

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032819\
 Data File : VD061389.D
 Acq On : 28 Mar 2019 14:01
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Quant Time: Mar 28 14:24:40 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	7.04	168	803999	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.21	114	1255107	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.36	117	1104439	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	457924	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	317072	46.17	ug/l	0.01
Spiked Amount			Recovery	=	92.34%	
35) Dibromofluoromethane	6.92	113	497426	51.86	ug/l	0.02
Spiked Amount			Recovery	=	103.72%	
50) Toluene-d8	10.40	98	1176570	51.15	ug/l	0.01
Spiked Amount			Recovery	=	102.30%	
62) 4-Bromofluorobenzene	13.55	95	474059	53.74	ug/l	0.00
Spiked Amount			Recovery	=	107.48%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.59	85	419494	48.856	ug/l	98
3) Chloromethane	1.77	50	325518	46.485	ug/l	99
4) Vinyl Chloride	1.86	62	285489	44.402	ug/l	98
5) Bromomethane	2.16	94	63090	49.483	ug/l	97
6) Chloroethane	2.28	64	105699	56.058	ug/l	98
7) Trichlorofluoromethane	2.54	101	479556	51.291	ug/l	100
8) Diethyl Ether	2.88	74	137725	45.752	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.16	101	503503	50.092	ug/l	99
10) Methyl Iodide	3.32	142	703200	46.294	ug/l	97
11) Tert butyl alcohol	4.06	59	99071	231.625	ug/l #	95
12) 1,1-Dichloroethene	3.14	96	424442	49.183	ug/l	92
13) Acrolein	3.05	56	84140	259.013	ug/l	100
14) Allyl chloride	3.63	41	602869	50.086	ug/l	96
15) Acrylonitrile	4.20	53	347029	233.762	ug/l	98
16) Acetone	3.22	43	498705	282.464	ug/l	97
17) Carbon Disulfide	3.38	76	1362934	48.609	ug/l	100
18) Methyl Acetate	3.65	43	163444	44.029	ug/l	99
19) Methyl tert-butyl Ether	4.24	73	705104	47.201	ug/l	99
20) Methylene Chloride	3.82	84	512784	51.919	ug/l	98
21) trans-1,2-Dichloroethene	4.23	96	455981	48.940	ug/l	99
22) Diisopropyl ether	5.12	45	1222795	48.007	ug/l	97
23) Vinyl Acetate	5.05	43	3336227	241.128	ug/l	98
24) 1,1-Dichloroethane	4.98	63	744962	49.766	ug/l	98
25) 2-Butanone	6.06	43	532457	239.747	ug/l	98
26) 2,2-Dichloropropane	6.03	77	579300	48.682	ug/l	97
27) cis-1,2-Dichloroethene	6.04	96	476268	46.656	ug/l	96
28) Bromochloromethane	6.43	49	290667	48.103	ug/l #	100
29) Tetrahydrofuran	6.45	42	256920	238.670	ug/l	99
30) Chloroform	6.66	83	761750	49.249	ug/l	99
31) Cyclohexane	6.95	56	576370	48.724	ug/l	98
32) 1,1,1-Trichloroethane	6.87	97	656051	48.078	ug/l	97
36) 1,1-Dichloropropene	7.14	75	597542	54.549	ug/l	98
37) Ethyl Acetate	6.18	43	231890	49.498	ug/l	99
38) Carbon Tetrachloride	7.11	117	740817	58.853	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.86	83	632865	55.472	ug/l	97
40) Benzene	7.45	78	1433740	52.151	ug/l	98
41) Methacrylonitrile	6.43	41	292581	53.413	ug/l #	91
42) 1,2-Dichloroethane	7.57	62	403038	49.010	ug/l	100
43) Isopropyl Acetate	9.23	43	371159	54.451	ug/l #	97
44) Trichloroethene	8.53	130	549723	53.730	ug/l	99
45) 1,2-Dichloropropane	8.93	63	364203	52.244	ug/l	96
46) Dibromomethane	9.05	93	255930	54.544	ug/l	93
47) Bromodichloromethane	9.37	83	561098	53.279	ug/l	98
48) Methyl methacrylate	9.11	41	194669	51.748	ug/l	97
49) 1,4-Dioxane	9.07	88	45593	1098.803	ug/l	95
51) 4-Methyl-2-Pentanone	10.29	43	1029040	248.138	ug/l	98
52) Toluene	10.50	92	859786	51.262	ug/l	100
53) t-1,3-Dichloropropene	10.90	75	495939	51.832	ug/l	100
54) cis-1,3-Dichloropropene	10.03	75	587243	50.403	ug/l	96
55) 1,1,2-Trichloroethane	11.18	97	300738	51.271	ug/l	98
56) Ethyl methacrylate	11.03	69	317166	50.334	ug/l	94
57) 1,3-Dichloropropane	11.40	76	426336	49.451	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.85	63	756886	246.648	ug/l	100
59) 2-Hexanone	11.52	43	771271	256.692	ug/l	98
60) Dibromochloromethane	11.68	129	461004	50.982	ug/l	99
61) 1,2-Dibromoethane	11.80	107	337372	49.671	ug/l	98
64) Tetrachloroethene	11.25	164	394971	45.567	ug/l	98
65) Chlorobenzene	12.39	112	1108735	49.122	ug/l	98
66) 1,1,1,2-Tetrachloroethane	12.51	131	409362	46.842	ug/l	98
67) Ethyl Benzene	12.52	91	1551154	45.024	ug/l	99
68) m/p-Xylenes	12.66	106	1263434	96.811	ug/l	100
69) o-Xylene	13.04	106	591078	46.672	ug/l	97
70) Styrene	13.07	104	982309	44.495	ug/l	97
71) Bromoform	13.22	173	244108	44.064	ug/l	97
73) Isopropylbenzene	13.40	105	1653027	51.866	ug/l	98
74) N-amyl acetate	13.26	43	425213	47.893	ug/l	98
75) 1,1,2,2-Tetrachloroethane	13.70	83	316470	47.071	ug/l	94
76) 1,2,3-Trichloropropane	13.73	75	322062	48.688	ug/l	99
77) Bromobenzene	13.67	156	444479	47.043	ug/l	82
78) n-propylbenzene	13.77	91	1910261	48.978	ug/l	97
79) 2-Chlorotoluene	13.83	91	1048024	49.488	ug/l	99
80) 1,3,5-Trimethylbenzene	13.92	105	1289533	52.148	ug/l	100
81) trans-1,4-Dichloro-2-buten	13.47	75	104591	51.858	ug/l	94
82) 4-Chlorotoluene	13.94	91	1115374	48.438	ug/l	98
83) tert-Butylbenzene	14.18	119	1538643	49.788	ug/l	99
84) 1,2,4-Trimethylbenzene	14.23	105	1273922	47.585	ug/l	99
85) sec-Butylbenzene	14.36	105	1682451	51.247	ug/l	100
86) p-Isopropyltoluene	14.48	119	1346838	48.515	ug/l	100
87) 1,3-Dichlorobenzene	14.45	146	787187	49.199	ug/l	100
88) 1,4-Dichlorobenzene	14.53	146	779287	49.944	ug/l	98
89) n-Butylbenzene	14.79	91	1195081	46.902	ug/l	100
90) Hexachloroethane	15.00	117	399804	50.977	ug/l	65
91) 1,2-Dichlorobenzene	14.80	146	611237	46.574	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	15.37	75	40326	51.141	ug/l	95

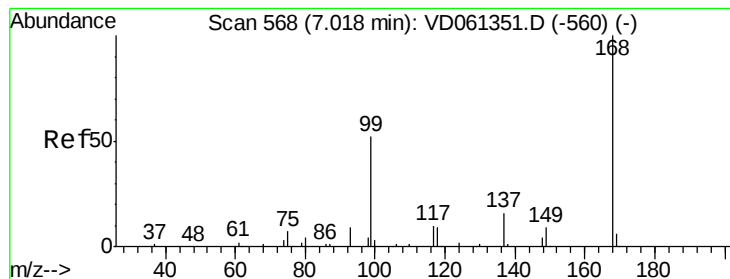
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	247925	41.470	ug/l	96
94) Hexachlorobutadiene	16.03	225	220934	47.292	ug/l	97
95) Naphthalene	16.12	128	397080	43.575	ug/l	99
96) 1,2,3-Trichlorobenzene	16.27	180	105303	40.028	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.02 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

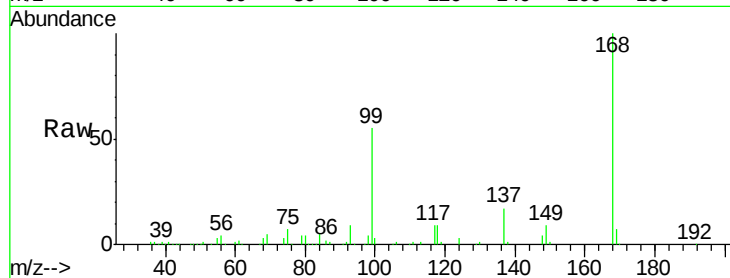
VSTDCCC050

Tot Ion:168 Resp: 803999

Ion Ratio Lower Upper

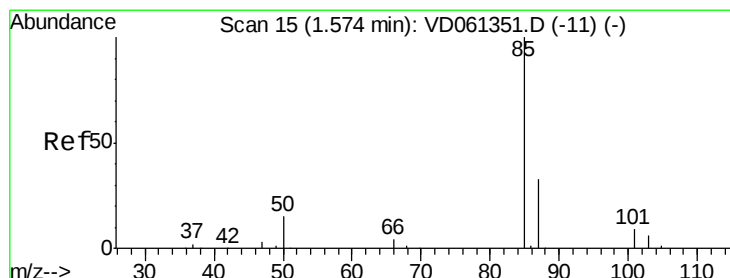
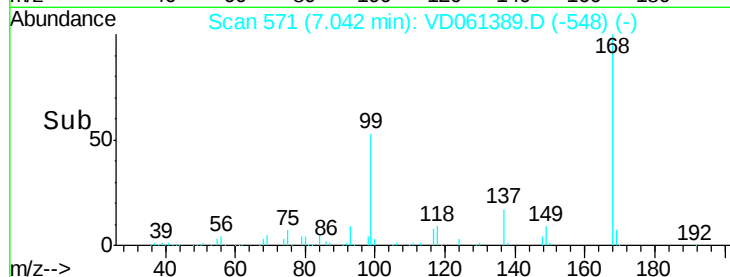
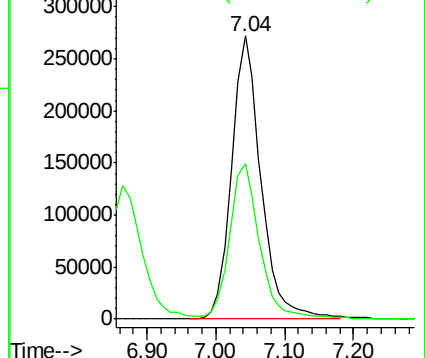
168 100

99 55.1 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: 48.856 ug/l

RT: 1.59 min Scan# 17

Delta R.T. 0.01 min

Lab File: VD061389.D

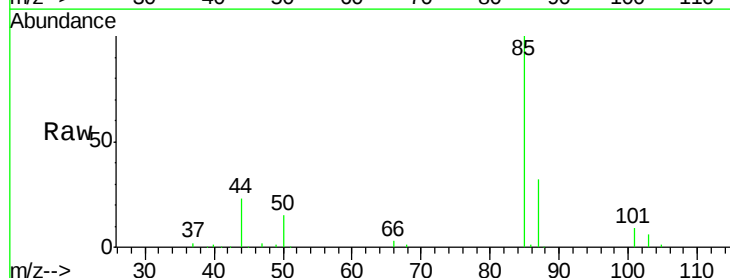
Acq: 28 Mar 2019 14:01

Tgt Ion: 85 Resp: 419494

Ion Ratio Lower Upper

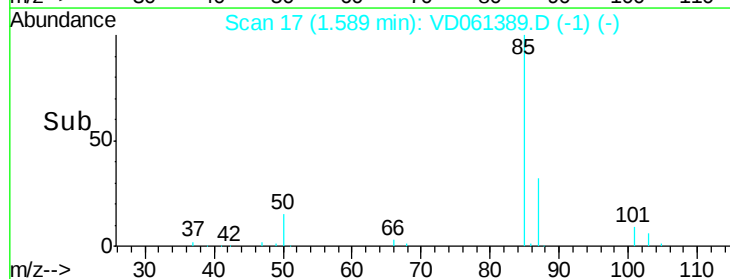
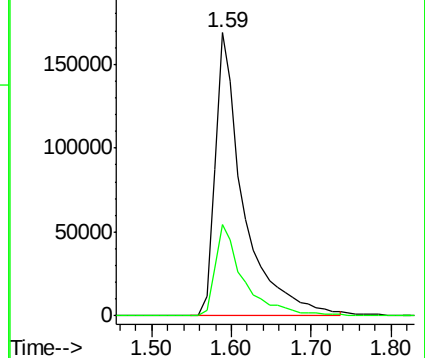
85 100

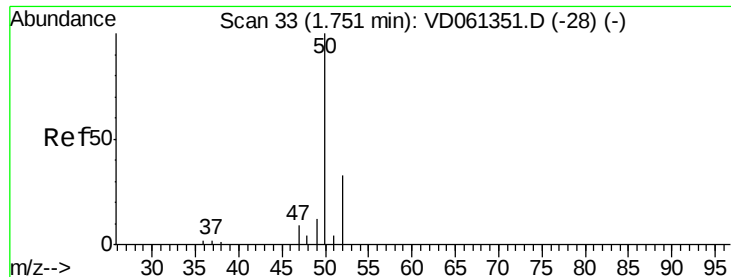
87 32.1 16.6 49.7



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 46.485 ug/l

RT: 1.77 min Scan# 35

Delta R.T. 0.01 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

Instrument :

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ClientSampleId :

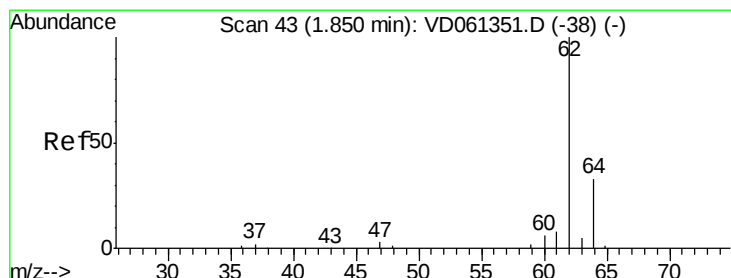
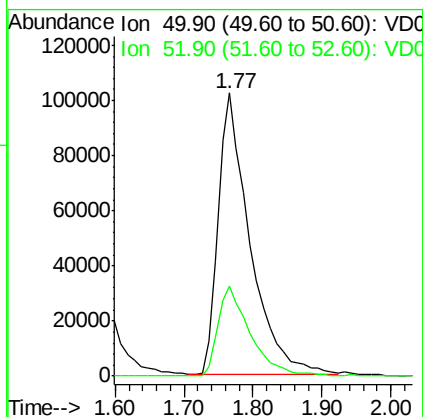
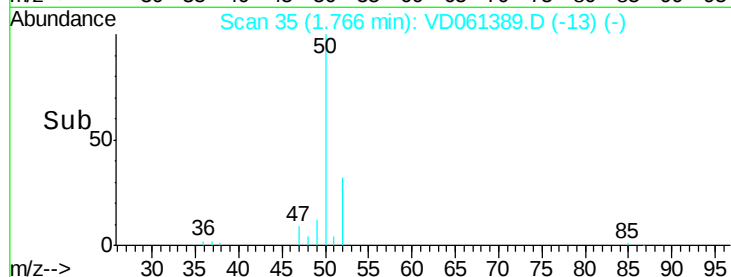
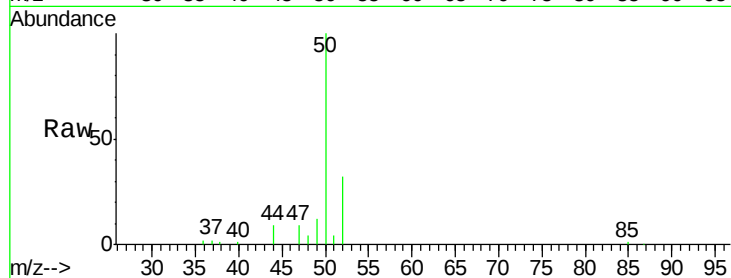
VSTDCCC050

Tot Ion: 50 Resp: 325518

Ion Ratio Lower Upper

50 100

52 31.9 26.1 39.1



#4

Vinyl Chloride

Concen: 44.402 ug/l

RT: 1.86 min Scan# 45

Delta R.T. 0.01 min

Lab File: VD061389.D

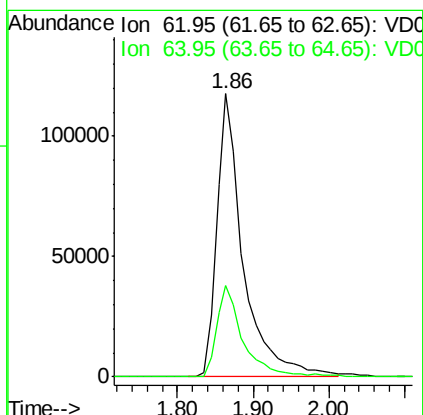
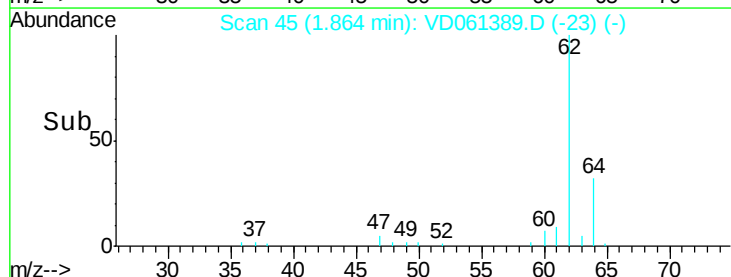
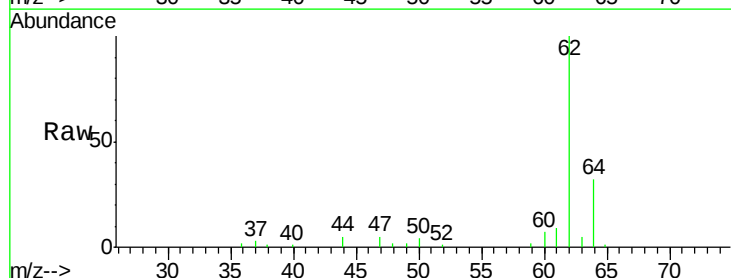
Acq: 28 Mar 2019 14:01

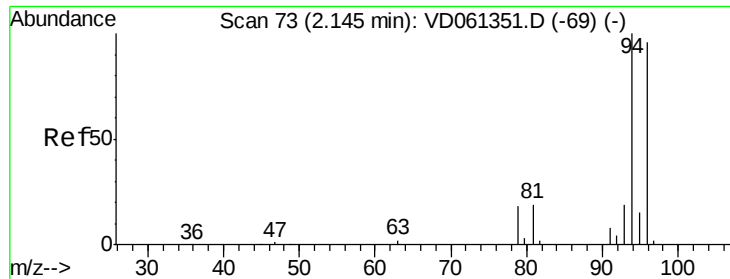
Tgt Ion: 62 Resp: 285489

Ion Ratio Lower Upper

62 100

64 32.2 26.6 39.8





#5

Bromomethane

Concen: 49.483 ug/l

RT: 2.16 min Scan# 75

Delta R.T. 0.01 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

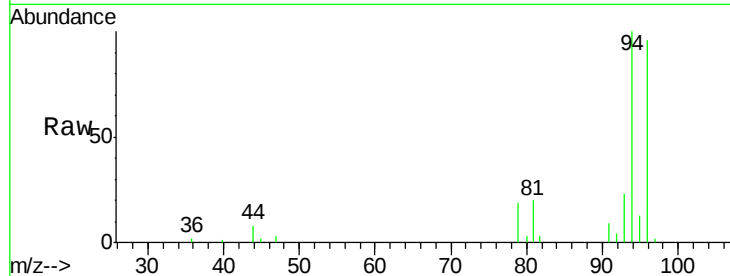
Tot Ion: 94 Resp: 63090

Ion Ratio Lower Upper

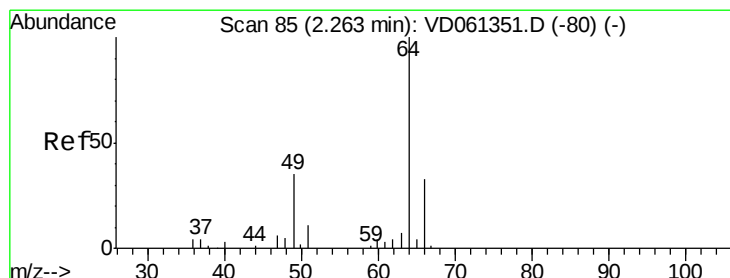
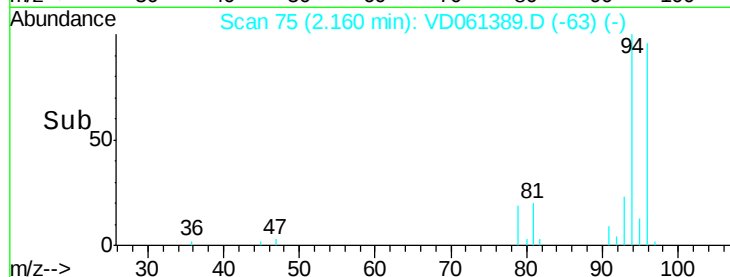
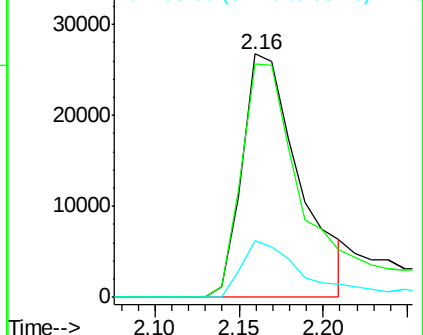
94 100

96 95.6 78.3 117.5

93 23.2 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: 56.058 ug/l

RT: 2.28 min Scan# 87

Delta R.T. 0.01 min

Lab File: VD061389.D

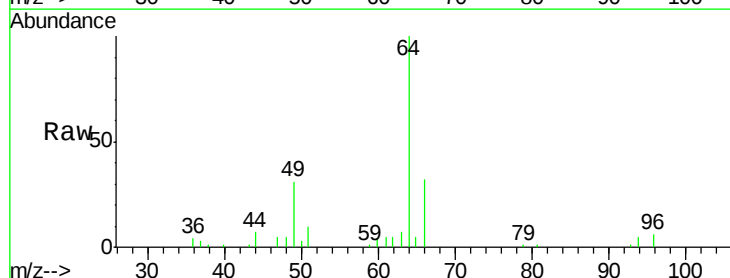
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Tgt Ion: 64 Resp: 105699

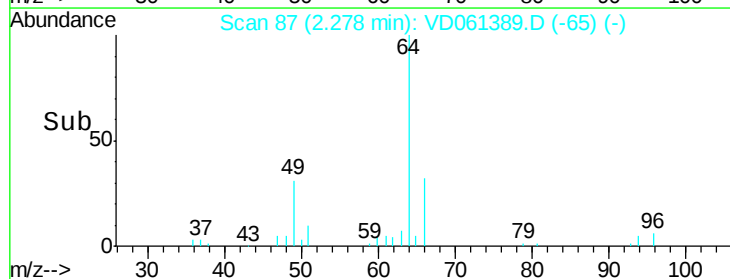
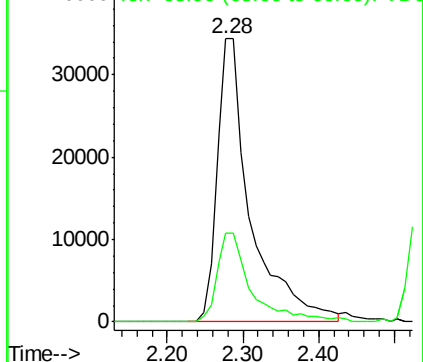
Ion Ratio Lower Upper

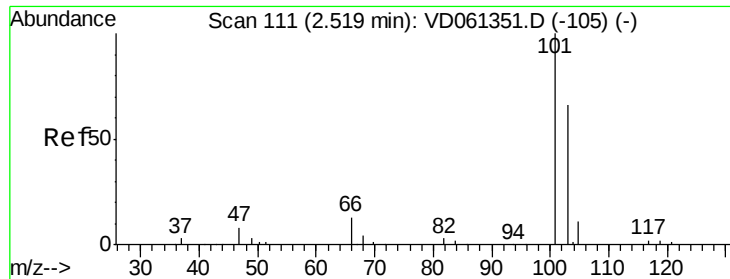
64 100

66 31.6 26.2 39.2



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



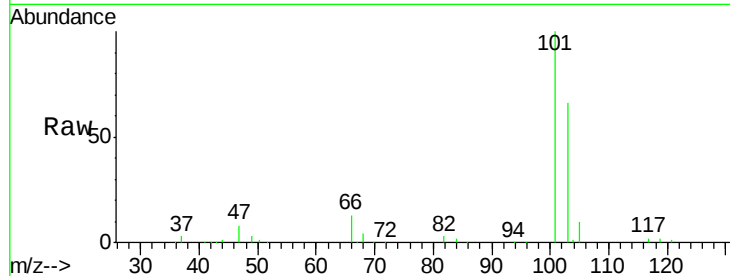


#7

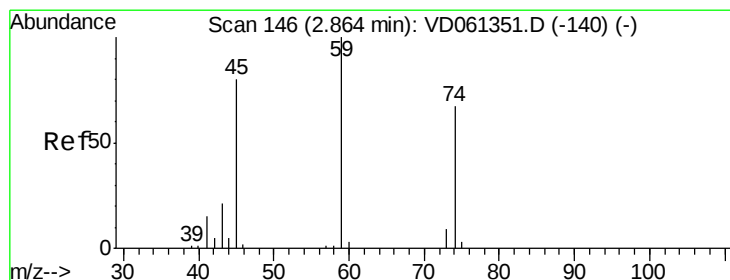
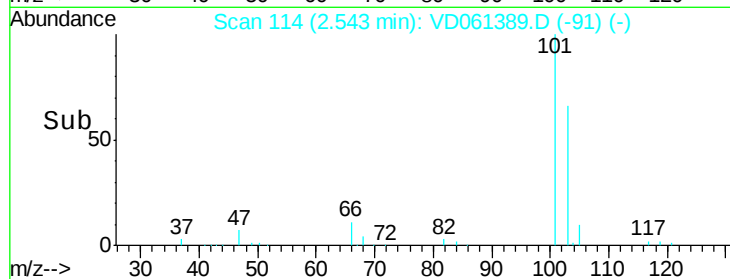
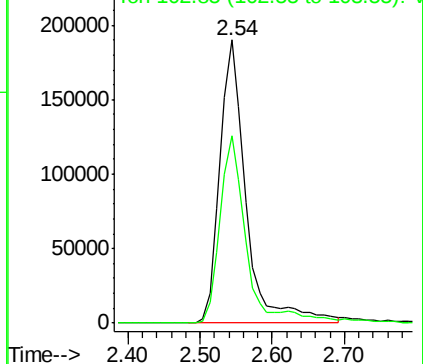
Trichlorofluoromethane
 Concen: 51.291 ug/l
 RT: 2.54 min Scan# 114
 Delta R.T. 0.02 min
 Lab File: VD061389.D
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Tot Ion:101 Resp: 479556
 Ion Ratio Lower Upper
 101 100
 103 66.1 53.1 79.7



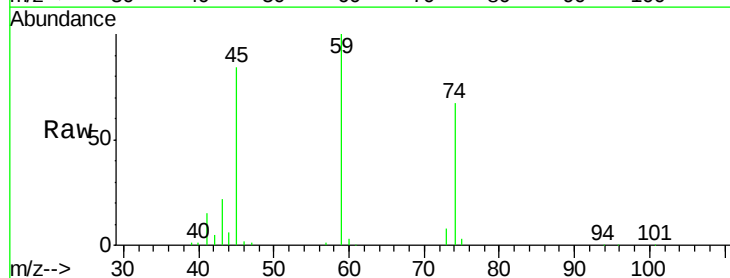
Abundance Ion 100.85 (100.55 to 101.55): V
 Ion 102.85 (102.55 to 103.55): V



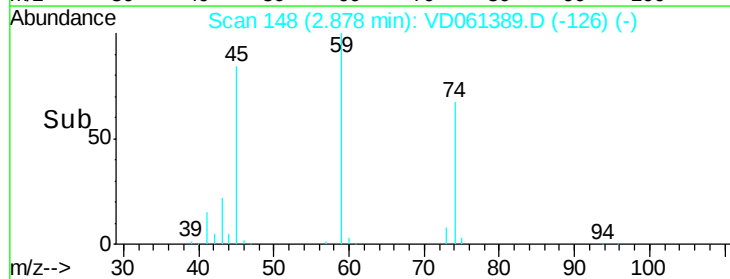
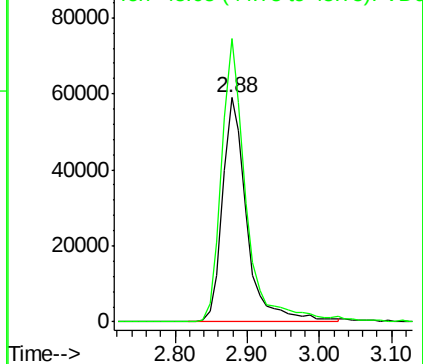
#8

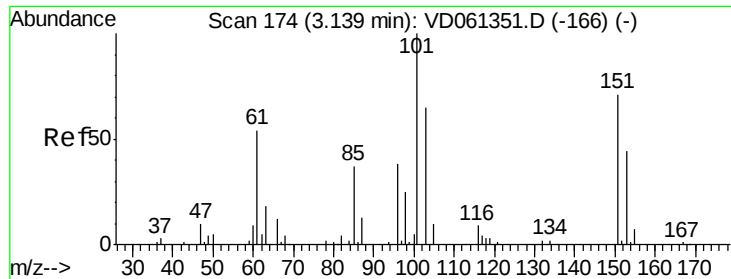
Diethyl Ether
 Concen: 45.752 ug/l
 RT: 2.88 min Scan# 148
 Delta R.T. 0.01 min
 Lab File: VD061389.D
 Acq: 28 Mar 2019 14:01

Tgt Ion: 74 Resp: 137725
 Ion Ratio Lower Upper
 74 100
 45 126.3 59.7 179.1



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

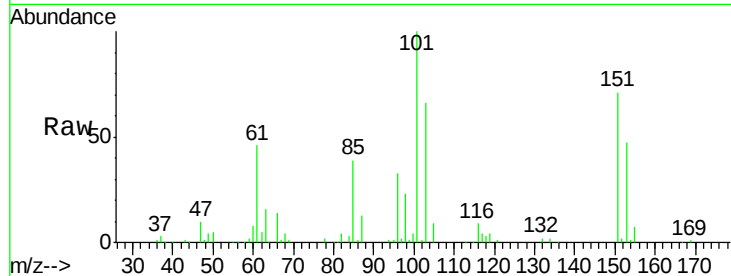




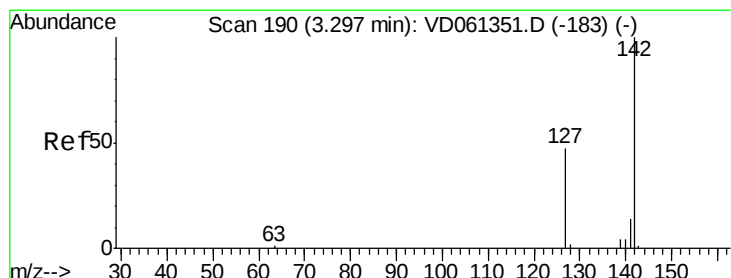
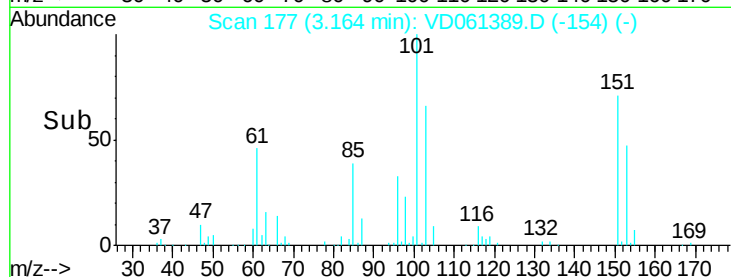
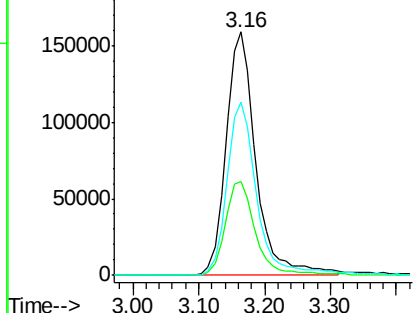
#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.092 ug/l
RT: 3.16 min Scan# 177
Delta R.T. 0.02 min
Lab File: VD061389.D
Acq: 28 Mar 2019 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:101 Resp: 503503
Ion Ratio Lower Upper
101 100
85 38.5 29.4 44.0
151 71.0 57.0 85.4

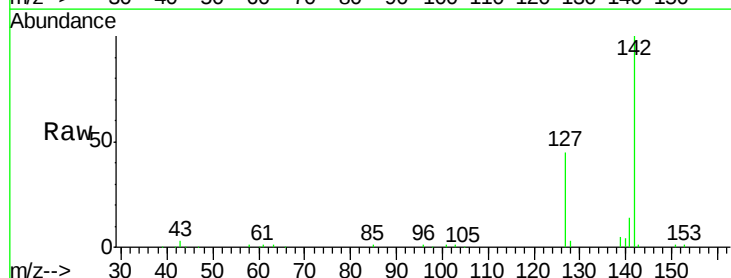


Abundance Ion 100.85 (100.55 to 101.55): V
Ion 84.95 (84.65 to 85.65): V
Ion 150.90 (150.60 to 151.60): V

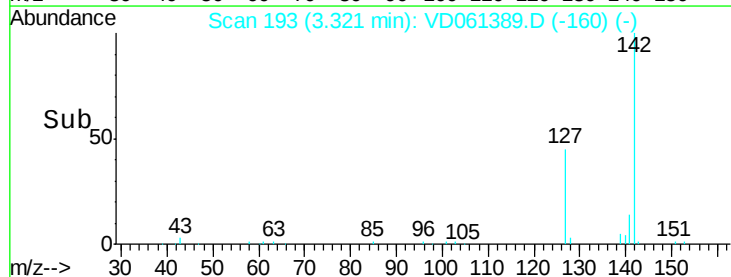
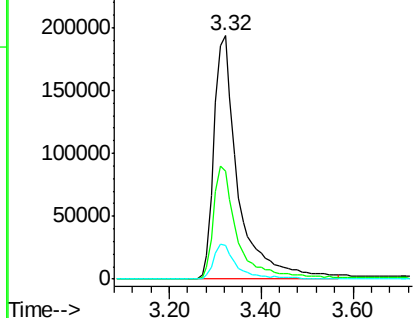


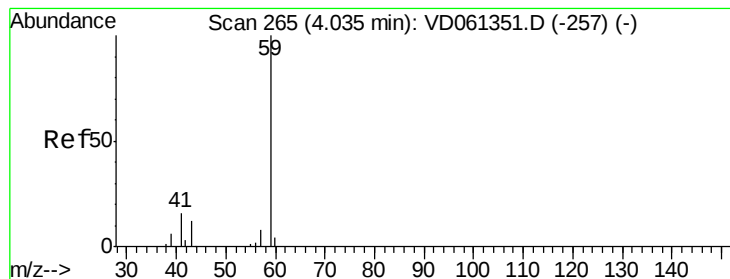
#10
Methyl Iodide
Concen: 46.294 ug/l
RT: 3.32 min Scan# 193
Delta R.T. 0.02 min
Lab File: VD061389.D
Acq: 28 Mar 2019 14:01

Tgt Ion:142 Resp: 703200
Ion Ratio Lower Upper
142 100
127 44.6 37.7 56.5
141 14.0 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



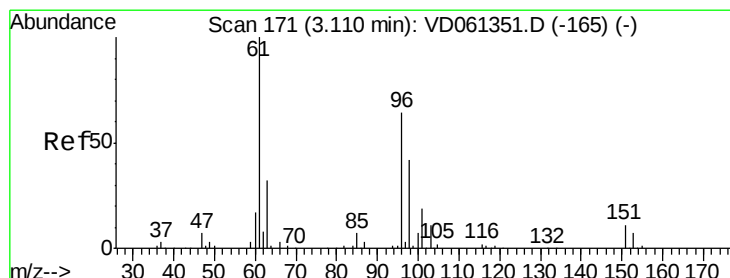
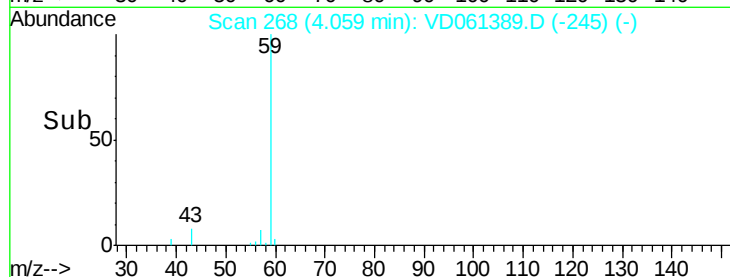
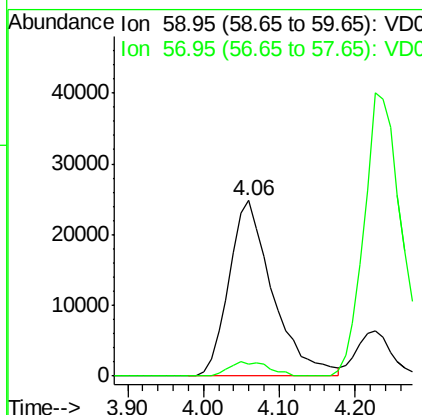
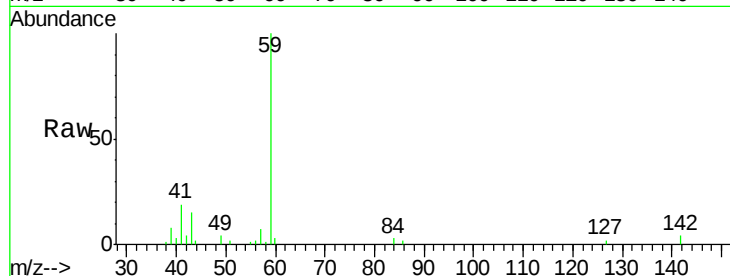


#11

Tert butyl alcohol
Concen: 231.625 ug/l
RT: 4.06 min Scan# 268
Delta R.T. 0.02 min
Lab File: VD061389.D
Acq: 28 Mar 2019 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

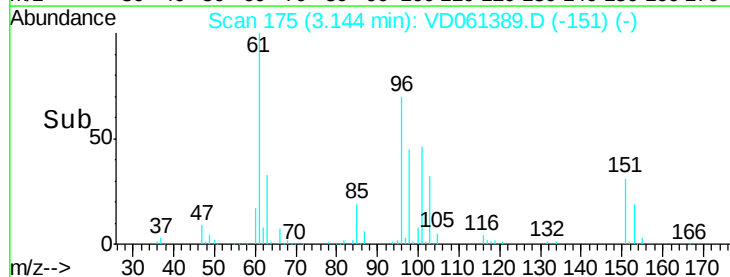
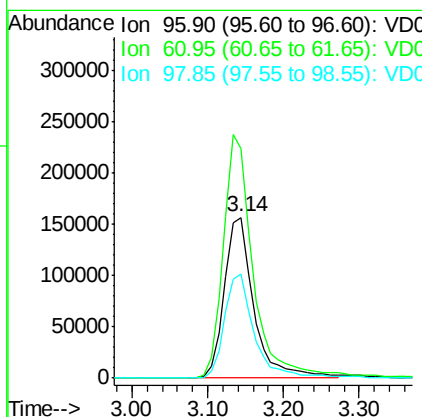
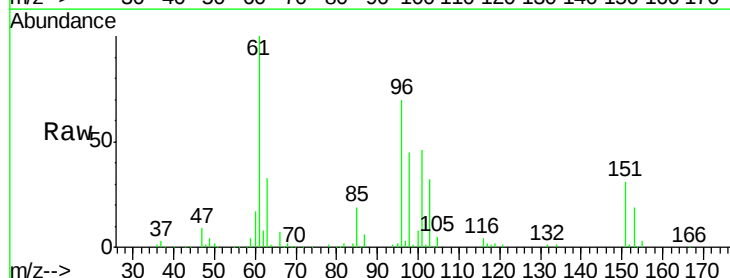
Tot Ion: 59 Resp: 99071
Ion Ratio Lower Upper
59 100
57 6.7 6.7 10.1#

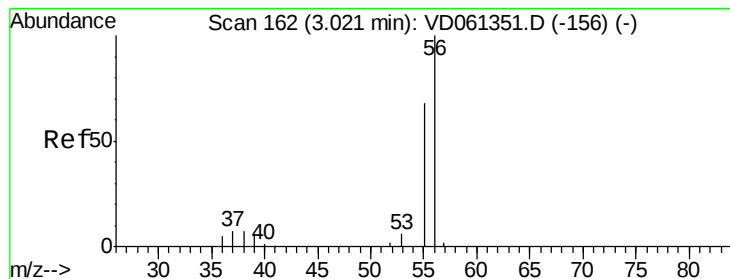


#12

1,1-Dichloroethene
Concen: 49.183 ug/l
RT: 3.14 min Scan# 175
Delta R.T. 0.03 min
Lab File: VD061389.D
Acq: 28 Mar 2019 14:01

Tgt Ion: 96 Resp: 424442
Ion Ratio Lower Upper
96 100
61 142.7 124.9 187.3
98 64.7 52.5 78.7





#13

Acrolein

Concen: 259.013 ug/l

RT: 3.05 min Scan# 165

Delta R.T. 0.02 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

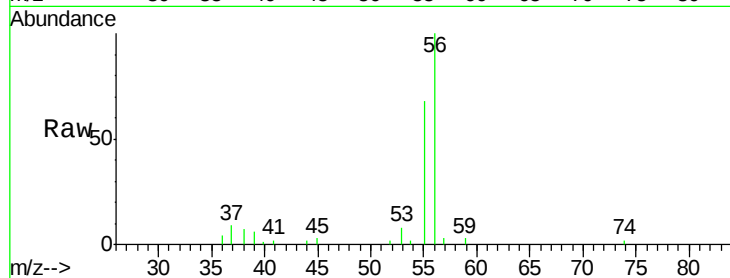
VSTDCCC050

Tot Ion: 56 Resp: 84140

Ion Ratio Lower Upper

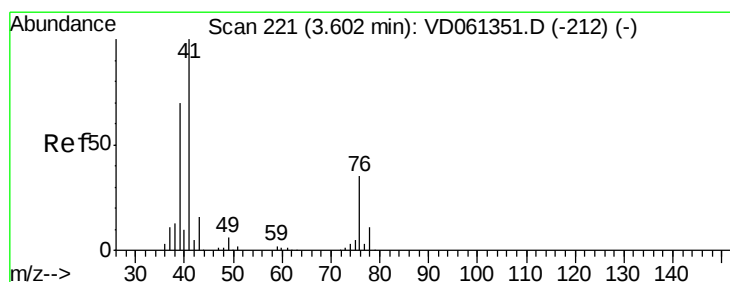
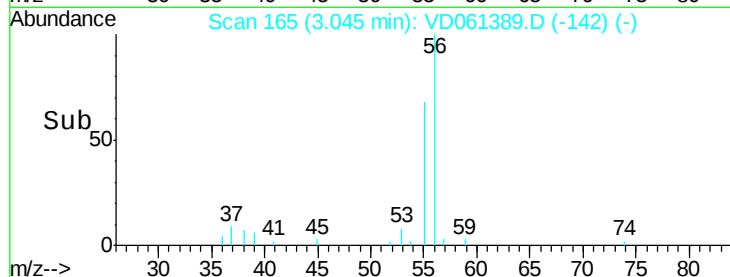
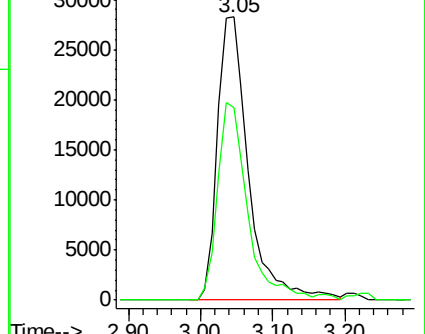
56 100

55 68.1 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: 50.086 ug/l

RT: 3.63 min Scan# 224

Delta R.T. 0.02 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

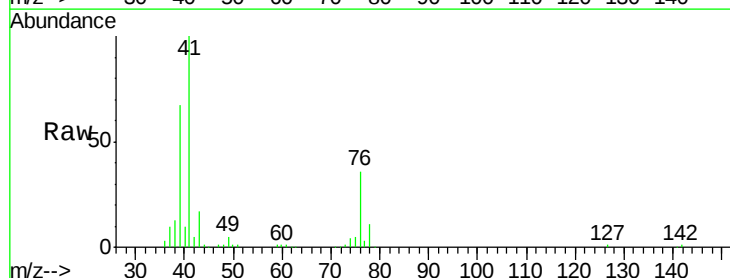
Tgt Ion: 41 Resp: 602869

Ion Ratio Lower Upper

41 100

39 66.6 55.6 83.4

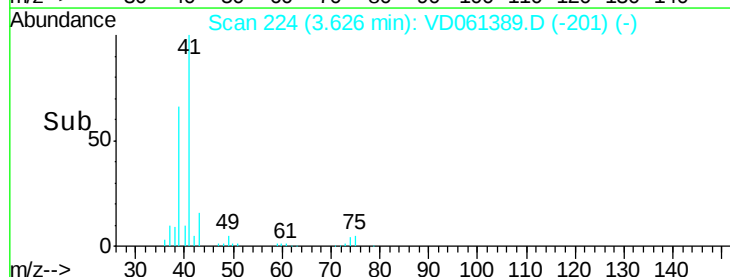
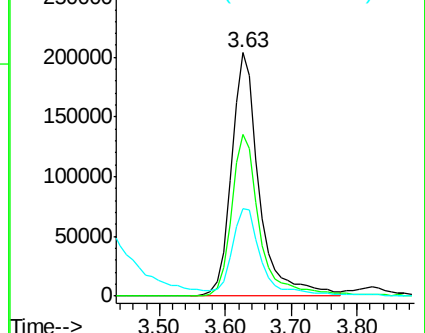
76 35.8 31.0 46.6

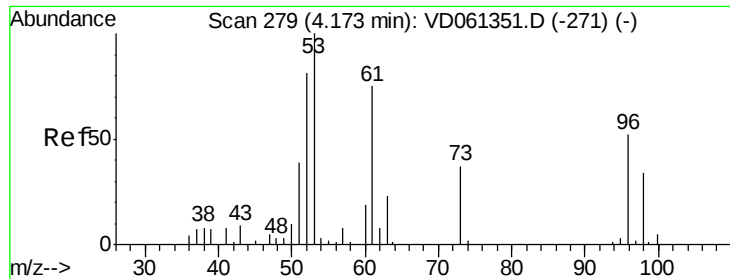


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 233.762 ug/l

RT: 4.20 min Scan# 282

Delta R.T. 0.02 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

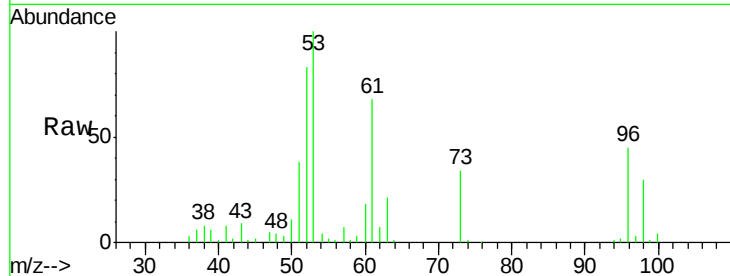
Tot Ion: 53 Resp: 347029

Ion Ratio Lower Upper

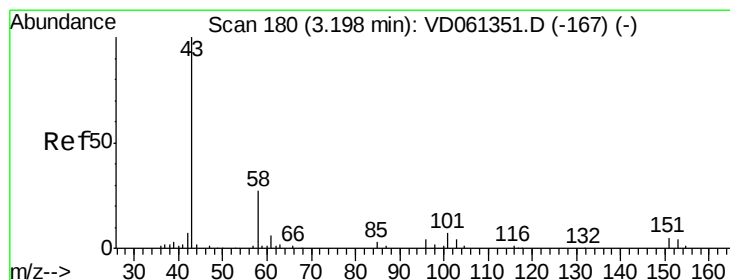
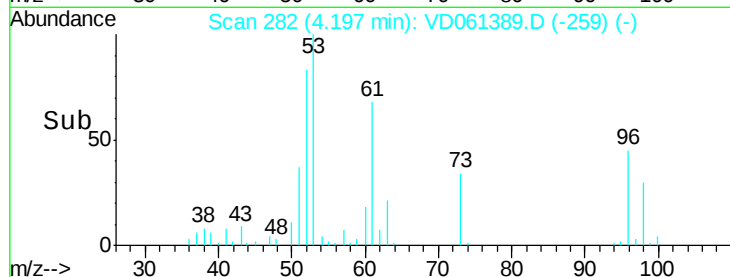
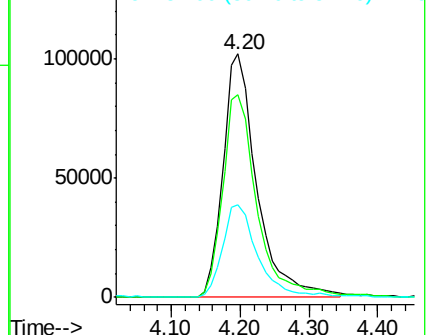
53 100

52 83.0 64.8 97.2

51 38.0 31.4 47.2



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



#16

Acetone

Concen: 282.464 ug/l

RT: 3.22 min Scan# 183

Delta R.T. 0.02 min

Lab File: VD061389.D

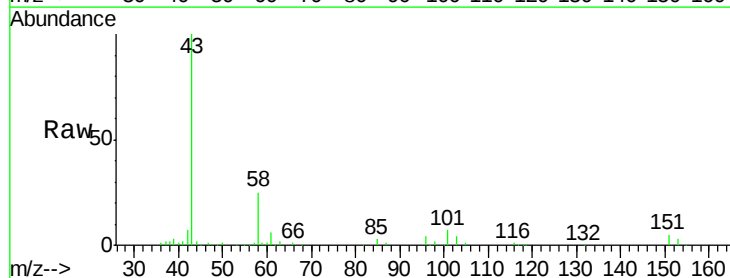
Acq: 28 Mar 2019 14:01

Tgt Ion: 43 Resp: 498705

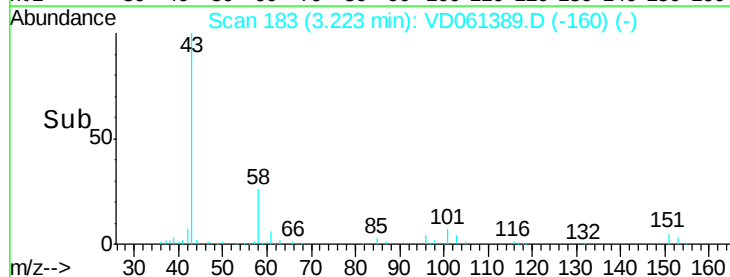
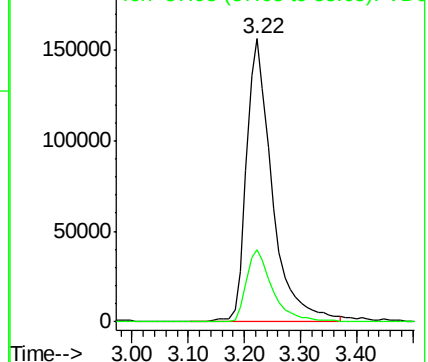
Ion Ratio Lower Upper

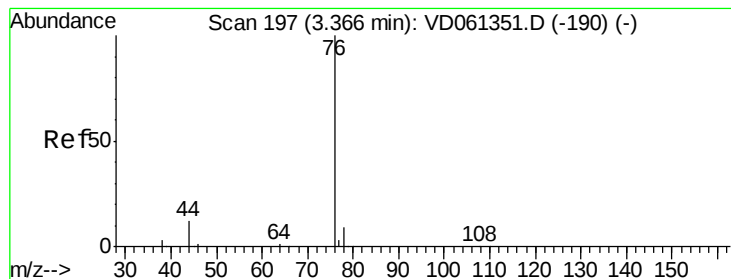
43 100

58 25.4 21.5 32.3



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





#17

Carbon Disulfide

Concen: 48.609 ug/l

RT: 3.38 min Scan# 199

Delta R.T. 0.01 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

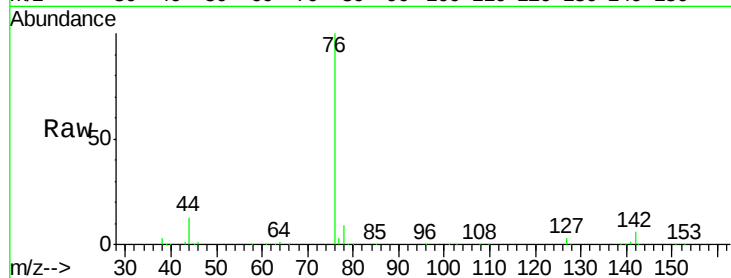
VSTDCCC050

Tot Ion: 76 Resp: 1362934

Ion Ratio Lower Upper

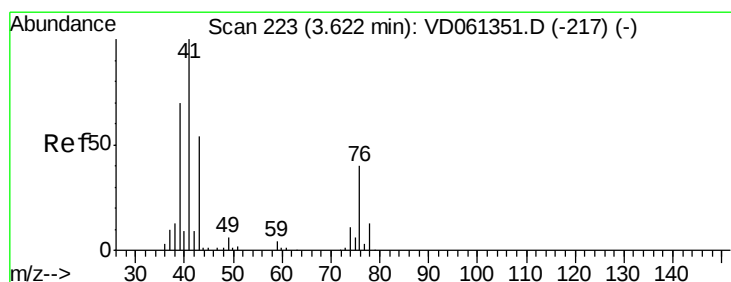
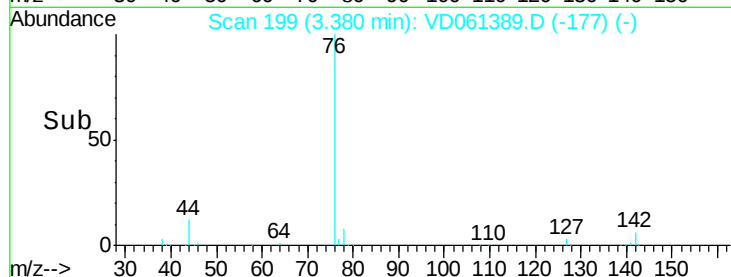
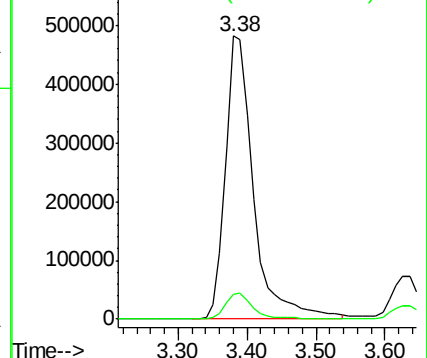
76 100

78 8.8 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: 44.029 ug/l

RT: 3.65 min Scan# 226

Delta R.T. 0.02 min

Lab File: VD061389.D

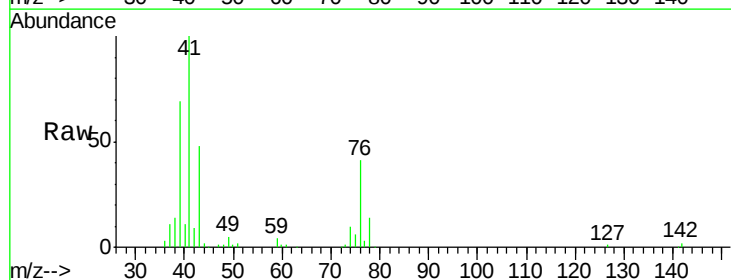
Acq: 28 Mar 2019 14:01

Tgt Ion: 43 Resp: 163444

Ion Ratio Lower Upper

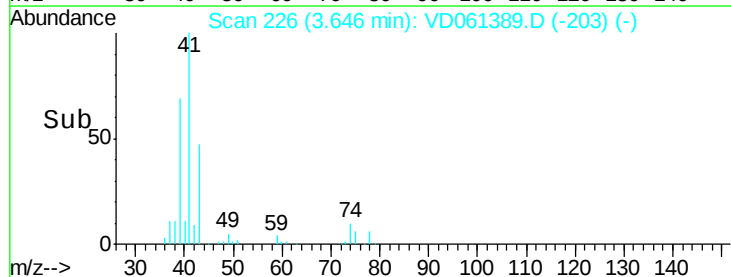
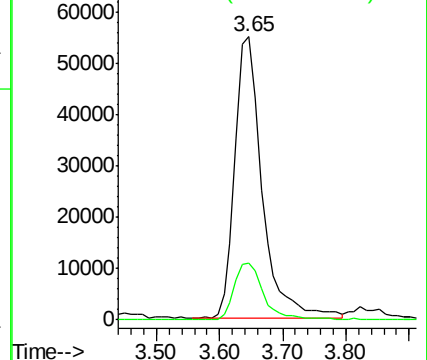
43 100

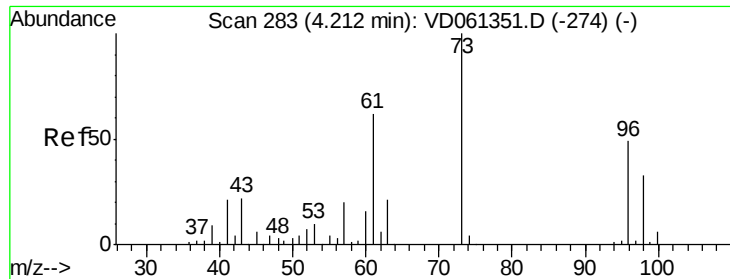
74 20.3 16.7 25.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

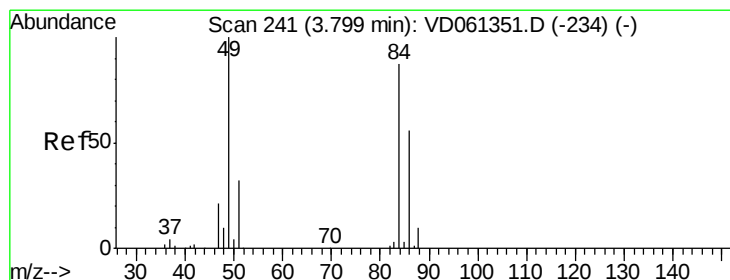
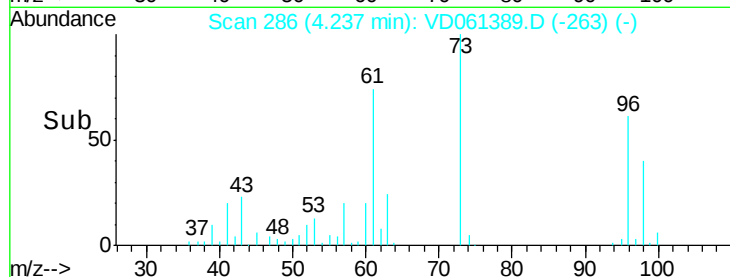
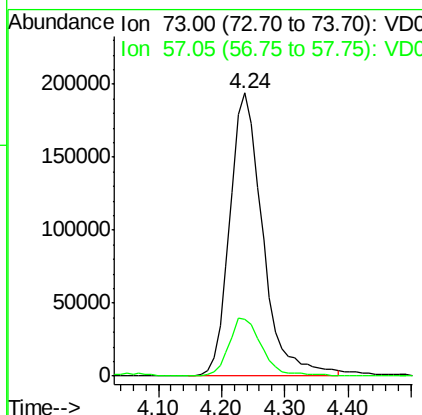
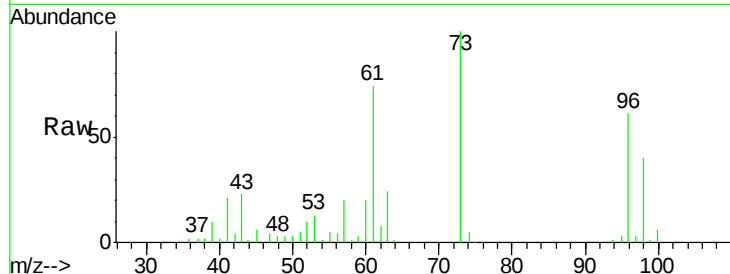




#19
Methvl tert-butvl Ether
Concen: 47.201 ug/l
RT: 4.24 min Scan# 286
Delta R.T. 0.02 min
Lab File: VD061389.D
Acq: 28 Mar 2019 14:01

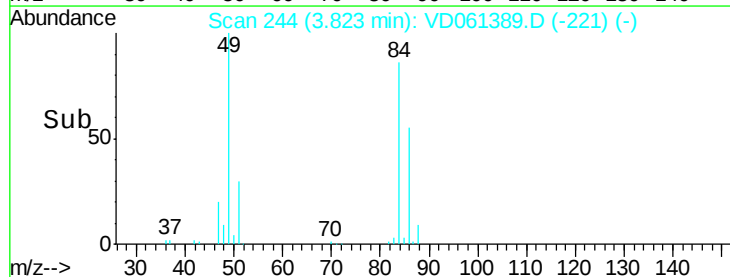
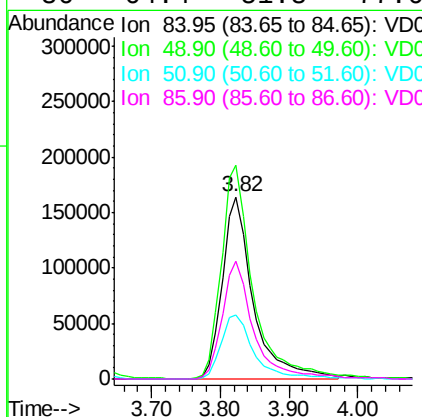
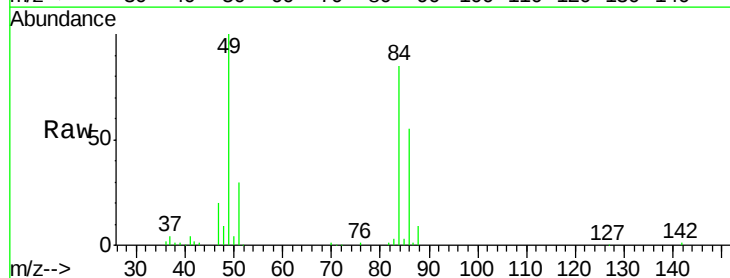
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

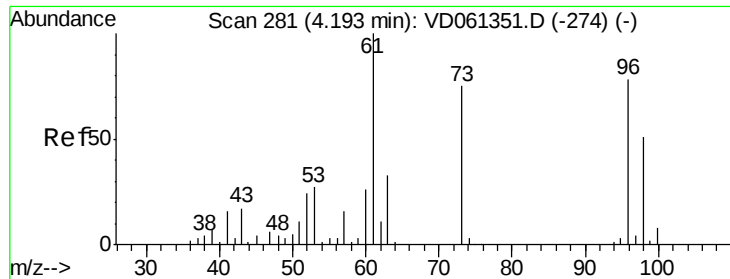
Tot Ion: 73 Resp: 705104
Ion Ratio Lower Upper
73 100
57 20.2 16.4 24.6



#20
Methylene Chloride
Concen: 51.919 ug/l
RT: 3.82 min Scan# 244
Delta R.T. 0.02 min
Lab File: VD061389.D
Acq: 28 Mar 2019 14:01

Tgt Ion: 84 Resp: 512784
Ion Ratio Lower Upper
84 100
49 117.1 91.8 137.8
51 35.2 29.8 44.8
86 64.4 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 48.940 ug/l

RT: 4.23 min Scan# 285

Delta R.T. 0.03 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

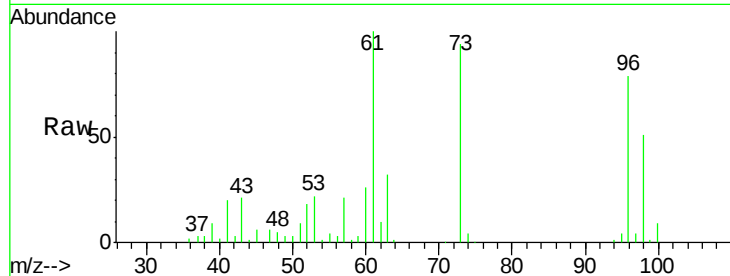
Tot Ion: 96 Resp: 455981

Ion Ratio Lower Upper

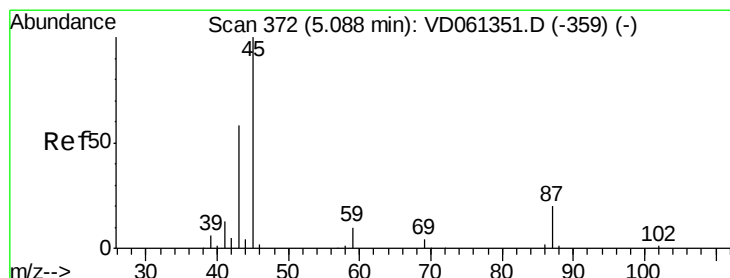
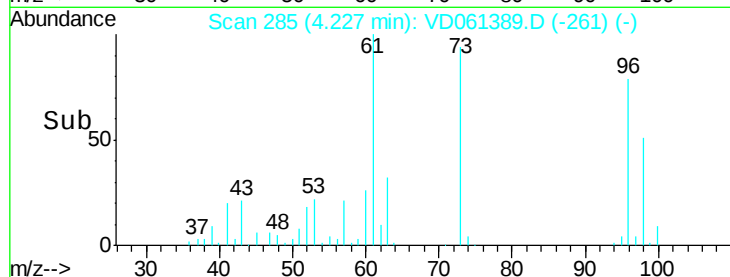
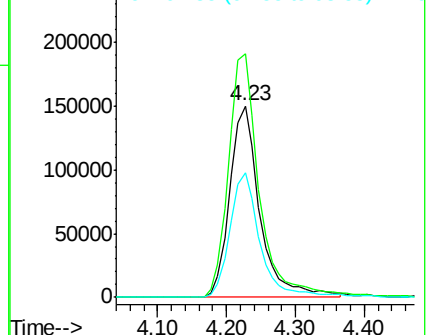
96 100

61 127.2 102.7 154.1

98 64.9 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: 48.007 ug/l

RT: 5.12 min Scan# 376

Delta R.T. 0.03 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

Tgt Ion: 45 Resp: 1222795

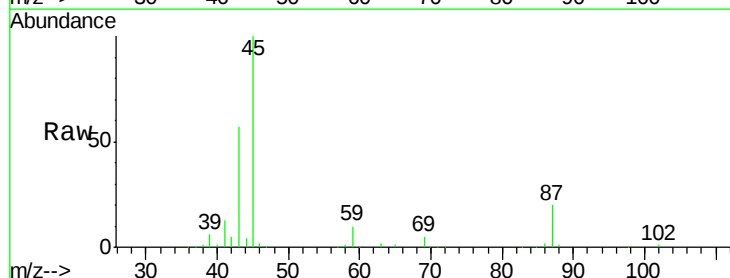
Ion Ratio Lower Upper

45 100

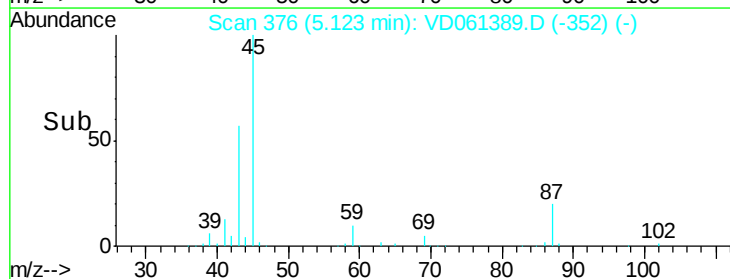
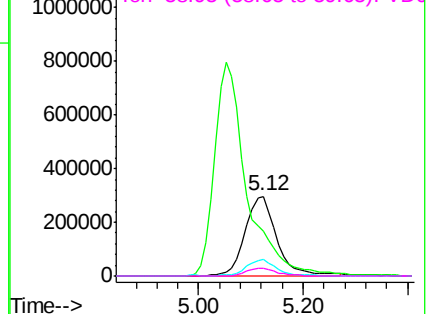
43 56.8 47.4 71.2

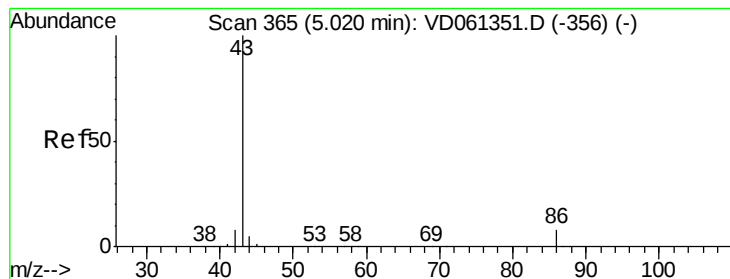
87 20.1 16.3 24.5

59 10.1 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: 241.128 ug/l

RT: 5.05 min Scan# 369

Delta R.T. 0.03 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

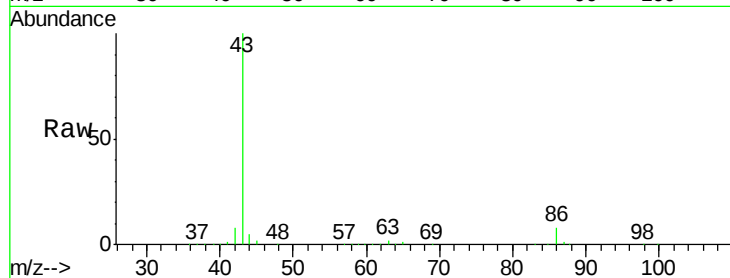
VSTDCCC050

Tot Ion: 43 Resp: 3336227

Ion Ratio Lower Upper

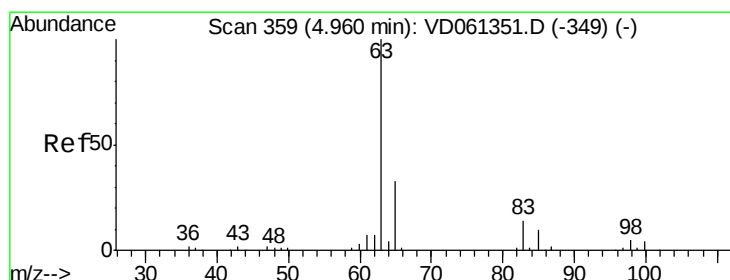
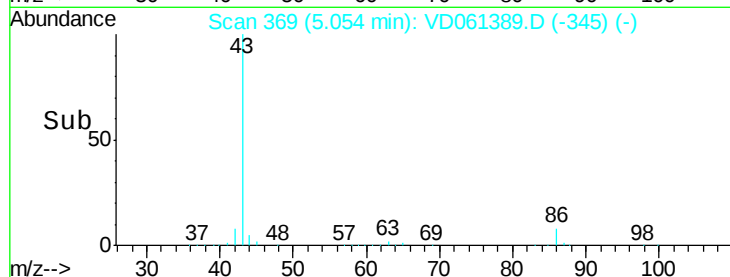
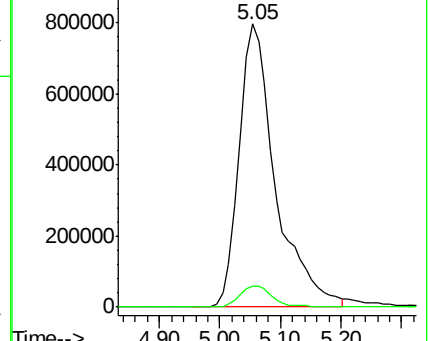
43 100

86 7.6 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: 49.766 ug/l

RT: 4.98 min Scan# 362

Delta R.T. 0.02 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

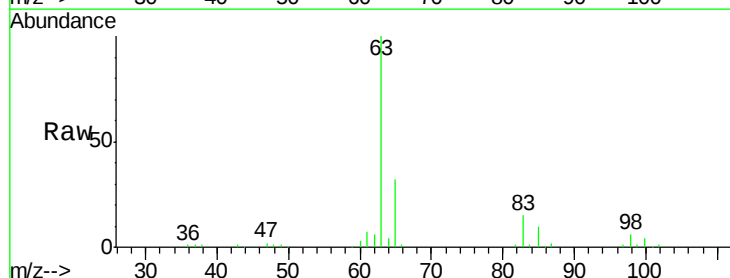
Tgt Ion: 63 Resp: 744962

Ion Ratio Lower Upper

63 100

98 6.1 2.6 8.0

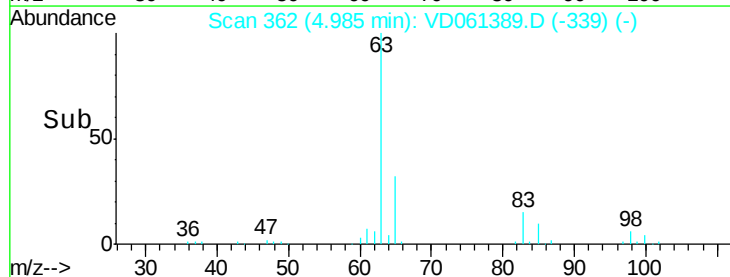
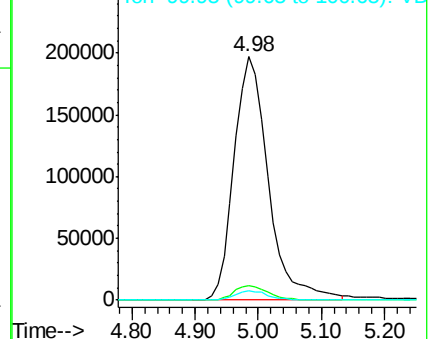
100 3.9 1.8 5.3

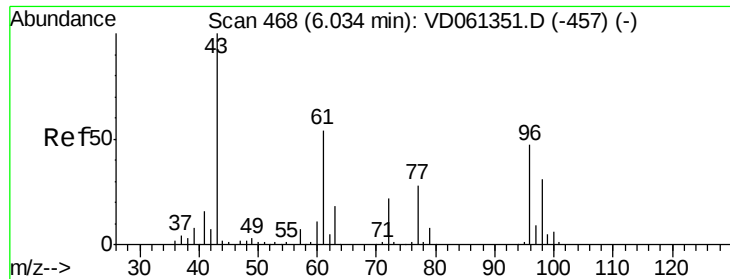


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 239.747 ug/l

RT: 6.06 min Scan# 471

Delta R.T. 0.02 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

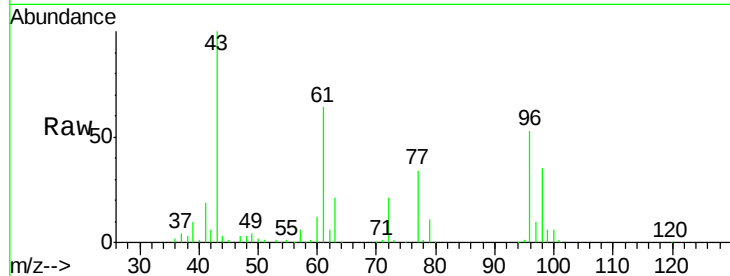
VSTDCCC050

Tot Ion: 43 Resp: 532457

Ion Ratio Lower Upper

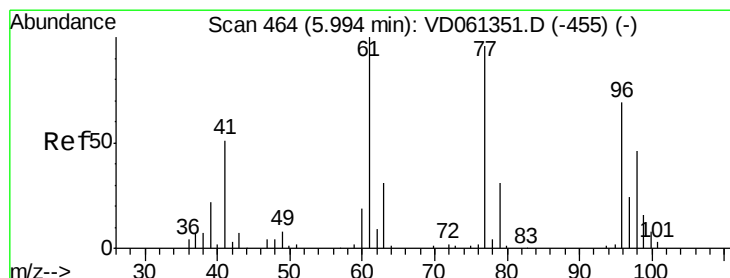
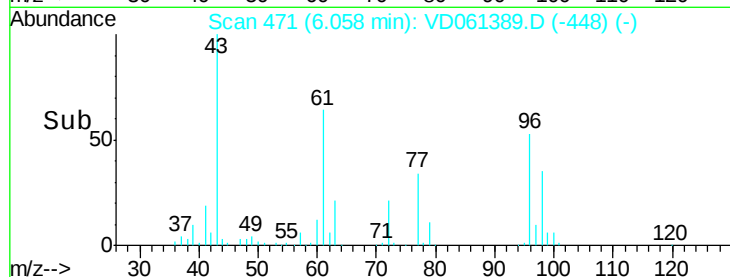
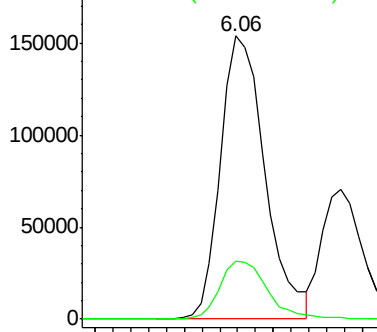
43 100

72 20.7 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: 48.682 ug/l

RT: 6.03 min Scan# 468

Delta R.T. 0.03 min

Lab File: VD061389.D

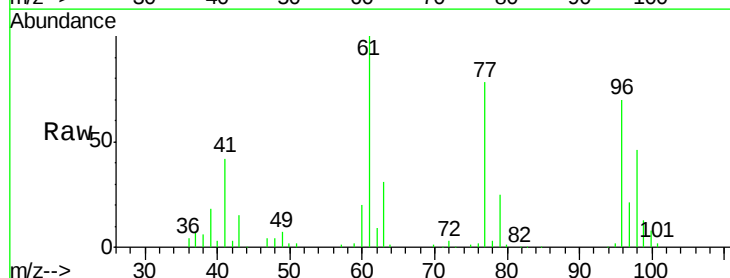
Acq: 28 Mar 2019 14:01

Tgt Ion: 77 Resp: 579300

Ion Ratio Lower Upper

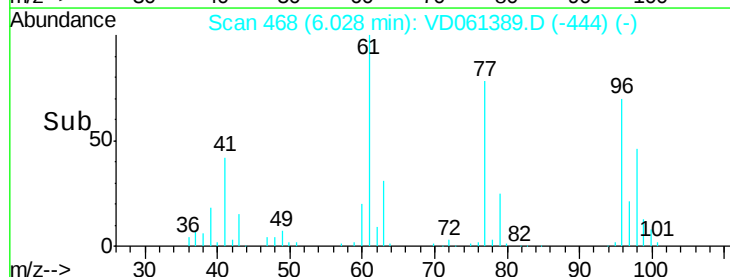
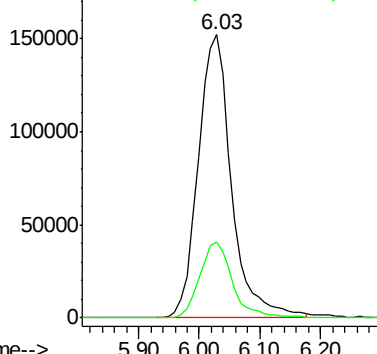
77 100

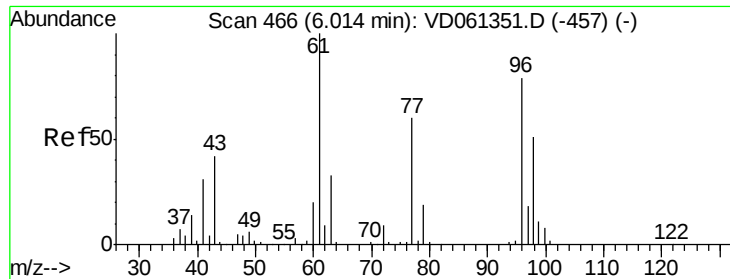
97 26.7 12.7 38.0



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



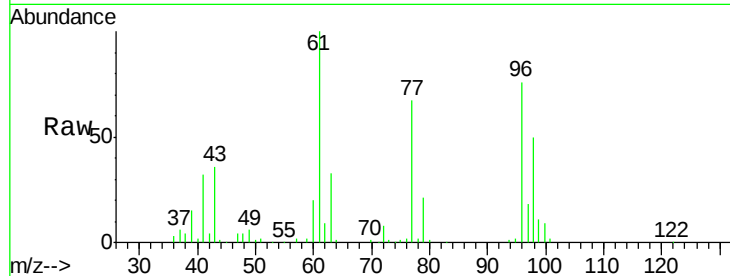


#27

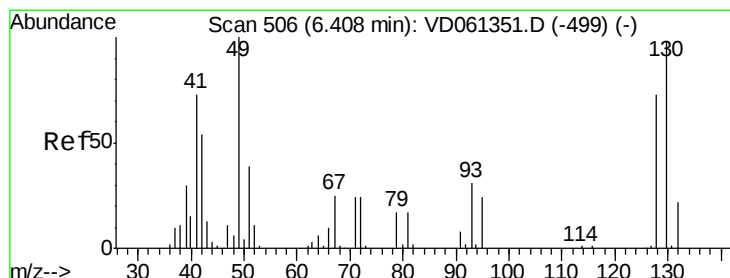
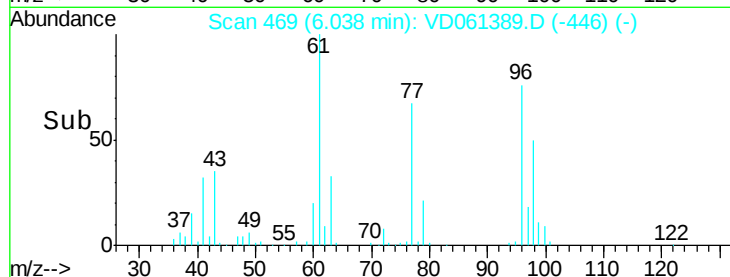
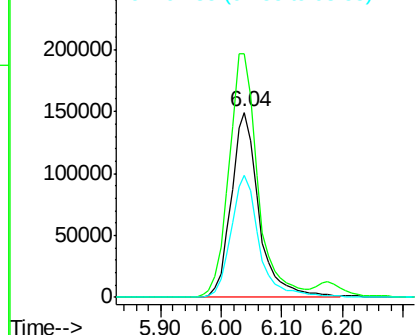
cis-1,2-Dichloroethene
Concen: 46.656 ug/l
RT: 6.04 min Scan# 469
Delta R.T. 0.02 min
Lab File: VD061389.D
Acq: 28 Mar 2019 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 96 Resp: 476268
Ion Ratio Lower Upper
96 100
61 131.5 0.0 251.6
98 66.0 0.0 129.2



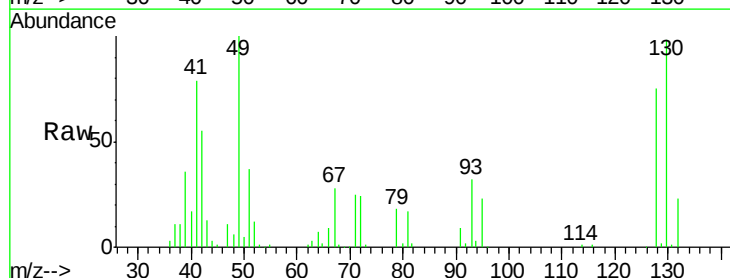
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



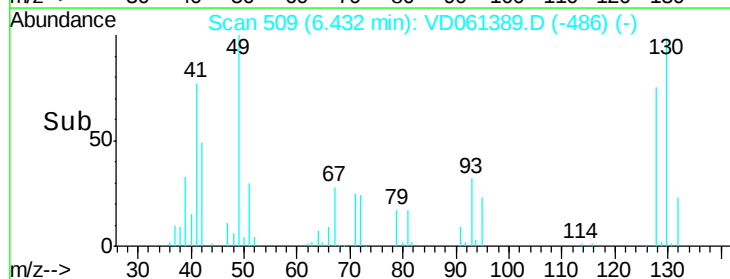
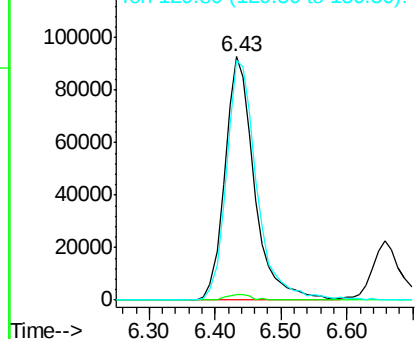
#28

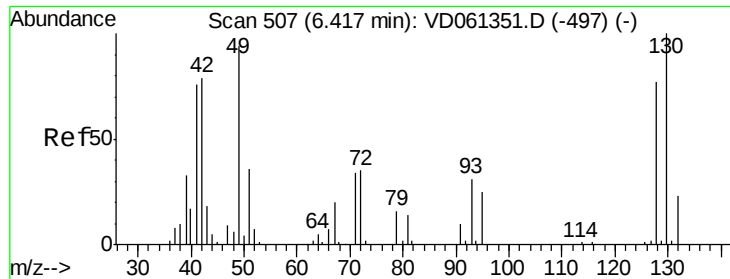
Bromochloromethane
Concen: 48.103 ug/l
RT: 6.43 min Scan# 509
Delta R.T. 0.02 min
Lab File: VD061389.D
Acq: 28 Mar 2019 14:01

Tgt Ion: 49 Resp: 290667
Ion Ratio Lower Upper
49 100
129 2.2 0.0 0.0#
130 98.3 78.4 117.6



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

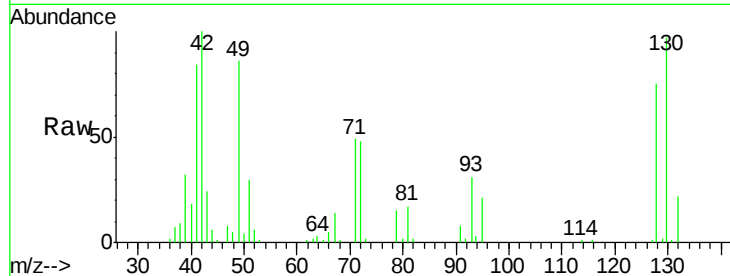




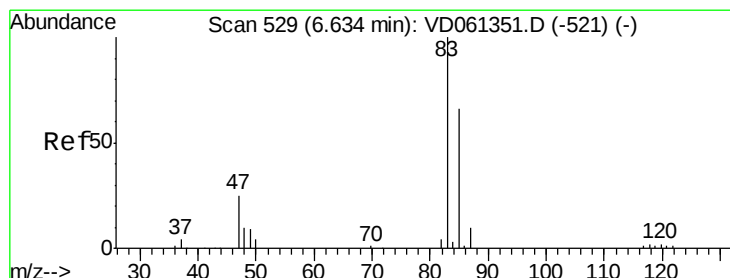
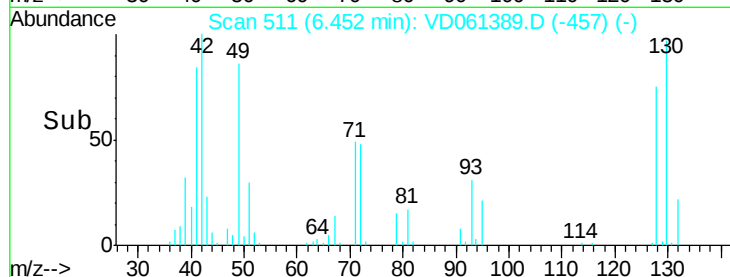
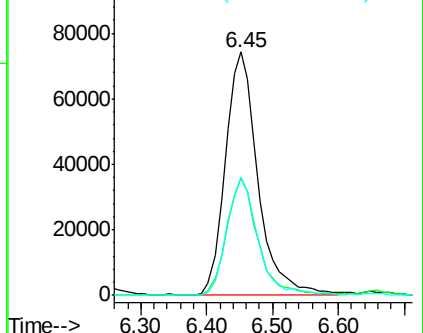
#29
Tetrahydrofuran
Concen: 238.670 ug/l
RT: 6.45 min Scan# 511
Delta R.T. 0.03 min
Lab File: VD061389.D
Acq: 28 Mar 2019 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 42 Resp: 256920
Ion Ratio Lower Upper
42 100
72 45.9 37.4 56.0
71 46.5 36.7 55.1

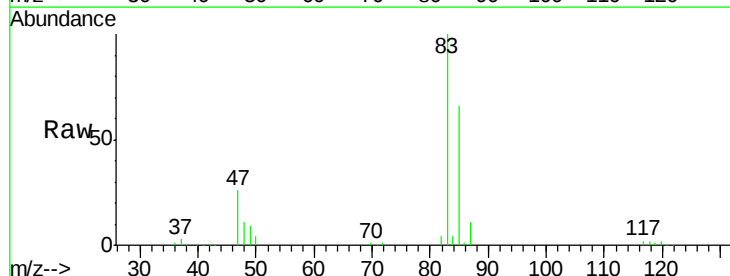


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

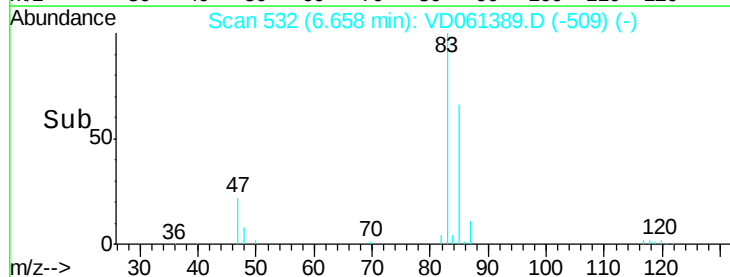
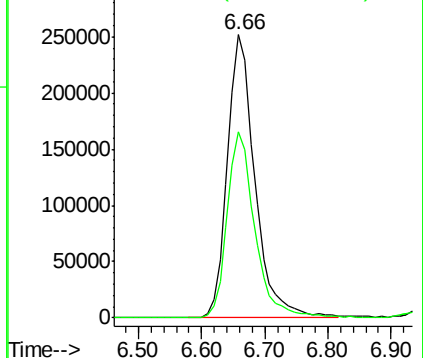


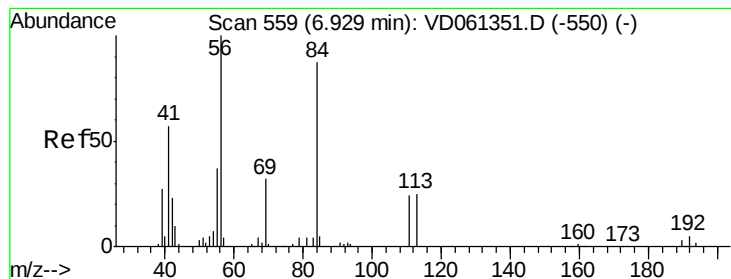
#30
Chloroform
Concen: 49.249 ug/l
RT: 6.66 min Scan# 532
Delta R.T. 0.02 min
Lab File: VD061389.D
Acq: 28 Mar 2019 14:01

Tgt Ion: 83 Resp: 761750
Ion Ratio Lower Upper
83 100
85 65.6 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: 48.724 ug/l

RT: 6.95 min Scan# 562

Delta R.T. 0.02 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

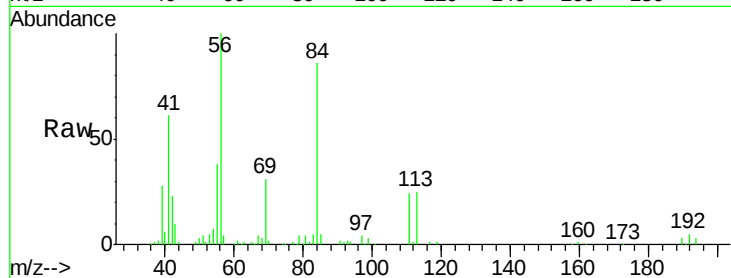
Tot Ion: 56 Resp: 576370

Ion Ratio Lower Upper

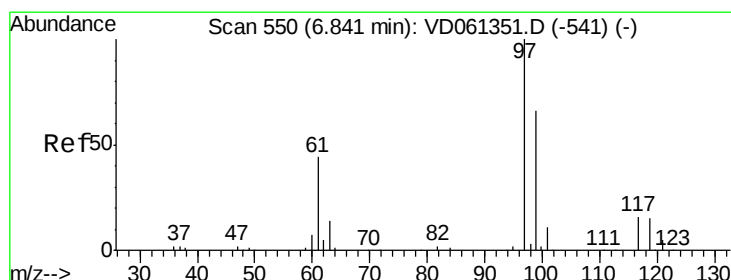
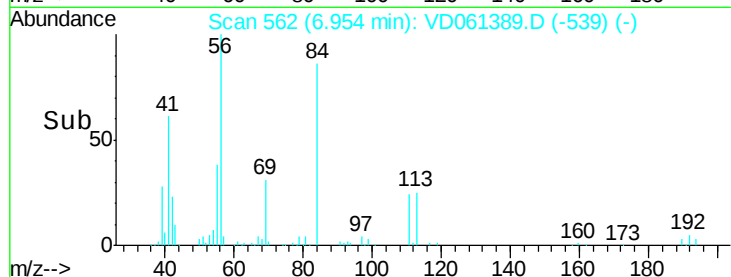
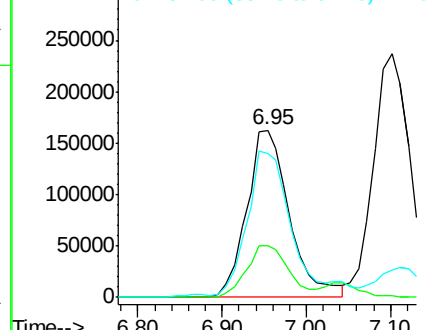
56 100

69 31.1 25.7 38.5

84 86.3 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: 48.078 ug/l

RT: 6.87 min Scan# 553

Delta R.T. 0.02 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

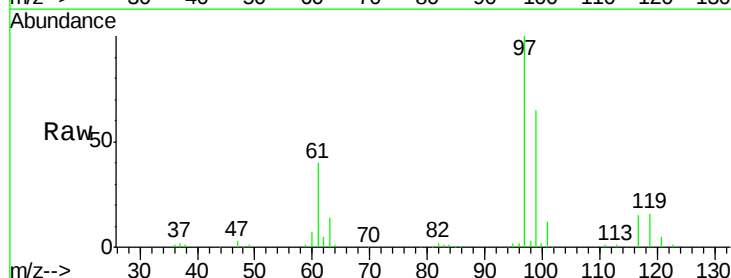
Tgt Ion: 97 Resp: 656051

Ion Ratio Lower Upper

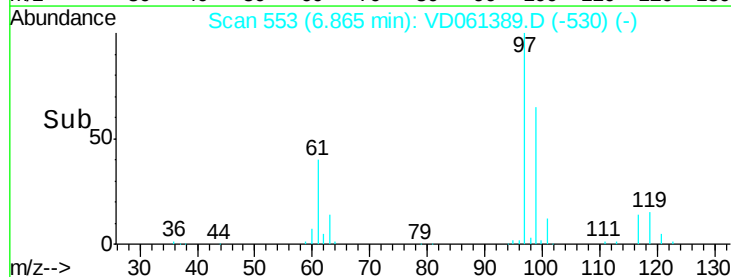
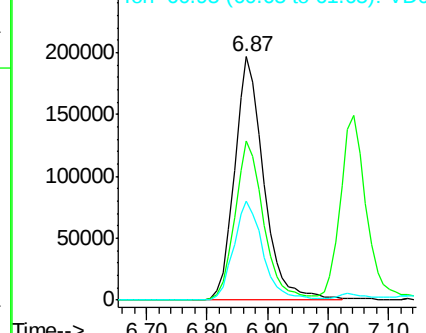
97 100

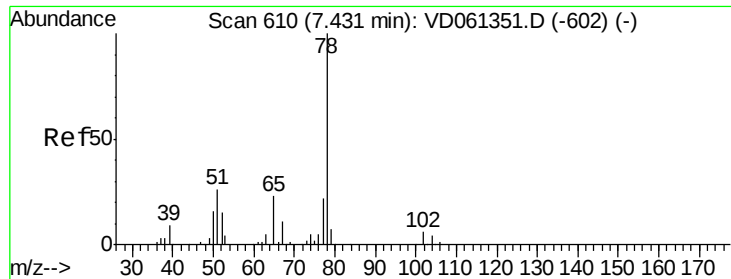
99 65.4 53.1 79.7

61 40.5 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: 48.078 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.01 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

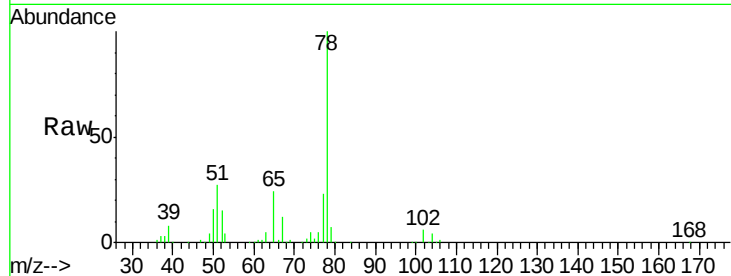
VSTDCCC050

Tot Ion: 65 Resp: 317072

Ion Ratio Lower Upper

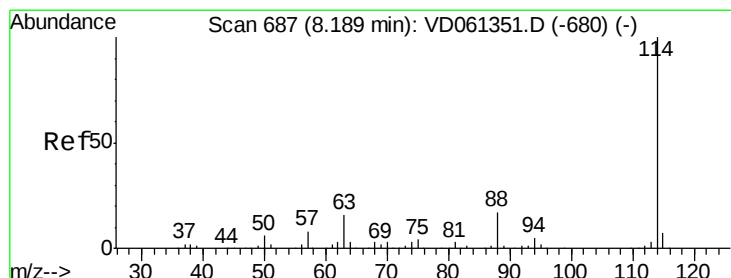
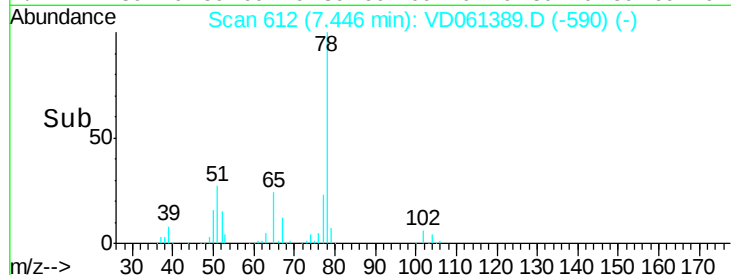
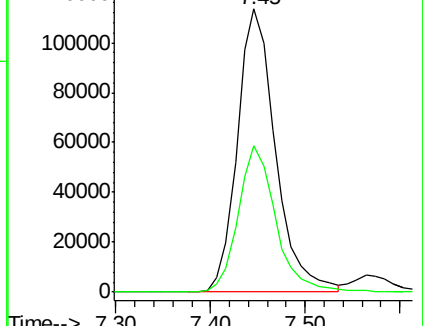
65 100

67 51.6 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: 8.21 min Scan# 690

Delta R.T. 0.02 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

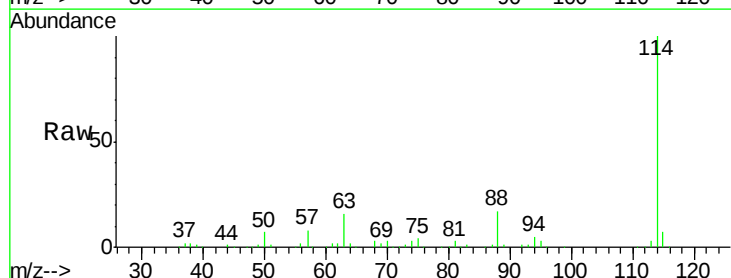
Tgt Ion: 114 Resp: 1255107

Ion Ratio Lower Upper

114 100

63 15.6 0.0 31.6

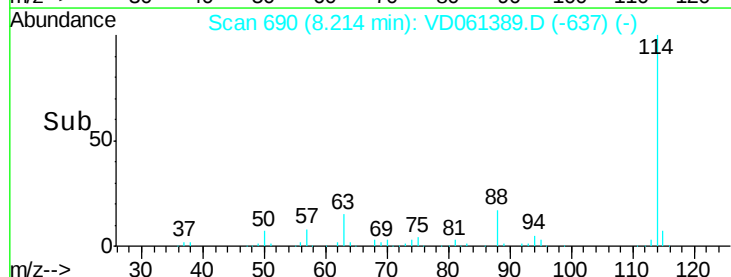
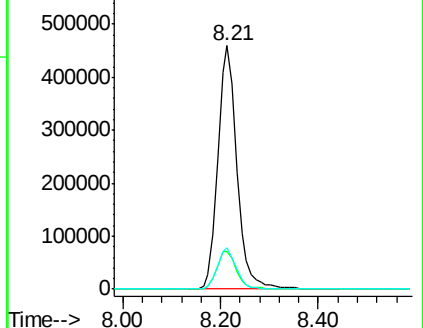
88 16.8 0.0 33.4

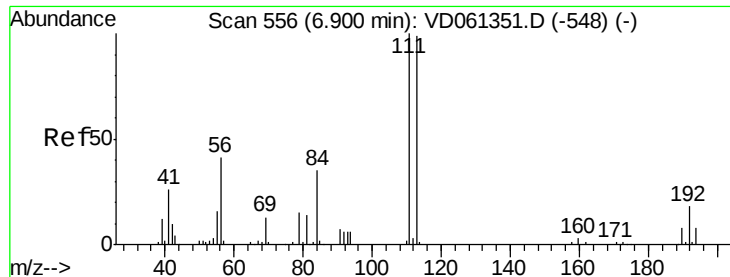


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

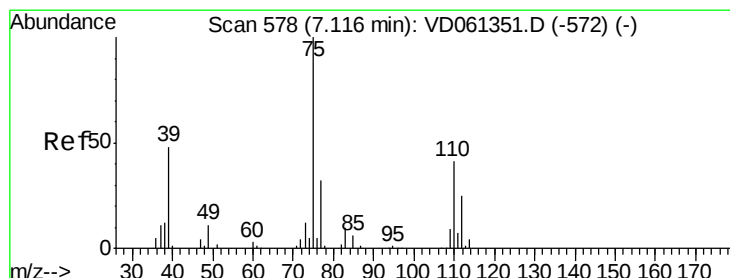
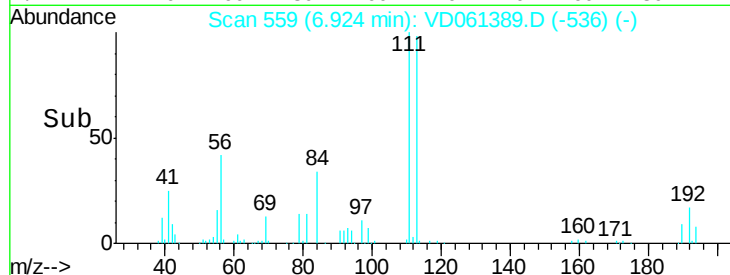
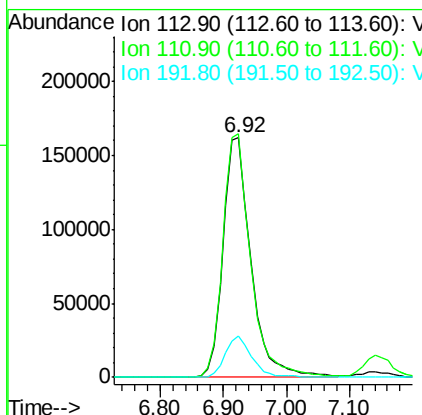
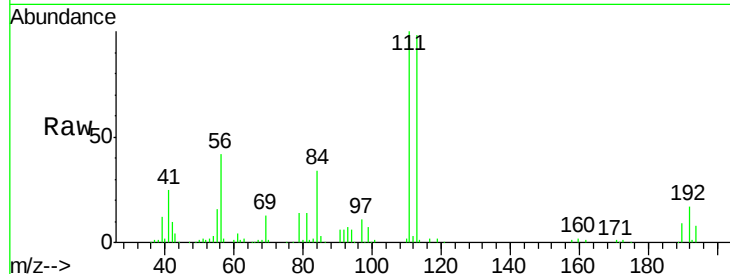




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.92 min Scan# 559
 Delta R.T. 0.02 min
 Lab File: VD061389.D
 Acq: 28 Mar 2019 14:01

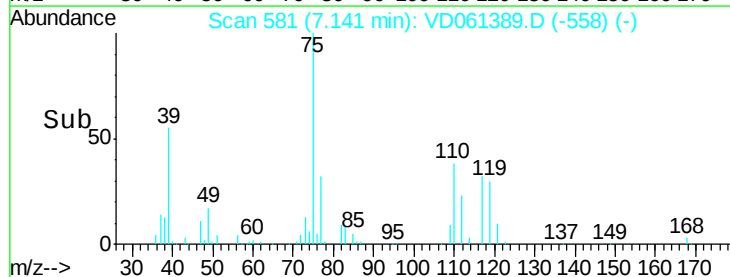
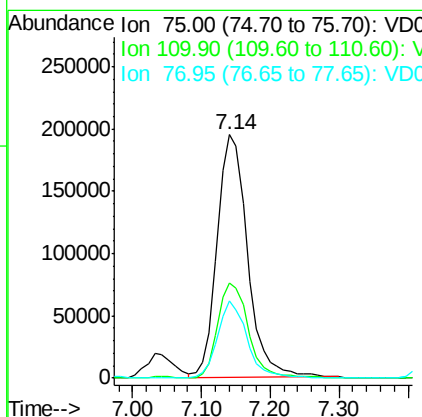
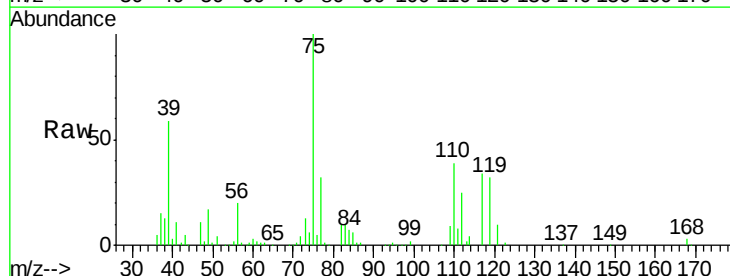
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

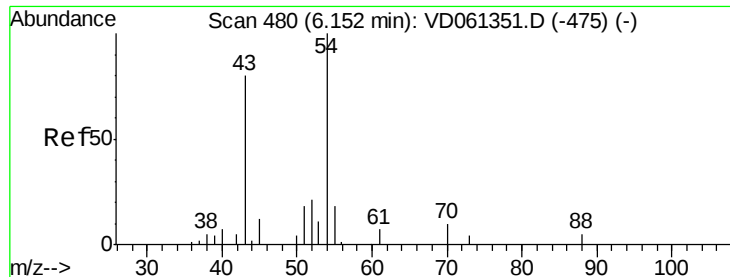
Tot Ion:113 Resp: 497426
 Ion Ratio Lower Upper
 113 100
 111 101.7 81.0 121.6
 192 17.1 14.4 21.6



#36
 1,1-Dichloropropene
 Concen: 54.549 ug/l
 RT: 7.14 min Scan# 581
 Delta R.T. 0.02 min
 Lab File: VD061389.D
 Acq: 28 Mar 2019 14:01

Tgt Ion: 75 Resp: 597542
 Ion Ratio Lower Upper
 75 100
 110 39.3 20.4 61.3
 77 32.0 24.9 37.3

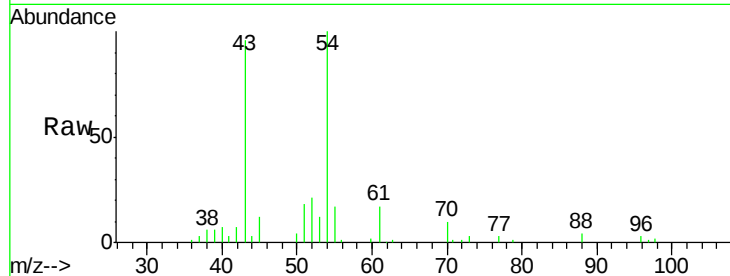




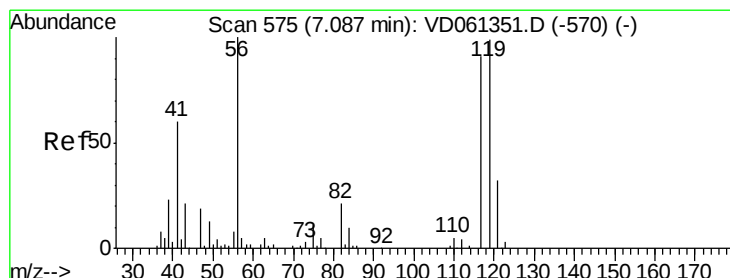
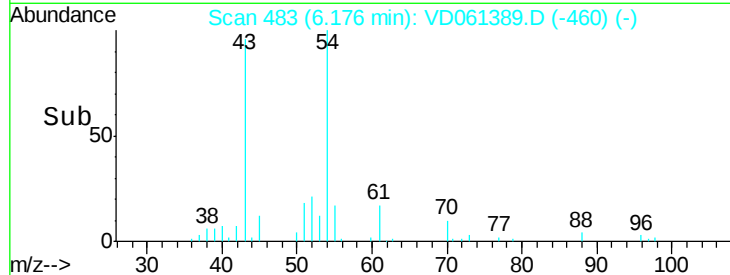
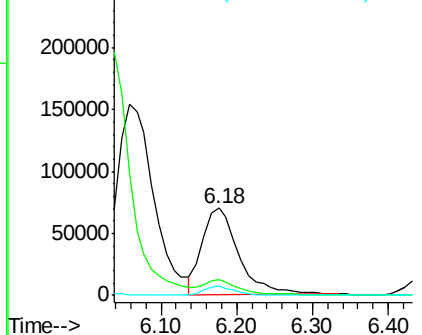
#37
Ethyl Acetate
Concen: 49.498 ug/l
RT: 6.18 min Scan# 483
Delta R.T. 0.02 min
Lab File: VD061389.D
Acq: 28 Mar 2019 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 231890
Ion Ratio Lower Upper
43 100
61 17.4 13.8 20.8
70 10.2 7.8 11.8

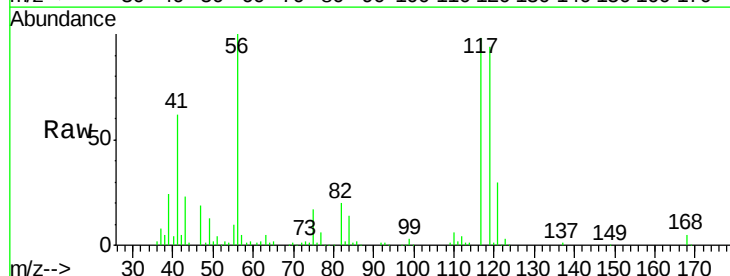


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

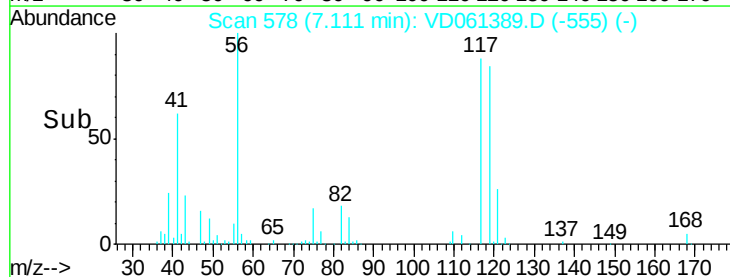
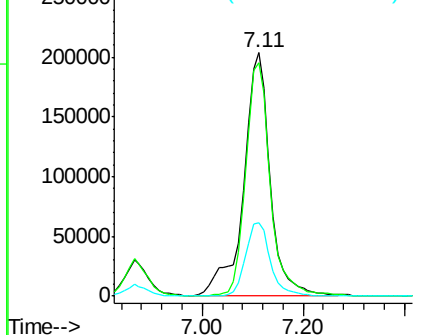


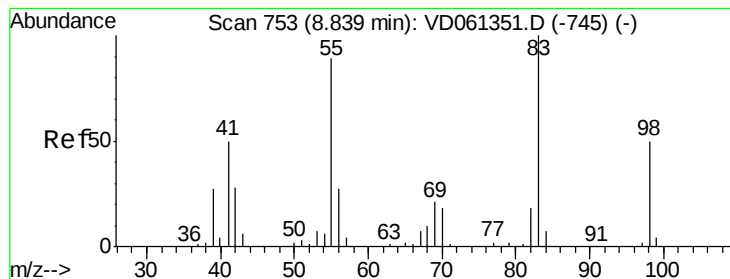
#38
Carbon Tetrachloride
Concen: 58.853 ug/l
RT: 7.11 min Scan# 578
Delta R.T. 0.02 min
Lab File: VD061389.D
Acq: 28 Mar 2019 14:01

Tgt Ion: 117 Resp: 740817
Ion Ratio Lower Upper
117 100
119 96.0 80.1 120.1
121 30.2 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: 55.472 ug/l

RT: 8.86 min Scan# 756

Delta R.T. 0.02 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

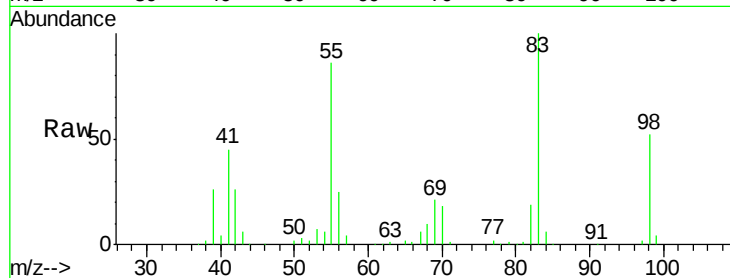
Tot Ion: 83 Resp: 632865

Ion Ratio Lower Upper

83 100

55 86.1 71.5 107.3

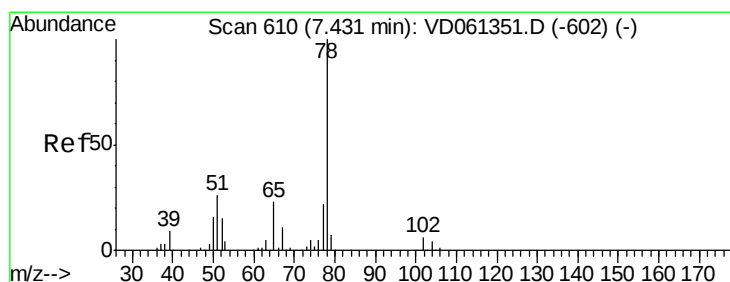
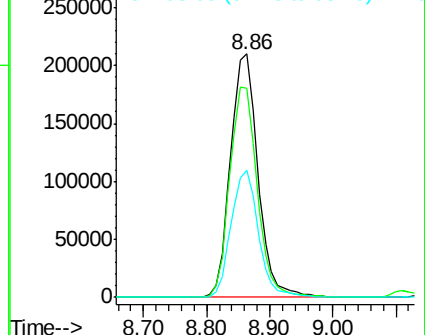
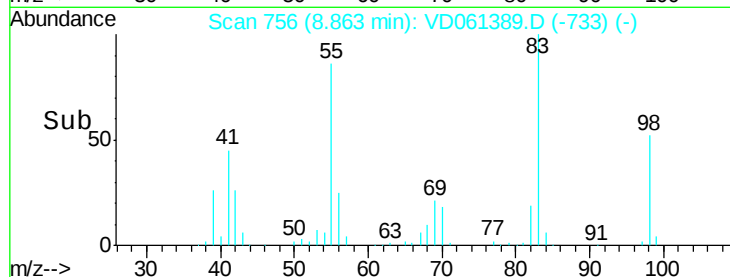
98 52.4 40.3 60.5



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: 52.151 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.01 min

Lab File: VD061389.D

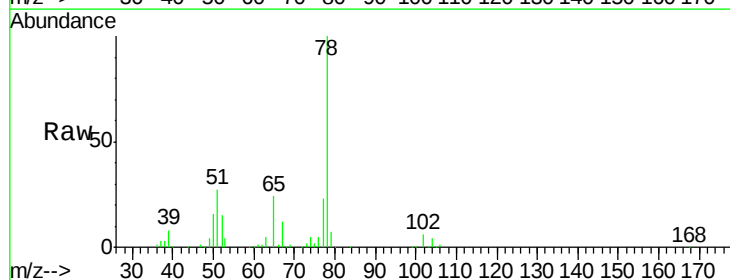
Acq: 28 Mar 2019 14:01

Tgt Ion: 78 Resp: 1433740

Ion Ratio Lower Upper

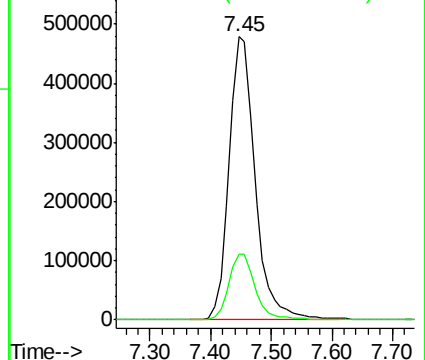
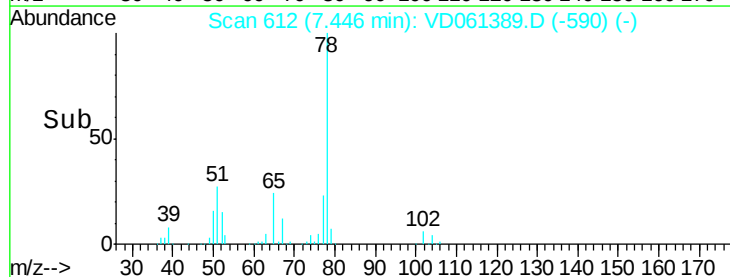
78 100

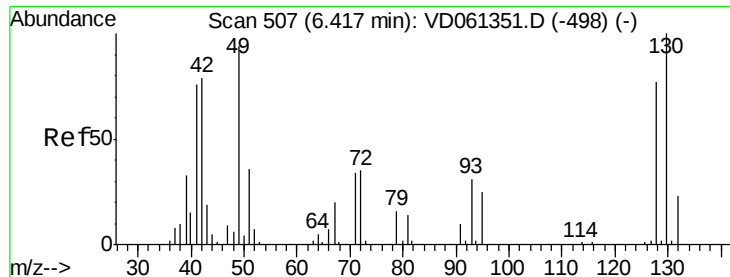
77 23.4 17.8 26.6



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC

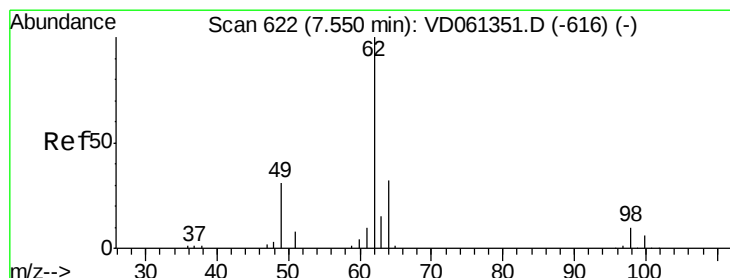
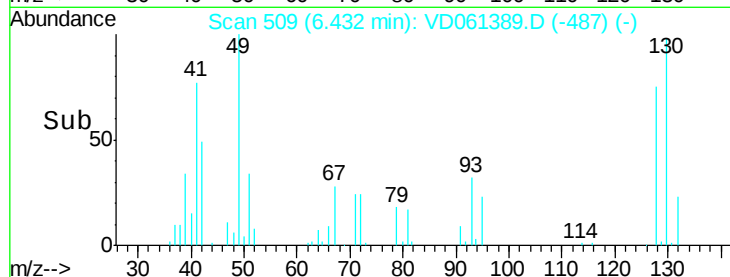
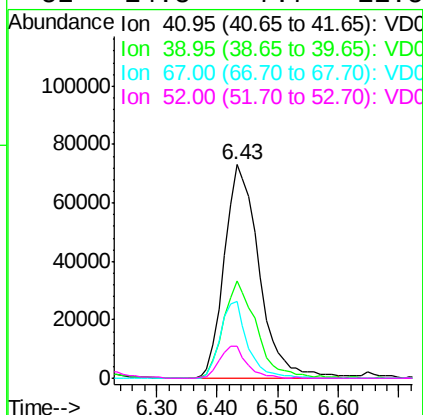
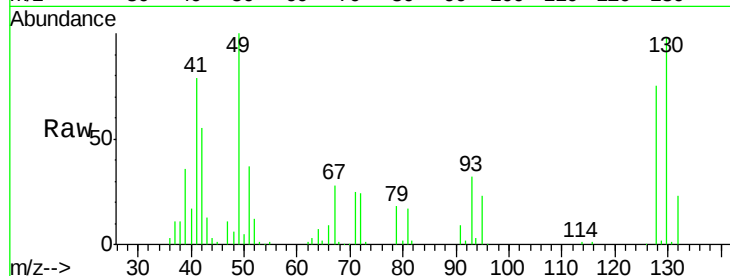




#41
Methacrylonitrile
Concen: 53.413 ug/l
RT: 6.43 min Scan# 509
Delta R.T. 0.01 min
Lab File: VD061389.D
Acq: 28 Mar 2019 14:01

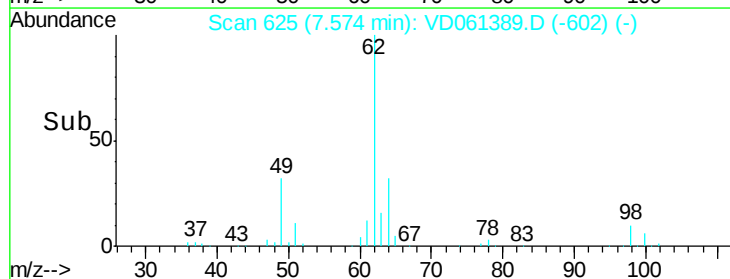
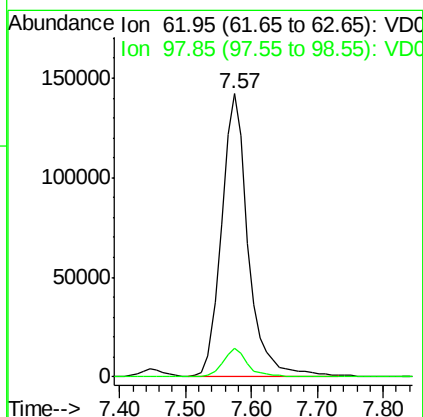
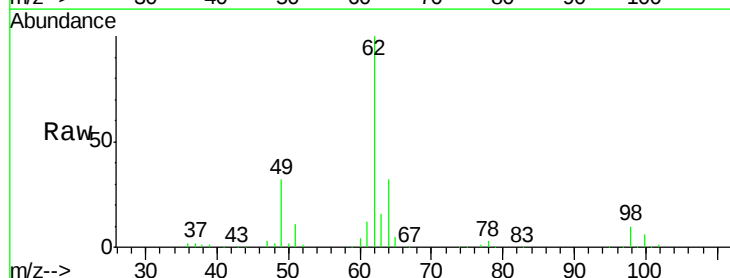
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

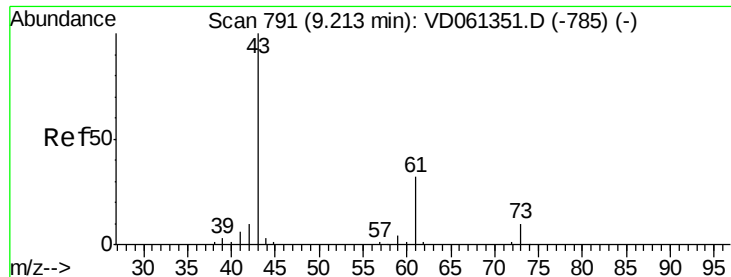
Tot Ion: 41 Resp: 292581
Ion Ratio Lower Upper
41 100
39 45.3 35.0 52.6
67 35.8 21.0 31.6#
52 14.8 7.7 11.5#



#42
1,2-Dichloroethane
Concen: 49.010 ug/l
RT: 7.57 min Scan# 625
Delta R.T. 0.02 min
Lab File: VD061389.D
Acq: 28 Mar 2019 14:01

Tgt Ion: 62 Resp: 403038
Ion Ratio Lower Upper
62 100
98 10.0 0.0 19.8



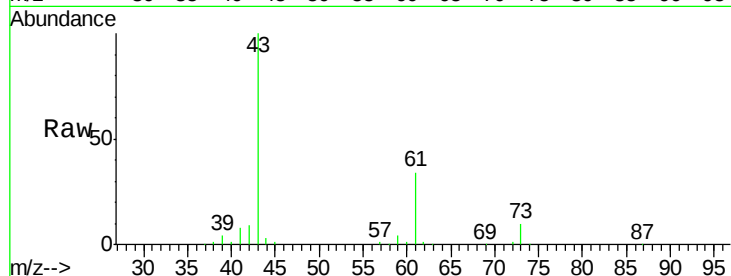


#43

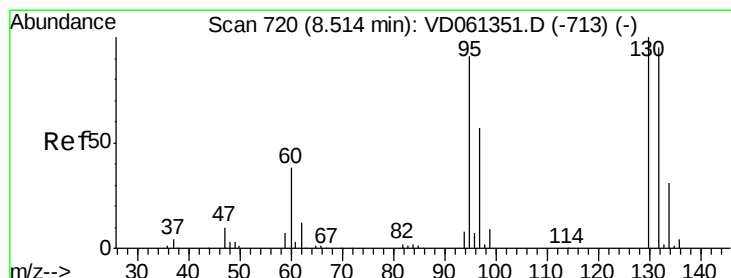
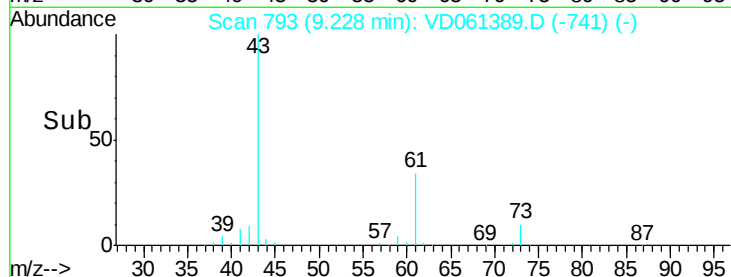
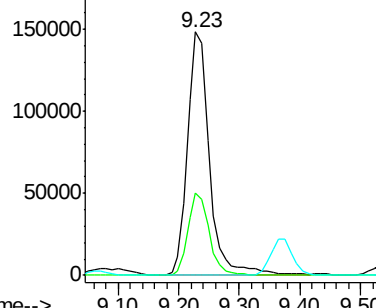
Isopropyl Acetate
 Concen: 54.451 ug/l
 RT: 9.23 min Scan# 793
 Delta R.T. 0.01 min
 Lab File: VD061389.D
 Acq: 28 Mar 2019 14:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 43 Resp: 371159
 Ion Ratio Lower Upper
 43 100
 61 34.0 25.8 38.6
 87 0.2 0.0 0.0#



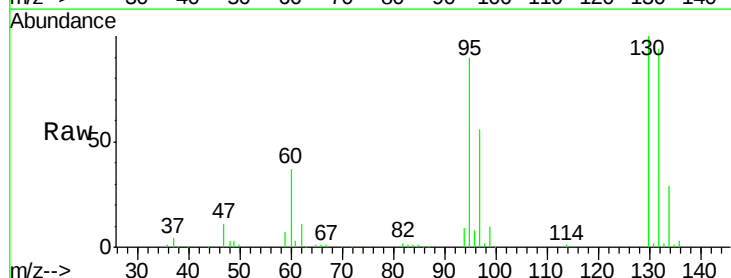
Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



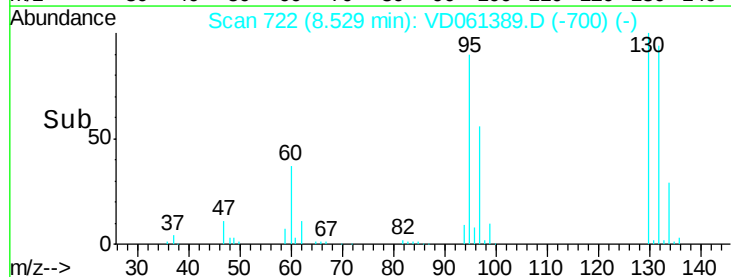
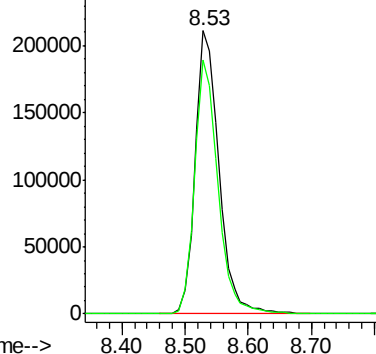
#44

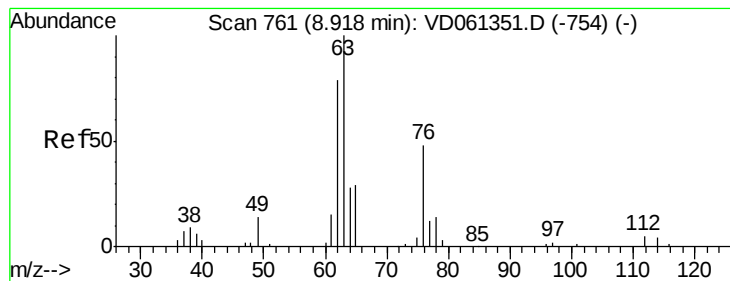
Trichloroethene
 Concen: 53.730 ug/l
 RT: 8.53 min Scan# 722
 Delta R.T. 0.01 min
 Lab File: VD061389.D
 Acq: 28 Mar 2019 14:01

Tgt Ion: 130 Resp: 549723
 Ion Ratio Lower Upper
 130 100
 95 89.6 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: 52.244 ug/l

RT: 8.93 min Scan# 763

Delta R.T. 0.01 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

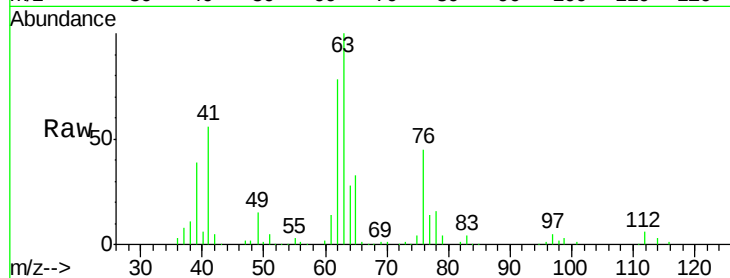
VSTDCCC050

Tot Ion: 63 Resp: 364203

Ion Ratio Lower Upper

63 100

65 33.2 25.0 37.4



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

8.93

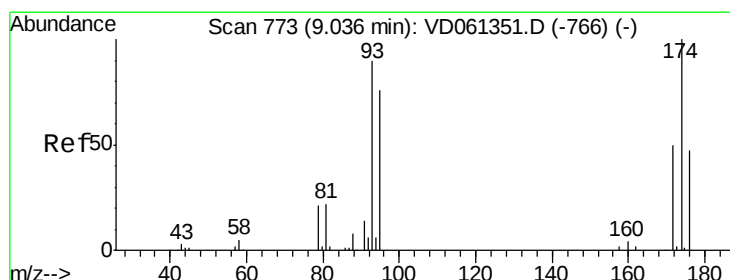
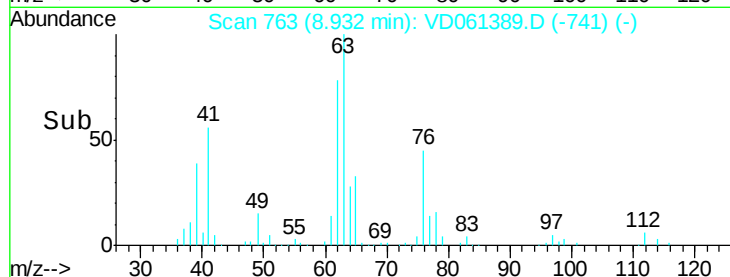
150000

100000

50000

0

Time-->



#46

Dibromomethane

Concen: 54.544 ug/l

RT: 9.05 min Scan# 775

Delta R.T. 0.01 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

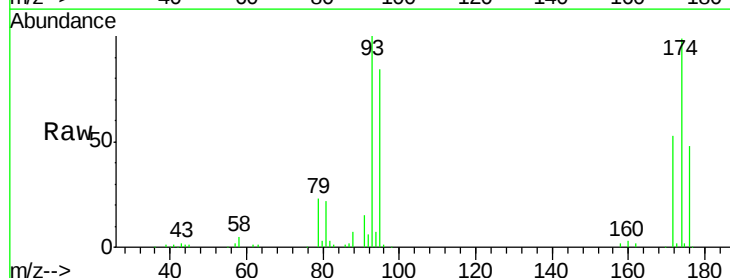
Tgt Ion: 93 Resp: 255930

Ion Ratio Lower Upper

93 100

95 84.2 67.4 101.0

174 98.8 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): V

9.05

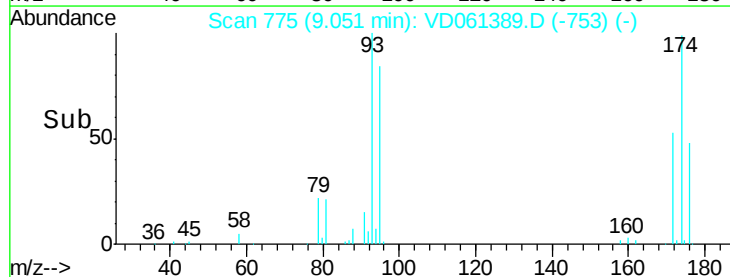
150000

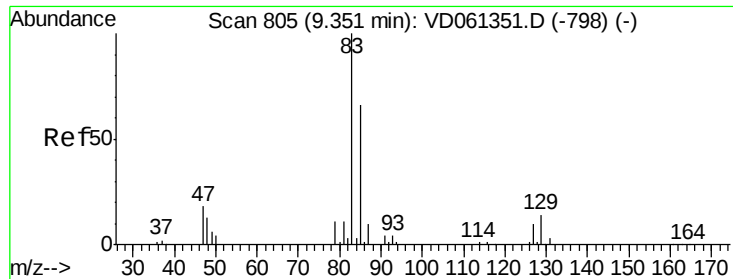
100000

50000

0

Time-->





#47

Bromodichloromethane

Concen: 53.279 ug/l

RT: 9.37 min Scan# 807

Delta R.T. 0.01 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

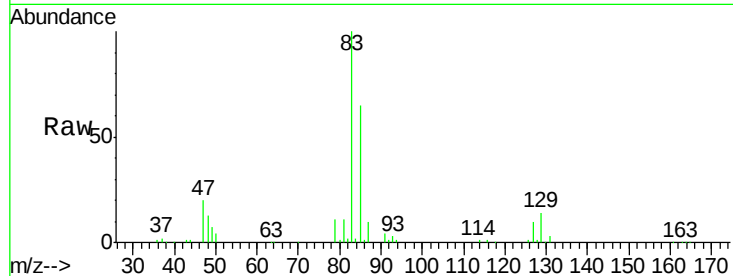
Tot Ion: 83 Resp: 561098

Ion Ratio Lower Upper

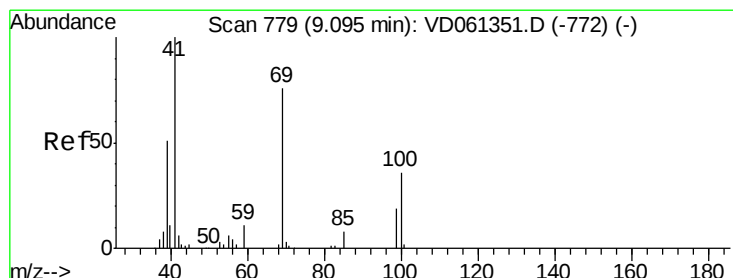
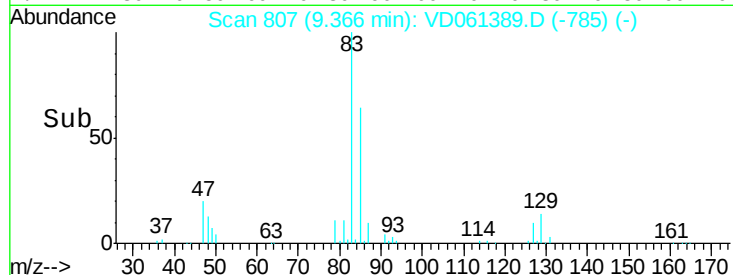
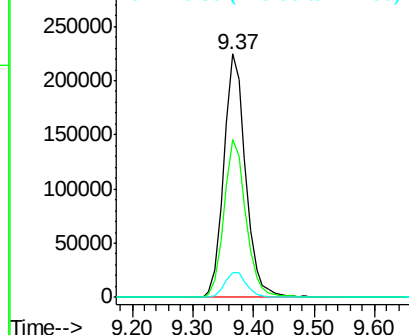
83 100

85 64.7 53.0 79.4

127 10.3 8.4 12.6



Abundance Ion 82.85 (82.55 to 83.55): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 51.748 ug/l

RT: 9.11 min Scan# 781

Delta R.T. 0.01 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

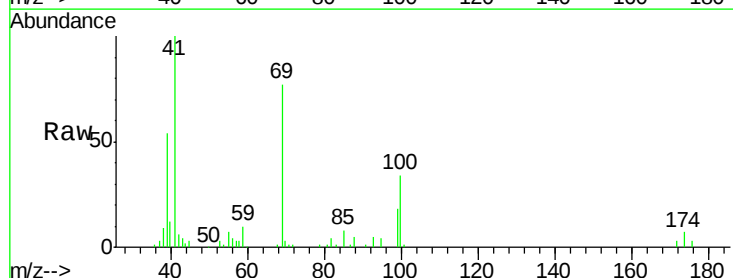
Tgt Ion: 41 Resp: 194669

Ion Ratio Lower Upper

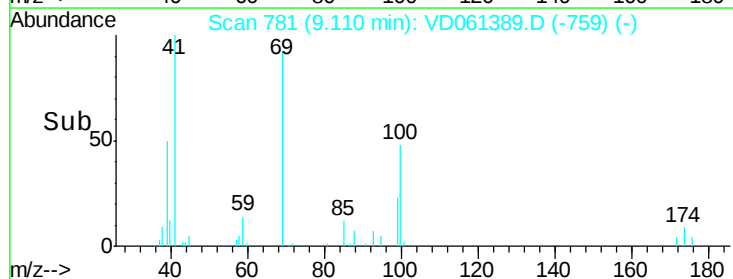
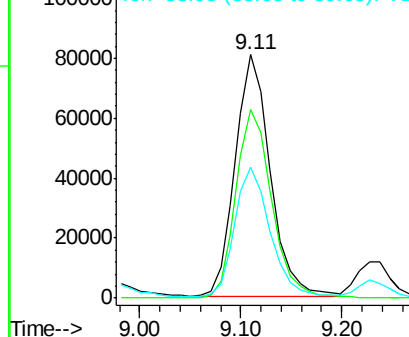
41 100

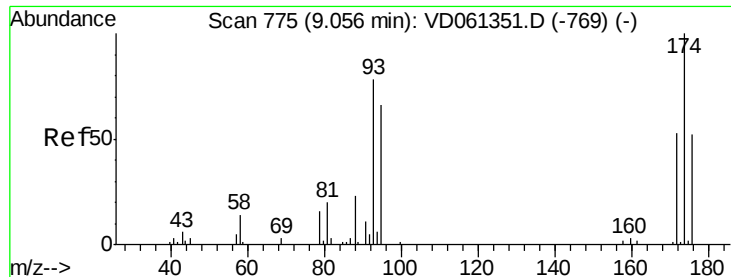
69 77.5 60.2 90.4

39 54.0 41.4 62.2



Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 38.95 (38.65 to 39.65): VDC





#49

1,4-Dioxane

Concen: 1098.803 ug/l

RT: 9.07 min Scan# 777

Delta R.T. 0.01 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

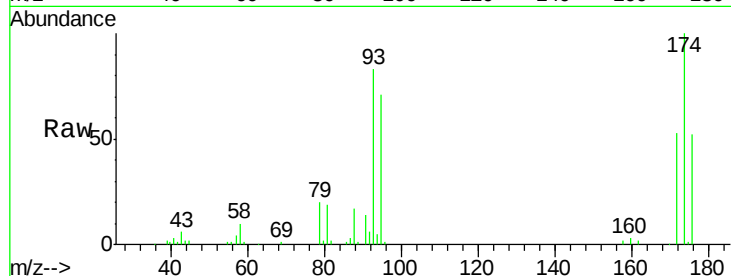
Tot Ion: 88 Resp: 45593

Ion Ratio Lower Upper

88 100

43 33.2 23.3 34.9

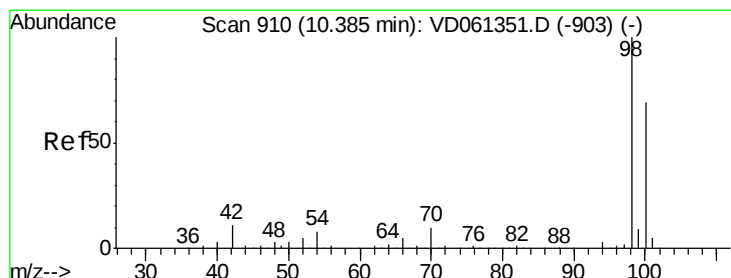
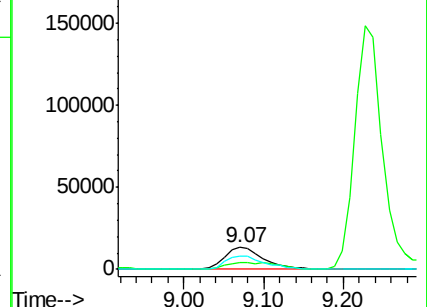
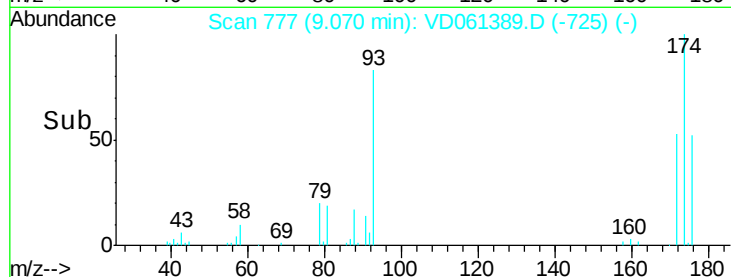
58 61.0 50.8 76.2



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: 1098.803 ug/l

RT: 10.40 min Scan# 912

Delta R.T. 0.01 min

Lab File: VD061389.D

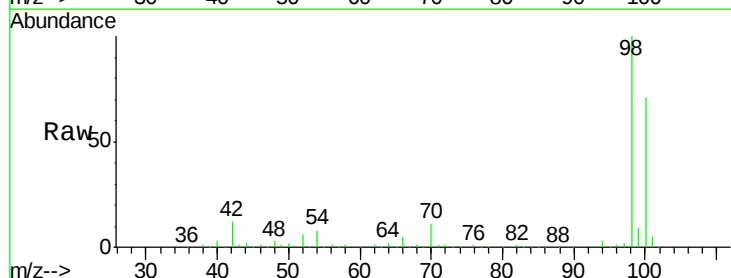
Acq: 28 Mar 2019 14:01

Tgt Ion: 98 Resp: 1176570

Ion Ratio Lower Upper

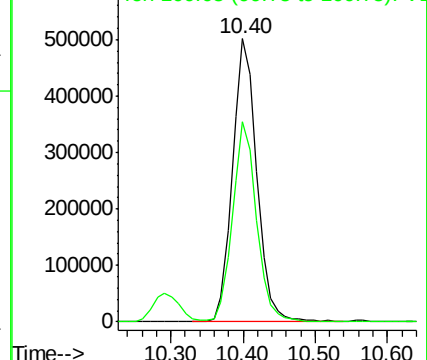
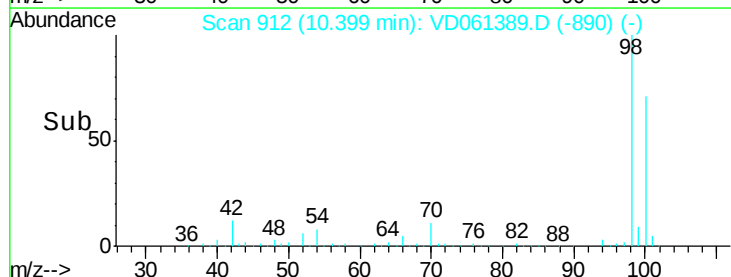
98 100

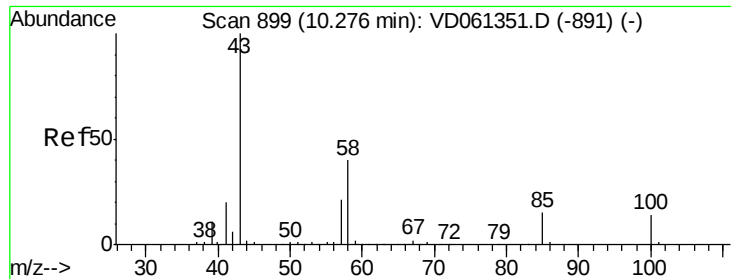
100 70.6 56.2 84.2



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: 248.138 ug/l

RT: 10.29 min Scan# 901

Delta R.T. 0.01 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

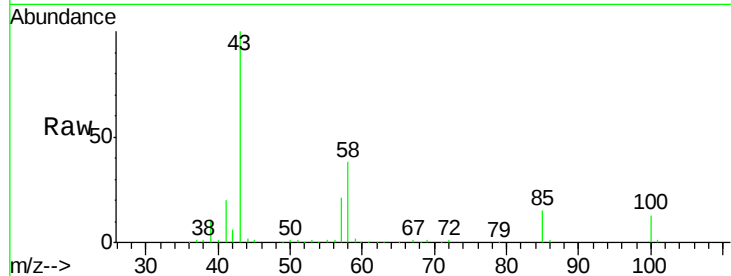
VSTDCCC050

Tot Ion: 43 Resp: 1029040

Ion Ratio Lower Upper

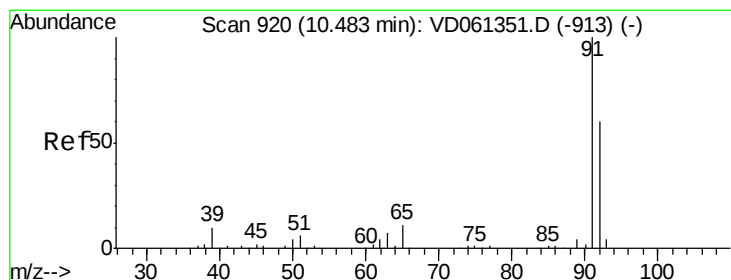
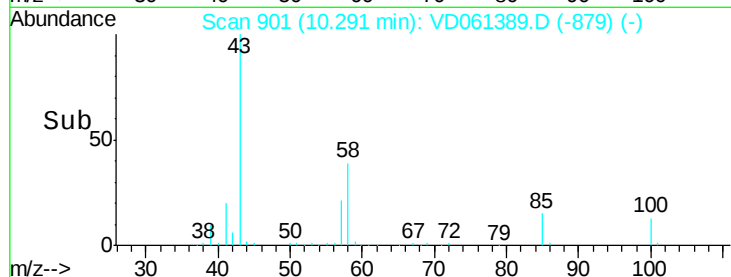
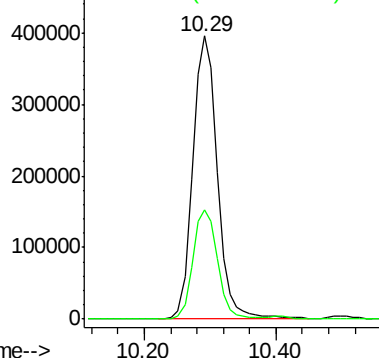
43 100

58 38.5 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: 51.262 ug/l

RT: 10.50 min Scan# 922

Delta R.T. 0.01 min

Lab File: VD061389.D

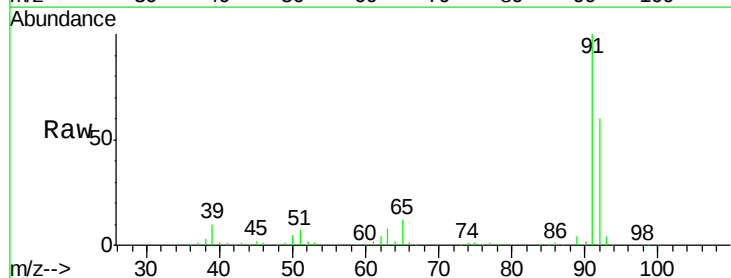
Acq: 28 Mar 2019 14:01

Tgt Ion: 92 Resp: 859786

Ion Ratio Lower Upper

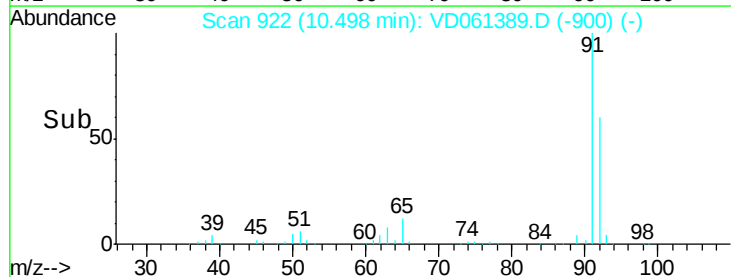
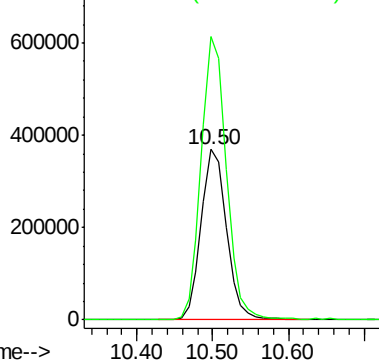
92 100

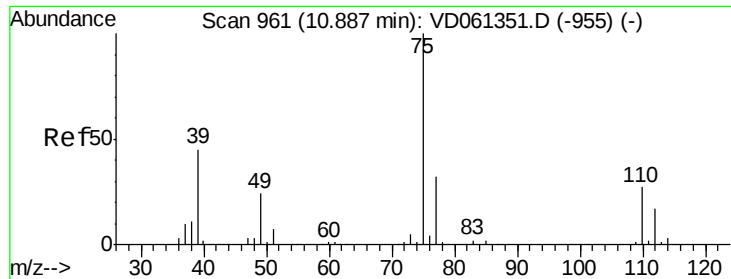
91 166.2 133.3 199.9



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: 51.832 ug/l

RT: 10.90 min Scan# 963

Delta R.T. 0.01 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

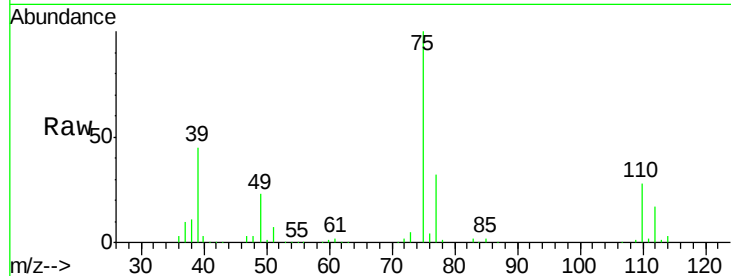
VSTDCCC050

Tot Ion: 75 Resp: 495939

Ion Ratio Lower Upper

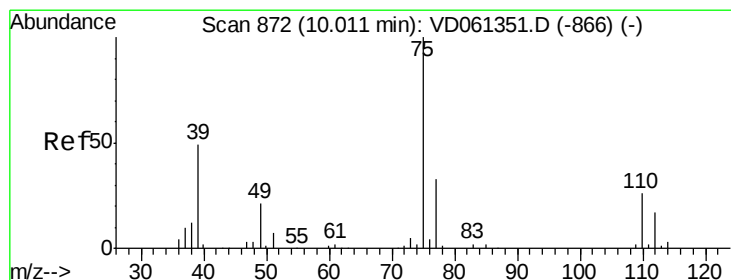
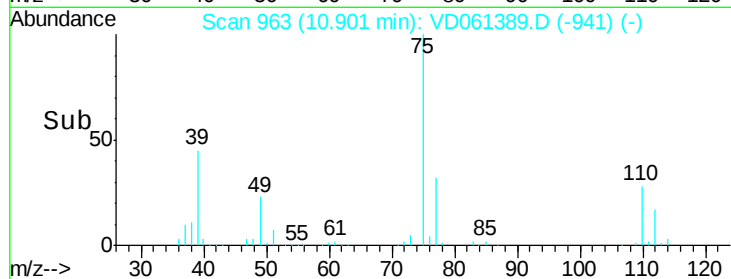
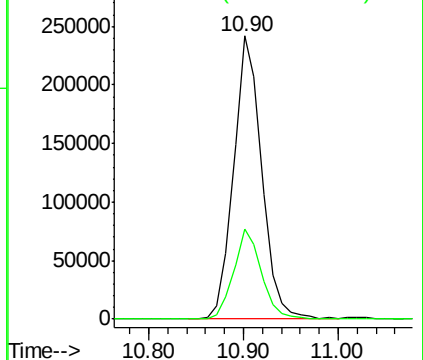
75 100

77 31.6 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#54

cis-1,3-Dichloropropene

Concen: 50.403 ug/l

RT: 10.03 min Scan# 875

Delta R.T. 0.02 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

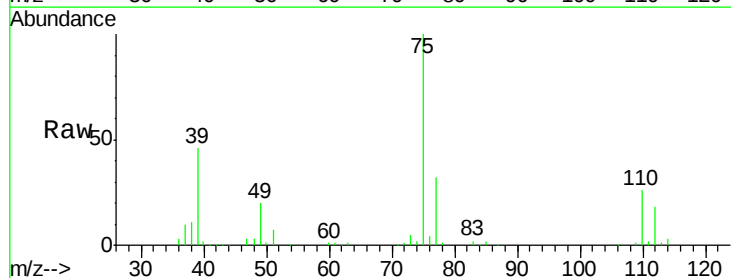
Tgt Ion: 75 Resp: 587243

Ion Ratio Lower Upper

75 100

77 32.1 26.2 39.4

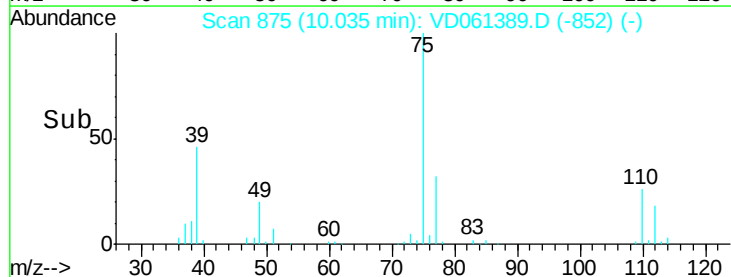
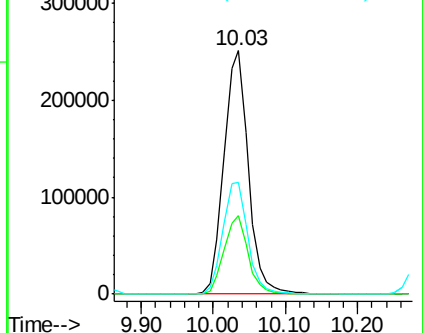
39 45.7 39.4 59.0

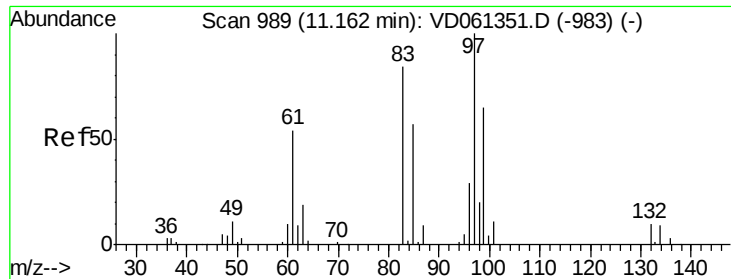


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

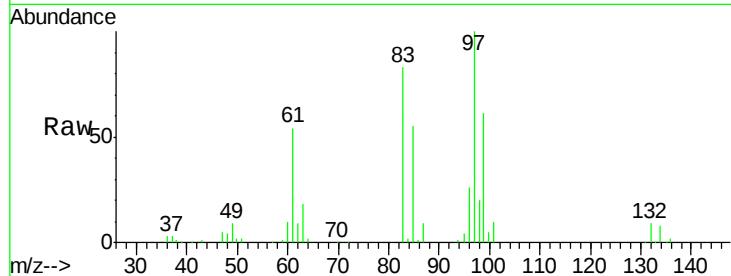




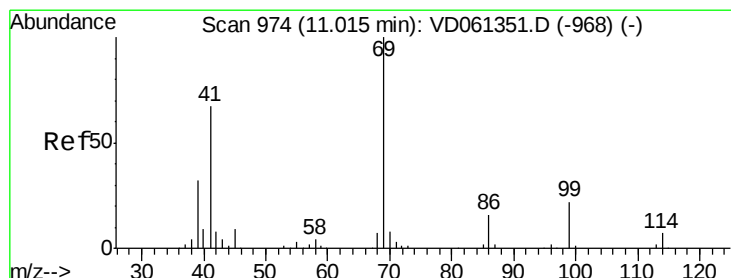
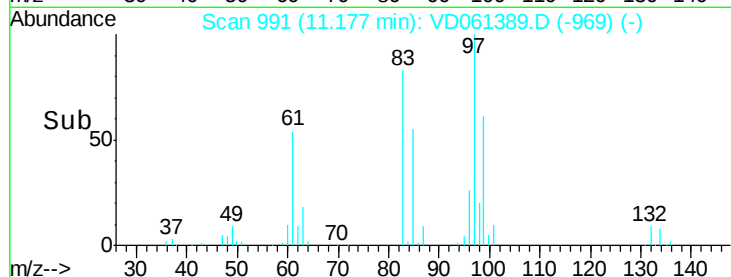
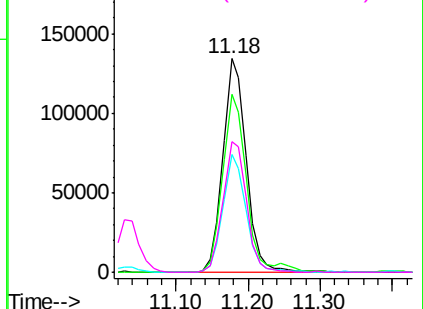
#55
 1,1,2-Trichloroethane
 Concen: 51.271 ug/l
 RT: 11.18 min Scan# 991
 Delta R.T. 0.01 min
 Lab File: VD061389.D
 Acq: 28 Mar 2019 14:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 97 Resp: 300738
 Ion Ratio Lower Upper
 97 100
 83 83.5 67.0 100.6
 85 55.0 45.4 68.2
 99 61.0 51.9 77.9

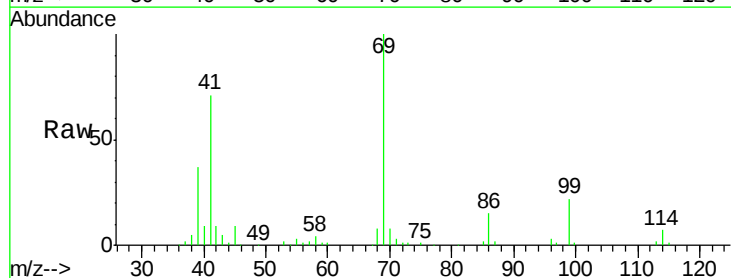


Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC

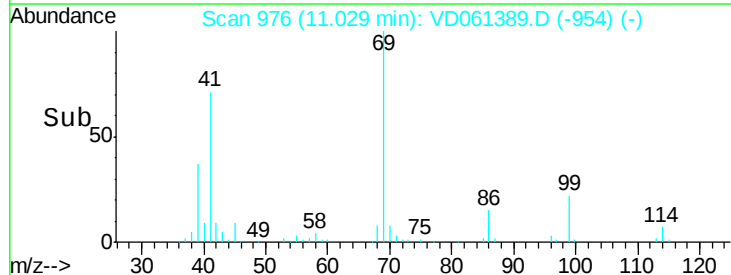
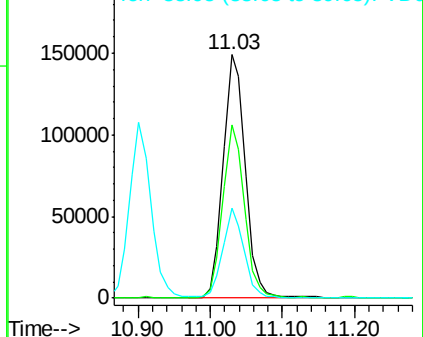


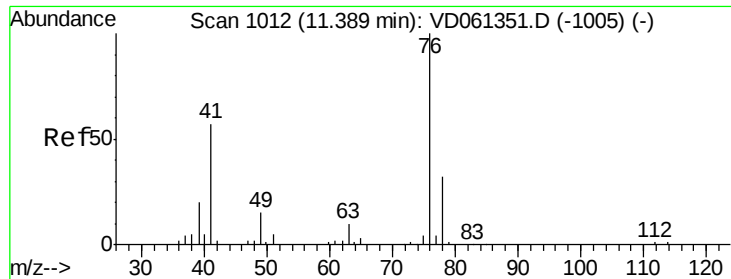
#56
 Ethyl methacrylate
 Concen: 50.334 ug/l
 RT: 11.03 min Scan# 976
 Delta R.T. 0.01 min
 Lab File: VD061389.D
 Acq: 28 Mar 2019 14:01

Tgt Ion: 69 Resp: 317166
 Ion Ratio Lower Upper
 69 100
 41 71.3 53.8 80.6
 39 36.9 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: 49.451 ug/l

RT: 11.40 min Scan# 1014

Delta R.T. 0.01 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

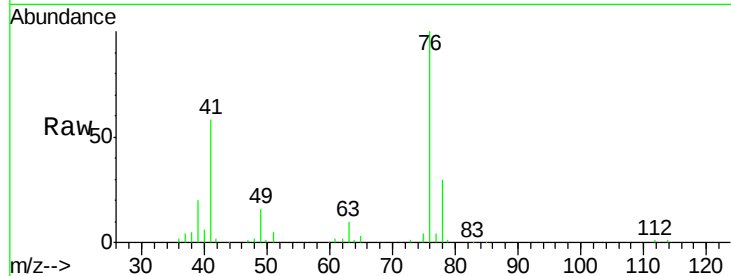
VSTDCCC050

Tot Ion: 76 Resp: 426336

Ion Ratio Lower Upper

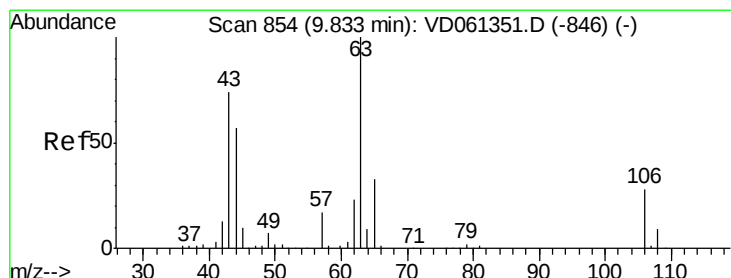
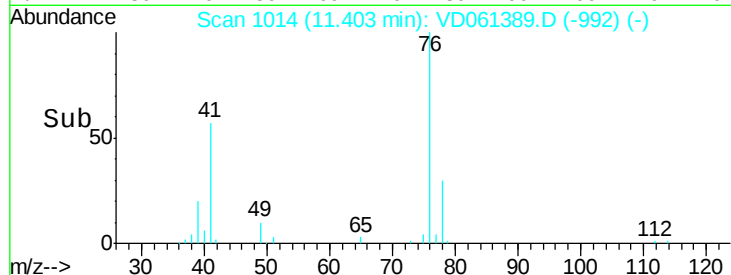
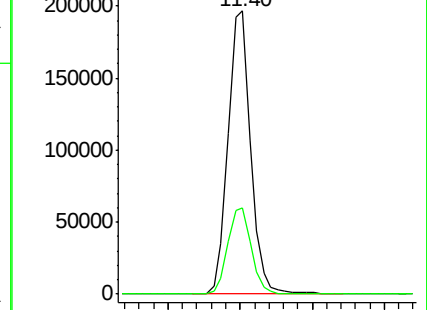
76 100

78 30.4 25.4 38.0



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 246.648 ug/l

RT: 9.85 min Scan# 856

Delta R.T. 0.01 min

Lab File: VD061389.D

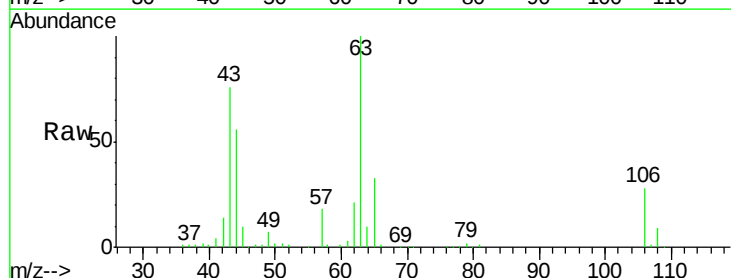
Acq: 28 Mar 2019 14:01

Tgt Ion: 63 Resp: 756886

Ion Ratio Lower Upper

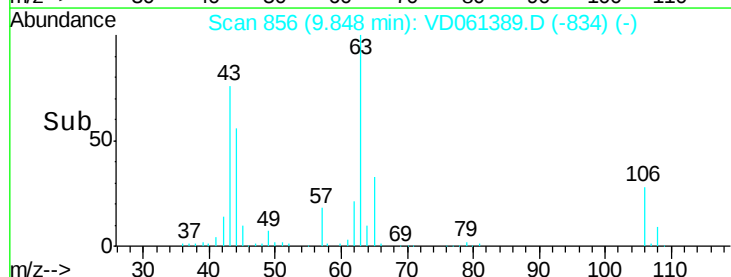
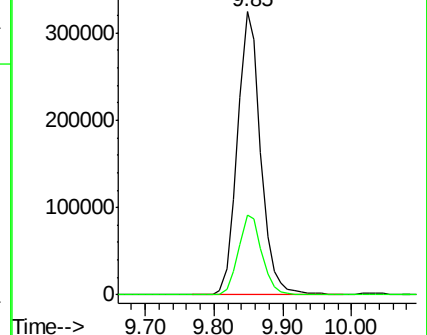
63 100

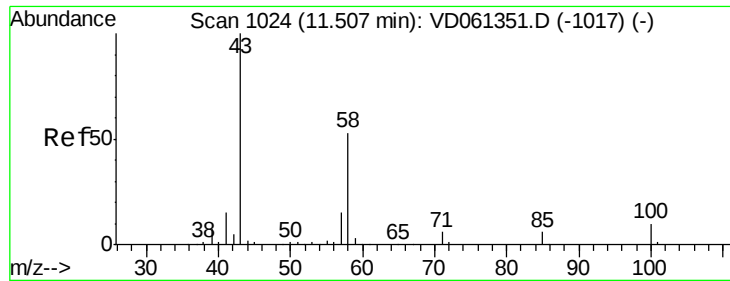
106 28.0 22.4 33.6



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

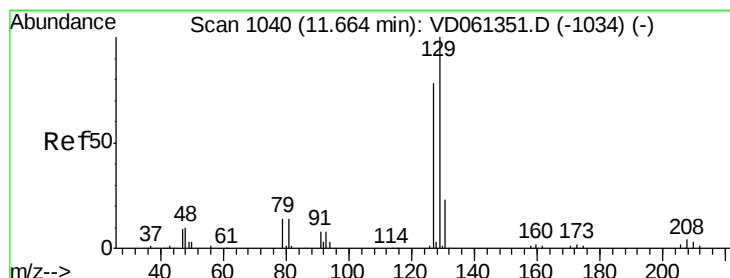
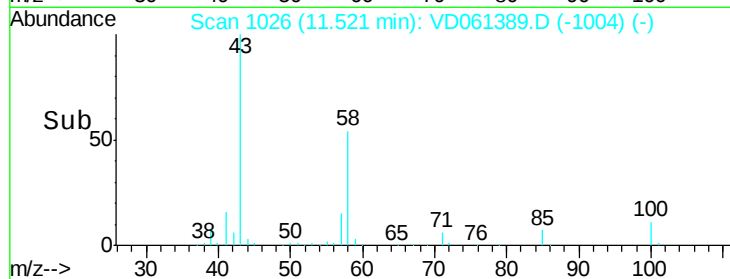
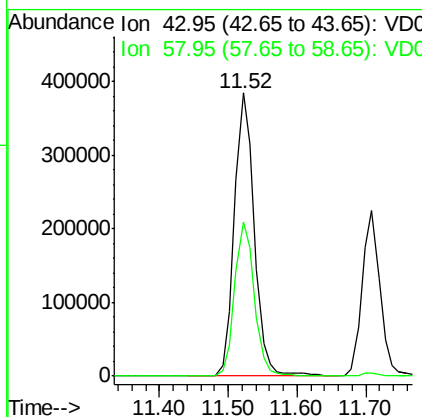
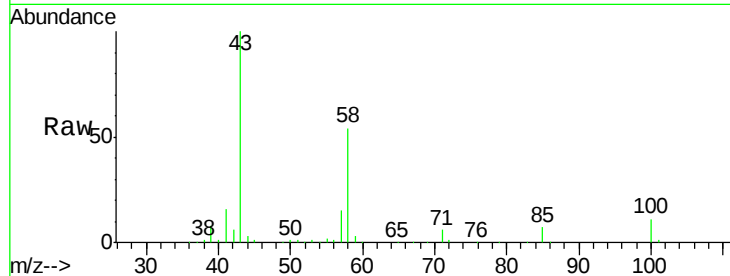




#59
2-Hexanone
Concen: 256.692 ug/l
RT: 11.52 min Scan# 1026
Delta R.T. 0.01 min
Lab File: VD061389.D
Acq: 28 Mar 2019 14:01

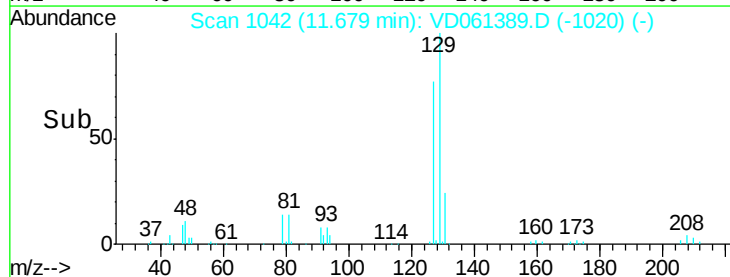
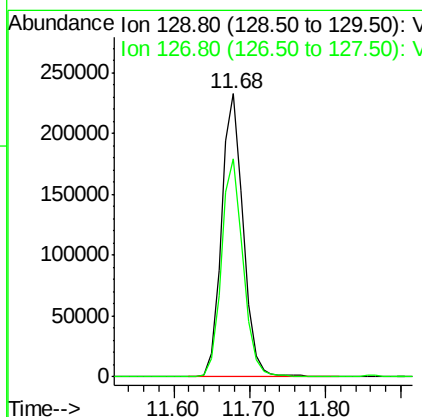
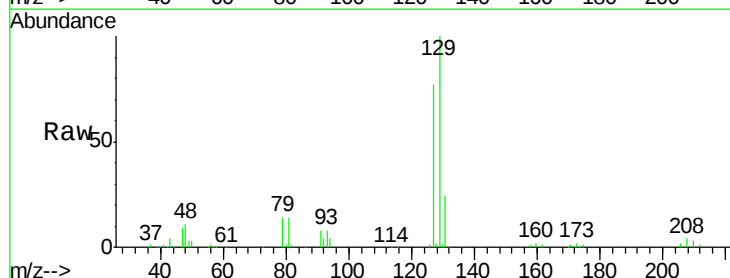
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

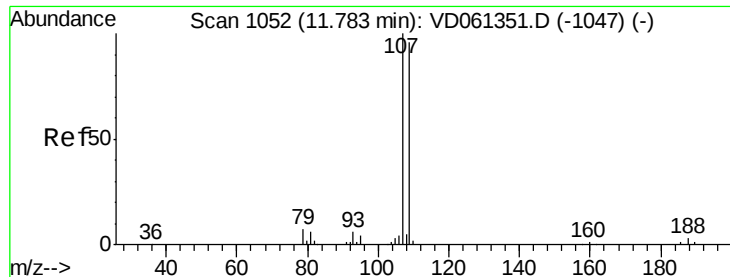
Tot Ion: 43 Resp: 771271
Ion Ratio Lower Upper
43 100
58 54.3 26.3 78.9



#60
Dibromochloromethane
Concen: 50.982 ug/l
RT: 11.68 min Scan# 1042
Delta R.T. 0.01 min
Lab File: VD061389.D
Acq: 28 Mar 2019 14:01

Tgt Ion: 129 Resp: 461004
Ion Ratio Lower Upper
129 100
127 77.2 39.0 116.9

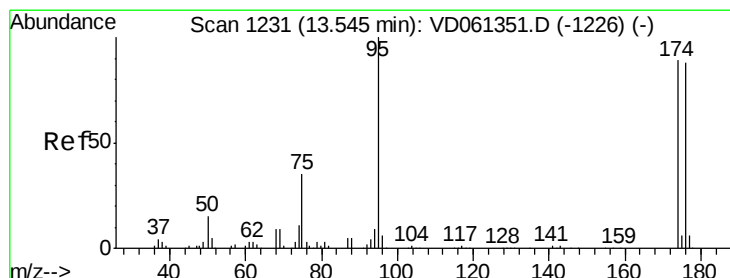
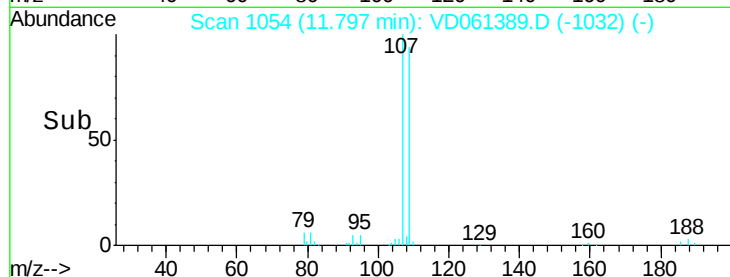
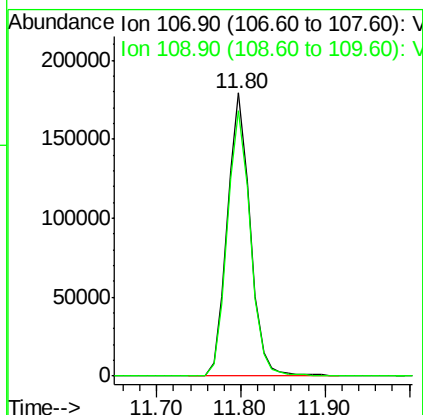
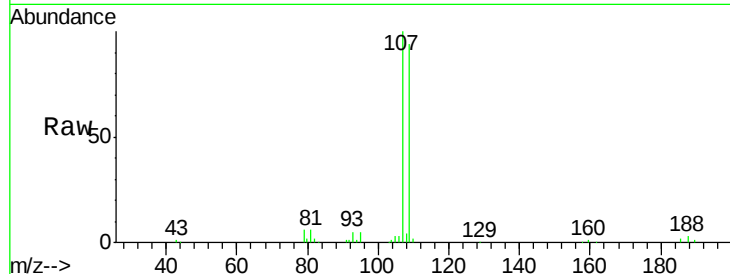




#61
 1,2-Dibromoethane
 Concen: 49.671 ug/l
 RT: 11.80 min Scan# 1054
 Delta R.T. 0.01 min
 Lab File: VD061389.D
 Acq: 28 Mar 2019 14:01

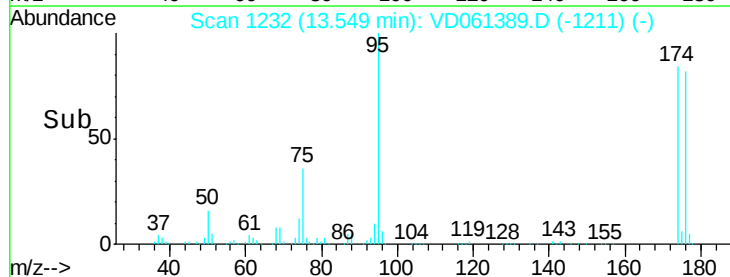
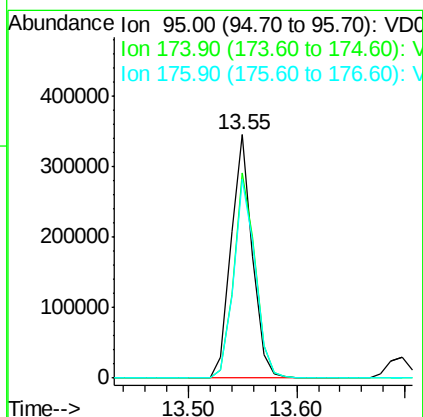
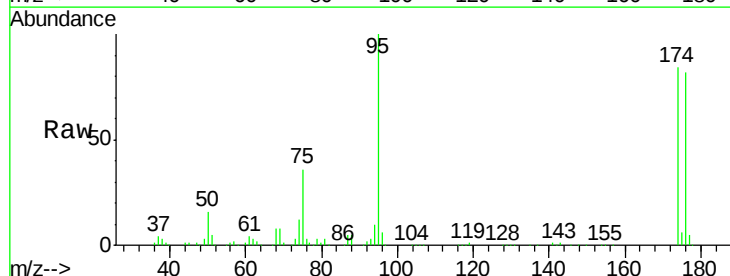
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

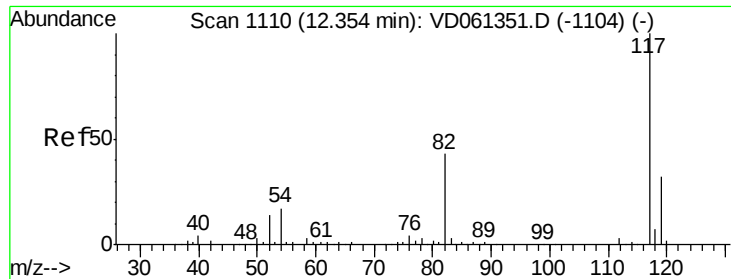
Tot Ion:107 Resp: 337372
 Ion Ratio Lower Upper
 107 100
 109 93.8 76.6 114.8



#62
 4-Bromofluorobenzene
 Concen: 49.671 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. 0.00 min
 Lab File: VD061389.D
 Acq: 28 Mar 2019 14:01

Tgt Ion: 95 Resp: 474059
 Ion Ratio Lower Upper
 95 100
 174 84.1 0.0 178.0
 176 81.6 0.0 175.0

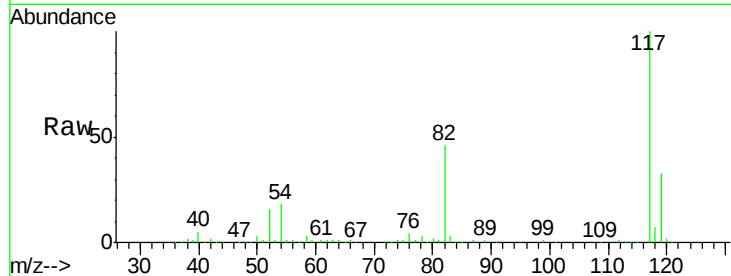




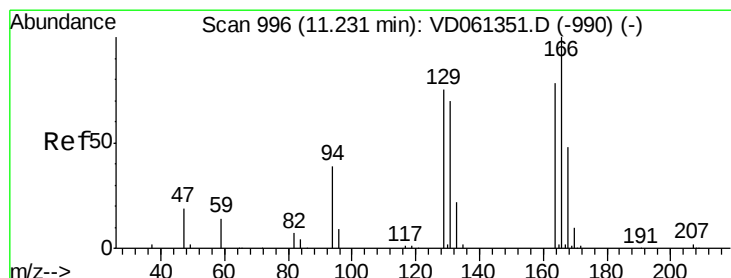
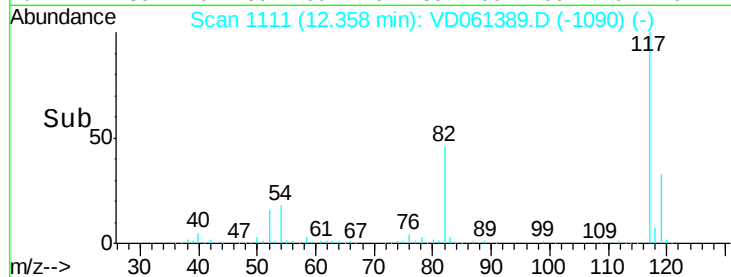
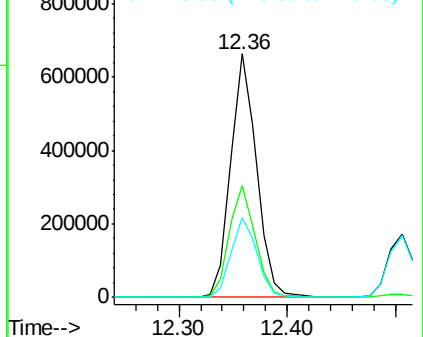
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD061389.D
Acq: 28 Mar 2019 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:117 Resp: 1104439
Ion Ratio Lower Upper
117 100
82 45.9 34.4 51.6
119 32.8 25.8 38.6

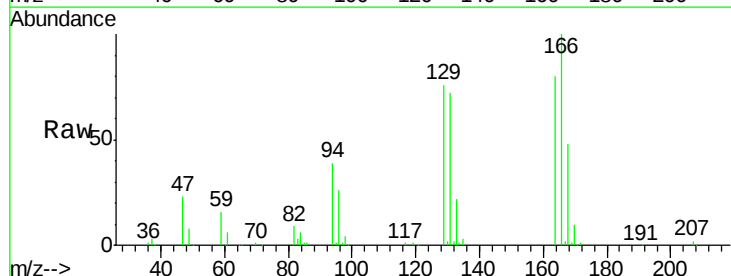


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

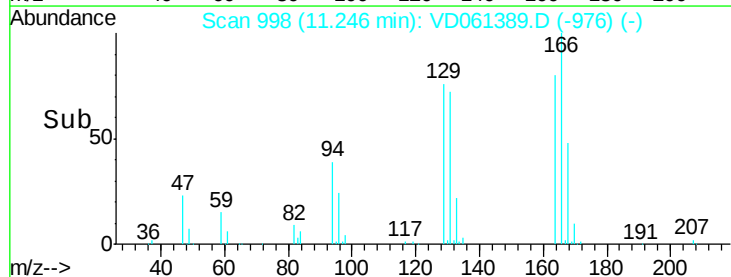
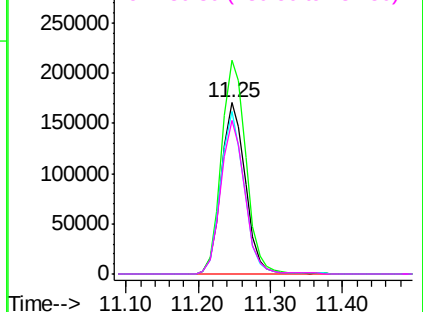


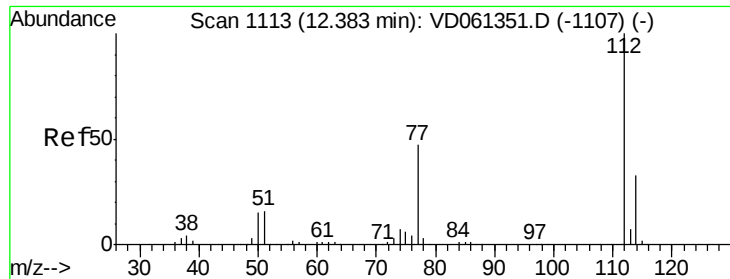
#64
Tetrachloroethene
Concen: 45.567 ug/l
RT: 11.25 min Scan# 998
Delta R.T. 0.01 min
Lab File: VD061389.D
Acq: 28 Mar 2019 14:01

Tgt Ion:164 Resp: 394971
Ion Ratio Lower Upper
164 100
166 124.8 102.4 153.6
129 94.7 76.8 115.2
131 90.0 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: 49.122 ug/l

RT: 12.39 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

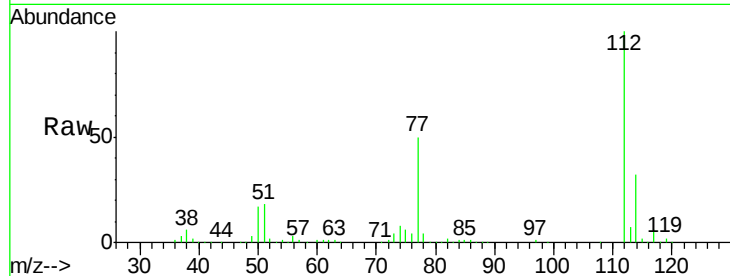
VSTDCCC050

Tot Ion:112 Resp: 1108735

Ion Ratio Lower Upper

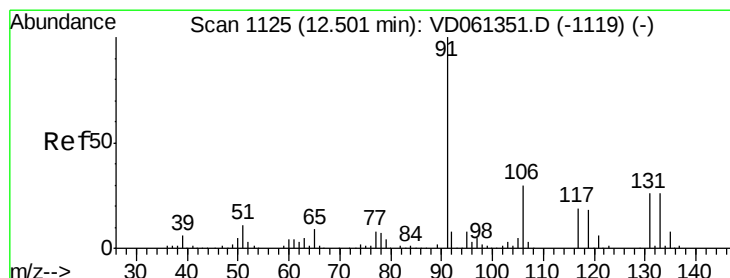
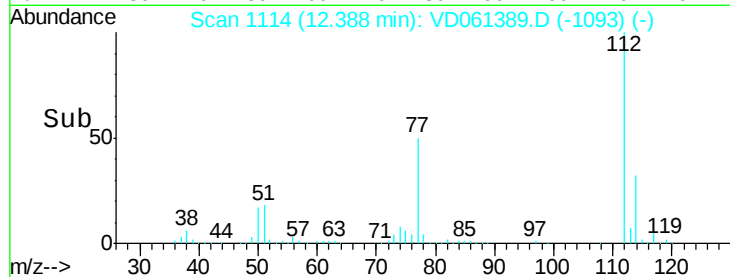
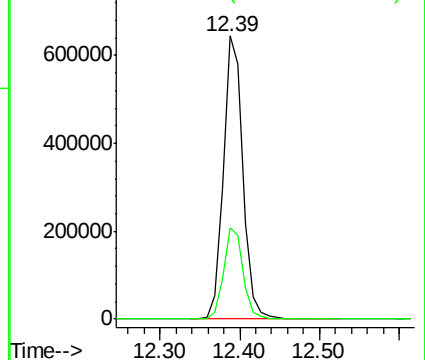
112 100

114 32.3 26.6 39.8



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 46.842 ug/l

RT: 12.51 min Scan# 1126

Delta R.T. 0.00 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

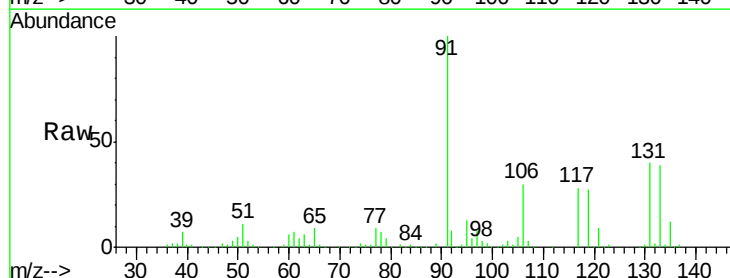
Tgt Ion:131 Resp: 409362

Ion Ratio Lower Upper

131 100

133 96.9 49.4 148.2

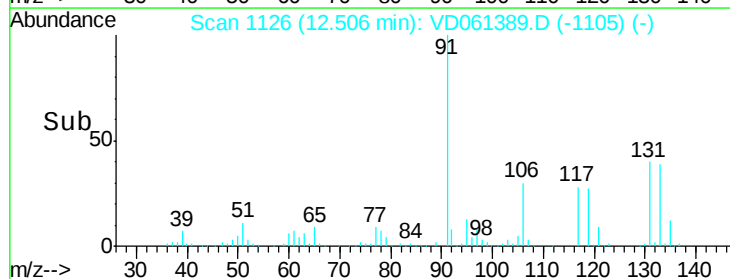
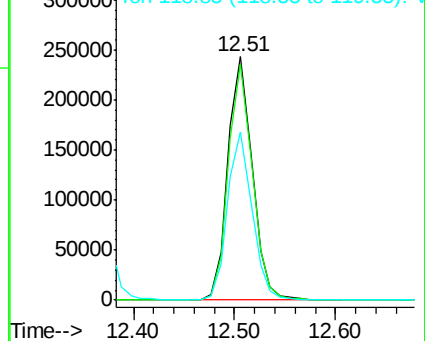
119 69.0 34.1 102.2

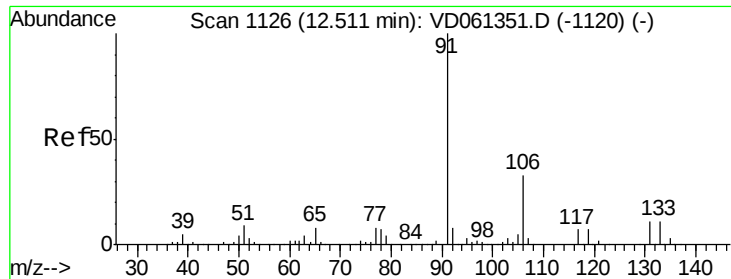


Abundance Ion 130.90 (130.60 to 131.60): V

Ion 132.90 (132.60 to 133.60): V

Ion 118.85 (118.55 to 119.55): V

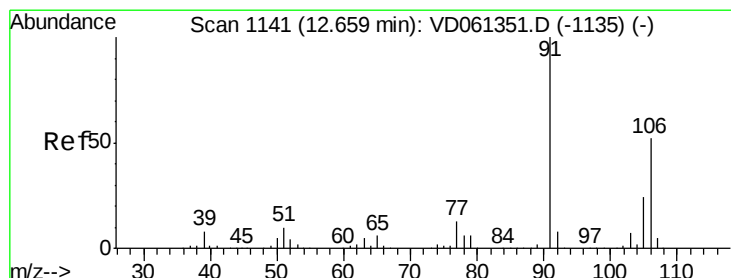
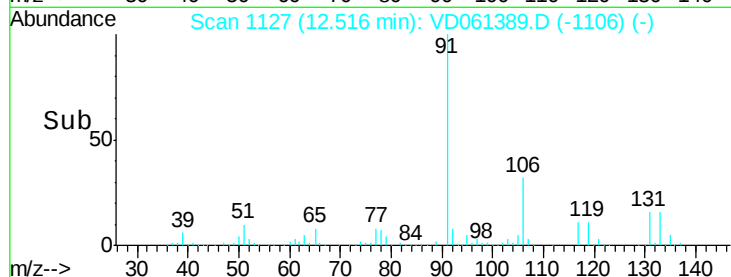
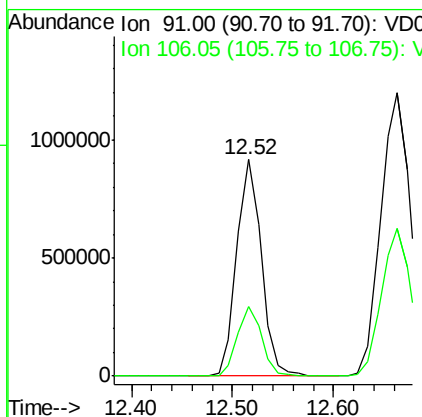
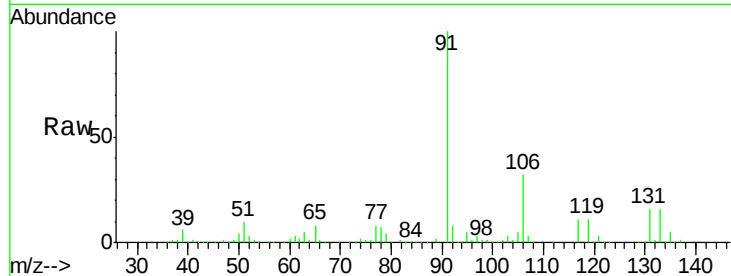




#67
Ethyl Benzene
Concen: 45.024 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. 0.00 min
Lab File: VD061389.D
Acq: 28 Mar 2019 14:01

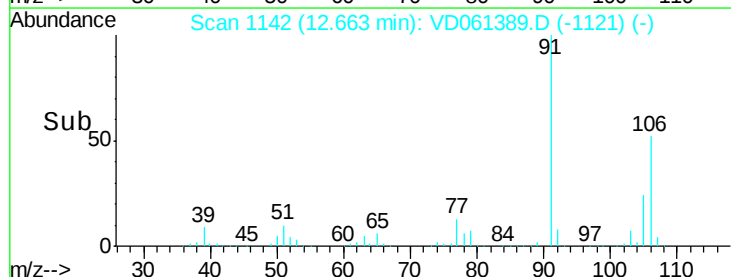
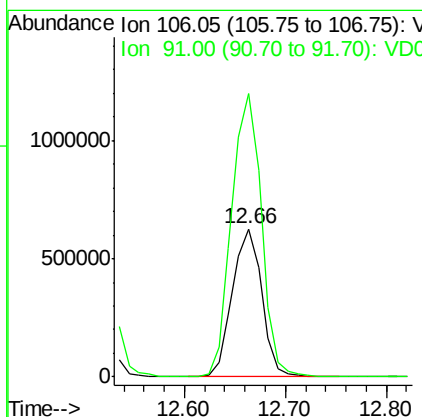
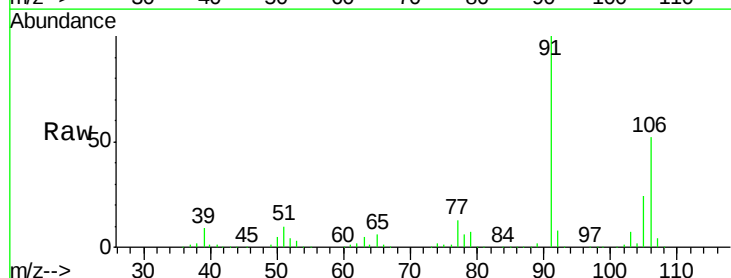
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

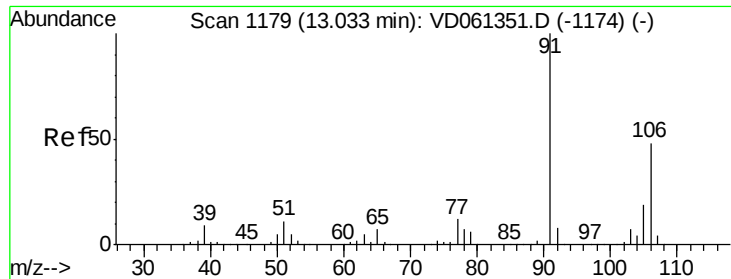
Tot Ion: 91 Resp: 1551154
Ion Ratio Lower Upper
91 100
106 32.1 26.1 39.1



#68
m/p-Xylenes
Concen: 96.811 ug/l
RT: 12.66 min Scan# 1142
Delta R.T. 0.00 min
Lab File: VD061389.D
Acq: 28 Mar 2019 14:01

Tgt Ion: 106 Resp: 1263434
Ion Ratio Lower Upper
106 100
91 191.3 153.1 229.7

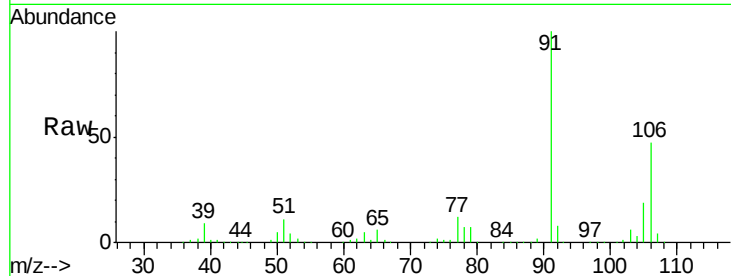




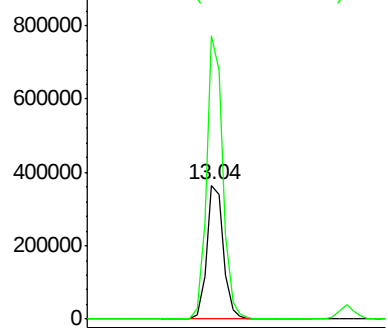
#69
o-Xylene
Concen: 46.672 ug/l
RT: 13.04 min Scan# 1180
Delta R.T. 0.00 min
Lab File: VD061389.D
Acq: 28 Mar 2019 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

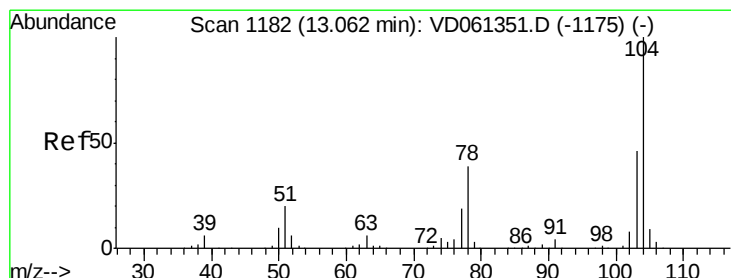
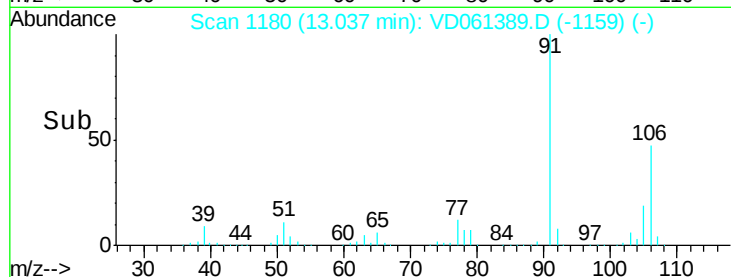
Tot Ion:106 Resp: 591078
Ion Ratio Lower Upper
106 100
91 211.4 103.8 311.3



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

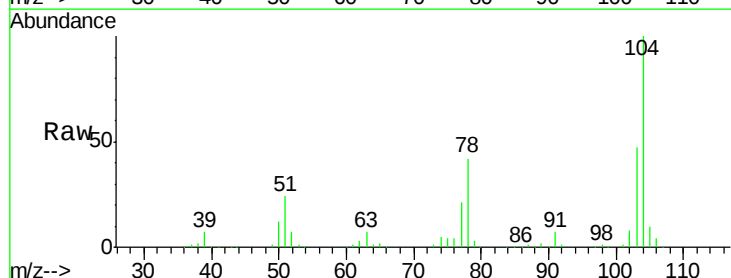


Time--> 12.90 13.00 13.10 13.20

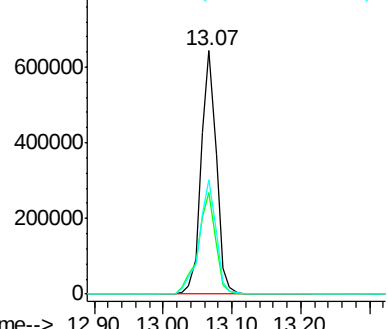


#70
Styrene
Concen: 44.495 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. 0.00 min
Lab File: VD061389.D
Acq: 28 Mar 2019 14:01

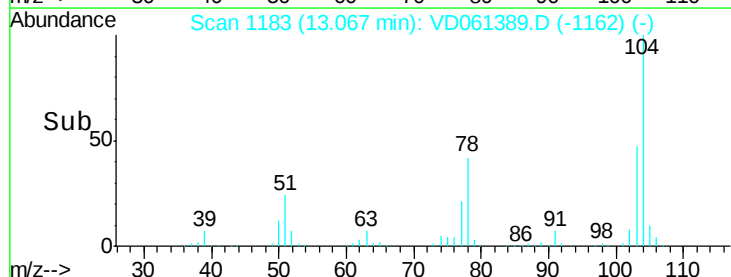
Tgt Ion:104 Resp: 982309
Ion Ratio Lower Upper
104 100
78 41.8 31.0 46.6
103 47.0 37.0 55.4

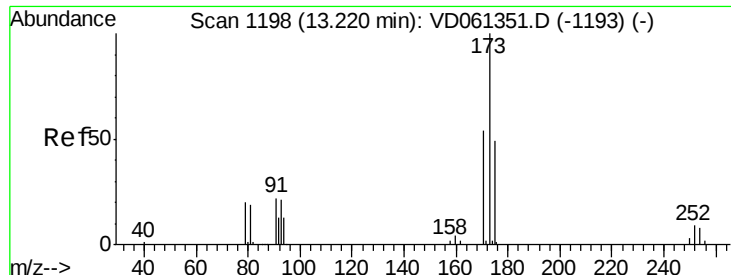


Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): VDC
Ion 103.05 (102.75 to 103.75): V



Time--> 12.90 13.00 13.10 13.20





#71

Bromoform

Concen: 44.064 ug/l

RT: 13.22 min Scan# 1199

Delta R.T. 0.00 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

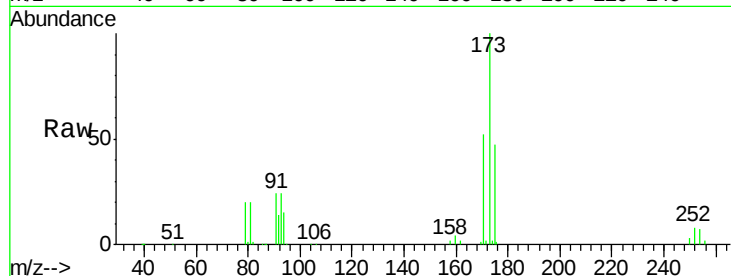
Tot Ion:173 Resp: 244108

Ion Ratio Lower Upper

173 100

175 46.9 24.6 73.8

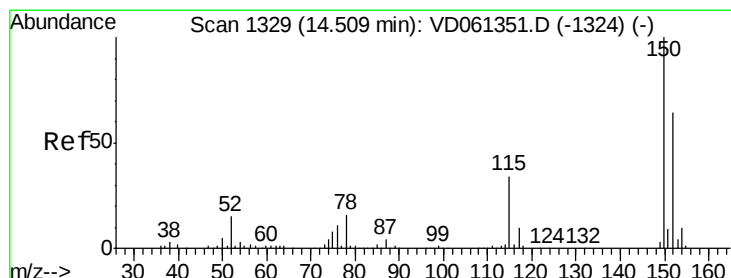
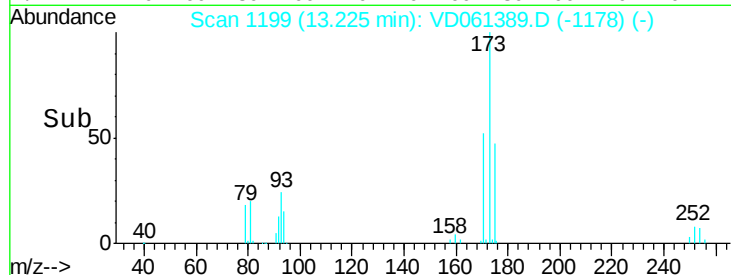
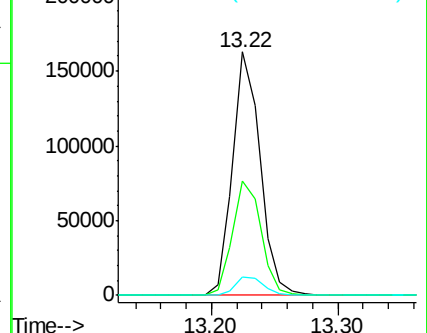
254 7.3 6.6 10.0



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: VD061389.D

Acq: 28 Mar 2019 14:01

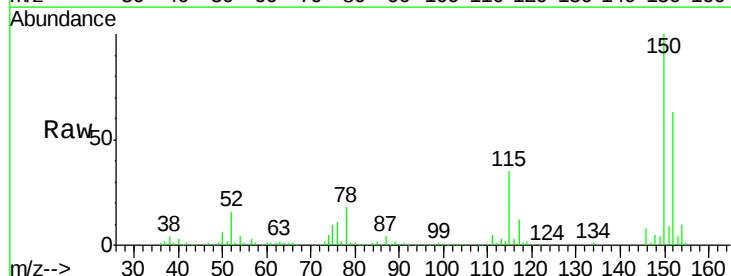
Tgt Ion:152 Resp: 457924

Ion Ratio Lower Upper

152 100

115 55.4 26.9 80.6

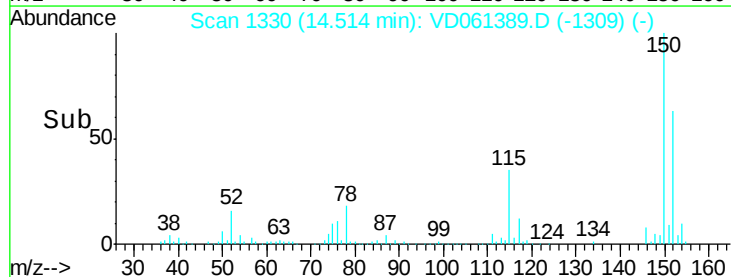
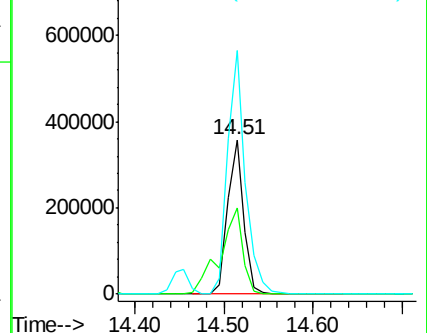
150 157.6 0.0 318.0

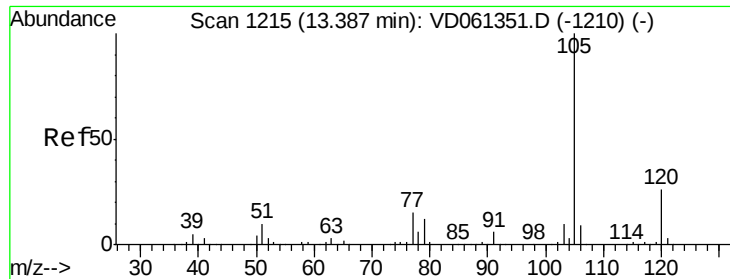


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 51.866 ug/l

RT: 13.40 min Scan# 1217

Delta R.T. 0.01 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

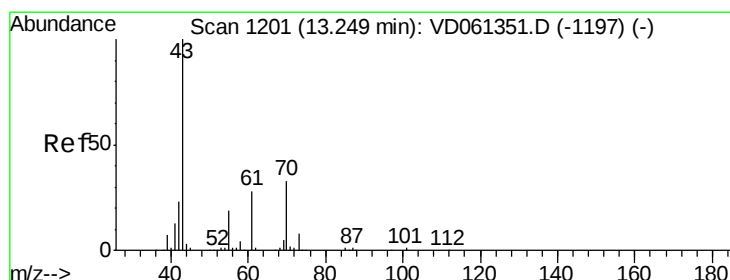
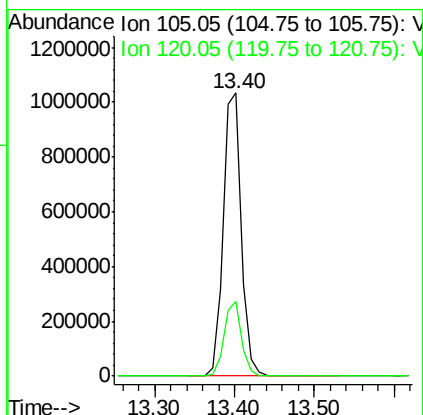
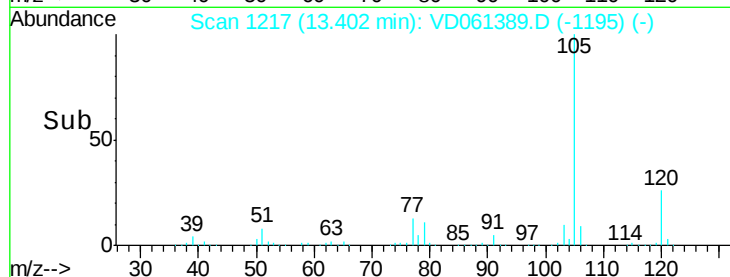
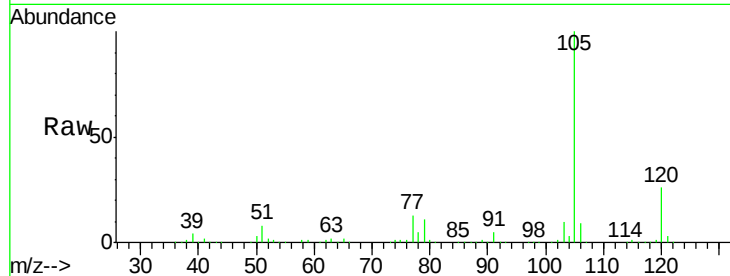
VSTDCCC050

Tot Ion:105 Resp: 1653027

Ion Ratio Lower Upper

105 100

120 26.3 12.8 38.3



#74

N-ethyl acetate

Concen: 47.893 ug/l

RT: 13.26 min Scan# 1203

Delta R.T. 0.01 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

Tgt Ion: 43 Resp: 425213

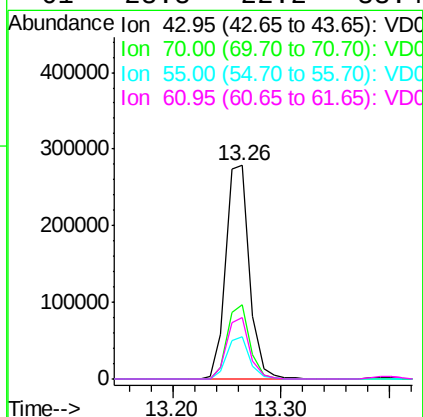
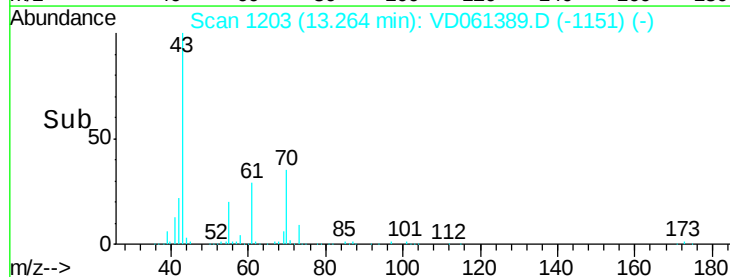
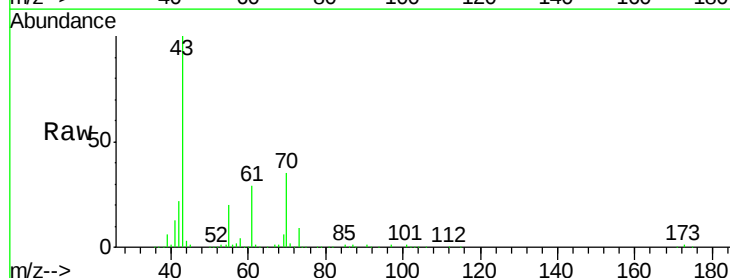
Ion Ratio Lower Upper

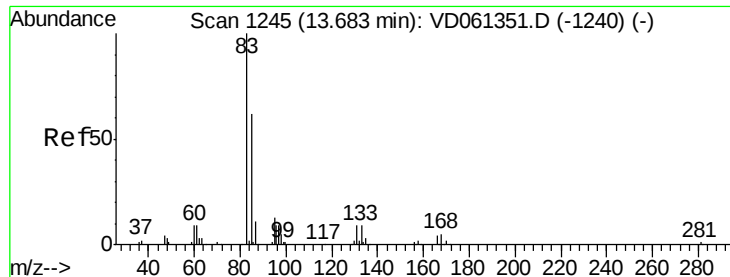
43 100

70 35.0 26.6 40.0

55 19.6 15.4 23.2

61 28.8 22.2 33.4





#75

1,1,2,2-Tetrachloroethane

Concen: 47.071 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. 0.01 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

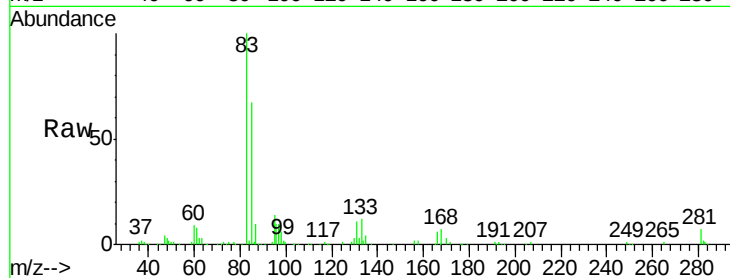
Tot Ion: 83 Resp: 316470

Ion	Ratio	Lower	Upper
83	100		
131	11.0	4.3	13.1
85	67.2	31.2	93.6

83 100

131 11.0 4.3 13.1

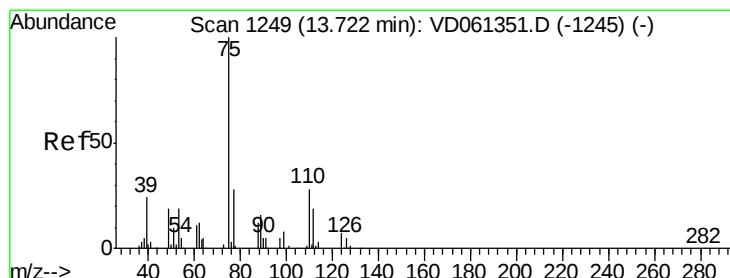
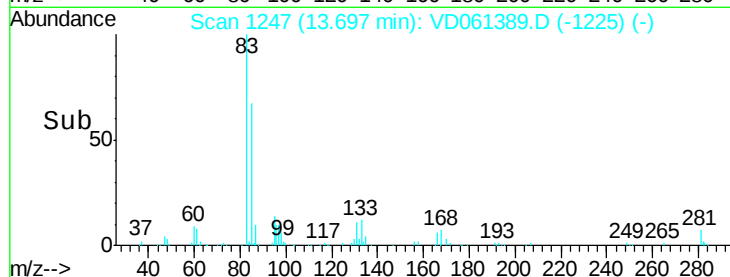
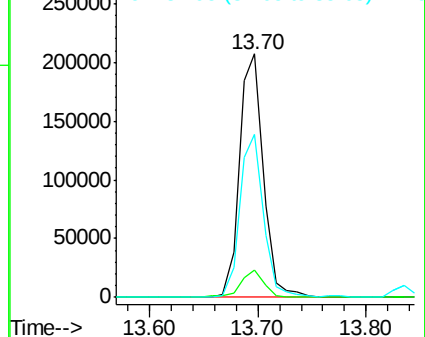
85 67.2 31.2 93.6



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: 48.688 ug/l

RT: 13.73 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VD061389.D

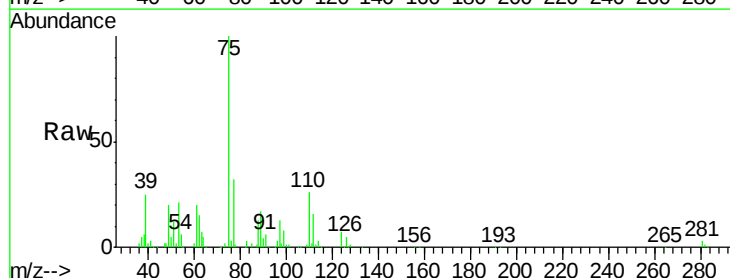
Acq: 28 Mar 2019 14:01

Tgt Ion: 75 Resp: 322062

Ion	Ratio	Lower	Upper
75	100		
77	31.6	16.2	48.5

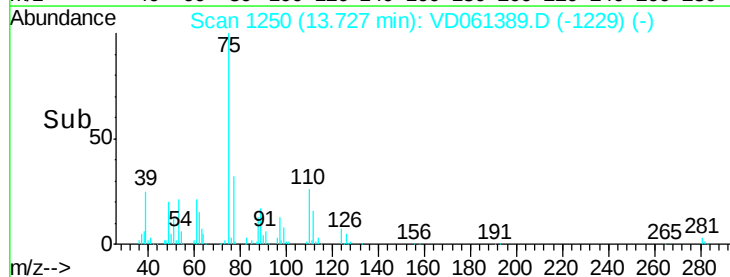
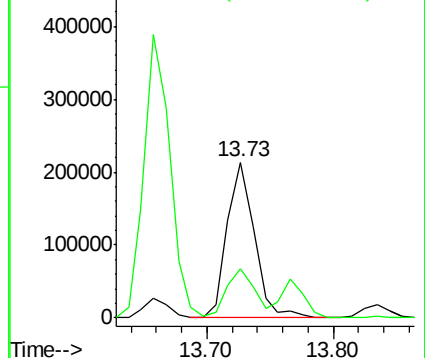
75 100

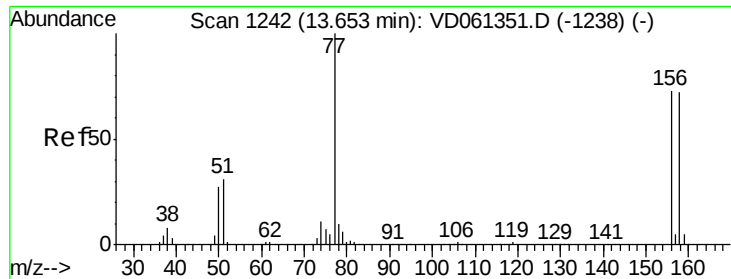
77 31.6 16.2 48.5



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 47.043 ug/l

RT: 13.67 min Scan# 1244

Delta R.T. 0.01 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

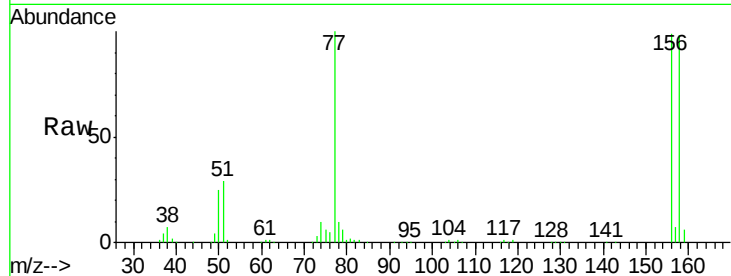
Tot Ion:156 Resp: 444479

Ion Ratio Lower Upper

156 100

77 100.7 68.5 205.6

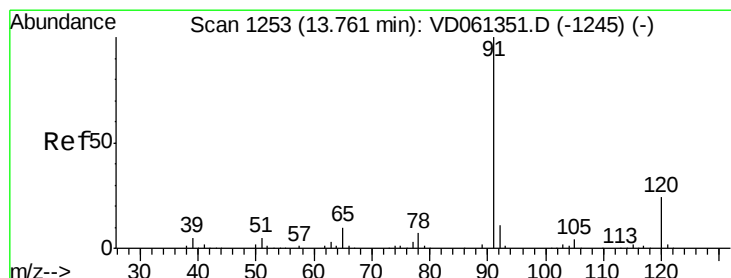
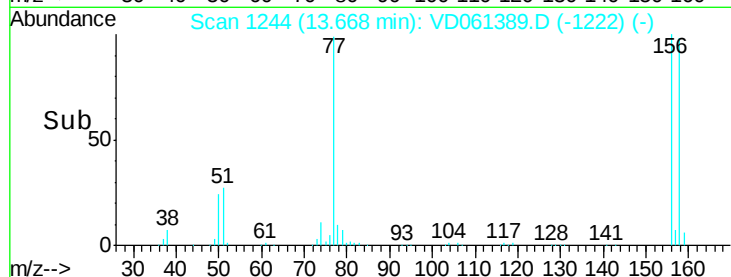
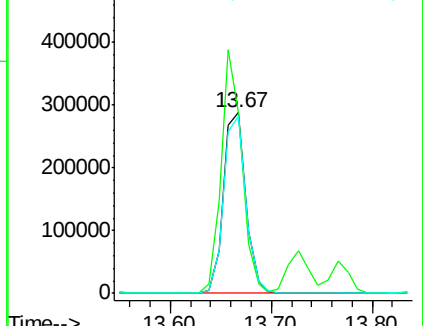
158 98.4 49.1 147.3



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): VDC

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 48.978 ug/l

RT: 13.77 min Scan# 1254

Delta R.T. 0.00 min

Lab File: VD061389.D

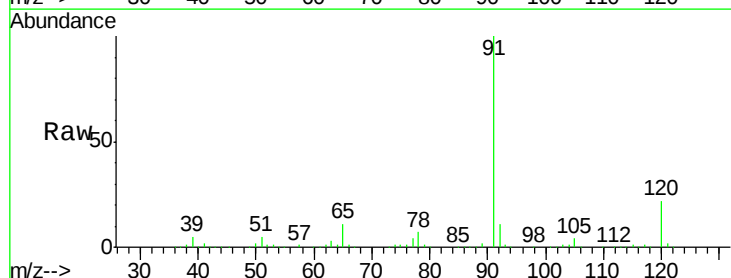
Acq: 28 Mar 2019 14:01

Tgt Ion: 91 Resp: 1910261

Ion Ratio Lower Upper

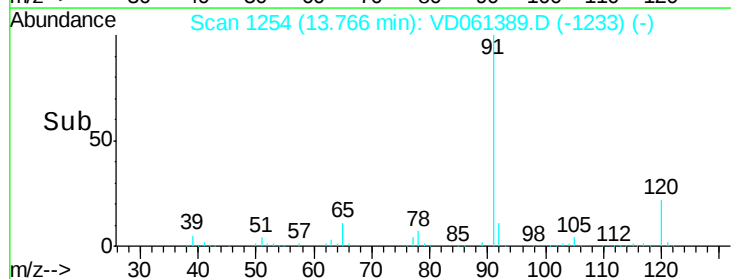
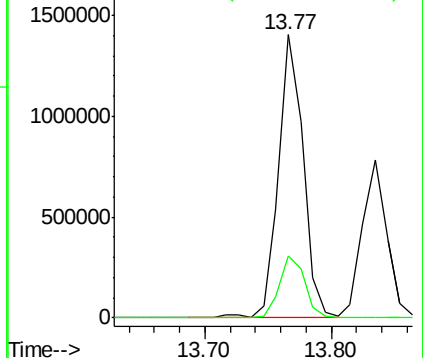
91 100

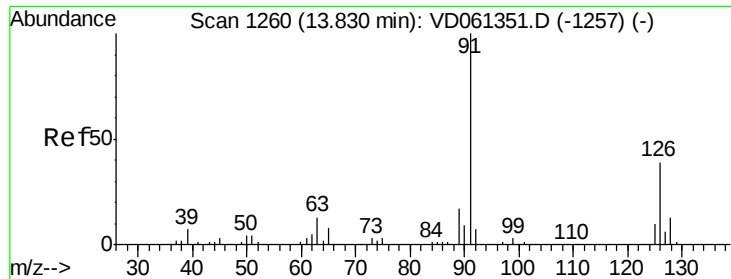
120 21.9 11.8 35.3



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 49.488 ug/l

RT: 13.83 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

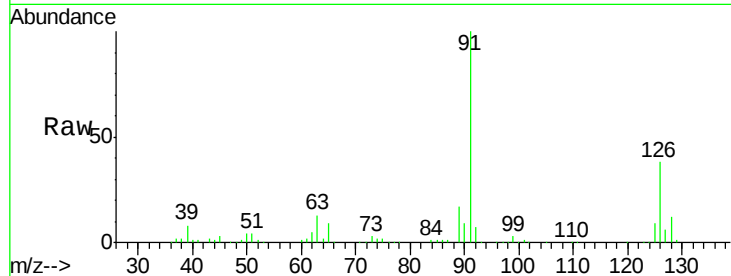
VSTDCCC050

Tot Ion: 91 Resp: 1048024

Ion Ratio Lower Upper

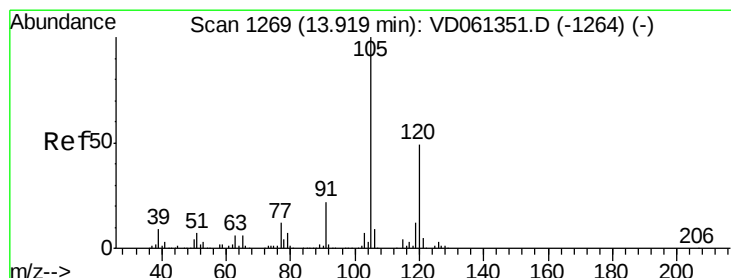
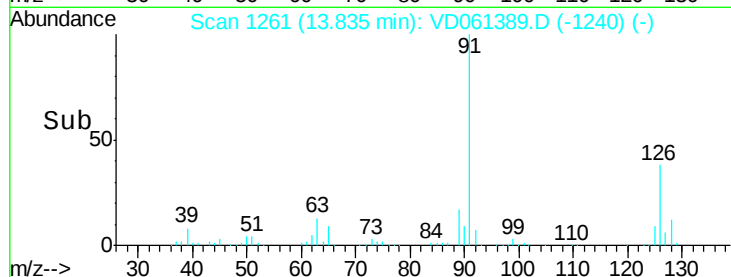
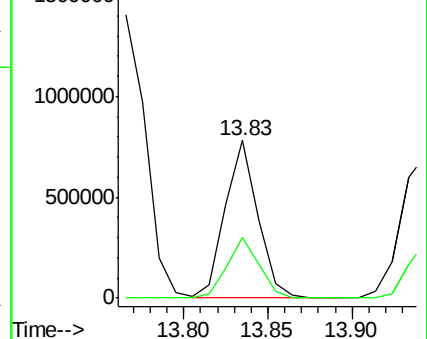
91 100

126 38.4 19.4 58.2



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 52.148 ug/l

RT: 13.92 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VD061389.D

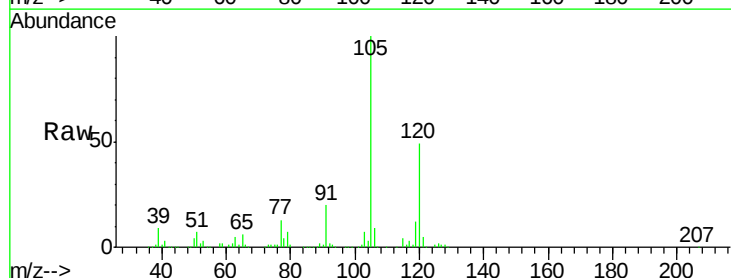
Acq: 28 Mar 2019 14:01

Tgt Ion:105 Resp: 1289533

Ion Ratio Lower Upper

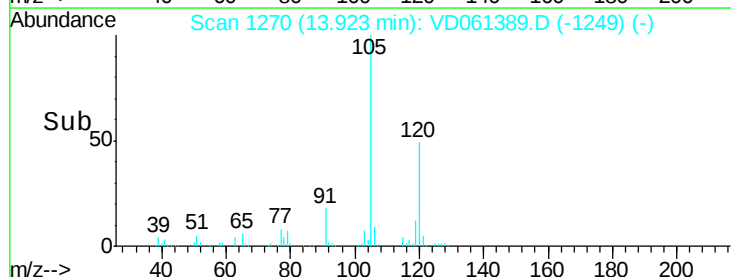
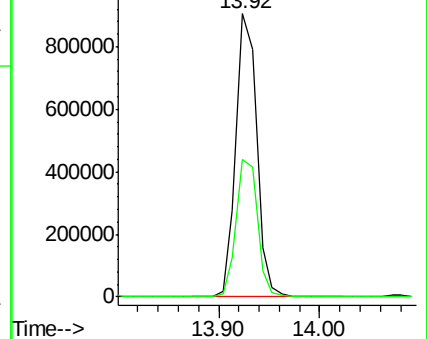
105 100

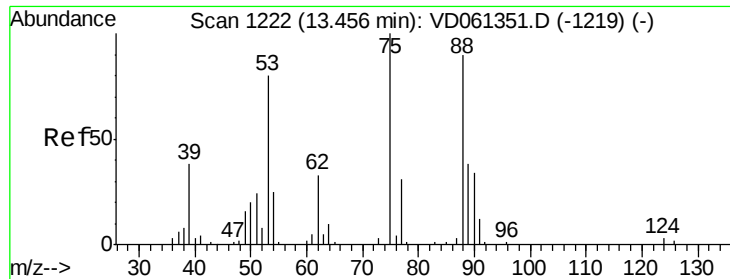
120 48.8 24.6 73.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

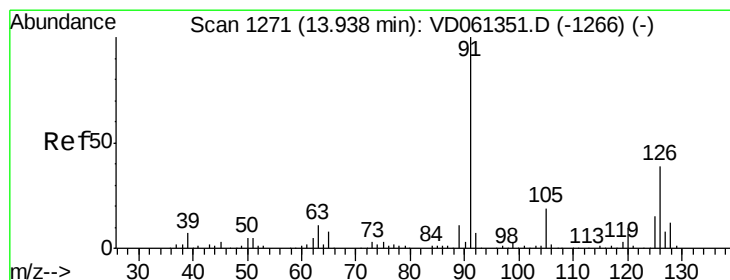
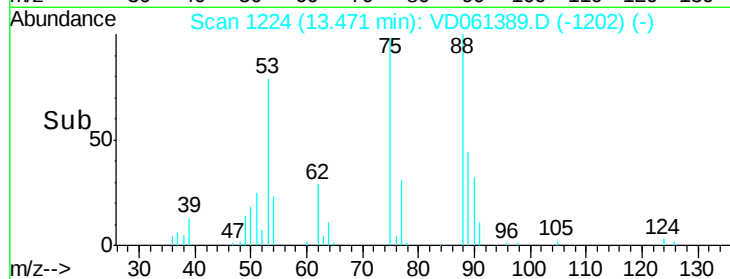
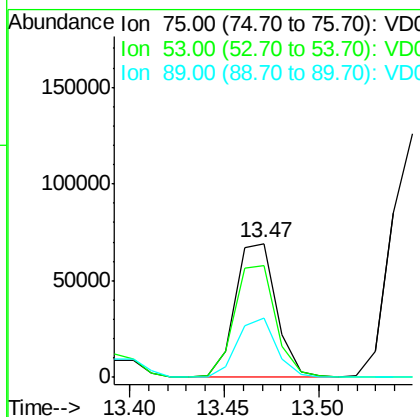
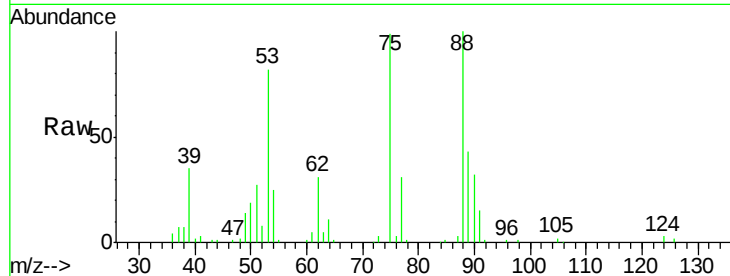




#81
trans-1,4-Dichloro-2-butene
Concen: 51.858 ug/l
RT: 13.47 min Scan# 1224
Delta R.T. 0.01 min
Lab File: VD061389.D
Acq: 28 Mar 2019 14:01

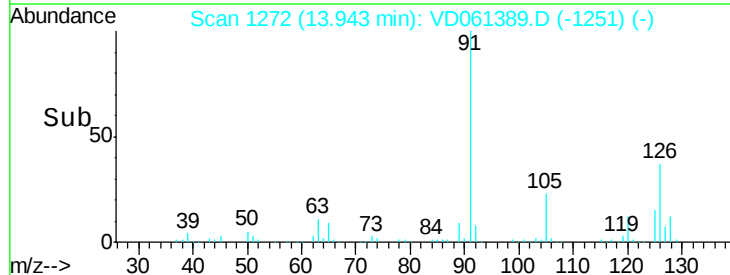
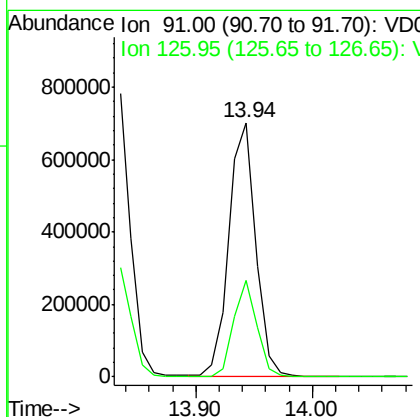
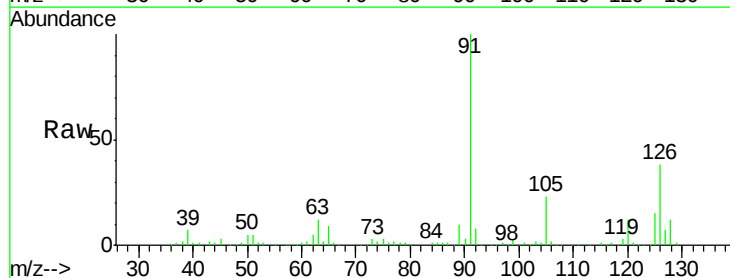
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

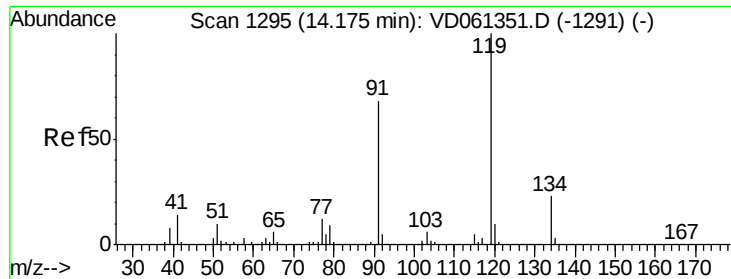
Tot Ion: 75 Resp: 104591
Ion Ratio Lower Upper
75 100
53 83.0 63.8 95.8
89 44.1 30.5 45.7



#82
4-Chlorotoluene
Concen: 48.438 ug/l
RT: 13.94 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VD061389.D
Acq: 28 Mar 2019 14:01

Tgt Ion: 91 Resp: 1115374
Ion Ratio Lower Upper
91 100
126 37.8 19.6 58.8

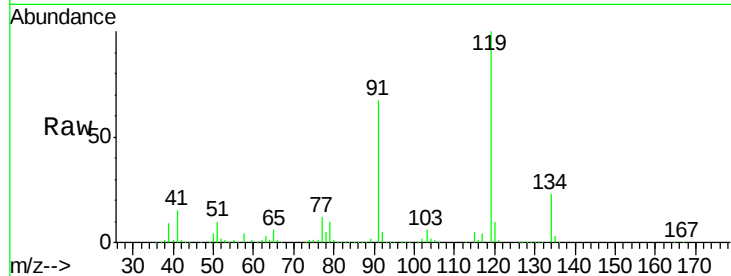




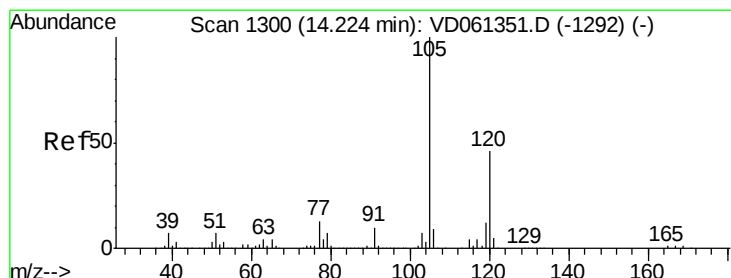
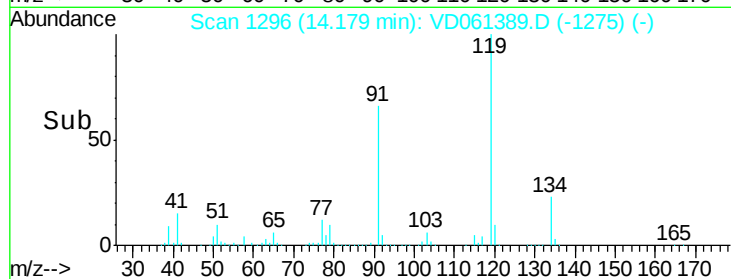
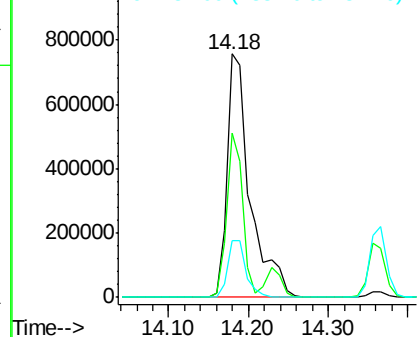
#83
tert-Butylbenzene
Concen: 49.788 ug/l
RT: 14.18 min Scan# 1296
Delta R.T. 0.00 min
Lab File: VD061389.D
Acq: 28 Mar 2019 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:119 Resp: 1538643
Ion Ratio Lower Upper
119 100
91 67.3 34.1 102.3
134 23.2 11.6 34.8

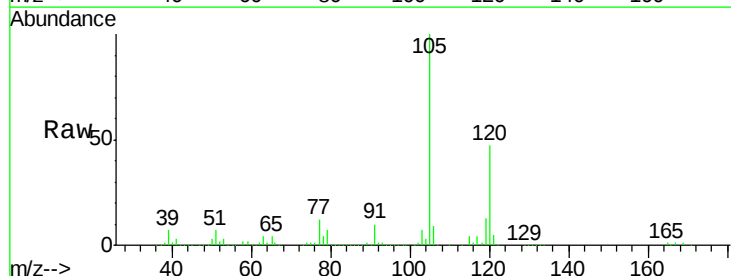


Abundance Ion 119.05 (118.75 to 119.75): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

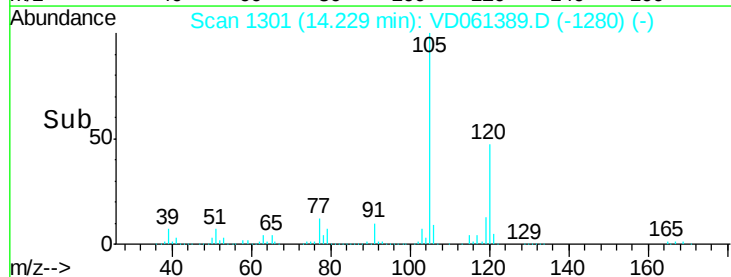
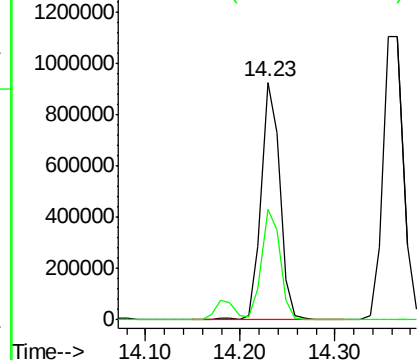


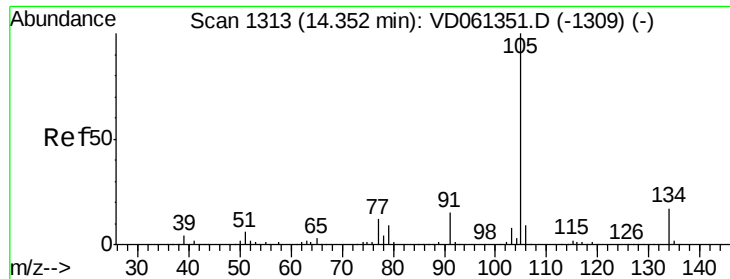
#84
1,2,4-Trimethylbenzene
Concen: 47.585 ug/l
RT: 14.23 min Scan# 1301
Delta R.T. 0.00 min
Lab File: VD061389.D
Acq: 28 Mar 2019 14:01

Tgt Ion:105 Resp: 1273922
Ion Ratio Lower Upper
105 100
120 46.6 22.8 68.4



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

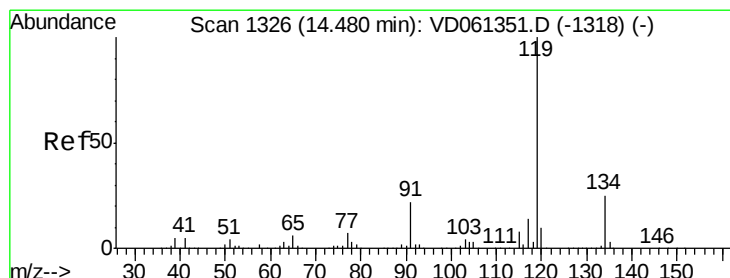
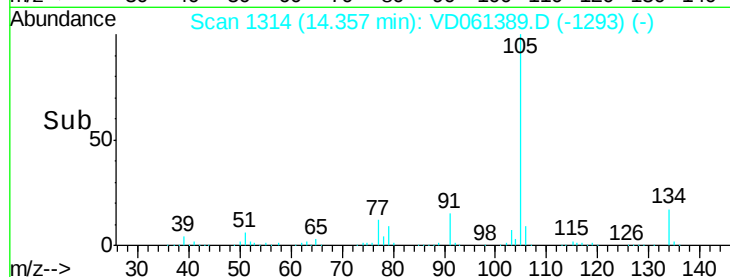
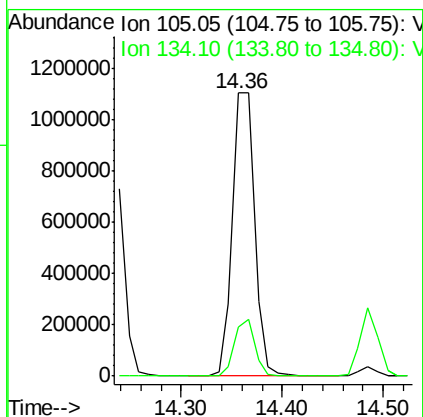
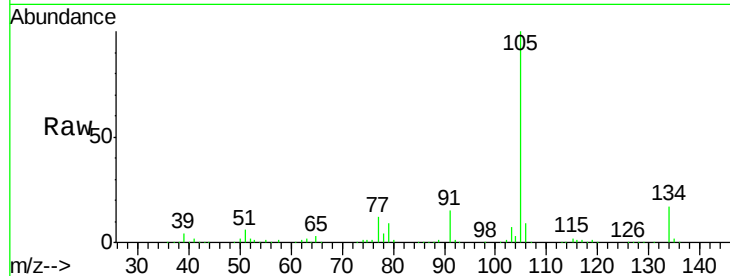




#85
 sec-Butylbenzene
 Concen: 51.247 ug/l
 RT: 14.36 min Scan# 1314
 Delta R.T. 0.00 min
 Lab File: VD061389.D
 Acq: 28 Mar 2019 14:01

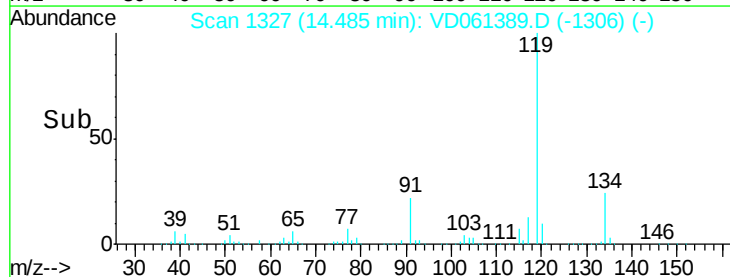
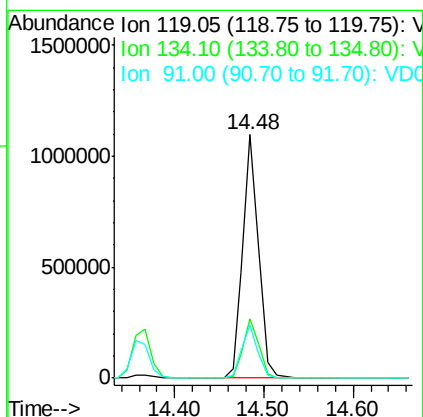
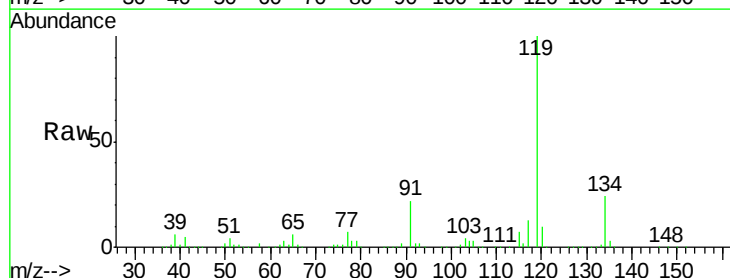
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

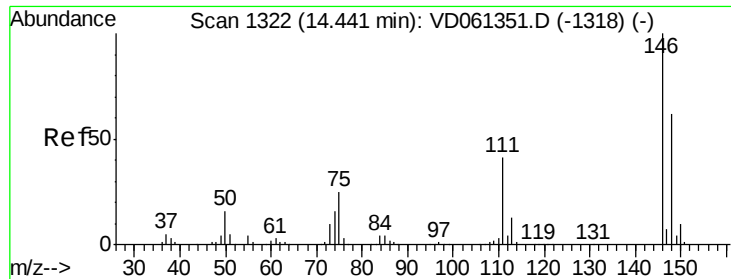
Tot Ion:105 Resp: 1682451
 Ion Ratio Lower Upper
 105 100
 134 17.3 8.7 26.1



#86
 p-Isopropyltoluene
 Concen: 48.515 ug/l
 RT: 14.48 min Scan# 1327
 Delta R.T. 0.00 min
 Lab File: VD061389.D
 Acq: 28 Mar 2019 14:01

Tgt Ion:119 Resp: 1346838
 Ion Ratio Lower Upper
 119 100
 134 24.4 12.3 36.8
 91 21.8 11.1 33.1

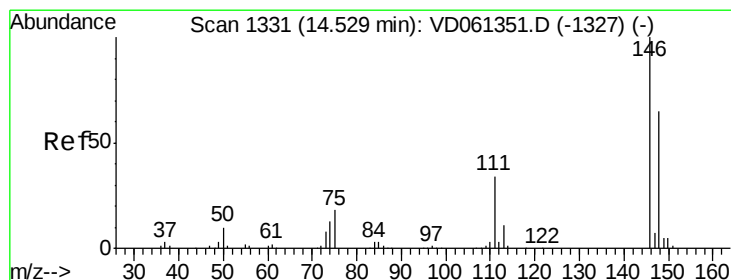
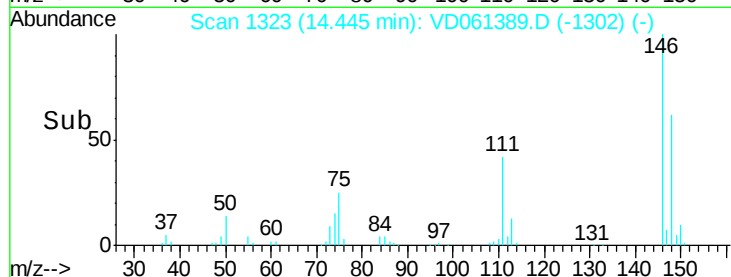
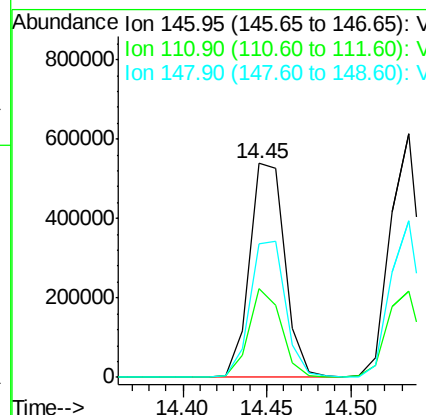
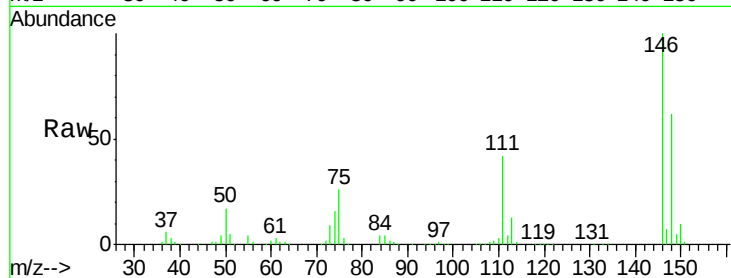




#87
 1,3-Dichlorobenzene
 Concen: 49.199 ug/l
 RT: 14.45 min Scan# 1323
 Delta R.T. 0.00 min
 Lab File: VD061389.D
 Acq: 28 Mar 2019 14:01

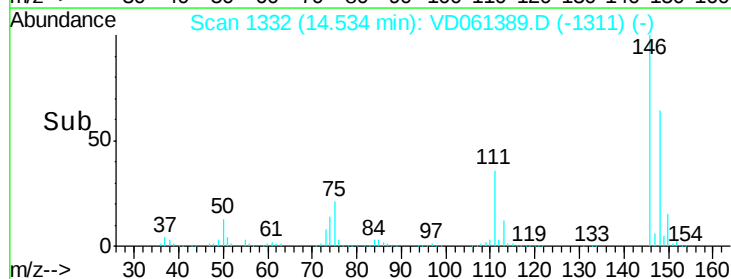
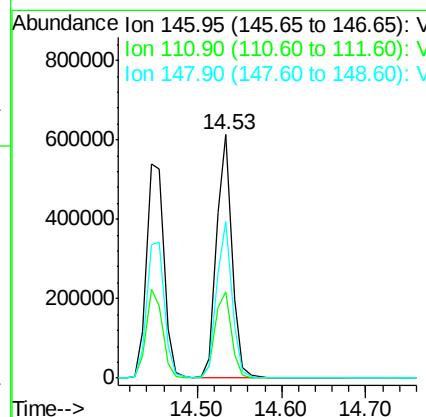
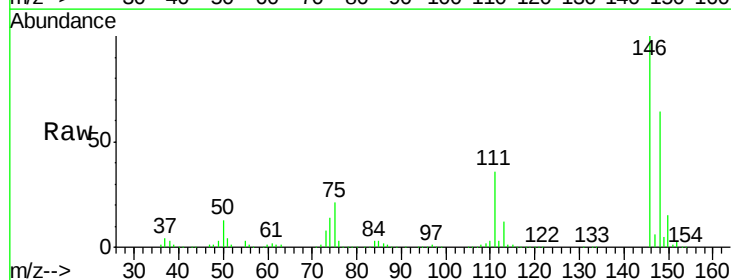
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

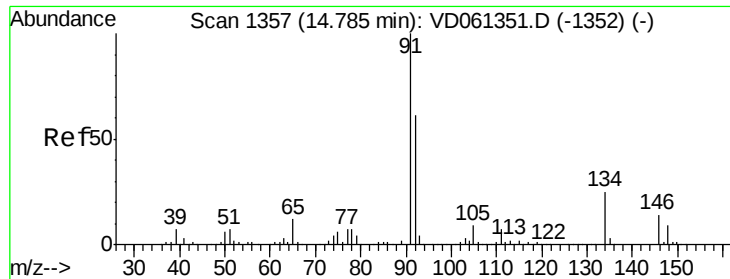
Tot Ion:146 Resp: 787187
 Ion Ratio Lower Upper
 146 100
 111 41.6 20.6 61.9
 148 62.3 31.1 93.3



#88
 1,4-Dichlorobenzene
 Concen: 49.944 ug/l
 RT: 14.53 min Scan# 1332
 Delta R.T. 0.00 min
 Lab File: VD061389.D
 Acq: 28 Mar 2019 14:01

Tgt Ion:146 Resp: 779287
 Ion Ratio Lower Upper
 146 100
 111 35.6 16.8 50.4
 148 64.3 32.6 98.0





#89

n-Butylbenzene

Concen: 46.902 ug/l

RT: 14.79 min Scan# 1358

Delta R.T. 0.00 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

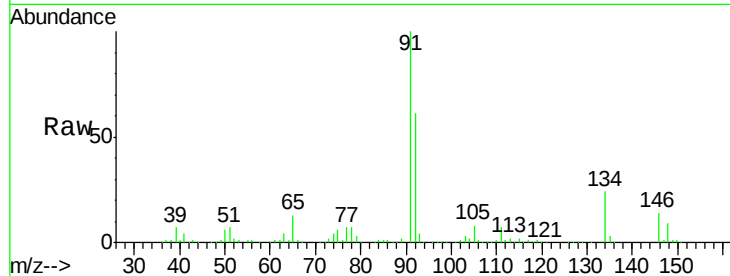
Tot Ion: 91 Resp: 1195081

Ion Ratio Lower Upper

91 100

92 60.8 30.3 91.0

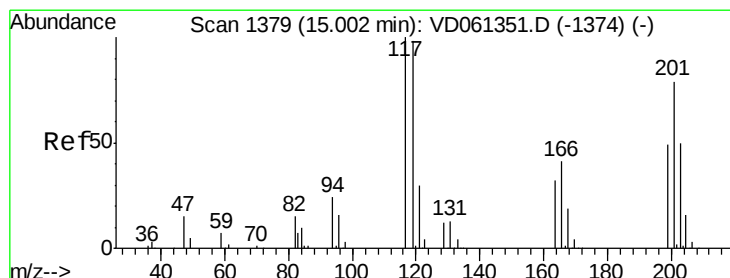
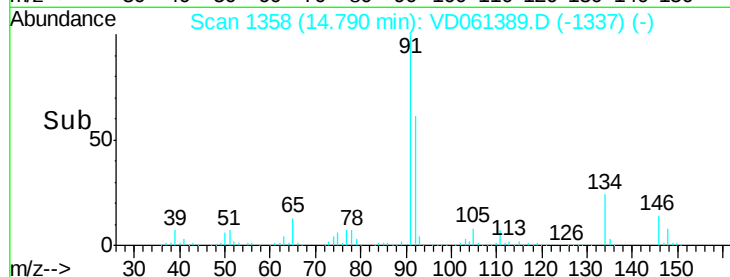
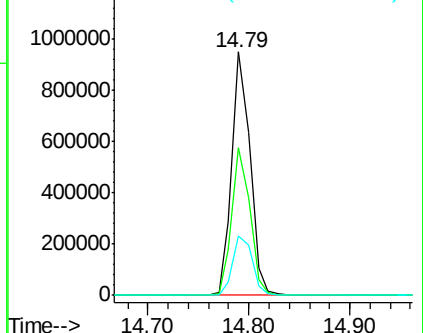
134 24.4 12.4 37.0



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): VDC



#90

Hexachloroethane

Concen: 50.977 ug/l

RT: 15.00 min Scan# 1379

Delta R.T. -0.01 min

Lab File: VD061389.D

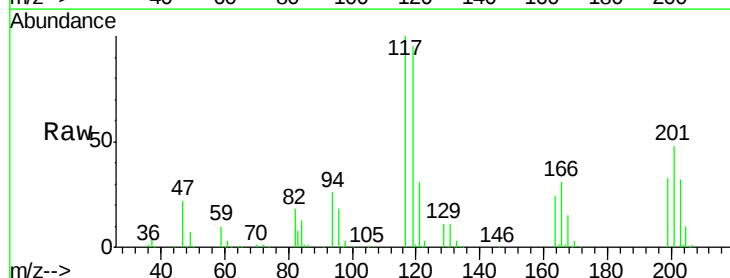
Acq: 28 Mar 2019 14:01

Tgt Ion: 117 Resp: 399804

Ion Ratio Lower Upper

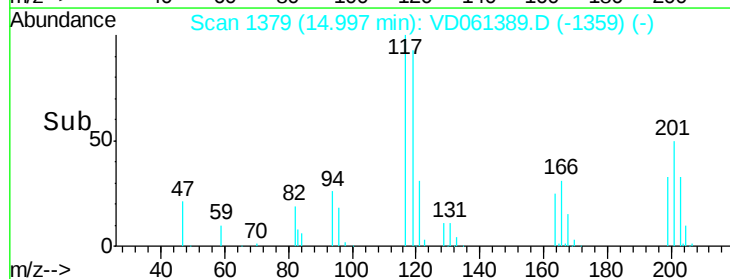
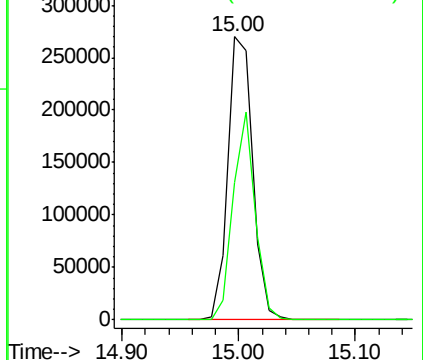
117 100

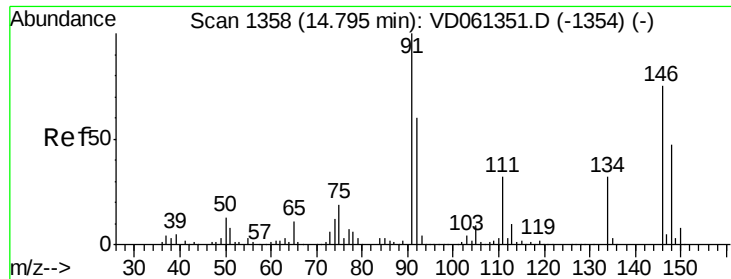
201 48.4 39.6 119.0



Abundance Ion 116.85 (116.55 to 117.55): VDC

Ion 200.75 (200.45 to 201.45): VDC





#91

1,2-Dichlorobenzene

Concen: 46.574 ug/l

RT: 14.80 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

Instrument :

MSVOA_D

ClientSampleID :

VSTDCCC050

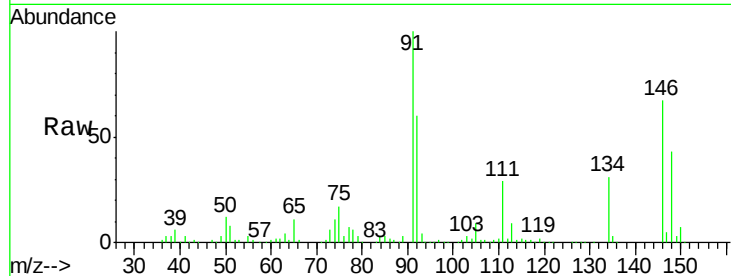
Tot Ion:146 Resp: 611237

Ion Ratio Lower Upper

146 100

111 43.5 21.2 63.6

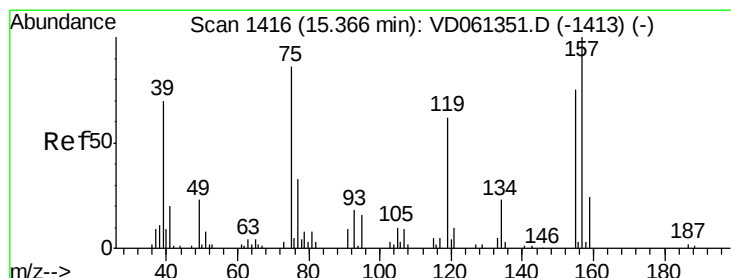
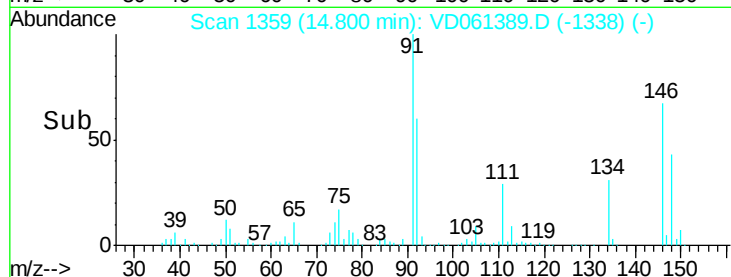
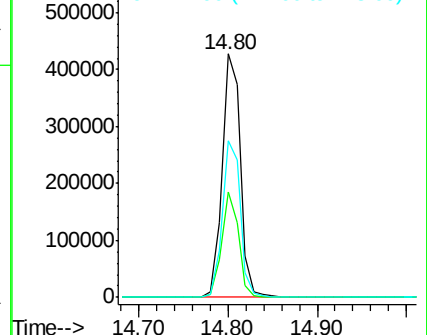
148 64.5 31.6 95.0



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 51.141 ug/l

RT: 15.37 min Scan# 1417

Delta R.T. 0.00 min

Lab File: VD061389.D

Acq: 28 Mar 2019 14:01

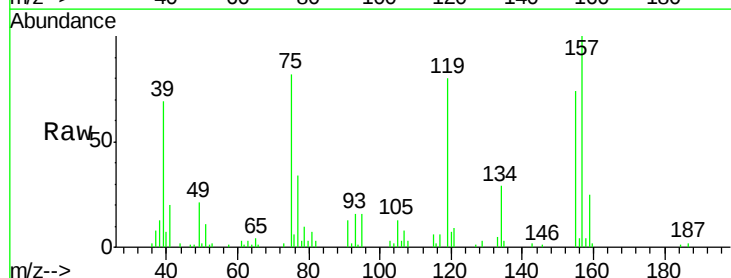
Tgt Ion: 75 Resp: 40326

Ion Ratio Lower Upper

75 100

155 91.2 43.6 130.9

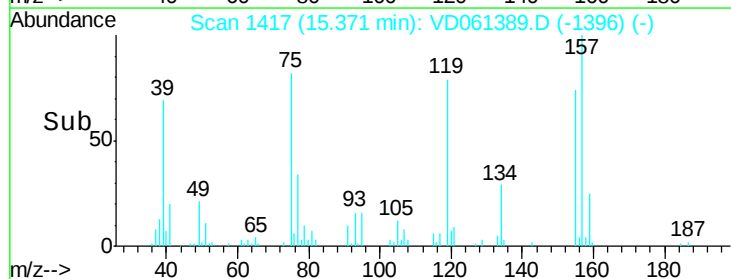
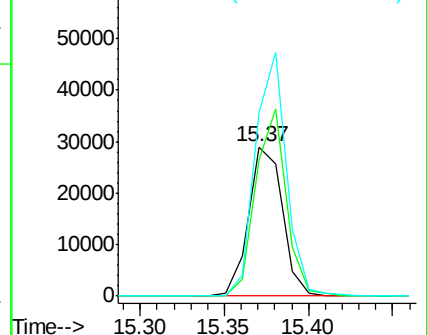
157 122.6 58.5 175.3

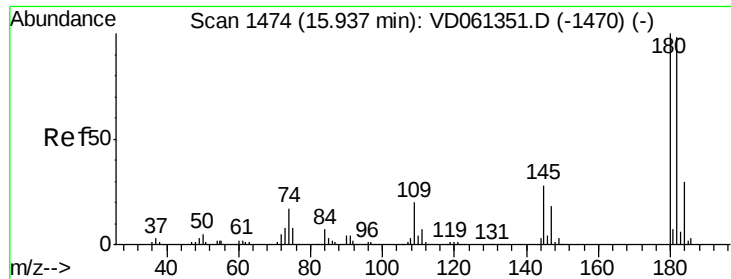


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

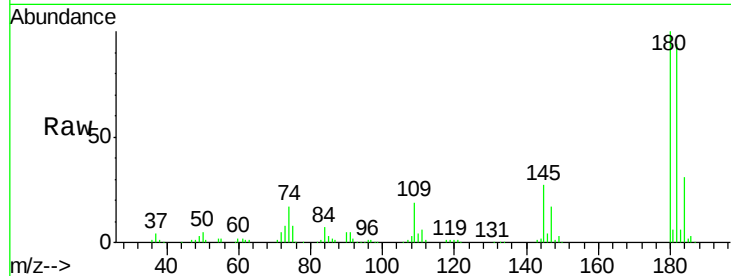




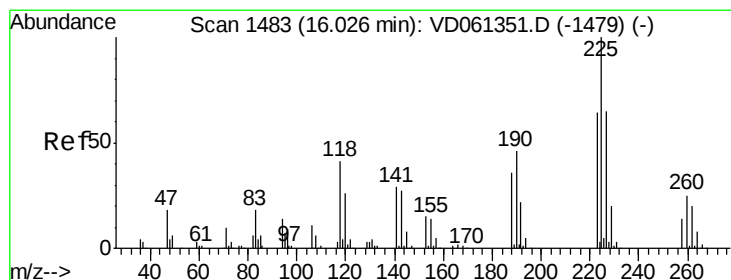
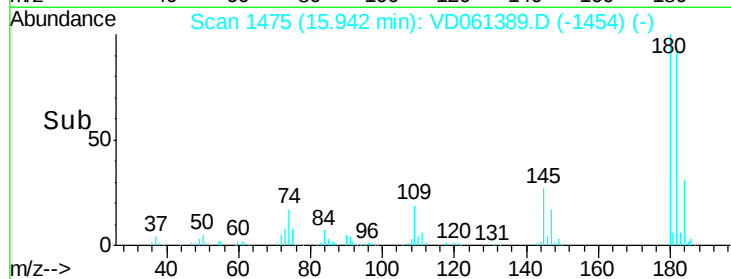
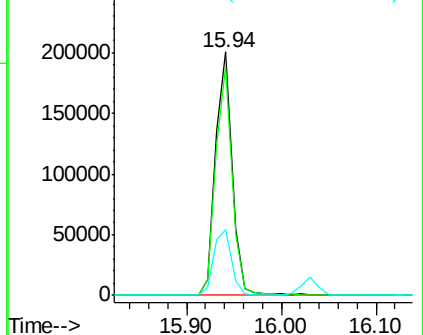
#93
 1,2,4-Trichlorobenzene
 Concen: 41.470 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. 0.00 min
 Lab File: VD061389.D
 Acq: 28 Mar 2019 14:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:180 Resp: 247925
 Ion Ratio Lower Upper
 180 100
 182 93.6 48.9 146.8
 145 27.1 14.1 42.3

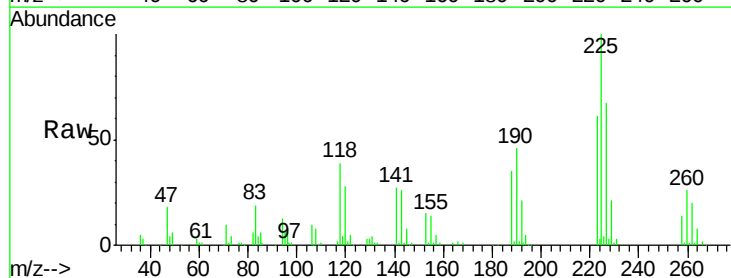


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

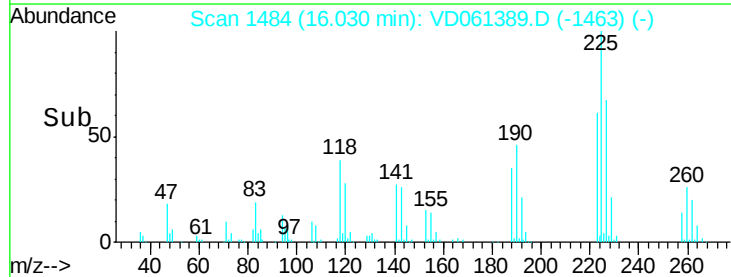
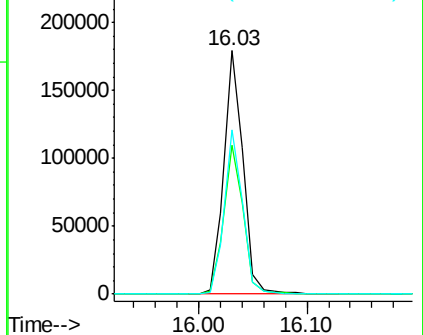


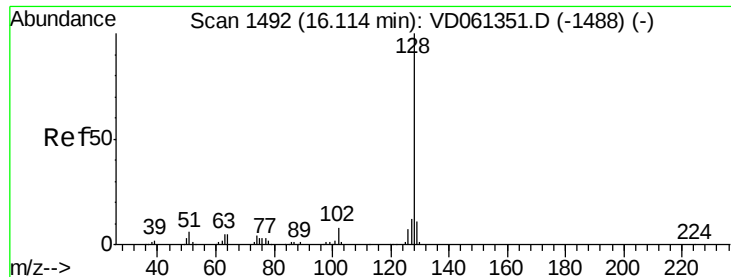
#94
 Hexachlorobutadiene
 Concen: 47.292 ug/l
 RT: 16.03 min Scan# 1484
 Delta R.T. 0.00 min
 Lab File: VD061389.D
 Acq: 28 Mar 2019 14:01

Tgt Ion:225 Resp: 220934
 Ion Ratio Lower Upper
 225 100
 223 61.3 32.0 96.0
 227 67.4 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

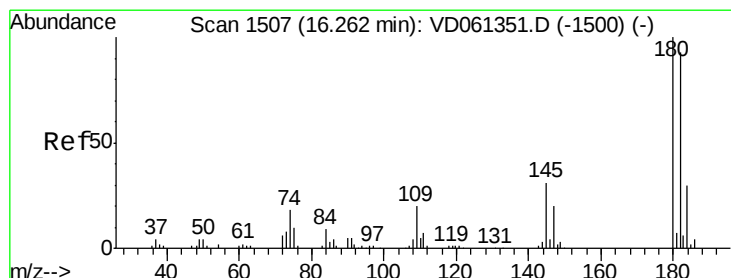
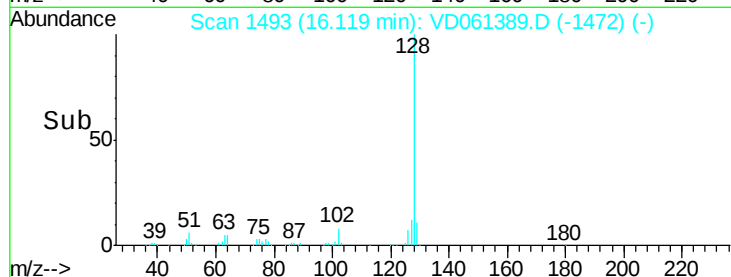
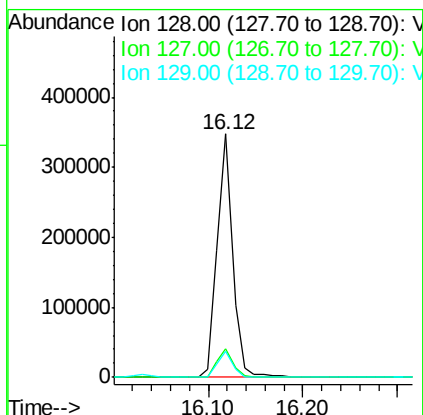
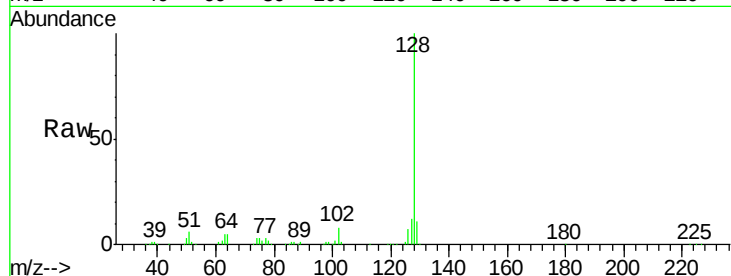




#95
Naphthalene
Concen: 43.575 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. 0.00 min
Lab File: VD061389.D
Acq: 28 Mar 2019 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:128 Resp: 397080
Ion Ratio Lower Upper
128 100
127 11.9 9.9 14.9
129 10.9 8.9 13.3



#96
1,2,3-Trichlorobenzene
Concen: 40.028 ug/l
RT: 16.27 min Scan# 1508
Delta R.T. 0.00 min
Lab File: VD061389.D
Acq: 28 Mar 2019 14:01

Tgt Ion:180 Resp: 105303
Ion Ratio Lower Upper
180 100
182 95.9 46.4 139.1
145 29.4 15.3 45.9

