

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121918\
 Data File : VD060631.D
 Acq On : 19 Dec 2018 10:30
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 20 00:19:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 06 01:49:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	1582919	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.44	114	2168034	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.28	117	1794676	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.37	152	948541	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.78	65	534864	47.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.34%	
35) Dibromofluoromethane	6.32	113	758430	47.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.26%	
50) Toluene-d8	9.45	98	2193397	47.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.20%	
62) 4-Bromofluorobenzene	12.42	95	793405	48.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.24%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.61	85	688720	45.107	ug/l	99
3) Chloromethane	1.78	50	707753	43.518	ug/l	100
4) Vinyl Chloride	1.87	62	608477	46.878	ug/l	98
5) Bromomethane	2.18	94	167440	51.564	ug/l	97
6) Chloroethane	2.28	64	205595	48.628	ug/l	95
7) Trichlorofluoromethane	2.53	101	766256	51.126	ug/l	100
8) Diethyl Ether	2.85	74	128376	49.590	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	3.10	101	511267	52.575	ug/l	98
10) Methyl Iodide	3.26	142	594311	52.284	ug/l	100
11) Tert butyl alcohol	3.98	59	94286	206.848	ug/l	98
12) 1,1-Dichloroethene	3.09	96	413561	52.270	ug/l	90
13) Acrolein	3.00	56	119810	240.549	ug/l	92
14) Allyl chloride	3.55	41	741333	49.385	ug/l	99
15) Acrylonitrile	4.10	53	619158	239.224	ug/l	97
16) Acetone	3.17	43	506347	281.551	ug/l	98
17) Carbon Disulfide	3.33	76	1216975	47.353	ug/l	99
18) Methyl Acetate	3.58	43	198898	46.534	ug/l	98
19) Methyl tert-butyl Ether	4.14	73	1046920	47.715	ug/l	100
20) Methylene Chloride	3.73	84	831060	50.360	ug/l	97
21) trans-1,2-Dichloroethene	4.12	96	835218	48.530	ug/l	97
22) Diisopropyl ether	4.86	45	2628324	48.766	ug/l	100
23) Vinyl Acetate	4.82	43	6473700	242.430	ug/l	100
24) 1,1-Dichloroethane	4.77	63	1439189	51.401	ug/l	99
25) 2-Butanone	5.62	43	945356	267.184	ug/l	99
26) 2,2-Dichloropropane	5.59	77	1155801	53.435	ug/l	98
27) cis-1,2-Dichloroethene	5.60	96	883305	50.478	ug/l	96
28) Bromochloromethane	5.93	49	609184	49.114	ug/l	94
29) Tetrahydrofuran	5.96	42	474941	237.041	ug/l	100
30) Chloroform	6.10	83	1436047	50.909	ug/l	99
31) Cyclohexane	6.37	56	1237051	51.805	ug/l	95
32) 1,1,1-Trichloroethane	6.29	97	1158640	49.964	ug/l	98
36) 1,1-Dichloropropene	6.53	75	1109391	52.349	ug/l	99
37) Ethyl Acetate	5.70	43	448262	48.773	ug/l	98
38) Carbon Tetrachloride	6.50	117	985610	51.805	ug/l	99

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 06 01:49:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.03	83	1210327	50.099	ug/l	99
40) Benzene	6.79	78	2921000	53.932	ug/l	100
41) Methacrylonitrile	5.95	41	505986	102.129	ug/l #	71
42) 1,2-Dichloroethane	6.89	62	718166	52.152	ug/l	98
43) Isopropyl Acetate	8.35	43	552181	48.671	ug/l #	96
44) Trichloroethene	7.74	130	843099	52.088	ug/l	98
45) 1,2-Dichloropropane	8.10	63	712577	53.196	ug/l	99
46) Dibromomethane	8.21	93	393269	50.814	ug/l	95
47) Bromodichloromethane	8.49	83	998960	54.399	ug/l	98
48) Methyl methacrylate	8.24	41	338371	50.406	ug/l	99
49) 1,4-Dioxane	8.22	88	62008	1019.178	ug/l	99
51) 4-Methyl-2-Pentanone	9.33	43	1813163	256.922	ug/l	99
52) Toluene	9.55	92	1740334	51.411	ug/l	100
53) t-1,3-Dichloropropene	9.91	75	819150	54.288	ug/l	100
54) cis-1,3-Dichloropropene	9.10	75	1077053	54.328	ug/l	98
55) 1,1,2-Trichloroethane	10.18	97	474721	50.357	ug/l	97
56) Ethyl methacrylate	10.02	69	453701	53.178	ug/l	98
57) 1,3-Dichloropropane	10.38	76	773144	53.053	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.92	63	1333436	261.208	ug/l	100
59) 2-Hexanone	10.48	43	1384911	280.753	ug/l	97
60) Dibromochloromethane	10.63	129	635223	53.895	ug/l	96
61) 1,2-Dibromoethane	10.75	107	492512	51.265	ug/l	99
64) Tetrachloroethene	10.25	164	802054	50.470	ug/l	99
65) Chlorobenzene	11.31	112	1854300	48.839	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.42	131	651360	53.227	ug/l	96
67) Ethyl Benzene	11.42	91	3276350	50.591	ug/l	97
68) m/p-Xylenes	11.57	106	2370534	98.942	ug/l	99
69) o-Xylene	11.93	106	1163868	50.973	ug/l	98
70) Styrene	11.95	104	1868403	50.980	ug/l	97
71) Bromoform	12.11	173	416805	51.051	ug/l	99
73) Isopropylbenzene	12.27	105	3129475	46.624	ug/l	97
74) N-amyl acetate	12.13	43	744951	45.922	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.56	83	490599	45.655	ug/l	99
76) 1,2,3-Trichloropropane	12.59	75	501810	46.691	ug/l	98
77) Bromobenzene	12.54	156	853983	48.402	ug/l	86
78) n-propylbenzene	12.63	91	3984620	46.962	ug/l	96
79) 2-Chlorotoluene	12.70	91	2174993	47.240	ug/l	96
80) 1,3,5-Trimethylbenzene	12.79	105	2364381	46.099	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.33	75	148560	49.561	ug/l	96
82) 4-Chlorotoluene	12.81	91	2389663	46.211	ug/l	96
83) tert-Butylbenzene	13.04	119	2754503	47.898	ug/l	94
84) 1,2,4-Trimethylbenzene	13.09	105	2470230	46.514	ug/l	98
85) sec-Butylbenzene	13.22	105	3373685	47.069	ug/l	95
86) p-Isopropyltoluene	13.34	119	2724284	47.948	ug/l	98
87) 1,3-Dichlorobenzene	13.31	146	1543150	48.306	ug/l	98
88) 1,4-Dichlorobenzene	13.39	146	1510644	48.204	ug/l	98
89) n-Butylbenzene	13.64	91	2794619	49.568	ug/l	98
90) Hexachloroethane	13.85	117	702999	49.348	ug/l	85
91) 1,2-Dichlorobenzene	13.65	146	1222801	46.839	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.22	75	61018	46.863	ug/l	68

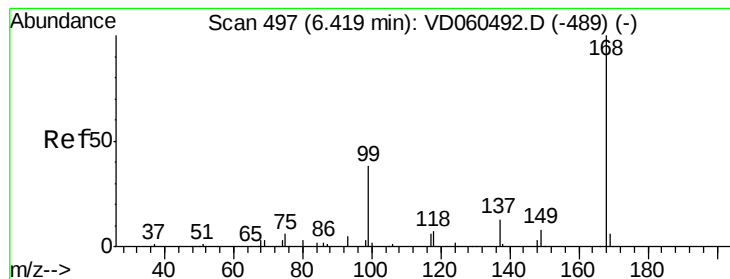
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.78	180	981482	48.093	ug/l	97
94) Hexachlorobutadiene	14.87	225	711257	47.237	ug/l	98
95) Naphthalene	14.96	128	1145502	47.182	ug/l	100
96) 1,2,3-Trichlorobenzene	15.11	180	778003	47.844	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.41 min Scan# 496

Delta R.T. -0.01 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

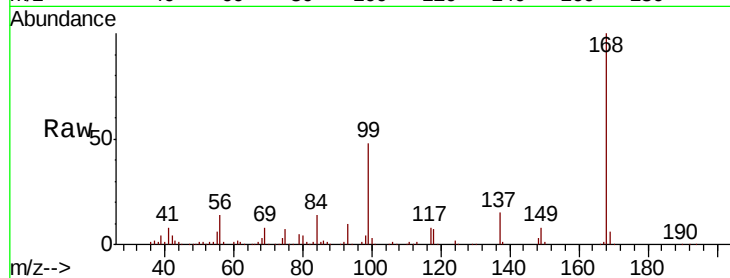
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 1582919

Ion Ratio Lower Upper

168 100

99 48.2 35.6 53.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.41

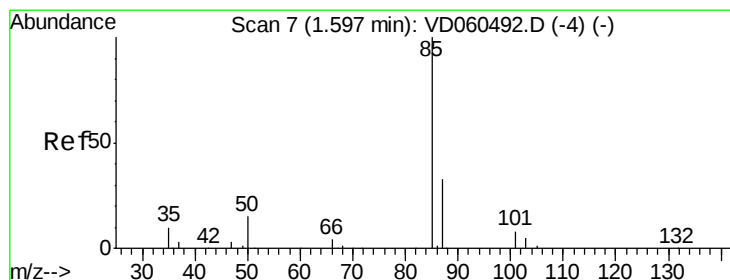
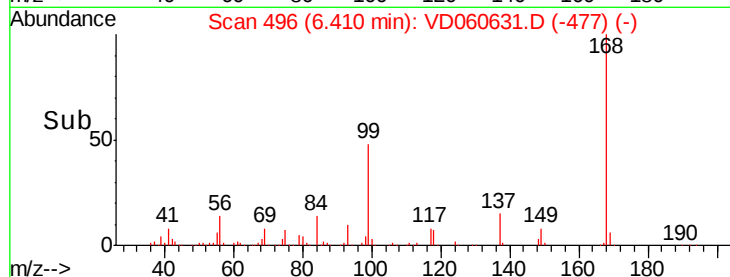
600000

400000

200000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 45.107 ug/l

RT: 1.61 min Scan# 8

Delta R.T. 0.01 min

Lab File: VD060631.D

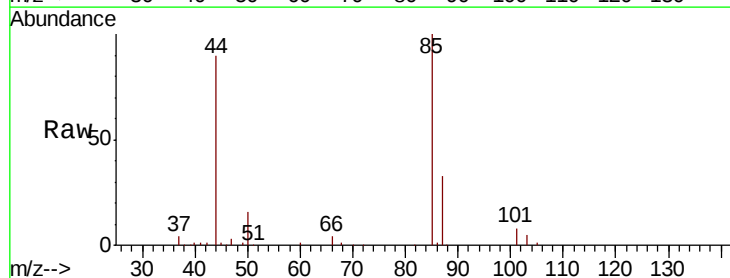
Acq: 19 Dec 2018 10:30

Tgt Ion: 85 Resp: 688720

Ion Ratio Lower Upper

85 100

87 32.6 16.7 50.0



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.61

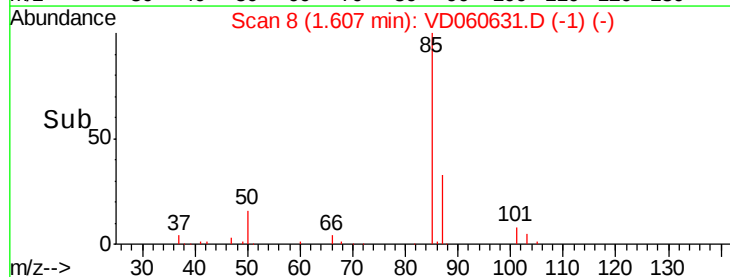
300000

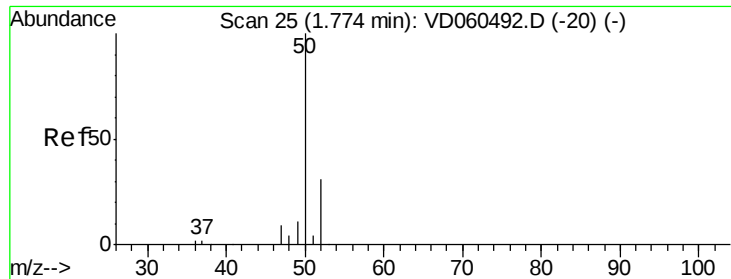
200000

100000

0

Time-->





#3

Chloromethane

Concen: 43.518 ug/l

RT: 1.78 min Scan# 26

Delta R.T. 0.01 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

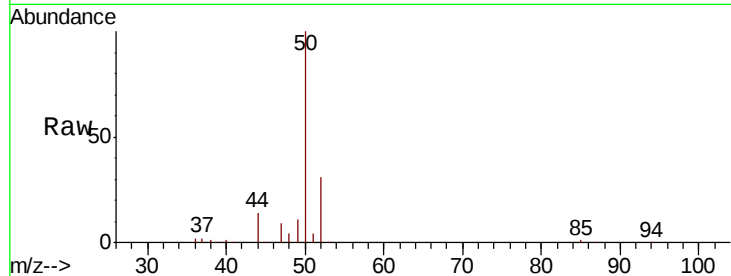
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 50 Resp: 707753

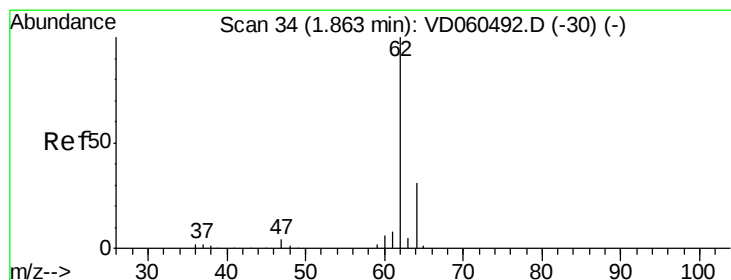
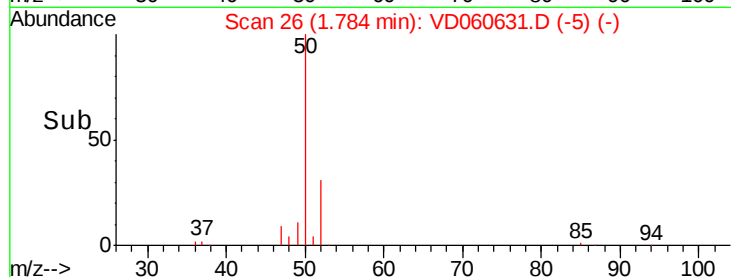
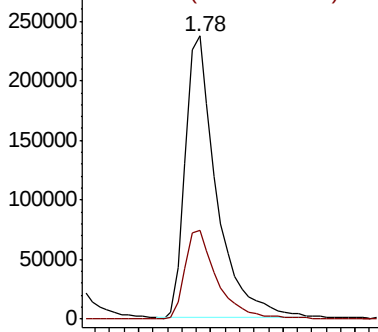
Ion Ratio Lower Upper

50 100

52 31.4 25.0 37.4



Abundance Ion 49.90 (49.60 to 50.60): VDC
Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 46.878 ug/l

RT: 1.87 min Scan# 35

Delta R.T. 0.01 min

Lab File: VD060631.D

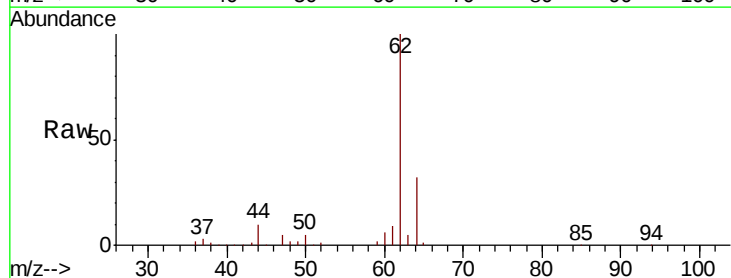
Acq: 19 Dec 2018 10:30

Tgt Ion: 62 Resp: 608477

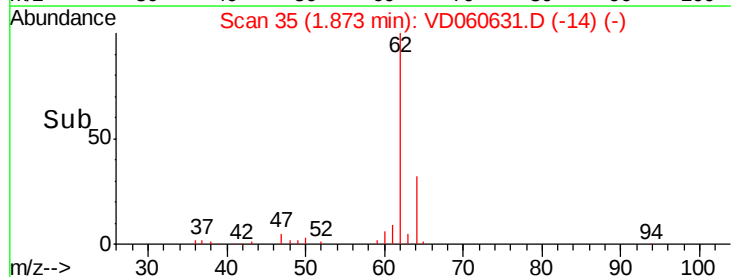
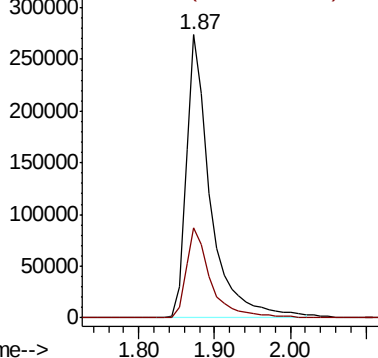
Ion Ratio Lower Upper

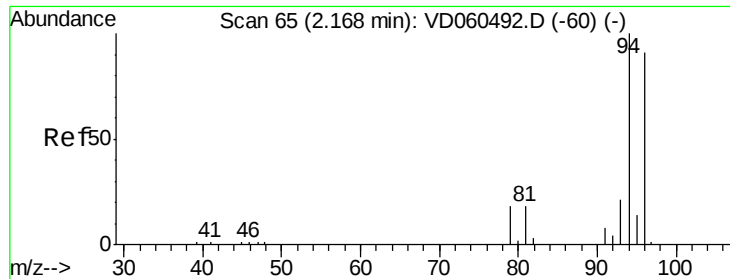
62 100

64 32.0 24.6 37.0



Abundance Ion 61.95 (61.65 to 62.65): VDC
Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 51.564 ug/l

RT: 2.18 min Scan# 66

Delta R.T. 0.01 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

Instrument :

MSVOA_D

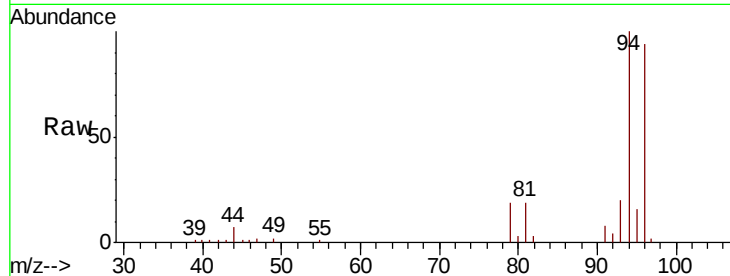
ClientSampleId :

Tot Ion: 94 Resp: 167440

Ion Ratio Lower Upper

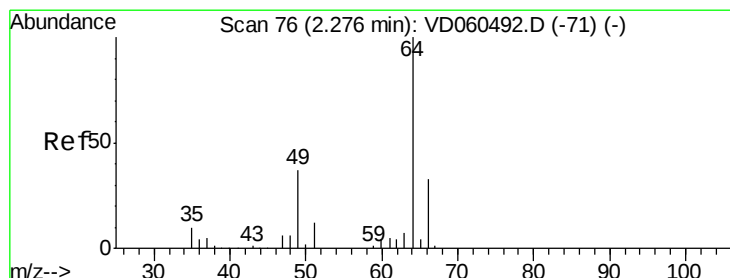
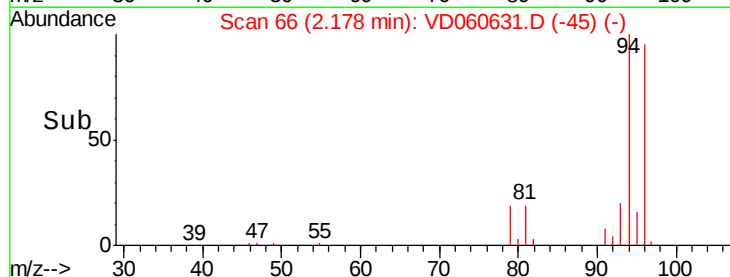
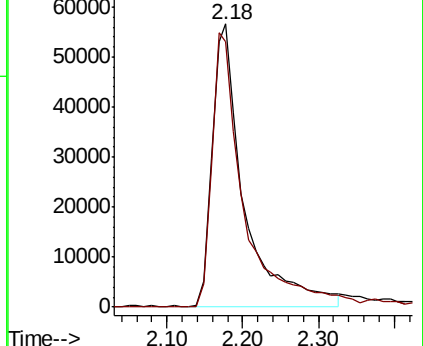
94 100

96 93.8 72.6 108.8



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 48.628 ug/l

RT: 2.28 min Scan# 76

Delta R.T. 0.00 min

Lab File: VD060631.D

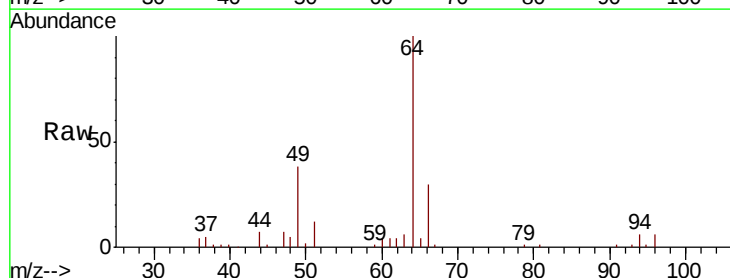
Acq: 19 Dec 2018 10:30

Tgt Ion: 64 Resp: 205595

Ion Ratio Lower Upper

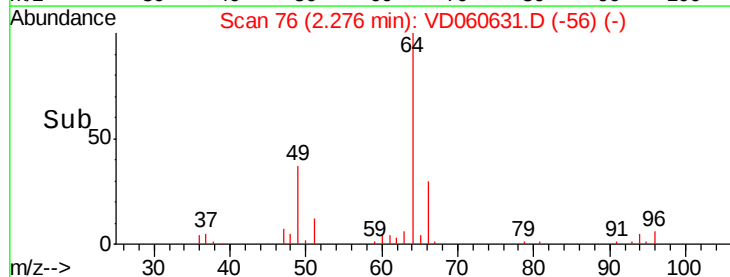
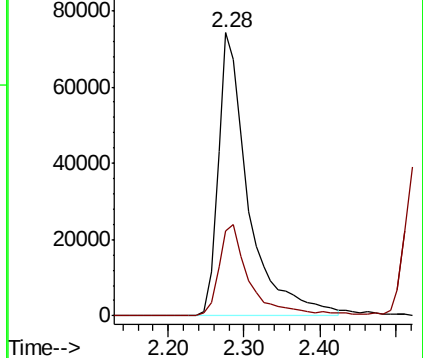
64 100

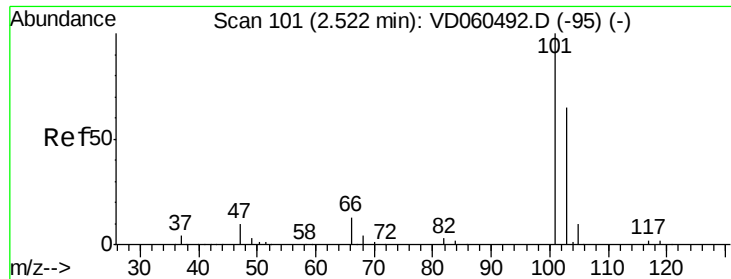
66 30.1 26.4 39.6



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



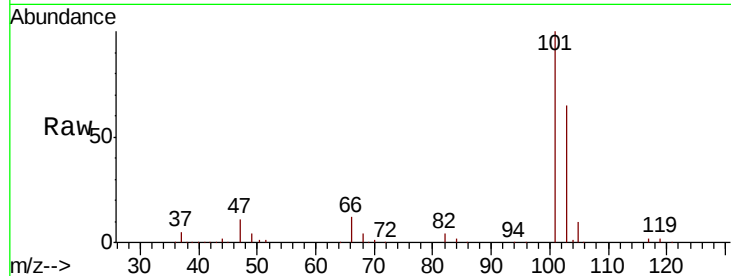


#7

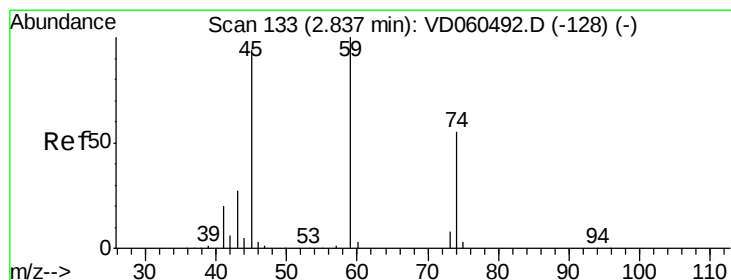
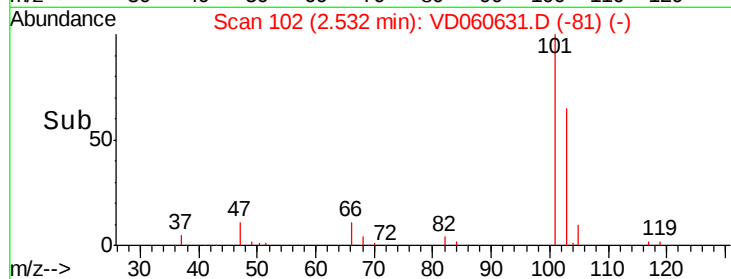
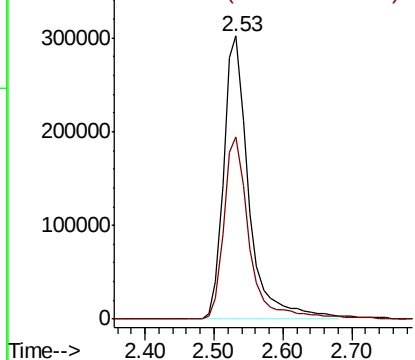
Trichlorofluoromethane
 Concen: 51.126 ug/l
 RT: 2.53 min Scan# 102
 Delta R.T. 0.01 min
 Lab File: VD060631.D
 Acq: 19 Dec 2018 10:30

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:101 Resp: 766256
 Ion Ratio Lower Upper
 101 100
 103 64.6 51.8 77.8



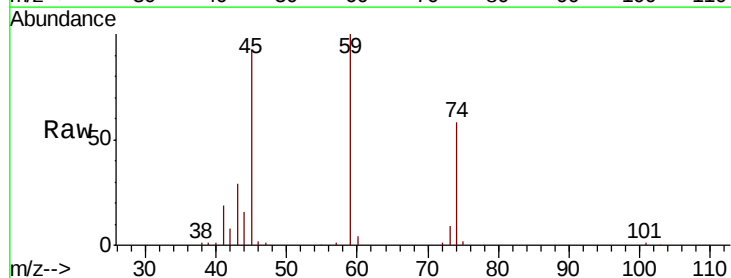
Abundance Ion 100.85 (100.55 to 101.55): V
 Ion 102.85 (102.55 to 103.55): V



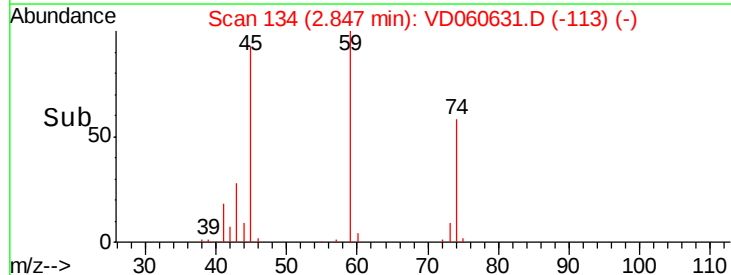
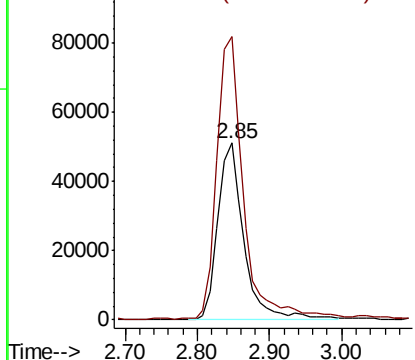
#8

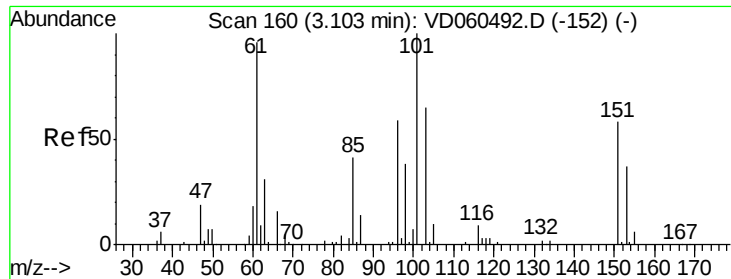
Diethyl Ether
 Concen: 49.590 ug/l
 RT: 2.85 min Scan# 134
 Delta R.T. 0.01 min
 Lab File: VD060631.D
 Acq: 19 Dec 2018 10:30

Tgt Ion: 74 Resp: 128376
 Ion Ratio Lower Upper
 74 100
 45 160.0 86.0 258.0



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: 52.575 ug/l

RT: 3.10 min Scan# 160

Delta R.T. 0.00 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

Instrument :

MSVOA_D

ClientSampled :

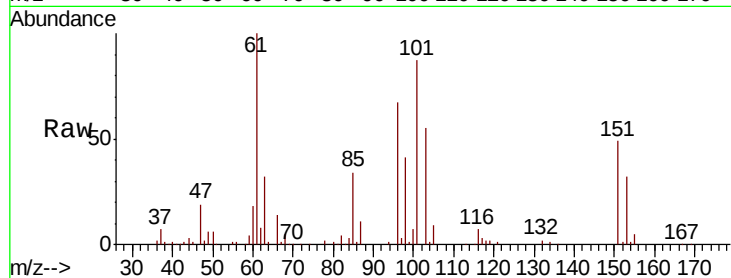
Tot Ion:101 Resp: 511267

Ion Ratio Lower Upper

101 100

85 39.4 32.7 49.1

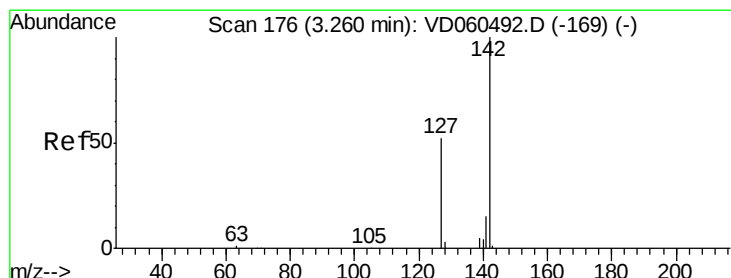
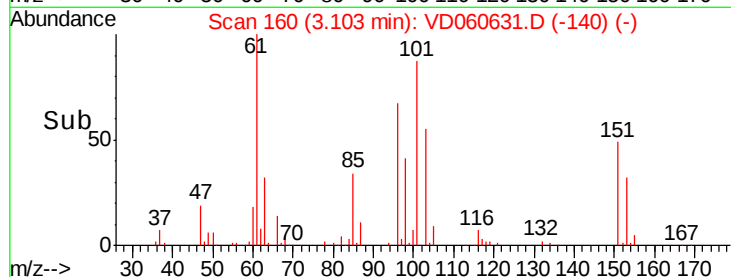
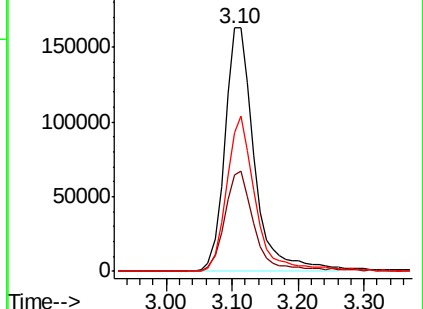
151 56.7 46.6 69.8



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 52.284 ug/l

RT: 3.26 min Scan# 176

Delta R.T. 0.00 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

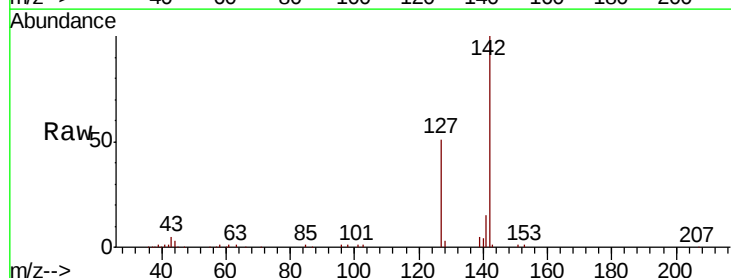
Tgt Ion:142 Resp: 594311

Ion Ratio Lower Upper

142 100

127 51.3 41.2 61.8

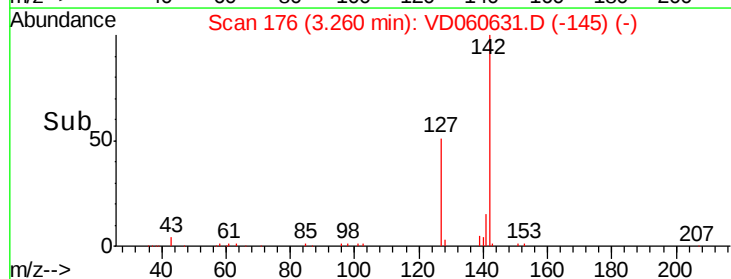
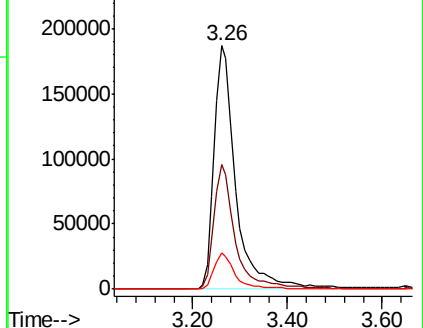
141 14.9 11.9 17.9

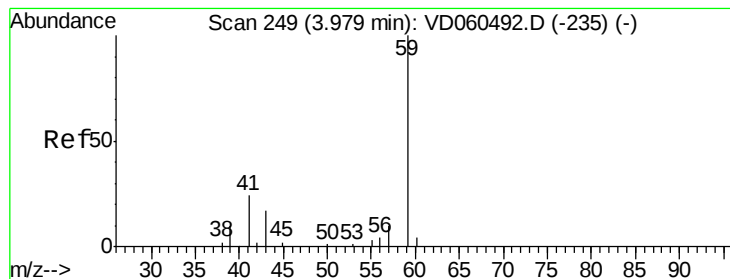


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



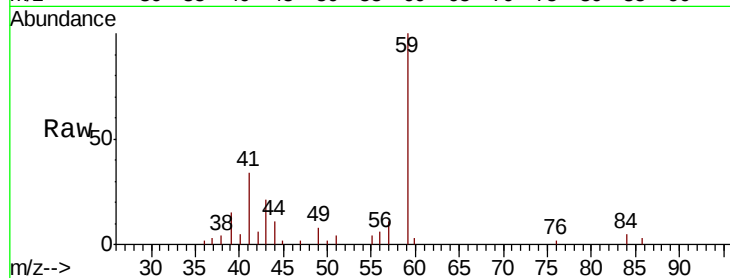


#11

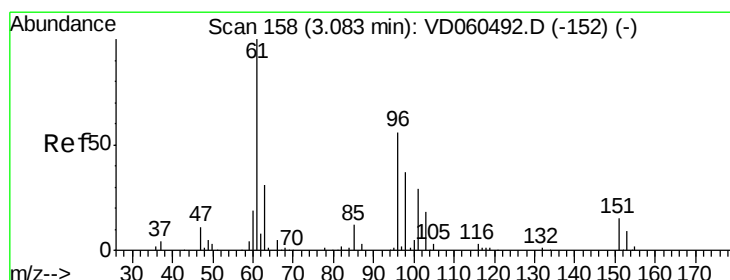
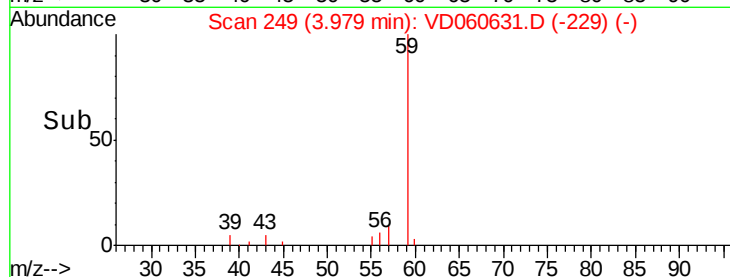
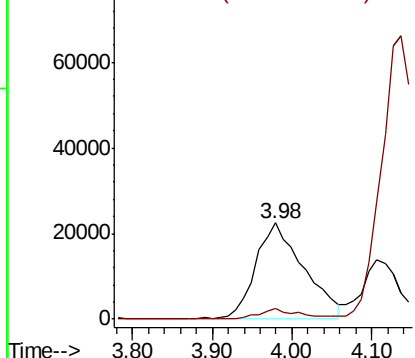
Tert butyl alcohol
 Concen: 206.848 ug/l
 RT: 3.98 min Scan# 249
 Delta R.T. 0.00 min
 Lab File: VD060631.D
 Acq: 19 Dec 2018 10:30

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 59 Resp: 94286
 Ion Ratio Lower Upper
 59 100
 57 10.7 8.1 12.1



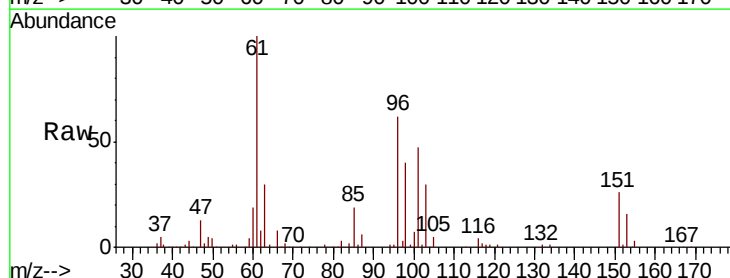
Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC



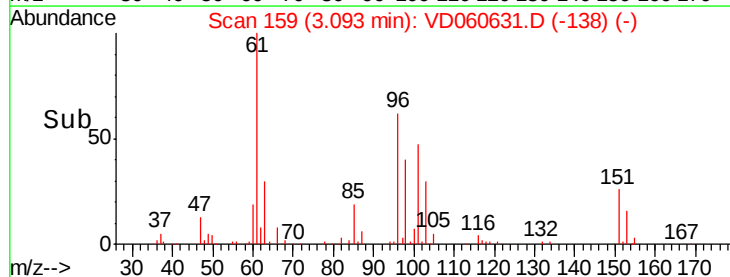
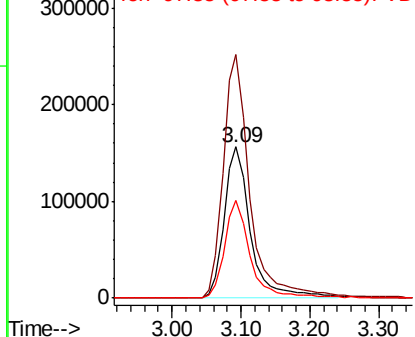
#12

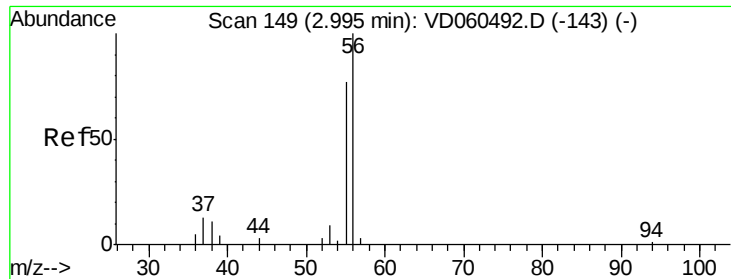
1,1-Dichloroethene
 Concen: 52.270 ug/l
 RT: 3.09 min Scan# 159
 Delta R.T. 0.01 min
 Lab File: VD060631.D
 Acq: 19 Dec 2018 10:30

Tgt Ion: 96 Resp: 413561
 Ion Ratio Lower Upper
 96 100
 61 160.8 143.0 214.4
 98 64.7 53.4 80.0



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

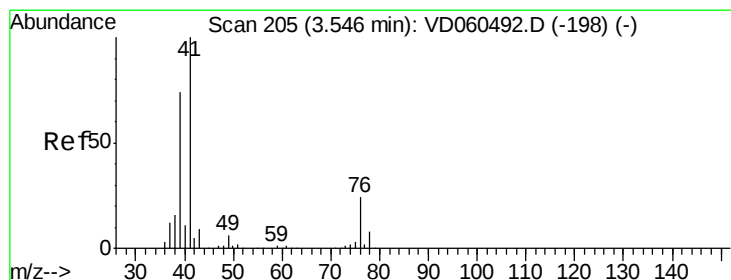
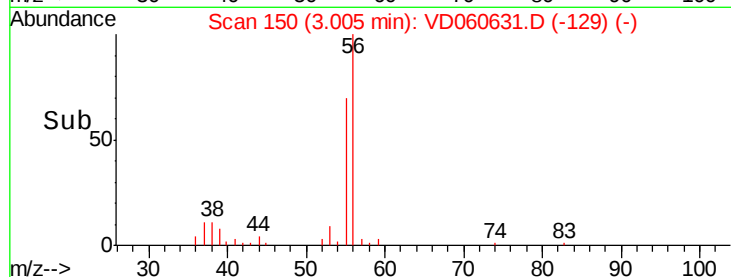
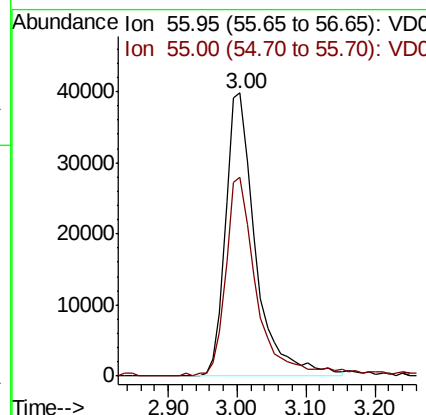
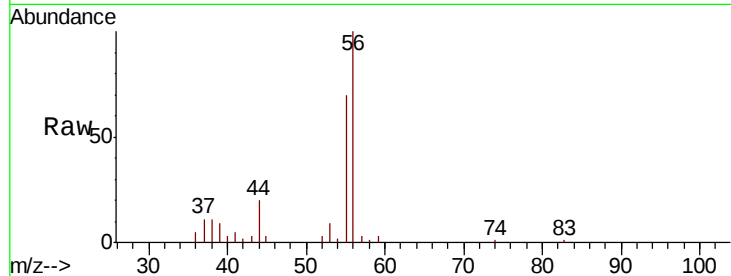




#13
Acrolein
Concen: 240.549 ug/l
RT: 3.00 min Scan# 150
Delta R.T. 0.01 min
Lab File: VD060631.D
Acq: 19 Dec 2018 10:30

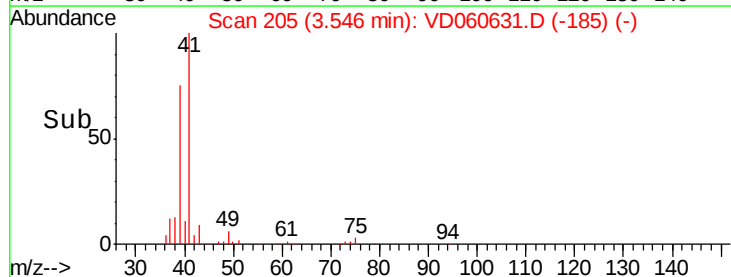
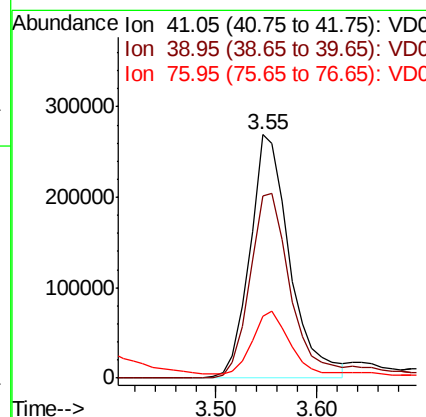
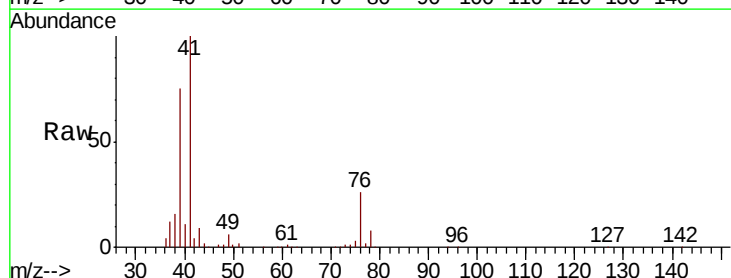
Instrument :
MSVOA_D
ClientSampled :

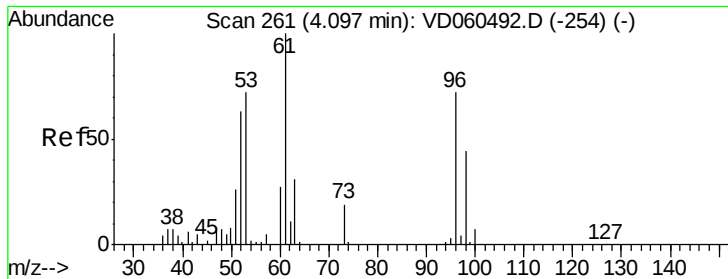
Tot Ion: 56 Resp: 119810
Ion Ratio Lower Upper
56 100
55 70.2 62.0 93.0



#14
Allyl chloride
Concen: 49.385 ug/l
RT: 3.55 min Scan# 205
Delta R.T. 0.00 min
Lab File: VD060631.D
Acq: 19 Dec 2018 10:30

Tgt Ion: 41 Resp: 741333
Ion Ratio Lower Upper
41 100
39 75.0 59.3 88.9
76 25.6 21.0 31.6





#15

Acrylonitrile

Concen: 239.224 ug/l

RT: 4.10 min Scan# 261

Delta R.T. 0.00 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

Instrument :
MSVOA_D
ClientSampled :

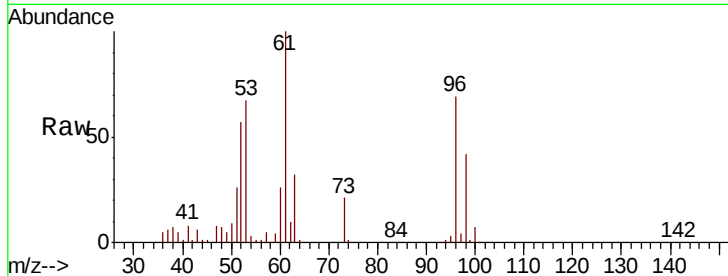
Tot Ion: 53 Resp: 619158

Ion Ratio Lower Upper

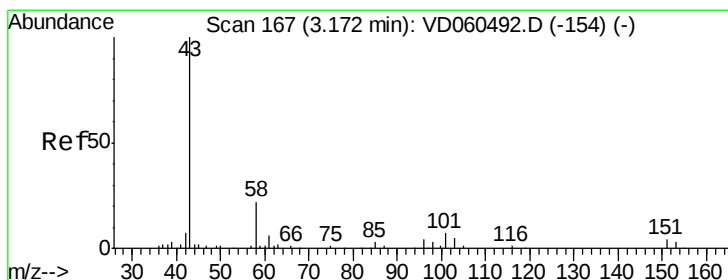
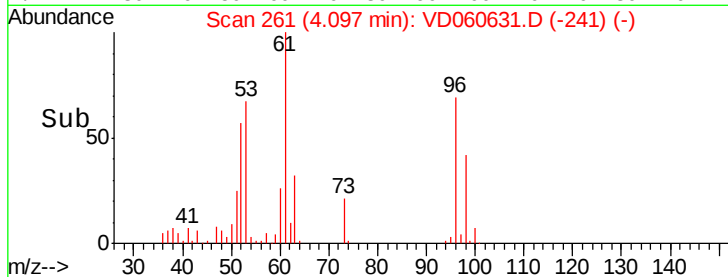
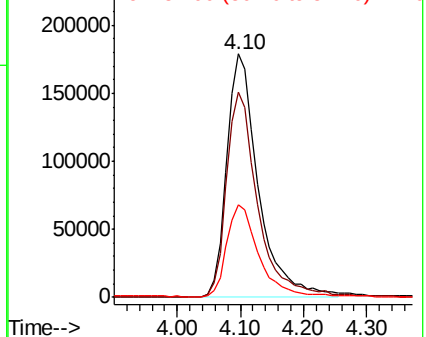
53 100

52 84.4 70.0 105.0

51 38.2 28.8 43.2



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: 281.551 ug/l

RT: 3.17 min Scan# 167

Delta R.T. 0.00 min

Lab File: VD060631.D

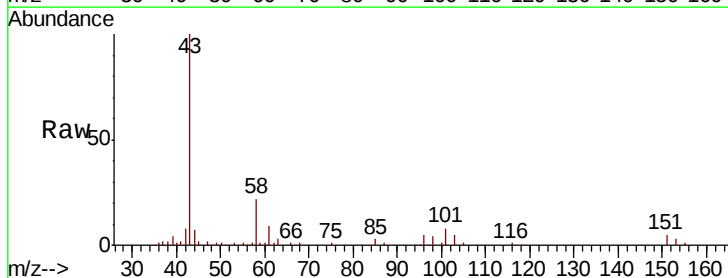
Acq: 19 Dec 2018 10:30

Tgt Ion: 43 Resp: 506347

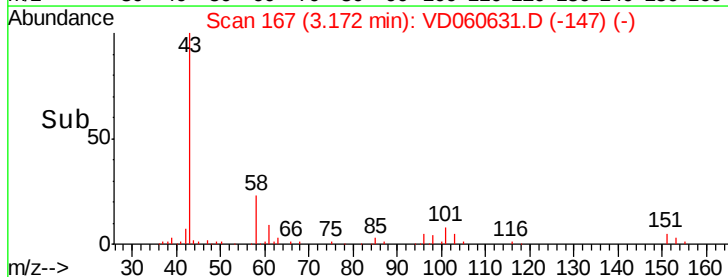
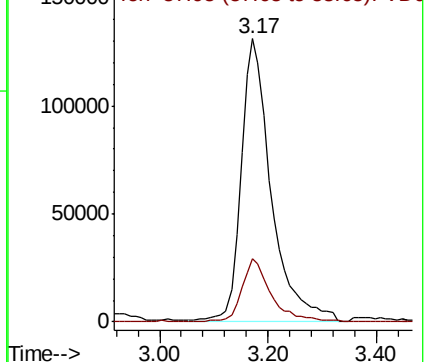
Ion Ratio Lower Upper

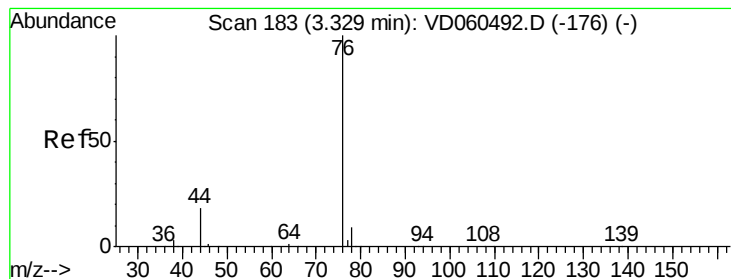
43 100

58 22.4 17.3 25.9



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





#17

Carbon Disulfide

Concen: 47.353 ug/l

RT: 3.33 min Scan# 183

Delta R.T. 0.00 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

Instrument :

MSVOA_D

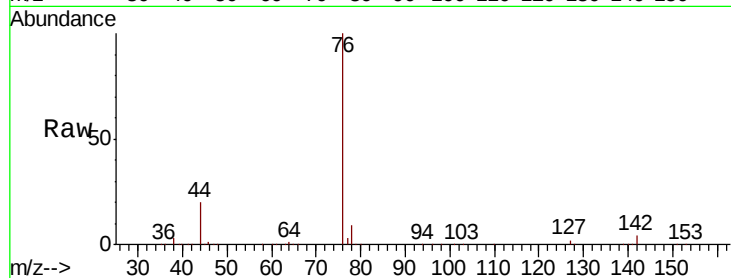
ClientSampleId :

Tot Ion: 76 Resp: 1216975

Ion Ratio Lower Upper

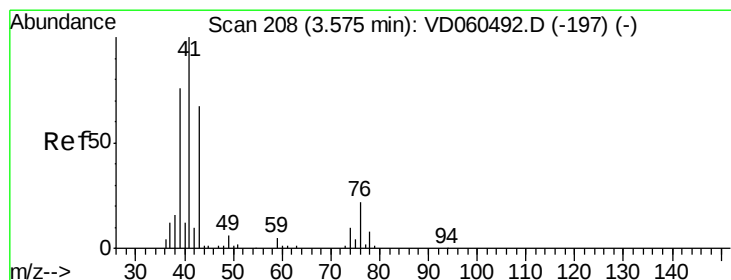
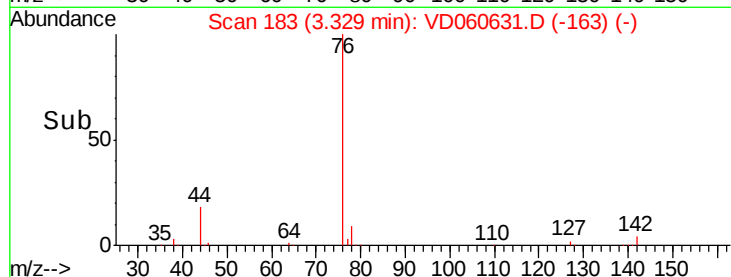
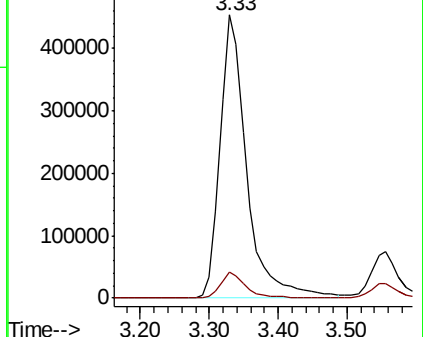
76 100

78 9.3 7.0 10.6



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 46.534 ug/l

RT: 3.58 min Scan# 208

Delta R.T. 0.00 min

Lab File: VD060631.D

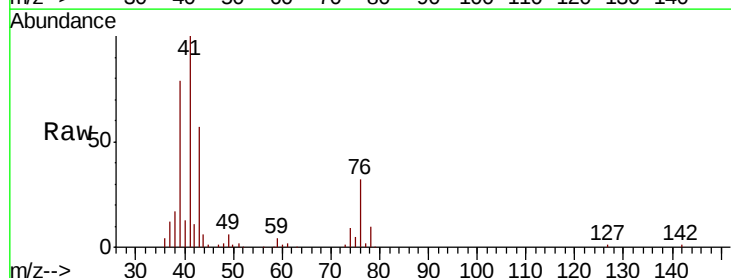
Acq: 19 Dec 2018 10:30

Tgt Ion: 43 Resp: 198898

Ion Ratio Lower Upper

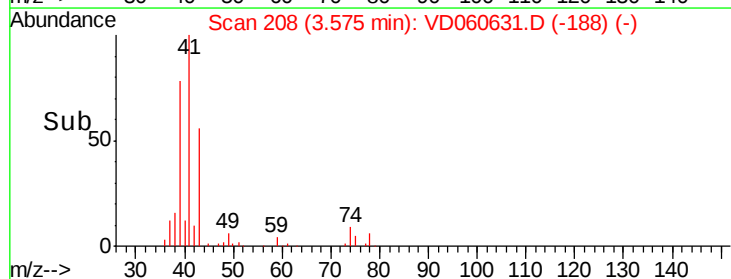
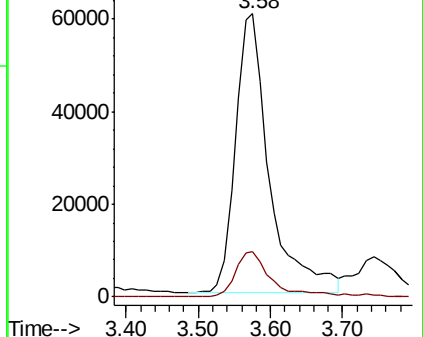
43 100

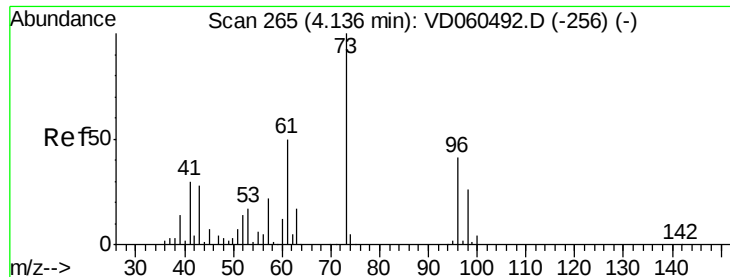
74 15.9 12.0 18.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

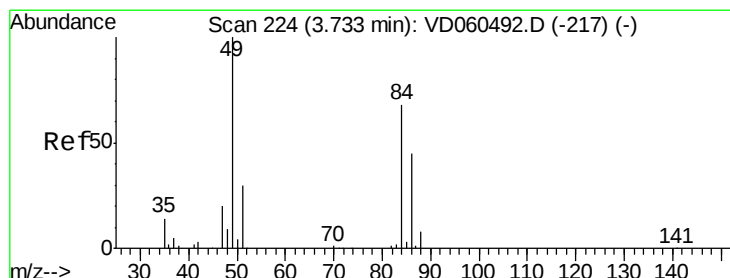
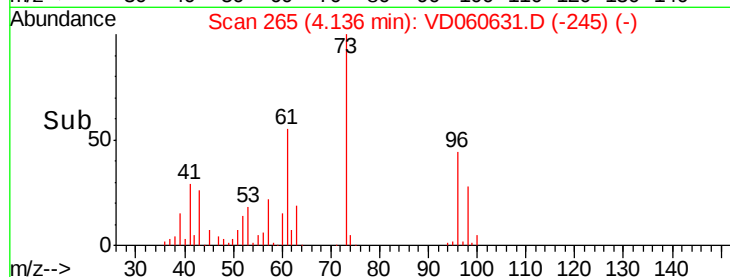
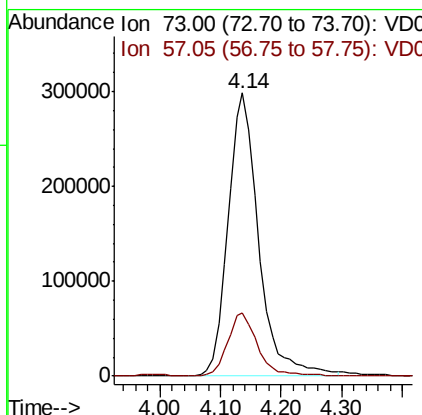
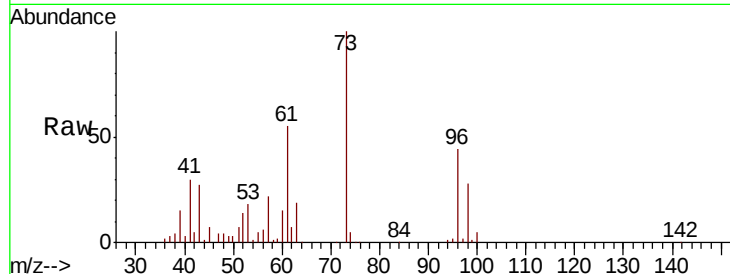




#19
Methyl tert-butyl Ether
Concen: 47.715 ug/l
RT: 4.14 min Scan# 265
Delta R.T. 0.00 min
Lab File: VD060631.D
Acq: 19 Dec 2018 10:30

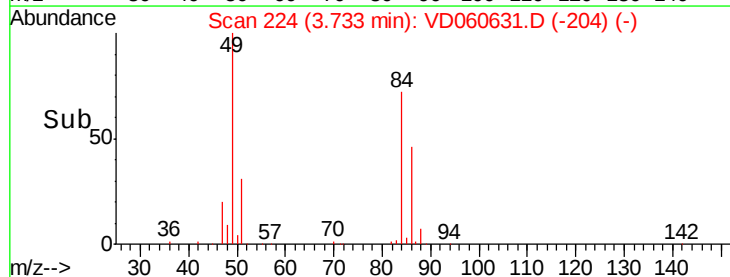
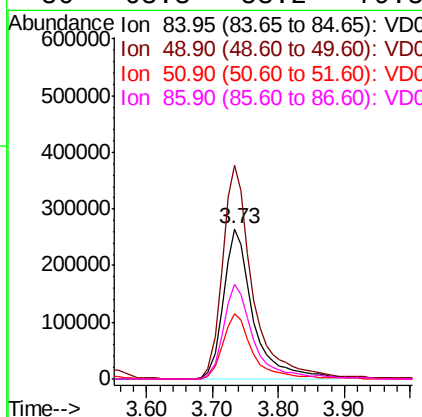
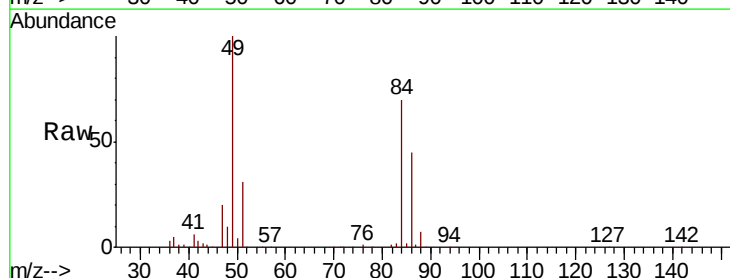
Instrument :
MSVOA_D
ClientSampleID :

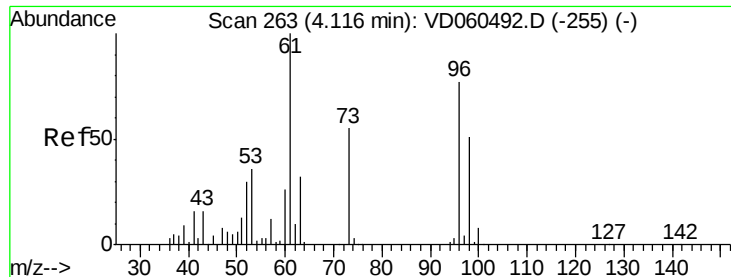
Tot Ion: 73 Resp: 1046920
Ion Ratio Lower Upper
73 100
57 22.2 17.8 26.6



#20
Methylene Chloride
Concen: 50.360 ug/l
RT: 3.73 min Scan# 224
Delta R.T. 0.00 min
Lab File: VD060631.D
Acq: 19 Dec 2018 10:30

Tgt Ion: 84 Resp: 831060
Ion Ratio Lower Upper
84 100
49 142.0 117.2 175.8
51 43.5 35.3 52.9
86 63.3 53.2 79.8





#21

trans-1,2-Dichloroethene

Concen: 48.530 ug/l

RT: 4.12 min Scan# 263

Delta R.T. 0.00 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

Instrument :

MSVOA_D

ClientSampleId :

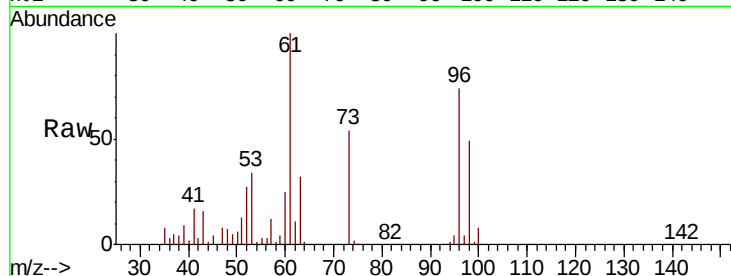
Tot Ion: 96 Resp: 835218

Ion Ratio Lower Upper

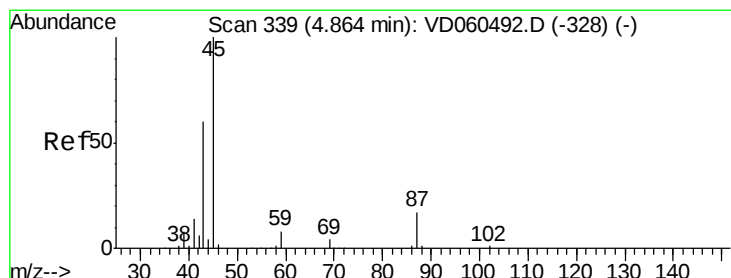
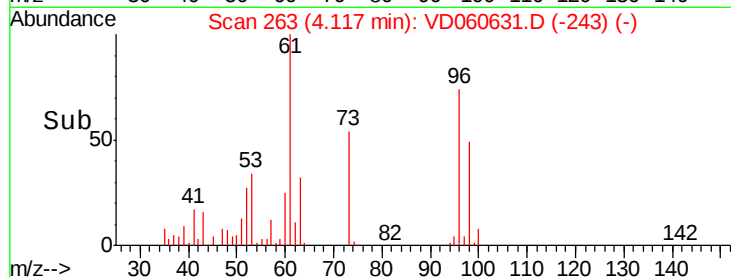
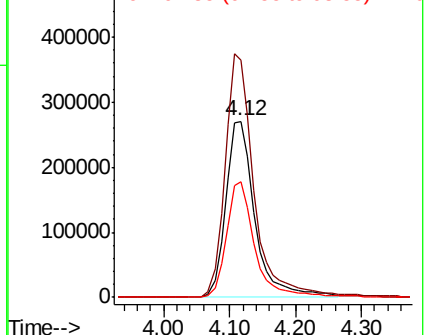
96 100

61 135.0 104.2 156.4

98 65.9 52.8 79.2



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



#22

Diisopropyl ether

Concen: 48.766 ug/l

RT: 4.86 min Scan# 339

Delta R.T. 0.00 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

Tgt Ion: 45 Resp: 2628324

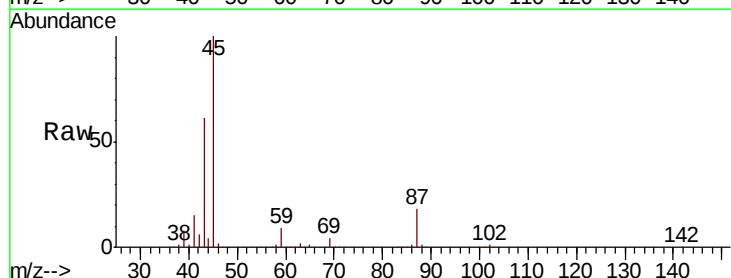
Ion Ratio Lower Upper

45 100

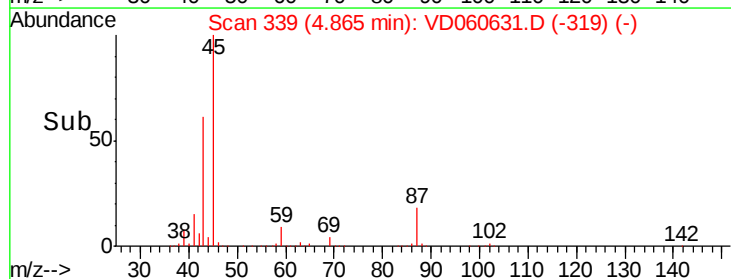
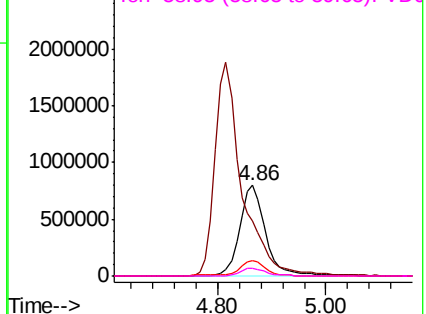
43 60.7 48.6 73.0

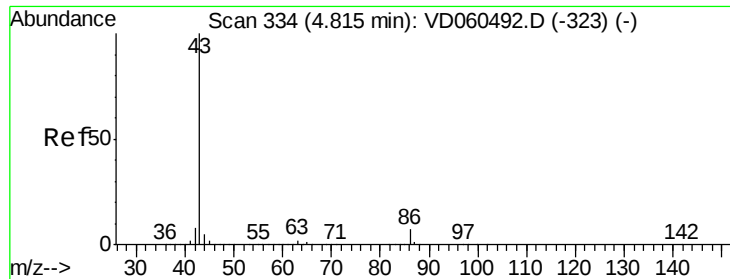
87 17.6 14.0 21.0

59 9.0 6.9 10.3



Abundance Ion 45.05 (44.75 to 45.75): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 242.430 ug/l

RT: 4.82 min Scan# 334

Delta R.T. 0.00 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

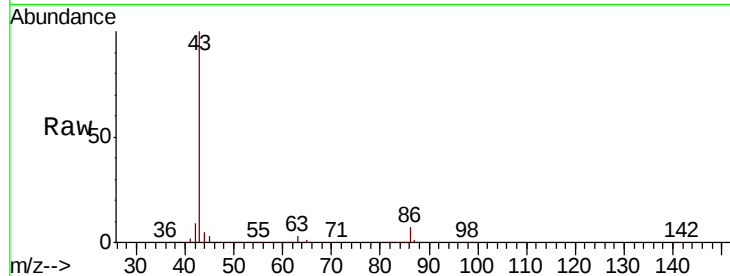
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 6473700

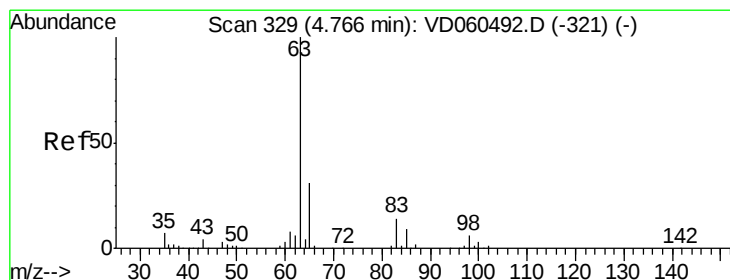
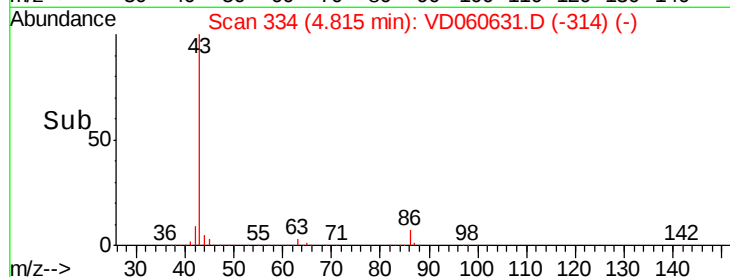
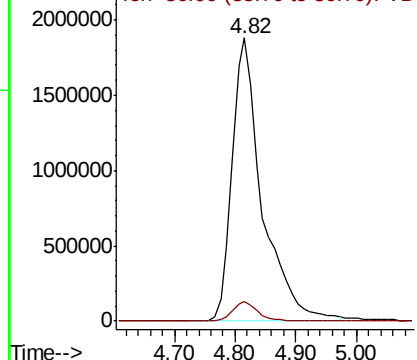
Ion Ratio Lower Upper

43 100

86 6.9 5.5 8.3



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 51.401 ug/l

RT: 4.77 min Scan# 329

Delta R.T. 0.00 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

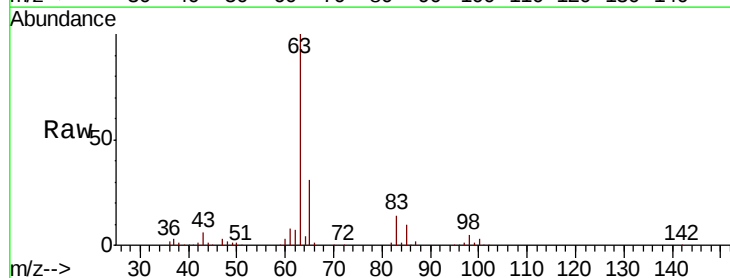
Tgt Ion: 63 Resp: 1439189

Ion Ratio Lower Upper

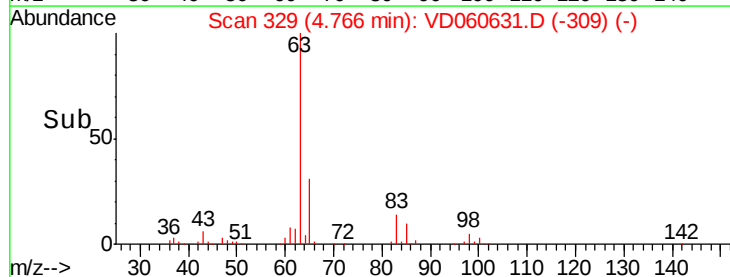
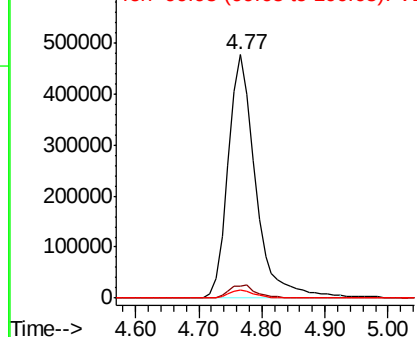
63 100

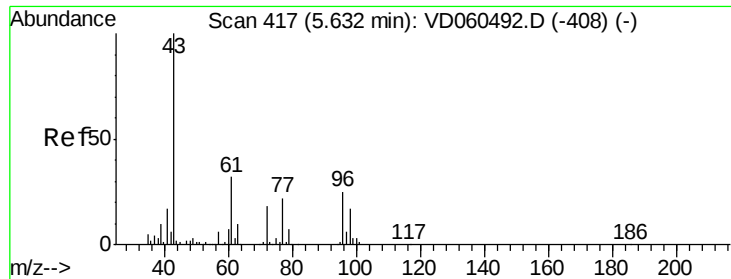
98 4.9 2.8 8.3

100 3.3 1.7 5.1



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: 267.184 ug/l

RT: 5.62 min Scan# 416

Delta R.T. -0.01 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

Instrument :

MSVOA_D

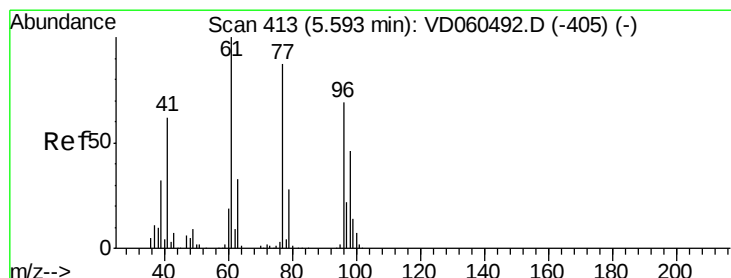
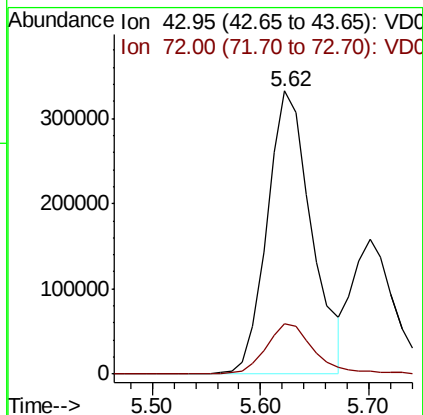
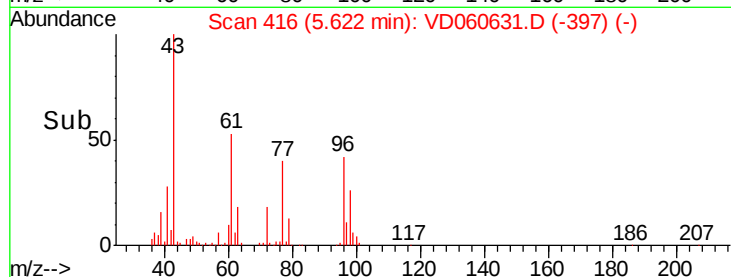
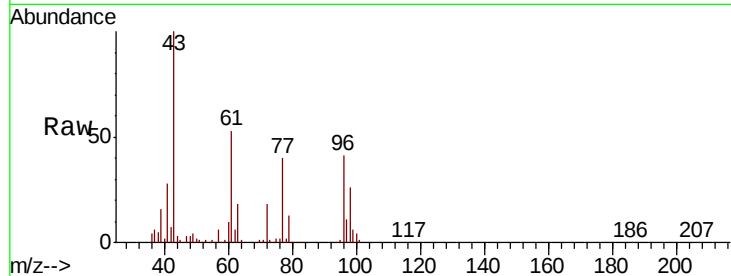
ClientSampleId :

Tot Ion: 43 Resp: 945356

Ion Ratio Lower Upper

43 100

72 17.8 14.6 21.8



#26

2,2-Dichloropropane

Concen: 53.435 ug/l

RT: 5.59 min Scan# 413

Delta R.T. 0.00 min

Lab File: VD060631.D

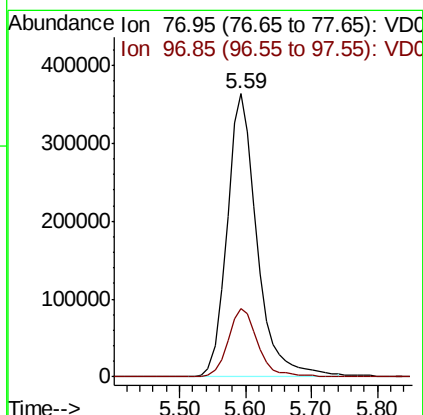
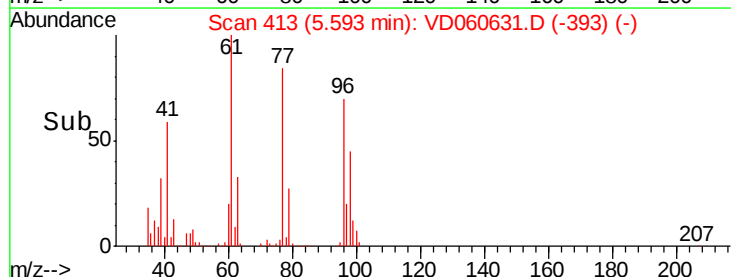
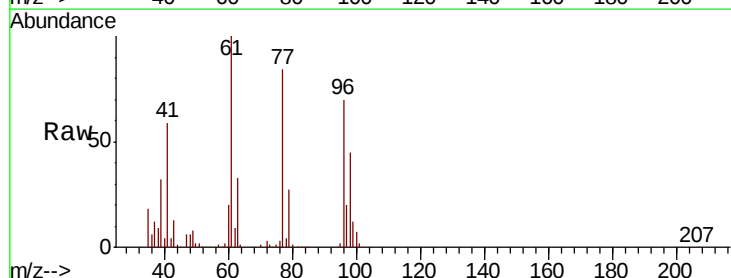
Acq: 19 Dec 2018 10:30

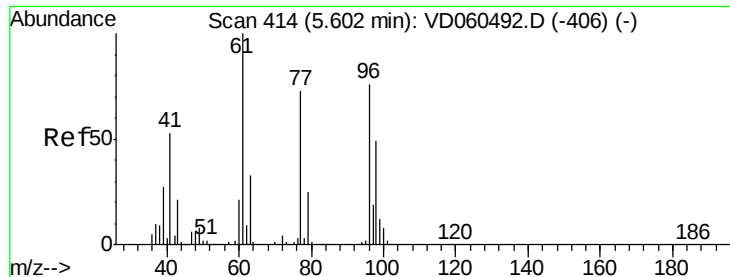
Tgt Ion: 77 Resp: 1155801

Ion Ratio Lower Upper

77 100

97 24.2 12.7 38.0



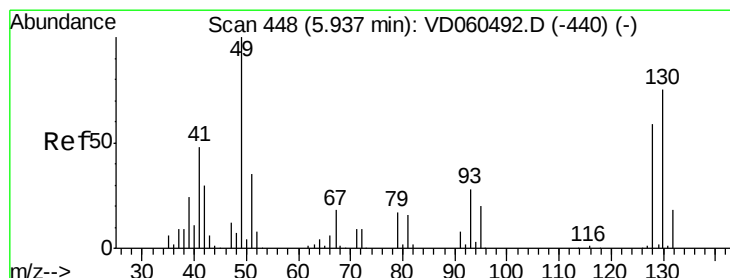
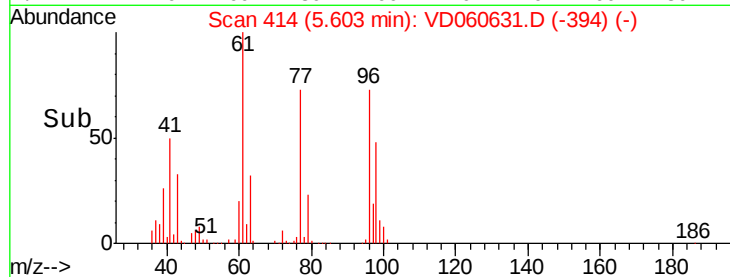
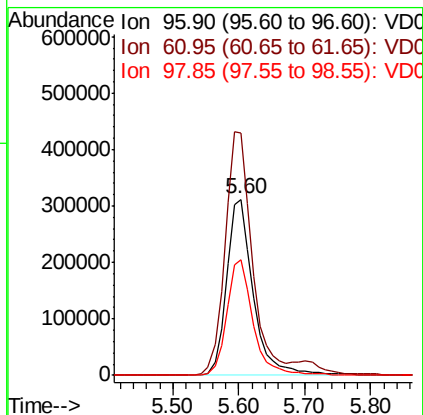
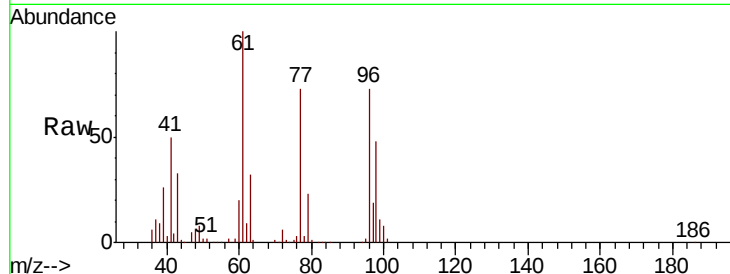


#27

cis-1,2-Dichloroethene
 Concen: 50.478 ug/l
 RT: 5.60 min Scan# 414
 Delta R.T. 0.00 min
 Lab File: VD060631.D
 Acq: 19 Dec 2018 10:30

Instrument :
 MSVOA_D
 ClientSampled :

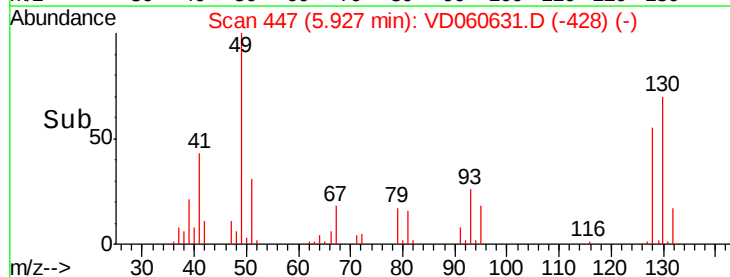
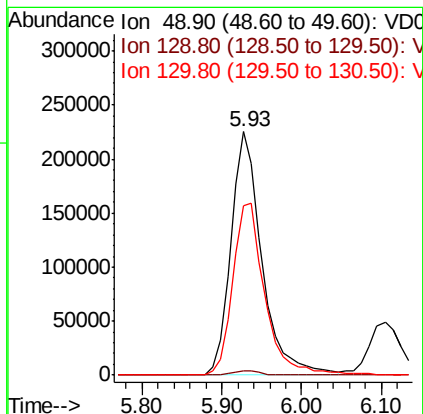
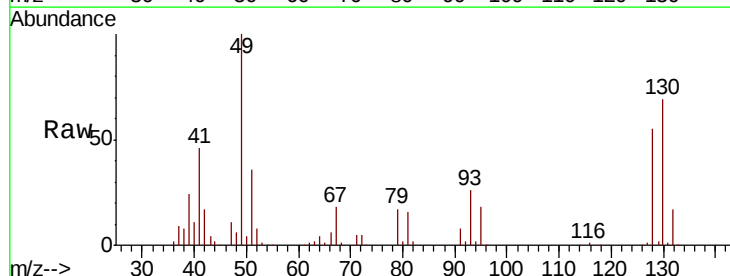
Tot Ion	Ratio	Lower	Upper
96	100		
61	137.4	0.0	263.6
98	65.5	0.0	128.2



#28

Bromochloromethane
 Concen: 49.114 ug/l
 RT: 5.93 min Scan# 447
 Delta R.T. -0.01 min
 Lab File: VD060631.D
 Acq: 19 Dec 2018 10:30

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.4
130	69.4	59.8	89.6

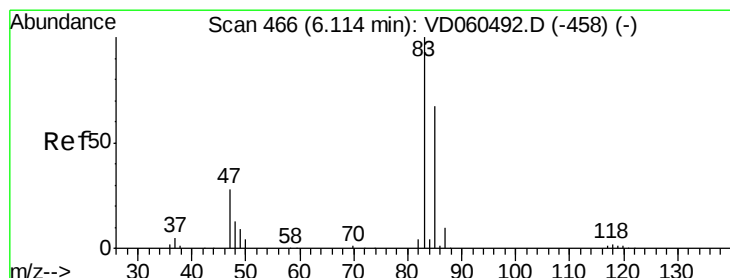
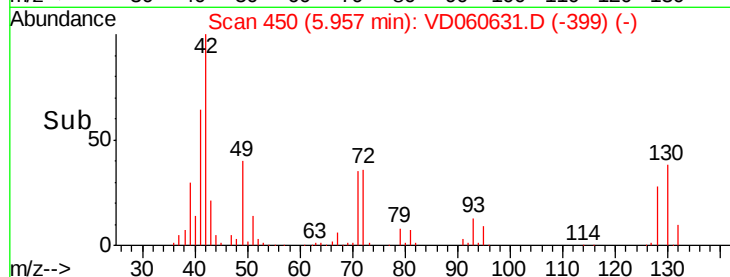
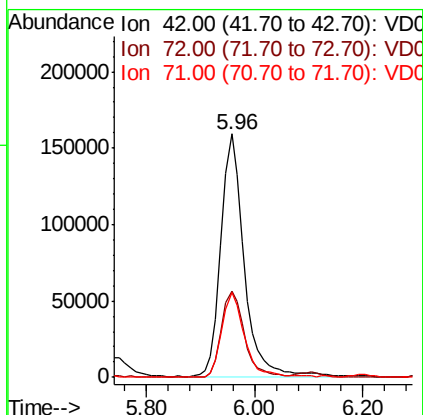
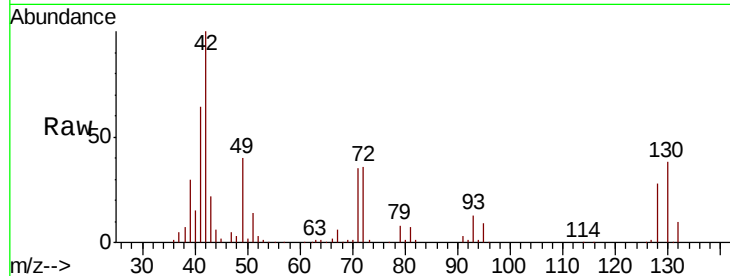




#29
Tetrahydrofuran
Concen: 237.041 ug/l
RT: 5.96 min Scan# 450
Delta R.T. 0.00 min
Lab File: VD060631.D
Acq: 19 Dec 2018 10:30

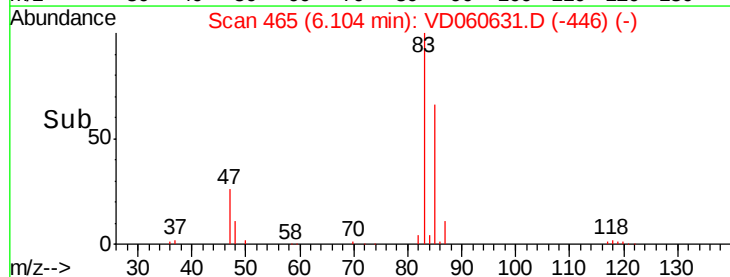
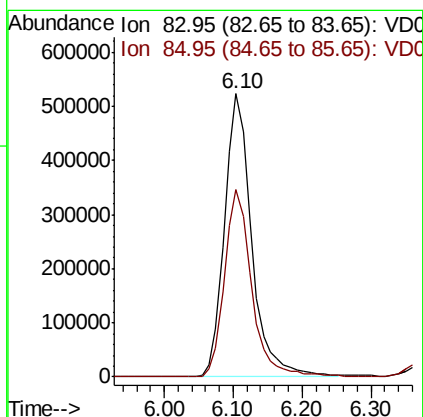
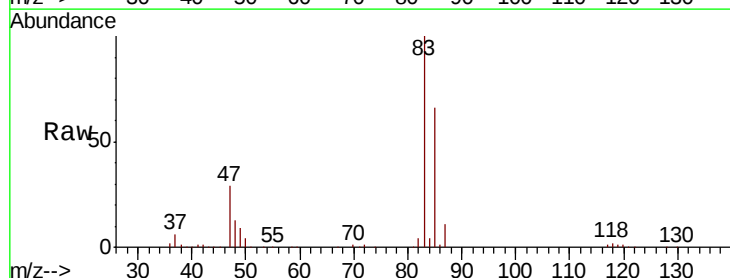
Instrument :
MSVOA_D
ClientSampleId :

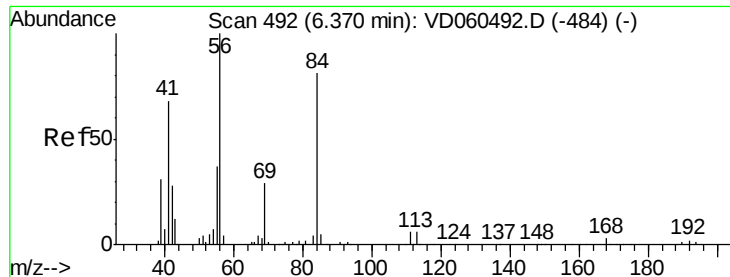
Tot Ion: 42 Resp: 474941
Ion Ratio Lower Upper
42 100
72 35.0 28.0 42.0
71 33.8 27.2 40.8



#30
Chloroform
Concen: 50.909 ug/l
RT: 6.10 min Scan# 465
Delta R.T. -0.01 min
Lab File: VD060631.D
Acq: 19 Dec 2018 10:30

Tgt Ion: 83 Resp: 1436047
Ion Ratio Lower Upper
83 100
85 66.4 53.4 80.2

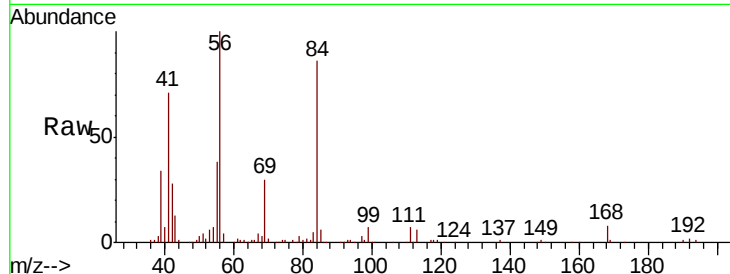




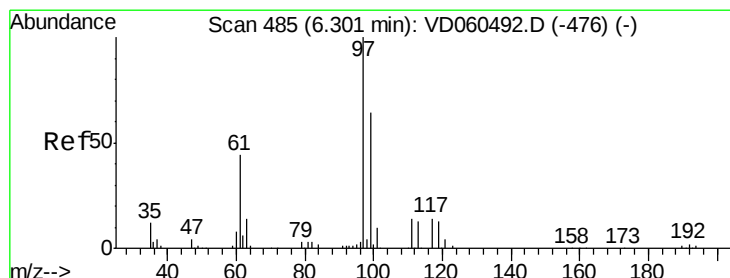
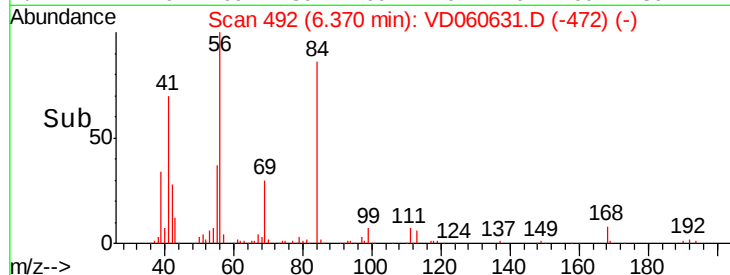
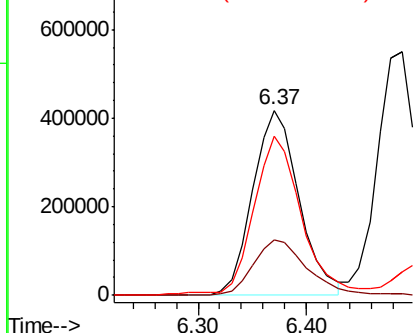
#31
Cyclohexane
Concen: 51.805 ug/l
RT: 6.37 min Scan# 492
Delta R.T. 0.00 min
Lab File: VD060631.D
Acq: 19 Dec 2018 10:30

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 1237051
Ion Ratio Lower Upper
56 100
69 30.1 22.8 34.2
84 86.1 65.1 97.7

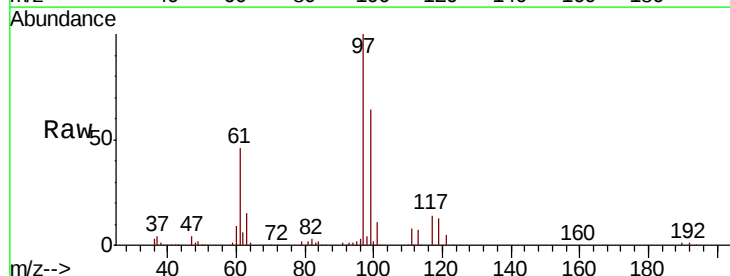


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

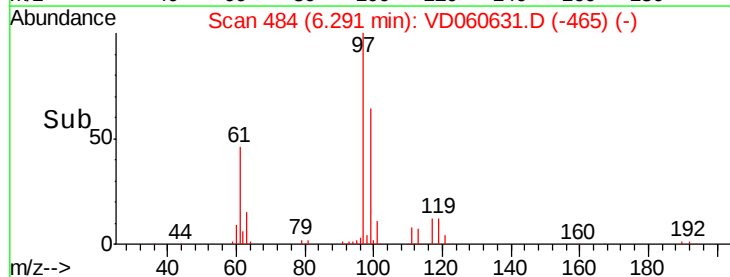
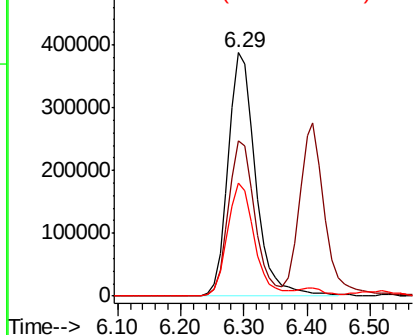


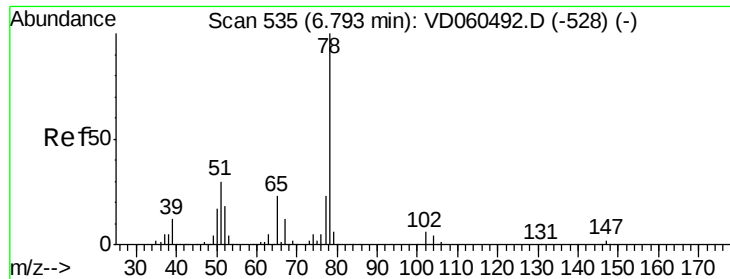
#32
1,1,1-Trichloroethane
Concen: 49.964 ug/l
RT: 6.29 min Scan# 484
Delta R.T. -0.01 min
Lab File: VD060631.D
Acq: 19 Dec 2018 10:30

Tgt Ion: 97 Resp: 1158640
Ion Ratio Lower Upper
97 100
99 64.0 51.0 76.4
61 46.5 35.3 52.9



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

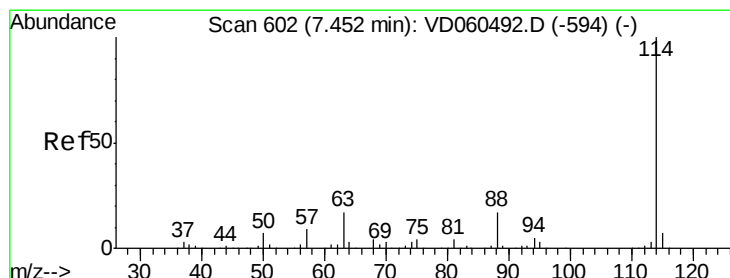
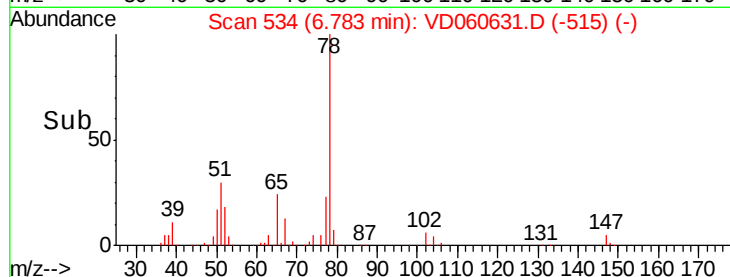
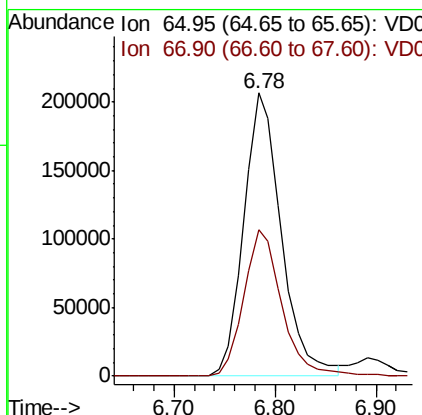
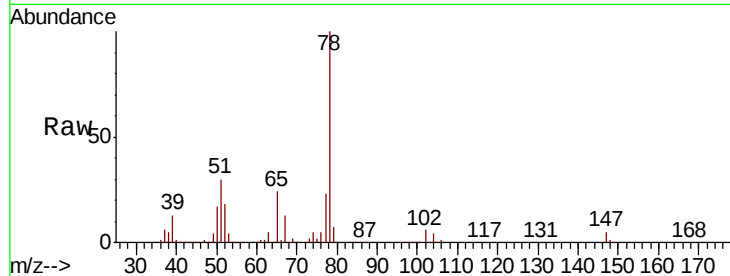




#33
 1,2-Dichloroethane-d4
 Concen: 49.964 ug/l
 RT: 6.78 min Scan# 534
 Delta R.T. -0.01 min
 Lab File: VD060631.D
 Acq: 19 Dec 2018 10:30

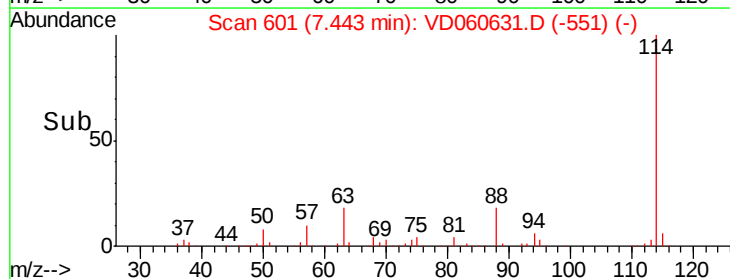
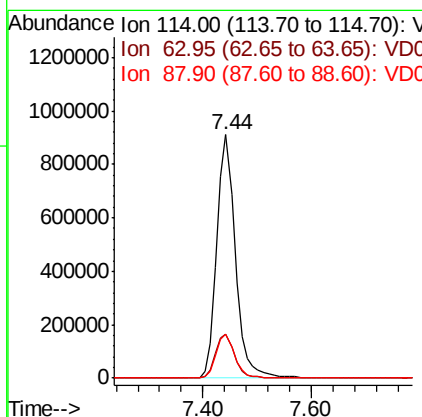
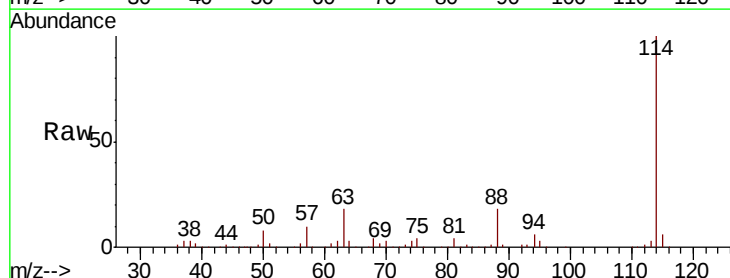
Instrument :
 MSVOA_D
 ClientSampleID :

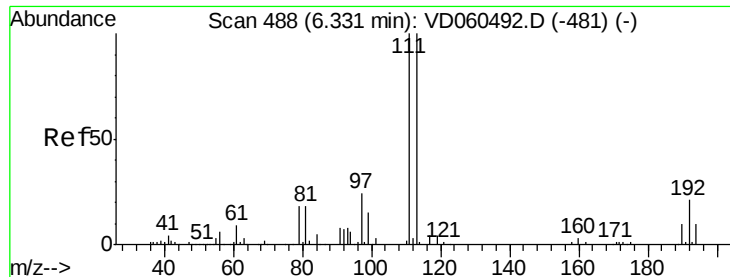
Tot Ion: 65 Resp: 534864
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.44 min Scan# 601
 Delta R.T. -0.01 min
 Lab File: VD060631.D
 Acq: 19 Dec 2018 10:30

Tgt Ion: 114 Resp: 2168034
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 34.2
 88 18.2 0.0 35.0

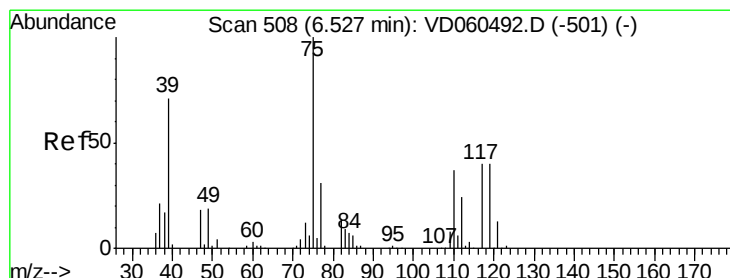
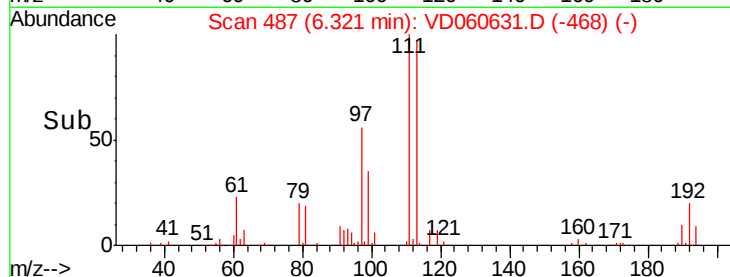
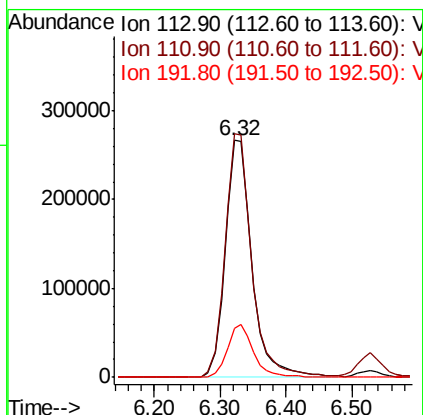
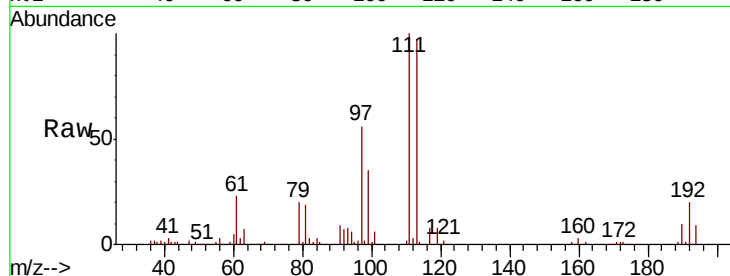




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.32 min Scan# 487
 Delta R.T. -0.01 min
 Lab File: VD060631.D
 Acq: 19 Dec 2018 10:30

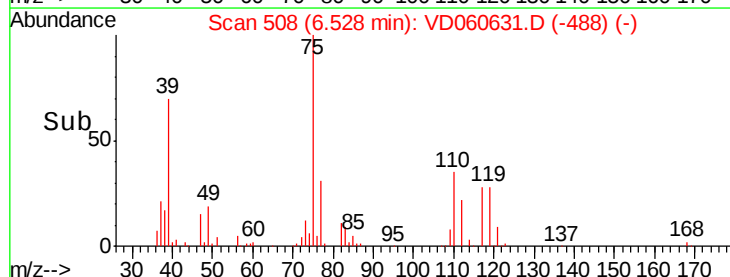
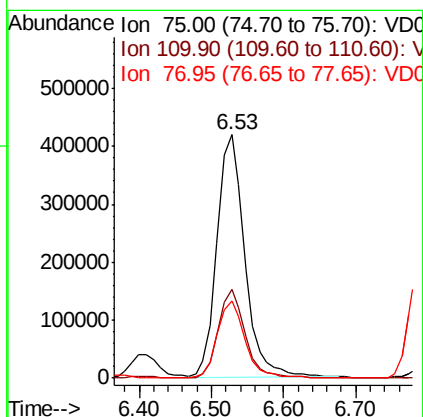
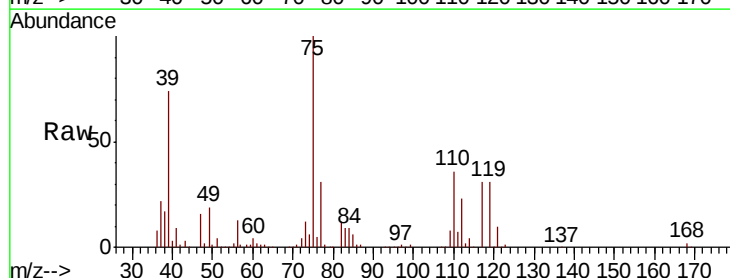
Instrument :
 MSVOA_D
 ClientSampleId :

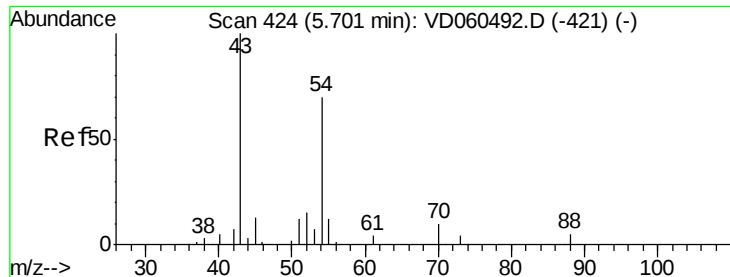
Tot Ion:113 Resp: 758430
 Ion Ratio Lower Upper
 113 100
 111 102.8 80.2 120.4
 192 20.9 16.6 24.8



#36
 1,1-Dichloropropene
 Concen: 52.349 ug/l
 RT: 6.53 min Scan# 508
 Delta R.T. 0.00 min
 Lab File: VD060631.D
 Acq: 19 Dec 2018 10:30

Tgt Ion: 75 Resp: 1109391
 Ion Ratio Lower Upper
 75 100
 110 36.2 18.3 54.8
 77 31.5 24.6 37.0

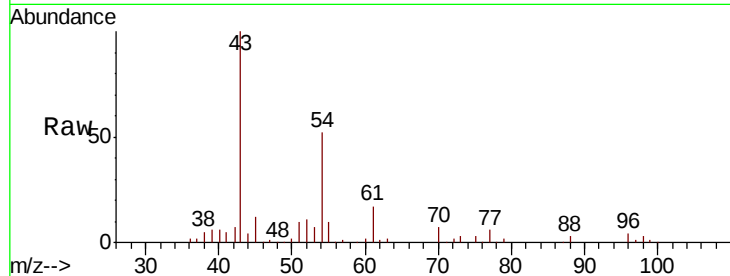




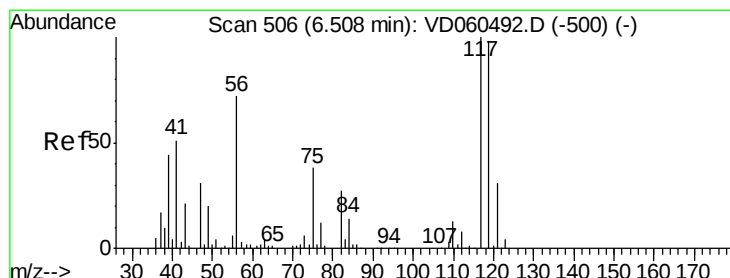
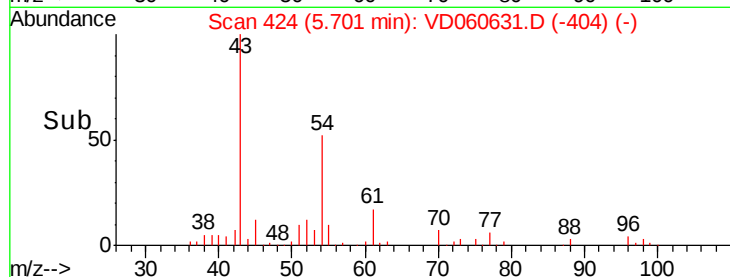
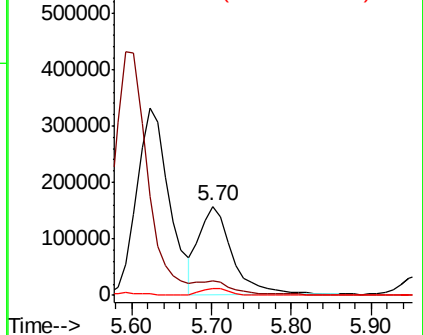
#37
Ethyl Acetate
Concen: 48.773 ug/l
RT: 5.70 min Scan# 424
Delta R.T. 0.00 min
Lab File: VD060631.D
Acq: 19 Dec 2018 10:30

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 448262
Ion Ratio Lower Upper
43 100
61 16.5 12.4 18.6
70 7.3 5.4 8.0

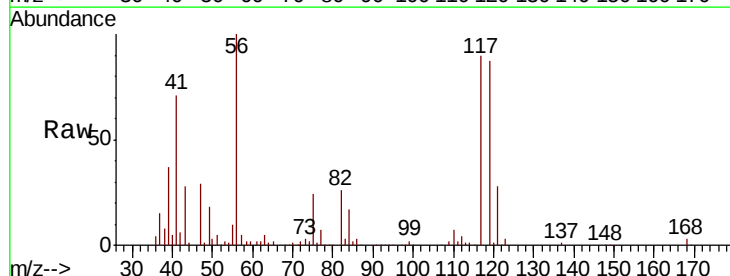


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

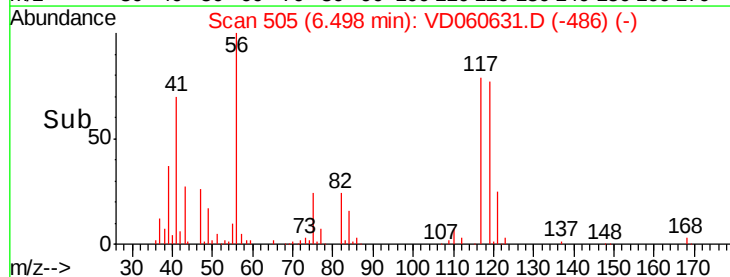
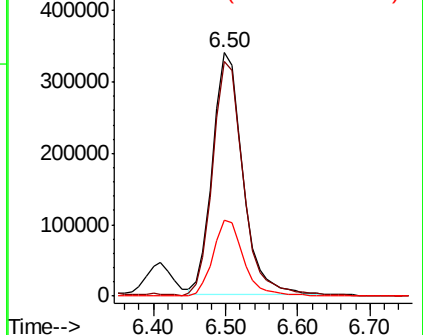


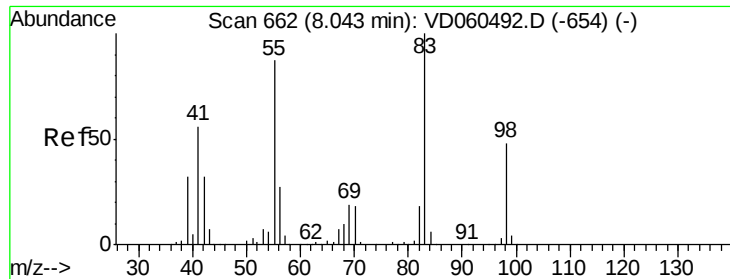
#38
Carbon Tetrachloride
Concen: 51.805 ug/l
RT: 6.50 min Scan# 505
Delta R.T. -0.01 min
Lab File: VD060631.D
Acq: 19 Dec 2018 10:30

Tgt Ion: 117 Resp: 985610
Ion Ratio Lower Upper
117 100
119 96.6 76.8 115.2
121 31.4 24.4 36.6



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

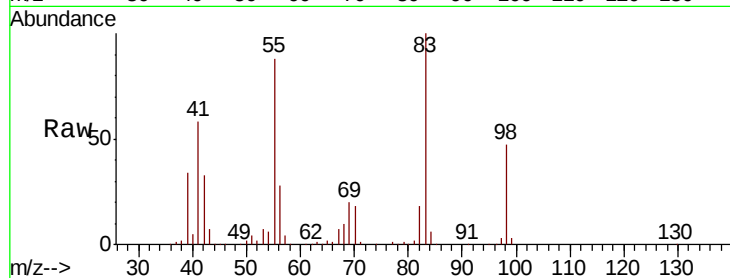




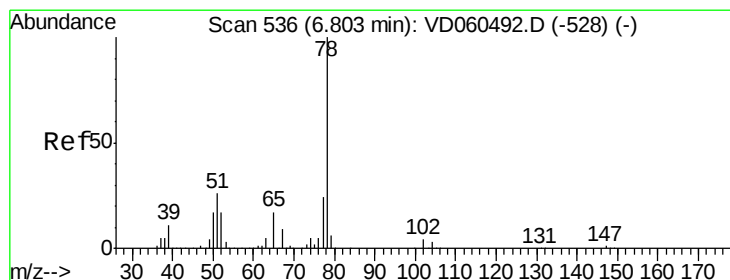
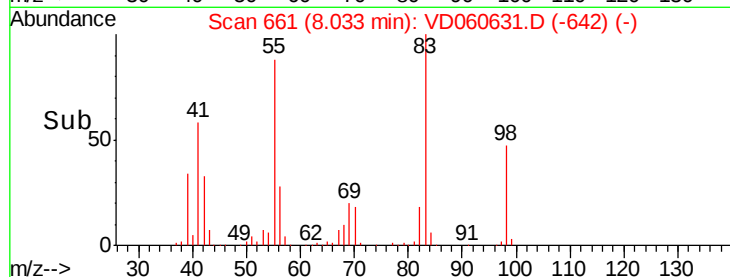
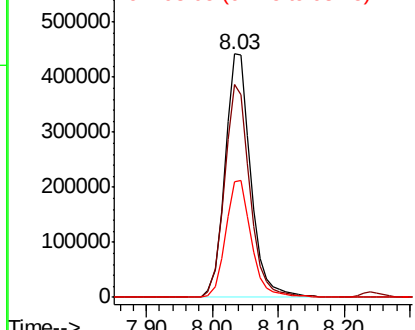
#39
Methvlcvclohexane
Concen: 50.099 ug/l
RT: 8.03 min Scan# 661
Delta R.T. -0.01 min
Lab File: VD060631.D
Acq: 19 Dec 2018 10:30

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 83 Resp: 1210327
Ion Ratio Lower Upper
83 100
55 87.6 69.8 104.8
98 47.5 38.4 57.6

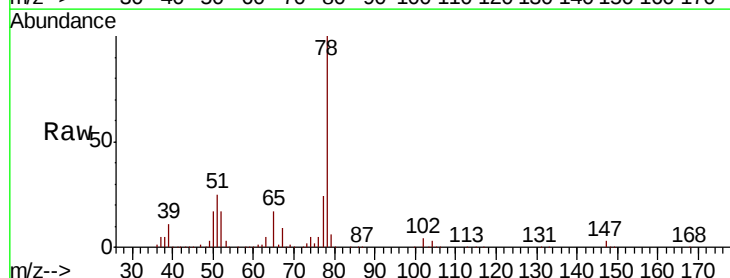


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

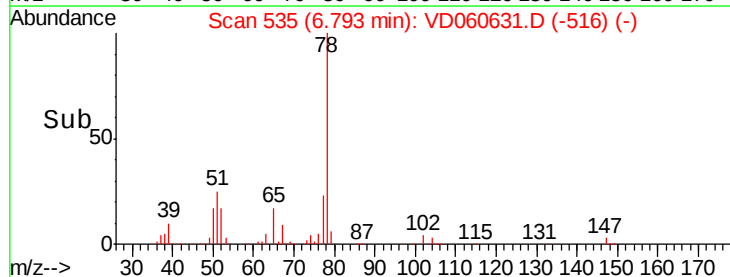
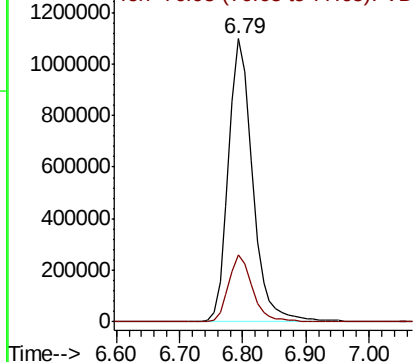


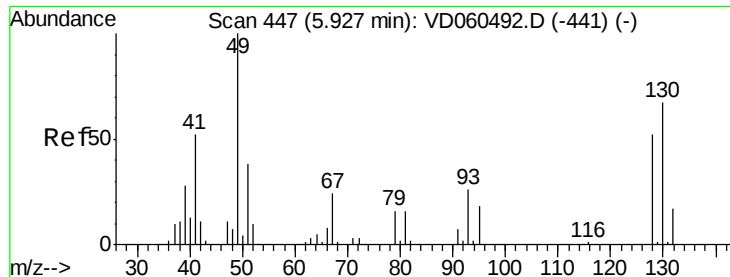
#40
Benzene
Concen: 53.932 ug/l
RT: 6.79 min Scan# 535
Delta R.T. -0.01 min
Lab File: VD060631.D
Acq: 19 Dec 2018 10:30

Tgt Ion: 78 Resp: 2921000
Ion Ratio Lower Upper
78 100
77 23.6 18.9 28.3



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

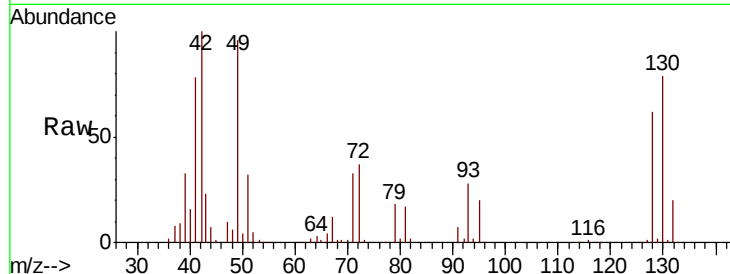




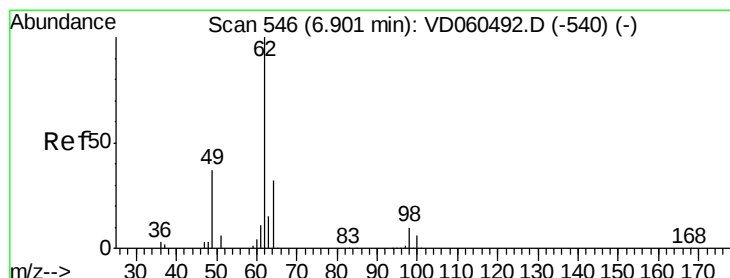
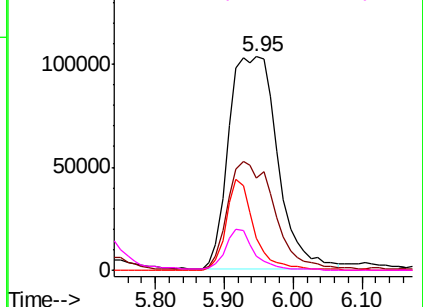
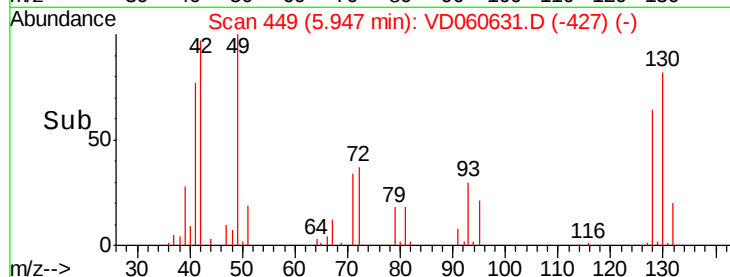
#41
Methacrylonitrile
Concen: 102.129 ug/l
RT: 5.95 min Scan# 449
Delta R.T. 0.02 min
Lab File: VD060631.D
Acq: 19 Dec 2018 10:30

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 41 Resp: 505986
Ion Ratio Lower Upper
41 100
39 43.0 42.6 63.8
67 14.9 36.2 54.4#
52 6.5 15.6 23.4#

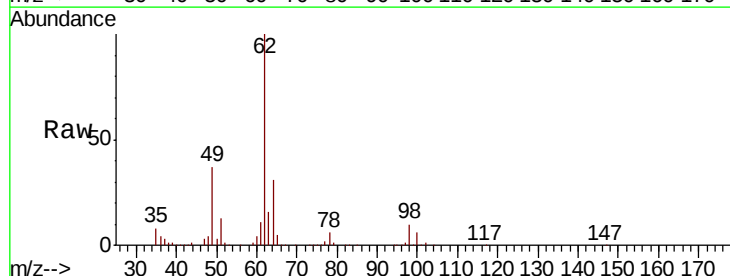


Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

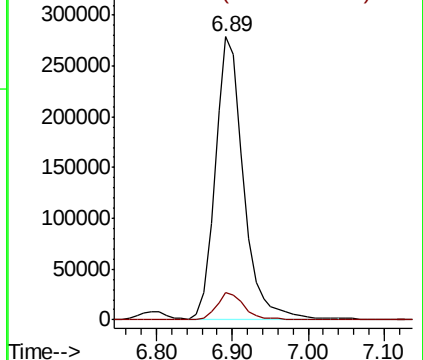
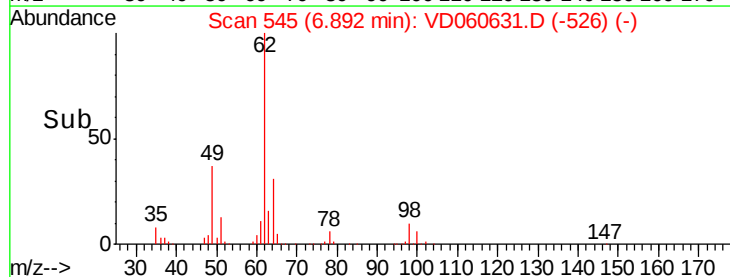


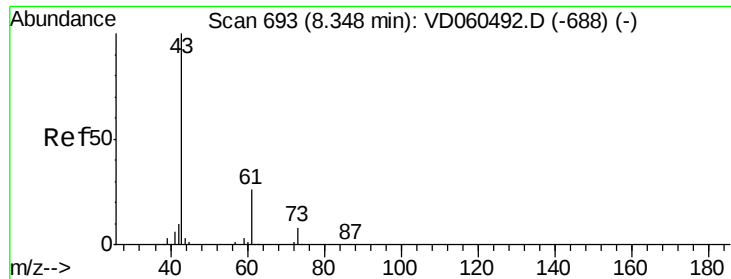
#42
1,2-Dichloroethane
Concen: 52.152 ug/l
RT: 6.89 min Scan# 545
Delta R.T. -0.01 min
Lab File: VD060631.D
Acq: 19 Dec 2018 10:30

Tgt Ion: 62 Resp: 718166
Ion Ratio Lower Upper
62 100
98 9.5 0.0 20.2



Abundance Ion 61.95 (61.65 to 62.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



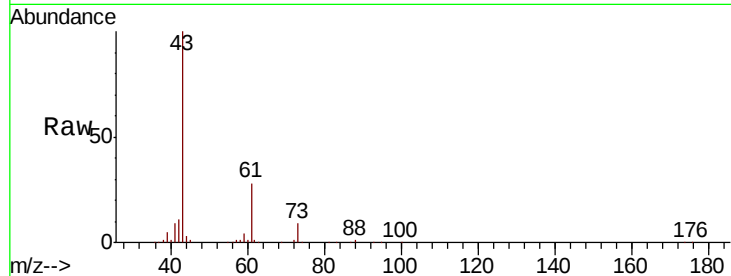


#43

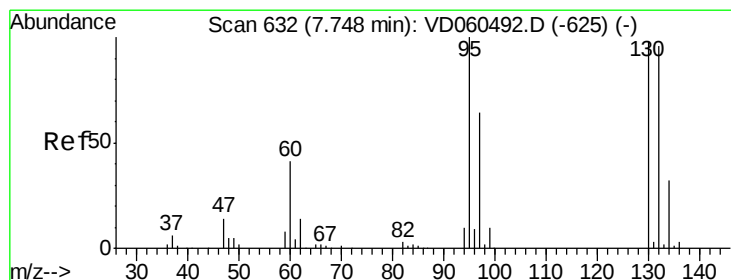
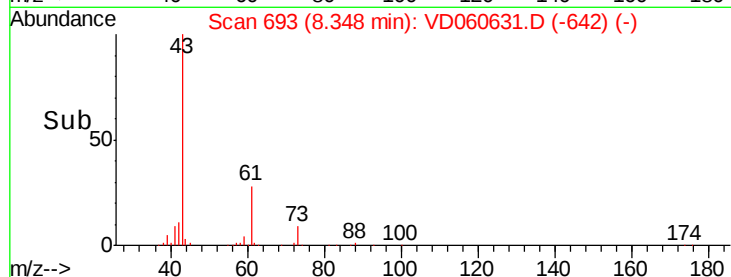
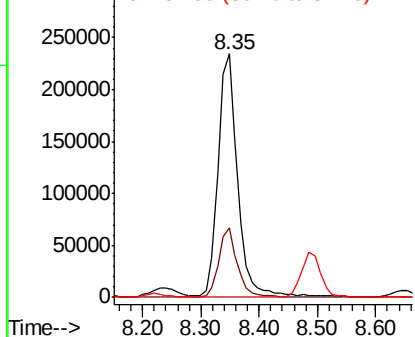
Isopropyl Acetate
 Concen: 48.671 ug/l
 RT: 8.35 min Scan# 693
 Delta R.T. 0.00 min
 Lab File: VD060631.D
 Acq: 19 Dec 2018 10:30

Instrument :
 MSVOA_D
 ClientSampleID :

Tot Ion: 43 Resp: 552181
 Ion Ratio Lower Upper
 43 100
 61 28.4 21.0 31.4
 87 0.4 0.2 0.2#



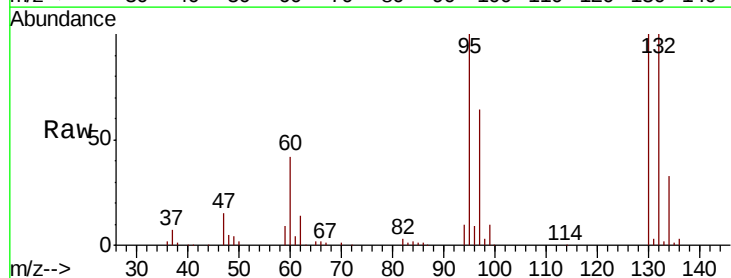
Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



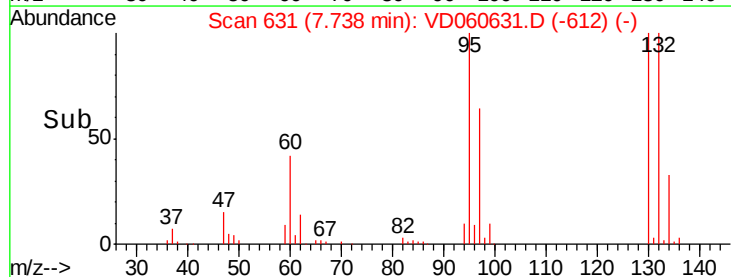
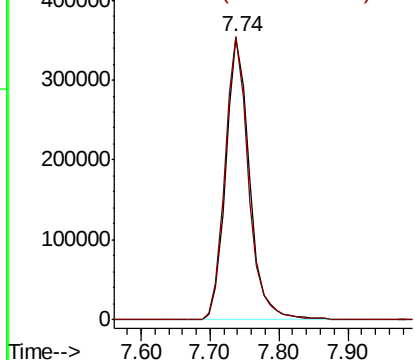
#44

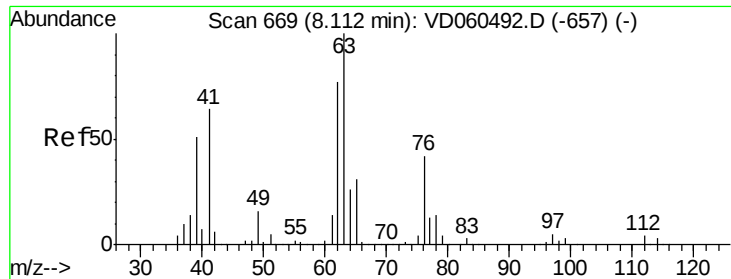
Trichloroethene
 Concen: 52.088 ug/l
 RT: 7.74 min Scan# 631
 Delta R.T. -0.01 min
 Lab File: VD060631.D
 Acq: 19 Dec 2018 10:30

Tgt Ion:130 Resp: 843099
 Ion Ratio Lower Upper
 130 100
 95 100.2 0.0 203.8



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





#45

1,2-Dichloropropane

Concen: 53.196 ug/l

RT: 8.10 min Scan# 668

Delta R.T. -0.01 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

Instrument :

MSVOA_D

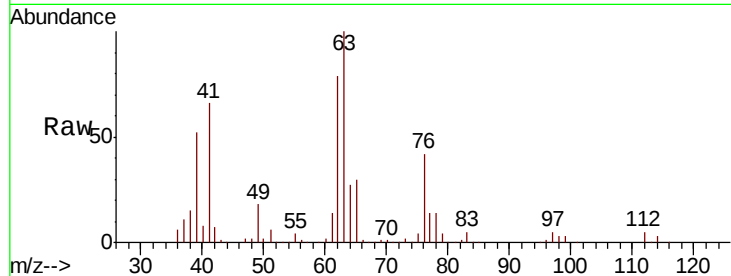
ClientSampled :

Tot Ion: 63 Resp: 712577

Ion Ratio Lower Upper

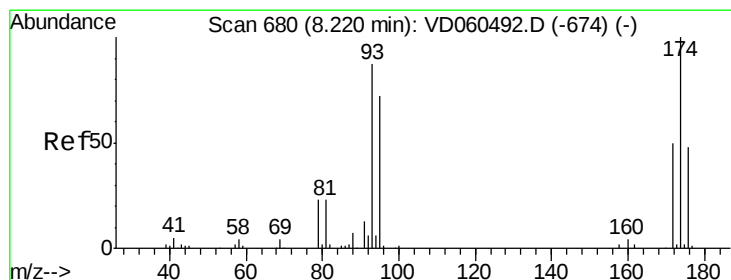
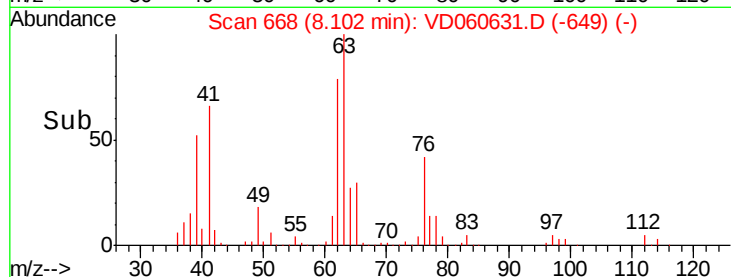
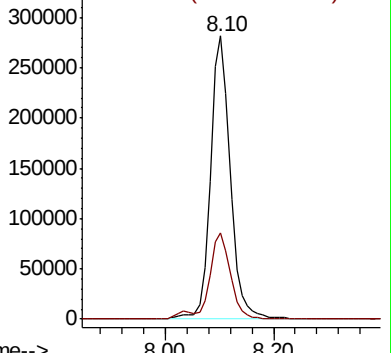
63 100

65 30.4 24.6 37.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 50.814 ug/l

RT: 8.21 min Scan# 679

Delta R.T. -0.01 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

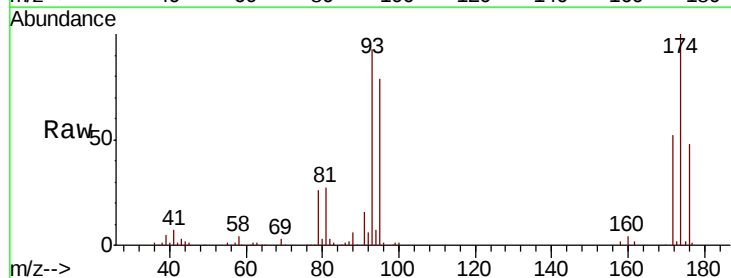
Tgt Ion: 93 Resp: 393269

Ion Ratio Lower Upper

93 100

95 85.8 65.6 98.4

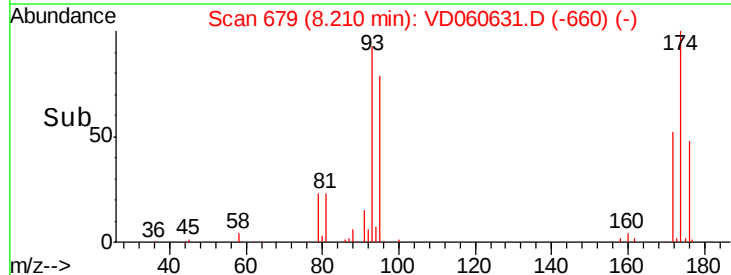
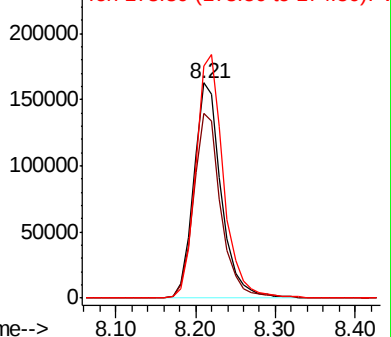
174 108.0 91.7 137.5

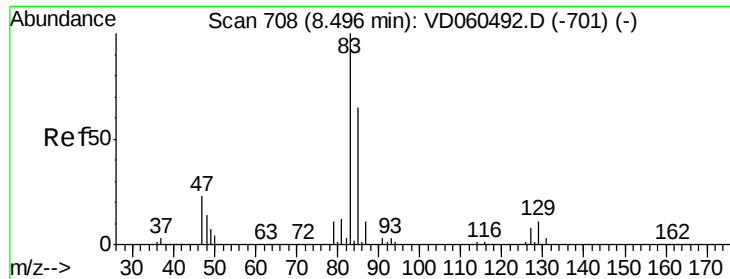


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 54.399 ug/l

RT: 8.49 min Scan# 707

Delta R.T. -0.01 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

Instrument :

MSVOA_D

ClientSampled :

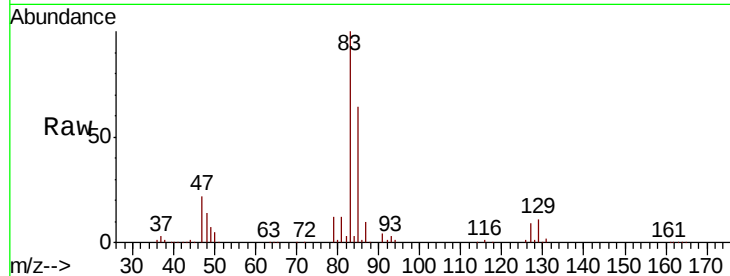
Tot Ion: 83 Resp: 998960

Ion Ratio Lower Upper

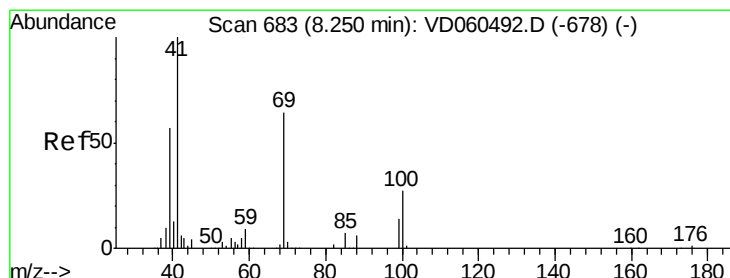
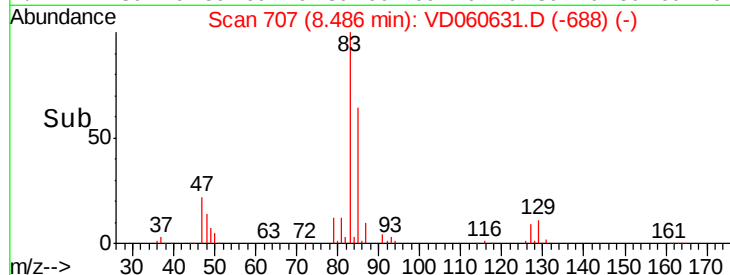
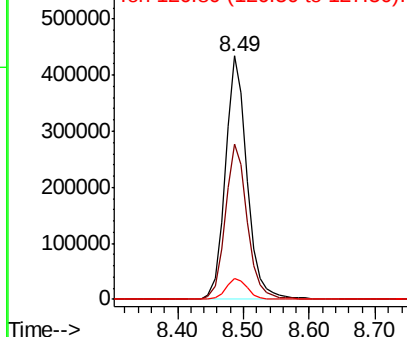
83 100

85 63.6 52.2 78.4

127 8.6 6.7 10.1



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



#48

Methyl methacrylate

Concen: 50.406 ug/l

RT: 8.24 min Scan# 682

Delta R.T. -0.01 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

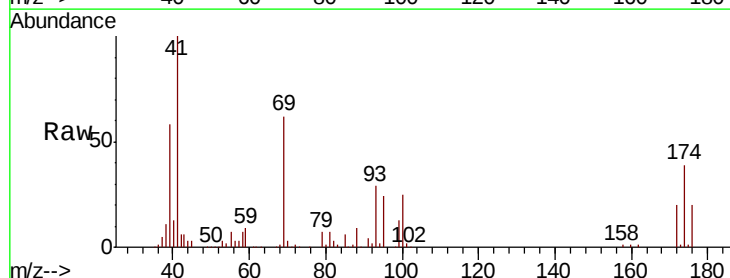
Tgt Ion: 41 Resp: 338371

Ion Ratio Lower Upper

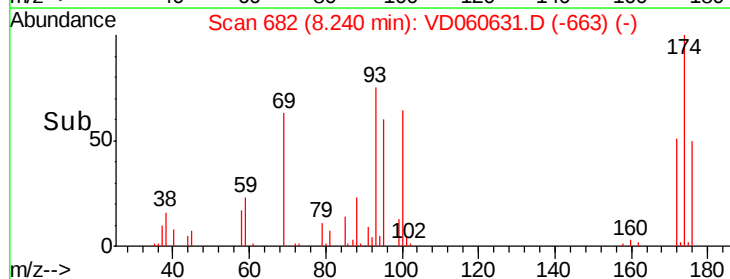
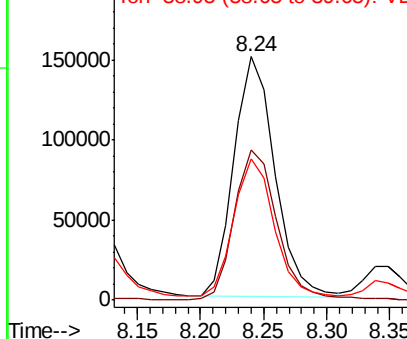
41 100

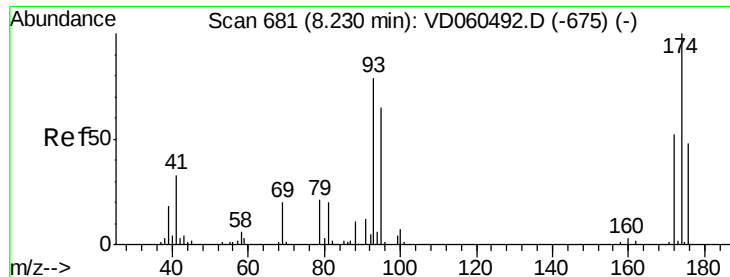
69 61.7 50.2 75.4

39 58.3 46.1 69.1



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

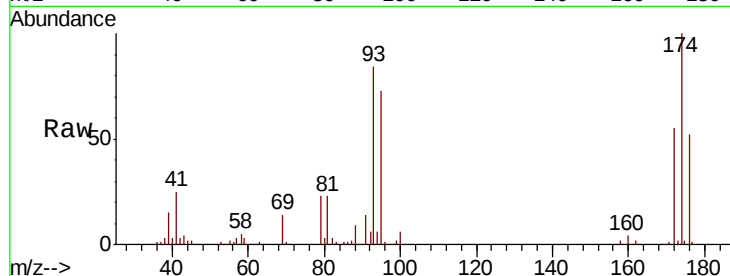




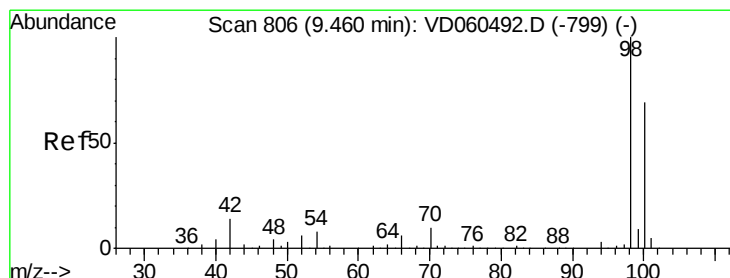
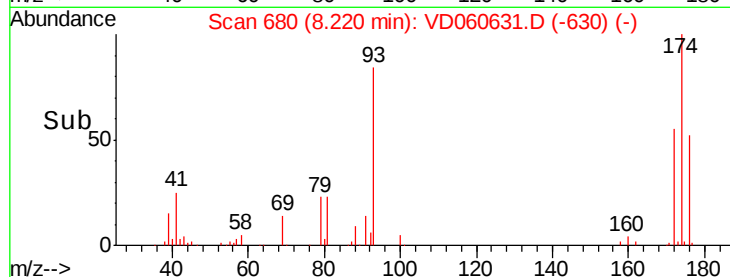
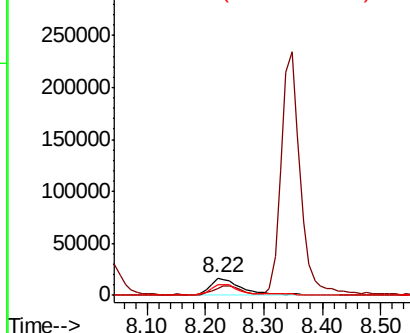
#49
1,4-Dioxane
Concen: 1019.178 ug/l
RT: 8.22 min Scan# 680
Delta R.T. -0.01 min
Lab File: VD060631.D
Acq: 19 Dec 2018 10:30

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 88 Resp: 62008
Ion Ratio Lower Upper
88 100
43 42.2 32.9 49.3
58 58.7 47.7 71.5

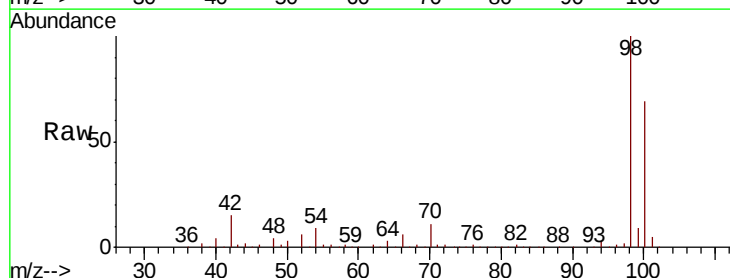


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

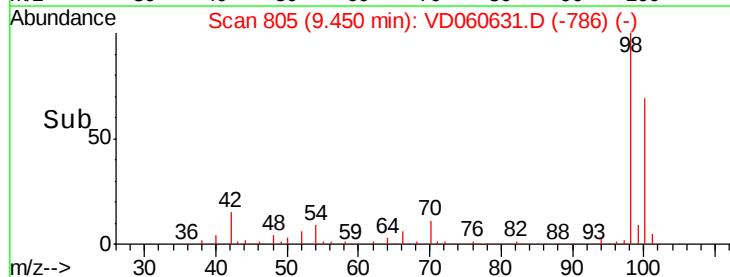
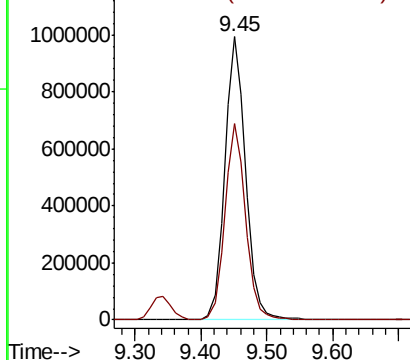


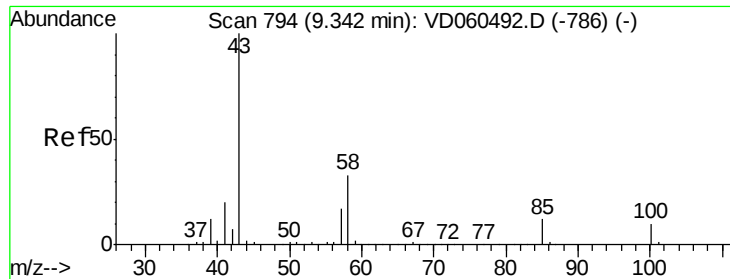
#50
Toluene-d8
Concen: 1019.178 ug/l
RT: 9.45 min Scan# 805
Delta R.T. -0.01 min
Lab File: VD060631.D
Acq: 19 Dec 2018 10:30

Tgt Ion: 98 Resp: 2193397
Ion Ratio Lower Upper
98 100
100 69.4 55.7 83.5



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: 256.922 ug/l

RT: 9.33 min Scan# 793

Delta R.T. -0.01 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

Instrument :

MSVOA_D

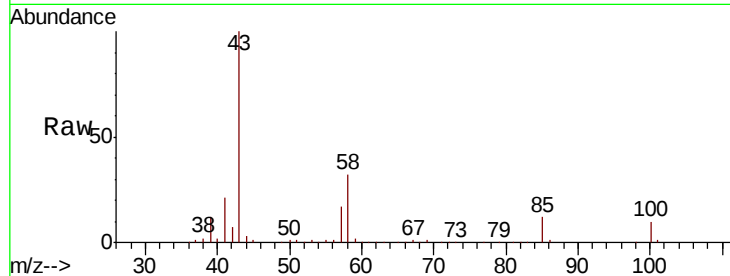
ClientSampleId :

Tot Ion: 43 Resp: 1813163

Ion Ratio Lower Upper

43 100

58 32.3 26.3 39.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

9.33

800000

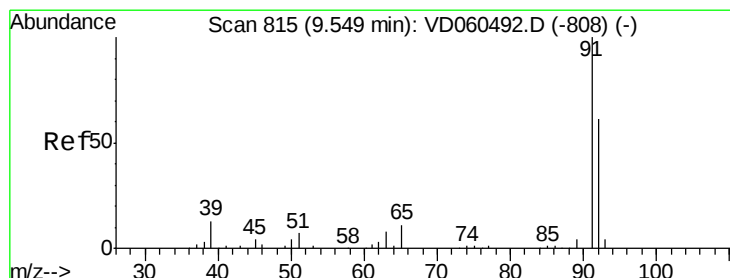
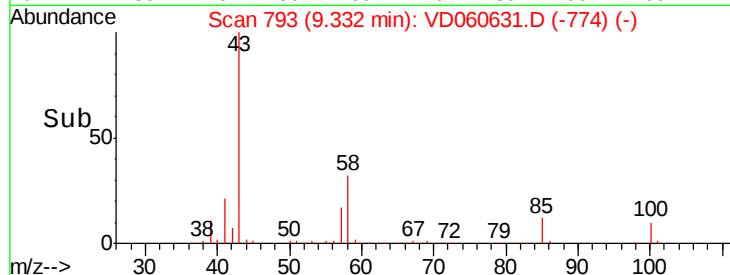
600000

400000

200000

0

Time--> 9.20 9.30 9.40



#52

Toluene

Concen: 51.411 ug/l

RT: 9.55 min Scan# 815

Delta R.T. 0.00 min

Lab File: VD060631.D

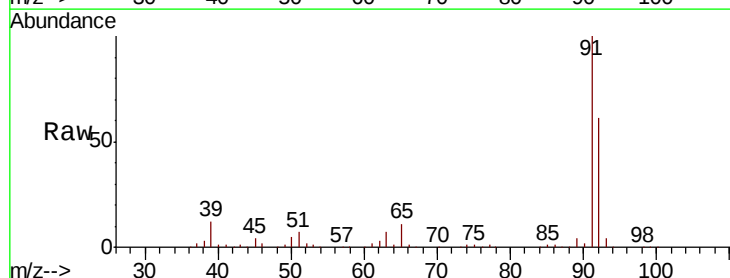
Acq: 19 Dec 2018 10:30

Tgt Ion: 92 Resp: 1740334

Ion Ratio Lower Upper

92 100

91 165.0 131.7 197.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

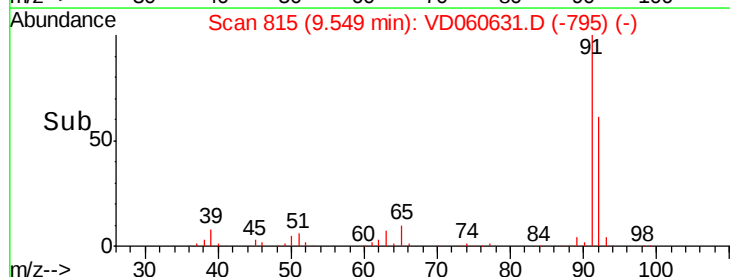
1500000

1000000

500000

0

Time--> 9.40 9.50 9.60 9.70

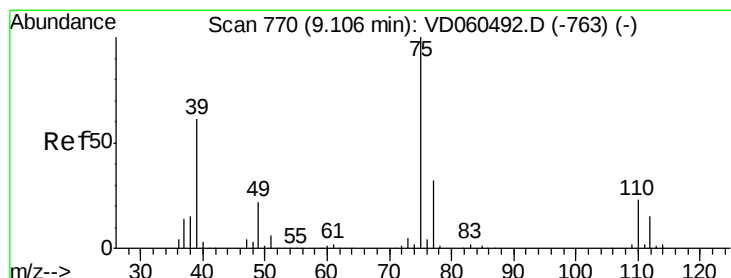
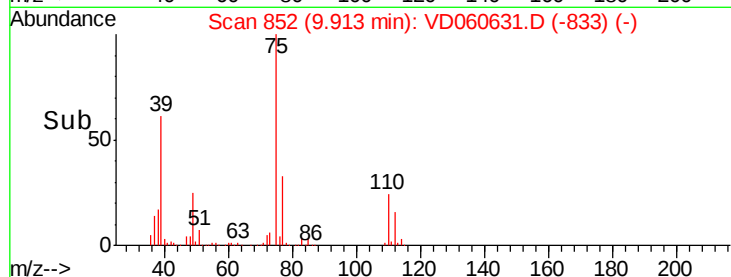
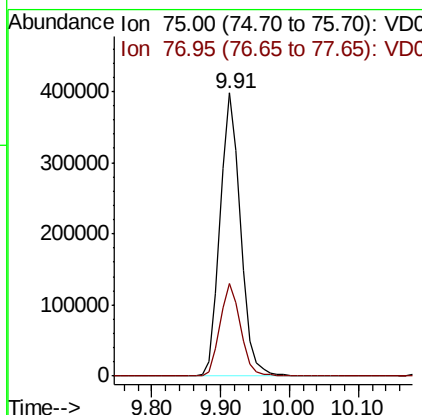
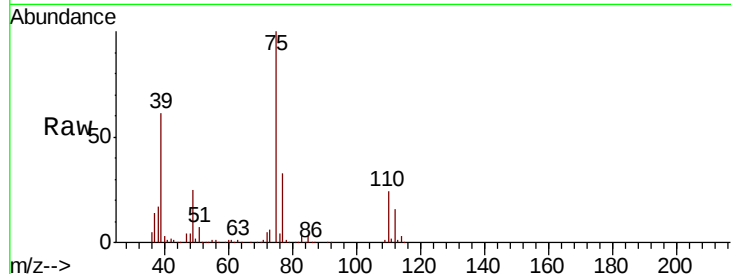




#53
t-1,3-Dichloropropene
Concen: 54.288 ug/l
RT: 9.91 min Scan# 852
Delta R.T. -0.01 min
Lab File: VD060631.D
Acq: 19 Dec 2018 10:30

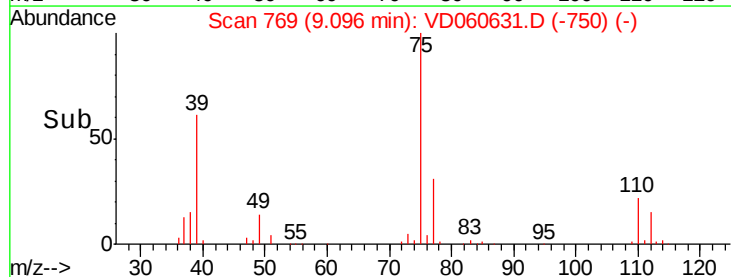
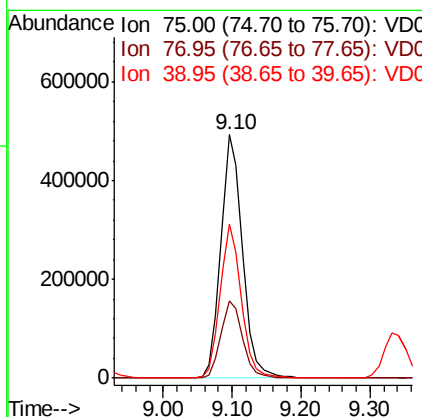
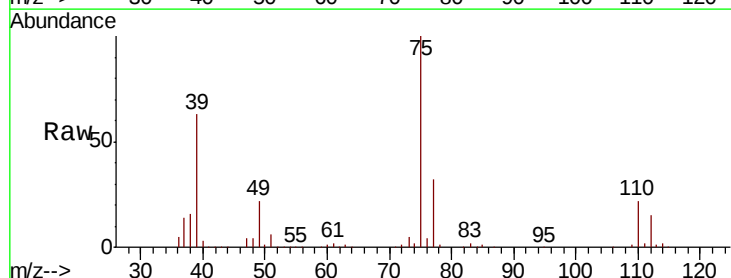
Instrument :
MSVOA_D
ClientSampleId :

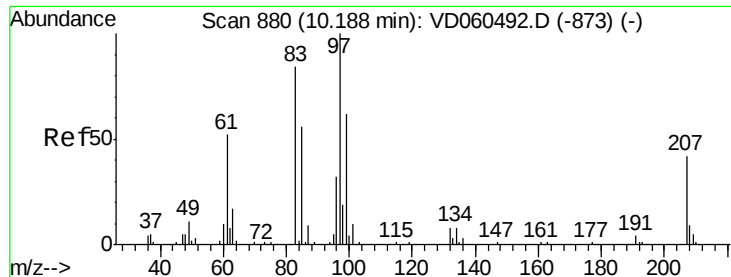
Tot Ion: 75 Resp: 819150
Ion Ratio Lower Upper
75 100
77 32.5 26.2 39.2



#54
cis-1,3-Dichloropropene
Concen: 54.328 ug/l
RT: 9.10 min Scan# 769
Delta R.T. -0.01 min
Lab File: VD060631.D
Acq: 19 Dec 2018 10:30

Tgt Ion: 75 Resp: 1077053
Ion Ratio Lower Upper
75 100
77 31.6 25.6 38.4
39 63.4 48.6 73.0





#55

1,1,2-Trichloroethane

Concen: 50.357 ug/l

RT: 10.18 min Scan# 879

Delta R.T. -0.01 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 97 Resp: 474721

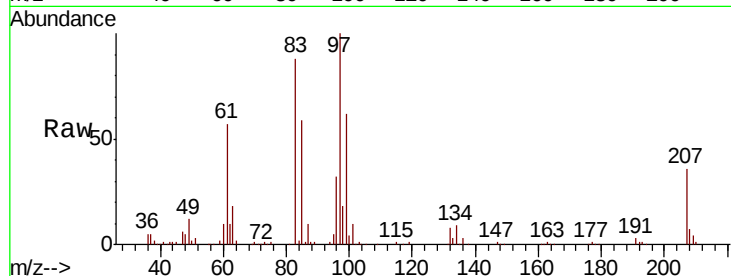
Ion Ratio Lower Upper

97 100

83 88.1 67.2 100.8

85 58.6 44.5 66.7

99 62.2 49.3 73.9

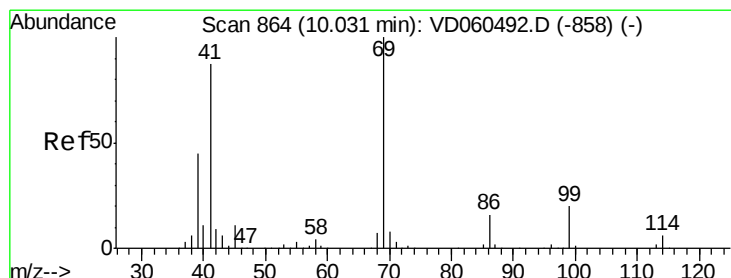
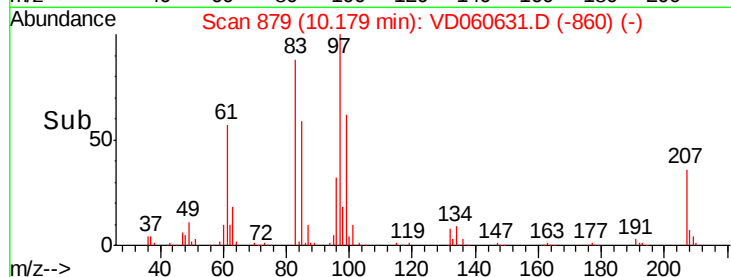
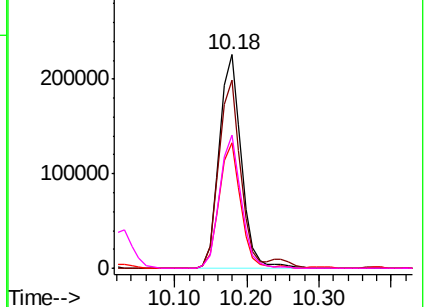


Abundance Ion 96.85 (96.55 to 97.55): VDC

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: 53.178 ug/l

RT: 10.02 min Scan# 863

Delta R.T. -0.01 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

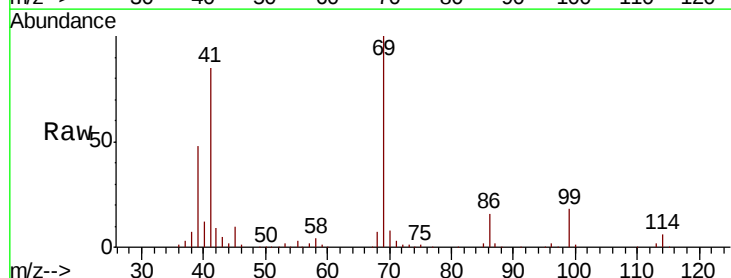
Tgt Ion: 69 Resp: 453701

Ion Ratio Lower Upper

69 100

41 85.3 69.8 104.8

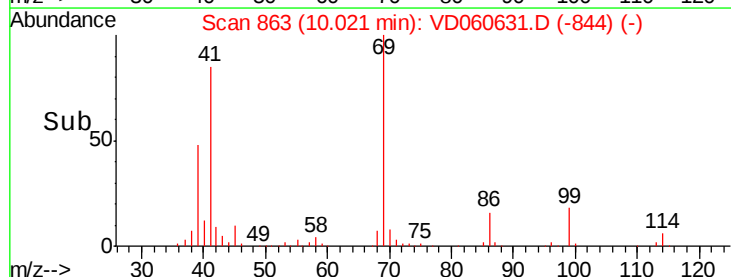
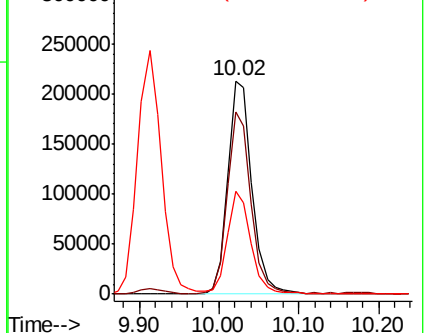
39 48.1 37.5 56.3

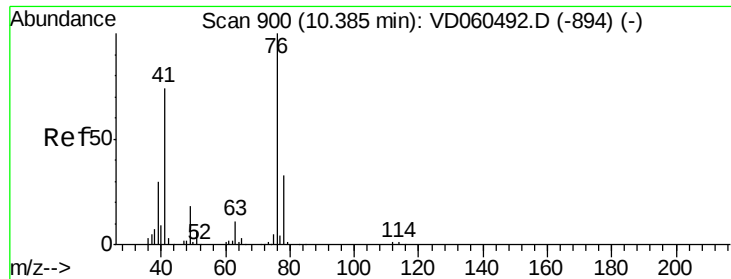


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 53.053 ug/l

RT: 10.38 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

Instrument :

MSVOA_D

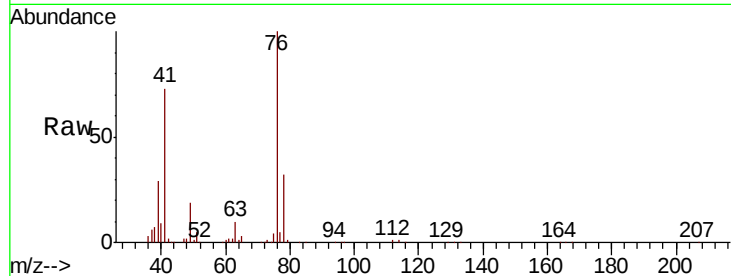
ClientSampleId :

Tot Ion: 76 Resp: 773144

Ion Ratio Lower Upper

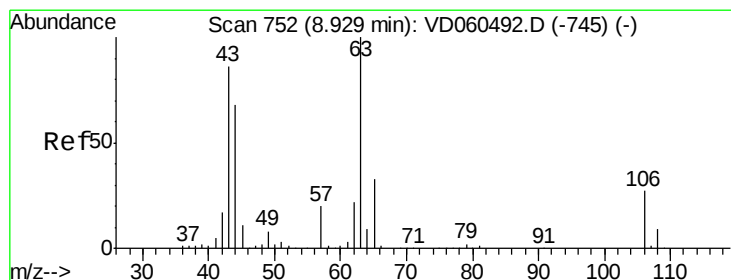
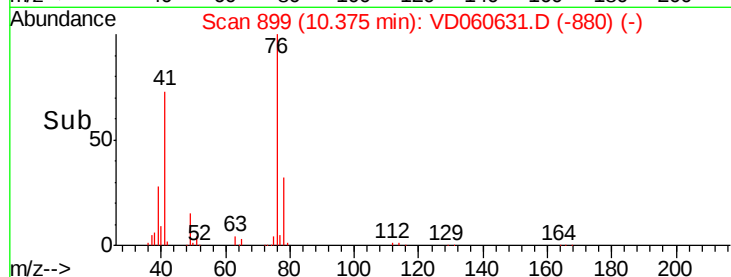
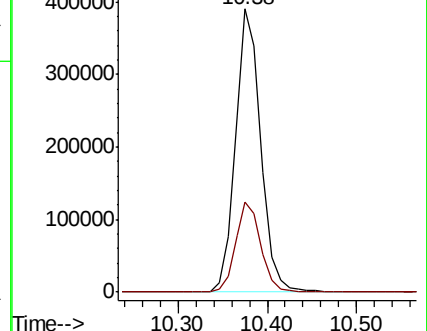
76 100

78 32.0 26.1 39.1



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: 261.208 ug/l

RT: 8.92 min Scan# 751

Delta R.T. -0.01 min

Lab File: VD060631.D

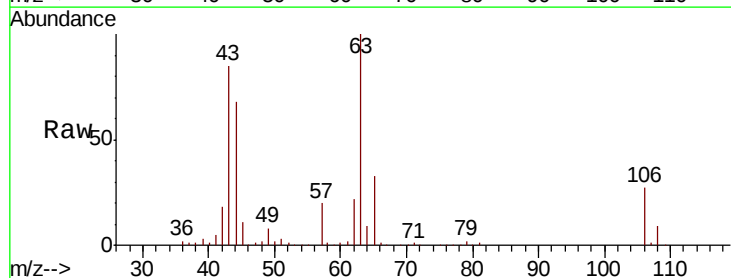
Acq: 19 Dec 2018 10:30

Tgt Ion: 63 Resp: 1333436

Ion Ratio Lower Upper

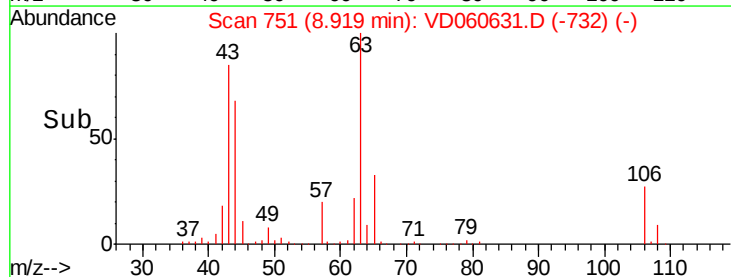
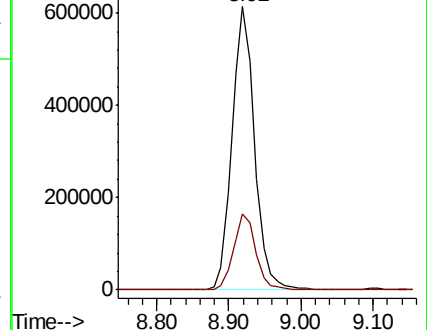
63 100

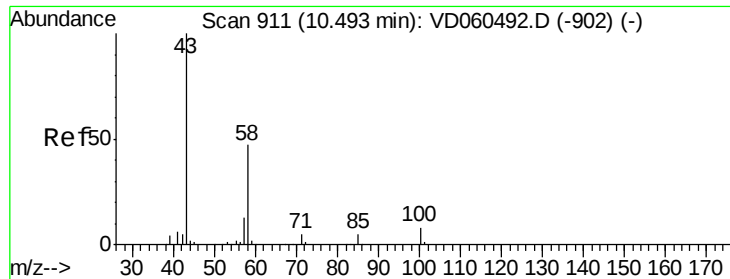
106 26.8 21.6 32.4



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

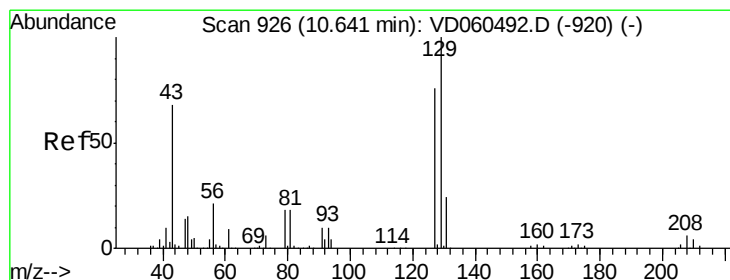
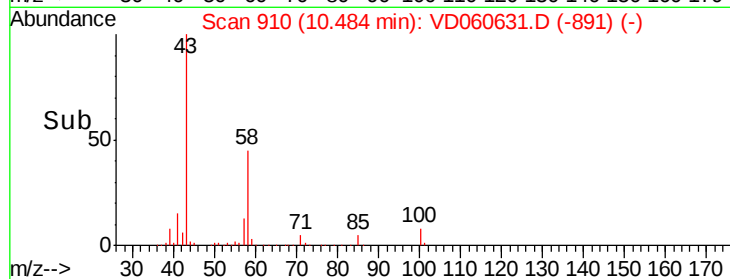
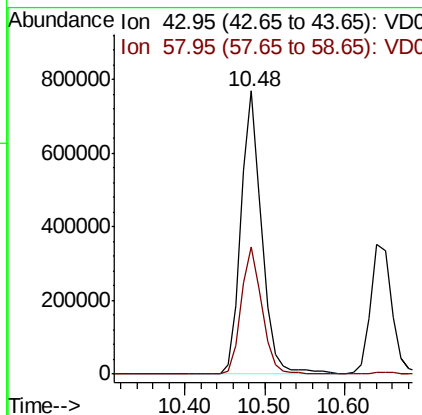
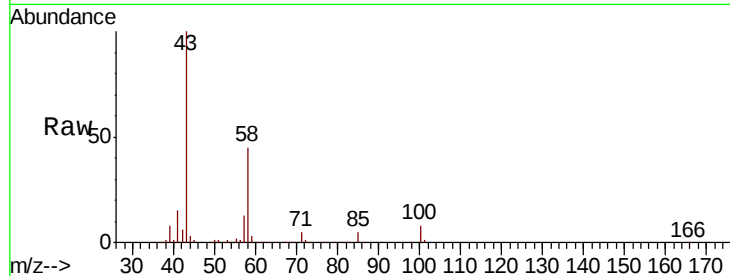




#59
2-Hexanone
Concen: 280.753 ug/l
RT: 10.48 min Scan# 910
Delta R.T. -0.01 min
Lab File: VD060631.D
Acq: 19 Dec 2018 10:30

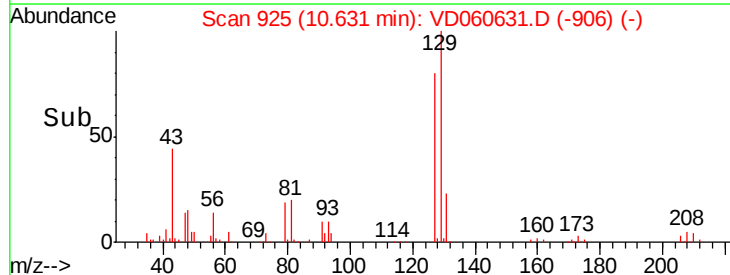
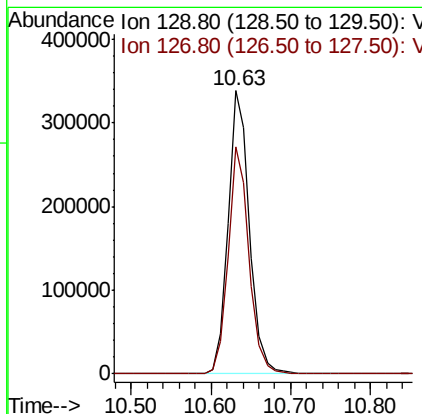
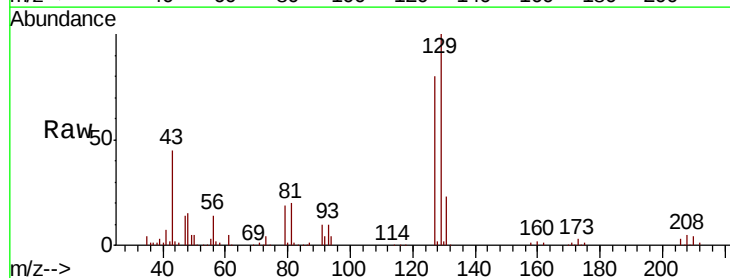
Instrument :
MSVOA_D
ClientSampled :

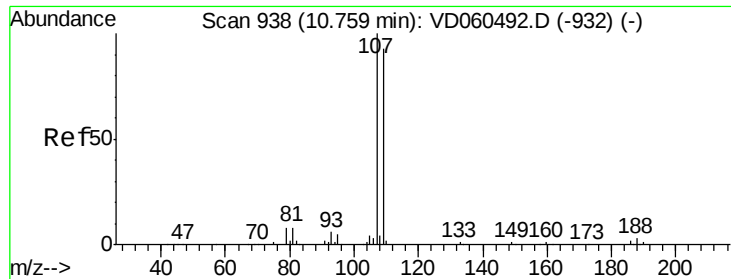
Tot Ion: 43 Resp: 1384911
Ion Ratio Lower Upper
43 100
58 45.1 23.4 70.2



#60
Dibromochloromethane
Concen: 53.895 ug/l
RT: 10.63 min Scan# 925
Delta R.T. -0.01 min
Lab File: VD060631.D
Acq: 19 Dec 2018 10:30

Tgt Ion: 129 Resp: 635223
Ion Ratio Lower Upper
129 100
127 80.0 38.1 114.3





#61

1,2-Dibromoethane

Concen: 51.265 ug/l

RT: 10.75 min Scan# 937

Delta R.T. -0.01 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

Instrument :

MSVOA_D

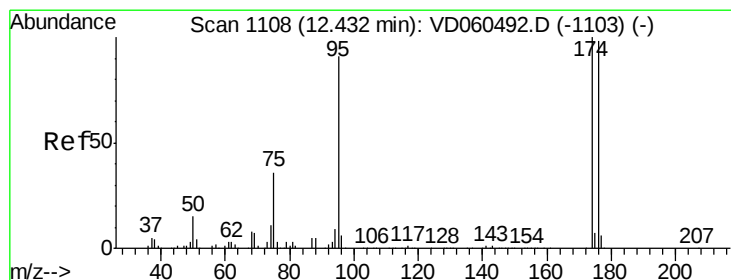
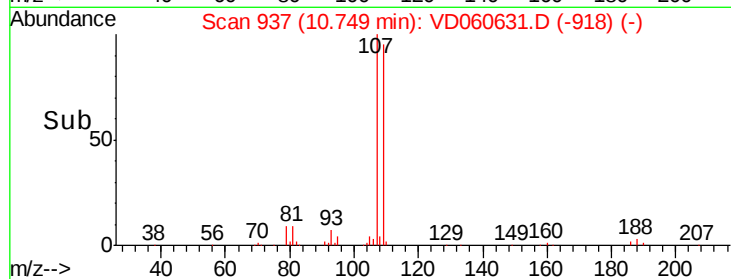
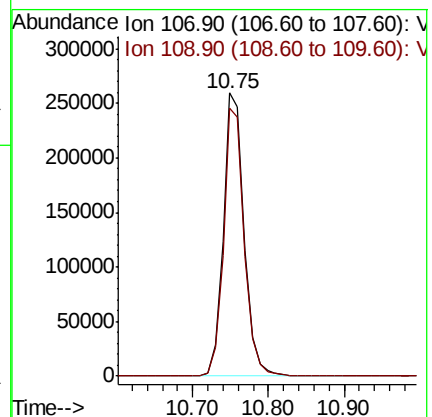
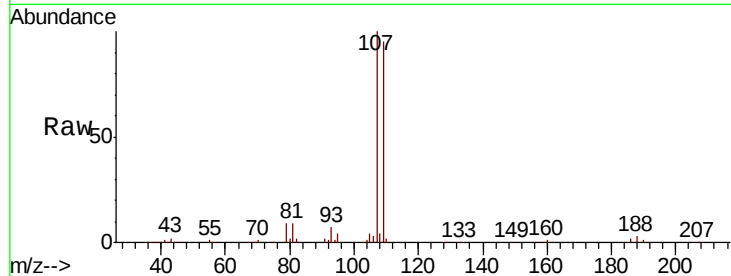
ClientSampled :

Tot Ion:107 Resp: 492512

Ion Ratio Lower Upper

107 100

109 94.7 74.7 112.1



#62

4-Bromofluorobenzene

Concen: 51.265 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. -0.01 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

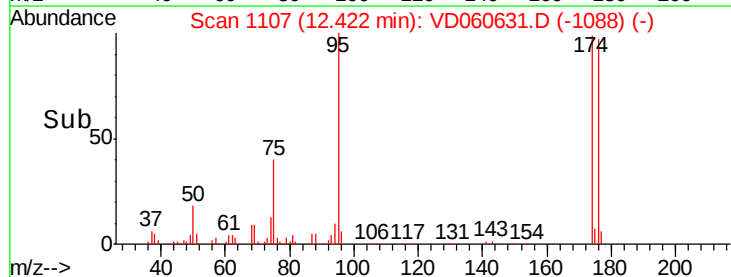
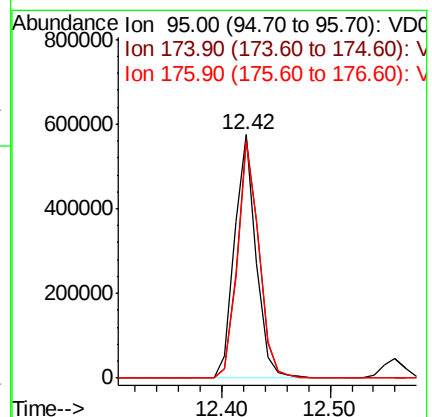
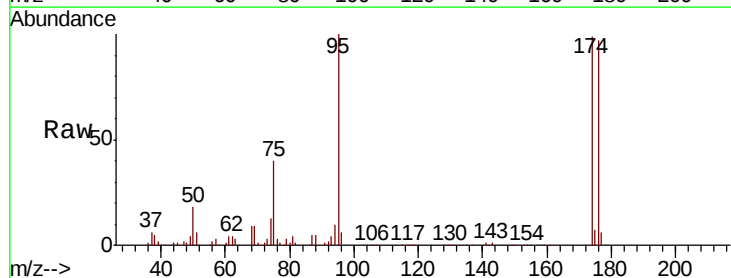
Tgt Ion: 95 Resp: 793405

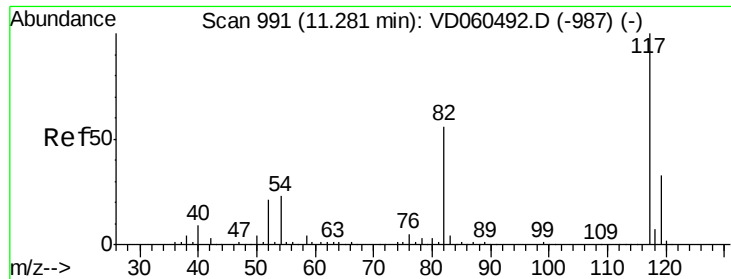
Ion Ratio Lower Upper

95 100

174 98.7 0.0 219.4

176 97.1 0.0 214.6

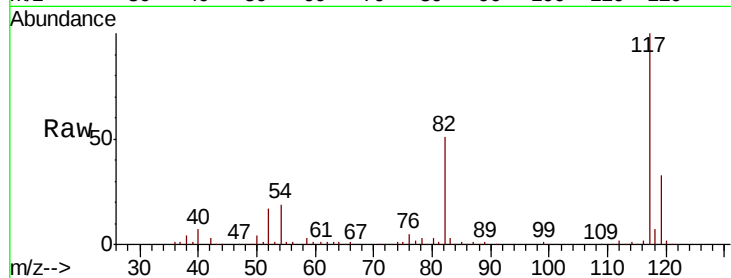




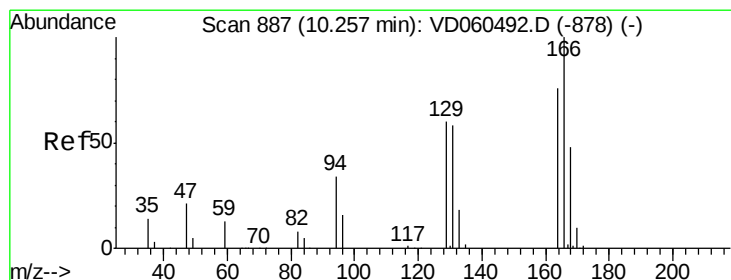
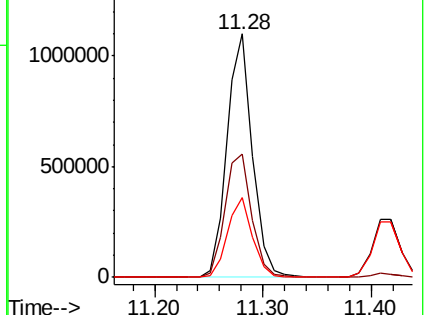
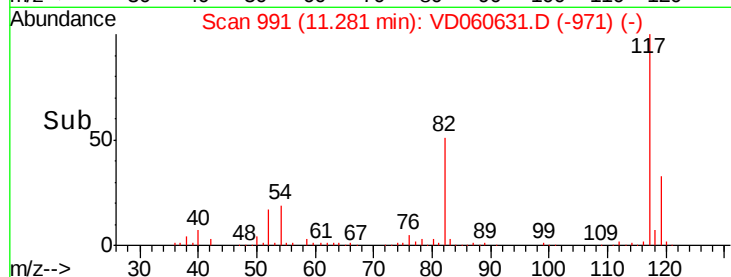
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.28 min Scan# 991
Delta R.T. 0.00 min
Lab File: VD060631.D
Acq: 19 Dec 2018 10:30

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 1794676
Ion Ratio Lower Upper
117 100
82 50.8 45.2 67.8
119 32.8 26.1 39.1

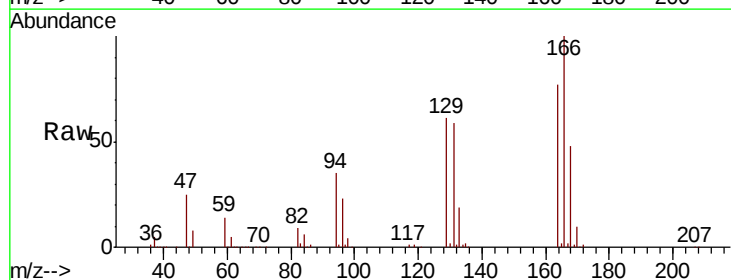


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

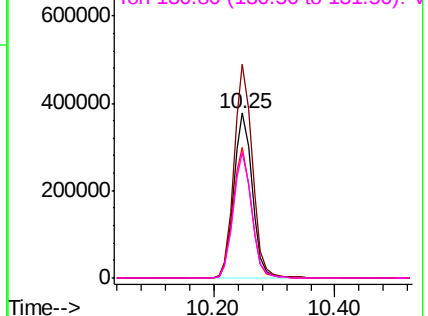
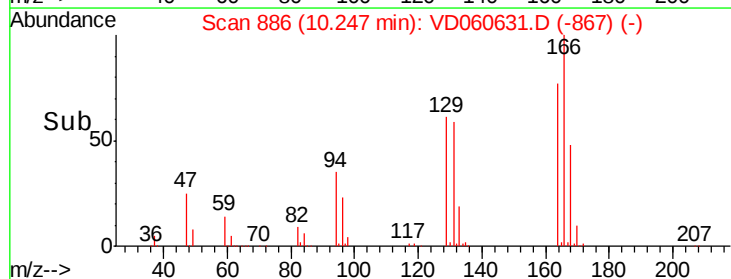


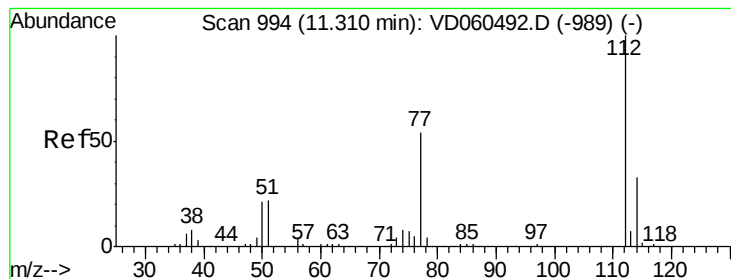
#64
Tetrachloroethene
Concen: 50.470 ug/l
RT: 10.25 min Scan# 886
Delta R.T. -0.01 min
Lab File: VD060631.D
Acq: 19 Dec 2018 10:30

Tgt Ion:164 Resp: 802054
Ion Ratio Lower Upper
164 100
166 129.5 105.0 157.6
129 79.5 63.0 94.4
131 76.2 60.6 90.8



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: 48.839 ug/l

RT: 11.31 min Scan# 994

Delta R.T. 0.00 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

Instrument :

MSVOA_D

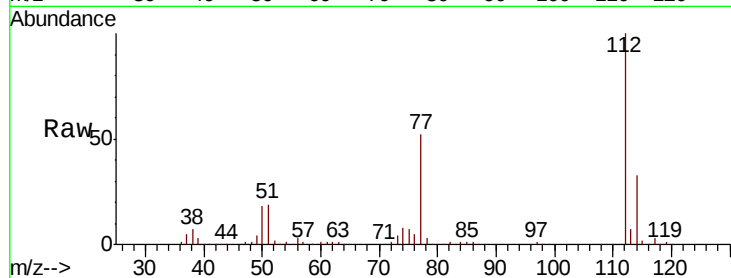
ClientSampleId :

Tot Ion:112 Resp: 1854300

Ion Ratio Lower Upper

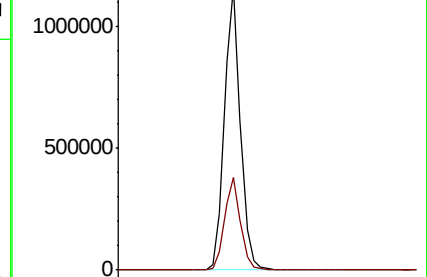
112 100

114 32.6 26.2 39.4

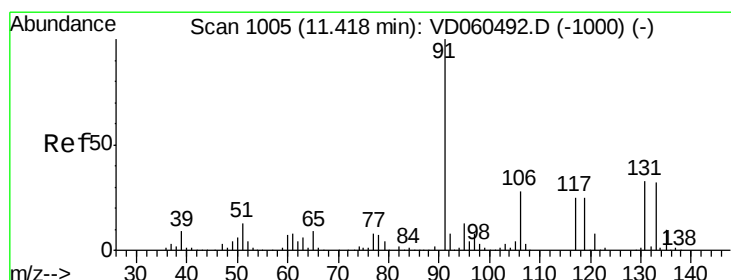
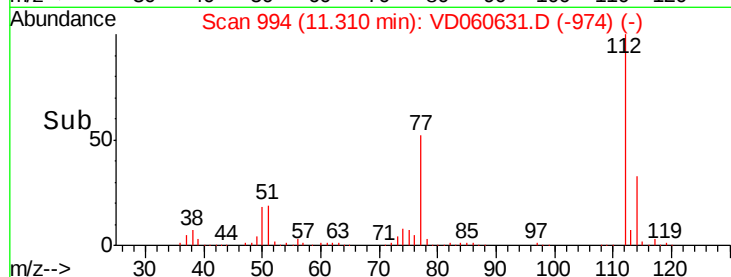


Abundance Ion 111.90 (111.60 to 112.60): V

Ion 114.00 (113.70 to 114.70): V



Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 53.227 ug/l

RT: 11.42 min Scan# 1005

Delta R.T. 0.00 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

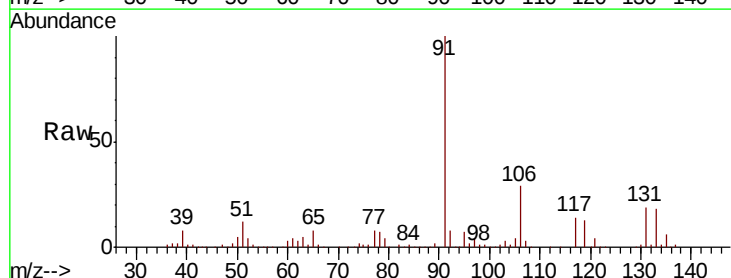
Tgt Ion:131 Resp: 651360

Ion Ratio Lower Upper

131 100

133 95.6 49.1 147.3

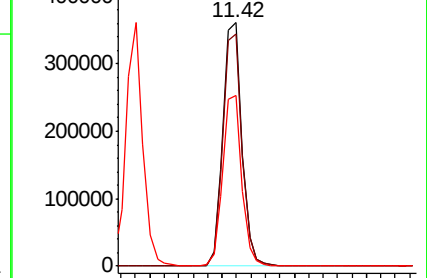
119 70.1 37.5 112.3



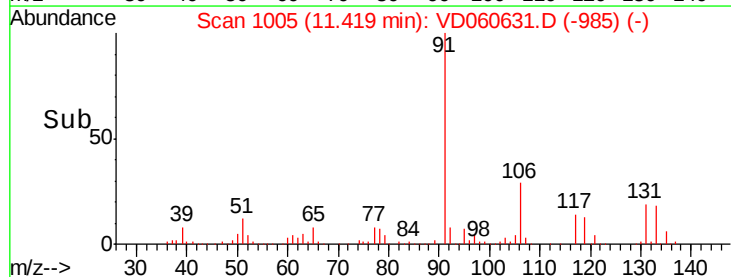
Abundance Ion 130.90 (130.60 to 131.60): V

Ion 132.90 (132.60 to 133.60): V

Ion 118.85 (118.55 to 119.55): V



Time-->

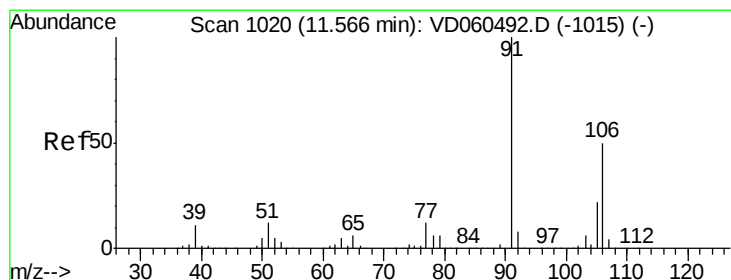
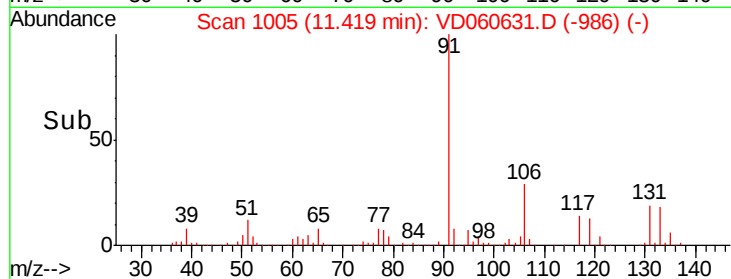
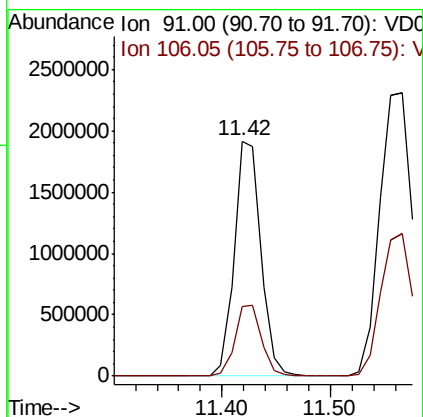
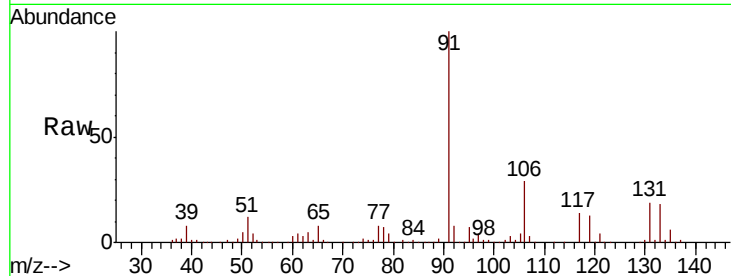




#67
Ethyl Benzene
Concen: 50.591 ug/l
RT: 11.42 min Scan# 1005
Delta R.T. -0.01 min
Lab File: VD060631.D
Acq: 19 Dec 2018 10:30

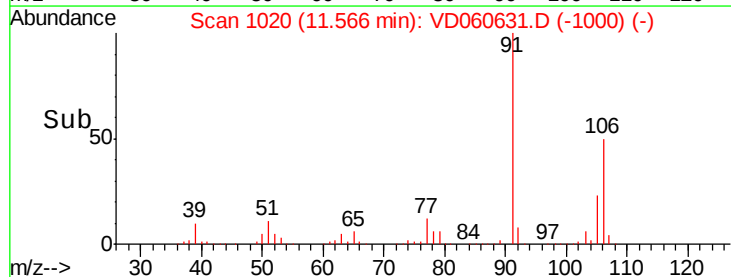
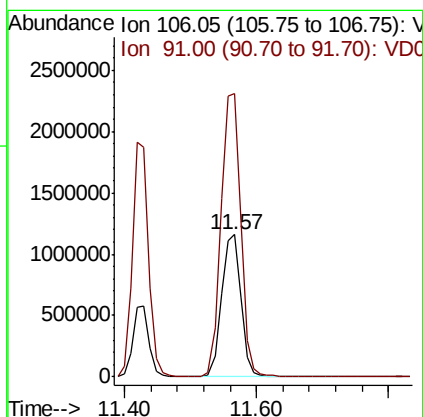
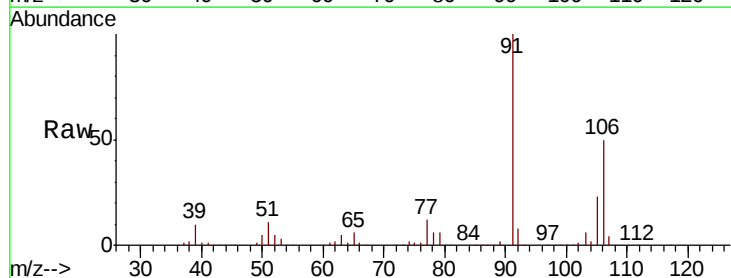
Instrument :
MSVOA_D
ClientSampled :

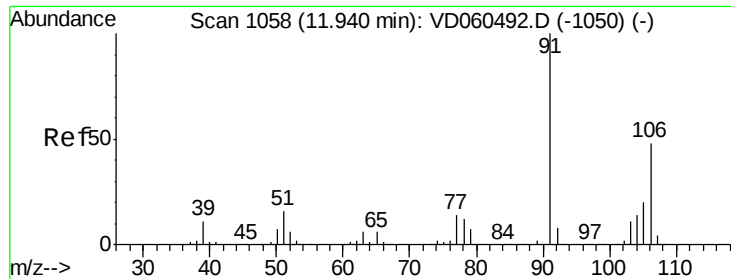
Tot Ion: 91 Resp: 3276350
Ion Ratio Lower Upper
91 100
106 29.4 24.6 37.0



#68
m/p-Xylenes
Concen: 98.942 ug/l
RT: 11.57 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VD060631.D
Acq: 19 Dec 2018 10:30

Tgt Ion: 106 Resp: 2370534
Ion Ratio Lower Upper
106 100
91 199.3 160.5 240.7

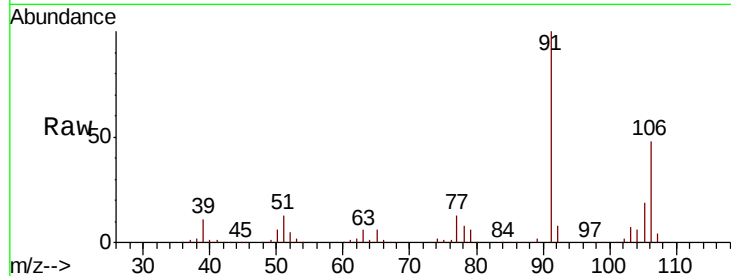




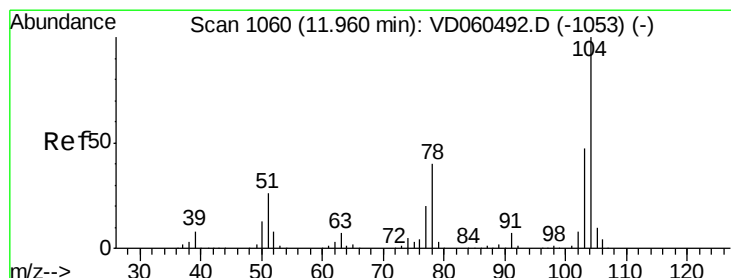
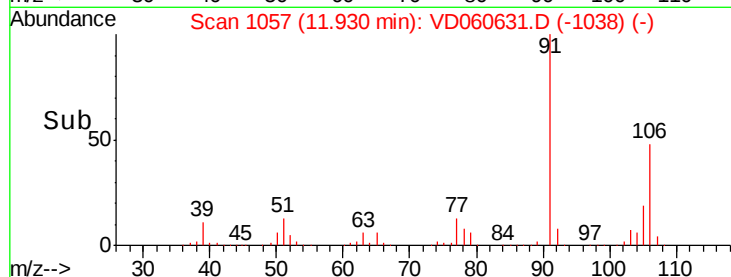
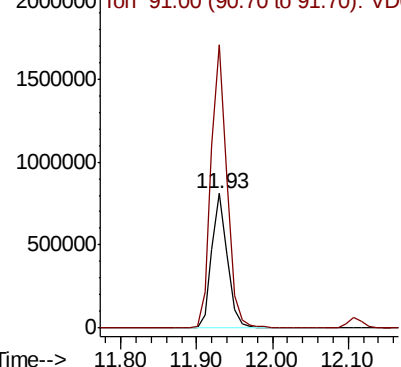
#69
o-Xylene
Concen: 50.973 ug/l
RT: 11.93 min Scan# 1057
Delta R.T. -0.01 min
Lab File: VD060631.D
Acq: 19 Dec 2018 10:30

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:106 Resp: 1163868
Ion Ratio Lower Upper
106 100
91 210.5 103.4 310.1

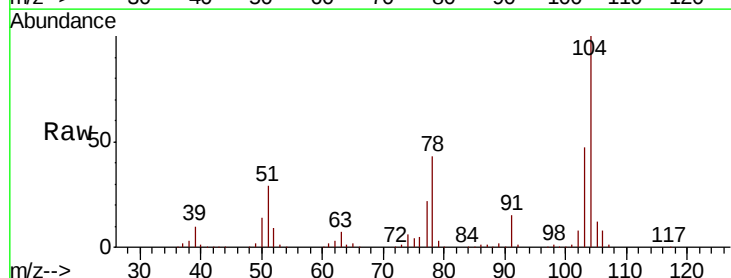


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

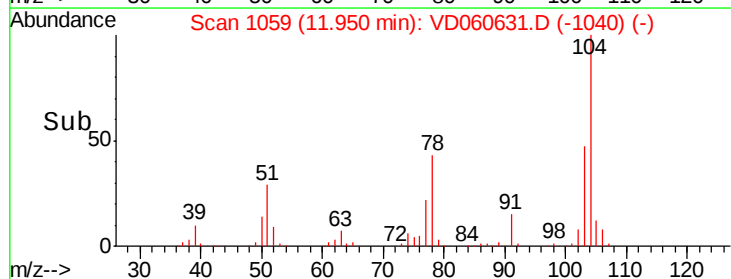
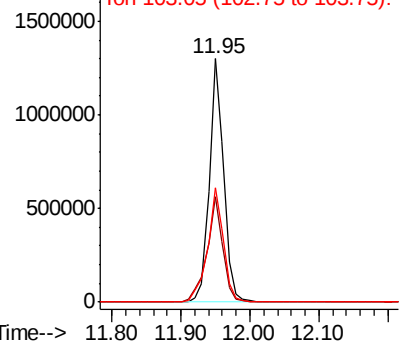


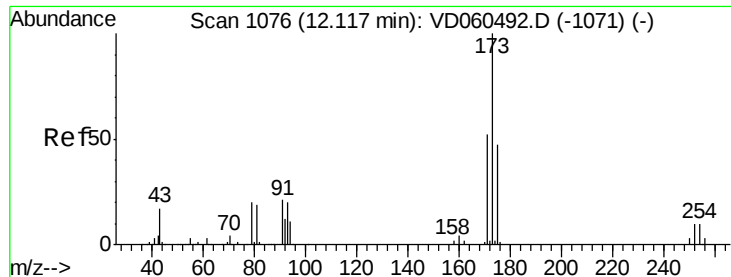
#70
Styrene
Concen: 50.980 ug/l
RT: 11.95 min Scan# 1059
Delta R.T. -0.01 min
Lab File: VD060631.D
Acq: 19 Dec 2018 10:30

Tgt Ion:104 Resp: 1868403
Ion Ratio Lower Upper
104 100
78 43.1 32.1 48.1
103 47.2 37.2 55.8



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





#71

Bromoform

Concen: 51.051 ug/l

RT: 12.11 min Scan# 1075

Delta R.T. -0.01 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

Instrument :

MSVOA_D

ClientSampleId :

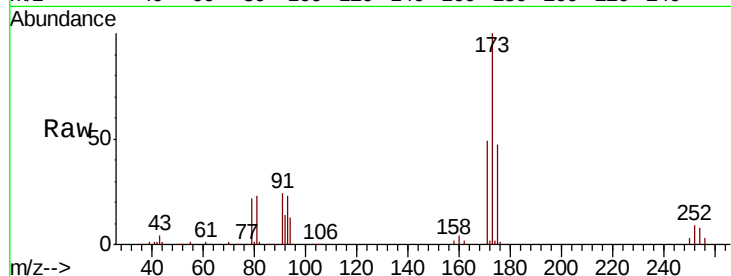
Tot Ion:173 Resp: 416805

Ion Ratio Lower Upper

173 100

175 46.8 23.5 70.6

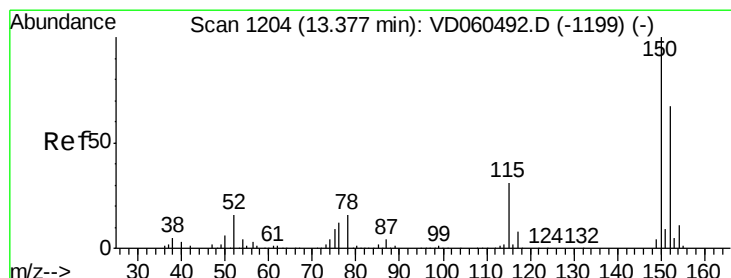
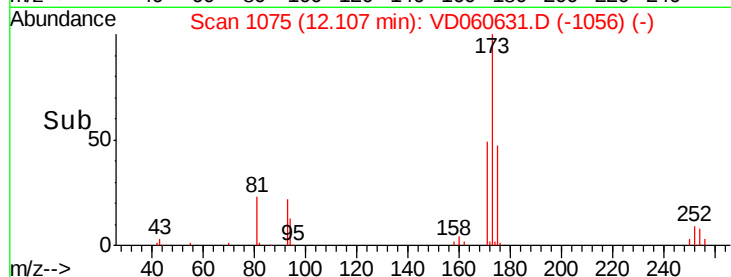
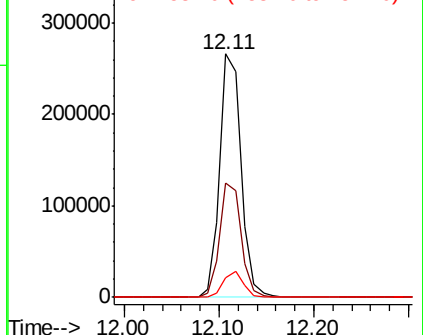
254 8.1 7.8 11.8



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: 13.37 min Scan# 1203

Delta R.T. -0.01 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

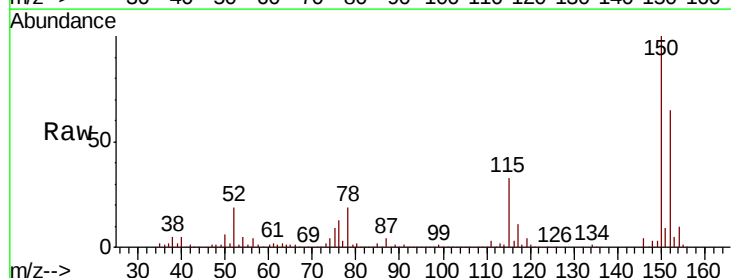
Tgt Ion:152 Resp: 948541

Ion Ratio Lower Upper

152 100

115 51.1 24.6 74.0

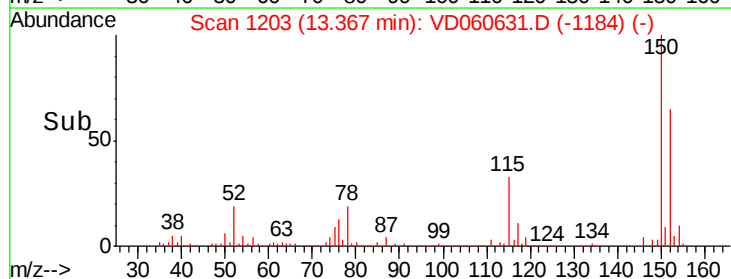
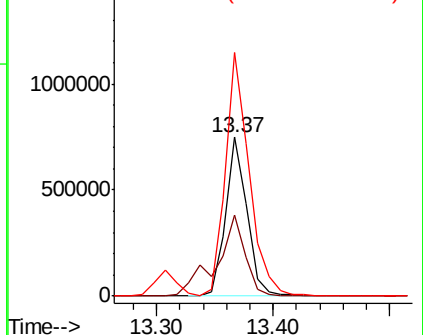
150 153.5 0.0 309.0

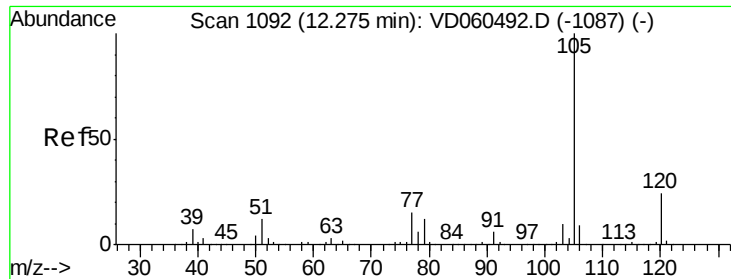


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 46.624 ug/l

RT: 12.27 min Scan# 1092

Delta R.T. 0.00 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

Instrument :

MSVOA_D

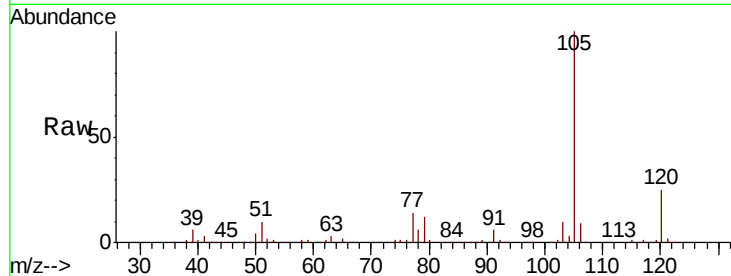
ClientSampleId :

Tot Ion:105 Resp: 3129475

Ion Ratio Lower Upper

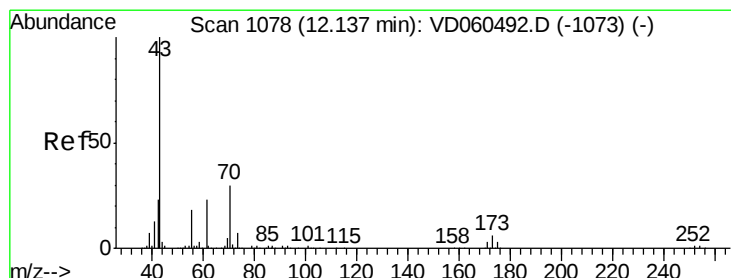
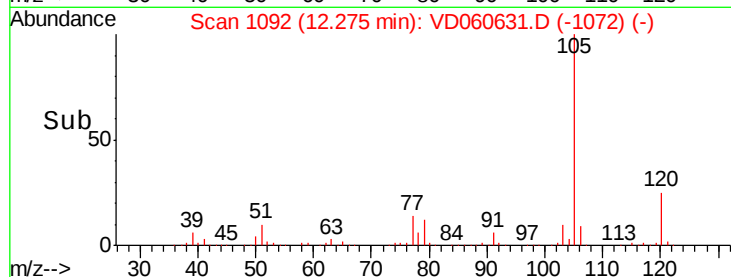
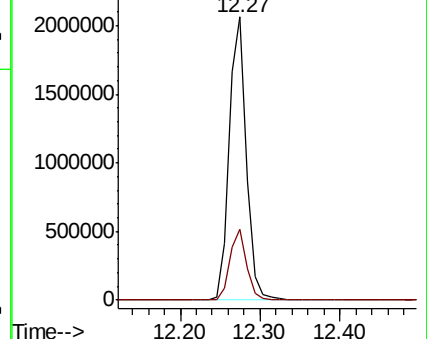
105 100

120 25.3 11.9 35.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 45.922 ug/l

RT: 12.13 min Scan# 1077

Delta R.T. -0.01 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

Tgt Ion: 43 Resp: 744951

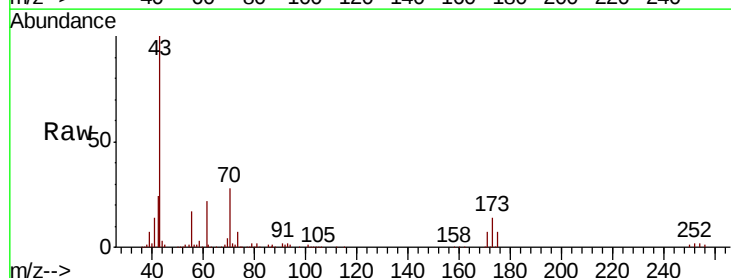
Ion Ratio Lower Upper

43 100

70 28.2 23.8 35.8

55 17.0 14.2 21.2

61 22.0 18.1 27.1

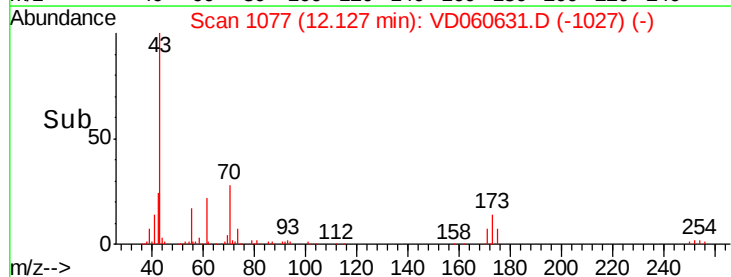
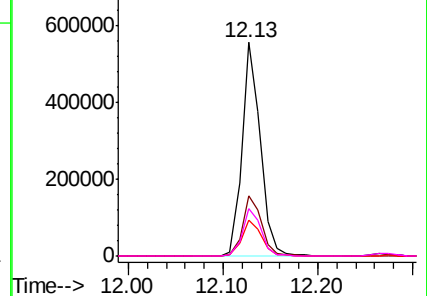


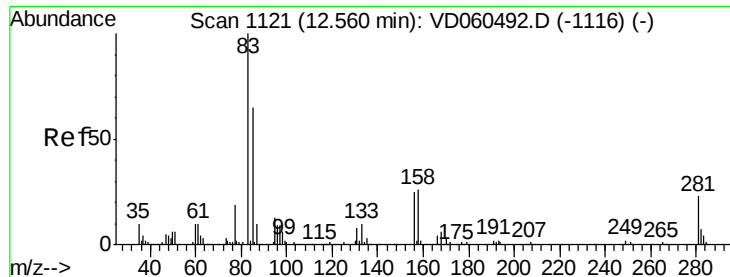
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 45.655 ug/l

RT: 12.56 min Scan# 1121

Delta R.T. 0.00 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

Instrument :

MSVOA_D

ClientSampleId :

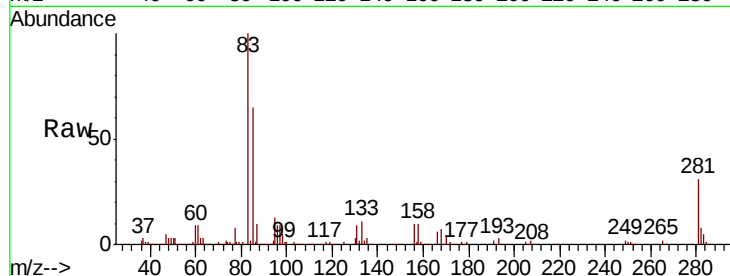
Tot Ion: 83 Resp: 490599

Ion Ratio Lower Upper

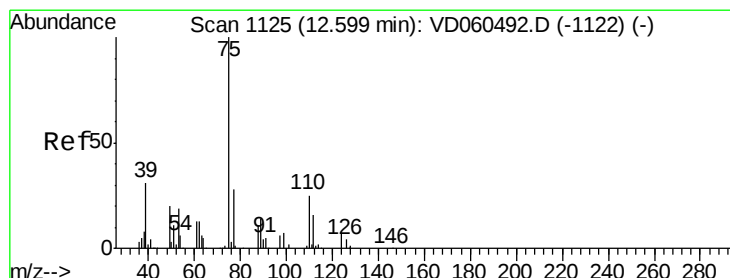
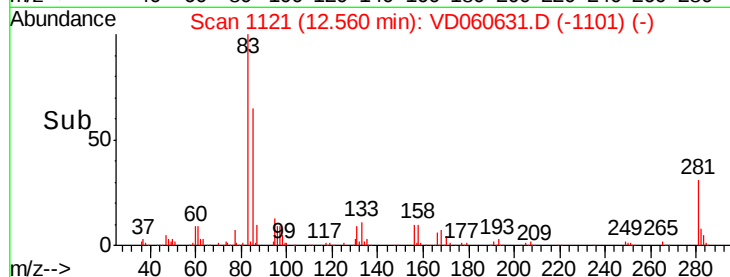
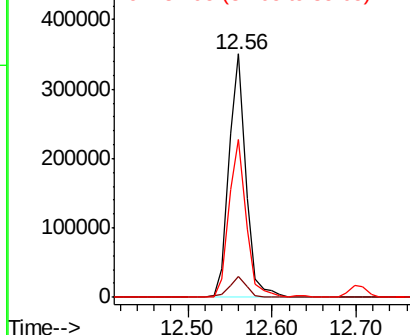
83 100

131 8.8 3.8 11.4

85 64.8 32.3 96.9



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: 46.691 ug/l

RT: 12.59 min Scan# 1124

Delta R.T. -0.01 min

Lab File: VD060631.D

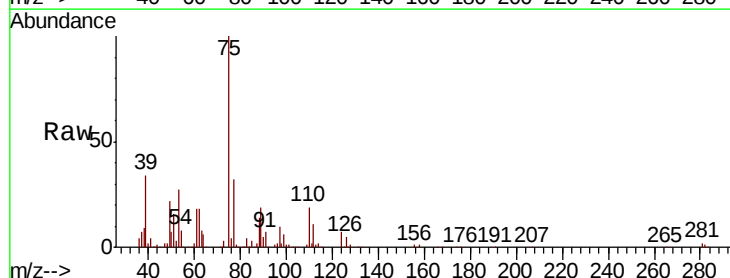
Acq: 19 Dec 2018 10:30

Tgt Ion: 75 Resp: 501810

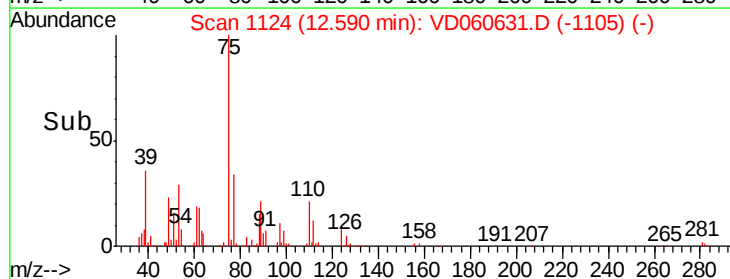
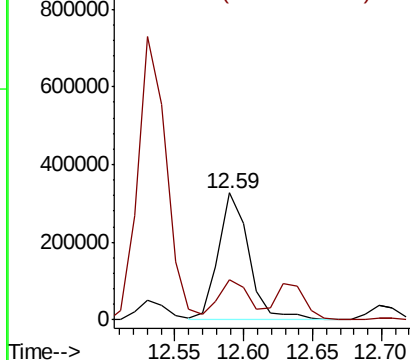
Ion Ratio Lower Upper

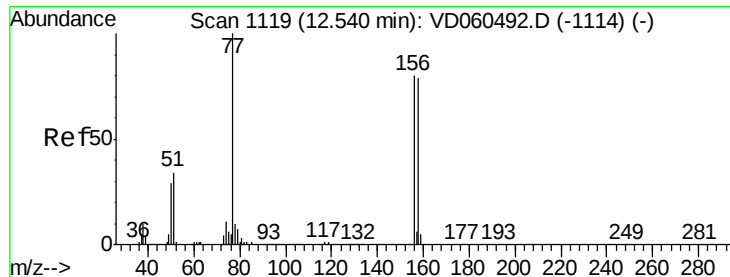
75 100

77 32.0 16.4 49.4



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 48.402 ug/l

RT: 12.54 min Scan# 1119

Delta R.T. 0.00 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

Instrument :

MSVOA_D

ClientSampled :

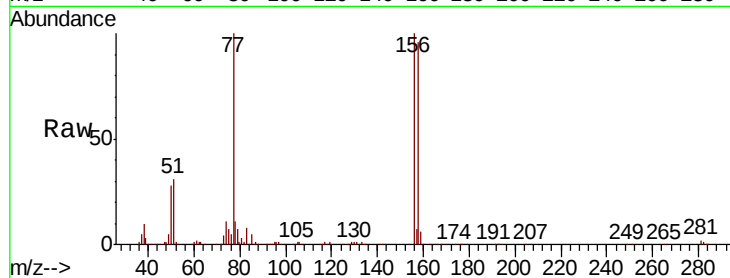
Tot Ion:156 Resp: 853983

Ion Ratio Lower Upper

156 100

77 99.8 62.5 187.6

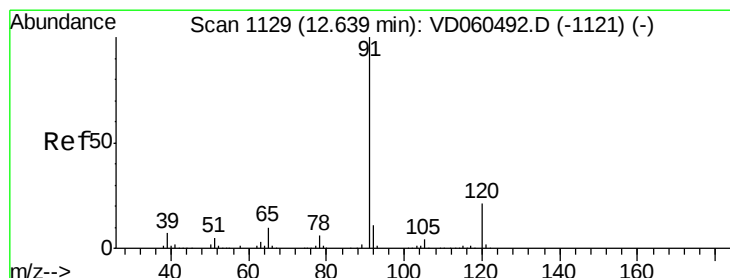
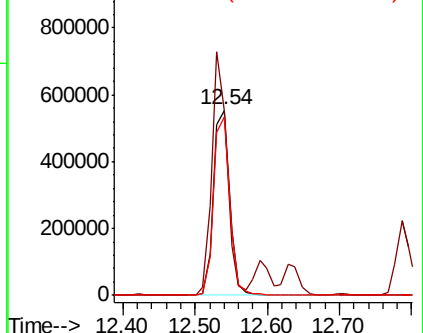
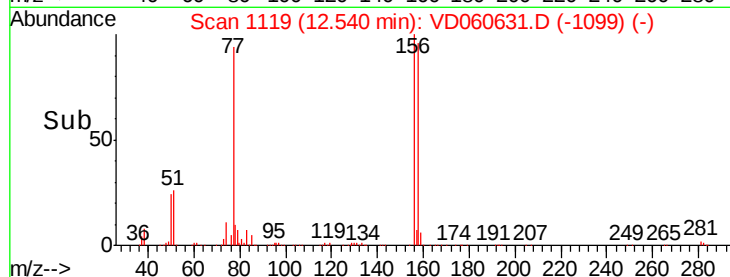
158 96.1 49.4 148.2



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 46.962 ug/l

RT: 12.63 min Scan# 1128

Delta R.T. -0.01 min

Lab File: VD060631.D

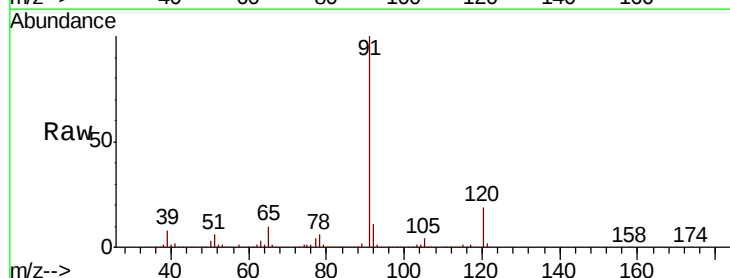
Acq: 19 Dec 2018 10:30

Tgt Ion: 91 Resp: 3984620

Ion Ratio Lower Upper

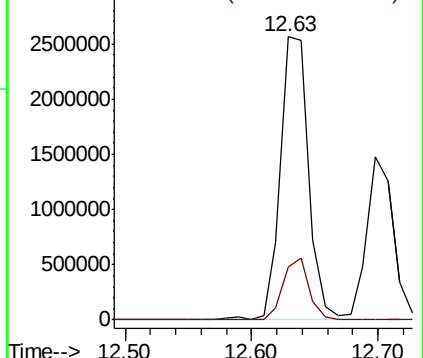
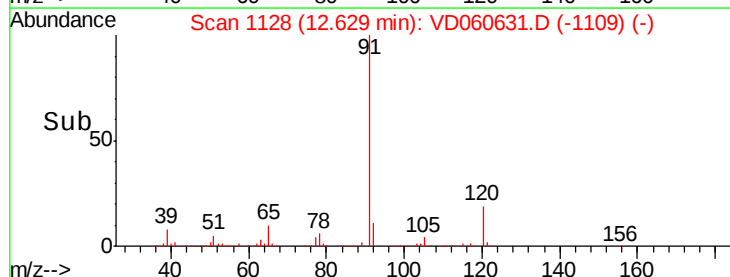
91 100

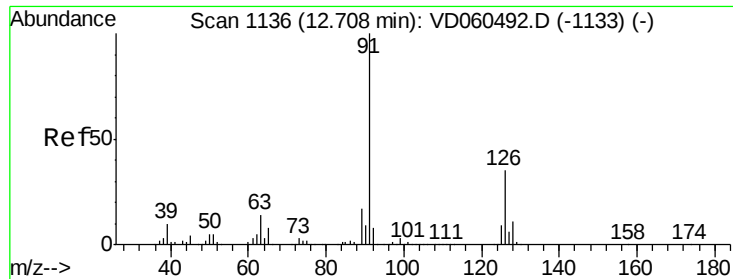
120 18.9 10.4 31.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

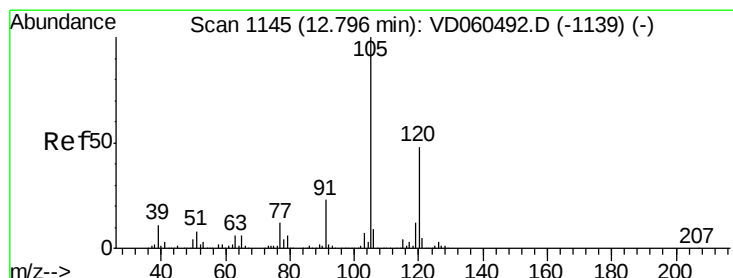
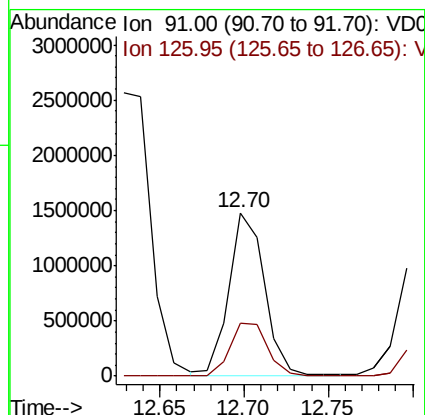
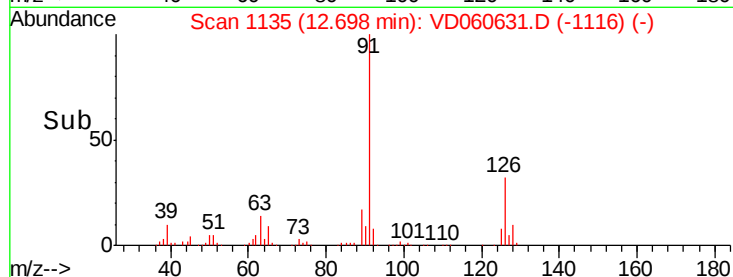
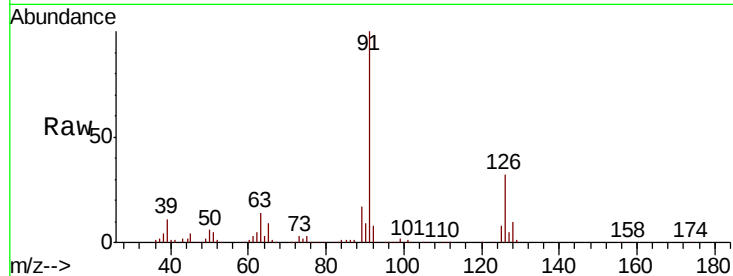




#79
 2-Chlorotoluene
 Concen: 47.240 ug/l
 RT: 12.70 min Scan# 1135
 Delta R.T. -0.01 min
 Lab File: VD060631.D
 Acq: 19 Dec 2018 10:30

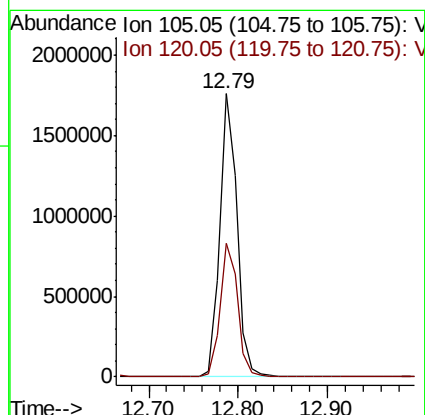
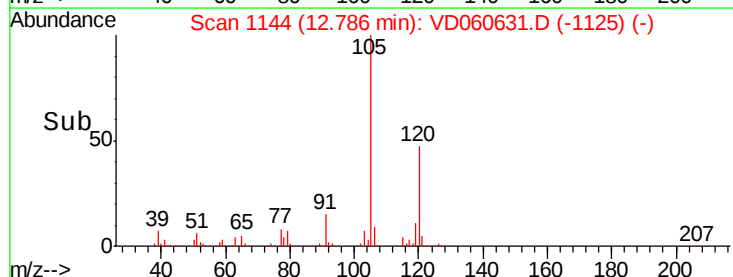
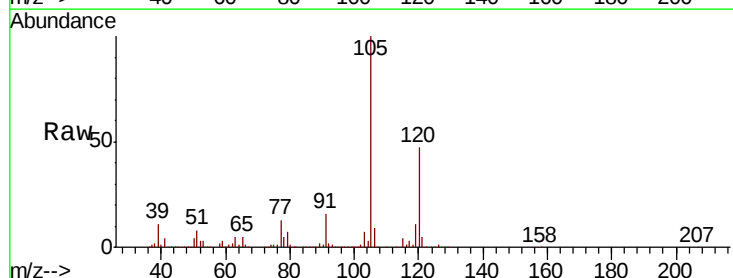
Instrument :
 MSVOA_D
 ClientSampled :

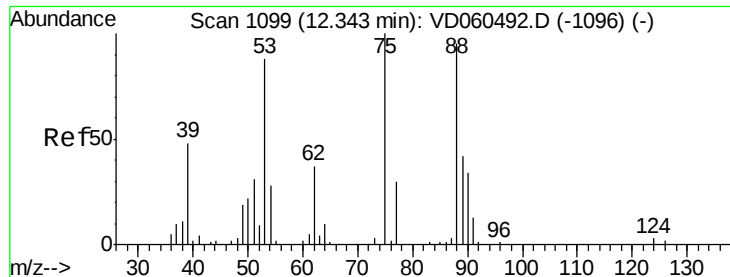
Tot Ion: 91 Resp: 2174993
 Ion Ratio Lower Upper
 91 100
 126 32.2 17.3 52.0



#80
 1,3,5-Trimethylbenzene
 Concen: 46.099 ug/l
 RT: 12.79 min Scan# 1144
 Delta R.T. -0.01 min
 Lab File: VD060631.D
 Acq: 19 Dec 2018 10:30

Tgt Ion: 105 Resp: 2364381
 Ion Ratio Lower Upper
 105 100
 120 47.4 24.2 72.6





#81

trans-1,4-Dichloro-2-butene

Concen: 49.561 ug/l

RT: 12.33 min Scan# 1098

Delta R.T. -0.01 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

Instrument :

MSVOA_D

ClientSampleId :

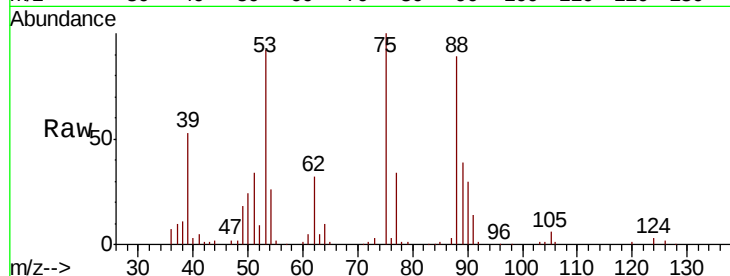
Tot Ion: 75 Resp: 148560

Ion Ratio Lower Upper

75 100

53 92.1 70.5 105.7

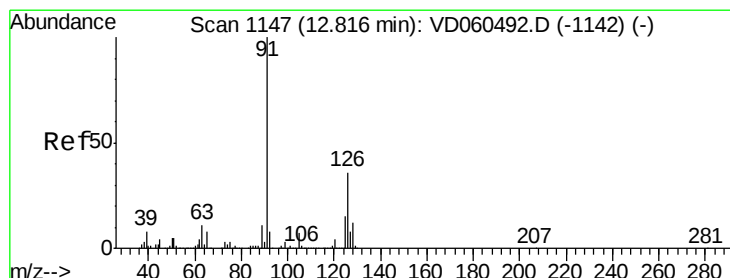
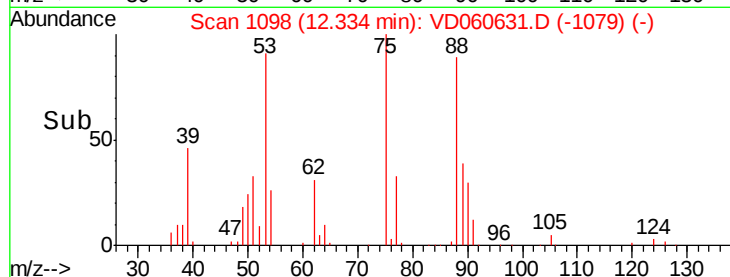
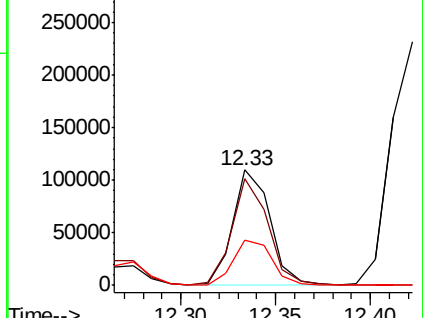
89 38.9 33.6 50.4



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: 46.211 ug/l

RT: 12.81 min Scan# 1146

Delta R.T. -0.01 min

Lab File: VD060631.D

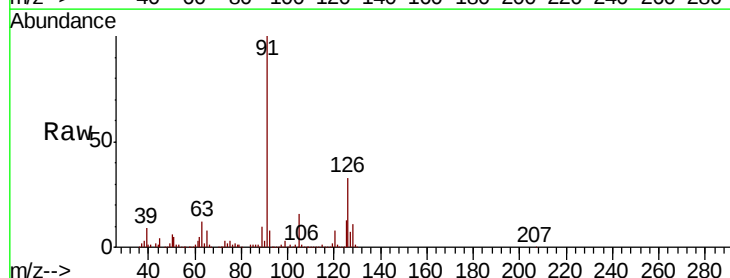
Acq: 19 Dec 2018 10:30

Tgt Ion: 91 Resp: 2389663

Ion Ratio Lower Upper

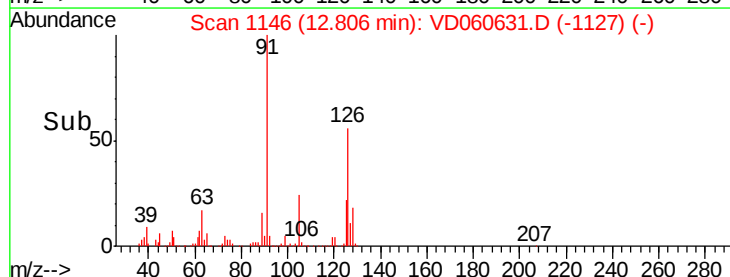
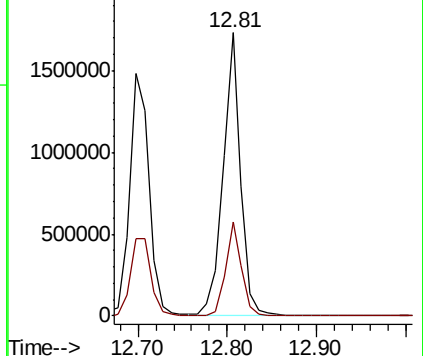
91 100

126 33.3 17.8 53.4



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V





#83

tert-Butylbenzene

Concen: 47.898 ug/l

RT: 13.04 min Scan# 1170

Delta R.T. -0.01 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

Instrument :

MSVOA_D

ClientSampleId :

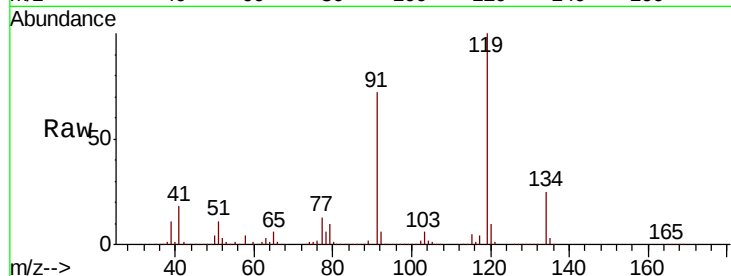
Tot Ion:119 Resp: 2754503

Ion Ratio Lower Upper

119 100

91 72.2 33.1 99.2

134 24.5 12.0 36.0



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

13.04

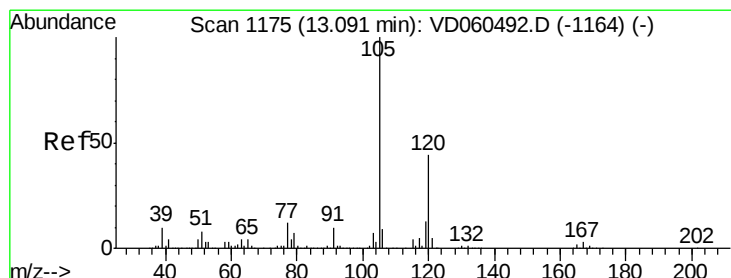
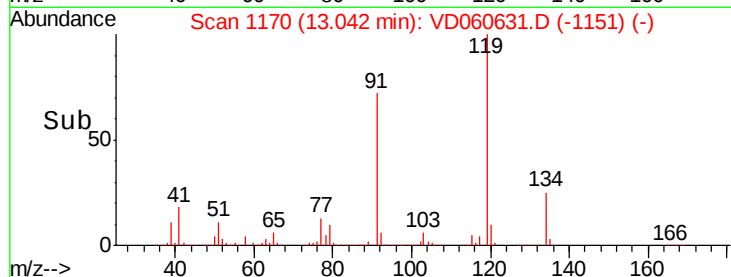
1500000

1000000

500000

0

Time--> 12.90 13.00 13.10 13.20



#84

1,2,4-Trimethylbenzene

Concen: 46.514 ug/l

RT: 13.09 min Scan# 1175

Delta R.T. 0.00 min

Lab File: VD060631.D

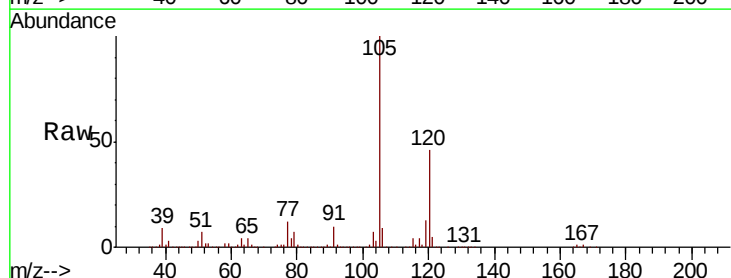
Acq: 19 Dec 2018 10:30

Tgt Ion:105 Resp: 2470230

Ion Ratio Lower Upper

105 100

120 46.0 22.3 66.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

3000000

2500000

2000000

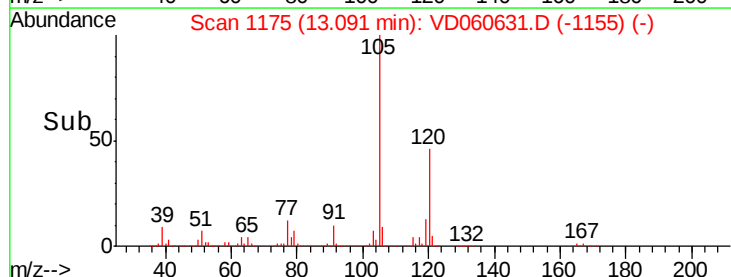
1500000

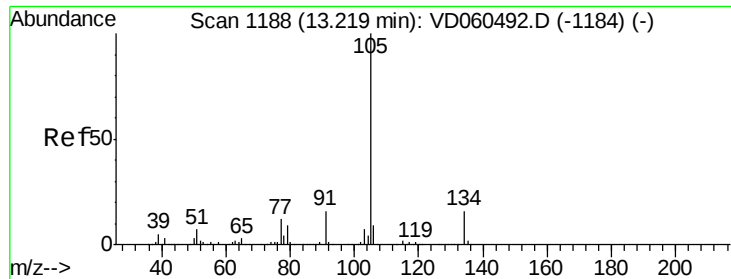
1000000

500000

0

Time--> 12.90 13.00 13.10 13.20





#85

sec-Butylbenzene

Concen: 47.069 ug/l

RT: 13.22 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

Instrument :

MSVOA_D

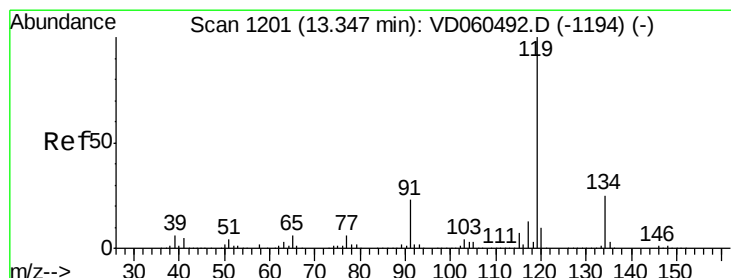
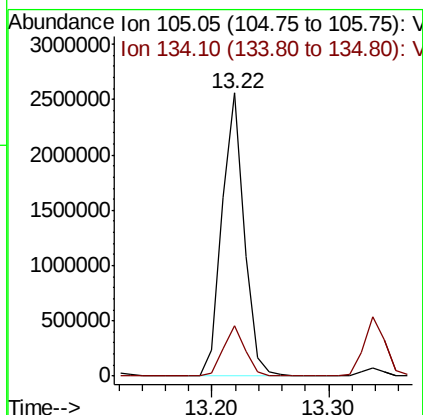
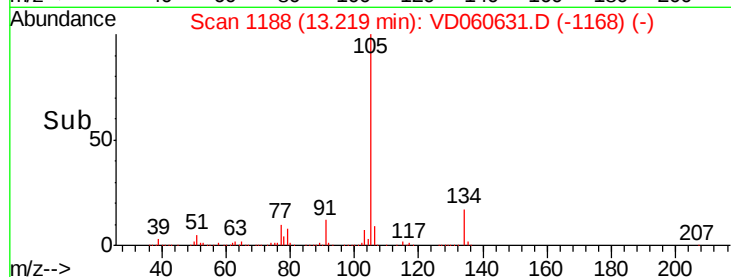
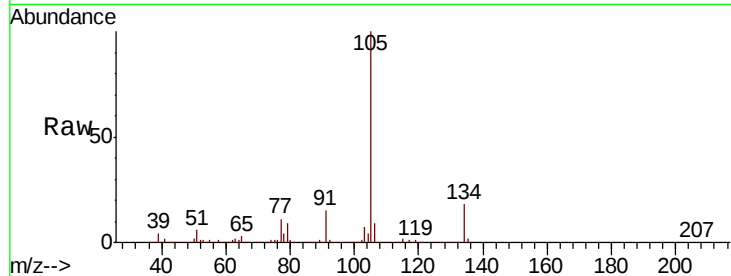
ClientSampled :

Tot Ion:105 Resp: 3373685

Ion Ratio Lower Upper

105 100

134 18.0 7.9 23.7



#86

p-Isopropyltoluene

Concen: 47.948 ug/l

RT: 13.34 min Scan# 1200

Delta R.T. -0.01 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

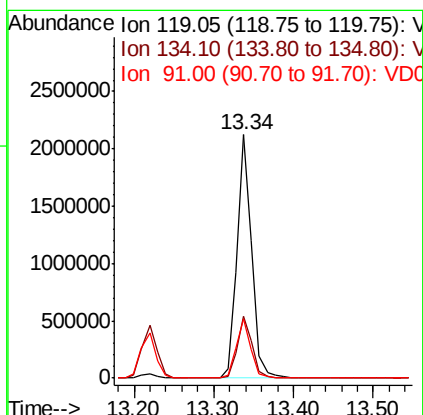
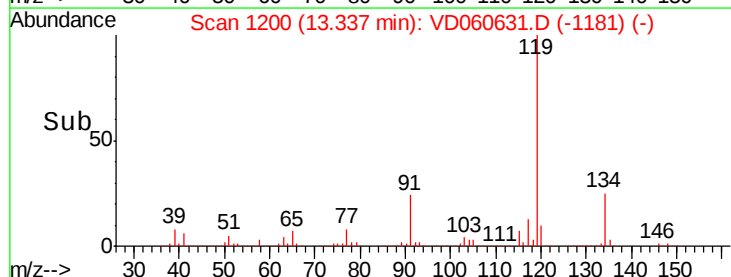
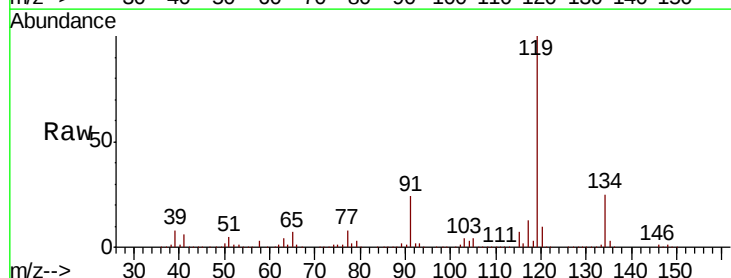
Tgt Ion:119 Resp: 2724284

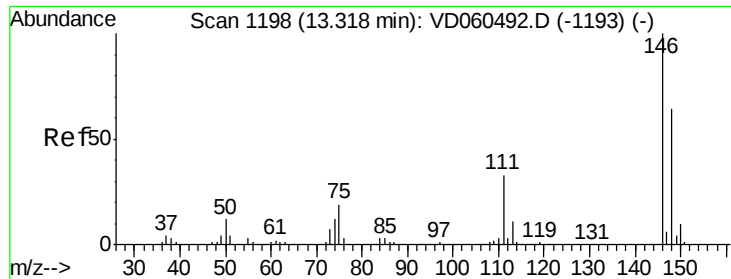
Ion Ratio Lower Upper

119 100

134 25.3 12.5 37.5

91 24.2 11.5 34.4





#87

1,3-Dichlorobenzene

Concen: 48.306 ug/l

RT: 13.31 min Scan# 1197

Delta R.T. -0.01 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

Instrument :

MSVOA_D

ClientSampleId :

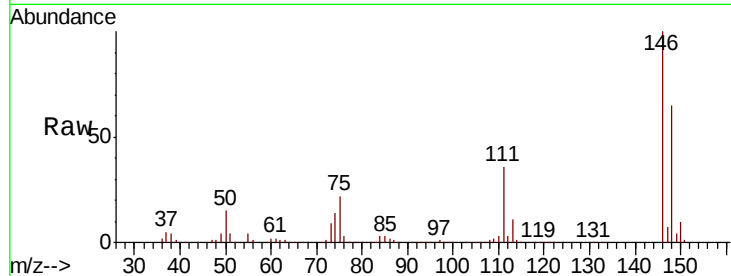
Tot Ion:146 Resp: 1543150

Ion Ratio Lower Upper

146 100

111 35.5 16.5 49.5

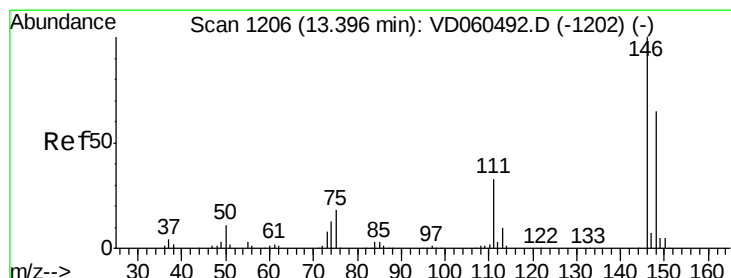
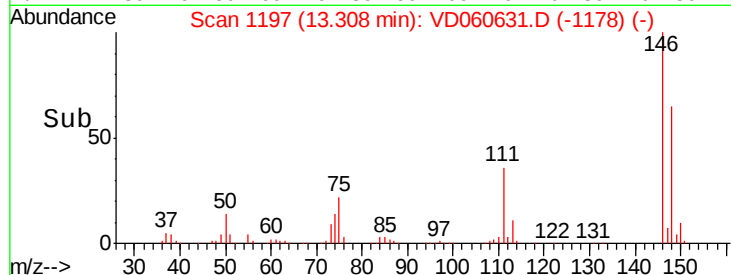
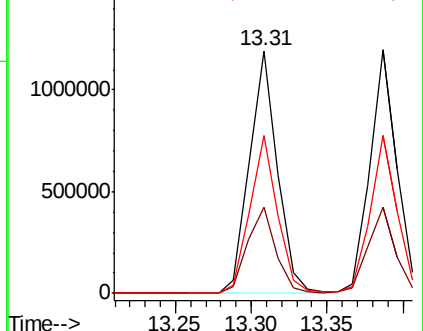
148 65.0 32.3 96.8



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 48.204 ug/l

RT: 13.39 min Scan# 1205

Delta R.T. -0.01 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

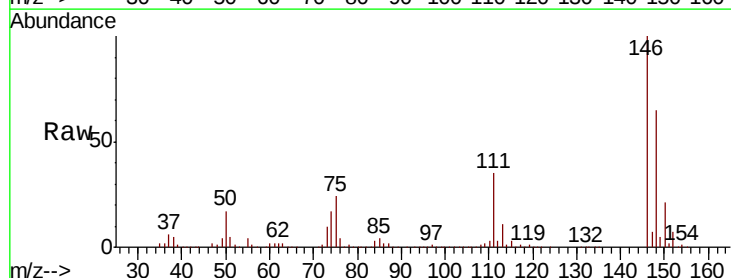
Tgt Ion:146 Resp: 1510644

Ion Ratio Lower Upper

146 100

111 35.3 16.4 49.1

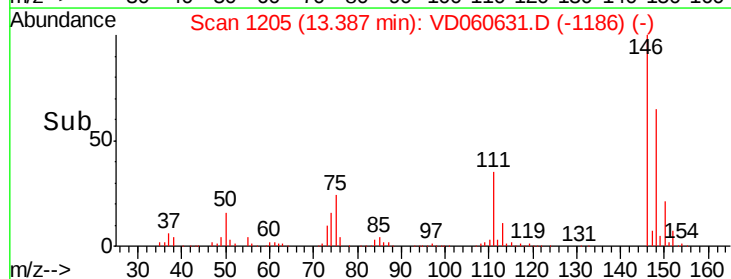
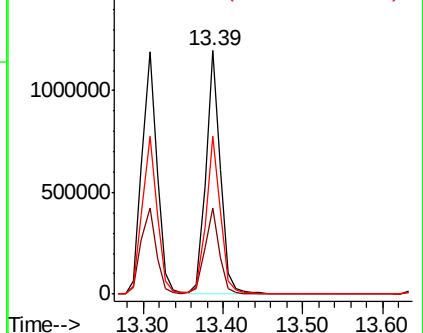
148 64.8 32.6 98.0

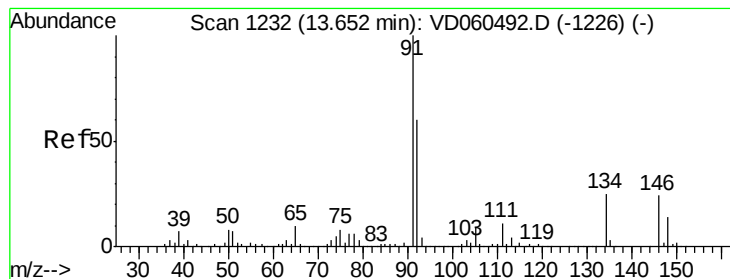


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

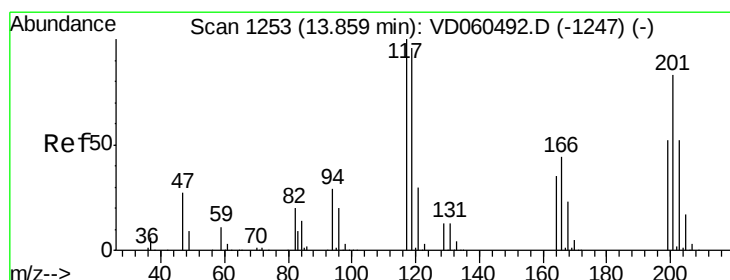
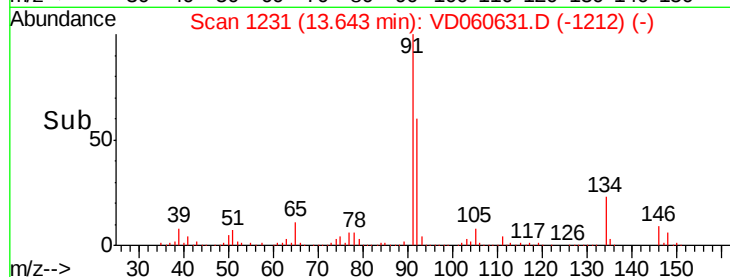
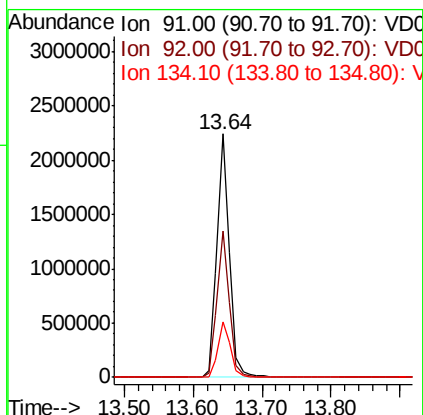
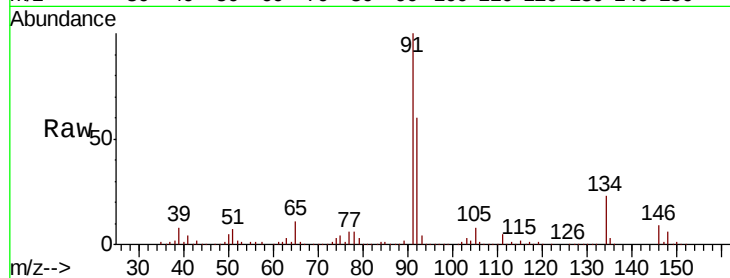




#89
n-Butylbenzene
Concen: 49.568 ug/l
RT: 13.64 min Scan# 1231
Delta R.T. -0.01 min
Lab File: VD060631.D
Acq: 19 Dec 2018 10:30

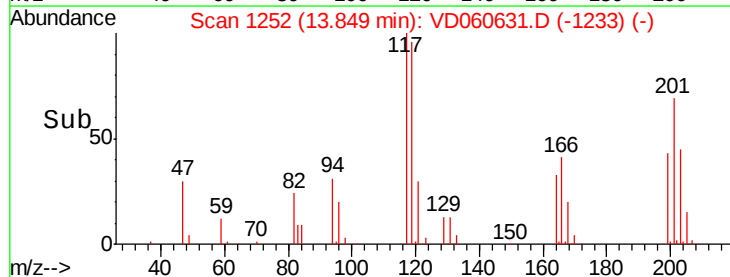
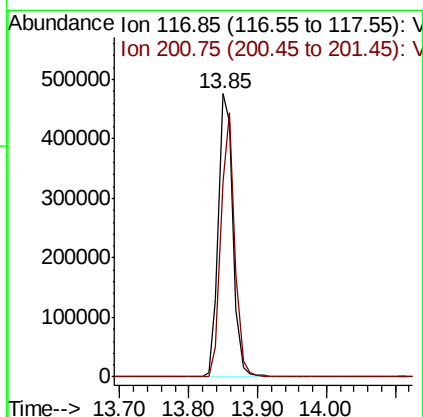
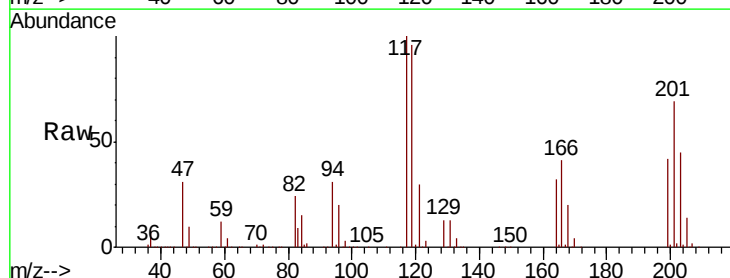
Instrument :
MSVOA_D
ClientSampled :

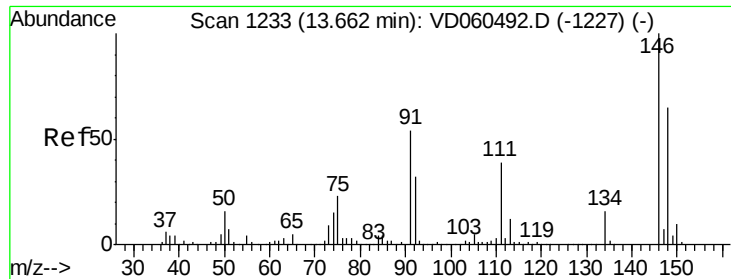
Tot Ion: 91 Resp: 2794619
Ion Ratio Lower Upper
91 100
92 59.9 30.0 90.1
134 22.7 12.5 37.5



#90
Hexachloroethane
Concen: 49.348 ug/l
RT: 13.85 min Scan# 1252
Delta R.T. -0.01 min
Lab File: VD060631.D
Acq: 19 Dec 2018 10:30

Tgt Ion: 117 Resp: 702999
Ion Ratio Lower Upper
117 100
201 68.8 41.3 123.9





#91

1,2-Dichlorobenzene

Concen: 46.839 ug/l

RT: 13.65 min Scan# 1232

Delta R.T. -0.01 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

Instrument :

MSVOA_D

ClientSampled :

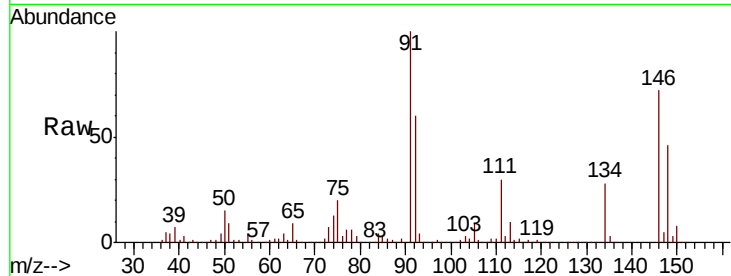
Tot Ion:146 Resp: 1222801

Ion Ratio Lower Upper

146 100

111 41.8 19.3 57.8

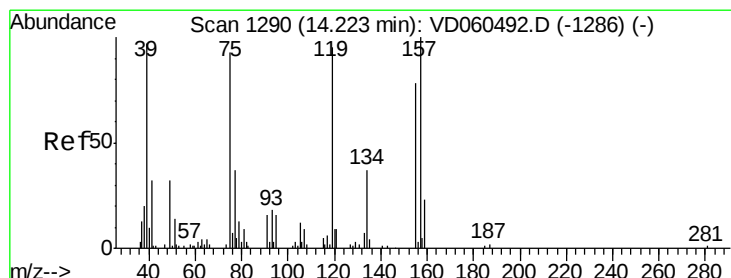
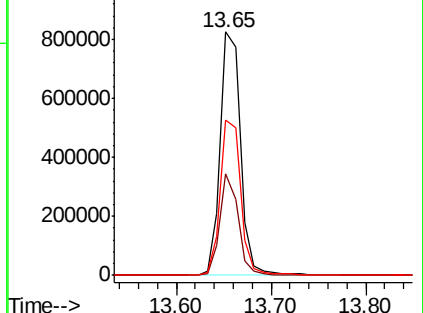
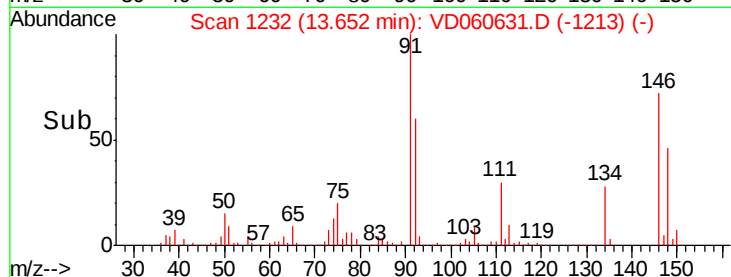
148 63.6 32.3 96.8



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: 46.863 ug/l

RT: 14.22 min Scan# 1290

Delta R.T. 0.00 min

Lab File: VD060631.D

Acq: 19 Dec 2018 10:30

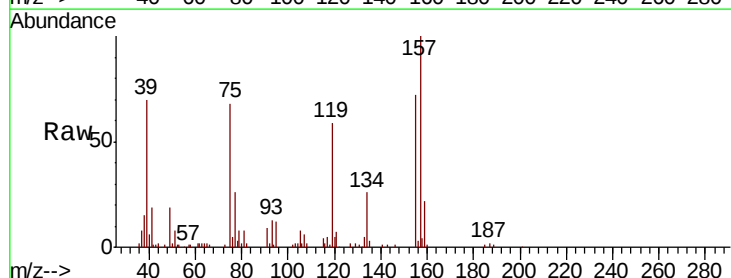
Tgt Ion: 75 Resp: 61018

Ion Ratio Lower Upper

75 100

155 104.8 41.6 124.9

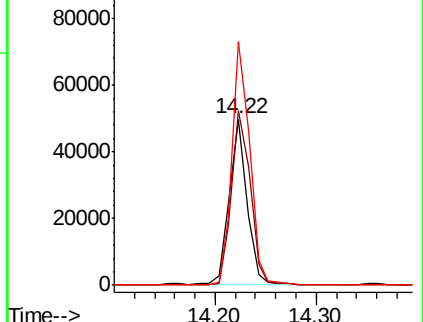
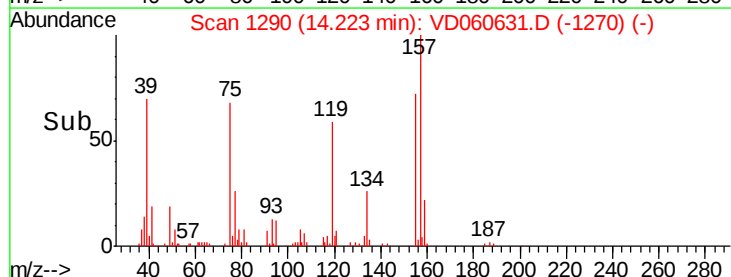
157 146.6 53.6 160.8

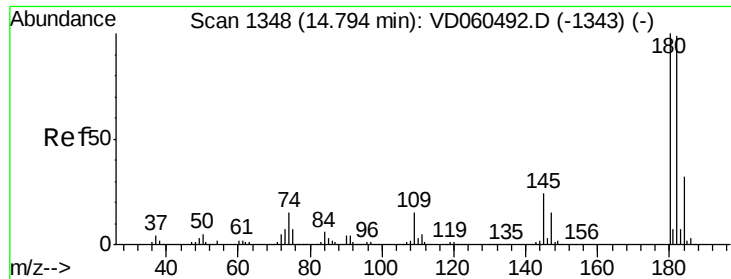


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

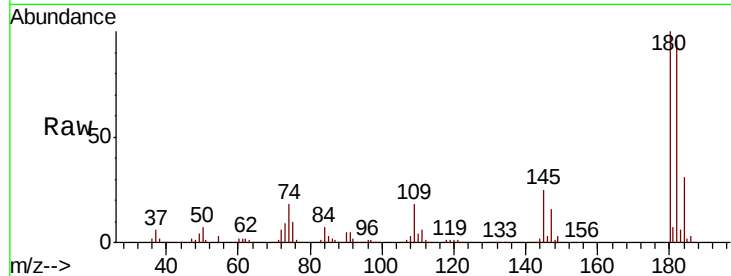




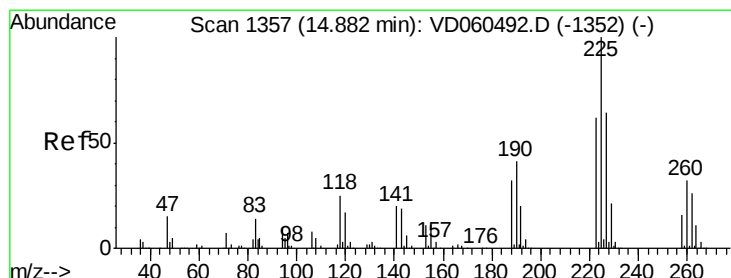
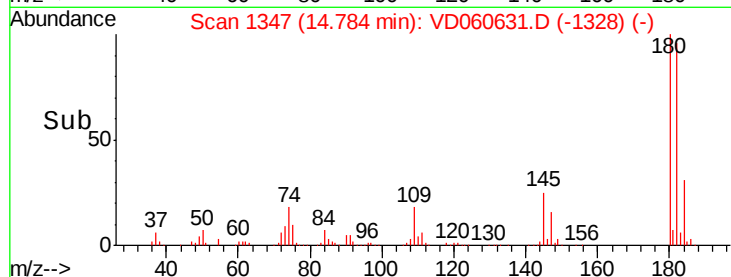
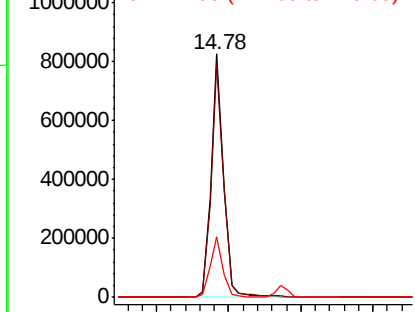
#93
 1,2,4-Trichlorobenzene
 Concen: 48.093 ug/l
 RT: 14.78 min Scan# 1347
 Delta R.T. -0.01 min
 Lab File: VD060631.D
 Acq: 19 Dec 2018 10:30

Instrument :
 MSVOA_D
 ClientSampleID :

Tot Ion:180 Resp: 981482
 Ion Ratio Lower Upper
 180 100
 182 95.9 49.4 148.0
 145 24.9 11.9 35.9

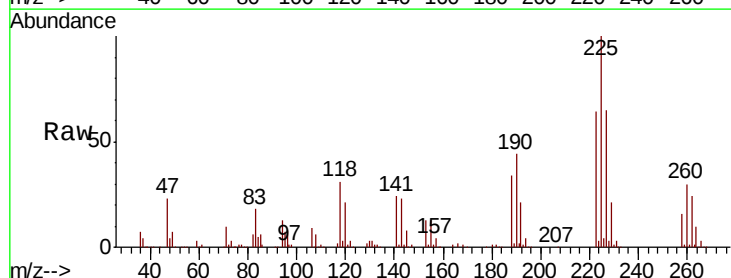


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

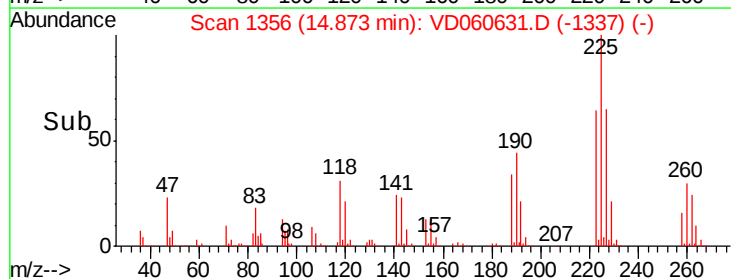
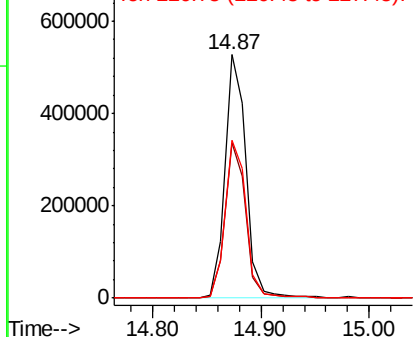


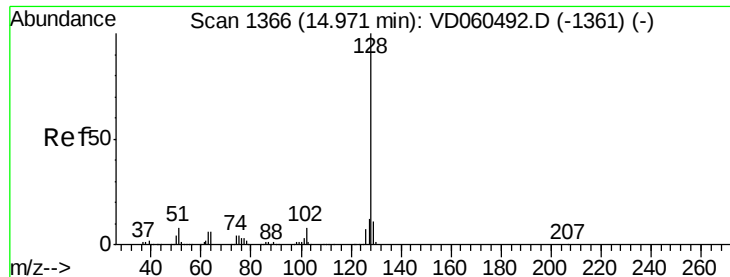
#94
 Hexachlorobutadiene
 Concen: 47.237 ug/l
 RT: 14.87 min Scan# 1356
 Delta R.T. -0.01 min
 Lab File: VD060631.D
 Acq: 19 Dec 2018 10:30

Tgt Ion:225 Resp: 711257
 Ion Ratio Lower Upper
 225 100
 223 63.9 31.2 93.6
 227 65.1 32.0 96.0



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

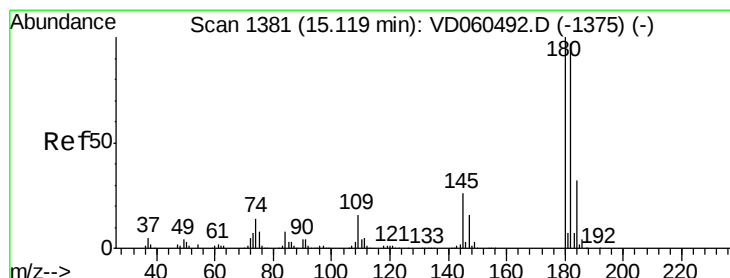
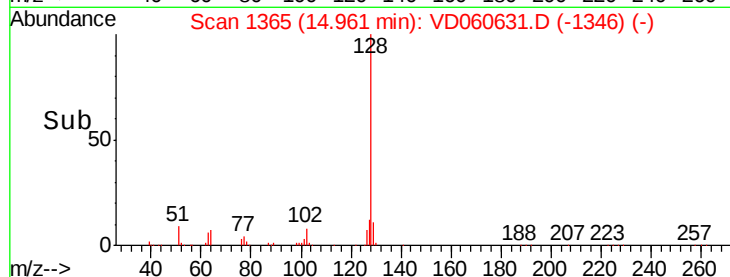
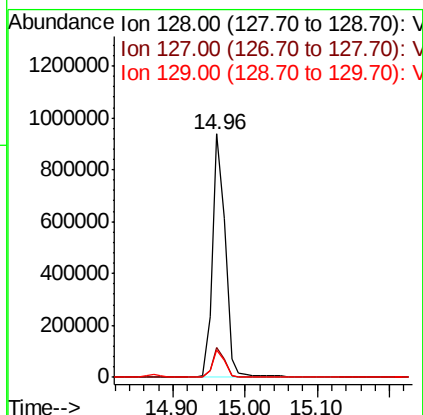
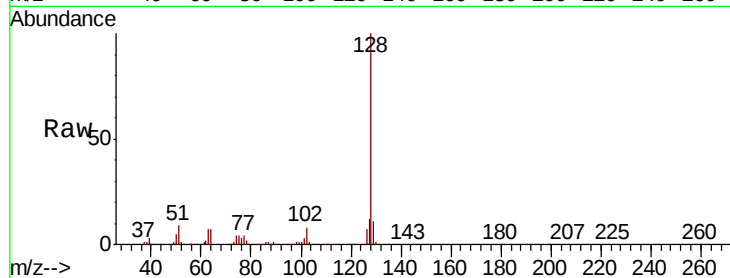




#95
Naphthalene
Concen: 47.182 ug/l
RT: 14.96 min Scan# 1365
Delta R.T. -0.01 min
Lab File: VD060631.D
Acq: 19 Dec 2018 10:30

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:128 Resp: 1145502
Ion Ratio Lower Upper
128 100
127 12.4 9.8 14.8
129 10.9 8.6 13.0



#96
1,2,3-Trichlorobenzene
Concen: 47.844 ug/l
RT: 15.11 min Scan# 1380
Delta R.T. -0.01 min
Lab File: VD060631.D
Acq: 19 Dec 2018 10:30

Tgt Ion:180 Resp: 778003
Ion Ratio Lower Upper
180 100
182 95.2 48.5 145.5
145 27.5 12.9 38.7

