

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032519\
 Data File : VD061313.D
 Acq On : 25 Mar 2019 20:53
 Operator : VA/AP
 Sample : VSTDCCC050EC
 Misc : 5.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Quant Time: Mar 26 04:30:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 26 03:31:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	734068	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	1245031	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	956811	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	455310	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.47	65	300739	47.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.98%	
35) Dibromofluoromethane	6.93	113	477835	50.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.32%	
50) Toluene-d8	10.42	98	1090102	47.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.38%	
62) 4-Bromofluorobenzene	13.56	95	418234	46.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.82%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.60	85	391332	52.141	ug/l	100
3) Chloromethane	1.77	50	279841	47.798	ug/l	100
4) Vinyl Chloride	1.86	62	273332	49.931	ug/l	98
5) Bromomethane	2.17	94	52325	47.094	ug/l	98
6) Chloroethane	2.29	64	100894	58.585	ug/l	97
7) Trichlorofluoromethane	2.55	101	395274	48.849	ug/l	100
8) Diethyl Ether	2.89	74	148434	61.695	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.16	101	424801	51.578	ug/l	94
10) Methyl Iodide	3.33	142	658283	57.211	ug/l	96
11) Tert butyl alcohol	4.07	59	112994	335.153	ug/l	99
12) 1,1-Dichloroethene	3.14	96	367449	51.849	ug/l	97
13) Acrolein	3.05	56	90829	246.128	ug/l	100
14) Allyl chloride	3.64	41	532833	53.001	ug/l	99
15) Acrylonitrile	4.21	53	379082	319.721	ug/l	97
16) Acetone	3.23	43	420950	277.874	ug/l	94
17) Carbon Disulfide	3.40	76	1254871	53.316	ug/l	99
18) Methyl Acetate	3.66	43	170851	59.666	ug/l	94
19) Methyl tert-butyl Ether	4.25	73	733142	58.742	ug/l	98
20) Methylene Chloride	3.83	84	436326	50.747	ug/l	98
21) trans-1,2-Dichloroethene	4.24	96	413184	52.116	ug/l	93
22) Diisopropyl ether	5.13	45	1162928	54.912	ug/l	98
23) Vinyl Acetate	5.07	43	3440942	304.209	ug/l	99
24) 1,1-Dichloroethane	5.00	63	698349	56.586	ug/l	98
25) 2-Butanone	6.08	43	538946	307.584	ug/l	98
26) 2,2-Dichloropropane	6.04	77	501861	47.890	ug/l	97
27) cis-1,2-Dichloroethene	6.05	96	458399	53.728	ug/l	99
28) Bromochloromethane	6.45	49	265524	51.402	ug/l	92
29) Tetrahydrofuran	6.46	42	270489	310.140	ug/l	99
30) Chloroform	6.68	83	721259	54.843	ug/l	98
31) Cyclohexane	6.96	56	544508	54.359	ug/l	98
32) 1,1,1-Trichloroethane	6.88	97	618099	53.067	ug/l	100
36) 1,1-Dichloropropene	7.16	75	507414	49.813	ug/l	99
37) Ethyl Acetate	6.19	43	276763	65.049	ug/l	97
38) Carbon Tetrachloride	7.12	117	642183	55.160	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.87	83	537346	50.934	ug/l	97
40) Benzene	7.47	78	1331462	52.630	ug/l	99
41) Methacrylonitrile	6.45	41	294267	59.519	ug/l #	96
42) 1,2-Dichloroethane	7.58	62	444887	56.426	ug/l	98
43) Isopropyl Acetate	9.25	43	357298	58.242	ug/l #	98
44) Trichloroethene	8.55	130	511065	55.858	ug/l	100
45) 1,2-Dichloropropane	8.94	63	359305	57.545	ug/l	98
46) Dibromomethane	9.07	93	249107	58.204	ug/l	98
47) Bromodichloromethane	9.38	83	576054	57.424	ug/l	99
48) Methyl methacrylate	9.13	41	203915	62.277	ug/l	96
49) 1,4-Dioxane	9.09	88	49881	1388.446	ug/l	94
51) 4-Methyl-2-Pentanone	10.30	43	1100447	301.331	ug/l	99
52) Toluene	10.52	92	807246	52.149	ug/l	98
53) t-1,3-Dichloropropene	10.92	75	512993	58.843	ug/l	100
54) cis-1,3-Dichloropropene	10.04	75	612149	57.503	ug/l	99
55) 1,1,2-Trichloroethane	11.20	97	285345	55.524	ug/l	99
56) Ethyl methacrylate	11.05	69	348009	63.460	ug/l	98
57) 1,3-Dichloropropane	11.41	76	442776	57.048	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.86	63	748985	262.531	ug/l	95
59) 2-Hexanone	11.53	43	828853	312.494	ug/l	97
60) Dibromochloromethane	11.69	129	483830	60.110	ug/l	100
61) 1,2-Dibromoethane	11.81	107	363902	60.604	ug/l	100
64) Tetrachloroethene	11.26	164	368738	55.944	ug/l	96
65) Chlorobenzene	12.40	112	1000864	56.791	ug/l	98
66) 1,1,1,2-Tetrachloroethane	12.52	131	388192	56.813	ug/l	99
67) Ethyl Benzene	12.53	91	1401384	51.959	ug/l	98
68) m/p-Xylenes	12.67	106	1114938	105.900	ug/l	98
69) o-Xylene	13.05	106	536543	54.948	ug/l	94
70) Styrene	13.08	104	986719	59.543	ug/l	96
71) Bromoform	13.23	173	265293	63.449	ug/l #	96
73) Isopropylbenzene	13.40	105	1430768	48.313	ug/l	97
74) N-amyl acetate	13.26	43	411463	53.106	ug/l	97
75) 1,1,2,2-Tetrachloroethane	13.70	83	337571	58.781	ug/l	97
76) 1,2,3-Trichloropropane	13.74	75	341941	60.389	ug/l	99
77) Bromobenzene	13.67	156	416816	50.388	ug/l	93
78) n-propylbenzene	13.78	91	1839473	55.056	ug/l	96
79) 2-Chlorotoluene	13.84	91	1074092	55.214	ug/l	96
80) 1,3,5-Trimethylbenzene	14.24	105	1223417	52.367	ug/l	99
81) trans-1,4-Dichloro-2-buten	13.47	75	108163	60.529	ug/l	97
82) 4-Chlorotoluene	13.95	91	1031737	48.514	ug/l	93
83) tert-Butylbenzene	14.19	119	1474132	55.264	ug/l	96
84) 1,2,4-Trimethylbenzene	14.24	105	1223417	52.367	ug/l	99
85) sec-Butylbenzene	14.37	105	1487487	50.073	ug/l	98
86) p-Isopropyltoluene	14.49	119	1294375	48.839	ug/l	97
87) 1,3-Dichlorobenzene	14.45	146	764253	52.122	ug/l	98
88) 1,4-Dichlorobenzene	14.54	146	761275	53.598	ug/l	96
89) n-Butylbenzene	14.80	91	1197140	50.877	ug/l	97
90) Hexachloroethane	15.01	117	366695	51.605	ug/l	87
91) 1,2-Dichlorobenzene	14.81	146	634574	54.238	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	15.38	75	45562	63.490	ug/l	78

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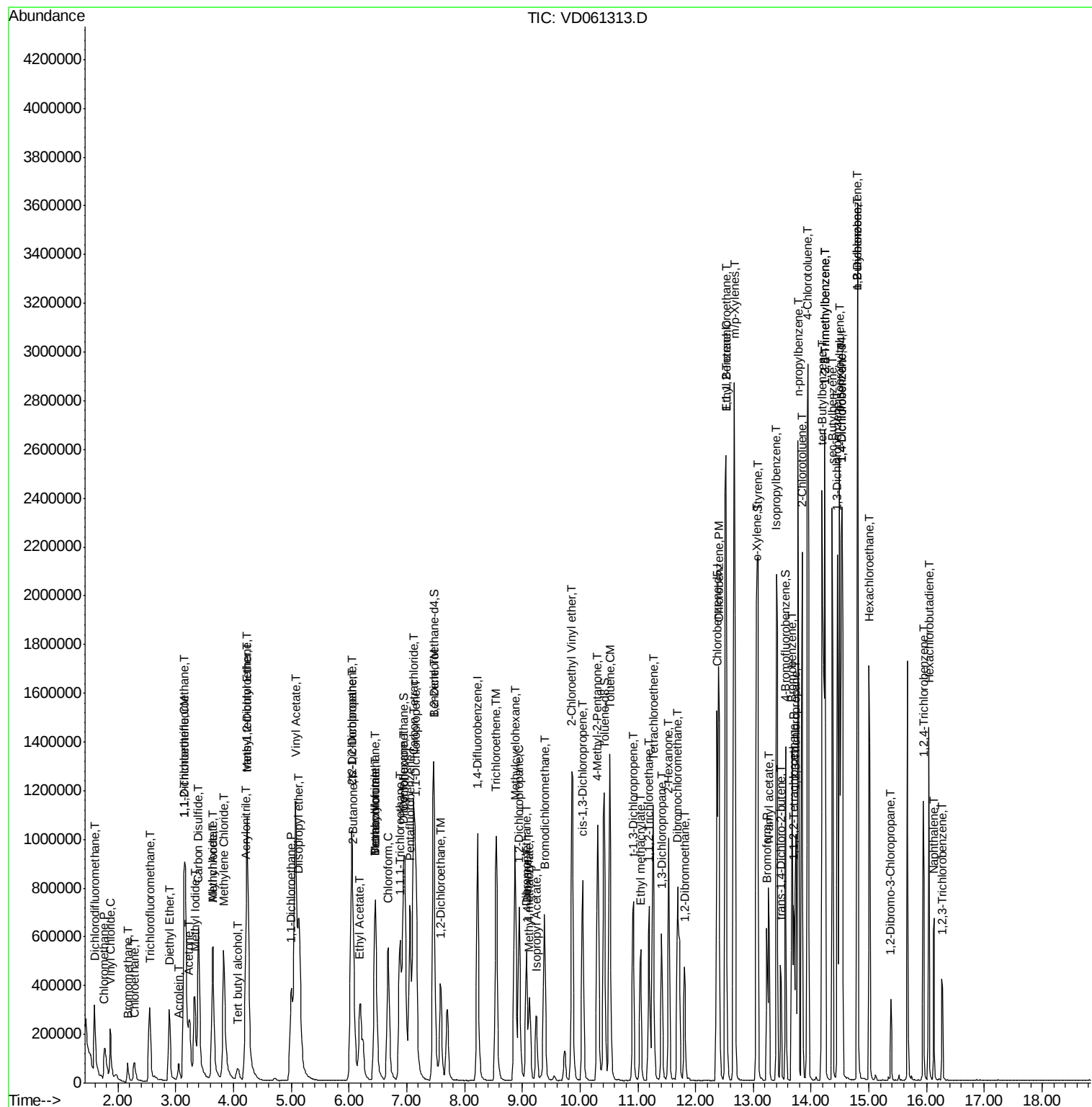
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	304423	56.339	ug/l	98
94) Hexachlorobutadiene	16.04	225	236285	54.270	ug/l	99
95) Naphthalene	16.13	128	476362	60.420	ug/l	100
96) 1,2,3-Trichlorobenzene	16.28	180	123548	48.955	ug/l	95

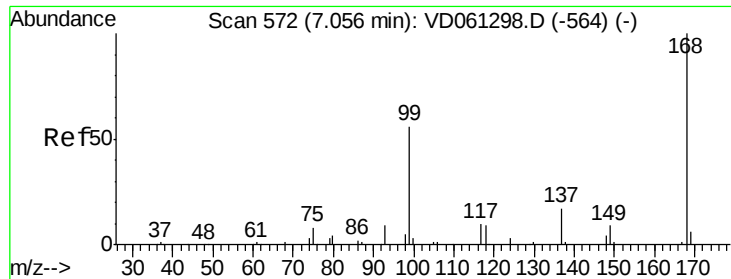
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD032519\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.01 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

Instrument :

MSVOA_D

ClientSampleId :

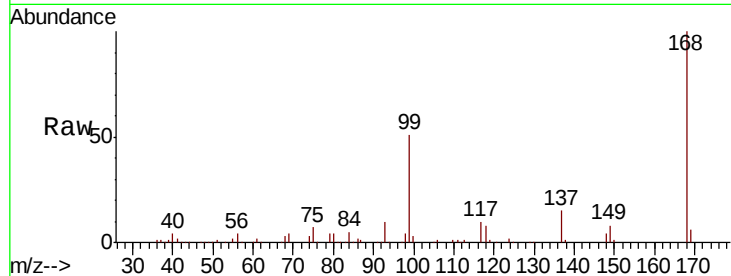
VSTDCCC050EC

Tot Ion:168 Resp: 734068

Ion Ratio Lower Upper

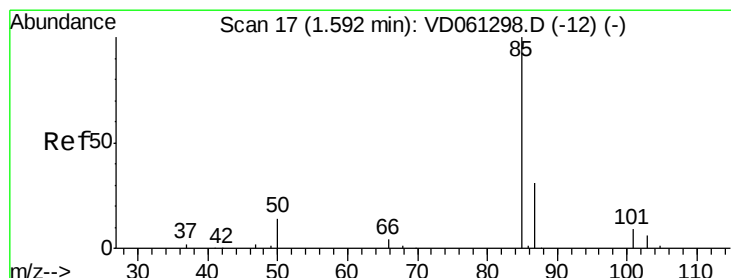
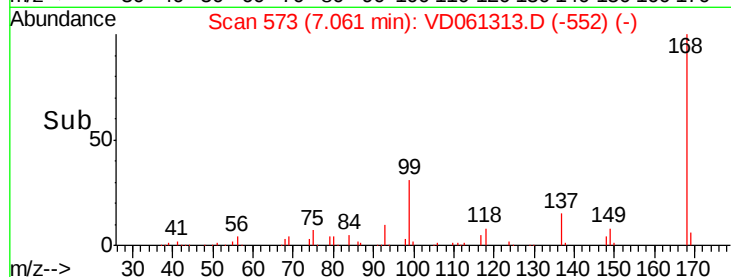
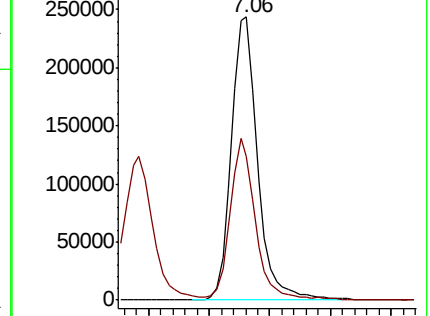
168 100

99 51.0 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 52.141 ug/l

RT: 1.60 min Scan# 18

Delta R.T. 0.01 min

Lab File: VD061313.D

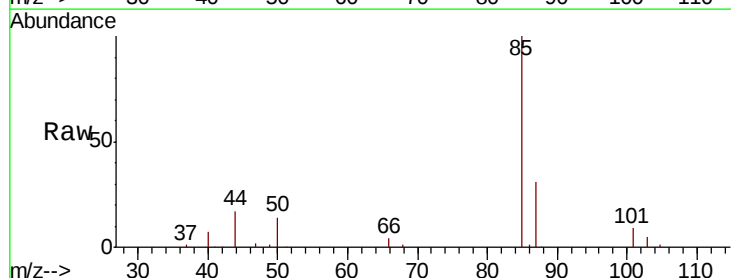
Acq: 25 Mar 2019 20:53

Tgt Ion: 85 Resp: 391332

Ion Ratio Lower Upper

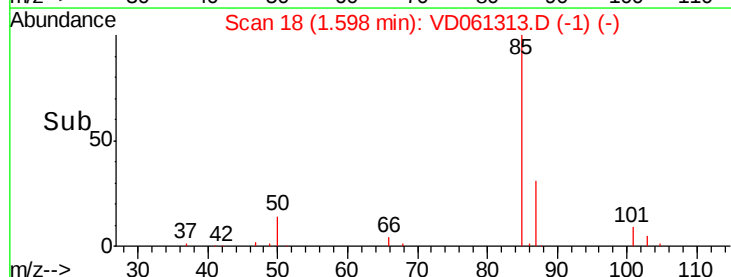
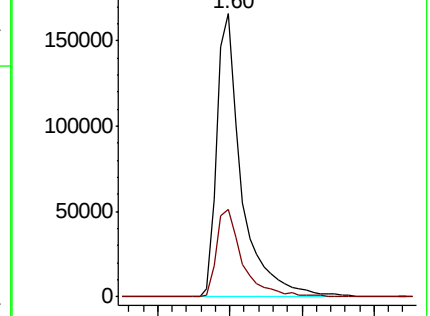
85 100

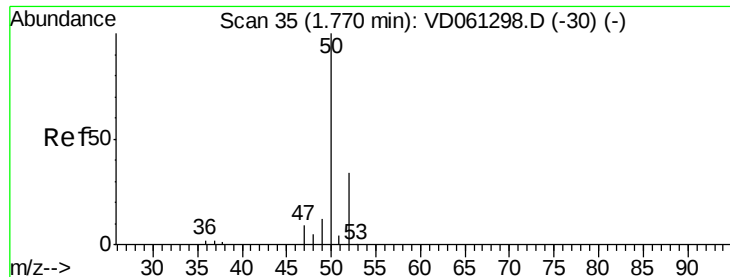
87 30.8 15.4 46.4



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 47.798 ug/l

RT: 1.77 min Scan# 35

Delta R.T. -0.00 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

Instrument :

MSVOA_D

ClientSampleId :

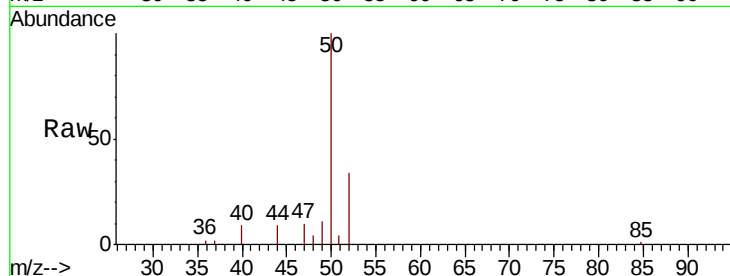
VSTDCCC050EC

Tot Ion: 50 Resp: 279841

Ion Ratio Lower Upper

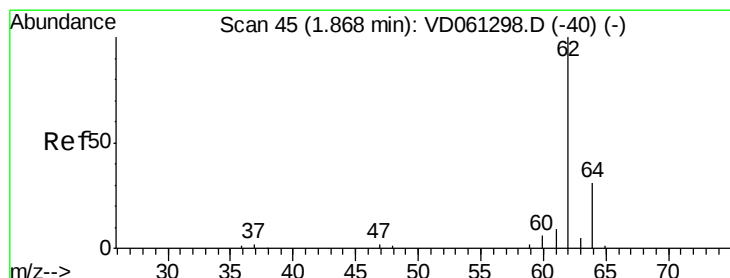
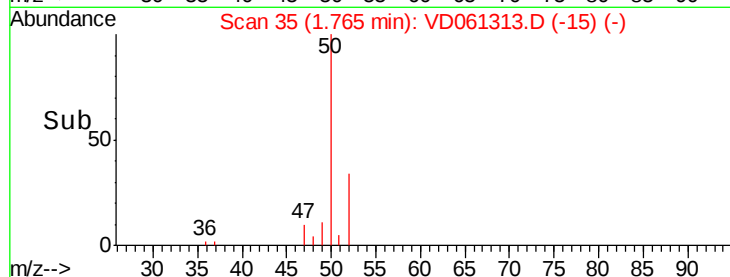
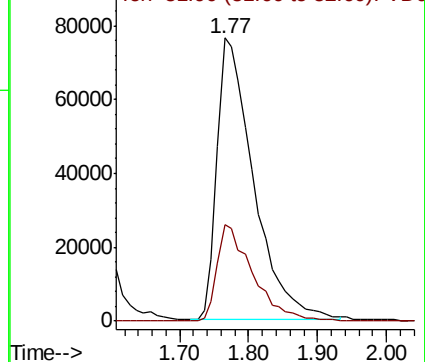
50 100

52 33.9 27.1 40.7



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 49.931 ug/l

RT: 1.86 min Scan# 45

Delta R.T. -0.00 min

Lab File: VD061313.D

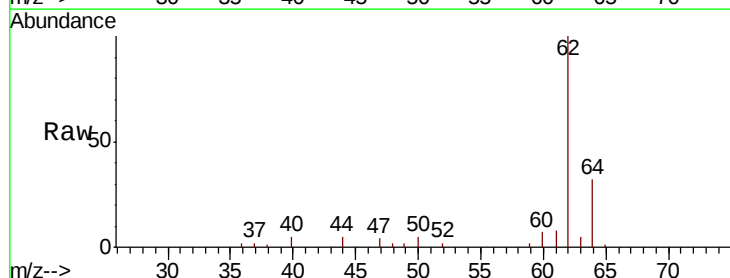
Acq: 25 Mar 2019 20:53

Tgt Ion: 62 Resp: 273332

Ion Ratio Lower Upper

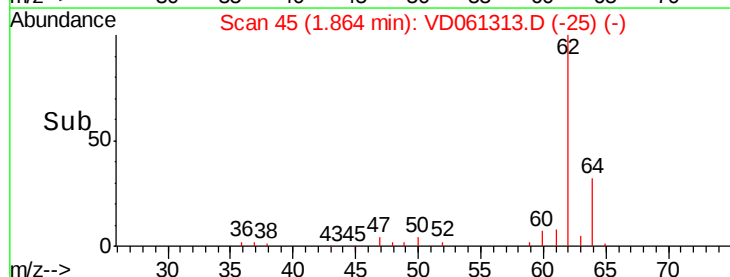
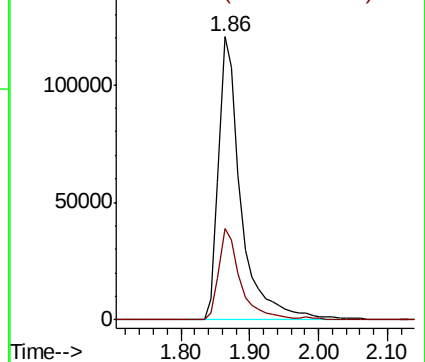
62 100

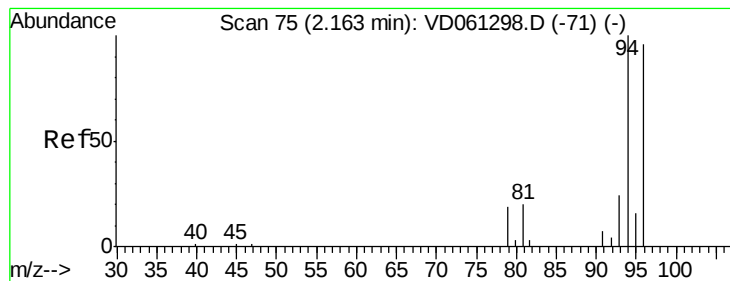
64 32.3 25.1 37.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 47.094 ug/l

RT: 2.17 min Scan# 76

Delta R.T. 0.01 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

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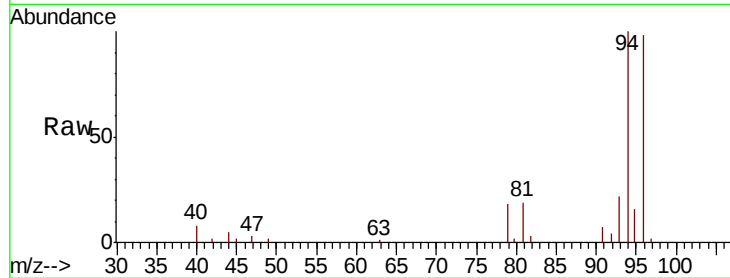
Tot Ion: 94 Resp: 52325

Ion Ratio Lower Upper

94 100

96 97.7 76.9 115.3

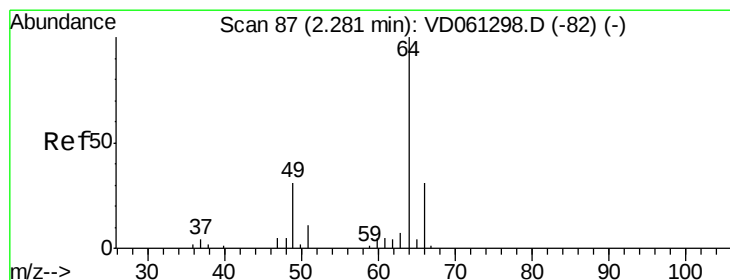
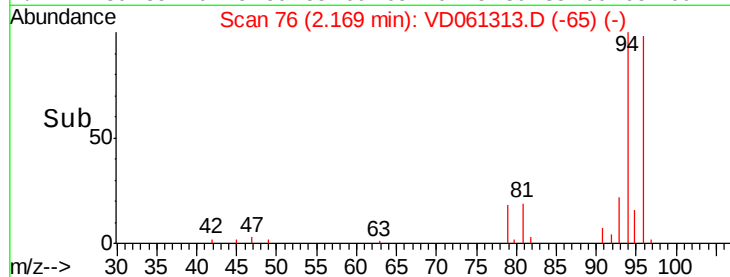
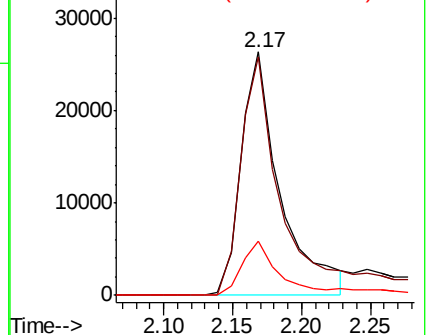
93 22.0 18.8 28.2



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC



#6

Chloroethane

Concen: 58.585 ug/l

RT: 2.29 min Scan# 88

Delta R.T. 0.01 min

Lab File: VD061313.D

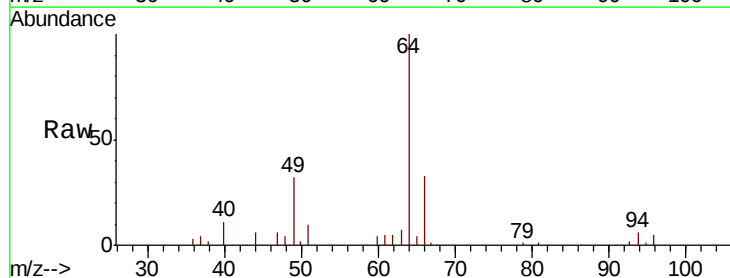
Acq: 25 Mar 2019 20:53

Tgt Ion: 64 Resp: 100894

Ion Ratio Lower Upper

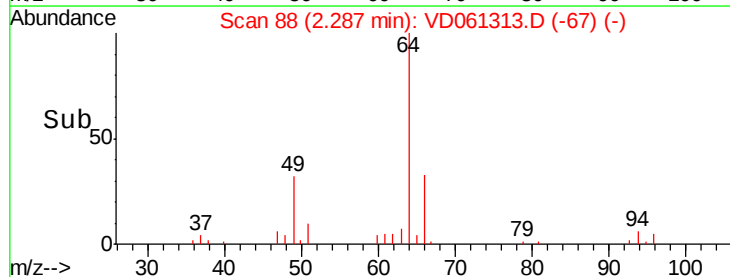
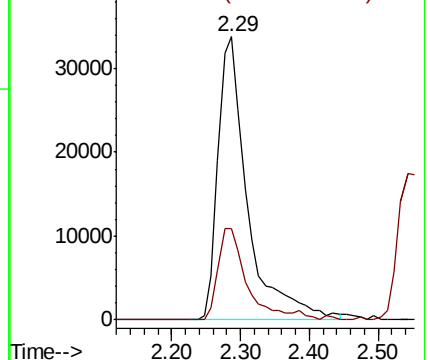
64 100

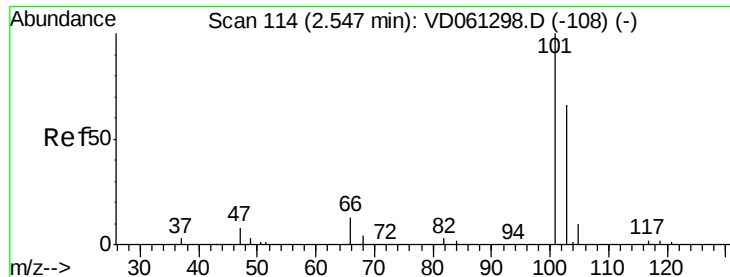
66 32.5 24.6 36.8



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



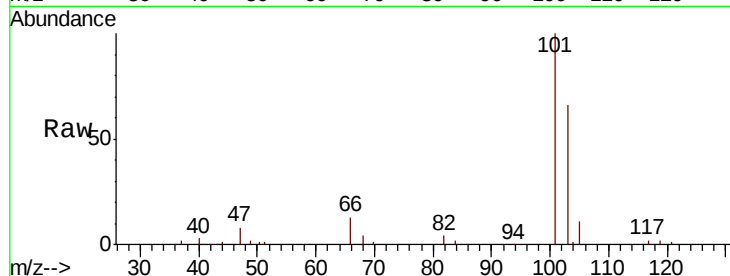


#7

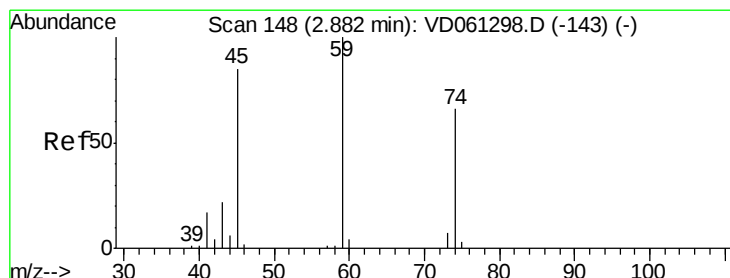
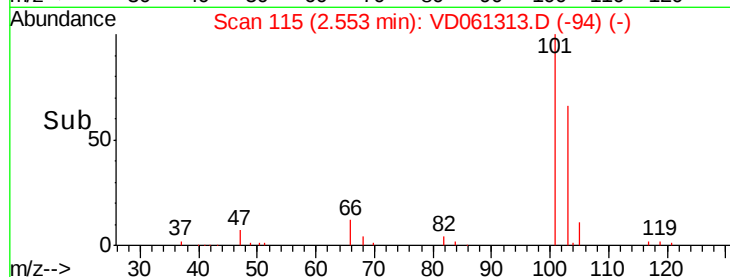
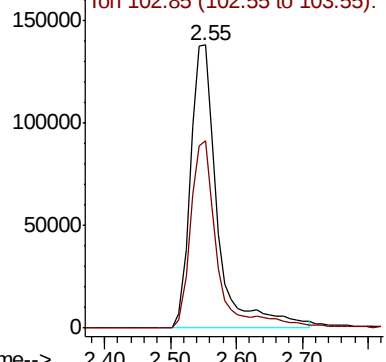
Trichlorofluoromethane
 Concen: 48.849 ug/l
 RT: 2.55 min Scan# 115
 Delta R.T. 0.01 min
 Lab File: VD061313.D
 Acq: 25 Mar 2019 20:53

Instrument :
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 ClientSampleId :
 VSTDCCC050EC

Tot Ion:101 Resp: 395274
 Ion Ratio Lower Upper
 101 100
 103 66.2 52.6 79.0



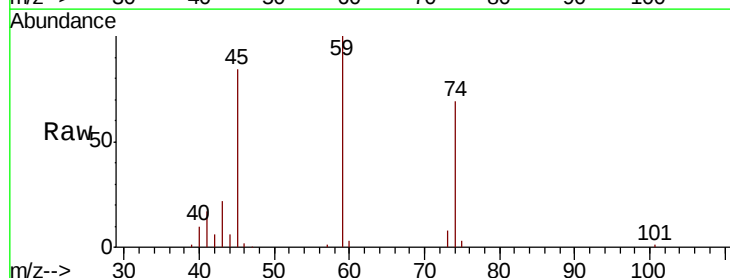
Abundance Ion 100.85 (100.55 to 101.55): V
 Ion 102.85 (102.55 to 103.55): V



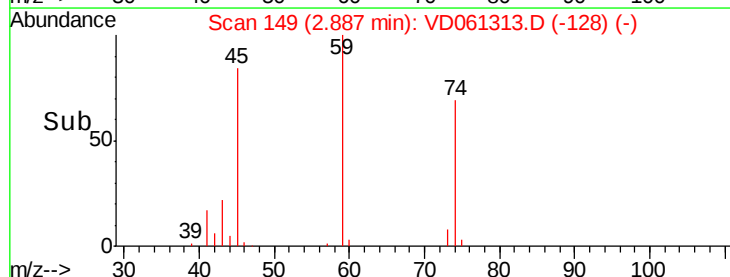
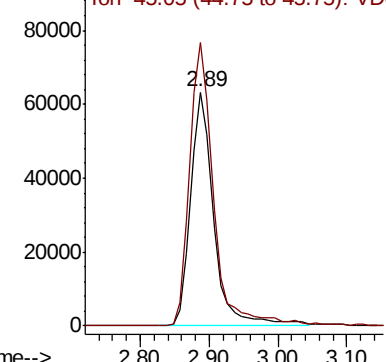
#8

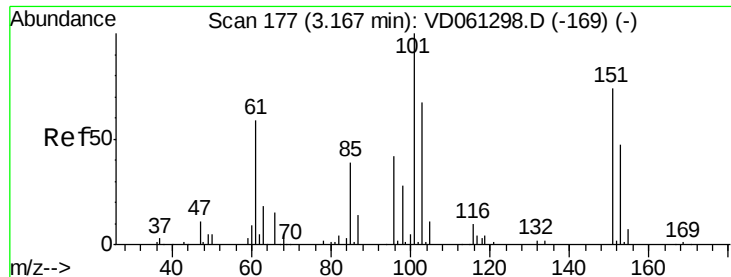
Diethyl Ether
 Concen: 61.695 ug/l
 RT: 2.89 min Scan# 149
 Delta R.T. 0.01 min
 Lab File: VD061313.D
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Tgt Ion: 74 Resp: 148434
 Ion Ratio Lower Upper
 74 100
 45 121.0 64.3 192.9



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





#9

1,1,2-Trichlorotrifluoroethane

Concen: 51.578 ug/l

RT: 3.16 min Scan# 177

Delta R.T. -0.00 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

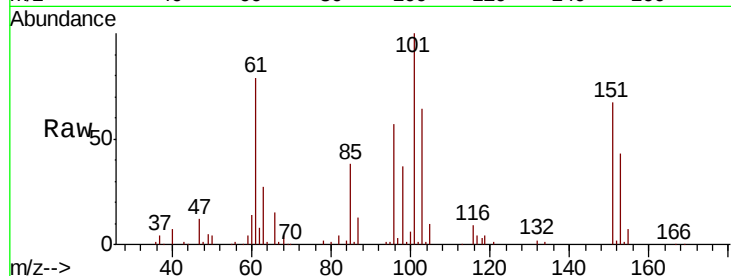
Tot Ion:101 Resp: 424801

Ion Ratio Lower Upper

101 100

85 38.1 31.6 47.4

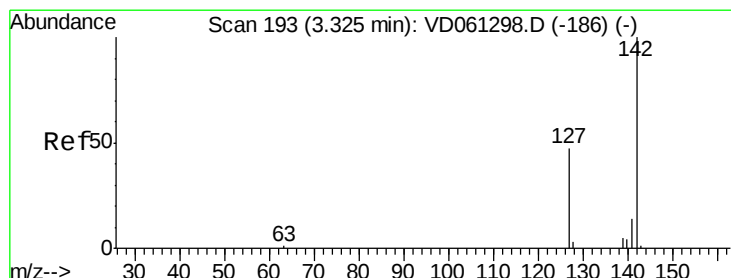
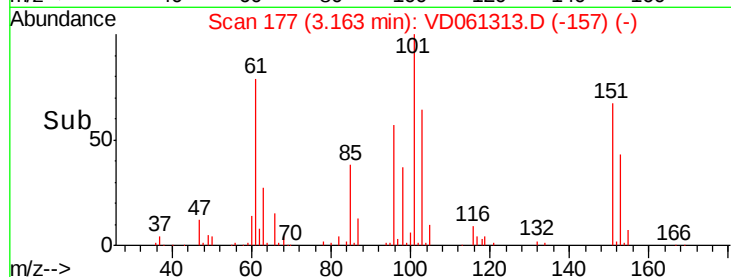
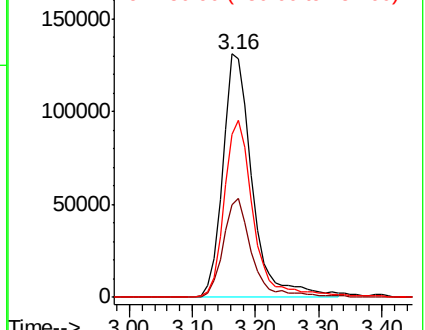
151 66.7 59.3 88.9



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: 57.211 ug/l

RT: 3.33 min Scan# 194

Delta R.T. 0.01 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

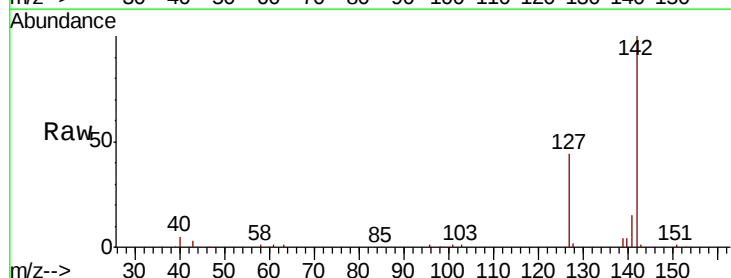
Tgt Ion:142 Resp: 658283

Ion Ratio Lower Upper

142 100

127 43.9 37.8 56.6

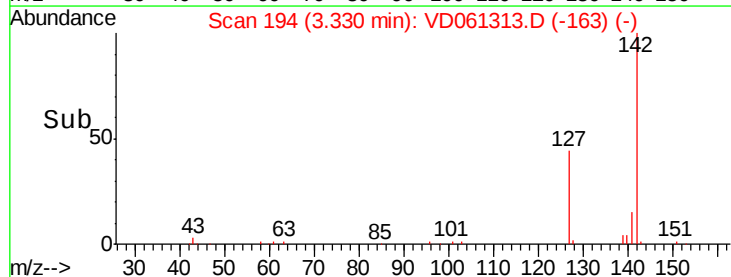
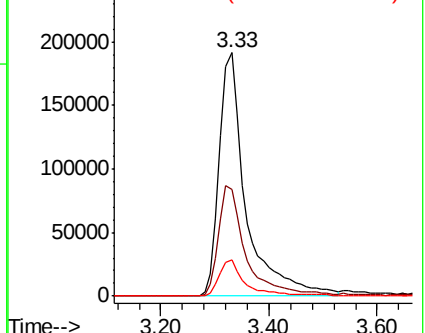
141 14.7 11.6 17.4

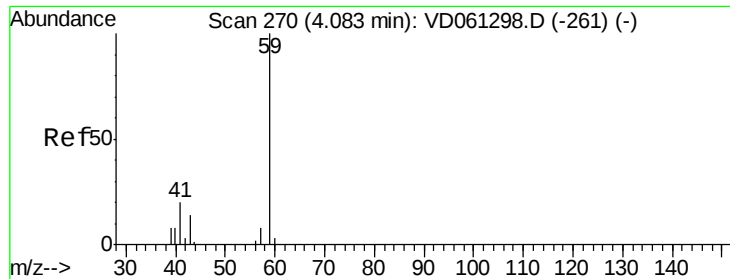


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

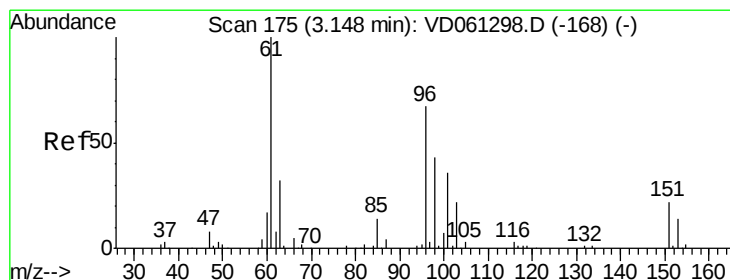
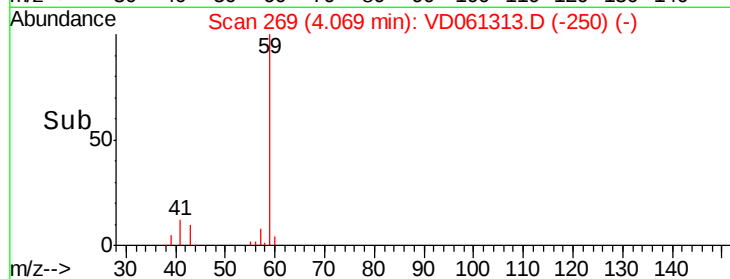
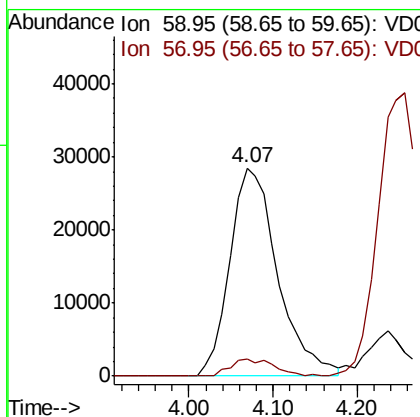
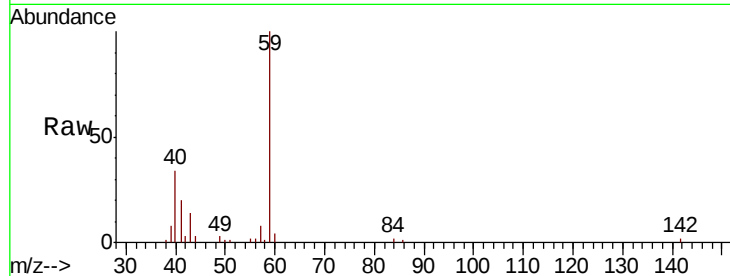




#11
Tert butyl alcohol
Concen: 335.153 ug/l
RT: 4.07 min Scan# 269
Delta R.T. -0.01 min
Lab File: VD061313.D
Acq: 25 Mar 2019 20:53

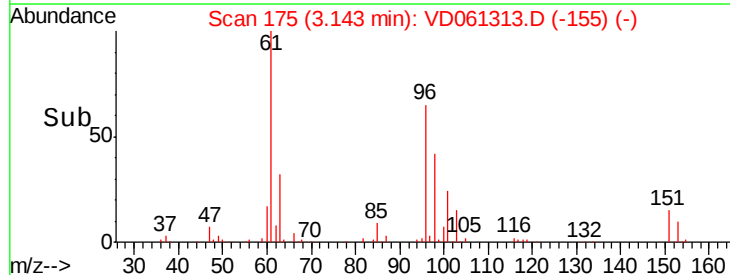
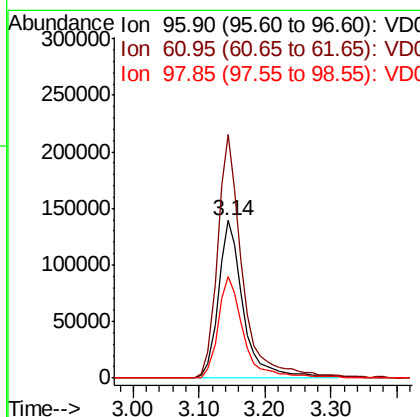
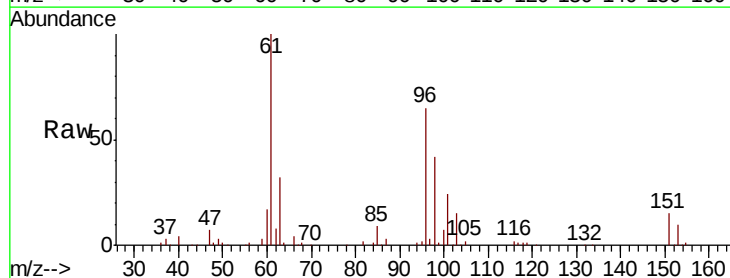
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

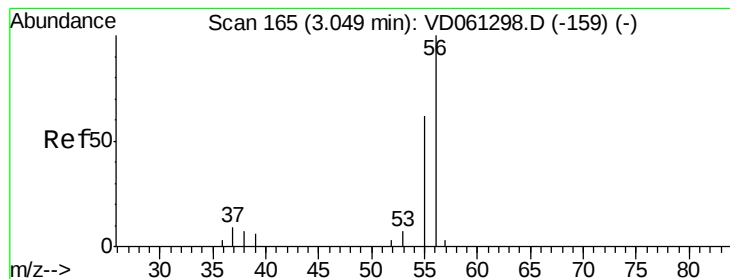
Tot Ion: 59 Resp: 112994
Ion Ratio Lower Upper
59 100
57 8.4 6.6 9.8



#12
1,1-Dichloroethene
Concen: 51.849 ug/l
RT: 3.14 min Scan# 175
Delta R.T. -0.00 min
Lab File: VD061313.D
Acq: 25 Mar 2019 20:53

Tgt Ion: 96 Resp: 367449
Ion Ratio Lower Upper
96 100
61 154.5 120.2 180.2
98 64.3 52.2 78.4





#13

Acrolein

Concen: 246.128 ug/l

RT: 3.05 min Scan# 166

Delta R.T. 0.01 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

Instrument :

MSVOA_D

ClientSampleId :

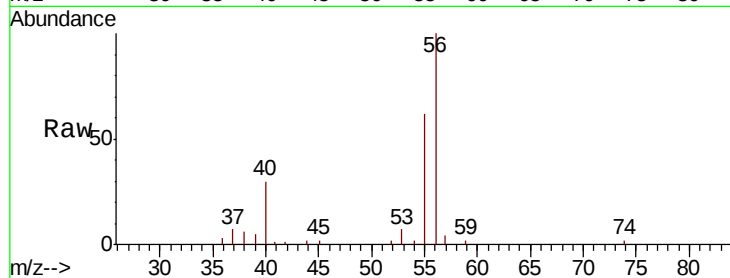
VSTDCCC050EC

Tot Ion: 56 Resp: 90829

Ion Ratio Lower Upper

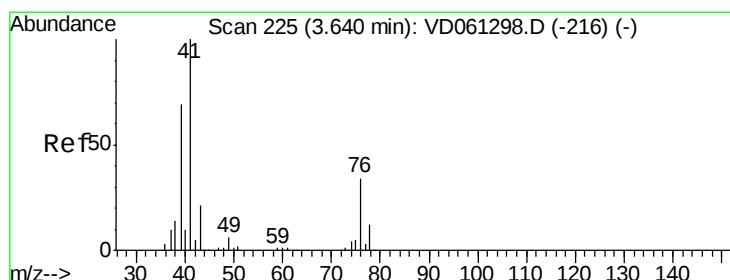
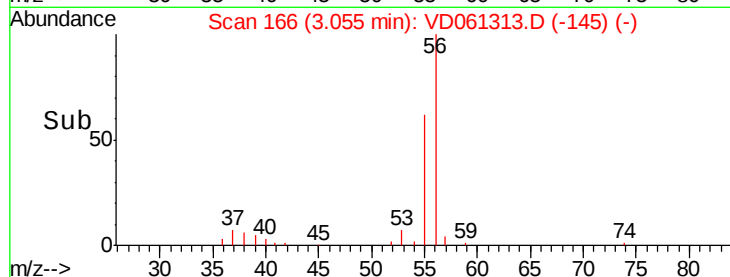
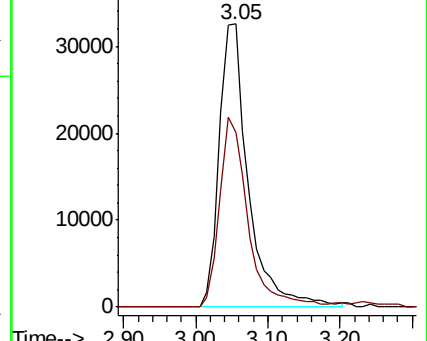
56 100

55 61.8 49.8 74.6



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 53.001 ug/l

RT: 3.64 min Scan# 225

Delta R.T. -0.00 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

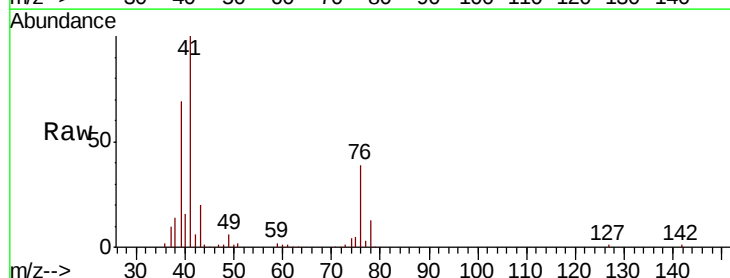
Tgt Ion: 41 Resp: 532833

Ion Ratio Lower Upper

41 100

39 69.4 55.1 82.7

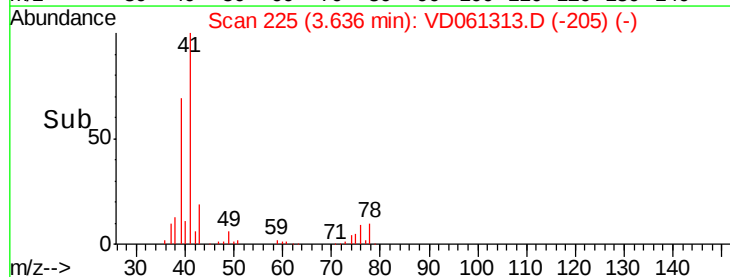
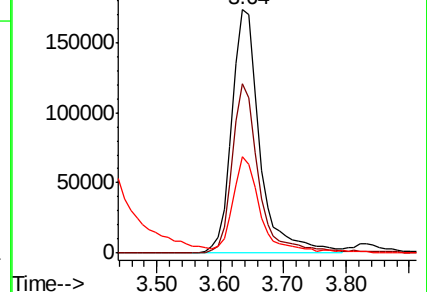
76 39.4 30.2 45.2

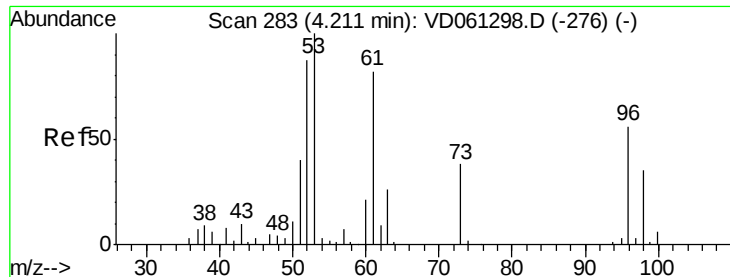


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 319.721 ug/l

RT: 4.21 min Scan# 283

Delta R.T. -0.00 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

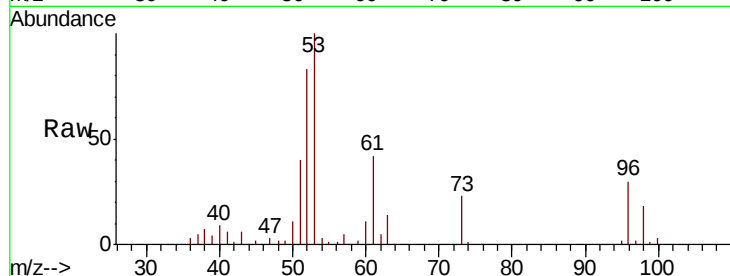
Tot Ion: 53 Resp: 379082

Ion Ratio Lower Upper

53 100

52 83.5 69.4 104.2

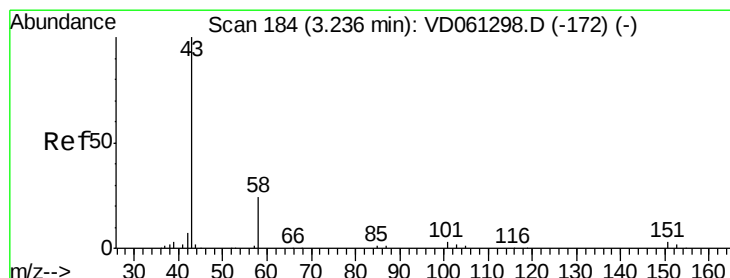
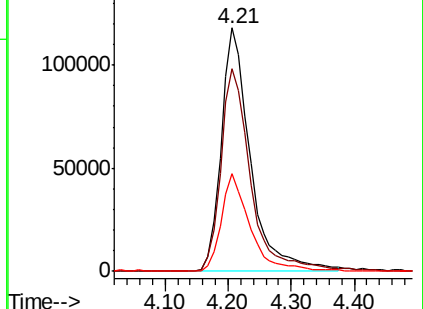
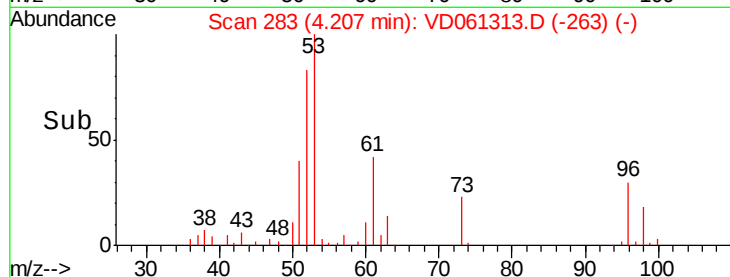
51 40.1 31.7 47.5



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: 277.874 ug/l

RT: 3.23 min Scan# 184

Delta R.T. -0.00 min

Lab File: VD061313.D

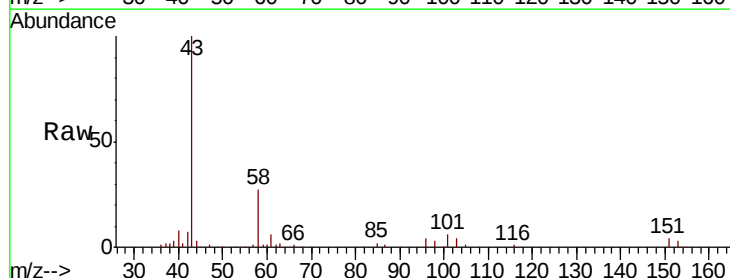
Acq: 25 Mar 2019 20:53

Tgt Ion: 43 Resp: 420950

Ion Ratio Lower Upper

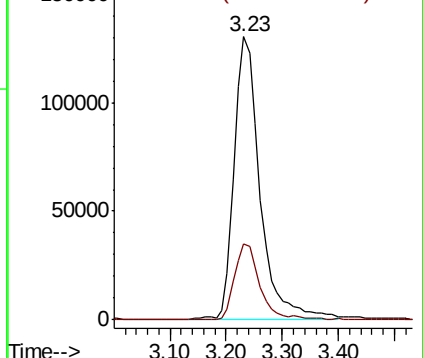
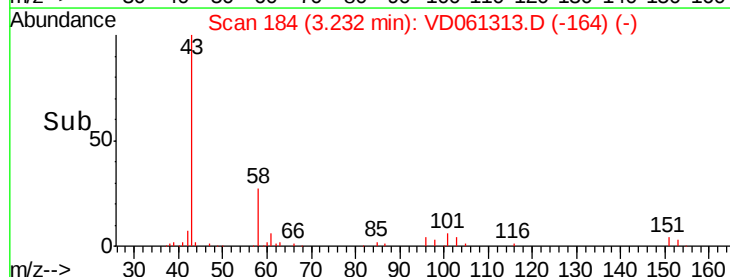
43 100

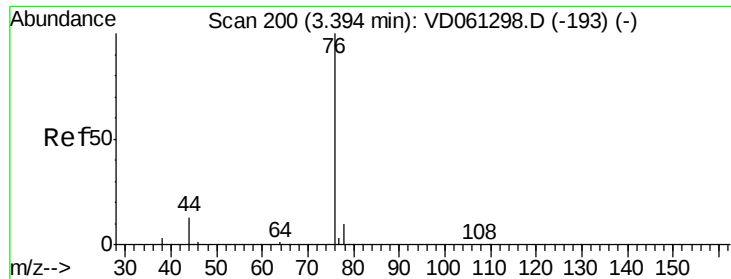
58 27.1 19.4 29.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

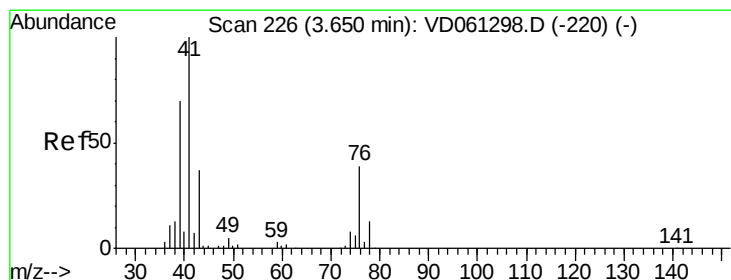
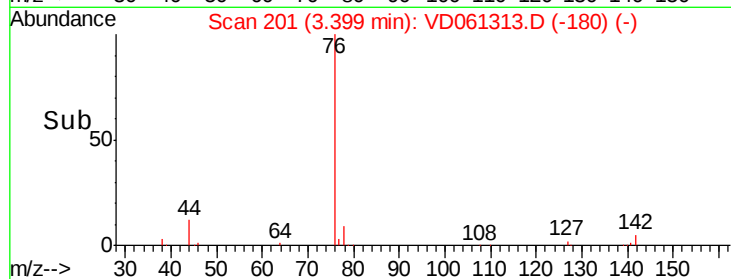
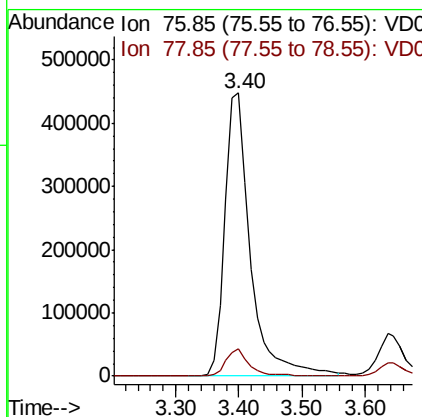
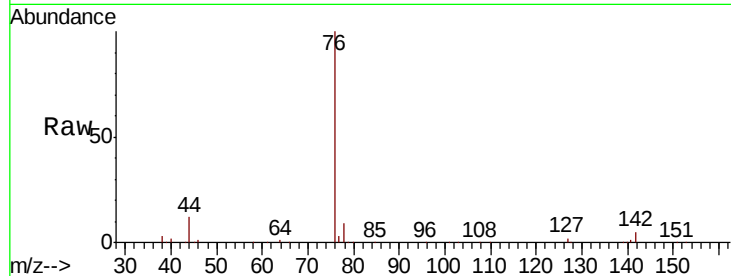




#17
Carbon Disulfide
Concen: 53.316 ug/l
RT: 3.40 min Scan# 201
Delta R.T. 0.01 min
Lab File: VD061313.D
Acq: 25 Mar 2019 20:53

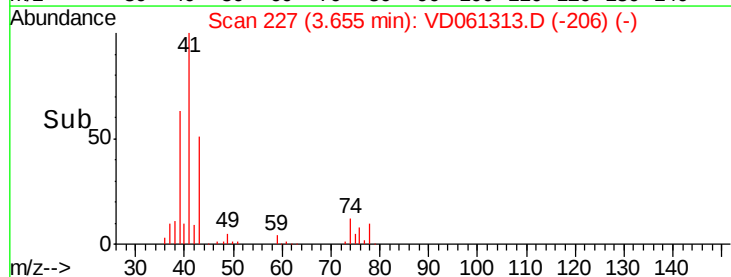
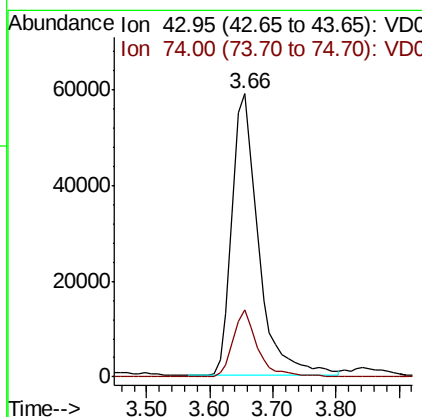
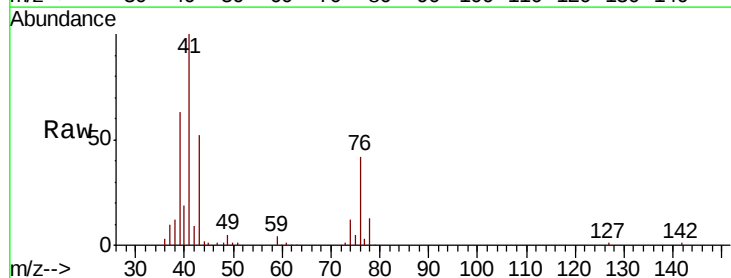
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

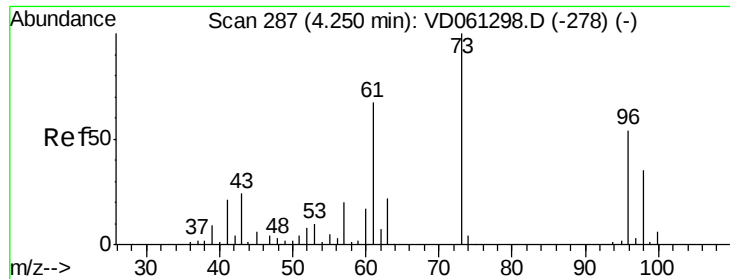
Tot Ion: 76 Resp: 1254871
Ion Ratio Lower Upper
76 100
78 9.5 7.8 11.6



#18
Methyl Acetate
Concen: 59.666 ug/l
RT: 3.66 min Scan# 227
Delta R.T. 0.01 min
Lab File: VD061313.D
Acq: 25 Mar 2019 20:53

Tgt Ion: 43 Resp: 170851
Ion Ratio Lower Upper
43 100
74 23.7 16.6 25.0

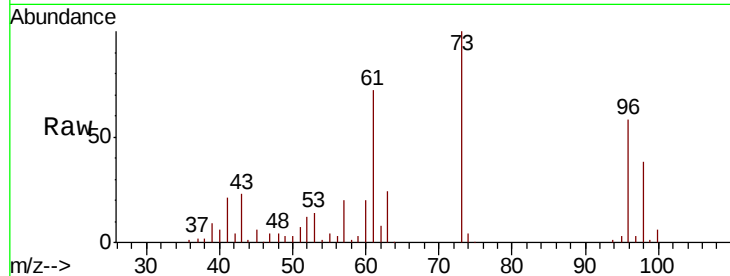




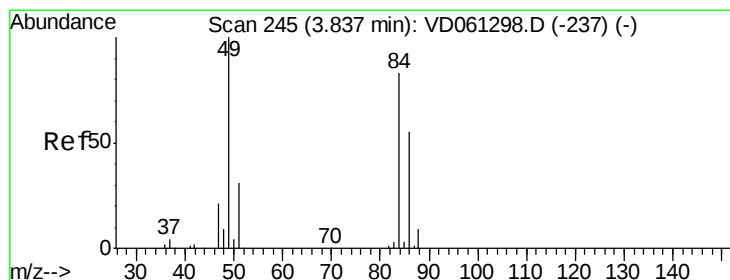
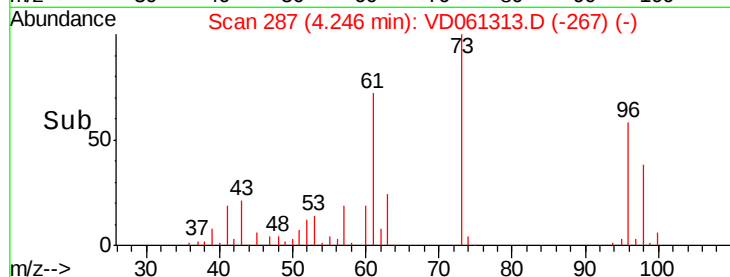
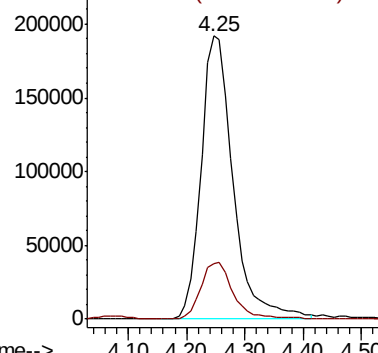
#19
Methyl tert-butyl Ether
Concen: 58.742 ug/l
RT: 4.25 min Scan# 287
Delta R.T. -0.00 min
Lab File: VD061313.D
Acq: 25 Mar 2019 20:53

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion: 73 Resp: 733142
Ion Ratio Lower Upper
73 100
57 19.6 16.3 24.5

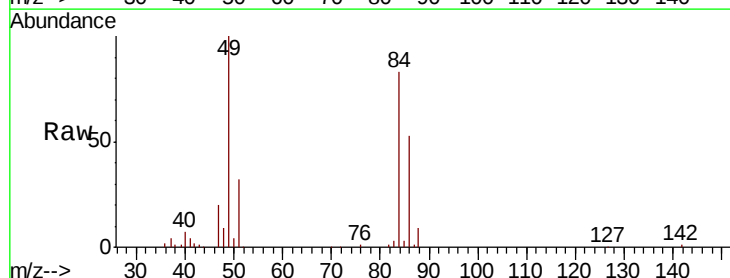


Abundance Ion 73.00 (72.70 to 73.70): VDC
Ion 57.05 (56.75 to 57.75): VDC

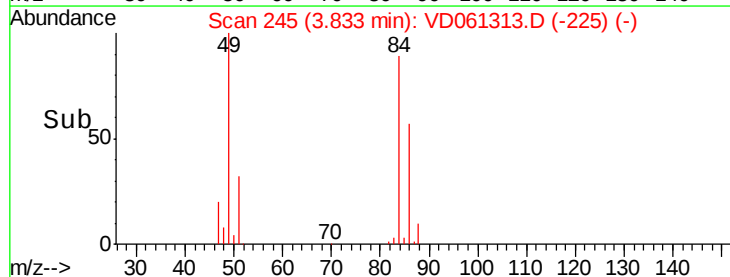
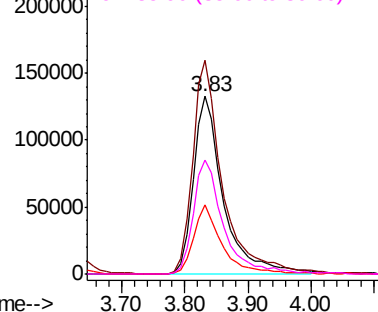


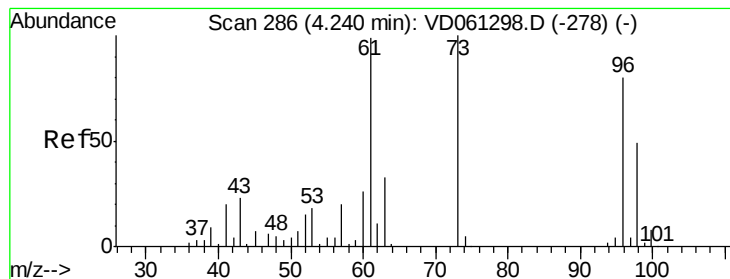
#20
Methylene Chloride
Concen: 50.747 ug/l
RT: 3.83 min Scan# 245
Delta R.T. -0.00 min
Lab File: VD061313.D
Acq: 25 Mar 2019 20:53

Tgt Ion: 84 Resp: 436326
Ion Ratio Lower Upper
84 100
49 120.1 96.8 145.2
51 38.7 29.9 44.9
86 64.1 53.1 79.7



Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC





#21

trans-1,2-Dichloroethene

Concen: 52.116 ug/l

RT: 4.24 min Scan# 286

Delta R.T. -0.00 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

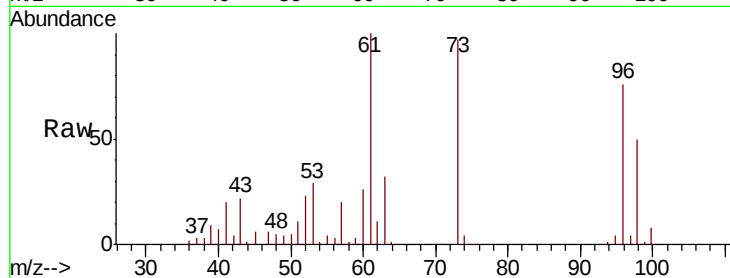
Tot Ion: 96 Resp: 413184

Ion Ratio Lower Upper

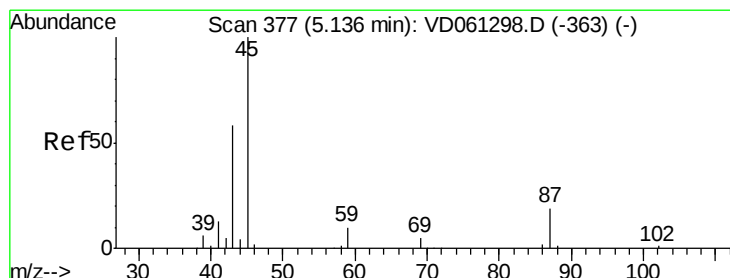
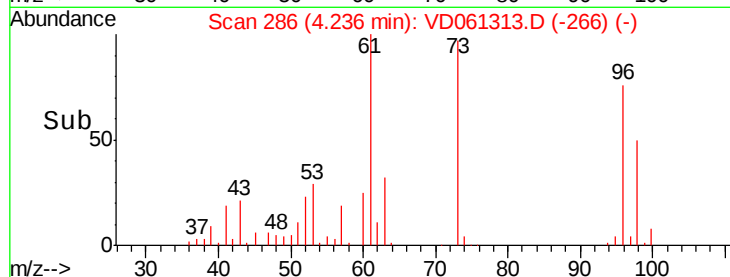
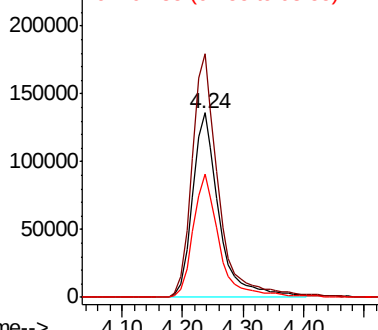
96 100

61 132.0 99.2 148.8

98 66.6 49.2 73.8



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



#22

Diisopropyl ether

Concen: 54.912 ug/l

RT: 5.13 min Scan# 377

Delta R.T. -0.00 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

Tgt Ion: 45 Resp: 1162928

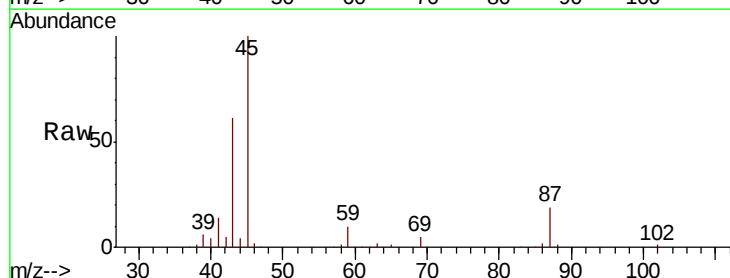
Ion Ratio Lower Upper

45 100

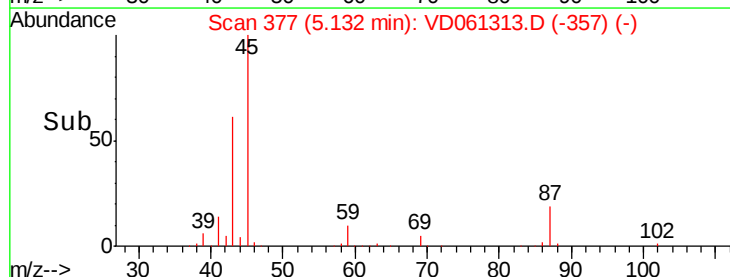
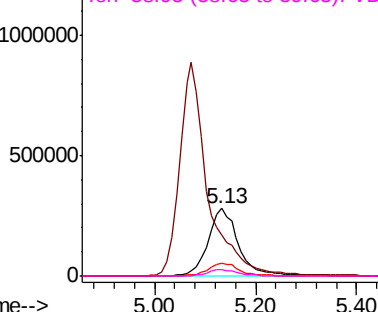
43 60.9 46.7 70.1

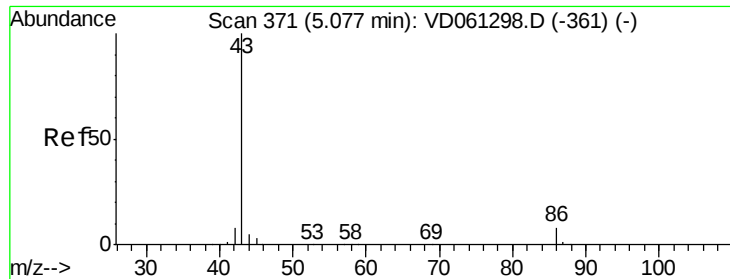
87 19.5 15.5 23.3

59 9.8 8.4 12.6



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: 304.209 ug/l

RT: 5.07 min Scan# 371

Delta R.T. -0.00 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

Instrument :

MSVOA_D

ClientSampleId :

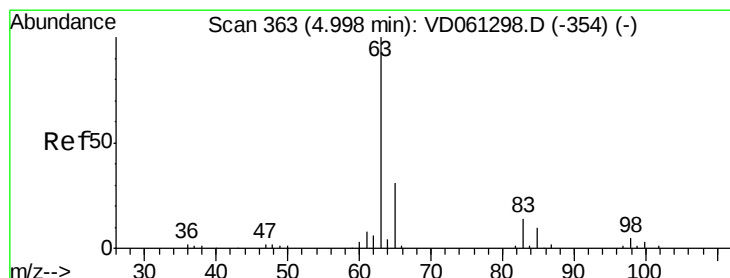
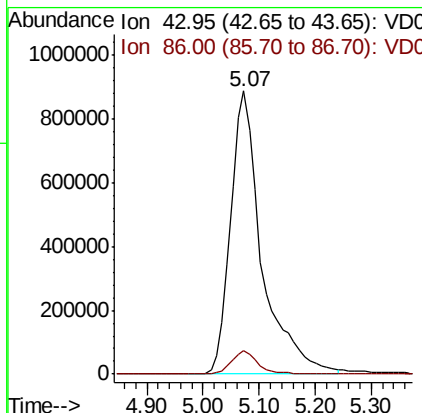
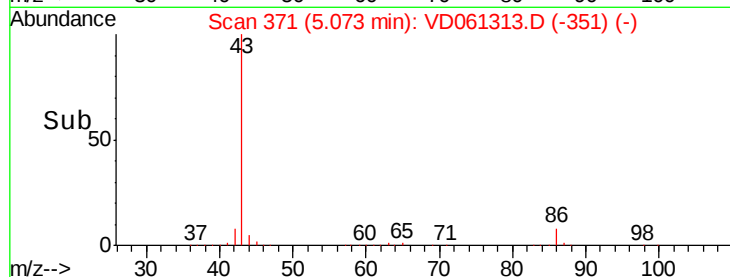
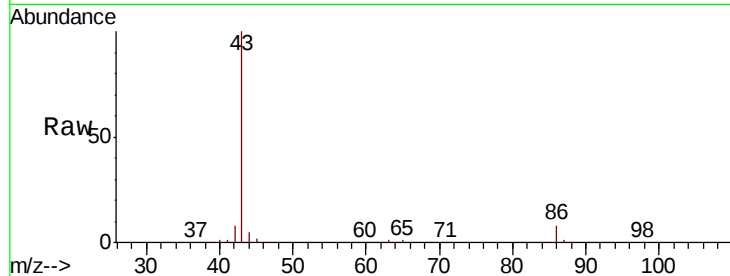
VSTDCCC050EC

Tot Ion: 43 Resp: 3440942

Ion Ratio Lower Upper

43 100

86 8.3 6.3 9.5



#24

1,1-Dichloroethane

Concen: 56.586 ug/l

RT: 5.00 min Scan# 364

Delta R.T. 0.01 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

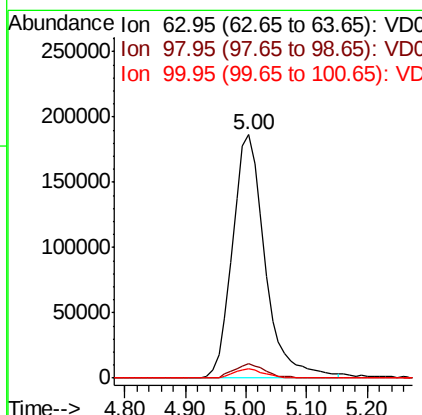
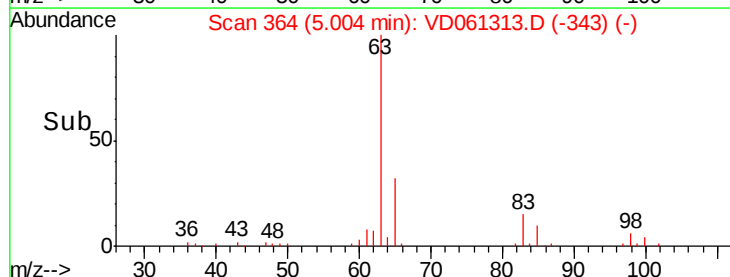
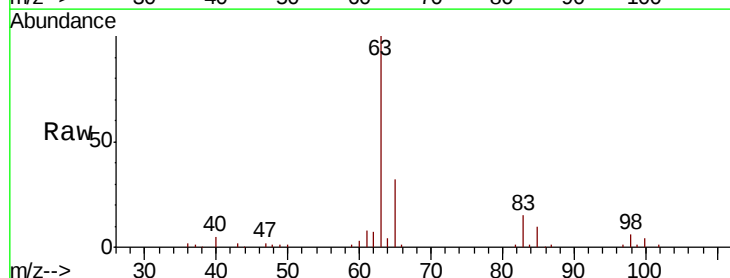
Tgt Ion: 63 Resp: 698349

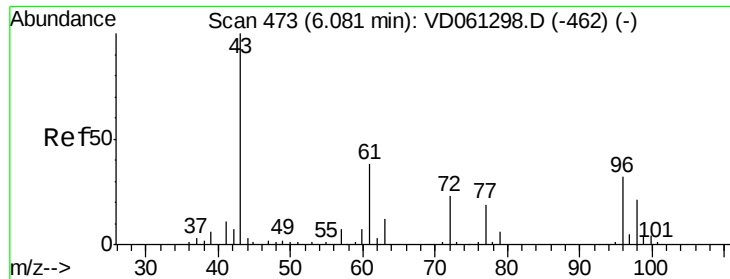
Ion Ratio Lower Upper

63 100

98 6.0 2.8 8.3

100 3.8 1.6 4.8





#25

2-Butanone

Concen: 307.584 ug/l

RT: 6.08 min Scan# 473

Delta R.T. -0.00 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

Instrument :

MSVOA_D

ClientSampleId :

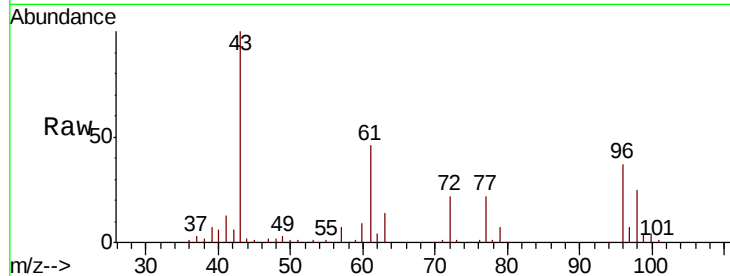
VSTDCCC050EC

Tot Ion: 43 Resp: 538946

Ion Ratio Lower Upper

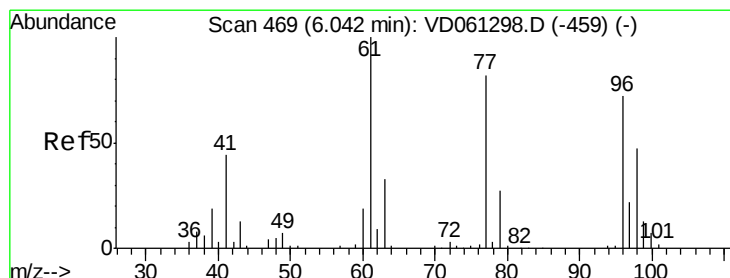
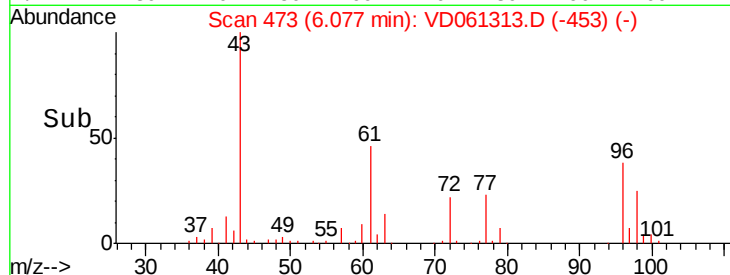
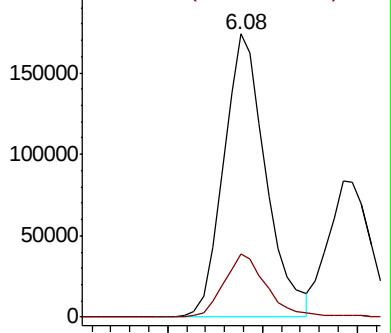
43 100

72 22.3 18.5 27.7



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 47.890 ug/l

RT: 6.04 min Scan# 469

Delta R.T. -0.00 min

Lab File: VD061313.D

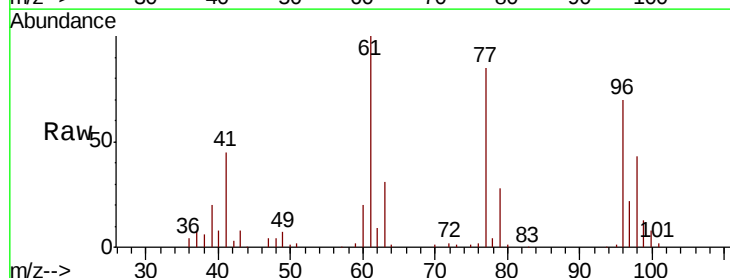
Acq: 25 Mar 2019 20:53

Tgt Ion: 77 Resp: 501861

Ion Ratio Lower Upper

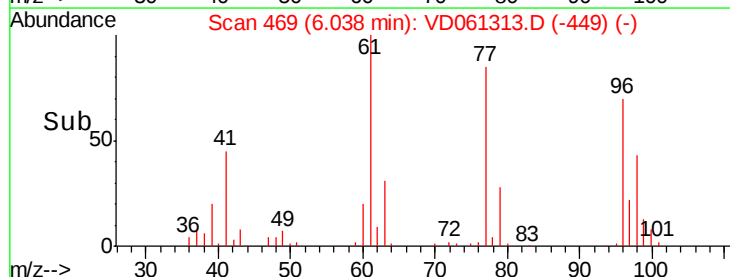
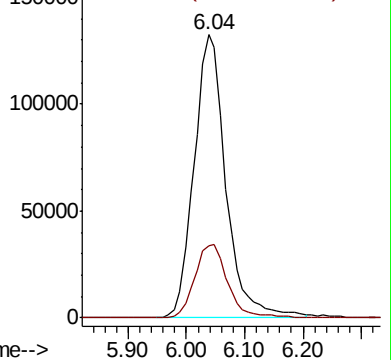
77 100

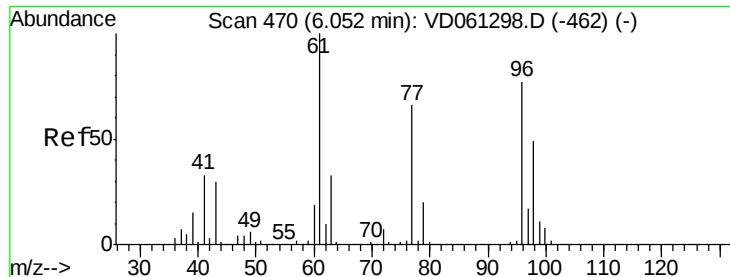
97 25.5 13.5 40.5



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



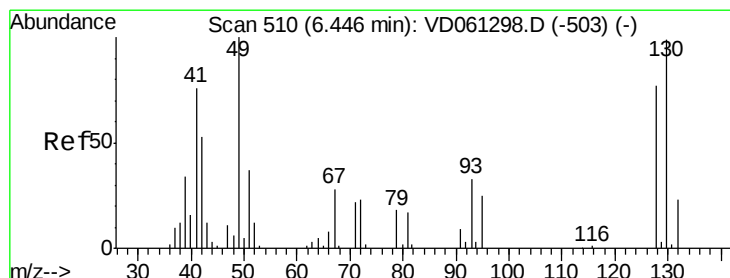
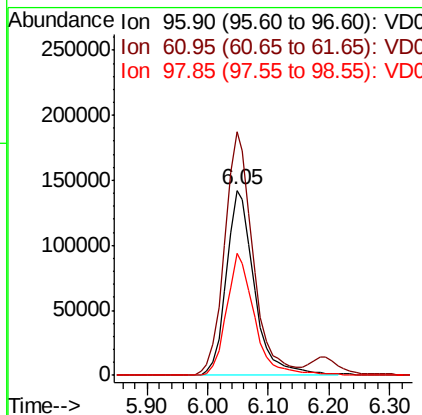
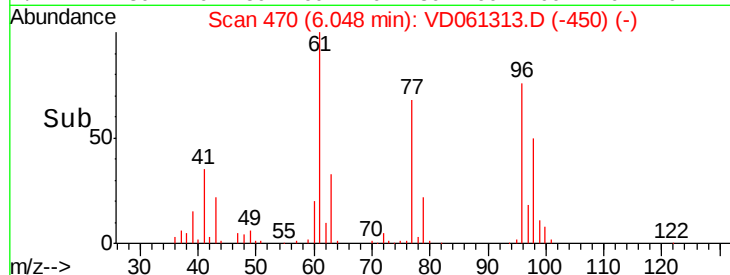
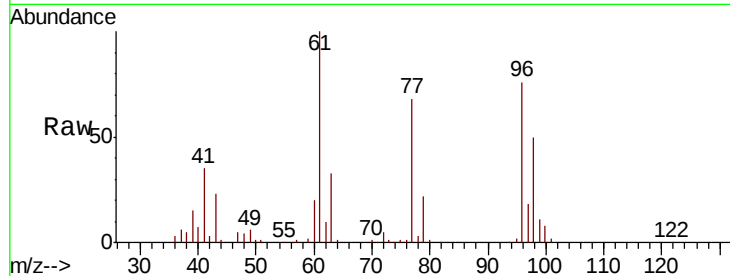


#27

cis-1,2-Dichloroethene
Concen: 53.728 ug/l
RT: 6.05 min Scan# 470
Delta R.T. -0.00 min
Lab File: VD061313.D
Acq: 25 Mar 2019 20:53

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

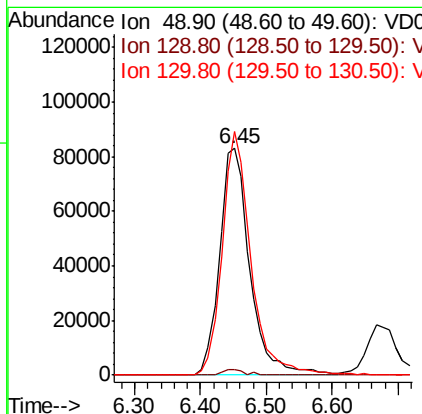
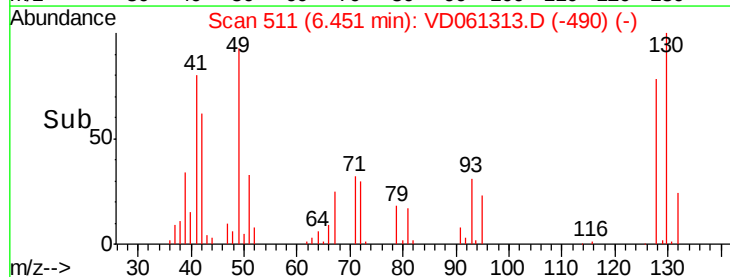
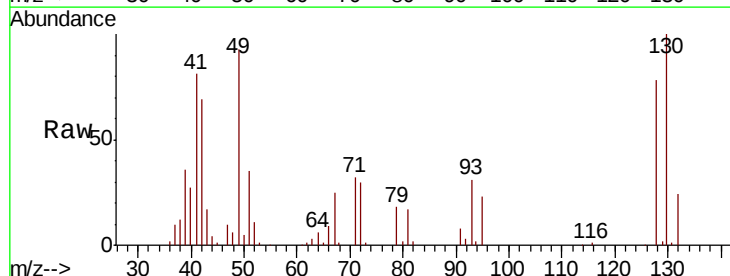
Tot Ion: 96 Resp: 458399
Ion Ratio Lower Upper
96 100
61 131.7 0.0 261.0
98 65.7 0.0 127.6

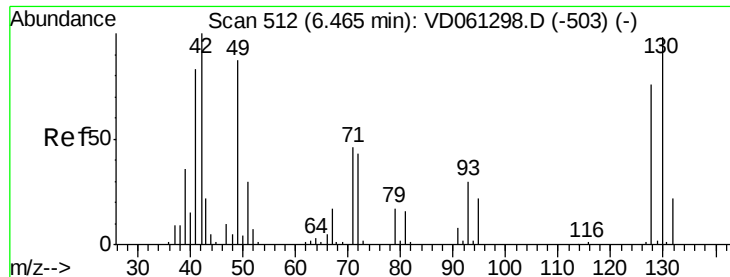


#28

Bromochloromethane
Concen: 51.402 ug/l
RT: 6.45 min Scan# 511
Delta R.T. 0.01 min
Lab File: VD061313.D
Acq: 25 Mar 2019 20:53

Tgt Ion: 49 Resp: 265524
Ion Ratio Lower Upper
49 100
129 2.6 0.0 5.2
130 107.3 79.0 118.6

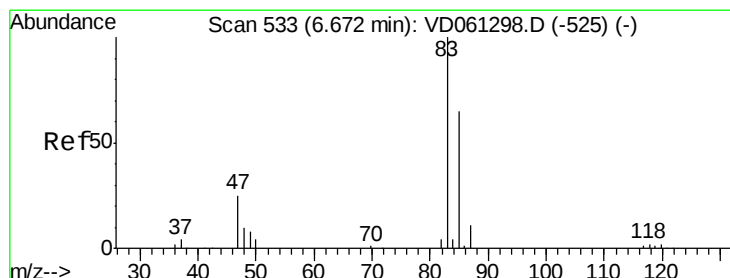
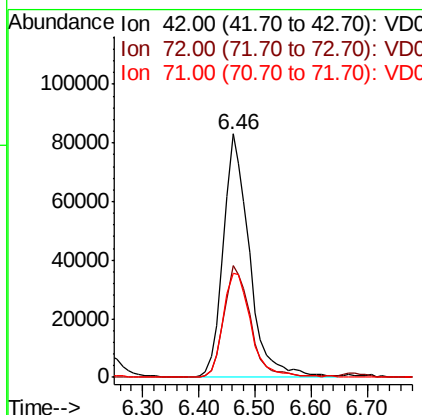
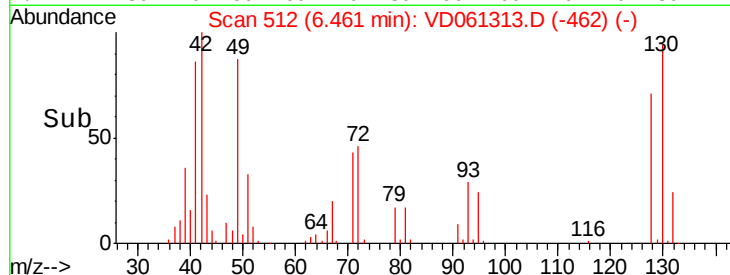
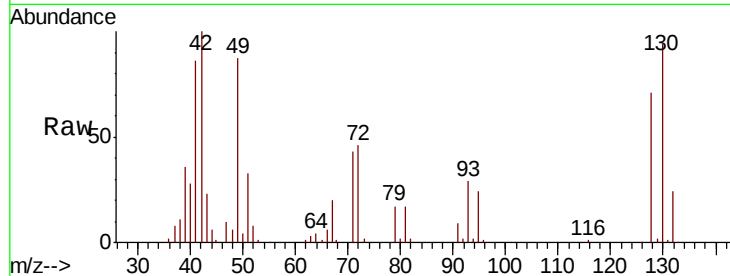




#29
Tetrahydrofuran
Concen: 310.140 ug/l
RT: 6.46 min Scan# 512
Delta R.T. -0.00 min
Lab File: VD061313.D
Acq: 25 Mar 2019 20:53

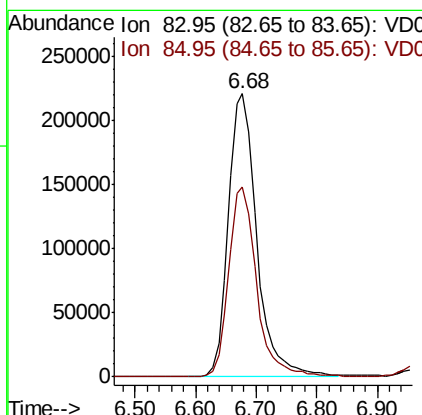
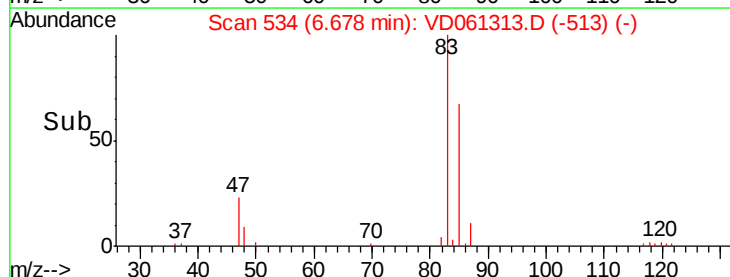
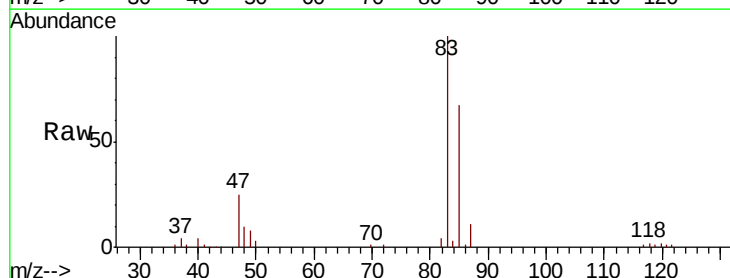
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

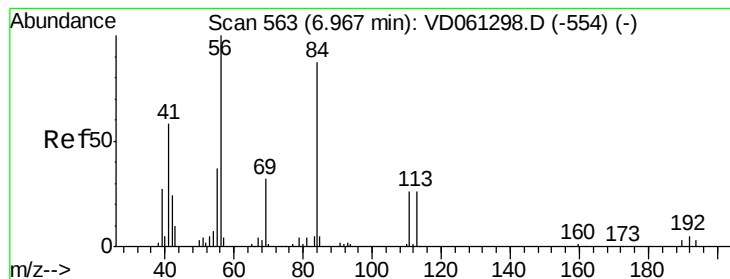
Tot Ion: 42 Resp: 270489
Ion Ratio Lower Upper
42 100
72 46.7 36.6 54.8
71 45.4 36.3 54.5



#30
Chloroform
Concen: 54.843 ug/l
RT: 6.68 min Scan# 534
Delta R.T. 0.01 min
Lab File: VD061313.D
Acq: 25 Mar 2019 20:53

Tgt Ion: 83 Resp: 721259
Ion Ratio Lower Upper
83 100
85 67.2 52.2 78.2





#31

Cyclohexane

Concen: 54.359 ug/l

RT: 6.96 min Scan# 563

Delta R.T. -0.00 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

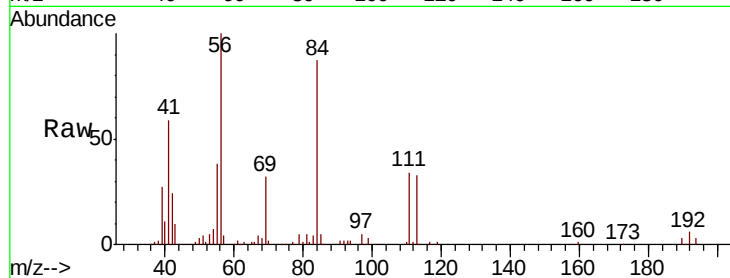
Tot Ion: 56 Resp: 544508

Ion Ratio Lower Upper

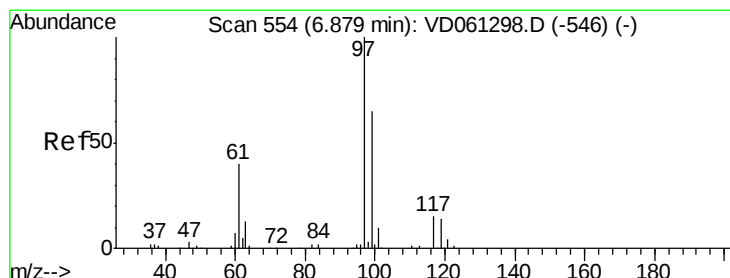
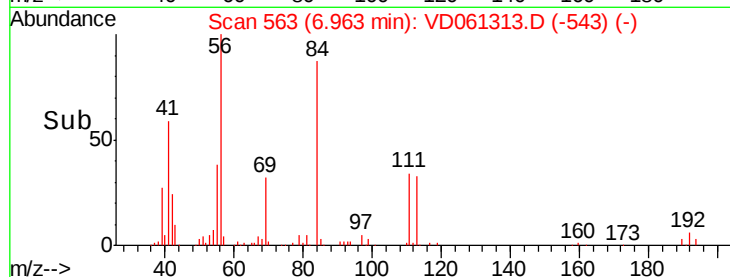
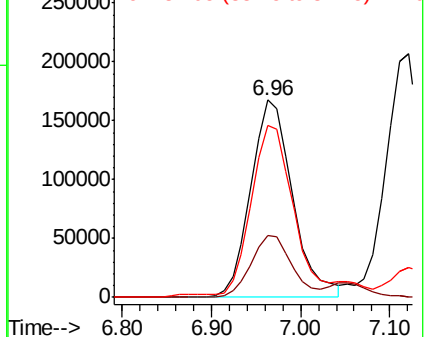
56 100

69 31.6 25.5 38.3

84 87.3 71.4 107.2



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: 53.067 ug/l

RT: 6.88 min Scan# 555

Delta R.T. 0.01 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

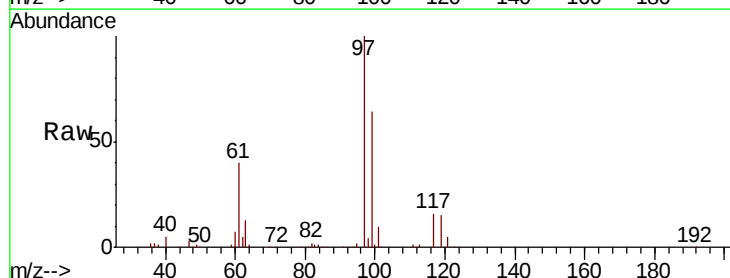
Tgt Ion: 97 Resp: 618099

Ion Ratio Lower Upper

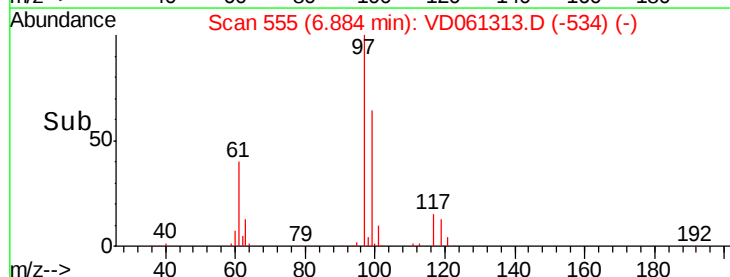
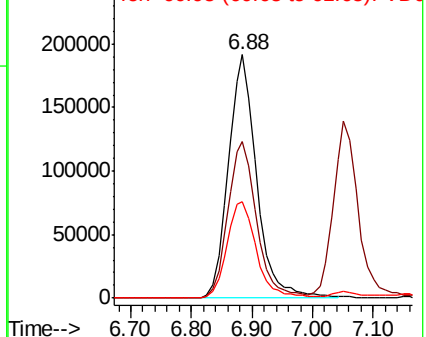
97 100

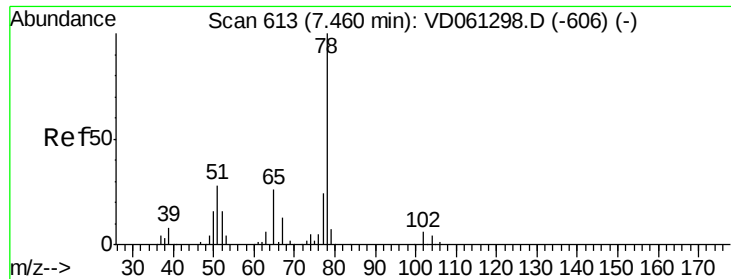
99 64.4 51.8 77.6

61 39.5 31.9 47.9



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: 53.067 ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.01 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

Instrument :

MSVOA_D

ClientSampleId :

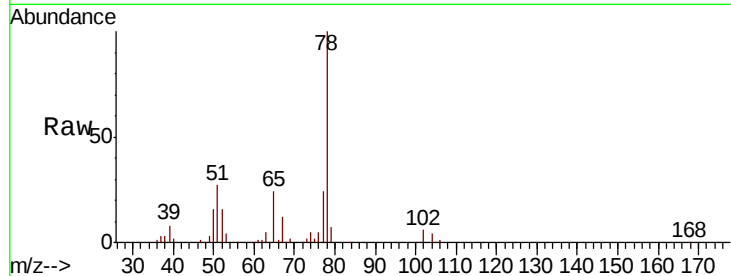
VSTDCCC050EC

Tot Ion: 65 Resp: 300739

Ion Ratio Lower Upper

65 100

67 51.3 0.0 100.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.47

120000

100000

80000

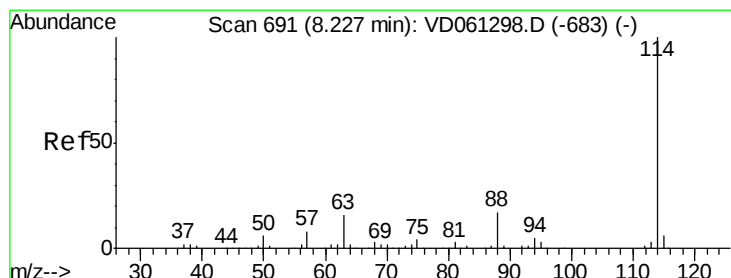
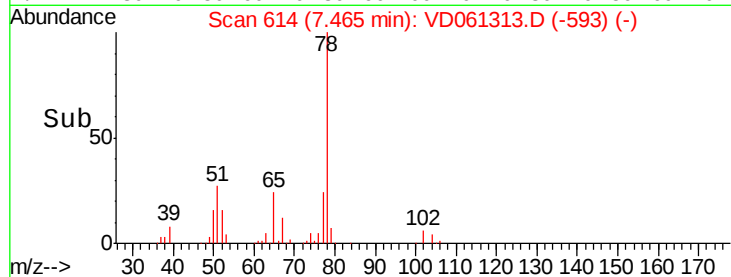
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 691

Delta R.T. -0.00 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

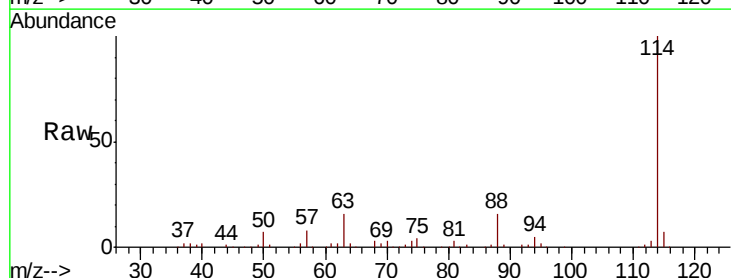
Tgt Ion: 114 Resp: 1245031

Ion Ratio Lower Upper

114 100

63 16.0 0.0 31.4

88 16.1 0.0 33.2



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

600000

500000

400000

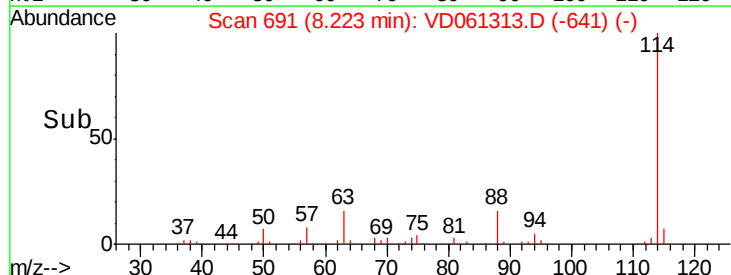
300000

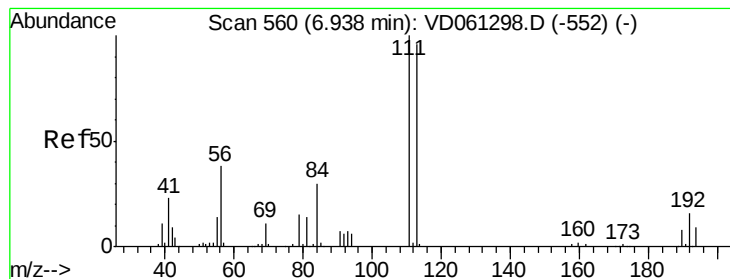
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.93 min Scan# 560

Delta R.T. -0.00 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

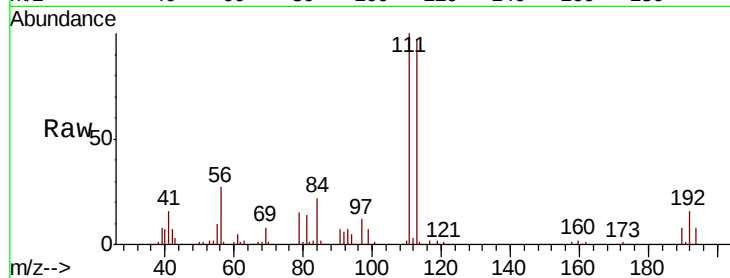
Tot Ion:113 Resp: 477835

Ion Ratio Lower Upper

113 100

111 103.4 83.7 125.5

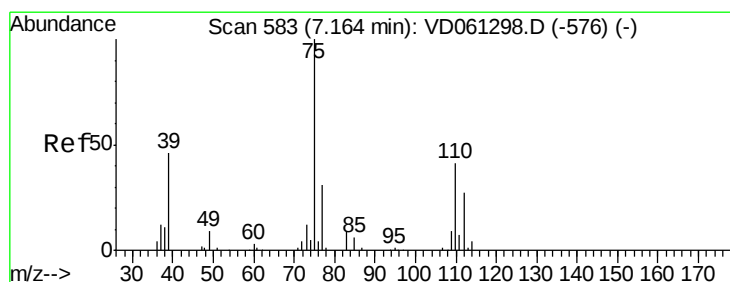
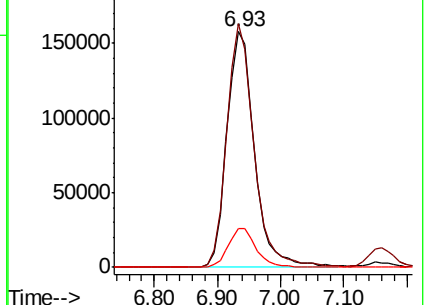
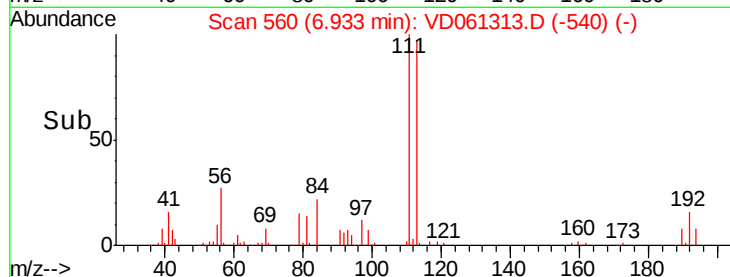
192 16.7 13.4 20.0



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 49.813 ug/l

RT: 7.16 min Scan# 583

Delta R.T. -0.00 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

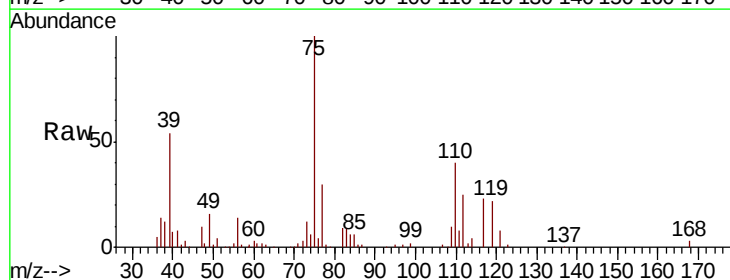
Tgt Ion: 75 Resp: 507414

Ion Ratio Lower Upper

75 100

110 39.7 20.1 60.2

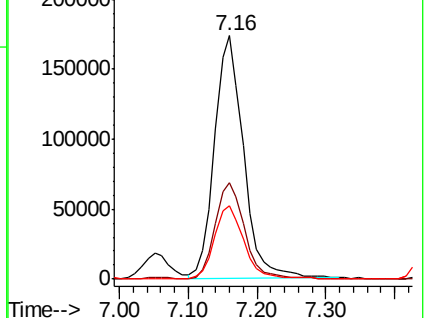
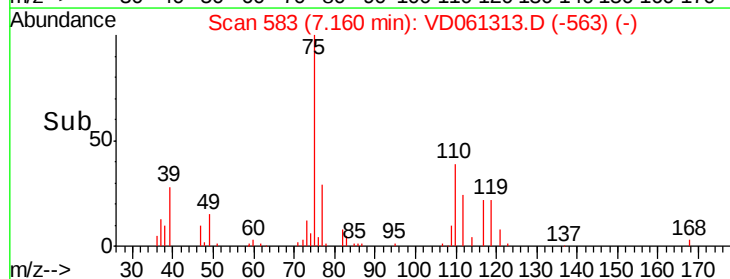
77 30.0 24.3 36.5

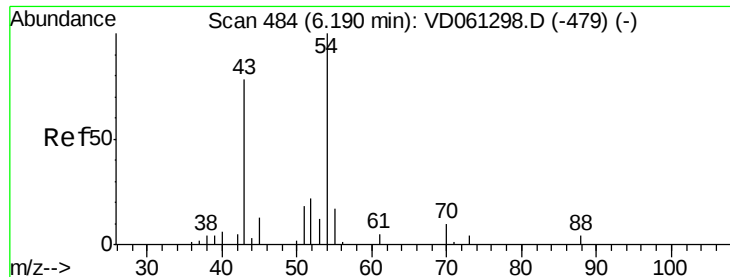


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

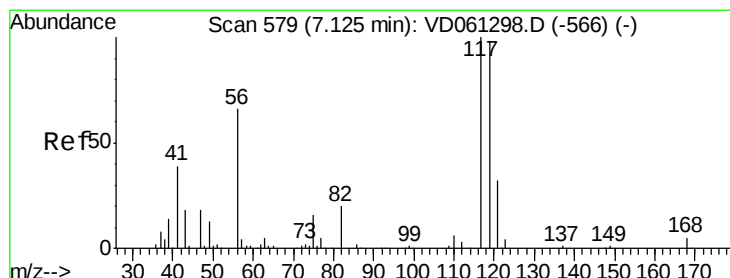
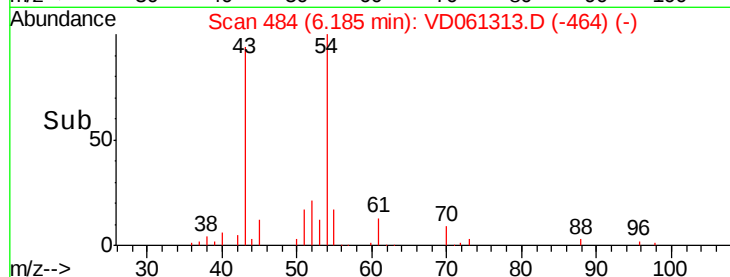
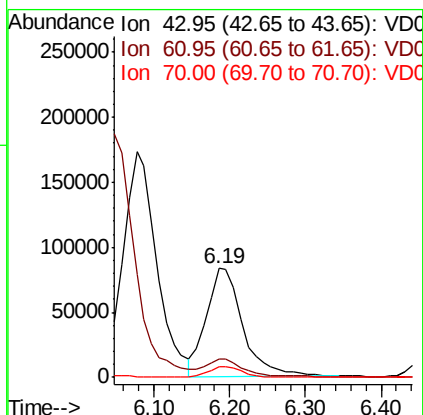
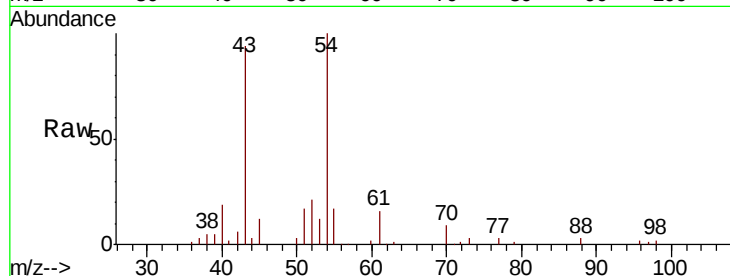




#37
Ethyl Acetate
Concen: 65.049 ug/l
RT: 6.19 min Scan# 484
Delta R.T. -0.00 min
Lab File: VD061313.D
Acq: 25 Mar 2019 20:53

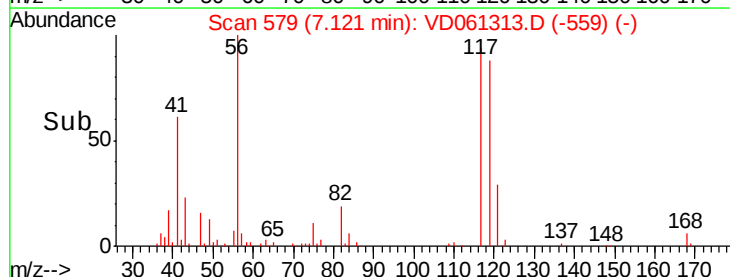
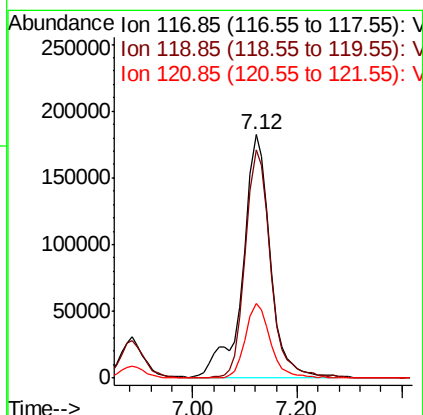
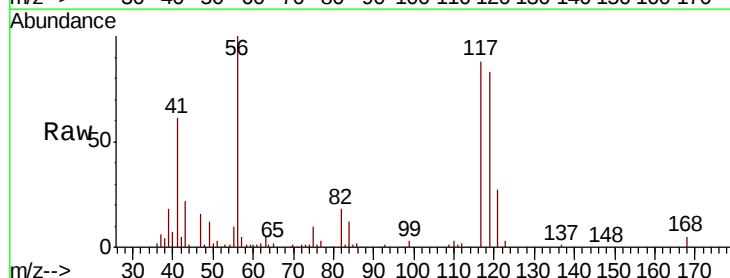
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

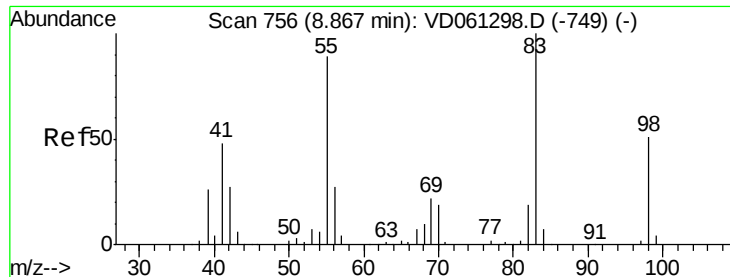
Tot Ion: 43 Resp: 276763
Ion Ratio Lower Upper
43 100
61 16.9 12.6 19.0
70 9.2 8.2 12.4



#38
Carbon Tetrachloride
Concen: 55.160 ug/l
RT: 7.12 min Scan# 579
Delta R.T. -0.00 min
Lab File: VD061313.D
Acq: 25 Mar 2019 20:53

Tgt Ion: 117 Resp: 642183
Ion Ratio Lower Upper
117 100
119 93.8 78.4 117.6
121 30.9 25.1 37.7

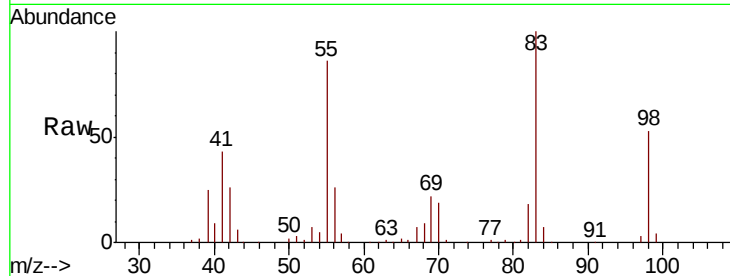




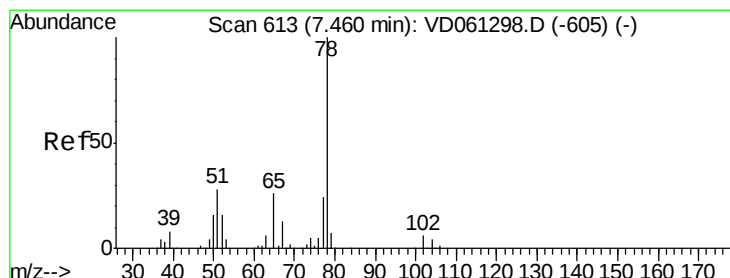
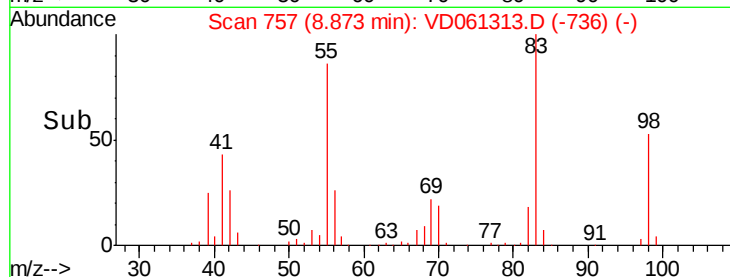
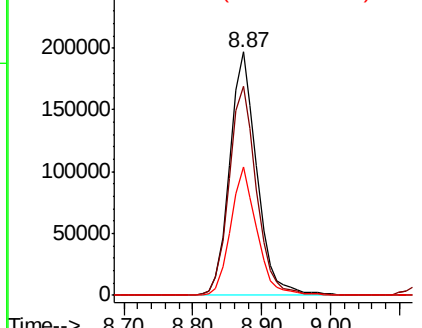
#39
Methvlcvclohexane
Concen: 50.934 ug/l
RT: 8.87 min Scan# 757
Delta R.T. 0.01 min
Lab File: VD061313.D
Acq: 25 Mar 2019 20:53

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion: 83 Resp: 537346
Ion Ratio Lower Upper
83 100
55 85.6 71.3 106.9
98 52.5 40.4 60.6

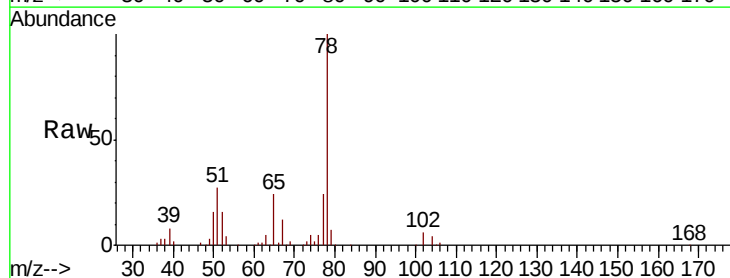


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

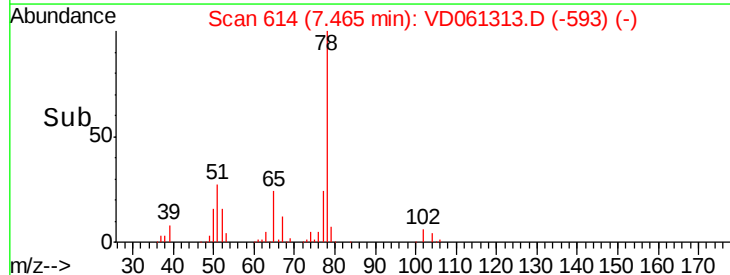
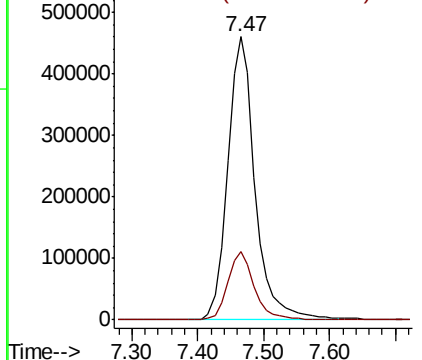


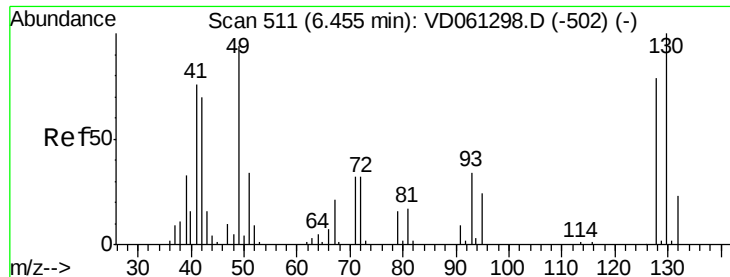
#40
Benzene
Concen: 52.630 ug/l
RT: 7.47 min Scan# 614
Delta R.T. 0.01 min
Lab File: VD061313.D
Acq: 25 Mar 2019 20:53

Tgt Ion: 78 Resp: 1331462
Ion Ratio Lower Upper
78 100
77 24.0 18.8 28.2



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





#41

Methacrylonitrile

Concen: 59.519 ug/l

RT: 6.45 min Scan# 511

Delta R.T. -0.00 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion: 41 Resp: 294267

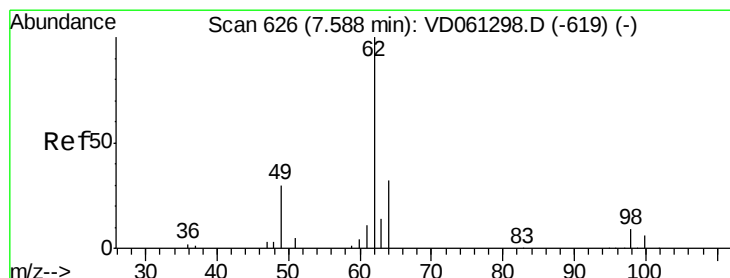
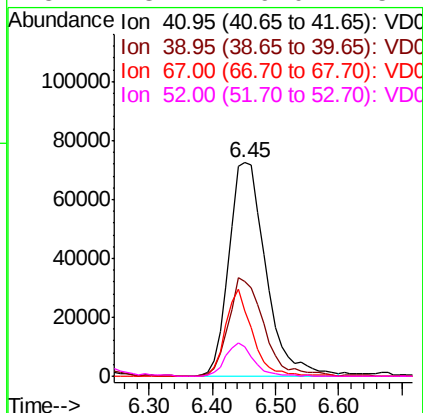
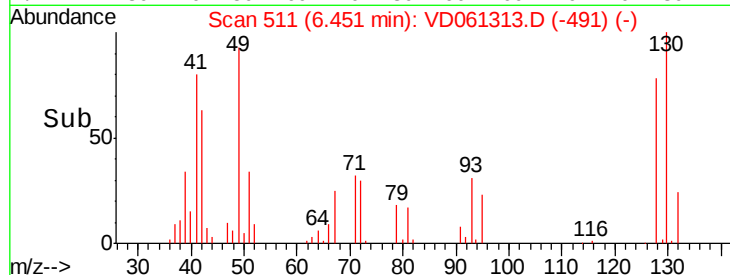
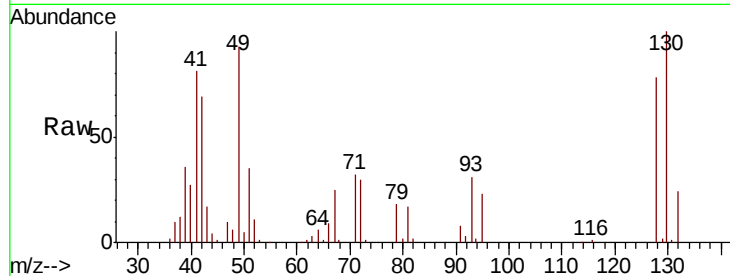
Ion Ratio Lower Upper

41 100

39 44.2 34.2 51.2

67 30.6 21.8 32.6

52 13.7 9.0 13.4#



#42

1,2-Dichloroethane

Concen: 56.426 ug/l

RT: 7.58 min Scan# 626

Delta R.T. -0.00 min

Lab File: VD061313.D

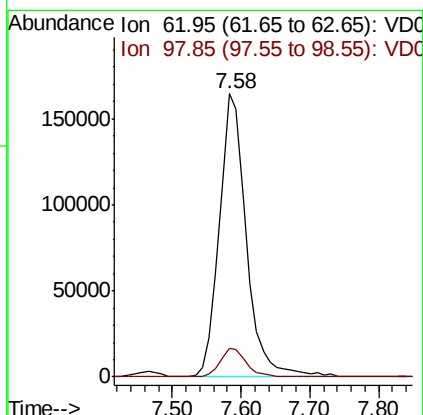
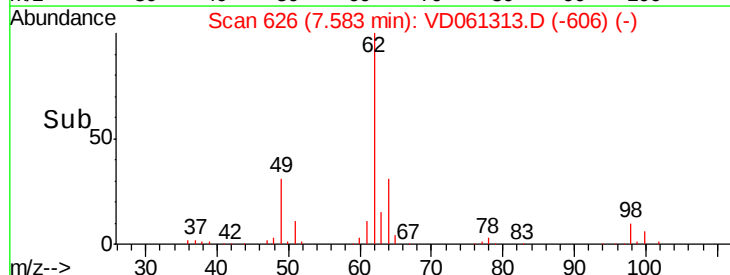
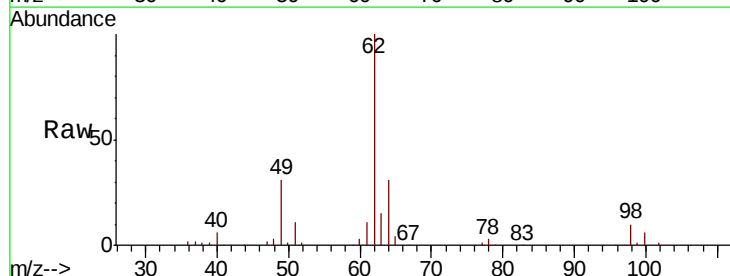
Acq: 25 Mar 2019 20:53

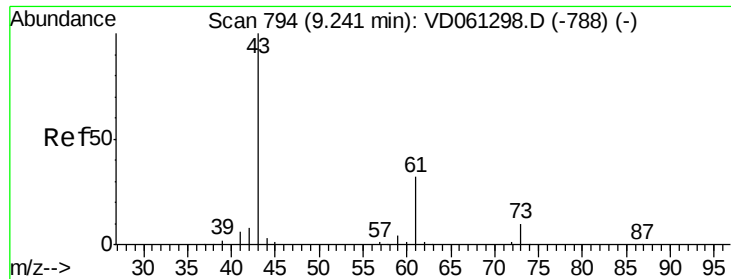
Tgt Ion: 62 Resp: 444887

Ion Ratio Lower Upper

62 100

98 10.0 0.0 18.6



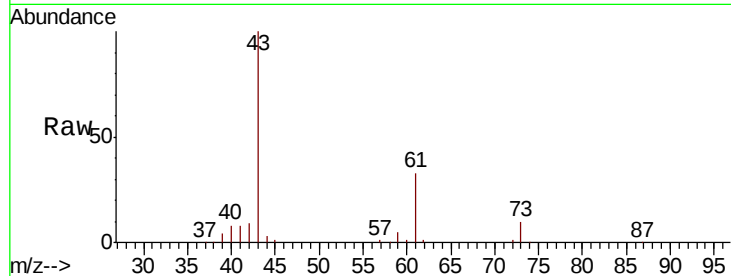


#43

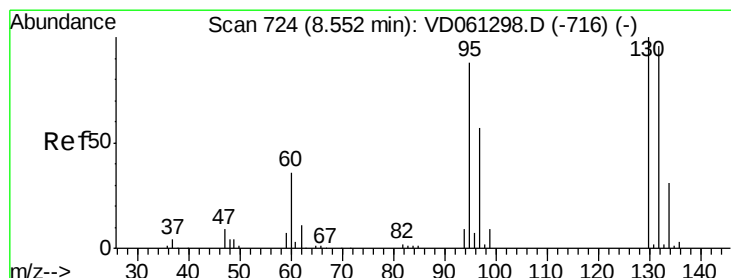
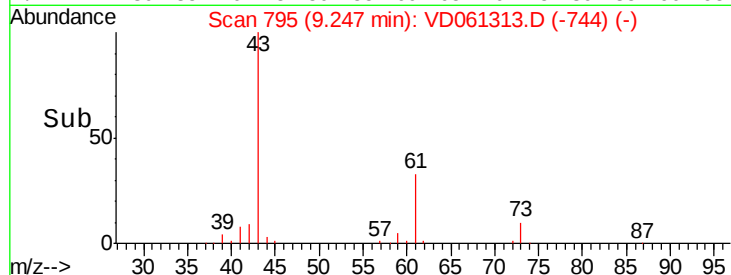
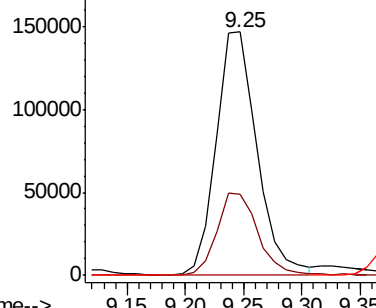
Isopropyl Acetate
 Concen: 58.242 ug/l
 RT: 9.25 min Scan# 795
 Delta R.T. 0.01 min
 Lab File: VD061313.D
 Acq: 25 Mar 2019 20:53

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 43 Resp: 357298
 Ion Ratio Lower Upper
 43 100
 61 33.4 25.8 38.8
 87 0.3 0.3 0.5#



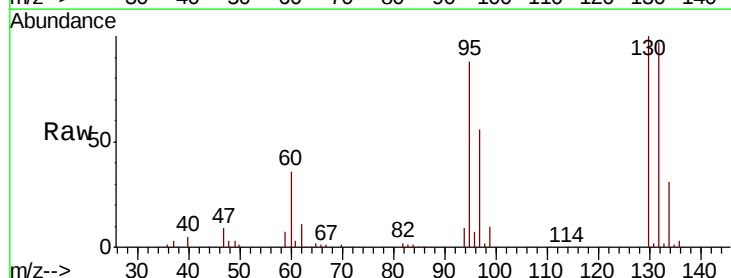
Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



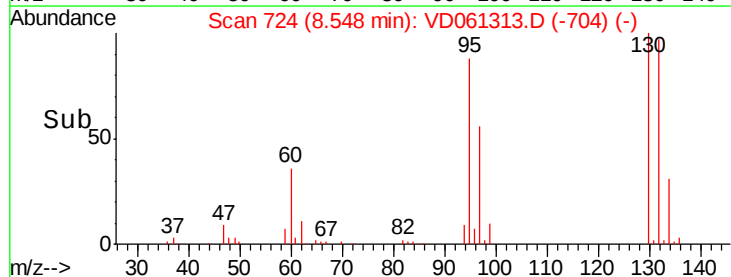
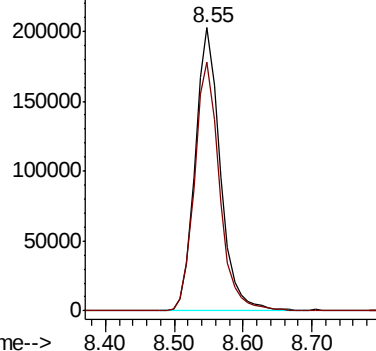
#44

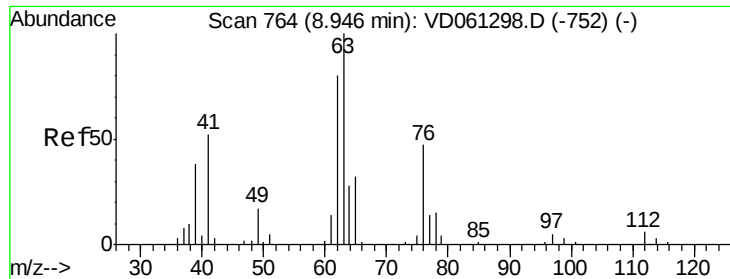
Trichloroethene
 Concen: 55.858 ug/l
 RT: 8.55 min Scan# 724
 Delta R.T. -0.00 min
 Lab File: VD061313.D
 Acq: 25 Mar 2019 20:53

Tgt Ion: 130 Resp: 511065
 Ion Ratio Lower Upper
 130 100
 95 87.9 0.0 175.0



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





#45

1,2-Dichloropropane

Concen: 57.545 ug/l

RT: 8.94 min Scan# 764

Delta R.T. -0.00 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

Instrument :

MSVOA_D

ClientSampleId :

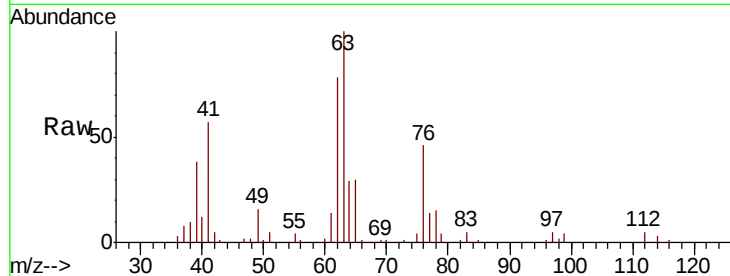
VSTDCCC050EC

Tot Ion: 63 Resp: 359305

Ion Ratio Lower Upper

63 100

65 30.2 25.2 37.8



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

8.94

150000

100000

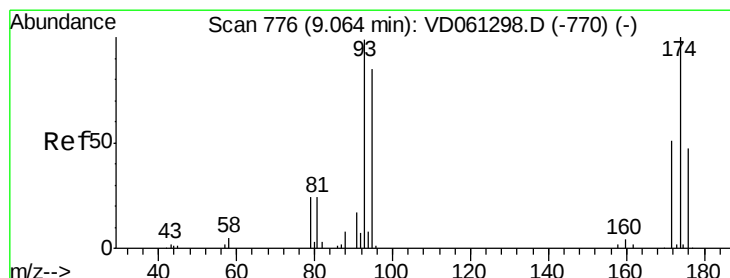
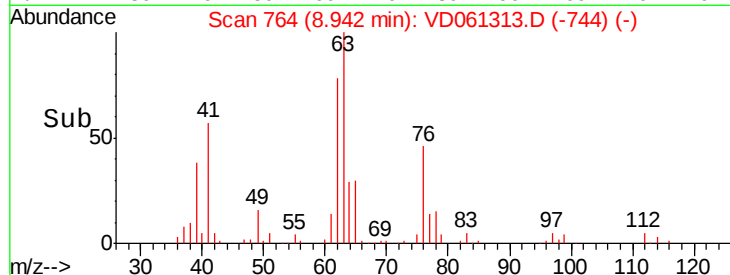
50000

0

Time-->

8.80

9.00



#46

Dibromomethane

Concen: 58.204 ug/l

RT: 9.07 min Scan# 777

Delta R.T. 0.01 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

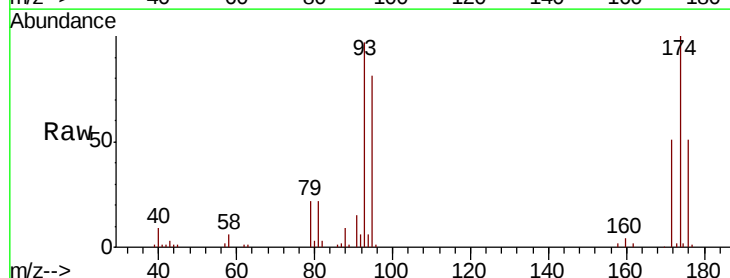
Tgt Ion: 93 Resp: 249107

Ion Ratio Lower Upper

93 100

95 83.5 68.1 102.1

174 103.1 80.4 120.6



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

9.07

100000

50000

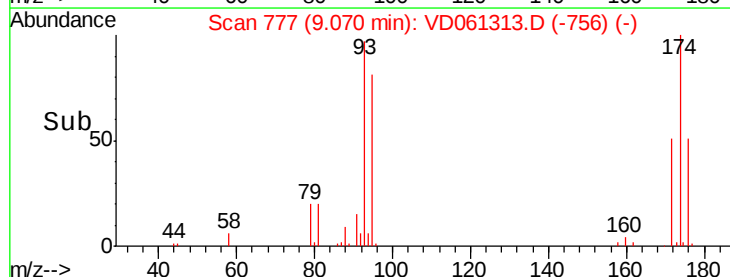
0

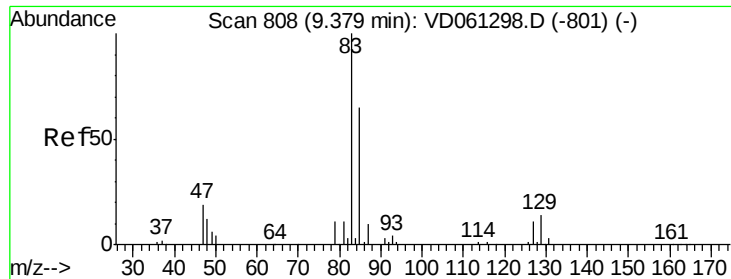
Time-->

9.00

9.10

9.20





#47

Bromodichloromethane

Concen: 57.424 ug/l

RT: 9.38 min Scan# 809

Delta R.T. 0.01 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

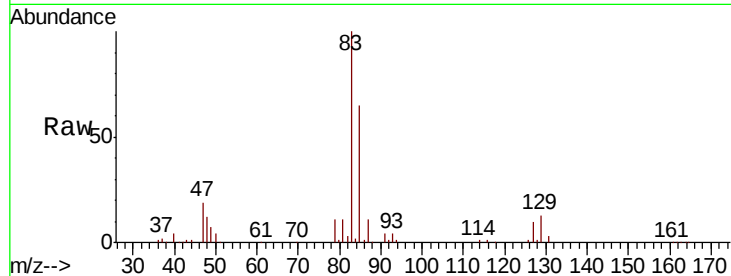
Tot Ion: 83 Resp: 576054

Ion Ratio Lower Upper

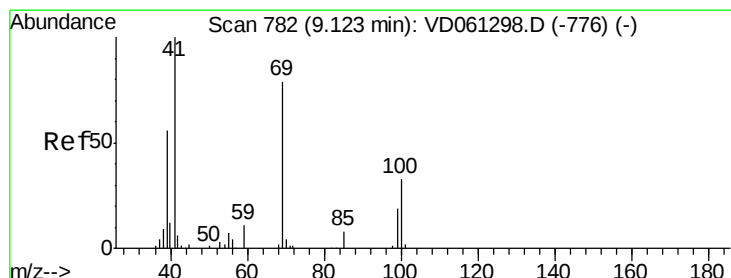
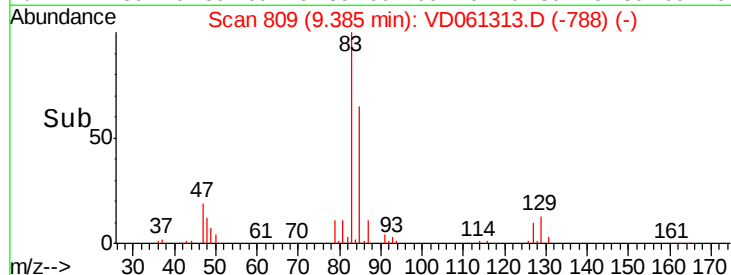
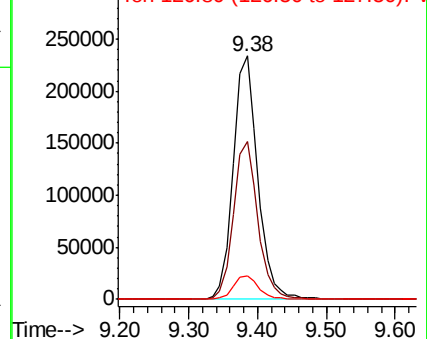
83 100

85 64.7 51.7 77.5

127 9.6 8.8 13.2



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: 62.277 ug/l

RT: 9.13 min Scan# 783

Delta R.T. 0.01 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

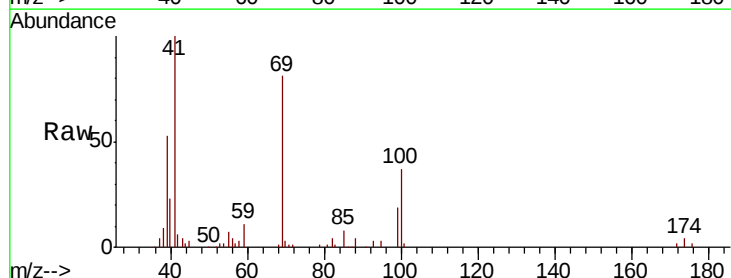
Tgt Ion: 41 Resp: 203915

Ion Ratio Lower Upper

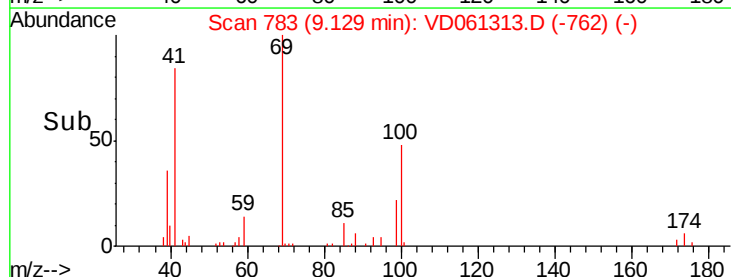
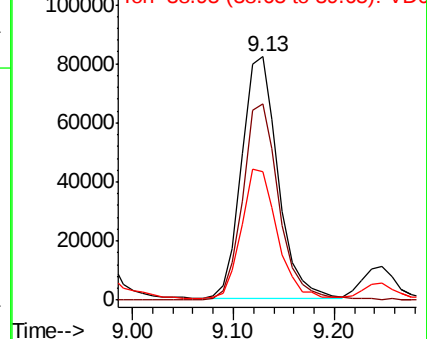
41 100

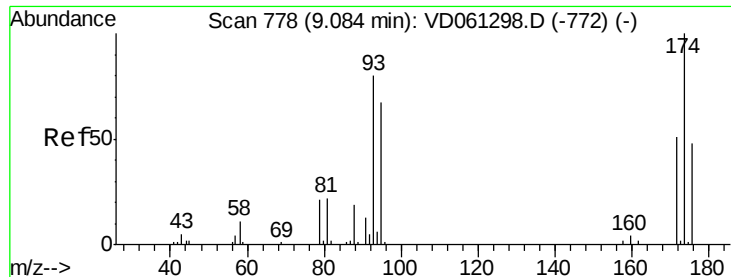
69 80.5 62.4 93.6

39 52.7 44.9 67.3



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

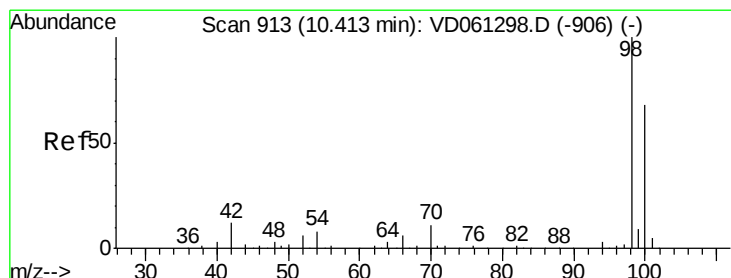
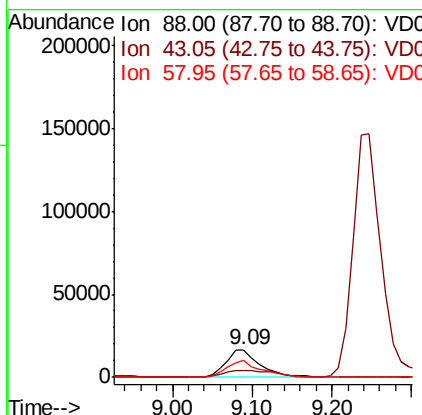
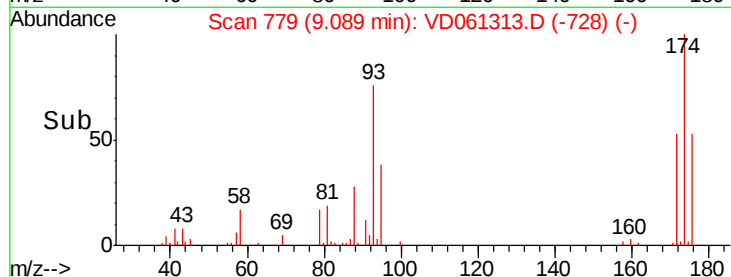
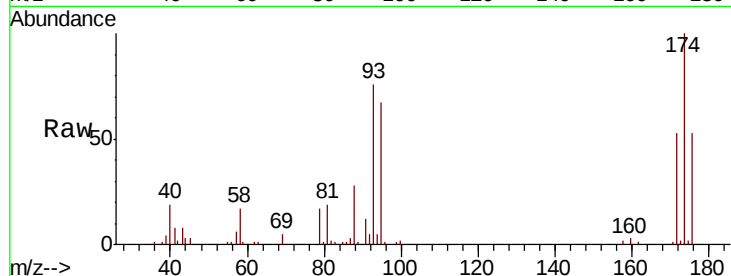




#49
1,4-Dioxane
Concen: 1388.446 ug/l
RT: 9.09 min Scan# 779
Delta R.T. 0.01 min
Lab File: VD061313.D
Acq: 25 Mar 2019 20:53

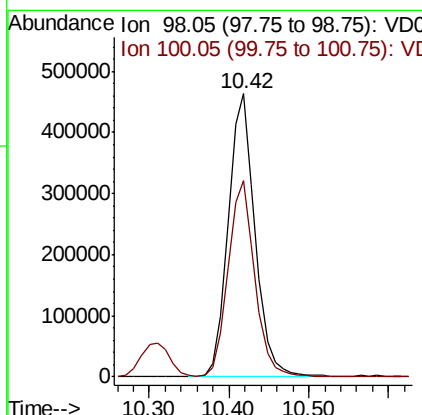
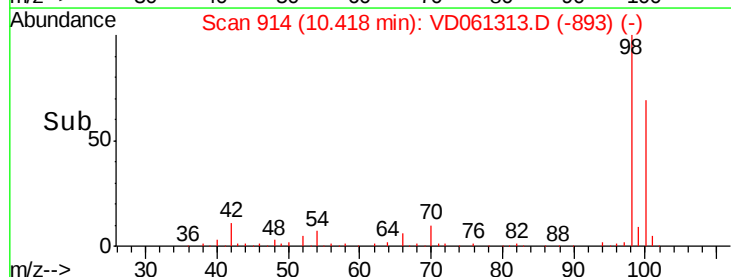
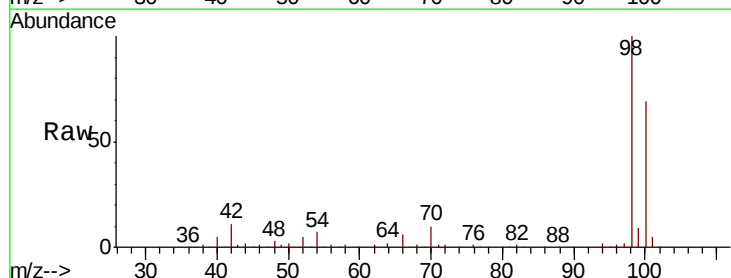
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

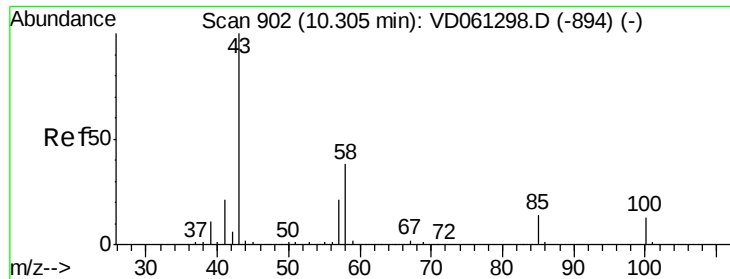
Tot Ion: 88 Resp: 49881
Ion Ratio Lower Upper
88 100
43 26.8 20.7 31.1
58 61.5 44.9 67.3



#50
Toluene-d8
Concen: 1388.446 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.01 min
Lab File: VD061313.D
Acq: 25 Mar 2019 20:53

Tgt Ion: 98 Resp: 1090102
Ion Ratio Lower Upper
98 100
100 69.3 55.4 83.0





#51

4-Methyl-2-Pentanone

Concen: 301.331 ug/l

RT: 10.30 min Scan# 902

Delta R.T. -0.00 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

Instrument :

MSVOA_D

ClientSampleId :

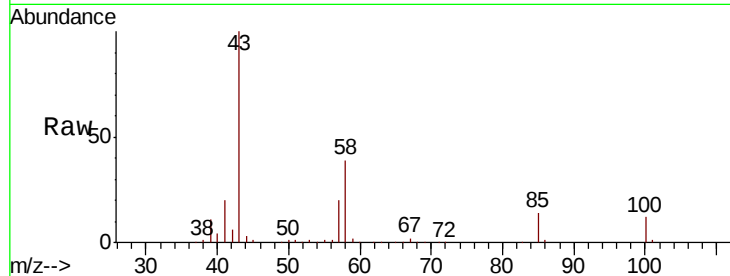
VSTDCCC050EC

Tot Ion: 43 Resp: 1100447

Ion Ratio Lower Upper

43 100

58 38.5 30.6 45.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.30

400000

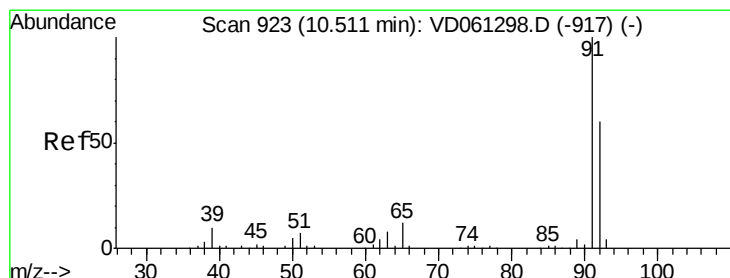
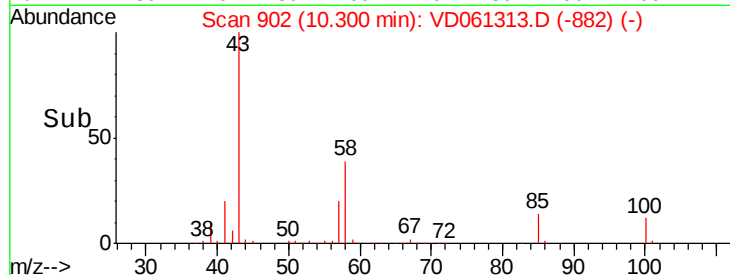
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 52.149 ug/l

RT: 10.52 min Scan# 924

Delta R.T. 0.01 min

Lab File: VD061313.D

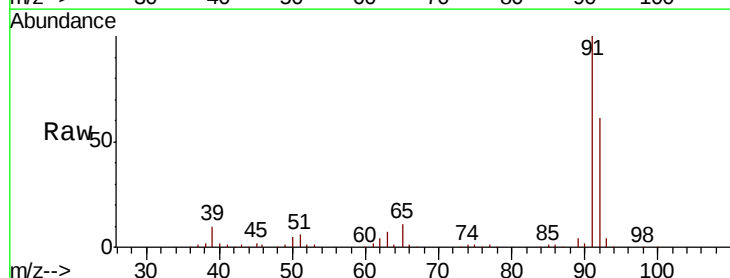
Acq: 25 Mar 2019 20:53

Tgt Ion: 92 Resp: 807246

Ion Ratio Lower Upper

92 100

91 163.1 133.1 199.7



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

600000

500000

400000

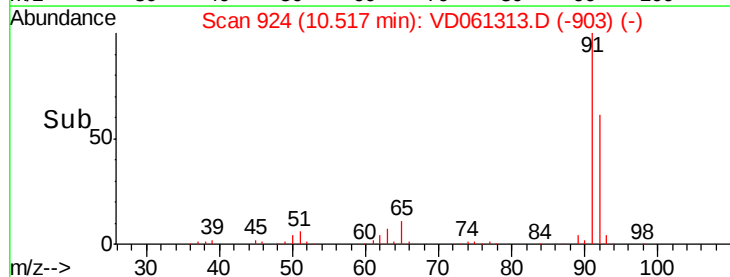
300000

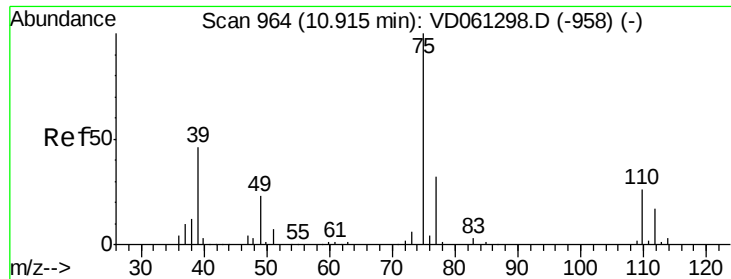
200000

100000

0

Time-->

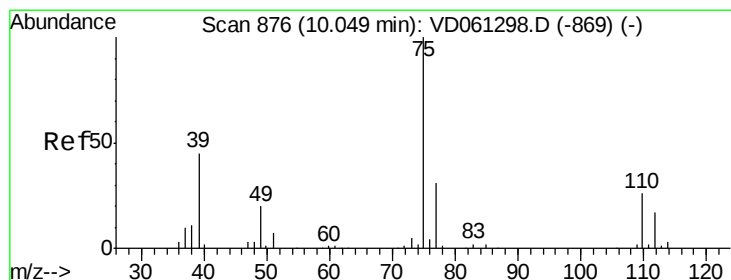
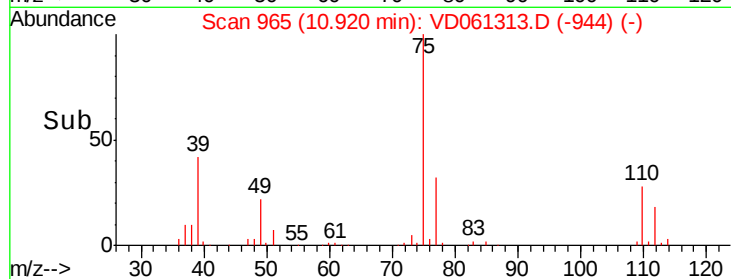
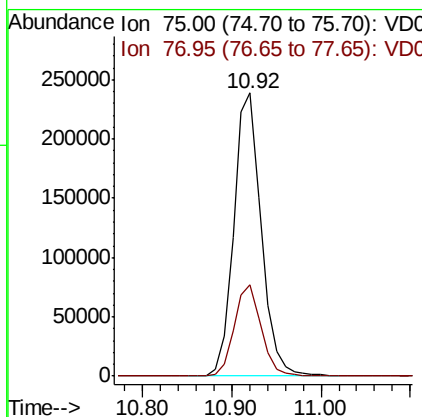
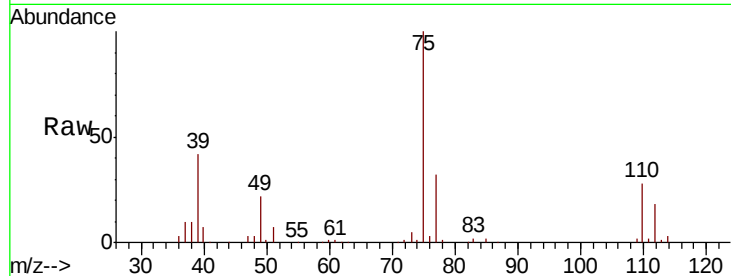




#53
 t-1,3-Dichloropropene
 Concen: 58.843 ug/l
 RT: 10.92 min Scan# 965
 Delta R.T. 0.01 min
 Lab File: VD061313.D
 Acq: 25 Mar 2019 20:53

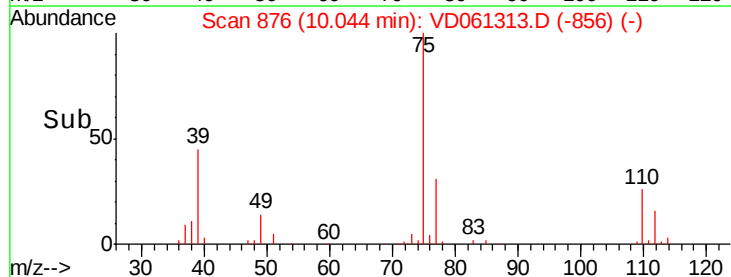
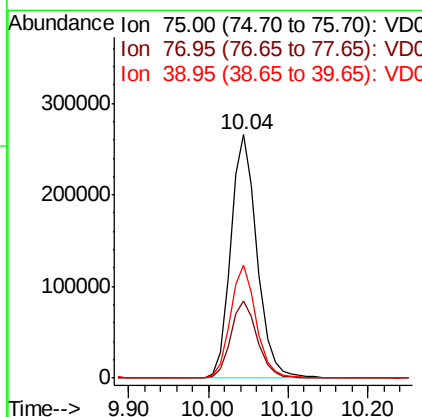
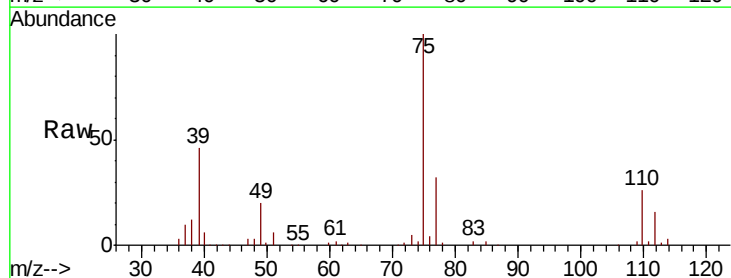
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

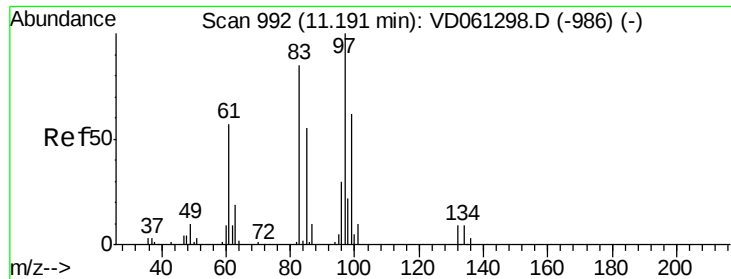
Tot Ion: 75 Resp: 512993
 Ion Ratio Lower Upper
 75 100
 77 32.2 25.8 38.6



#54
 cis-1,3-Dichloropropene
 Concen: 57.503 ug/l
 RT: 10.04 min Scan# 876
 Delta R.T. -0.00 min
 Lab File: VD061313.D
 Acq: 25 Mar 2019 20:53

Tgt Ion: 75 Resp: 612149
 Ion Ratio Lower Upper
 75 100
 77 31.5 24.9 37.3
 39 46.3 36.0 54.0

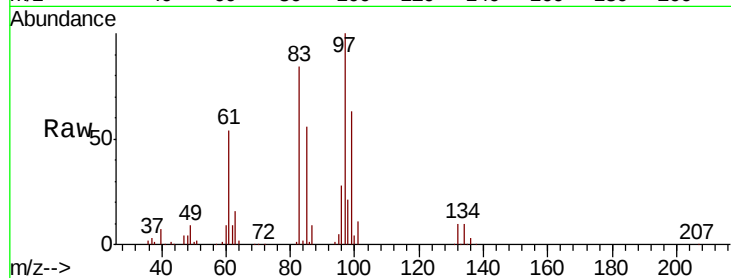




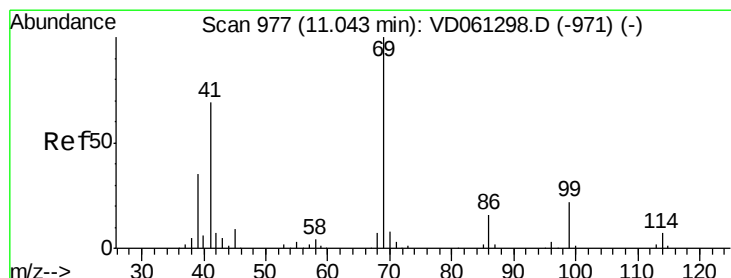
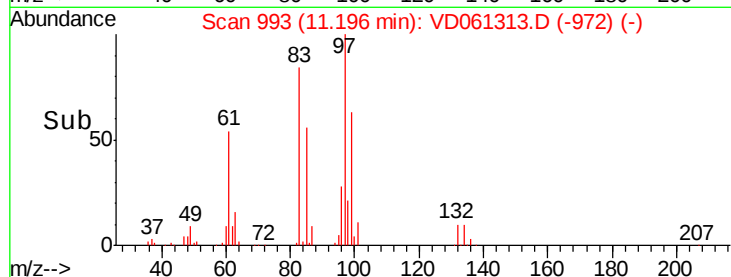
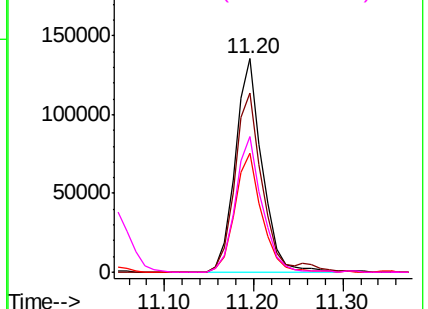
#55
 1,1,2-Trichloroethane
 Concen: 55.524 ug/l
 RT: 11.20 min Scan# 993
 Delta R.T. 0.01 min
 Lab File: VD061313.D
 Acq: 25 Mar 2019 20:53

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 97 Resp: 285345
 Ion Ratio Lower Upper
 97 100
 83 83.7 67.7 101.5
 85 55.6 43.8 65.8
 99 63.3 49.8 74.6

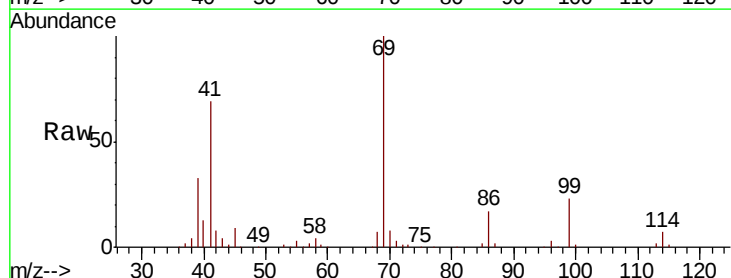


Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC

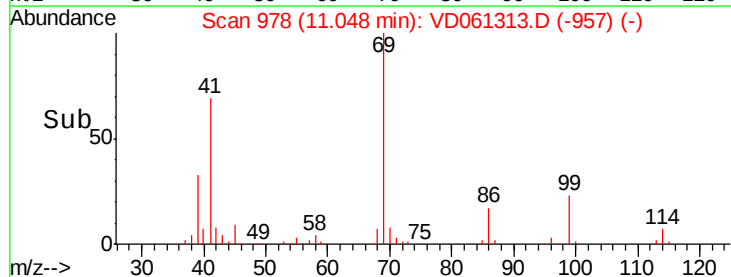
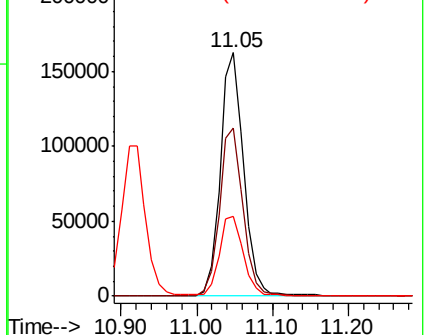


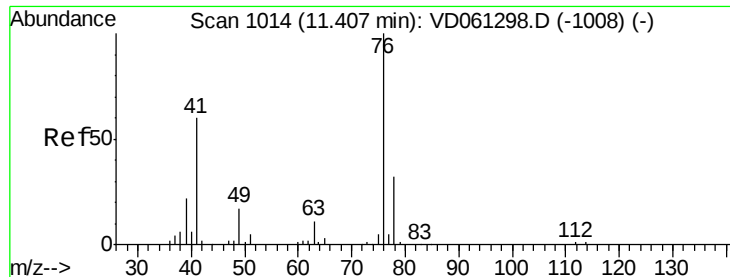
#56
 Ethyl methacrylate
 Concen: 63.460 ug/l
 RT: 11.05 min Scan# 978
 Delta R.T. 0.01 min
 Lab File: VD061313.D
 Acq: 25 Mar 2019 20:53

Tgt Ion: 69 Resp: 348009
 Ion Ratio Lower Upper
 69 100
 41 69.1 54.9 82.3
 39 33.0 28.5 42.7



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: 57.048 ug/l

RT: 11.41 min Scan# 1015

Delta R.T. 0.01 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

Instrument :

MSVOA_D

ClientSampleId :

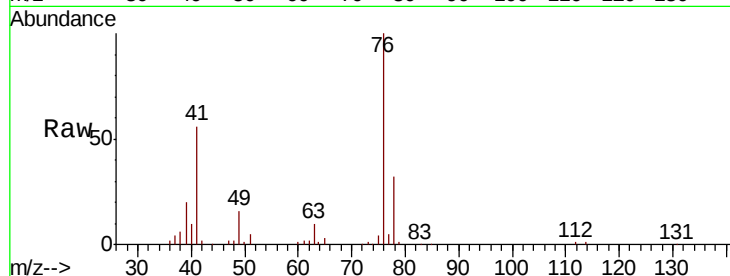
VSTDCCC050EC

Tot Ion: 76 Resp: 442776

Ion Ratio Lower Upper

76 100

78 31.7 25.7 38.5



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC

11.41

200000

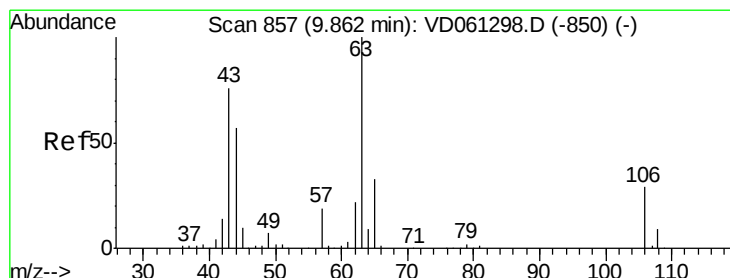
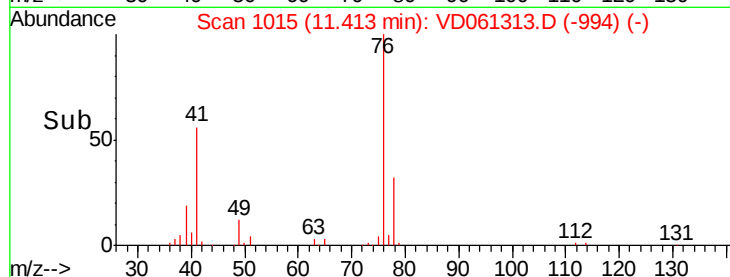
150000

100000

50000

0

Time--> 11.30 11.40 11.50



#58

2-Chloroethyl Vinyl ether

Concen: 262.531 ug/l

RT: 9.86 min Scan# 857

Delta R.T. -0.00 min

Lab File: VD061313.D

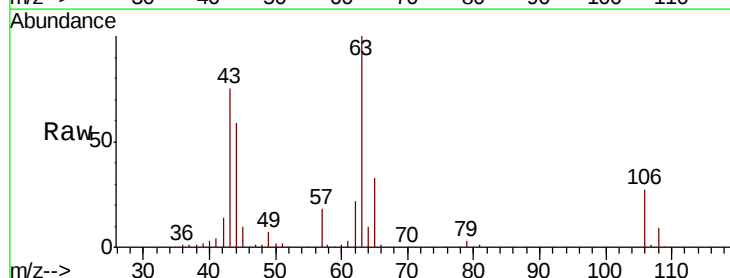
Acq: 25 Mar 2019 20:53

Tgt Ion: 63 Resp: 748985

Ion Ratio Lower Upper

63 100

106 26.7 23.4 35.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

9.86

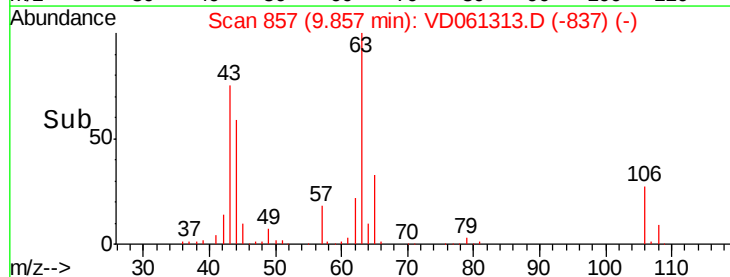
300000

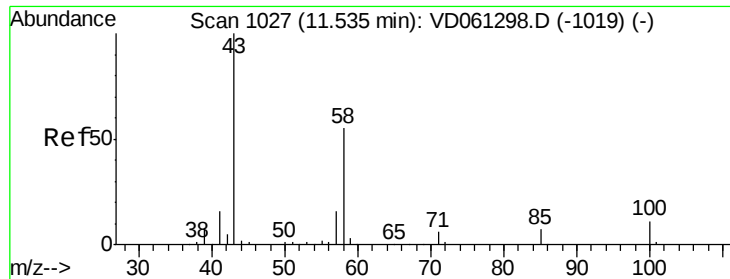
200000

100000

0

Time--> 9.70 9.80 9.90 10.00

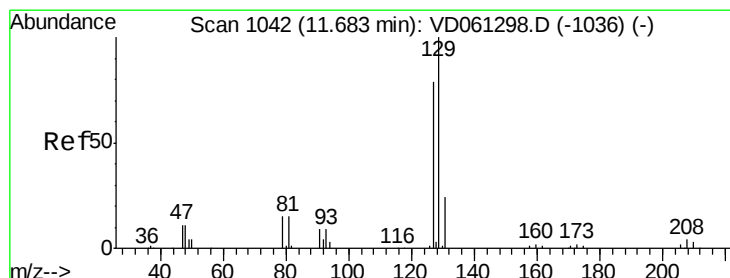
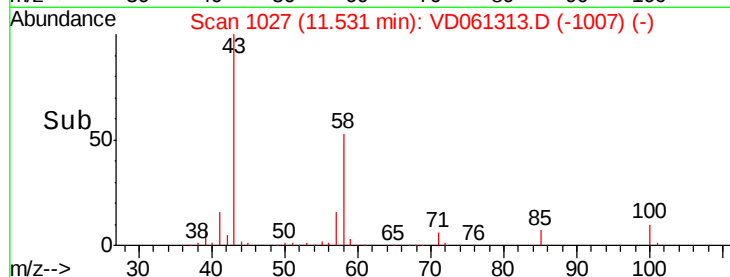
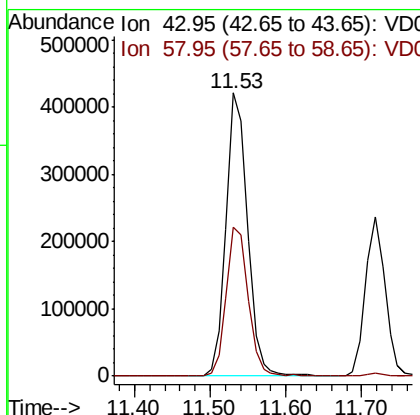
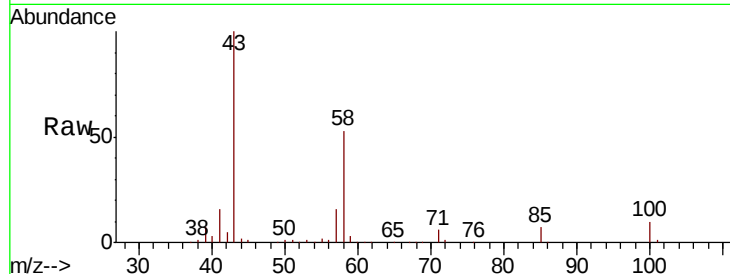




#59
2-Hexanone
Concen: 312.494 ug/l
RT: 11.53 min Scan# 1027
Delta R.T. -0.00 min
Lab File: VD061313.D
Acq: 25 Mar 2019 20:53

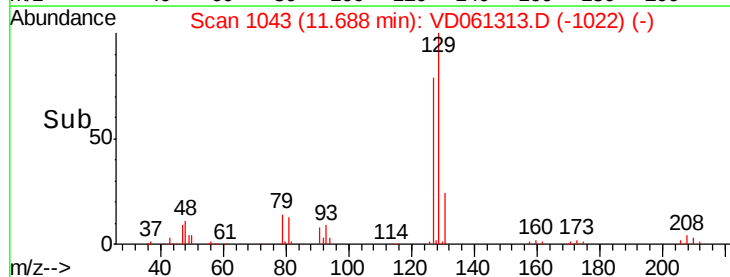
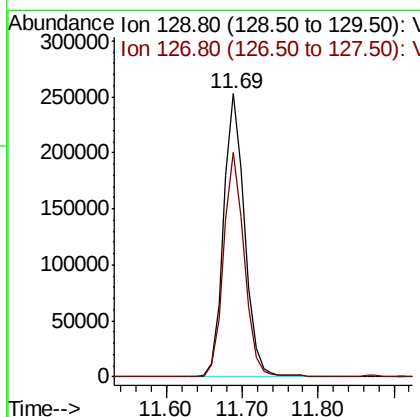
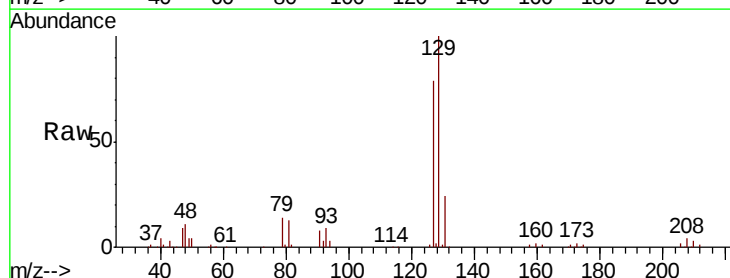
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

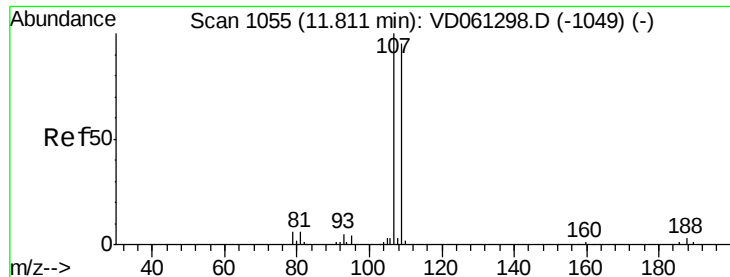
Tot Ion: 43 Resp: 828853
Ion Ratio Lower Upper
43 100
58 52.8 27.4 82.0



#60
Dibromochloromethane
Concen: 60.110 ug/l
RT: 11.69 min Scan# 1043
Delta R.T. 0.01 min
Lab File: VD061313.D
Acq: 25 Mar 2019 20:53

Tgt Ion: 129 Resp: 483830
Ion Ratio Lower Upper
129 100
127 79.3 39.6 119.0

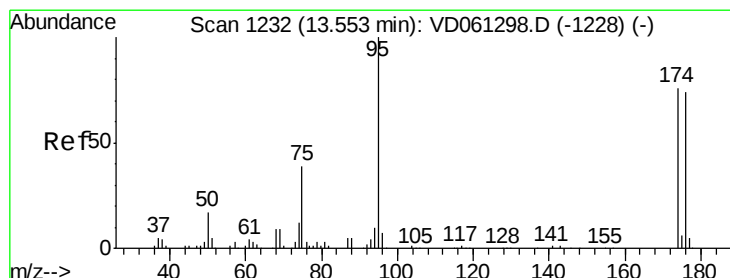
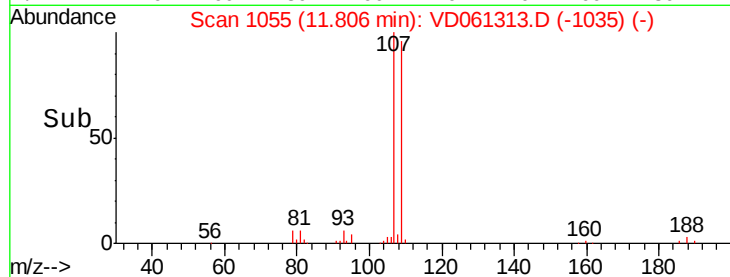
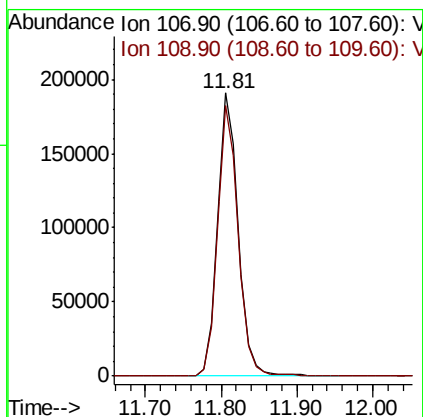
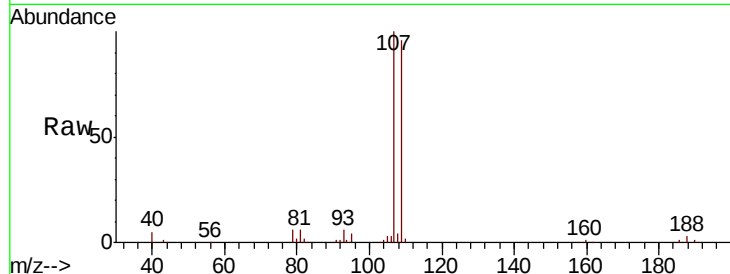




#61
 1,2-Dibromoethane
 Concen: 60.604 ug/l
 RT: 11.81 min Scan# 1055
 Delta R.T. -0.00 min
 Lab File: VD061313.D
 Acq: 25 Mar 2019 20:53

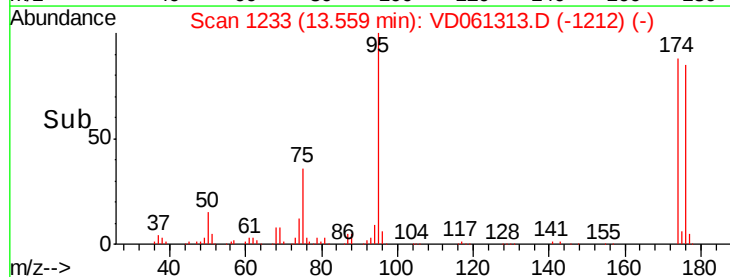
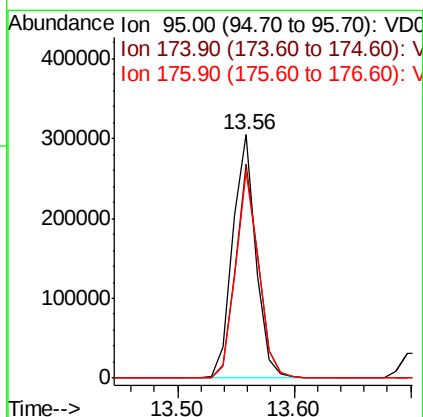
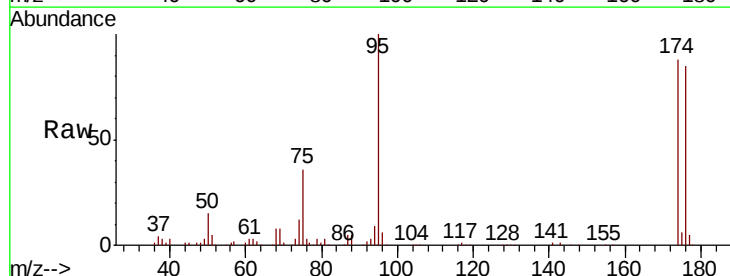
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

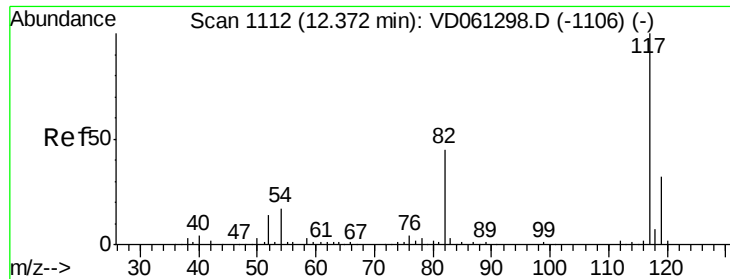
Tot Ion:107 Resp: 363902
 Ion Ratio Lower Upper
 107 100
 109 95.5 76.1 114.1



#62
 4-Bromofluorobenzene
 Concen: 60.604 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.01 min
 Lab File: VD061313.D
 Acq: 25 Mar 2019 20:53

Tgt Ion: 95 Resp: 418234
 Ion Ratio Lower Upper
 95 100
 174 87.8 0.0 151.8
 176 84.6 0.0 148.0

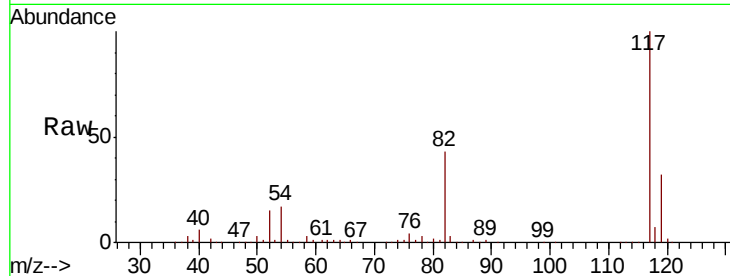




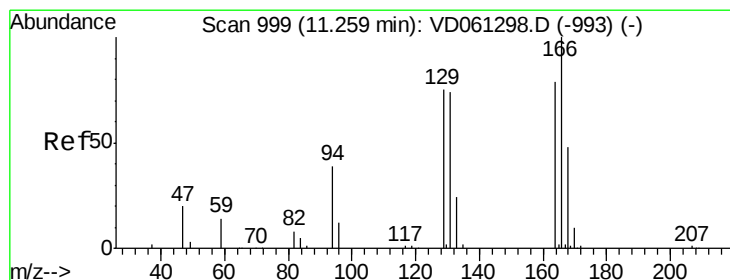
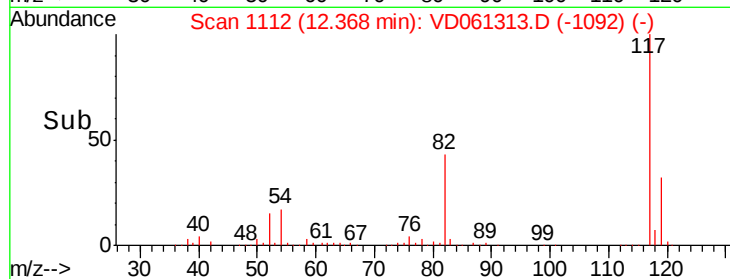
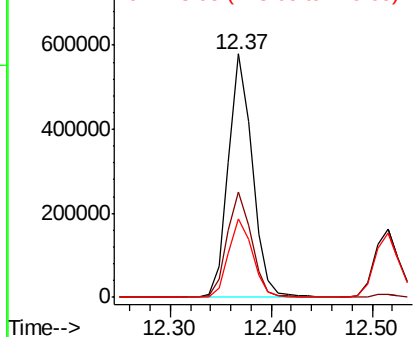
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VD061313.D
Acq: 25 Mar 2019 20:53

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion:117 Resp: 956811
Ion Ratio Lower Upper
117 100
82 43.4 35.7 53.5
119 32.0 25.9 38.9

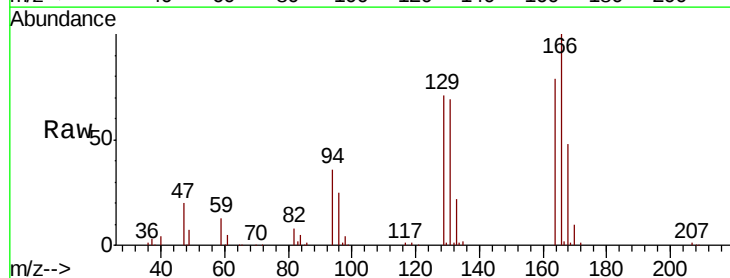


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

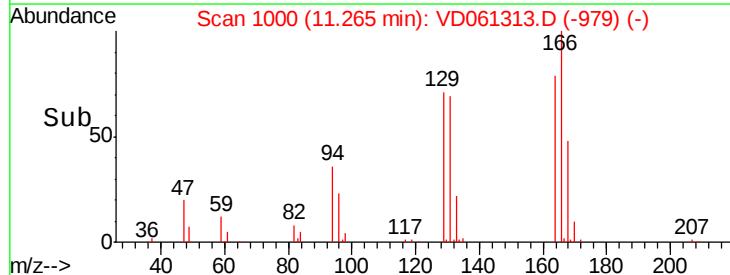
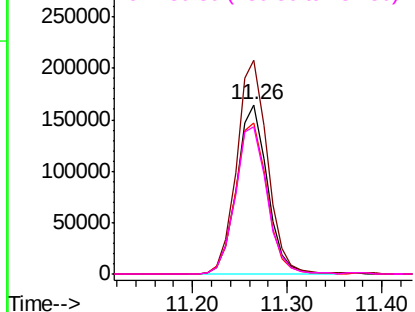


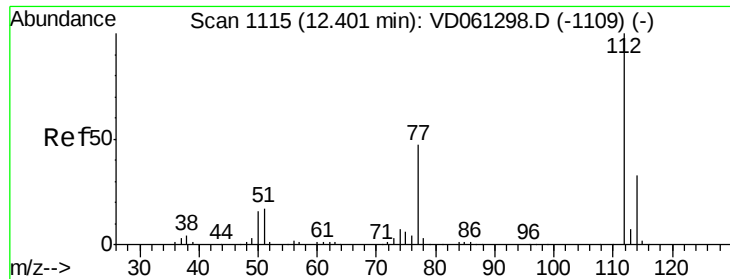
#64
Tetrachloroethene
Concen: 55.944 ug/l
RT: 11.26 min Scan# 1000
Delta R.T. 0.01 min
Lab File: VD061313.D
Acq: 25 Mar 2019 20:53

Tgt Ion:164 Resp: 368738
Ion Ratio Lower Upper
164 100
166 126.1 101.6 152.4
129 89.2 75.9 113.9
131 87.1 75.3 112.9



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

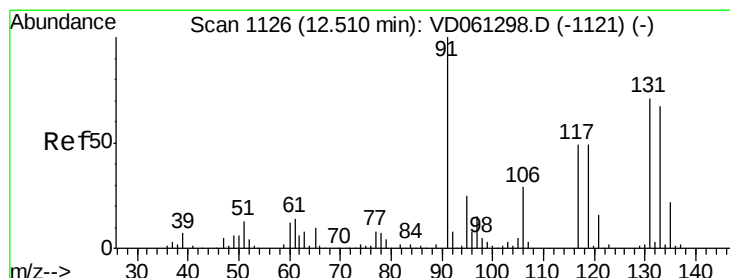
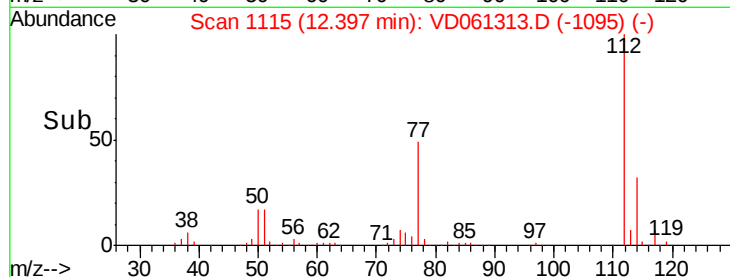
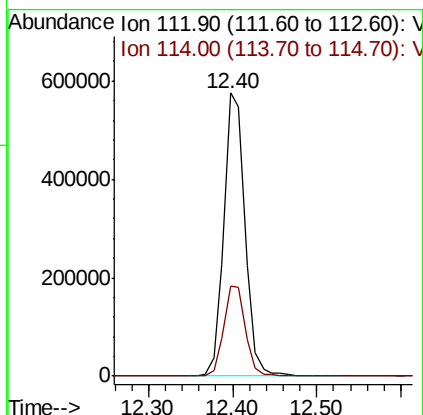
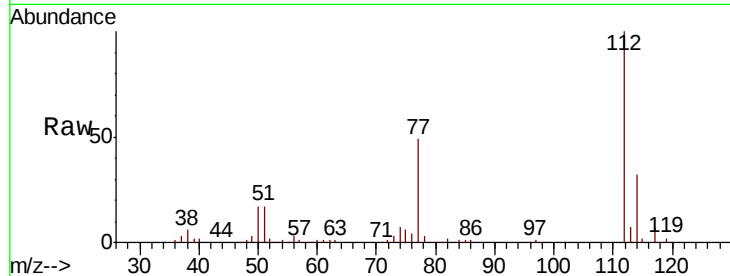




#65
Chlorobenzene
Concen: 56.791 ug/l
RT: 12.40 min Scan# 1115
Delta R.T. -0.00 min
Lab File: VD061313.D
Acq: 25 Mar 2019 20:53

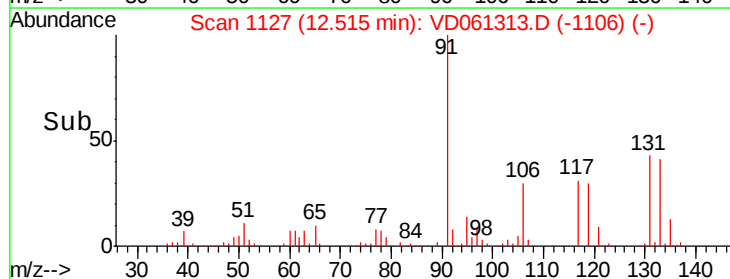
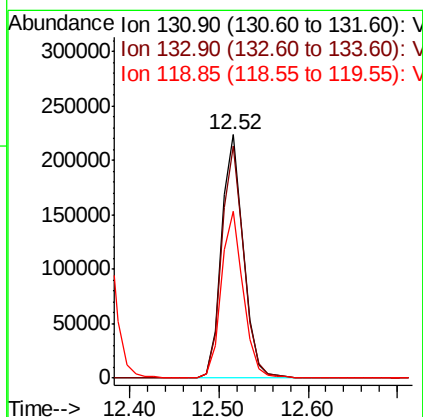
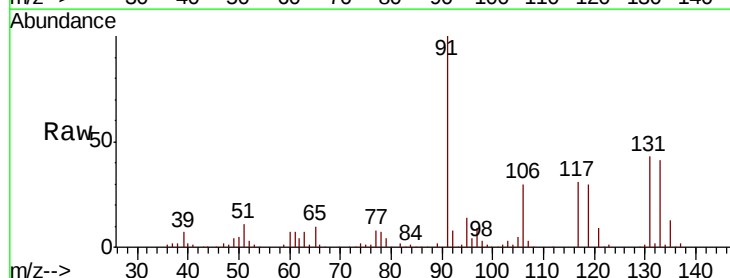
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

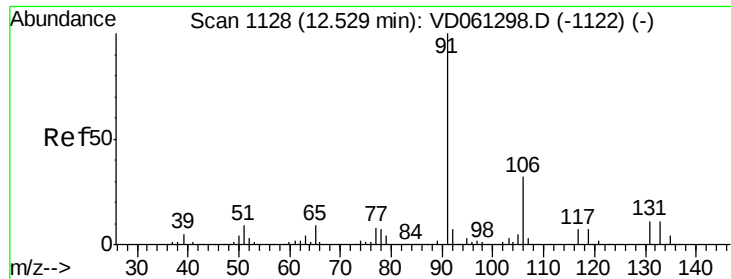
Tot Ion:112 Resp: 1000864
Ion Ratio Lower Upper
112 100
114 31.9 26.5 39.7



#66
1,1,1,2-Tetrachloroethane
Concen: 56.813 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. 0.01 min
Lab File: VD061313.D
Acq: 25 Mar 2019 20:53

Tgt Ion:131 Resp: 388192
Ion Ratio Lower Upper
131 100
133 95.6 47.0 141.2
119 68.6 34.8 104.5

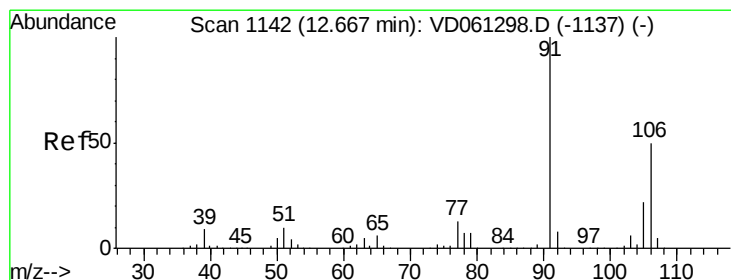
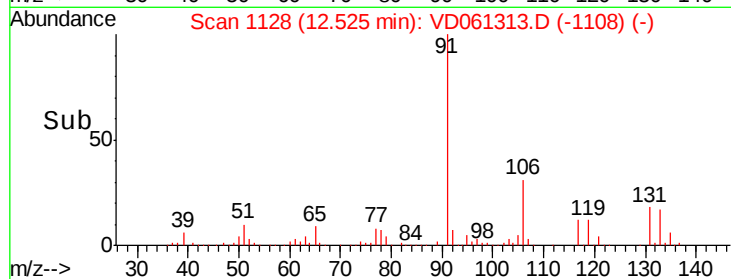
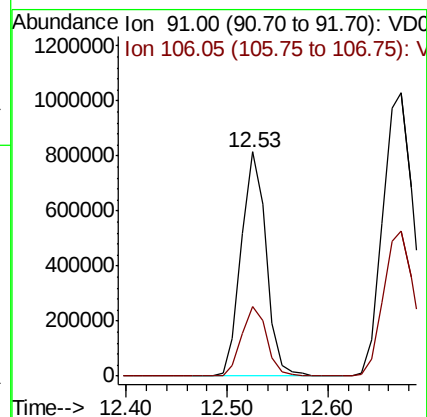
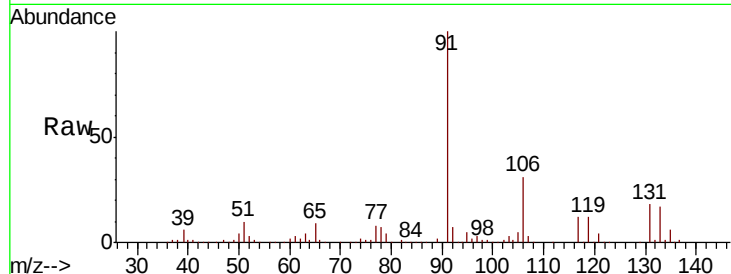




#67
Ethyl Benzene
Concen: 51.959 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. -0.00 min
Lab File: VD061313.D
Acq: 25 Mar 2019 20:53

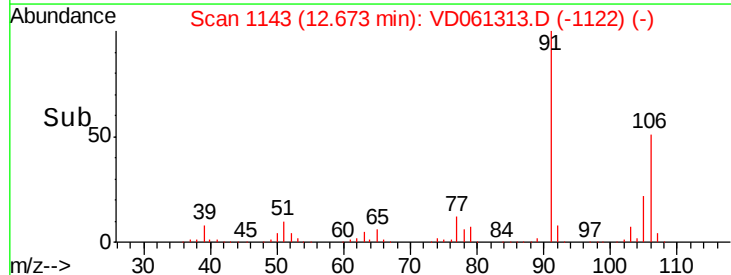
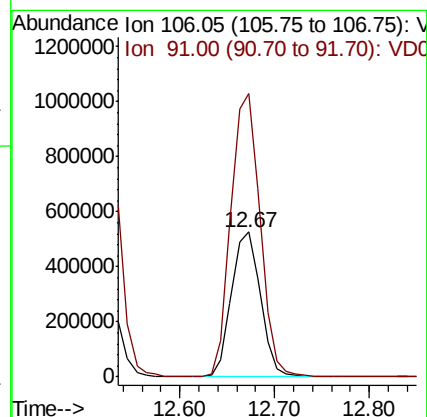
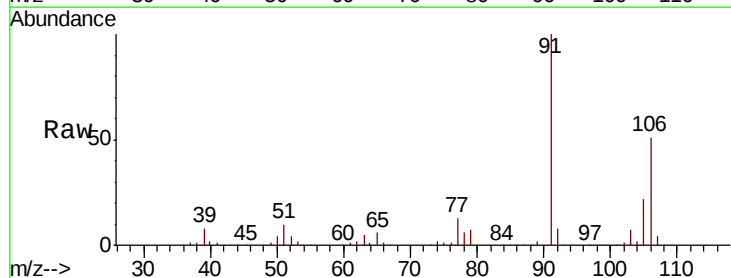
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

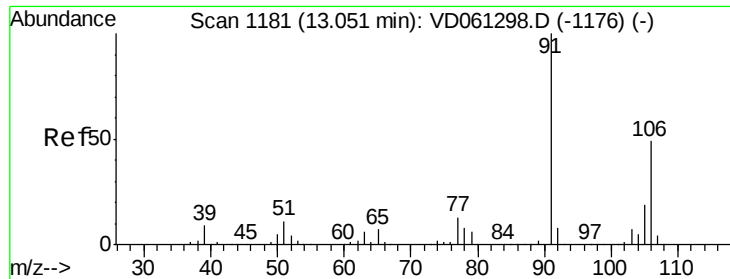
Tot Ion: 91 Resp: 1401384
Ion Ratio Lower Upper
91 100
106 31.3 25.8 38.8



#68
m/p-Xylenes
Concen: 105.900 ug/l
RT: 12.67 min Scan# 1143
Delta R.T. 0.01 min
Lab File: VD061313.D
Acq: 25 Mar 2019 20:53

Tgt Ion: 106 Resp: 1114938
Ion Ratio Lower Upper
106 100
91 195.6 159.2 238.8

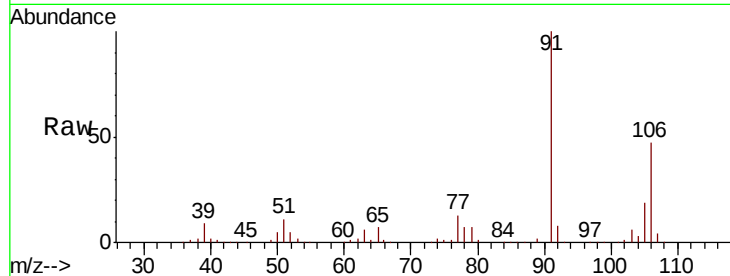




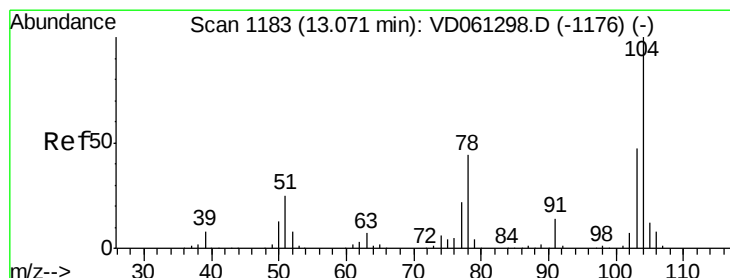
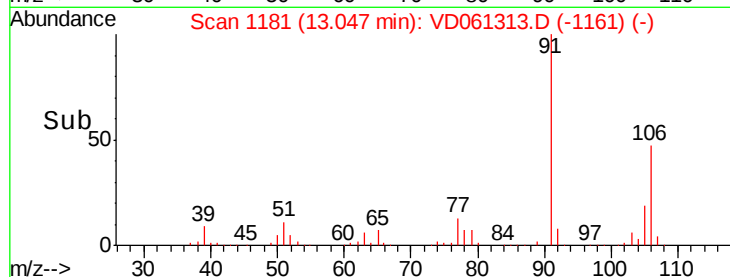
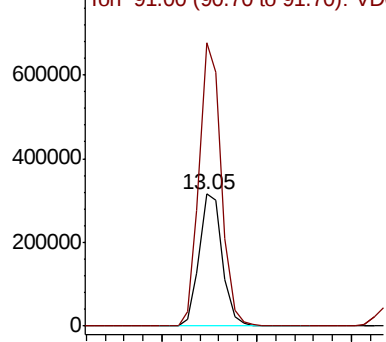
#69
o-Xylene
Concen: 54.948 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VD061313.D
Acq: 25 Mar 2019 20:53

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion:106 Resp: 536543
Ion Ratio Lower Upper
106 100
91 214.9 102.5 307.5

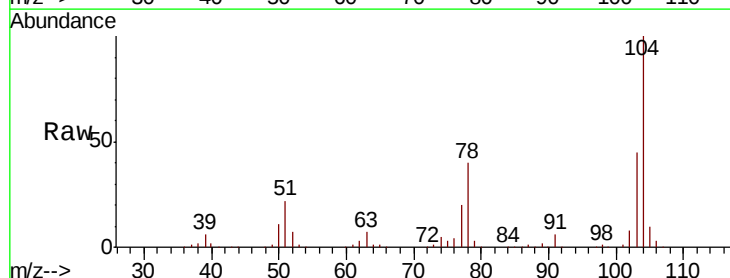


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

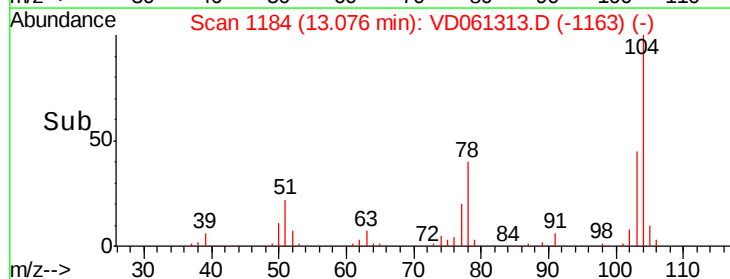
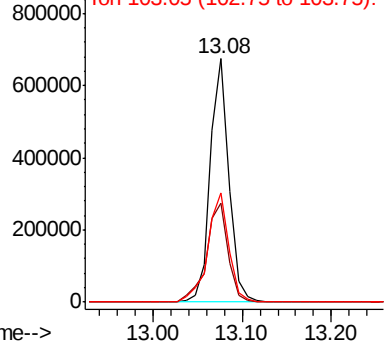


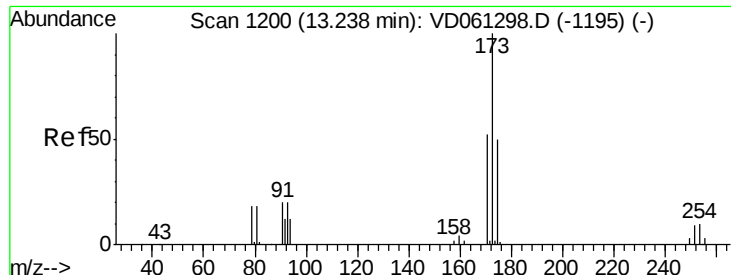
#70
Styrene
Concen: 59.543 ug/l
RT: 13.08 min Scan# 1184
Delta R.T. 0.01 min
Lab File: VD061313.D
Acq: 25 Mar 2019 20:53

Tgt Ion:104 Resp: 986719
Ion Ratio Lower Upper
104 100
78 40.5 35.1 52.7
103 45.0 37.5 56.3



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





#71

Bromoform

Concen: 63.449 ug/l

RT: 13.23 min Scan# 1200

Delta R.T. -0.00 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

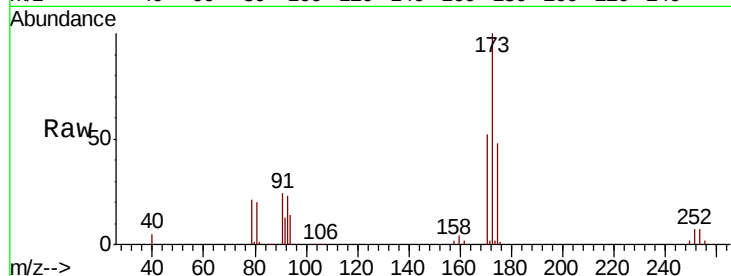
Tot Ion:173 Resp: 265293

Ion Ratio Lower Upper

173 100

175 47.9 24.9 74.7

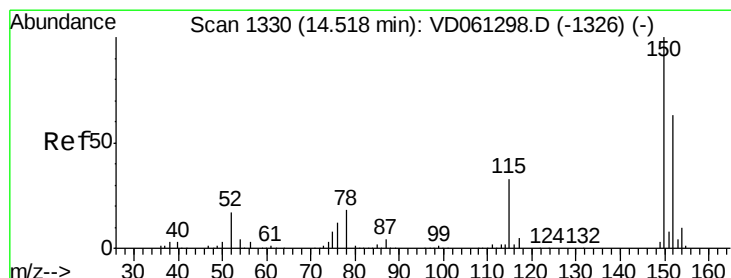
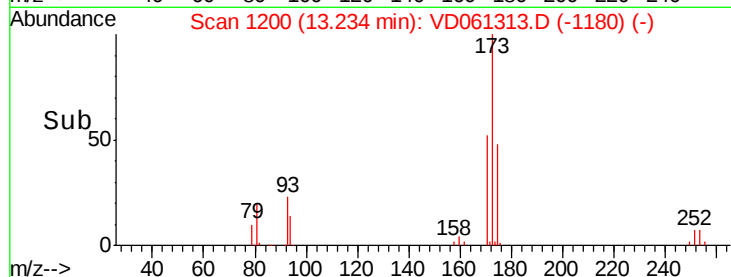
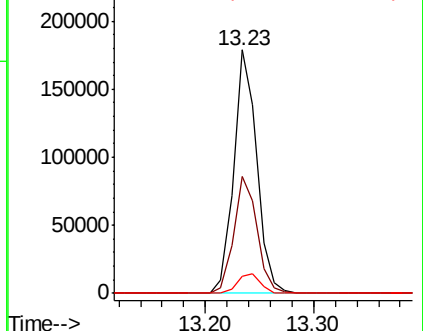
254 7.0 7.8 11.6#



Abundance Ion 172.80 (172.50 to 173.50): V

Ion 174.80 (174.50 to 175.50): V

Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

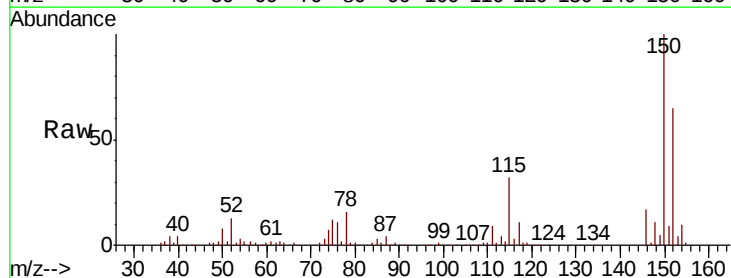
Tgt Ion:152 Resp: 455310

Ion Ratio Lower Upper

152 100

115 49.8 29.2 87.6

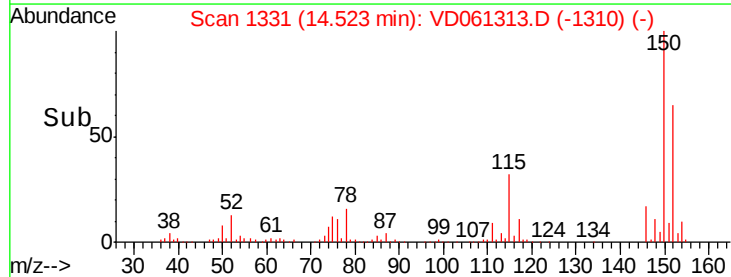
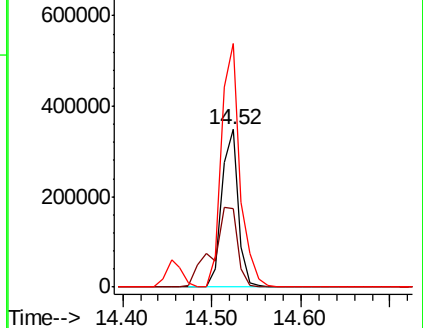
150 154.6 0.0 319.6

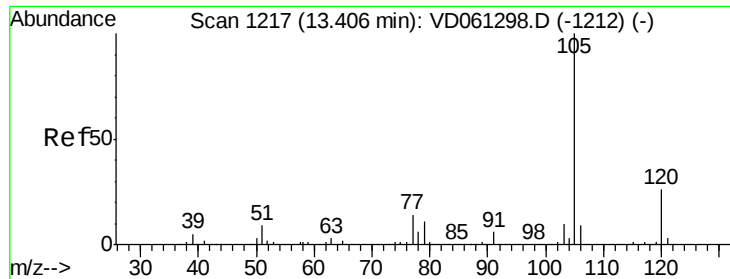


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 48.313 ug/l

RT: 13.40 min Scan# 1217

Delta R.T. -0.00 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

Instrument :

MSVOA_D

ClientSampleId :

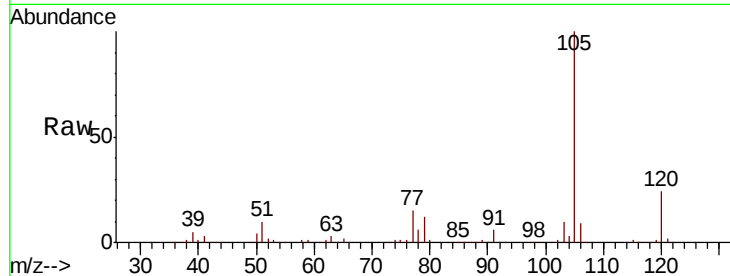
VSTDCCC050EC

Tot Ion:105 Resp: 1430768

Ion Ratio Lower Upper

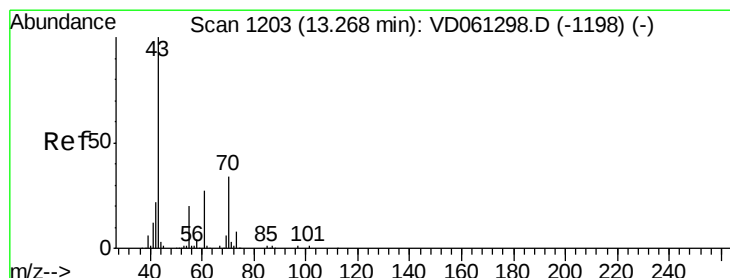
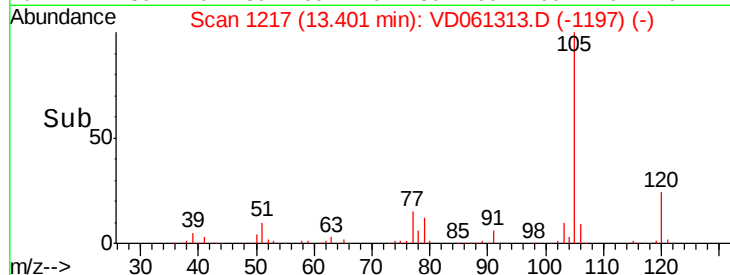
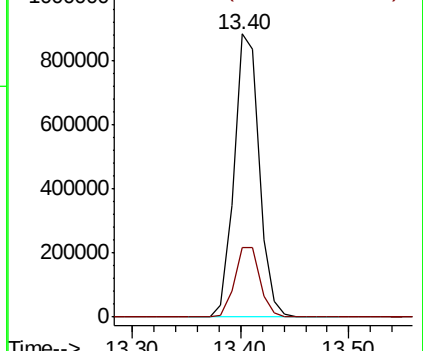
105 100

120 24.5 13.1 39.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 53.106 ug/l

RT: 13.26 min Scan# 1203

Delta R.T. -0.00 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

Tgt Ion: 43 Resp: 411463

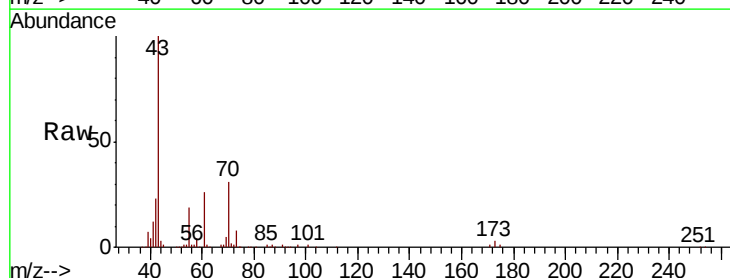
Ion Ratio Lower Upper

43 100

70 31.0 27.5 41.3

55 18.9 15.7 23.5

61 26.4 21.8 32.6

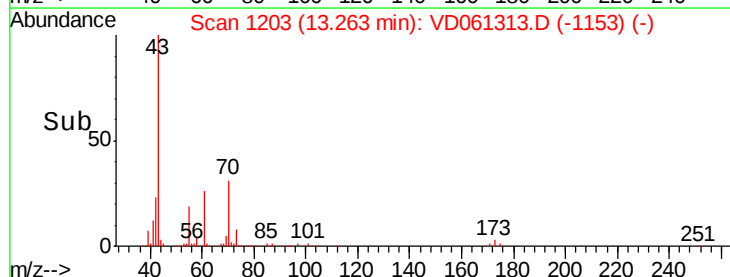
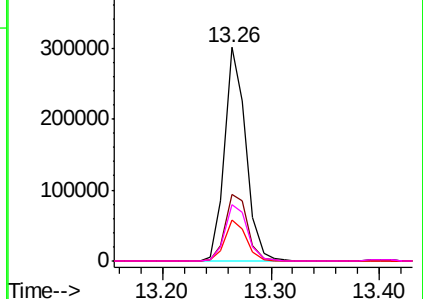


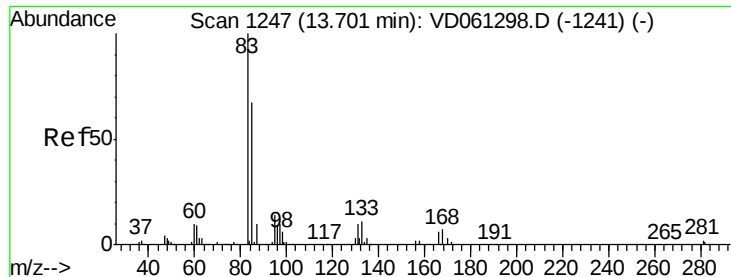
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 58.781 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. -0.00 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

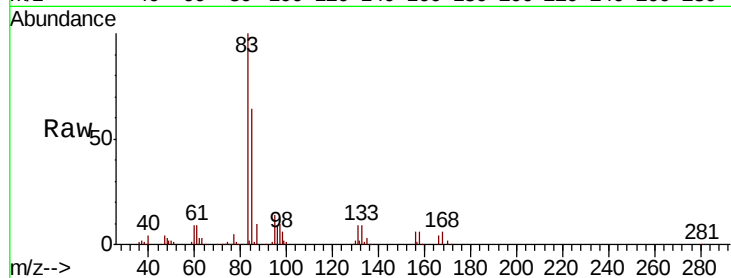
Tot Ion: 83 Resp: 337571

Ion Ratio Lower Upper

83 100

131 9.0 5.0 15.0

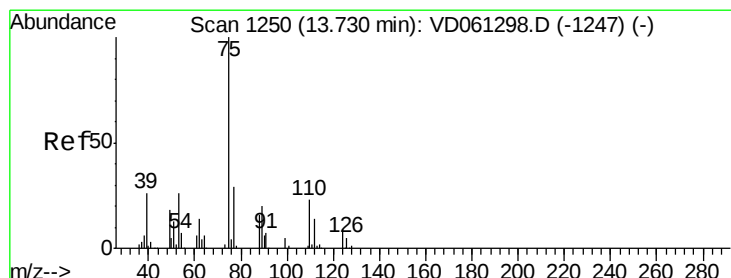
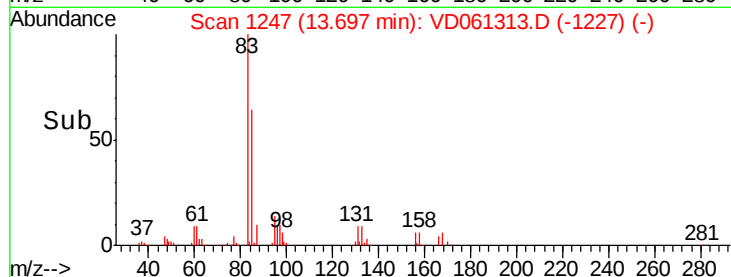
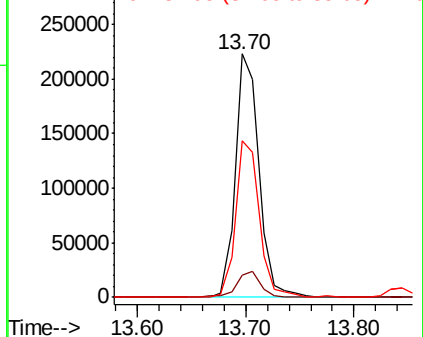
85 64.4 33.4 100.2



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: 60.389 ug/l

RT: 13.74 min Scan# 1251

Delta R.T. 0.01 min

Lab File: VD061313.D

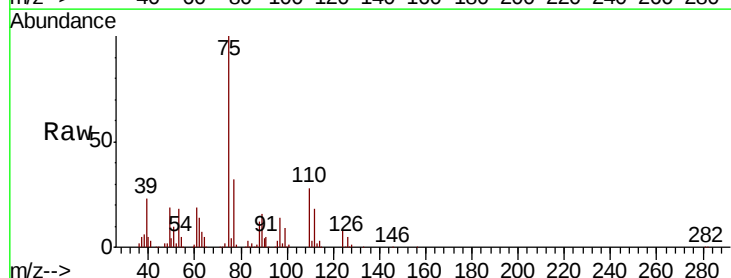
Acq: 25 Mar 2019 20:53

Tgt Ion: 75 Resp: 341941

Ion Ratio Lower Upper

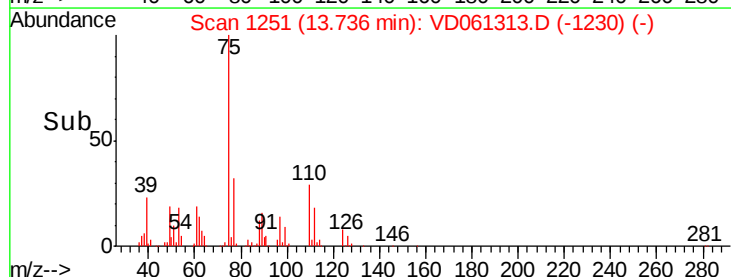
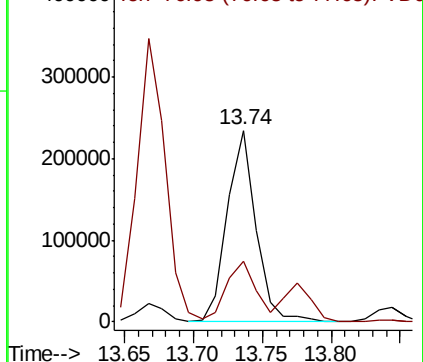
75 100

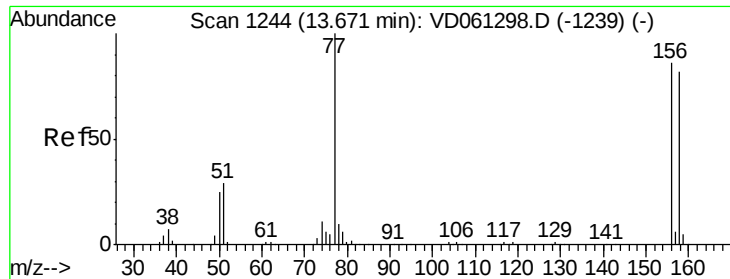
77 32.0 15.8 47.4



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 50.388 ug/l

RT: 13.67 min Scan# 1244

Delta R.T. -0.00 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

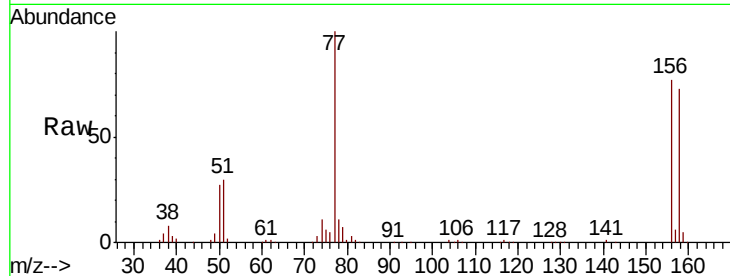
Tot Ion:156 Resp: 416816

Ion Ratio Lower Upper

156 100

77 129.8 58.4 175.1

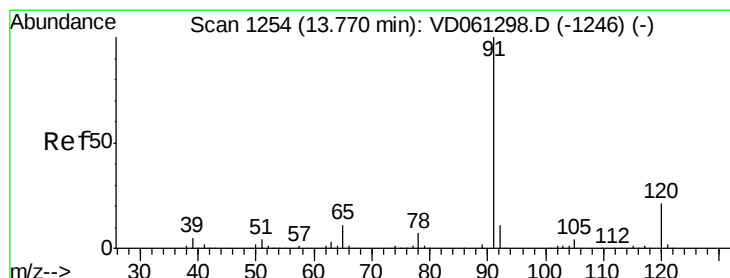
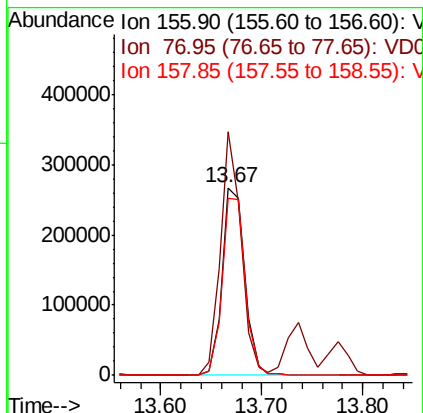
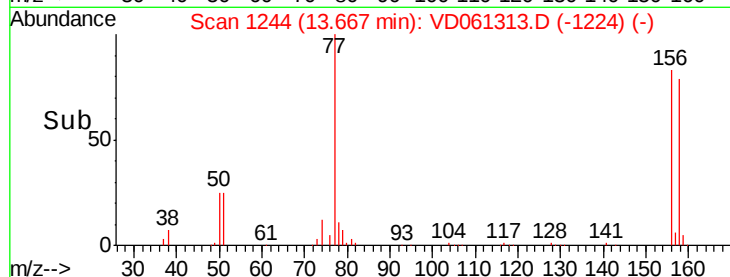
158 94.7 48.1 144.3



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 55.056 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VD061313.D

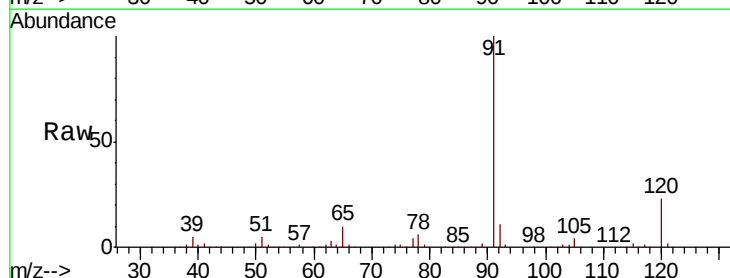
Acq: 25 Mar 2019 20:53

Tgt Ion: 91 Resp: 1839473

Ion Ratio Lower Upper

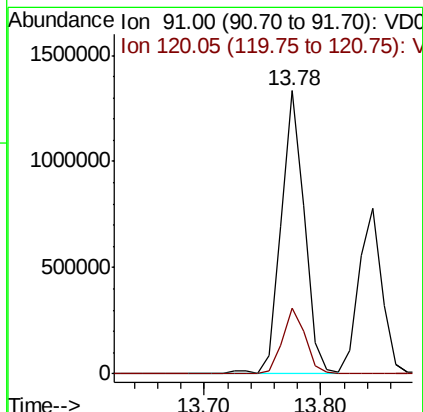
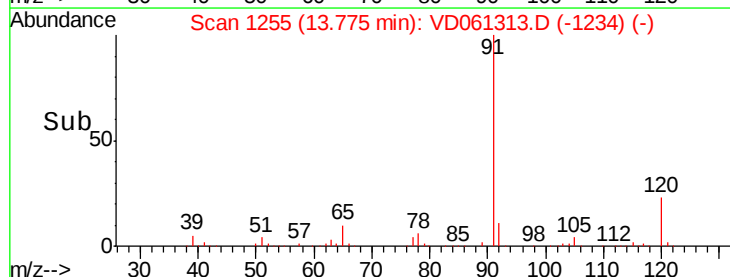
91 100

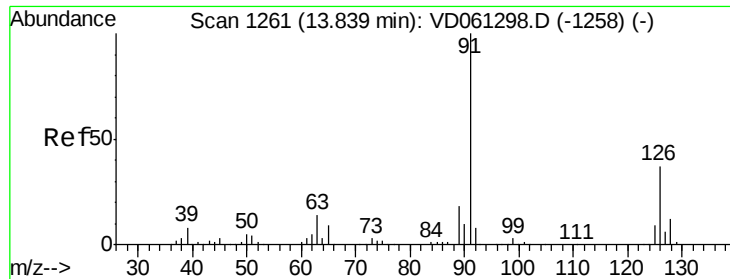
120 23.2 10.7 32.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 55.214 ug/l

RT: 13.84 min Scan# 1262

Delta R.T. 0.01 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

Instrument :

MSVOA_D

ClientSampleId :

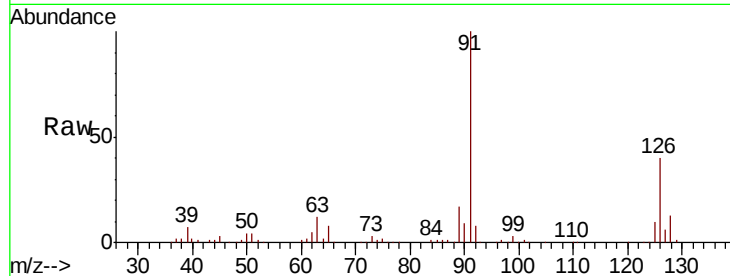
VSTDCCC050EC

Tot Ion: 91 Resp: 1074092

Ion Ratio Lower Upper

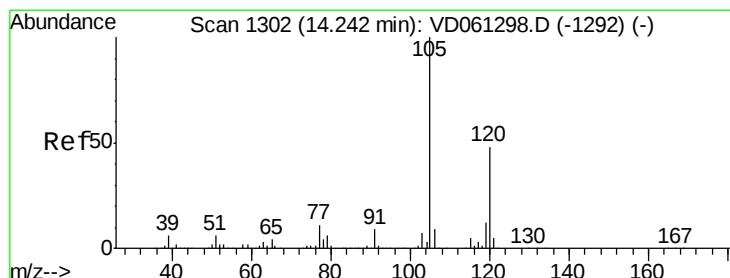
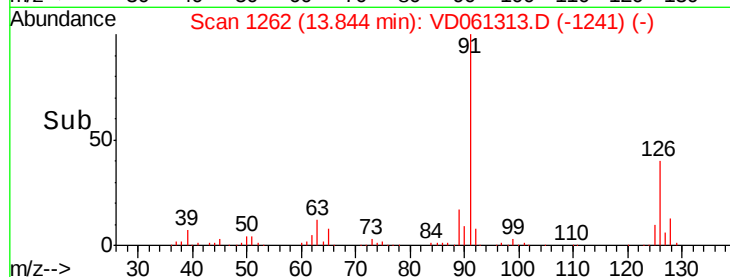
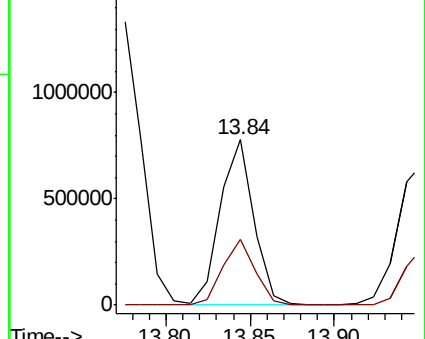
91 100

126 39.5 18.4 55.4



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: 52.367 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. -0.00 min

Lab File: VD061313.D

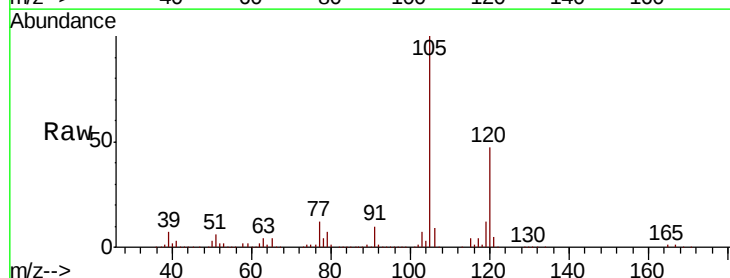
Acq: 25 Mar 2019 20:53

Tgt Ion:105 Resp: 1223417

Ion Ratio Lower Upper

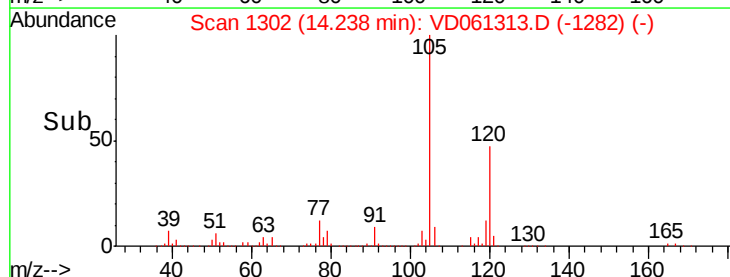
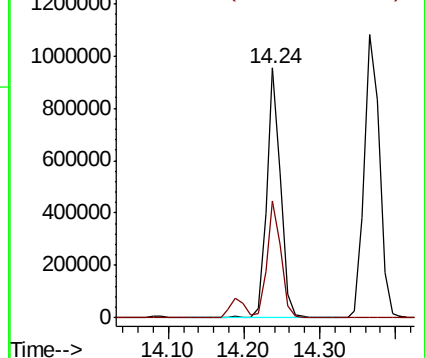
105 100

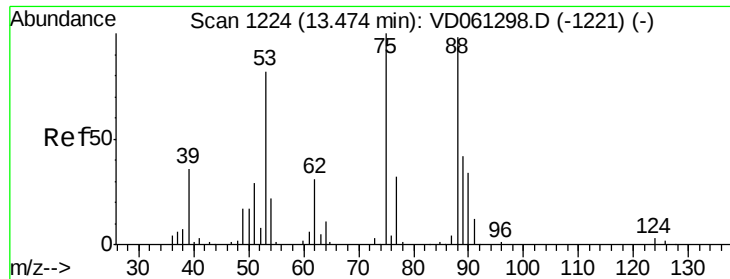
120 46.8 23.8 71.4



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: 60.529 ug/l

RT: 13.47 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VD061313.D

Acq: 25 Mar 2019 20:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

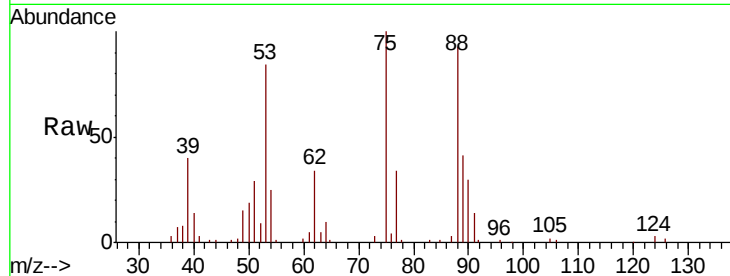
Tot Ion: 75 Resp: 108163

Ion Ratio Lower Upper

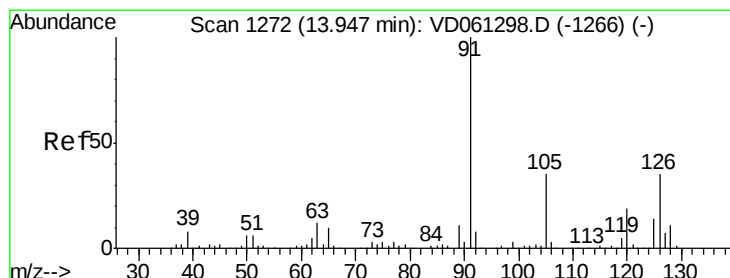
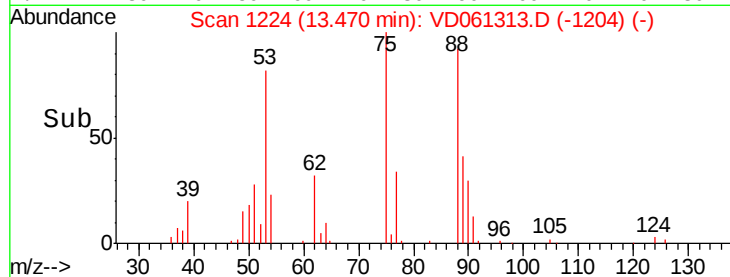
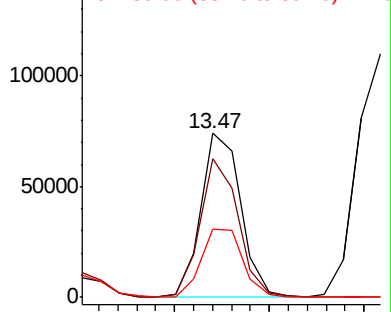
75 100

53 84.5 65.3 97.9

89 41.2 33.8 50.6



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: 48.514 ug/l

RT: 13.95 min Scan# 1273

Delta R.T. 0.01 min

Lab File: VD061313.D

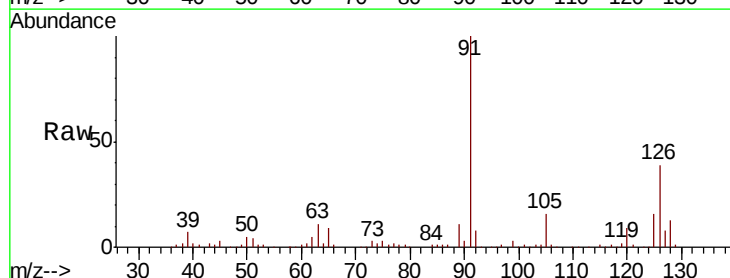
Acq: 25 Mar 2019 20:53

Tgt Ion: 91 Resp: 1031737

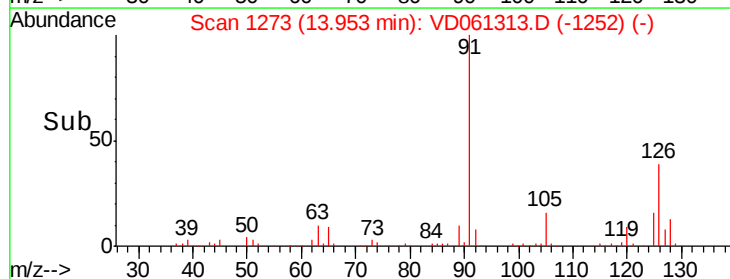
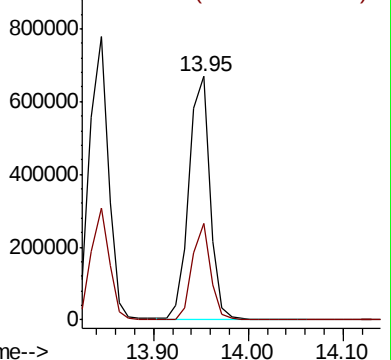
Ion Ratio Lower Upper

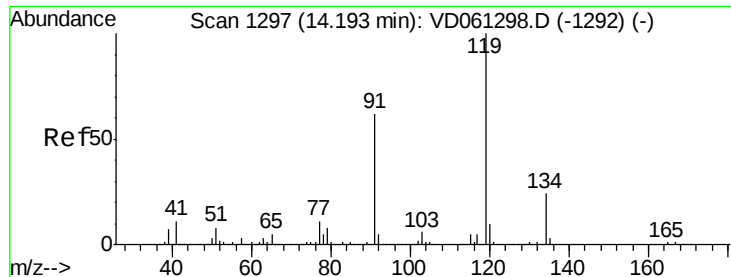
91 100

126 39.4 17.7 53.1



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

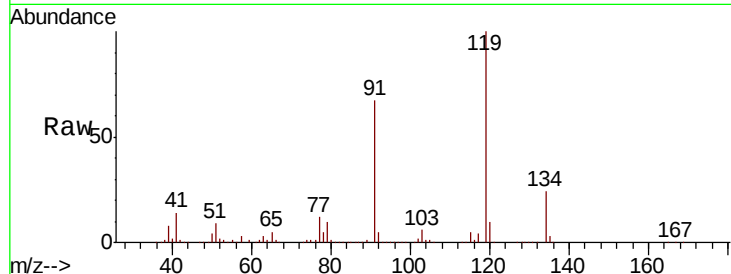




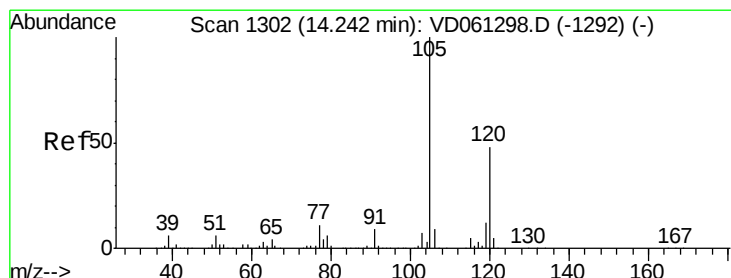
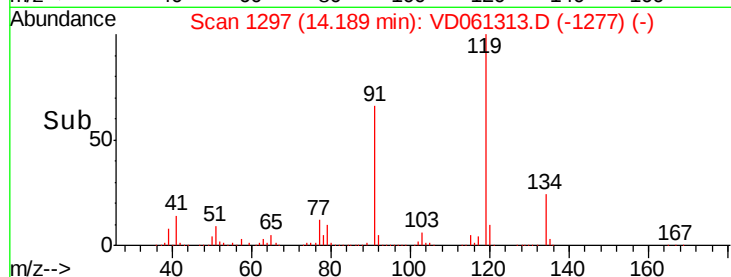
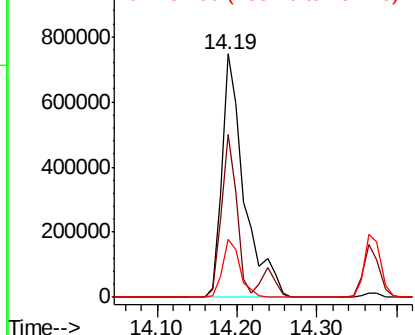
#83
tert-Butylbenzene
Concen: 55.264 ug/l
RT: 14.19 min Scan# 1297
Delta R.T. -0.00 min
Lab File: VD061313.D
Acq: 25 Mar 2019 20:53

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion:119 Resp: 1474132
Ion Ratio Lower Upper
119 100
91 66.8 31.1 93.5
134 24.1 11.9 35.7

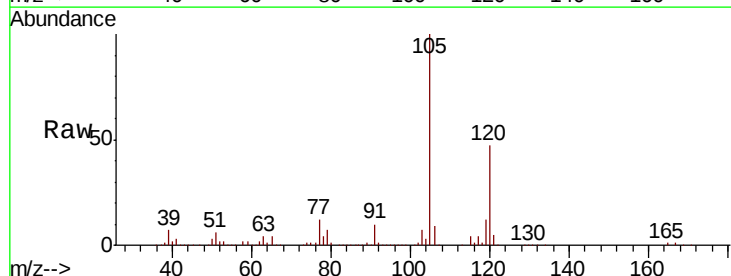


Abundance Ion 119.05 (118.75 to 119.75): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

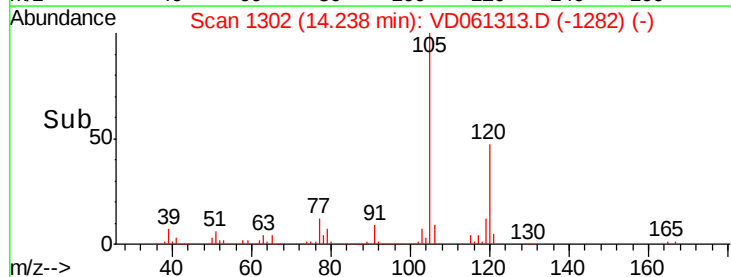
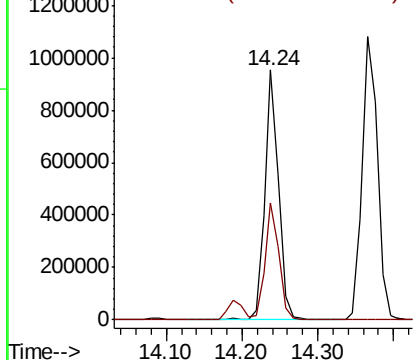


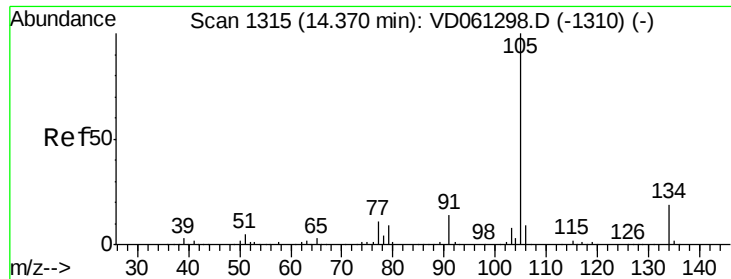
#84
1,2,4-Trimethylbenzene
Concen: 52.367 ug/l
RT: 14.24 min Scan# 1302
Delta R.T. -0.00 min
Lab File: VD061313.D
Acq: 25 Mar 2019 20:53

Tgt Ion:105 Resp: 1223417
Ion Ratio Lower Upper
105 100
120 46.8 23.8 71.4



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

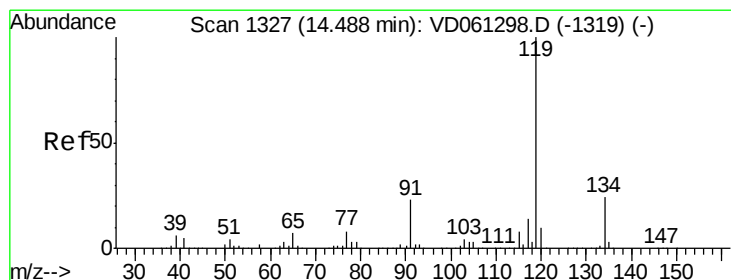
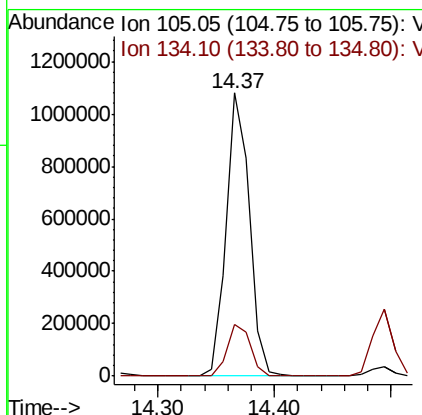
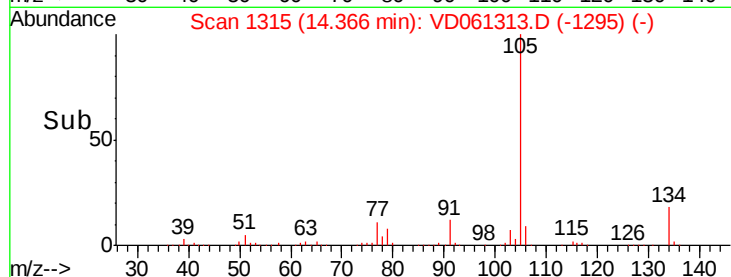
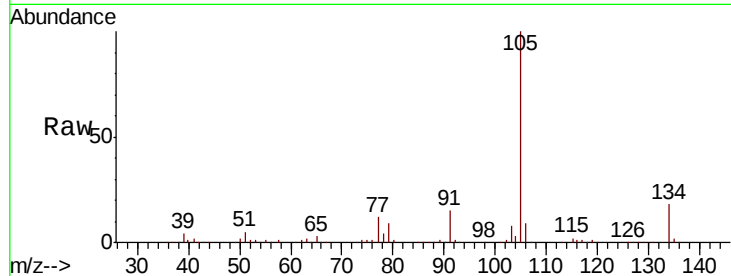




#85
 sec-Butylbenzene
 Concen: 50.073 ug/l
 RT: 14.37 min Scan# 1315
 Delta R.T. -0.00 min
 Lab File: VD061313.D
 Acq: 25 Mar 2019 20:53

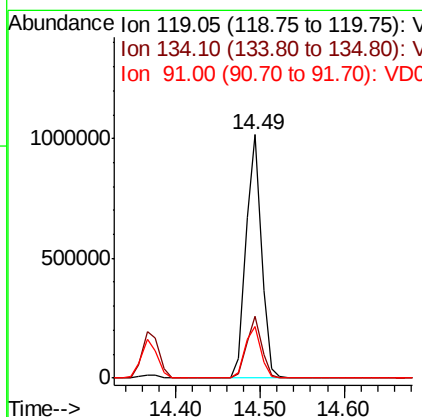
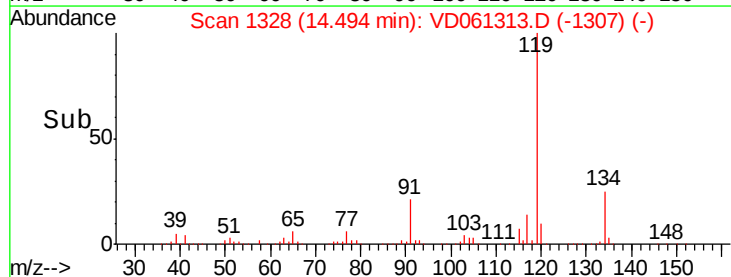
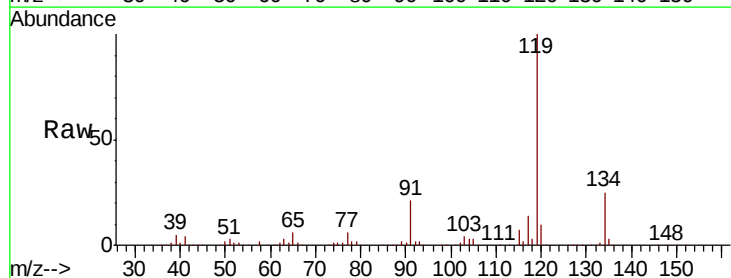
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

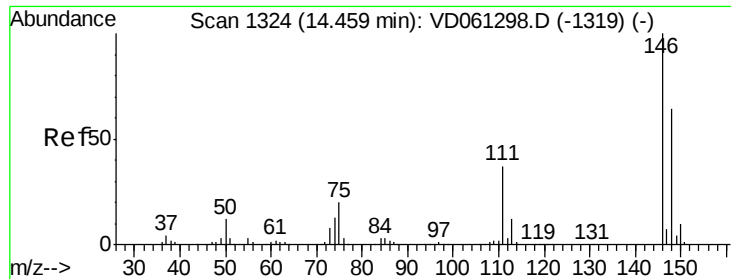
Tot Ion:105 Resp: 1487487
 Ion Ratio Lower Upper
 105 100
 134 18.1 9.5 28.5



#86
 p-Isopropyltoluene
 Concen: 48.839 ug/l
 RT: 14.49 min Scan# 1328
 Delta R.T. 0.01 min
 Lab File: VD061313.D
 Acq: 25 Mar 2019 20:53

Tgt Ion:119 Resp: 1294375
 Ion Ratio Lower Upper
 119 100
 134 25.3 12.1 36.3
 91 21.2 11.4 34.2

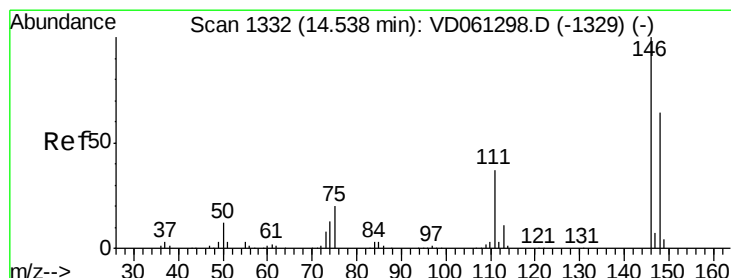
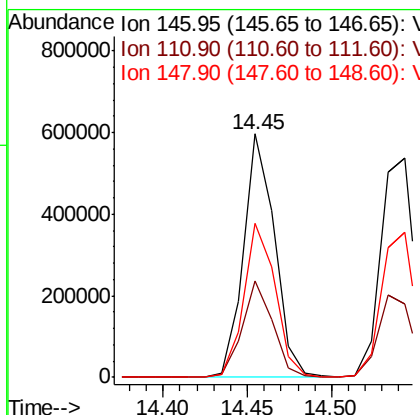
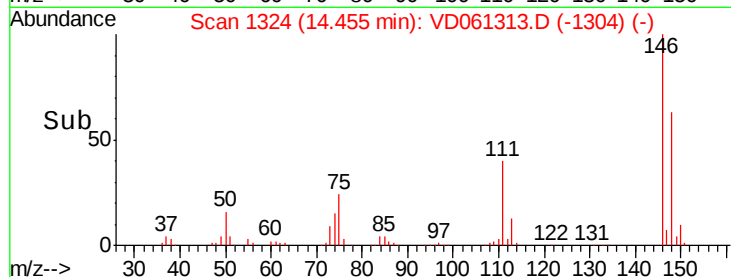
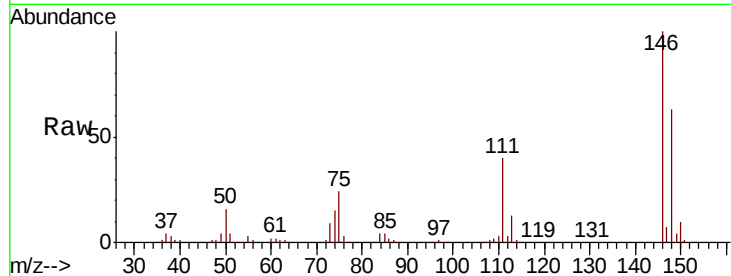




#87
 1,3-Dichlorobenzene
 Concen: 52.122 ug/l
 RT: 14.45 min Scan# 1324
 Delta R.T. -0.00 min
 Lab File: VD061313.D
 Acq: 25 Mar 2019 20:53

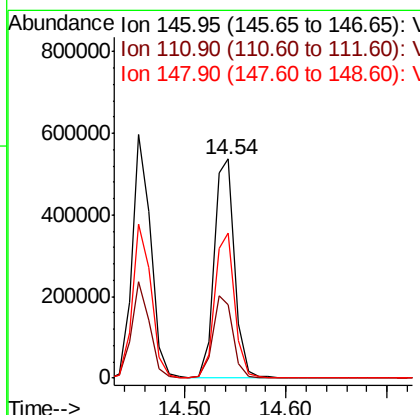
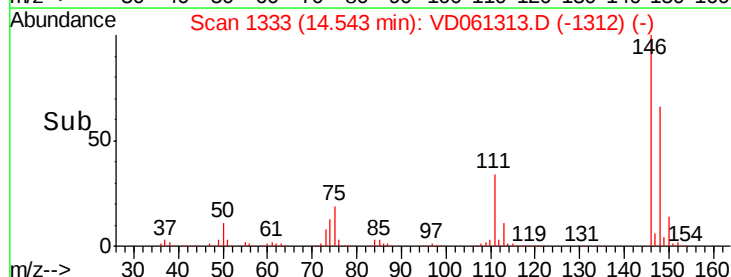
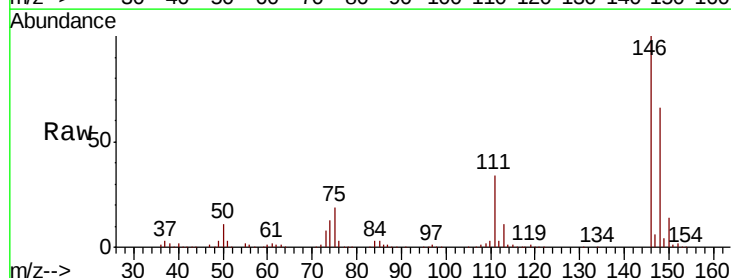
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

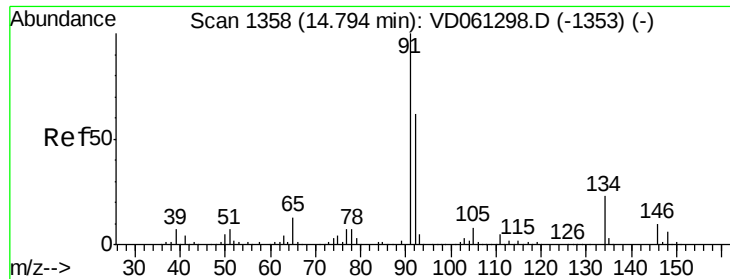
Tot Ion:146 Resp: 764253
 Ion Ratio Lower Upper
 146 100
 111 39.7 18.4 55.0
 148 63.4 32.0 96.2



#88
 1,4-Dichlorobenzene
 Concen: 53.598 ug/l
 RT: 14.54 min Scan# 1333
 Delta R.T. 0.01 min
 Lab File: VD061313.D
 Acq: 25 Mar 2019 20:53

Tgt Ion:146 Resp: 761275
 Ion Ratio Lower Upper
 146 100
 111 33.7 18.6 55.6
 148 66.5 31.9 95.5

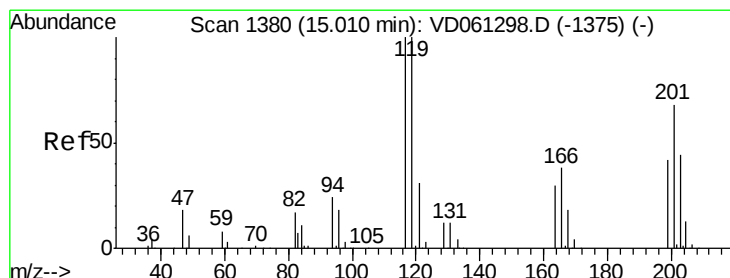
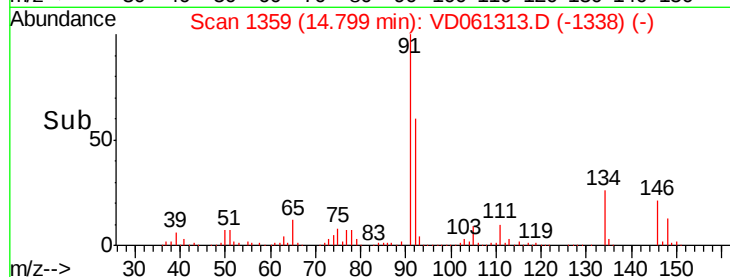
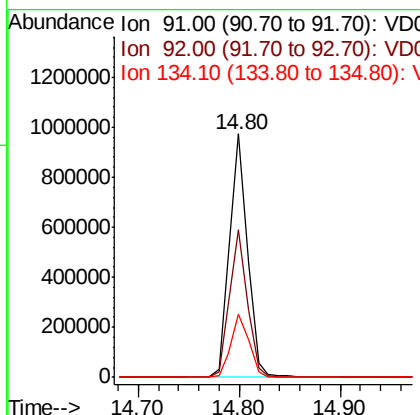
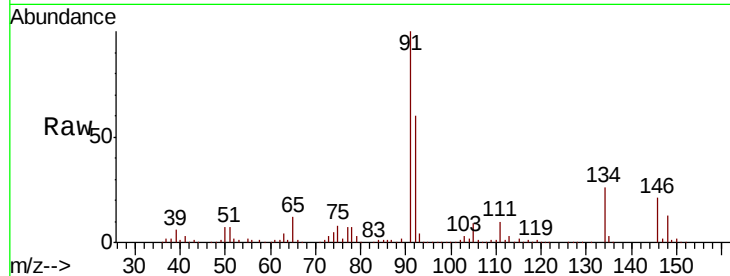




#89
n-Butylbenzene
Concen: 50.877 ug/l
RT: 14.80 min Scan# 1359
Delta R.T. 0.01 min
Lab File: VD061313.D
Acq: 25 Mar 2019 20:53

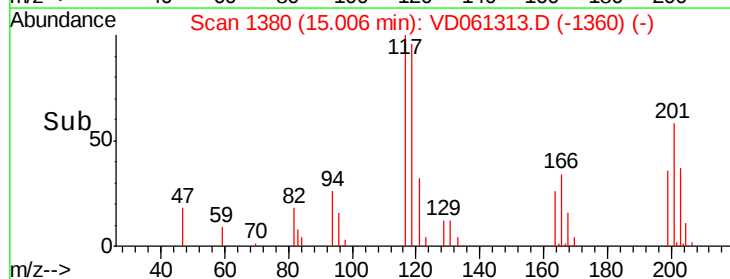
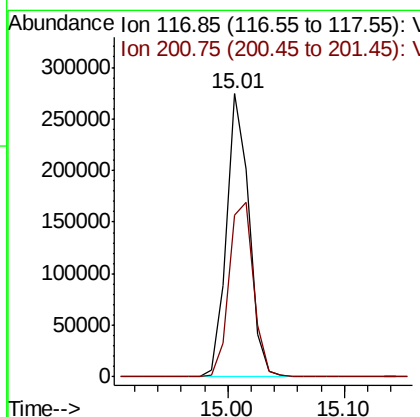
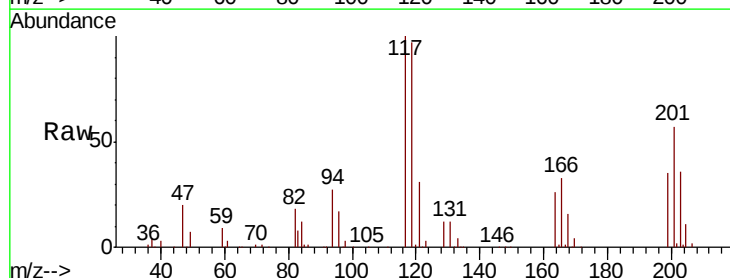
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

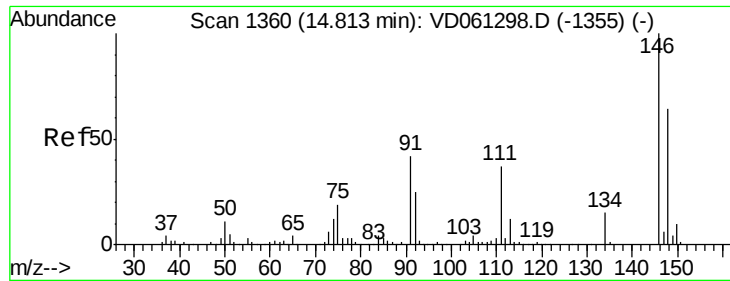
Tot Ion: 91 Resp: 1197140
Ion Ratio Lower Upper
91 100
92 60.4 30.9 92.7
134 25.9 11.7 35.0



#90
Hexachloroethane
Concen: 51.605 ug/l
RT: 15.01 min Scan# 1380
Delta R.T. -0.00 min
Lab File: VD061313.D
Acq: 25 Mar 2019 20:53

Tgt Ion: 117 Resp: 366695
Ion Ratio Lower Upper
117 100
201 57.4 34.0 101.8

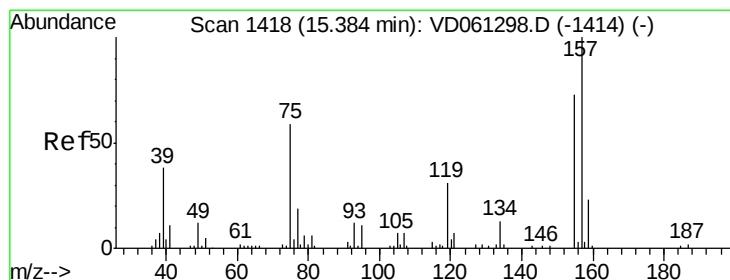
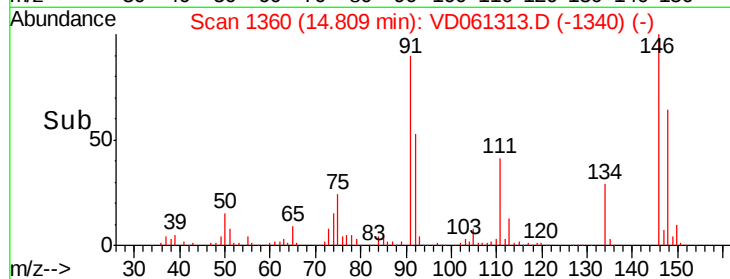
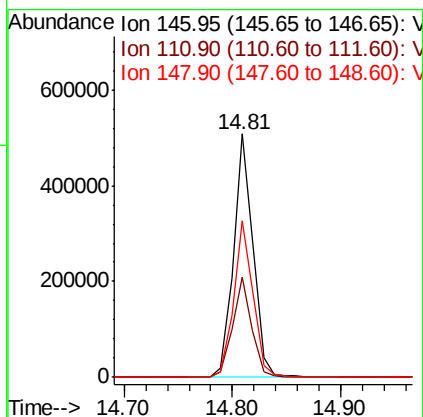
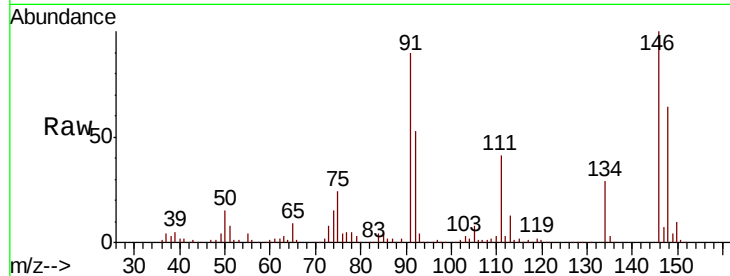




#91
 1,2-Dichlorobenzene
 Concen: 54.238 ug/l
 RT: 14.81 min Scan# 1360
 Delta R.T. -0.00 min
 Lab File: VD061313.D
 Acq: 25 Mar 2019 20:53

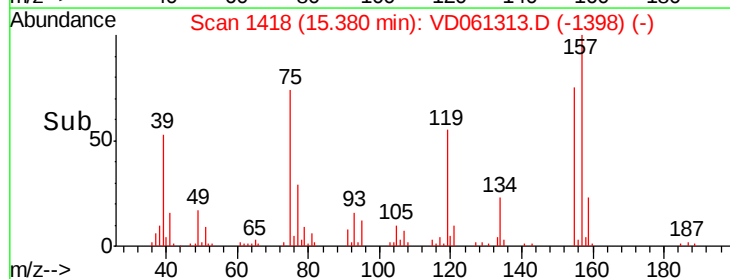
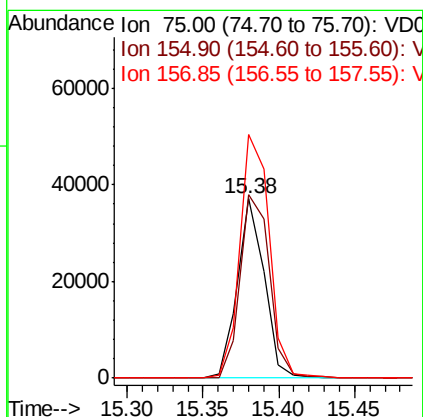
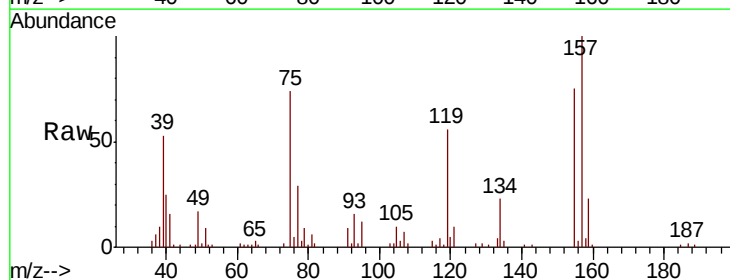
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

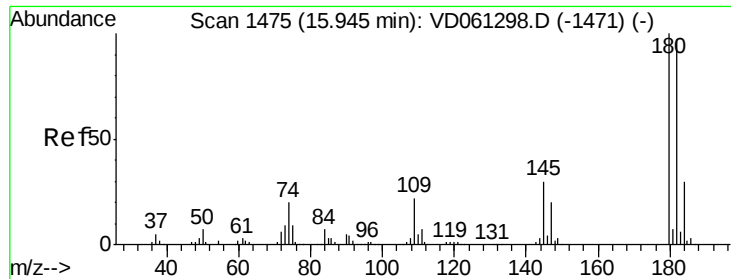
Tot Ion:146 Resp: 634574
 Ion Ratio Lower Upper
 146 100
 111 41.1 18.3 54.8
 148 64.3 31.9 95.7



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 63.490 ug/l
 RT: 15.38 min Scan# 1418
 Delta R.T. -0.00 min
 Lab File: VD061313.D
 Acq: 25 Mar 2019 20:53

Tgt Ion: 75 Resp: 45562
 Ion Ratio Lower Upper
 75 100
 155 102.2 61.9 185.7
 157 135.9 84.4 253.2

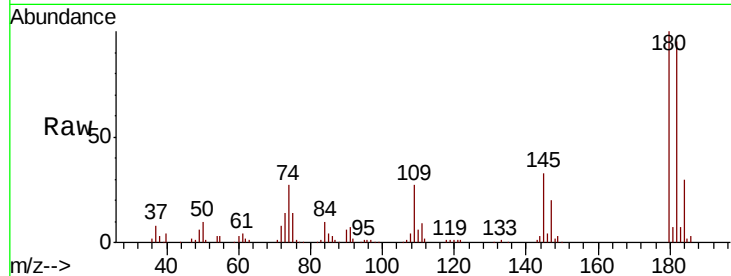




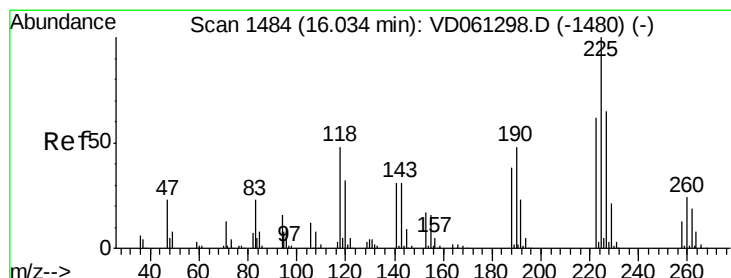
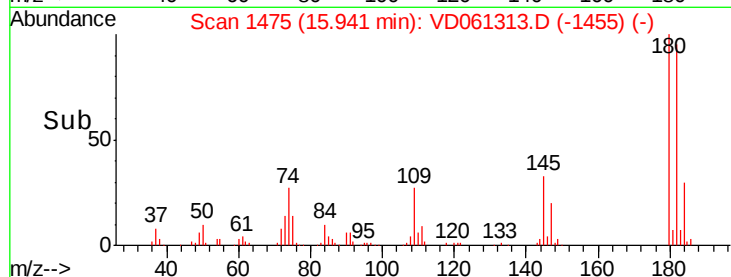
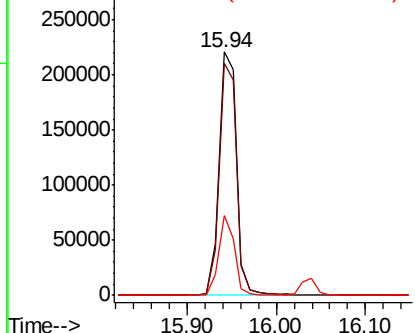
#93
 1,2,4-Trichlorobenzene
 Concen: 56.339 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. -0.00 min
 Lab File: VD061313.D
 Acq: 25 Mar 2019 20:53

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Tot Ion:180 Resp: 304423
 Ion Ratio Lower Upper
 180 100
 182 95.3 48.3 144.9
 145 32.7 14.8 44.4

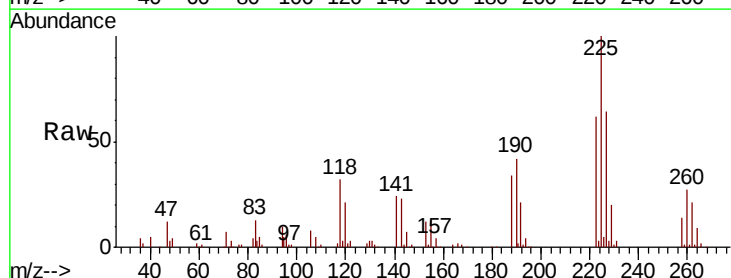


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

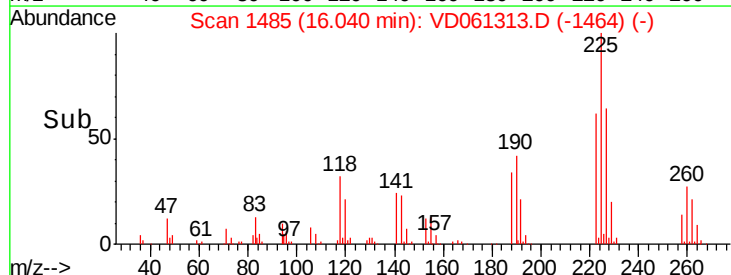
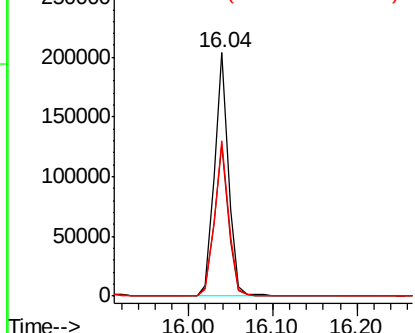


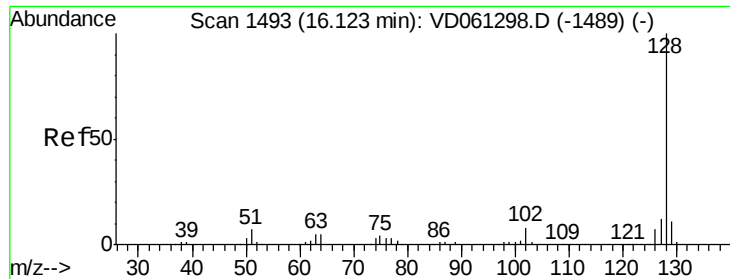
#94
 Hexachlorobutadiene
 Concen: 54.270 ug/l
 RT: 16.04 min Scan# 1485
 Delta R.T. 0.01 min
 Lab File: VD061313.D
 Acq: 25 Mar 2019 20:53

Tgt Ion:225 Resp: 236285
 Ion Ratio Lower Upper
 225 100
 223 62.3 30.9 92.8
 227 63.9 32.6 97.7



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

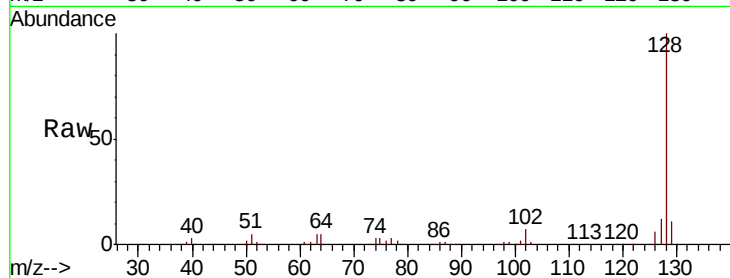




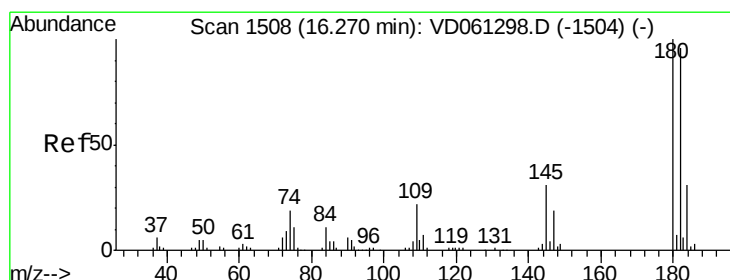
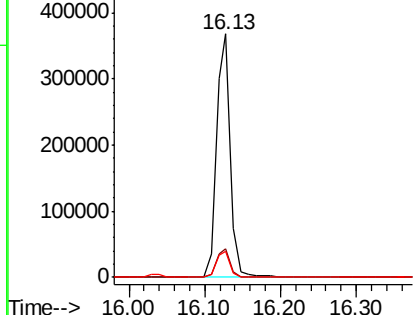
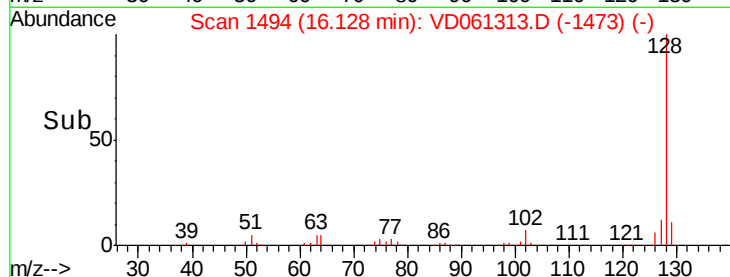
#95
Naphthalene
Concen: 60.420 ug/l
RT: 16.13 min Scan# 1494
Delta R.T. 0.01 min
Lab File: VD061313.D
Acq: 25 Mar 2019 20:53

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion:128 Resp: 476362
Ion Ratio Lower Upper
128 100
127 11.9 9.8 14.6
129 10.8 8.6 12.8

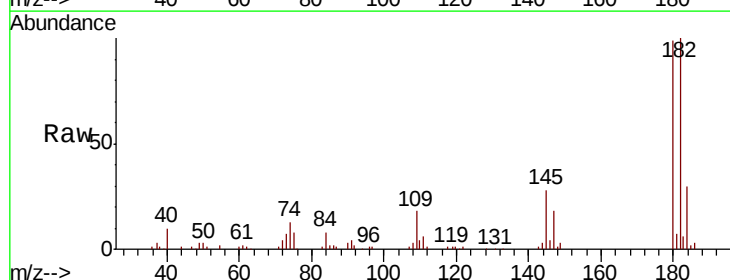


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 48.955 ug/l
RT: 16.28 min Scan# 1509
Delta R.T. 0.01 min
Lab File: VD061313.D
Acq: 25 Mar 2019 20:53

Tgt Ion:180 Resp: 123548
Ion Ratio Lower Upper
180 100
182 100.7 48.0 144.2
145 27.8 15.4 46.4



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

