Concen: 27.233 ug/l

RT: 3.38 min Scan# 321

Delta R.T. 0.00 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

Instrument :

MSVOA_D

ClientSampleId :

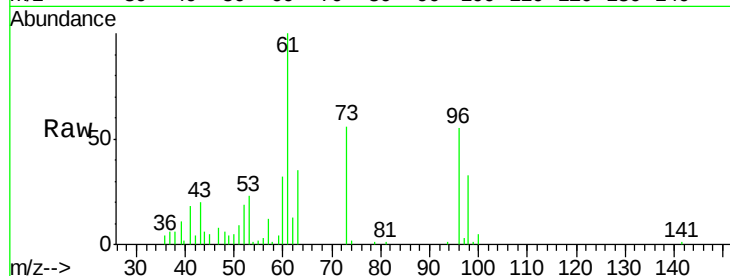
Tot Ion: 96 Resp: 87893

Ion Ratio Lower Upper

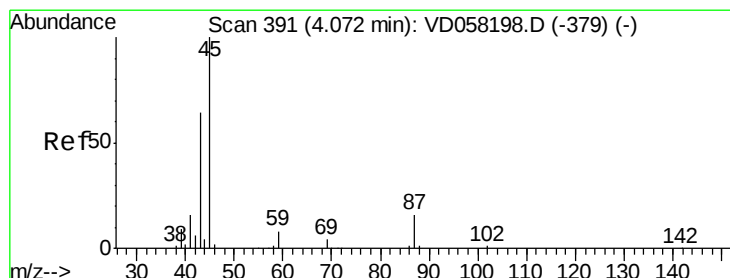
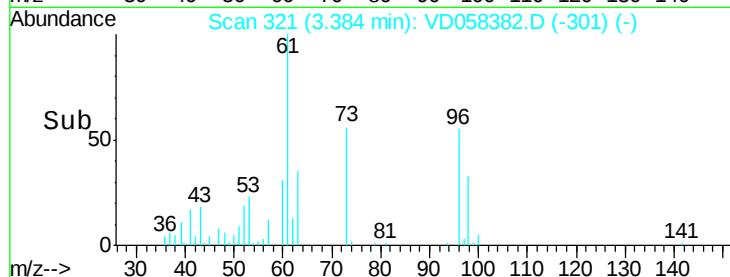
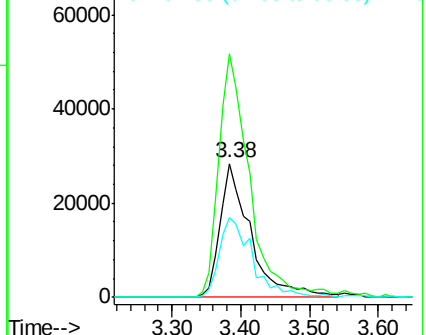
96 100

61 181.9 143.8 215.6

98 60.0 48.0 72.0



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



#22

Diisopropyl ether

Concen: 19.612 ug/l

RT: 4.07 min Scan# 391

Delta R.T. 0.00 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

Tgt Ion: 45 Resp: 535371

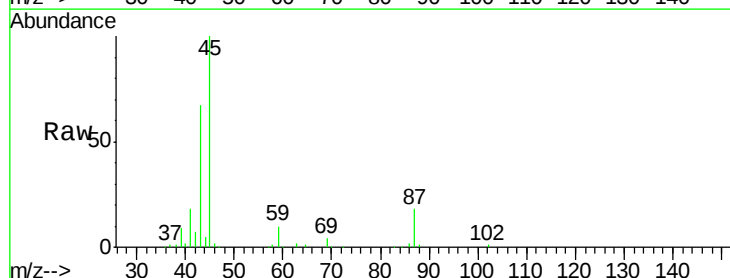
Ion Ratio Lower Upper

45 100

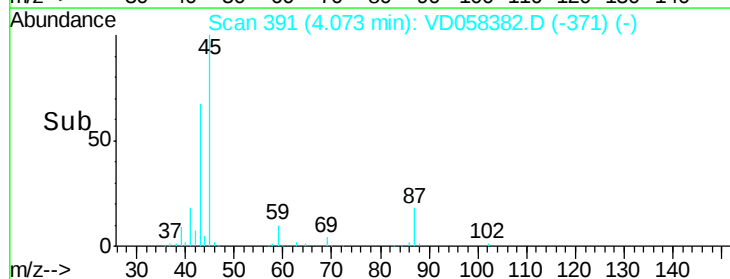
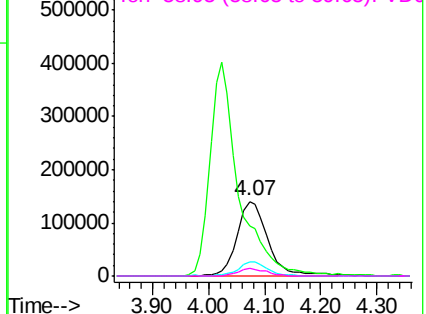
43 67.5 51.4 77.0

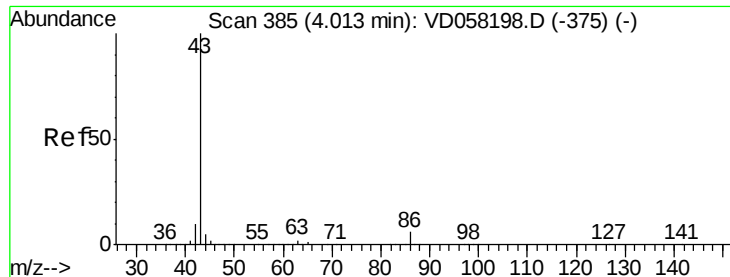
87 18.5 13.0 19.4

59 10.4 6.9 10.3#



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: 98.213 ug/l

RT: 4.02 min Scan# 386

Delta R.T. 0.01 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

Instrument :

MSVOA_D

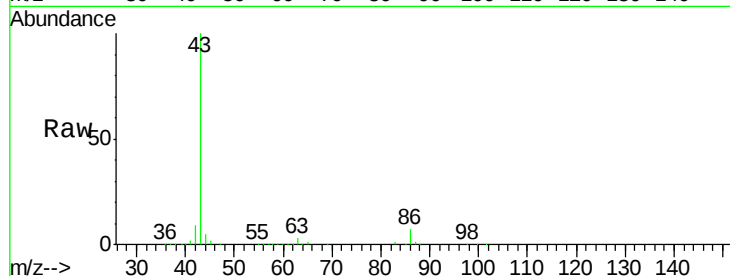
ClientSampled :

Tot Ion: 43 Resp: 1437181

Ion Ratio Lower Upper

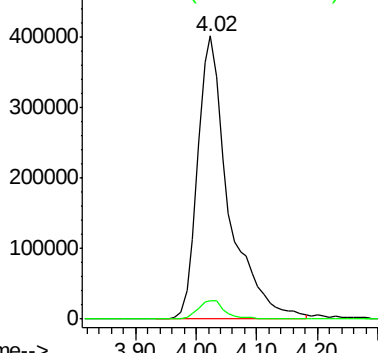
43 100

86 6.6 5.0 7.4

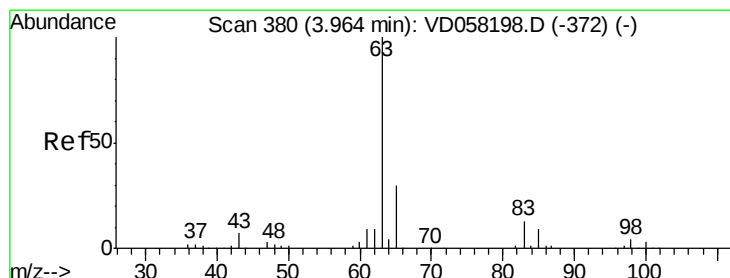
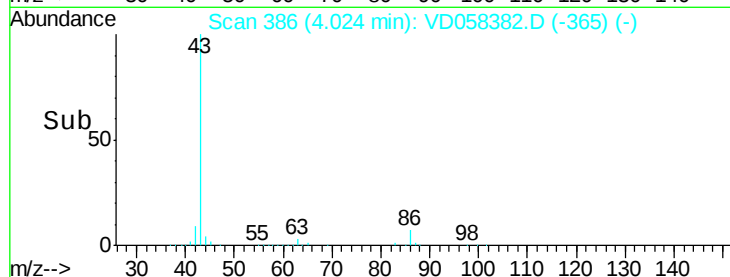


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



Time-->



#24

1,1-Dichloroethane

Concen: 21.210 ug/l

RT: 3.97 min Scan# 381

Delta R.T. 0.01 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

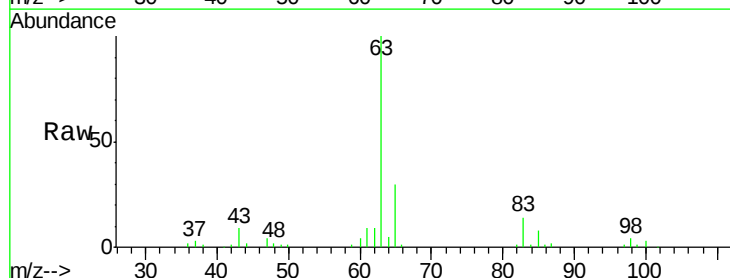
Tgt Ion: 63 Resp: 311922

Ion Ratio Lower Upper

63 100

98 4.3 1.9 5.7

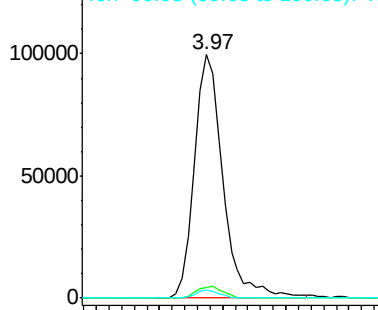
100 3.3 1.3 3.9



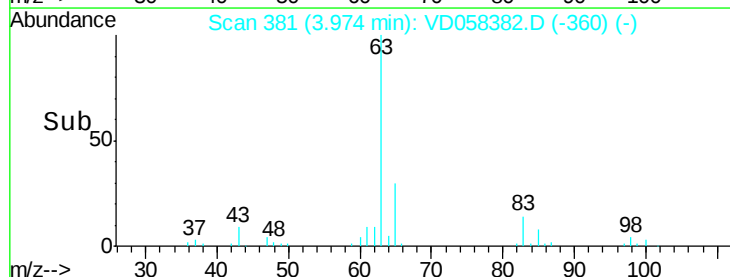
Abundance Ion 62.95 (62.65 to 63.65): VDC

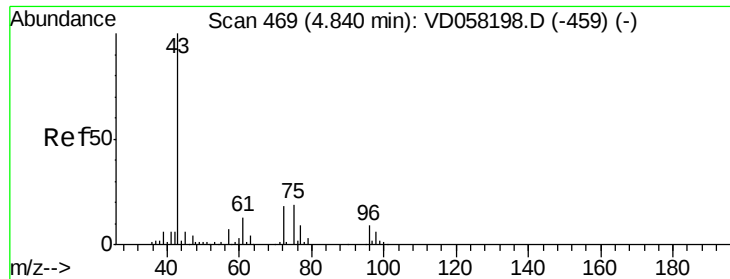
Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC



Time-->





#25

2-Butanone

Concen: 99.664 ug/l

RT: 4.84 min Scan# 469

Delta R.T. 0.00 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

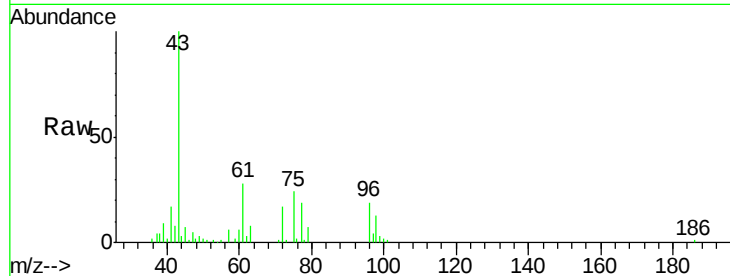
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 257917

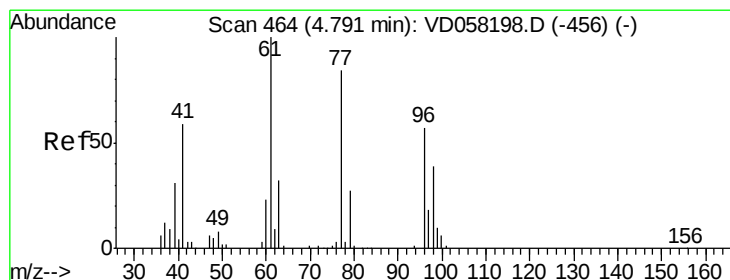
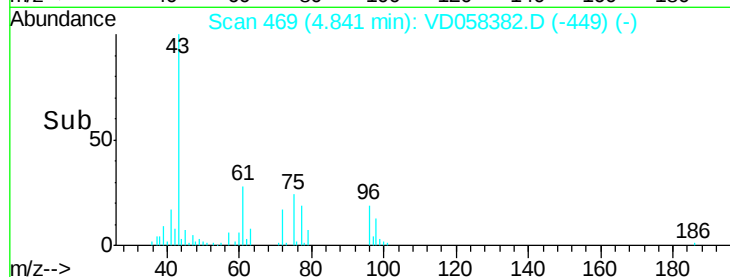
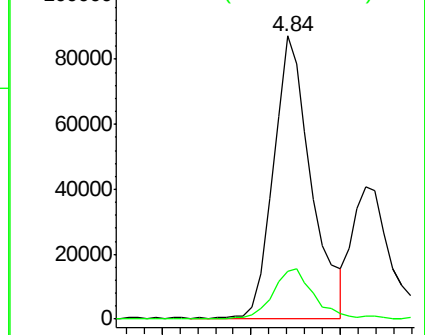
Ion Ratio Lower Upper

43 100

72 16.8 14.1 21.1



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 20.270 ug/l

RT: 4.80 min Scan# 465

Delta R.T. 0.01 min

Lab File: VD058382.D

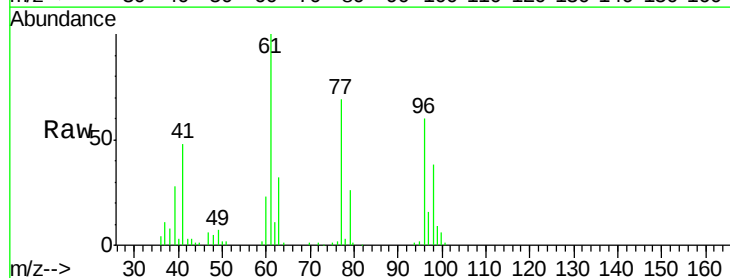
Acq: 24 Jun 2018 20:07

Tgt Ion: 77 Resp: 249616

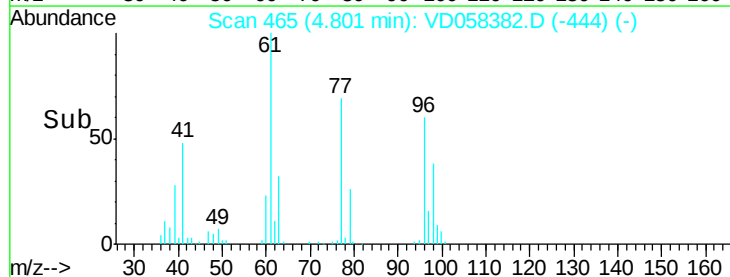
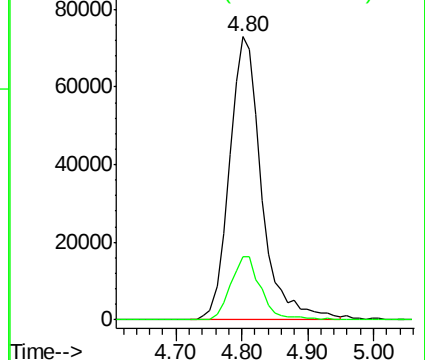
Ion Ratio Lower Upper

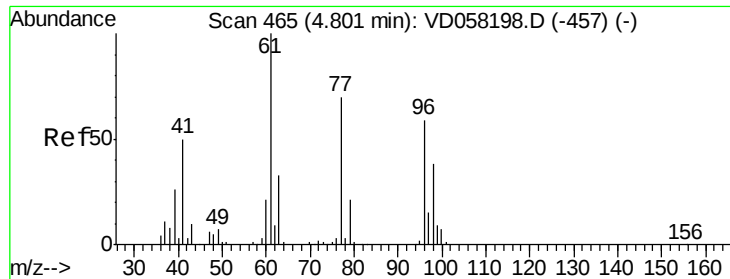
77 100

97 22.5 10.5 31.6



Abundance Ion 76.95 (76.65 to 77.65): VDC
Ion 96.85 (96.55 to 97.55): VDC



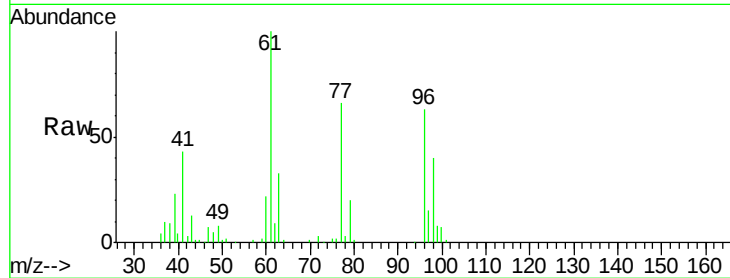


#27

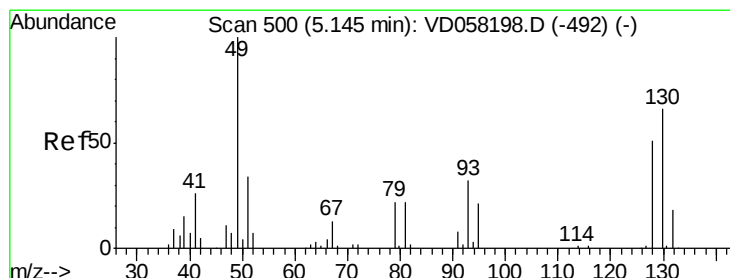
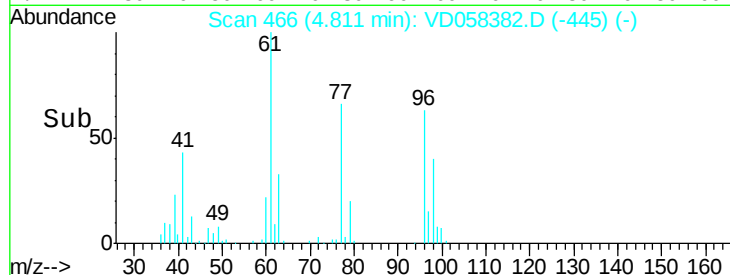
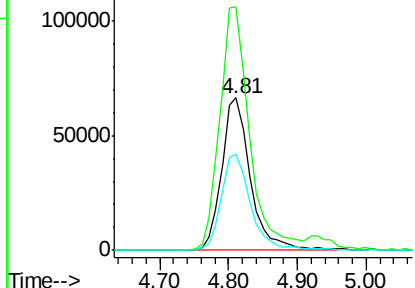
cis-1,2-Dichloroethene
Concen: 23.802 ug/l
RT: 4.81 min Scan# 466
Delta R.T. 0.01 min
Lab File: VD058382.D
Acq: 24 Jun 2018 20:07

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	159.6	0.0	338.6
98	63.3	0.0	130.2



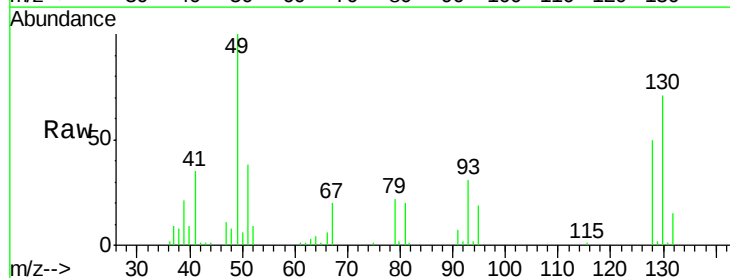
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



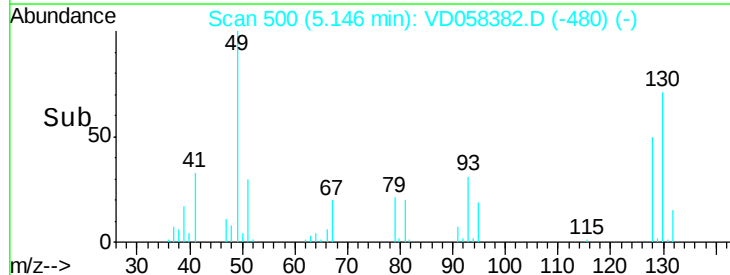
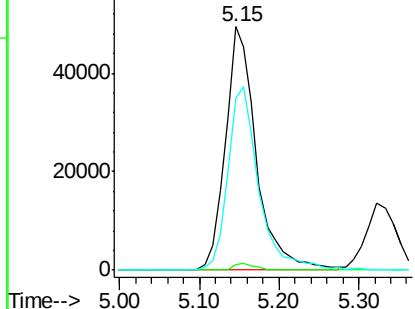
#28

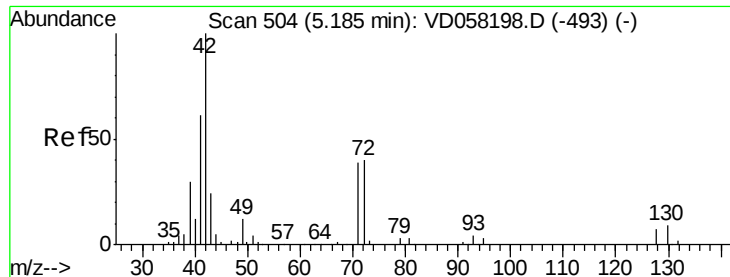
Bromochloromethane
Concen: 20.322 ug/l
RT: 5.15 min Scan# 500
Delta R.T. 0.00 min
Lab File: VD058382.D
Acq: 24 Jun 2018 20:07

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	0.0#
130	70.7	52.6	79.0



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

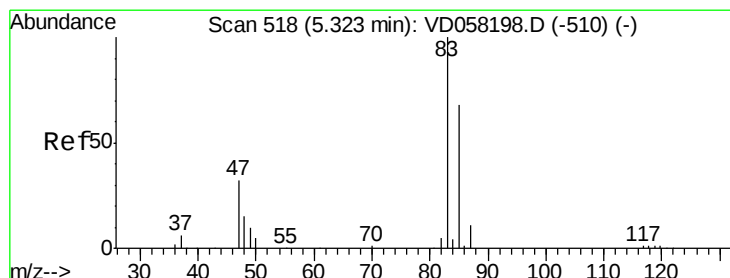
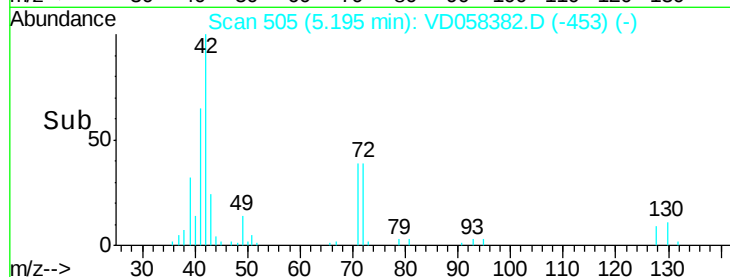
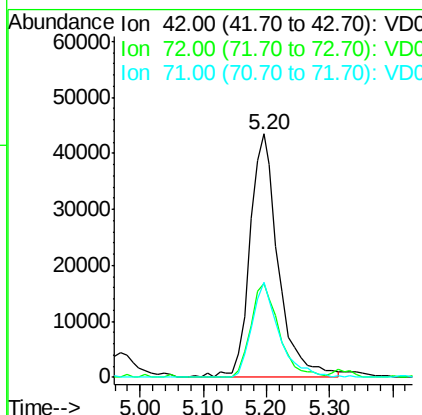
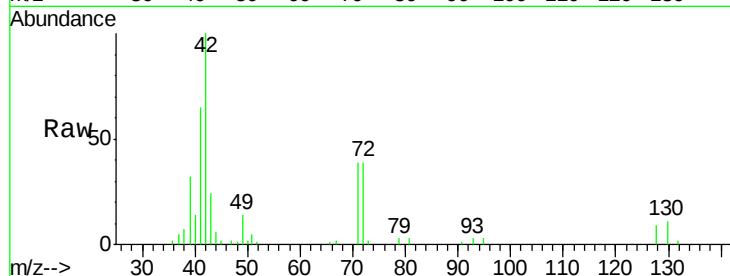




#29
Tetrahydrofuran
Concen: 99.002 ug/l
RT: 5.20 min Scan# 505
Delta R.T. 0.01 min
Lab File: VD058382.D
Acq: 24 Jun 2018 20:07

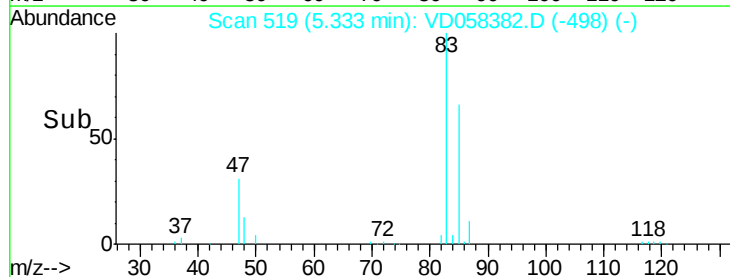
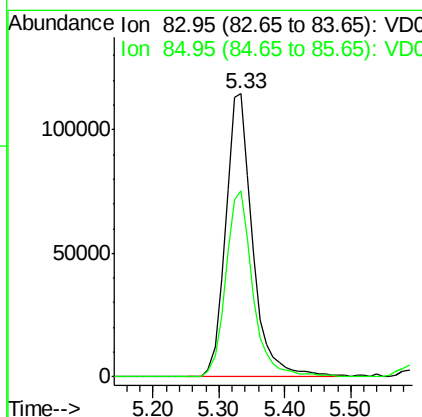
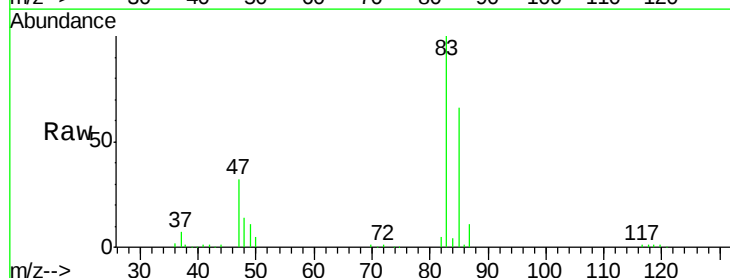
Instrument :
MSVOA_D
ClientSampleID :

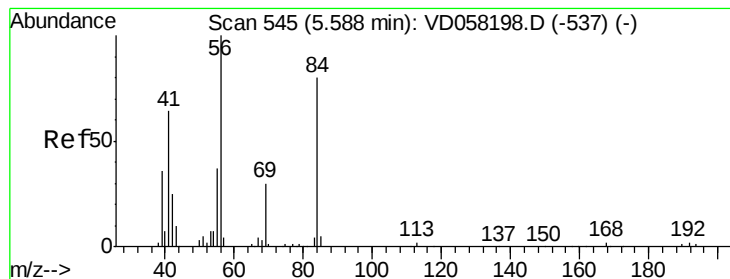
Tot Ion: 42 Resp: 136372
Ion Ratio Lower Upper
42 100
72 38.5 30.2 45.2
71 37.8 30.1 45.1



#30
Chloroform
Concen: 21.105 ug/l
RT: 5.33 min Scan# 519
Delta R.T. 0.01 min
Lab File: VD058382.D
Acq: 24 Jun 2018 20:07

Tgt Ion: 83 Resp: 327677
Ion Ratio Lower Upper
83 100
85 65.7 54.8 82.2





#31

Cyclohexane

Concen: 20.310 ug/l

RT: 5.60 min Scan# 546

Delta R.T. 0.01 min

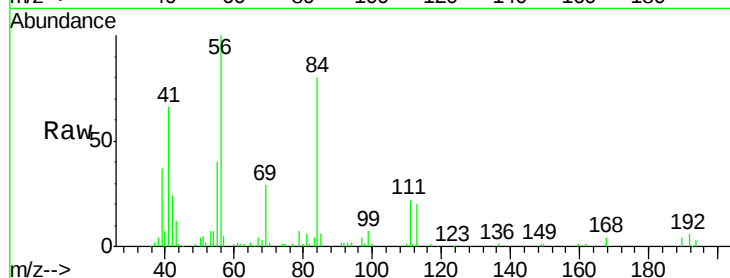
Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

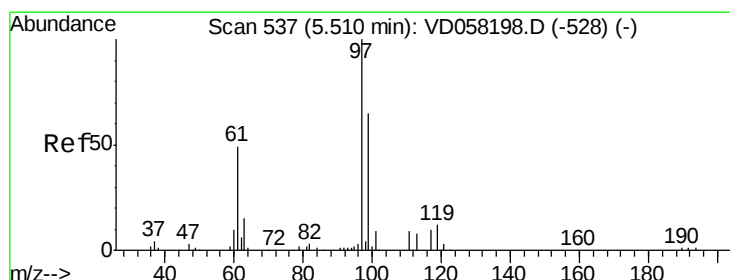
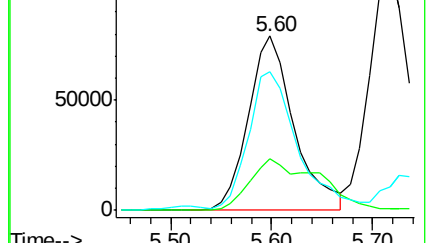
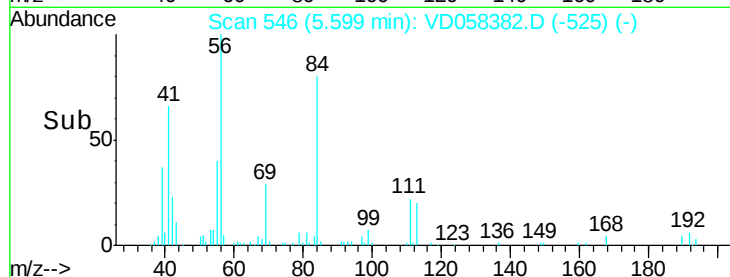
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 250006

Ion	Ratio	Lower	Upper
56	100		
69	29.4	23.6	35.4
84	79.7	65.2	97.8



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: 21.782 ug/l

RT: 5.51 min Scan# 537

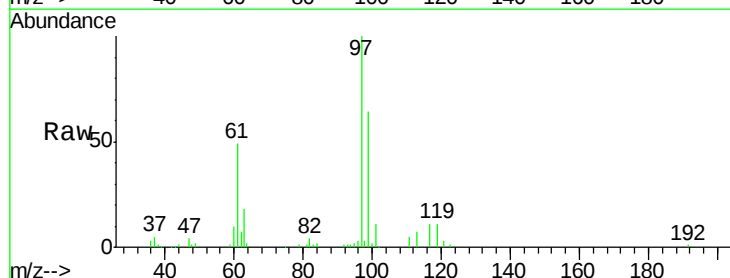
Delta R.T. 0.00 min

Lab File: VD058382.D

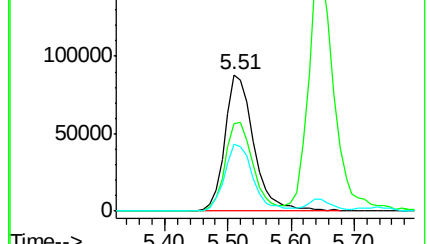
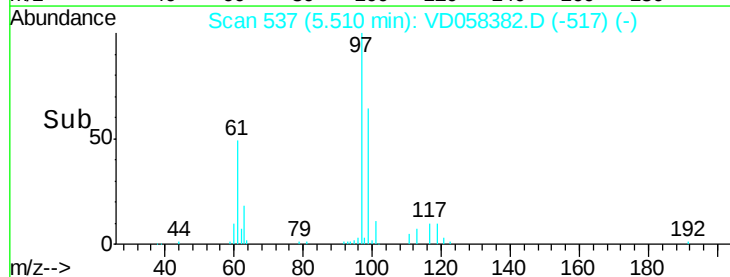
Acq: 24 Jun 2018 20:07

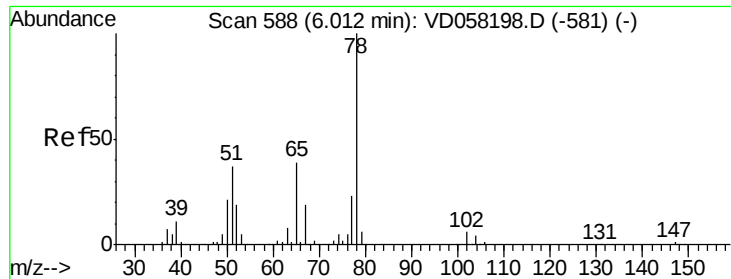
Tgt Ion: 97 Resp: 279422

Ion	Ratio	Lower	Upper
97	100		
99	64.4	52.2	78.4
61	48.9	39.0	58.4



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: 21.782 ug/l

RT: 6.02 min Scan# 589

Delta R.T. 0.01 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

Instrument :

MSVOA_D

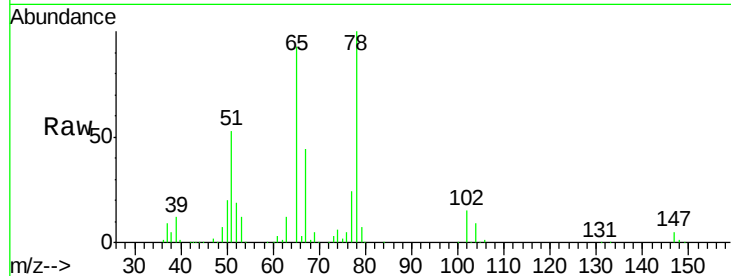
ClientSampleId :

Tot Ion: 65 Resp: 455423

Ion Ratio Lower Upper

65 100

67 46.6 0.0 97.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

6.02

200000

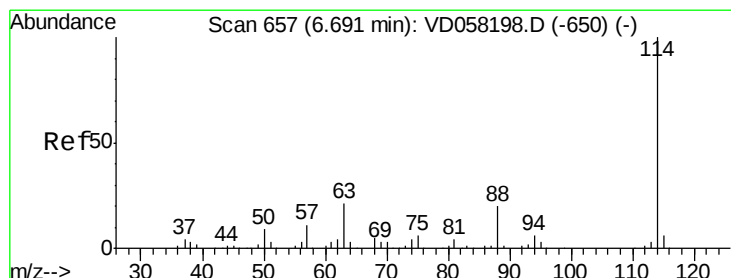
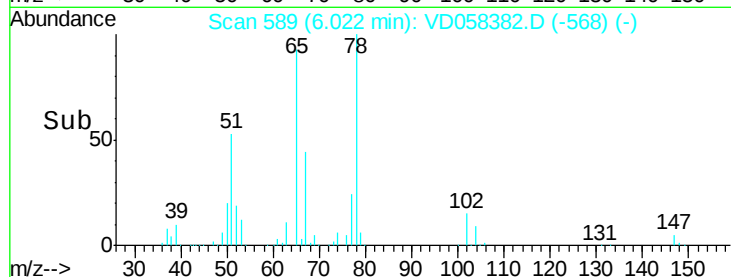
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.70 min Scan# 658

Delta R.T. 0.01 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

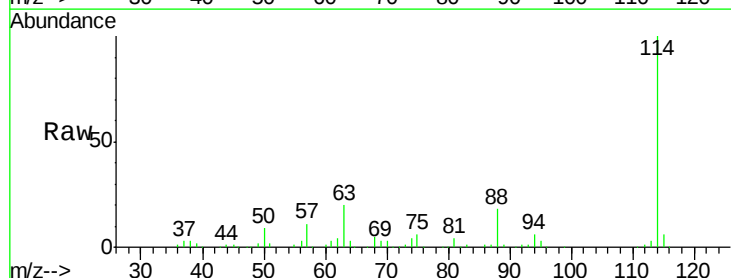
Tgt Ion: 114 Resp: 1104185

Ion Ratio Lower Upper

114 100

63 19.9 0.0 42.6

88 18.3 0.0 40.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

6.70

500000

400000

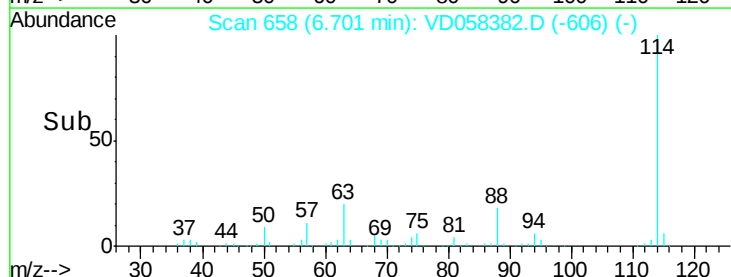
300000

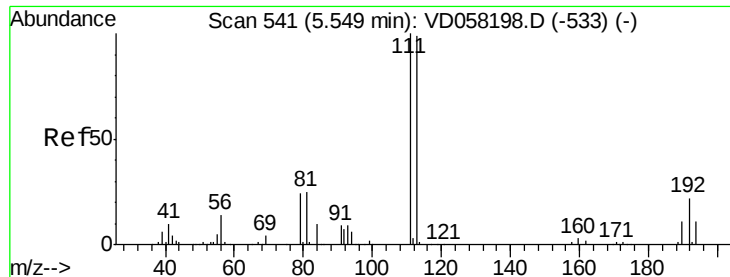
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.56 min Scan# 542

Delta R.T. 0.01 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

Instrument :
MSVOA_D
ClientSampleId :

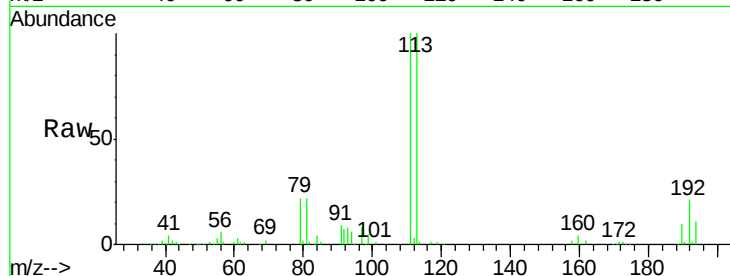
Tot Ion:113 Resp: 470591

Ion Ratio Lower Upper

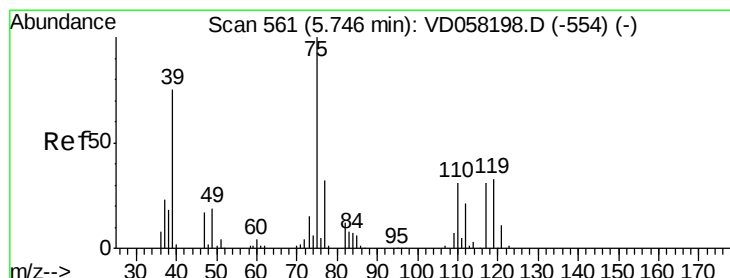
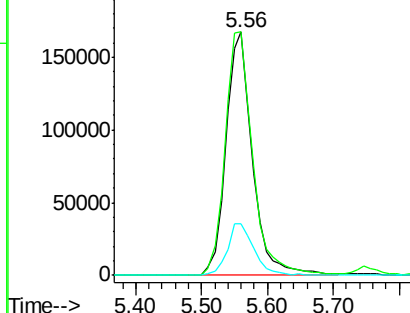
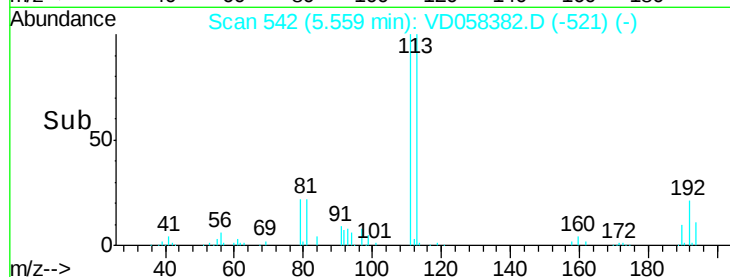
113 100

111 99.9 80.6 121.0

192 21.0 17.8 26.6



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: 21.400 ug/l

RT: 5.75 min Scan# 561

Delta R.T. 0.00 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

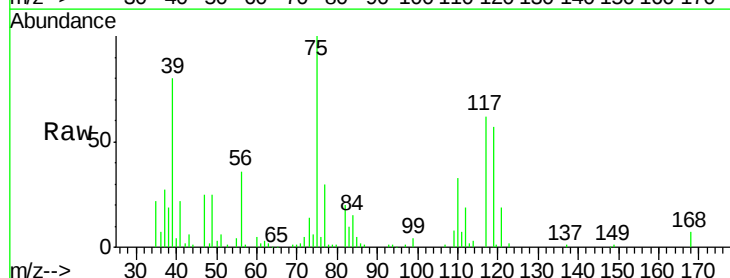
Tgt Ion: 75 Resp: 233763

Ion Ratio Lower Upper

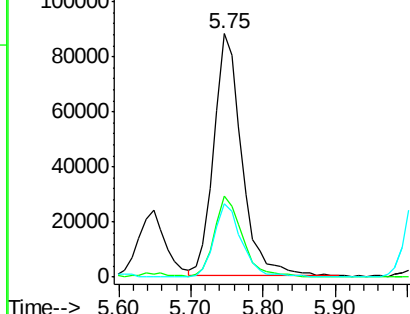
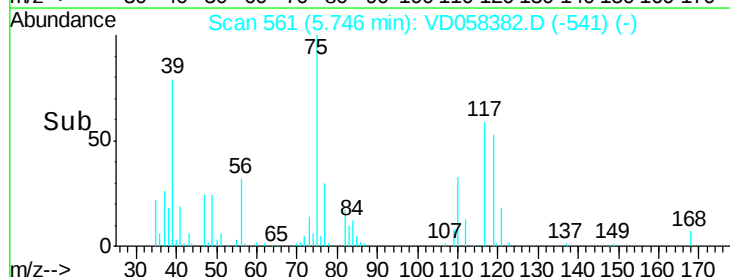
75 100

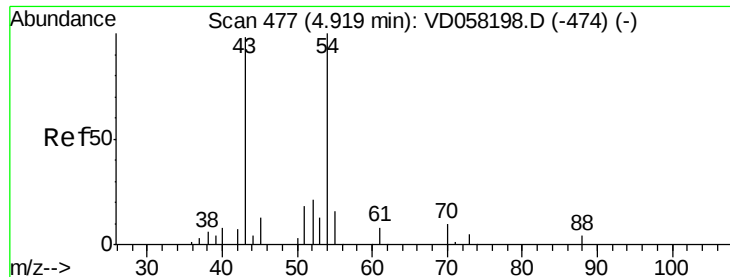
110 33.4 15.4 46.4

77 30.2 25.4 38.2



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





#37

Ethyl Acetate

Concen: 19.554 ug/l

RT: 4.93 min Scan# 478

Delta R.T. 0.01 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

Instrument :

MSVOA_D

ClientSampled :

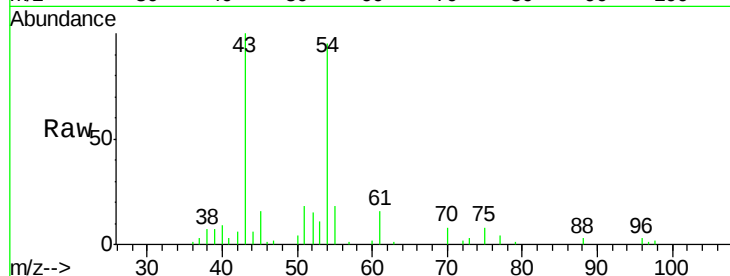
Tot Ion: 43 Resp: 121699

Ion Ratio Lower Upper

43 100

61 15.8 10.3 15.5#

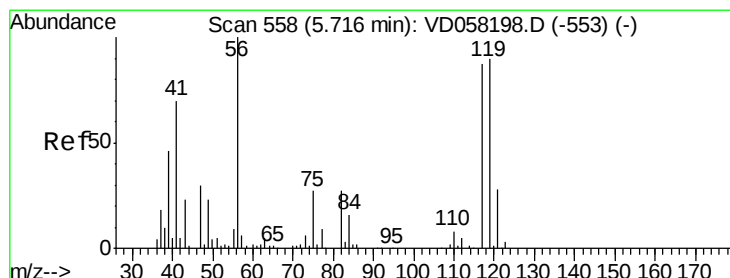
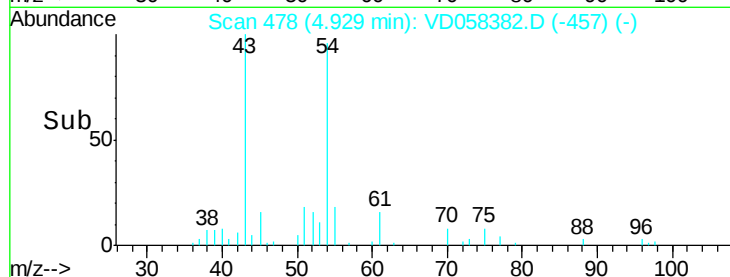
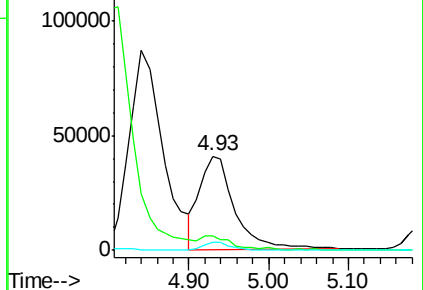
70 8.0 5.7 8.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC



#38

Carbon Tetrachloride

Concen: 22.631 ug/l

RT: 5.73 min Scan# 559

Delta R.T. 0.01 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

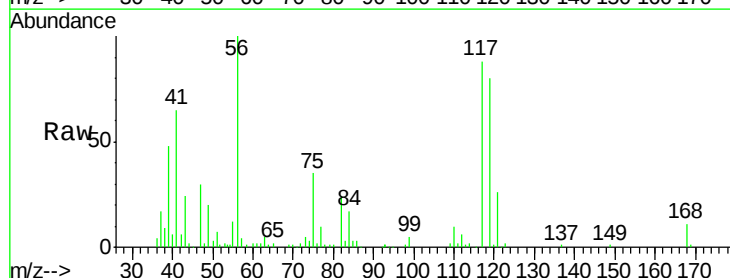
Tgt Ion: 117 Resp: 245625

Ion Ratio Lower Upper

117 100

119 91.2 78.8 118.2

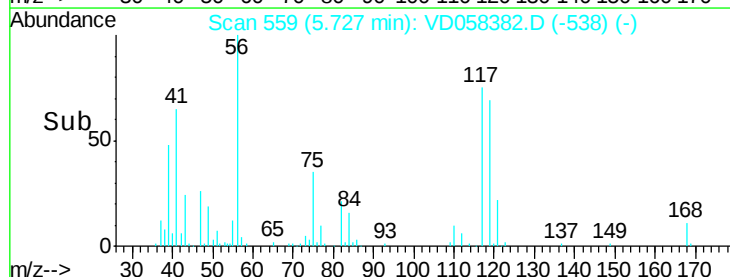
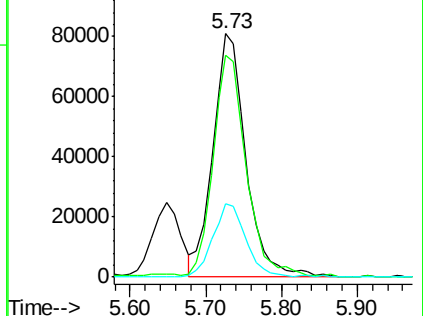
121 30.0 25.0 37.6

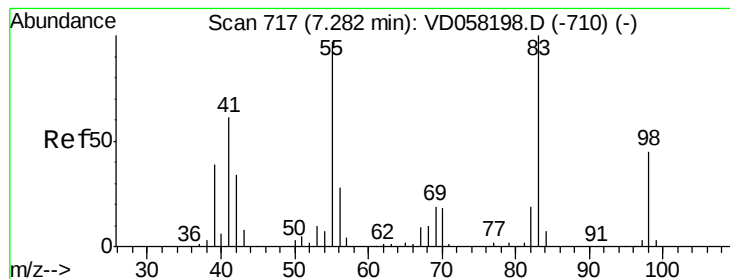


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#39

Methvlcvclohexane

Concen: 21.448 ug/l

RT: 7.29 min Scan# 718

Delta R.T. 0.01 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

Instrument :

MSVOA_D

ClientSampleId :

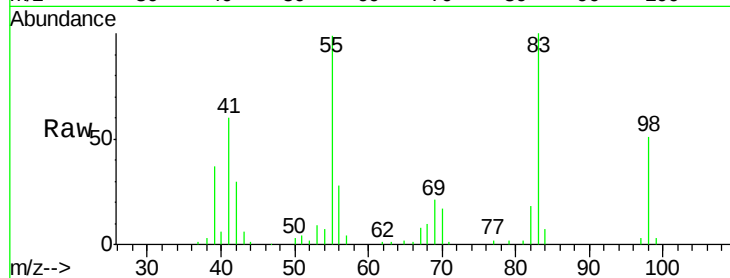
Tot Ion: 83 Resp: 228200

Ion Ratio Lower Upper

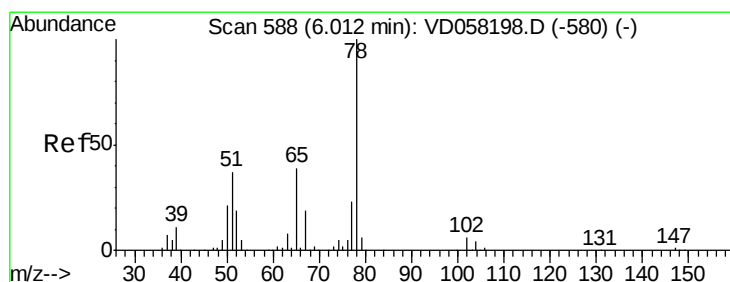
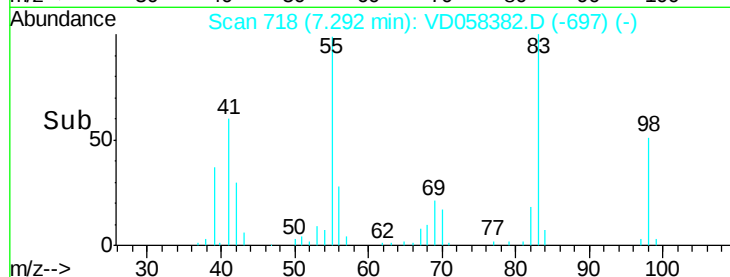
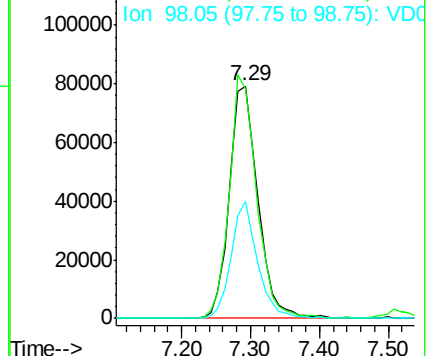
83 100

55 98.9 77.4 116.2

98 50.6 35.9 53.9



Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC



#40

Benzene

Concen: 20.381 ug/l

RT: 6.02 min Scan# 589

Delta R.T. 0.01 min

Lab File: VD058382.D

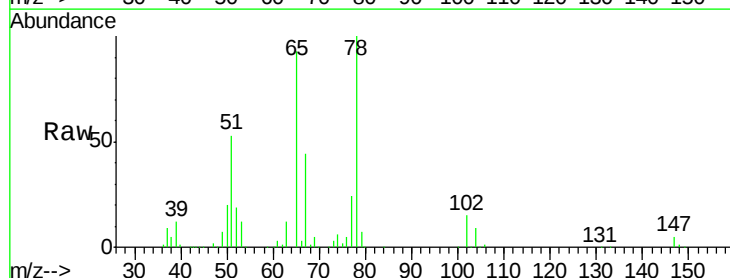
Acq: 24 Jun 2018 20:07

Tgt Ion: 78 Resp: 530331

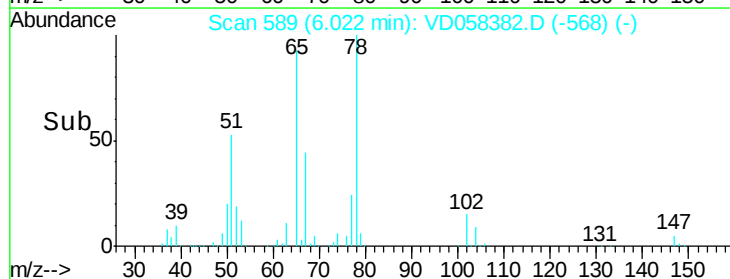
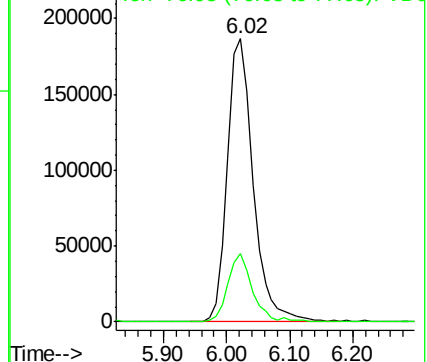
Ion Ratio Lower Upper

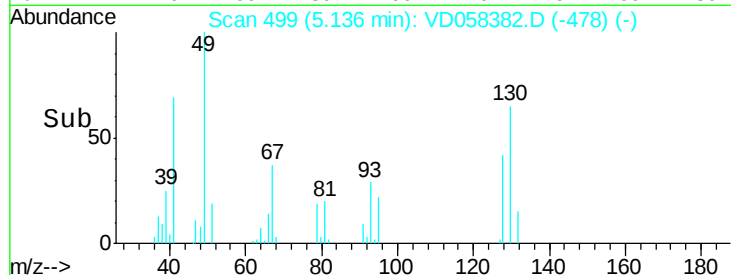
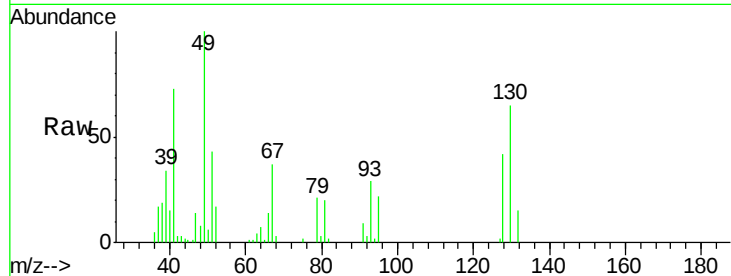
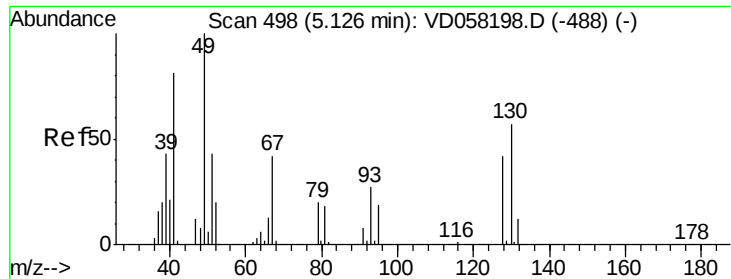
78 100

77 24.3 18.5 27.7



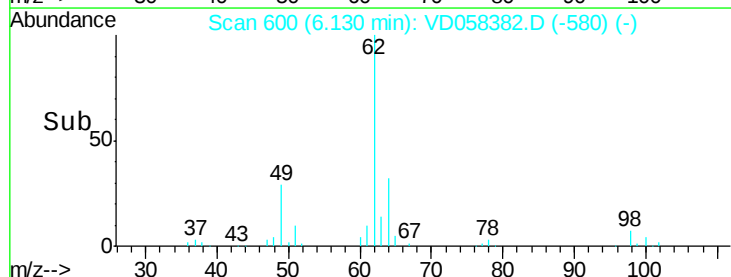
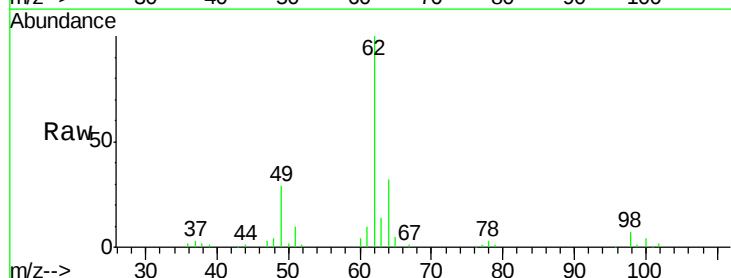
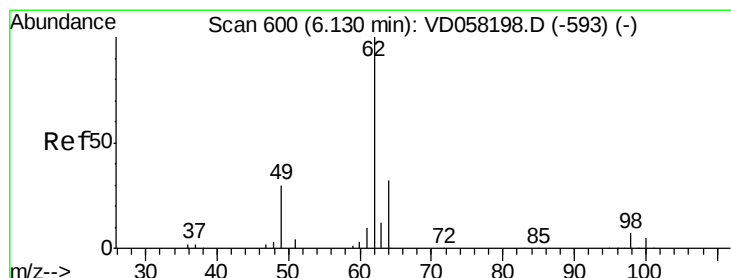
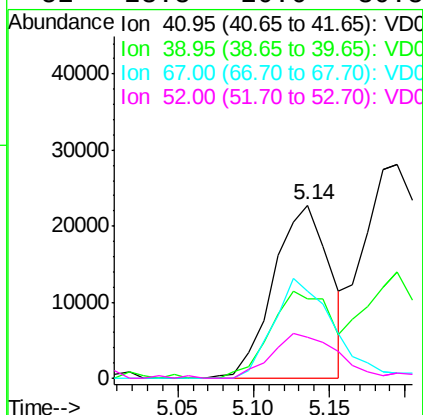
Abundance Ion 77.95 (77.65 to 78.65): VDC
Ion 76.95 (76.65 to 77.65): VDC





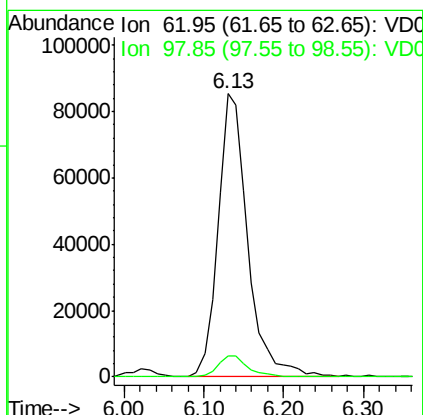
#41
Methacrylonitrile
Concen: 19.668 ug/l
RT: 5.14 min Scan# 499
Delta R.T. 0.01 min
Lab File: VD058382.D
Acq: 24 Jun 2018 20:07

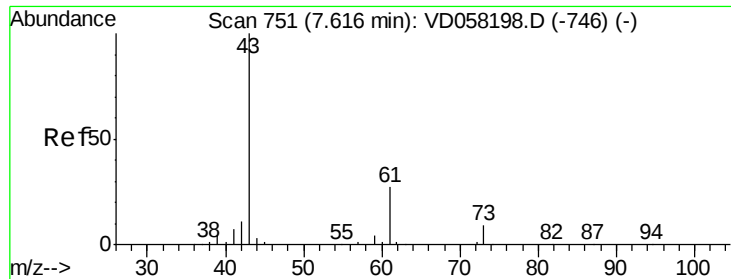
Tot Ion: 41 Resp: 59108
Ion Ratio Lower Upper
41 100
39 46.2 43.4 65.2
67 50.4 41.7 62.5
52 23.8 20.6 30.8



#42
1,2-Dichloroethane
Concen: 21.245 ug/l
RT: 6.13 min Scan# 600
Delta R.T. 0.00 min
Lab File: VD058382.D
Acq: 24 Jun 2018 20:07

Tgt Ion: 62 Resp: 222902
Ion Ratio Lower Upper
62 100
98 7.2 0.0 13.2





#43

Isopropyl Acetate

Concen: 20.715 ug/l

RT: 7.63 min Scan# 752

Delta R.T. 0.01 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

Instrument :

MSVOA_D

ClientSampleId :

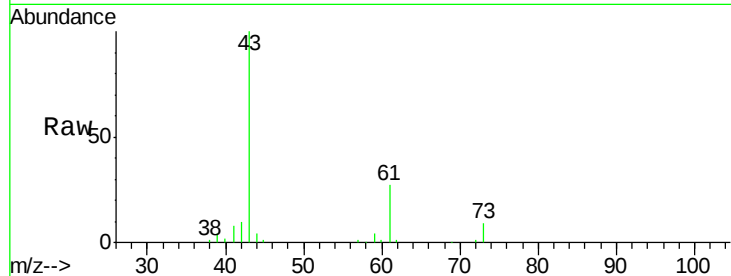
Tot Ion: 43 Resp: 171881

Ion Ratio Lower Upper

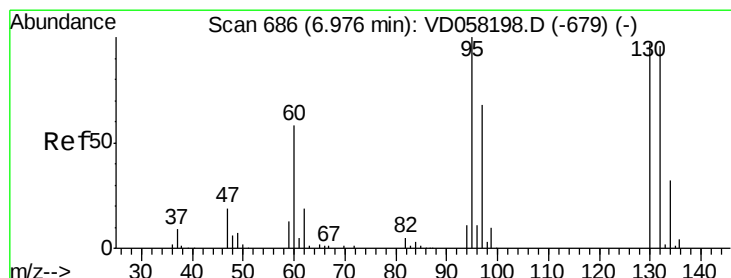
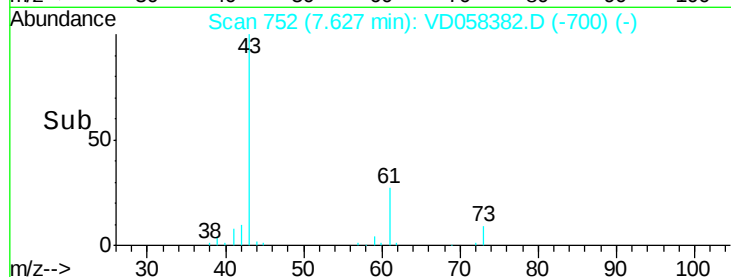
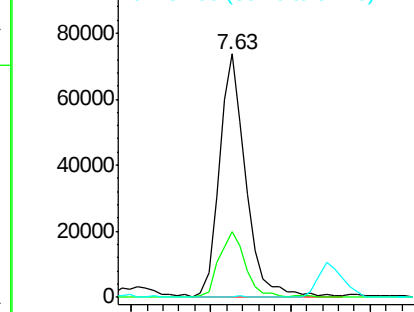
43 100

61 26.9 21.8 32.6

87 0.0 0.3 0.5#



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: 23.592 ug/l

RT: 6.99 min Scan# 687

Delta R.T. 0.01 min

Lab File: VD058382.D

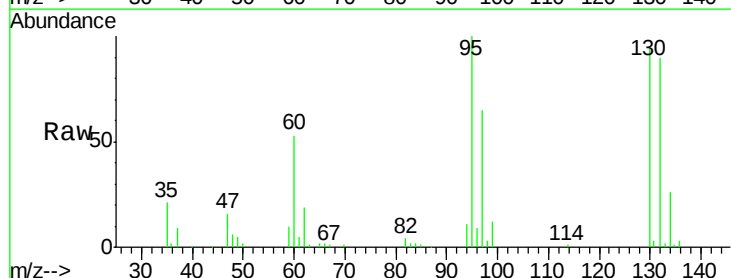
Acq: 24 Jun 2018 20:07

Tgt Ion:130 Resp: 184335

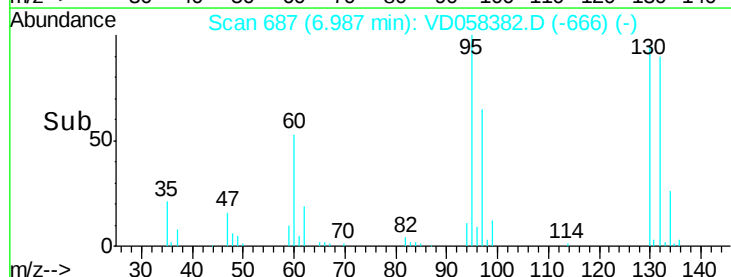
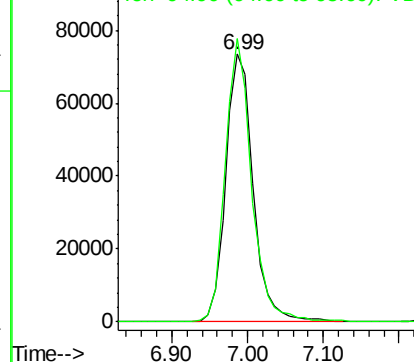
Ion Ratio Lower Upper

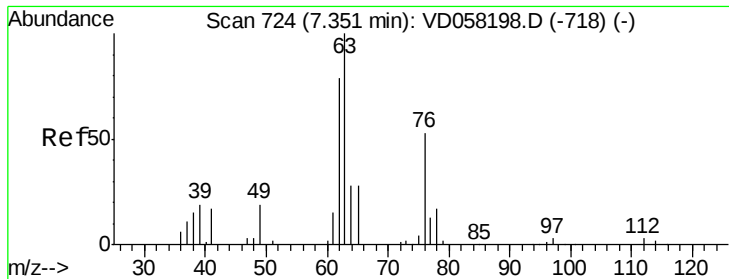
130 100

95 105.8 0.0 205.6



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





#45

1,2-Dichloropropane

Concen: 21.021 ug/l

RT: 7.36 min Scan# 725

Delta R.T. 0.01 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

Instrument :

MSVOA_D

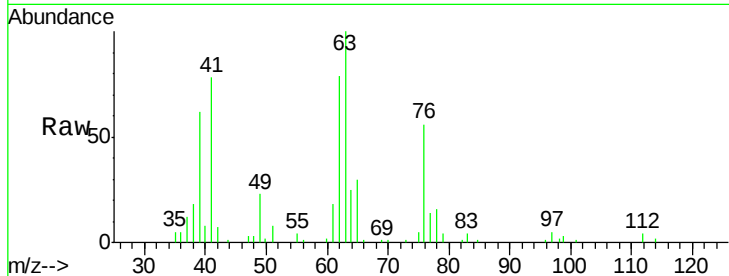
ClientSampled :

Tot Ion: 63 Resp: 147310

Ion Ratio Lower Upper

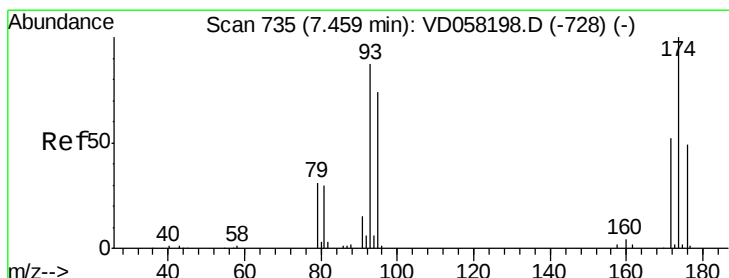
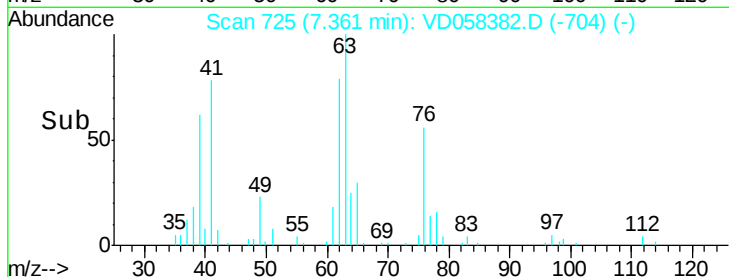
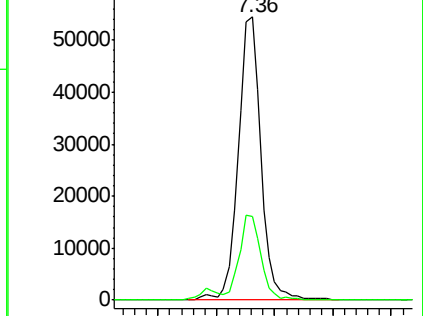
63 100

65 29.6 24.0 36.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 21.792 ug/l

RT: 7.47 min Scan# 736

Delta R.T. 0.01 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

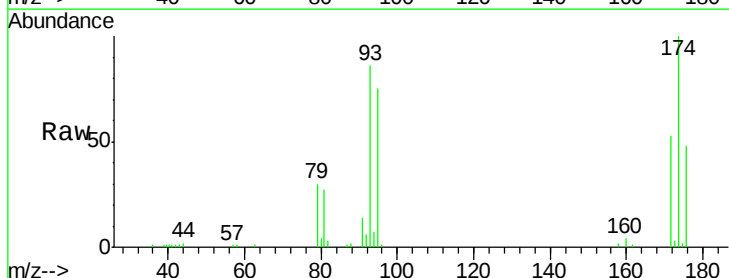
Tgt Ion: 93 Resp: 104247

Ion Ratio Lower Upper

93 100

95 86.7 67.8 101.6

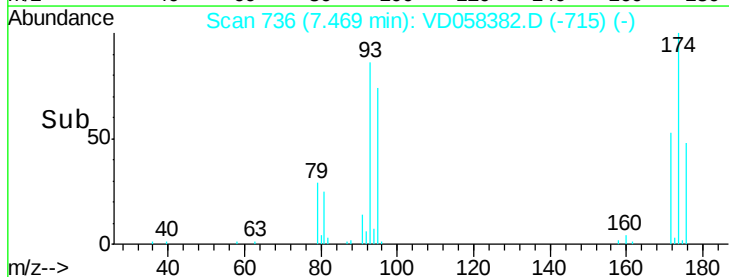
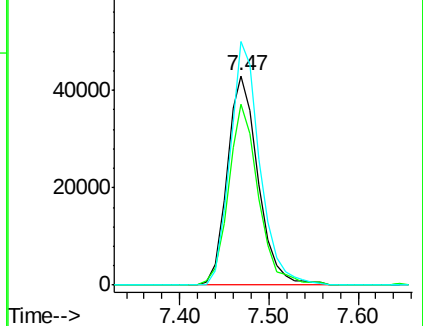
174 116.3 92.2 138.2

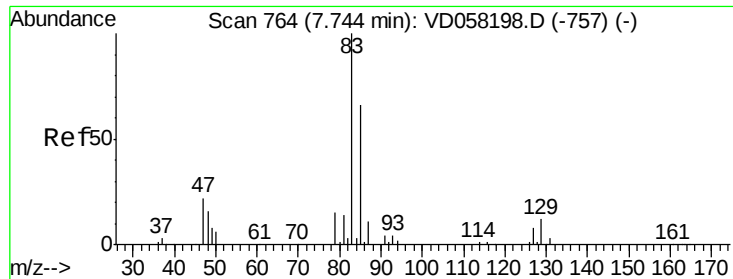


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 20.461 ug/l

RT: 7.75 min Scan# 765

Delta R.T. 0.01 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

Instrument :

MSVOA_D

ClientSampleId :

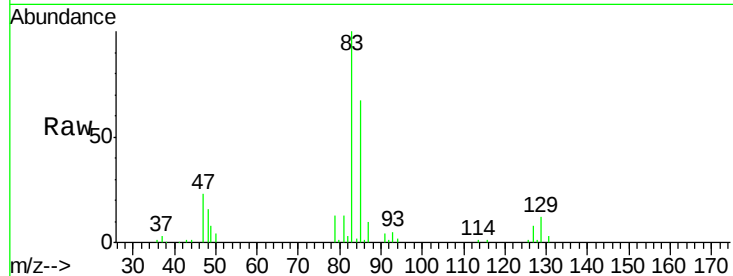
Tot Ion: 83 Resp: 223205

Ion Ratio Lower Upper

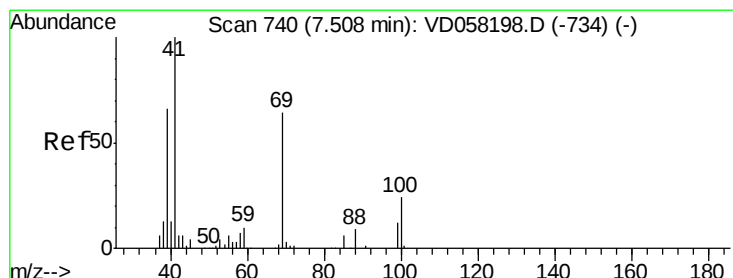
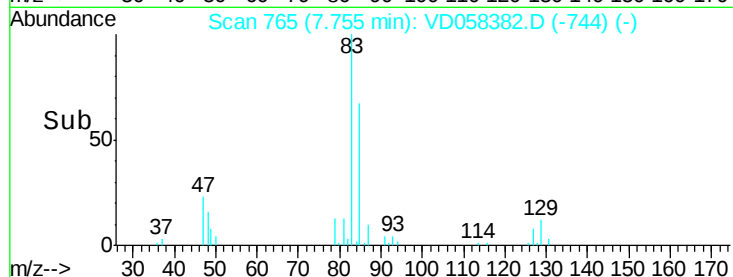
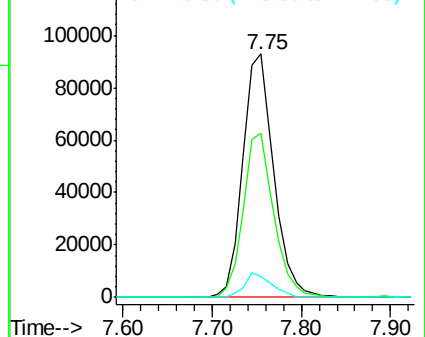
83 100

85 67.4 52.6 78.8

127 8.4 6.2 9.4



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: 19.969 ug/l

RT: 7.51 min Scan# 740

Delta R.T. 0.00 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

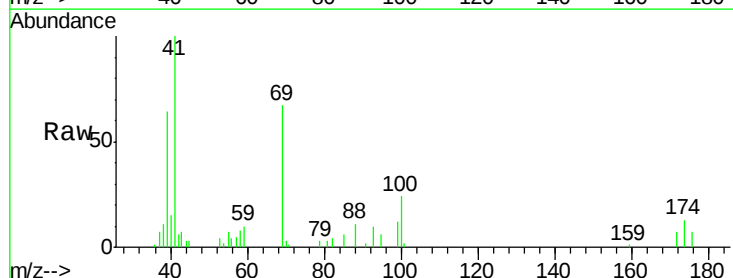
Tgt Ion: 41 Resp: 100703

Ion Ratio Lower Upper

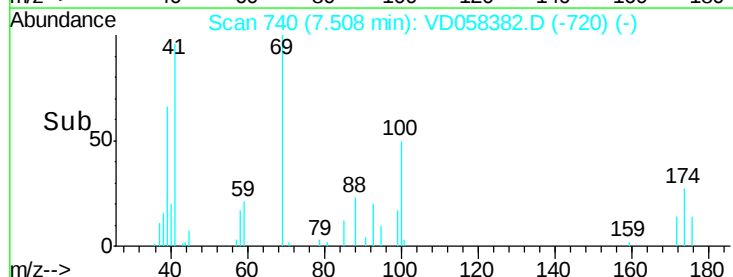
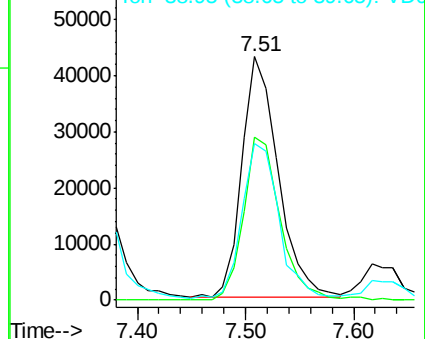
41 100

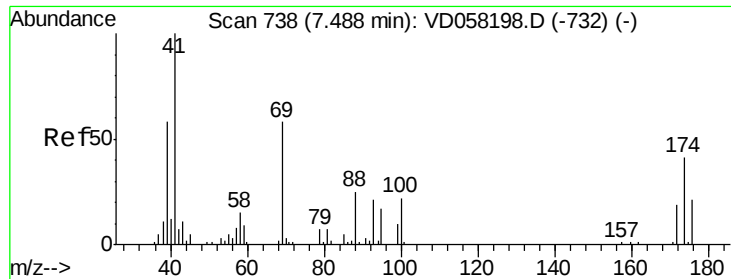
69 66.7 50.7 76.1

39 64.2 52.6 78.8



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

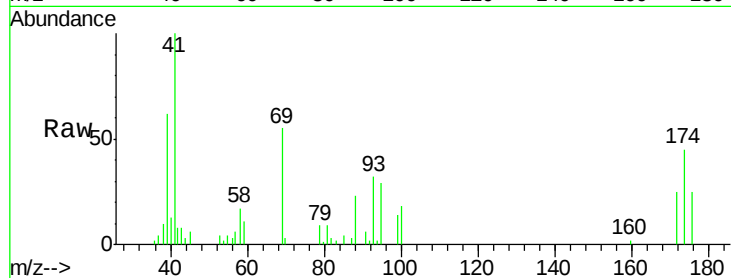




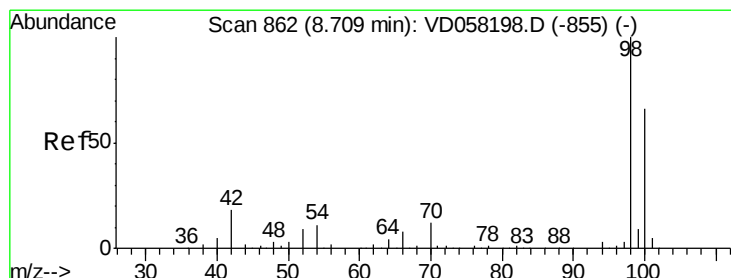
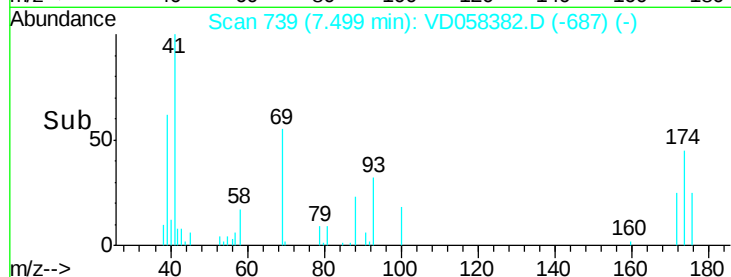
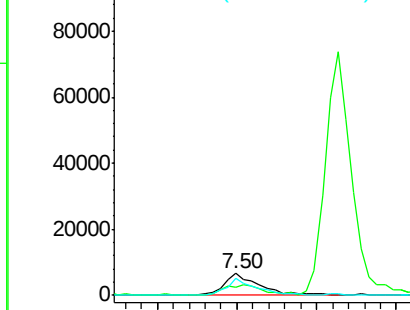
#49
1,4-Dioxane
Concen: 449.766 ug/l
RT: 7.50 min Scan# 739
Delta R.T. 0.01 min
Lab File: VD058382.D
Acq: 24 Jun 2018 20:07

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 88 Resp: 20474
Ion Ratio Lower Upper
88 100
43 36.6 34.2 51.2
58 77.0 47.9 71.9#

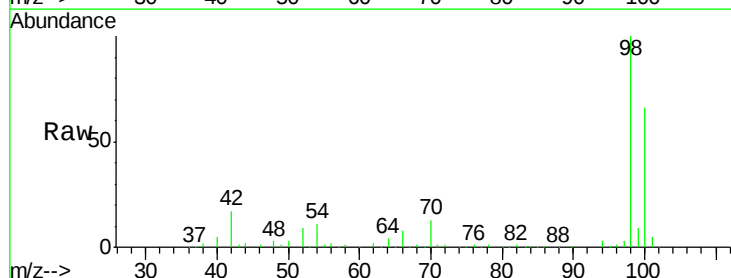


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

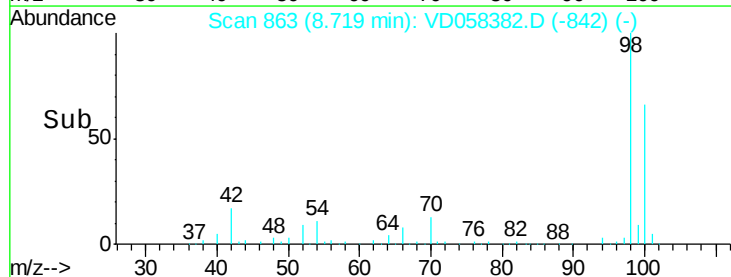
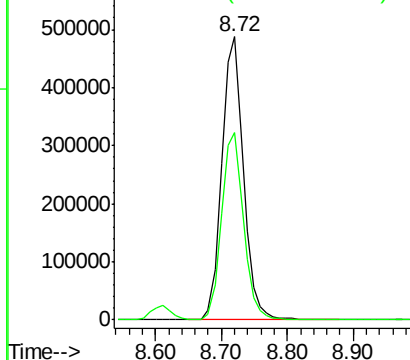


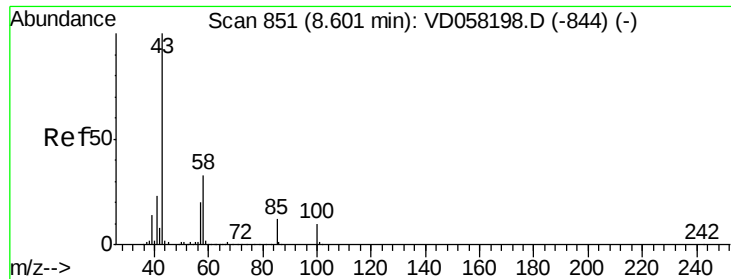
#50
Toluene-d8
Concen: 449.766 ug/l
RT: 8.72 min Scan# 863
Delta R.T. 0.01 min
Lab File: VD058382.D
Acq: 24 Jun 2018 20:07

Tgt Ion: 98 Resp: 1122267
Ion Ratio Lower Upper
98 100
100 66.3 53.6 80.4



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: 104.189 ug/l

RT: 8.60 min Scan# 851

Delta R.T. 0.00 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

Instrument :

MSVOA_D

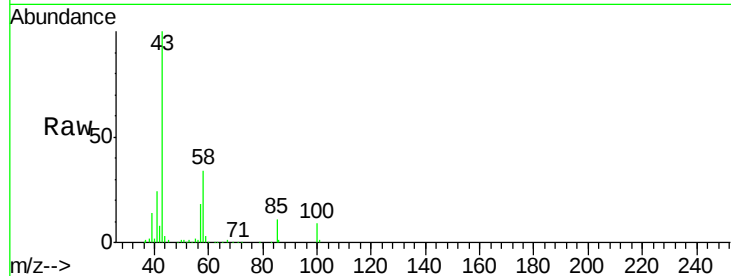
ClientSampleId :

Tot Ion: 43 Resp: 563891

Ion Ratio Lower Upper

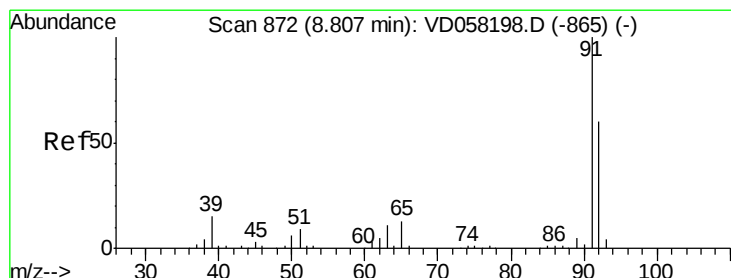
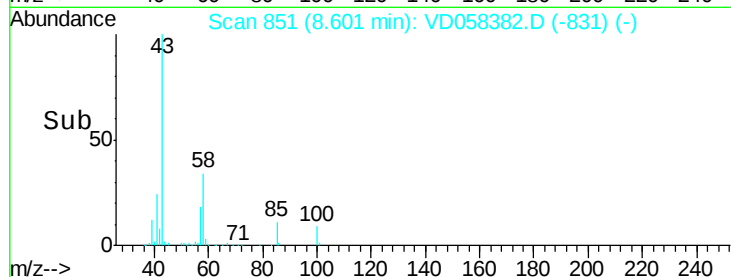
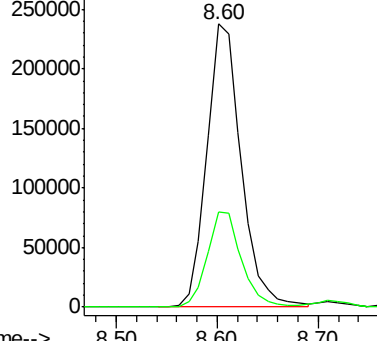
43 100

58 33.6 26.7 40.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 21.830 ug/l

RT: 8.81 min Scan# 872

Delta R.T. 0.00 min

Lab File: VD058382.D

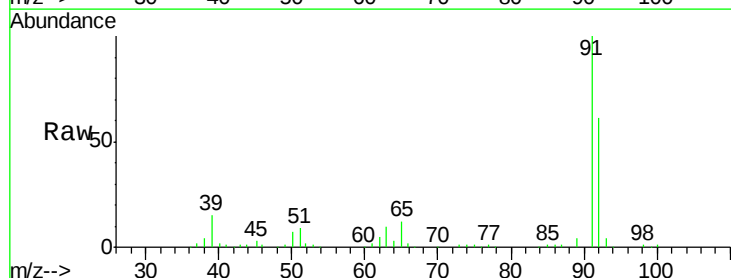
Acq: 24 Jun 2018 20:07

Tgt Ion: 92 Resp: 323437

Ion Ratio Lower Upper

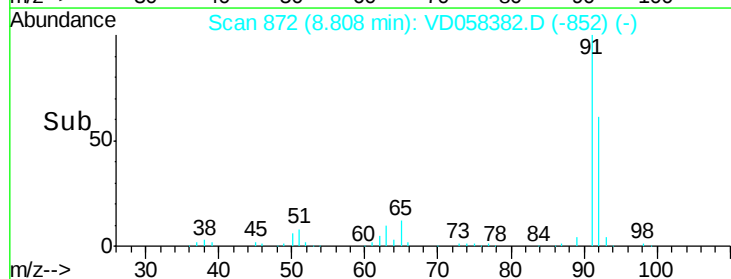
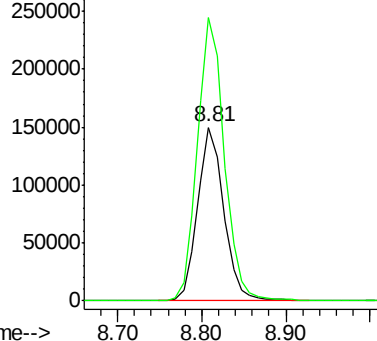
92 100

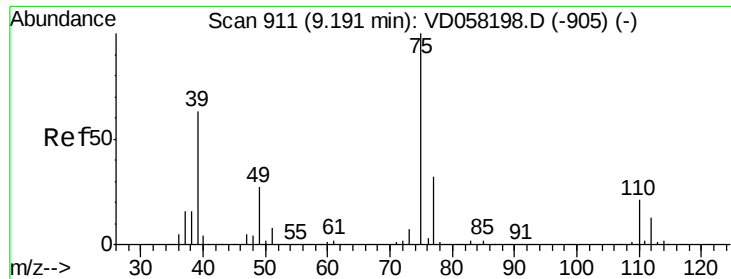
91 163.0 133.2 199.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

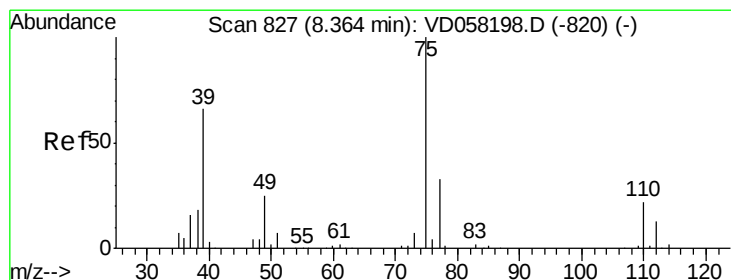
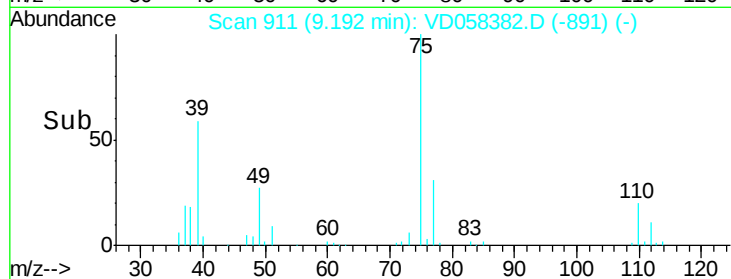
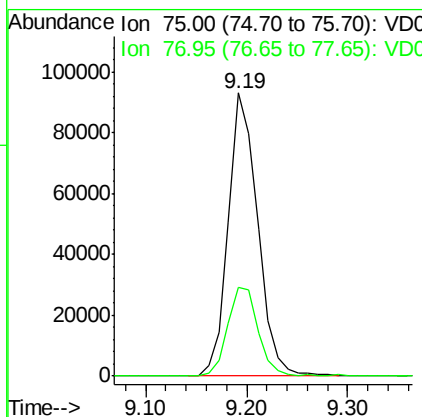
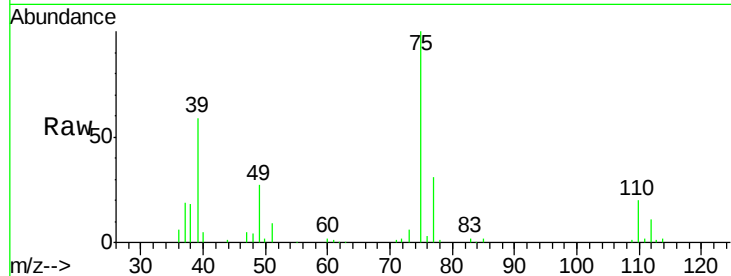




#53
 t-1,3-Dichloropropene
 Concen: 19.902 ug/l
 RT: 9.19 min Scan# 911
 Delta R.T. 0.00 min
 Lab File: VD058382.D
 Acq: 24 Jun 2018 20:07

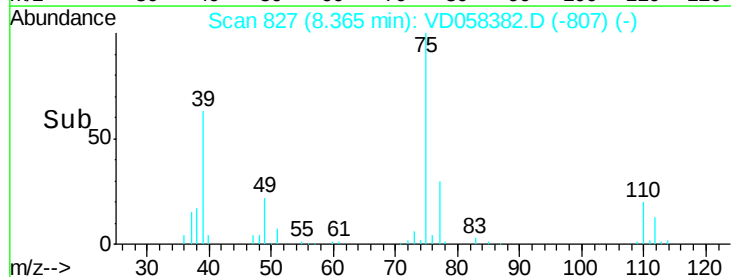
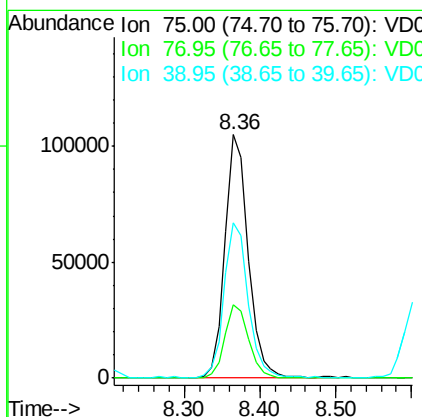
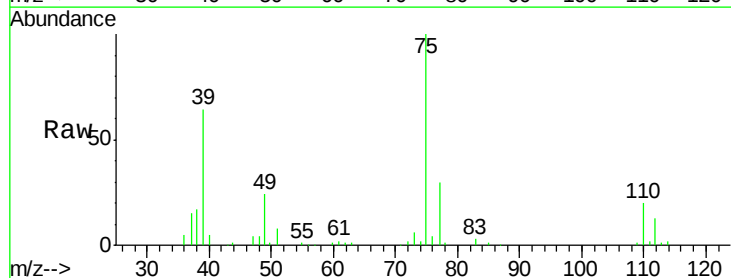
Instrument :
 MSVOA_D
 ClientSampleId :

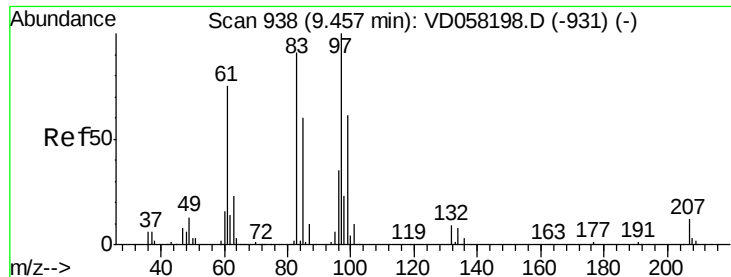
Tot Ion: 75 Resp: 188763
 Ion Ratio Lower Upper
 75 100
 77 31.3 25.8 38.8



#54
 cis-1,3-Dichloropropene
 Concen: 20.150 ug/l
 RT: 8.36 min Scan# 827
 Delta R.T. 0.00 min
 Lab File: VD058382.D
 Acq: 24 Jun 2018 20:07

Tgt Ion: 75 Resp: 224055
 Ion Ratio Lower Upper
 75 100
 77 30.1 26.5 39.7
 39 63.5 52.9 79.3





#55

1,1,2-Trichloroethane

Concen: 20.562 ug/l

RT: 9.47 min Scan# 939

Delta R.T. 0.01 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

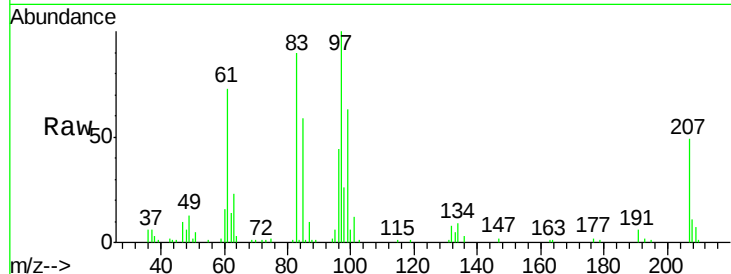
Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 97 Resp: 107785

Ion	Ratio	Lower	Upper
97	100		
83	89.9	72.9	109.3
85	59.4	48.2	72.4
99	62.8	48.9	73.3

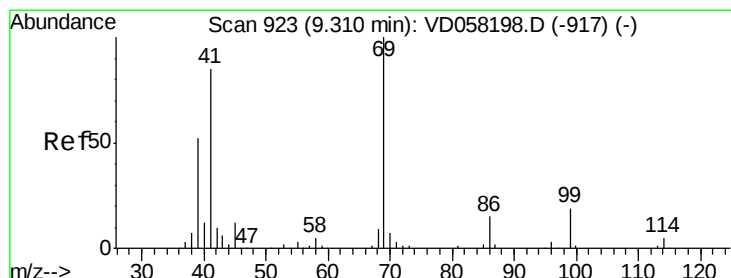
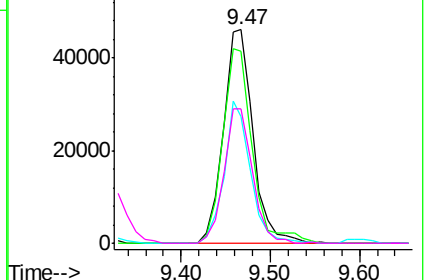
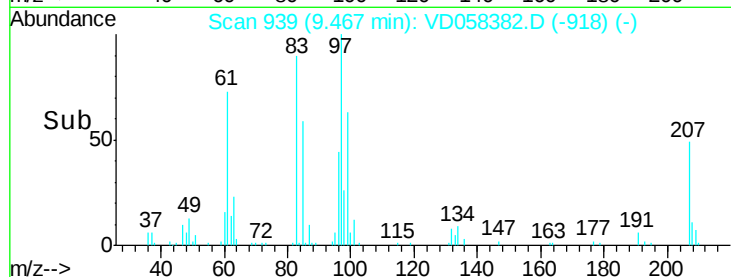


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#56

Ethyl methacrylate

Concen: 20.730 ug/l

RT: 9.32 min Scan# 924

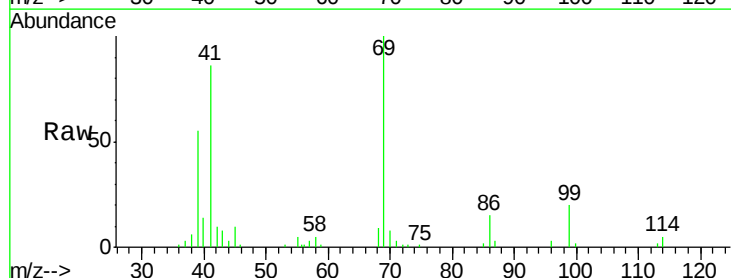
Delta R.T. 0.01 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

Tgt Ion: 69 Resp: 129961

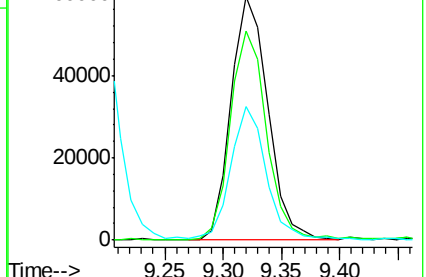
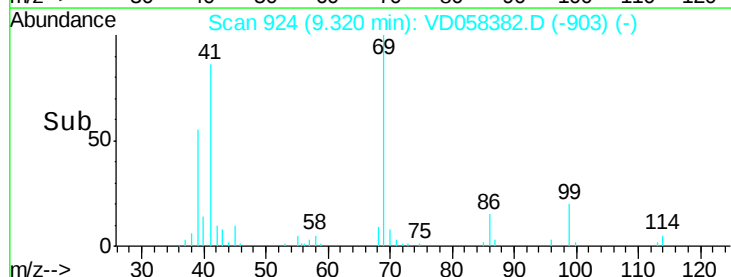
Ion	Ratio	Lower	Upper
69	100		
41	86.0	67.6	101.4
39	54.9	42.2	63.2

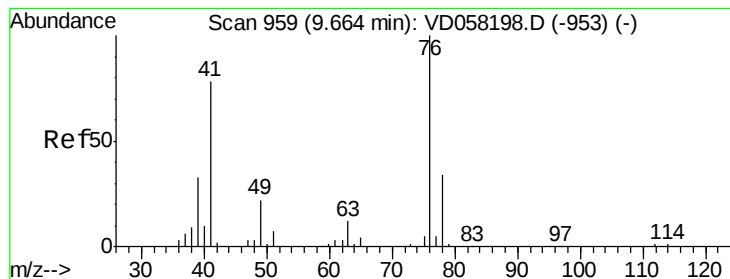


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 20.412 ug/l

RT: 9.67 min Scan# 960

Delta R.T. 0.01 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

Instrument :

MSVOA_D

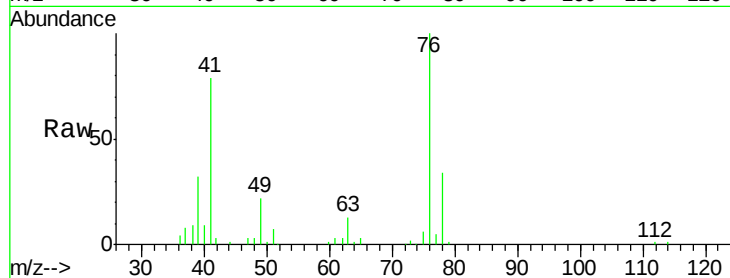
ClientSampleId :

Tot Ion: 76 Resp: 180239

Ion Ratio Lower Upper

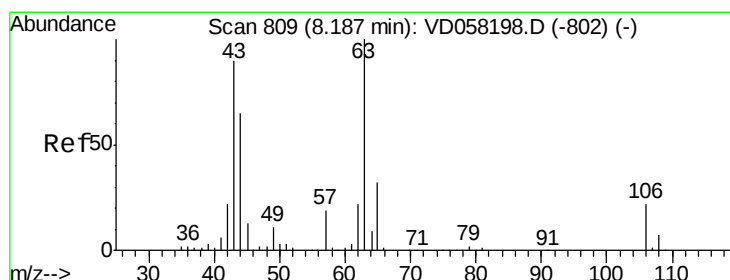
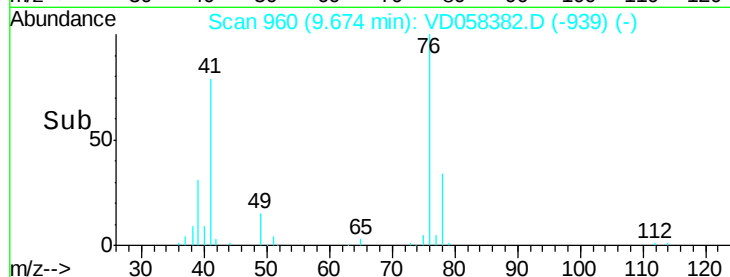
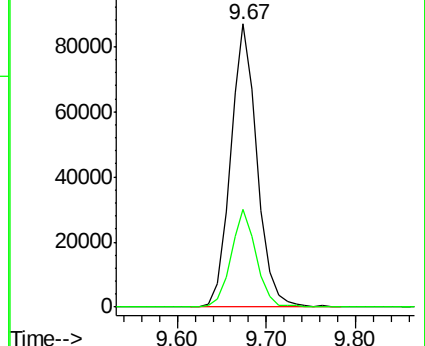
76 100

78 34.5 27.0 40.6



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 107.426 ug/l

RT: 8.20 min Scan# 810

Delta R.T. 0.01 min

Lab File: VD058382.D

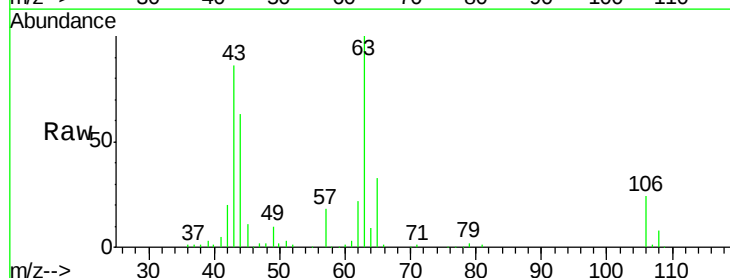
Acq: 24 Jun 2018 20:07

Tgt Ion: 63 Resp: 333403

Ion Ratio Lower Upper

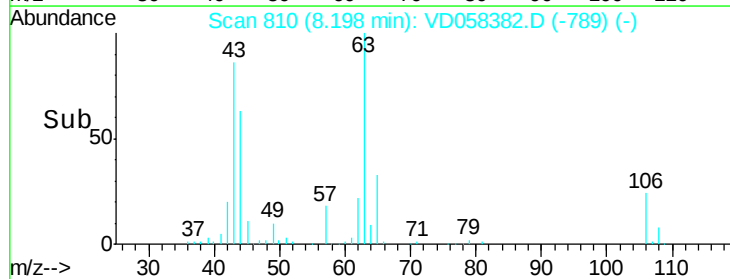
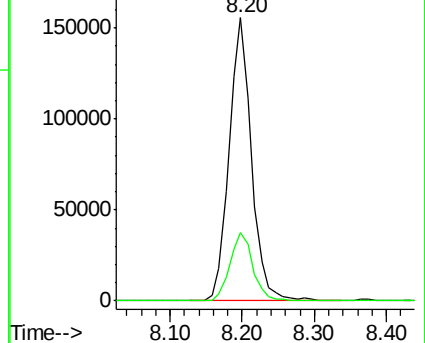
63 100

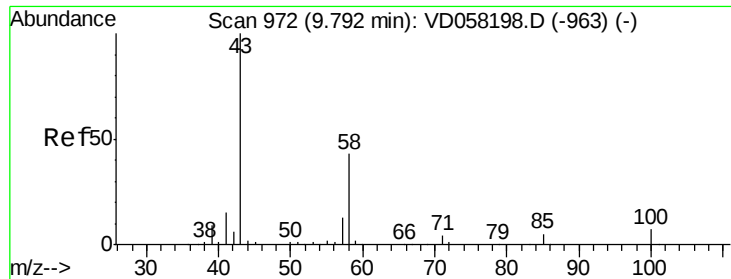
106 24.0 18.0 27.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

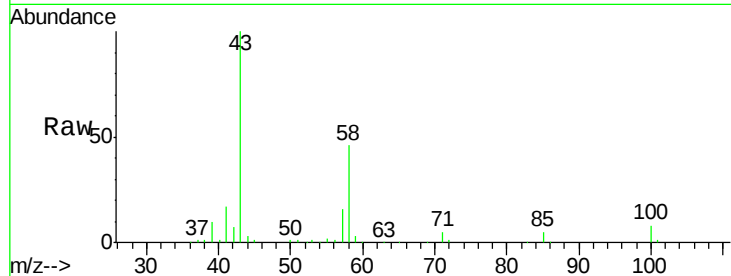




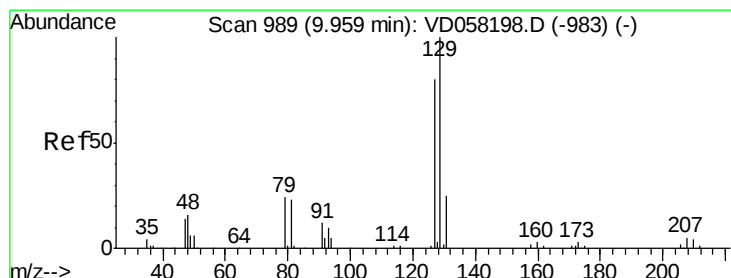
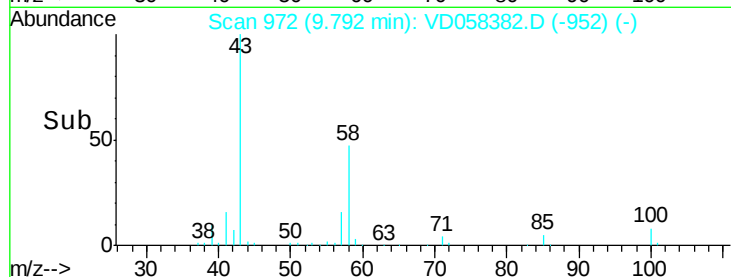
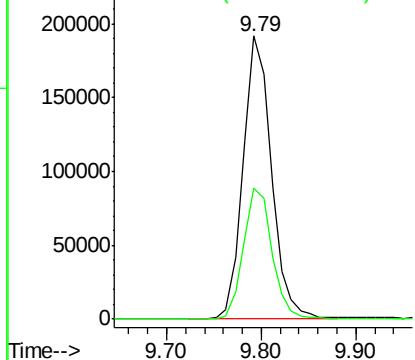
#59
2-Hexanone
Concen: 102.086 ug/l
RT: 9.79 min Scan# 972
Delta R.T. 0.00 min
Lab File: VD058382.D
Acq: 24 Jun 2018 20:07

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 399231
Ion Ratio Lower Upper
43 100
58 46.5 21.7 65.1

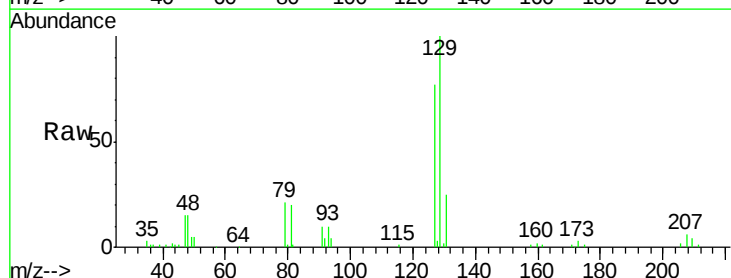


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

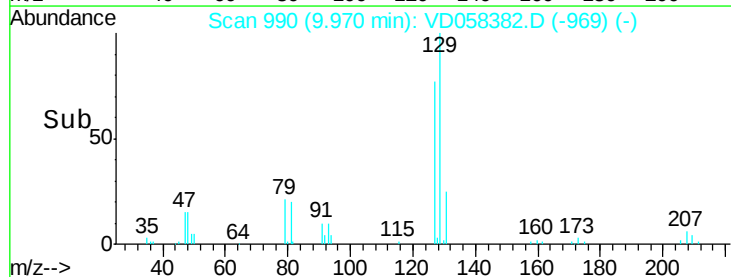
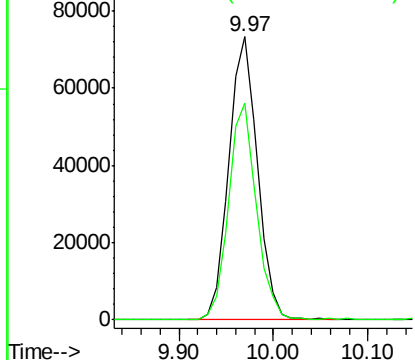


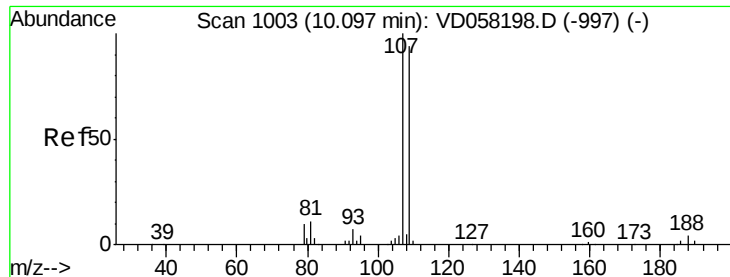
#60
Dibromochloromethane
Concen: 21.598 ug/l
RT: 9.97 min Scan# 990
Delta R.T. 0.01 min
Lab File: VD058382.D
Acq: 24 Jun 2018 20:07

Tgt Ion:129 Resp: 153651
Ion Ratio Lower Upper
129 100
127 76.6 39.8 119.4



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V





#61

1,2-Dibromoethane

Concen: 21.235 ug/l

RT: 10.11 min Scan# 1004

Delta R.T. 0.01 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

Instrument :

MSVOA_D

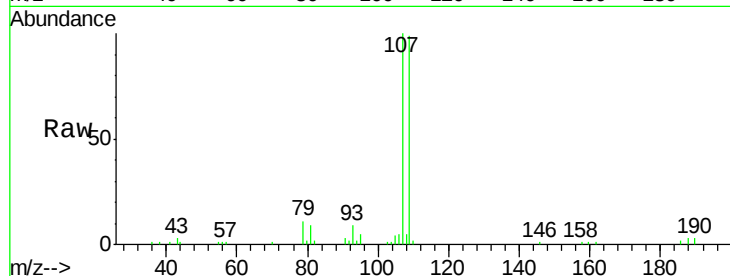
ClientSampleId :

Tot Ion: 107 Resp: 121835

Ion Ratio Lower Upper

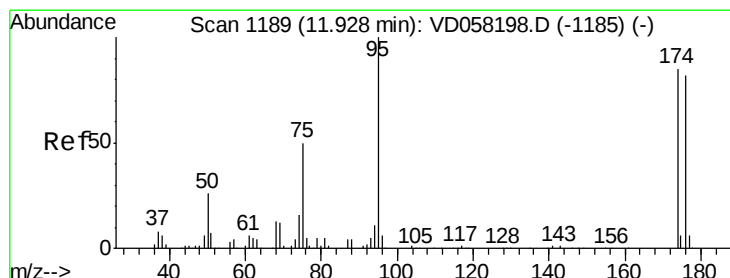
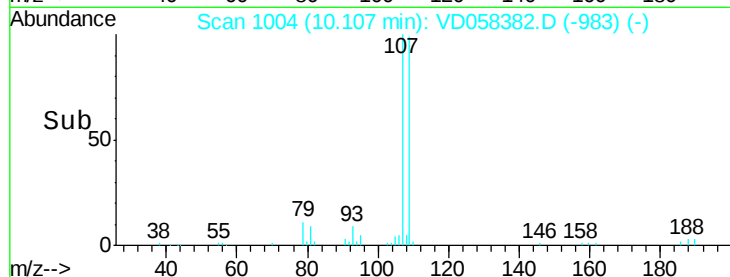
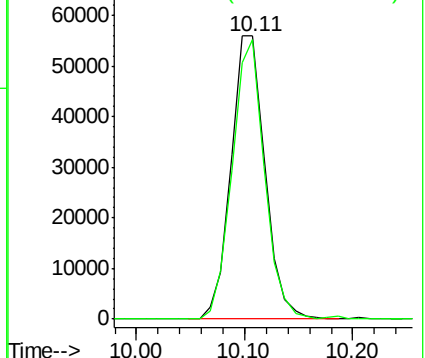
107 100

109 98.7 74.8 112.2



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 21.235 ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.01 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

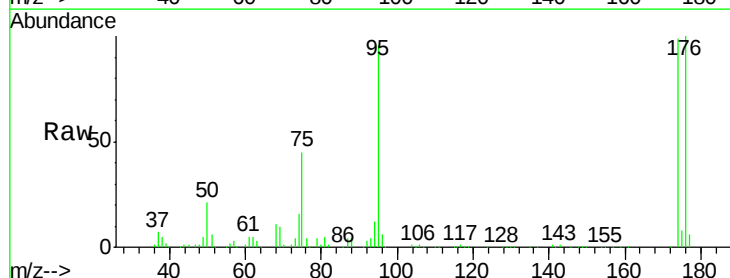
Tgt Ion: 95 Resp: 456093

Ion Ratio Lower Upper

95 100

174 103.8 0.0 170.2

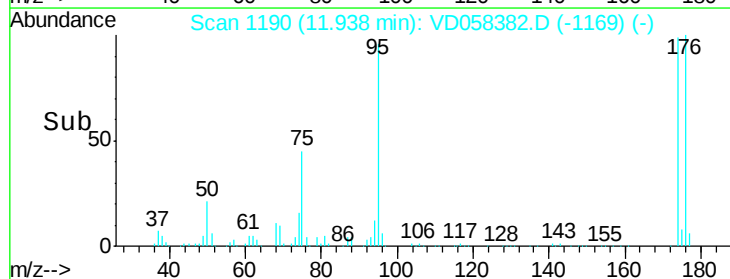
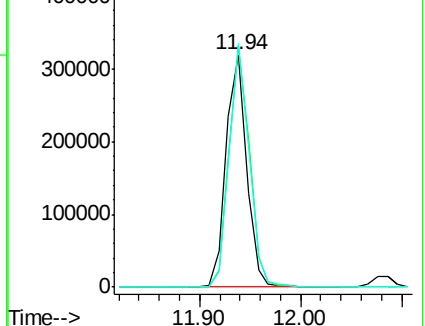
176 104.6 0.0 164.6

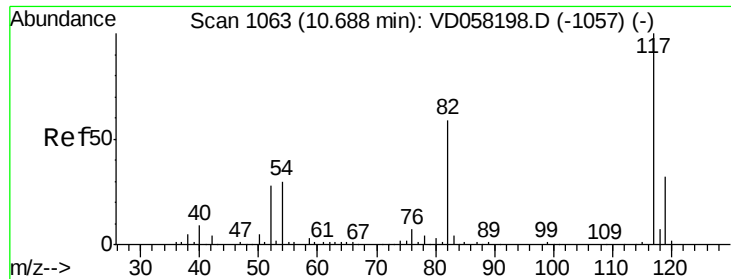


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

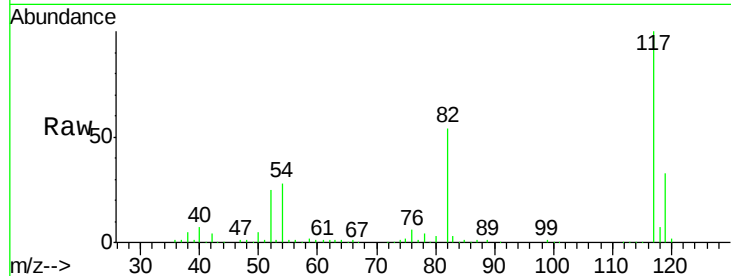




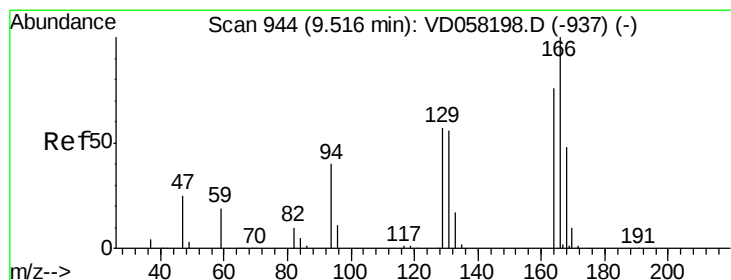
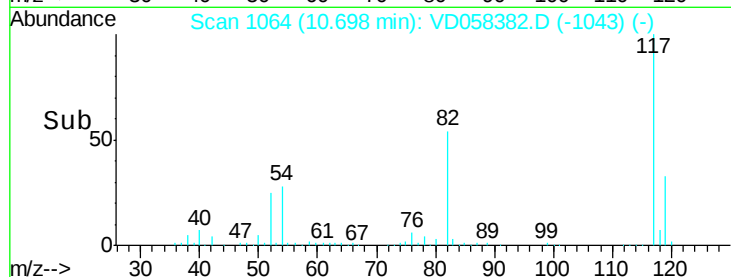
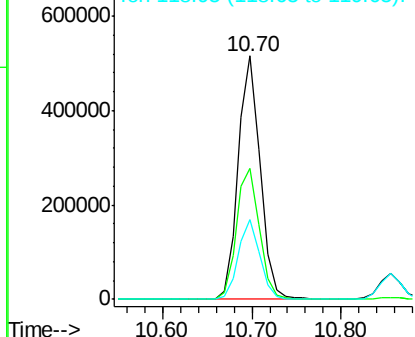
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.70 min Scan# 1064
Delta R.T. 0.01 min
Lab File: VD058382.D
Acq: 24 Jun 2018 20:07

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 892270
Ion Ratio Lower Upper
117 100
82 53.8 47.0 70.6
119 33.0 25.3 37.9

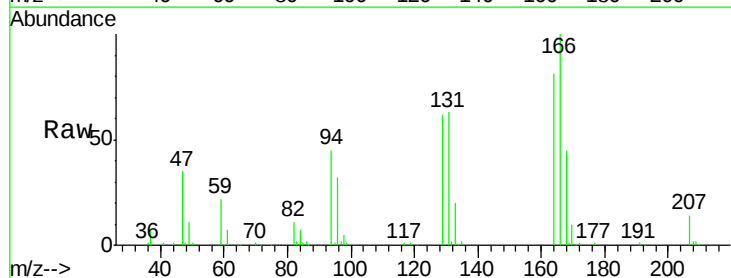


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

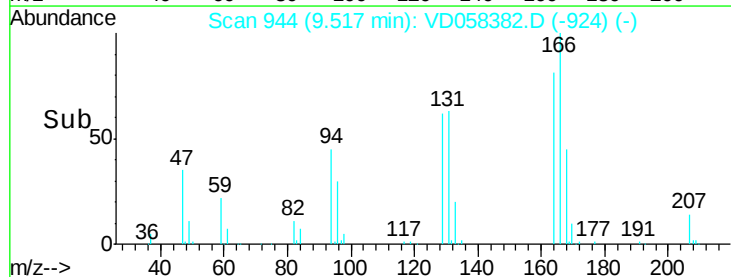
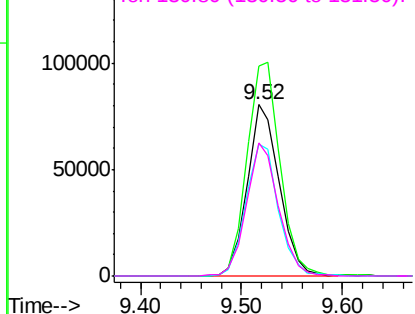


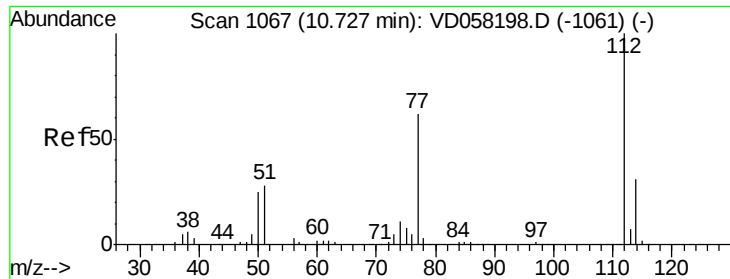
#64
Tetrachloroethene
Concen: 23.777 ug/l
RT: 9.52 min Scan# 944
Delta R.T. 0.00 min
Lab File: VD058382.D
Acq: 24 Jun 2018 20:07

Tgt Ion:164 Resp: 178514
Ion Ratio Lower Upper
164 100
166 122.9 105.4 158.0
129 76.8 59.6 89.4
131 77.9 59.4 89.2



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

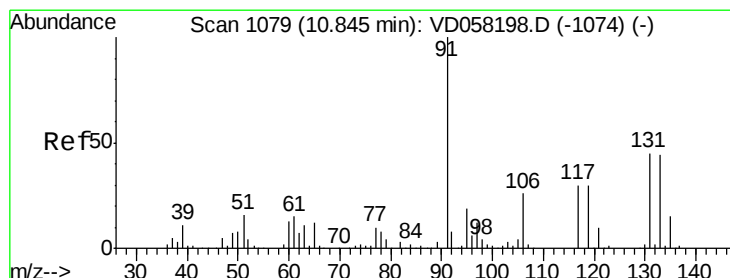
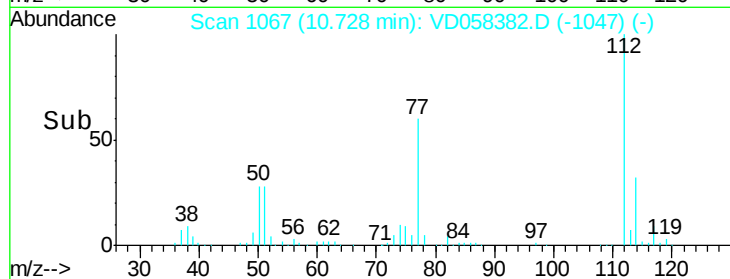
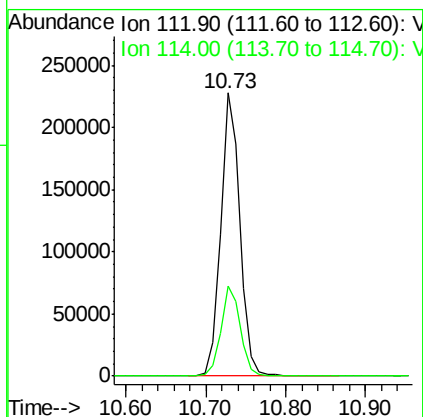
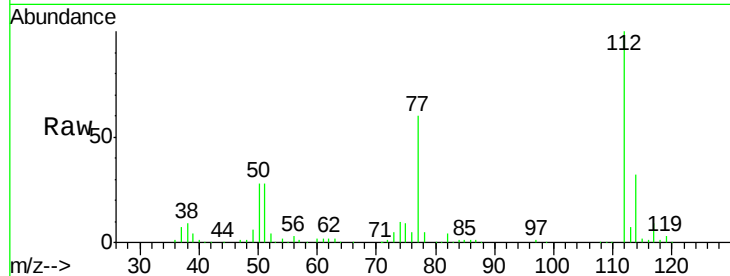




#65
Chlorobenzene
Concen: 23.145 ug/l
RT: 10.73 min Scan# 1067
Delta R.T. 0.00 min
Lab File: VD058382.D
Acq: 24 Jun 2018 20:07

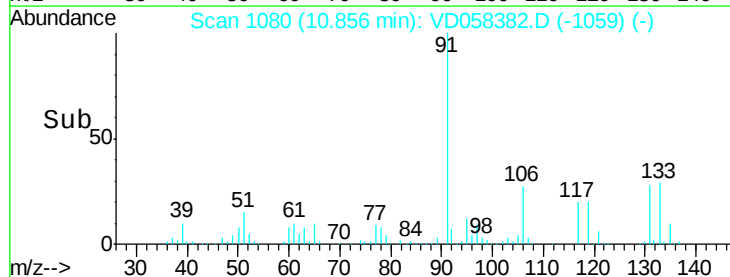
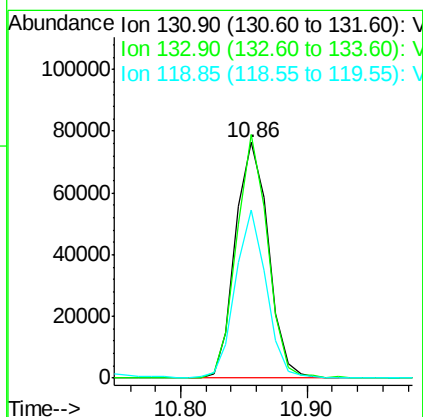
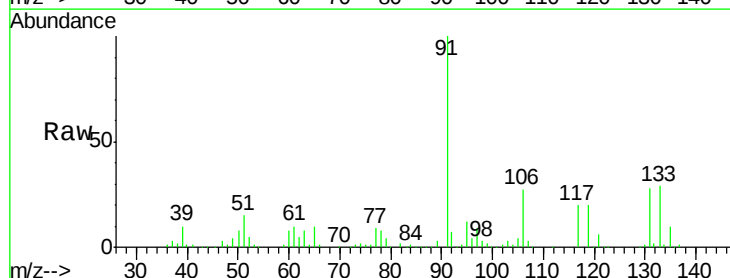
Instrument :
MSVOA_D
ClientSampled :

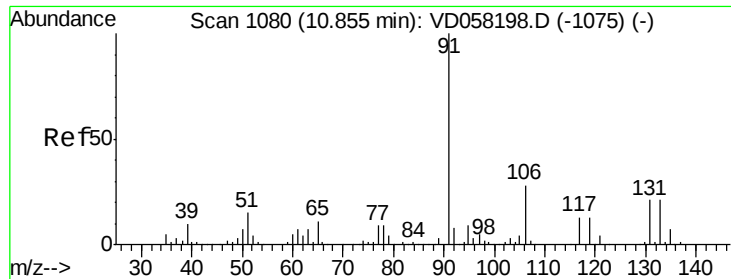
Tot Ion:112 Resp: 386293
Ion Ratio Lower Upper
112 100
114 31.8 25.0 37.4



#66
1,1,1,2-Tetrachloroethane
Concen: 21.488 ug/l
RT: 10.86 min Scan# 1080
Delta R.T. 0.01 min
Lab File: VD058382.D
Acq: 24 Jun 2018 20:07

Tgt Ion:131 Resp: 138406
Ion Ratio Lower Upper
131 100
133 103.2 48.6 145.9
119 71.4 33.0 99.0

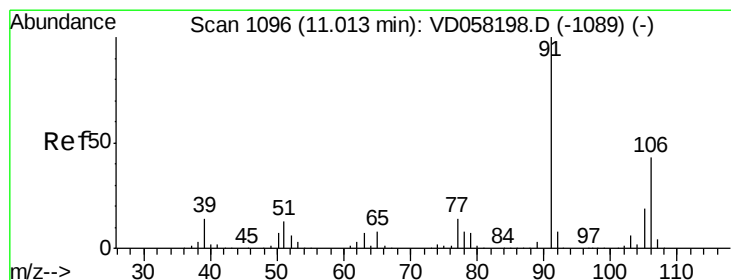
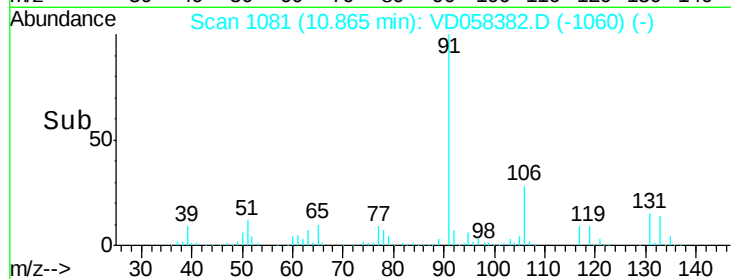
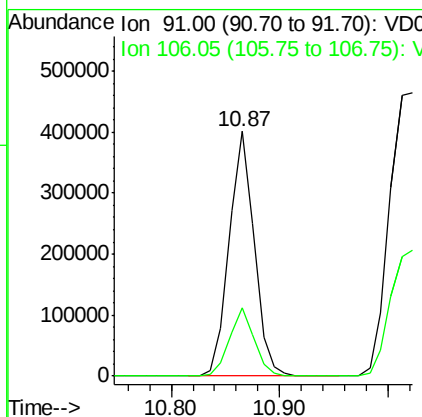
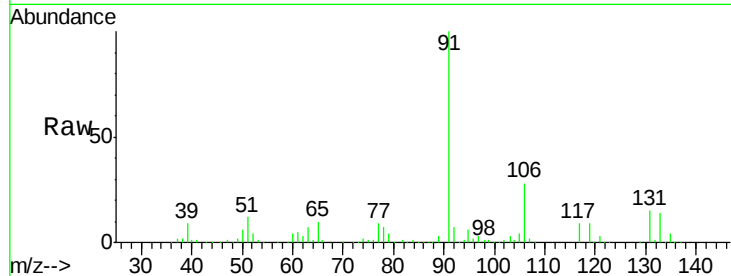




#67
Ethvl Benzene
Concen: 21.998 ug/l
RT: 10.87 min Scan# 1081
Delta R.T. 0.01 min
Lab File: VD058382.D
Acq: 24 Jun 2018 20:07

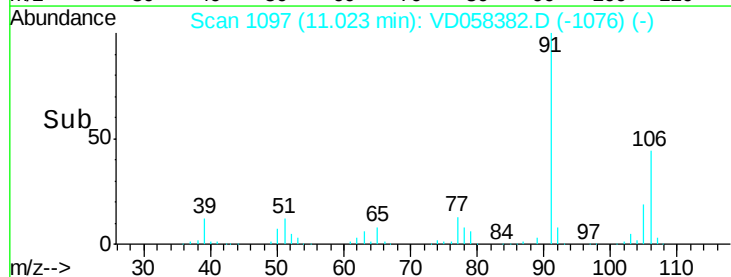
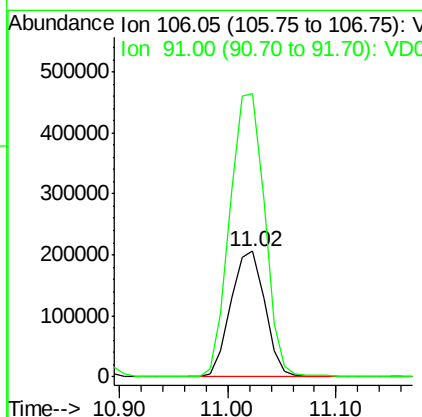
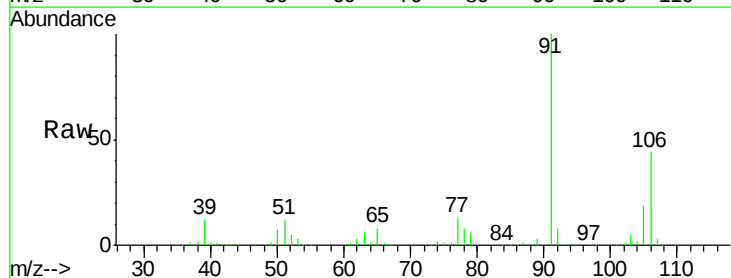
Instrument :
MSVOA_D
ClientSampled :

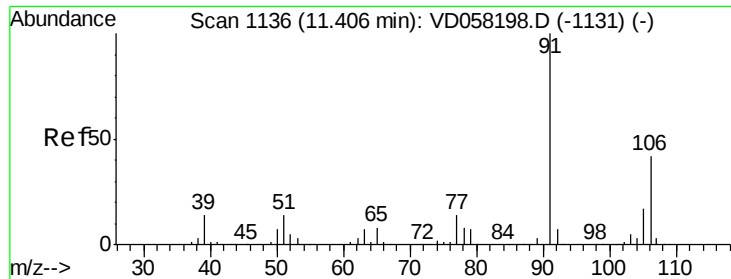
Tot Ion: 91 Resp: 648182
Ion Ratio Lower Upper
91 100
106 28.1 22.0 33.0



#68
m/p-Xylenes
Concen: 46.140 ug/l
RT: 11.02 min Scan# 1097
Delta R.T. 0.01 min
Lab File: VD058382.D
Acq: 24 Jun 2018 20:07

Tgt Ion:106 Resp: 453386
Ion Ratio Lower Upper
106 100
91 225.3 185.0 277.6

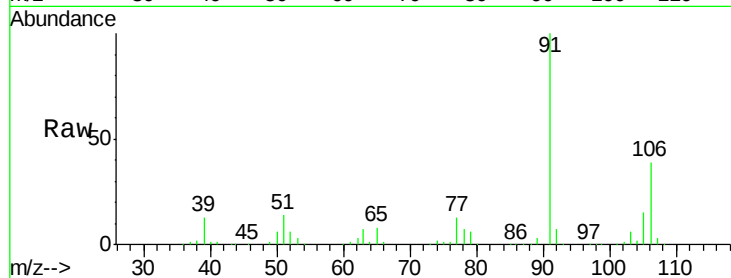




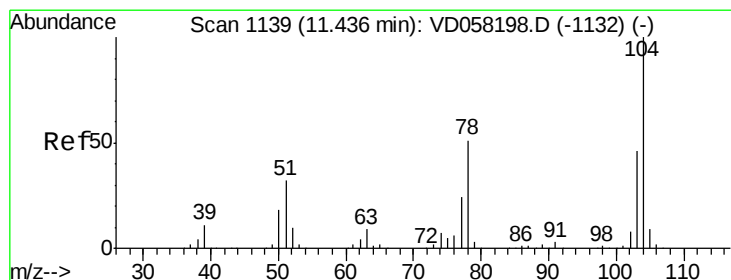
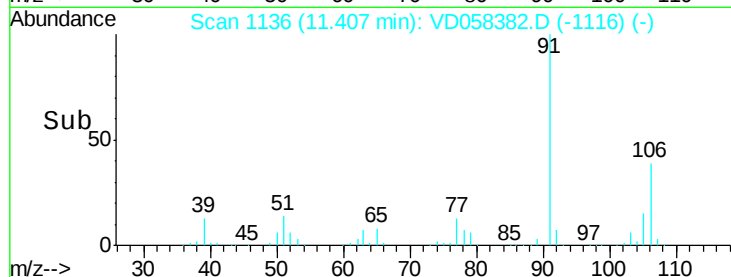
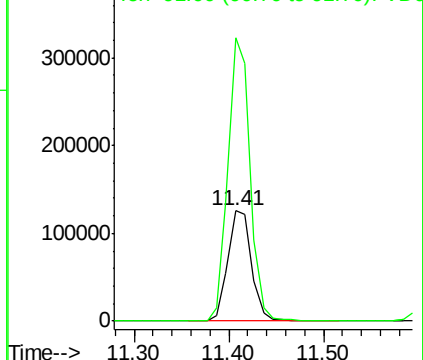
#69
o-Xylene
Concen: 23.195 ug/l
RT: 11.41 min Scan# 1136
Delta R.T. 0.00 min
Lab File: VD058382.D
Acq: 24 Jun 2018 20:07

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:106 Resp: 217685
Ion Ratio Lower Upper
106 100
91 256.4 120.2 360.6

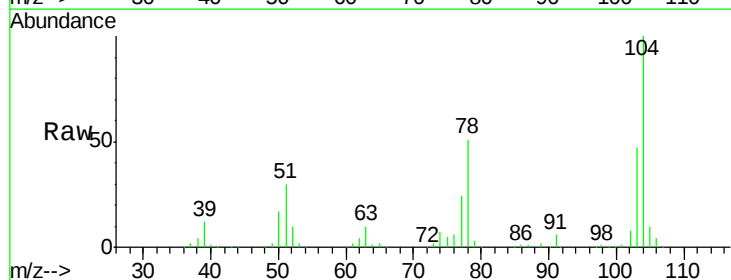


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

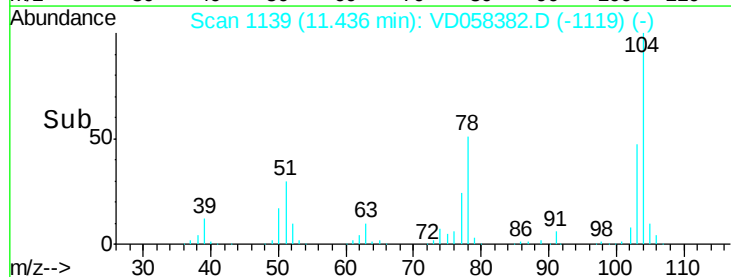
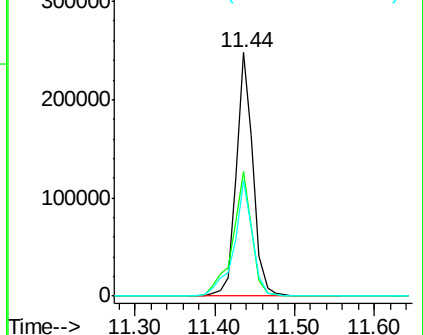


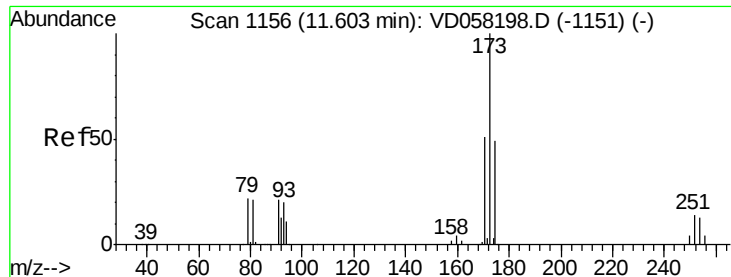
#70
Styrene
Concen: 22.766 ug/l
RT: 11.44 min Scan# 1139
Delta R.T. 0.00 min
Lab File: VD058382.D
Acq: 24 Jun 2018 20:07

Tgt Ion:104 Resp: 364587
Ion Ratio Lower Upper
104 100
78 51.2 40.8 61.2
103 47.3 37.0 55.6



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

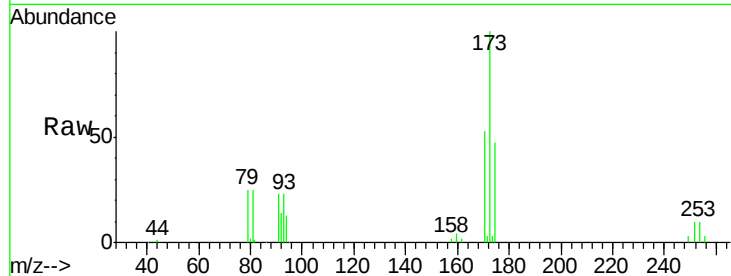




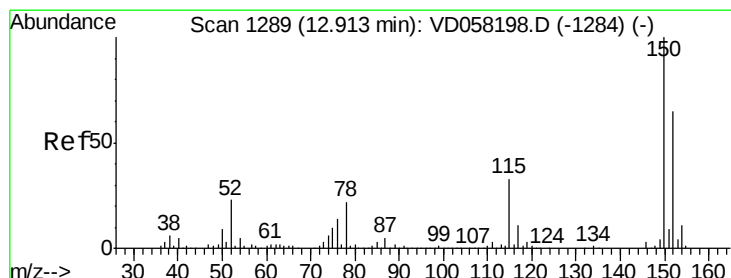
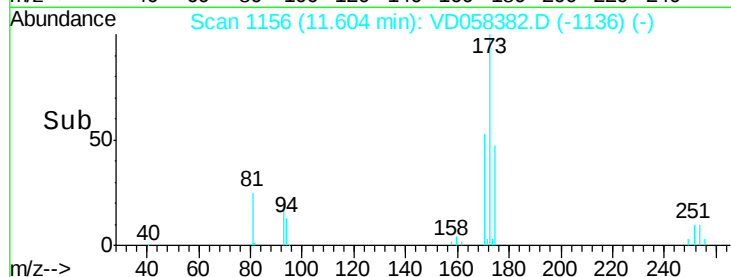
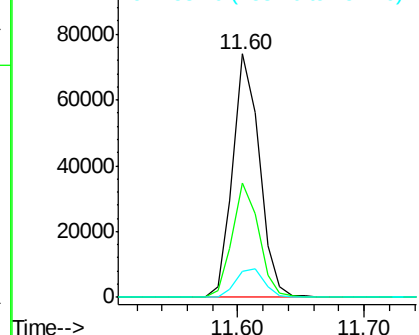
#71
Bromoform
Concen: 21.036 ug/l
RT: 11.60 min Scan# 1156
Delta R.T. 0.00 min
Lab File: VD058382.D
Acq: 24 Jun 2018 20:07

Instrument :
MSVOA_D
ClientSampleID :

Tot Ion:173 Resp: 108083
Ion Ratio Lower Upper
173 100
175 47.1 24.6 74.0
254 10.4 10.3 15.5

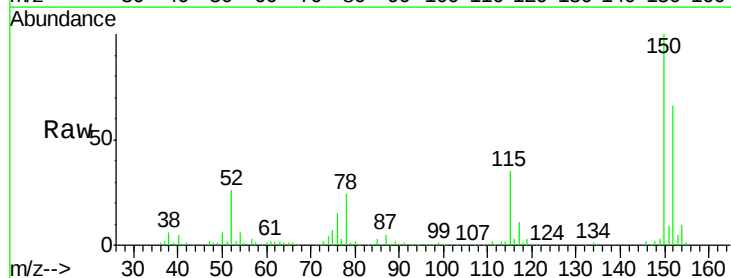


Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V

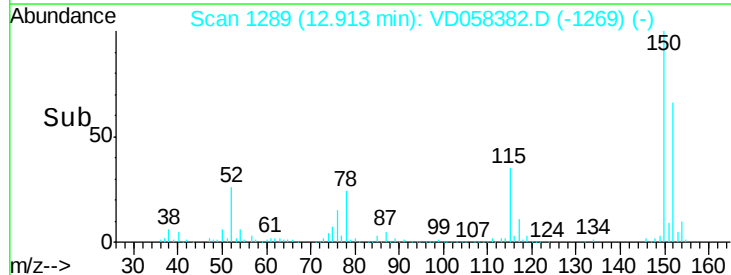
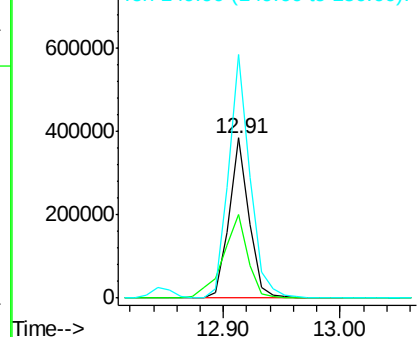


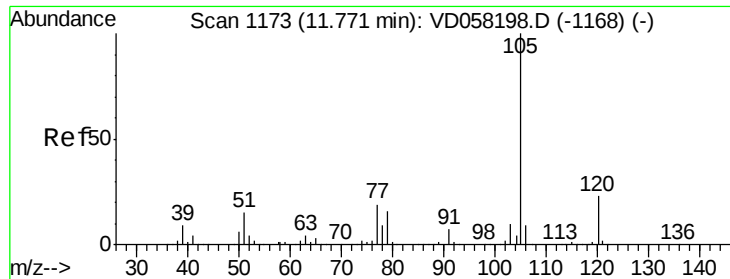
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.91 min Scan# 1289
Delta R.T. 0.00 min
Lab File: VD058382.D
Acq: 24 Jun 2018 20:07

Tgt Ion:152 Resp: 455047
Ion Ratio Lower Upper
152 100
115 52.5 25.1 75.3
150 151.9 0.0 308.8



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





#73

Isopropylbenzene

Concen: 23.462 ug/l

RT: 11.78 min Scan# 1174

Delta R.T. 0.01 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

Instrument :

MSVOA_D

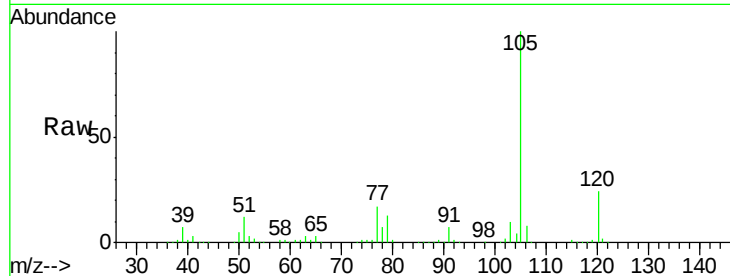
ClientSampleId :

Tot Ion:105 Resp: 638593

Ion Ratio Lower Upper

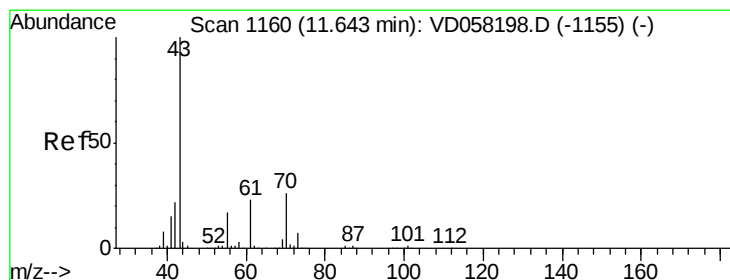
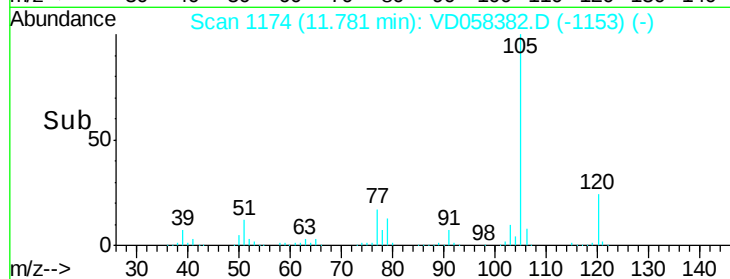
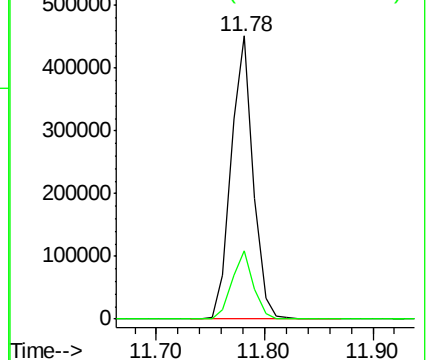
105 100

120 24.0 11.6 34.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 21.308 ug/l

RT: 11.65 min Scan# 1161

Delta R.T. 0.01 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

Tgt Ion: 43 Resp: 224248

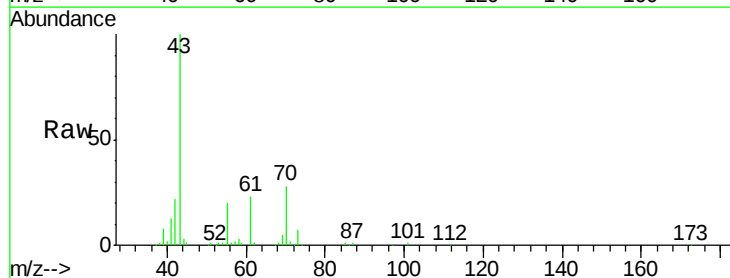
Ion Ratio Lower Upper

43 100

70 27.6 20.9 31.3

55 19.6 13.5 20.3

61 23.3 18.2 27.2

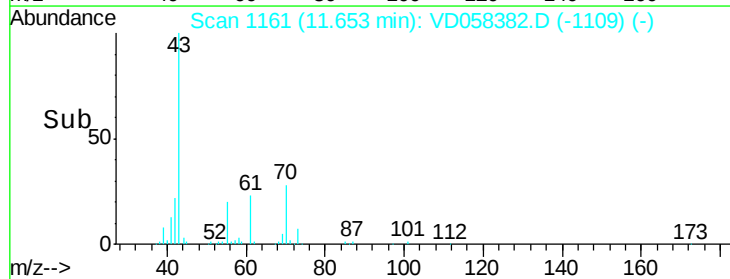
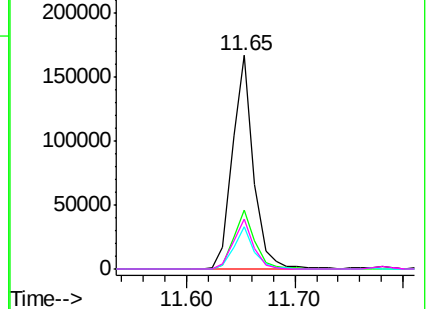


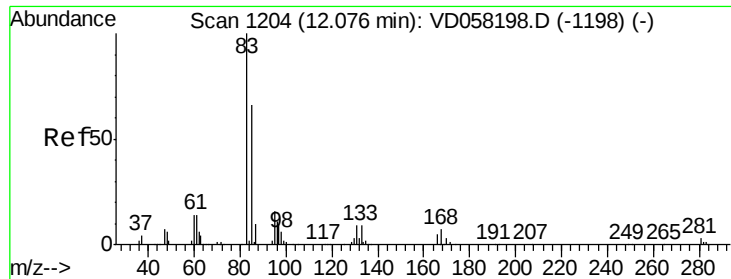
Abundance Ion 42.95 (42.65 to 43.65): VDC

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: 20.587 ug/l

RT: 12.08 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

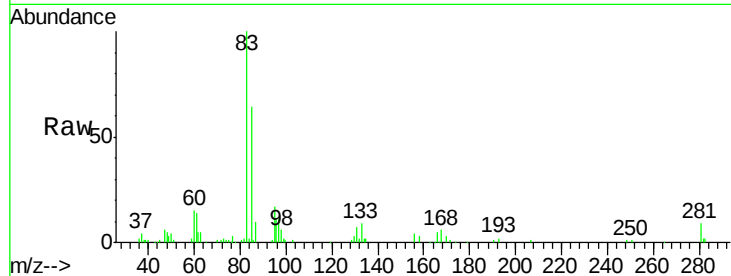
Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 83 Resp: 130400

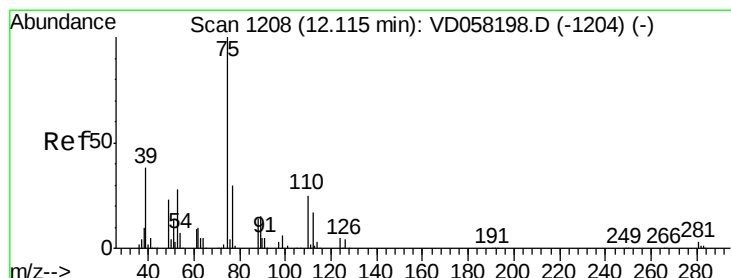
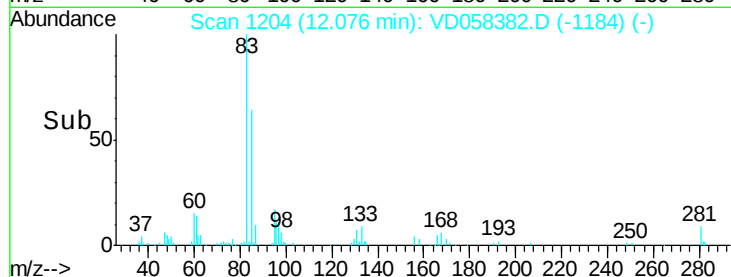
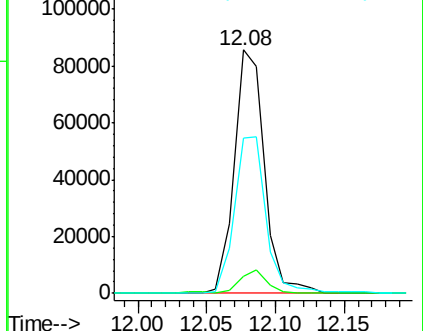
Ion	Ratio	Lower	Upper
83	100		
131	7.3	4.8	14.3
85	64.0	33.1	99.5



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: 21.065 ug/l

RT: 12.12 min Scan# 1208

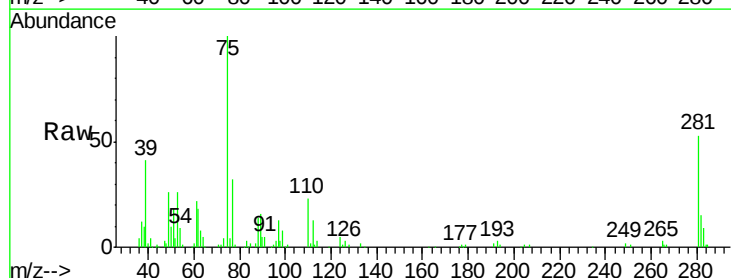
Delta R.T. 0.00 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

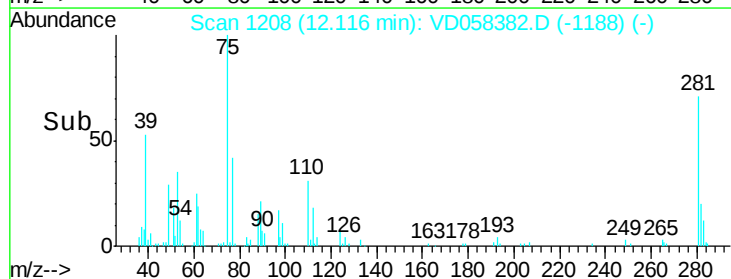
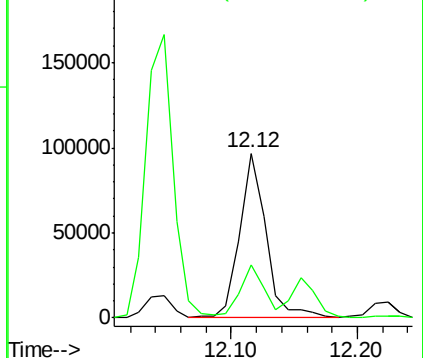
Tgt Ion: 75 Resp: 139949

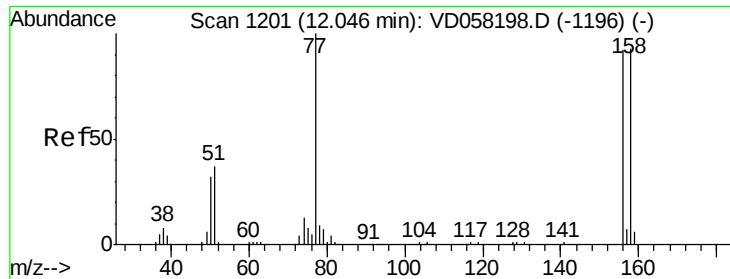
Ion	Ratio	Lower	Upper
75	100		
77	31.9	16.0	47.9



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

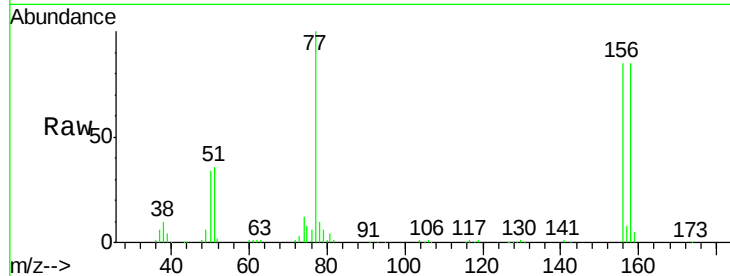




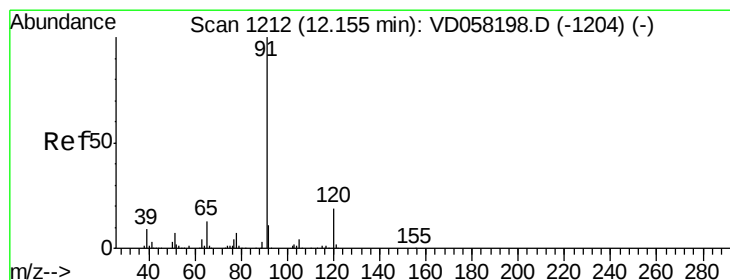
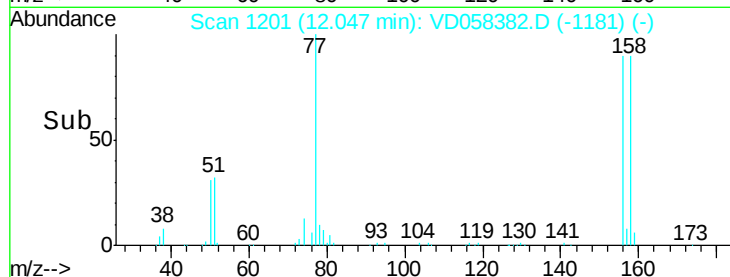
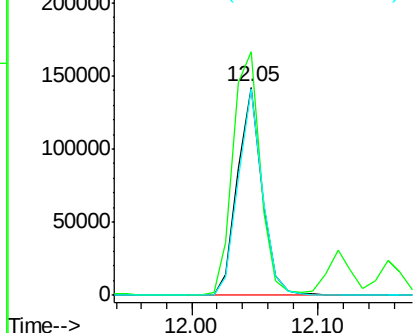
#77
Bromobenzene
Concen: 23.382 ug/l
RT: 12.05 min Scan# 1201
Delta R.T. 0.00 min
Lab File: VD058382.D
Acq: 24 Jun 2018 20:07

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:156 Resp: 190573
Ion Ratio Lower Upper
156 100
77 117.1 54.5 163.6
158 99.4 50.8 152.5

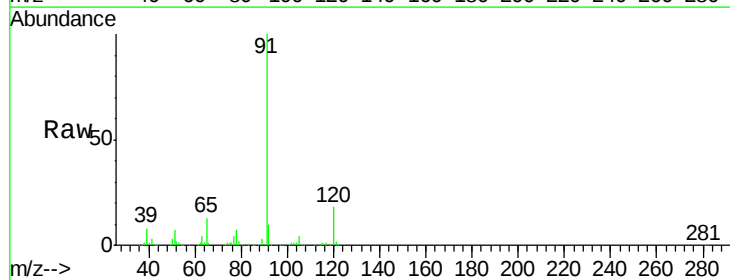


Abundance Ion 155.90 (155.60 to 156.60): V
Ion 76.95 (76.65 to 77.65): VDC
Ion 157.85 (157.55 to 158.55): V

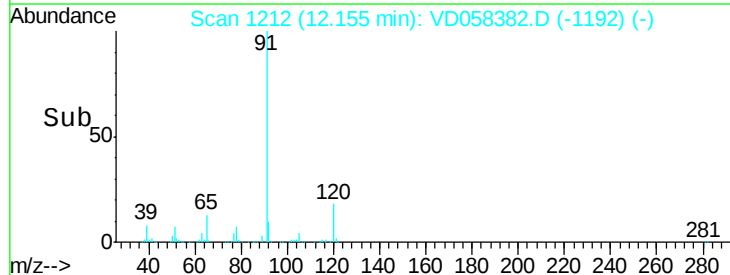
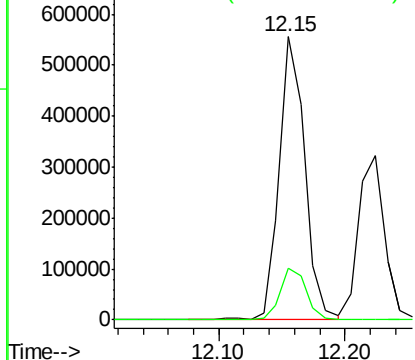


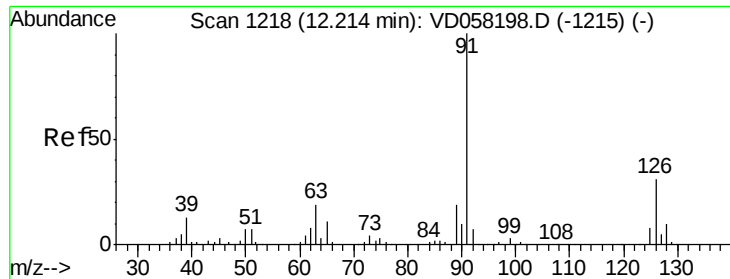
#78
n-propylbenzene
Concen: 22.322 ug/l
RT: 12.15 min Scan# 1212
Delta R.T. 0.00 min
Lab File: VD058382.D
Acq: 24 Jun 2018 20:07

Tgt Ion: 91 Resp: 784597
Ion Ratio Lower Upper
91 100
120 18.3 9.7 29.1



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 120.05 (119.75 to 120.75): V

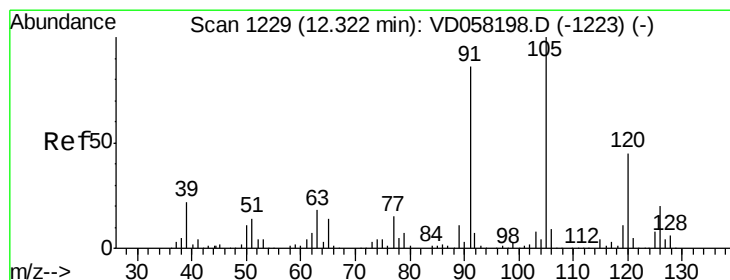
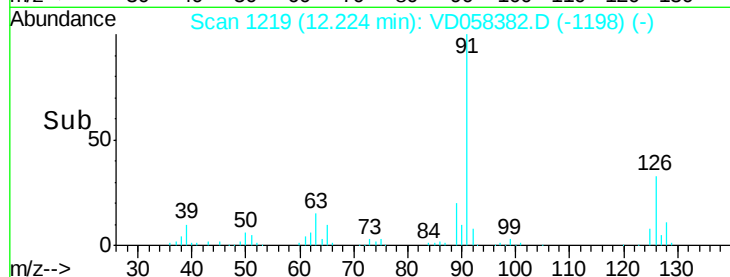
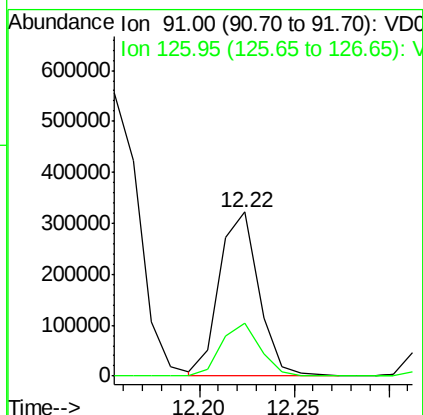
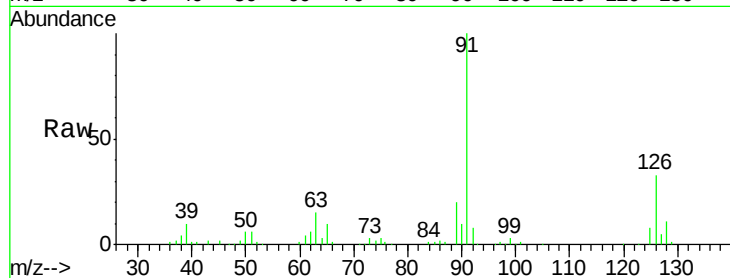




#79
 2-Chlorotoluene
 Concen: 22.773 ug/l
 RT: 12.22 min Scan# 1219
 Delta R.T. 0.01 min
 Lab File: VD058382.D
 Acq: 24 Jun 2018 20:07

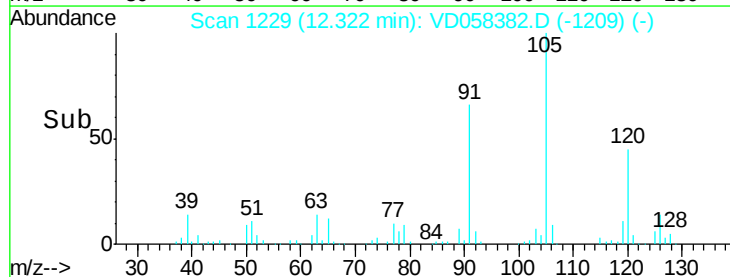
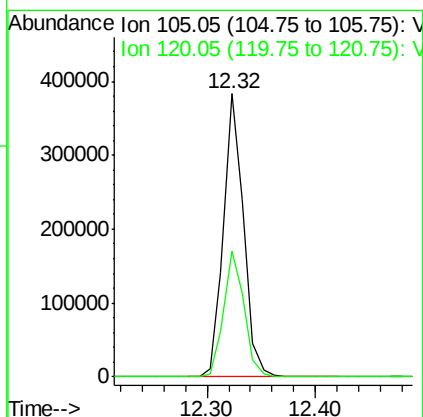
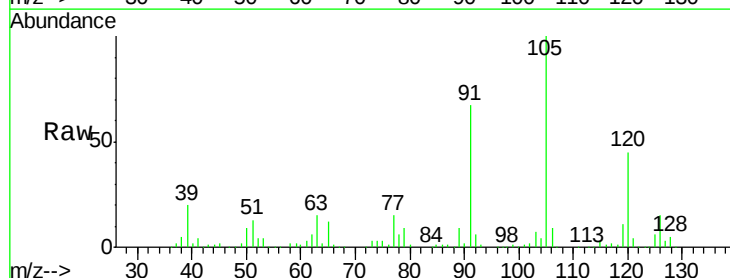
Instrument :
 MSVOA_D
 ClientSampleId :

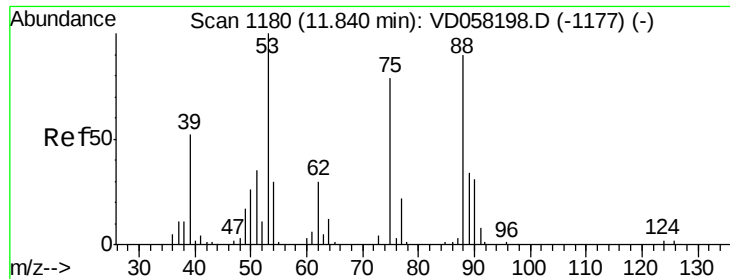
Tot Ion: 91 Resp: 458062
 Ion Ratio Lower Upper
 91 100
 126 32.7 14.9 44.5



#80
 1,3,5-Trimethylbenzene
 Concen: 23.321 ug/l
 RT: 12.32 min Scan# 1229
 Delta R.T. 0.00 min
 Lab File: VD058382.D
 Acq: 24 Jun 2018 20:07

Tgt Ion: 105 Resp: 495105
 Ion Ratio Lower Upper
 105 100
 120 44.7 22.5 67.5





#81

trans-1,4-Dichloro-2-butene

Concen: 16.484 ug/l

RT: 11.85 min Scan# 1181

Delta R.T. 0.01 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

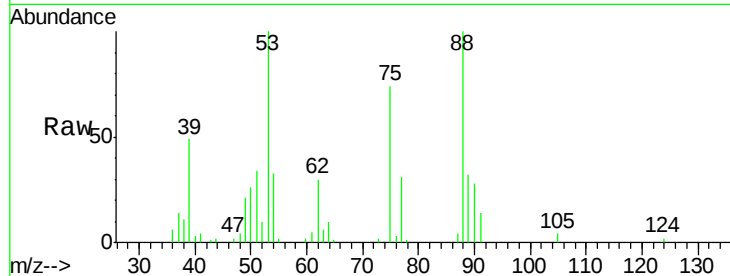
Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 75 Resp: 26710

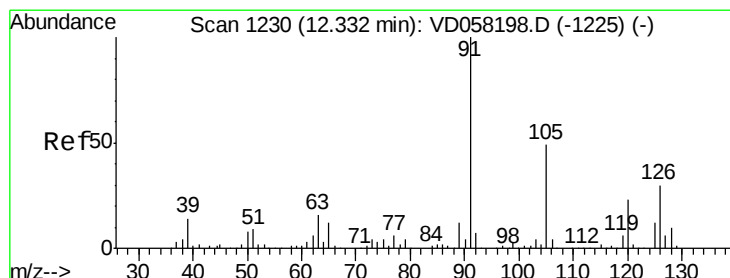
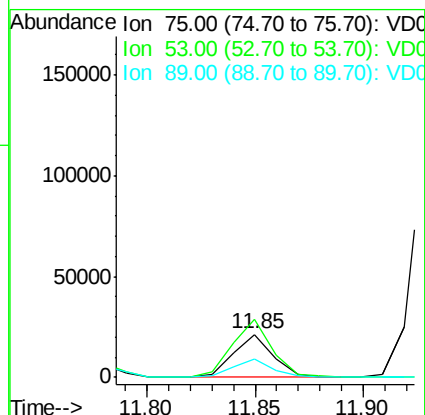
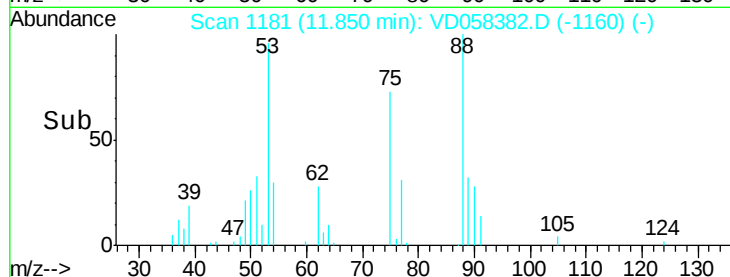
Ion	Ratio	Lower	Upper
75	100		
53	134.1	100.8	151.2
89	43.6	34.6	52.0



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: 22.762 ug/l

RT: 12.33 min Scan# 1230

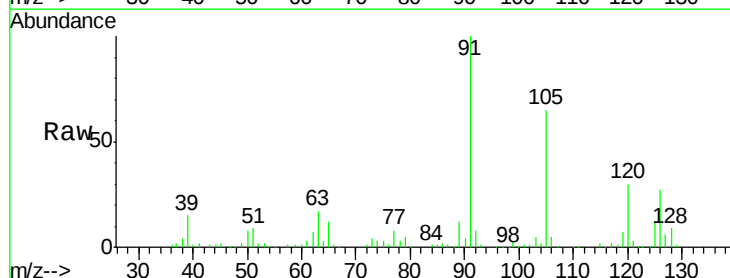
Delta R.T. 0.00 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

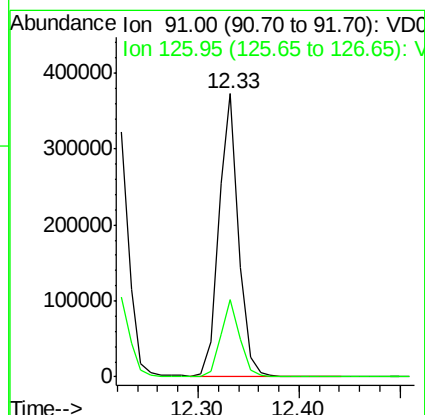
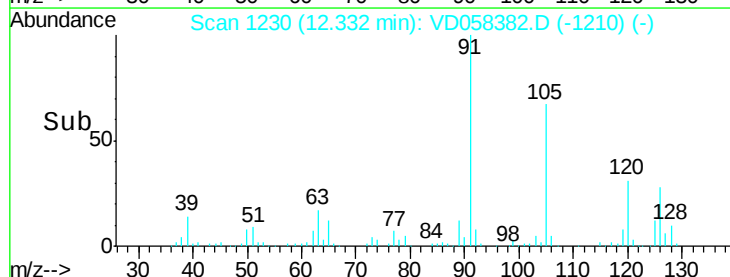
Tgt Ion: 91 Resp: 504260

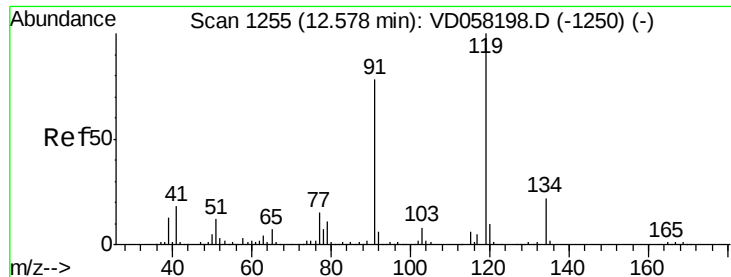
Ion	Ratio	Lower	Upper
91	100		
126	27.1	14.9	44.9



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V





#83

tert-Butylbenzene

Concen: 22.087 ug/l

RT: 12.58 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

Instrument :

MSVOA_D

ClientSampleId :

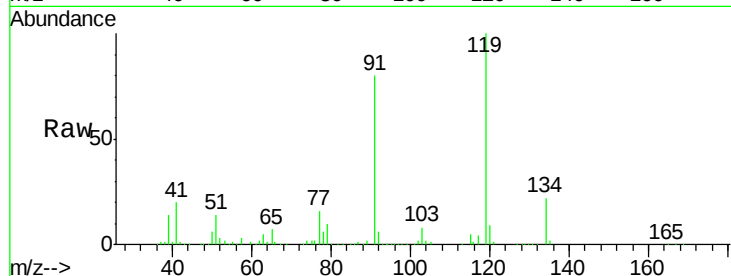
Tot Ion:119 Resp: 539100

Ion Ratio Lower Upper

119 100

91 79.6 38.9 116.6

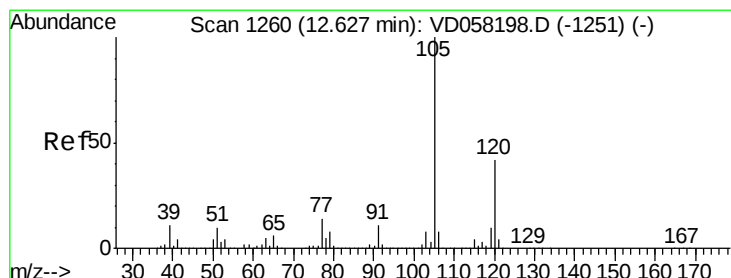
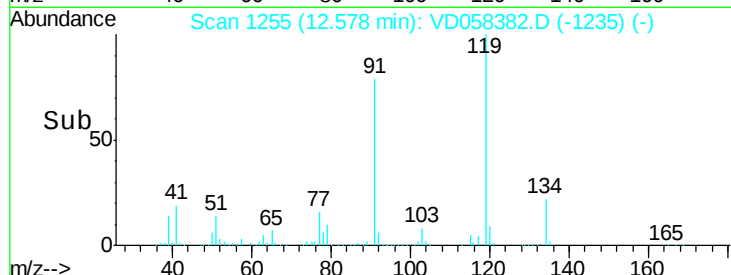
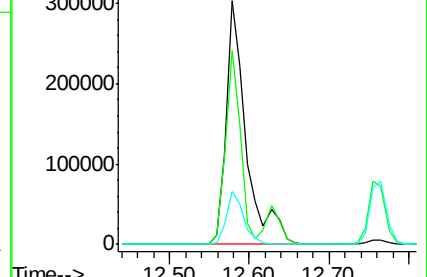
134 22.0 11.2 33.5



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 22.530 ug/l

RT: 12.63 min Scan# 1260

Delta R.T. 0.00 min

Lab File: VD058382.D

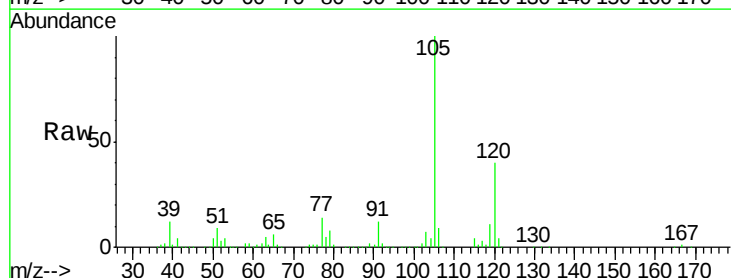
Acq: 24 Jun 2018 20:07

Tgt Ion:105 Resp: 519915

Ion Ratio Lower Upper

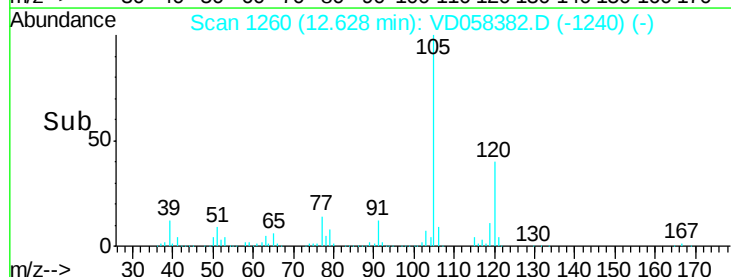
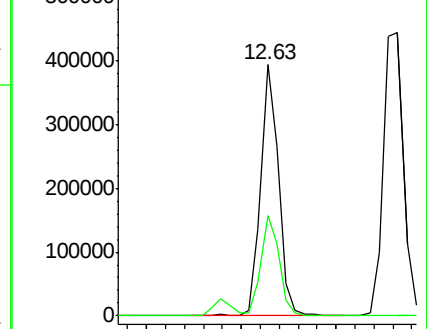
105 100

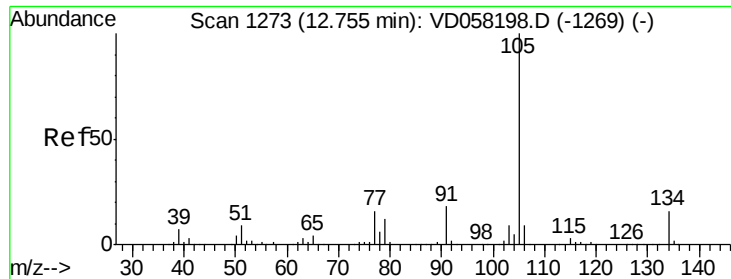
120 39.8 20.8 62.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

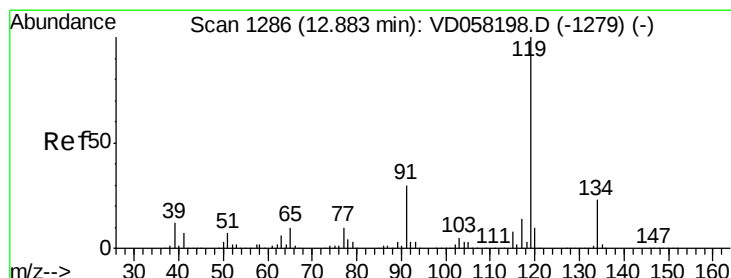
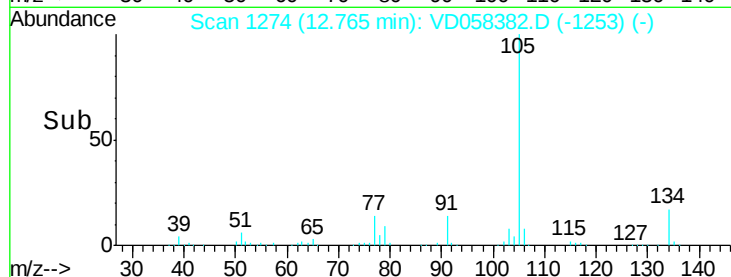
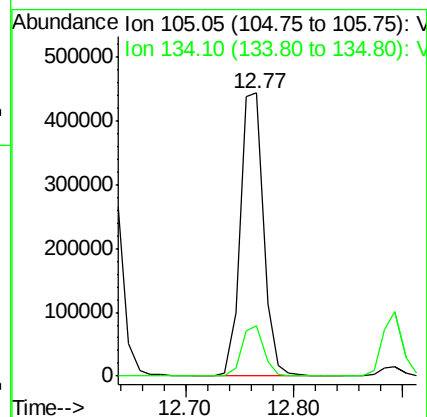
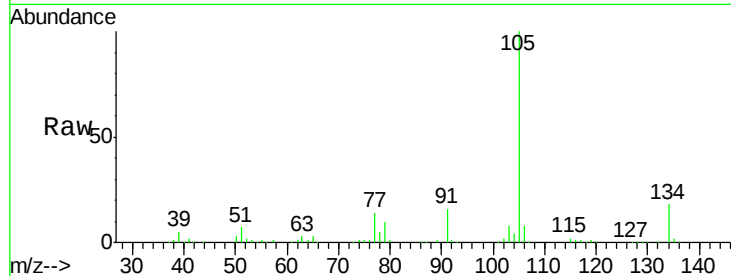




#85
 sec-Butylbenzene
 Concen: 23.210 ug/l
 RT: 12.77 min Scan# 1274
 Delta R.T. 0.01 min
 Lab File: VD058382.D
 Acq: 24 Jun 2018 20:07

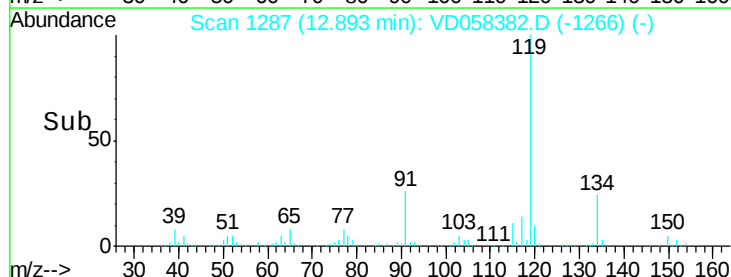
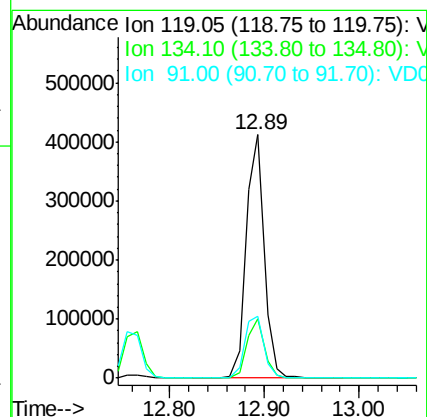
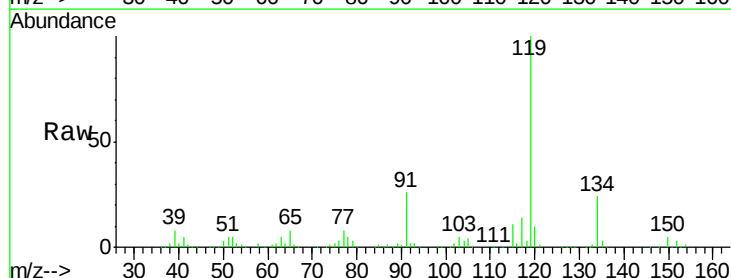
Instrument :
 MSVOA_D
 ClientSampled :

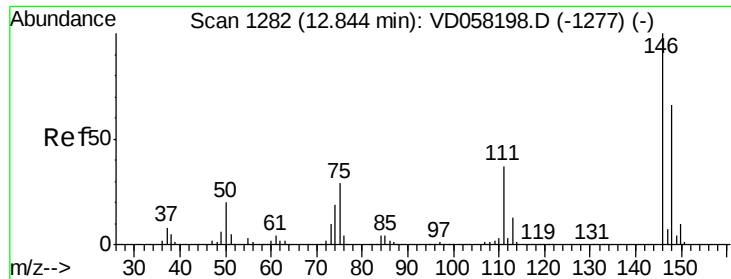
Tot Ion:105 Resp: 664031
 Ion Ratio Lower Upper
 105 100
 134 17.7 8.1 24.3



#86
 p-Isopropyltoluene
 Concen: 23.235 ug/l
 RT: 12.89 min Scan# 1287
 Delta R.T. 0.01 min
 Lab File: VD058382.D
 Acq: 24 Jun 2018 20:07

Tgt Ion:119 Resp: 538680
 Ion Ratio Lower Upper
 119 100
 134 24.3 11.6 34.8
 91 25.7 15.0 45.1

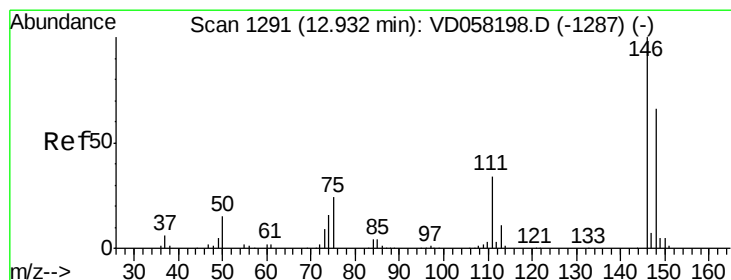
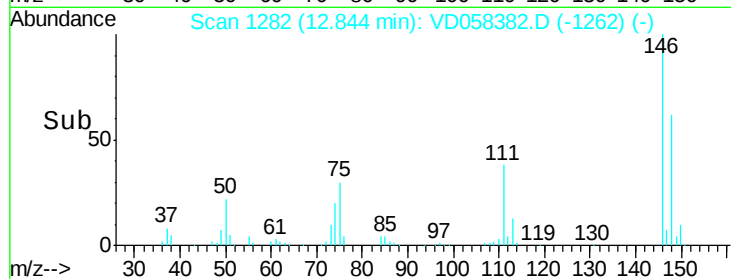
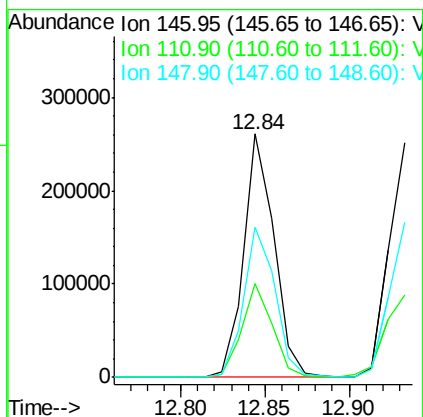
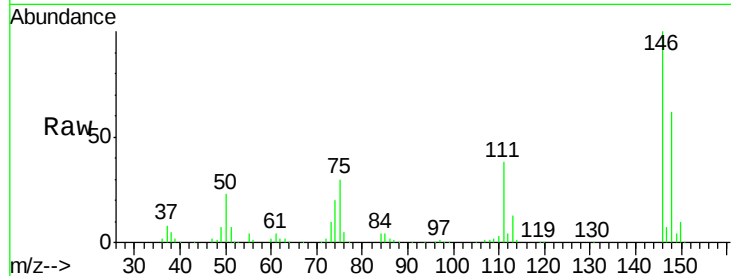




#87
 1,3-Dichlorobenzene
 Concen: 23.078 ug/l
 RT: 12.84 min Scan# 1282
 Delta R.T. 0.00 min
 Lab File: VD058382.D
 Acq: 24 Jun 2018 20:07

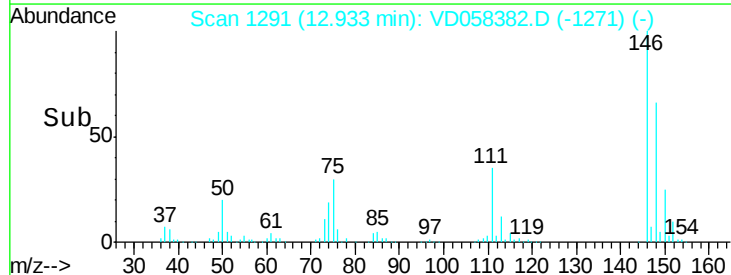
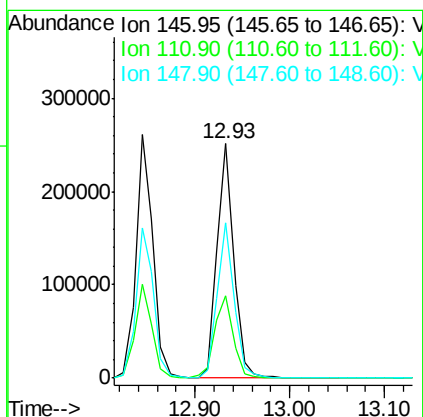
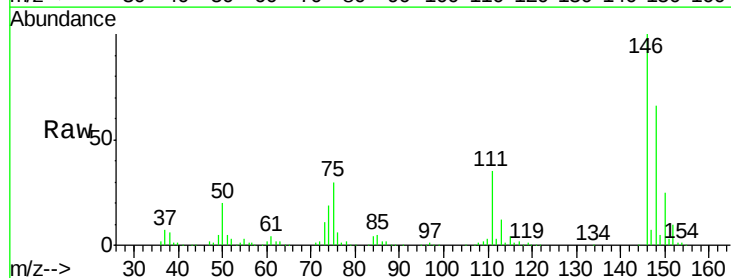
Instrument :
 MSVOA_D
 ClientSampleId :

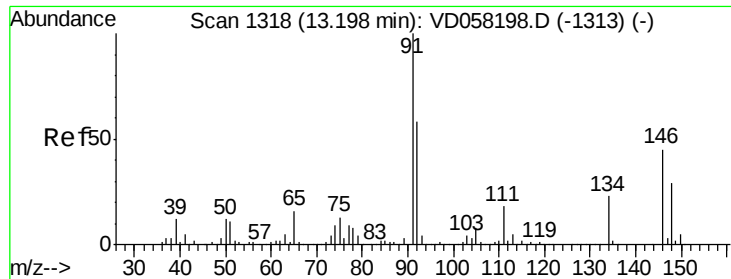
Tot Ion:146 Resp: 326936
 Ion Ratio Lower Upper
 146 100
 111 38.4 18.4 55.0
 148 61.6 32.8 98.4



#88
 1,4-Dichlorobenzene
 Concen: 22.528 ug/l
 RT: 12.93 min Scan# 1291
 Delta R.T. 0.00 min
 Lab File: VD058382.D
 Acq: 24 Jun 2018 20:07

Tgt Ion:146 Resp: 311643
 Ion Ratio Lower Upper
 146 100
 111 35.1 17.2 51.5
 148 66.3 33.1 99.3

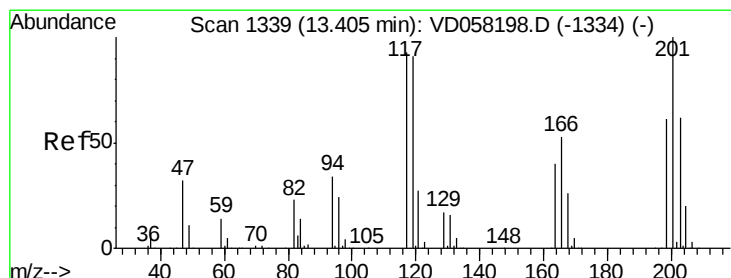
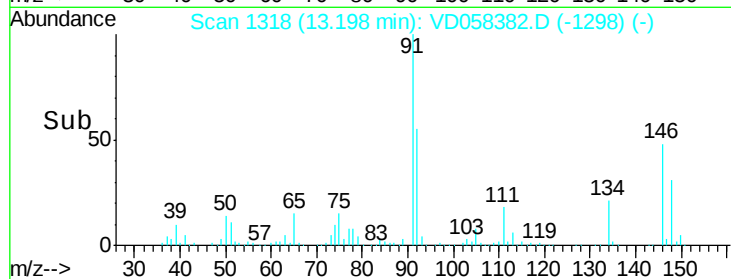
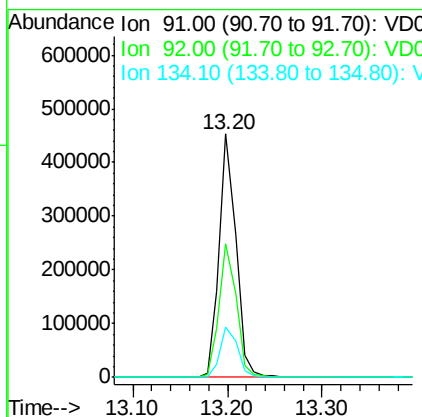
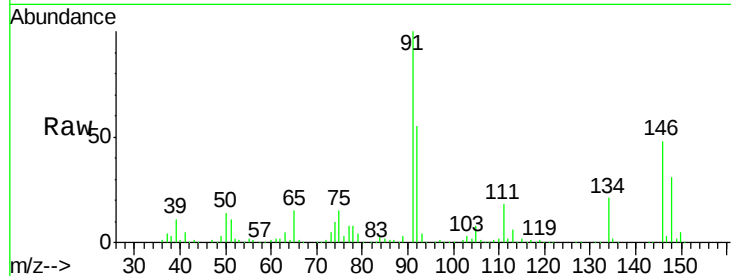




#89
n-Butylbenzene
Concen: 23.032 ug/l
RT: 13.20 min Scan# 1318
Delta R.T. 0.00 min
Lab File: VD058382.D
Acq: 24 Jun 2018 20:07

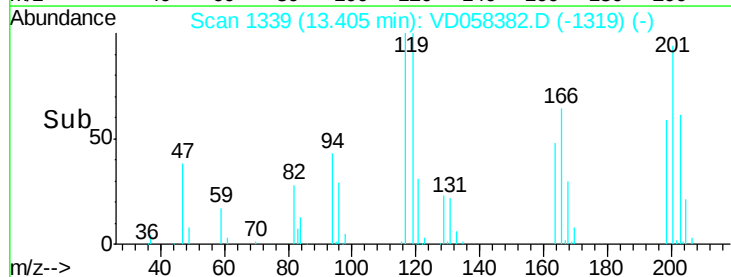
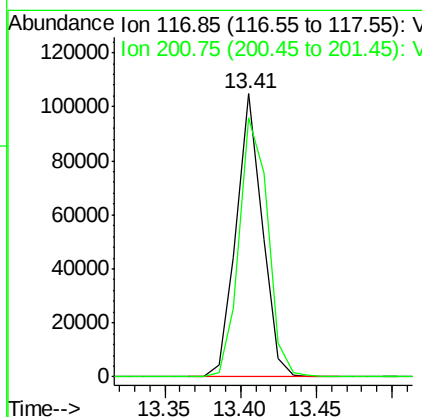
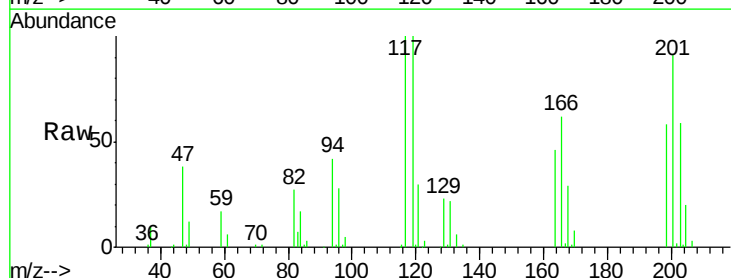
Instrument :
MSVOA_D
ClientSampleId :

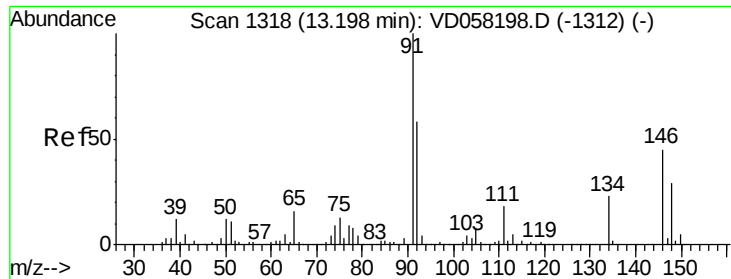
Tot Ion: 91 Resp: 561196
Ion Ratio Lower Upper
91 100
92 55.1 29.2 87.6
134 20.6 11.3 33.8



#90
Hexachloroethane
Concen: 20.844 ug/l
RT: 13.41 min Scan# 1339
Delta R.T. 0.00 min
Lab File: VD058382.D
Acq: 24 Jun 2018 20:07

Tgt Ion: 117 Resp: 125427
Ion Ratio Lower Upper
117 100
201 91.5 53.8 161.4

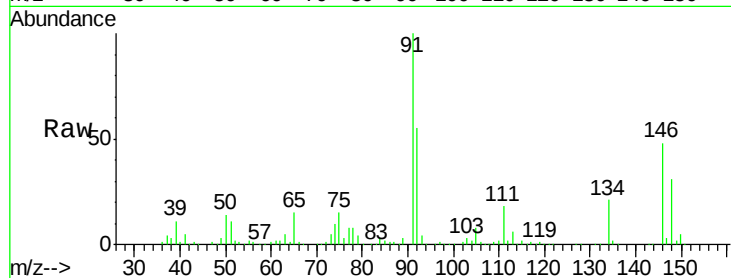




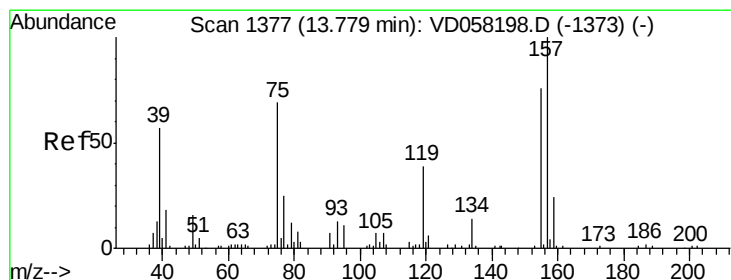
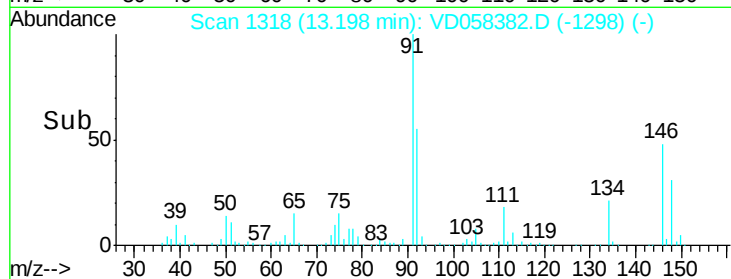
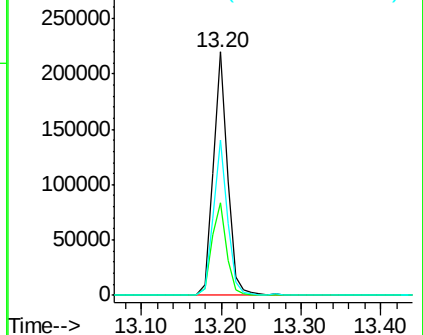
#91
 1,2-Dichlorobenzene
 Concen: 23.263 ug/l
 RT: 13.20 min Scan# 1318
 Delta R.T. 0.00 min
 Lab File: VD058382.D
 Acq: 24 Jun 2018 20:07

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion:146 Resp: 280445
 Ion Ratio Lower Upper
 146 100
 111 38.0 19.6 58.7
 148 63.6 32.0 96.2

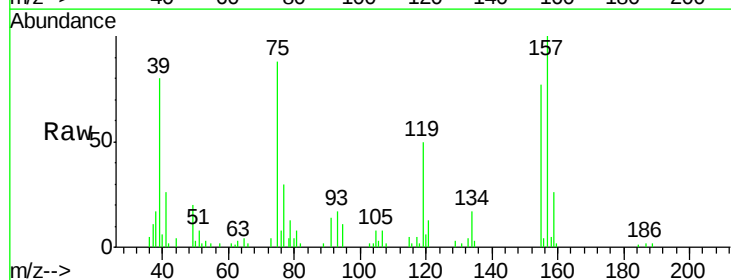


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

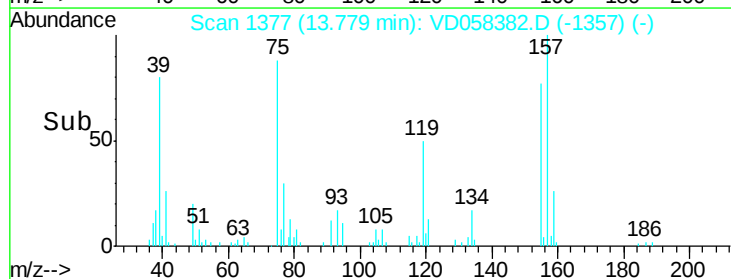
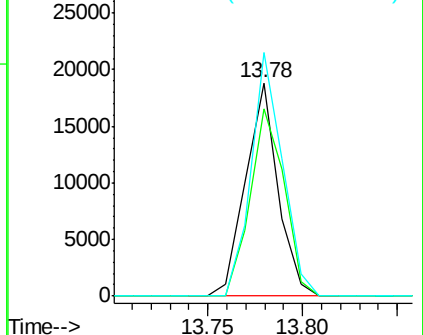


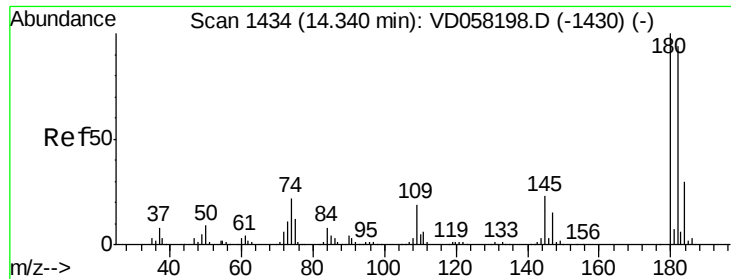
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 22.175 ug/l
 RT: 13.78 min Scan# 1377
 Delta R.T. 0.00 min
 Lab File: VD058382.D
 Acq: 24 Jun 2018 20:07

Tgt Ion: 75 Resp: 22354
 Ion Ratio Lower Upper
 75 100
 155 87.6 54.5 163.5
 157 114.1 72.0 215.9



Abundance Ion 75.00 (74.70 to 75.70): V
 Ion 154.90 (154.60 to 155.60): V
 Ion 156.85 (156.55 to 157.55): V

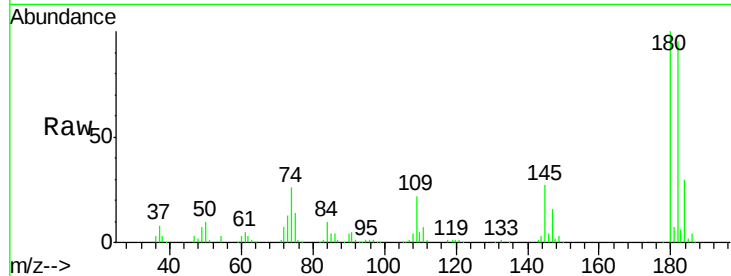




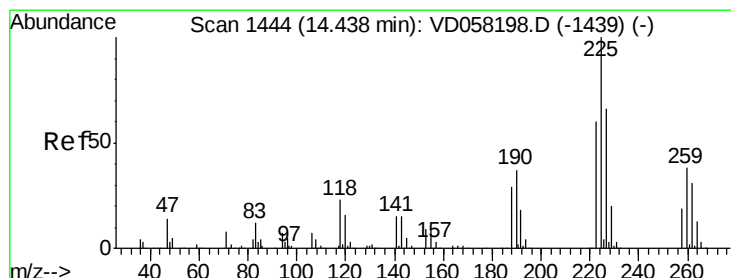
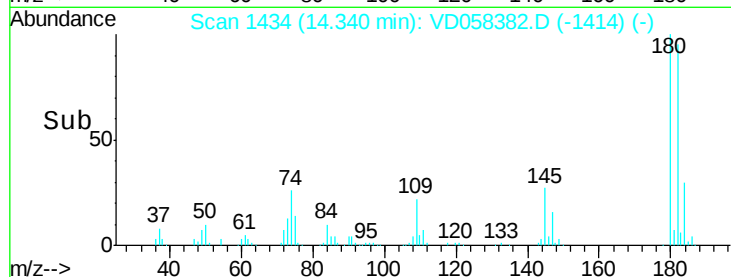
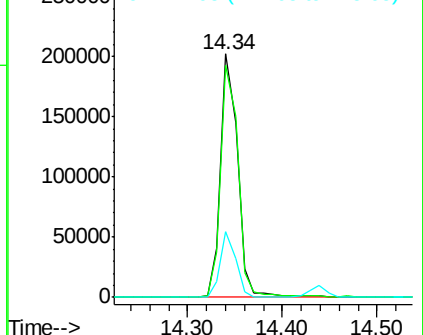
#93
 1,2,4-Trichlorobenzene
 Concen: 21.984 ug/l
 RT: 14.34 min Scan# 1434
 Delta R.T. 0.00 min
 Lab File: VD058382.D
 Acq: 24 Jun 2018 20:07

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:180 Resp: 253475
 Ion Ratio Lower Upper
 180 100
 182 95.4 47.1 141.3
 145 26.9 11.7 35.0

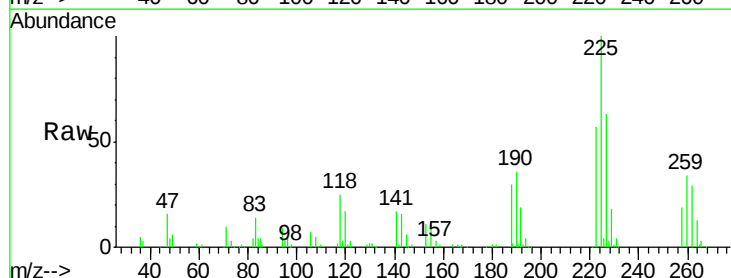


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

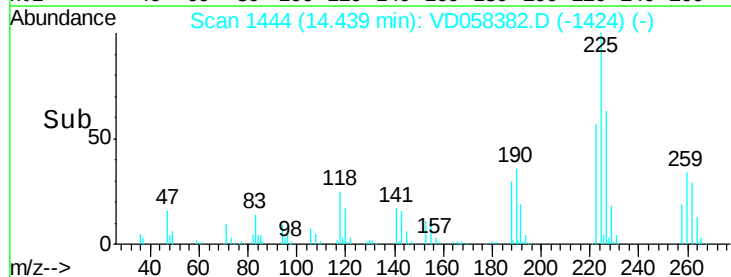
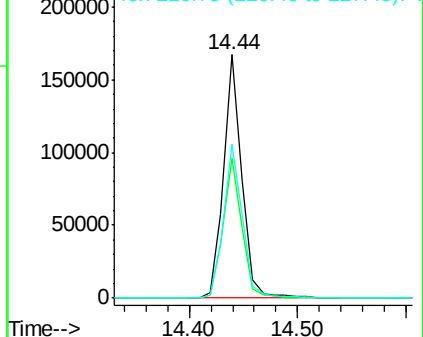


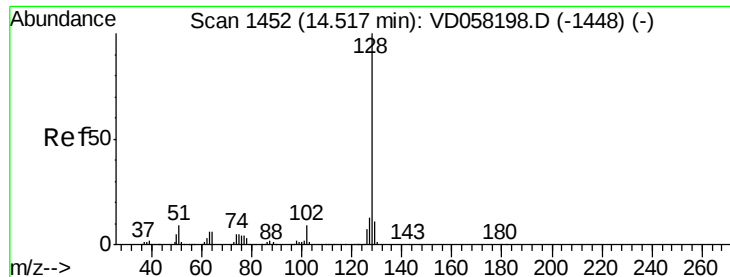
#94
 Hexachlorobutadiene
 Concen: 21.765 ug/l
 RT: 14.44 min Scan# 1444
 Delta R.T. 0.00 min
 Lab File: VD058382.D
 Acq: 24 Jun 2018 20:07

Tgt Ion:225 Resp: 196284
 Ion Ratio Lower Upper
 225 100
 223 57.5 30.1 90.3
 227 63.0 33.0 98.9



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: 21.834 ug/l

RT: 14.52 min Scan# 1452

Delta R.T. 0.00 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

Instrument :

MSVOA_D

ClientSampleId :

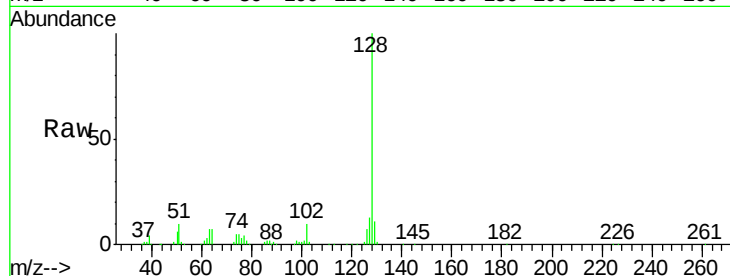
Tot Ion:128 Resp: 331617

Ion Ratio Lower Upper

128 100

127 12.5 10.0 15.0

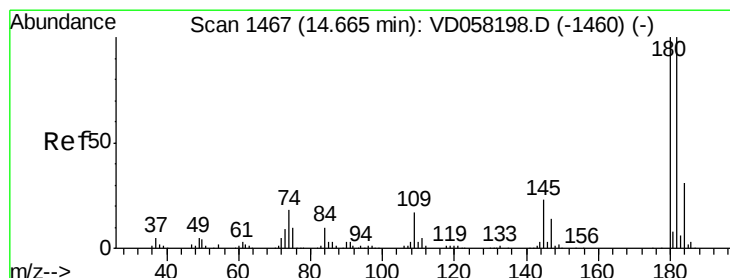
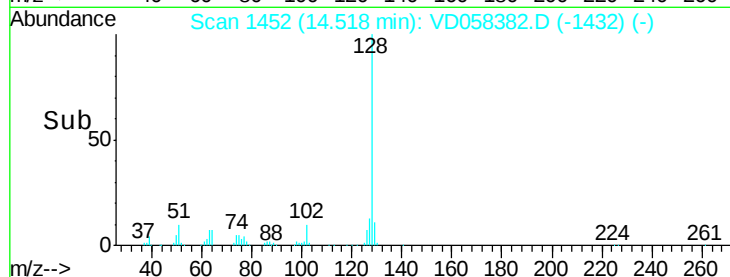
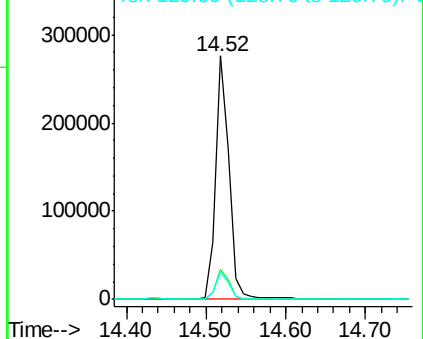
129 11.1 8.7 13.1



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: 21.770 ug/l

RT: 14.67 min Scan# 1467

Delta R.T. 0.00 min

Lab File: VD058382.D

Acq: 24 Jun 2018 20:07

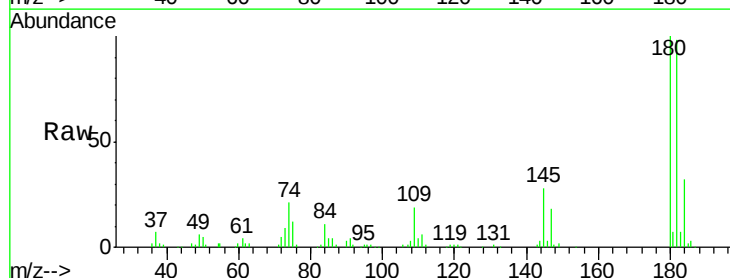
Tgt Ion:180 Resp: 219749

Ion Ratio Lower Upper

180 100

182 98.0 49.9 149.6

145 28.3 11.7 35.1



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

