

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040119\
 Data File : VD061467.D
 Acq On : 1 Apr 2019 14:36
 Operator : VA/AP
 Sample : VD0401SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 02 01:17:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 09:22:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	711600	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.22	114	1283490	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.37	117	1027934	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.51	152	465746	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	336426	55.34	ug/l	0.02
Spiked Amount			Recovery	=	110.68%	
35) Dibromofluoromethane	6.93	113	528254	53.86	ug/l	0.03
Spiked Amount			Recovery	=	107.72%	
50) Toluene-d8	10.41	98	1117484	47.50	ug/l	0.02
Spiked Amount			Recovery	=	95.00%	
62) 4-Bromofluorobenzene	13.56	95	494177	54.78	ug/l	0.01
Spiked Amount			Recovery	=	109.56%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.59	85	157075	20.669	ug/l	99
3) Chloromethane	1.77	50	135414	21.848	ug/l	98
4) Vinyl Chloride	1.86	62	121510	21.352	ug/l	99
5) Bromomethane	2.16	94	21006	18.615	ug/l #	96
6) Chloroethane	2.27	64	29999	17.976	ug/l	96
7) Trichlorofluoromethane	2.54	101	181762	21.965	ug/l	97
8) Diethyl Ether	2.89	74	56089	21.052	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.16	101	195626	21.989	ug/l	97
10) Methyl Iodide	3.32	142	229601	19.266	ug/l	99
11) Tert butyl alcohol	4.08	59	38961	102.917	ug/l	98
12) 1,1-Dichloroethene	3.14	96	167543	21.935	ug/l	96
13) Acrolein	3.04	56	32112	97.340	ug/l	97
14) Allyl chloride	3.63	41	240066	22.534	ug/l	99
15) Acrylonitrile	4.21	53	143829	109.465	ug/l	90
16) Acetone	3.23	43	165699	106.037	ug/l	96
17) Carbon Disulfide	3.39	76	553038	22.285	ug/l	99
18) Methyl Acetate	3.65	43	71531	21.771	ug/l	94
19) Methyl tert-butyl Ether	4.25	73	286542	21.672	ug/l	100
20) Methylene Chloride	3.82	84	205062	22.364	ug/l	98
21) trans-1,2-Dichloroethene	4.23	96	184716	22.400	ug/l	98
22) Diisopropyl ether	5.13	45	494294	21.926	ug/l	96
23) Vinyl Acetate	5.06	43	1359010	110.977	ug/l	98
24) 1,1-Dichloroethane	4.99	63	287010	21.663	ug/l	99
25) 2-Butanone	6.07	43	200960	102.235	ug/l	100
26) 2,2-Dichloropropane	6.04	77	239985	22.786	ug/l	97
27) cis-1,2-Dichloroethene	6.05	96	200613	22.204	ug/l	94
28) Bromochloromethane	6.44	49	113175	21.161	ug/l	99
29) Tetrahydrofuran	6.45	42	108313	113.684	ug/l	98
30) Chloroform	6.67	83	315307	23.032	ug/l	95
31) Cyclohexane	6.96	56	255231	24.378	ug/l	98
32) 1,1,1-Trichloroethane	6.87	97	271750	22.501	ug/l	95
36) 1,1-Dichloropropene	7.15	75	231205	20.640	ug/l	97
37) Ethyl Acetate	6.19	43	103192	21.540	ug/l	98
38) Carbon Tetrachloride	7.12	117	260330	20.224	ug/l	99

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Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 02 01:17:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 09:22:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.86	83	261637	22.426	ug/l	97
40) Benzene	7.46	78	596449	21.215	ug/l	96
41) Methacrylonitrile	6.44	41	121216	21.639	ug/l #	92
42) 1,2-Dichloroethane	7.58	62	186637	22.193	ug/l	99
43) Isopropyl Acetate	9.24	43	139046	19.948	ug/l	100
44) Trichloroethene	8.54	130	215808	20.627	ug/l	99
45) 1,2-Dichloropropane	8.94	63	142219	19.950	ug/l	95
46) Dibromomethane	9.06	93	100214	20.886	ug/l	93
47) Bromodichloromethane	9.37	83	221719	20.588	ug/l	100
48) Methyl methacrylate	9.12	41	85206	22.149	ug/l	97
49) 1,4-Dioxane	9.08	88	18444	434.676	ug/l	91
51) 4-Methyl-2-Pentanone	10.30	43	441219	104.041	ug/l	99
52) Toluene	10.51	92	368362	21.477	ug/l	98
53) t-1,3-Dichloropropene	10.91	75	194274	19.855	ug/l	98
54) cis-1,3-Dichloropropene	10.03	75	249161	20.913	ug/l	96
55) 1,1,2-Trichloroethane	11.19	97	131509	21.924	ug/l	97
56) Ethyl methacrylate	11.04	69	124507	19.322	ug/l	96
57) 1,3-Dichloropropane	11.40	76	190855	21.648	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.86	63	350832	111.798	ug/l	95
59) 2-Hexanone	11.53	43	326913	106.396	ug/l	100
60) Dibromochloromethane	11.69	129	180275	19.495	ug/l	99
61) 1,2-Dibromoethane	11.81	107	147735	21.270	ug/l	98
64) Tetrachloroethene	11.26	164	168218	20.851	ug/l	98
65) Chlorobenzene	12.40	112	452989	21.563	ug/l	97
66) 1,1,1,2-Tetrachloroethane	12.52	131	181112	22.266	ug/l	99
67) Ethyl Benzene	12.53	91	761226	23.740	ug/l	99
68) m/p-Xylenes	12.67	106	482064	39.688	ug/l	98
69) o-Xylene	13.05	106	262841	22.299	ug/l	98
70) Styrene	13.07	104	443232	21.571	ug/l	97
71) Bromoform	13.23	173	102950	19.966	ug/l	97
73) Isopropylbenzene	13.40	105	719850	22.207	ug/l	99
74) N-amyl acetate	13.26	43	183178	20.286	ug/l	98
75) 1,1,2,2-Tetrachloroethane	13.70	83	137476	20.105	ug/l	97
76) 1,2,3-Trichloropropane	13.74	75	136875	20.345	ug/l	96
77) Bromobenzene	13.67	156	195239	20.317	ug/l	90
78) n-propylbenzene	13.78	91	849619	21.418	ug/l	99
79) 2-Chlorotoluene	13.83	91	469328	21.789	ug/l	93
80) 1,3,5-Trimethylbenzene	13.93	105	579005	23.021	ug/l	99
81) trans-1,4-Dichloro-2-buten	13.47	75	39877	19.440	ug/l	89
82) 4-Chlorotoluene	13.94	91	548517	23.421	ug/l	89
83) tert-Butylbenzene	14.19	119	670778	21.341	ug/l	95
84) 1,2,4-Trimethylbenzene	14.24	105	564472	20.731	ug/l	100
85) sec-Butylbenzene	14.37	105	686908	20.572	ug/l	99
86) p-Isopropyltoluene	14.49	119	631057	22.350	ug/l	98
87) 1,3-Dichlorobenzene	14.45	146	310038	19.052	ug/l	98
88) 1,4-Dichlorobenzene	14.53	146	336740	21.219	ug/l	95
89) n-Butylbenzene	14.80	91	576968	22.263	ug/l	99
90) Hexachloroethane	15.01	117	181909	22.805	ug/l	80
91) 1,2-Dichlorobenzene	14.81	146	302696	22.677	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	15.38	75	15893	19.817	ug/l	76

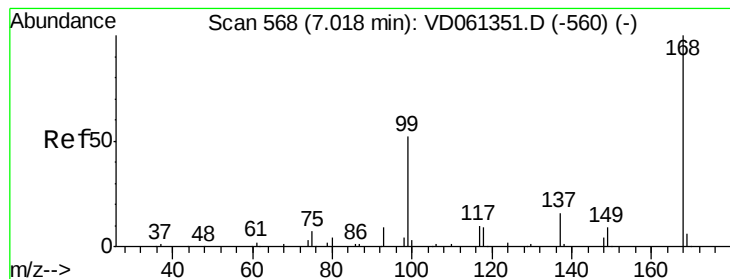
Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040119\
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ClientSampleId :

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
Quant Title : SW846 8260
QLast Update : Thu Mar 28 09:22:37 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	129426	21.285	ug/l	94
94) Hexachlorobutadiene	16.04	225	101218	21.302	ug/l	99
95) Naphthalene	16.12	128	194619	20.998	ug/l	99
96) 1,2,3-Trichlorobenzene	16.27	180	58984	22.044	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.03 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

Instrument :

MSVOA_D

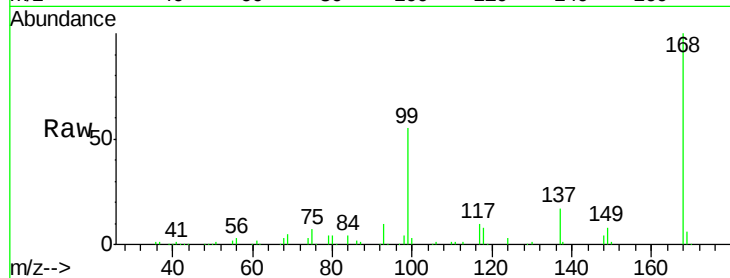
ClientSampleId :

Tot Ion:168 Resp: 711600

Ion Ratio Lower Upper

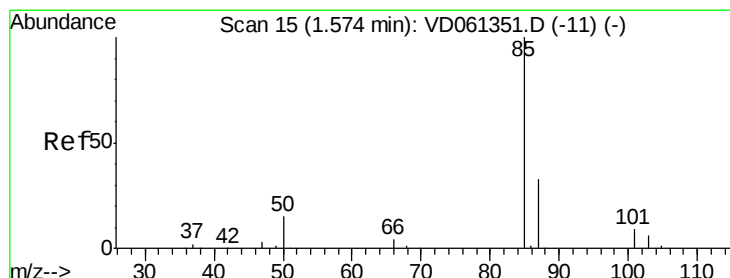
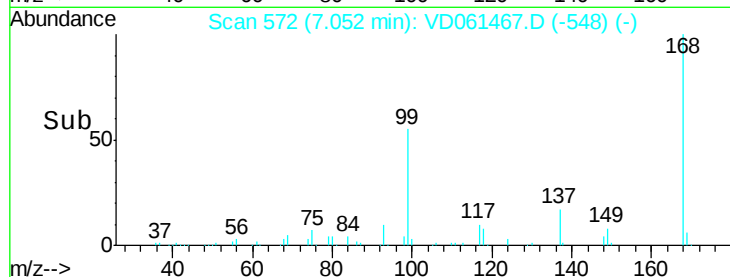
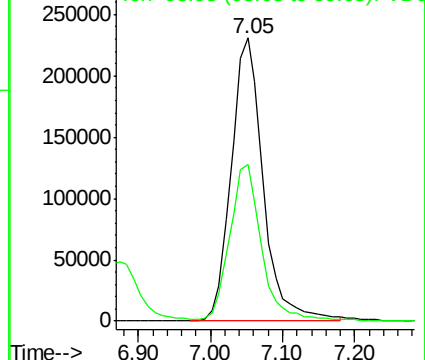
168 100

99 55.5 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 20.669 ug/l

RT: 1.59 min Scan# 17

Delta R.T. 0.01 min

Lab File: VD061467.D

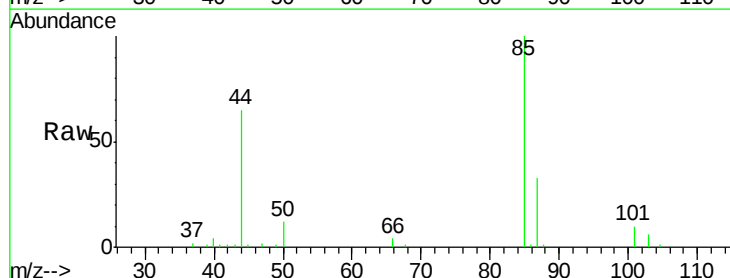
Acq: 1 Apr 2019 14:36

Tgt Ion: 85 Resp: 157075

Ion Ratio Lower Upper

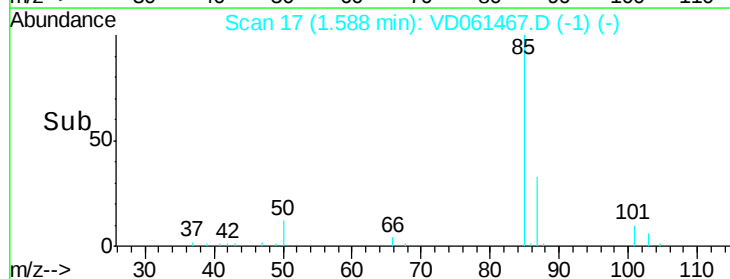
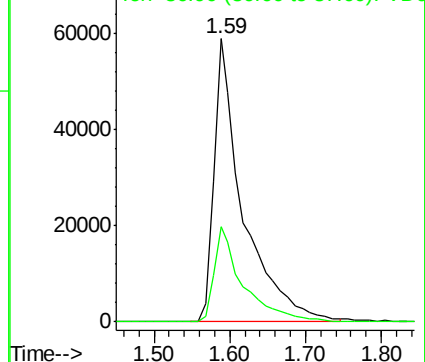
85 100

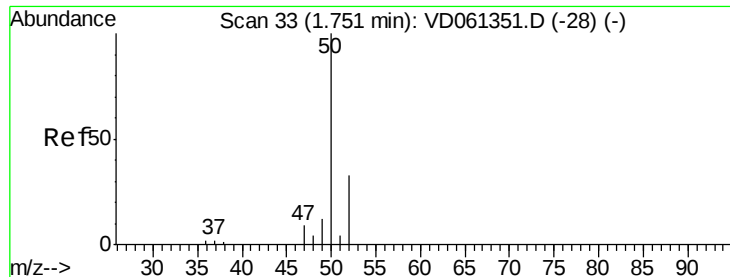
87 33.5 16.6 49.7



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 21.848 ug/l

RT: 1.77 min Scan# 35

Delta R.T. 0.01 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

Instrument :

MSVOA_D

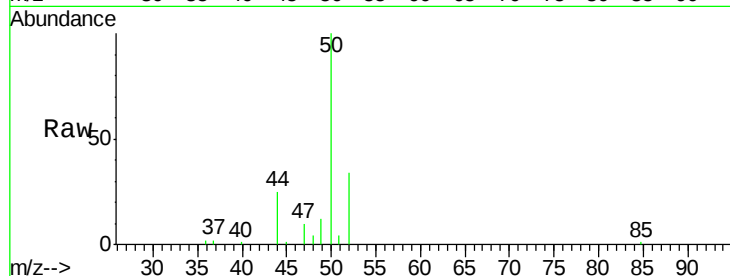
ClientSampleId :

Tot Ion: 50 Resp: 135414

Ion Ratio Lower Upper

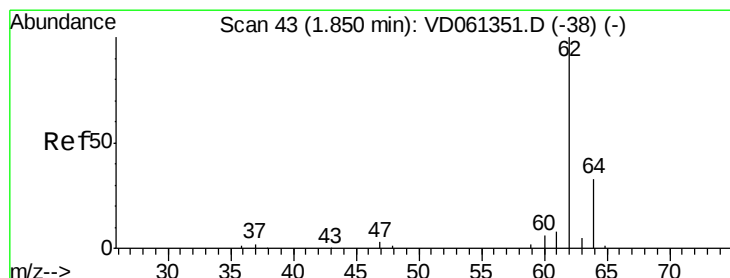
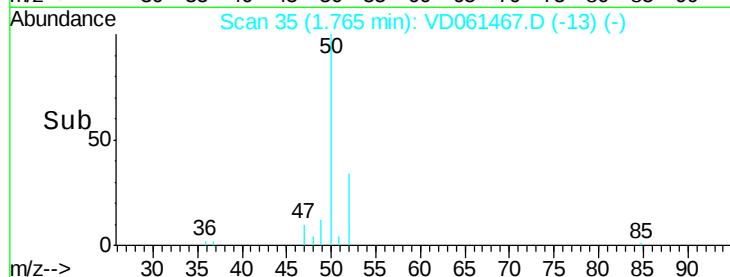
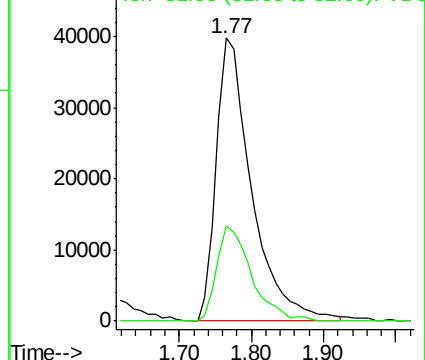
50 100

52 33.5 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 21.352 ug/l

RT: 1.86 min Scan# 45

Delta R.T. 0.01 min

Lab File: VD061467.D

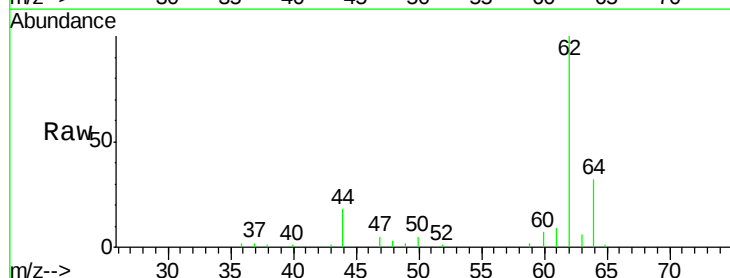
Acq: 1 Apr 2019 14:36

Tgt Ion: 62 Resp: 121510

Ion Ratio Lower Upper

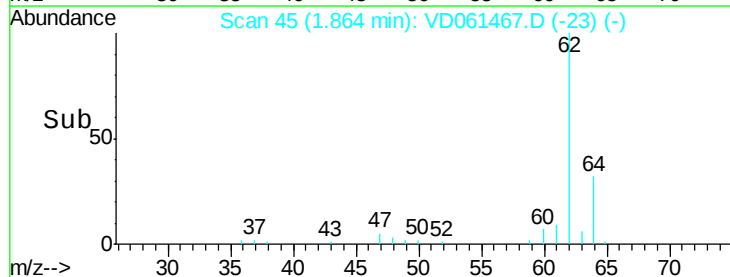
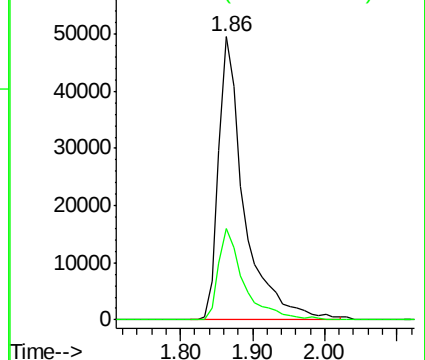
62 100

64 32.4 26.6 39.8



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 18.615 ug/l

RT: 2.16 min Scan# 75

Delta R.T. 0.01 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

Instrument :

MSVOA_D

ClientSampleId :

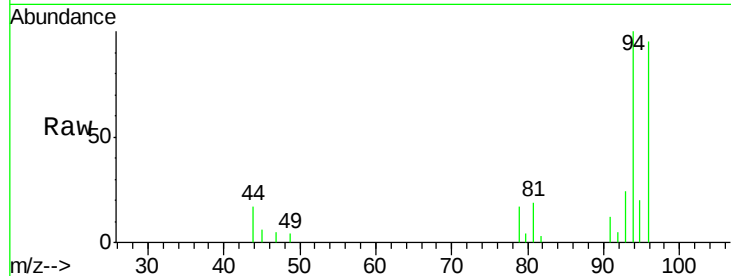
Tot Ion: 94 Resp: 21006

Ion Ratio Lower Upper

94 100

96 95.1 78.3 117.5

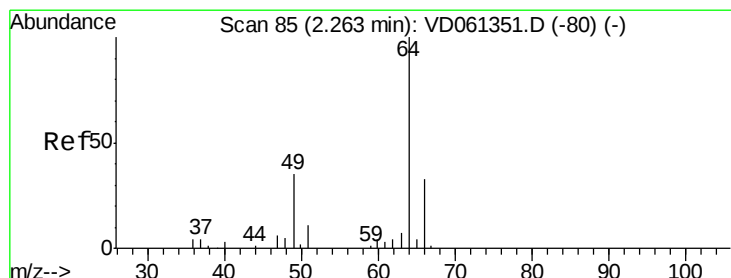
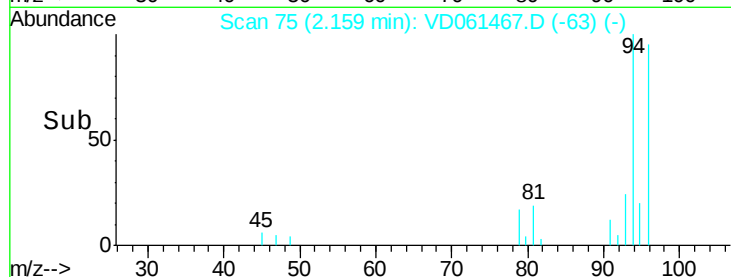
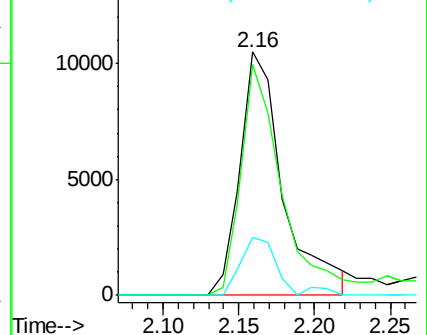
93 23.7 15.6 23.4#



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: 17.976 ug/l

RT: 2.27 min Scan# 86

Delta R.T. 0.00 min

Lab File: VD061467.D

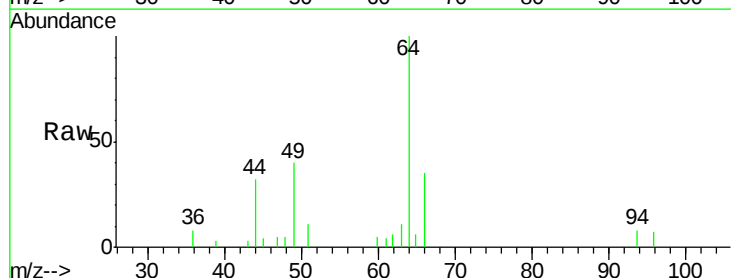
Acq: 1 Apr 2019 14:36

Tgt Ion: 64 Resp: 29999

Ion Ratio Lower Upper

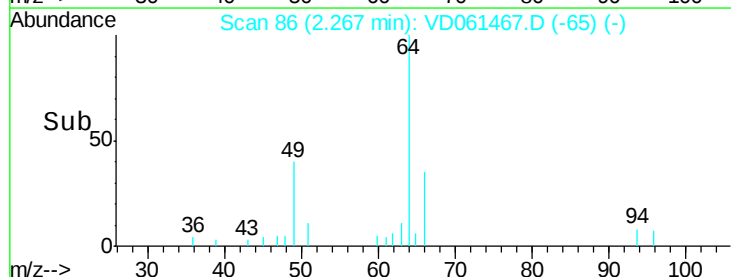
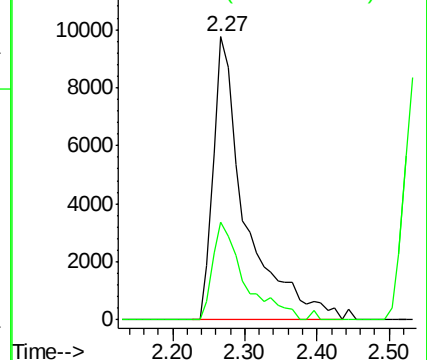
64 100

66 34.7 26.2 39.2



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



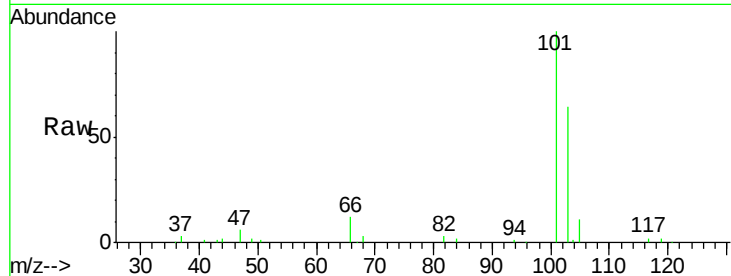


#7

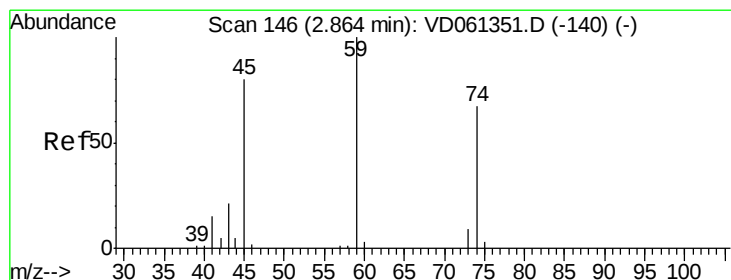
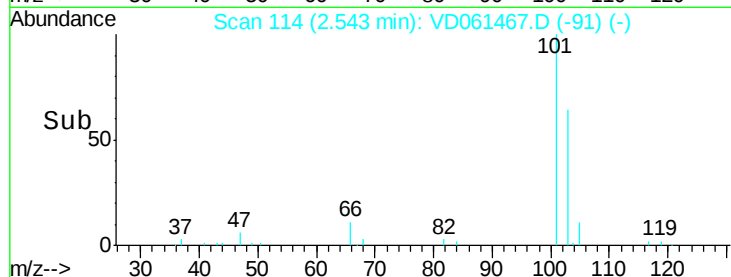
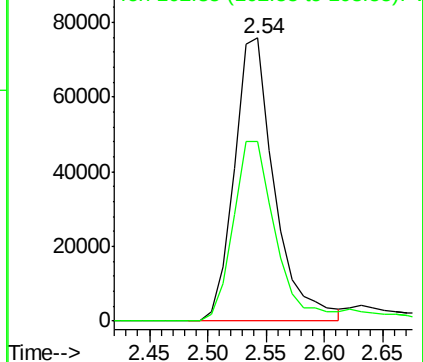
Trichlorofluoromethane
Concen: 21.965 ug/l
RT: 2.54 min Scan# 114
Delta R.T. 0.02 min
Lab File: VD061467.D
Acq: 1 Apr 2019 14:36

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:101 Resp: 181762
Ion Ratio Lower Upper
101 100
103 63.6 53.1 79.7



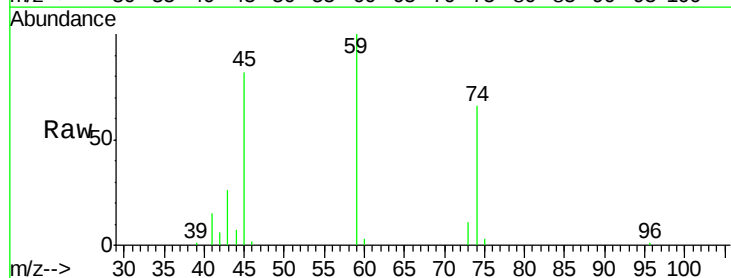
Abundance Ion 100.85 (100.55 to 101.55): V
Ion 102.85 (102.55 to 103.55): V



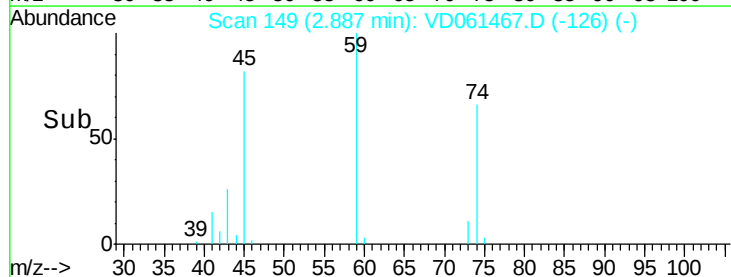
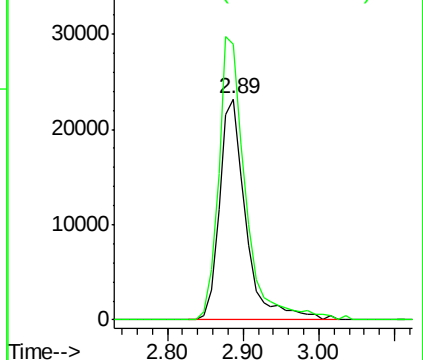
#8

Diethyl Ether
Concen: 21.052 ug/l
RT: 2.89 min Scan# 149
Delta R.T. 0.02 min
Lab File: VD061467.D
Acq: 1 Apr 2019 14:36

Tgt Ion: 74 Resp: 56089
Ion Ratio Lower Upper
74 100
45 124.6 59.7 179.1



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





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.989 ug/l

RT: 3.16 min Scan# 177

Delta R.T. 0.02 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

Instrument :

MSVOA_D

ClientSampled :

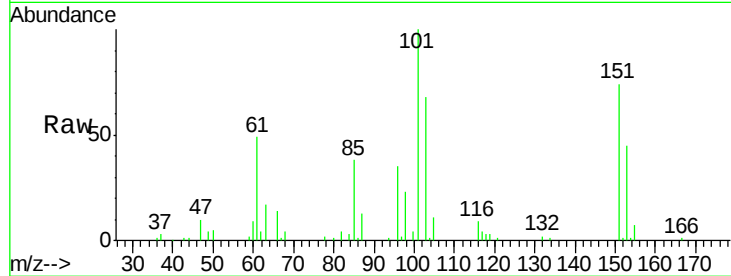
Tot Ion:101 Resp: 195626

Ion Ratio Lower Upper

101 100

85 38.1 29.4 44.0

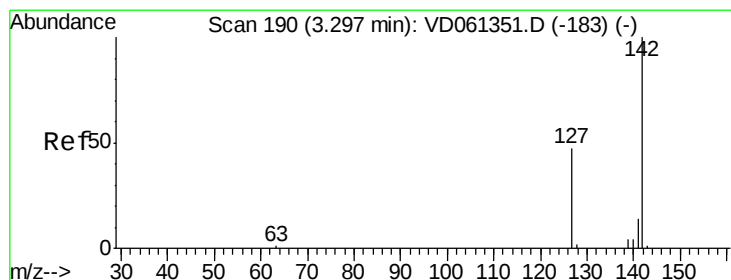
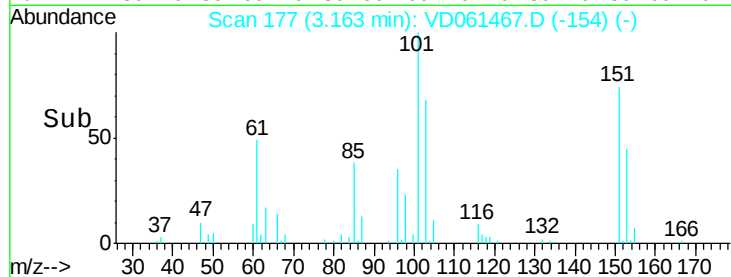
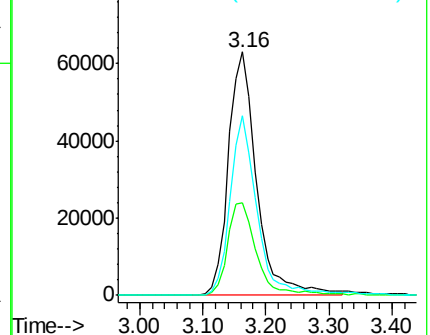
151 73.9 57.0 85.4



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: 19.266 ug/l

RT: 3.32 min Scan# 193

Delta R.T. 0.02 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

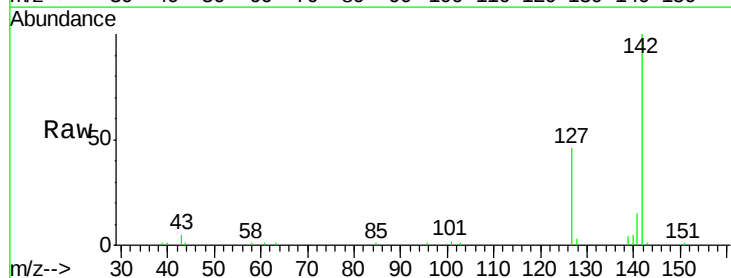
Tgt Ion:142 Resp: 229601

Ion Ratio Lower Upper

142 100

127 46.3 37.7 56.5

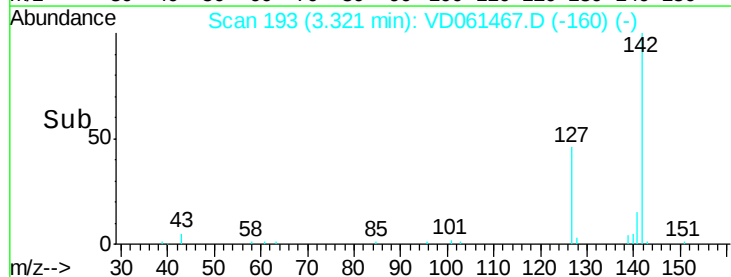
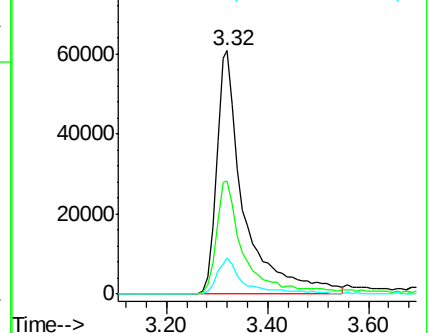
141 14.6 11.5 17.3

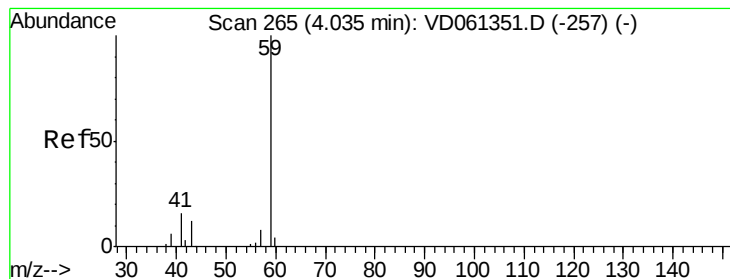


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



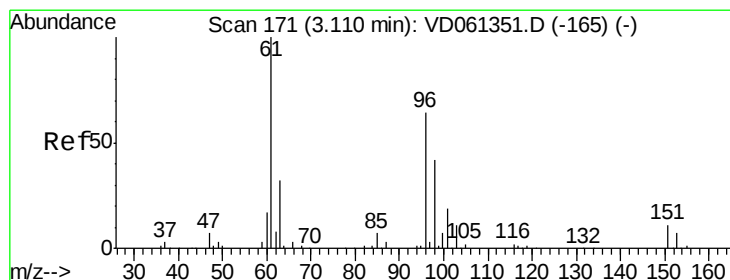
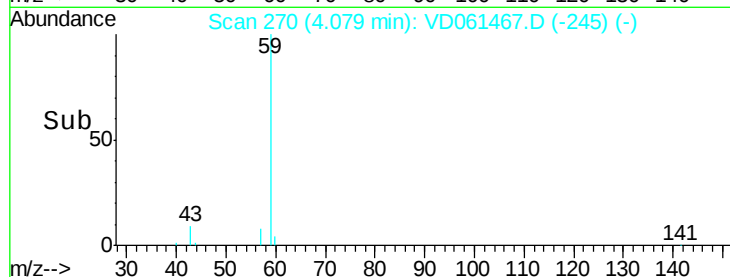
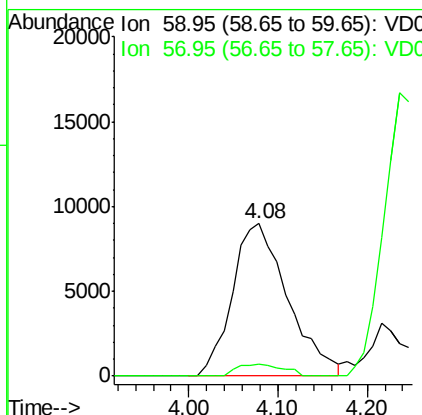
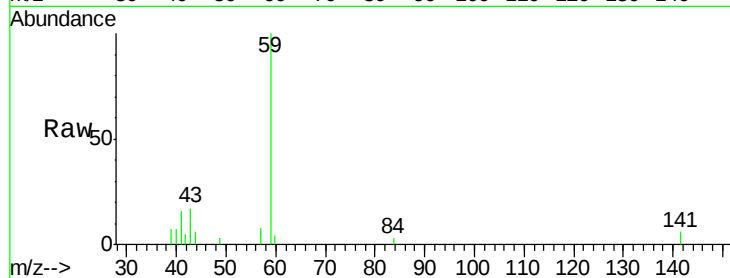


#11

Tert butyl alcohol
Concen: 102.917 ug/l
RT: 4.08 min Scan# 270
Delta R.T. 0.04 min
Lab File: VD061467.D
Acq: 1 Apr 2019 14:36

Instrument :
MSVOA_D
ClientSampleId :

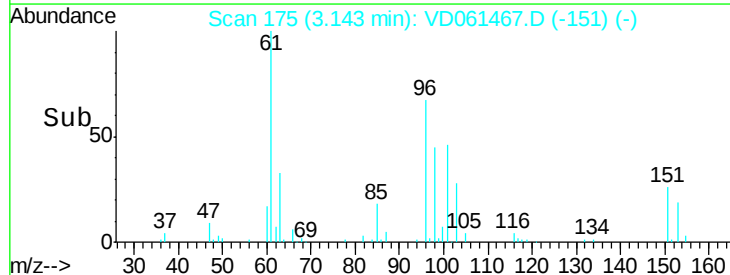
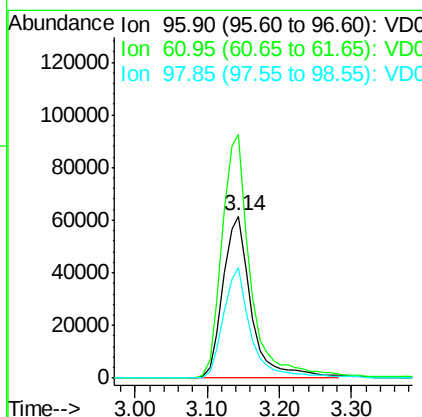
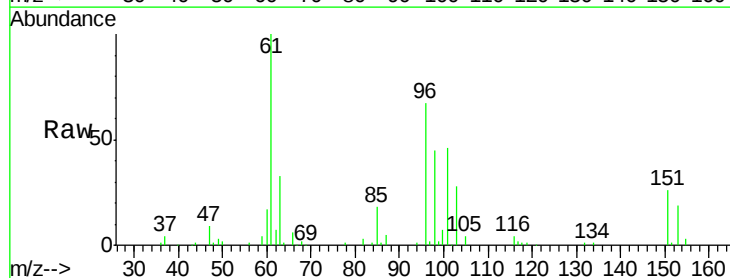
Tot Ion: 59 Resp: 38961
Ion Ratio Lower Upper
59 100
57 7.8 6.7 10.1

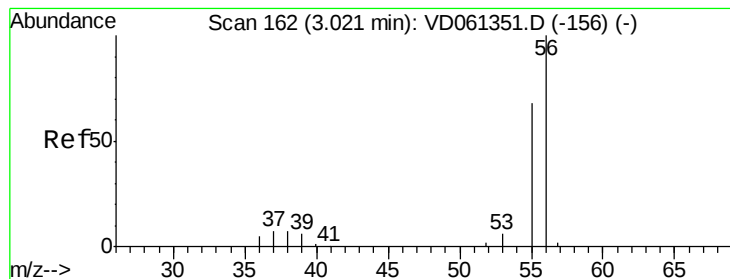


#12

1,1-Dichloroethene
Concen: 21.935 ug/l
RT: 3.14 min Scan# 175
Delta R.T. 0.03 min
Lab File: VD061467.D
Acq: 1 Apr 2019 14:36

Tgt Ion: 96 Resp: 167543
Ion Ratio Lower Upper
96 100
61 150.2 124.9 187.3
98 68.0 52.5 78.7





#13

Acrolein

Concen: 97.340 ug/l

RT: 3.04 min Scan# 165

Delta R.T. 0.02 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

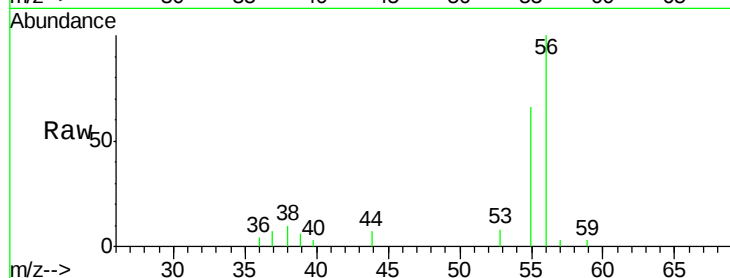
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 32112

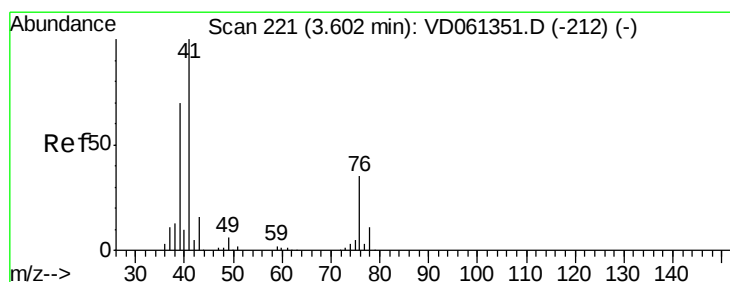
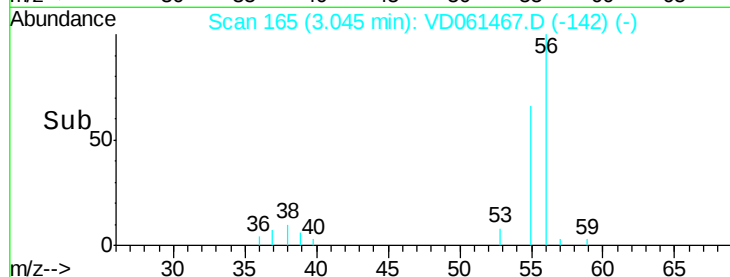
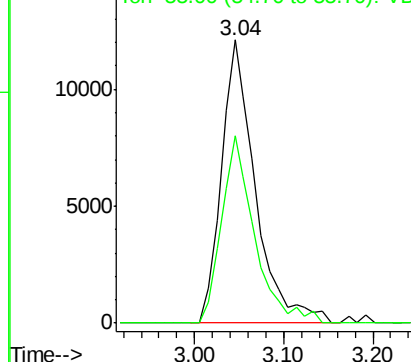
Ion Ratio Lower Upper

56 100

55 66.1 54.6 82.0



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 22.534 ug/l

RT: 3.63 min Scan# 224

Delta R.T. 0.02 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

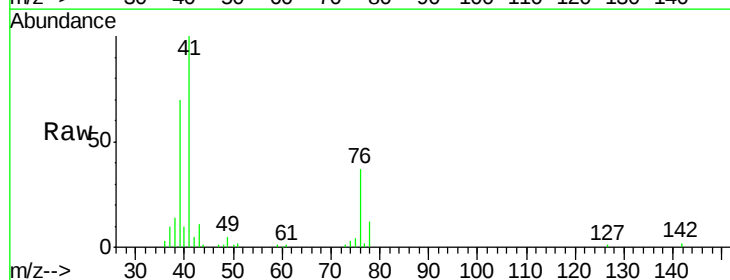
Tgt Ion: 41 Resp: 240066

Ion Ratio Lower Upper

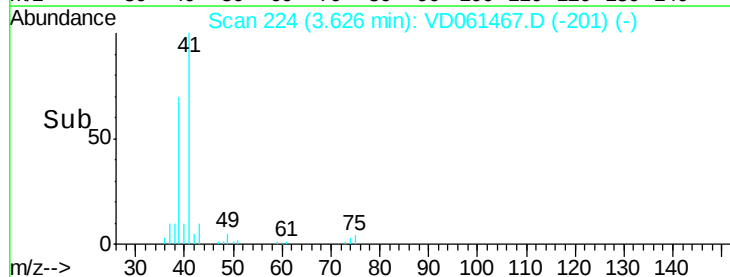
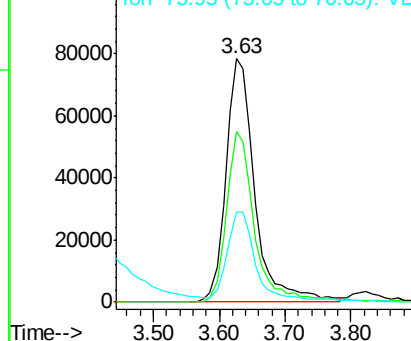
41 100

39 70.1 55.6 83.4

76 37.2 31.0 46.6



Abundance Ion 41.05 (40.75 to 41.75): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 75.95 (75.65 to 76.65): VDC

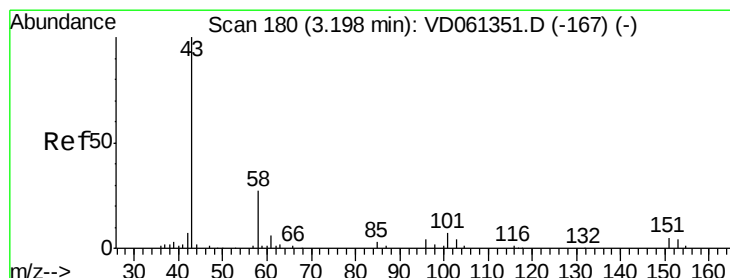
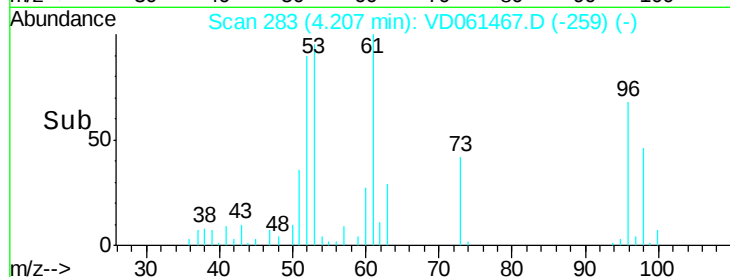
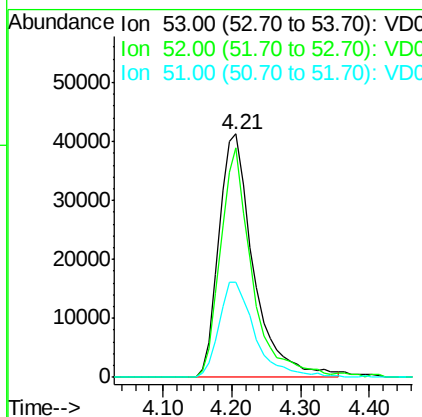
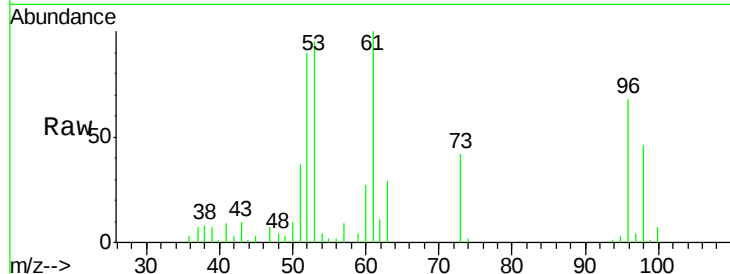




#15
Acrylonitrile
Concen: 109.465 ug/l
RT: 4.21 min Scan# 283
Delta R.T. 0.03 min
Lab File: VD061467.D
Acq: 1 Apr 2019 14:36

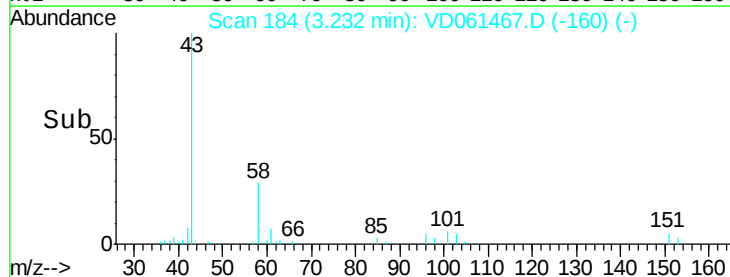
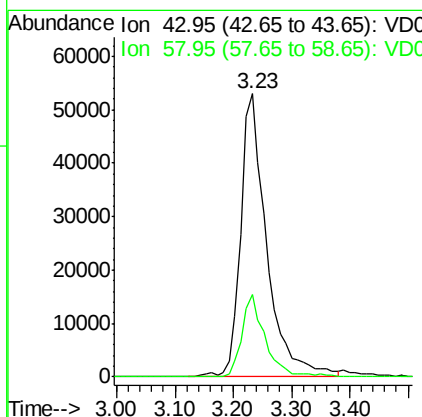
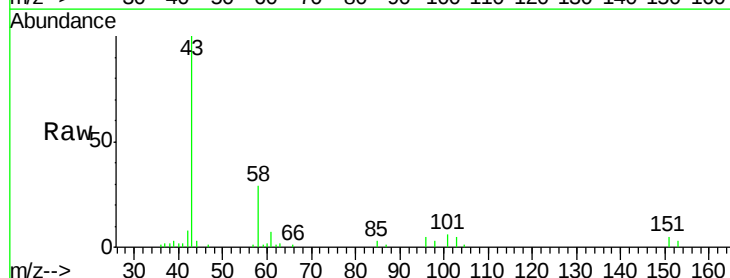
Instrument :
MSVOA_D
ClientSampled :

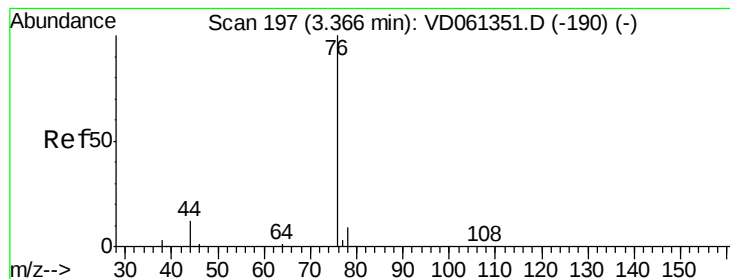
Tot Ion: 53 Resp: 143829
Ion Ratio Lower Upper
53 100
52 94.2 64.8 97.2
51 39.3 31.4 47.2



#16
Acetone
Concen: 106.037 ug/l
RT: 3.23 min Scan# 184
Delta R.T. 0.03 min
Lab File: VD061467.D
Acq: 1 Apr 2019 14:36

Tgt Ion: 43 Resp: 165699
Ion Ratio Lower Upper
43 100
58 29.1 21.5 32.3





#17

Carbon Disulfide

Concen: 22.285 ug/l

RT: 3.39 min Scan# 200

Delta R.T. 0.02 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

Instrument :

MSVOA_D

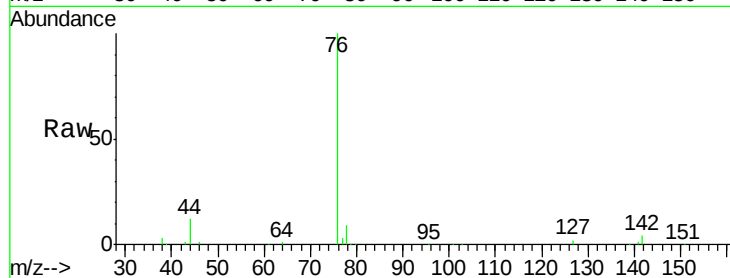
ClientSampleId :

Tot Ion: 76 Resp: 553038

Ion Ratio Lower Upper

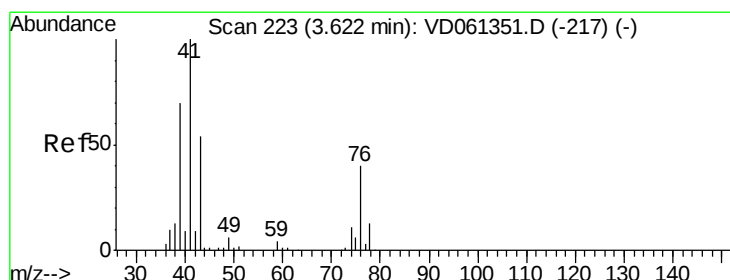
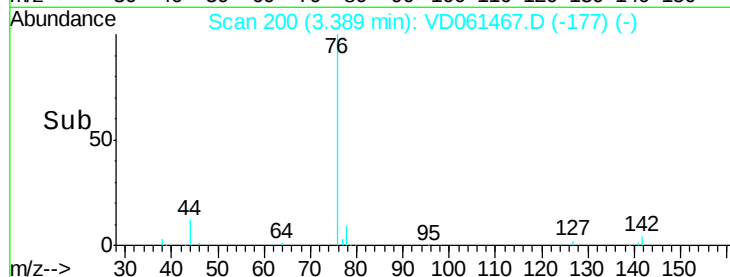
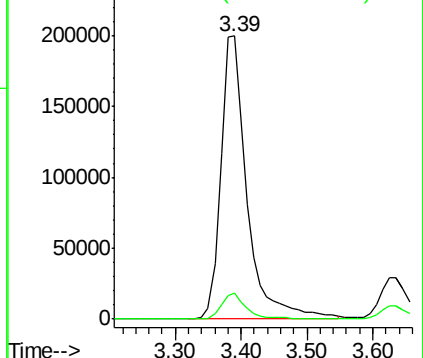
76 100

78 9.3 7.1 10.7



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 21.771 ug/l

RT: 3.65 min Scan# 226

Delta R.T. 0.02 min

Lab File: VD061467.D

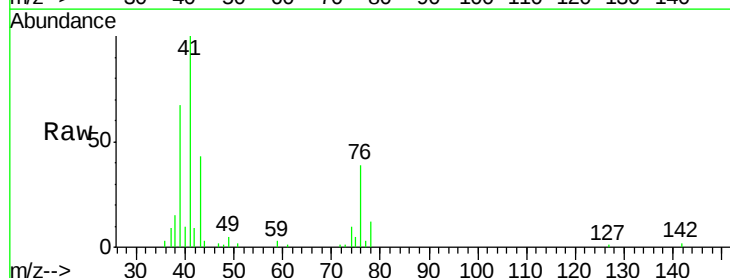
Acq: 1 Apr 2019 14:36

Tgt Ion: 43 Resp: 71531

Ion Ratio Lower Upper

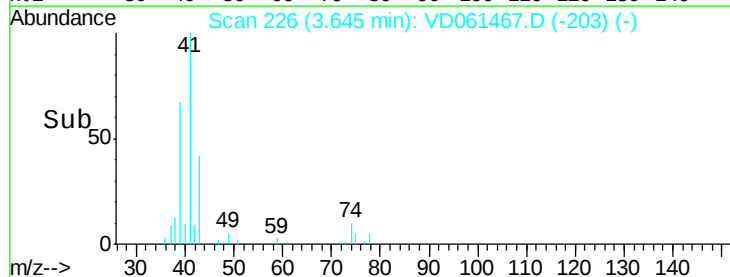
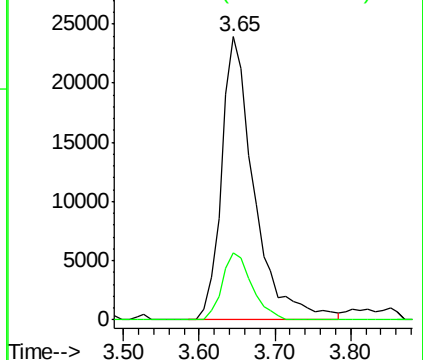
43 100

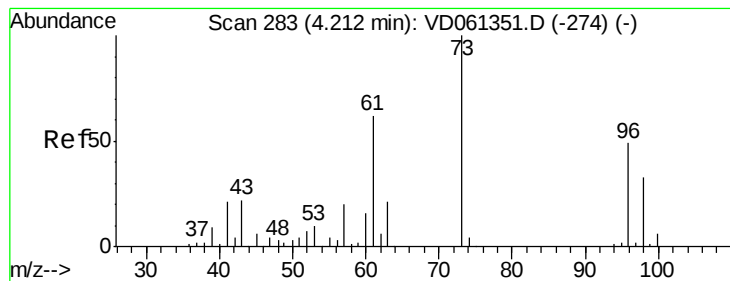
74 23.6 16.7 25.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC



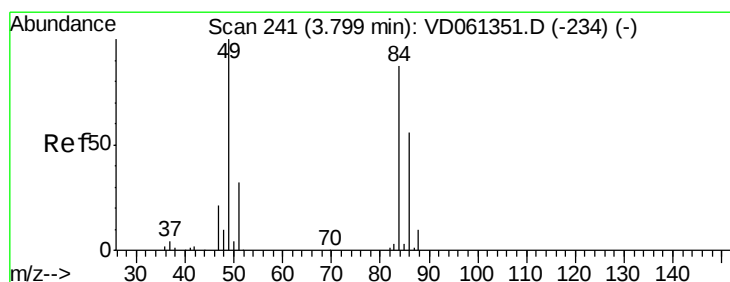
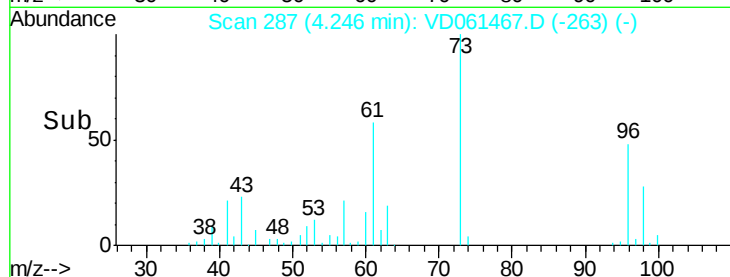
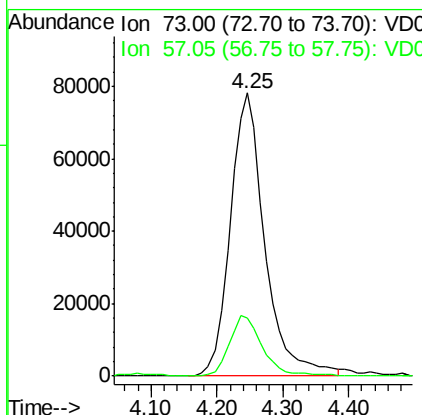
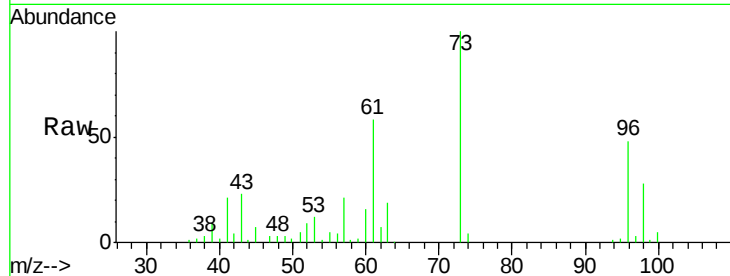


#19

Methyl tert-butyl Ether
 Concen: 21.672 ug/l
 RT: 4.25 min Scan# 287
 Delta R.T. 0.03 min
 Lab File: VD061467.D
 Acq: 1 Apr 2019 14:36

Instrument :
 MSVOA_D
 ClientSampled :

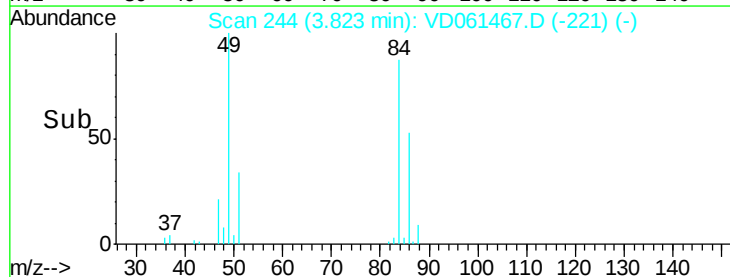
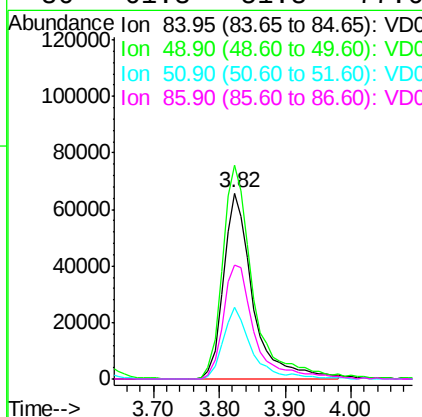
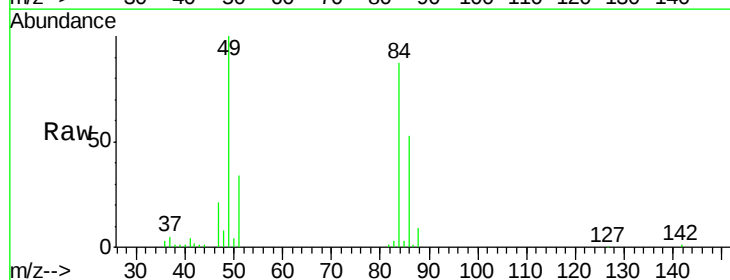
Tot Ion: 73 Resp: 286542
 Ion Ratio Lower Upper
 73 100
 57 20.7 16.4 24.6

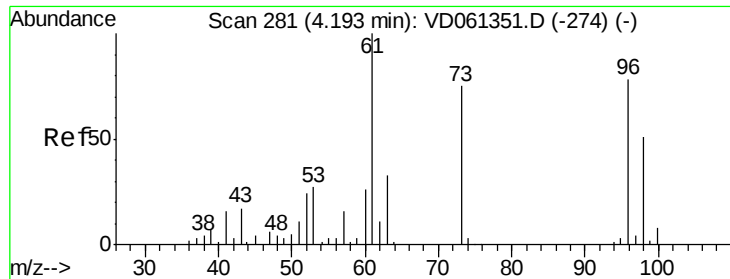


#20

Methylene Chloride
 Concen: 22.364 ug/l
 RT: 3.82 min Scan# 244
 Delta R.T. 0.02 min
 Lab File: VD061467.D
 Acq: 1 Apr 2019 14:36

Tgt Ion: 84 Resp: 205062
 Ion Ratio Lower Upper
 84 100
 49 115.0 91.8 137.8
 51 38.6 29.8 44.8
 86 61.3 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 22.400 ug/l

RT: 4.23 min Scan# 285

Delta R.T. 0.03 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

Instrument :

MSVOA_D

ClientSampleId :

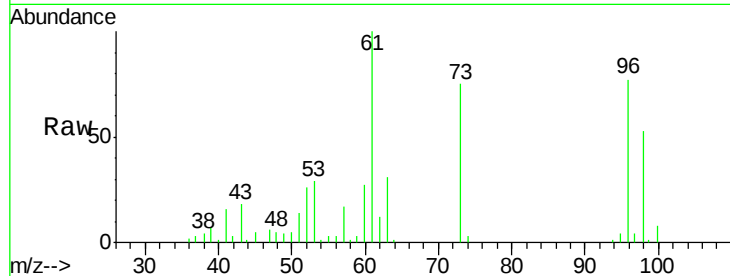
Tot Ion: 96 Resp: 184716

Ion Ratio Lower Upper

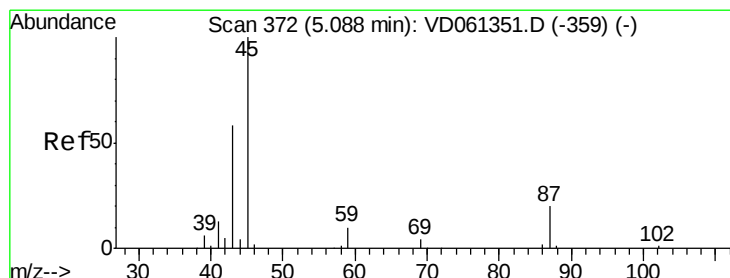
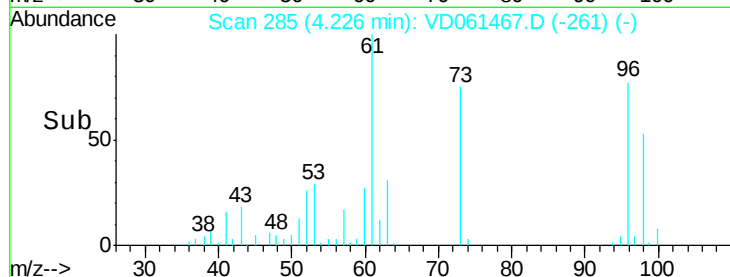
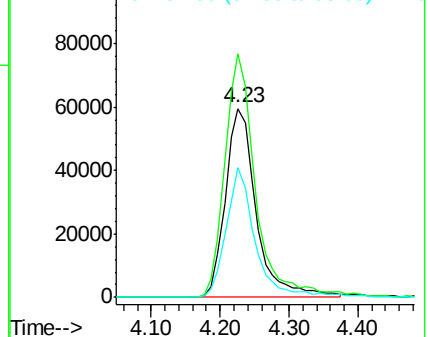
96 100

61 129.1 102.7 154.1

98 68.8 52.2 78.4



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



#22

Diisopropyl ether

Concen: 21.926 ug/l

RT: 5.13 min Scan# 377

Delta R.T. 0.04 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

Tgt Ion: 45 Resp: 494294

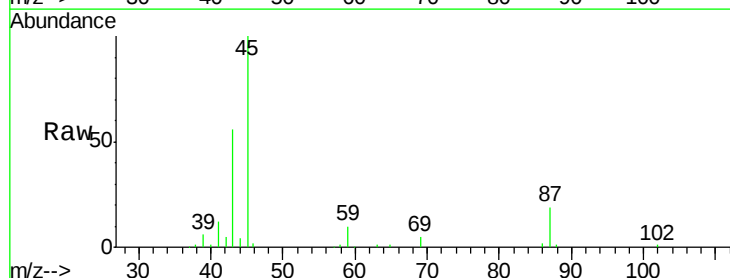
Ion Ratio Lower Upper

45 100

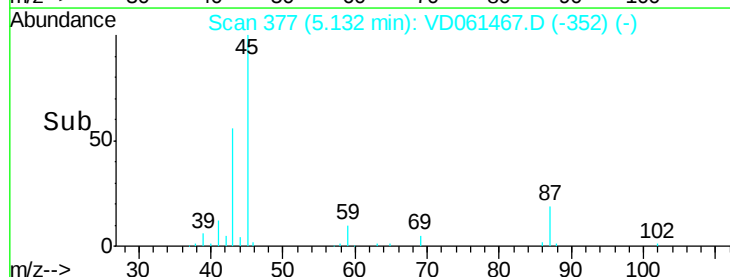
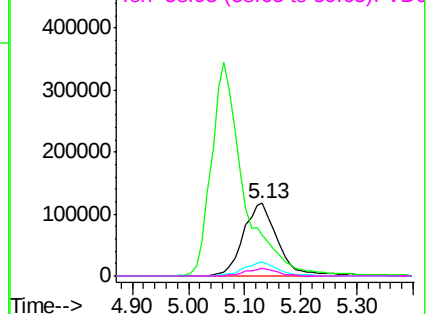
43 55.7 47.4 71.2

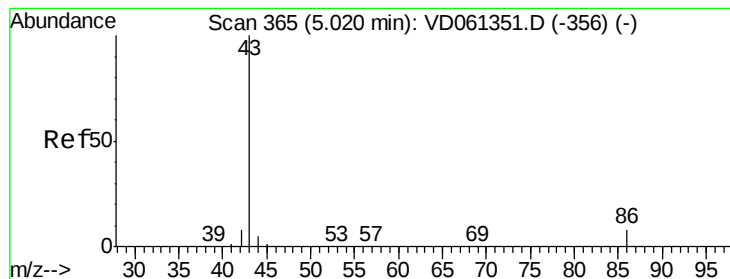
87 19.1 16.3 24.5

59 10.3 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: 110.977 ug/l

RT: 5.06 min Scan# 370

Delta R.T. 0.04 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

Instrument :

MSVOA_D

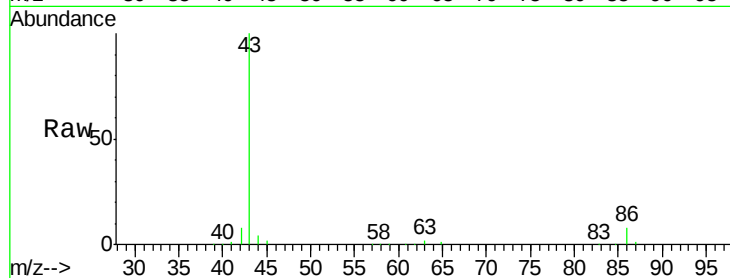
ClientSampleId :

Tot Ion: 43 Resp: 1359010

Ion Ratio Lower Upper

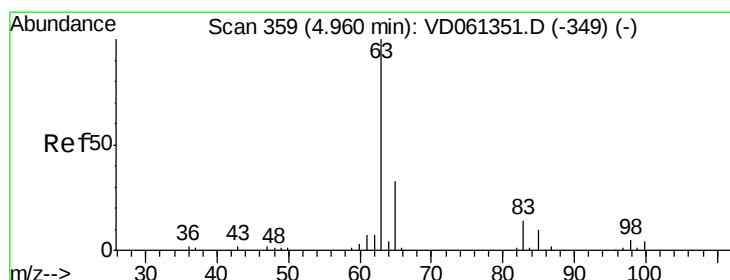
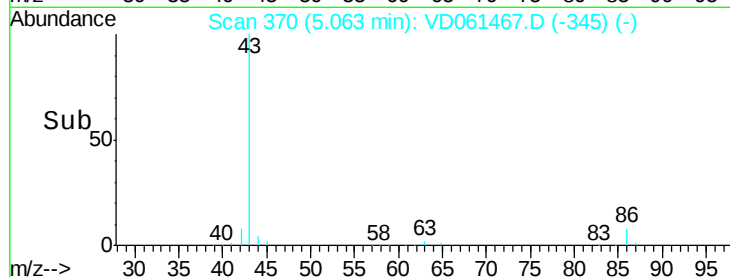
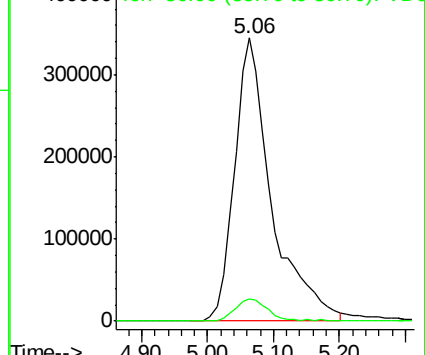
43 100

86 7.8 6.7 10.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 21.663 ug/l

RT: 4.99 min Scan# 363

Delta R.T. 0.03 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

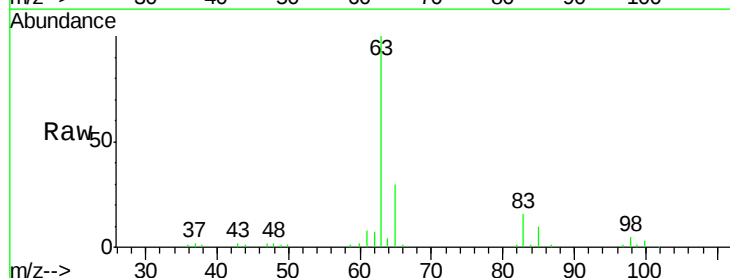
Tgt Ion: 63 Resp: 287010

Ion Ratio Lower Upper

63 100

98 5.5 2.6 8.0

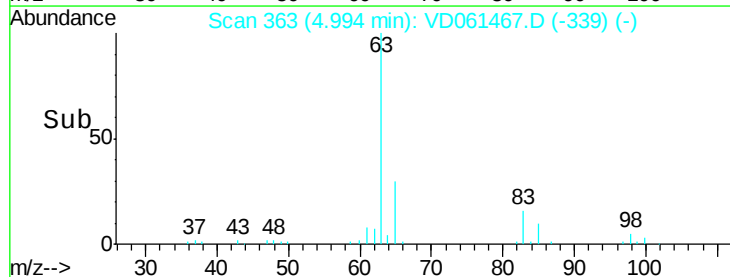
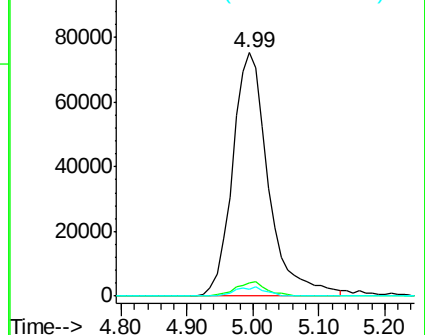
100 2.8 1.8 5.3

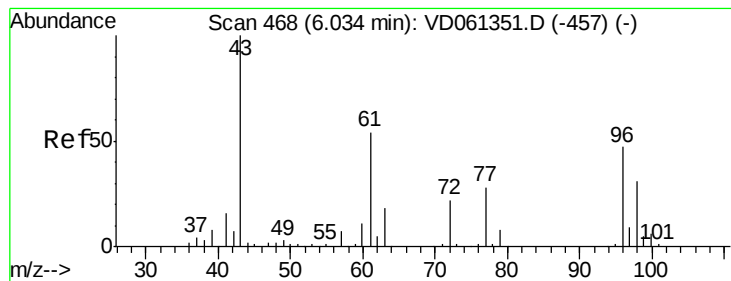


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 102.235 ug/l

RT: 6.07 min Scan# 472

Delta R.T. 0.03 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

Instrument :

MSVOA_D

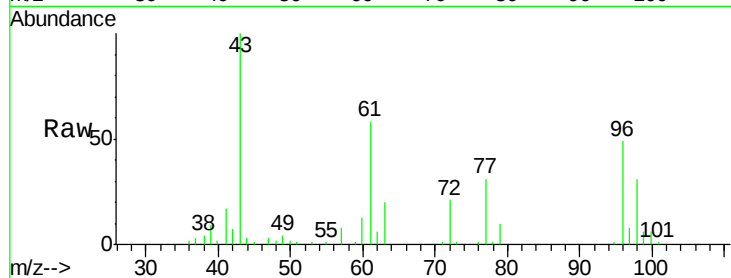
ClientSampleId :

Tot Ion: 43 Resp: 200960

Ion Ratio Lower Upper

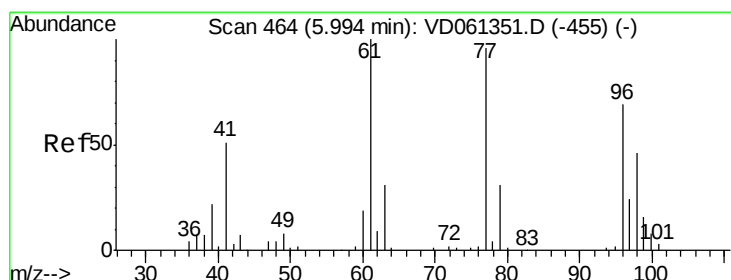
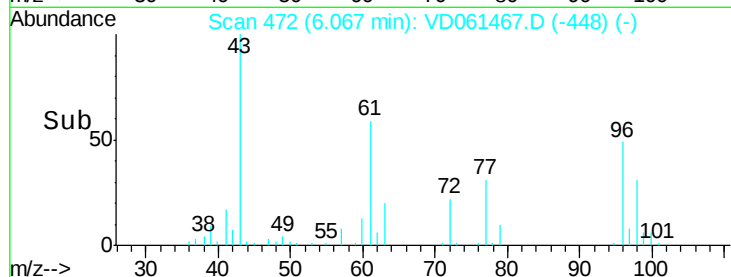
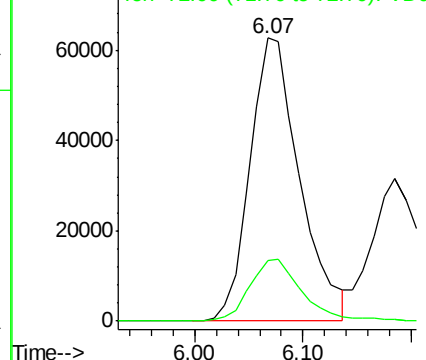
43 100

72 21.5 17.2 25.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 22.786 ug/l

RT: 6.04 min Scan# 469

Delta R.T. 0.04 min

Lab File: VD061467.D

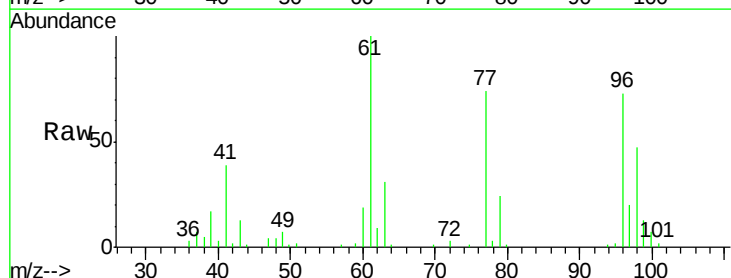
Acq: 1 Apr 2019 14:36

Tgt Ion: 77 Resp: 239985

Ion Ratio Lower Upper

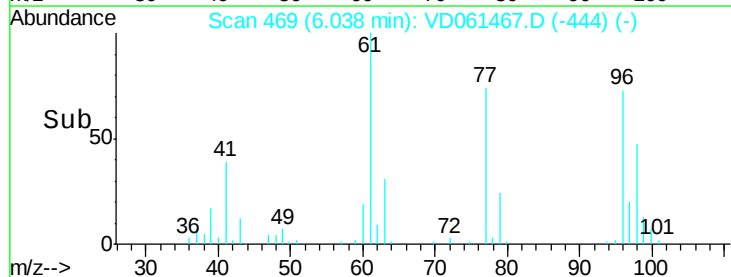
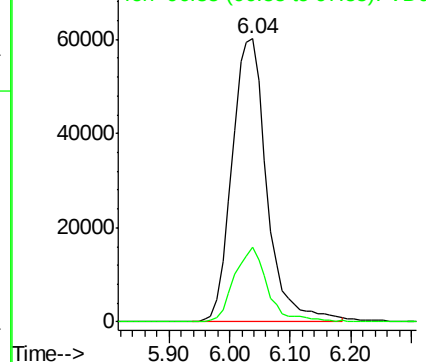
77 100

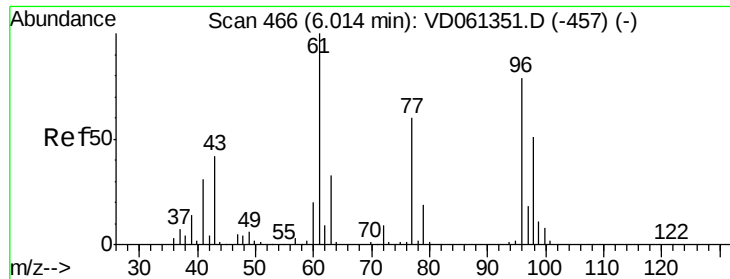
97 26.6 12.7 38.0



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



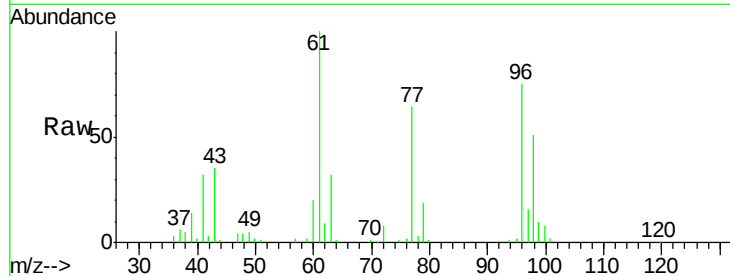


#27

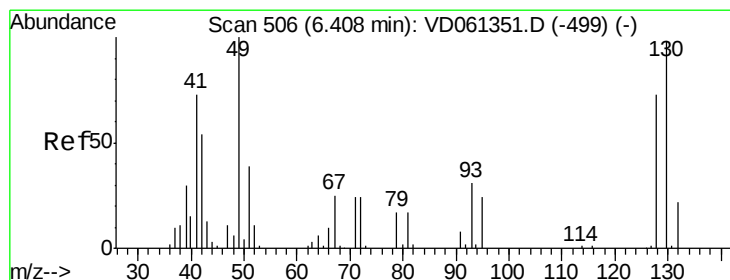
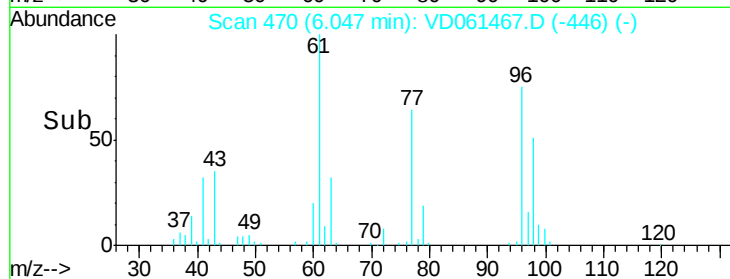
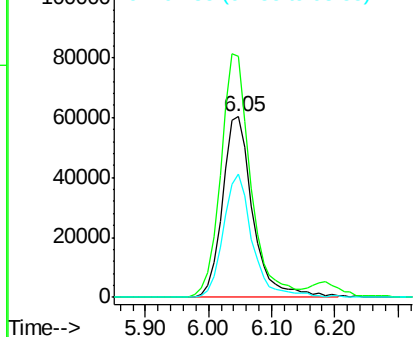
cis-1,2-Dichloroethene
Concen: 22.204 ug/l
RT: 6.05 min Scan# 470
Delta R.T. 0.03 min
Lab File: VD061467.D
Acq: 1 Apr 2019 14:36

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 96 Resp: 200613
Ion Ratio Lower Upper
96 100
61 133.2 0.0 251.6
98 68.1 0.0 129.2



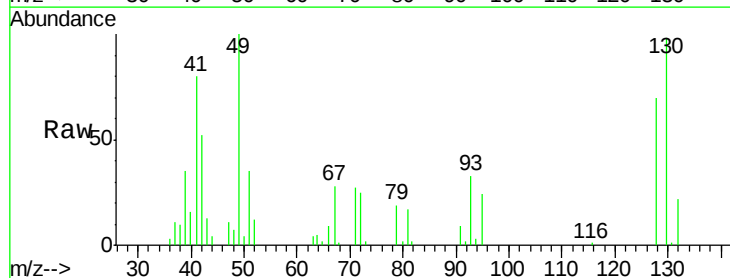
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



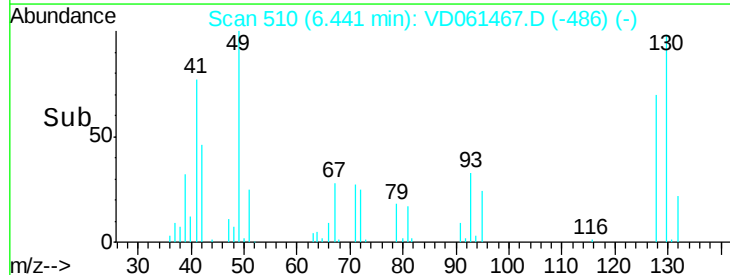
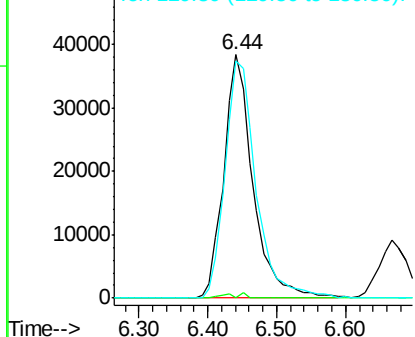
#28

Bromochloromethane
Concen: 21.161 ug/l
RT: 6.44 min Scan# 510
Delta R.T. 0.03 min
Lab File: VD061467.D
Acq: 1 Apr 2019 14:36

Tgt Ion: 49 Resp: 113175
Ion Ratio Lower Upper
49 100
129 0.0 0.0 0.0
130 97.5 78.4 117.6



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

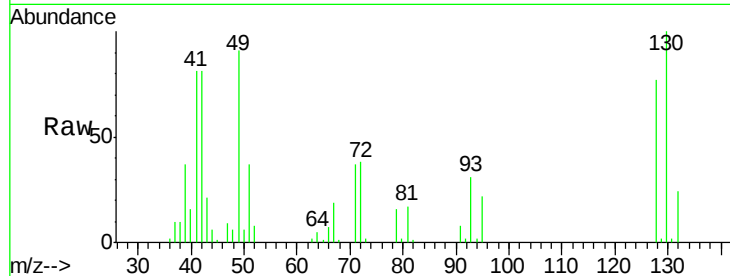




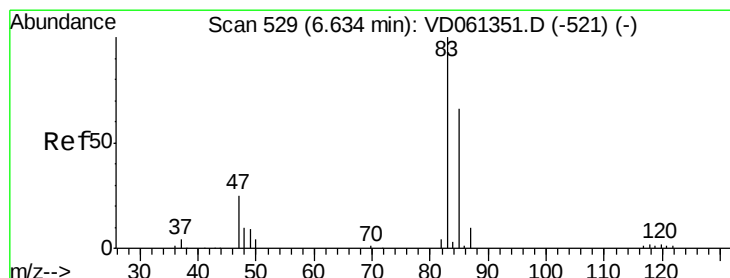
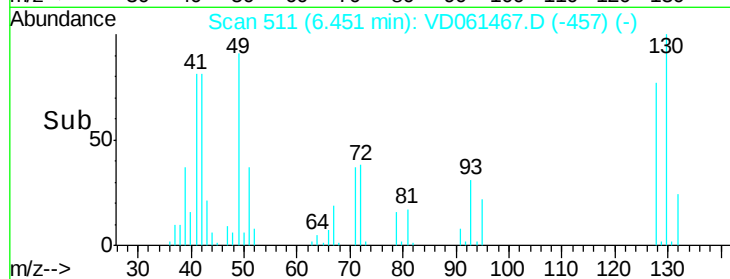
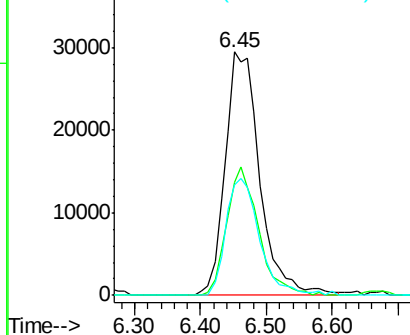
#29
Tetrahydrofuran
Concen: 113.684 ug/l
RT: 6.45 min Scan# 511
Delta R.T. 0.03 min
Lab File: VD061467.D
Acq: 1 Apr 2019 14:36

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 42 Resp: 108313
Ion Ratio Lower Upper
42 100
72 48.7 37.4 56.0
71 47.0 36.7 55.1

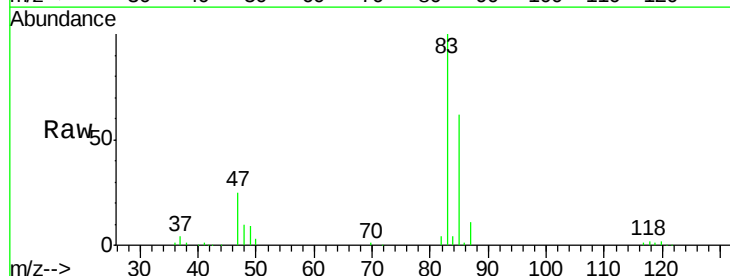


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

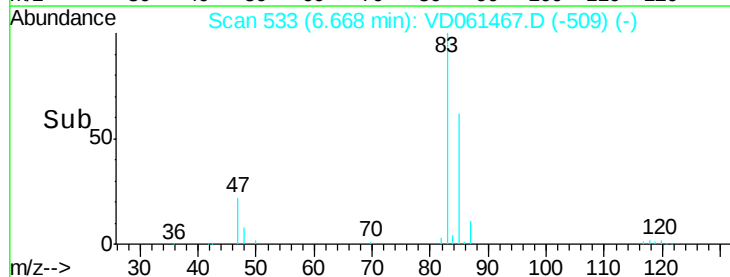
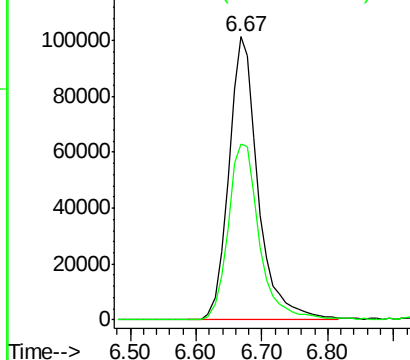


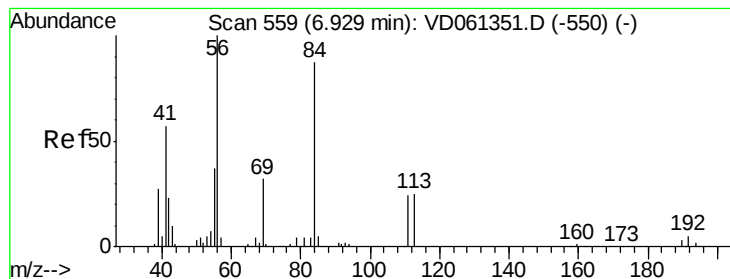
#30
Chloroform
Concen: 23.032 ug/l
RT: 6.67 min Scan# 533
Delta R.T. 0.03 min
Lab File: VD061467.D
Acq: 1 Apr 2019 14:36

Tgt Ion: 83 Resp: 315307
Ion Ratio Lower Upper
83 100
85 62.3 53.0 79.4



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





#31

Cyclohexane

Concen: 24.378 ug/l

RT: 6.96 min Scan# 563

Delta R.T. 0.03 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

Instrument :

MSVOA_D

ClientSampleId :

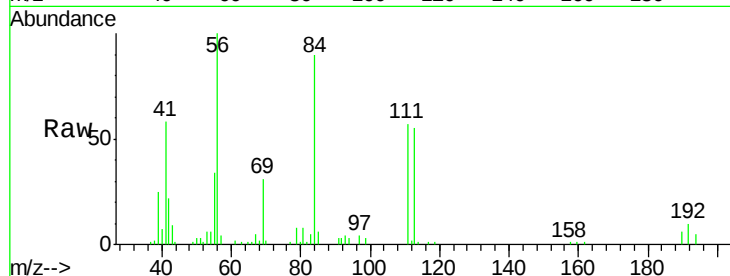
Tot Ion: 56 Resp: 255231

Ion Ratio Lower Upper

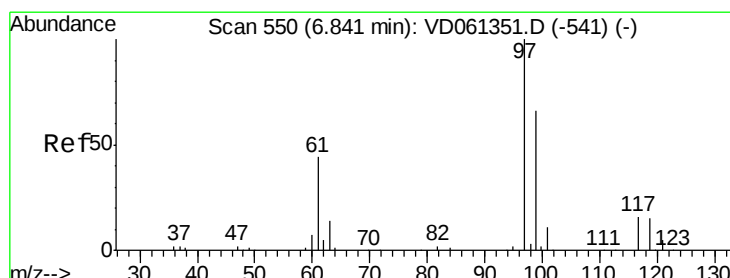
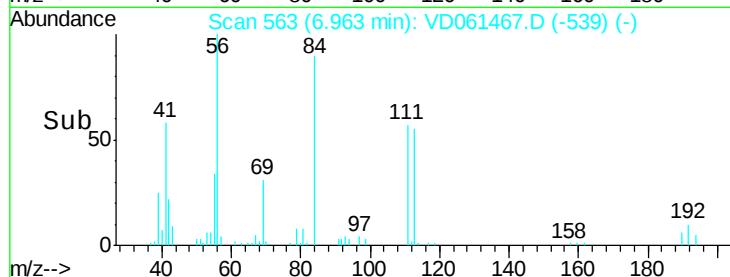
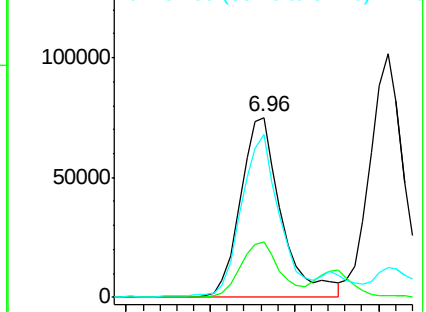
56 100

69 30.8 25.7 38.5

84 90.4 70.6 105.8



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



#32

1,1,1-Trichloroethane

Concen: 22.501 ug/l

RT: 6.87 min Scan# 554

Delta R.T. 0.03 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

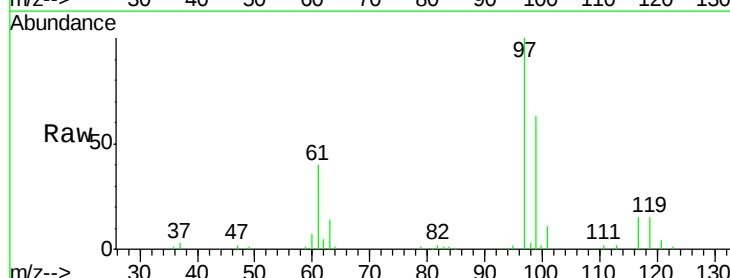
Tgt Ion: 97 Resp: 271750

Ion Ratio Lower Upper

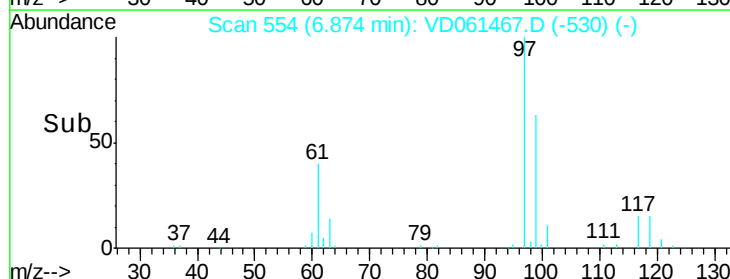
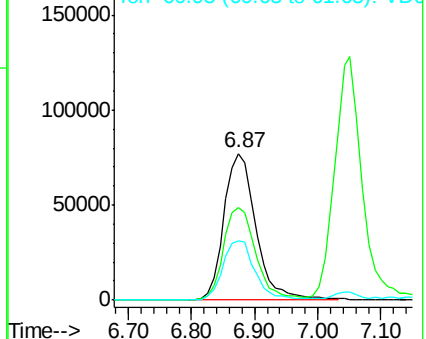
97 100

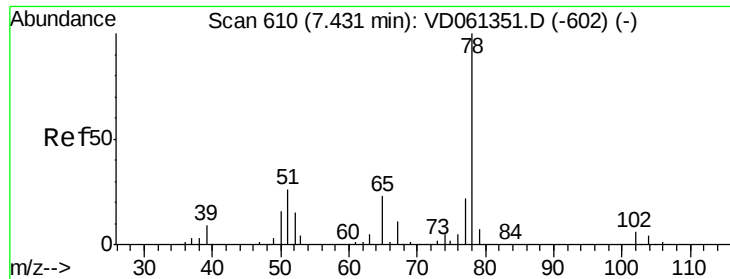
99 63.0 53.1 79.7

61 40.1 35.5 53.3



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





#33

1,2-Dichloroethane-d4

Concen: 22.501 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.02 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

Instrument :

MSVOA_D

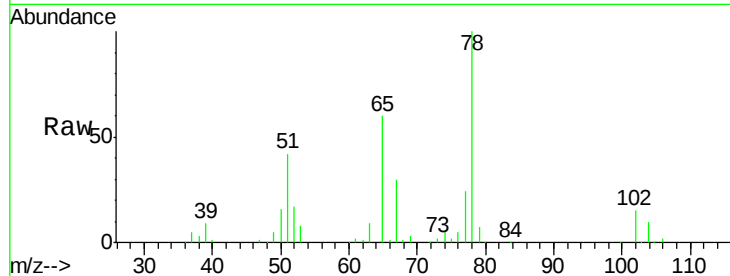
ClientSampleId :

Tot Ion: 65 Resp: 336426

Ion Ratio Lower Upper

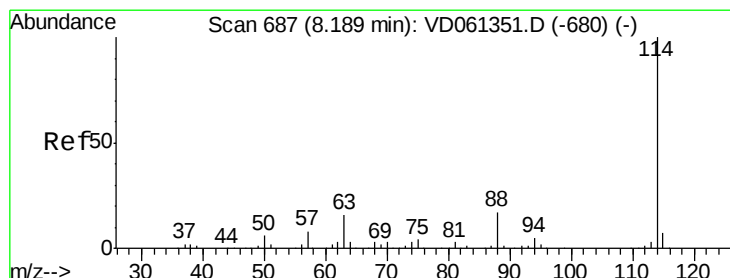
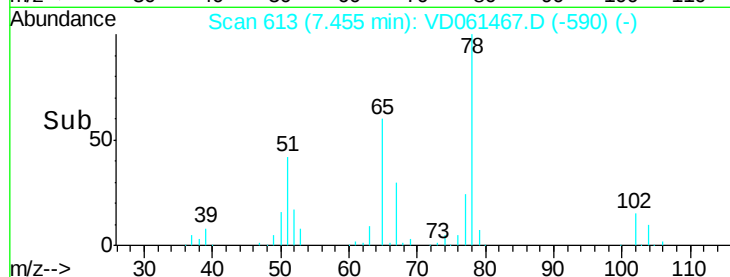
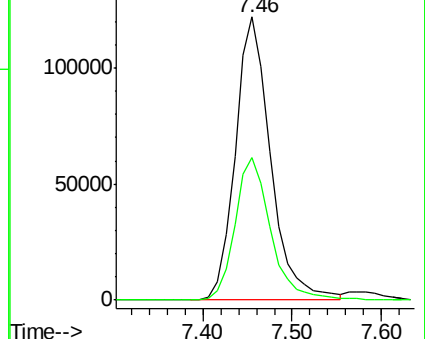
65 100

67 50.2 0.0 99.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 691

Delta R.T. 0.03 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

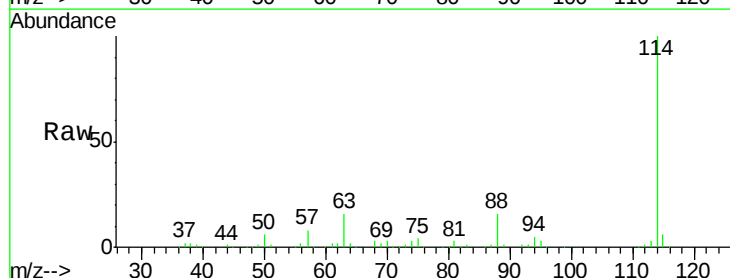
Tgt Ion:114 Resp: 1283490

Ion Ratio Lower Upper

114 100

63 16.1 0.0 31.6

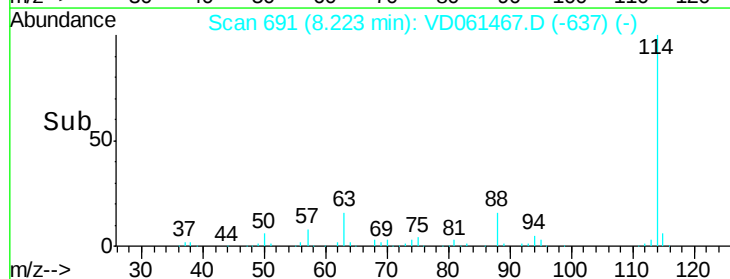
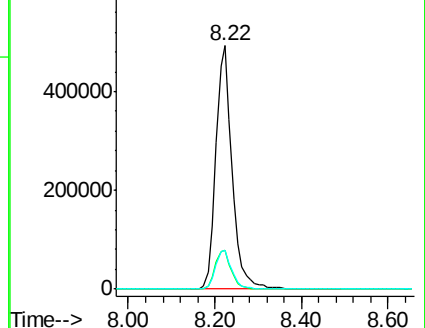
88 16.2 0.0 33.4

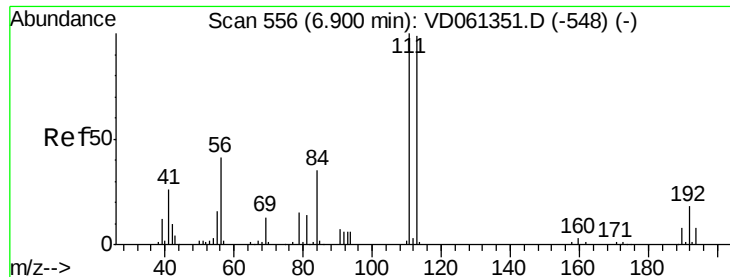


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

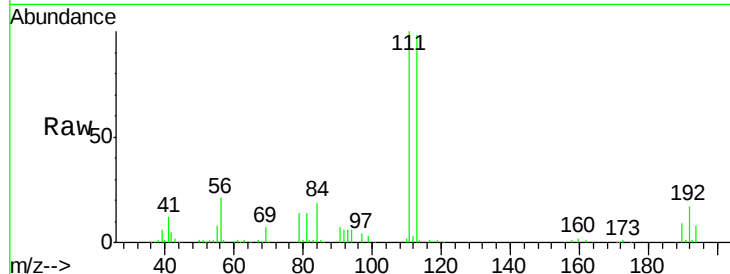




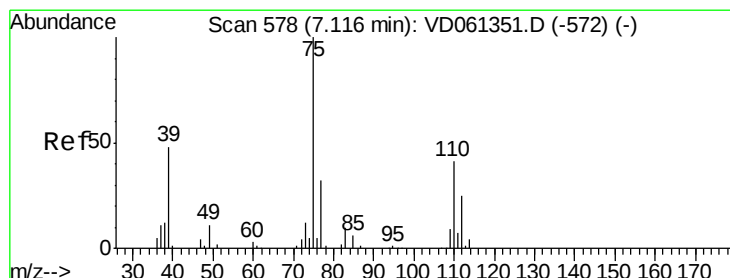
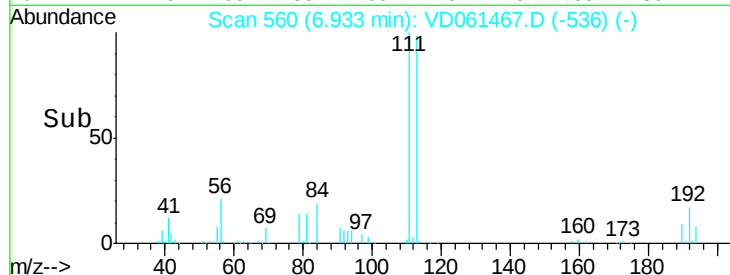
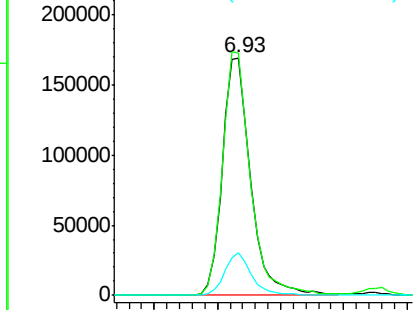
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.93 min Scan# 560
 Delta R.T. 0.03 min
 Lab File: VD061467.D
 Acq: 1 Apr 2019 14:36

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:113 Resp: 528254
 Ion Ratio Lower Upper
 113 100
 111 102.3 81.0 121.6
 192 17.8 14.4 21.6

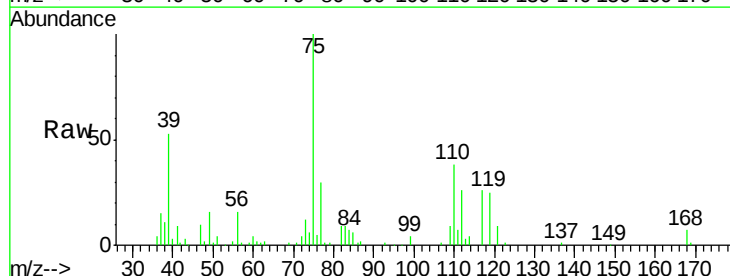


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

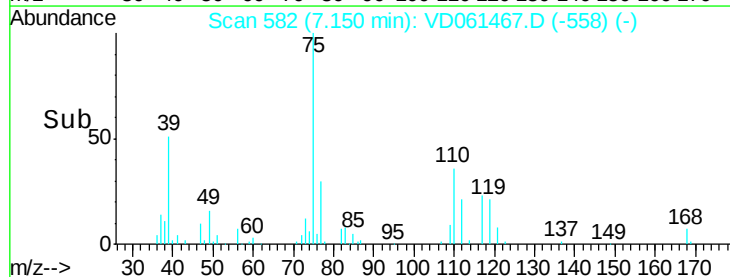
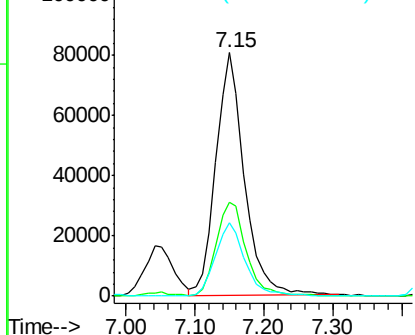


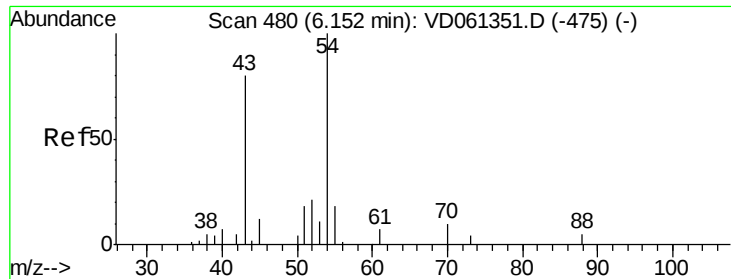
#36
 1,1-Dichloropropene
 Concen: 20.640 ug/l
 RT: 7.15 min Scan# 582
 Delta R.T. 0.03 min
 Lab File: VD061467.D
 Acq: 1 Apr 2019 14:36

Tgt Ion: 75 Resp: 231205
 Ion Ratio Lower Upper
 75 100
 110 38.5 20.4 61.3
 77 30.4 24.9 37.3



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

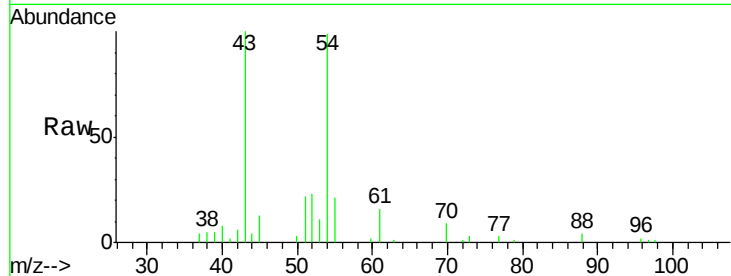




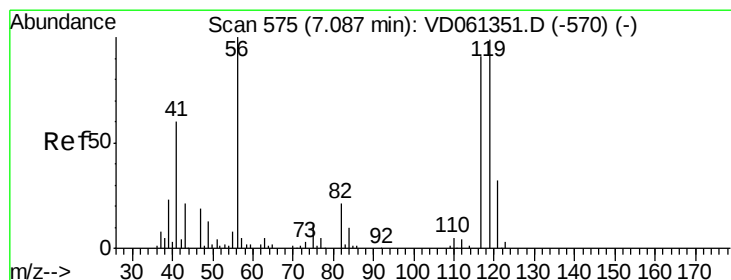
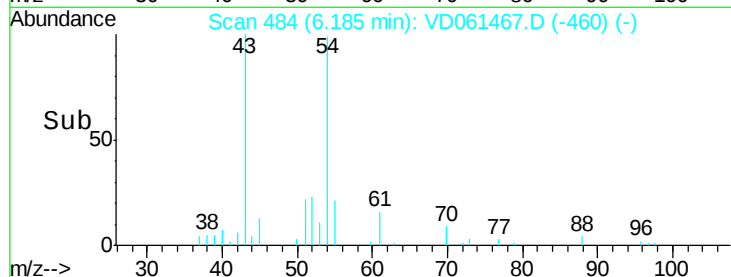
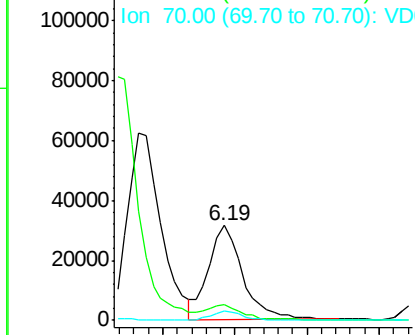
#37
Ethyl Acetate
Concen: 21.540 ug/l
RT: 6.19 min Scan# 484
Delta R.T. 0.03 min
Lab File: VD061467.D
Acq: 1 Apr 2019 14:36

Instrument :
MSVOA_D
ClientSampleID :

Tot Ion: 43 Resp: 103192
Ion Ratio Lower Upper
43 100
61 16.4 13.8 20.8
70 9.4 7.8 11.8

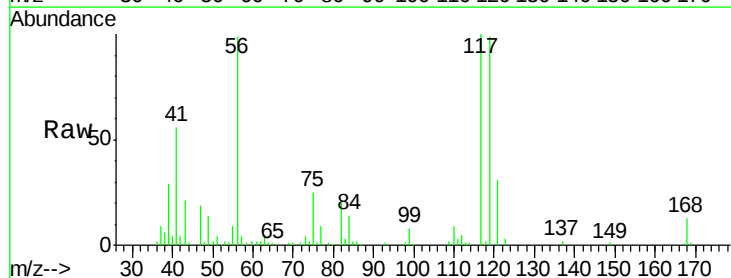


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

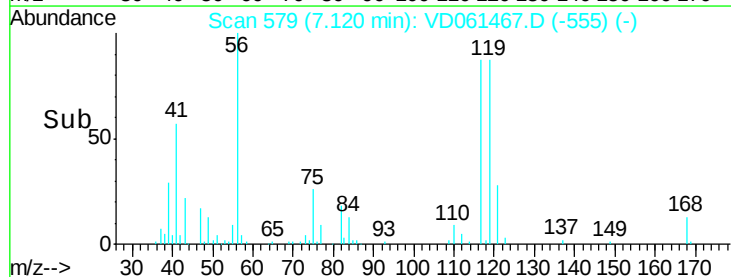
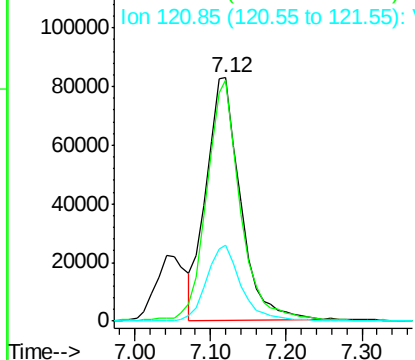


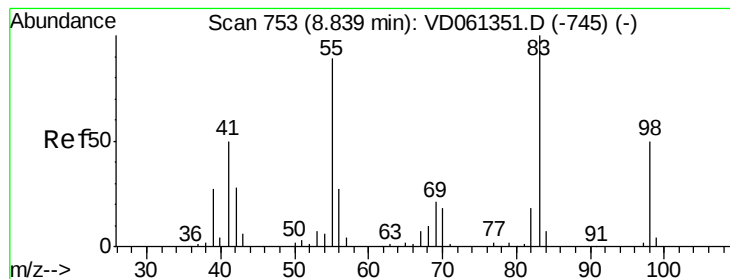
#38
Carbon Tetrachloride
Concen: 20.224 ug/l
RT: 7.12 min Scan# 579
Delta R.T. 0.03 min
Lab File: VD061467.D
Acq: 1 Apr 2019 14:36

Tgt Ion: 117 Resp: 260330
Ion Ratio Lower Upper
117 100
119 99.2 80.1 120.1
121 31.4 25.6 38.4



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V





#39

Methvlcvclohexane

Concen: 22.426 ug/l

RT: 8.86 min Scan# 756

Delta R.T. 0.02 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

Instrument :

MSVOA_D

ClientSampleId :

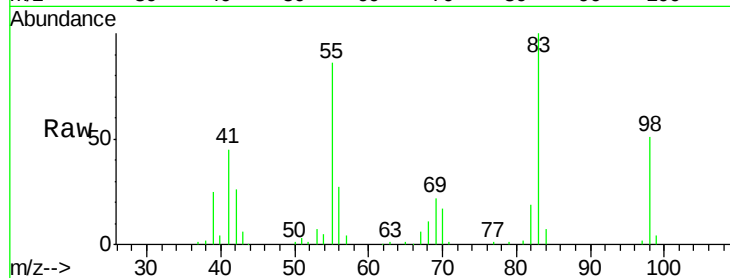
Tot Ion: 83 Resp: 261637

Ion Ratio Lower Upper

83 100

55 85.8 71.5 107.3

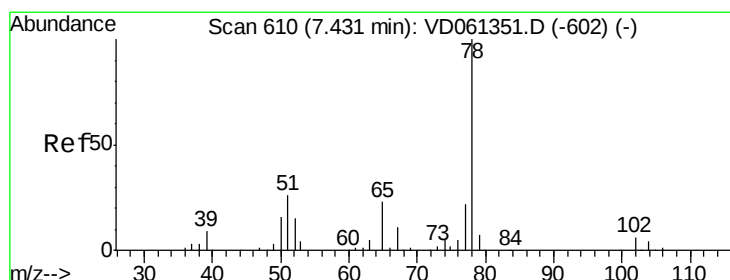
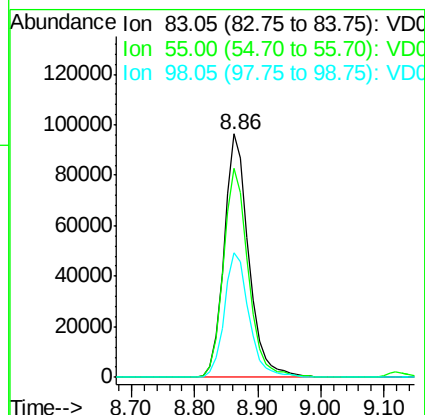
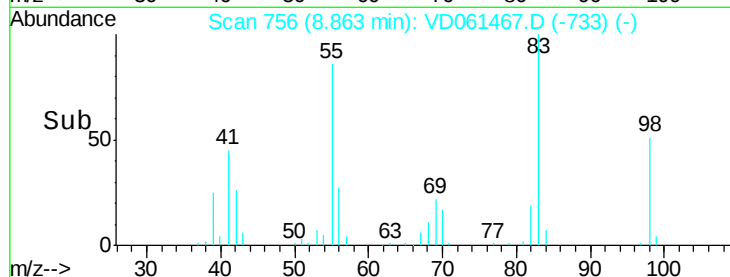
98 51.3 40.3 60.5



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: 21.215 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.02 min

Lab File: VD061467.D

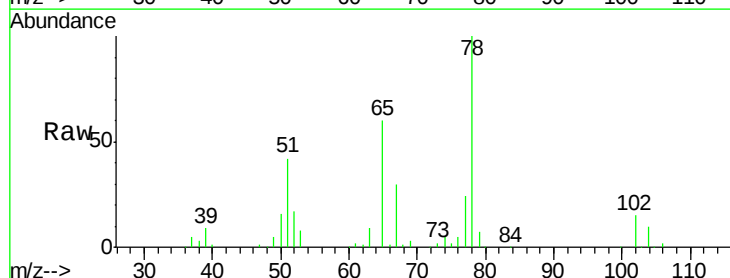
Acq: 1 Apr 2019 14:36

Tgt Ion: 78 Resp: 596449

Ion Ratio Lower Upper

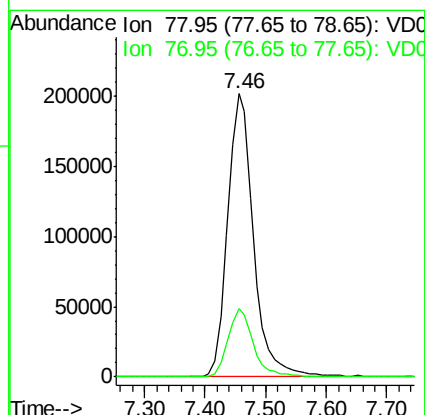
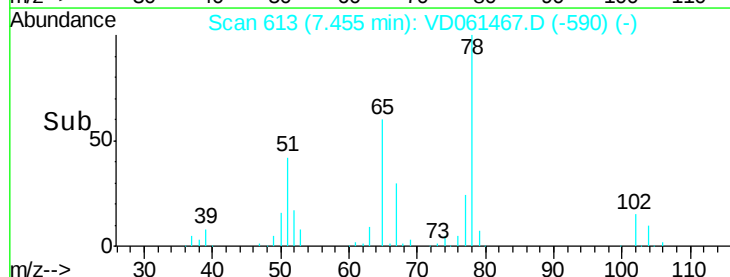
78 100

77 24.2 17.8 26.6



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC





#41

Methacrylonitrile

Concen: 21.639 ug/l

RT: 6.44 min Scan# 510

Delta R.T. 0.02 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 41 Resp: 121216

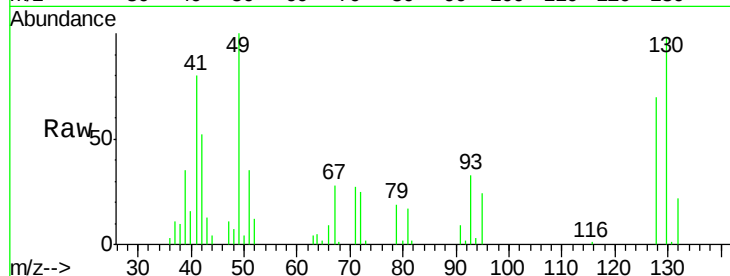
Ion Ratio Lower Upper

41 100

39 44.0 35.0 52.6

67 34.9 21.0 31.6#

52 15.2 7.7 11.5#

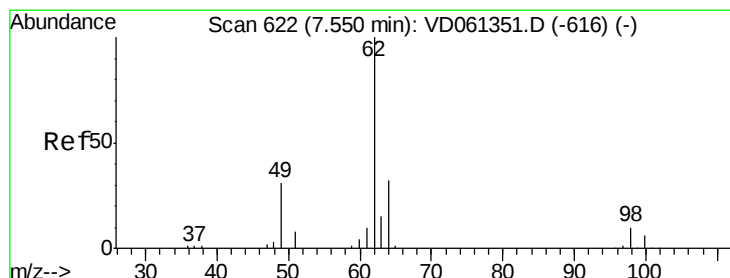
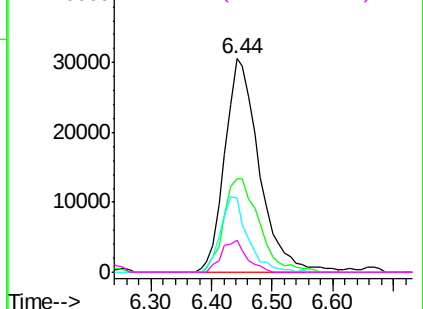
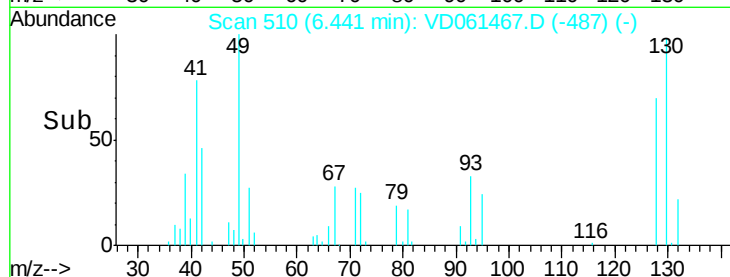


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 22.193 ug/l

RT: 7.58 min Scan# 626

Delta R.T. 0.03 min

Lab File: VD061467.D

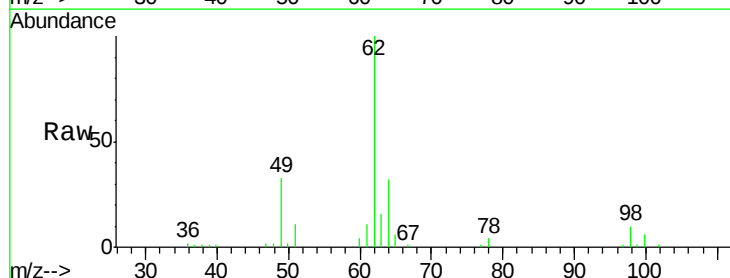
Acq: 1 Apr 2019 14:36

Tgt Ion: 62 Resp: 186637

Ion Ratio Lower Upper

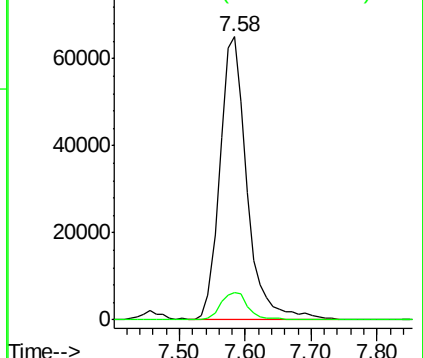
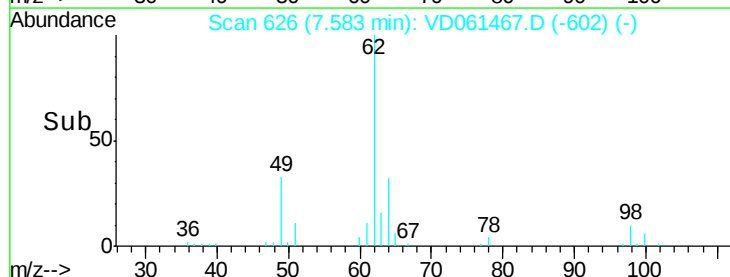
62 100

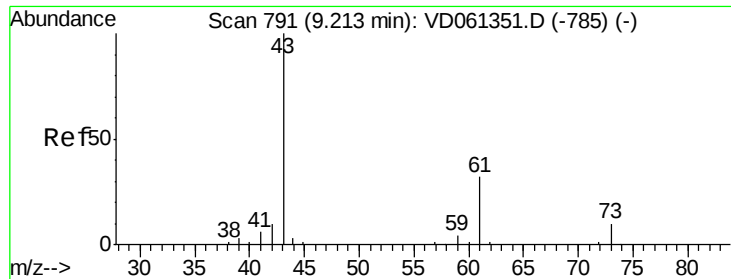
98 9.7 0.0 19.8



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



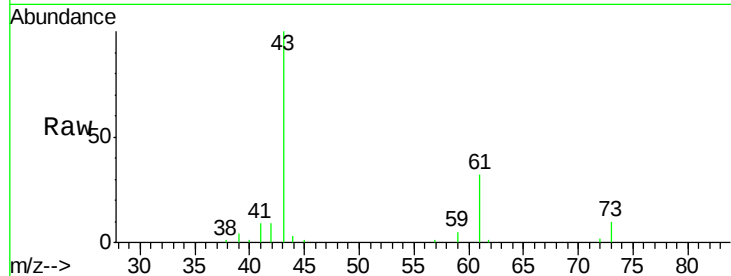


#43

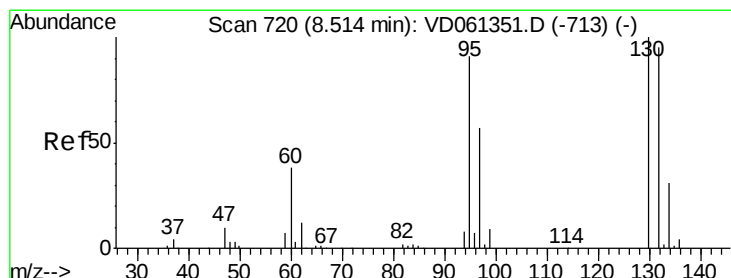
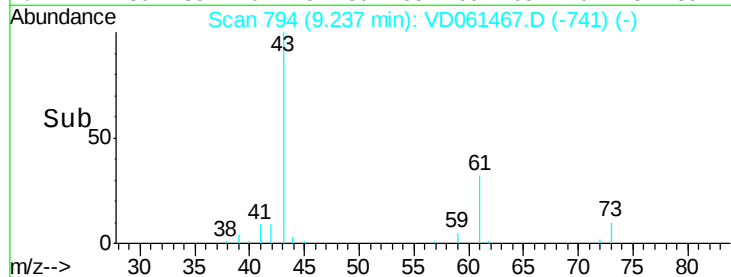
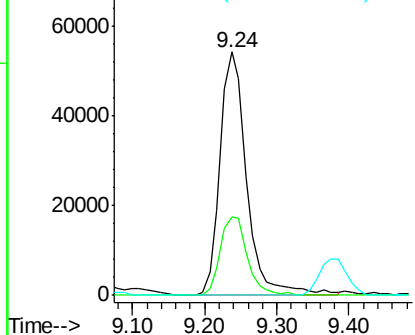
Isopropyl Acetate
 Concen: 19.948 ug/l
 RT: 9.24 min Scan# 794
 Delta R.T. 0.02 min
 Lab File: VD061467.D
 Acq: 1 Apr 2019 14:36

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 43 Resp: 139046
 Ion Ratio Lower Upper
 43 100
 61 32.2 25.8 38.6
 87 0.0 0.0 0.0



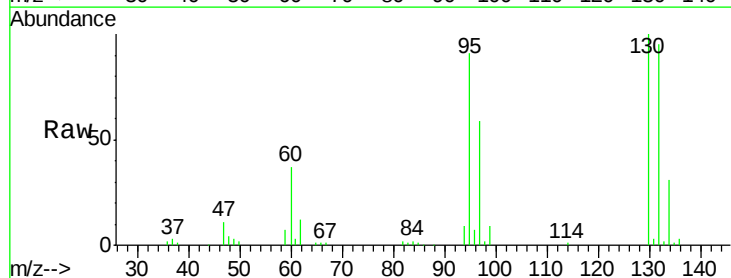
Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



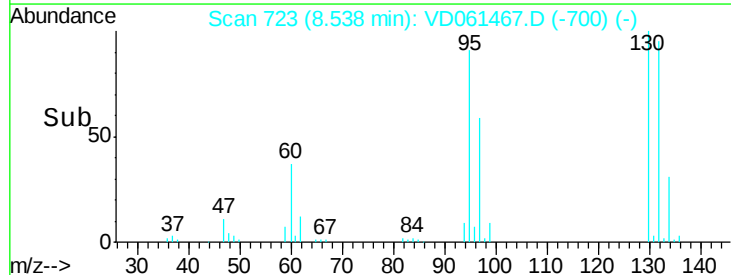
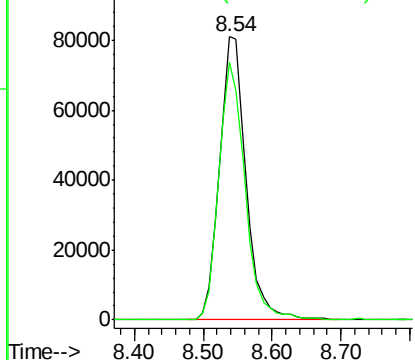
#44

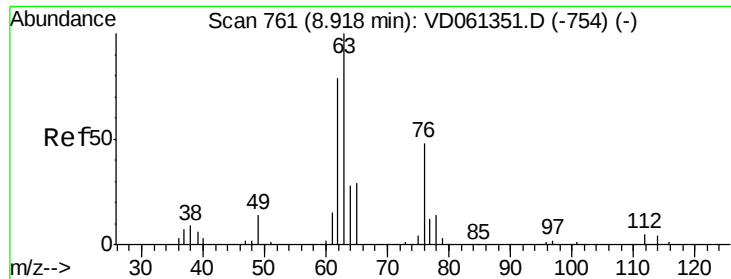
Trichloroethene
 Concen: 20.627 ug/l
 RT: 8.54 min Scan# 723
 Delta R.T. 0.02 min
 Lab File: VD061467.D
 Acq: 1 Apr 2019 14:36

Tgt Ion:130 Resp: 215808
 Ion Ratio Lower Upper
 130 100
 95 91.2 0.0 181.4



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





#45

1,2-Dichloropropane

Concen: 19.950 ug/l

RT: 8.94 min Scan# 764

Delta R.T. 0.02 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

Instrument :

MSVOA_D

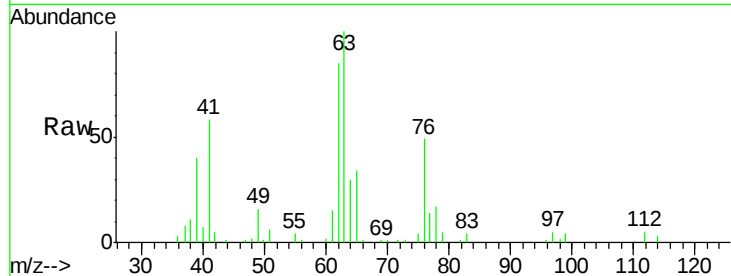
ClientSampleId :

Tot Ion: 63 Resp: 142219

Ion Ratio Lower Upper

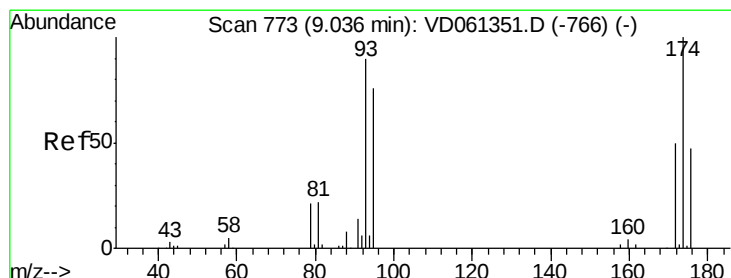
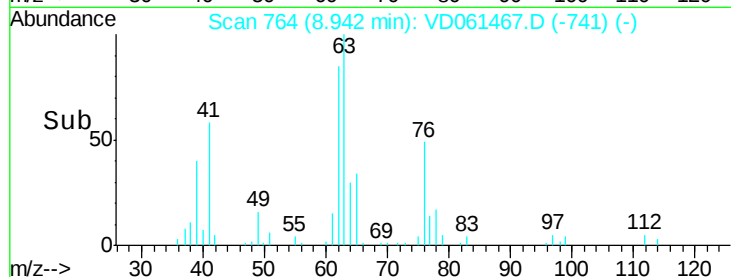
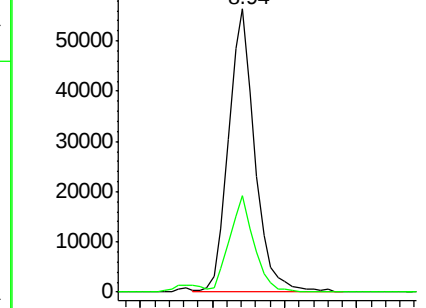
63 100

65 34.0 25.0 37.4



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 20.886 ug/l

RT: 9.06 min Scan# 776

Delta R.T. 0.02 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

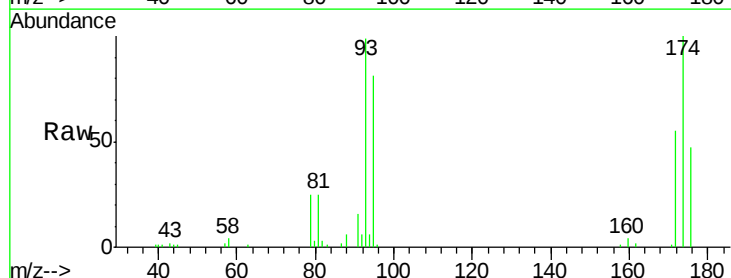
Tgt Ion: 93 Resp: 100214

Ion Ratio Lower Upper

93 100

95 81.2 67.4 101.0

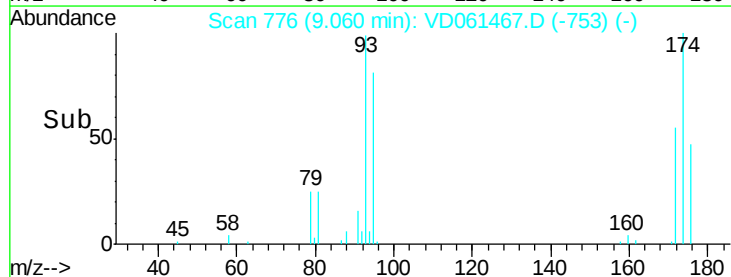
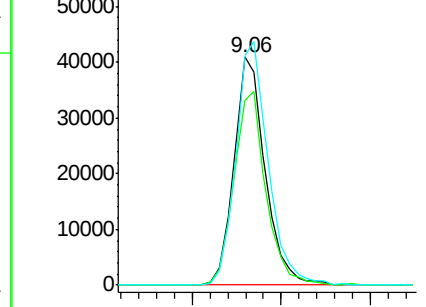
174 100.6 88.9 133.3

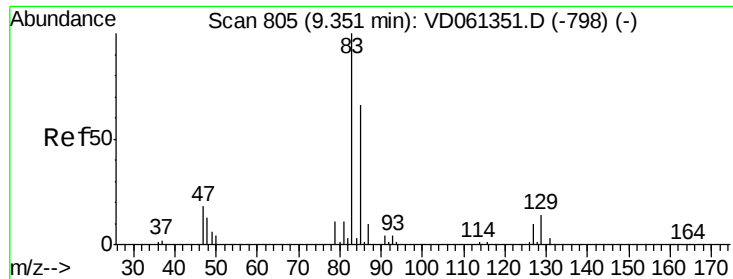


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC





#47

Bromodichloromethane

Concen: 20.588 ug/l

RT: 9.37 min Scan# 808

Delta R.T. 0.02 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

Instrument :
MSVOA_D
ClientSampleId :

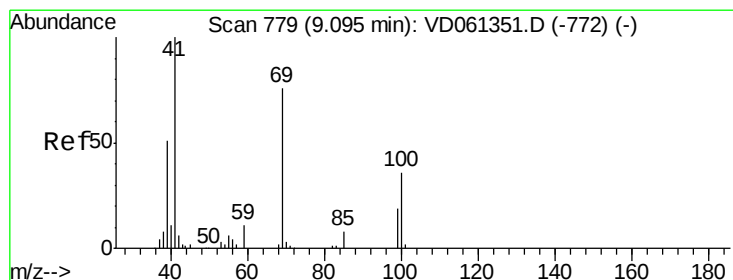
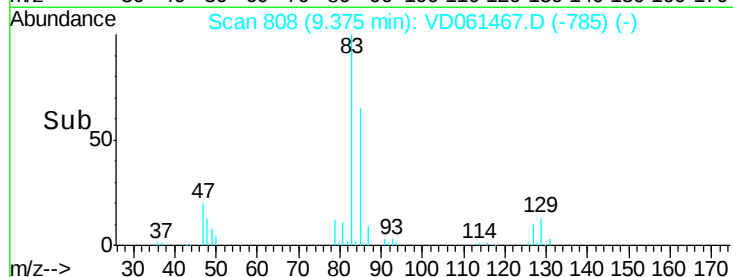
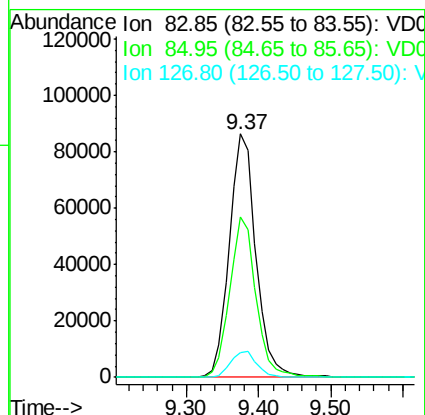
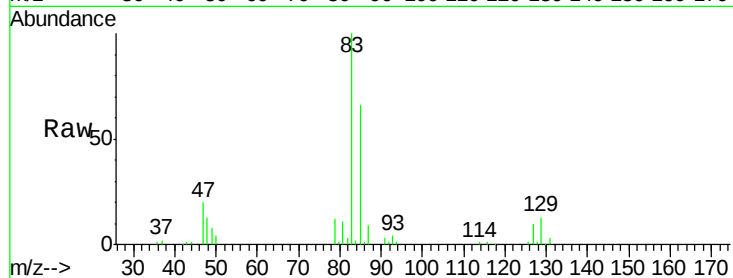
Tot Ion: 83 Resp: 221719

Ion Ratio Lower Upper

83 100

85 66.1 53.0 79.4

127 10.2 8.4 12.6



#48

Methyl methacrylate

Concen: 22.149 ug/l

RT: 9.12 min Scan# 782

Delta R.T. 0.02 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

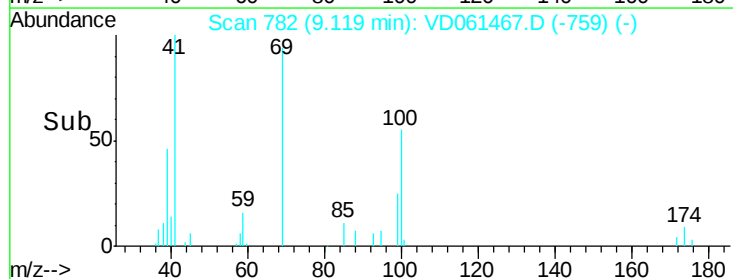
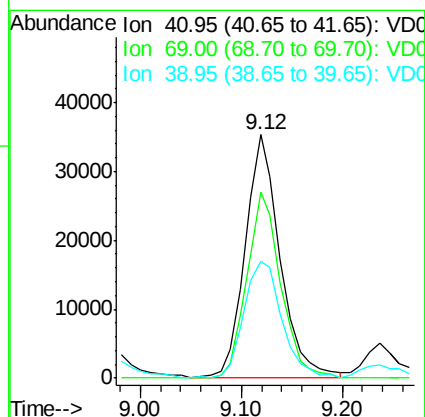
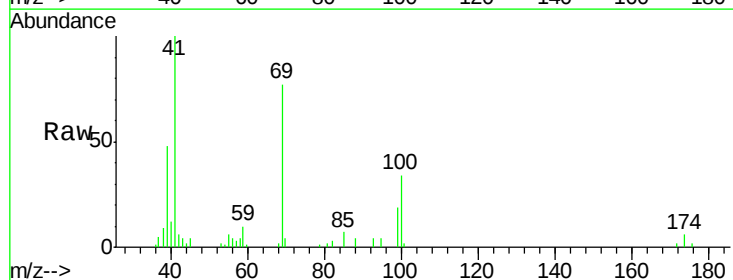
Tgt Ion: 41 Resp: 85206

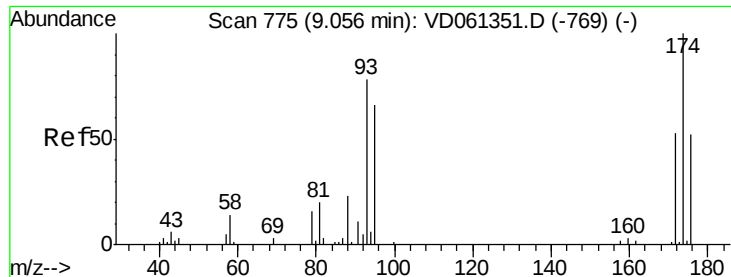
Ion Ratio Lower Upper

41 100

69 76.6 60.2 90.4

39 47.9 41.4 62.2





#49

1,4-Dioxane

Concen: 434.676 ug/l

RT: 9.08 min Scan# 778

Delta R.T. 0.02 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

Instrument :
MSVOA_D
ClientSampleId :

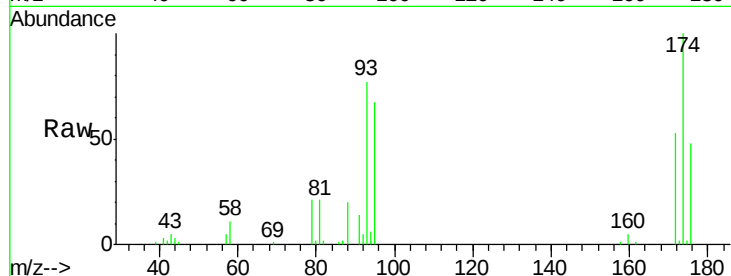
Tot Ion: 88 Resp: 18444

Ion Ratio Lower Upper

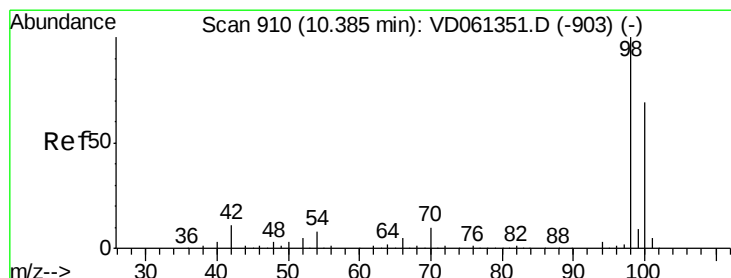
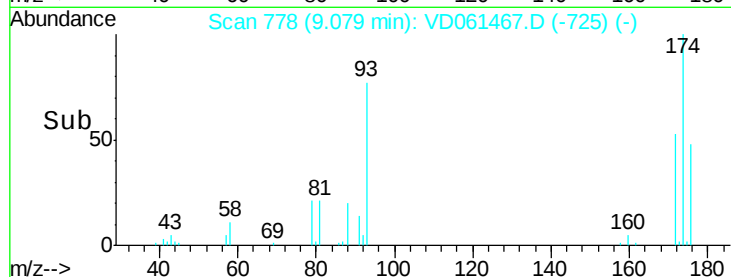
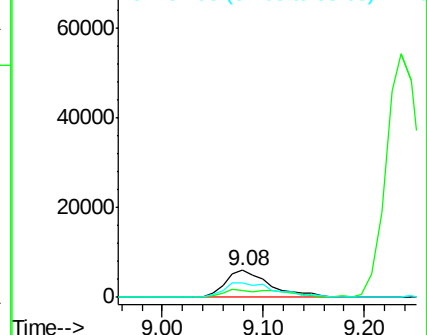
88 100

43 26.0 23.3 34.9

58 55.8 50.8 76.2



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



#50

Toluene-d8

Concen: 434.676 ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.02 min

Lab File: VD061467.D

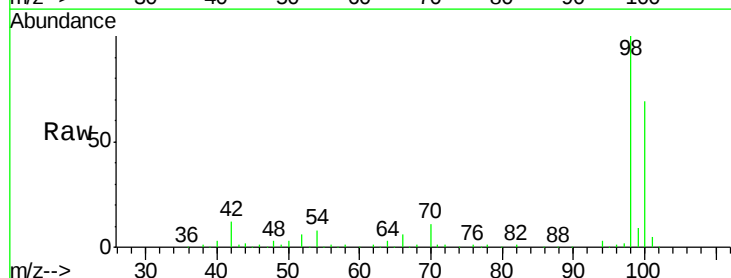
Acq: 1 Apr 2019 14:36

Tgt Ion: 98 Resp: 1117484

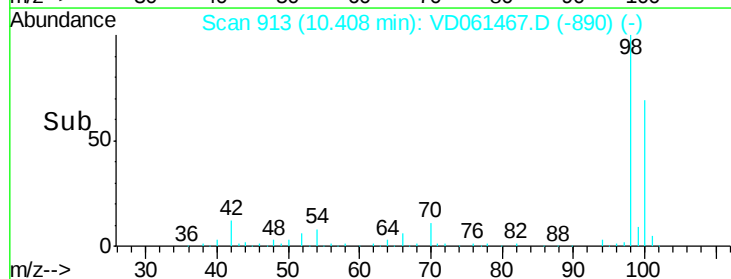
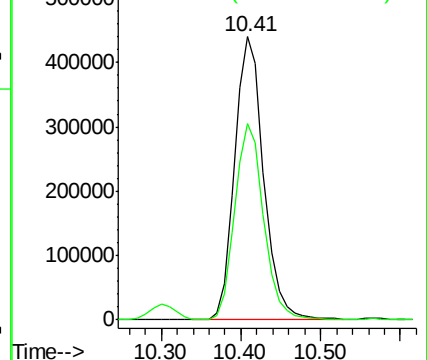
Ion Ratio Lower Upper

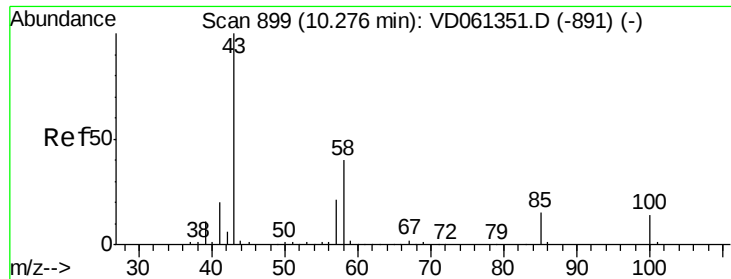
98 100

100 69.3 56.2 84.2



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





#51

4-Methyl-2-Pentanone

Concen: 104.041 ug/l

RT: 10.30 min Scan# 902

Delta R.T. 0.02 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

Instrument :

MSVOA_D

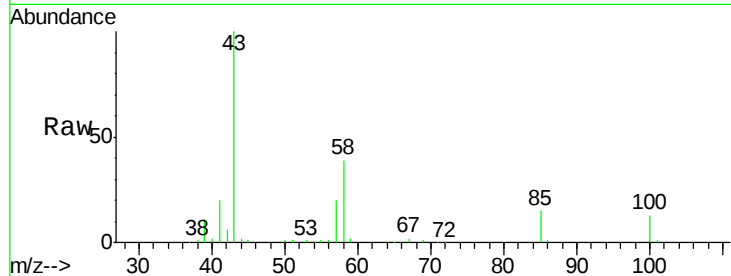
ClientSampleId :

Tot Ion: 43 Resp: 441219

Ion Ratio Lower Upper

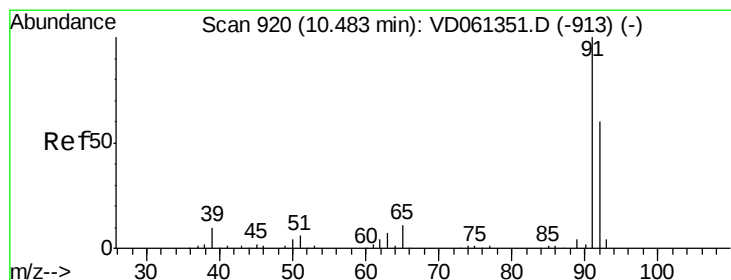
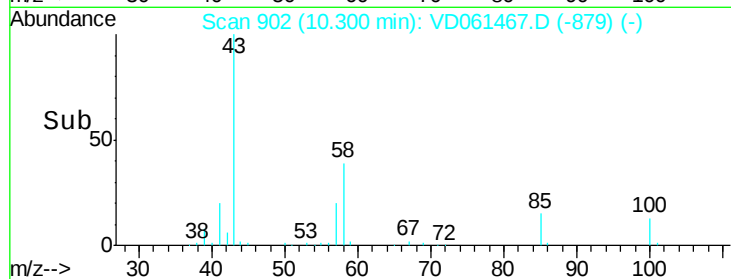
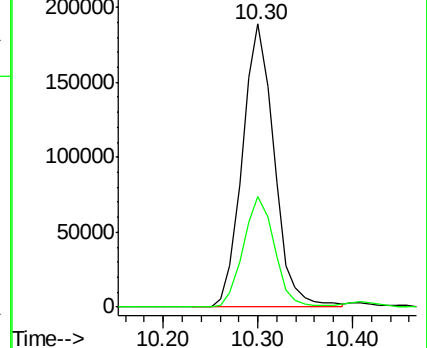
43 100

58 39.0 31.8 47.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 21.477 ug/l

RT: 10.51 min Scan# 923

Delta R.T. 0.02 min

Lab File: VD061467.D

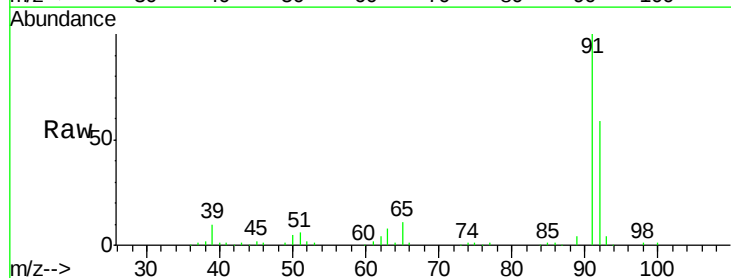
Acq: 1 Apr 2019 14:36

Tgt Ion: 92 Resp: 368362

Ion Ratio Lower Upper

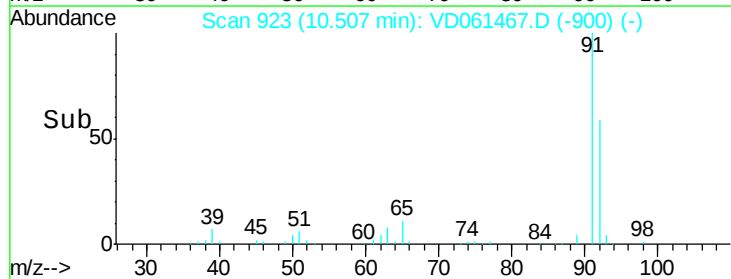
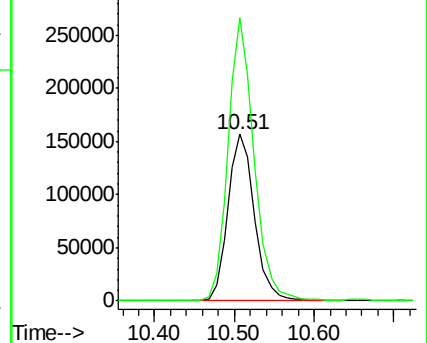
92 100

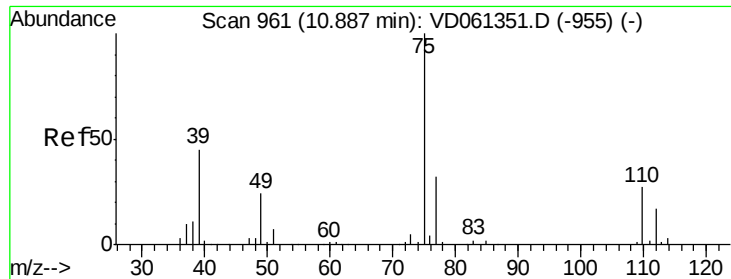
91 169.9 133.3 199.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

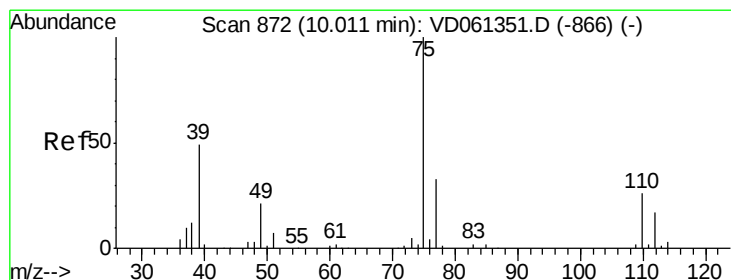
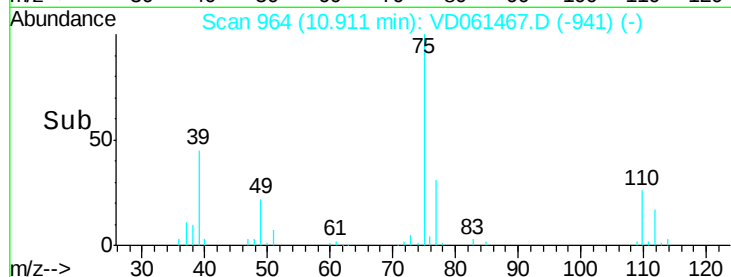
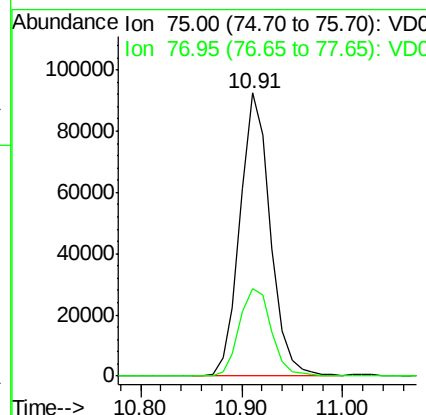
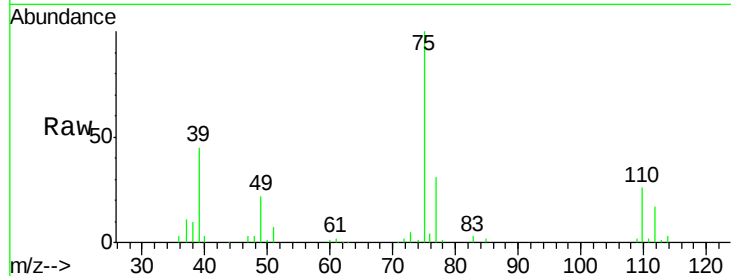




#53
 t-1,3-Dichloropropene
 Concen: 19.855 ug/l
 RT: 10.91 min Scan# 964
 Delta R.T. 0.02 min
 Lab File: VD061467.D
 Acq: 1 Apr 2019 14:36

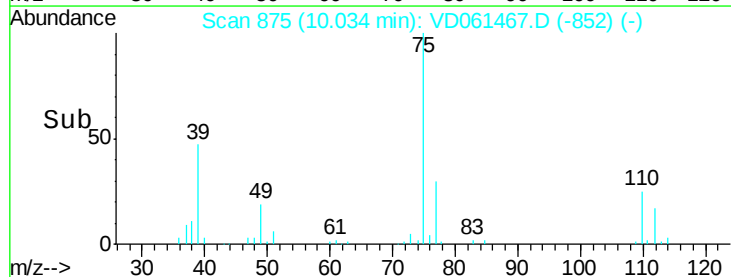
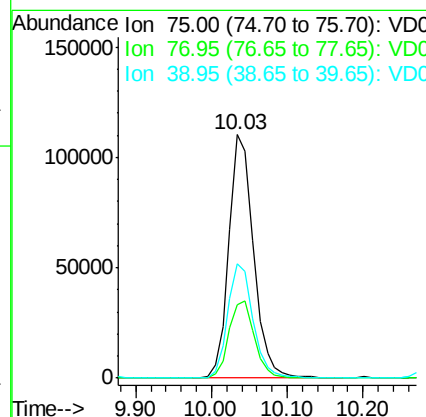
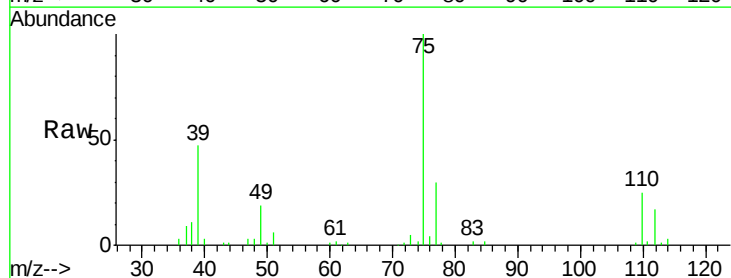
Instrument :
 MSVOA_D
 ClientSampled :

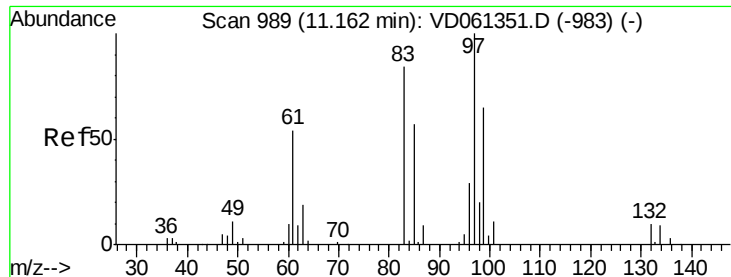
Tot Ion: 75 Resp: 194274
 Ion Ratio Lower Upper
 75 100
 77 30.7 25.4 38.2



#54
 cis-1,3-Dichloropropene
 Concen: 20.913 ug/l
 RT: 10.03 min Scan# 875
 Delta R.T. 0.02 min
 Lab File: VD061467.D
 Acq: 1 Apr 2019 14:36

Tgt Ion: 75 Resp: 249161
 Ion Ratio Lower Upper
 75 100
 77 30.3 26.2 39.4
 39 47.2 39.4 59.0

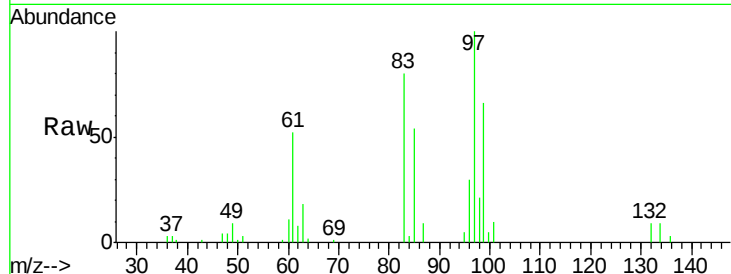




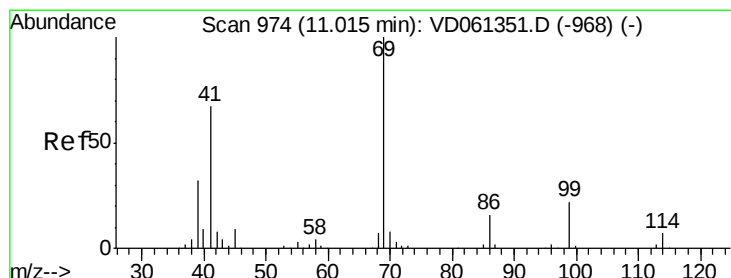
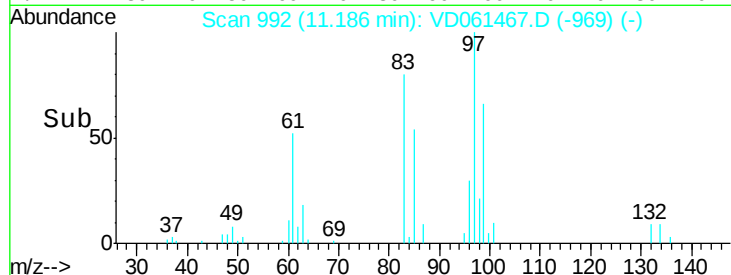
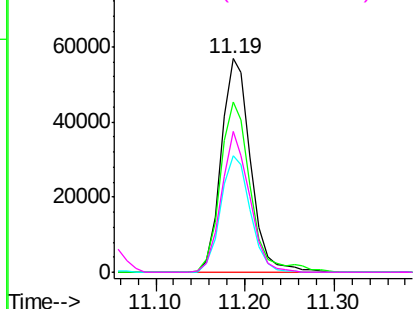
#55
1,1,2-Trichloroethane
Concen: 21.924 ug/l
RT: 11.19 min Scan# 992
Delta R.T. 0.02 min
Lab File: VD061467.D
Acq: 1 Apr 2019 14:36

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:	97	Resp:	131509
Ion	Ratio	Lower	Upper
97	100		
83	80.0	67.0	100.6
85	54.4	45.4	68.2
99	65.8	51.9	77.9

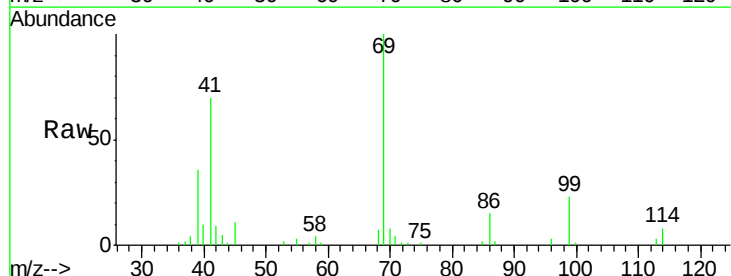


Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 82.95 (82.65 to 83.65): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 98.85 (98.55 to 99.55): VDC

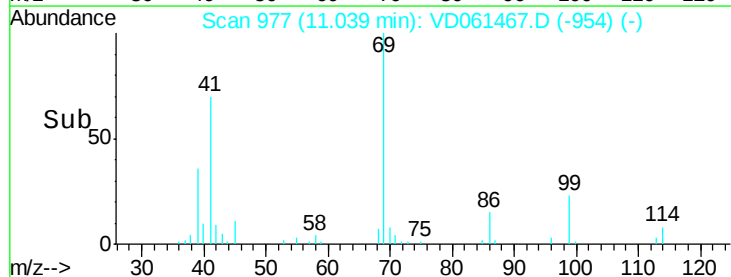
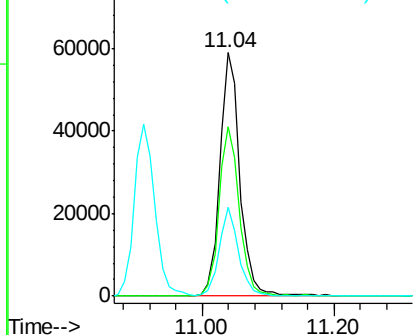


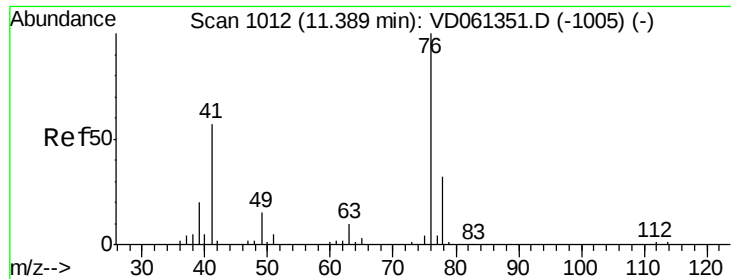
#56
Ethyl methacrylate
Concen: 19.322 ug/l
RT: 11.04 min Scan# 977
Delta R.T. 0.02 min
Lab File: VD061467.D
Acq: 1 Apr 2019 14:36

Tgt Ion:	69	Resp:	124507
Ion	Ratio	Lower	Upper
69	100		
41	69.6	53.8	80.6
39	36.3	26.4	39.6



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

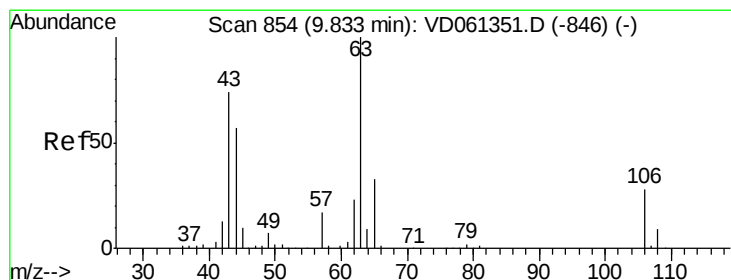
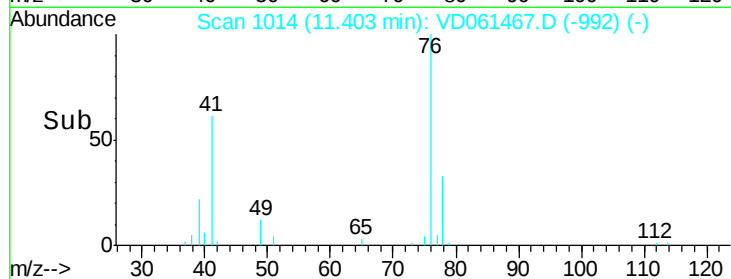
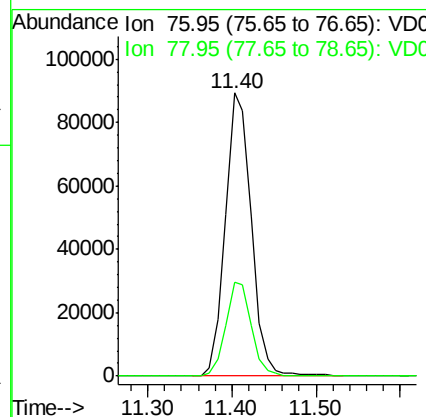
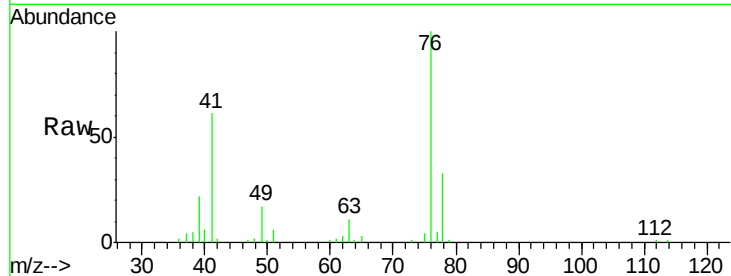




#57
 1,3-Dichloropropane
 Concen: 21.648 ug/l
 RT: 11.40 min Scan# 1014
 Delta R.T. 0.01 min
 Lab File: VD061467.D
 Acq: 1 Apr 2019 14:36

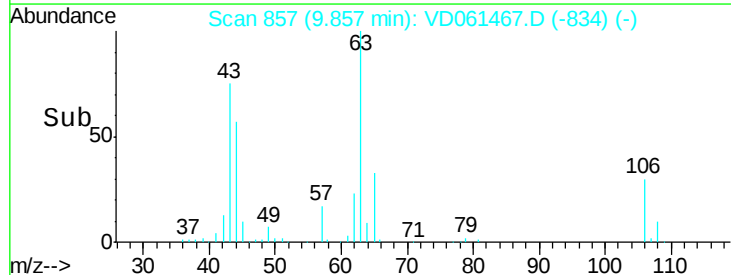
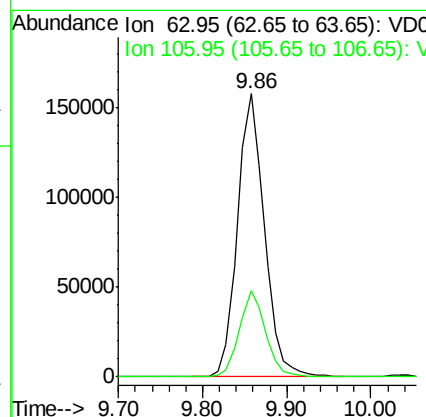
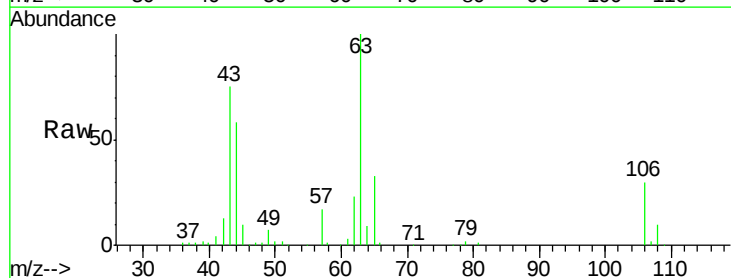
Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion: 76 Resp: 190855
 Ion Ratio Lower Upper
 76 100
 78 33.1 25.4 38.0



#58
 2-Chloroethyl Vinyl ether
 Concen: 111.798 ug/l
 RT: 9.86 min Scan# 857
 Delta R.T. 0.02 min
 Lab File: VD061467.D
 Acq: 1 Apr 2019 14:36

Tgt Ion: 63 Resp: 350832
 Ion Ratio Lower Upper
 63 100
 106 30.4 22.4 33.6

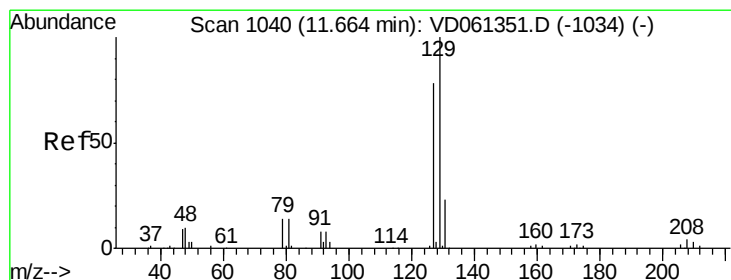
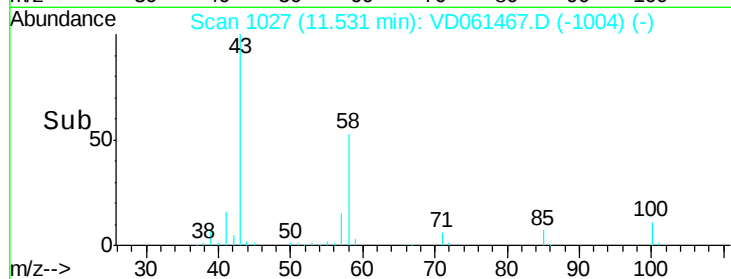
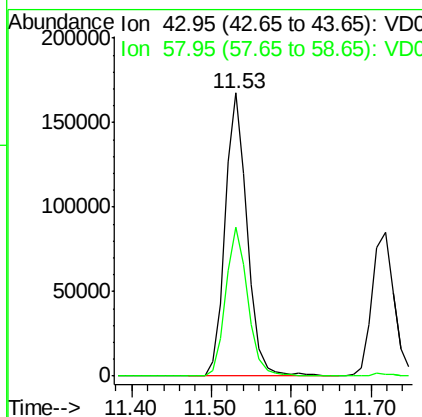
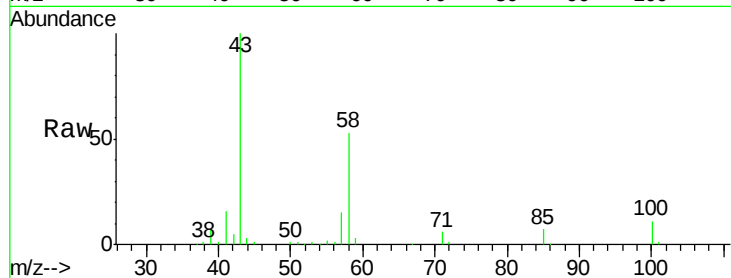




#59
2-Hexanone
Concen: 106.396 ug/l
RT: 11.53 min Scan# 1027
Delta R.T. 0.02 min
Lab File: VD061467.D
Acq: 1 Apr 2019 14:36

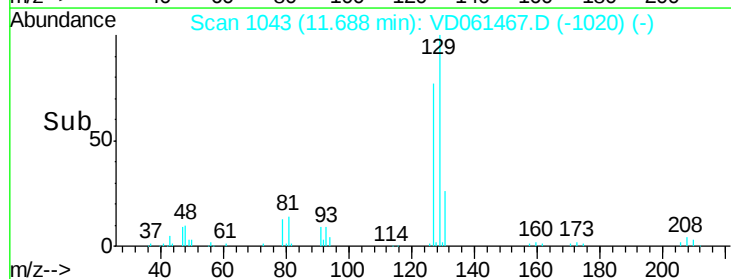
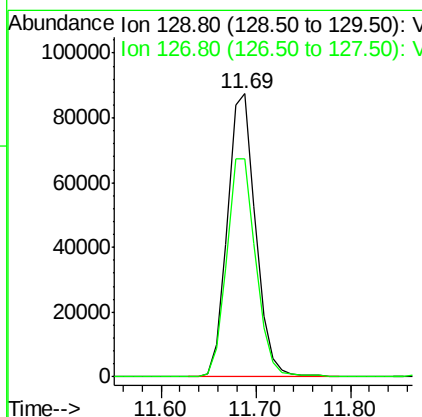
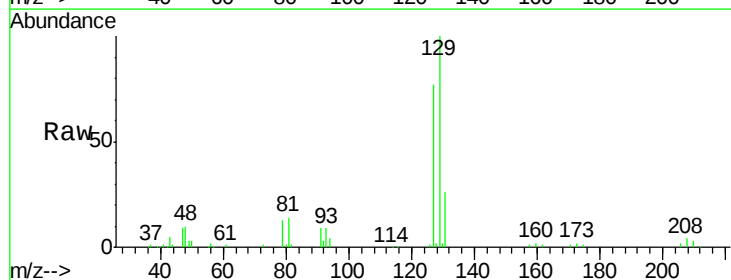
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 326913
Ion Ratio Lower Upper
43 100
58 52.8 26.3 78.9



#60
Dibromochloromethane
Concen: 19.495 ug/l
RT: 11.69 min Scan# 1043
Delta R.T. 0.02 min
Lab File: VD061467.D
Acq: 1 Apr 2019 14:36

Tgt Ion: 129 Resp: 180275
Ion Ratio Lower Upper
129 100
127 76.8 39.0 116.9

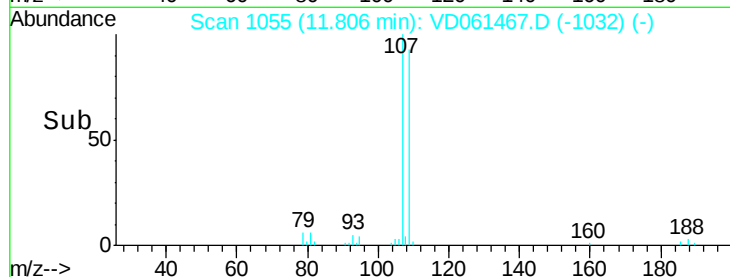
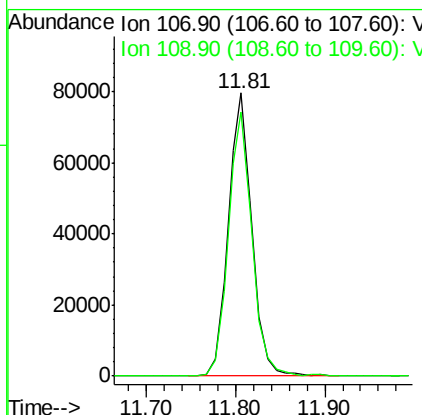
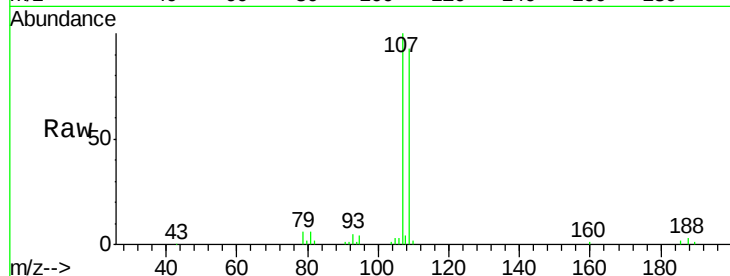




#61
 1,2-Dibromoethane
 Concen: 21.270 ug/l
 RT: 11.81 min Scan# 1055
 Delta R.T. 0.02 min
 Lab File: VD061467.D
 Acq: 1 Apr 2019 14:36

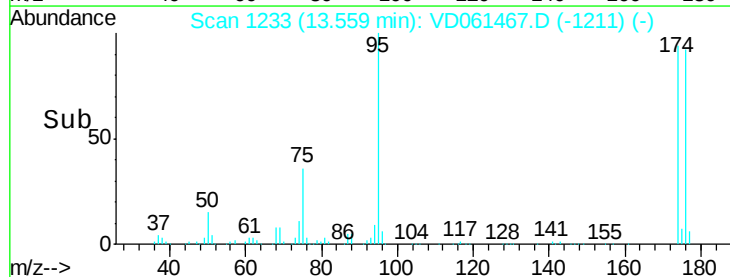
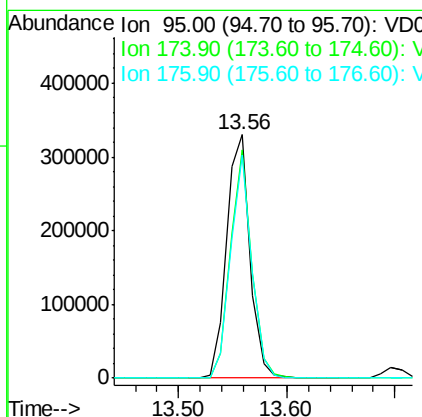
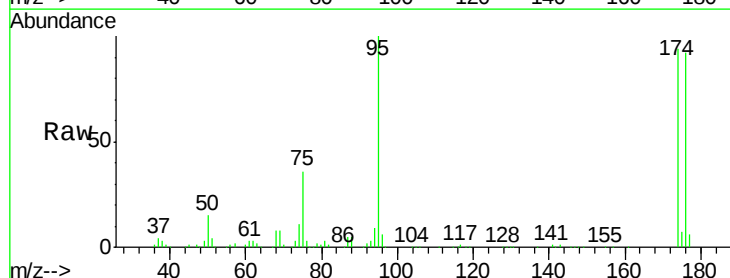
Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 107 Resp: 147735
 Ion Ratio Lower Upper
 107 100
 109 93.5 76.6 114.8



#62
 4-Bromofluorobenzene
 Concen: 21.270 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.01 min
 Lab File: VD061467.D
 Acq: 1 Apr 2019 14:36

Tgt Ion: 95 Resp: 494177
 Ion Ratio Lower Upper
 95 100
 174 93.8 0.0 178.0
 176 91.9 0.0 175.0

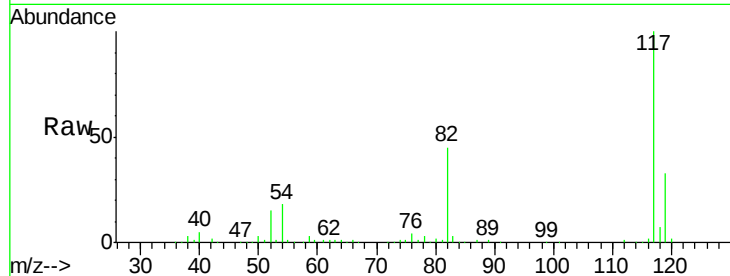




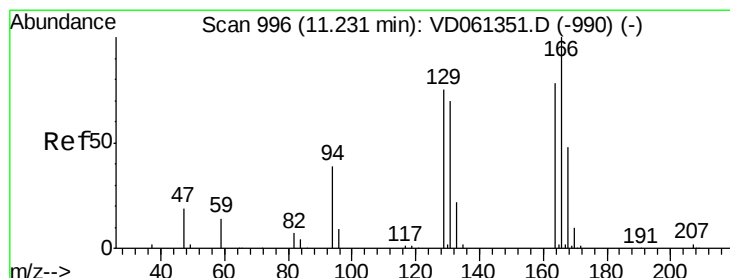
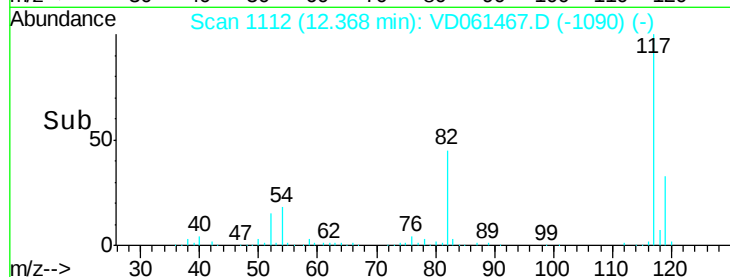
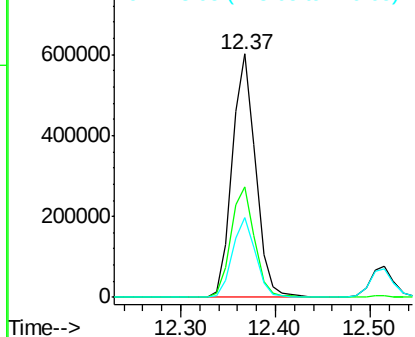
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD061467.D
Acq: 1 Apr 2019 14:36

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 1027934
Ion Ratio Lower Upper
117 100
82 45.4 34.4 51.6
119 32.9 25.8 38.6

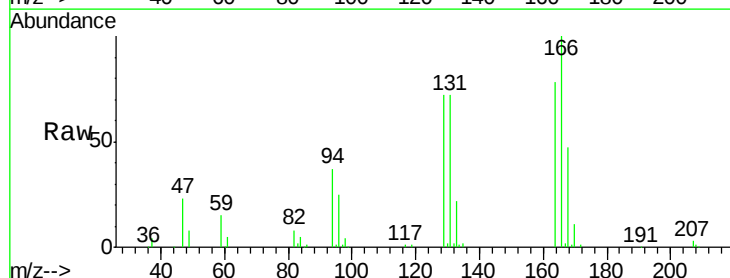


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

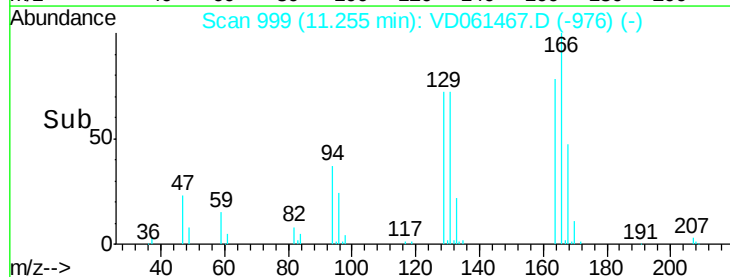
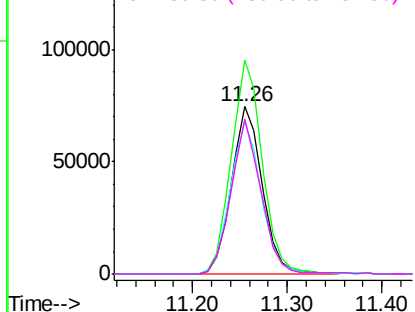


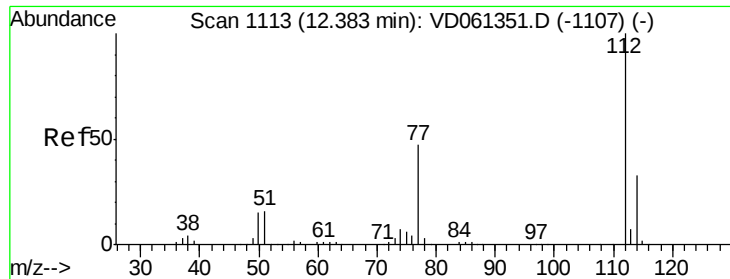
#64
Tetrachloroethene
Concen: 20.851 ug/l
RT: 11.26 min Scan# 999
Delta R.T. 0.02 min
Lab File: VD061467.D
Acq: 1 Apr 2019 14:36

Tgt Ion:164 Resp: 168218
Ion Ratio Lower Upper
164 100
166 127.5 102.4 153.6
129 91.2 76.8 115.2
131 92.3 71.8 107.6



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

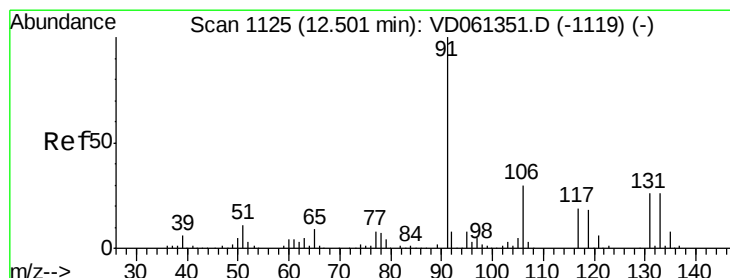
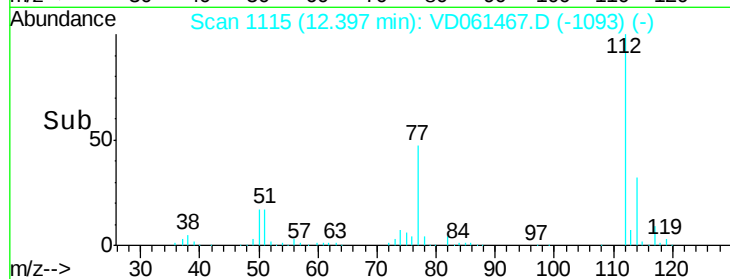
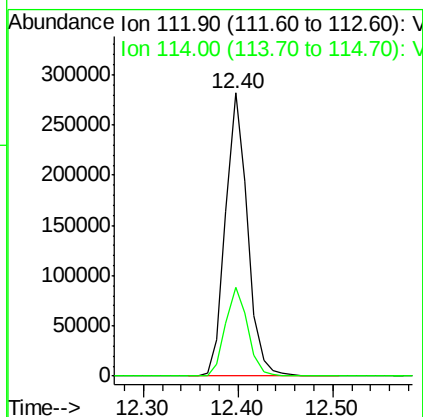
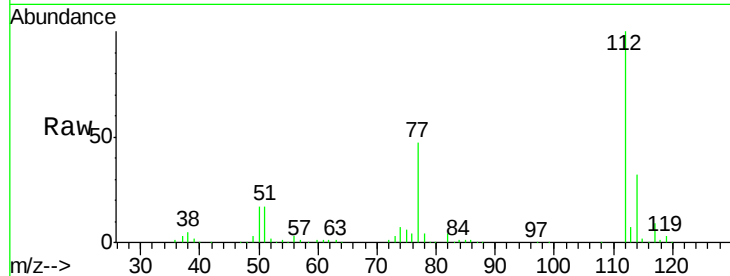




#65
Chlorobenzene
Concen: 21.563 ug/l
RT: 12.40 min Scan# 1115
Delta R.T. 0.01 min
Lab File: VD061467.D
Acq: 1 Apr 2019 14:36

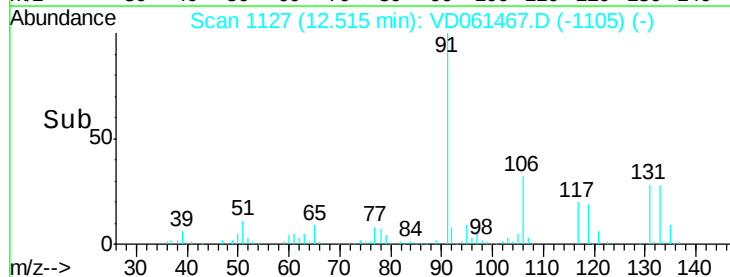
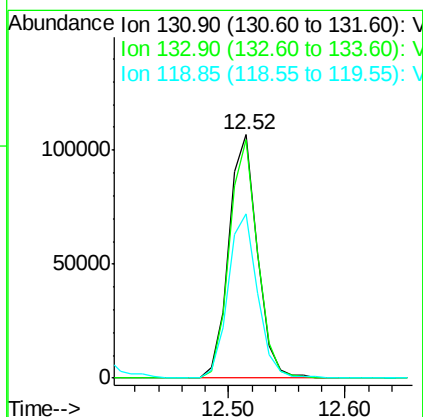
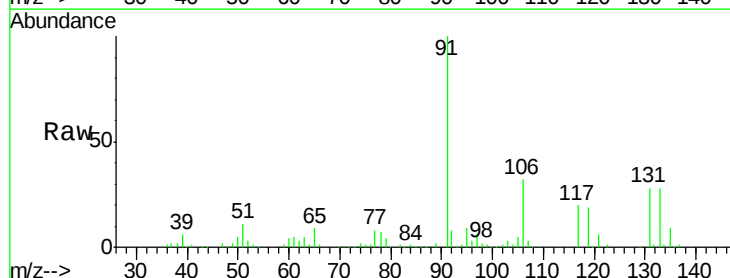
Instrument :
MSVOA_D
ClientSampleId :

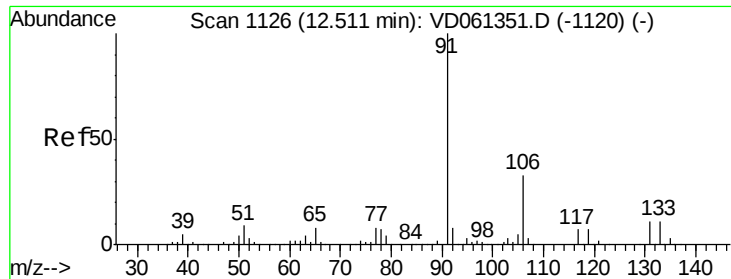
Tot Ion:112 Resp: 452989
Ion Ratio Lower Upper
112 100
114 31.5 26.6 39.8



#66
1,1,1,2-Tetrachloroethane
Concen: 22.266 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. 0.01 min
Lab File: VD061467.D
Acq: 1 Apr 2019 14:36

Tgt Ion:131 Resp: 181112
Ion Ratio Lower Upper
131 100
133 98.0 49.4 148.2
119 67.6 34.1 102.2

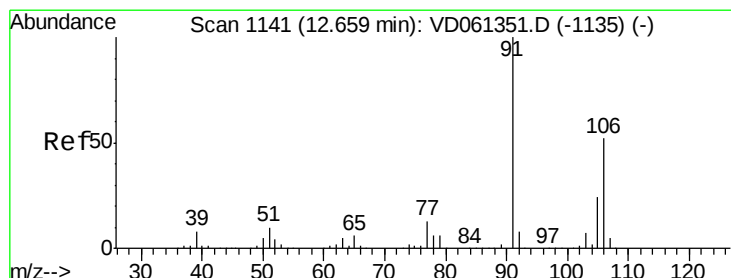
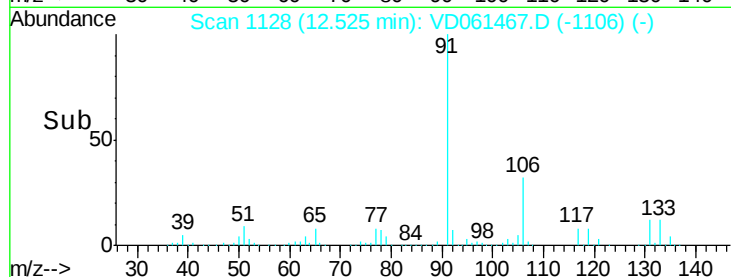
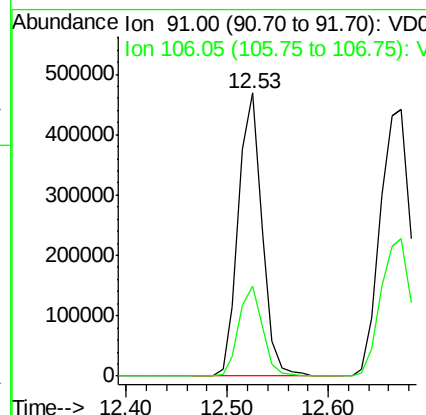
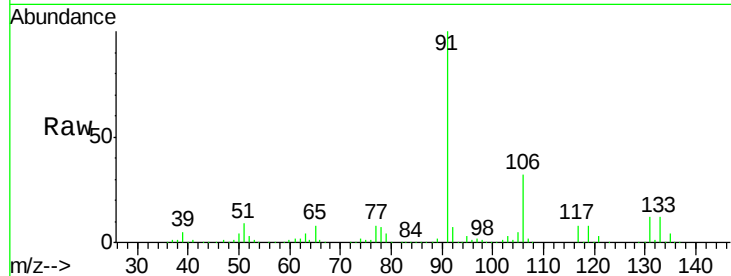




#67
Ethvl Benzene
Concen: 23.740 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. 0.01 min
Lab File: VD061467.D
Acq: 1 Apr 2019 14:36

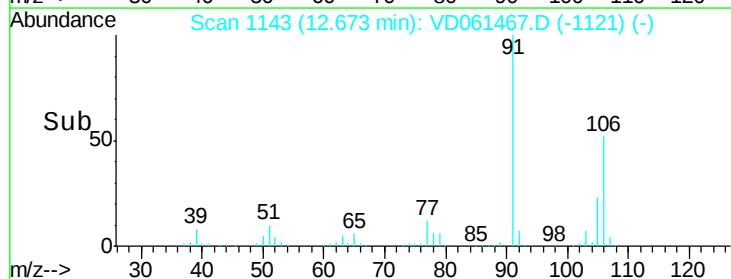
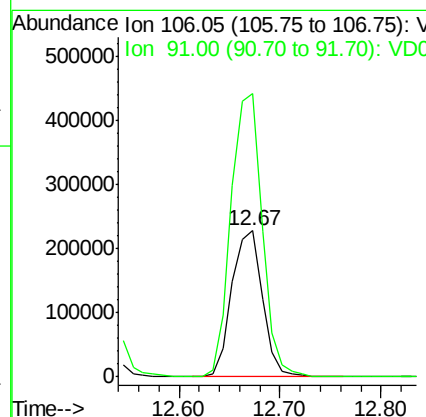
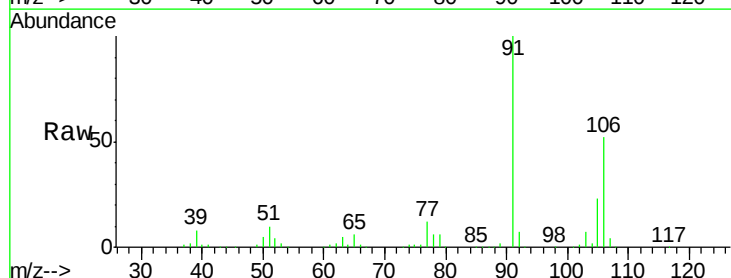
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 91 Resp: 761226
Ion Ratio Lower Upper
91 100
106 31.8 26.1 39.1



#68
m/p-Xylenes
Concen: 39.688 ug/l
RT: 12.67 min Scan# 1143
Delta R.T. 0.01 min
Lab File: VD061467.D
Acq: 1 Apr 2019 14:36

Tgt Ion:106 Resp: 482064
Ion Ratio Lower Upper
106 100
91 193.7 153.1 229.7

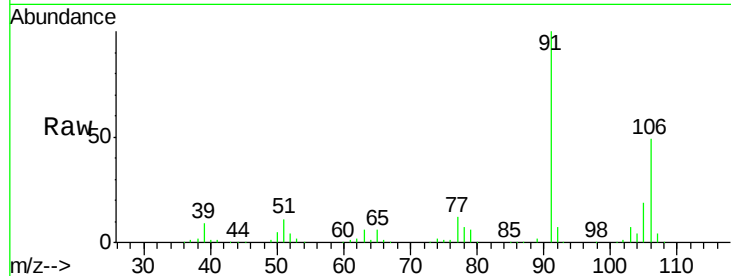




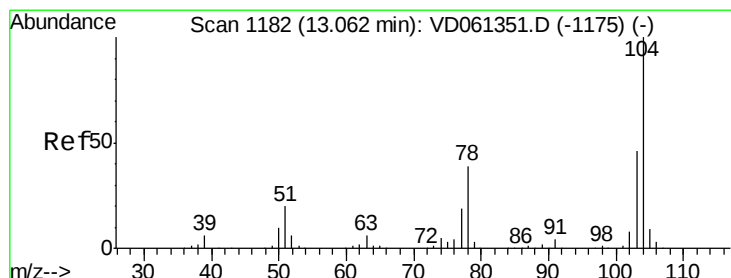
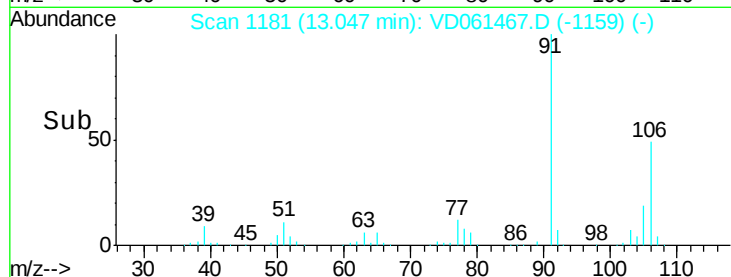
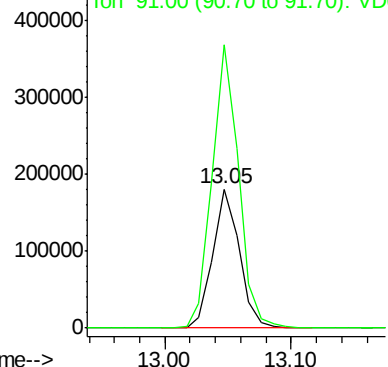
#69
o-Xylene
Concen: 22.299 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. 0.01 min
Lab File: VD061467.D
Acq: 1 Apr 2019 14:36

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:106 Resp: 262841
Ion Ratio Lower Upper
106 100
91 203.8 103.8 311.3

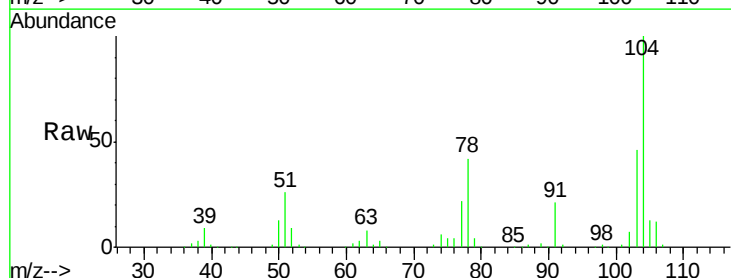


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

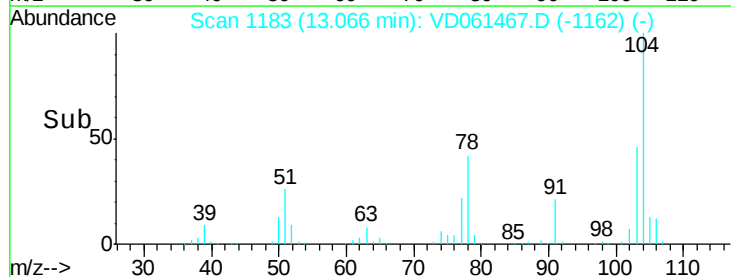
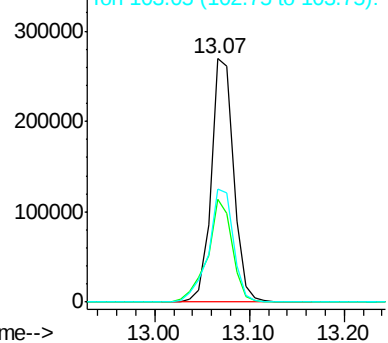


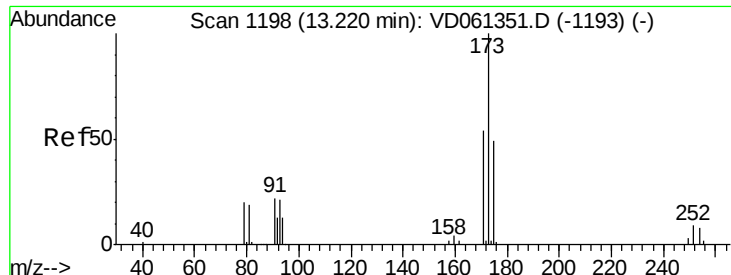
#70
Styrene
Concen: 21.571 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. 0.00 min
Lab File: VD061467.D
Acq: 1 Apr 2019 14:36

Tgt Ion:104 Resp: 443232
Ion Ratio Lower Upper
104 100
78 42.2 31.0 46.6
103 46.2 37.0 55.4



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

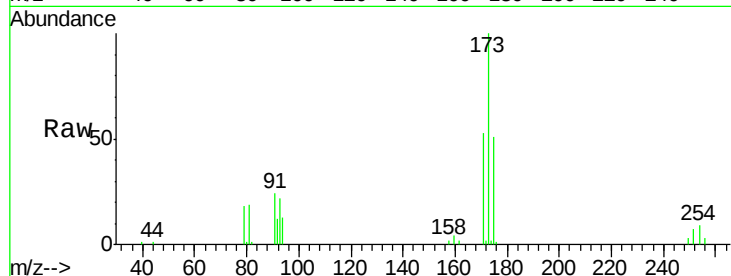




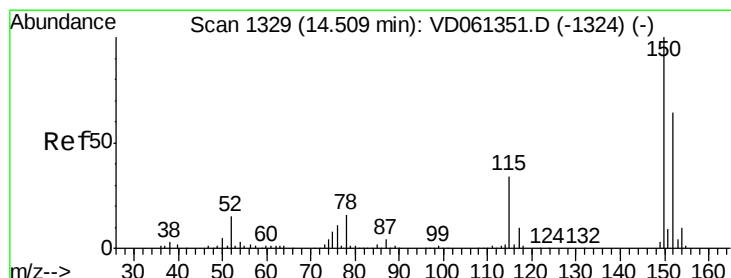
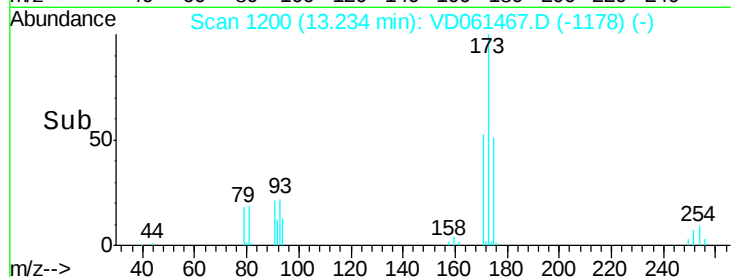
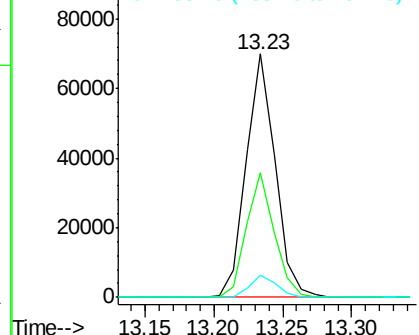
#71
Bromoform
Concen: 19.966 ug/l
RT: 13.23 min Scan# 1200
Delta R.T. 0.01 min
Lab File: VD061467.D
Acq: 1 Apr 2019 14:36

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:173 Resp: 102950
Ion Ratio Lower Upper
173 100
175 51.3 24.6 73.8
254 9.0 6.6 10.0

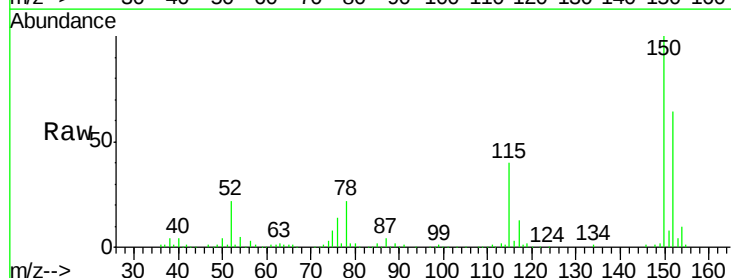


Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V

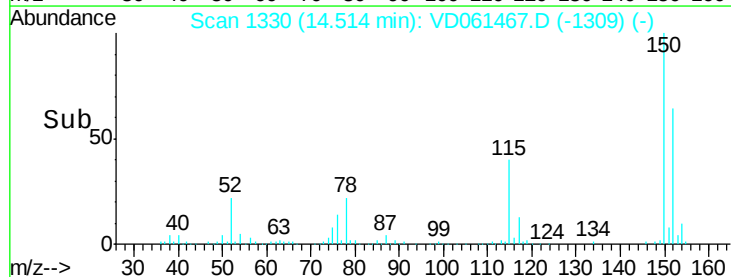
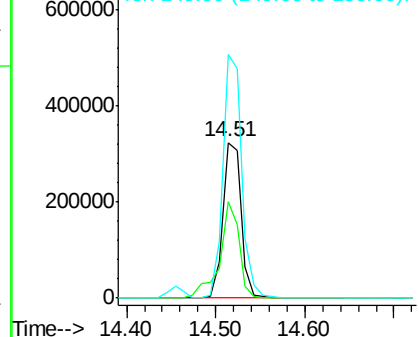


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD061467.D
Acq: 1 Apr 2019 14:36

Tgt Ion:152 Resp: 465746
Ion Ratio Lower Upper
152 100
115 61.9 26.9 80.6
150 156.2 0.0 318.0



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





#73

Isopropylbenzene

Concen: 22.207 ug/l

RT: 13.40 min Scan# 1217

Delta R.T. 0.01 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

Instrument :

MSVOA_D

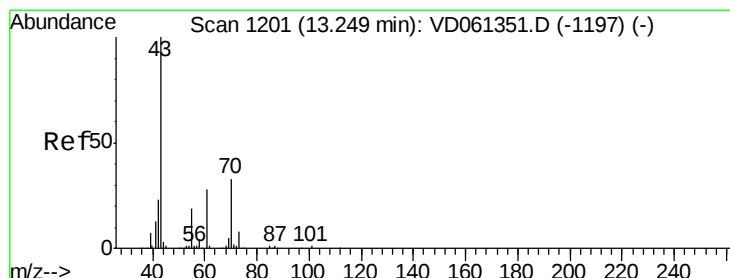
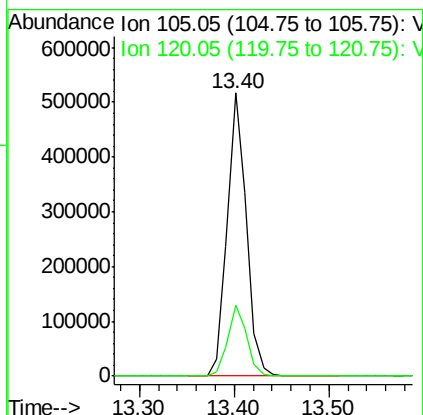
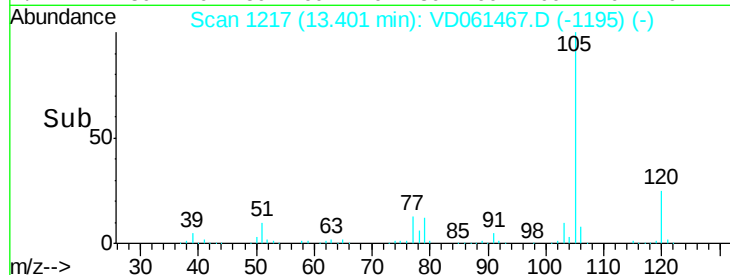
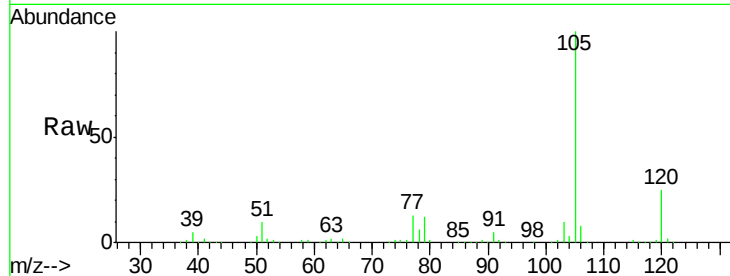
ClientSampled :

Tot Ion:105 Resp: 719850

Ion Ratio Lower Upper

105 100

120 25.0 12.8 38.3



#74

N-ethyl acetate

Concen: 20.286 ug/l

RT: 13.26 min Scan# 1203

Delta R.T. 0.01 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

Tgt Ion: 43 Resp: 183178

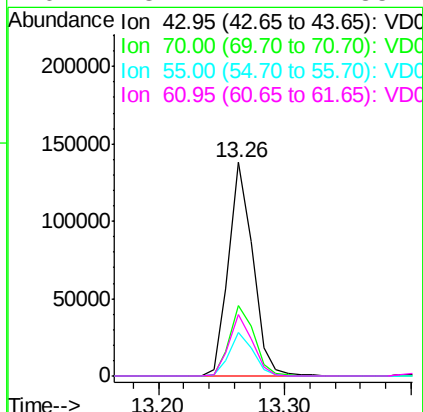
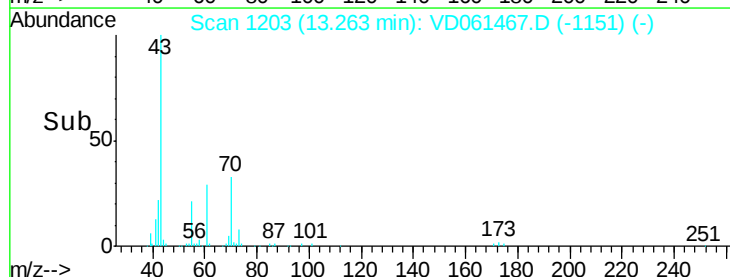
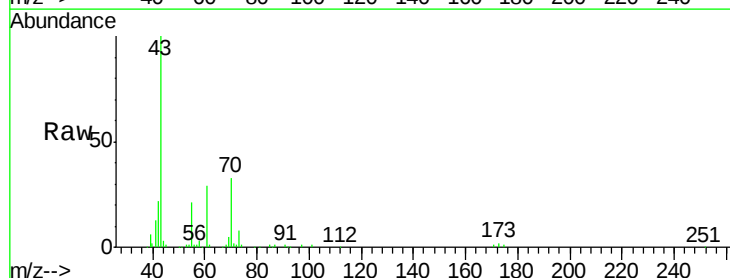
Ion Ratio Lower Upper

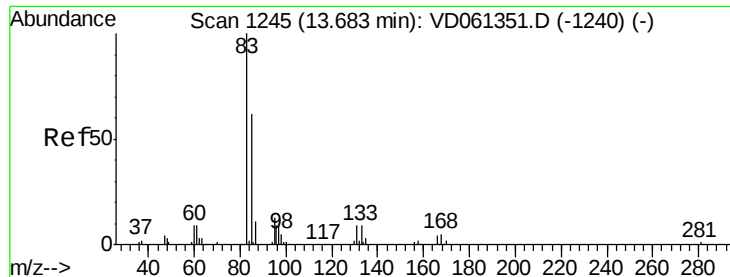
43 100

70 32.8 26.6 40.0

55 20.5 15.4 23.2

61 28.7 22.2 33.4





#75

1,1,2,2-Tetrachloroethane

Concen: 20.105 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. 0.01 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

Instrument :

MSVOA_D

ClientSampleId :

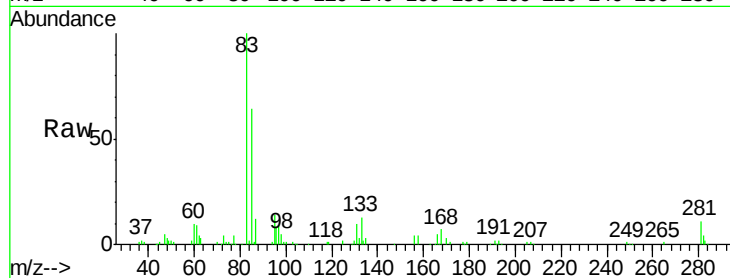
Tot Ion: 83 Resp: 137476

Ion Ratio Lower Upper

83 100

131 10.0 4.3 13.1

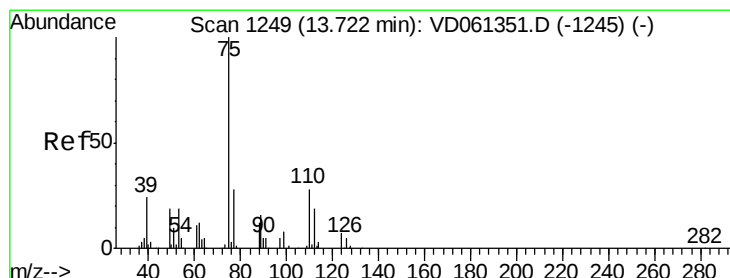
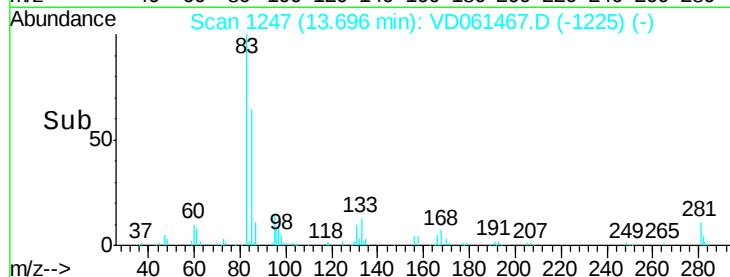
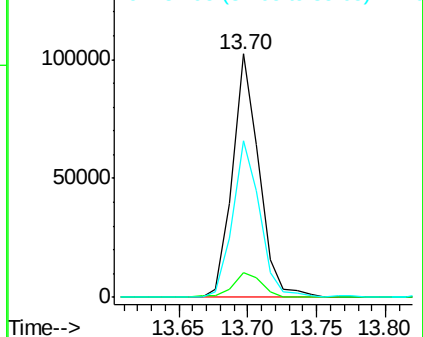
85 64.3 31.2 93.6



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 20.345 ug/l

RT: 13.74 min Scan# 1251

Delta R.T. 0.01 min

Lab File: VD061467.D

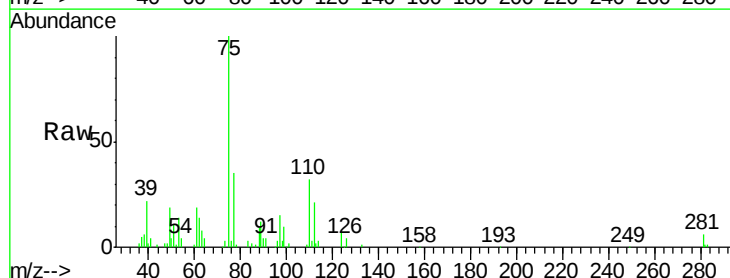
Acq: 1 Apr 2019 14:36

Tgt Ion: 75 Resp: 136875

Ion Ratio Lower Upper

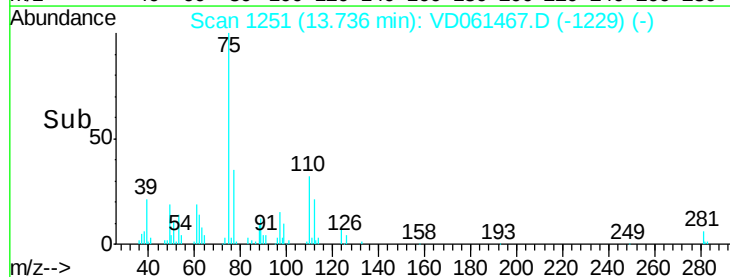
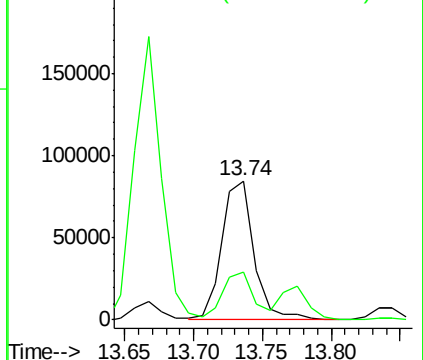
75 100

77 34.6 16.2 48.5



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 20.317 ug/l

RT: 13.67 min Scan# 1244

Delta R.T. 0.01 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

Instrument :

MSVOA_D

ClientSampleId :

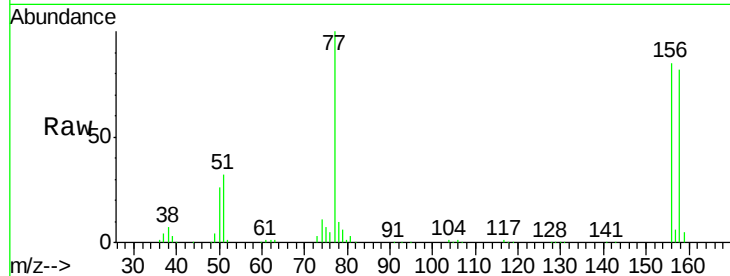
Tot Ion:156 Resp: 195239

Ion Ratio Lower Upper

156 100

77 117.4 68.5 205.6

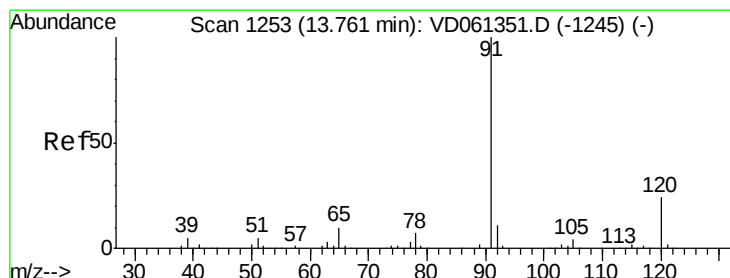
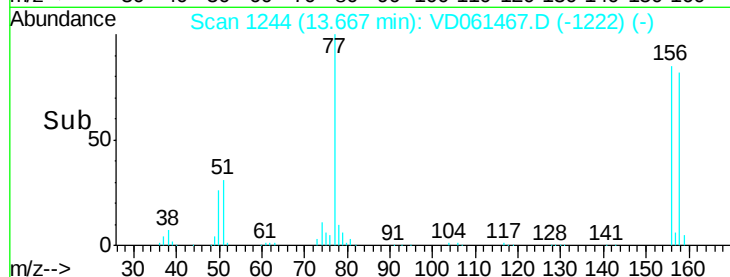
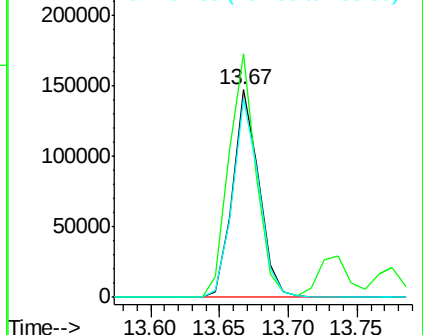
158 96.2 49.1 147.3



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: 21.418 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VD061467.D

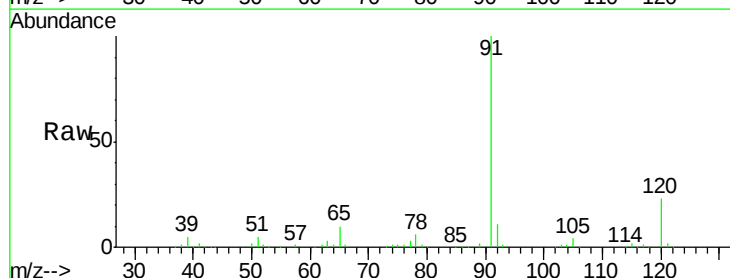
Acq: 1 Apr 2019 14:36

Tgt Ion: 91 Resp: 849619

Ion Ratio Lower Upper

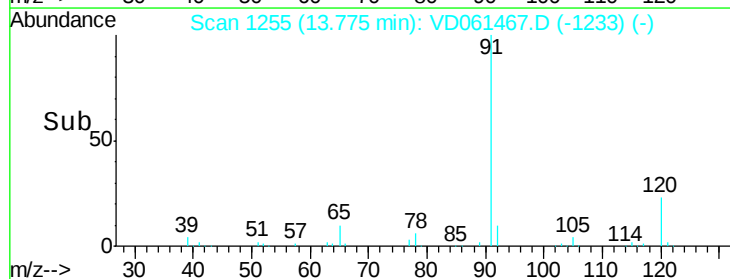
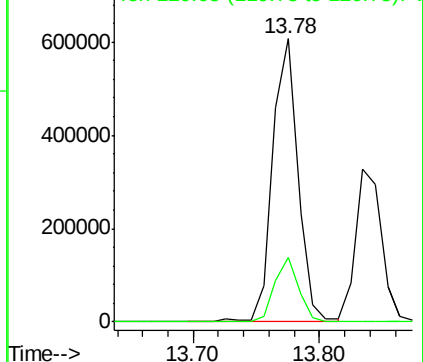
91 100

120 22.9 11.8 35.3



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 21.789 ug/l

RT: 13.83 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

Instrument :

MSVOA_D

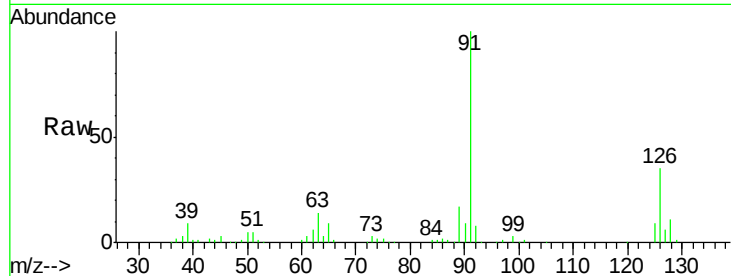
ClientSampleId :

Tot Ion: 91 Resp: 469328

Ion Ratio Lower Upper

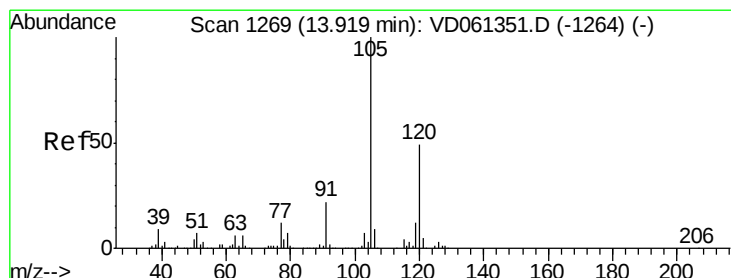
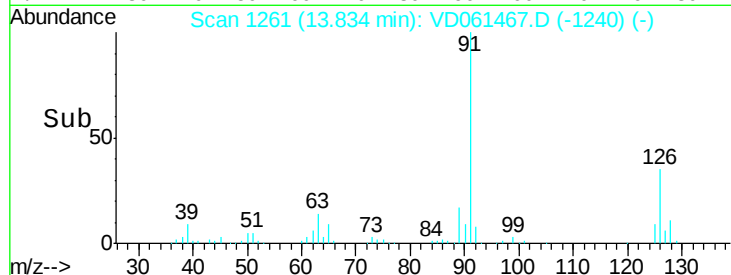
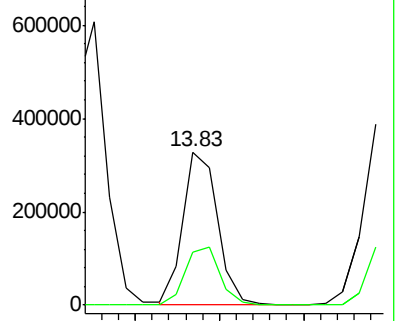
91 100

126 34.7 19.4 58.2



Abundance Ion 91.00 (90.70 to 91.70): VD061351.D (-1257) (-)

Ion 125.95 (125.65 to 126.65): VD061351.D (-1257) (-)



#80

1,3,5-Trimethylbenzene

Concen: 23.021 ug/l

RT: 13.93 min Scan# 1271

Delta R.T. 0.01 min

Lab File: VD061467.D

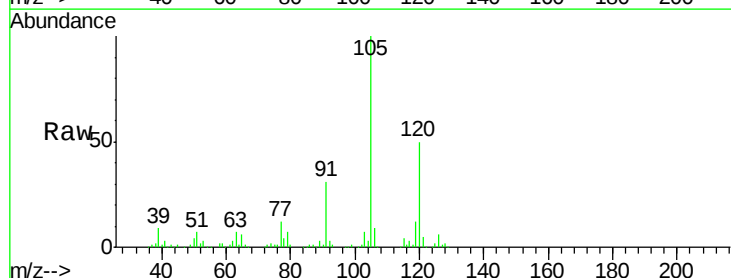
Acq: 1 Apr 2019 14:36

Tgt Ion:105 Resp: 579005

Ion Ratio Lower Upper

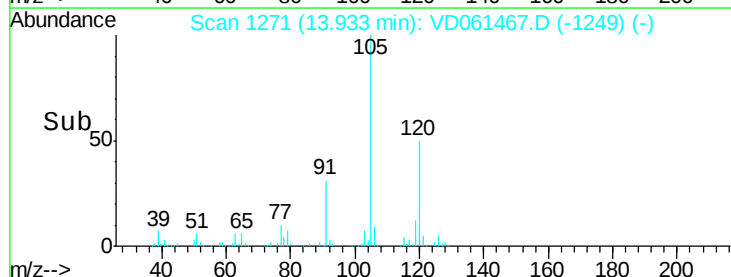
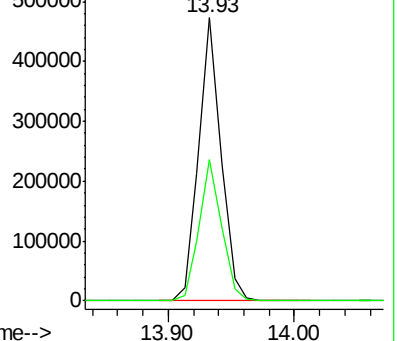
105 100

120 50.0 24.6 73.6



Abundance Ion 105.05 (104.75 to 105.75): VD061351.D (-1264) (-)

Ion 120.05 (119.75 to 120.75): VD061351.D (-1264) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 19.440 ug/l

RT: 13.47 min Scan# 1224

Delta R.T. 0.01 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

Instrument :

MSVOA_D

ClientSampleId :

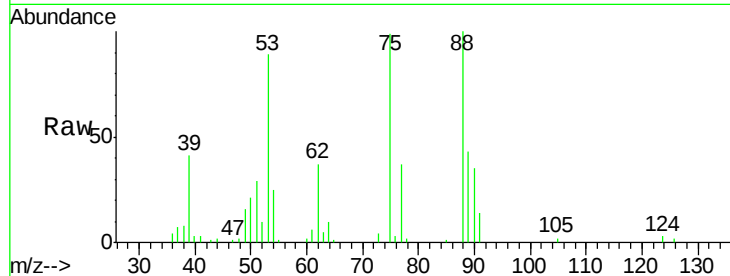
Tot Ion: 75 Resp: 39877

Ion Ratio Lower Upper

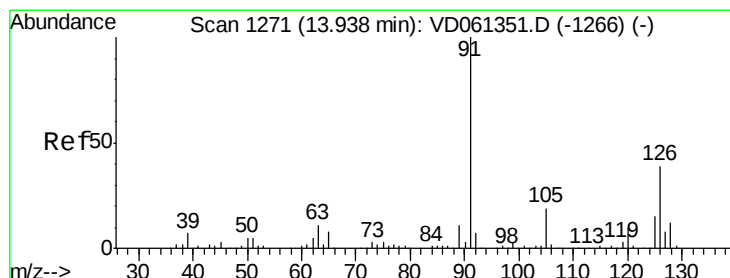
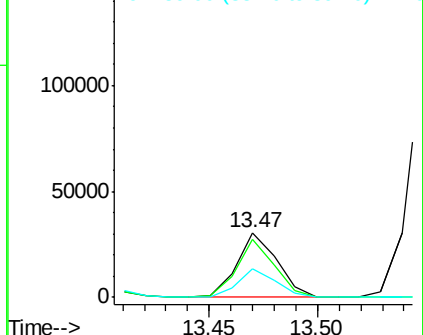
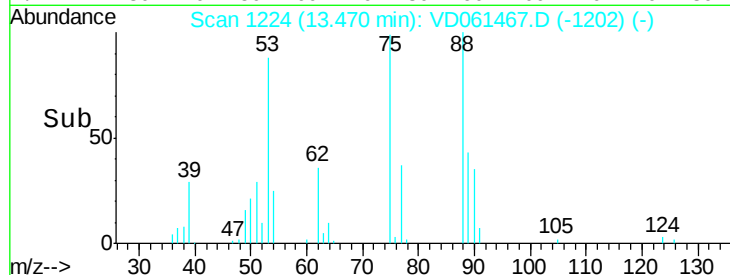
75 100

53 89.9 63.8 95.8

89 43.8 30.5 45.7



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: 23.421 ug/l

RT: 13.94 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VD061467.D

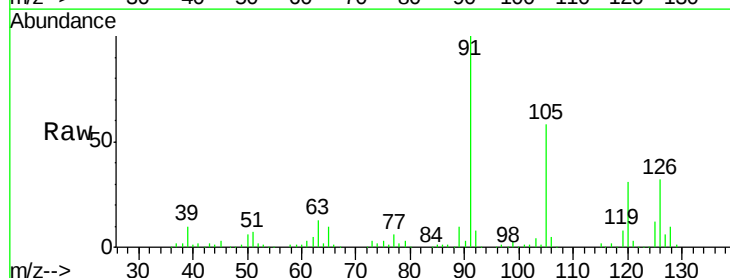
Acq: 1 Apr 2019 14:36

Tgt Ion: 91 Resp: 548517

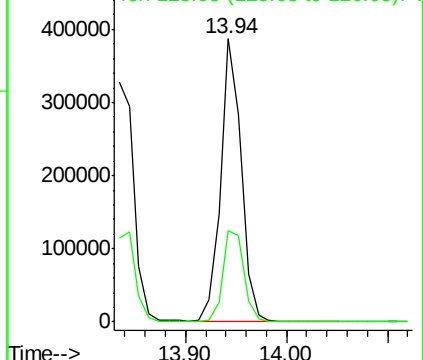
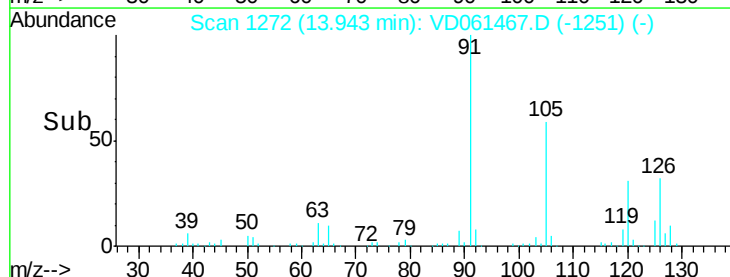
Ion Ratio Lower Upper

91 100

126 32.4 19.6 58.8



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

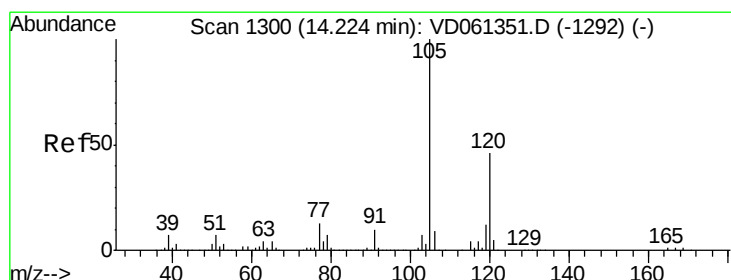
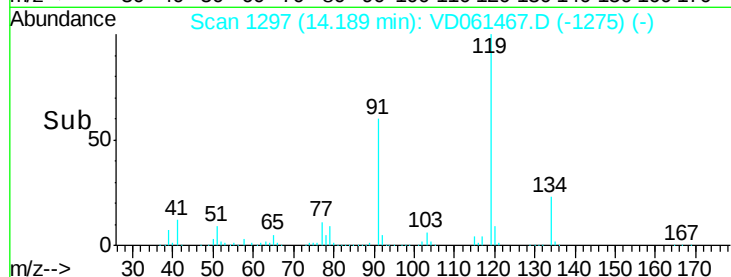
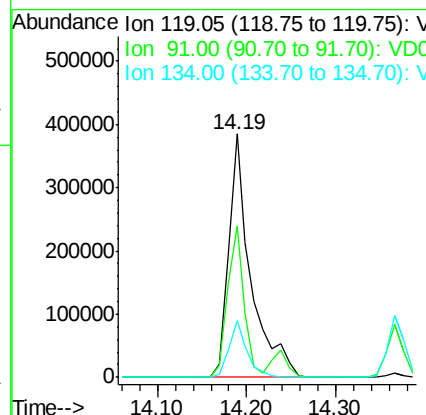
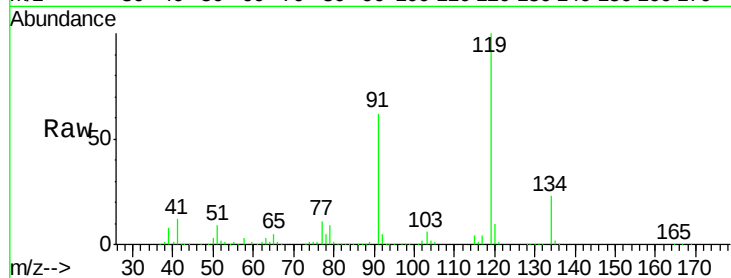




#83
tert-Butylbenzene
Concen: 21.341 ug/l
RT: 14.19 min Scan# 1297
Delta R.T. 0.01 min
Lab File: VD061467.D
Acq: 1 Apr 2019 14:36

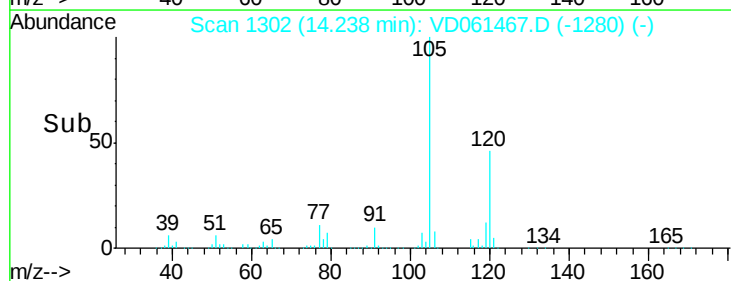
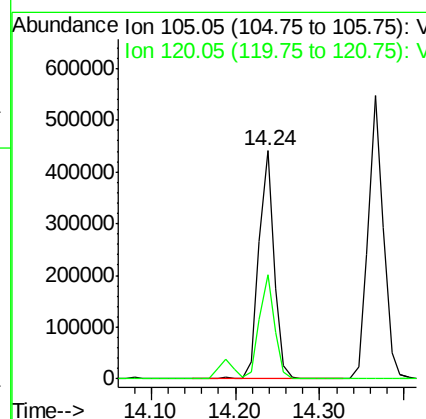
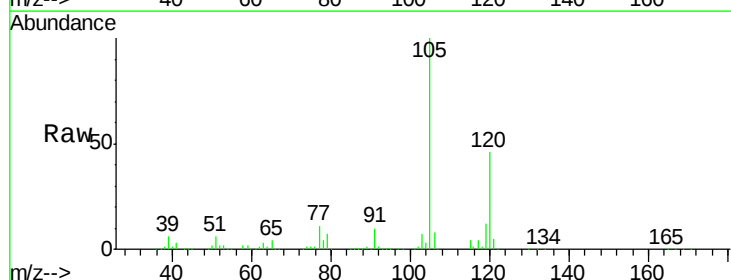
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:119 Resp: 670778
Ion Ratio Lower Upper
119 100
91 62.4 34.1 102.3
134 23.1 11.6 34.8



#84
1,2,4-Trimethylbenzene
Concen: 20.731 ug/l
RT: 14.24 min Scan# 1302
Delta R.T. 0.01 min
Lab File: VD061467.D
Acq: 1 Apr 2019 14:36

Tgt Ion:105 Resp: 564472
Ion Ratio Lower Upper
105 100
120 45.8 22.8 68.4





#85

sec-Butylbenzene

Concen: 20.572 ug/l

RT: 14.37 min Scan# 1315

Delta R.T. 0.01 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

Instrument :

MSVOA_D

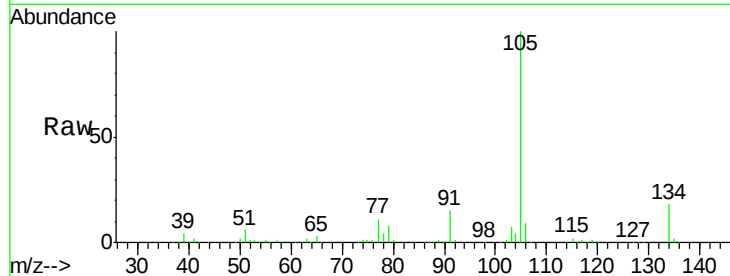
ClientSampled :

Tot Ion:105 Resp: 686908

Ion Ratio Lower Upper

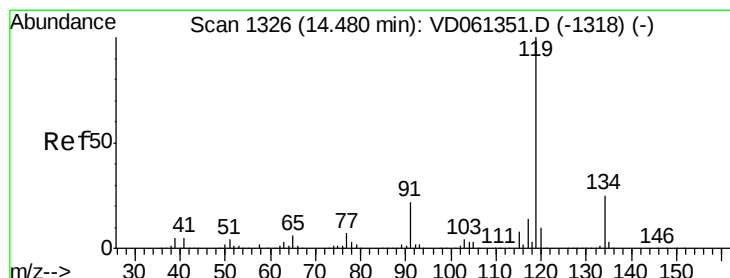
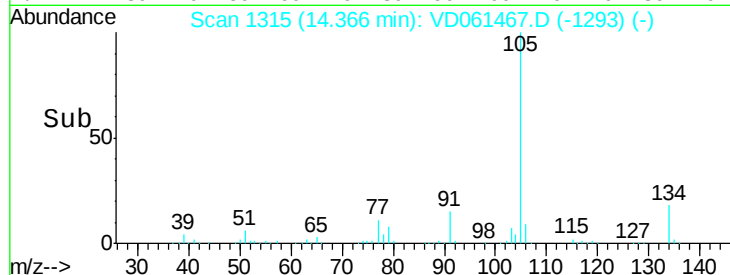
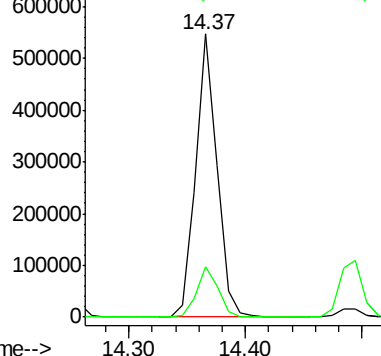
105 100

134 17.9 8.7 26.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 22.350 ug/l

RT: 14.49 min Scan# 1328

Delta R.T. 0.01 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

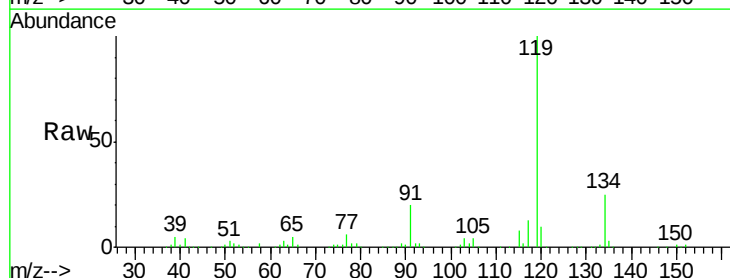
Tgt Ion:119 Resp: 631057

Ion Ratio Lower Upper

119 100

134 24.8 12.3 36.8

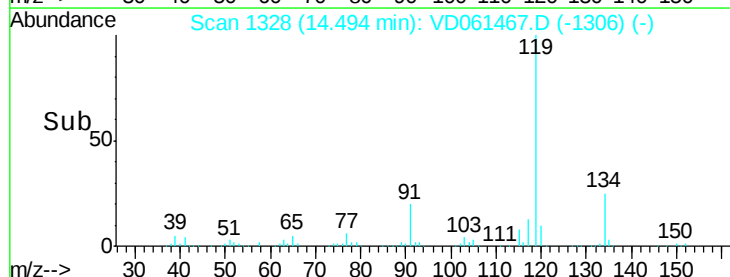
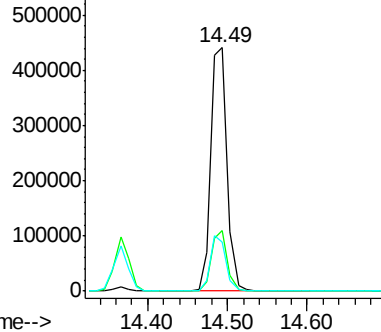
91 20.4 11.1 33.1



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

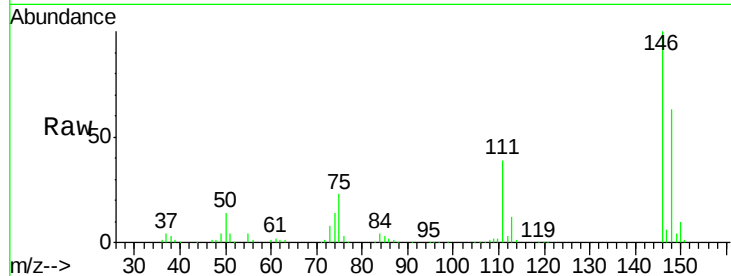




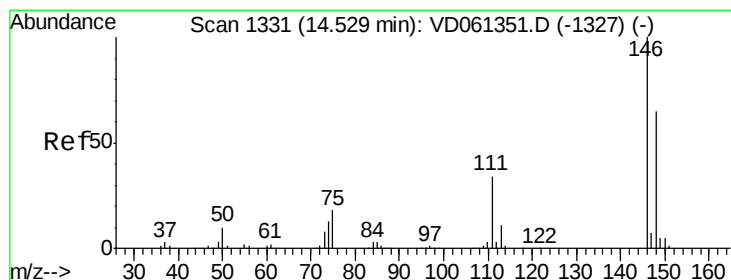
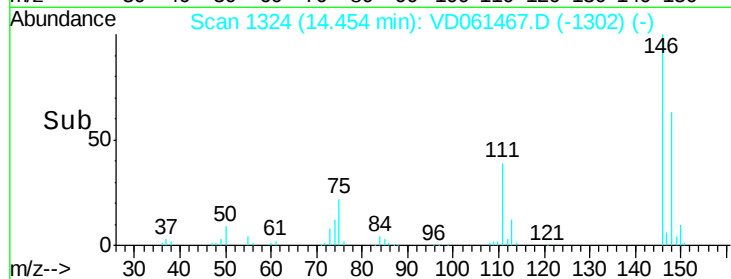
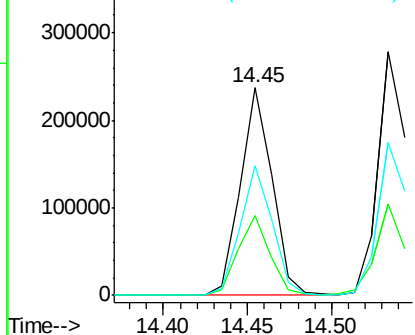
#87
 1,3-Dichlorobenzene
 Concen: 19.052 ug/l
 RT: 14.45 min Scan# 1324
 Delta R.T. 0.01 min
 Lab File: VD061467.D
 Acq: 1 Apr 2019 14:36

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion:146 Resp: 310038
 Ion Ratio Lower Upper
 146 100
 111 38.7 20.6 61.9
 148 62.6 31.1 93.3

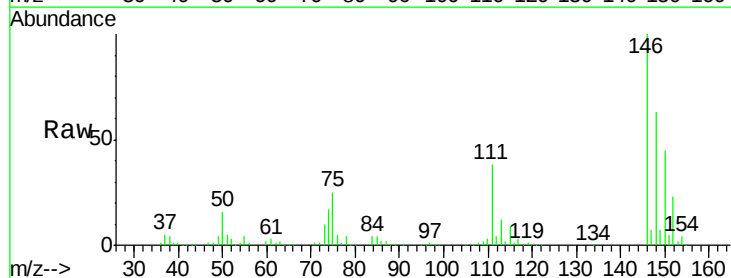


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

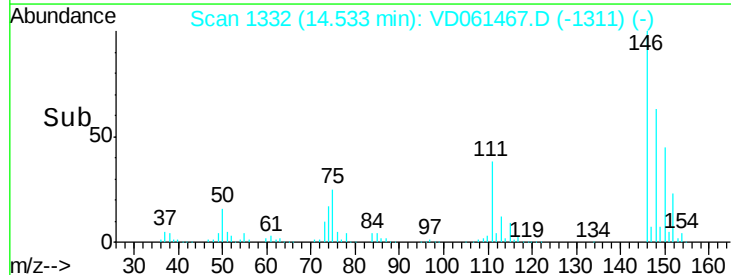
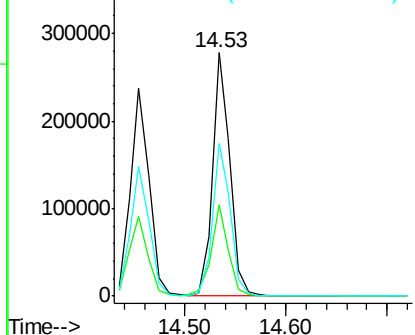


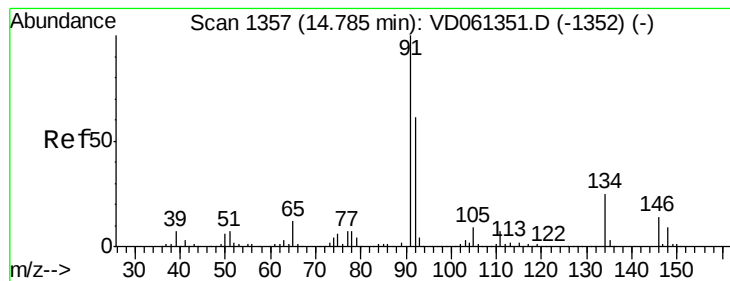
#88
 1,4-Dichlorobenzene
 Concen: 21.219 ug/l
 RT: 14.53 min Scan# 1332
 Delta R.T. 0.00 min
 Lab File: VD061467.D
 Acq: 1 Apr 2019 14:36

Tgt Ion:146 Resp: 336740
 Ion Ratio Lower Upper
 146 100
 111 37.7 16.8 50.4
 148 62.5 32.6 98.0



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





#89

n-Butylbenzene

Concen: 22.263 ug/l

RT: 14.80 min Scan# 1359

Delta R.T. 0.01 min

Lab File: VD061467.D

Acq: 1 Apr 2019 14:36

Instrument :

MSVOA_D

ClientSampleId :

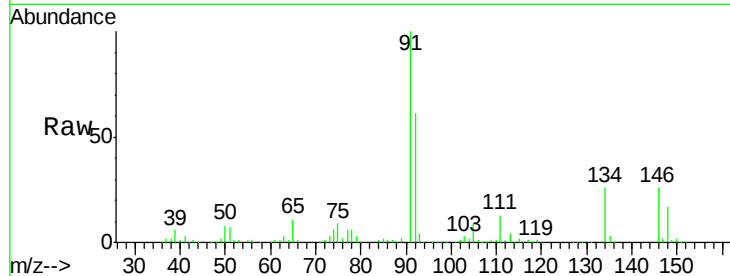
Tot Ion: 91 Resp: 576968

Ion Ratio Lower Upper

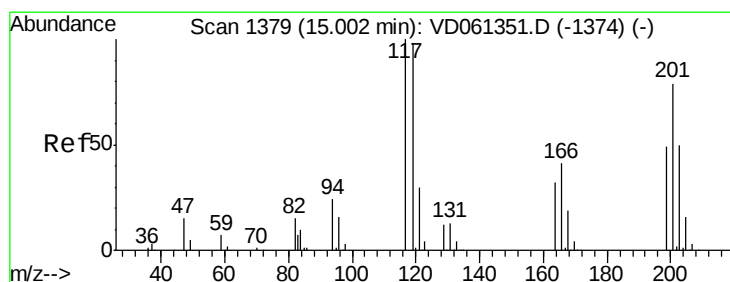
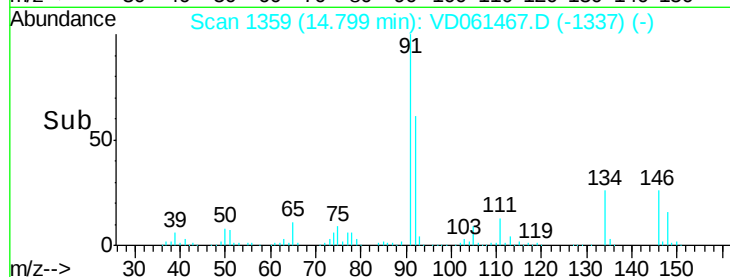
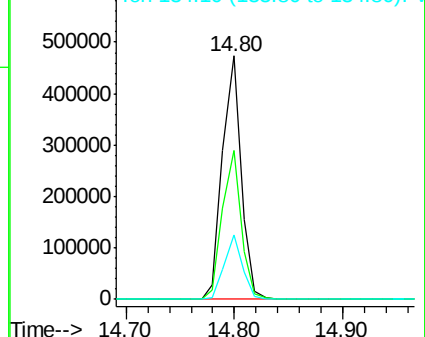
91 100

92 61.0 30.3 91.0

134 26.5 12.4 37.0



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 92.00 (91.70 to 92.70): VDC
Ion 134.10 (133.80 to 134.80): V



#90

Hexachloroethane

Concen: 22.805 ug/l

RT: 15.01 min Scan# 1380

Delta R.T. 0.00 min

Lab File: VD061467.D

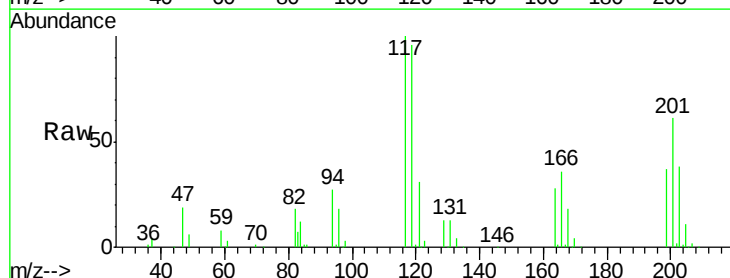
Acq: 1 Apr 2019 14:36

Tgt Ion: 117 Resp: 181909

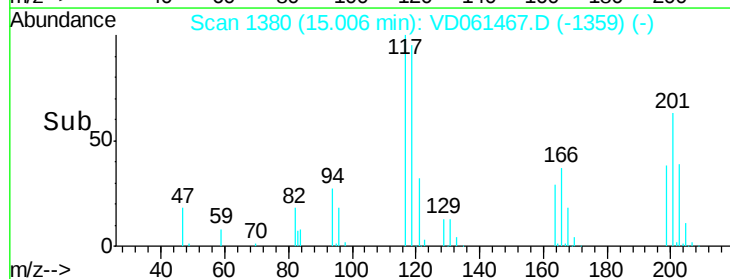
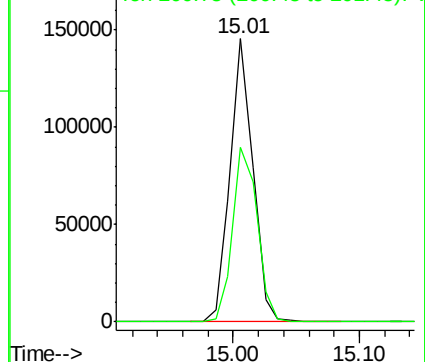
Ion Ratio Lower Upper

117 100

201 61.5 39.6 119.0



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 200.75 (200.45 to 201.45): V

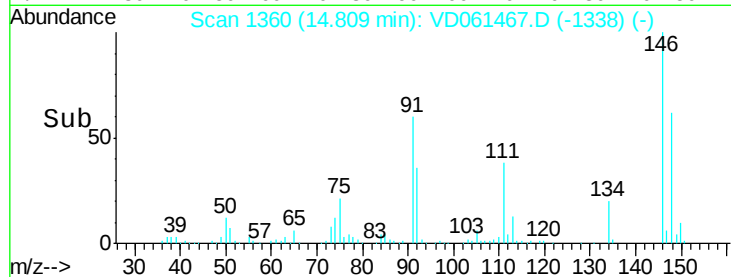
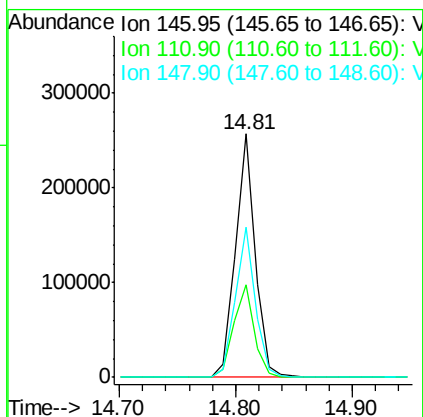
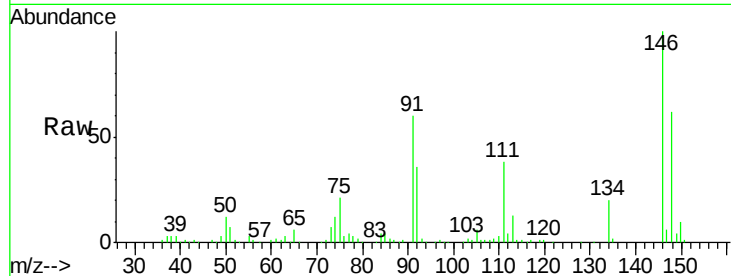




#91
 1,2-Dichlorobenzene
 Concen: 22.677 ug/l
 RT: 14.81 min Scan# 1360
 Delta R.T. 0.01 min
 Lab File: VD061467.D
 Acq: 1 Apr 2019 14:36

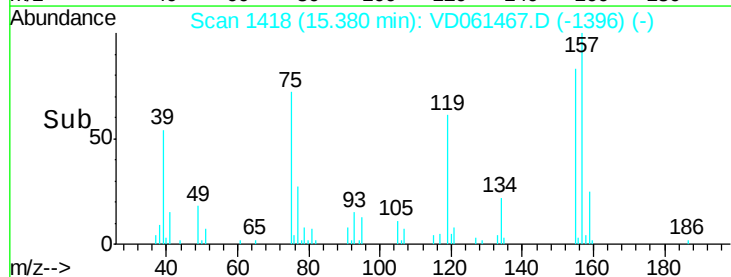
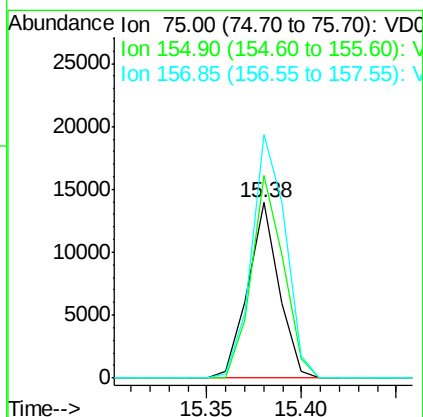
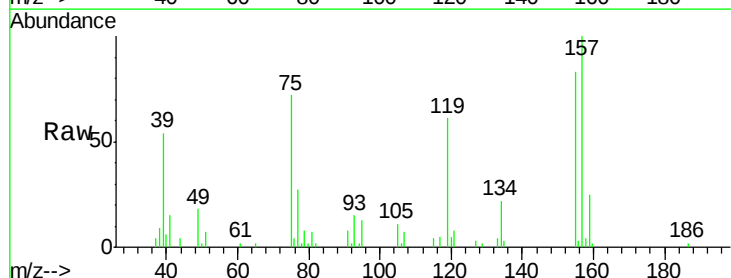
Instrument :
 MSVOA_D
 ClientSampleId :

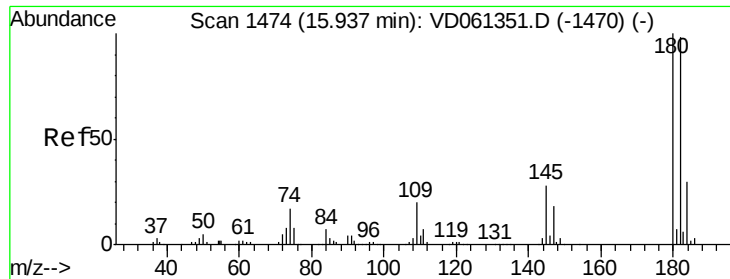
Tot Ion:146 Resp: 302696
 Ion Ratio Lower Upper
 146 100
 111 38.2 21.2 63.6
 148 61.7 31.6 95.0



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.817 ug/l
 RT: 15.38 min Scan# 1418
 Delta R.T. 0.01 min
 Lab File: VD061467.D
 Acq: 1 Apr 2019 14:36

Tgt Ion: 75 Resp: 15893
 Ion Ratio Lower Upper
 75 100
 155 115.1 43.6 130.9
 157 138.6 58.5 175.3

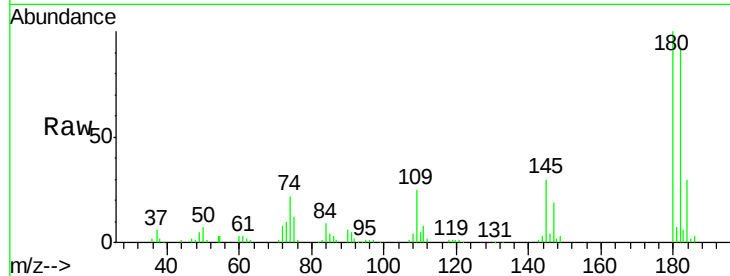




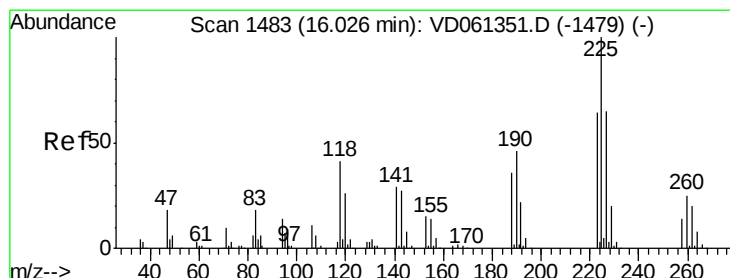
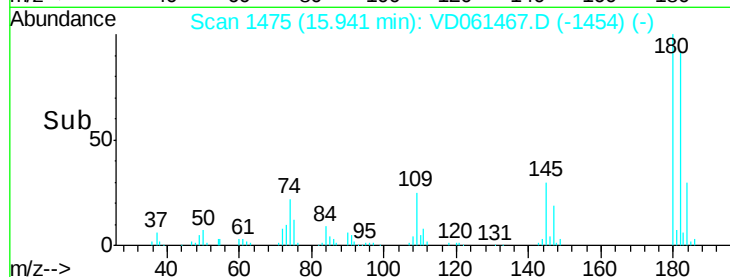
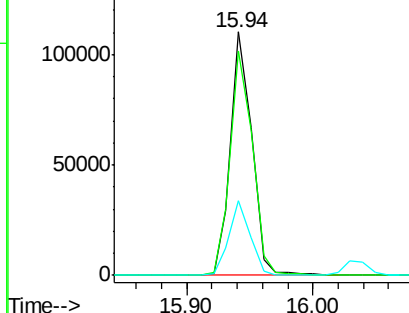
#93
 1,2,4-Trichlorobenzene
 Concen: 21.285 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. 0.00 min
 Lab File: VD061467.D
 Acq: 1 Apr 2019 14:36

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion:180 Resp: 129426
 Ion Ratio Lower Upper
 180 100
 182 92.0 48.9 146.8
 145 30.4 14.1 42.3

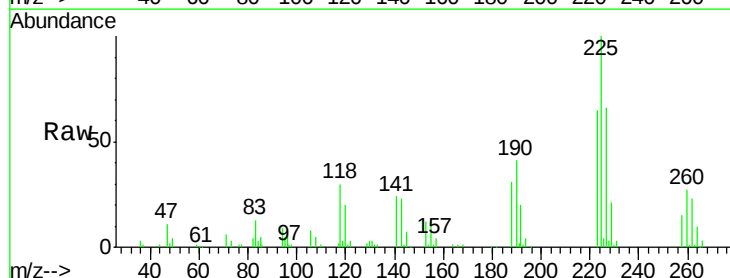


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

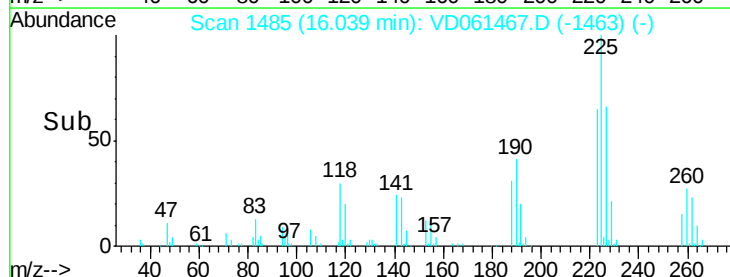
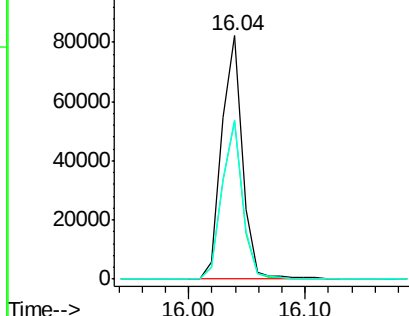


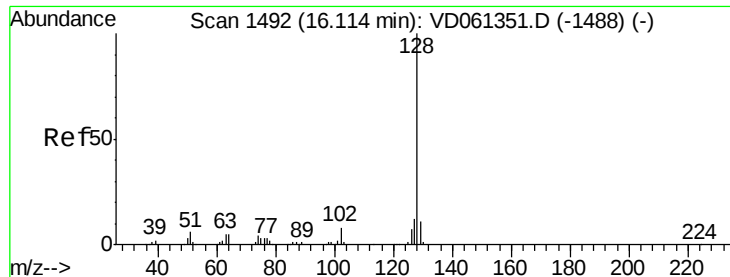
#94
 Hexachlorobutadiene
 Concen: 21.302 ug/l
 RT: 16.04 min Scan# 1485
 Delta R.T. 0.01 min
 Lab File: VD061467.D
 Acq: 1 Apr 2019 14:36

Tgt Ion:225 Resp: 101218
 Ion Ratio Lower Upper
 225 100
 223 64.8 32.0 96.0
 227 65.6 32.4 97.2



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

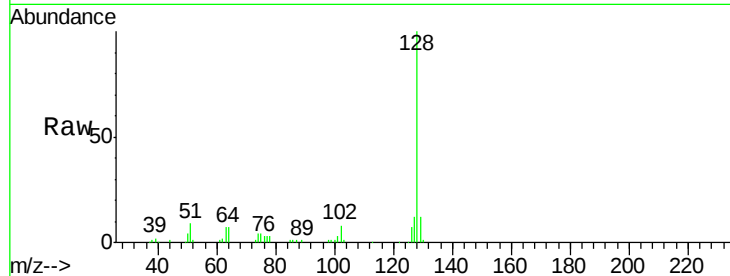




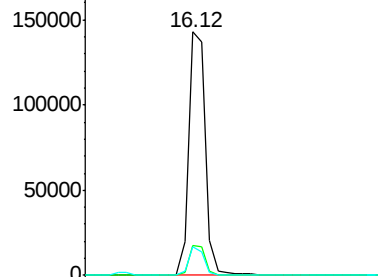
#95
Naphthalene
Concen: 20.998 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. 0.00 min
Lab File: VD061467.D
Acq: 1 Apr 2019 14:36

Instrument :
MSVOA_D
ClientSampleId :

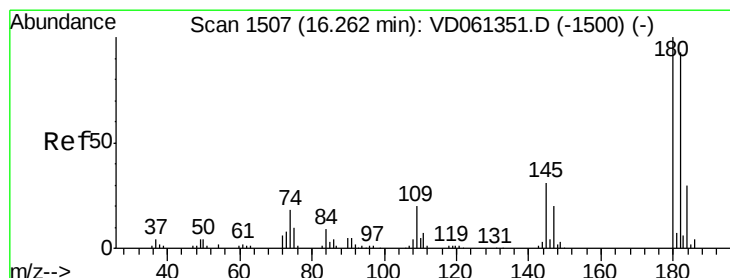
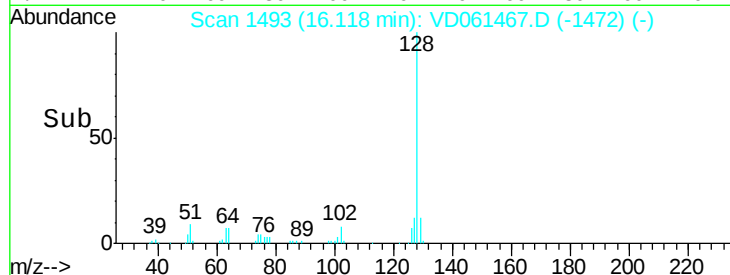
Tot Ion:128 Resp: 194619
Ion Ratio Lower Upper
128 100
127 12.2 9.9 14.9
129 11.5 8.9 13.3



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

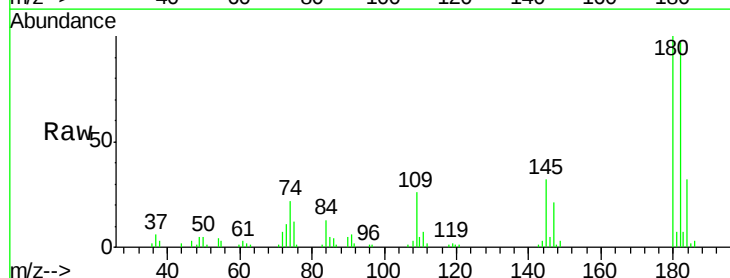


Time--> 16.00 16.10 16.20 16.30

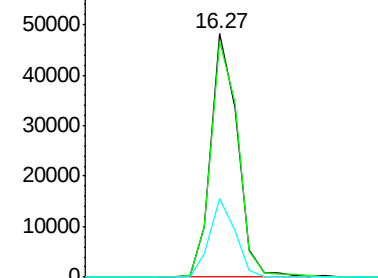


#96
1,2,3-Trichlorobenzene
Concen: 22.044 ug/l
RT: 16.27 min Scan# 1508
Delta R.T. 0.00 min
Lab File: VD061467.D
Acq: 1 Apr 2019 14:36

Tgt Ion:180 Resp: 58984
Ion Ratio Lower Upper
180 100
182 97.0 46.4 139.1
145 32.4 15.3 45.9



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



Time--> 16.20 16.25 16.30 16.35

