

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062318\
 Data File : VD058339.D
 Acq On : 23 Jun 2018 14:03
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Quant Time: Jun 25 01:05:56 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	5.66	168	973419	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	6.70	114	1235441	50.00	ug/l	0.01
63) Chlorobenzene-d5	10.70	117	1002693	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.91	152	497996	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	521067	53.00	ug/l	0.02
Spiked Amount			Recovery	=	106.00%	
35) Dibromofluoromethane	5.57	113	551136	54.81	ug/l	0.02
Spiked Amount			Recovery	=	109.62%	
50) Toluene-d8	8.72	98	1267998	52.12	ug/l	0.01
Spiked Amount			Recovery	=	104.24%	
62) 4-Bromofluorobenzene	11.94	95	519011	52.23	ug/l	0.01
Spiked Amount			Recovery	=	104.46%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.36	85	486907	53.82	ug/l	100
3) Chloromethane	1.51	50	202518	47.45	ug/l	98
4) Vinyl Chloride	1.57	62	225161	44.16	ug/l	99
5) Bromomethane	1.82	94	91138	53.95	ug/l	99
6) Chloroethane	1.90	64	110941	61.30	ug/l	98
7) Trichlorofluoromethane	2.11	101	406507	58.14	ug/l	92
8) Diethyl Ether	2.36	74	70194	47.46	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	2.58	101	250079	56.26	ug/l	88
10) Methyl Iodide	2.72	142	250817	49.61	ug/l	98
11) Tert butyl alcohol	3.28	59	79296	244.53	ug/l	97
12) 1,1-Dichloroethene	2.57	96	172721	51.65	ug/l	95
13) Acrolein	2.49	56	23569	127.32	ug/l	85
14) Allyl chloride	2.94	41	375213	48.21	ug/l	95
15) Acrylonitrile	3.38	53	379164	440.96	ug/l	97
16) Acetone	2.63	43	366776	272.77	ug/l	97
17) Carbon Disulfide	2.77	76	480455	42.23	ug/l	99
18) Methyl Acetate	2.95	43	131105	45.72	ug/l	98
19) Methyl tert-butyl Ether	3.42	73	807848	91.08	ug/l	98
20) Methylene Chloride	3.09	84	173027	49.22	ug/l	94
21) trans-1,2-Dichloroethene	3.40	96	382298	104.60	ug/l	93
22) Diisopropyl ether	4.09	45	1418000	45.87	ug/l	91
23) Vinyl Acetate	4.04	43	3948468	238.27	ug/l	98
24) 1,1-Dichloroethane	4.00	63	841863	50.55	ug/l	98
25) 2-Butanone	4.85	43	679975	232.02	ug/l	99
26) 2,2-Dichloropropane	4.82	77	721174	51.71	ug/l	99
27) cis-1,2-Dichloroethene	4.82	96	460449	50.41	ug/l	98
28) Bromochloromethane	5.17	49	393785	52.74	ug/l #	95
29) Tetrahydrofuran	5.21	42	348684	223.53	ug/l	97
30) Chloroform	5.34	83	897812	51.06	ug/l	97
31) Cyclohexane	5.61	56	623931	51.79	ug/l	99
32) 1,1,1-Trichloroethane	5.53	97	737625	50.78	ug/l	97
36) 1,1-Dichloropropene	5.77	75	626090	51.23	ug/l	99
37) Ethyl Acetate	4.95	43	336595	48.34	ug/l #	95
38) Carbon Tetrachloride	5.75	117	625107	51.48	ug/l	96

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.30	83	571186	47.98	ug/l	93
40) Benzene	6.03	78	1477837	50.76	ug/l	100
41) Methacrylonitrile	5.15	41	175913	52.32	ug/l	96
42) 1,2-Dichloroethane	6.15	62	595106	50.69	ug/l	98
43) Isopropyl Acetate	7.63	43	421473	45.40	ug/l #	97
44) Trichloroethene	7.00	130	460536	52.68	ug/l	100
45) 1,2-Dichloropropane	7.36	63	411441	52.48	ug/l	98
46) Dibromomethane	7.48	93	279936	52.30	ug/l	91
47) Bromodichloromethane	7.76	83	646588	52.97	ug/l	100
48) Methyl methacrylate	7.52	41	261511	46.35	ug/l	97
49) 1,4-Dioxane	7.51	88	50740	996.22	ug/l #	81
51) 4-Methyl-2-Pentanone	8.61	43	1443566	238.39	ug/l	99
52) Toluene	8.82	92	835774	50.42	ug/l	95
53) t-1,3-Dichloropropene	9.20	75	576066	54.29	ug/l	97
54) cis-1,3-Dichloropropene	8.38	75	639927	51.44	ug/l	99
55) 1,1,2-Trichloroethane	9.47	97	294321	50.18	ug/l	96
56) Ethyl methacrylate	9.32	69	351596	50.13	ug/l	99
57) 1,3-Dichloropropane	9.68	76	516341	52.26	ug/l	97
58) 2-Chloroethyl Vinyl ether	8.20	63	854933	246.20	ug/l	100
59) 2-Hexanone	9.79	43	1100125	251.42	ug/l	99
60) Dibromochloromethane	9.97	129	426771	53.62	ug/l	98
61) 1,2-Dibromoethane	10.11	107	328321	51.15	ug/l	98
64) Tetrachloroethene	9.53	164	417689	49.51	ug/l	96
65) Chlorobenzene	10.73	112	926228	49.38	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.86	131	380611	52.58	ug/l	97
67) Ethyl Benzene	10.87	91	1661368	50.17	ug/l	97
68) m/p-Xylenes	11.02	106	1062127	96.19	ug/l	95
69) o-Xylene	11.41	106	534855	50.71	ug/l	95
70) Styrene	11.44	104	881539	48.98	ug/l	95
71) Bromoform	11.61	173	295982	51.26	ug/l #	94
73) Isopropylbenzene	11.78	105	1466602	49.24	ug/l	100
74) N-amyl acetate	11.65	43	579528	50.32	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.08	83	368216	53.12	ug/l	99
76) 1,2,3-Trichloropropane	12.12	75	378733	52.09	ug/l	100
77) Bromobenzene	12.05	156	481764	54.01	ug/l	89
78) n-propylbenzene	12.16	91	1996034	51.89	ug/l	97
79) 2-Chlorotoluene	12.23	91	1180714	53.64	ug/l	95
80) 1,3,5-Trimethylbenzene	12.32	105	1159013	49.89	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.85	75	91190	51.42	ug/l	92
82) 4-Chlorotoluene	12.33	91	1256769	59.63	ug/l	95
83) tert-Butylbenzene	12.58	119	1360835	50.95	ug/l	93
84) 1,2,4-Trimethylbenzene	12.63	105	1306714	51.74	ug/l	98
85) sec-Butylbenzene	12.76	105	1552944	49.60	ug/l	99
86) p-Isopropyltoluene	12.89	119	1301467	51.29	ug/l	97
87) 1,3-Dichlorobenzene	12.85	146	804621	51.90	ug/l	97
88) 1,4-Dichlorobenzene	12.93	146	765161	50.54	ug/l	99
89) n-Butylbenzene	13.20	91	1290537	48.40	ug/l	98
90) Hexachloroethane	13.41	117	359078	54.53	ug/l	84
91) 1,2-Dichlorobenzene	13.20	146	605207	45.87	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.78	75	59054	53.53	ug/l	89

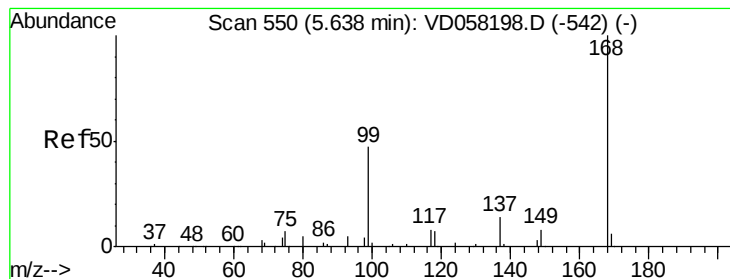
Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062318\
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.34	180	624433	49.49	ug/l	97
94) Hexachlorobutadiene	14.44	225	468137	47.43	ug/l	98
95) Naphthalene	14.52	128	809964	48.73	ug/l	100
96) 1,2,3-Trichlorobenzene	14.67	180	528803	47.87	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 552

Delta R.T. 0.02 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

Instrument :

MSVOA_D

ClientSampleId :

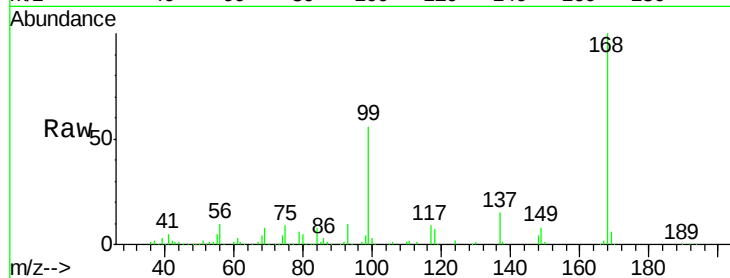
VSTDCCC050

Tot Ion:168 Resp: 973419

Ion Ratio Lower Upper

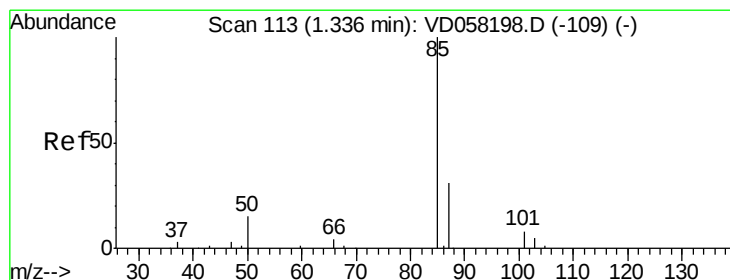
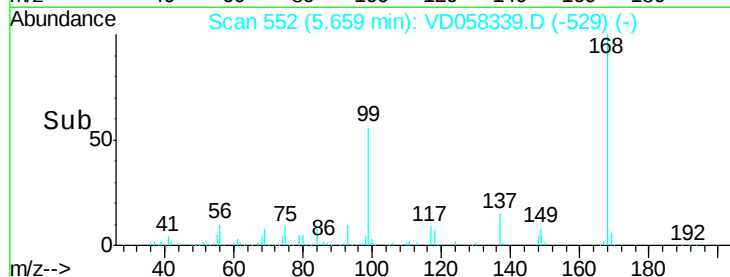
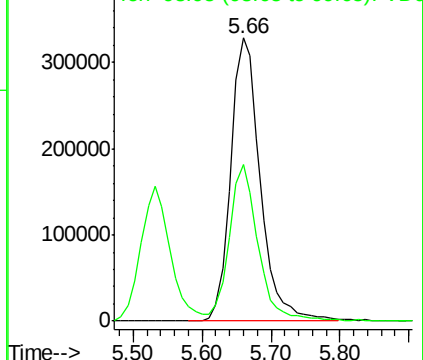
168 100

99 55.6 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: 53.82 ug/l

RT: 1.36 min Scan# 115

Delta R.T. 0.02 min

Lab File: VD058339.D

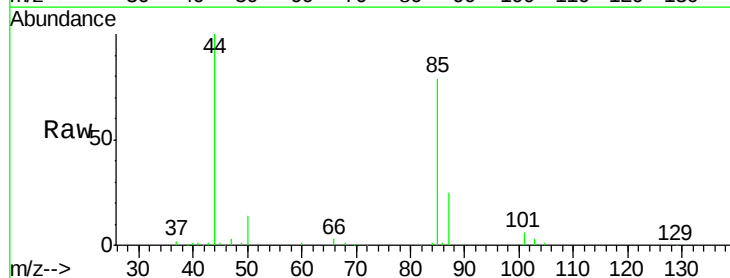
Acq: 23 Jun 2018 14:03

Tgt Ion: 85 Resp: 486907

Ion Ratio Lower Upper

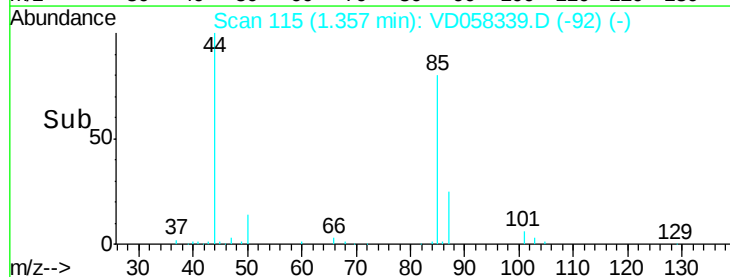
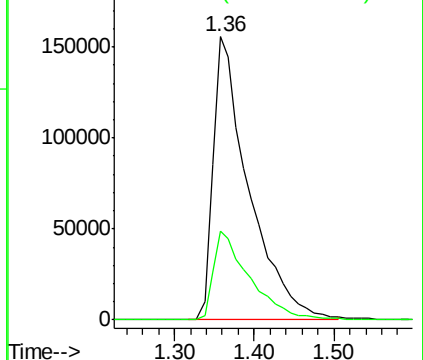
85 100

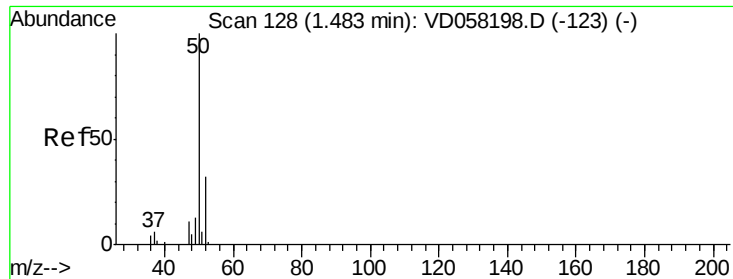
87 31.6 15.7 47.0



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 47.45 ug/l

RT: 1.51 min Scan# 130

Delta R.T. 0.02 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

Instrument :

MSVOA_D

ClientSampleId :

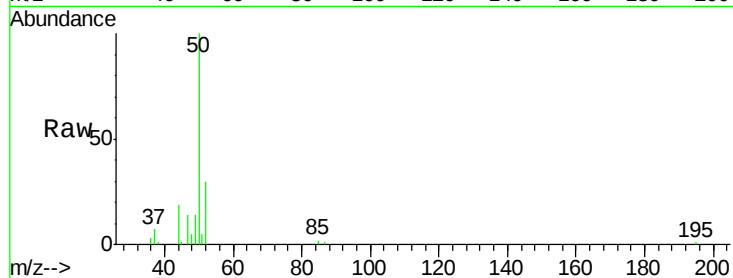
VSTDCCC050

Tot Ion: 50 Resp: 202518

Ion Ratio Lower Upper

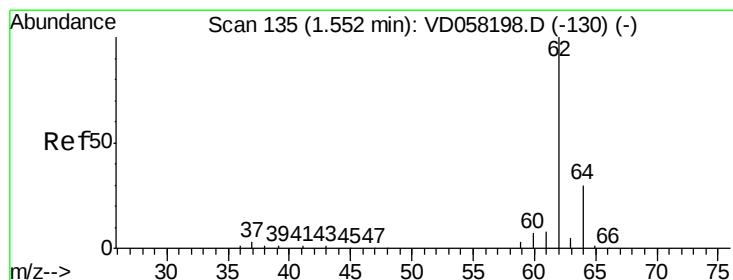
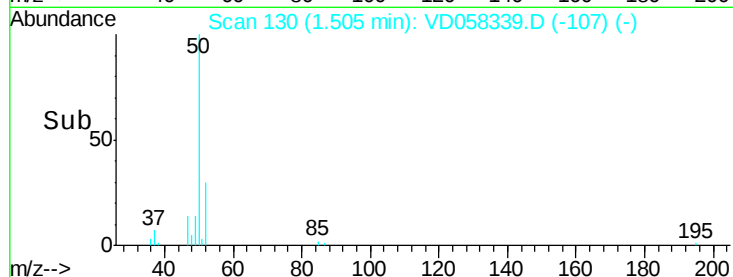
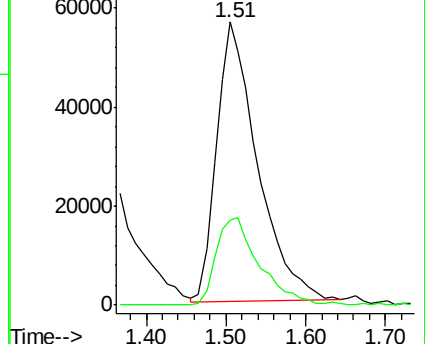
50 100

52 30.0 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: 44.16 ug/l

RT: 1.57 min Scan# 137

Delta R.T. 0.02 min

Lab File: VD058339.D

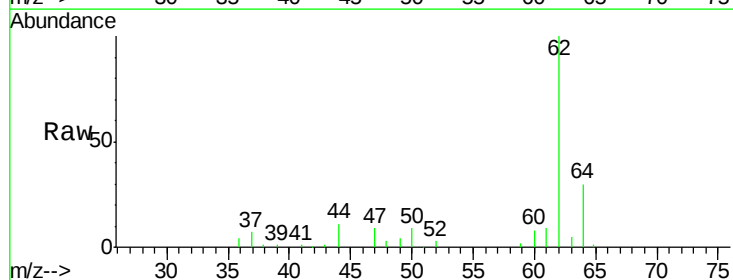
Acq: 23 Jun 2018 14:03

Tgt Ion: 62 Resp: 225161

Ion Ratio Lower Upper

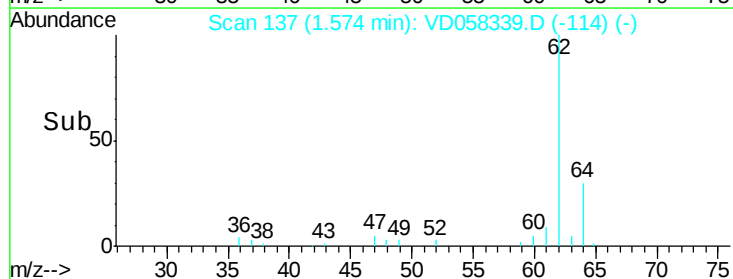
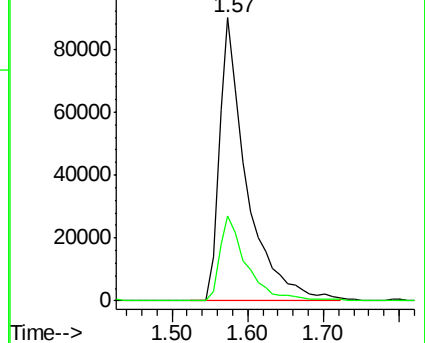
62 100

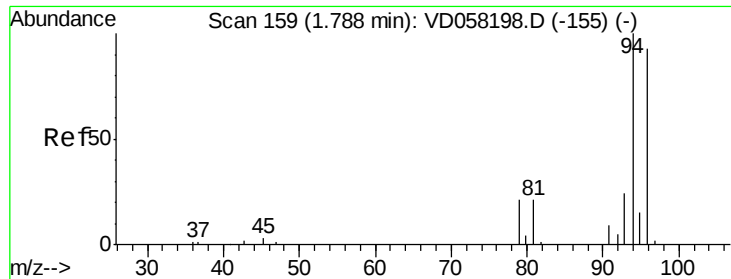
64 30.0 24.4 36.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 53.95 ug/l

RT: 1.82 min Scan# 162

Delta R.T. 0.03 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

Instrument :

MSVOA_D

ClientSampleId :

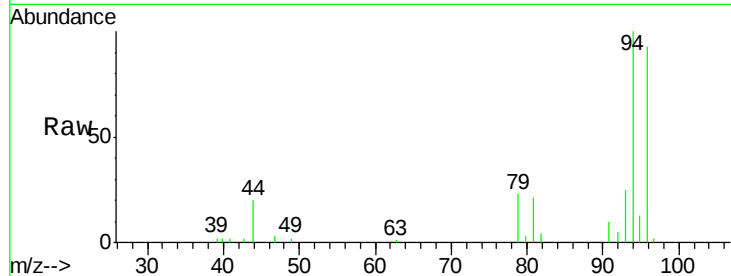
VSTDCCC050

Tot Ion: 94 Resp: 91138

Ion Ratio Lower Upper

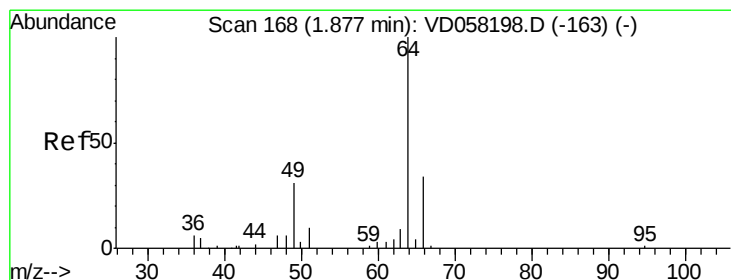
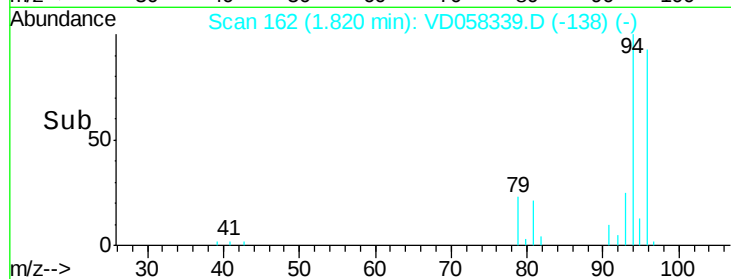
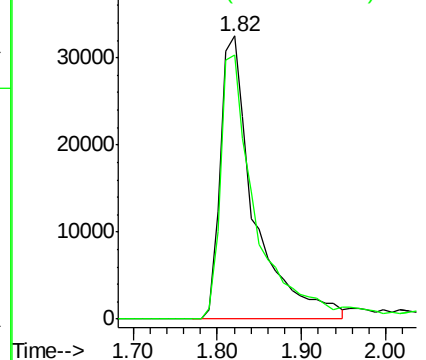
94 100

96 93.4 74.2 111.2



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 61.30 ug/l

RT: 1.90 min Scan# 170

Delta R.T. 0.02 min

Lab File: VD058339.D

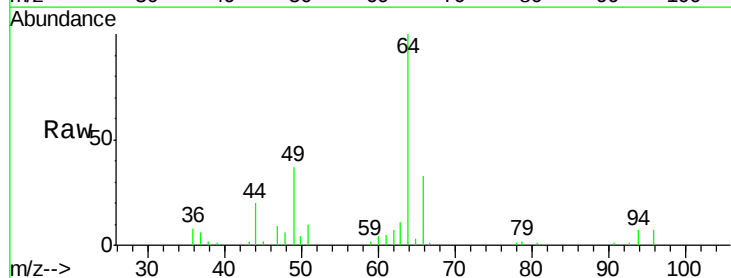
Acq: 23 Jun 2018 14:03

Tgt Ion: 64 Resp: 110941

Ion Ratio Lower Upper

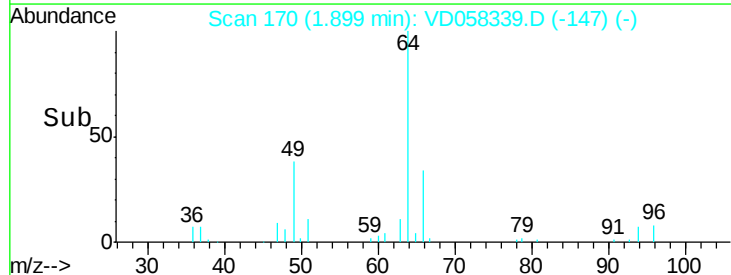
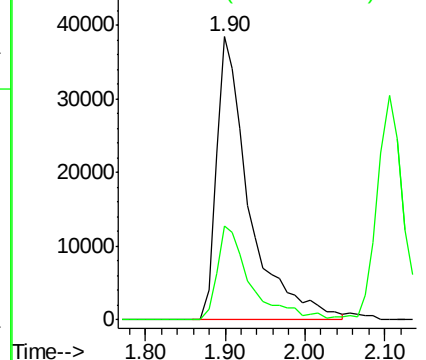
64 100

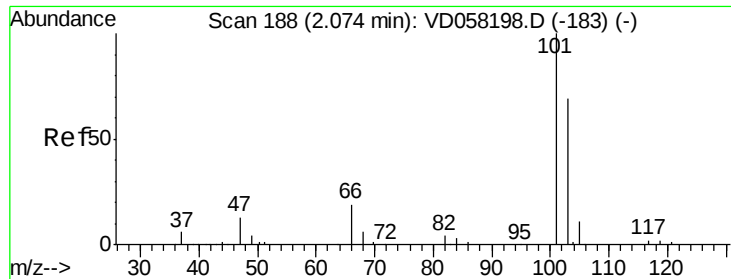
66 33.0 27.3 40.9



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



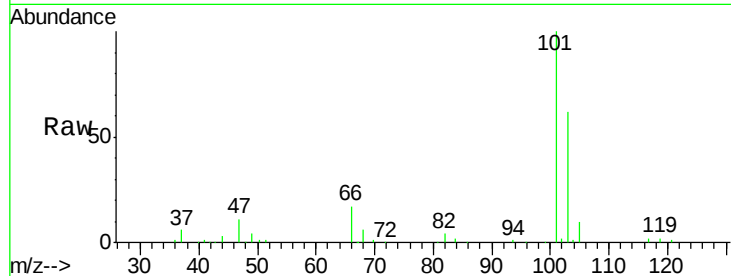


#7

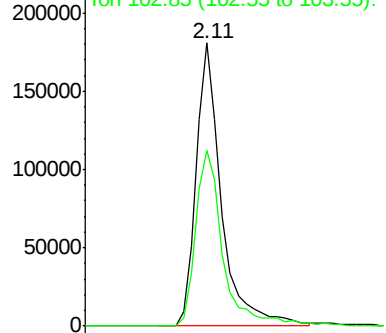
Trichlorofluoromethane
 Concen: 58.14 ug/l
 RT: 2.11 min Scan# 191
 Delta R.T. 0.03 min
 Lab File: VD058339.D
 Acq: 23 Jun 2018 14:03

Instrument :
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 ClientSampleId :
 VSTDCCC050

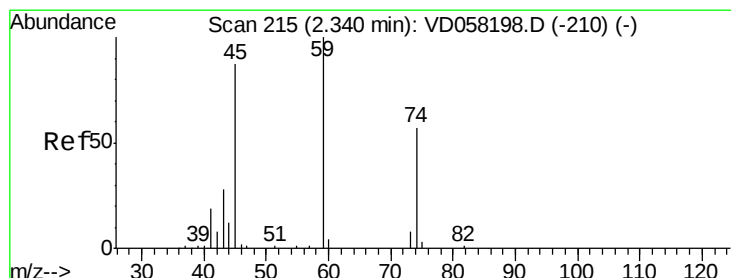
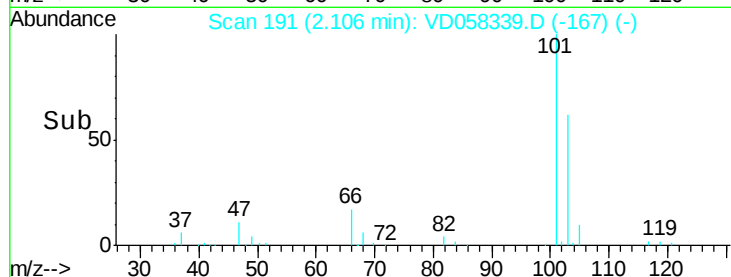
Tot Ion:101 Resp: 406507
 Ion Ratio Lower Upper
 101 100
 103 62.1 55.1 82.7



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



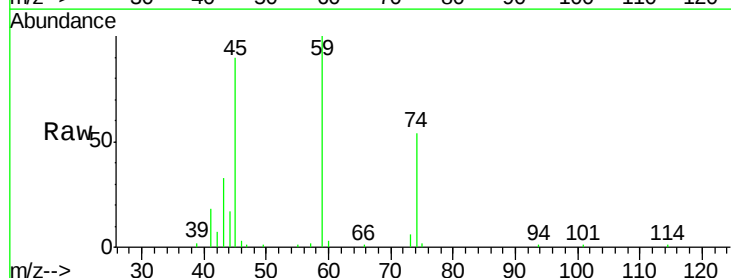
Time-->



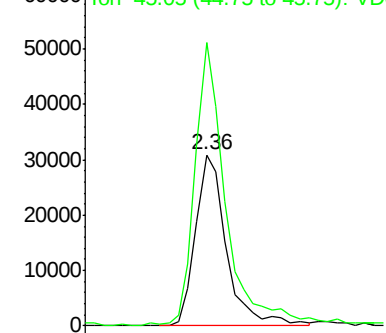
#8

Diethyl Ether
 Concen: 47.46 ug/l
 RT: 2.36 min Scan# 217
 Delta R.T. 0.02 min
 Lab File: VD058339.D
 Acq: 23 Jun 2018 14:03

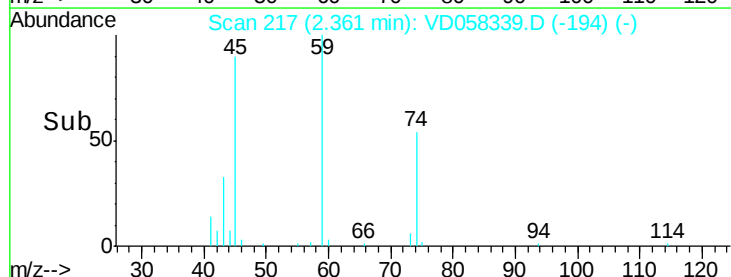
Tgt Ion: 74 Resp: 70194
 Ion Ratio Lower Upper
 74 100
 45 165.3 77.5 232.6

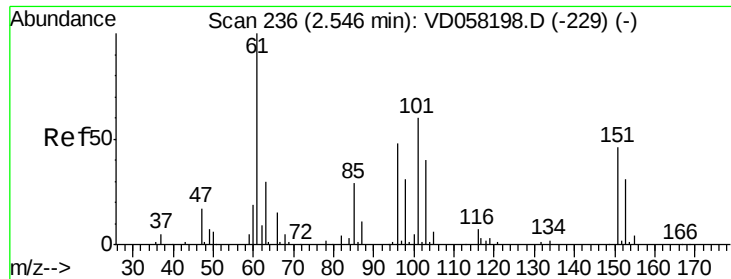


Abundance Ion 74.00 (73.70 to 74.70): VDC
 Ion 45.05 (44.75 to 45.75): VDC



Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 56.26 ug/l

RT: 2.58 min Scan# 239

Delta R.T. 0.03 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

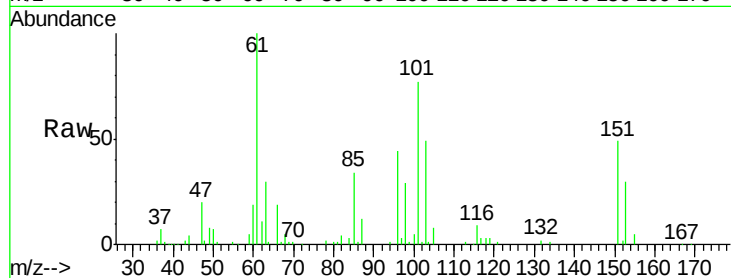
Tot Ion:101 Resp: 250079

Ion Ratio Lower Upper

101 100

85 44.9 39.0 58.4

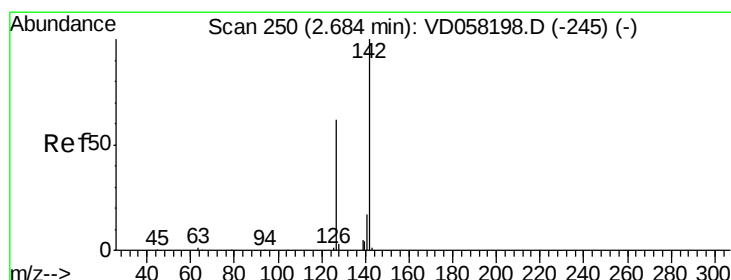
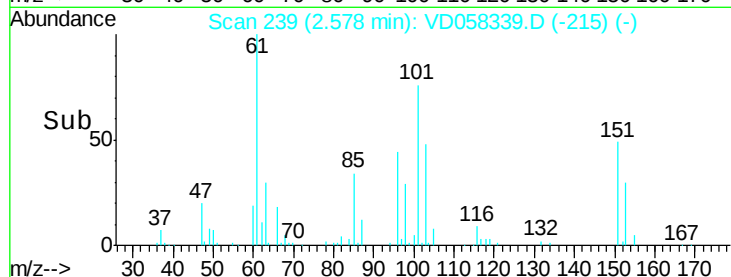
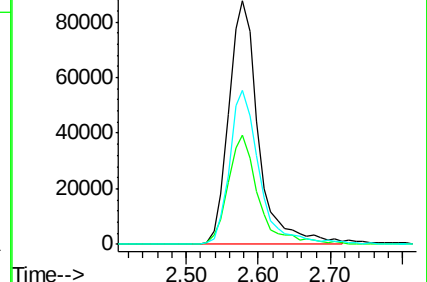
151 63.5 61.8 92.8



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: 49.61 ug/l

RT: 2.72 min Scan# 253

Delta R.T. 0.03 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

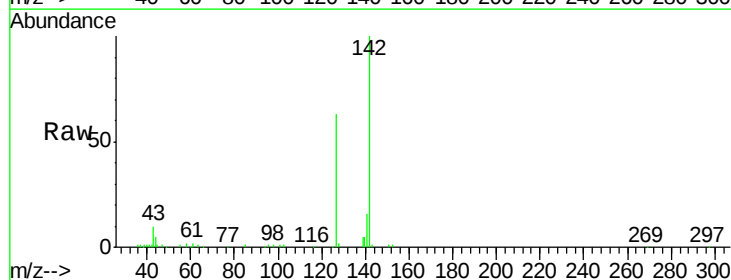
Tgt Ion:142 Resp: 250817

Ion Ratio Lower Upper

142 100

127 62.9 49.4 74.0

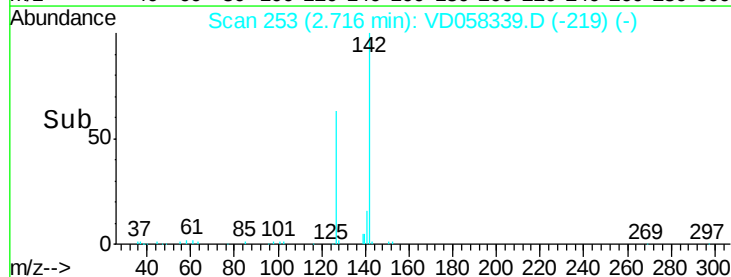
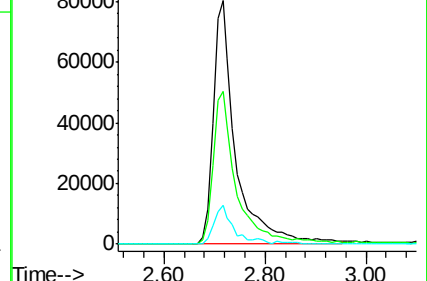
141 16.2 13.5 20.3



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

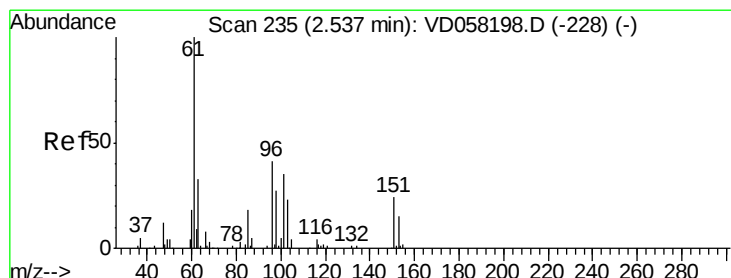
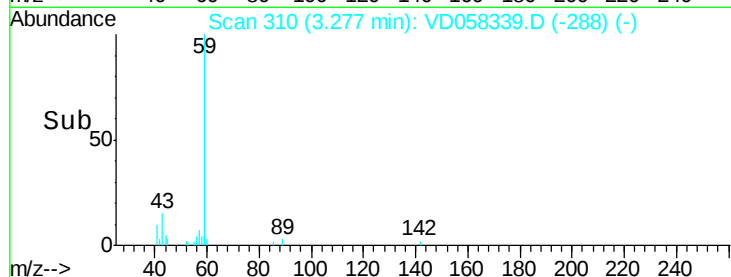
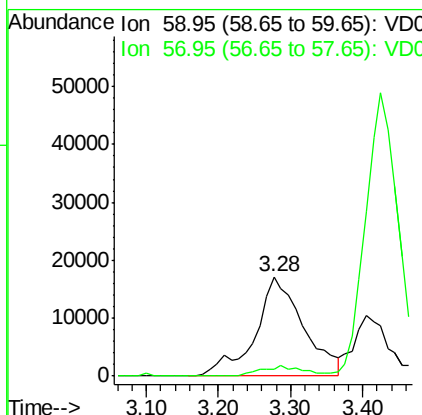
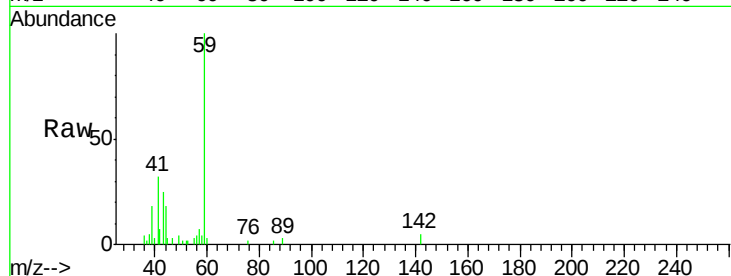




#11
Tert butyl alcohol
Concen: 244.53 ug/l
RT: 3.28 min Scan# 310
Delta R.T. 0.01 min
Lab File: VD058339.D
Acq: 23 Jun 2018 14:03

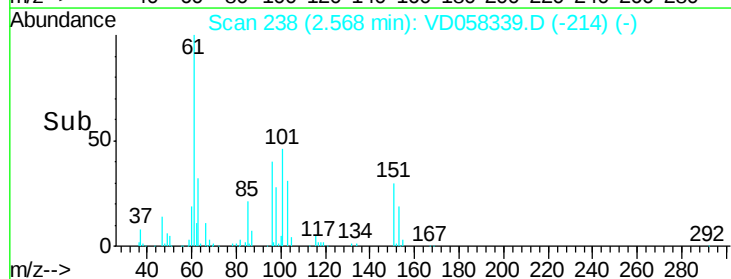
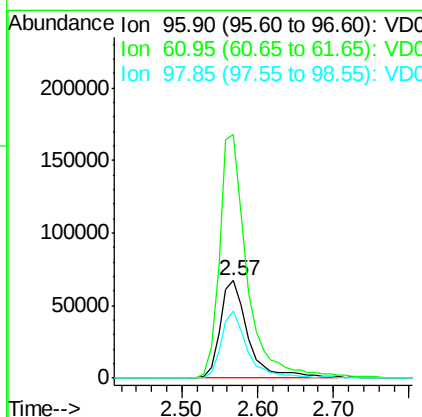
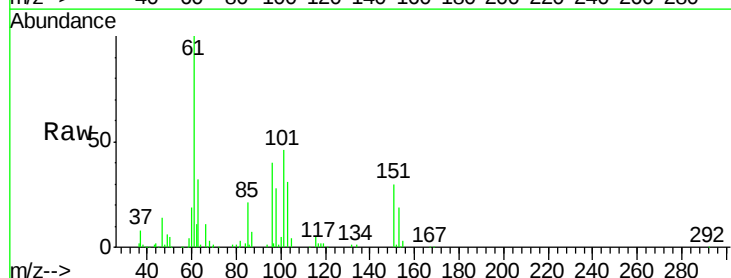
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

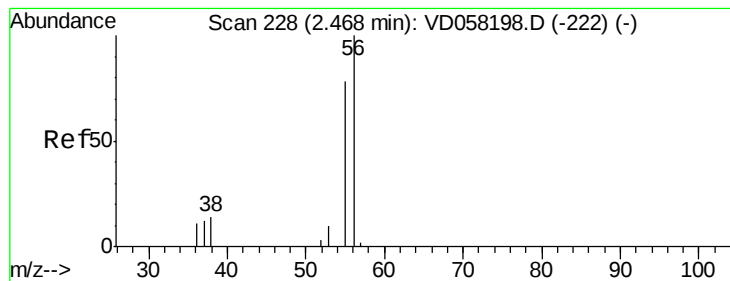
Tot Ion: 59 Resp: 79296
Ion Ratio Lower Upper
59 100
57 6.9 6.2 9.4



#12
1,1-Dichloroethene
Concen: 51.65 ug/l
RT: 2.57 min Scan# 238
Delta R.T. 0.03 min
Lab File: VD058339.D
Acq: 23 Jun 2018 14:03

Tgt Ion: 96 Resp: 172721
Ion Ratio Lower Upper
96 100
61 249.8 193.9 290.9
98 69.0 51.7 77.5





#13

Acrolein

Concen: 127.32 ug/l

RT: 2.49 min Scan# 230

Delta R.T. 0.02 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

Instrument :

MSVOA_D

ClientSampleId :

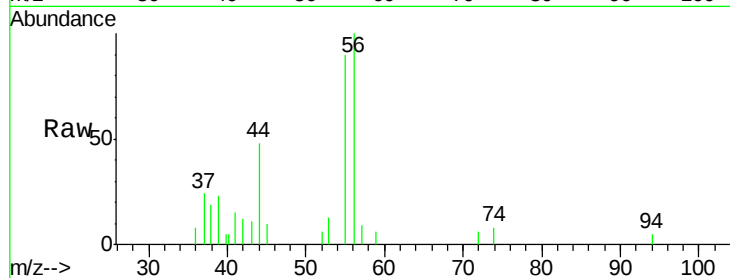
VSTDCCC050

Tot Ion: 56 Resp: 23569

Ion Ratio Lower Upper

56 100

55 90.3 62.1 93.1



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

2.49

8000

6000

4000

2000

0

Time-->

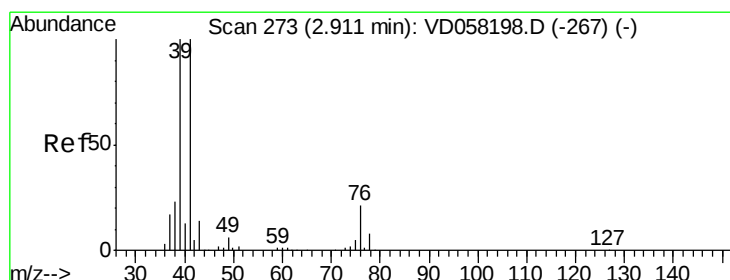
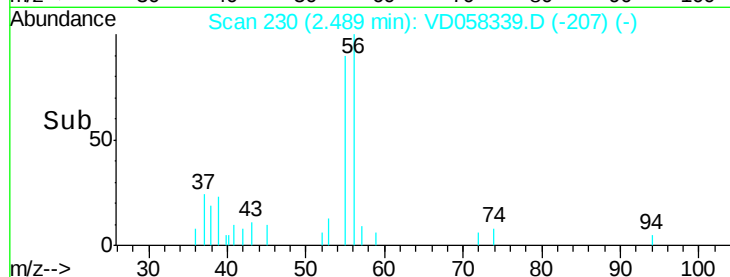
2.40

2.45

2.50

2.55

2.60



#14

Allyl chloride

Concen: 48.21 ug/l

RT: 2.94 min Scan# 276

Delta R.T. 0.03 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

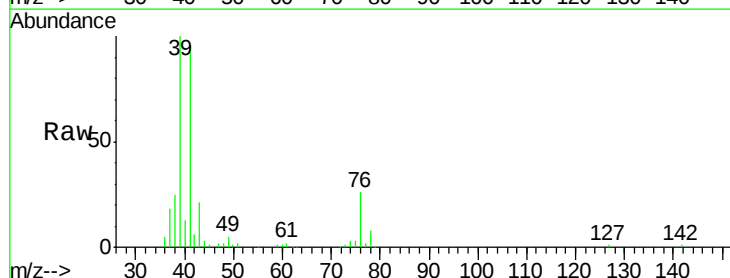
Tgt Ion: 41 Resp: 375213

Ion Ratio Lower Upper

41 100

39 104.3 80.1 120.1

76 27.3 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

2.94

200000

150000

100000

50000

0

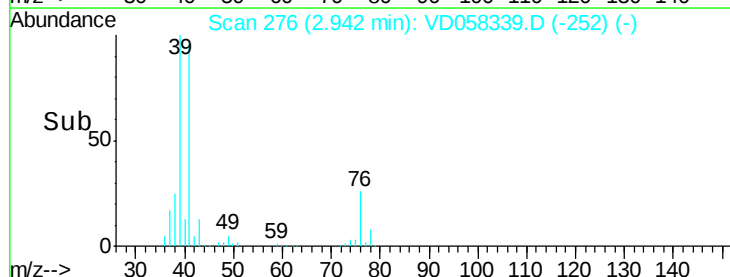
Time-->

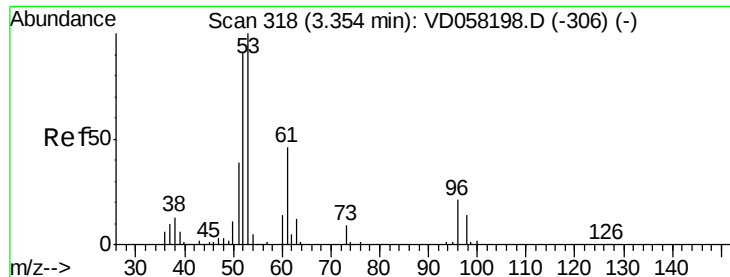
2.80

2.90

3.00

3.10





#15

Acrylonitrile

Concen: 440.96 ug/l

RT: 3.38 min Scan# 320

Delta R.T. 0.02 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

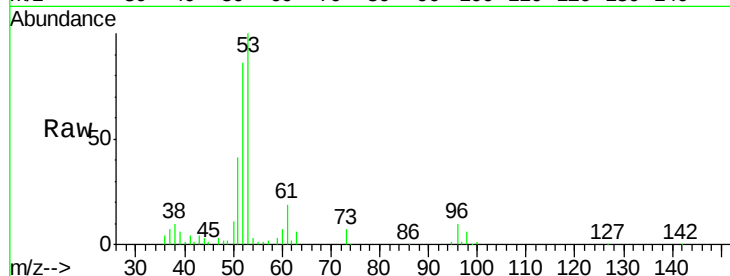
Tot Ion: 53 Resp: 379164

Ion Ratio Lower Upper

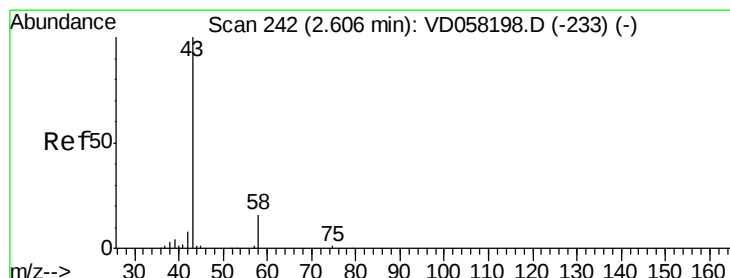
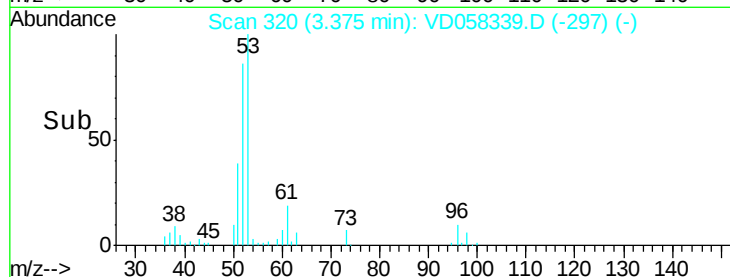
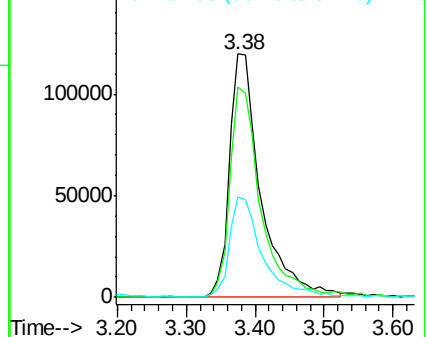
53 100

52 86.5 72.6 108.8

51 41.0 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: 272.77 ug/l

RT: 2.63 min Scan# 244

Delta R.T. 0.02 min

Lab File: VD058339.D

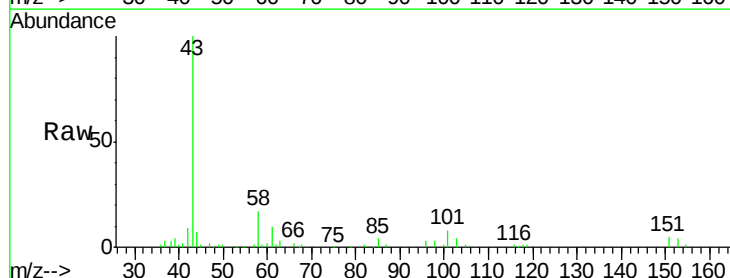
Acq: 23 Jun 2018 14:03

Tgt Ion: 43 Resp: 366776

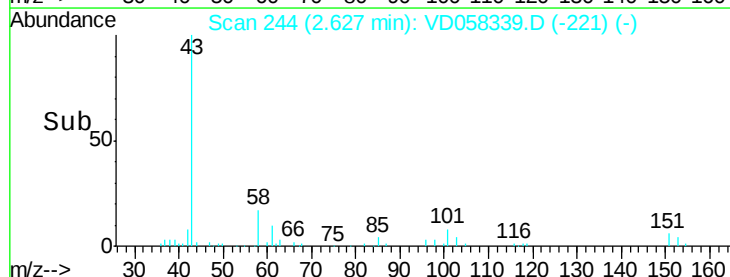
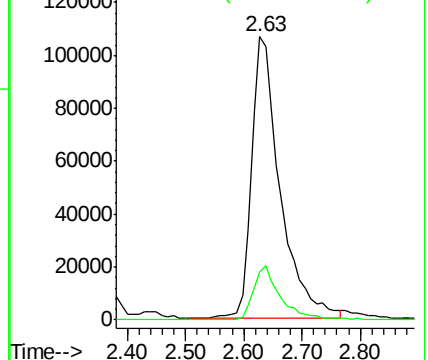
Ion Ratio Lower Upper

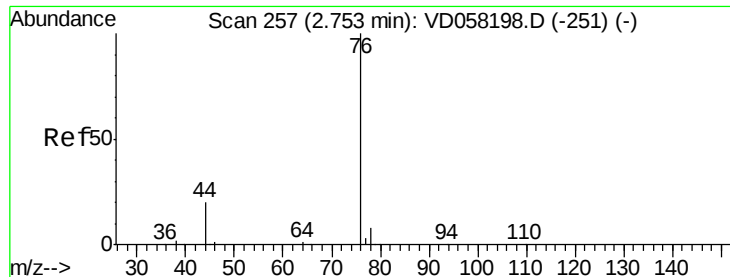
43 100

58 17.1 12.7 19.1



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

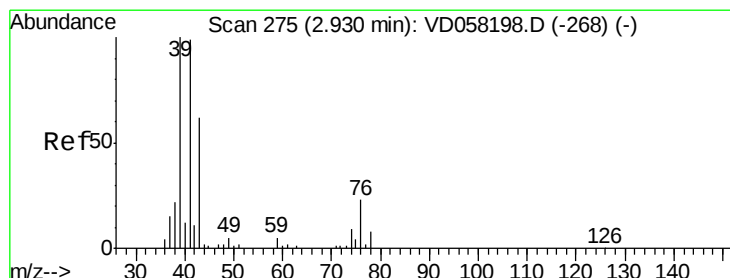
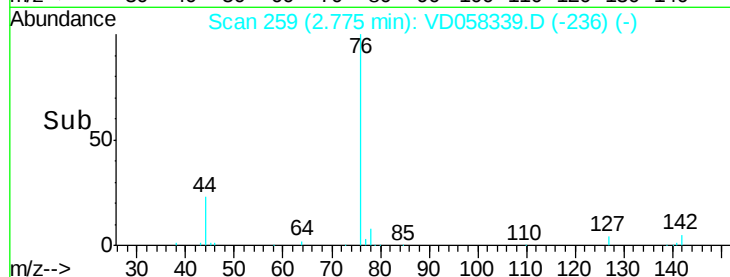
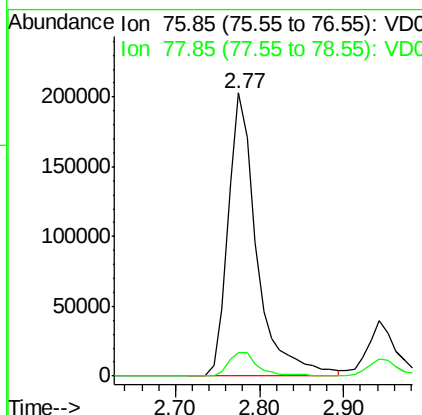
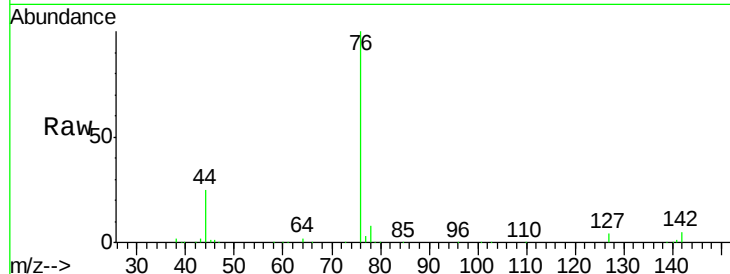




#17
Carbon Disulfide
Concen: 42.23 ug/l
RT: 2.77 min Scan# 259
Delta R.T. 0.02 min
Lab File: VD058339.D
Acq: 23 Jun 2018 14:03

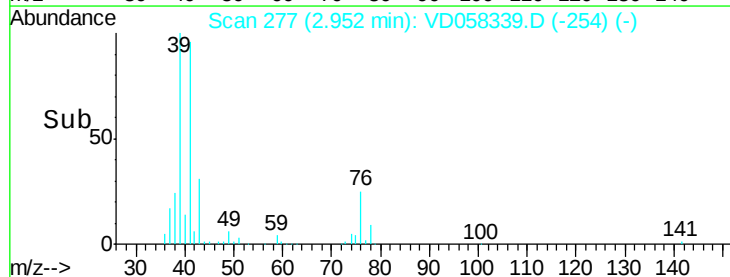
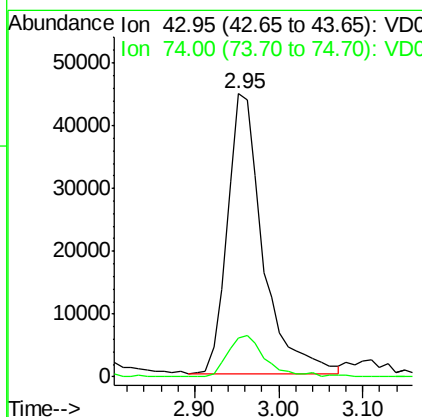
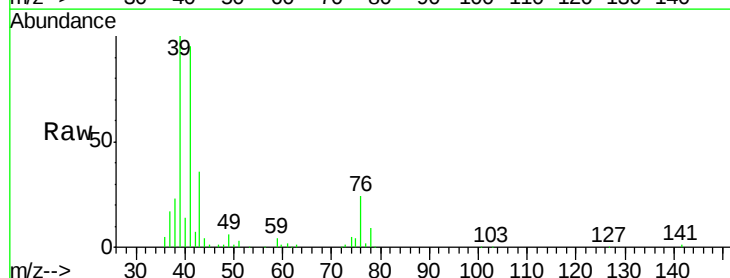
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

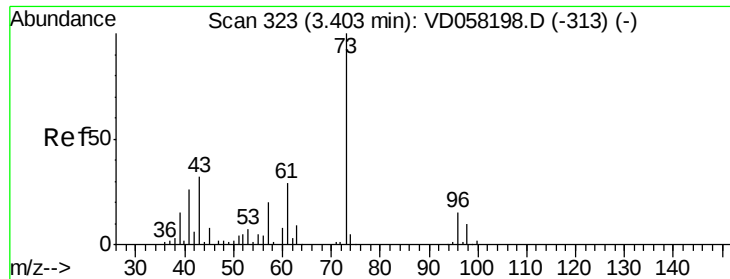
Tot Ion: 76 Resp: 480455
Ion Ratio Lower Upper
76 100
78 8.3 6.8 10.2



#18
Methyl Acetate
Concen: 45.72 ug/l
RT: 2.95 min Scan# 277
Delta R.T. 0.02 min
Lab File: VD058339.D
Acq: 23 Jun 2018 14:03

Tgt Ion: 43 Resp: 131105
Ion Ratio Lower Upper
43 100
74 13.6 11.7 17.5



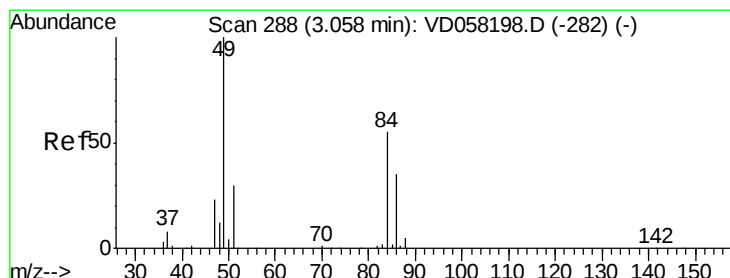
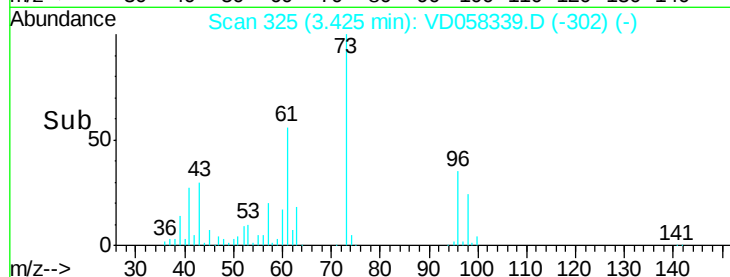
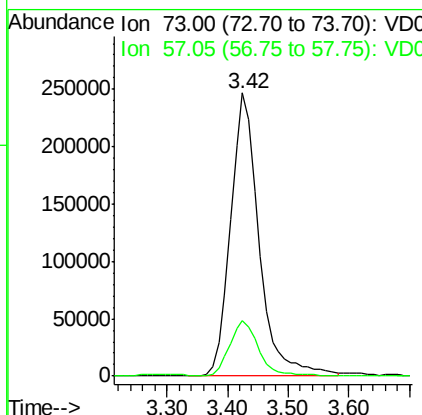
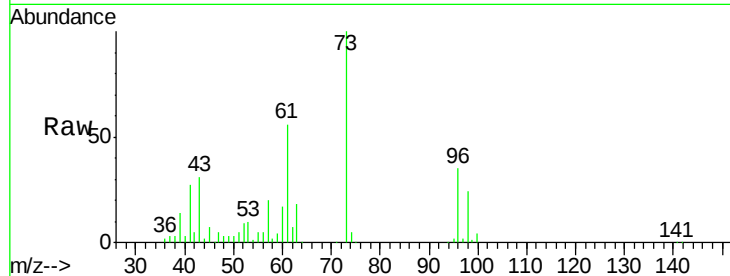


#19

Methyl tert-butyl Ether
 Concen: 91.08 ug/l
 RT: 3.42 min Scan# 325
 Delta R.T. 0.02 min
 Lab File: VD058339.D
 Acq: 23 Jun 2018 14:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

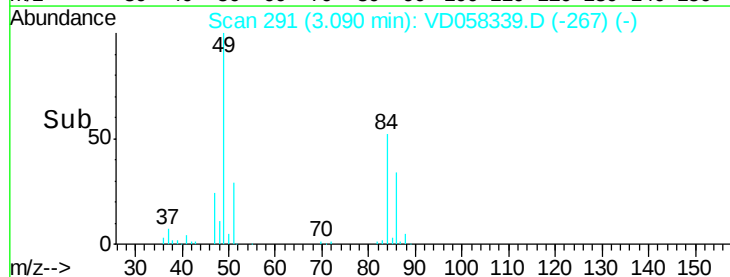
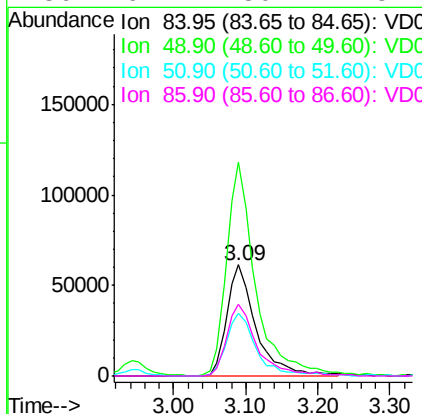
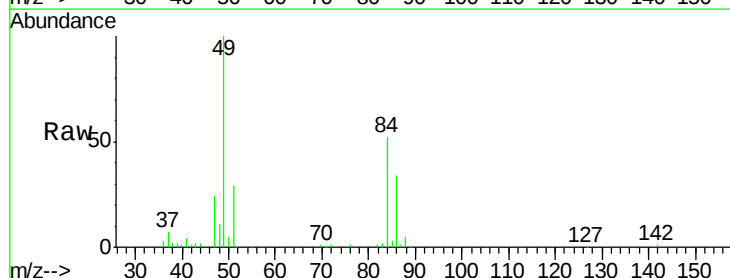
Tot Ion: 73 Resp: 807848
 Ion Ratio Lower Upper
 73 100
 57 19.8 16.6 24.8

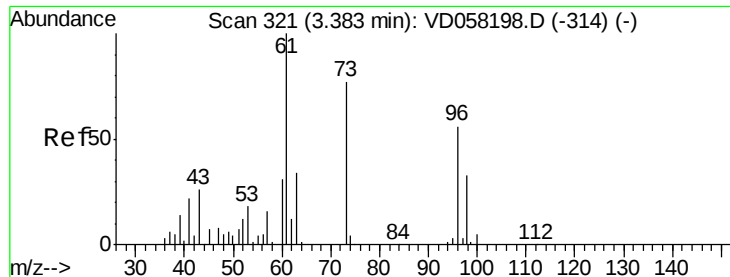


#20

Methylene Chloride
 Concen: 49.22 ug/l
 RT: 3.09 min Scan# 291
 Delta R.T. 0.03 min
 Lab File: VD058339.D
 Acq: 23 Jun 2018 14:03

Tgt Ion: 84 Resp: 173027
 Ion Ratio Lower Upper
 84 100
 49 192.7 145.0 217.6
 51 56.5 42.9 64.3
 86 64.7 50.1 75.1





#21

trans-1,2-Dichloroethene

Concen: 104.60 ug/l

RT: 3.40 min Scan# 323

Delta R.T. 0.02 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

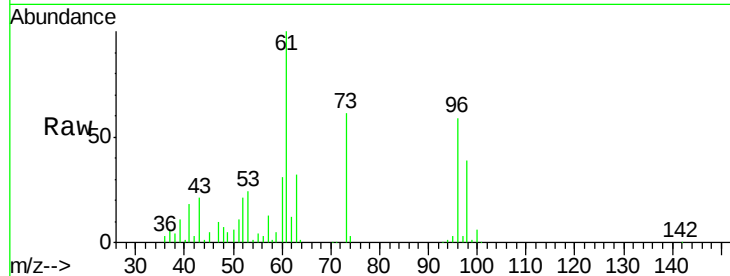
Tot Ion: 96 Resp: 382298

Ion Ratio Lower Upper

96 100

61 169.3 143.8 215.6

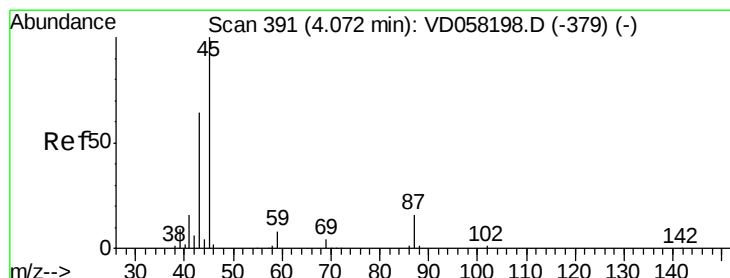
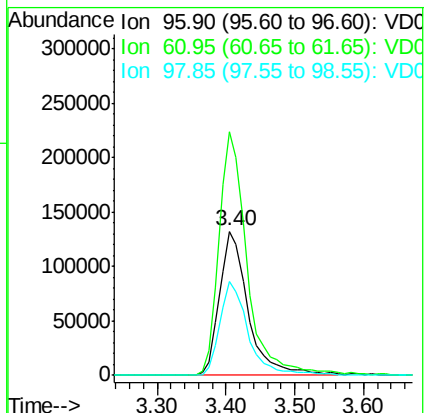
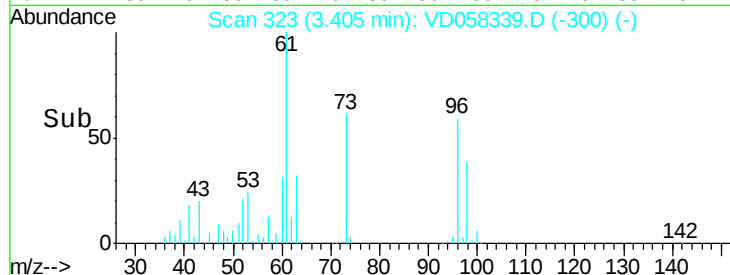
98 65.7 48.0 72.0



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: 45.87 ug/l

RT: 4.09 min Scan# 393

Delta R.T. 0.02 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

Tgt Ion: 45 Resp: 1418000

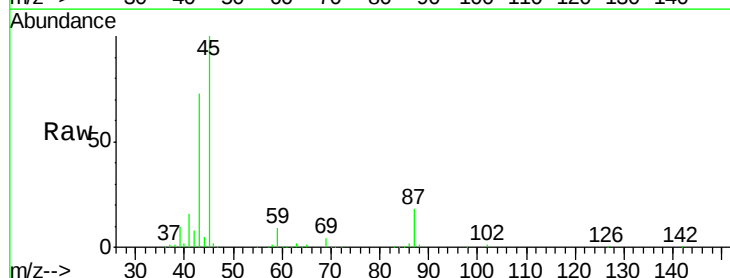
Ion Ratio Lower Upper

45 100

43 72.9 51.4 77.0

87 17.9 13.0 19.4

59 9.0 6.9 10.3

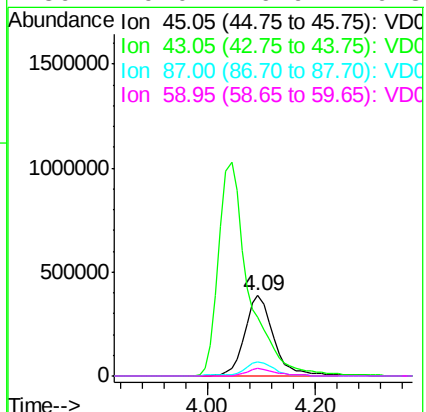
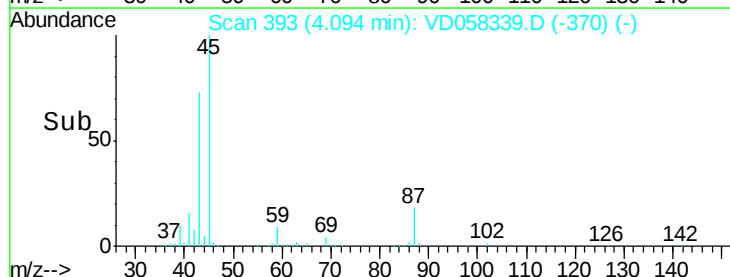


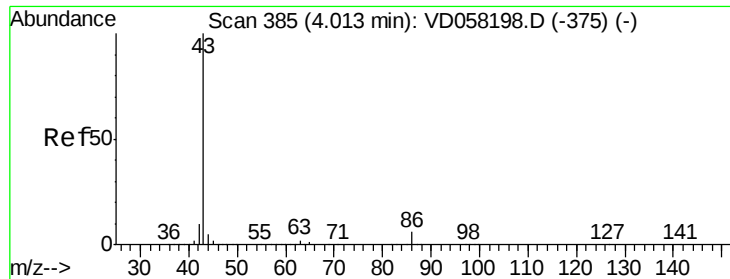
Abundance Ion 45.05 (44.75 to 45.75): VDC

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: 238.27 ug/l

RT: 4.04 min Scan# 388

Delta R.T. 0.03 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

Instrument :

MSVOA_D

ClientSampleId :

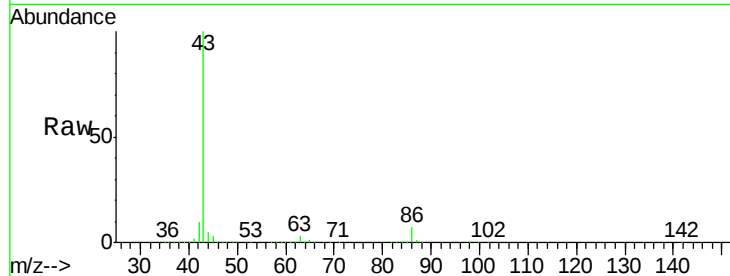
VSTDCCC050

Tot Ion: 43 Resp: 3948468

Ion Ratio Lower Upper

43 100

86 6.9 5.0 7.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

1200000

1000000

800000

600000

400000

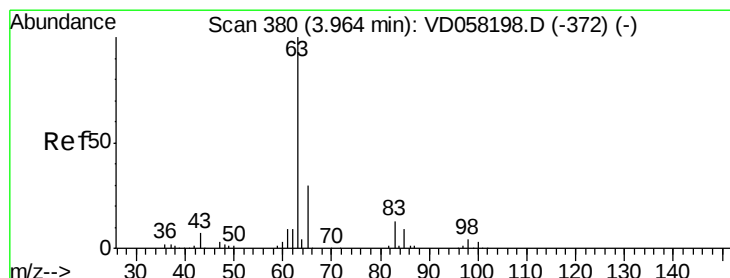
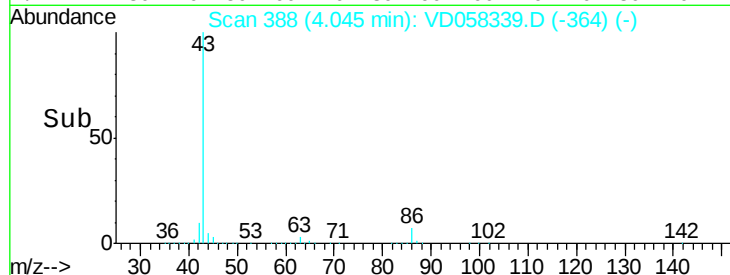
200000

0

Time-->

3.90 4.00 4.10 4.20

4.04



#24

1,1-Dichloroethane

Concen: 50.55 ug/l

RT: 4.00 min Scan# 383

Delta R.T. 0.03 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

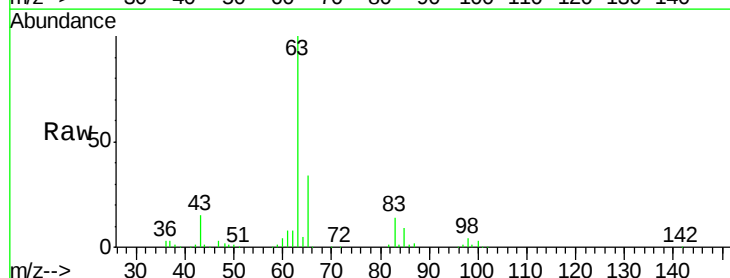
Tgt Ion: 63 Resp: 841863

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

300000

200000

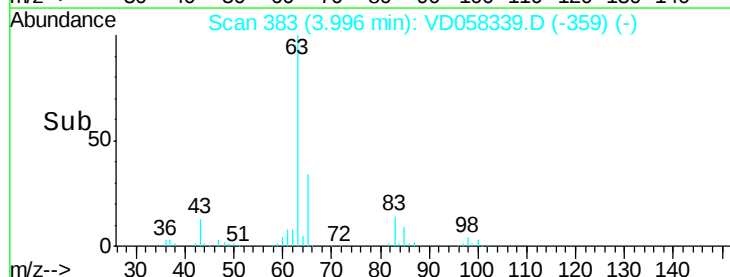
100000

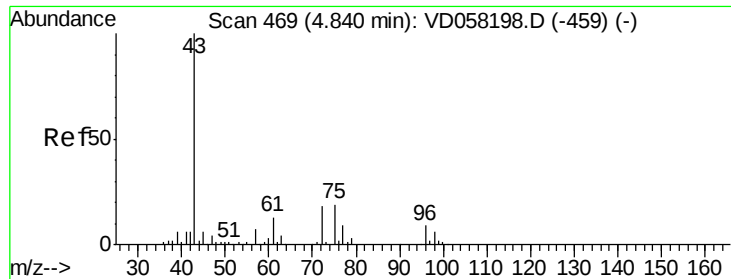
0

Time-->

3.90 4.00 4.10 4.20

4.00





#25

2-Butanone

Concen: 232.02 ug/l

RT: 4.85 min Scan# 470

Delta R.T. 0.01 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

Instrument :

MSVOA_D

ClientSampleId :

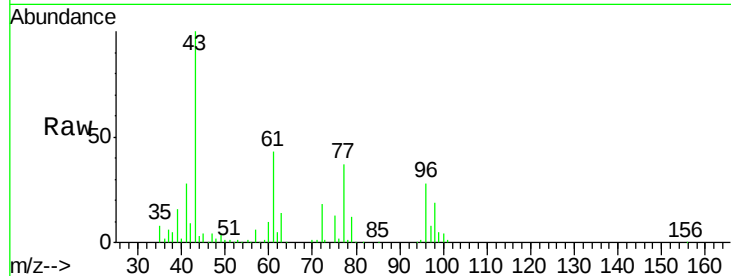
VSTDCCC050

Tot Ion: 43 Resp: 679975

Ion Ratio Lower Upper

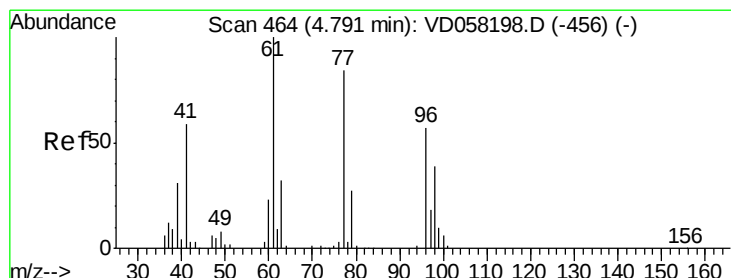
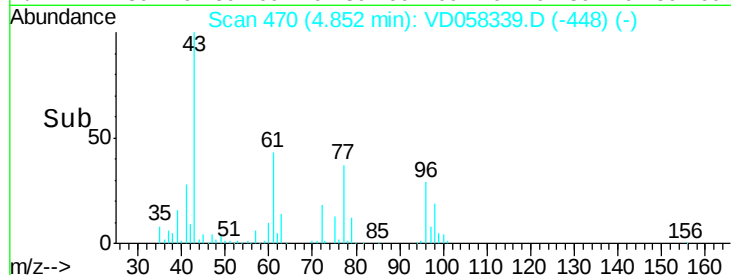
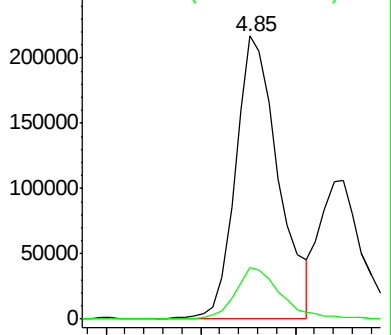
43 100

72 18.1 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: 51.71 ug/l

RT: 4.82 min Scan# 467

Delta R.T. 0.03 min

Lab File: VD058339.D

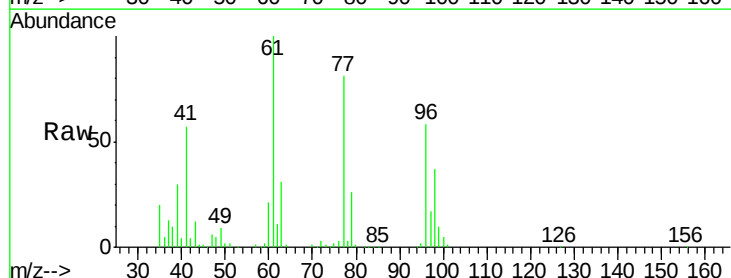
Acq: 23 Jun 2018 14:03

Tgt Ion: 77 Resp: 721174

Ion Ratio Lower Upper

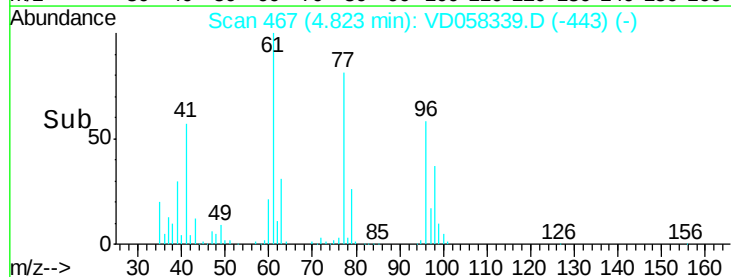
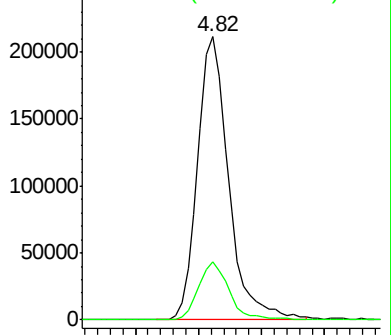
77 100

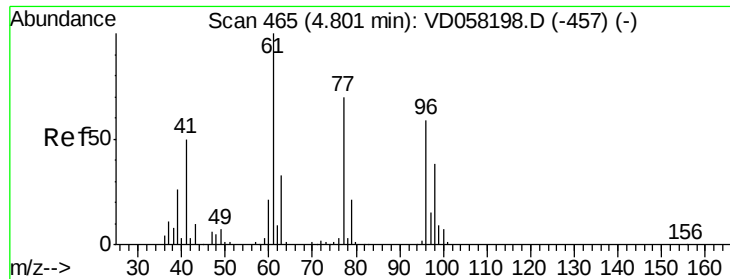
97 20.4 10.5 31.6



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: 50.41 ug/l

RT: 4.82 min Scan# 467

Delta R.T. 0.02 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

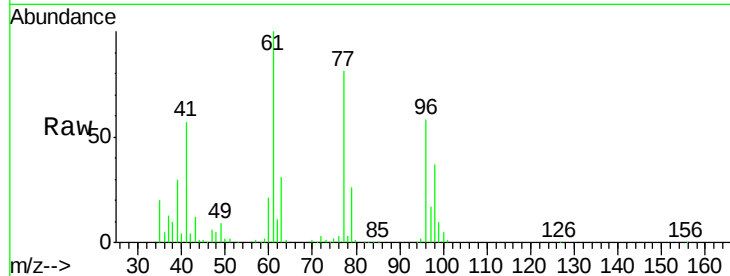
Tot Ion: 96 Resp: 460449

Ion Ratio Lower Upper

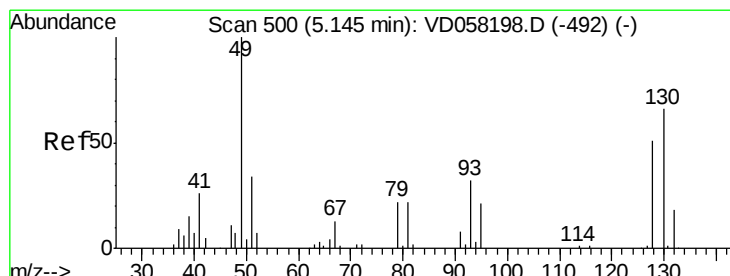
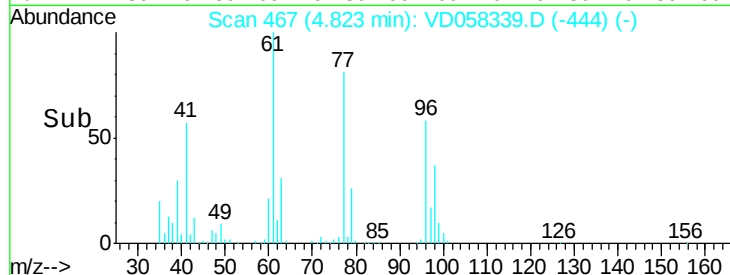
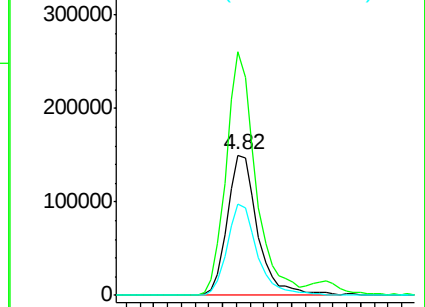
96 100

61 173.5 0.0 338.6

98 64.8 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: 52.74 ug/l

RT: 5.17 min Scan# 502

Delta R.T. 0.02 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

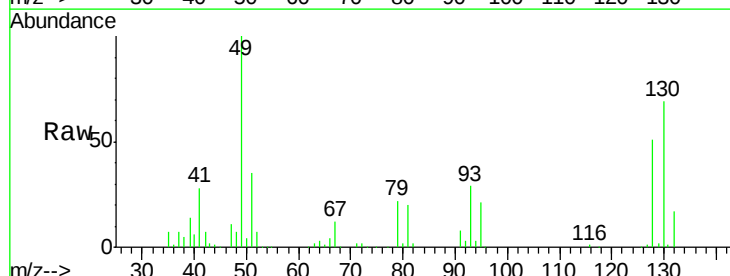
Tgt Ion: 49 Resp: 393785

Ion Ratio Lower Upper

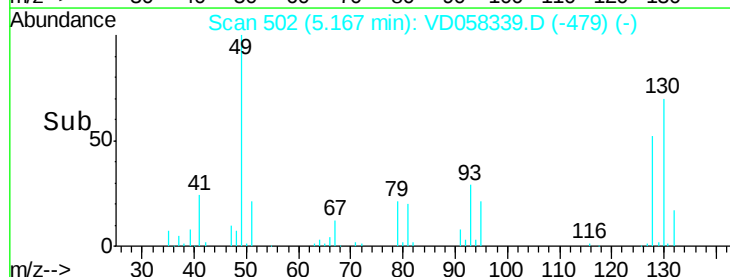
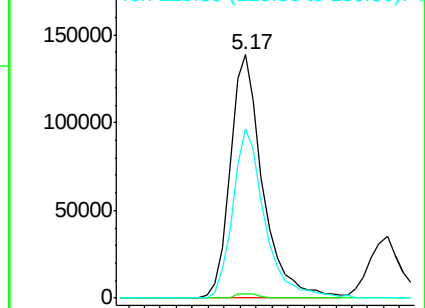
49 100

129 1.6 0.0 0.0#

130 69.5 52.6 79.0



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





#29

Tetrahydrofuran

Concen: 223.53 ug/l

RT: 5.21 min Scan# 506

Delta R.T. 0.02 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

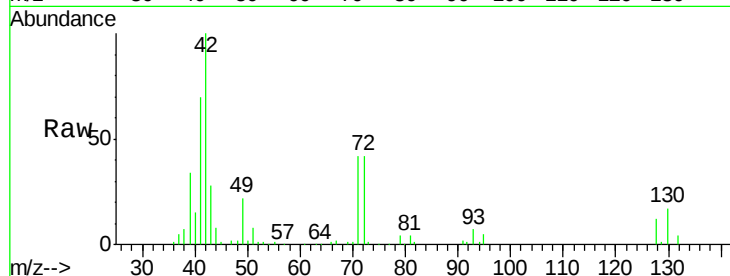
Tot Ion: 42 Resp: 348684

Ion Ratio Lower Upper

42 100

72 40.4 30.2 45.2

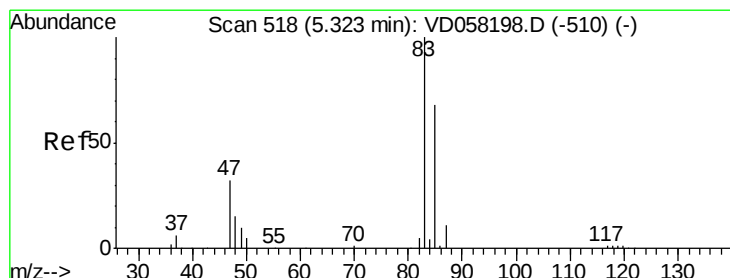
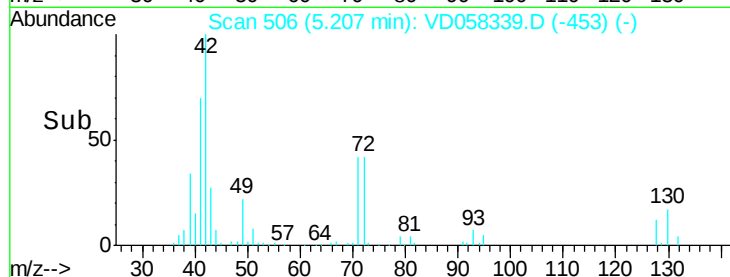
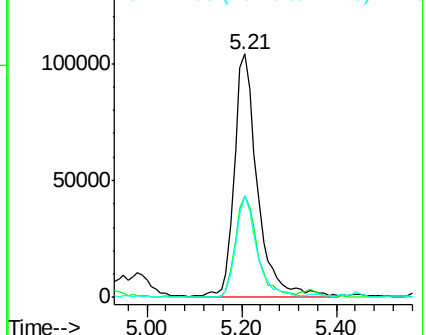
71 38.4 30.1 45.1



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



#30

Chloroform

Concen: 51.06 ug/l

RT: 5.34 min Scan# 520

Delta R.T. 0.02 min

Lab File: VD058339.D

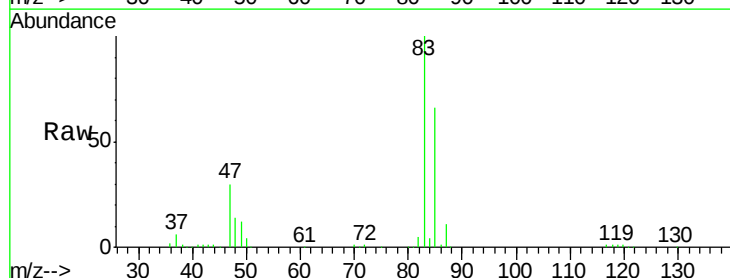
Acq: 23 Jun 2018 14:03

Tgt Ion: 83 Resp: 897812

Ion Ratio Lower Upper

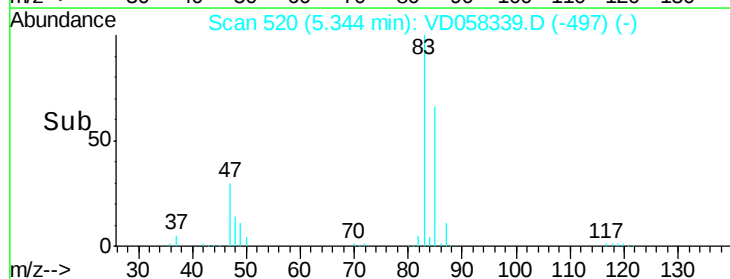
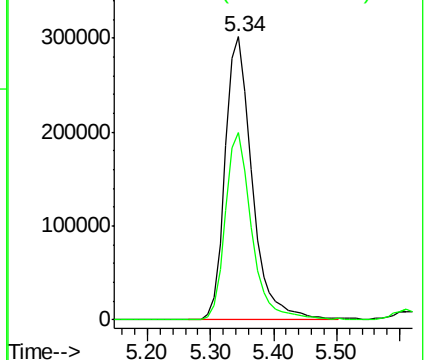
83 100

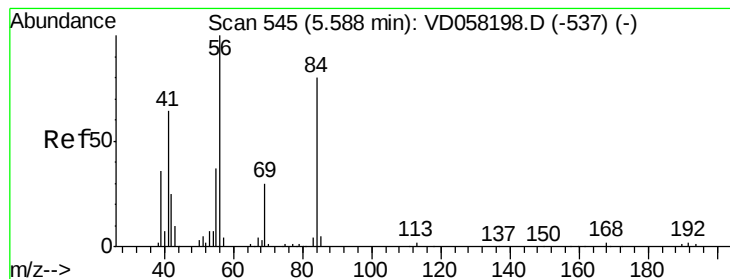
85 66.1 54.8 82.2



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC





#31

Cyclohexane

Concen: 51.79 ug/l

RT: 5.61 min Scan# 547

Delta R.T. 0.02 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

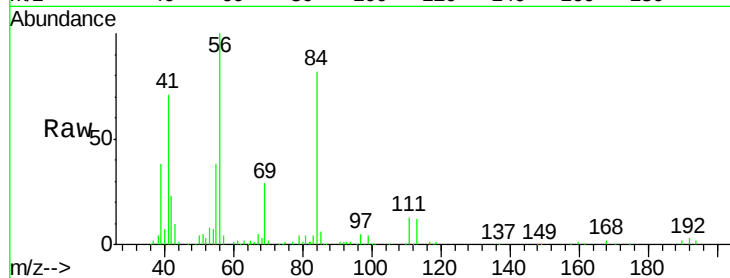
Tot Ion: 56 Resp: 623931

Ion Ratio Lower Upper

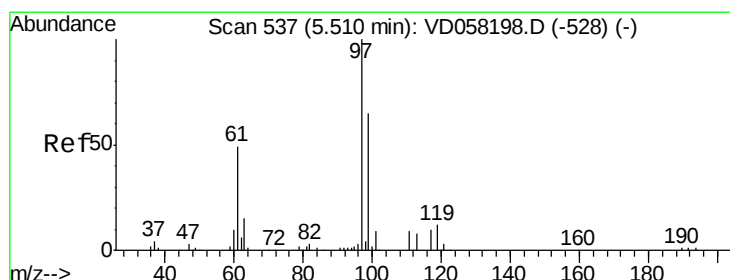
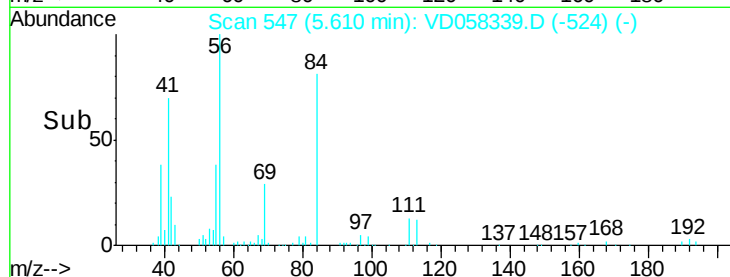
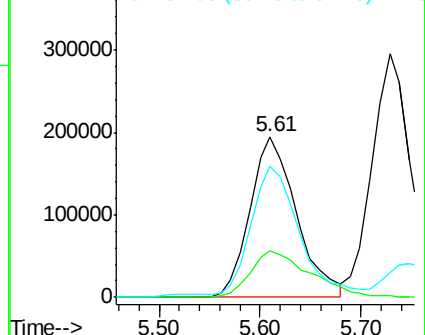
56 100

69 28.8 23.6 35.4

84 81.8 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: 50.78 ug/l

RT: 5.53 min Scan# 539

Delta R.T. 0.02 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

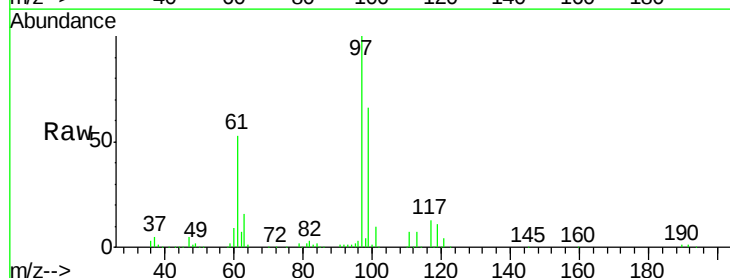
Tgt Ion: 97 Resp: 737625

Ion Ratio Lower Upper

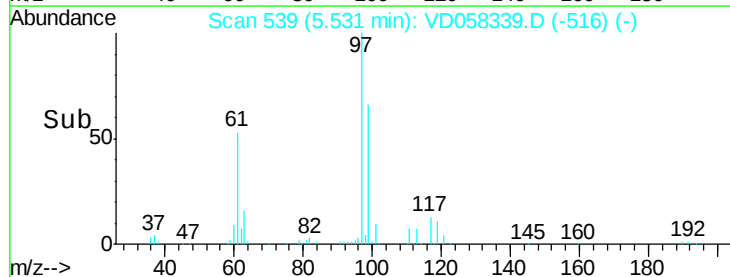
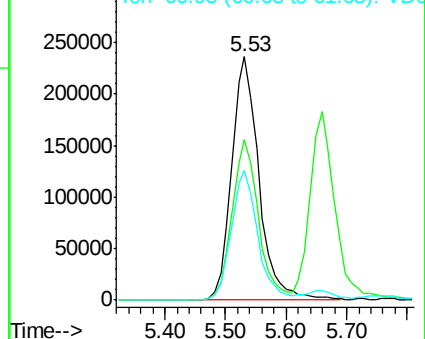
97 100

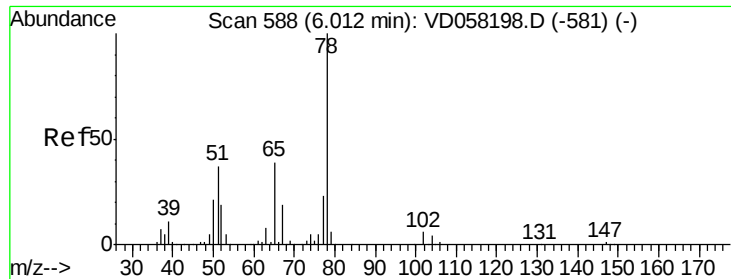
99 66.1 52.2 78.4

61 53.2 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

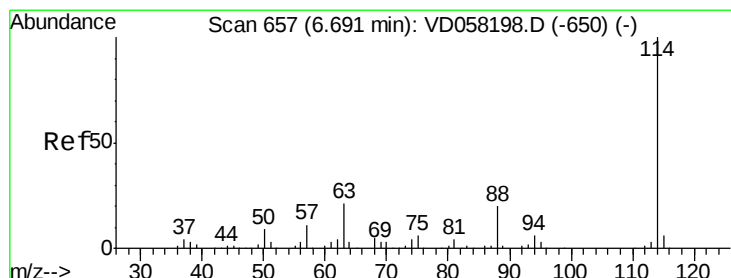
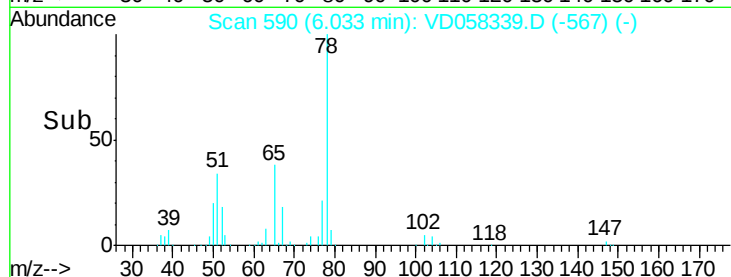
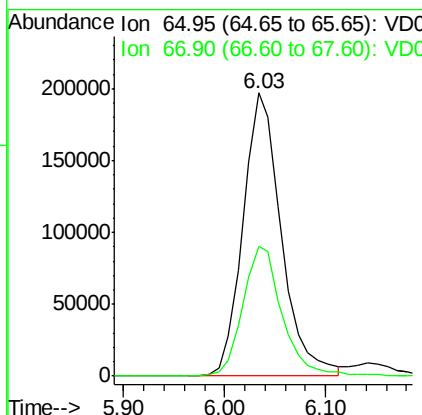
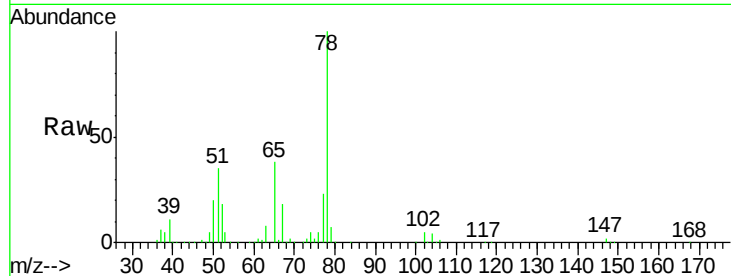




#33
 1,2-Dichloroethane-d4
 Concen: 50.78 ug/l
 RT: 6.03 min Scan# 590
 Delta R.T. 0.02 min
 Lab File: VD058339.D
 Acq: 23 Jun 2018 14:03

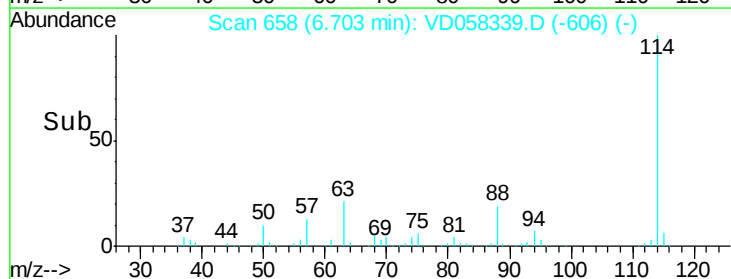
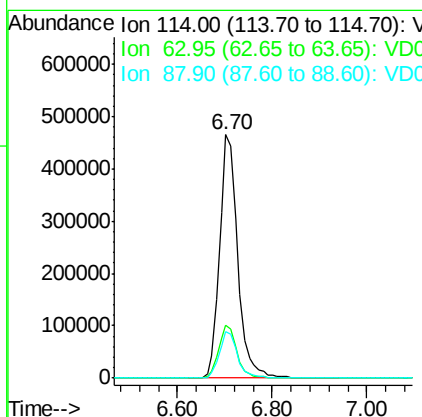
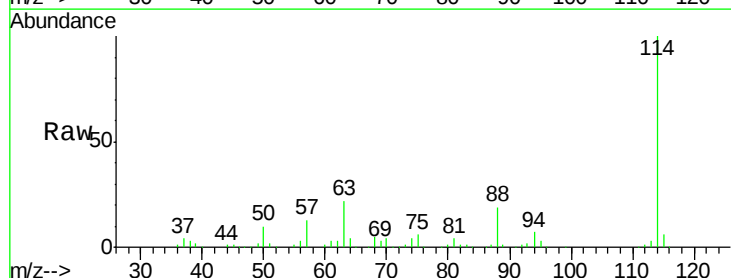
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

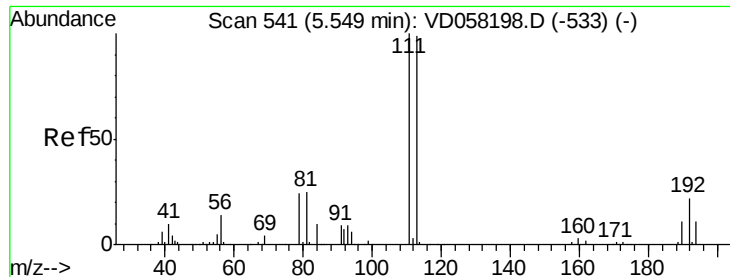
Tot Ion: 65 Resp: 521067
 Ion Ratio Lower Upper
 65 100
 67 45.9 0.0 97.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.70 min Scan# 658
 Delta R.T. 0.01 min
 Lab File: VD058339.D
 Acq: 23 Jun 2018 14:03

Tgt Ion: 114 Resp: 1235441
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 42.6
 88 19.0 0.0 40.6





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 5.57 min Scan# 543

Delta R.T. 0.02 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

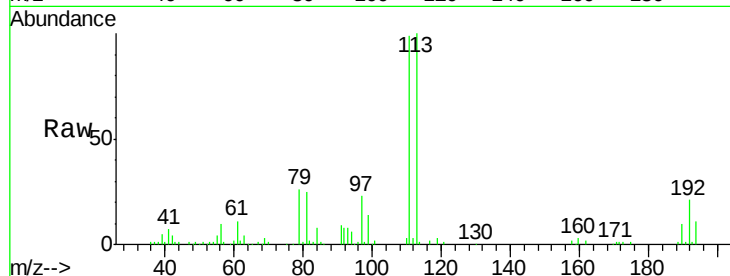
Tot Ion:113 Resp: 551136

Ion Ratio Lower Upper

113 100

111 98.7 80.6 121.0

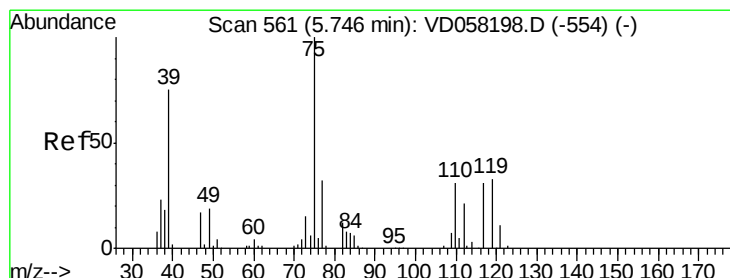
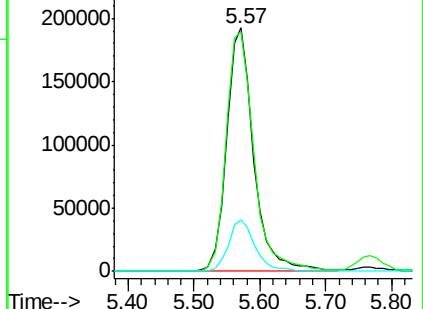
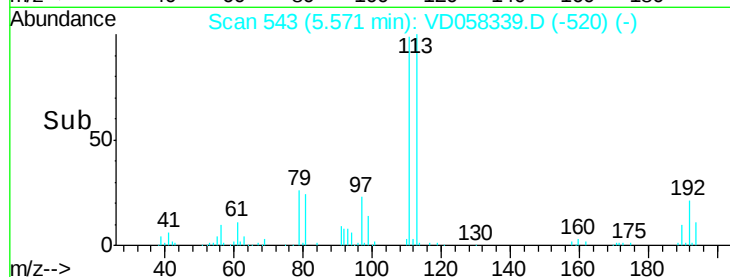
192 21.0 17.8 26.6



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: 51.23 ug/l

RT: 5.77 min Scan# 563

Delta R.T. 0.02 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

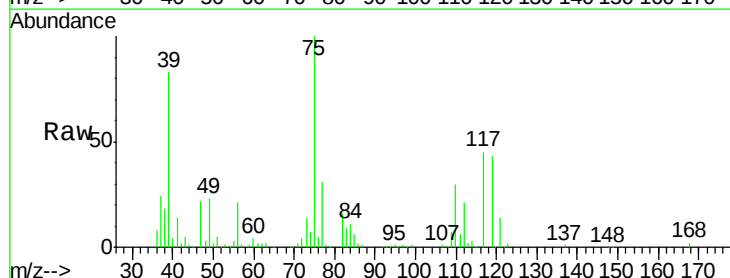
Tgt Ion: 75 Resp: 626090

Ion Ratio Lower Upper

75 100

110 30.4 15.4 46.4

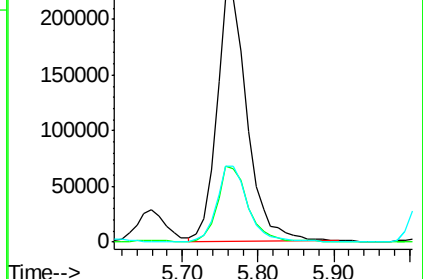
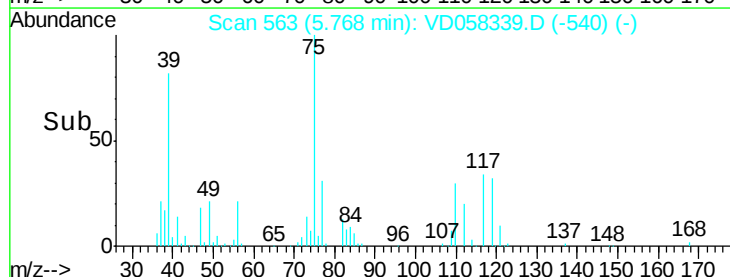
77 31.2 25.4 38.2

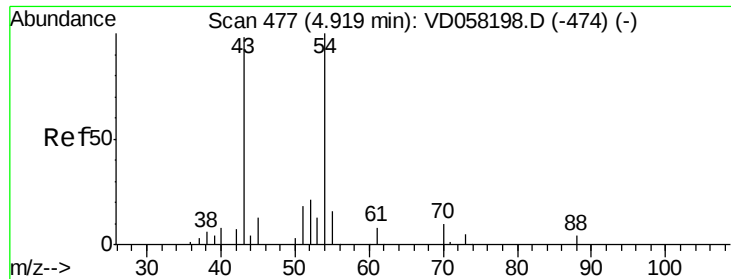


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC

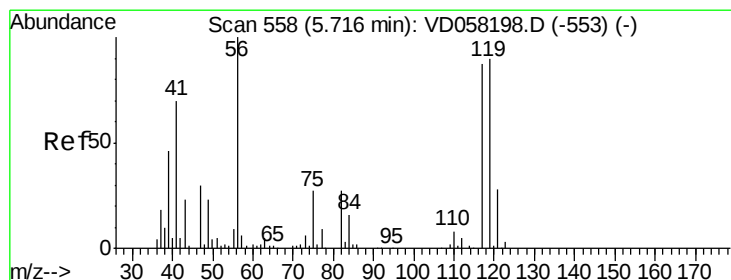
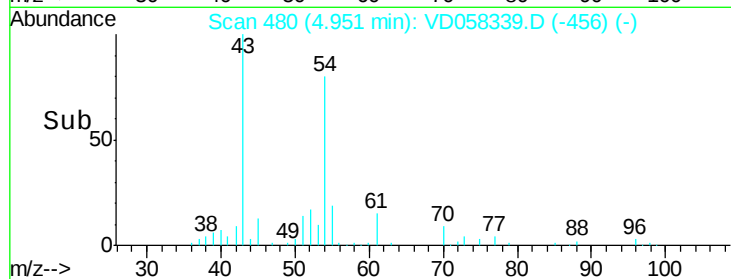
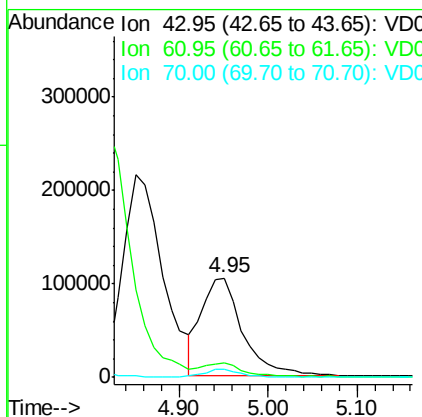
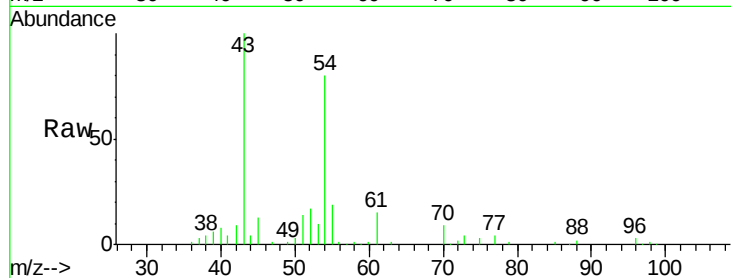




#37
Ethyl Acetate
Concen: 48.34 ug/l
RT: 4.95 min Scan# 480
Delta R.T. 0.03 min
Lab File: VD058339.D
Acq: 23 Jun 2018 14:03

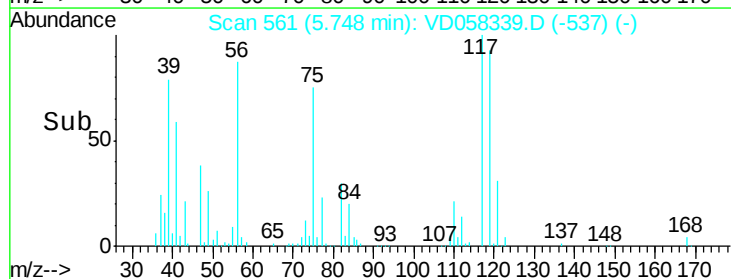
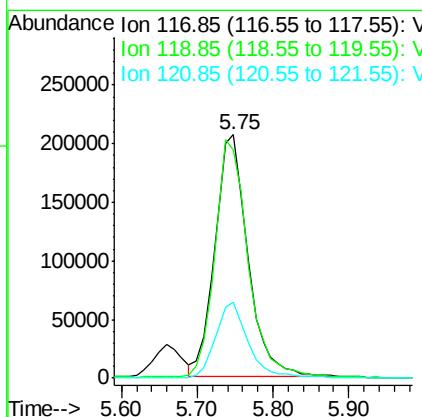
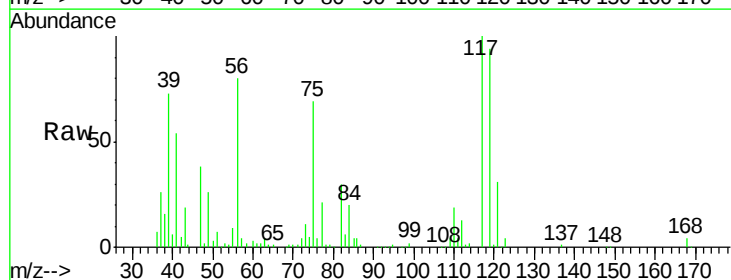
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

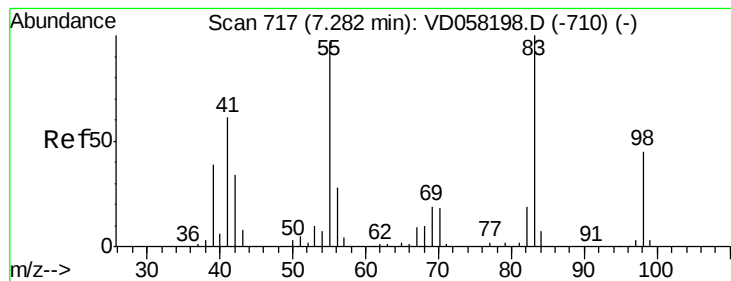
Tot Ion: 43 Resp: 336595
Ion Ratio Lower Upper
43 100
61 14.7 10.3 15.5
70 8.7 5.7 8.5#



#38
Carbon Tetrachloride
Concen: 51.48 ug/l
RT: 5.75 min Scan# 561
Delta R.T. 0.03 min
Lab File: VD058339.D
Acq: 23 Jun 2018 14:03

Tgt Ion: 117 Resp: 625107
Ion Ratio Lower Upper
117 100
119 93.5 78.8 118.2
121 31.1 25.0 37.6





#39

Methvlcvclohexane

Concen: 47.98 ug/l

RT: 7.30 min Scan# 719

Delta R.T. 0.02 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

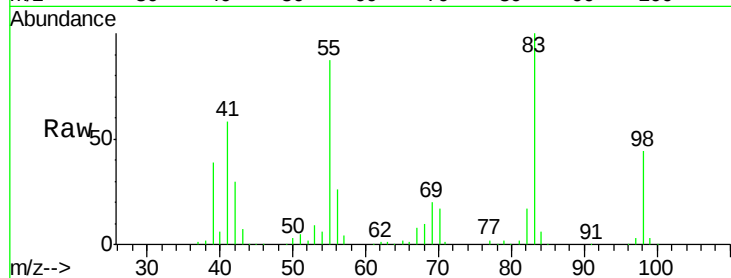
Tot Ion: 83 Resp: 571186

Ion Ratio Lower Upper

83 100

55 87.2 77.4 116.2

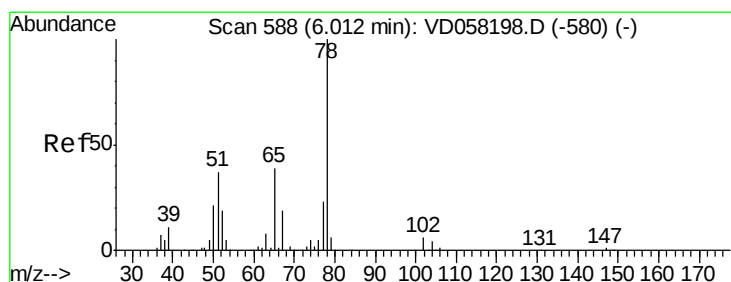
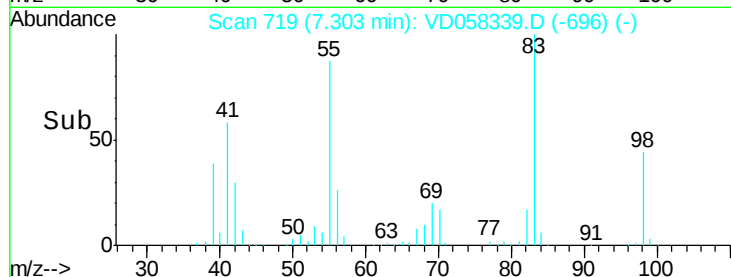
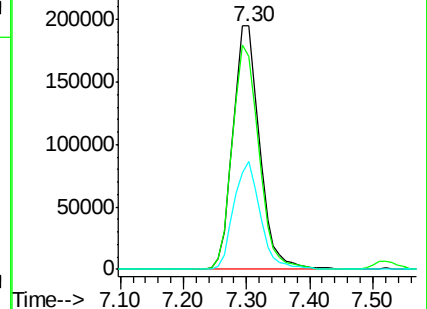
98 44.3 35.9 53.9



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: 50.76 ug/l

RT: 6.03 min Scan# 590

Delta R.T. 0.02 min

Lab File: VD058339.D

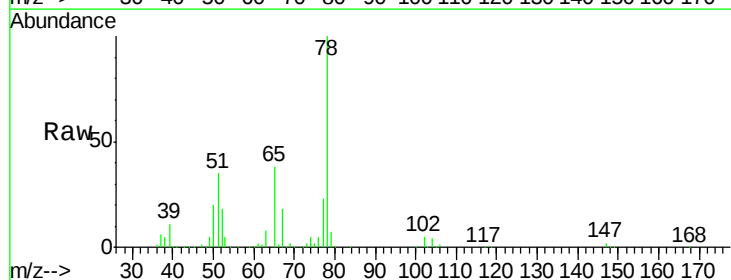
Acq: 23 Jun 2018 14:03

Tgt Ion: 78 Resp: 1477837

Ion Ratio Lower Upper

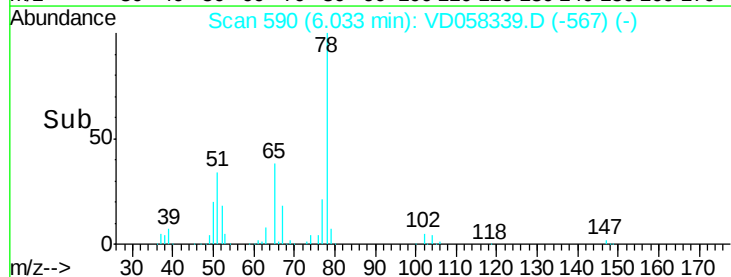
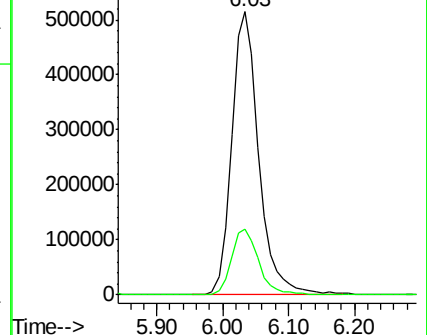
78 100

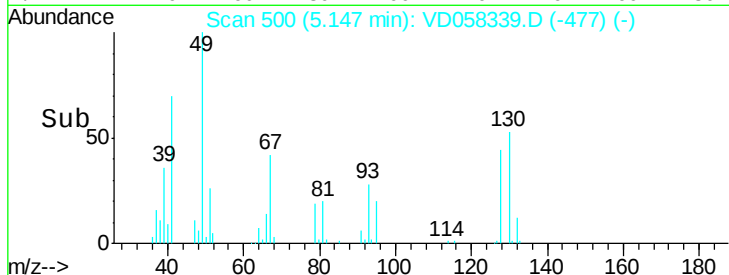
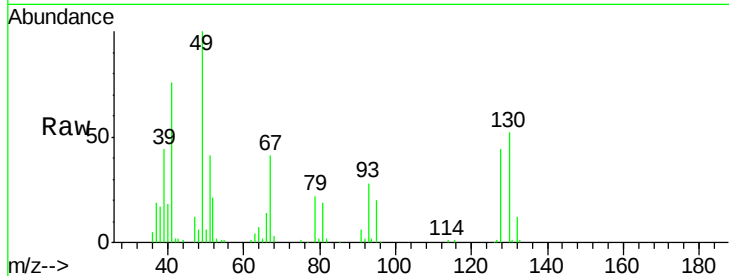
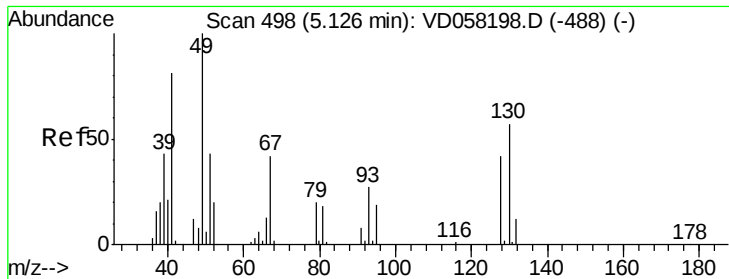
77 23.0 18.5 27.7



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC





#41

Methacrylonitrile

Concen: 52.32 ug/l

RT: 5.15 min Scan# 500

Delta R.T. 0.02 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 41 Resp: 175913

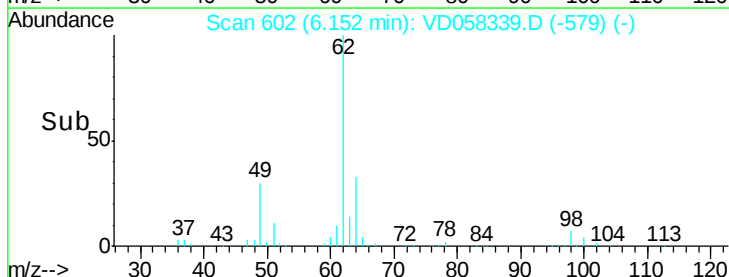
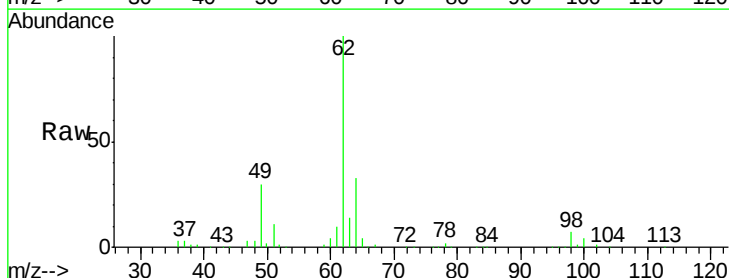
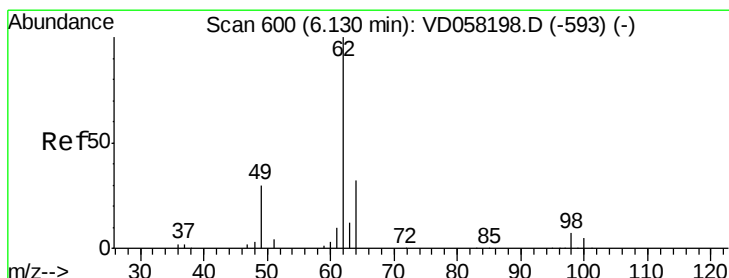
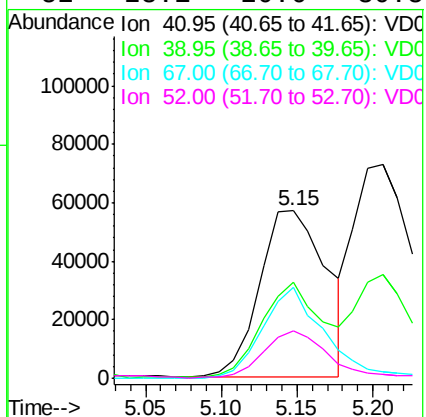
Ion Ratio Lower Upper

41 100

39 57.1 43.4 65.2

67 53.9 41.7 62.5

52 28.1 20.6 30.8



#42

1,2-Dichloroethane

Concen: 50.69 ug/l

RT: 6.15 min Scan# 602

Delta R.T. 0.02 min

Lab File: VD058339.D

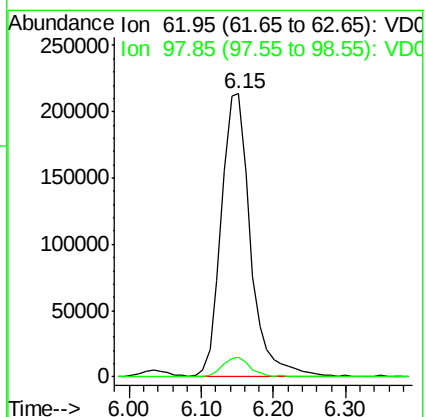
Acq: 23 Jun 2018 14:03

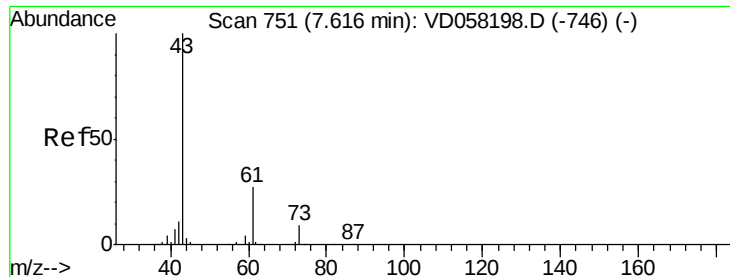
Tgt Ion: 62 Resp: 595106

Ion Ratio Lower Upper

62 100

98 7.2 0.0 13.2



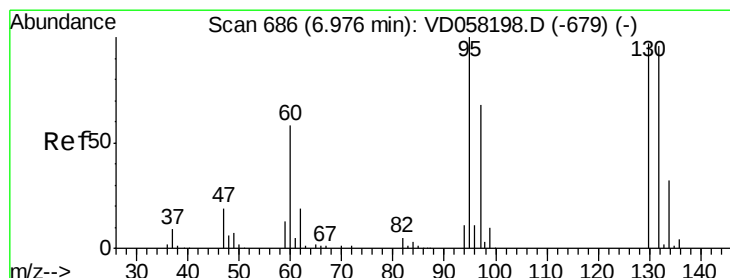
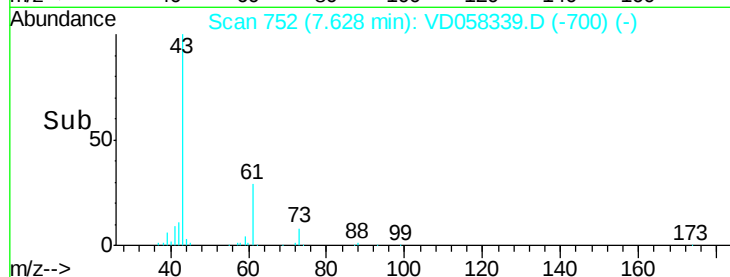
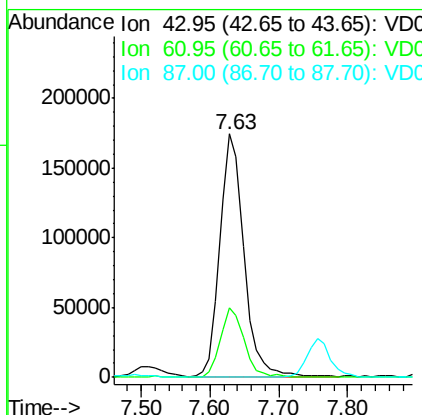
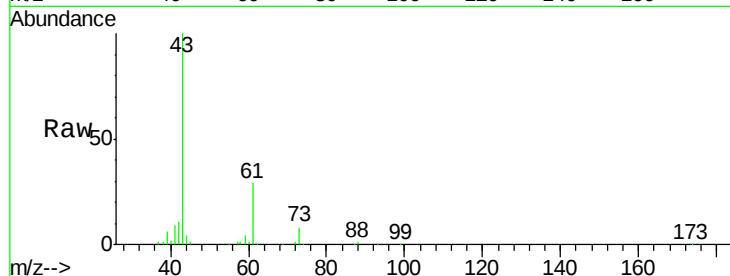


#43

Isopropyl Acetate
 Concen: 45.40 ug/l
 RT: 7.63 min Scan# 752
 Delta R.T. 0.01 min
 Lab File: VD058339.D
 Acq: 23 Jun 2018 14:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

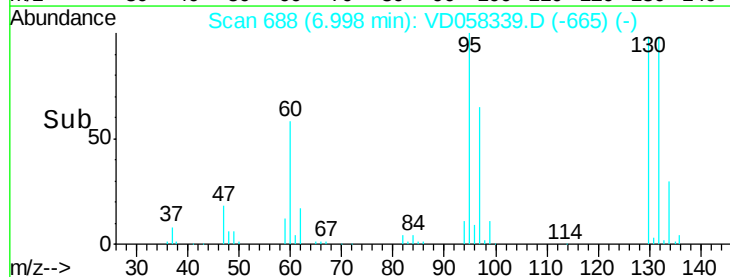
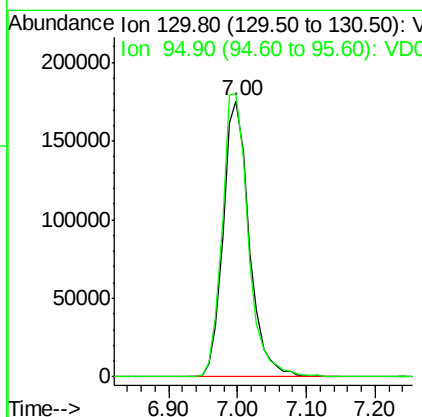
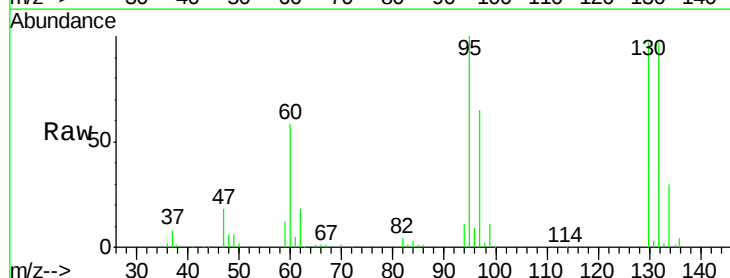
Tot Ion: 43 Resp: 421473
 Ion Ratio Lower Upper
 43 100
 61 28.6 21.8 32.6
 87 0.3 0.3 0.5#

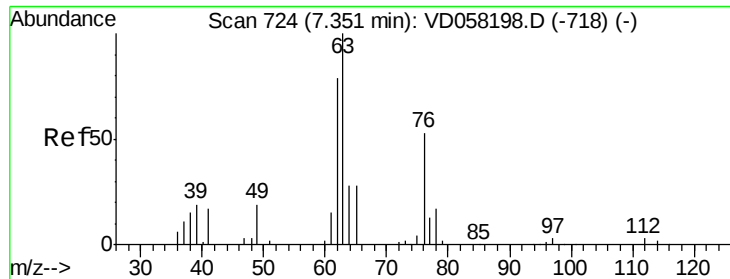


#44

Trichloroethene
 Concen: 52.68 ug/l
 RT: 7.00 min Scan# 688
 Delta R.T. 0.02 min
 Lab File: VD058339.D
 Acq: 23 Jun 2018 14:03

Tgt Ion: 130 Resp: 460536
 Ion Ratio Lower Upper
 130 100
 95 102.6 0.0 205.6





#45

1,2-Dichloropropane

Concen: 52.48 ug/l

RT: 7.36 min Scan# 725

Delta R.T. 0.01 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

Instrument :

MSVOA_D

ClientSampleId :

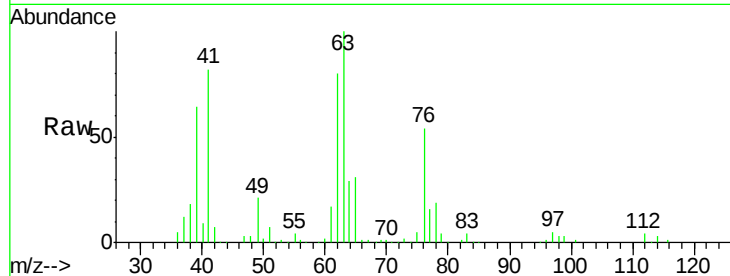
VSTDCCC050

Tot Ion: 63 Resp: 411441

Ion Ratio Lower Upper

63 100

65 31.3 24.0 36.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

7.36

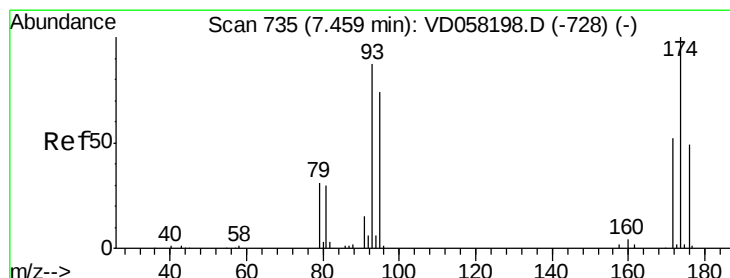
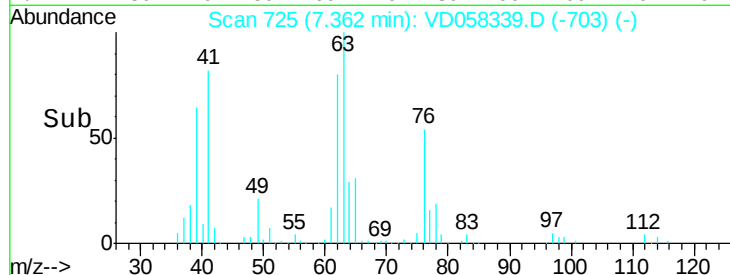
150000

100000

50000

0

Time-->



#46

Dibromomethane

Concen: 52.30 ug/l

RT: 7.48 min Scan# 737

Delta R.T. 0.02 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

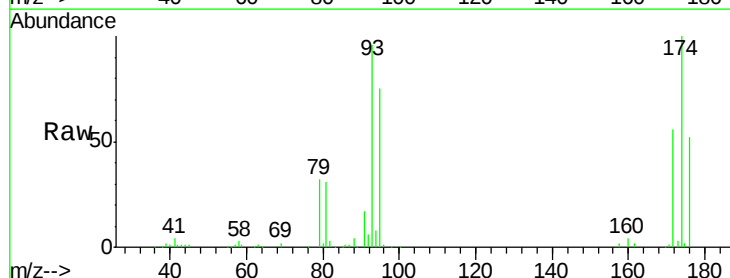
Tgt Ion: 93 Resp: 279936

Ion Ratio Lower Upper

93 100

95 78.3 67.8 101.6

174 104.4 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

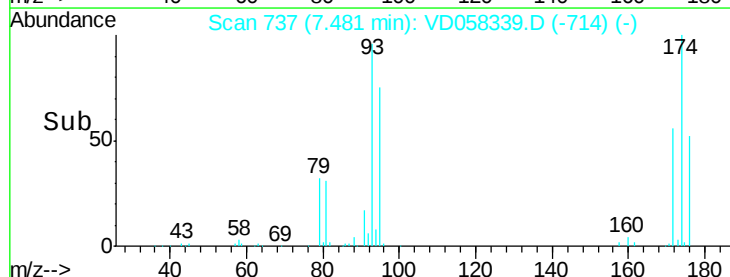
150000

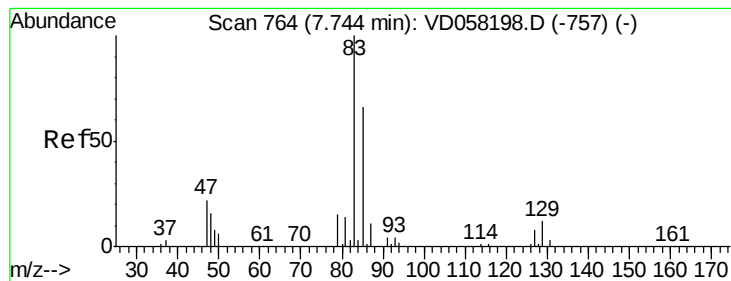
100000

50000

0

Time-->





#47

Bromodichloromethane

Concen: 52.97 ug/l

RT: 7.76 min Scan# 765

Delta R.T. 0.01 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

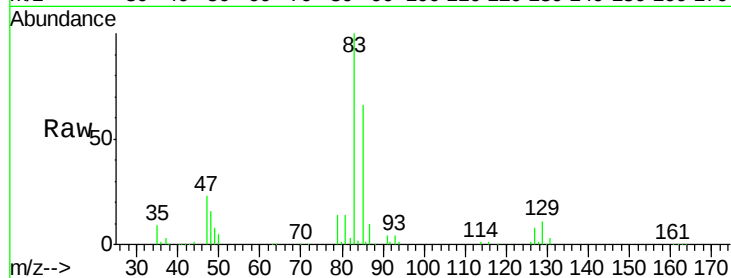
Tot Ion: 83 Resp: 646588

Ion Ratio Lower Upper

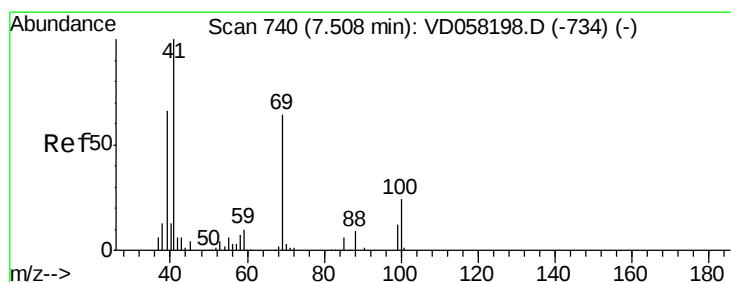
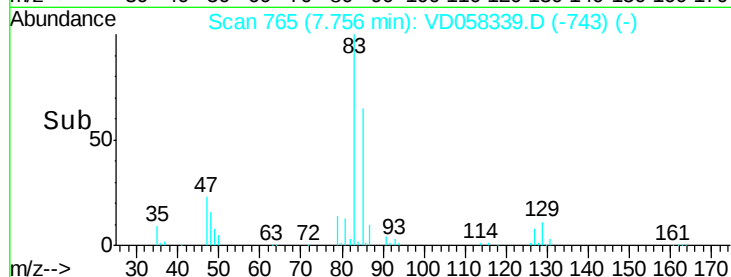
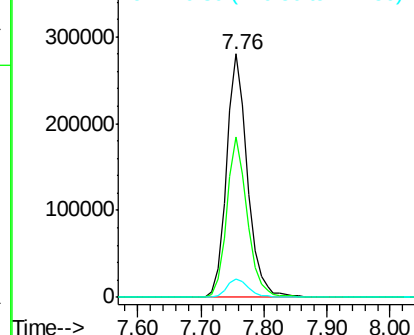
83 100

85 66.0 52.6 78.8

127 7.7 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: 46.35 ug/l

RT: 7.52 min Scan# 741

Delta R.T. 0.01 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

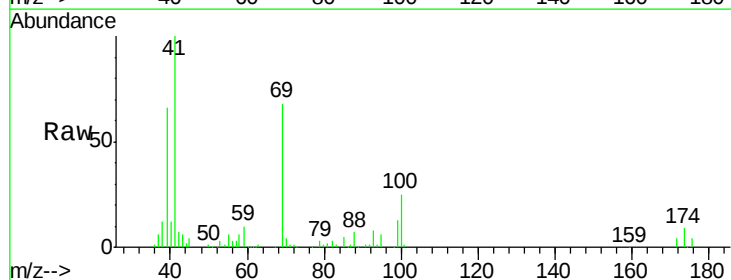
Tgt Ion: 41 Resp: 261511

Ion Ratio Lower Upper

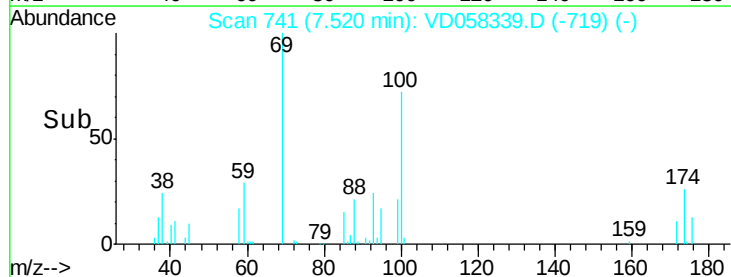
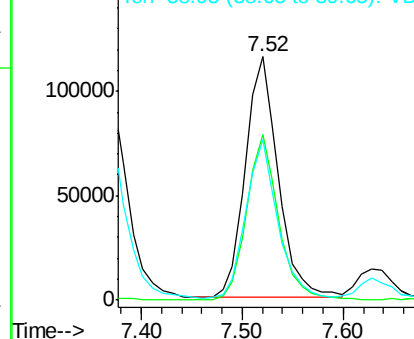
41 100

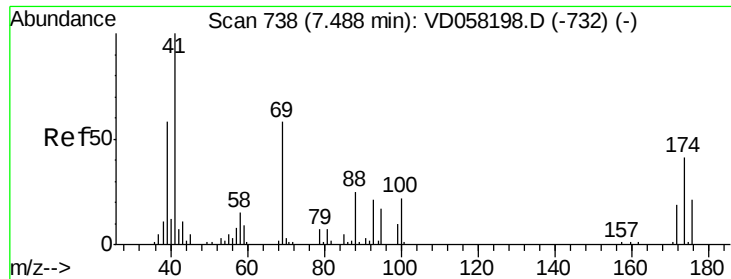
69 68.2 50.7 76.1

39 65.8 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: 996.22 ug/l

RT: 7.51 min Scan# 740

Delta R.T. 0.02 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

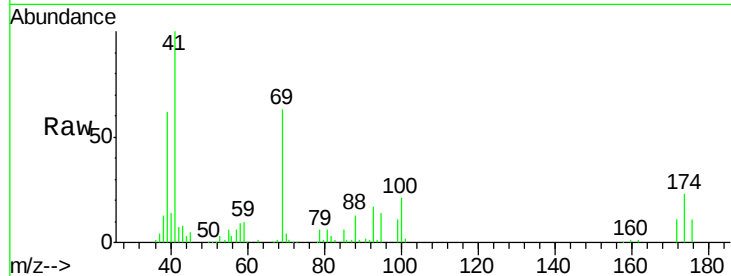
Tot Ion: 88 Resp: 50740

Ion Ratio Lower Upper

88 100

43 60.0 34.2 51.2#

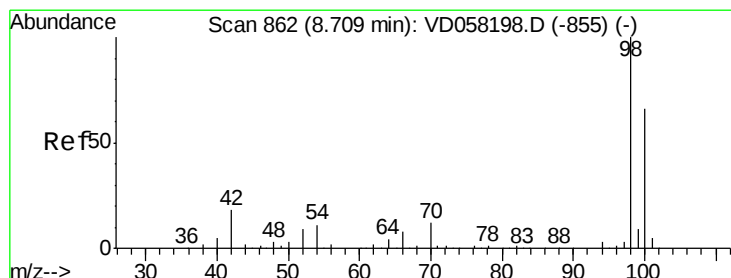
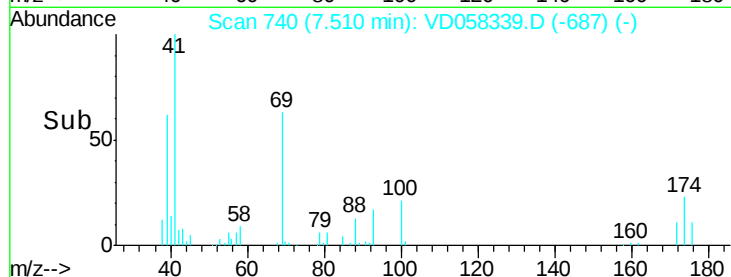
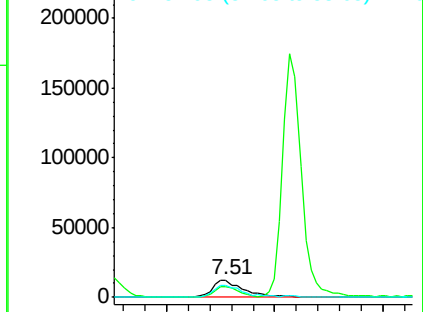
58 70.1 47.9 71.9



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: 996.22 ug/l

RT: 8.72 min Scan# 863

Delta R.T. 0.01 min

Lab File: VD058339.D

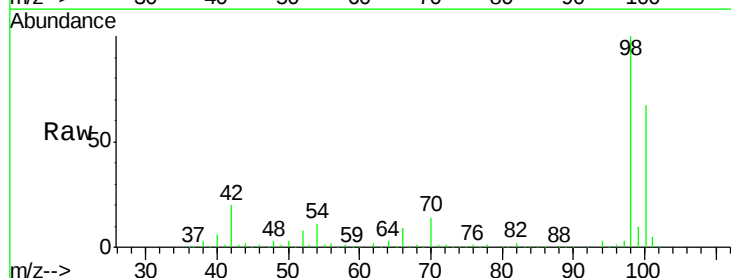
Acq: 23 Jun 2018 14:03

Tgt Ion: 98 Resp: 1267998

Ion Ratio Lower Upper

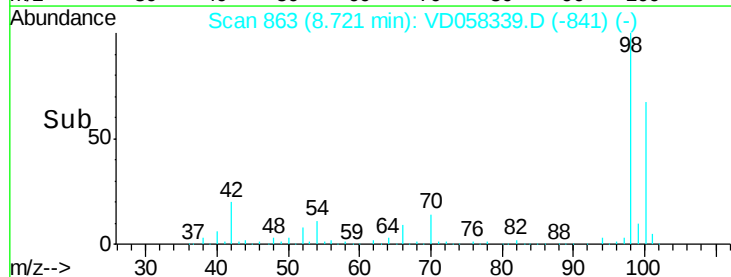
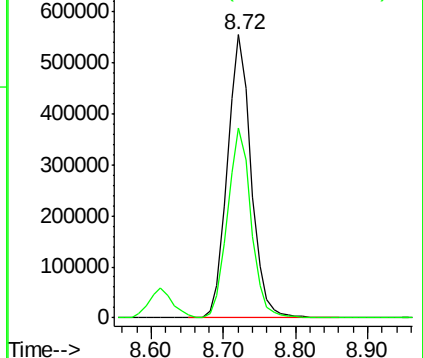
98 100

100 67.1 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: 238.39 ug/l

RT: 8.61 min Scan# 852

Delta R.T. 0.01 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

Instrument :

MSVOA_D

ClientSampleId :

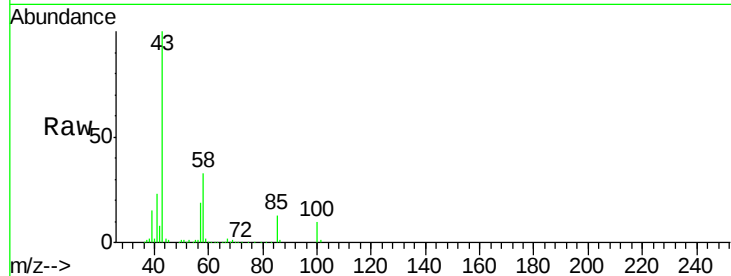
VSTDCCC050

Tot Ion: 43 Resp: 1443566

Ion Ratio Lower Upper

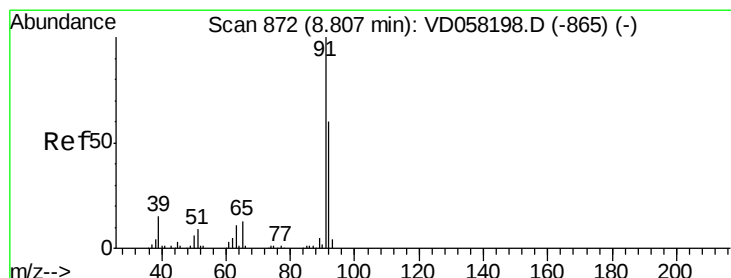
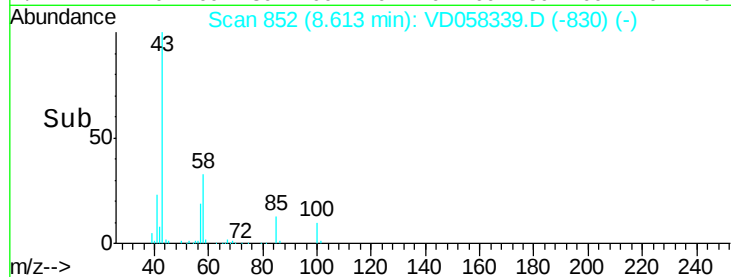
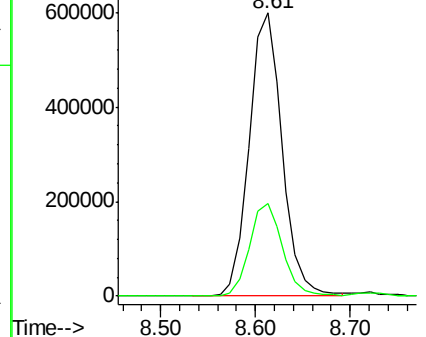
43 100

58 32.5 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: 50.42 ug/l

RT: 8.82 min Scan# 873

Delta R.T. 0.01 min

Lab File: VD058339.D

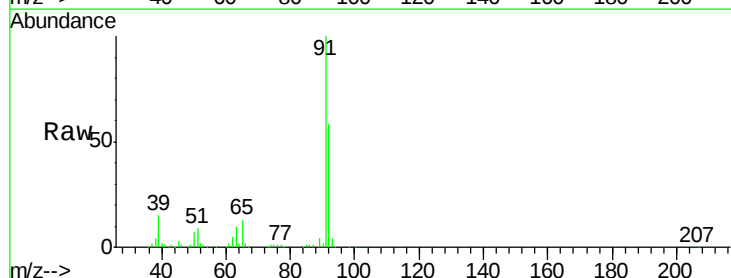
Acq: 23 Jun 2018 14:03

Tgt Ion: 92 Resp: 835774

Ion Ratio Lower Upper

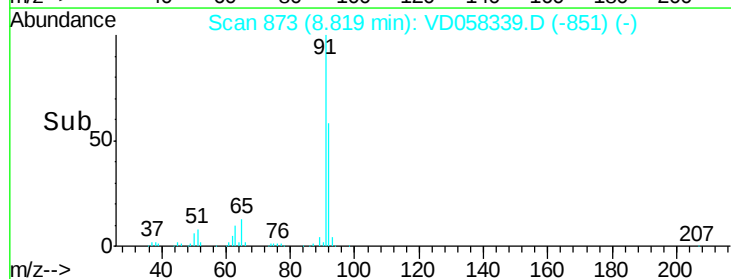
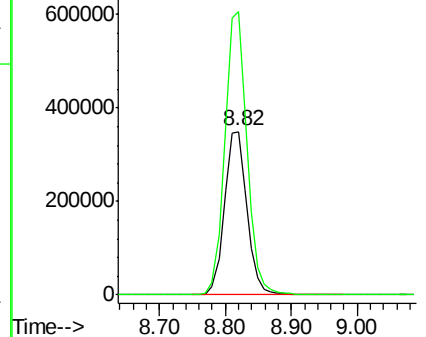
92 100

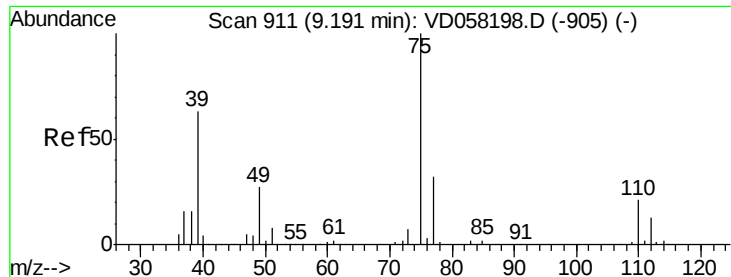
91 173.0 133.2 199.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

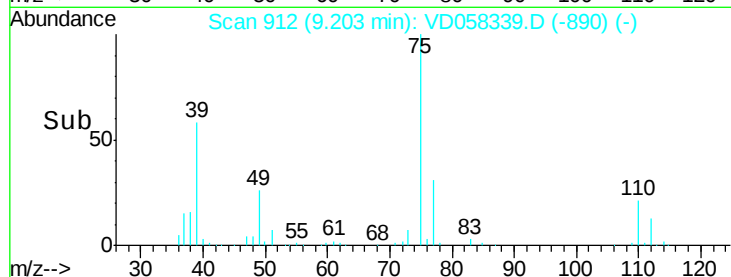
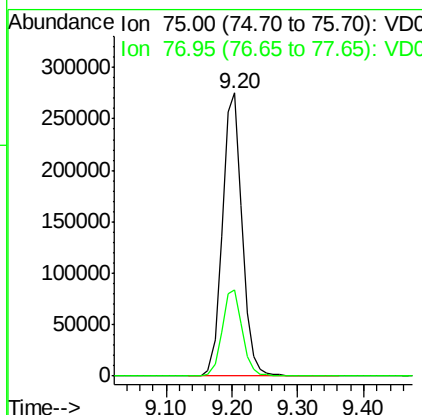
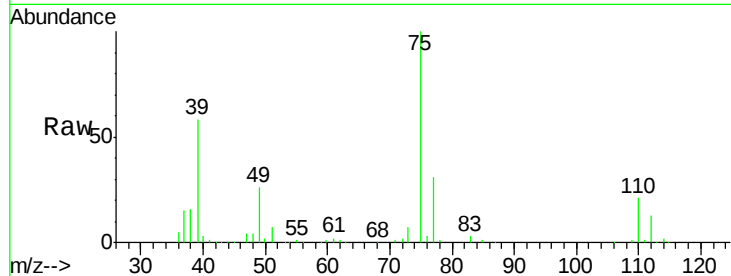




#53
 t-1,3-Dichloropropene
 Concen: 54.29 ug/l
 RT: 9.20 min Scan# 912
 Delta R.T. 0.01 min
 Lab File: VD058339.D
 Acq: 23 Jun 2018 14:03

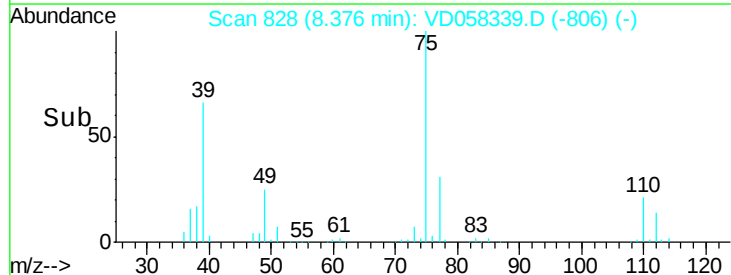
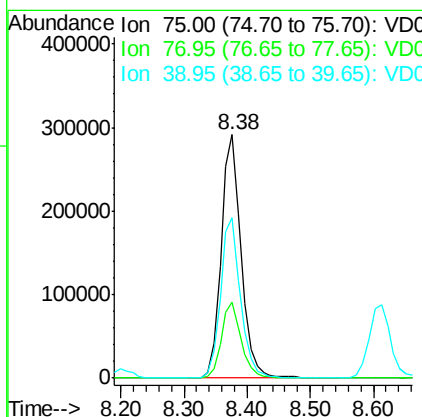
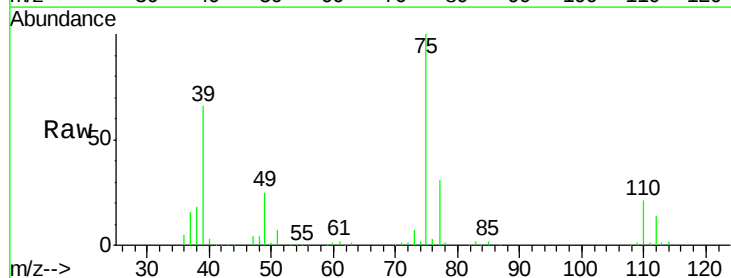
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

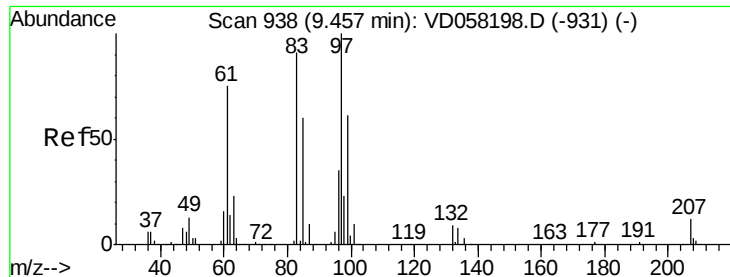
Tot Ion: 75 Resp: 576066
 Ion Ratio Lower Upper
 75 100
 77 30.7 25.8 38.8



#54
 cis-1,3-Dichloropropene
 Concen: 51.44 ug/l
 RT: 8.38 min Scan# 828
 Delta R.T. 0.01 min
 Lab File: VD058339.D
 Acq: 23 Jun 2018 14:03

Tgt Ion: 75 Resp: 639927
 Ion Ratio Lower Upper
 75 100
 77 31.0 26.5 39.7
 39 65.8 52.9 79.3





#55

1,1,2-Trichloroethane

Concen: 50.18 ug/l

RT: 9.47 min Scan# 939

Delta R.T. 0.01 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 97 Resp: 294321

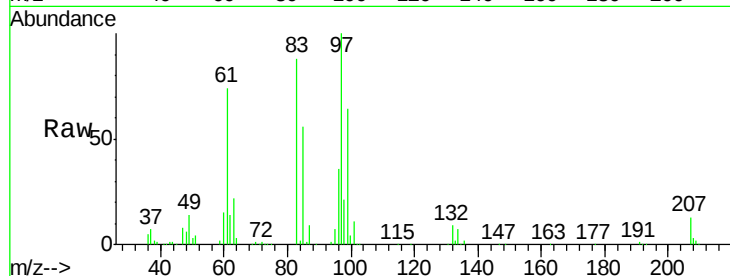
Ion Ratio Lower Upper

97 100

83 88.4 72.9 109.3

85 56.3 48.2 72.4

99 63.7 48.9 73.3

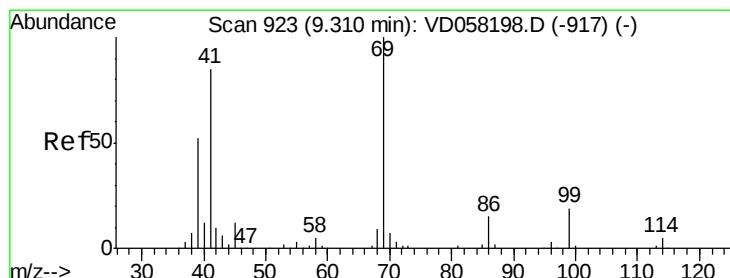
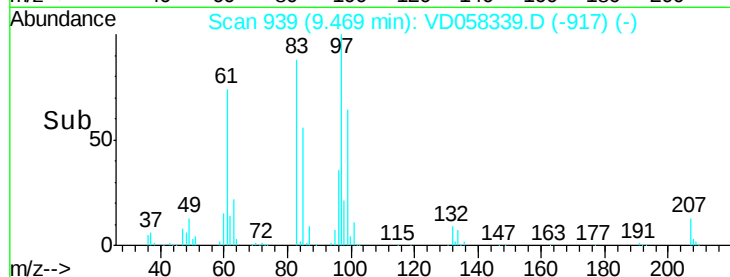
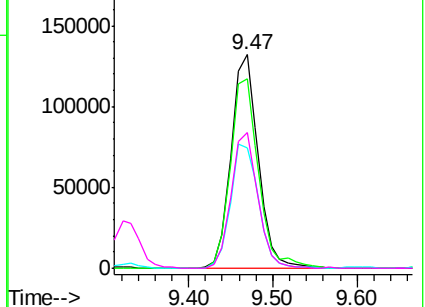


Abundance Ion 96.85 (96.55 to 97.55): VDC

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: 50.13 ug/l

RT: 9.32 min Scan# 924

Delta R.T. 0.01 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

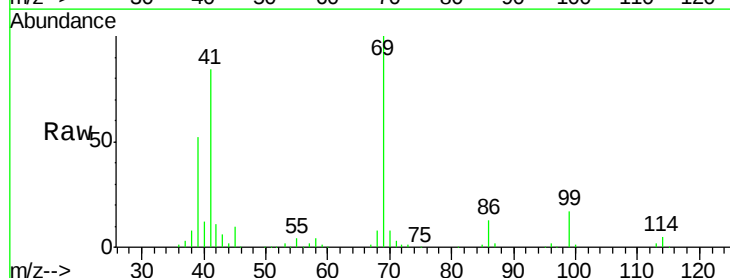
Tgt Ion: 69 Resp: 351596

Ion Ratio Lower Upper

69 100

41 83.9 67.6 101.4

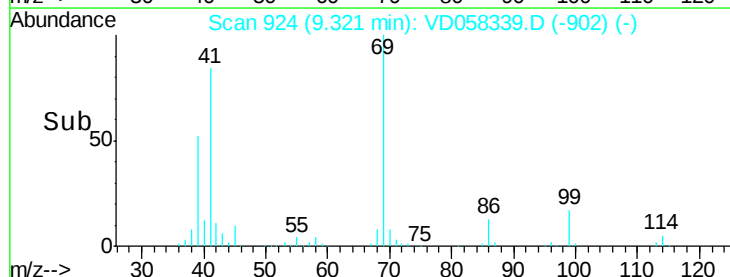
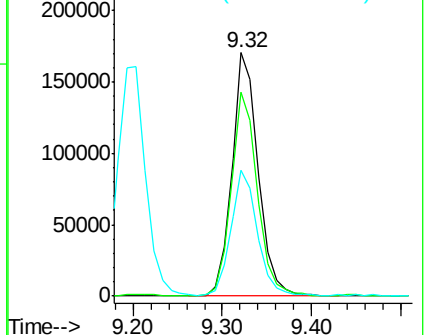
39 51.6 42.2 63.2

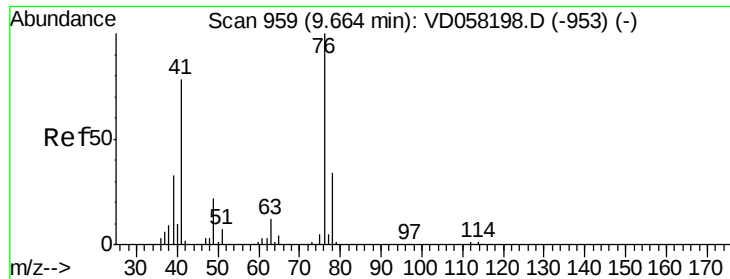


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

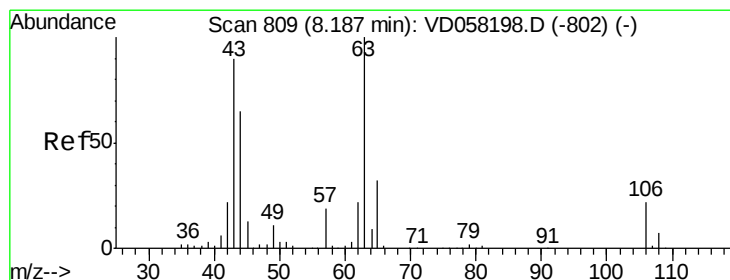
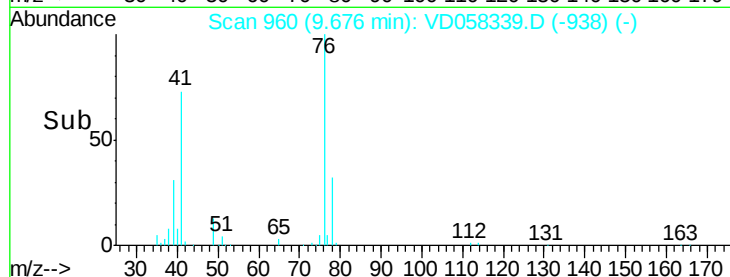
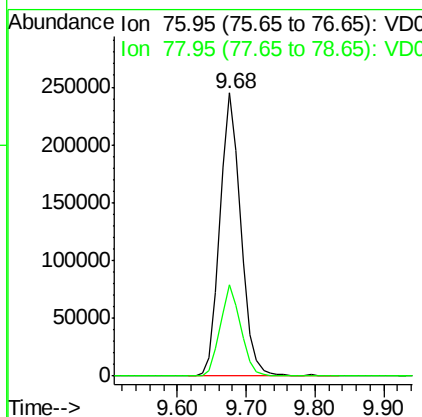
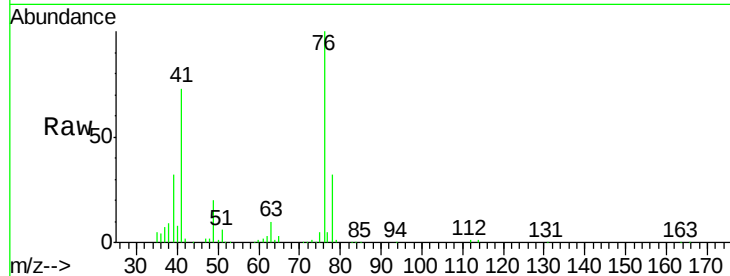




#57
 1,3-Dichloropropane
 Concen: 52.26 ug/l
 RT: 9.68 min Scan# 960
 Delta R.T. 0.01 min
 Lab File: VD058339.D
 Acq: 23 Jun 2018 14:03

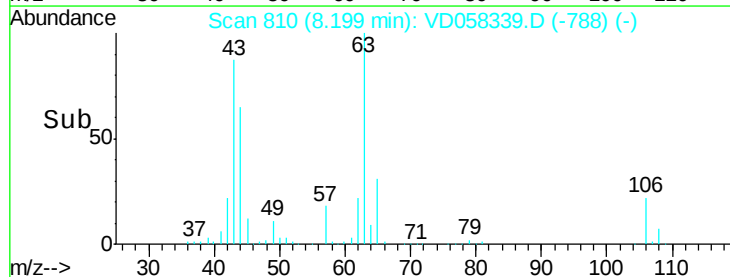
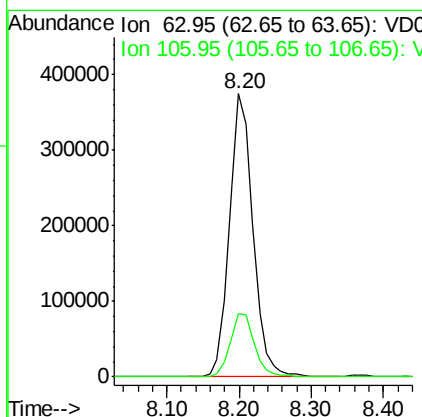
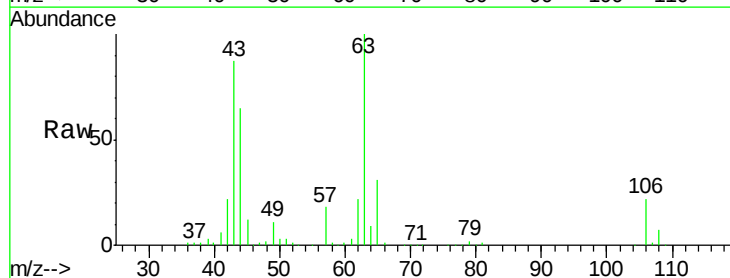
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

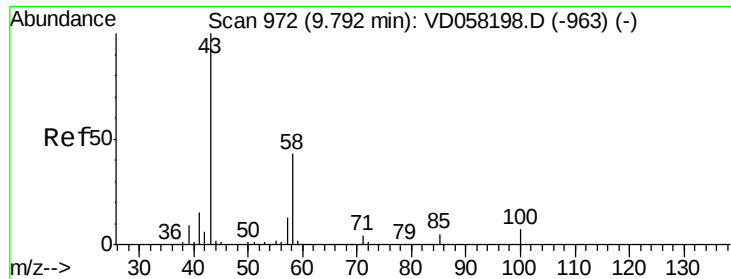
Tot Ion: 76 Resp: 516341
 Ion Ratio Lower Upper
 76 100
 78 32.3 27.0 40.6



#58
 2-Chloroethyl Vinyl ether
 Concen: 246.20 ug/l
 RT: 8.20 min Scan# 810
 Delta R.T. 0.01 min
 Lab File: VD058339.D
 Acq: 23 Jun 2018 14:03

Tgt Ion: 63 Resp: 854933
 Ion Ratio Lower Upper
 63 100
 106 22.5 18.0 27.0

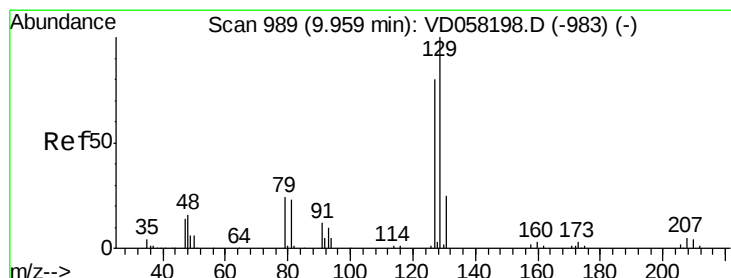
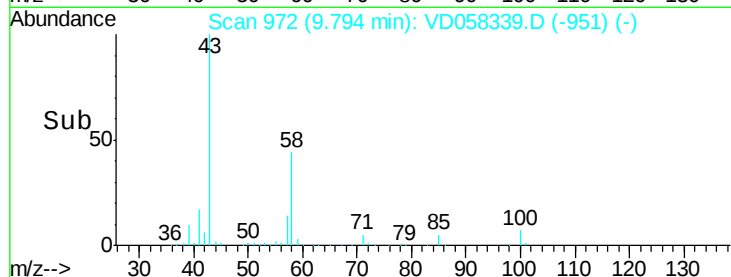
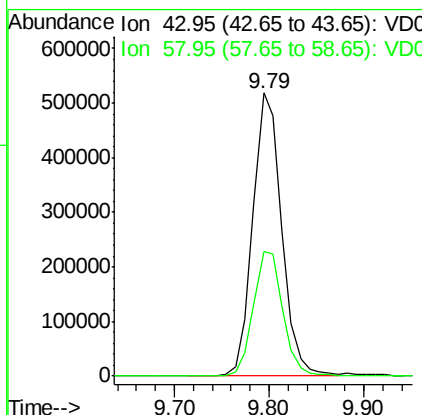
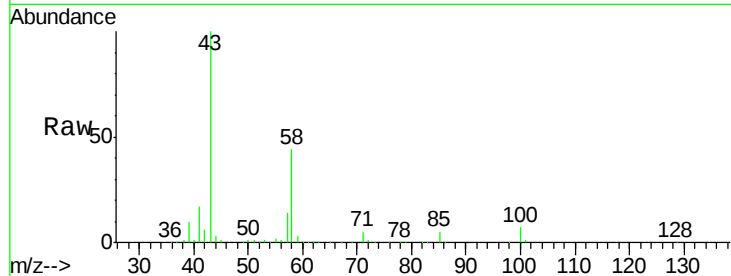




#59
2-Hexanone
Concen: 251.42 ug/l
RT: 9.79 min Scan# 972
Delta R.T. 0.00 min
Lab File: VD058339.D
Acq: 23 Jun 2018 14:03

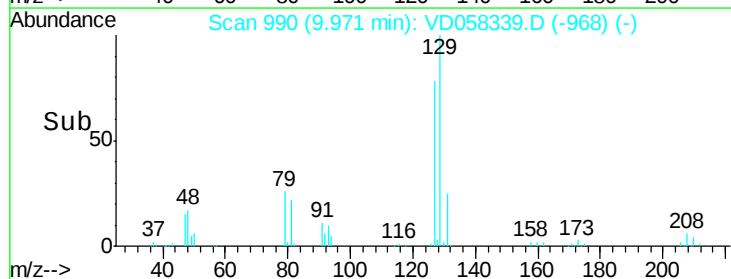
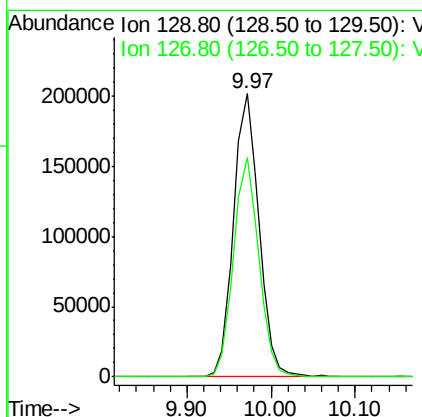
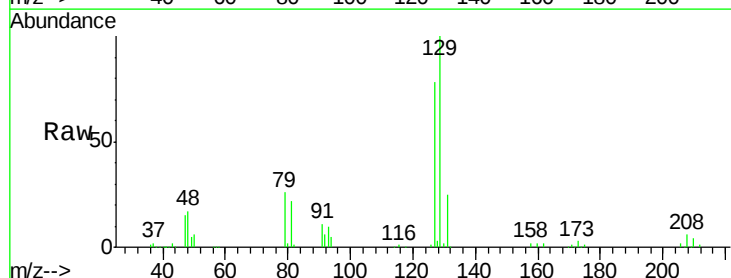
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

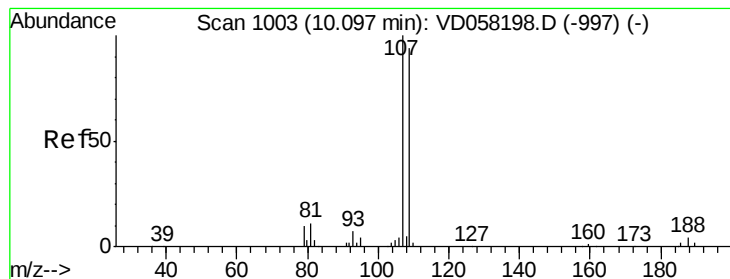
Tot Ion: 43 Resp: 1100125
Ion Ratio Lower Upper
43 100
58 44.0 21.7 65.1



#60
Dibromochloromethane
Concen: 53.62 ug/l
RT: 9.97 min Scan# 990
Delta R.T. 0.01 min
Lab File: VD058339.D
Acq: 23 Jun 2018 14:03

Tgt Ion: 129 Resp: 426771
Ion Ratio Lower Upper
129 100
127 77.6 39.8 119.4





#61

1,2-Dibromoethane

Concen: 51.15 ug/l

RT: 10.11 min Scan# 1004

Delta R.T. 0.01 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

Instrument :

MSVOA_D

ClientSampleId :

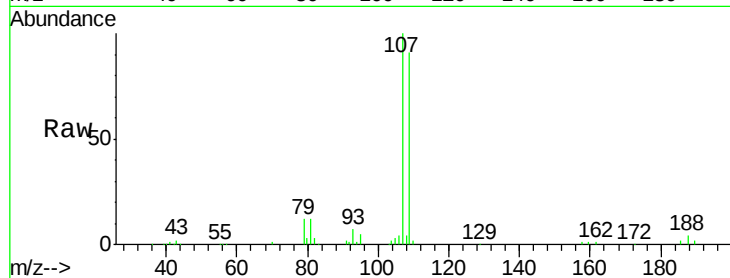
VSTDCCC050

Tot Ion: 107 Resp: 328321

Ion Ratio Lower Upper

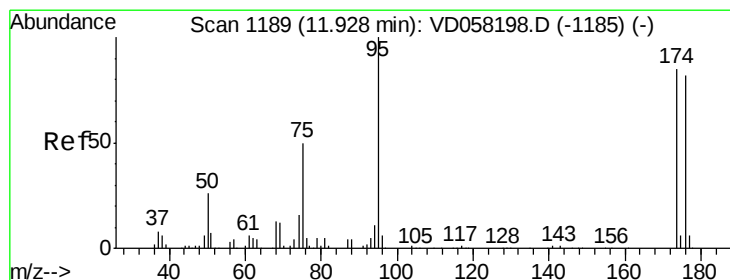
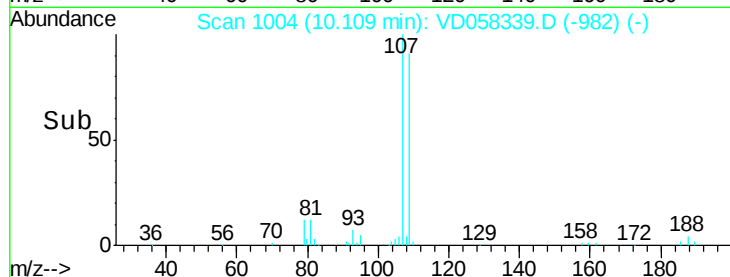
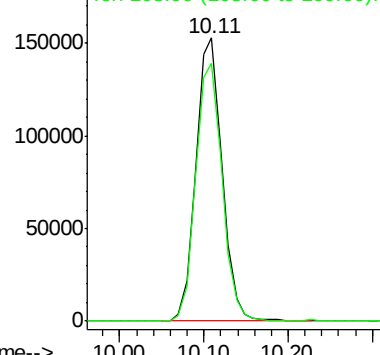
107 100

109 91.3 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: 51.15 ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.01 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

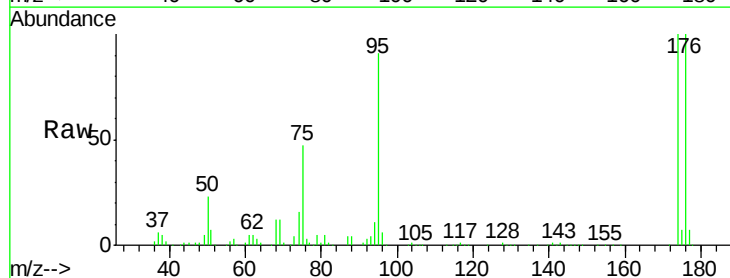
Tgt Ion: 95 Resp: 519011

Ion Ratio Lower Upper

95 100

174 110.3 0.0 170.2

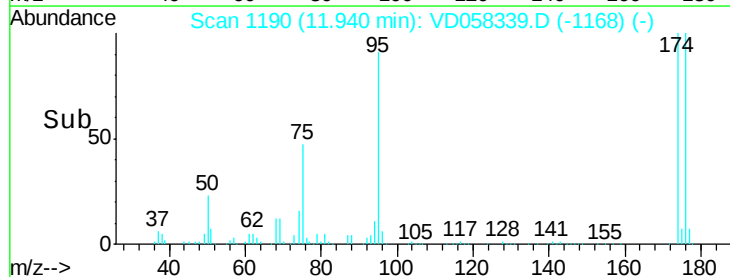
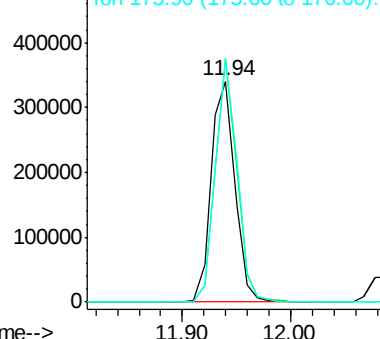
176 110.2 0.0 164.6

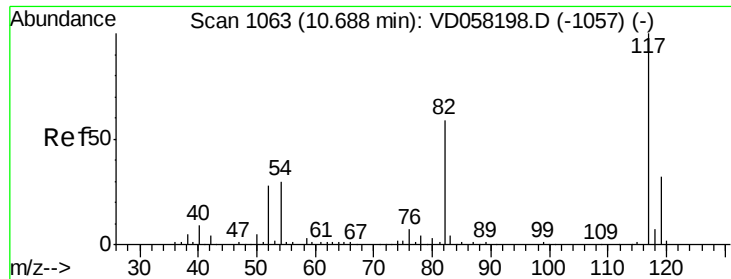


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

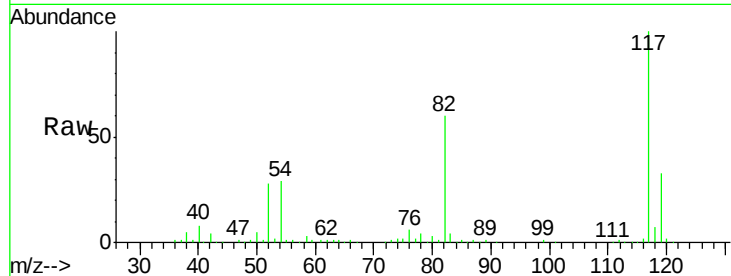




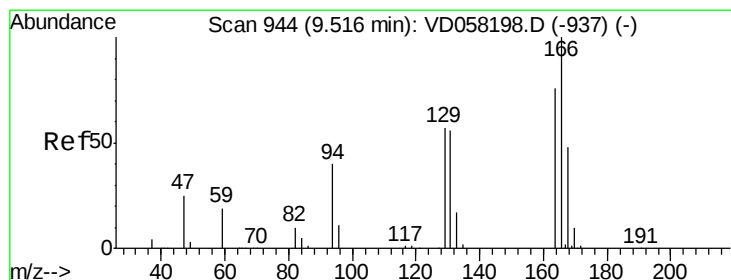
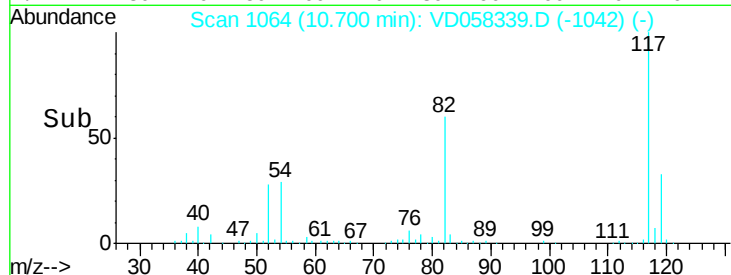
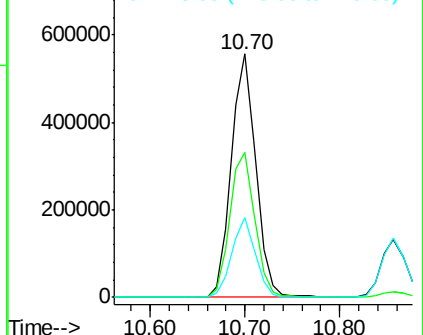
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.70 min Scan# 1064
Delta R.T. 0.01 min
Lab File: VD058339.D
Acq: 23 Jun 2018 14:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:117 Resp: 1002693
Ion Ratio Lower Upper
117 100
82 59.7 47.0 70.6
119 32.6 25.3 37.9

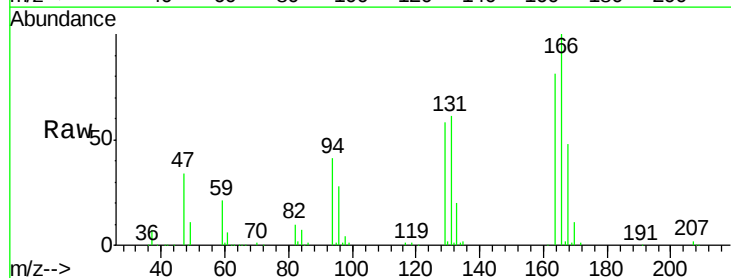


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

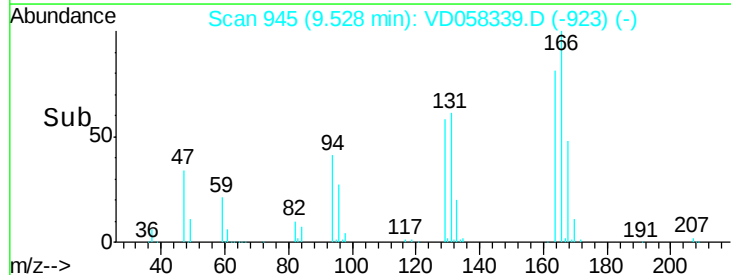
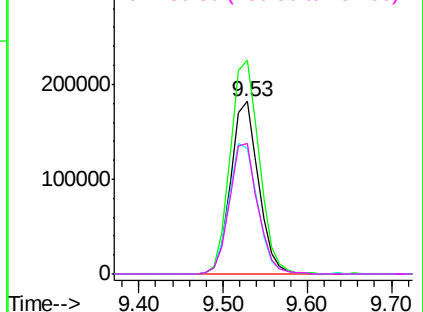


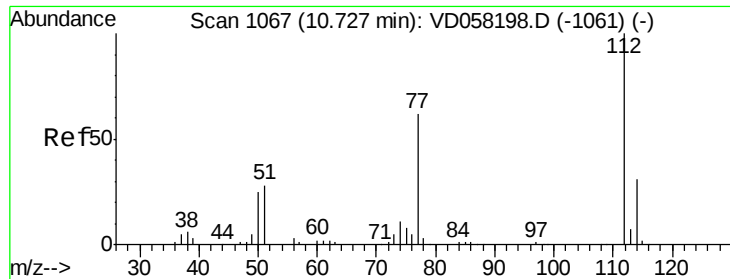
#64
Tetrachloroethene
Concen: 49.51 ug/l
RT: 9.53 min Scan# 945
Delta R.T. 0.01 min
Lab File: VD058339.D
Acq: 23 Jun 2018 14:03

Tgt Ion:164 Resp: 417689
Ion Ratio Lower Upper
164 100
166 124.0 105.4 158.0
129 72.5 59.6 89.4
131 75.6 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

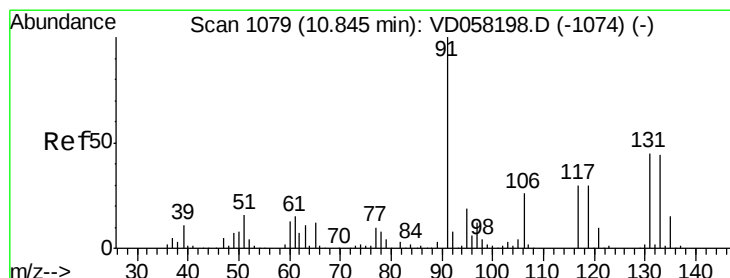
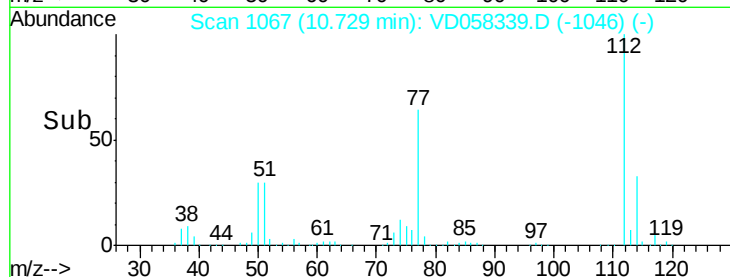
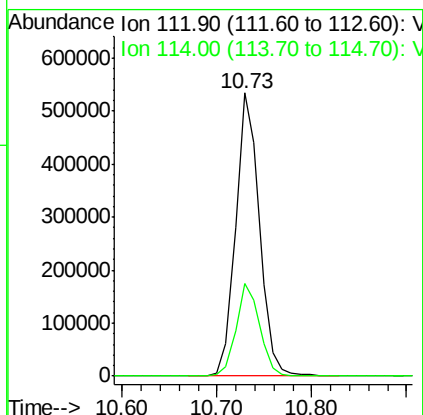
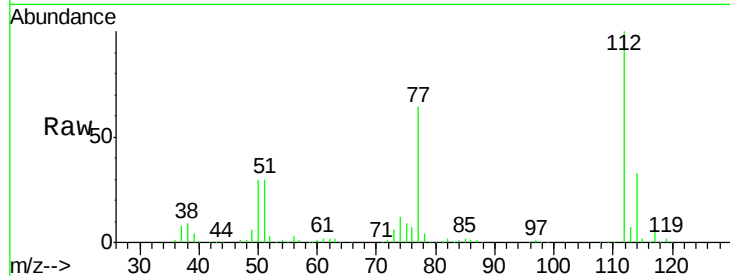




#65
Chlorobenzene
Concen: 49.38 ug/l
RT: 10.73 min Scan# 1067
Delta R.T. 0.00 min
Lab File: VD058339.D
Acq: 23 Jun 2018 14:03

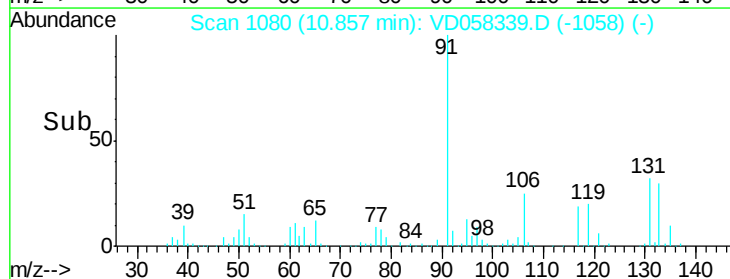
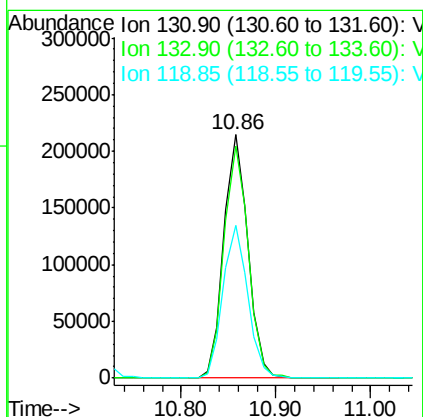
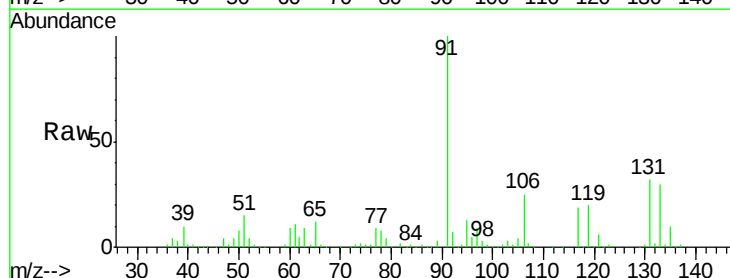
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 926228
Ion Ratio Lower Upper
112 100
114 32.6 25.0 37.4



#66
1,1,1,2-Tetrachloroethane
Concen: 52.58 ug/l
RT: 10.86 min Scan# 1080
Delta R.T. 0.01 min
Lab File: VD058339.D
Acq: 23 Jun 2018 14:03

Tgt Ion:131 Resp: 380611
Ion Ratio Lower Upper
131 100
133 95.3 48.6 145.9
119 62.9 33.0 99.0

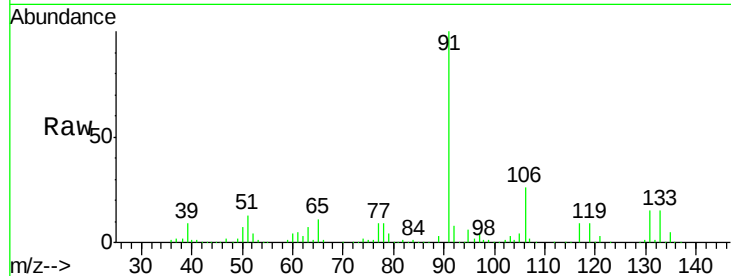




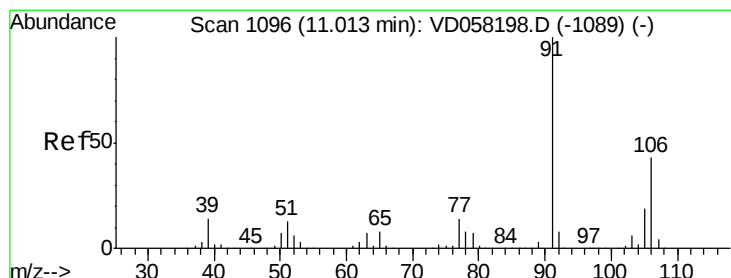
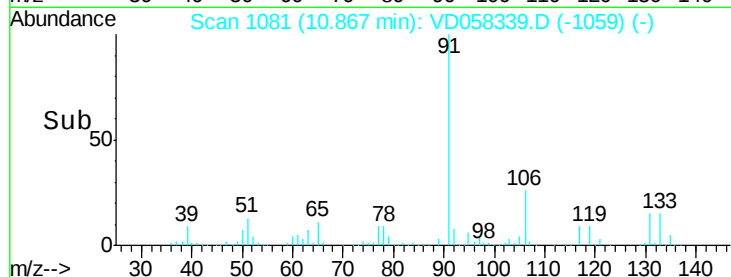
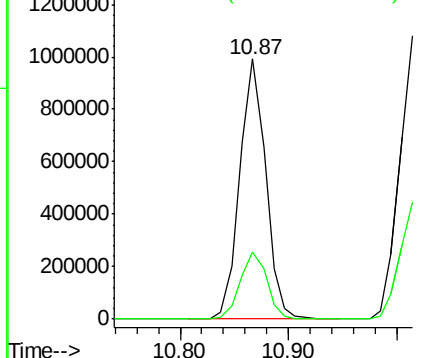
#67
Ethyl Benzene
Concen: 50.17 ug/l
RT: 10.87 min Scan# 1081
Delta R.T. 0.01 min
Lab File: VD058339.D
Acq: 23 Jun 2018 14:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1661368
Ion Ratio Lower Upper
91 100
106 26.0 22.0 33.0

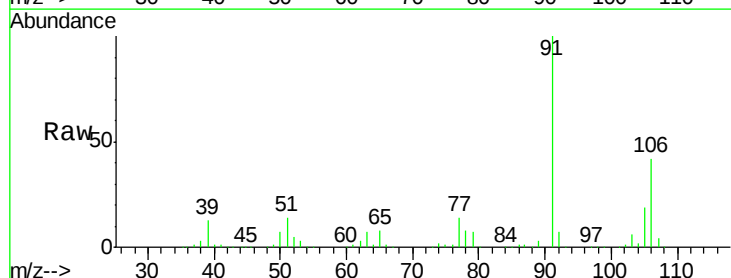


Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 106.05 (105.75 to 106.75): V

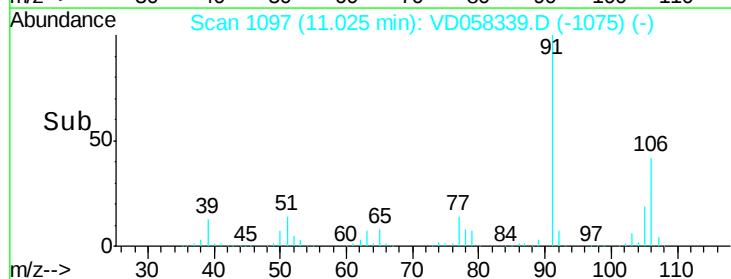
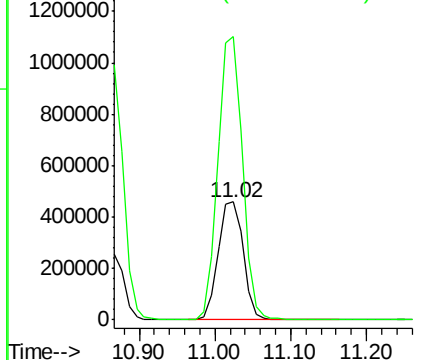


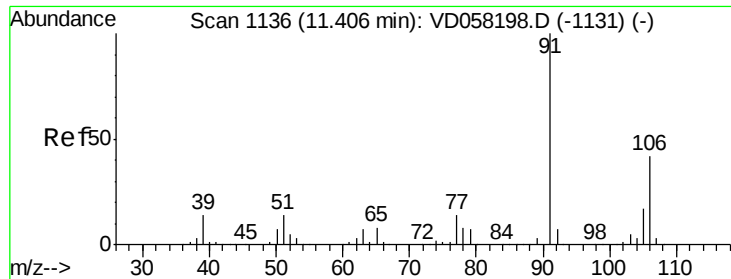
#68
m/p-Xylenes
Concen: 96.19 ug/l
RT: 11.02 min Scan# 1097
Delta R.T. 0.01 min
Lab File: VD058339.D
Acq: 23 Jun 2018 14:03

Tgt Ion: 106 Resp: 1062127
Ion Ratio Lower Upper
106 100
91 240.3 185.0 277.6



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

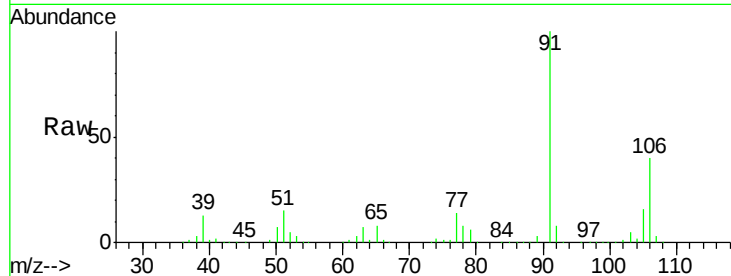




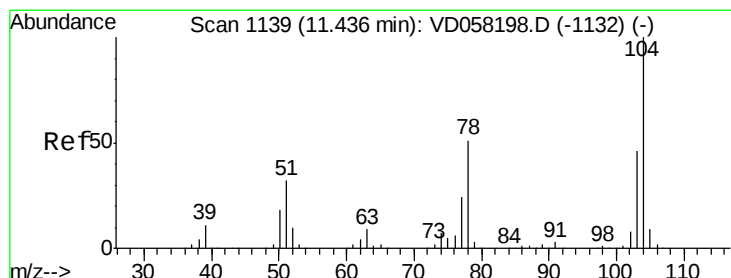
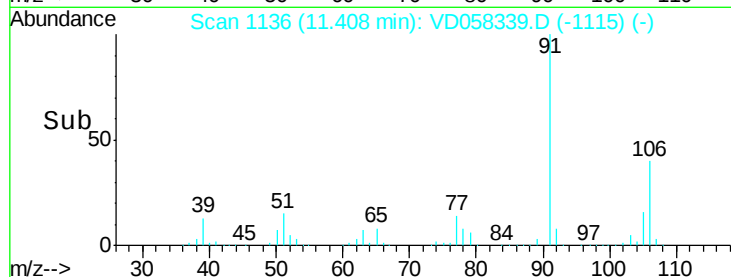
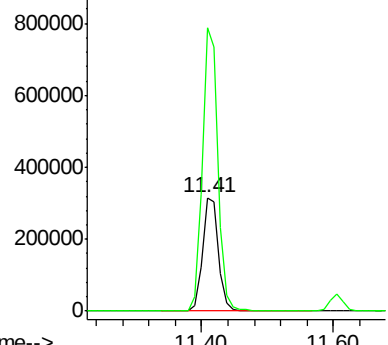
#69
o-Xylene
Concen: 50.71 ug/l
RT: 11.41 min Scan# 1136
Delta R.T. 0.00 min
Lab File: VD058339.D
Acq: 23 Jun 2018 14:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 534855
Ion Ratio Lower Upper
106 100
91 249.1 120.2 360.6

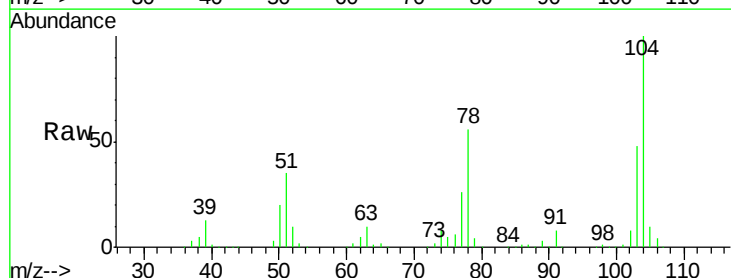


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

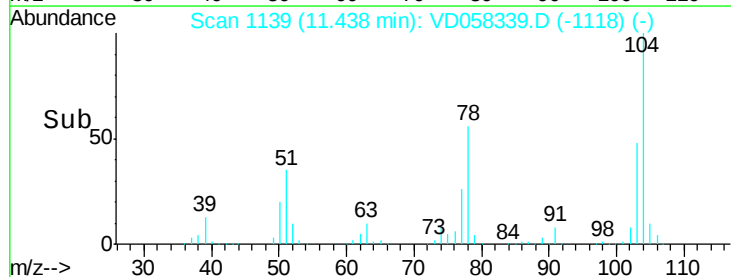
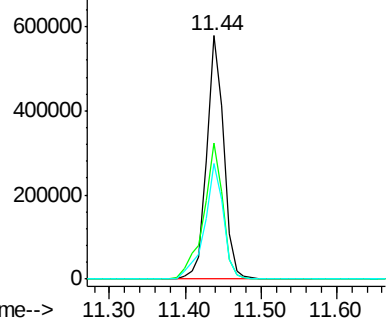


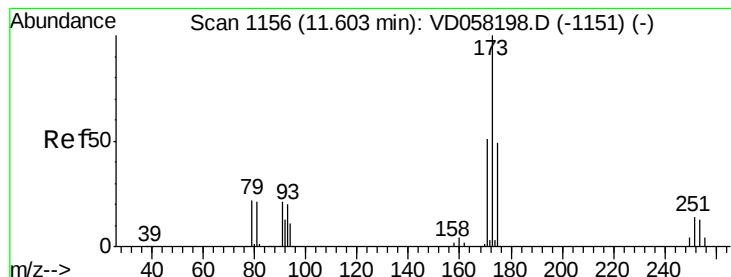
#70
Styrene
Concen: 48.98 ug/l
RT: 11.44 min Scan# 1139
Delta R.T. 0.00 min
Lab File: VD058339.D
Acq: 23 Jun 2018 14:03

Tgt Ion:104 Resp: 881539
Ion Ratio Lower Upper
104 100
78 56.1 40.8 61.2
103 47.5 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: 51.26 ug/l

RT: 11.61 min Scan# 1156

Delta R.T. 0.00 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

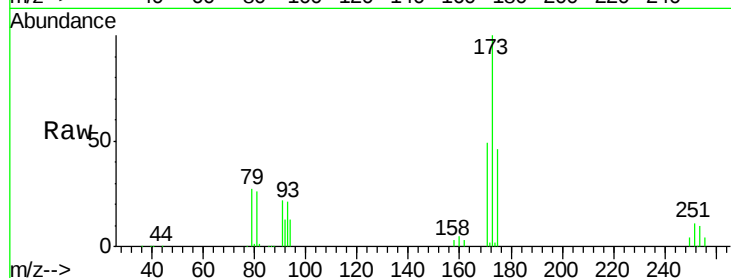
Tot Ion:173 Resp: 295982

Ion Ratio Lower Upper

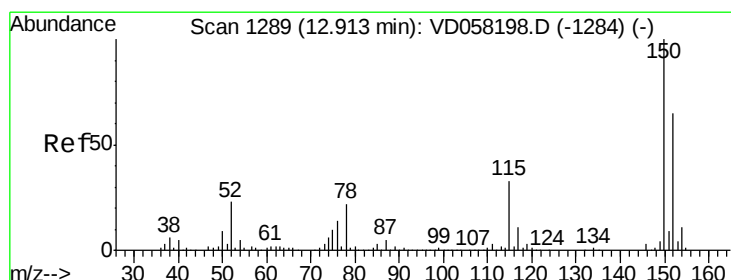
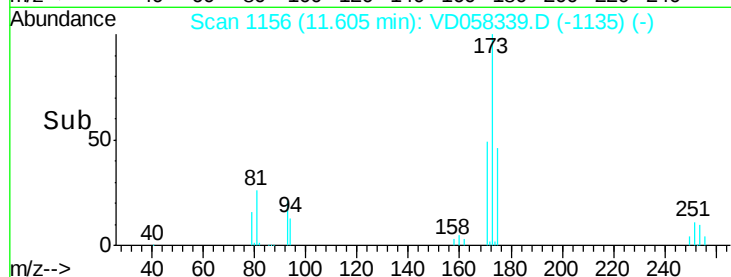
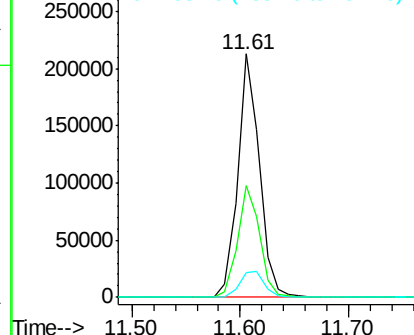
173 100

175 45.8 24.6 74.0

254 10.0 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: 50.00 ug/l

RT: 12.91 min Scan# 1289

Delta R.T. 0.00 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

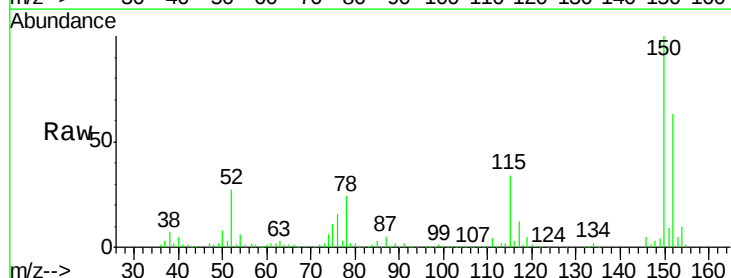
Tgt Ion:152 Resp: 497996

Ion Ratio Lower Upper

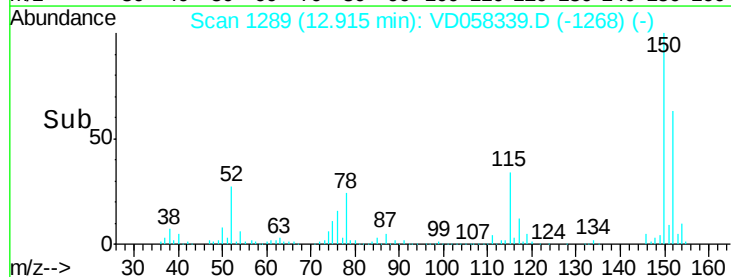
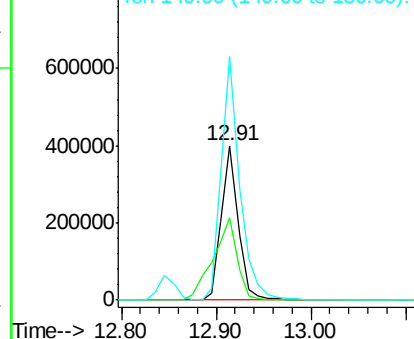
152 100

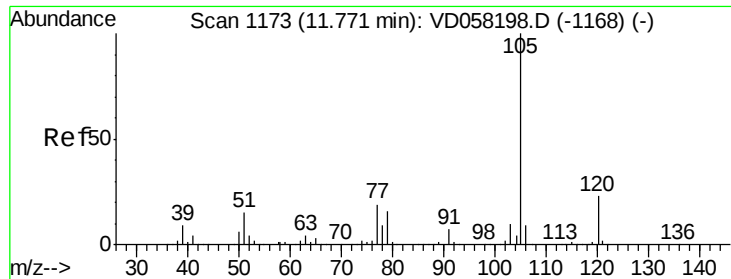
115 53.2 25.1 75.3

150 157.9 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: 49.24 ug/l

RT: 11.78 min Scan# 1174

Delta R.T. 0.01 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

Instrument :

MSVOA_D

ClientSampleId :

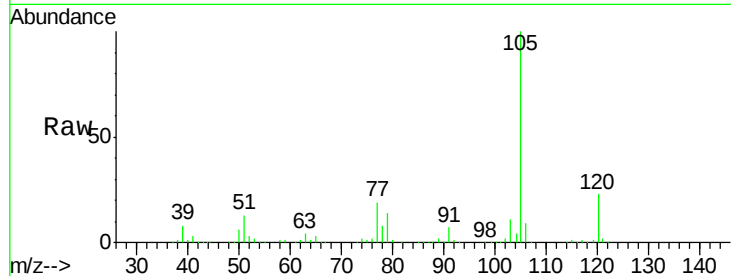
VSTDCCC050

Tot Ion:105 Resp: 1466602

Ion Ratio Lower Upper

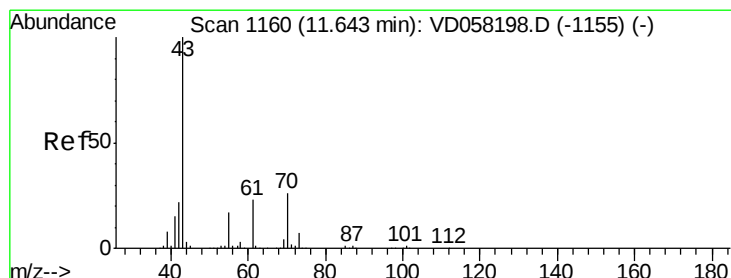
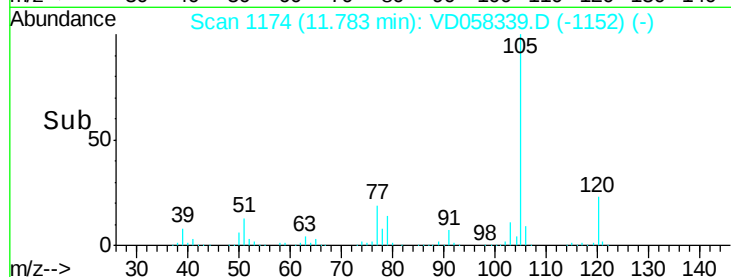
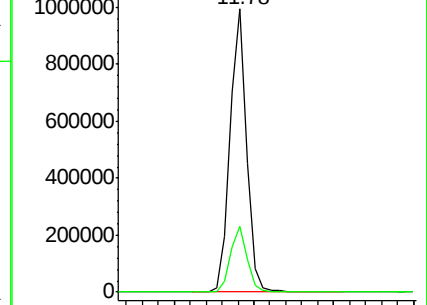
105 100

120 23.2 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: 50.32 ug/l

RT: 11.65 min Scan# 1161

Delta R.T. 0.01 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

Tgt Ion: 43 Resp: 579528

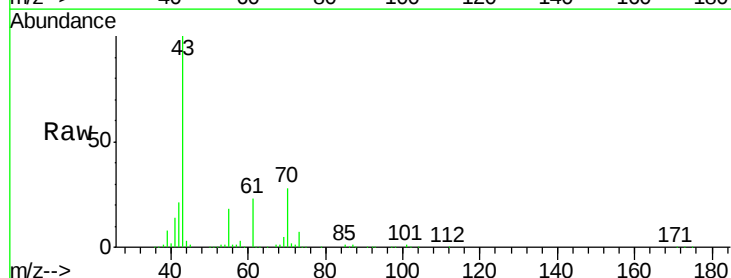
Ion Ratio Lower Upper

43 100

70 28.1 20.9 31.3

55 17.6 13.5 20.3

61 23.1 18.2 27.2

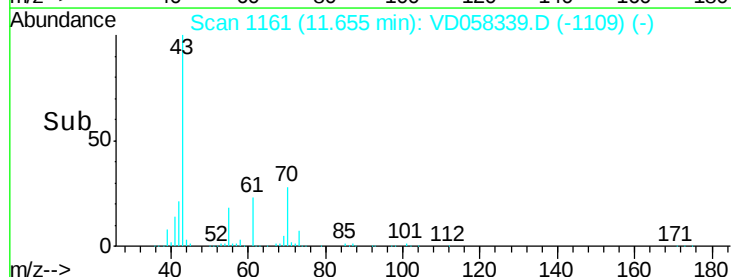
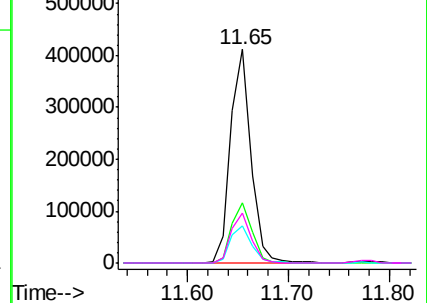


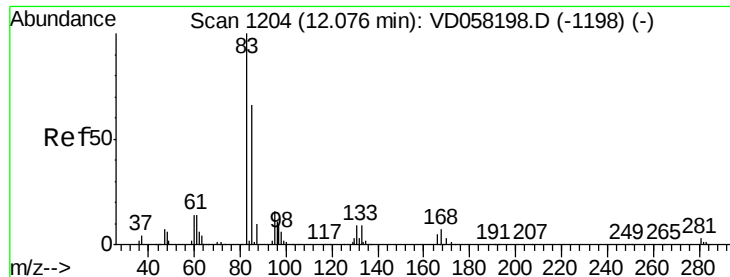
Abundance Ion 42.95 (42.65 to 43.65): VDC

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: 53.12 ug/l

RT: 12.08 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

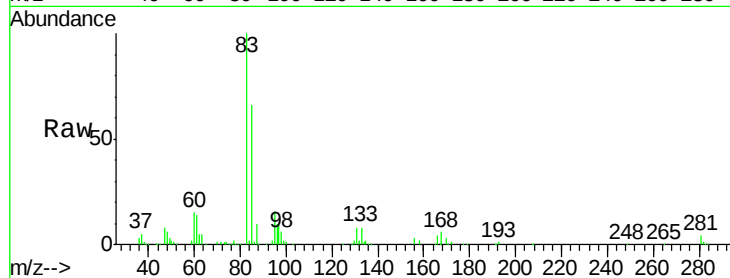
Tot Ion: 83 Resp: 368216

Ion	Ratio	Lower	Upper
83	100		
131	7.6	4.8	14.3
85	65.7	33.1	99.5

83 100

131 7.6 4.8 14.3

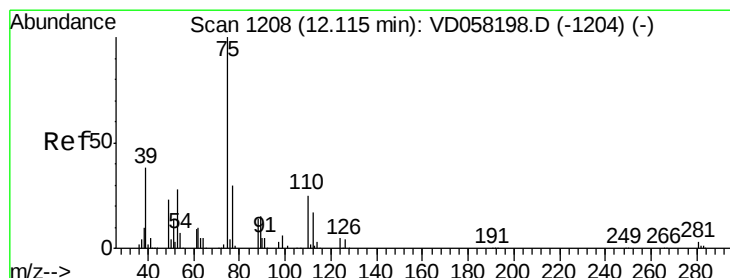
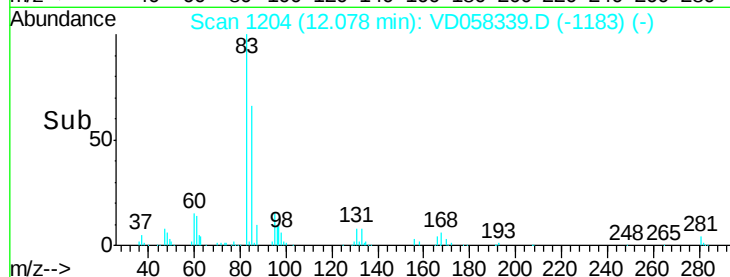
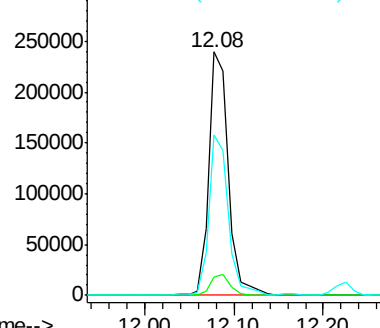
85 65.7 33.1 99.5



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: 52.09 ug/l

RT: 12.12 min Scan# 1208

Delta R.T. 0.00 min

Lab File: VD058339.D

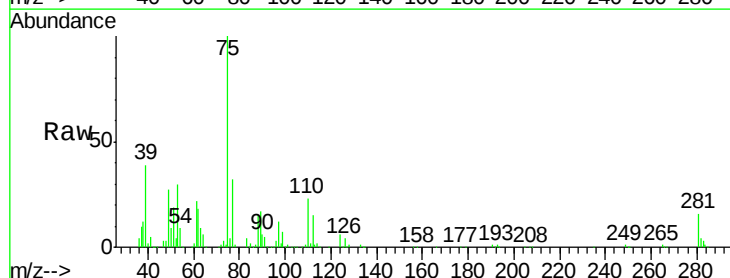
Acq: 23 Jun 2018 14:03

Tgt Ion: 75 Resp: 378733

Ion	Ratio	Lower	Upper
75	100		
77	31.8	16.0	47.9

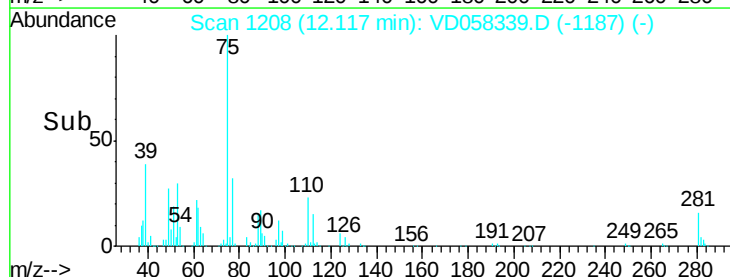
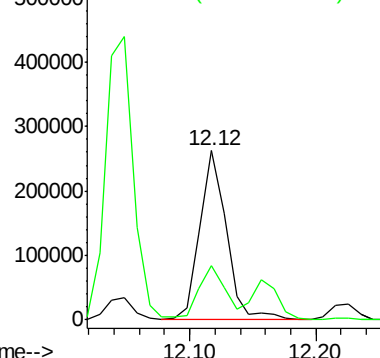
75 100

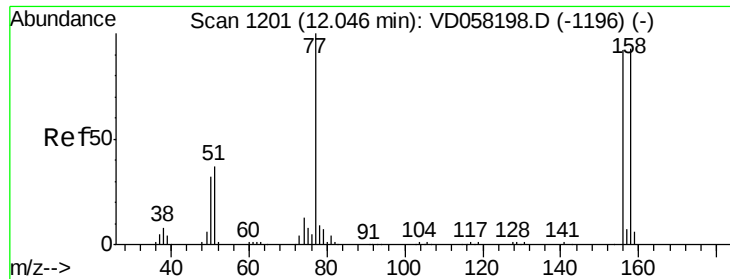
77 31.8 16.0 47.9



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

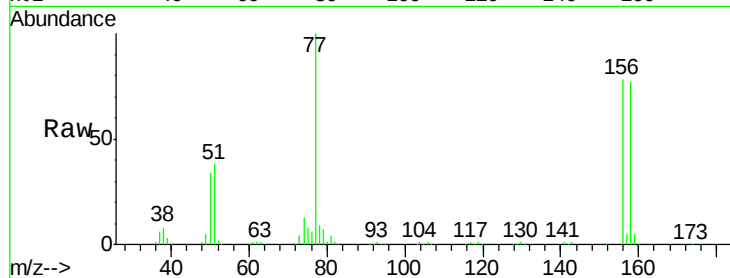




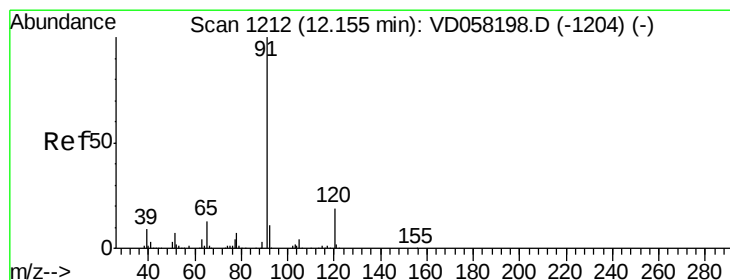
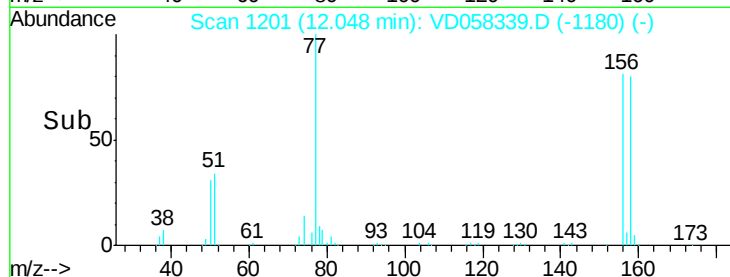
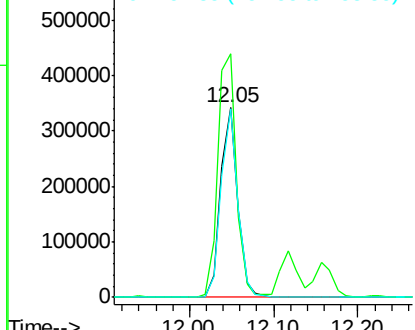
#77
Bromobenzene
Concen: 54.01 ug/l
RT: 12.05 min Scan# 1201
Delta R.T. 0.00 min
Lab File: VD058339.D
Acq: 23 Jun 2018 14:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:156 Resp: 481764
Ion Ratio Lower Upper
156 100
77 128.5 54.5 163.6
158 99.4 50.8 152.5

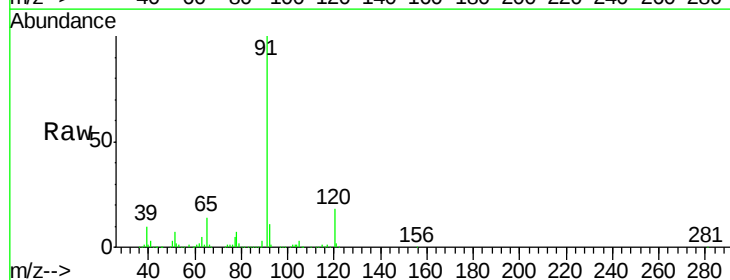


Abundance Ion 155.90 (155.60 to 156.60): V
Ion 76.95 (76.65 to 77.65): VDC
Ion 157.85 (157.55 to 158.55): V

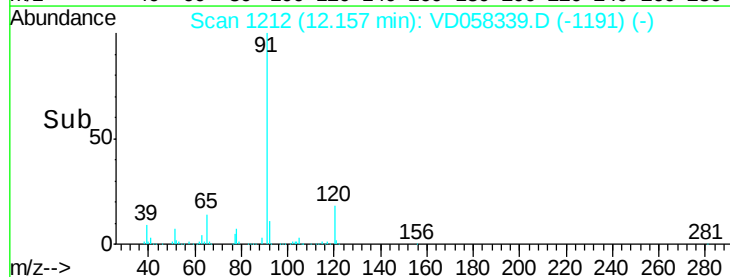
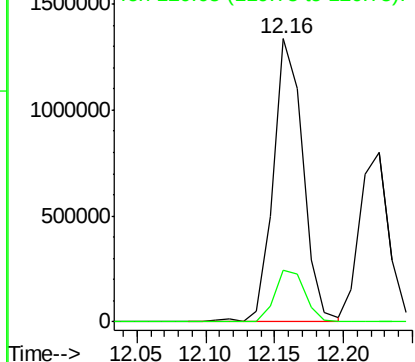


#78
n-propylbenzene
Concen: 51.89 ug/l
RT: 12.16 min Scan# 1212
Delta R.T. 0.00 min
Lab File: VD058339.D
Acq: 23 Jun 2018 14:03

Tgt Ion: 91 Resp: 1996034
Ion Ratio Lower Upper
91 100
120 18.1 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: 53.64 ug/l

RT: 12.23 min Scan# 1219

Delta R.T. 0.01 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

Instrument :

MSVOA_D

ClientSampleId :

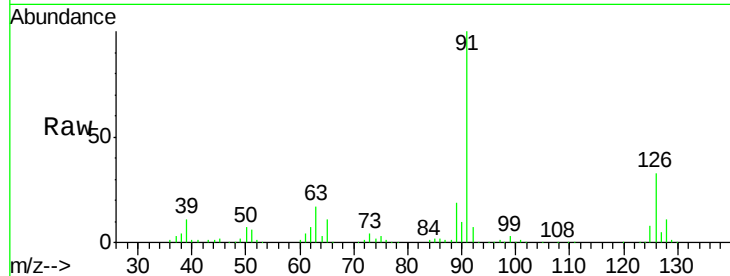
VSTDCCC050

Tot Ion: 91 Resp: 1180714

Ion Ratio Lower Upper

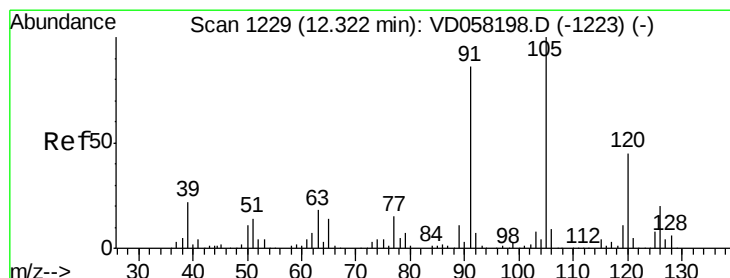
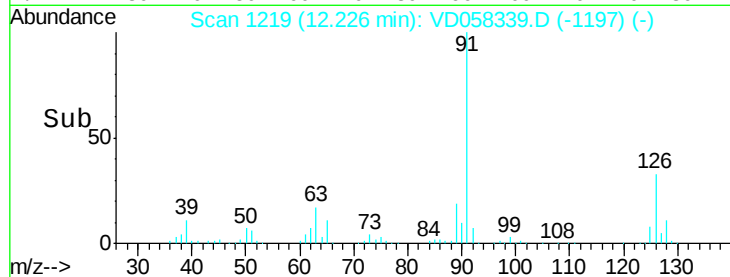
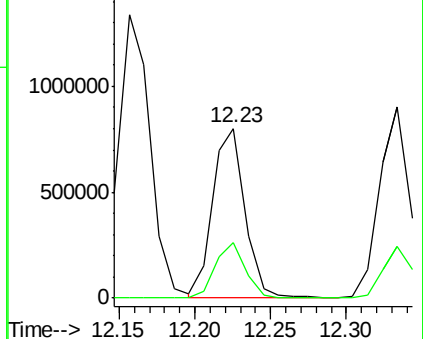
91 100

126 32.6 14.9 44.5



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 49.89 ug/l

RT: 12.32 min Scan# 1229

Delta R.T. 0.00 min

Lab File: VD058339.D

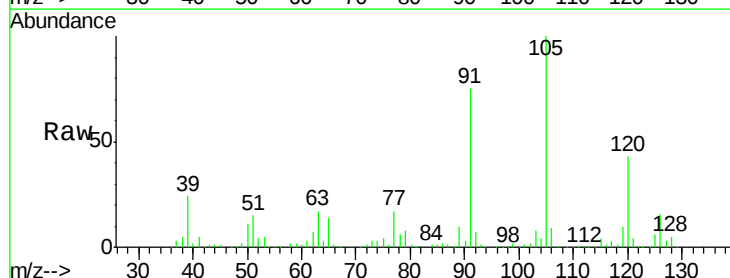
Acq: 23 Jun 2018 14:03

Tgt Ion:105 Resp: 1159013

Ion Ratio Lower Upper

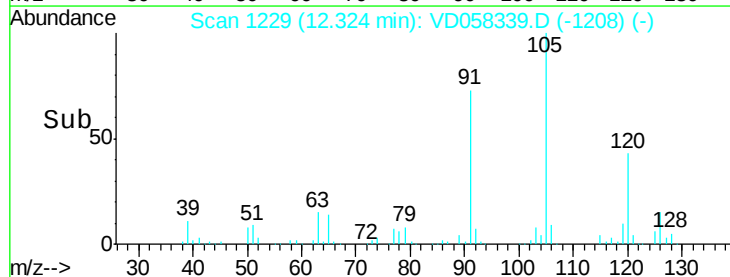
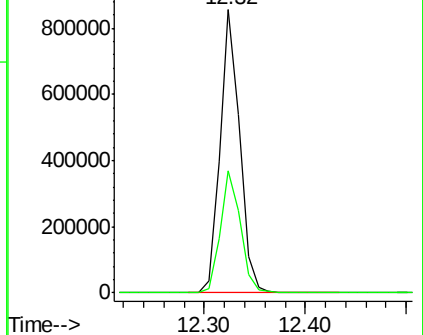
105 100

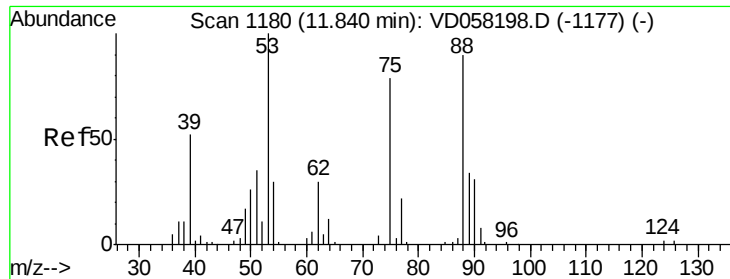
120 43.2 22.5 67.5



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 51.42 ug/l

RT: 11.85 min Scan# 1181

Delta R.T. 0.01 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

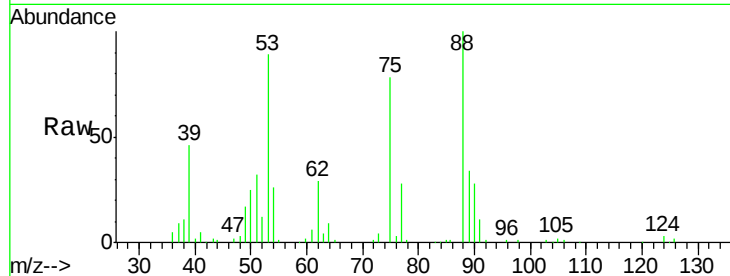
Tot Ion: 75 Resp: 91190

Ion Ratio Lower Upper

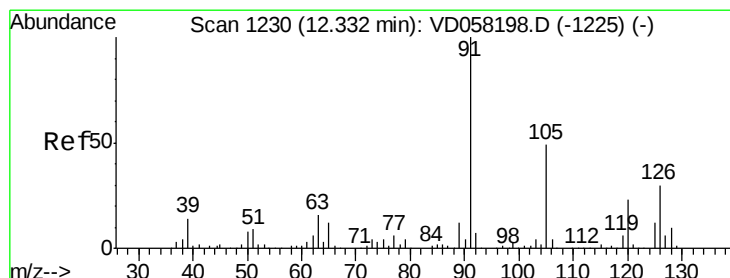
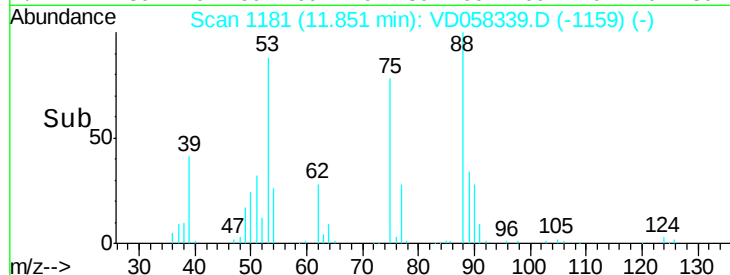
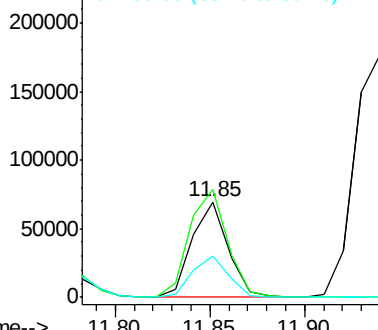
75 100

53 113.5 100.8 151.2

89 43.8 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: 59.63 ug/l

RT: 12.33 min Scan# 1230

Delta R.T. 0.00 min

Lab File: VD058339.D

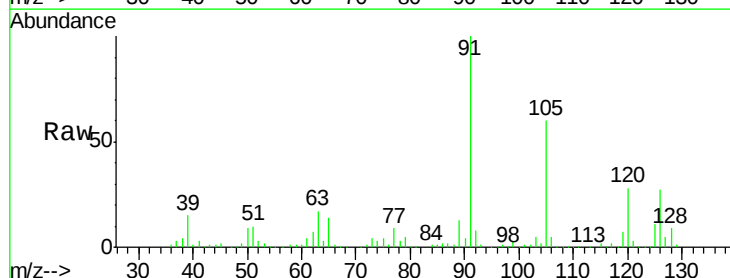
Acq: 23 Jun 2018 14:03

Tgt Ion: 91 Resp: 1256769

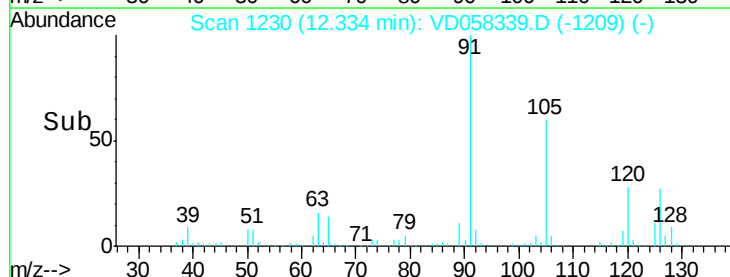
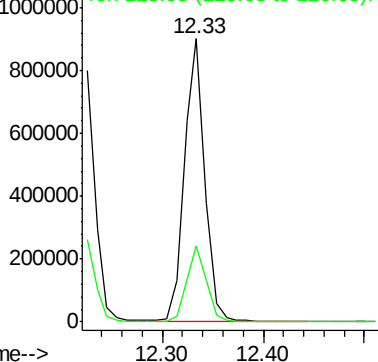
Ion Ratio Lower Upper

91 100

126 26.9 14.9 44.9



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

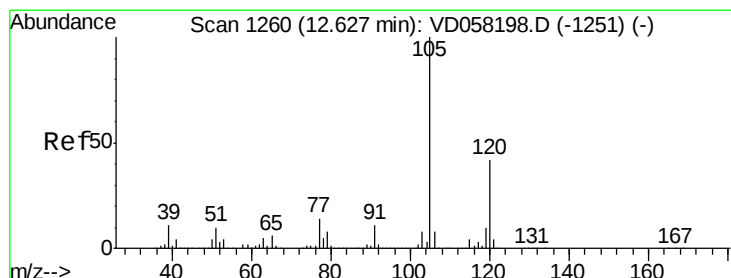
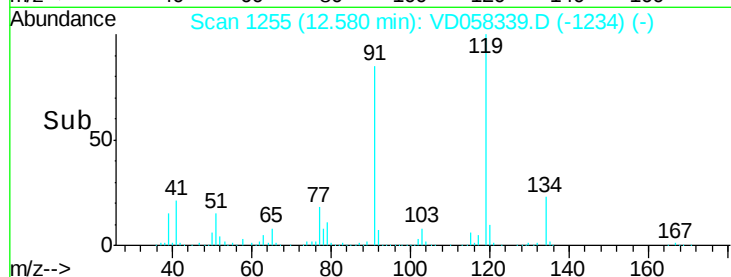
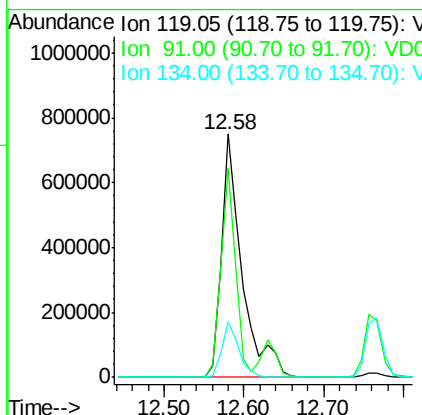
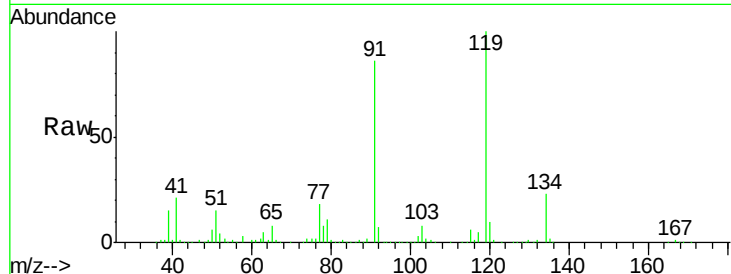




#83
tert-Butylbenzene
Concen: 50.95 ug/l
RT: 12.58 min Scan# 1255
Delta R.T. 0.00 min
Lab File: VD058339.D
Acq: 23 Jun 2018 14:03

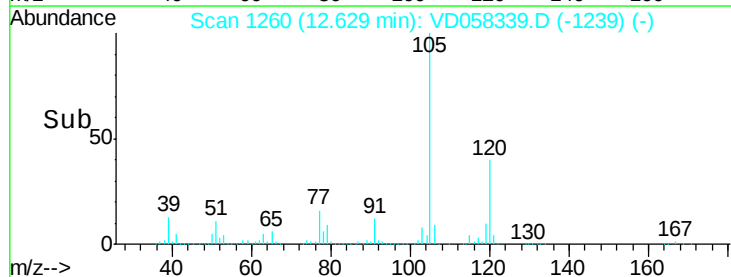
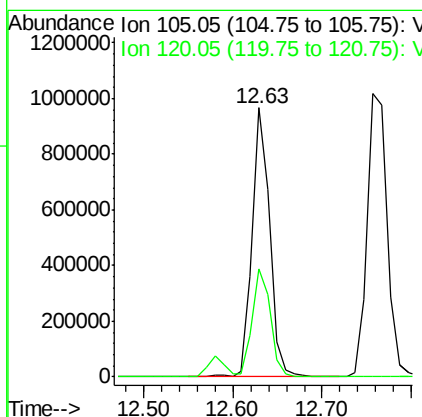
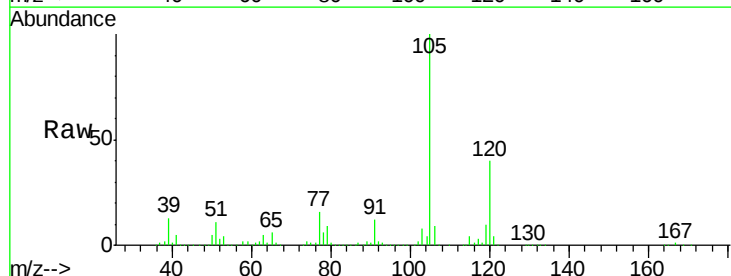
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

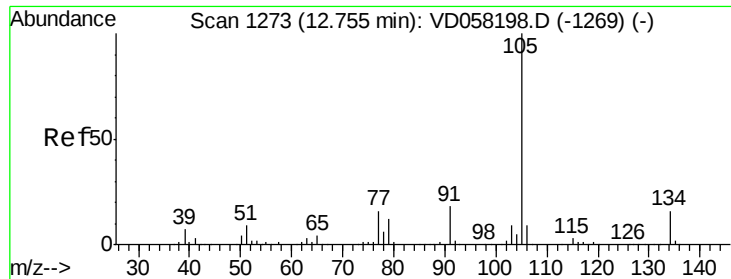
Tot Ion:119 Resp: 1360835
Ion Ratio Lower Upper
119 100
91 85.8 38.9 116.6
134 22.6 11.2 33.5



#84
1,2,4-Trimethylbenzene
Concen: 51.74 ug/l
RT: 12.63 min Scan# 1260
Delta R.T. 0.00 min
Lab File: VD058339.D
Acq: 23 Jun 2018 14:03

Tgt Ion:105 Resp: 1306714
Ion Ratio Lower Upper
105 100
120 40.2 20.8 62.4

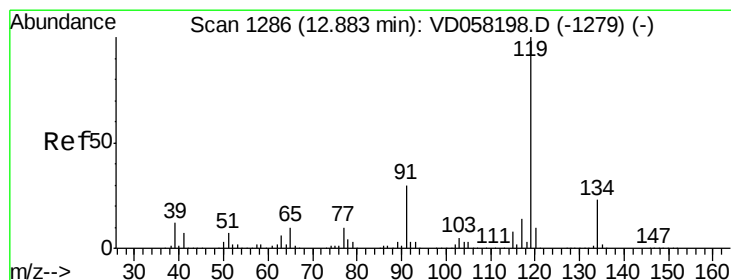
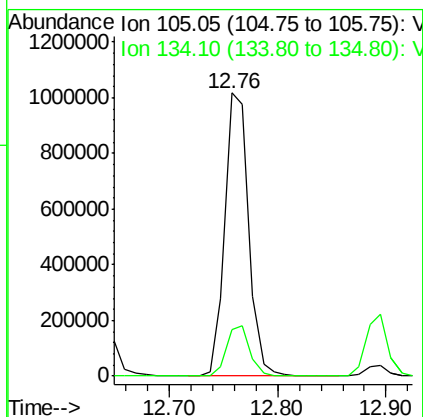
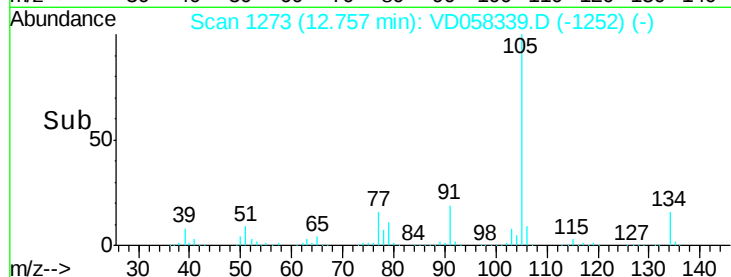
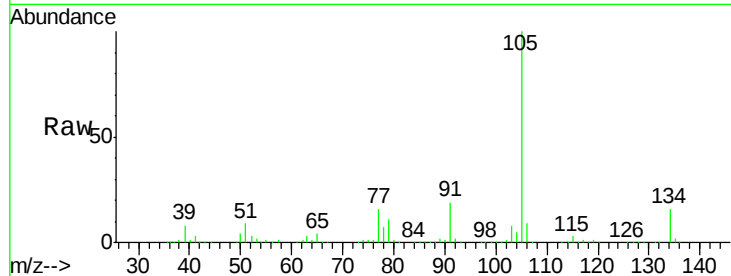




#85
 sec-Butylbenzene
 Concen: 49.60 ug/l
 RT: 12.76 min Scan# 1273
 Delta R.T. 0.00 min
 Lab File: VD058339.D
 Acq: 23 Jun 2018 14:03

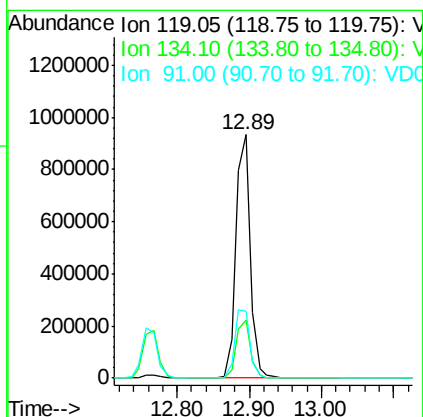
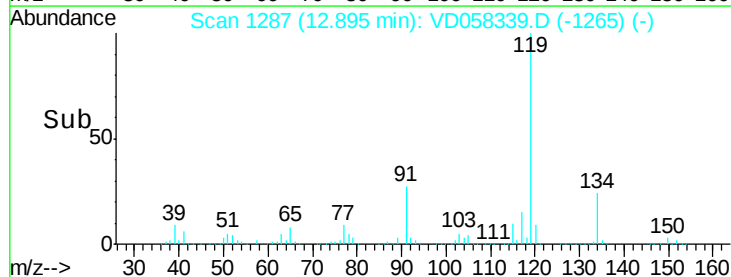
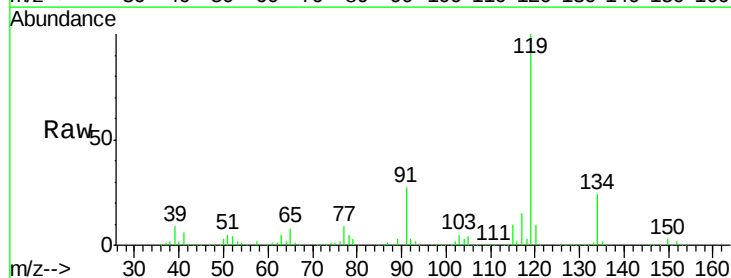
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

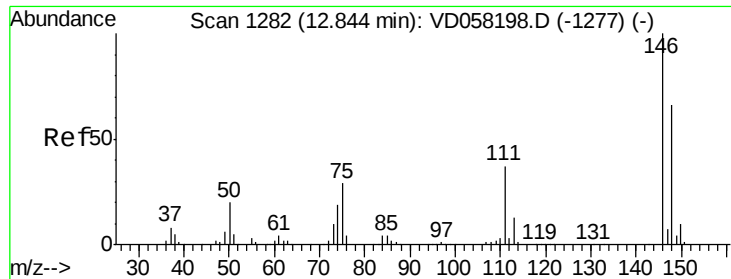
Tot Ion:105 Resp: 1552944
 Ion Ratio Lower Upper
 105 100
 134 16.4 8.1 24.3



#86
 p-Isopropyltoluene
 Concen: 51.29 ug/l
 RT: 12.89 min Scan# 1287
 Delta R.T. 0.01 min
 Lab File: VD058339.D
 Acq: 23 Jun 2018 14:03

Tgt Ion:119 Resp: 1301467
 Ion Ratio Lower Upper
 119 100
 134 23.8 11.6 34.8
 91 27.4 15.0 45.1

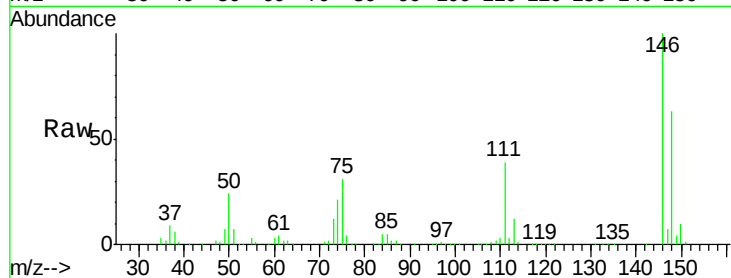




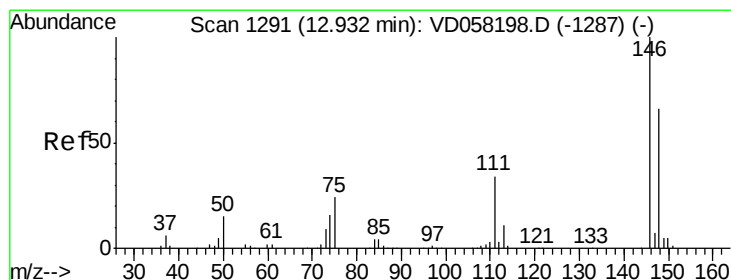
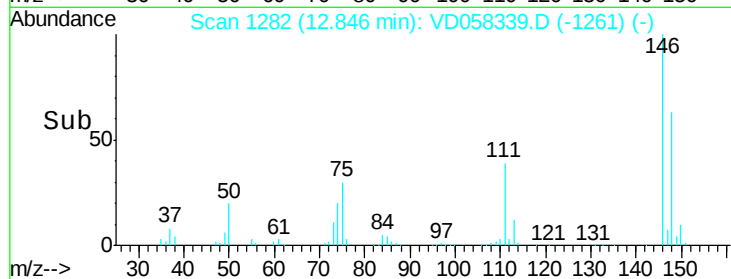
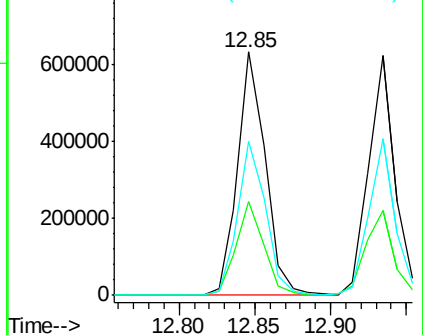
#87
 1,3-Dichlorobenzene
 Concen: 51.90 ug/l
 RT: 12.85 min Scan# 1282
 Delta R.T. 0.00 min
 Lab File: VD058339.D
 Acq: 23 Jun 2018 14:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:146 Resp: 804621
 Ion Ratio Lower Upper
 146 100
 111 38.7 18.4 55.0
 148 63.4 32.8 98.4

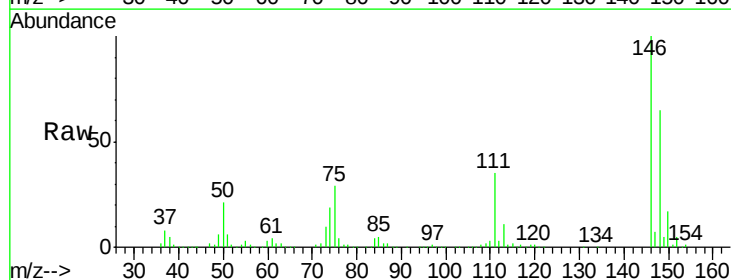


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

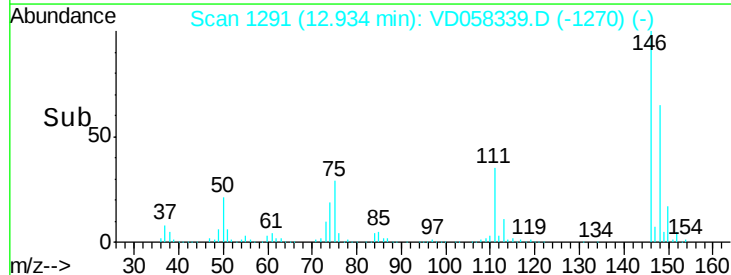
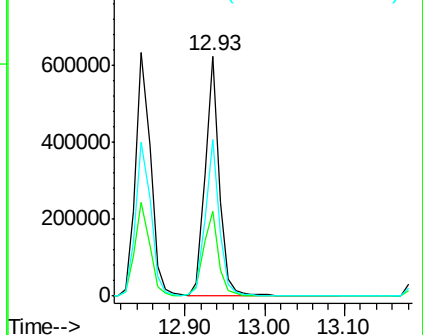


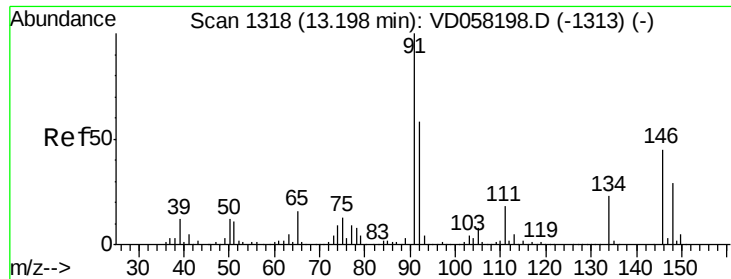
#88
 1,4-Dichlorobenzene
 Concen: 50.54 ug/l
 RT: 12.93 min Scan# 1291
 Delta R.T. 0.00 min
 Lab File: VD058339.D
 Acq: 23 Jun 2018 14:03

Tgt Ion:146 Resp: 765161
 Ion Ratio Lower Upper
 146 100
 111 35.1 17.2 51.5
 148 65.4 33.1 99.3



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

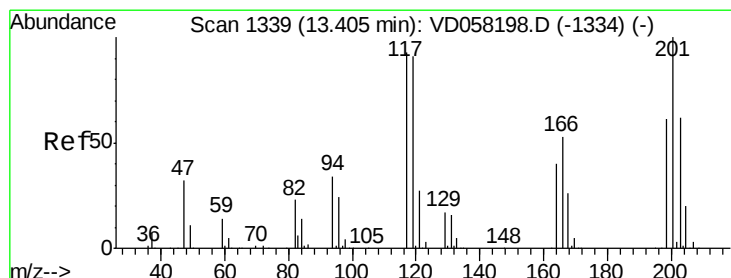
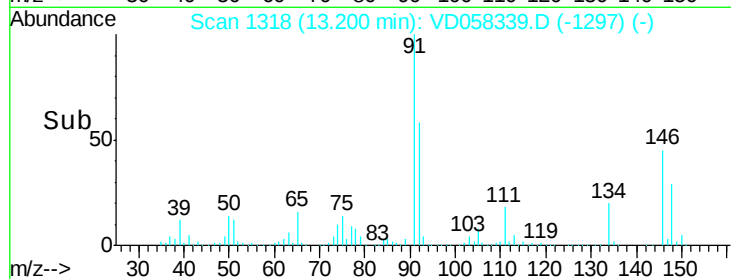
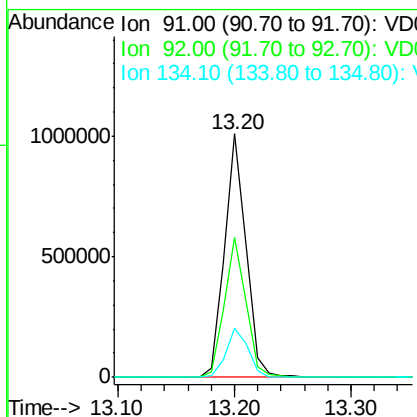
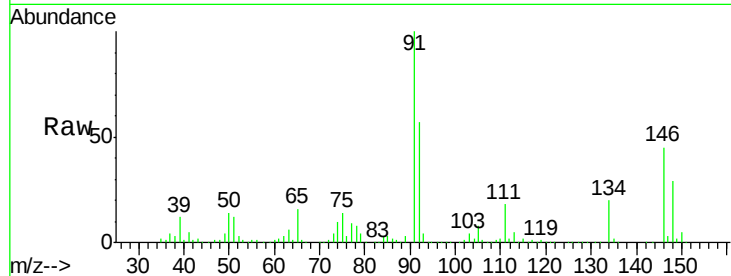




#89
n-Butylbenzene
Concen: 48.40 ug/l
RT: 13.20 min Scan# 1318
Delta R.T. 0.00 min
Lab File: VD058339.D
Acq: 23 Jun 2018 14:03

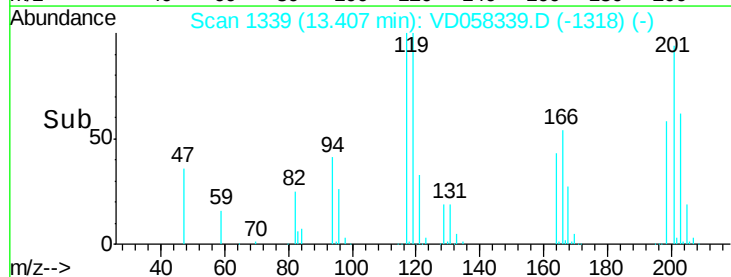
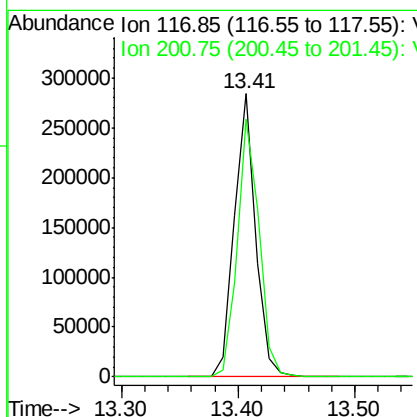
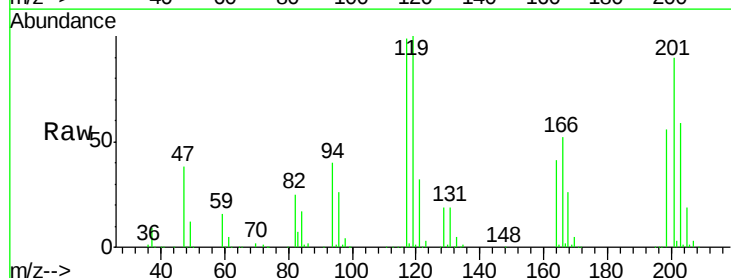
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

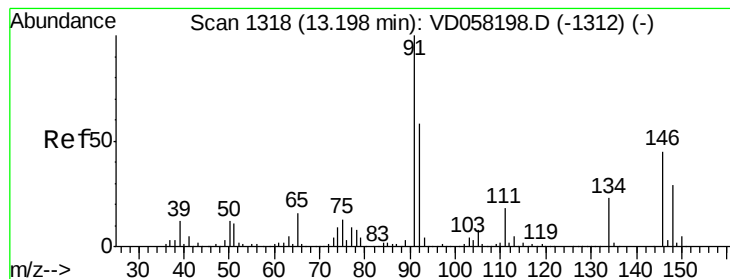
Tot Ion: 91 Resp: 1290537
Ion Ratio Lower Upper
91 100
92 57.5 29.2 87.6
134 20.1 11.3 33.8



#90
Hexachloroethane
Concen: 54.53 ug/l
RT: 13.41 min Scan# 1339
Delta R.T. 0.00 min
Lab File: VD058339.D
Acq: 23 Jun 2018 14:03

Tgt Ion: 117 Resp: 359078
Ion Ratio Lower Upper
117 100
201 91.1 53.8 161.4





#91

1,2-Dichlorobenzene

Concen: 45.87 ug/l

RT: 13.20 min Scan# 1318

Delta R.T. 0.00 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

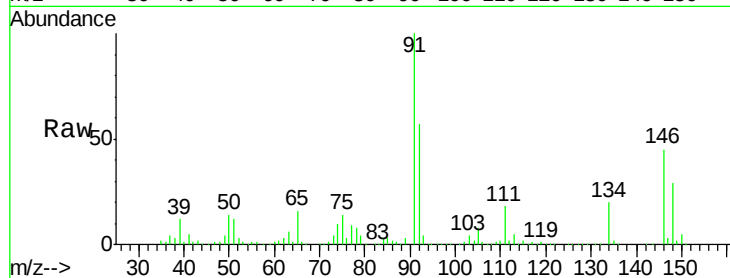
Tot Ion:146 Resp: 605207

Ion Ratio Lower Upper

146 100

111 40.6 19.6 58.7

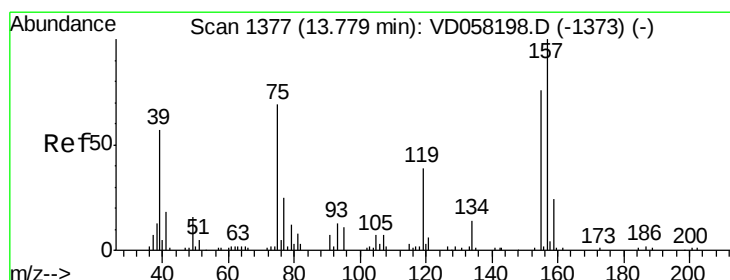
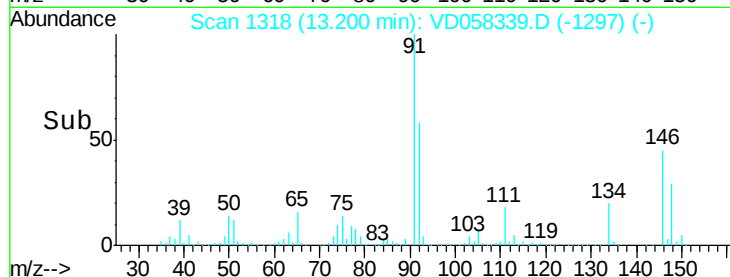
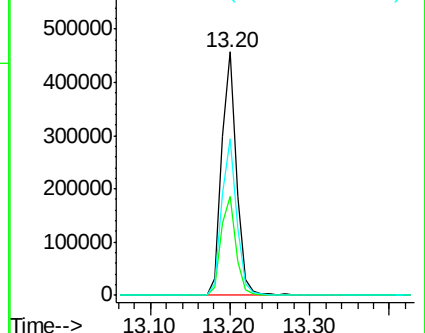
148 64.5 32.0 96.2



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: 53.53 ug/l

RT: 13.78 min Scan# 1377

Delta R.T. 0.00 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

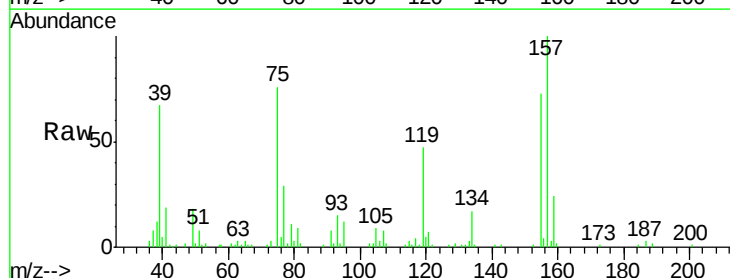
Tgt Ion: 75 Resp: 59054

Ion Ratio Lower Upper

75 100

155 96.4 54.5 163.5

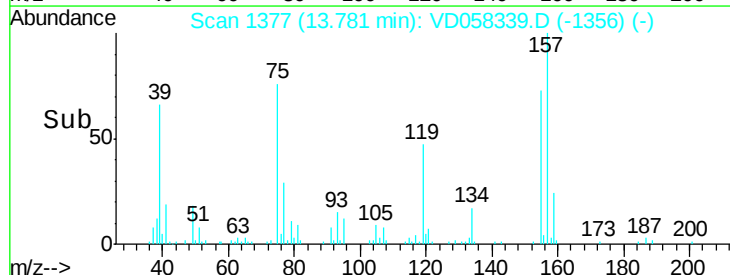
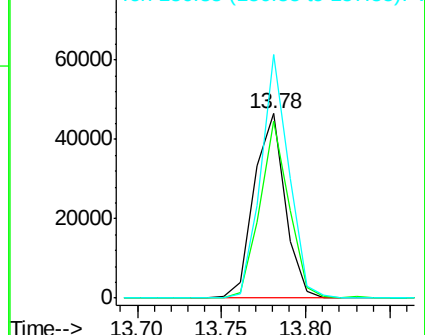
157 132.1 72.0 215.9

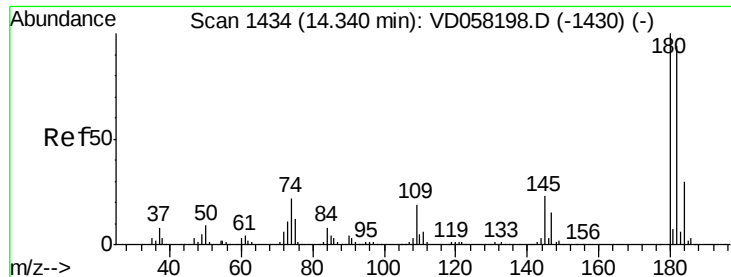


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

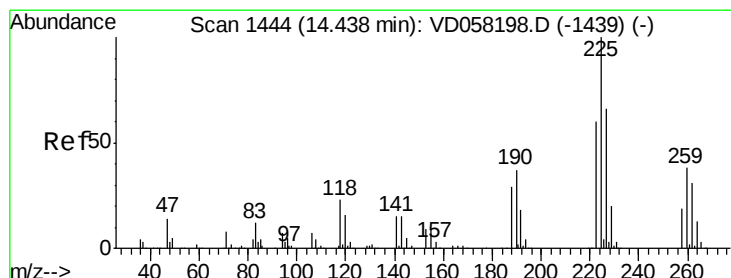
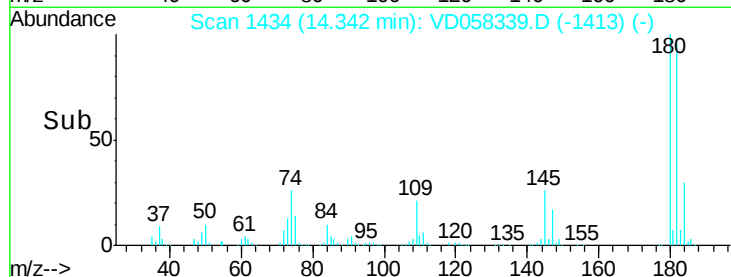
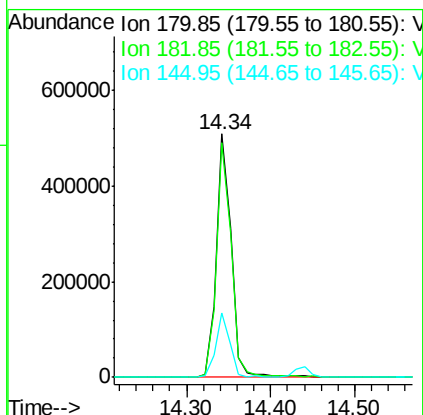
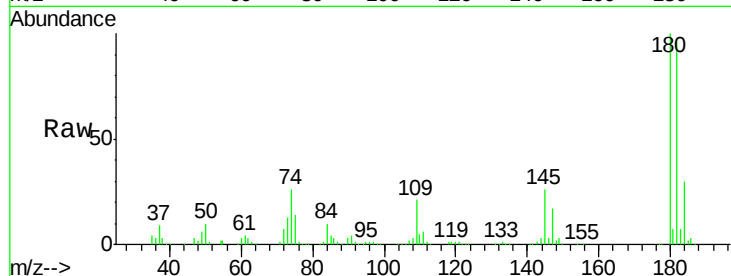




#93
 1,2,4-Trichlorobenzene
 Concen: 49.49 ug/l
 RT: 14.34 min Scan# 1434
 Delta R.T. 0.00 min
 Lab File: VD058339.D
 Acq: 23 Jun 2018 14:03

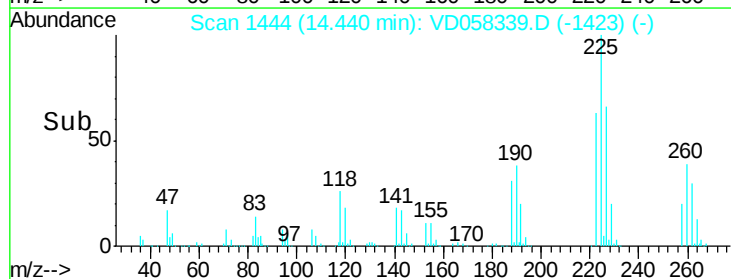
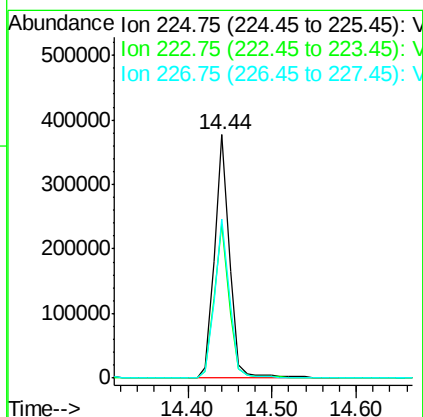
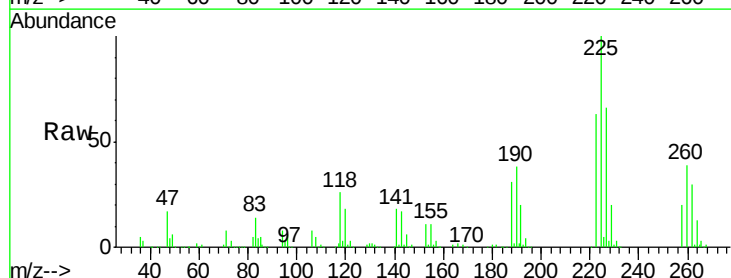
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

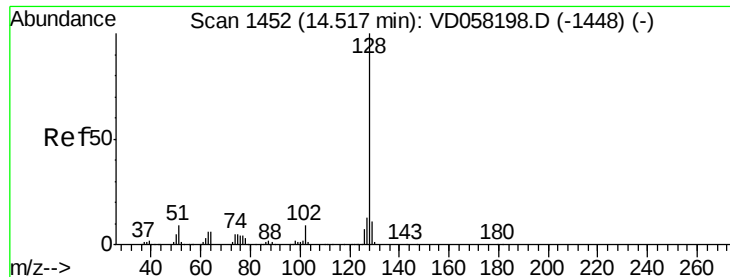
Tot Ion:180 Resp: 624433
 Ion Ratio Lower Upper
 180 100
 182 96.3 47.1 141.3
 145 26.3 11.7 35.0



#94
 Hexachlorobutadiene
 Concen: 47.43 ug/l
 RT: 14.44 min Scan# 1444
 Delta R.T. 0.00 min
 Lab File: VD058339.D
 Acq: 23 Jun 2018 14:03

Tgt Ion:225 Resp: 468137
 Ion Ratio Lower Upper
 225 100
 223 63.5 30.1 90.3
 227 65.5 33.0 98.9





#95

Naphthalene

Concen: 48.73 ug/l

RT: 14.52 min Scan# 1452

Delta R.T. 0.00 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

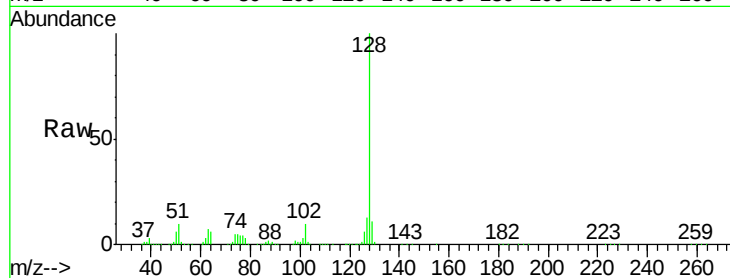
Tot Ion:128 Resp: 809964

Ion Ratio Lower Upper

128 100

127 12.6 10.0 15.0

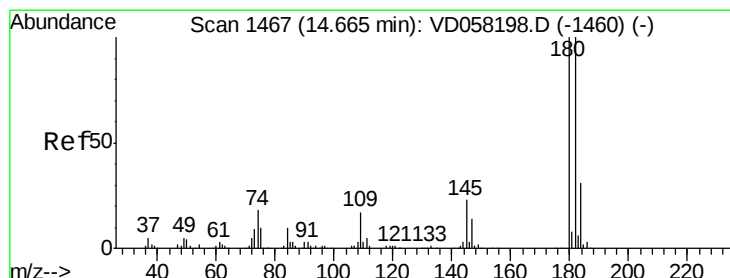
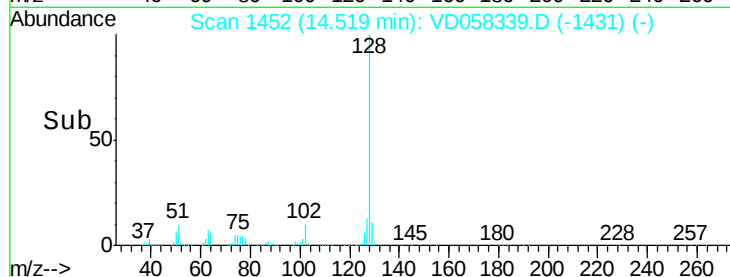
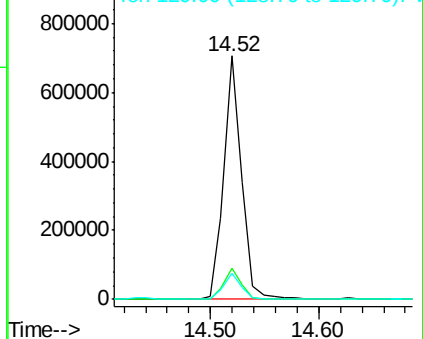
129 10.9 8.7 13.1



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: 47.87 ug/l

RT: 14.67 min Scan# 1467

Delta R.T. 0.00 min

Lab File: VD058339.D

Acq: 23 Jun 2018 14:03

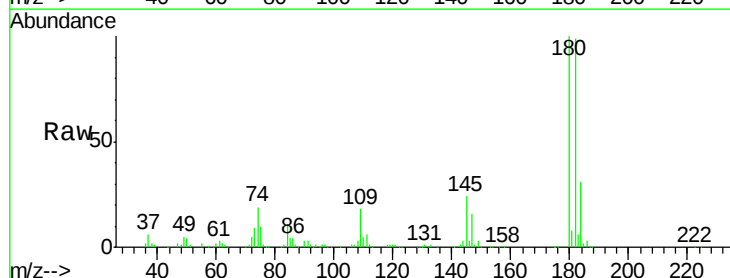
Tgt Ion:180 Resp: 528803

Ion Ratio Lower Upper

180 100

182 98.9 49.9 149.6

145 24.2 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

