

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121418\
 Data File : VD060570.D
 Acq On : 14 Dec 2018 13:44
 Operator : VA/AP
 Sample : VD1214SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 14 22:22:03 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	6.39	168	1464377	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	7.42	114	2009321	50.00	ug/l	-0.03
63) Chlorobenzene-d5	11.27	117	1609961	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	13.37	152	826356	50.00	ug/l	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.77	65	518262	49.93	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	99.86%	
35) Dibromofluoromethane	6.31	113	771133	52.25	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	104.50%	
50) Toluene-d8	9.44	98	2235664	52.35	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	104.70%	
62) 4-Bromofluorobenzene	12.41	95	787822	51.55	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	103.10%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.60	85	384604	24.208	ug/l	95
3) Chloromethane	1.76	50	336812	22.386	ug/l	100
4) Vinyl Chloride	1.86	62	281040	23.404	ug/l	98
5) Bromomethane	2.15	94	50573	16.835	ug/l	98
6) Chloroethane	2.26	64	70490	16.966	ug/l	99
7) Trichlorofluoromethane	2.51	101	300231	21.654	ug/l	99
8) Diethyl Ether	2.83	74	48585	20.287	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	3.08	101	197798	21.987	ug/l	98
10) Methyl Iodide	3.24	142	221661	21.079	ug/l	98
11) Tert butyl alcohol	3.97	59	42095	99.825	ug/l	96
12) 1,1-Dichloroethene	3.07	96	161887	22.117	ug/l	94
13) Acrolein	2.98	56	36193	78.549	ug/l	99
14) Allyl chloride	3.53	41	296567	21.356	ug/l	98
15) Acrylonitrile	4.08	53	237907	99.361	ug/l	95
16) Acetone	3.16	43	151715	91.189	ug/l	97
17) Carbon Disulfide	3.31	76	503951	21.196	ug/l	98
18) Methyl Acetate	3.55	43	73830	18.672	ug/l	100
19) Methyl tert-butyl Ether	4.12	73	409975	20.198	ug/l	99
20) Methylene Chloride	3.71	84	341977	19.673	ug/l	98
21) trans-1,2-Dichloroethene	4.10	96	335788	21.090	ug/l	97
22) Diisopropyl ether	4.84	45	1008181	20.220	ug/l	96
23) Vinyl Acetate	4.79	43	2490556	100.818	ug/l	100
24) 1,1-Dichloroethane	4.75	63	539984	20.847	ug/l	99
25) 2-Butanone	5.60	43	311898	95.287	ug/l	98
26) 2,2-Dichloropropane	5.57	77	426334	21.306	ug/l	98
27) cis-1,2-Dichloroethene	5.58	96	336631	20.794	ug/l	98
28) Bromochloromethane	5.91	49	226292	19.721	ug/l	90
29) Tetrahydrofuran	5.94	42	183011	98.734	ug/l	97
30) Chloroform	6.08	83	522567	20.025	ug/l	97
31) Cyclohexane	6.35	56	509959	20.785	ug/l	99
32) 1,1,1-Trichloroethane	6.27	97	456375	21.273	ug/l	98
36) 1,1-Dichloropropene	6.51	75	428145	21.799	ug/l	99
37) Ethyl Acetate	5.68	43	170336	19.997	ug/l	99
38) Carbon Tetrachloride	6.48	117	383553	21.753	ug/l	99

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 Misc : 5.00g/5ml/MSVOA D/SOIL
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 MSVOA_D
 ClientSampleId :

Quant Time: Dec 14 22:22:03 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)
39) Methylcyclohexane	8.02	83	482252	21.539	ug/l	98
40) Benzene	6.77	78	1071676	21.350	ug/l	97
41) Methacrylonitrile	5.93	41	192773	41.983	ug/l #	72
42) 1,2-Dichloroethane	6.88	62	265141	20.775	ug/l	99
43) Isopropyl Acetate	8.33	43	209857	19.958	ug/l #	98
44) Trichloroethene	7.72	130	314703	20.979	ug/l	100
45) 1,2-Dichloropropane	8.08	63	254178	20.474	ug/l	100
46) Dibromomethane	8.20	93	147301	20.536	ug/l	98
47) Bromodichloromethane	8.47	83	357357	20.997	ug/l	100
48) Methyl methacrylate	8.23	41	127456	20.486	ug/l	97
49) 1,4-Dioxane	8.21	88	22356	396.472	ug/l	92
51) 4-Methyl-2-Pentanone	9.32	43	656468	100.368	ug/l	100
52) Toluene	9.53	92	672658	21.440	ug/l	97
53) t-1,3-Dichloropropene	9.90	75	292279	20.900	ug/l	99
54) cis-1,3-Dichloropropene	9.08	75	385239	20.967	ug/l	99
55) 1,1,2-Trichloroethane	10.17	97	180232	20.629	ug/l	98
56) Ethyl methacrylate	10.01	69	162420	20.541	ug/l	96
57) 1,3-Dichloropropane	10.36	76	275122	20.370	ug/l	96
58) 2-Chloroethyl Vinyl ether	8.91	63	519918	109.892	ug/l	99
59) 2-Hexanone	10.47	43	454827	99.487	ug/l	97
60) Dibromochloromethane	10.62	129	226257	20.713	ug/l	97
61) 1,2-Dibromoethane	10.74	107	179005	20.104	ug/l	97
64) Tetrachloroethene	10.24	164	297103	20.841	ug/l	98
65) Chlorobenzene	11.30	112	713214	20.940	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.41	131	234579	21.368	ug/l	98
67) Ethyl Benzene	11.42	91	1277028	21.981	ug/l	99
68) m/p-Xylenes	11.55	106	939365	43.706	ug/l	98
69) o-Xylene	11.92	106	439712	21.467	ug/l	92
70) Styrene	11.94	104	709552	21.582	ug/l	97
71) Bromoform	12.11	173	145161	19.820	ug/l	99
73) Isopropylbenzene	12.26	105	1242714	21.252	ug/l	99
74) N-amyl acetate	12.13	43	272352	19.271	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.55	83	188596	20.146	ug/l	100
76) 1,2,3-Trichloropropane	12.59	75	185535	19.816	ug/l	95
77) Bromobenzene	12.53	156	312714	20.345	ug/l	93
78) n-propylbenzene	12.63	91	1593194	21.553	ug/l	99
79) 2-Chlorotoluene	12.70	91	823293	20.525	ug/l	99
80) 1,3,5-Trimethylbenzene	12.79	105	977435	21.875	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.33	75	49606	18.996	ug/l	98
82) 4-Chlorotoluene	12.79	91	974005	21.620	ug/l	91
83) tert-Butylbenzene	13.03	119	1097295	21.902	ug/l	92
84) 1,2,4-Trimethylbenzene	13.08	105	972517	21.020	ug/l	99
85) sec-Butylbenzene	13.21	105	1345917	21.554	ug/l	98
86) p-Isopropyltoluene	13.33	119	1076056	21.739	ug/l	96
87) 1,3-Dichlorobenzene	13.30	146	564368	20.279	ug/l	97
88) 1,4-Dichlorobenzene	13.38	146	568114	20.809	ug/l	97
89) n-Butylbenzene	13.63	91	1147244	20.883	ug/l	96
90) Hexachloroethane	13.85	117	258034	20.791	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	481291	21.162	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.21	75	21696	19.127	ug/l	96

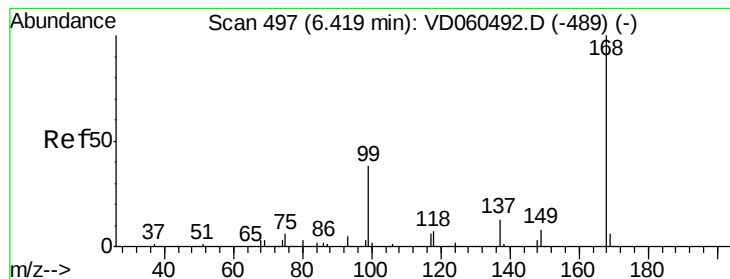
Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121418\
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 06 01:49:20 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.77	180	362988	20.416	ug/l	94
94) Hexachlorobutadiene	14.87	225	280735	21.401	ug/l	99
95) Naphthalene	14.96	128	418134	19.769	ug/l	100
96) 1,2,3-Trichlorobenzene	15.11	180	282725	19.957	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.39 min Scan# 494

Delta R.T. -0.03 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

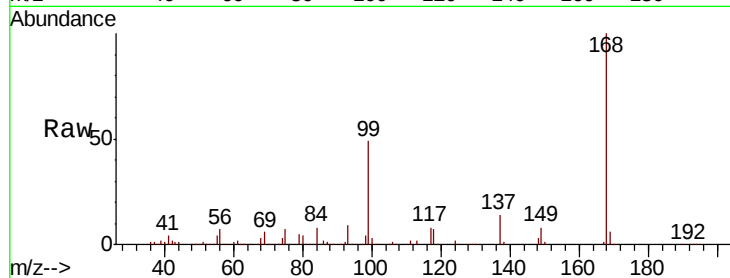
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 1464377

Ion Ratio Lower Upper

168 100

99 48.7 35.6 53.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.39

500000

400000

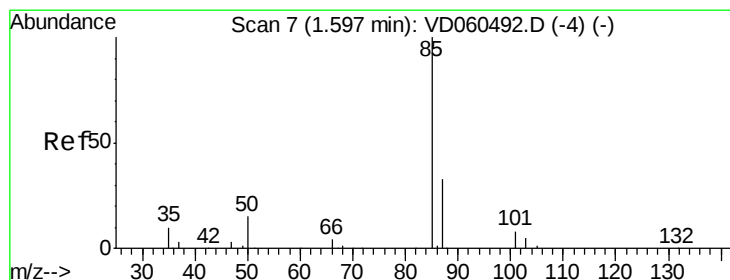
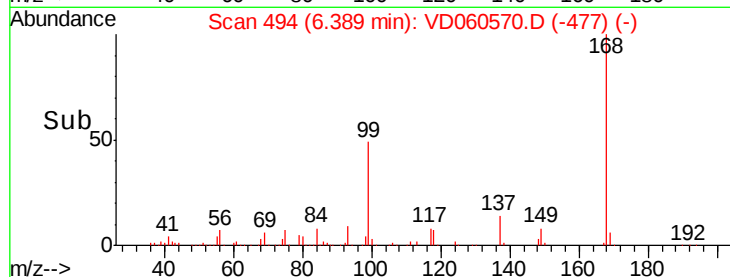
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 24.208 ug/l

RT: 1.60 min Scan# 7

Delta R.T. -0.00 min

Lab File: VD060570.D

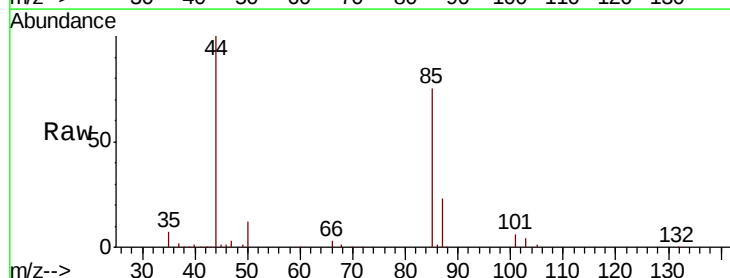
Acq: 14 Dec 2018 13:44

Tgt Ion: 85 Resp: 384604

Ion Ratio Lower Upper

85 100

87 30.5 16.7 50.0



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.60

200000

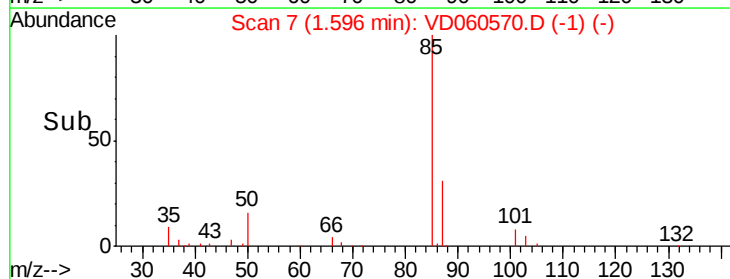
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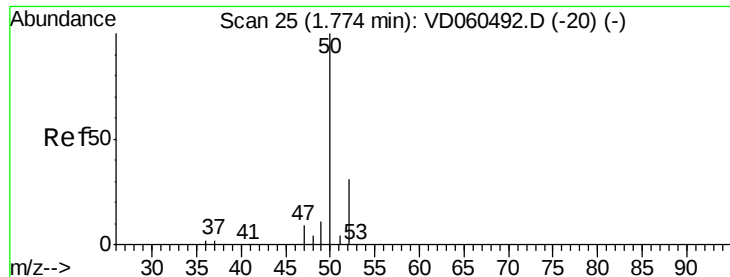
100000

50000

0

Time-->





#3

Chloromethane

Concen: 22.386 ug/l

RT: 1.76 min Scan# 24

Delta R.T. -0.01 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

Instrument :

MSVOA_D

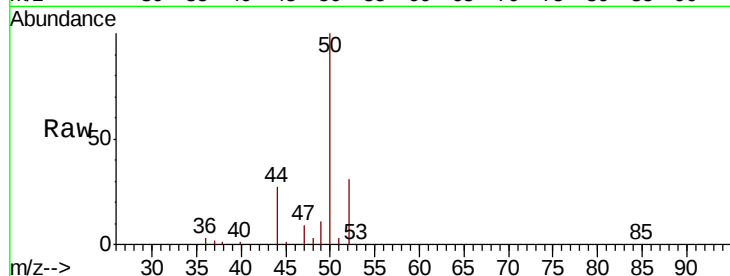
ClientSampled :

Tot Ion: 50 Resp: 336812

Ion Ratio Lower Upper

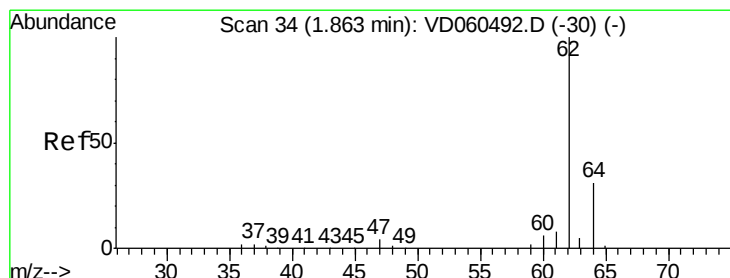
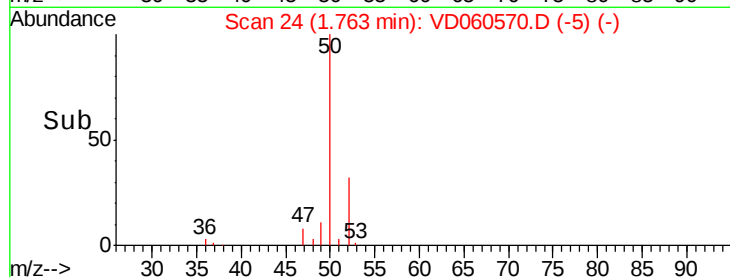
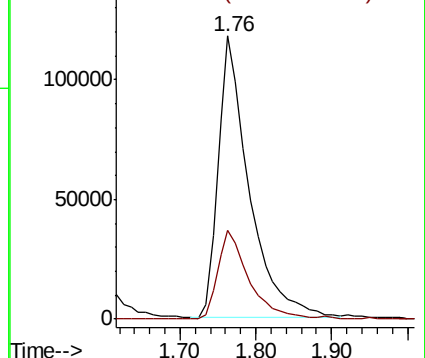
50 100

52 31.3 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: 23.404 ug/l

RT: 1.86 min Scan# 34

Delta R.T. -0.00 min

Lab File: VD060570.D

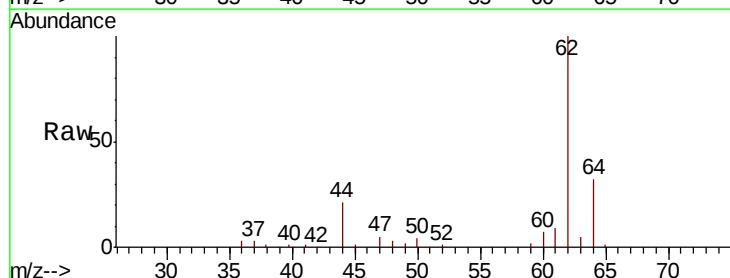
Acq: 14 Dec 2018 13:44

Tgt Ion: 62 Resp: 281040

Ion Ratio Lower Upper

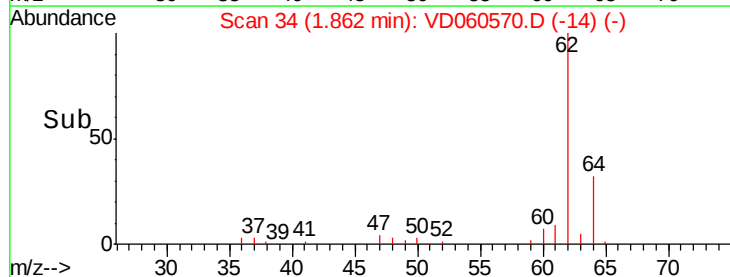
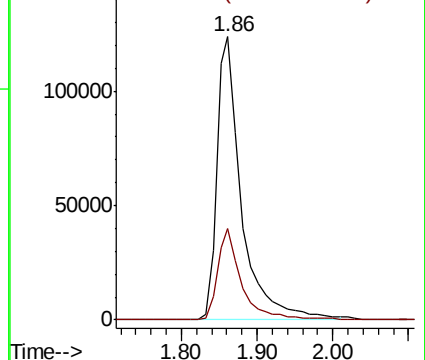
62 100

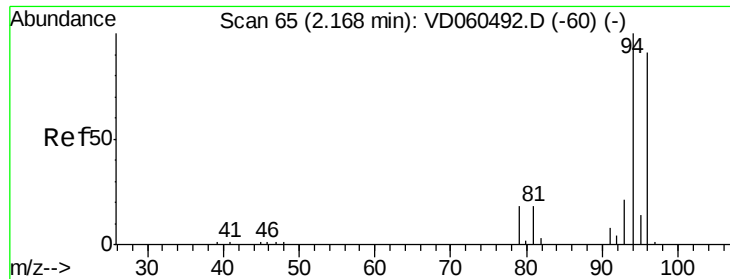
64 32.1 24.6 37.0



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

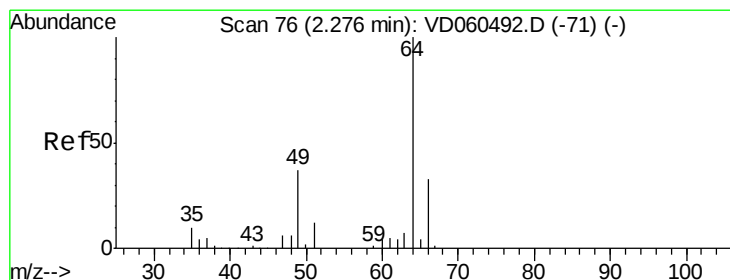
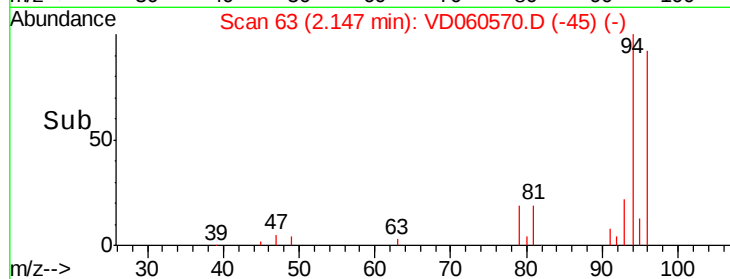
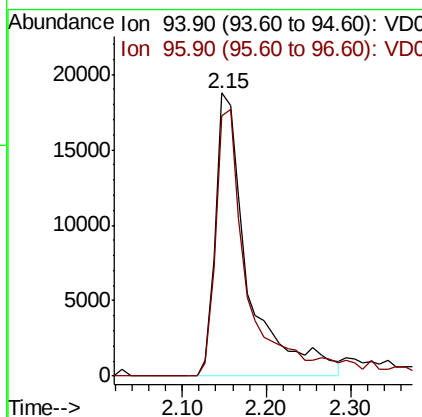
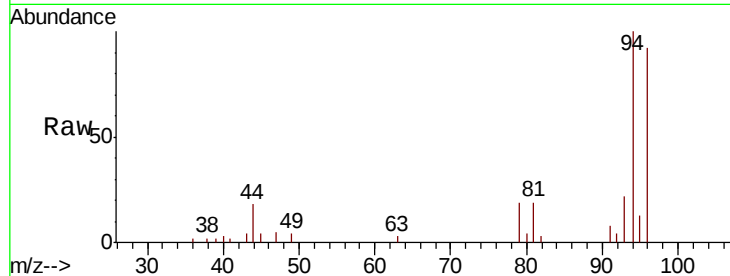




#5
Bromomethane
Concen: 16.835 ug/l
RT: 2.15 min Scan# 63
Delta R.T. -0.02 min
Lab File: VD060570.D
Acq: 14 Dec 2018 13:44

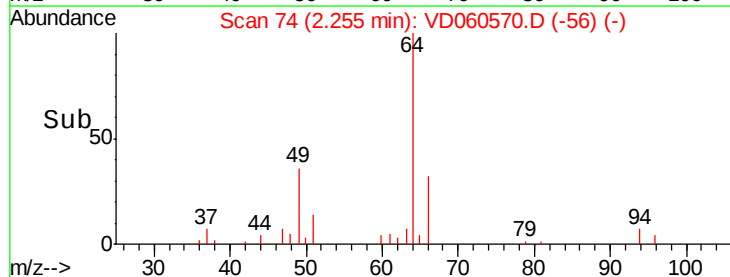
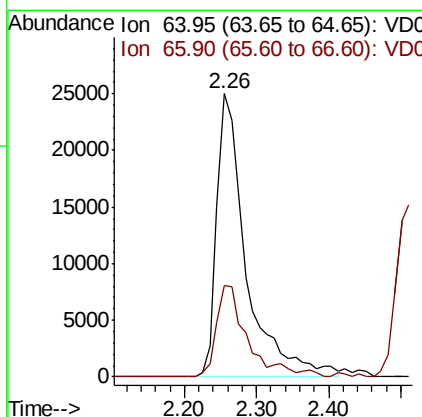
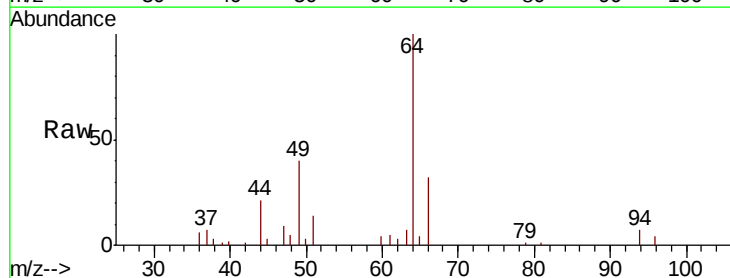
Instrument :
MSVOA_D
ClientSampleId :

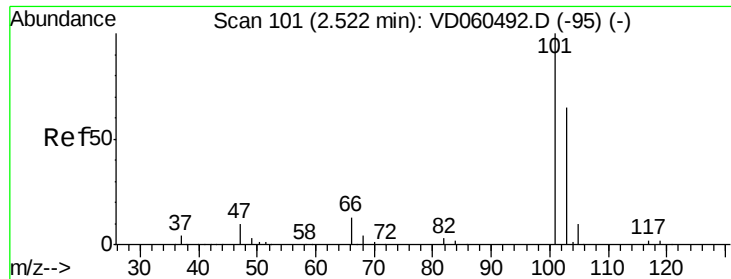
Tot Ion: 94 Resp: 50573
Ion Ratio Lower Upper
94 100
96 92.2 72.6 108.8



#6
Chloroethane
Concen: 16.966 ug/l
RT: 2.26 min Scan# 74
Delta R.T. -0.02 min
Lab File: VD060570.D
Acq: 14 Dec 2018 13:44

Tgt Ion: 64 Resp: 70490
Ion Ratio Lower Upper
64 100
66 32.3 26.4 39.6



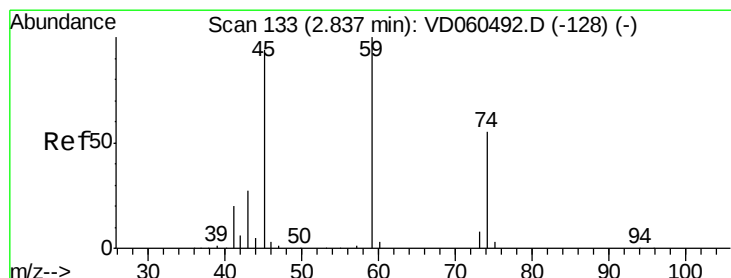
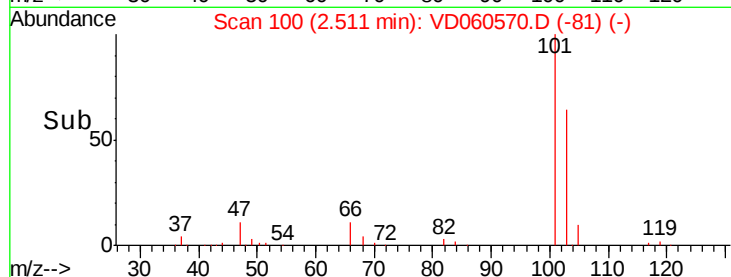
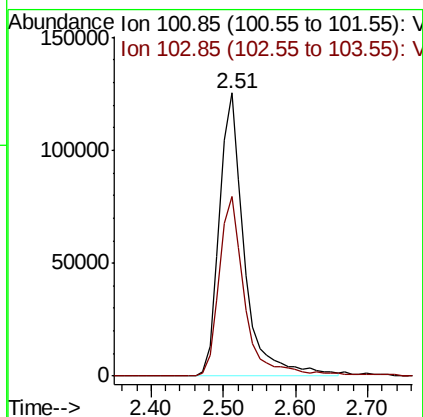
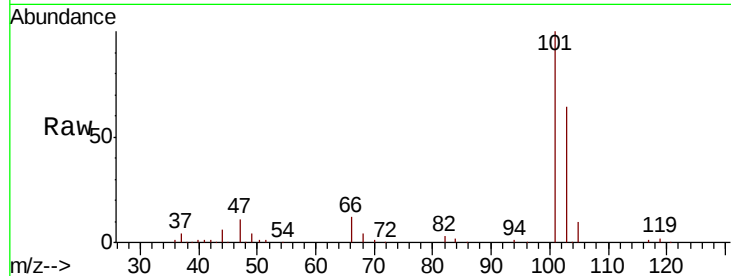


#7

Trichlorofluoromethane
 Concen: 21.654 ug/l
 RT: 2.51 min Scan# 100
 Delta R.T. -0.01 min
 Lab File: VD060570.D
 Acq: 14 Dec 2018 13:44

Instrument :
 MSVOA_D
 ClientSampleId :

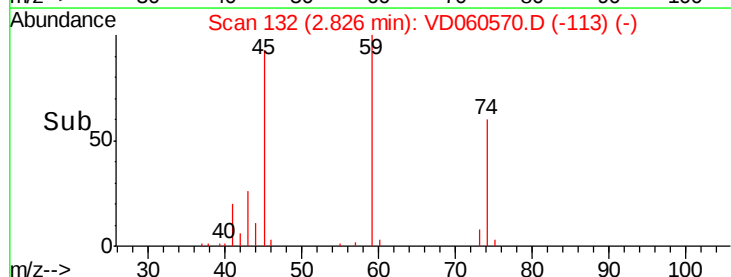
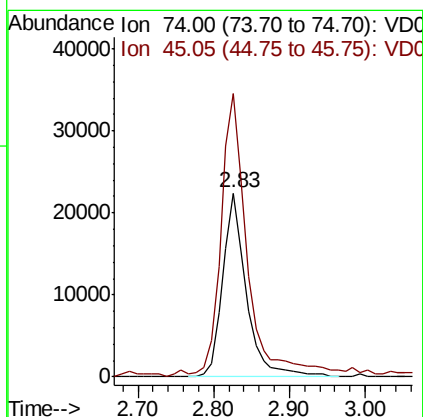
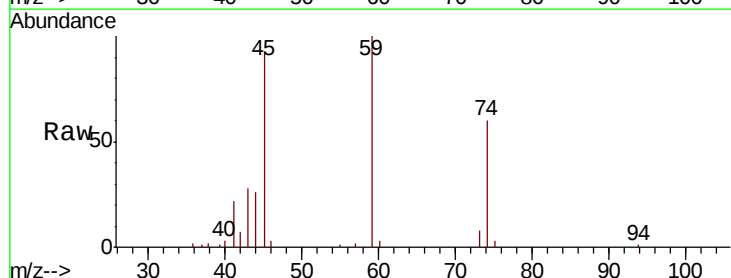
Tot Ion:101 Resp: 300231
 Ion Ratio Lower Upper
 101 100
 103 63.7 51.8 77.8

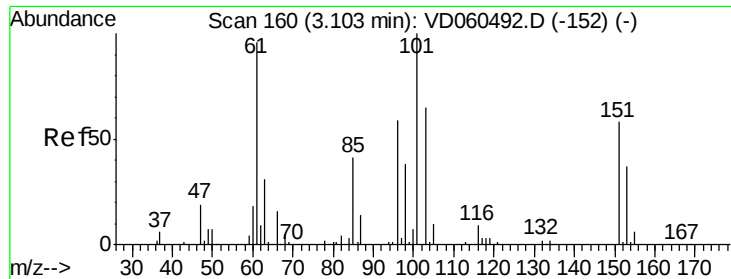


#8

Diethyl Ether
 Concen: 20.287 ug/l
 RT: 2.83 min Scan# 132
 Delta R.T. -0.01 min
 Lab File: VD060570.D
 Acq: 14 Dec 2018 13:44

Tgt Ion: 74 Resp: 48585
 Ion Ratio Lower Upper
 74 100
 45 154.1 86.0 258.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.987 ug/l

RT: 3.08 min Scan# 158

Delta R.T. -0.02 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

Instrument :

MSVOA_D

ClientSampleId :

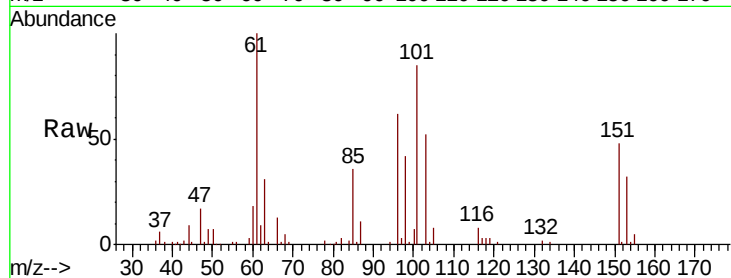
Tot Ion:101 Resp: 197798

Ion Ratio Lower Upper

101 100

85 41.8 32.7 49.1

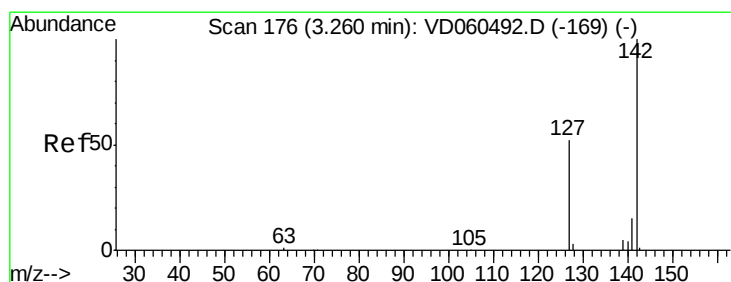
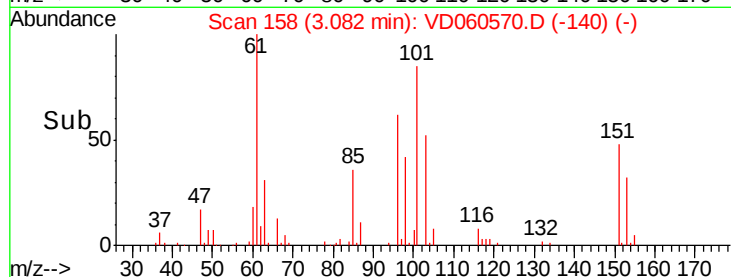
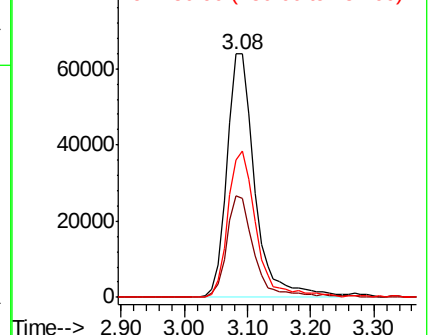
151 56.5 46.6 69.8



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: 21.079 ug/l

RT: 3.24 min Scan# 174

Delta R.T. -0.02 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

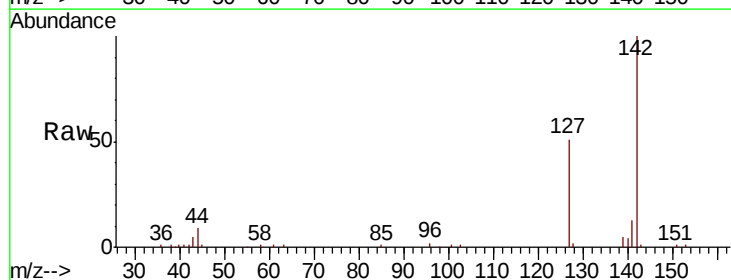
Tgt Ion:142 Resp: 221661

Ion Ratio Lower Upper

142 100

127 50.8 41.2 61.8

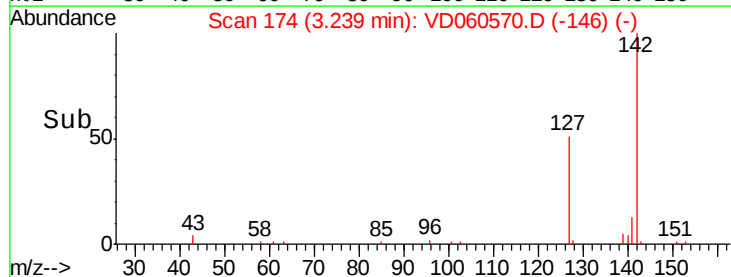
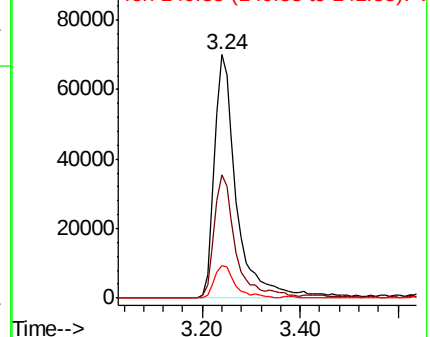
141 13.2 11.9 17.9

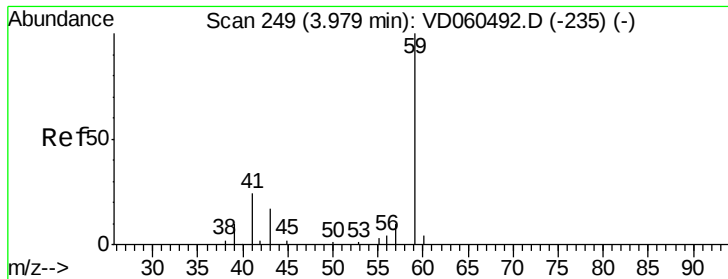


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



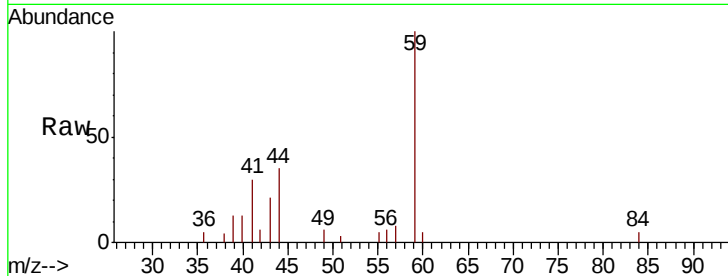


#11

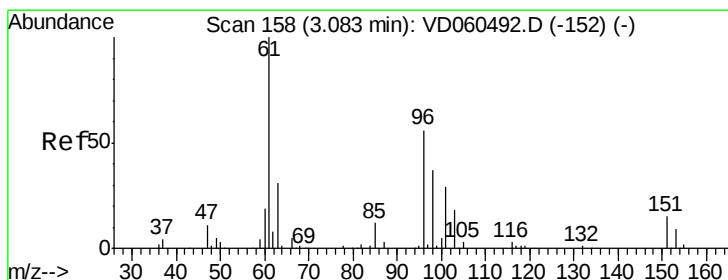
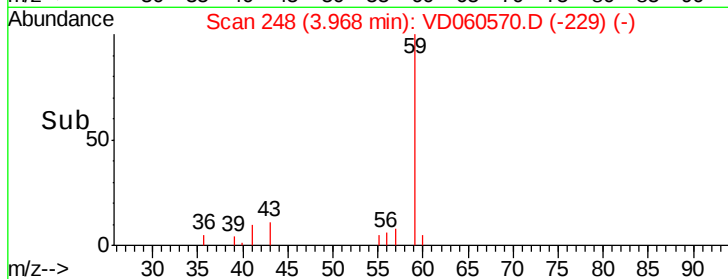
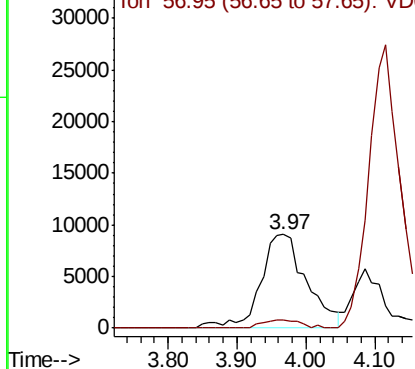
Tert butyl alcohol
 Concen: 99.825 ug/l
 RT: 3.97 min Scan# 248
 Delta R.T. -0.01 min
 Lab File: VD060570.D
 Acq: 14 Dec 2018 13:44

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion: 59 Resp: 42095
 Ion Ratio Lower Upper
 59 100
 57 8.4 8.1 12.1



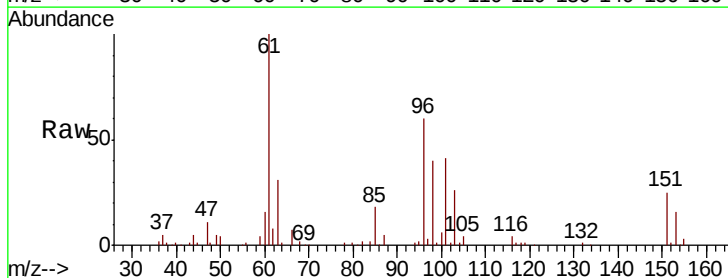
Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC



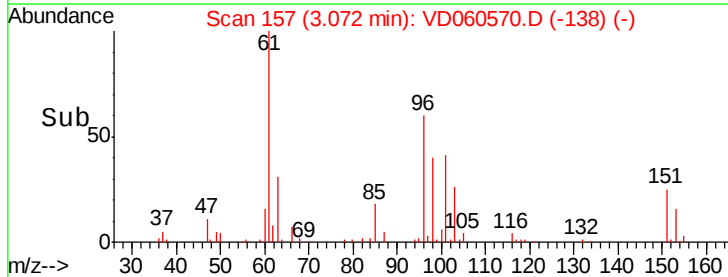
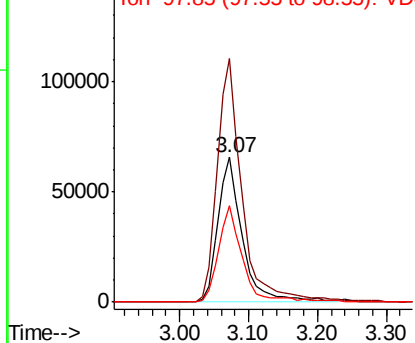
#12

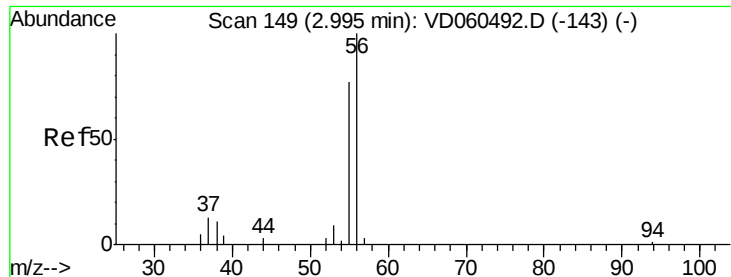
1,1-Dichloroethene
 Concen: 22.117 ug/l
 RT: 3.07 min Scan# 157
 Delta R.T. -0.01 min
 Lab File: VD060570.D
 Acq: 14 Dec 2018 13:44

Tgt Ion: 96 Resp: 161887
 Ion Ratio Lower Upper
 96 100
 61 168.0 143.0 214.4
 98 66.7 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: 78.549 ug/l

RT: 2.98 min Scan# 148

Delta R.T. -0.01 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

Instrument :

MSVOA_D

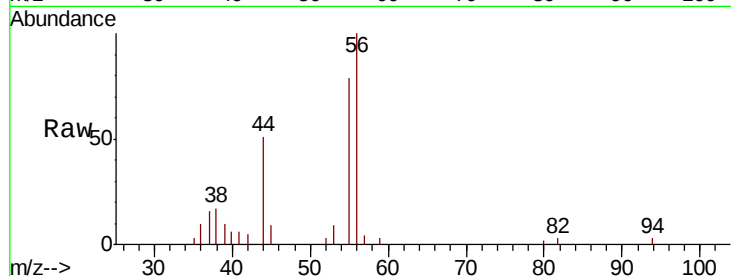
ClientSampleId :

Tot Ion: 56 Resp: 36193

Ion Ratio Lower Upper

56 100

55 78.6 62.0 93.0



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

2.98

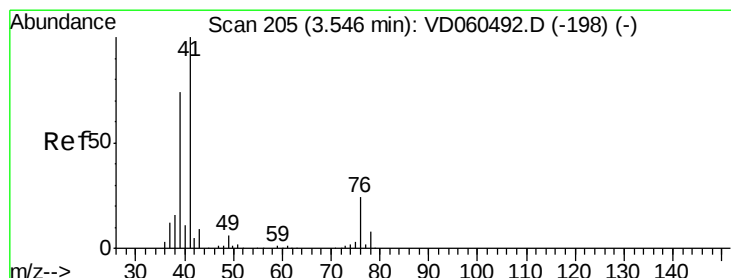
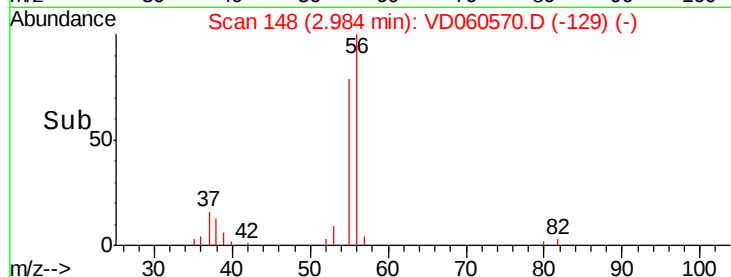
10000

5000

0

Time-->

2.90 3.00 3.10



#14

Allyl chloride

Concen: 21.356 ug/l

RT: 3.53 min Scan# 204

Delta R.T. -0.01 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

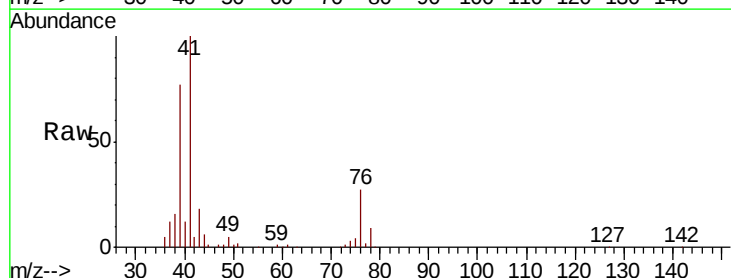
Tgt Ion: 41 Resp: 296567

Ion Ratio Lower Upper

41 100

39 76.6 59.3 88.9

76 26.9 21.0 31.6



Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC

3.53

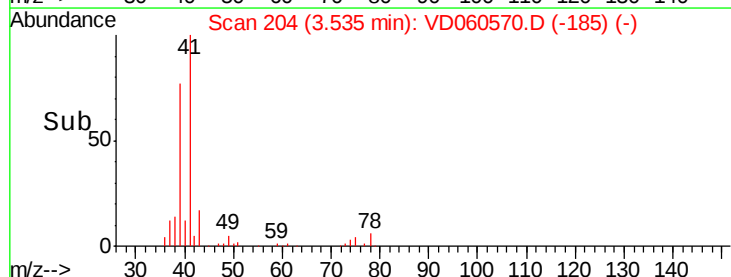
100000

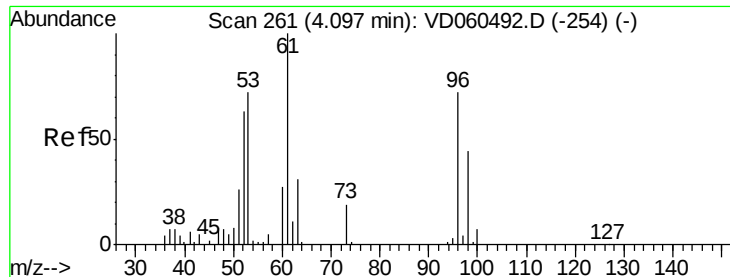
50000

0

Time-->

3.40 3.50 3.60





#15

Acrylonitrile

Concen: 99.361 ug/l

RT: 4.08 min Scan# 259

Delta R.T. -0.02 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

Instrument :
MSVOA_D
ClientSampled :

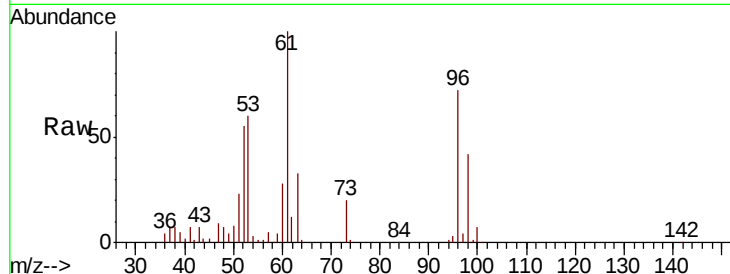
Tot Ion: 53 Resp: 237907

Ion Ratio Lower Upper

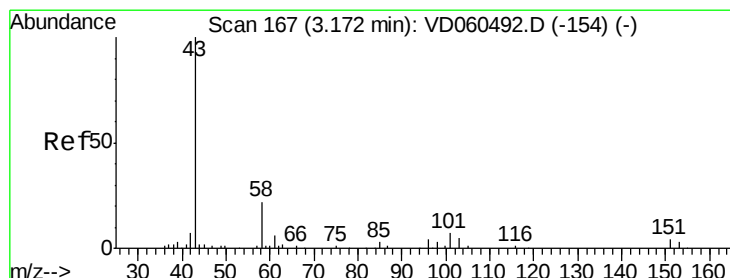
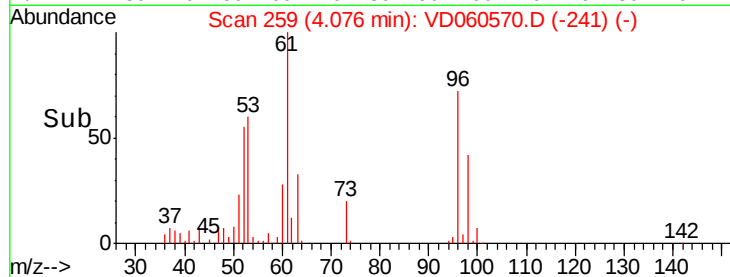
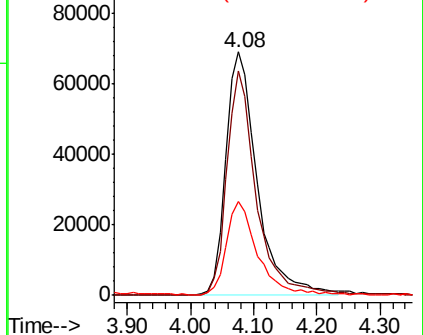
53 100

52 92.2 70.0 105.0

51 38.3 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: 91.189 ug/l

RT: 3.16 min Scan# 166

Delta R.T. -0.01 min

Lab File: VD060570.D

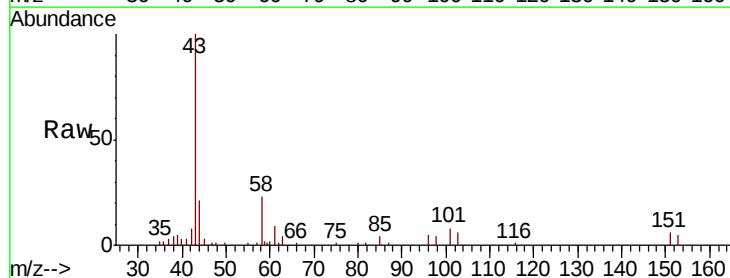
Acq: 14 Dec 2018 13:44

Tgt Ion: 43 Resp: 151715

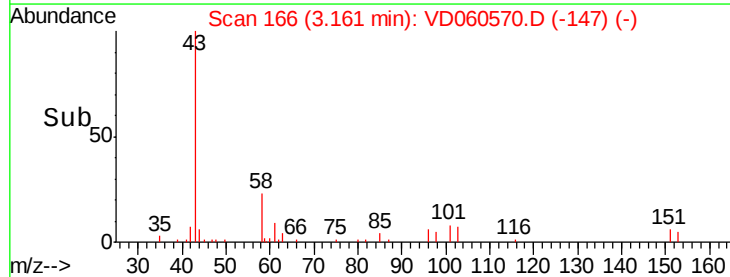
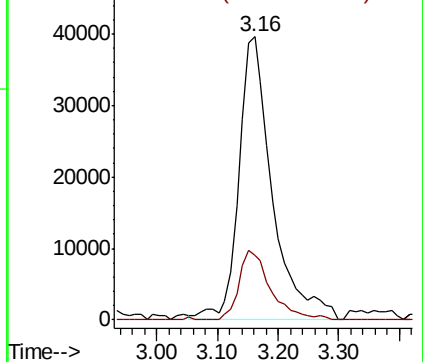
Ion Ratio Lower Upper

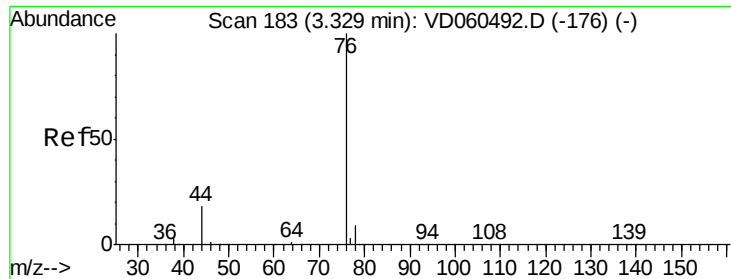
43 100

58 22.9 17.3 25.9



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

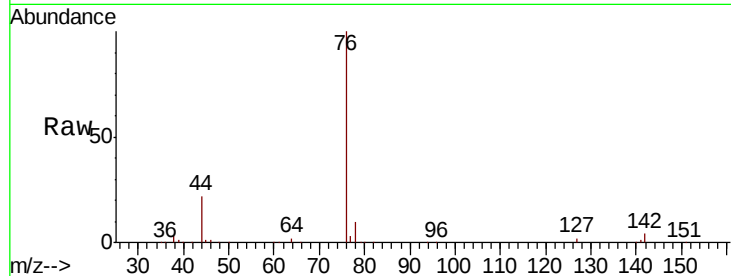




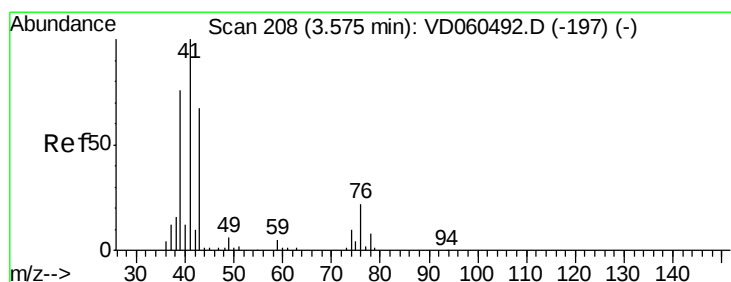
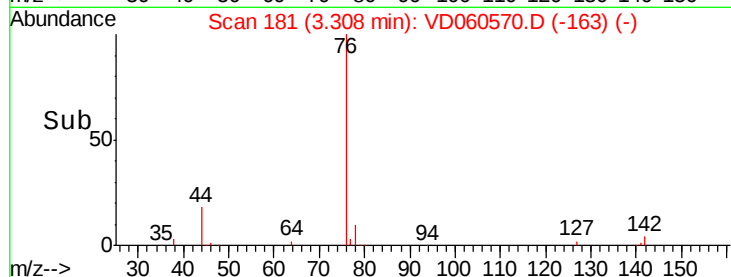
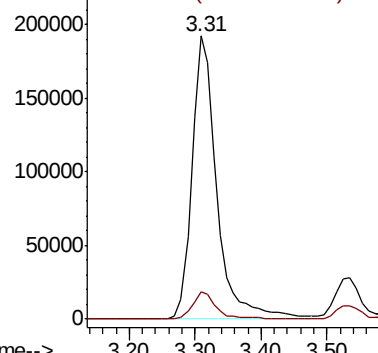
#17
Carbon Disulfide
Concen: 21.196 ug/l
RT: 3.31 min Scan# 181
Delta R.T. -0.02 min
Lab File: VD060570.D
Acq: 14 Dec 2018 13:44

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 76 Resp: 503951
Ion Ratio Lower Upper
76 100
78 9.6 7.0 10.6

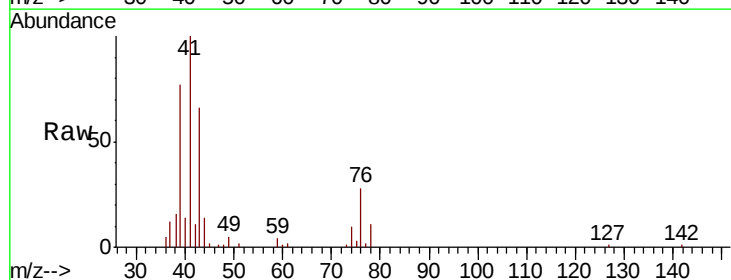


Abundance Ion 75.85 (75.55 to 76.55): VDC
Ion 77.85 (77.55 to 78.55): VDC

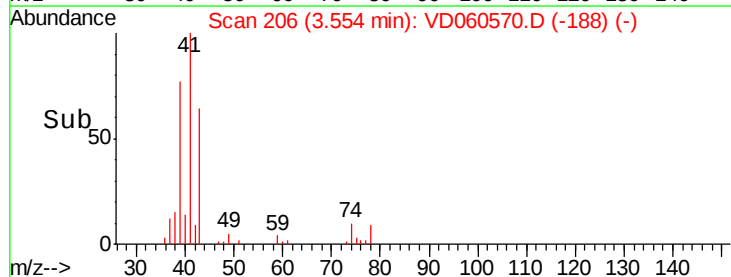
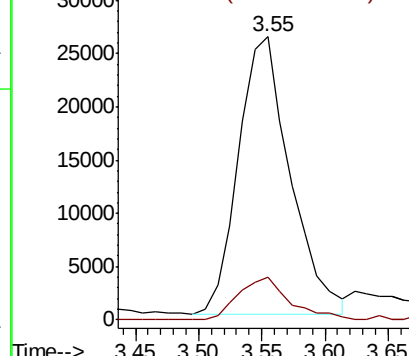


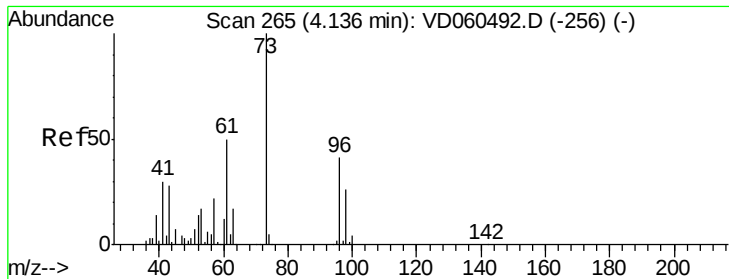
#18
Methyl Acetate
Concen: 18.672 ug/l
RT: 3.55 min Scan# 206
Delta R.T. -0.02 min
Lab File: VD060570.D
Acq: 14 Dec 2018 13:44

Tgt Ion: 43 Resp: 73830
Ion Ratio Lower Upper
43 100
74 14.9 12.0 18.0



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 74.00 (73.70 to 74.70): VDC



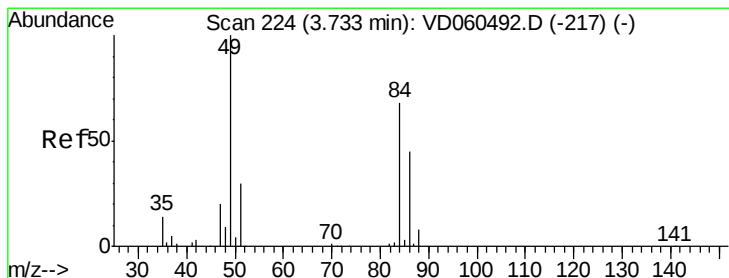
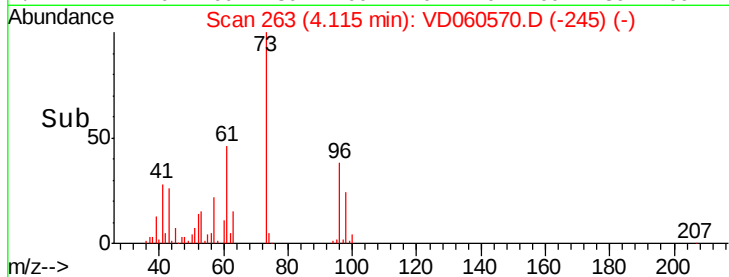
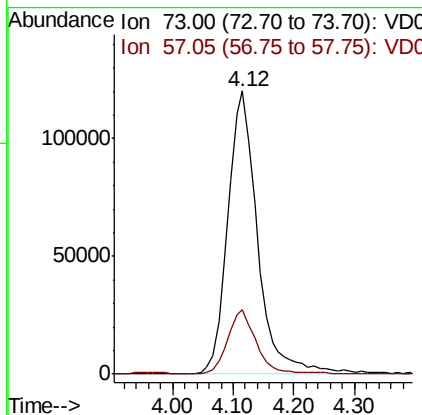
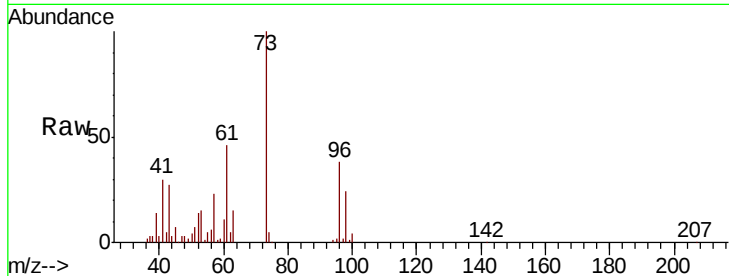


#19

Methyl tert-butyl Ether
 Concen: 20.198 ug/l
 RT: 4.12 min Scan# 263
 Delta R.T. -0.02 min
 Lab File: VD060570.D
 Acq: 14 Dec 2018 13:44

Instrument :
 MSVOA_D
 ClientSampled :

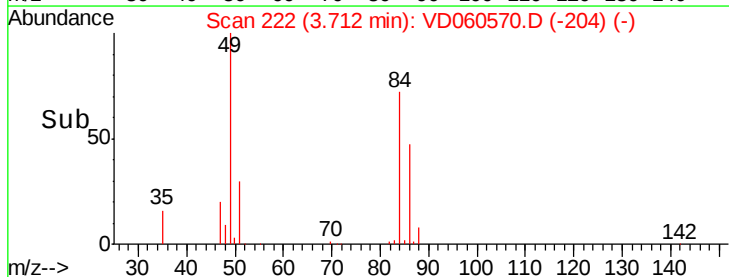
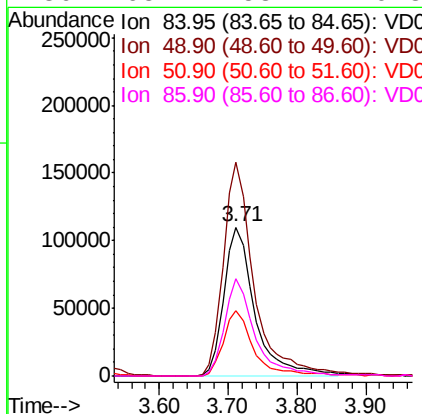
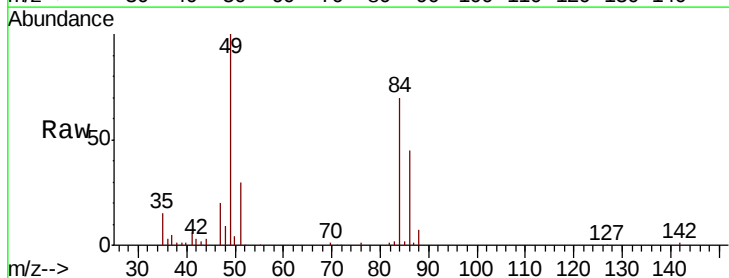
Tot Ion: 73 Resp: 409975
 Ion Ratio Lower Upper
 73 100
 57 22.8 17.8 26.6

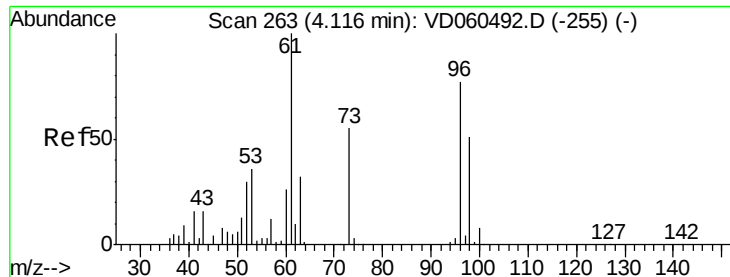


#20

Methylene Chloride
 Concen: 19.673 ug/l
 RT: 3.71 min Scan# 222
 Delta R.T. -0.02 min
 Lab File: VD060570.D
 Acq: 14 Dec 2018 13:44

Tgt Ion: 84 Resp: 341977
 Ion Ratio Lower Upper
 84 100
 49 143.5 117.2 175.8
 51 43.6 35.3 52.9
 86 65.1 53.2 79.8





#21

trans-1,2-Dichloroethene

Concen: 21.090 ug/l

RT: 4.10 min Scan# 261

Delta R.T. -0.02 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

Instrument :

MSVOA_D

ClientSampleId :

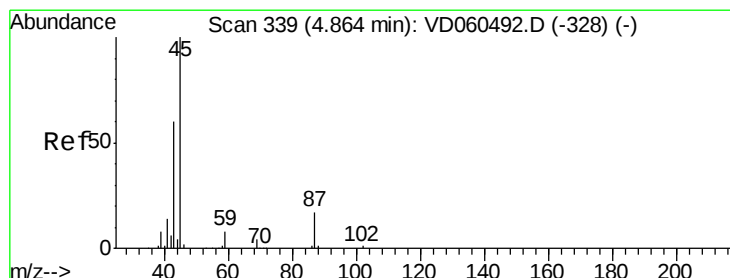
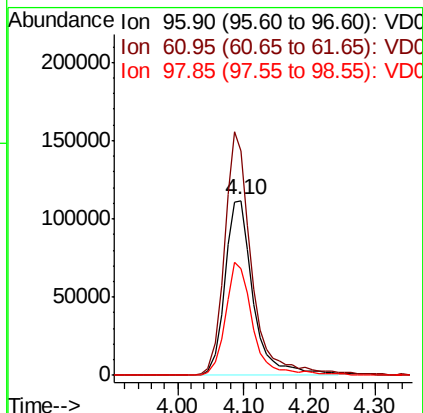
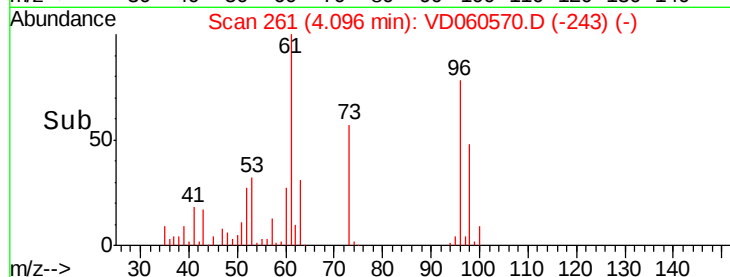
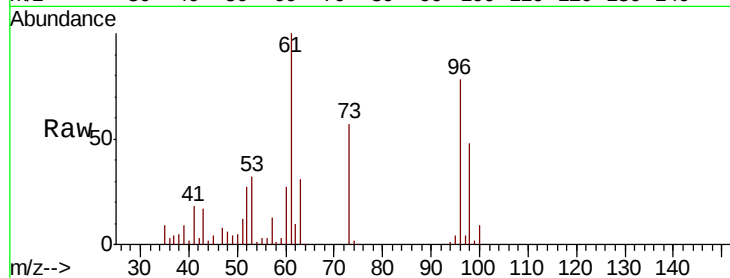
Tot Ion: 96 Resp: 335788

Ion Ratio Lower Upper

96 100

61 128.3 104.2 156.4

98 61.1 52.8 79.2



#22

Diisopropyl ether

Concen: 20.220 ug/l

RT: 4.84 min Scan# 337

Delta R.T. -0.02 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

Tgt Ion: 45 Resp: 1008181

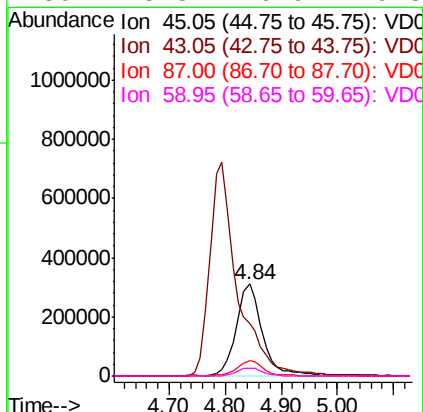
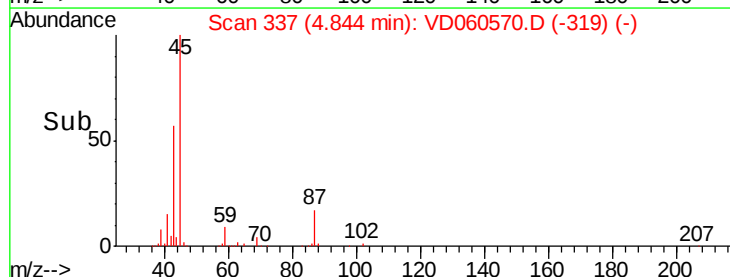
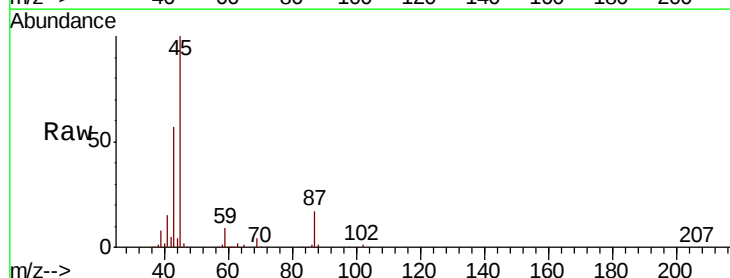
Ion Ratio Lower Upper

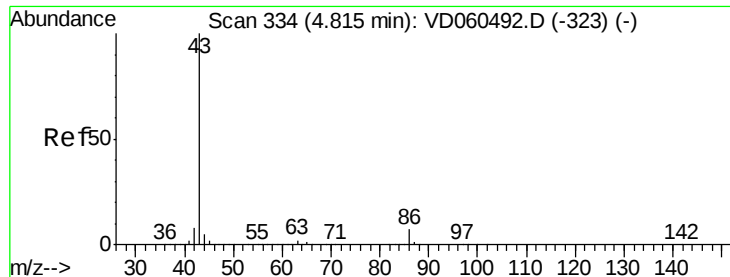
45 100

43 57.4 48.6 73.0

87 16.5 14.0 21.0

59 8.8 6.9 10.3





#23

Vinyl Acetate

Concen: 100.818 ug/l

RT: 4.79 min Scan# 332

Delta R.T. -0.02 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

Instrument :

MSVOA_D

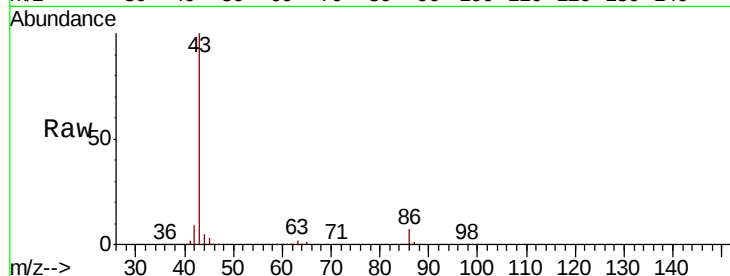
ClientSampleId :

Tot Ion: 43 Resp: 2490556

Ion Ratio Lower Upper

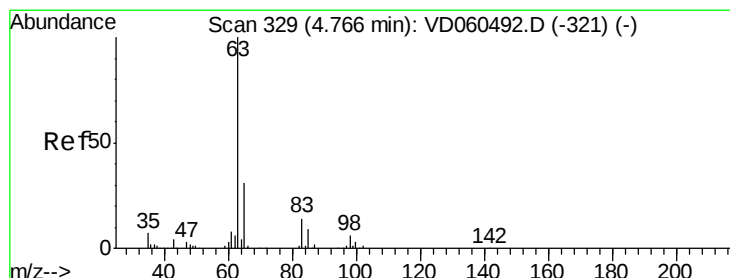
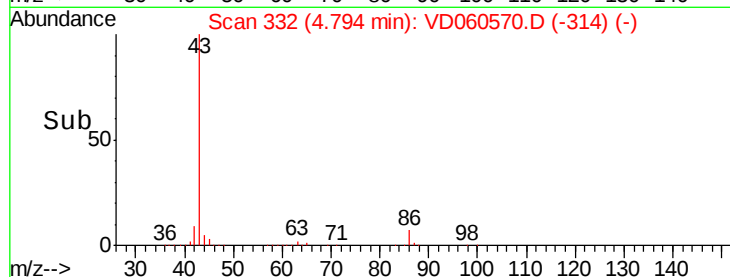
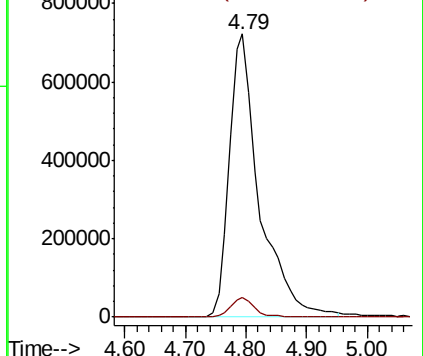
43 100

86 7.0 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: 20.847 ug/l

RT: 4.75 min Scan# 327

Delta R.T. -0.02 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

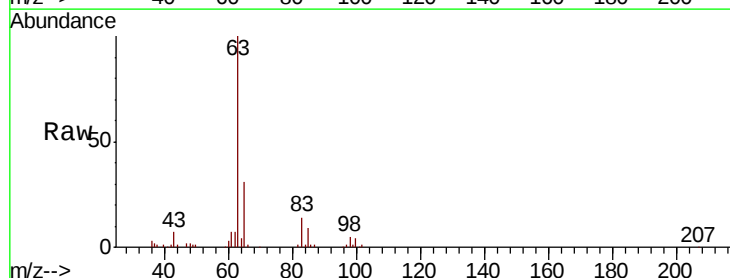
Tgt Ion: 63 Resp: 539984

Ion Ratio Lower Upper

63 100

98 5.3 2.8 8.3

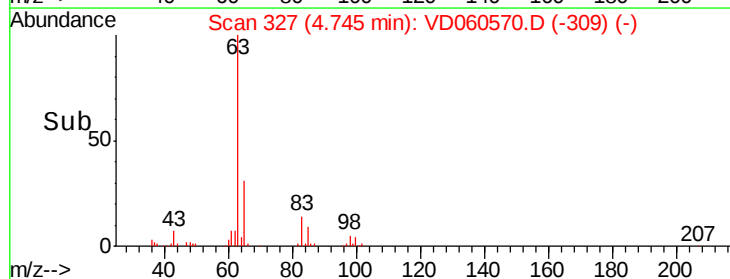
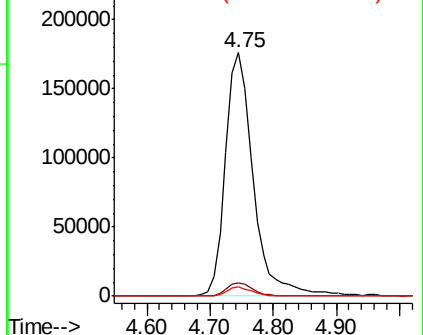
100 3.8 1.7 5.1

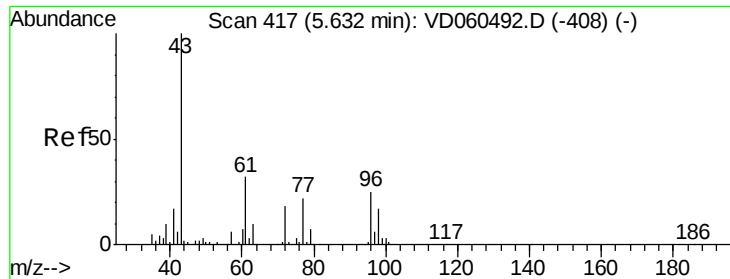


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 95.287 ug/l

RT: 5.60 min Scan# 414

Delta R.T. -0.03 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

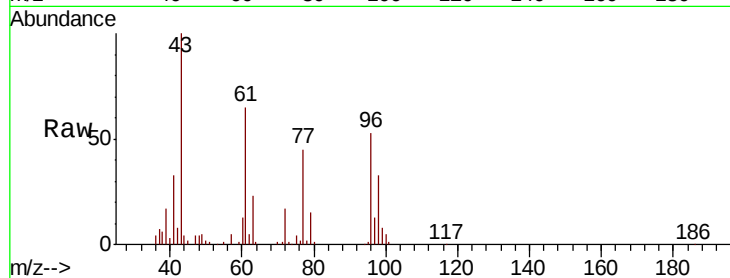
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 311898

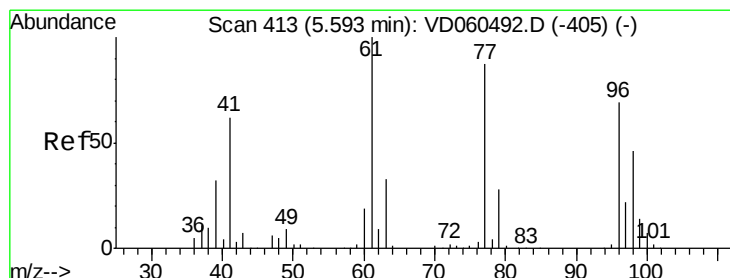
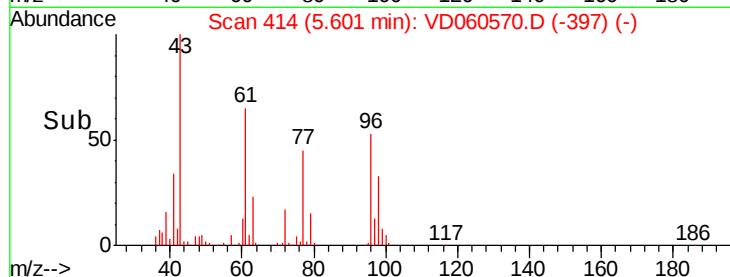
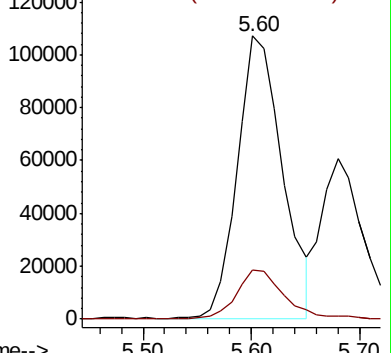
Ion Ratio Lower Upper

43 100

72 17.3 14.6 21.8



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 21.306 ug/l

RT: 5.57 min Scan# 411

Delta R.T. -0.02 min

Lab File: VD060570.D

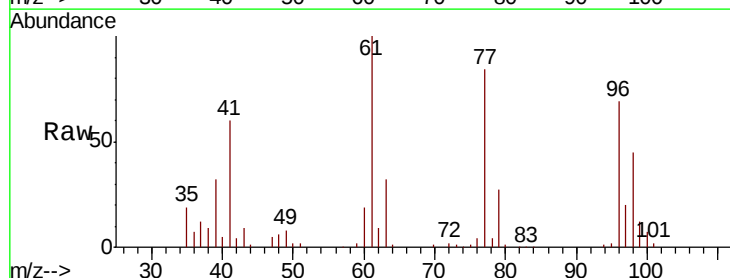
Acq: 14 Dec 2018 13:44

Tgt Ion: 77 Resp: 426334

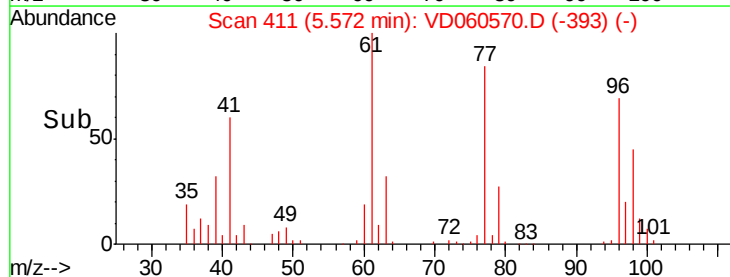
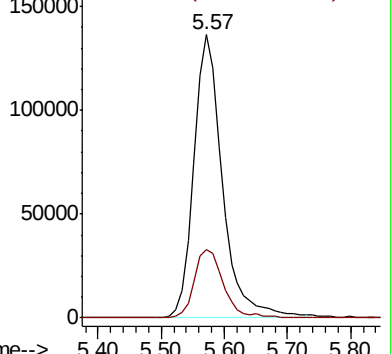
Ion Ratio Lower Upper

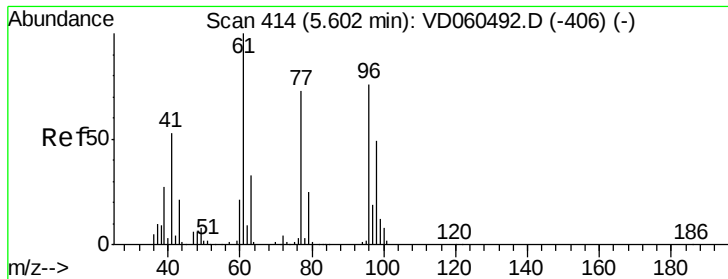
77 100

97 24.1 12.7 38.0



Abundance Ion 76.95 (76.65 to 77.65): VDC
Ion 96.85 (96.55 to 97.55): VDC



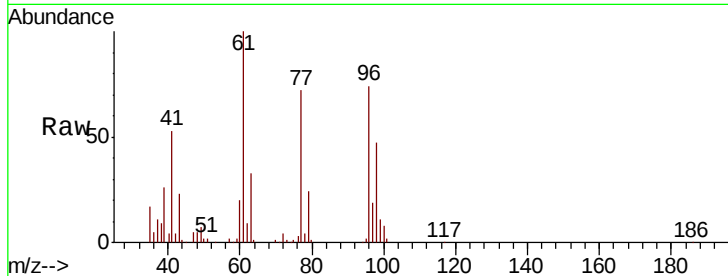


#27

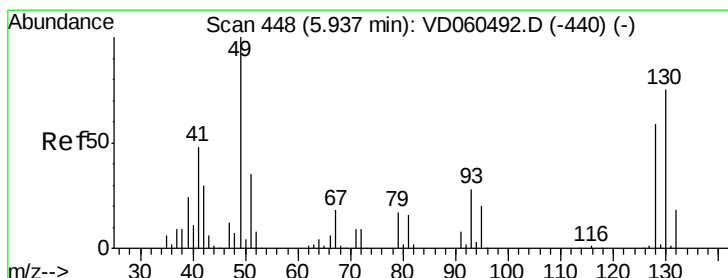
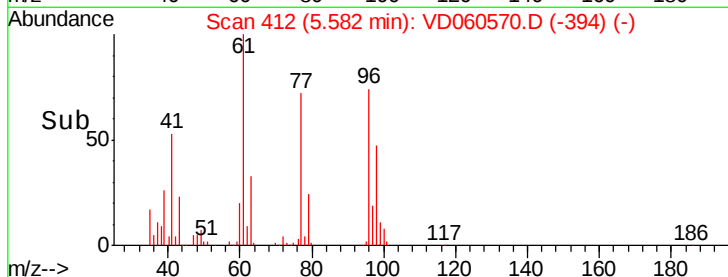
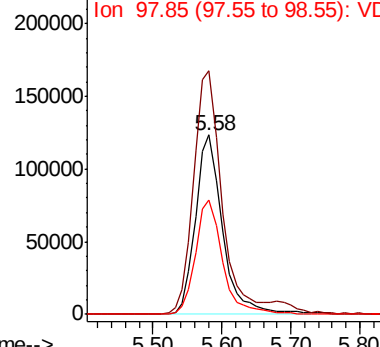
cis-1,2-Dichloroethene
Concen: 20.794 ug/l
RT: 5.58 min Scan# 412
Delta R.T. -0.02 min
Lab File: VD060570.D
Acq: 14 Dec 2018 13:44

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 96 Resp: 336631
Ion Ratio Lower Upper
96 100
61 135.8 0.0 263.6
98 63.7 0.0 128.2



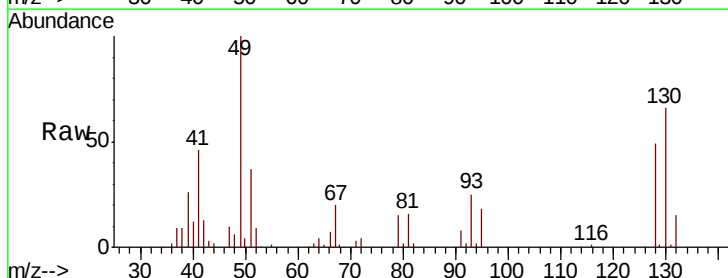
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



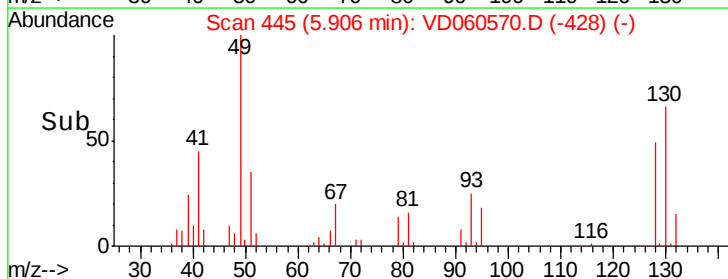
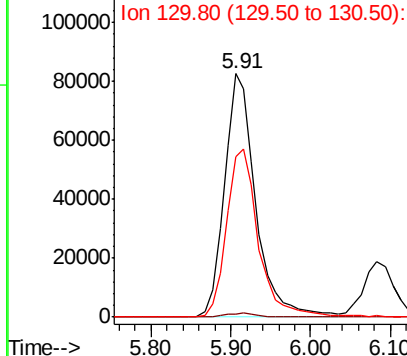
#28

Bromochloromethane
Concen: 19.721 ug/l
RT: 5.91 min Scan# 445
Delta R.T. -0.03 min
Lab File: VD060570.D
Acq: 14 Dec 2018 13:44

Tgt Ion: 49 Resp: 226292
Ion Ratio Lower Upper
49 100
129 1.3 0.0 3.4
130 65.9 59.8 89.6



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

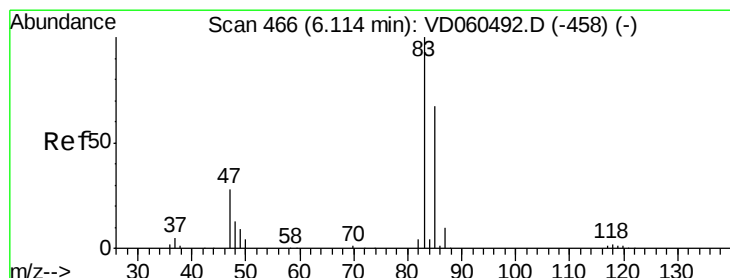
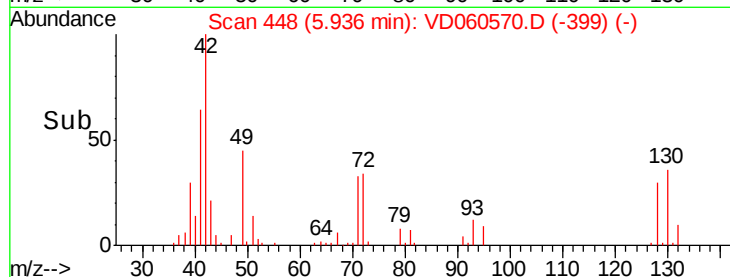
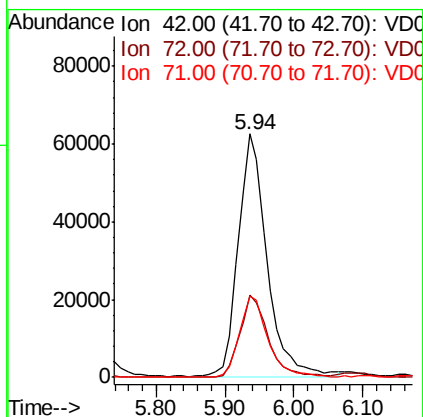
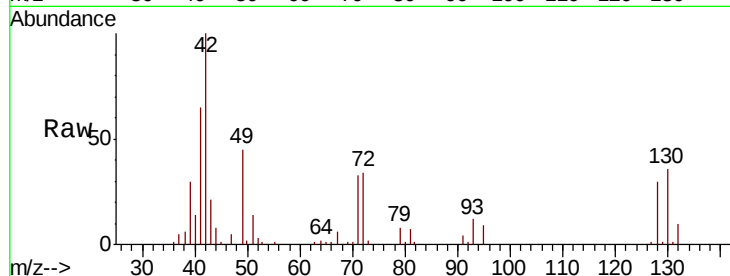




#29
Tetrahydrofuran
Concen: 98.734 ug/l
RT: 5.94 min Scan# 448
Delta R.T. -0.02 min
Lab File: VD060570.D
Acq: 14 Dec 2018 13:44

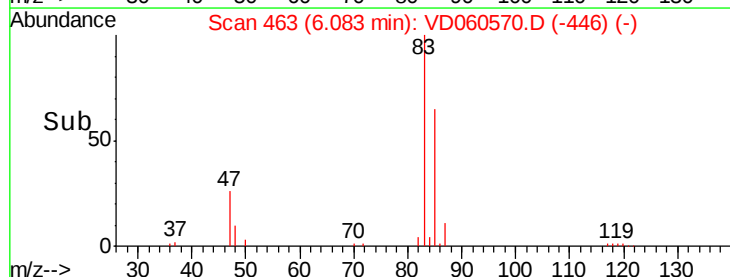
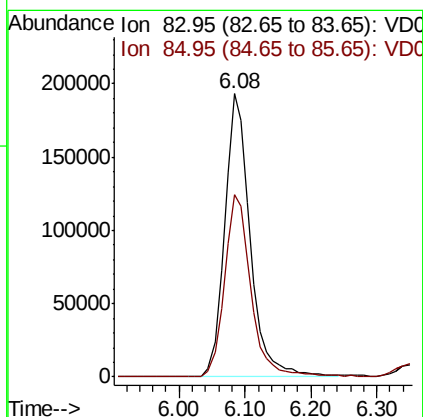
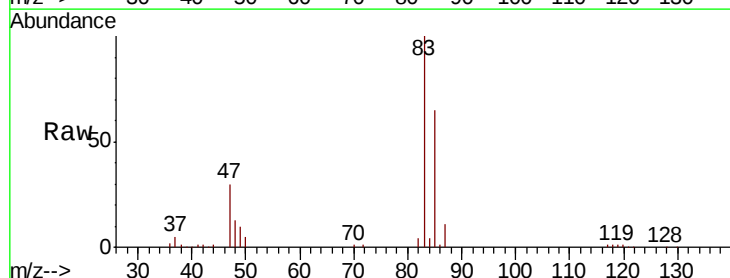
Instrument :
MSVOA_D
ClientSampleId :

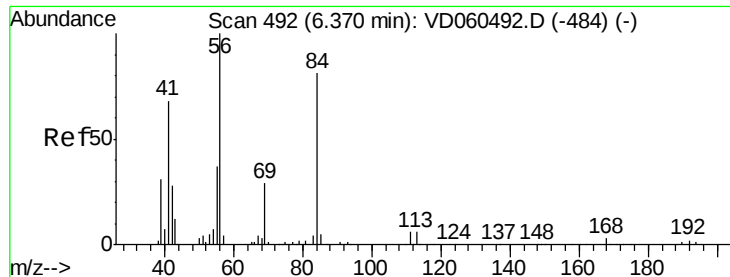
Tot Ion: 42 Resp: 183011
Ion Ratio Lower Upper
42 100
72 33.1 28.0 42.0
71 32.7 27.2 40.8



#30
Chloroform
Concen: 20.025 ug/l
RT: 6.08 min Scan# 463
Delta R.T. -0.03 min
Lab File: VD060570.D
Acq: 14 Dec 2018 13:44

Tgt Ion: 83 Resp: 522567
Ion Ratio Lower Upper
83 100
85 64.5 53.4 80.2





#31

Cvclohexane

Concen: 20.785 ug/l

RT: 6.35 min Scan# 490

Delta R.T. -0.02 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

Instrument :
MSVOA_D
ClientSampleId :

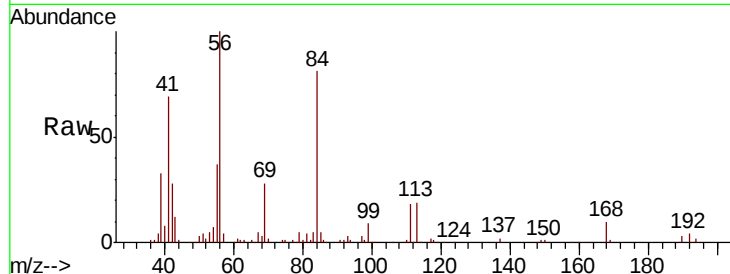
Tot Ion: 56 Resp: 509959

Ion Ratio Lower Upper

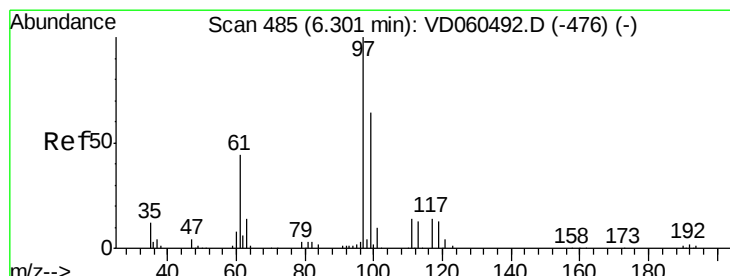
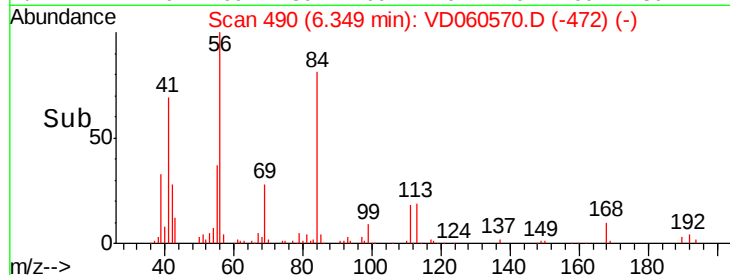
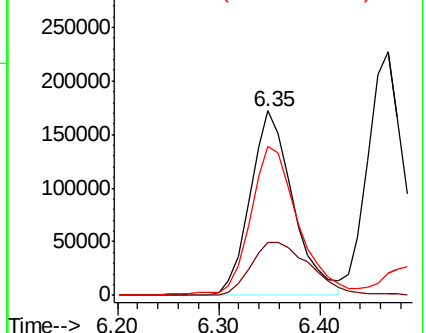
56 100

69 28.3 22.8 34.2

84 80.6 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: 21.273 ug/l

RT: 6.27 min Scan# 482

Delta R.T. -0.03 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

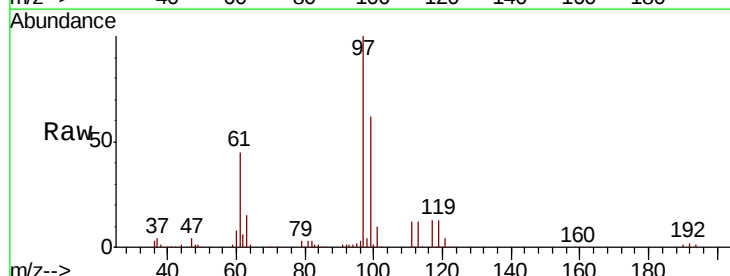
Tgt Ion: 97 Resp: 456375

Ion Ratio Lower Upper

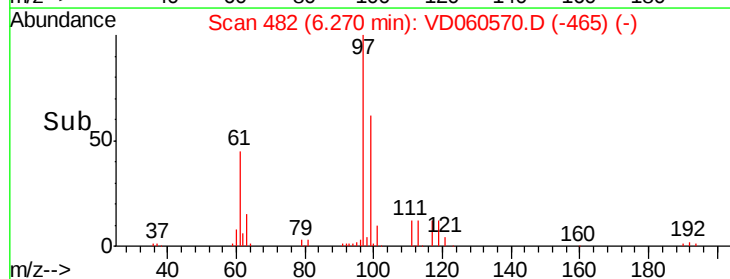
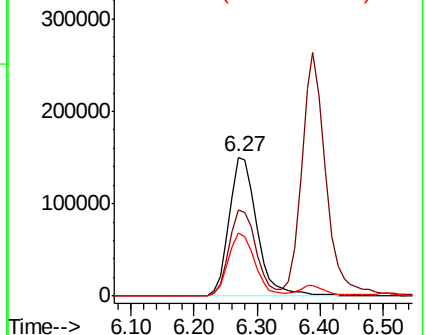
97 100

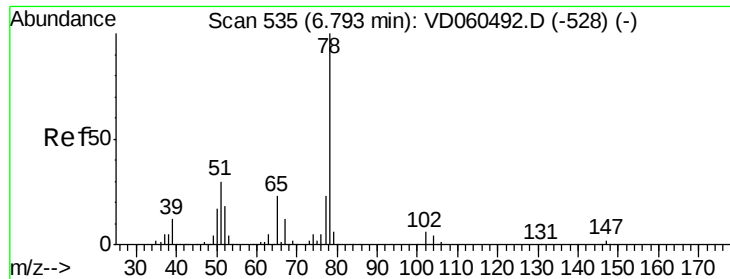
99 62.4 51.0 76.4

61 45.0 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: 21.273 ug/l

RT: 6.77 min Scan# 533

Delta R.T. -0.02 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

Instrument :

MSVOA_D

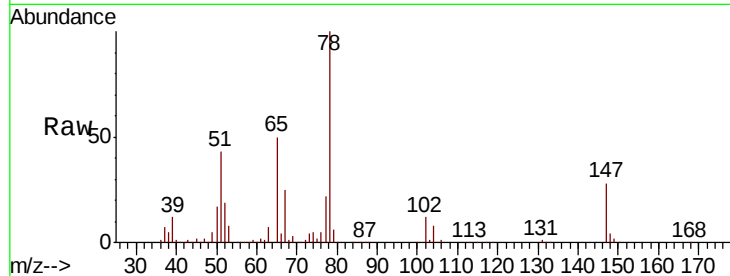
ClientSampled :

Tot Ion: 65 Resp: 518262

Ion Ratio Lower Upper

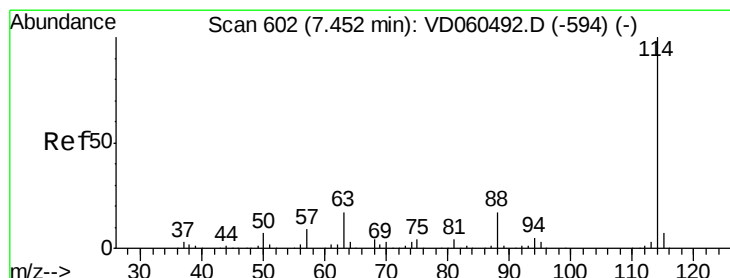
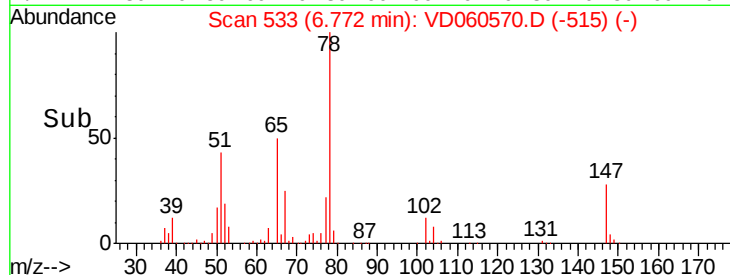
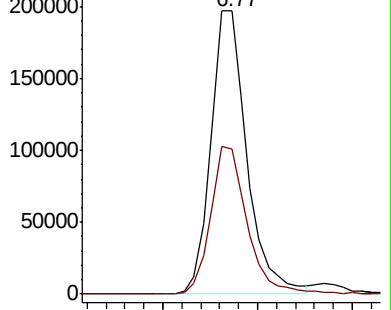
65 100

67 51.3 0.0 106.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.42 min Scan# 599

Delta R.T. -0.03 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

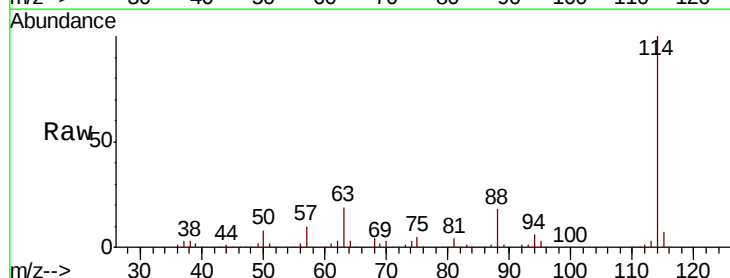
Tgt Ion: 114 Resp: 2009321

Ion Ratio Lower Upper

114 100

63 18.7 0.0 34.2

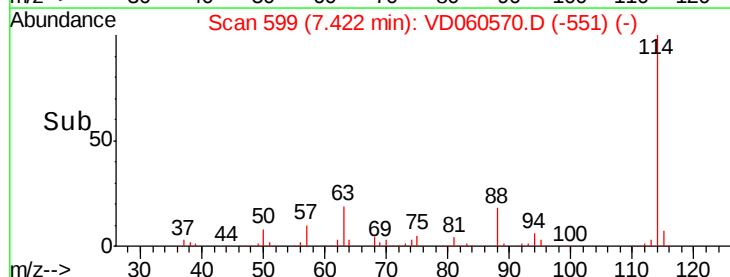
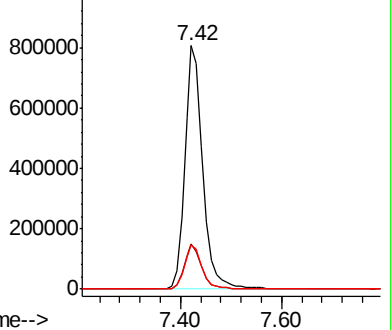
88 18.2 0.0 35.0

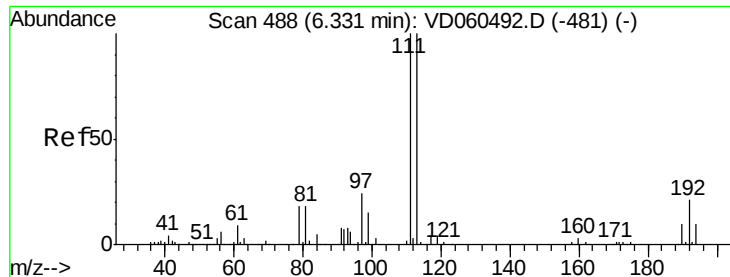


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

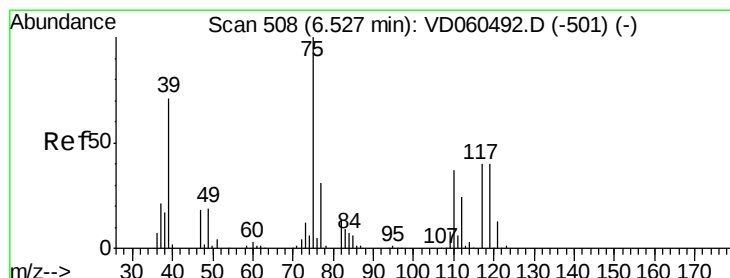
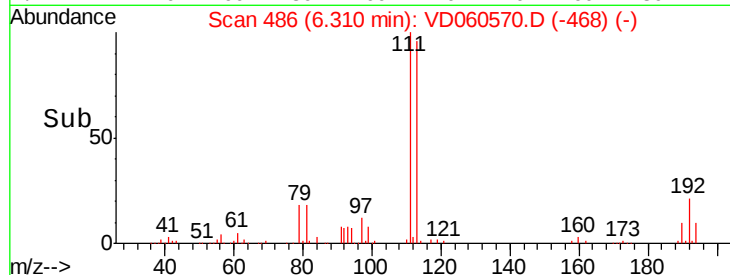
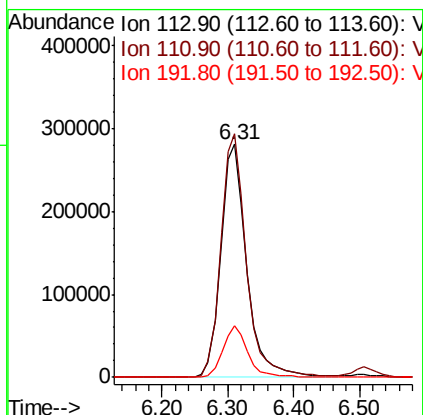
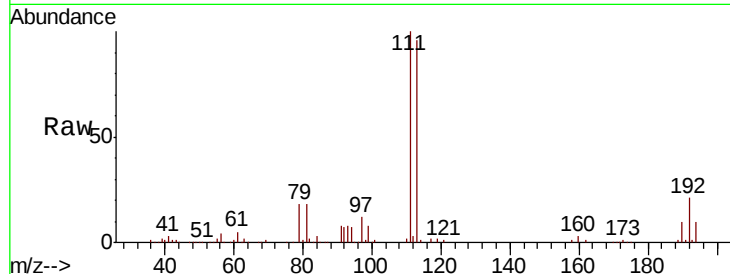




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.31 min Scan# 486
 Delta R.T. -0.02 min
 Lab File: VD060570.D
 Acq: 14 Dec 2018 13:44

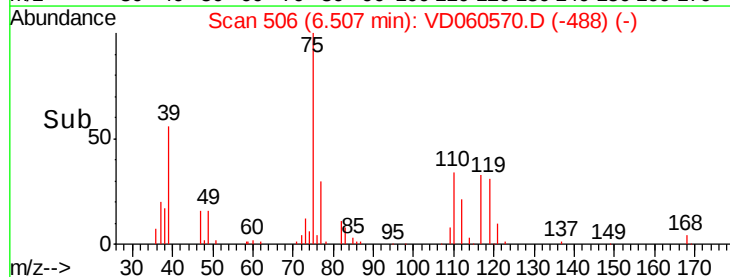
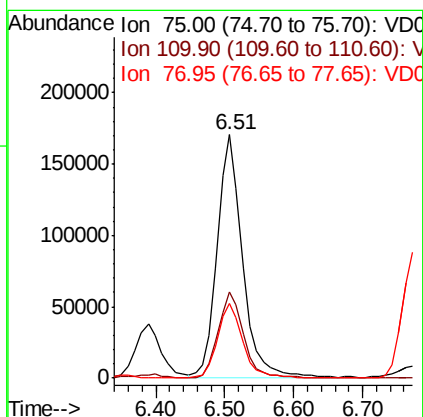
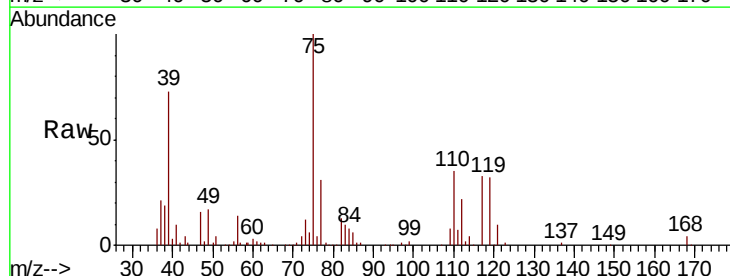
Instrument :
 MSVOA_D
 ClientSampleId :

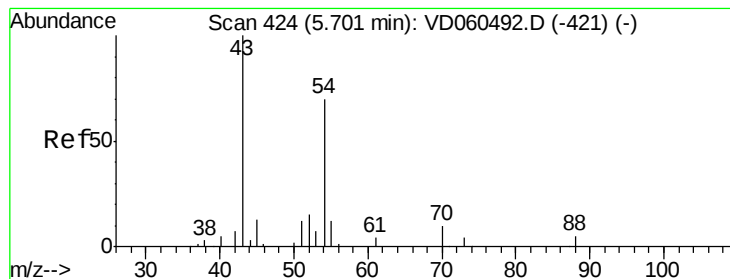
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.6	80.2	120.4
192	22.1	16.6	24.8



#36
 1,1-Dichloropropene
 Concen: 21.799 ug/l
 RT: 6.51 min Scan# 506
 Delta R.T. -0.02 min
 Lab File: VD060570.D
 Acq: 14 Dec 2018 13:44

Tgt Ion	Ratio	Lower	Upper
75	100		
110	35.2	18.3	54.8
77	30.7	24.6	37.0





#37

Ethyl Acetate

Concen: 19.997 ug/l

RT: 5.68 min Scan# 422

Delta R.T. -0.02 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

Instrument :

MSVOA_D

ClientSampleId :

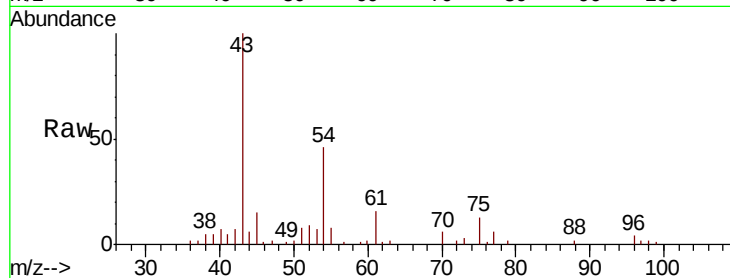
Tot Ion: 43 Resp: 170336

Ion Ratio Lower Upper

43 100

61 15.6 12.4 18.6

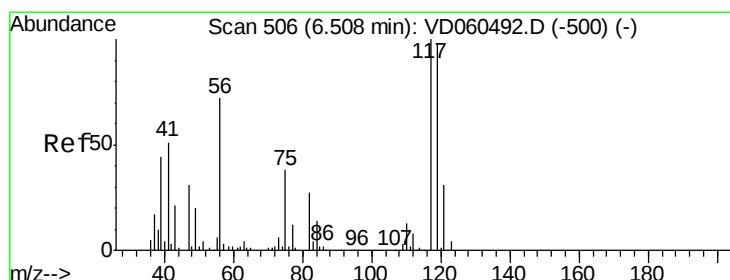
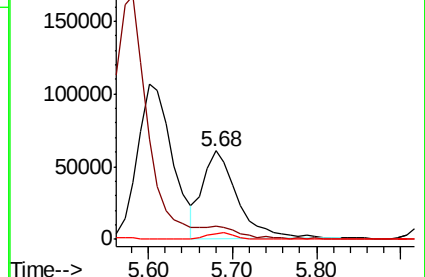
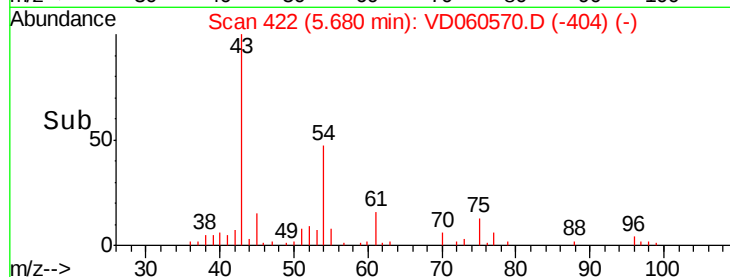
70 5.7 5.4 8.0



Abundance Ion 42.95 (42.65 to 43.65): VD060570.D (-404) (-)

Ion 60.95 (60.65 to 61.65): VD060570.D (-404) (-)

Ion 70.00 (69.70 to 70.70): VD060570.D (-404) (-)



#38

Carbon Tetrachloride

Concen: 21.753 ug/l

RT: 6.48 min Scan# 503

Delta R.T. -0.03 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

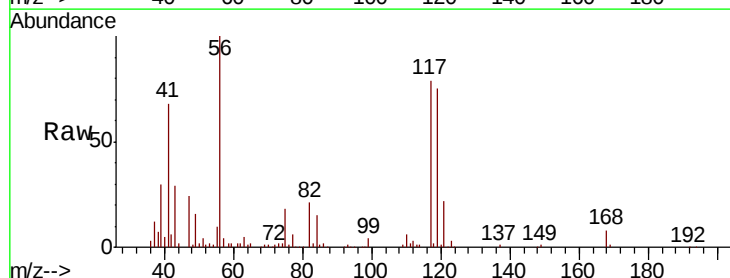
Tgt Ion: 117 Resp: 383553

Ion Ratio Lower Upper

117 100

119 95.6 76.8 115.2

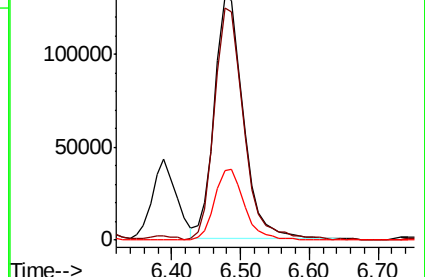
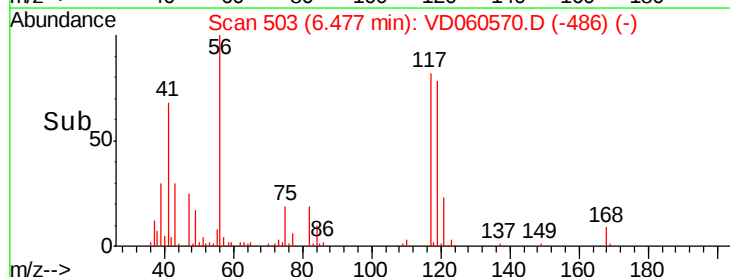
121 28.4 24.4 36.6

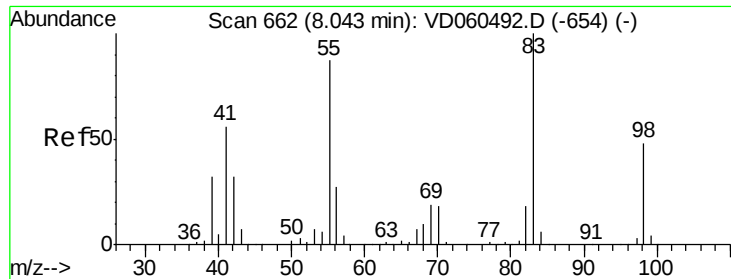


Abundance Ion 116.85 (116.55 to 117.55): VD060570.D (-486) (-)

Ion 118.85 (118.55 to 119.55): VD060570.D (-486) (-)

Ion 120.85 (120.55 to 121.55): VD060570.D (-486) (-)

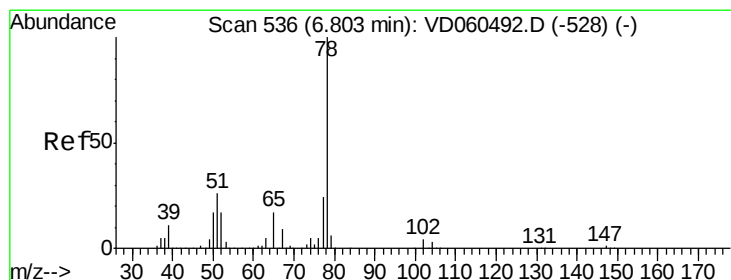
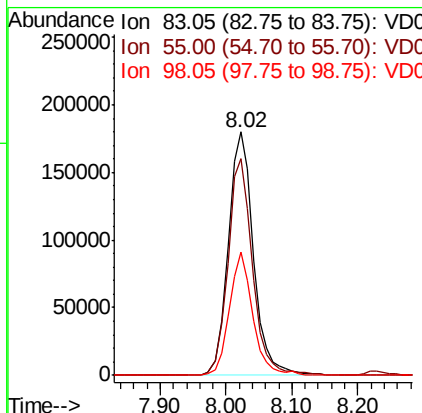
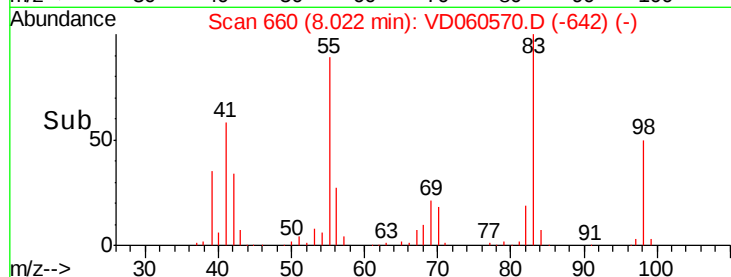
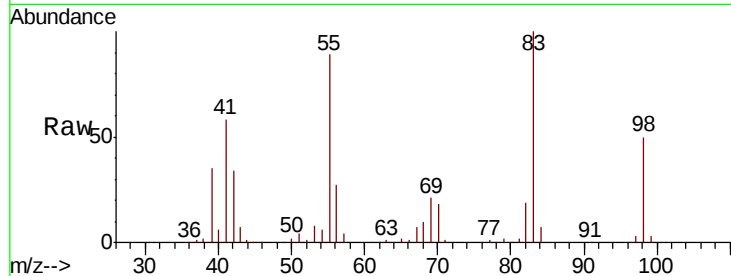




#39
Methvlcvclohexane
Concen: 21.539 ug/l
RT: 8.02 min Scan# 660
Delta R.T. -0.02 min
Lab File: VD060570.D
Acq: 14 Dec 2018 13:44

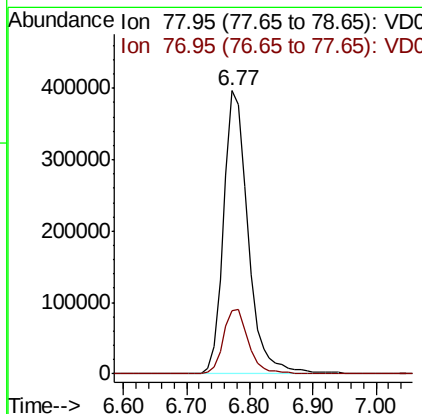
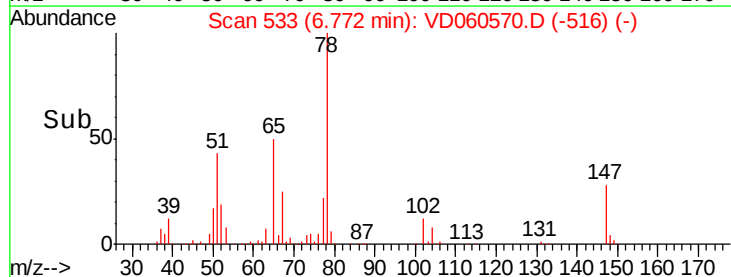
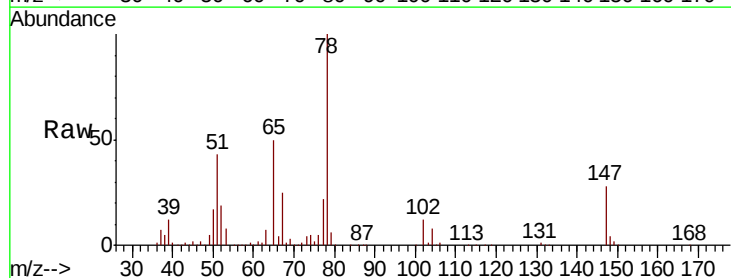
Instrument :
MSVOA_D
ClientSampled :

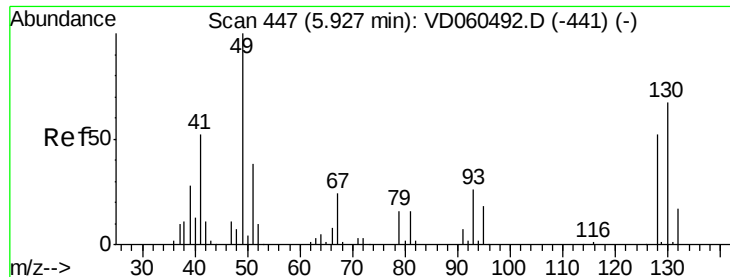
Tot Ion: 83 Resp: 482252
Ion Ratio Lower Upper
83 100
55 89.0 69.8 104.8
98 50.4 38.4 57.6



#40
Benzene
Concen: 21.350 ug/l
RT: 6.77 min Scan# 533
Delta R.T. -0.03 min
Lab File: VD060570.D
Acq: 14 Dec 2018 13:44

Tgt Ion: 78 Resp: 1071676
Ion Ratio Lower Upper
78 100
77 22.3 18.9 28.3





#41

Methacrylonitrile

Concen: 41.983 ug/l

RT: 5.93 min Scan# 447

Delta R.T. -0.00 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 41 Resp: 192773

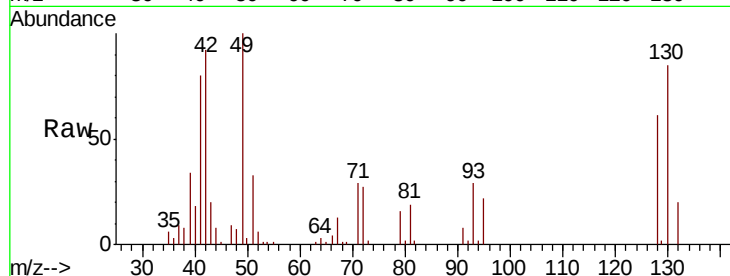
Ion Ratio Lower Upper

41 100

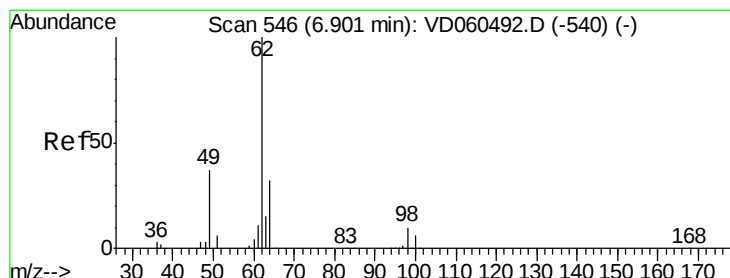
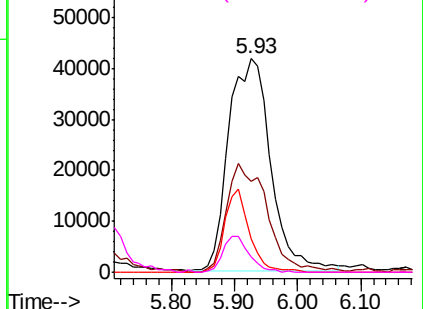
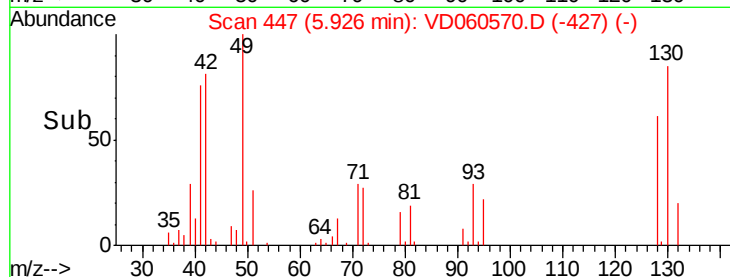
39 42.8 42.6 63.8

67 15.7 36.2 54.4#

52 7.4 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: 20.775 ug/l

RT: 6.88 min Scan# 544

Delta R.T. -0.02 min

Lab File: VD060570.D

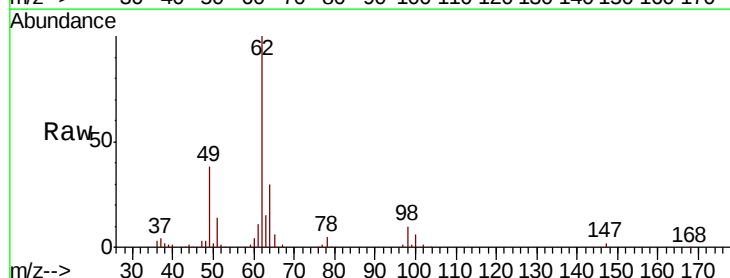
Acq: 14 Dec 2018 13:44

Tgt Ion: 62 Resp: 265141

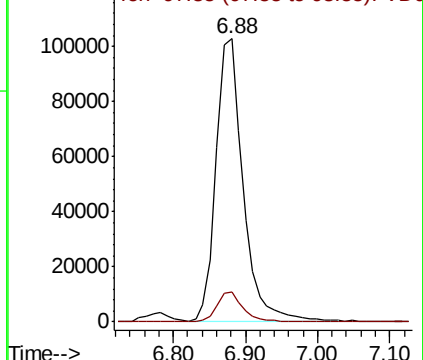
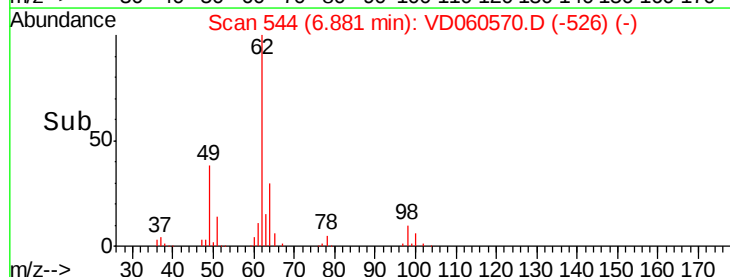
Ion Ratio Lower Upper

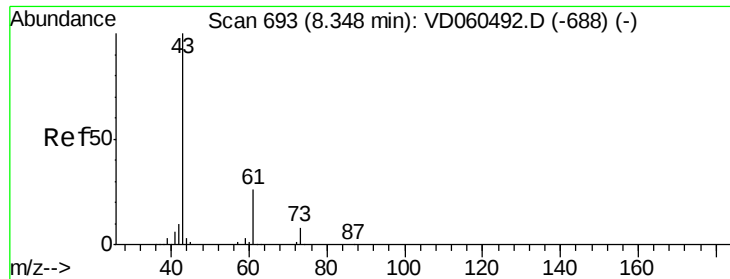
62 100

98 10.4 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: 19.958 ug/l

RT: 8.33 min Scan# 691

Delta R.T. -0.02 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

Instrument :

MSVOA_D

ClientSampleId :

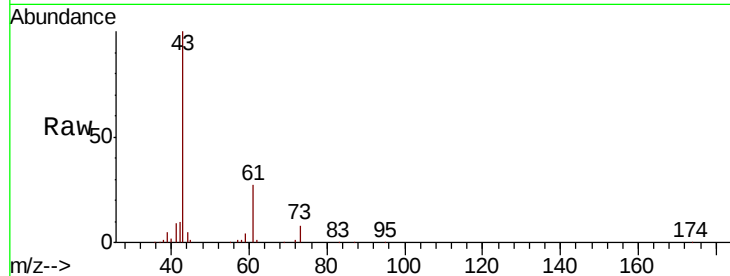
Tot Ion: 43 Resp: 209857

Ion Ratio Lower Upper

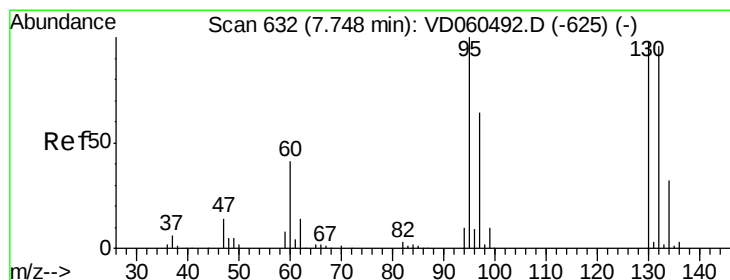
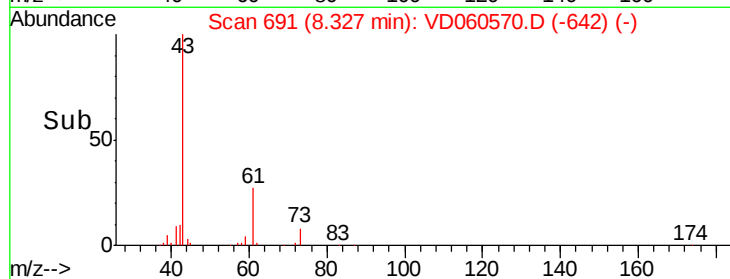
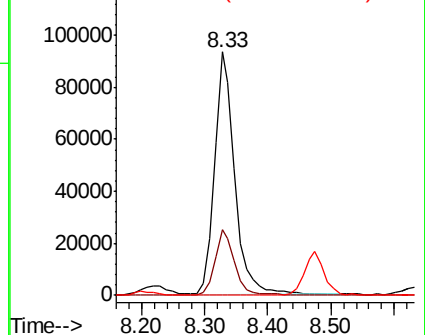
43 100

61 27.2 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: 20.979 ug/l

RT: 7.72 min Scan# 629

Delta R.T. -0.03 min

Lab File: VD060570.D

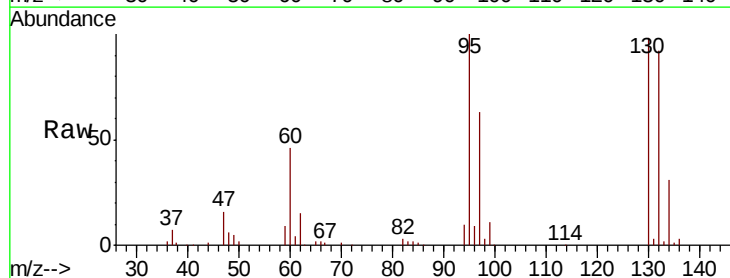
Acq: 14 Dec 2018 13:44

Tgt Ion: 130 Resp: 314703

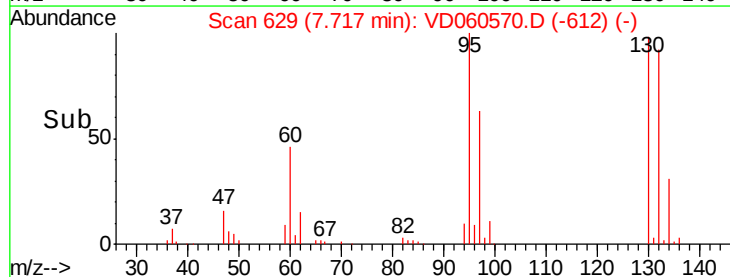
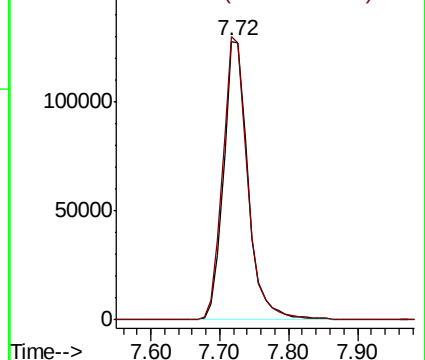
Ion Ratio Lower Upper

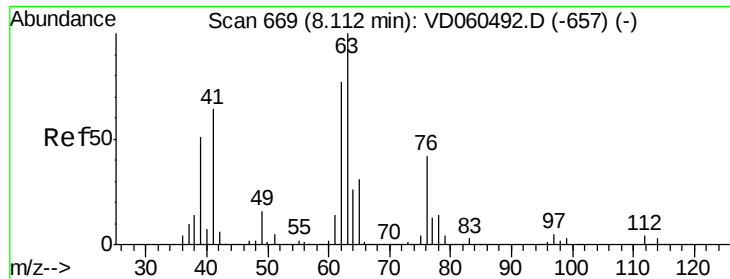
130 100

95 101.7 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: 20.474 ug/l

RT: 8.08 min Scan# 666

Delta R.T. -0.03 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

Instrument :

MSVOA_D

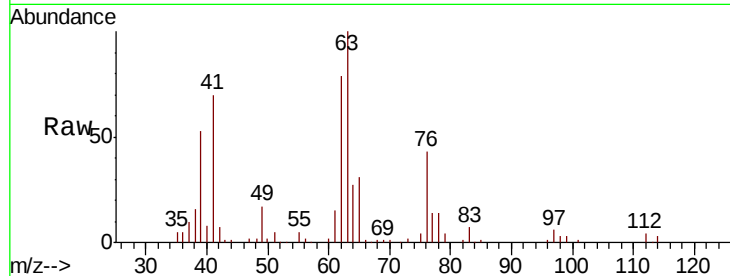
ClientSampled :

Tot Ion: 63 Resp: 254178

Ion Ratio Lower Upper

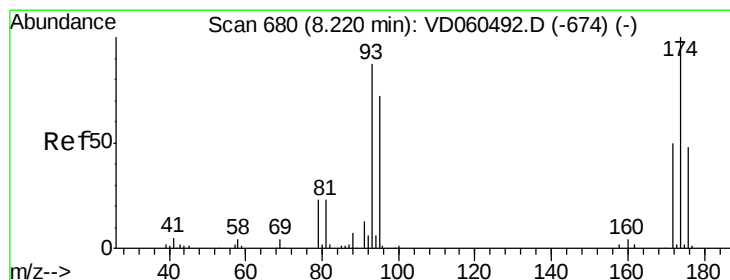
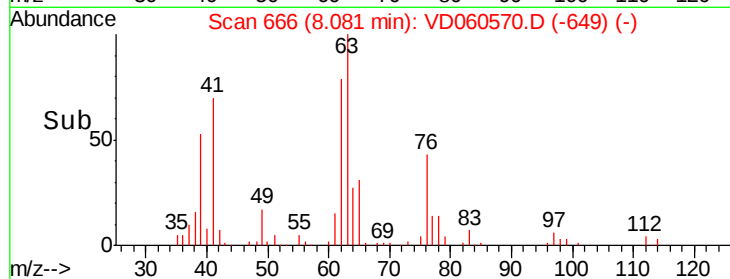
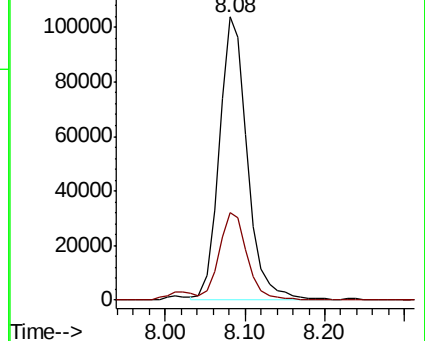
63 100

65 30.9 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: 20.536 ug/l

RT: 8.20 min Scan# 678

Delta R.T. -0.02 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

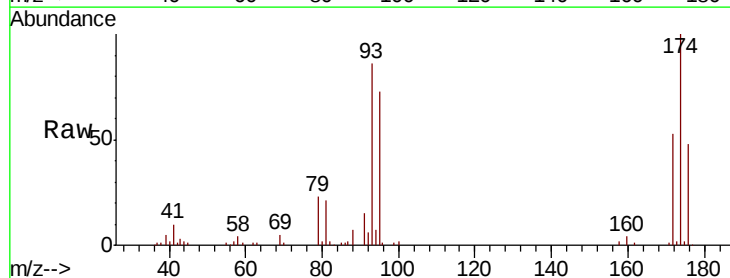
Tgt Ion: 93 Resp: 147301

Ion Ratio Lower Upper

93 100

95 84.1 65.6 98.4

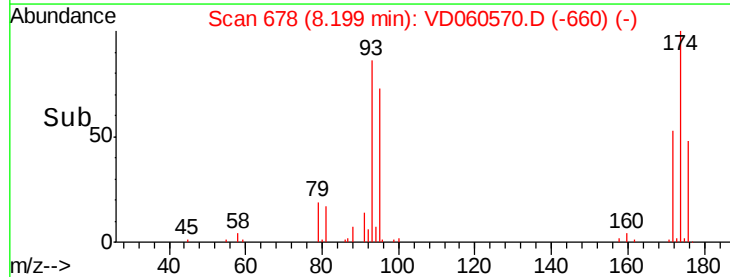
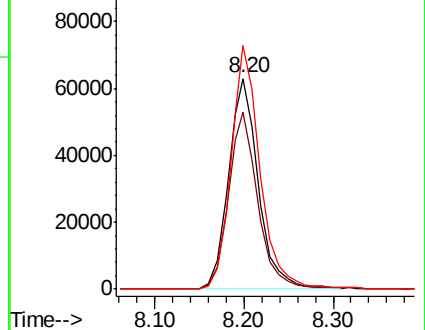
174 115.6 91.7 137.5

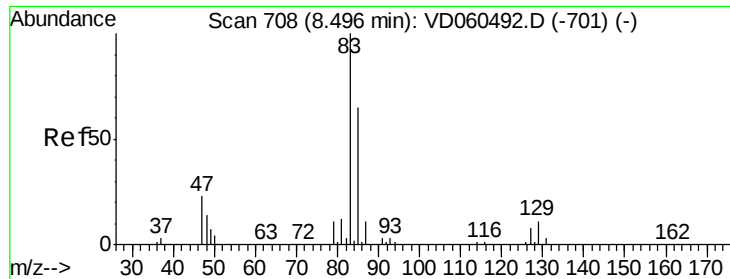


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC





#47

Bromodichloromethane

Concen: 20.997 ug/l

RT: 8.47 min Scan# 706

Delta R.T. -0.02 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

Instrument :

MSVOA_D

ClientSampleId :

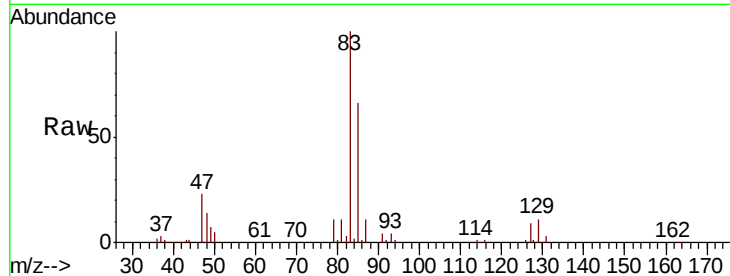
Tot Ion: 83 Resp: 357357

Ion Ratio Lower Upper

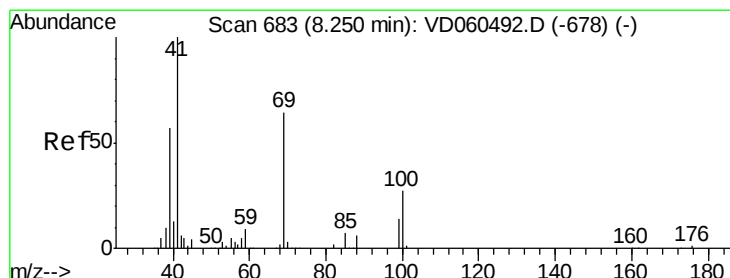
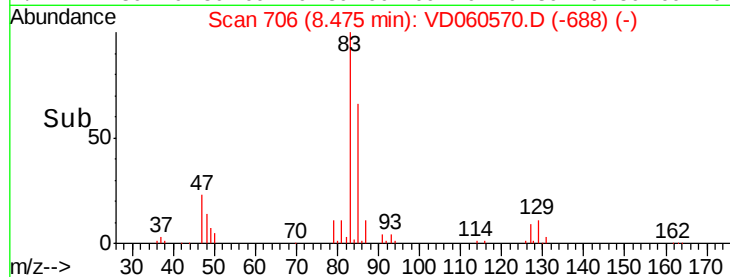
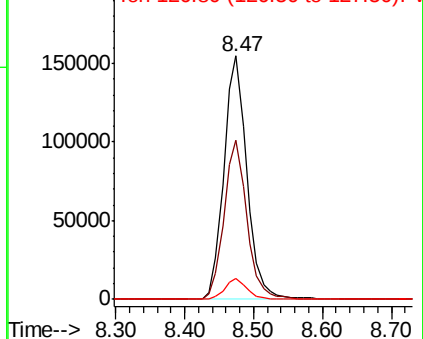
83 100

85 65.6 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: 20.486 ug/l

RT: 8.23 min Scan# 681

Delta R.T. -0.02 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

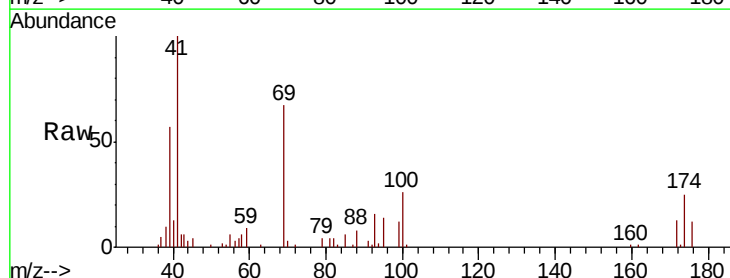
Tgt Ion: 41 Resp: 127456

Ion Ratio Lower Upper

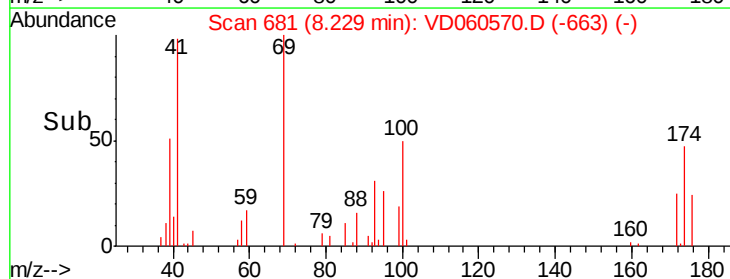
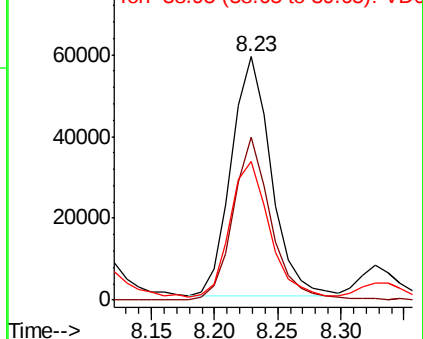
41 100

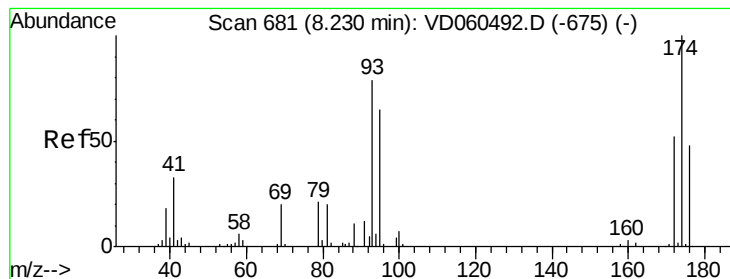
69 66.8 50.2 75.4

39 56.9 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: 396.472 ug/l

RT: 8.21 min Scan# 679

Delta R.T. -0.02 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

Instrument :

MSVOA_D

ClientSampleId :

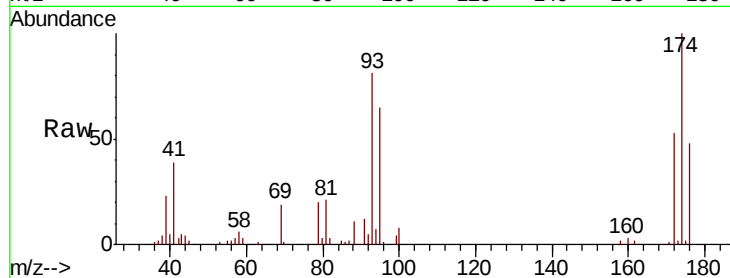
Tot Ion: 88 Resp: 22356

Ion Ratio Lower Upper

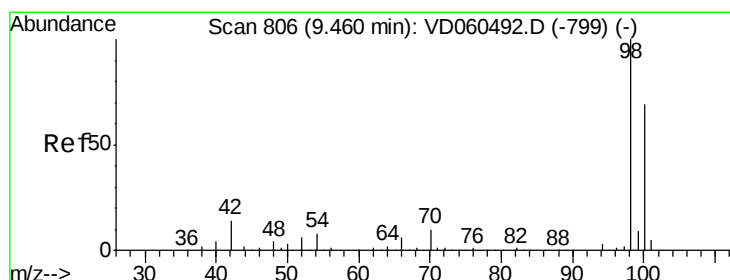
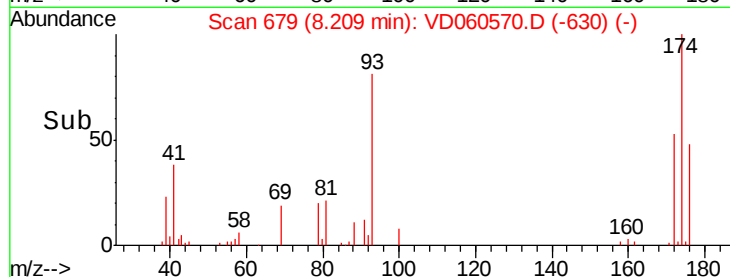
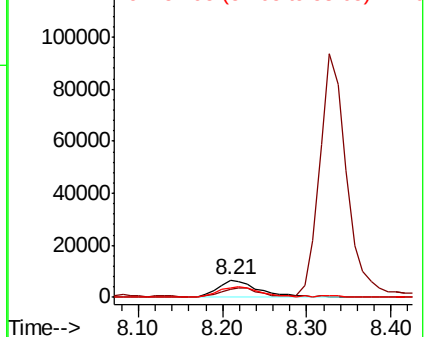
88 100

43 48.4 32.9 49.3

58 55.1 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: 396.472 ug/l

RT: 9.44 min Scan# 804

Delta R.T. -0.02 min

Lab File: VD060570.D

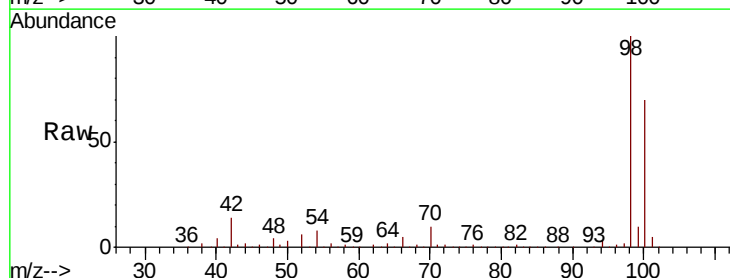
Acq: 14 Dec 2018 13:44

Tgt Ion: 98 Resp: 2235664

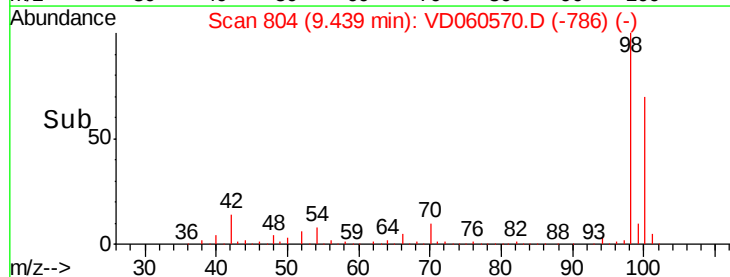
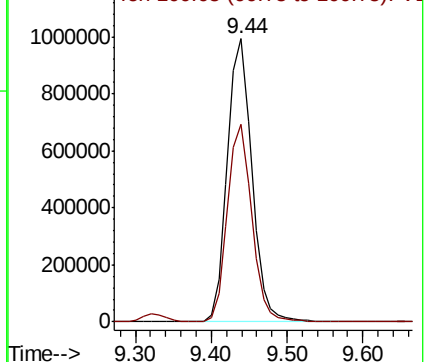
Ion Ratio Lower Upper

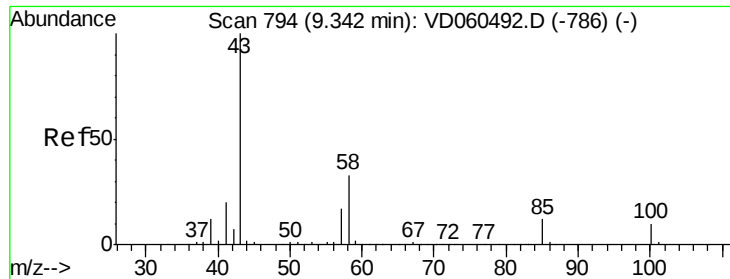
98 100

100 69.9 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: 100.368 ug/l

RT: 9.32 min Scan# 792

Delta R.T. -0.02 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

Instrument :

MSVOA_D

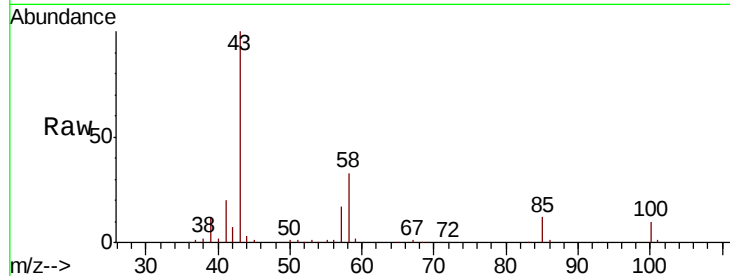
ClientSampleId :

Tot Ion: 43 Resp: 656468

Ion Ratio Lower Upper

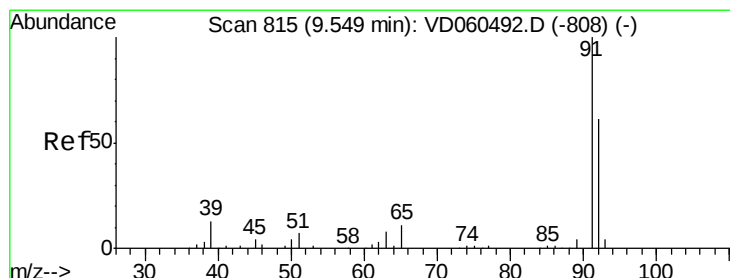
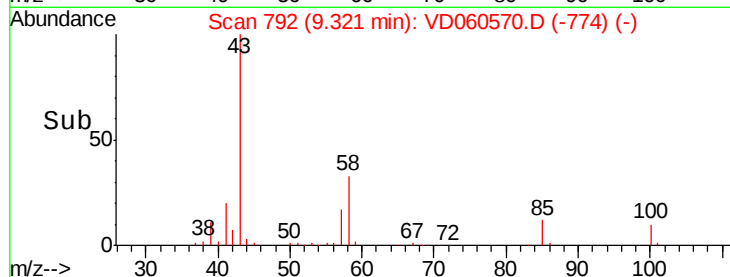
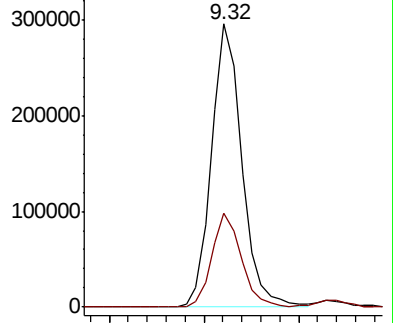
43 100

58 33.1 26.3 39.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 21.440 ug/l

RT: 9.53 min Scan# 813

Delta R.T. -0.02 min

Lab File: VD060570.D

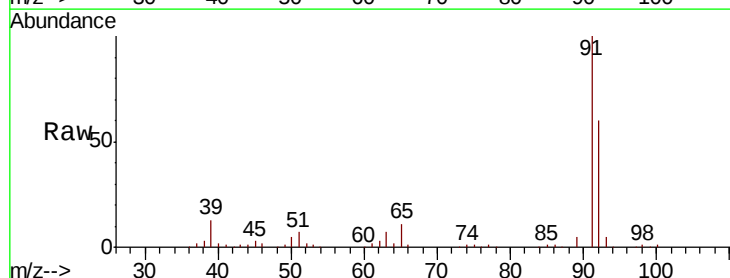
Acq: 14 Dec 2018 13:44

Tgt Ion: 92 Resp: 672658

Ion Ratio Lower Upper

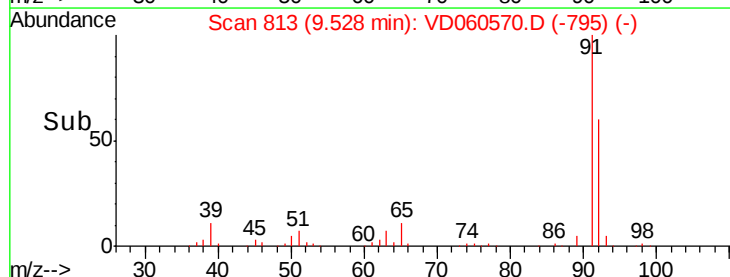
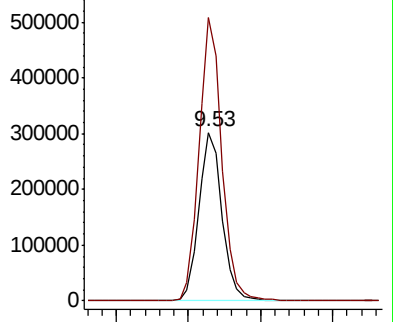
92 100

91 168.0 131.7 197.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#53

t-1,3-Dichloropropene

Concen: 20.900 ug/l

RT: 9.90 min Scan# 851

Delta R.T. -0.02 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

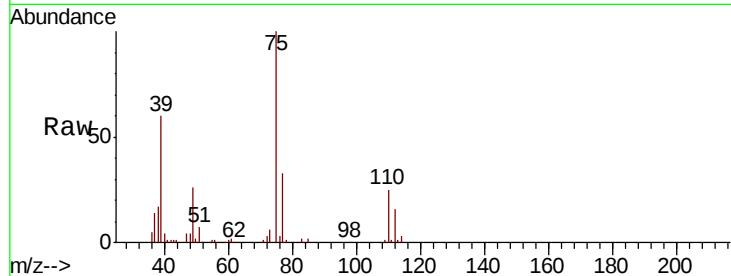
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 75 Resp: 292279

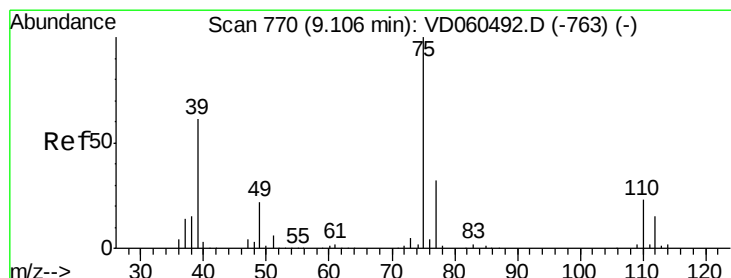
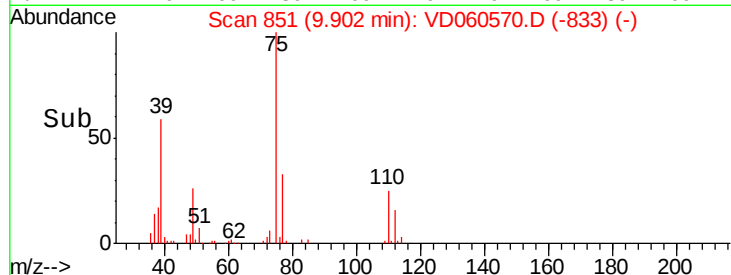
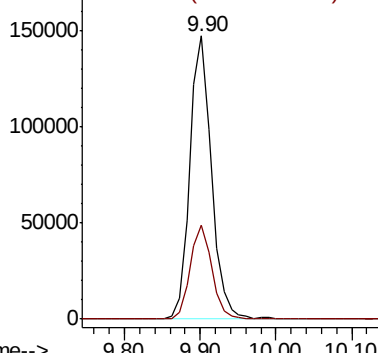
Ion Ratio Lower Upper

75 100

77 33.1 26.2 39.2



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



#54

cis-1,3-Dichloropropene

Concen: 20.967 ug/l

RT: 9.08 min Scan# 768

Delta R.T. -0.02 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

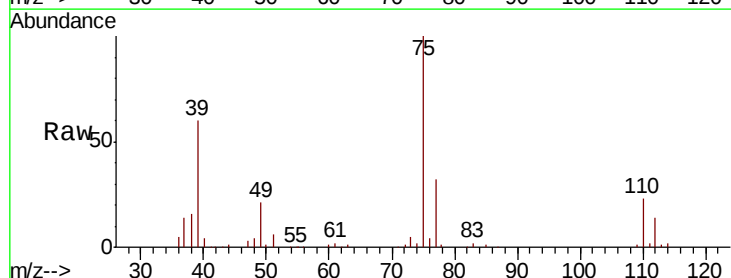
Tgt Ion: 75 Resp: 385239

Ion Ratio Lower Upper

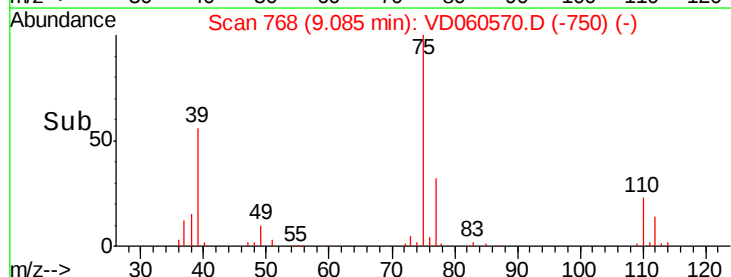
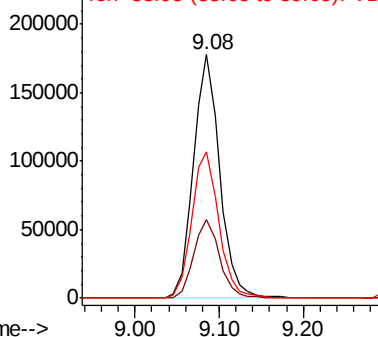
75 100

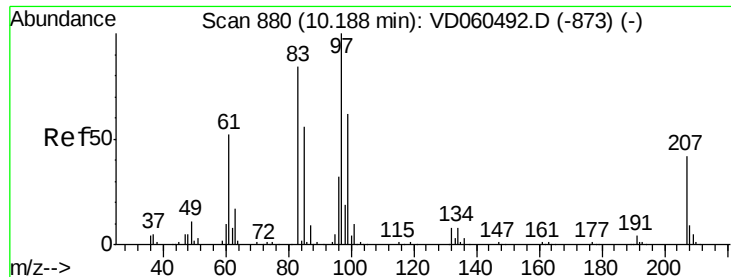
77 32.5 25.6 38.4

39 59.9 48.6 73.0



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 76.95 (76.65 to 77.65): VDC
Ion 38.95 (38.65 to 39.65): VDC

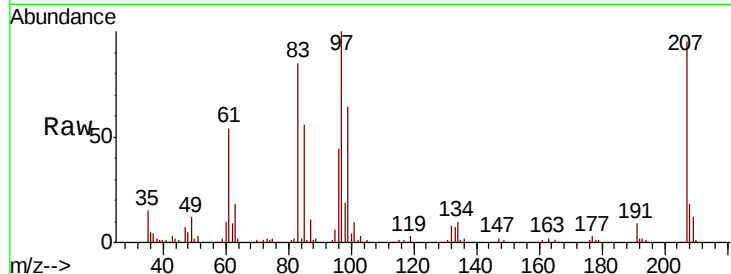




#55
 1,1,2-Trichloroethane
 Concen: 20.629 ug/l
 RT: 10.17 min Scan# 878
 Delta R.T. -0.02 min
 Lab File: VD060570.D
 Acq: 14 Dec 2018 13:44

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:	97	Resp:	180232
Ion	Ratio	Lower	Upper
97	100		
83	85.2	67.2	100.8
85	56.1	44.5	66.7
99	63.8	49.3	73.9



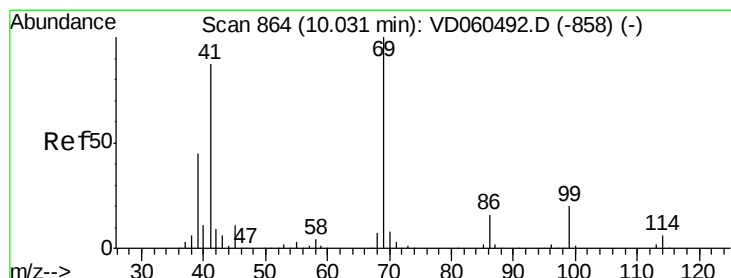
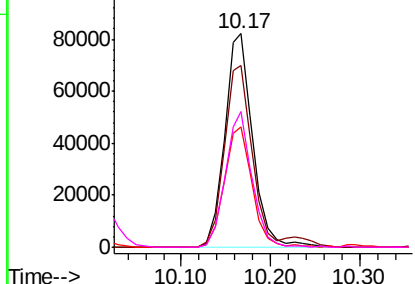
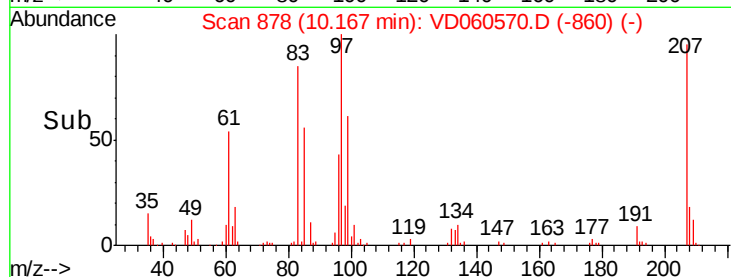
Abundance

Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

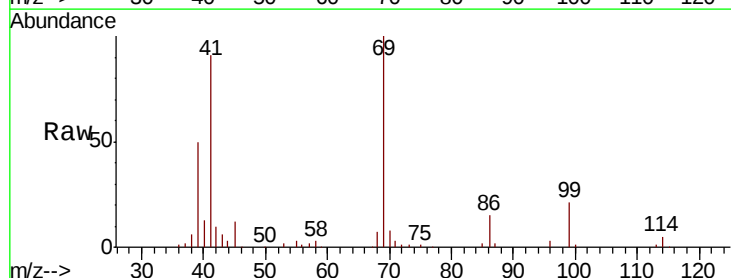
Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#56
 Ethyl methacrylate
 Concen: 20.541 ug/l
 RT: 10.01 min Scan# 862
 Delta R.T. -0.02 min
 Lab File: VD060570.D
 Acq: 14 Dec 2018 13:44

Tgt Ion:	69	Resp:	162420
Ion	Ratio	Lower	Upper
69	100		
41	90.7	69.8	104.8
39	50.4	37.5	56.3

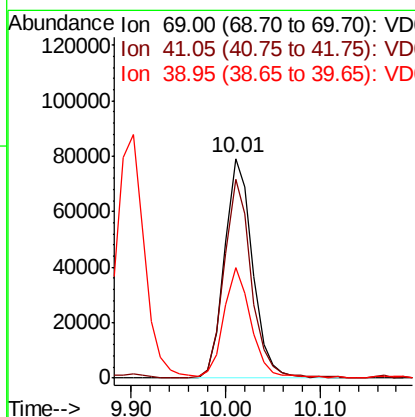
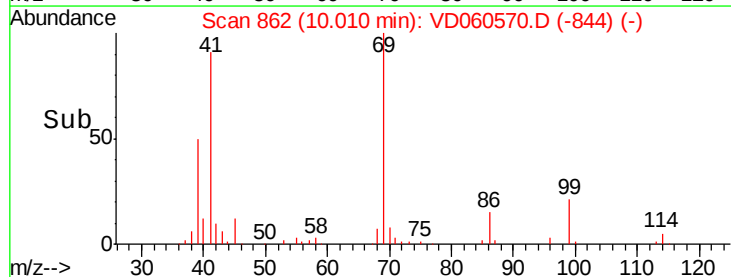


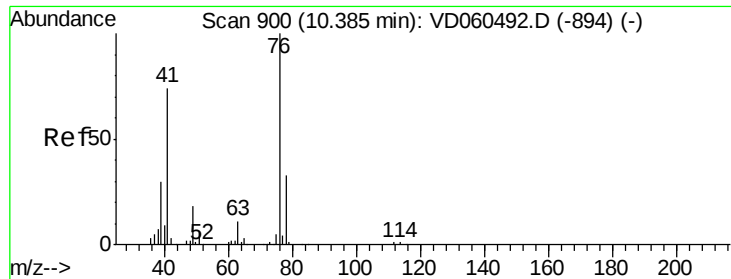
Abundance

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: 20.370 ug/l

RT: 10.36 min Scan# 898

Delta R.T. -0.02 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

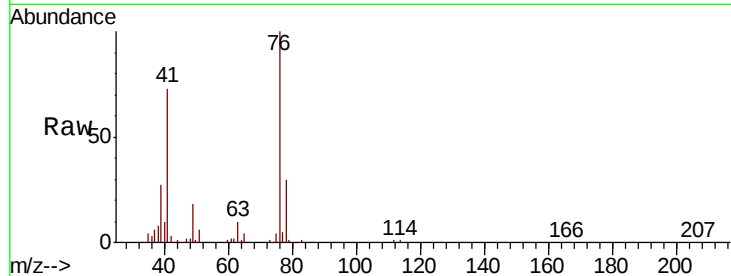
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 76 Resp: 275122

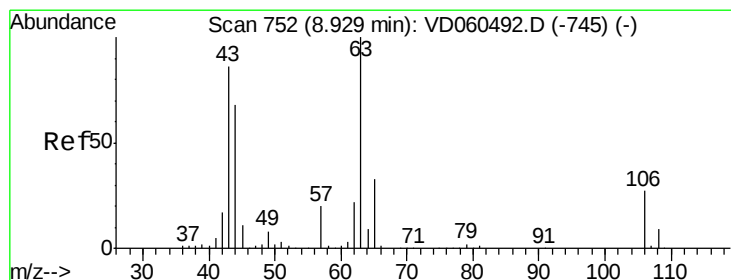
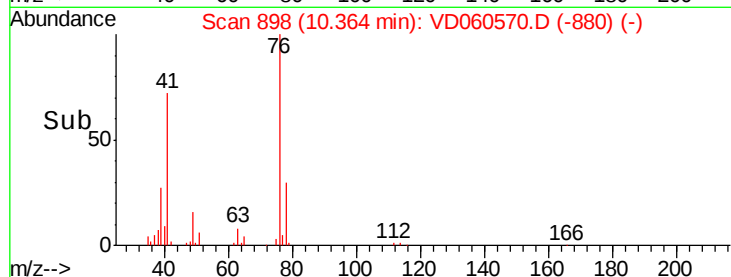
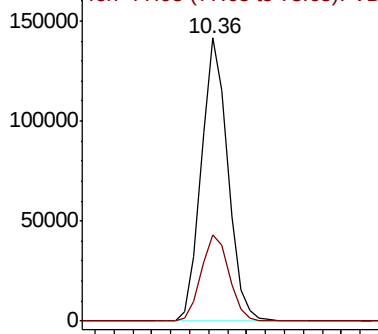
Ion Ratio Lower Upper

76 100

78 30.4 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: 109.892 ug/l

RT: 8.91 min Scan# 750

Delta R.T. -0.02 min

Lab File: VD060570.D

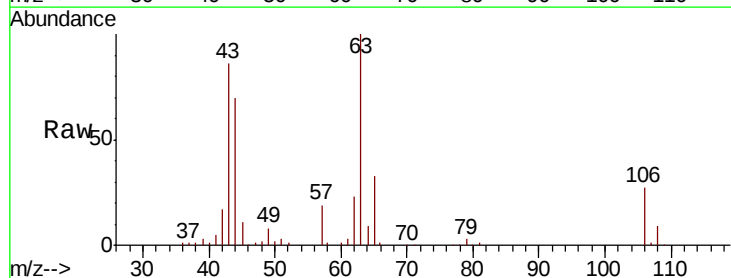
Acq: 14 Dec 2018 13:44

Tgt Ion: 63 Resp: 519918

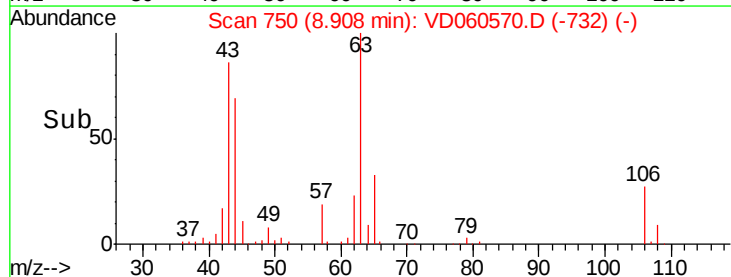
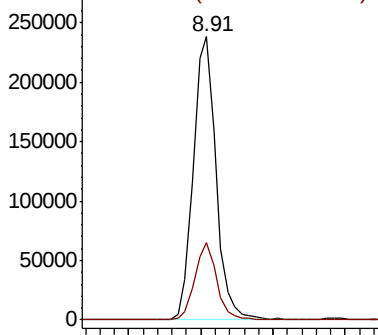
Ion Ratio Lower Upper

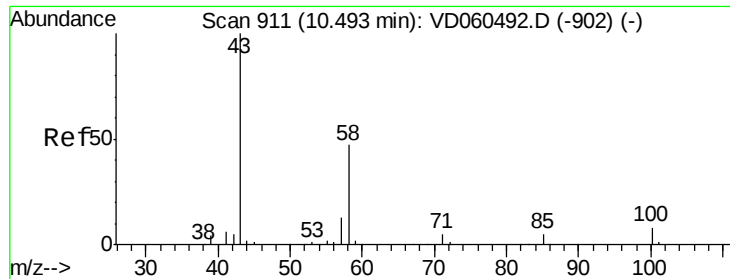
63 100

106 27.4 21.6 32.4



Abundance Ion 62.95 (62.65 to 63.65): VDC
Ion 105.95 (105.65 to 106.65): V

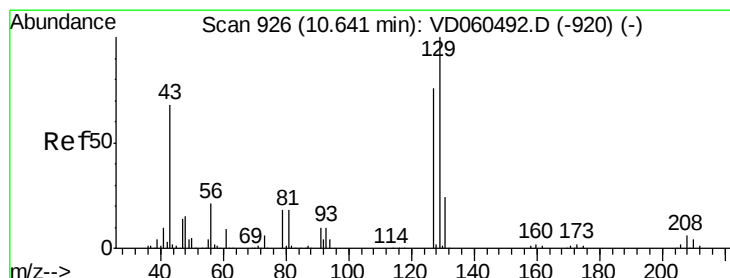
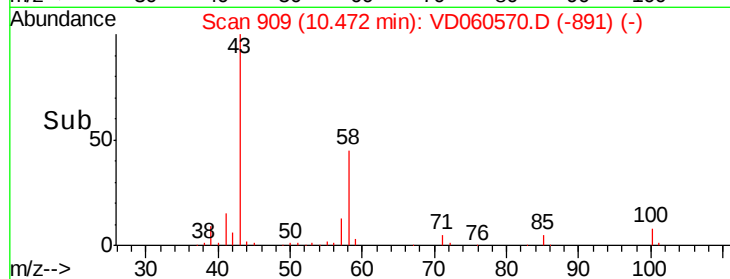
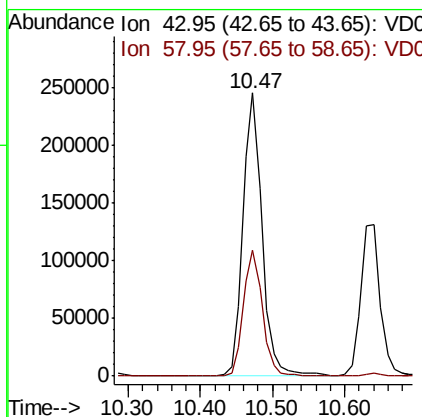
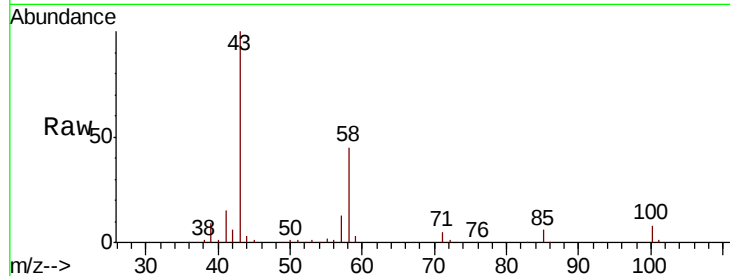




#59
2-Hexanone
Concen: 99.487 ug/l
RT: 10.47 min Scan# 909
Delta R.T. -0.02 min
Lab File: VD060570.D
Acq: 14 Dec 2018 13:44

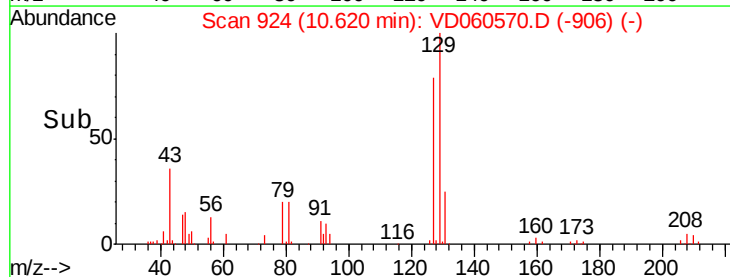
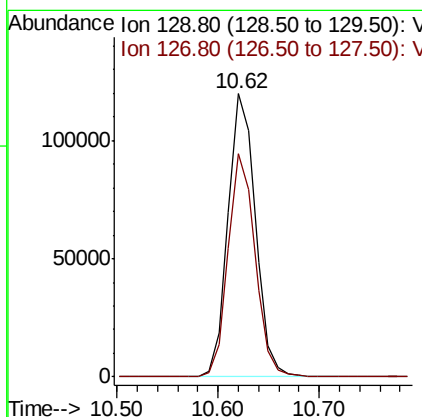
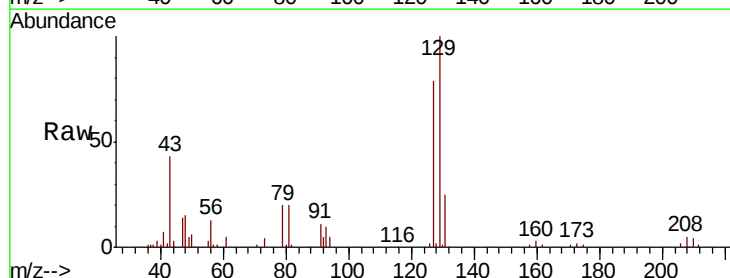
Instrument :
MSVOA_D
ClientSampleId :

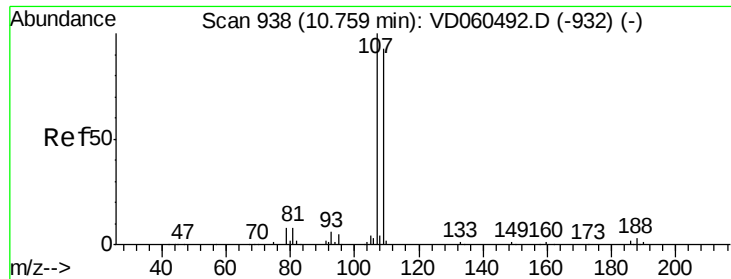
Tot Ion: 43 Resp: 454827
Ion Ratio Lower Upper
43 100
58 44.6 23.4 70.2



#60
Dibromochloromethane
Concen: 20.713 ug/l
RT: 10.62 min Scan# 924
Delta R.T. -0.02 min
Lab File: VD060570.D
Acq: 14 Dec 2018 13:44

Tgt Ion:129 Resp: 226257
Ion Ratio Lower Upper
129 100
127 78.9 38.1 114.3

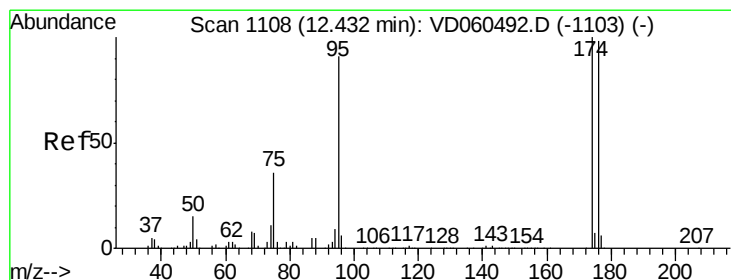
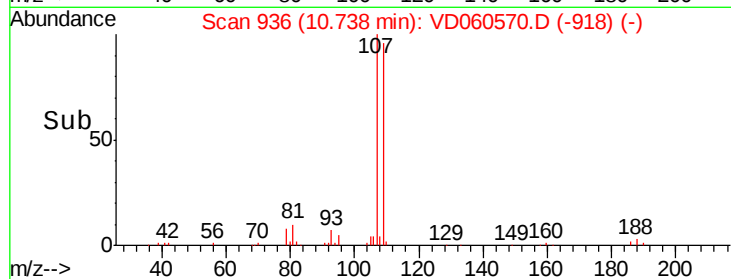
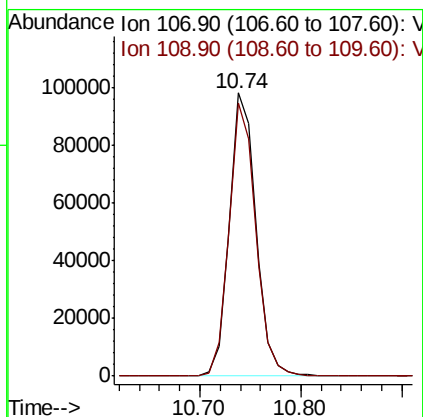
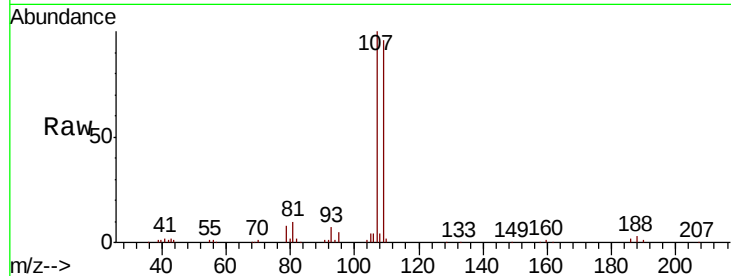




#61
 1,2-Dibromoethane
 Concen: 20.104 ug/l
 RT: 10.74 min Scan# 936
 Delta R.T. -0.02 min
 Lab File: VD060570.D
 Acq: 14 Dec 2018 13:44

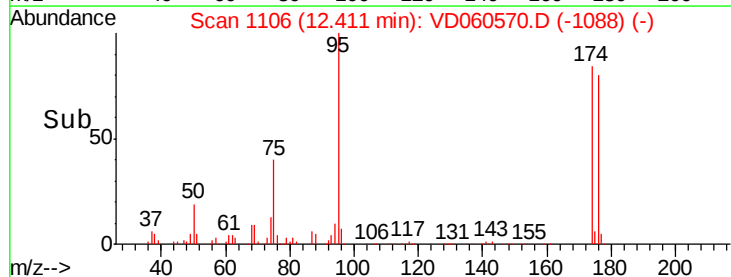
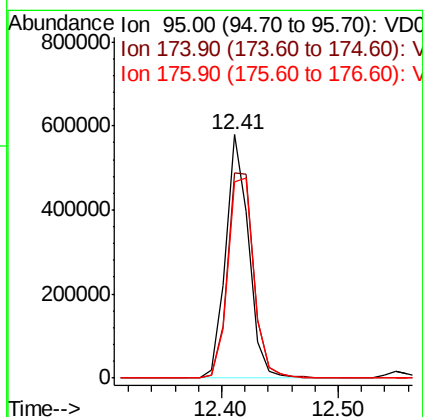
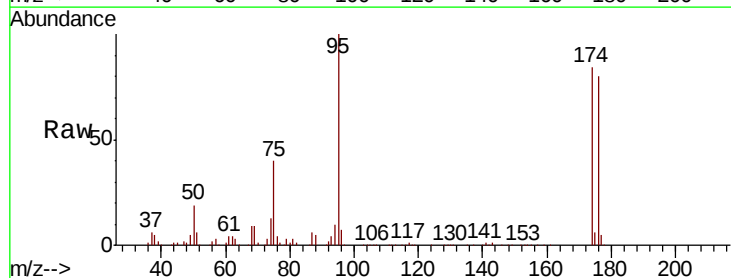
Instrument :
 MSVOA_D
 ClientSampled :

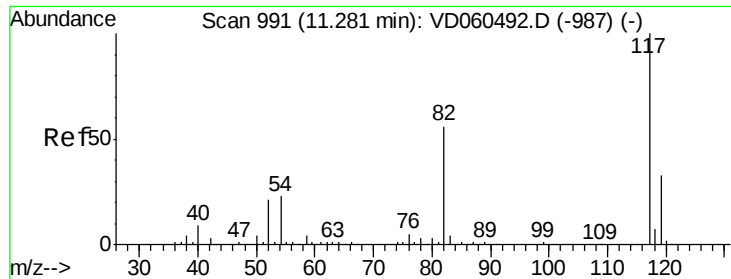
Tot Ion:107 Resp: 179005
 Ion Ratio Lower Upper
 107 100
 109 96.3 74.7 112.1



#62
 4-Bromofluorobenzene
 Concen: 20.104 ug/l
 RT: 12.41 min Scan# 1106
 Delta R.T. -0.02 min
 Lab File: VD060570.D
 Acq: 14 Dec 2018 13:44

Tgt Ion: 95 Resp: 787822
 Ion Ratio Lower Upper
 95 100
 174 84.3 0.0 219.4
 176 80.5 0.0 214.6

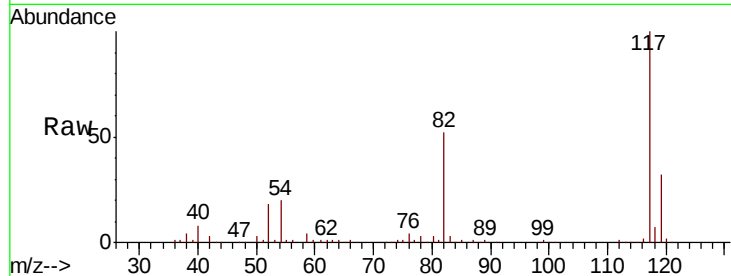




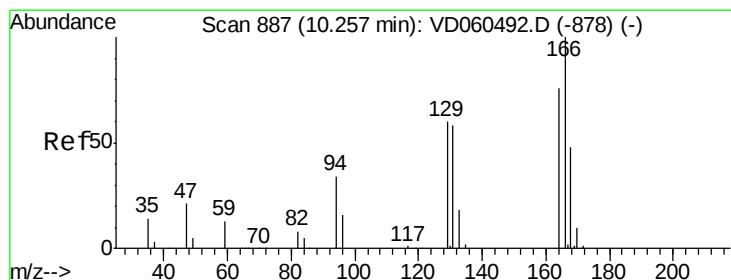
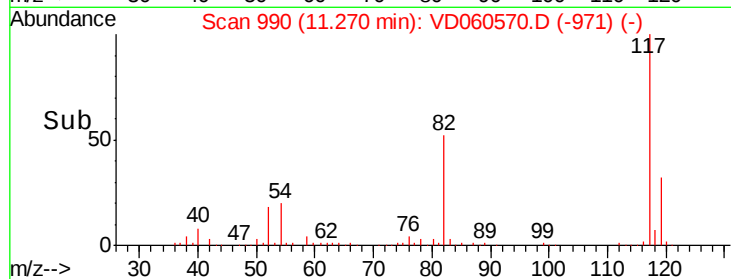
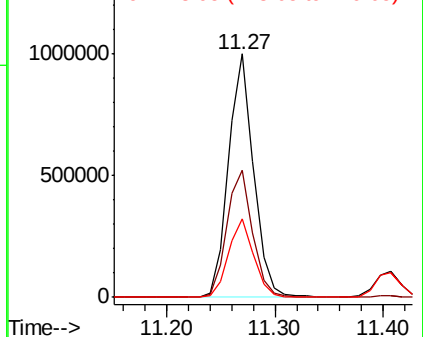
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.27 min Scan# 990
Delta R.T. -0.01 min
Lab File: VD060570.D
Acq: 14 Dec 2018 13:44

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 1609961
Ion Ratio Lower Upper
117 100
82 52.4 45.2 67.8
119 32.3 26.1 39.1

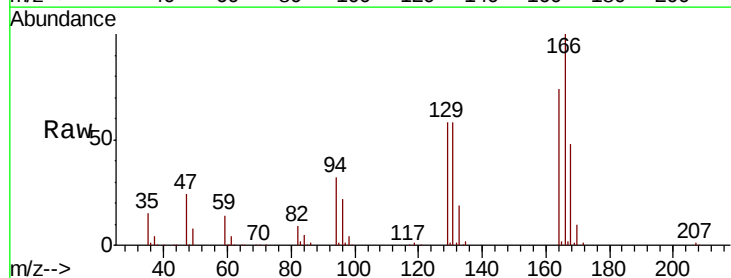


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

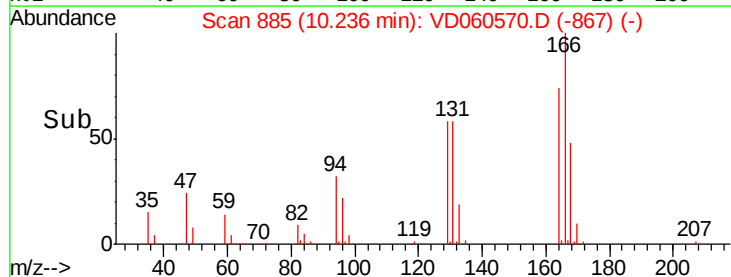
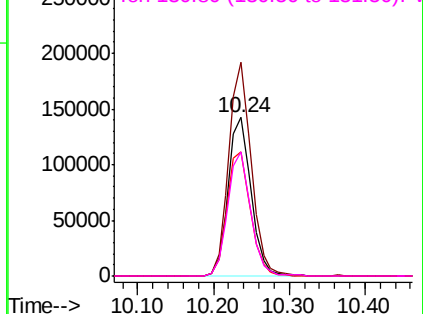


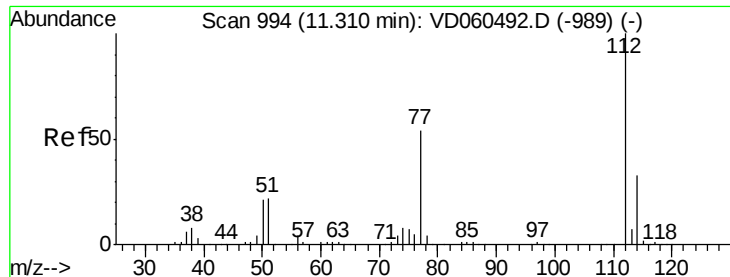
#64
Tetrachloroethene
Concen: 20.841 ug/l
RT: 10.24 min Scan# 885
Delta R.T. -0.02 min
Lab File: VD060570.D
Acq: 14 Dec 2018 13:44

Tgt Ion:164 Resp: 297103
Ion Ratio Lower Upper
164 100
166 134.9 105.0 157.6
129 78.5 63.0 94.4
131 78.5 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: 20.940 ug/l

RT: 11.30 min Scan# 993

Delta R.T. -0.01 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

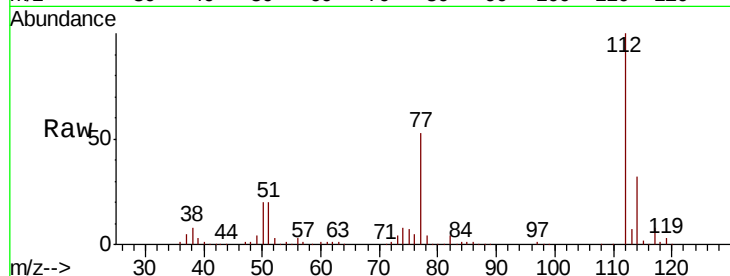
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:112 Resp: 713214

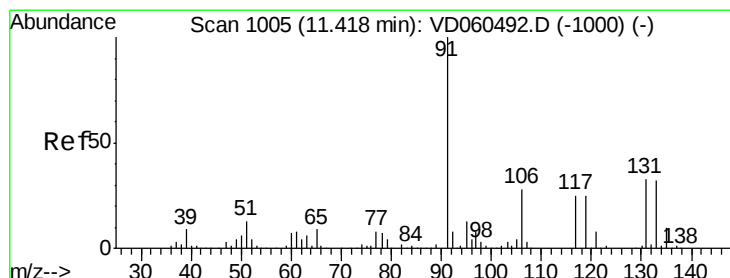
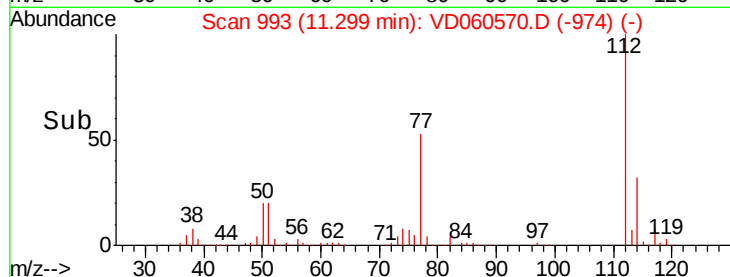
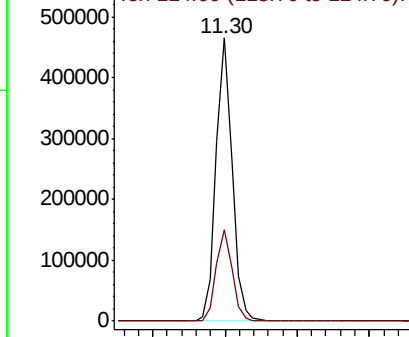
Ion Ratio Lower Upper

112 100

114 32.3 26.2 39.4



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 21.368 ug/l

RT: 11.41 min Scan# 1004

Delta R.T. -0.01 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

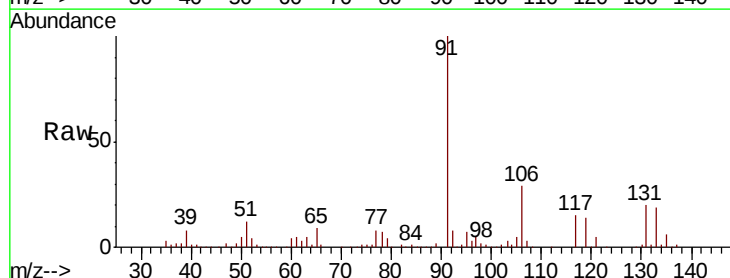
Tgt Ion:131 Resp: 234579

Ion Ratio Lower Upper

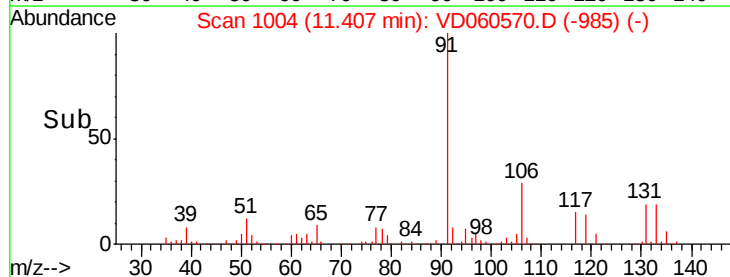
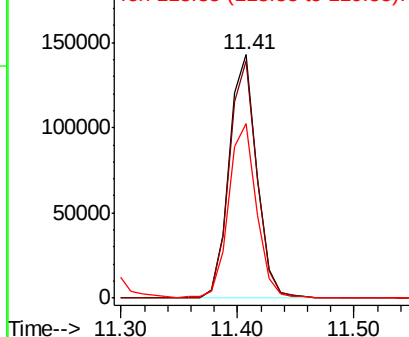
131 100

133 97.4 49.1 147.3

119 71.7 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

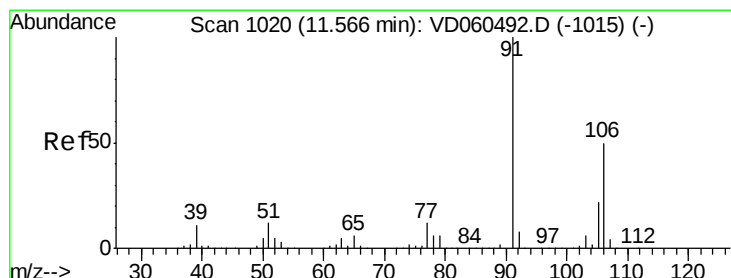
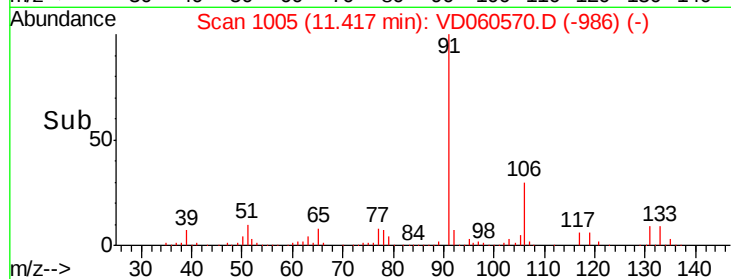
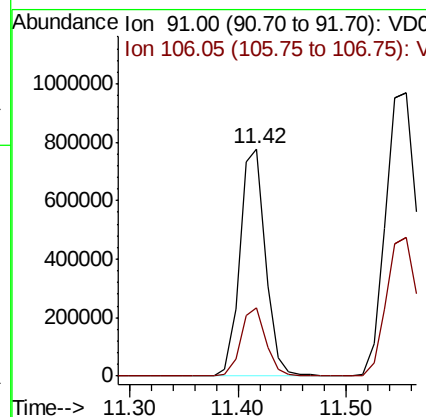
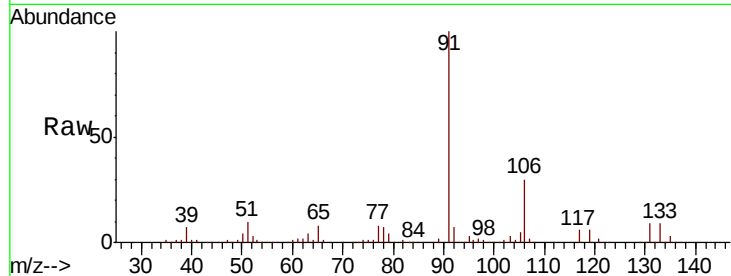




#67
Ethyl Benzene
Concen: 21.981 ug/l
RT: 11.42 min Scan# 1005
Delta R.T. -0.01 min
Lab File: VD060570.D
Acq: 14 Dec 2018 13:44

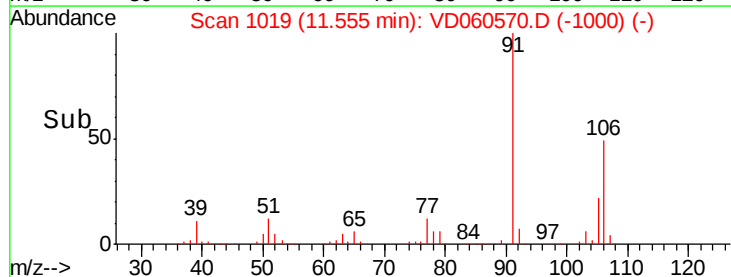
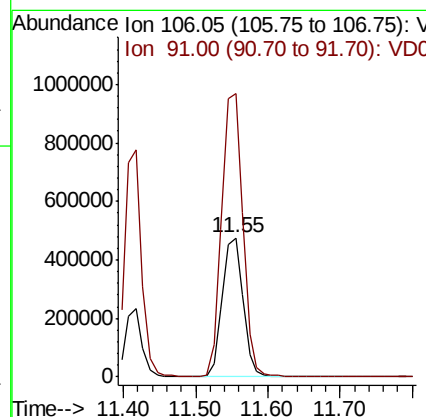
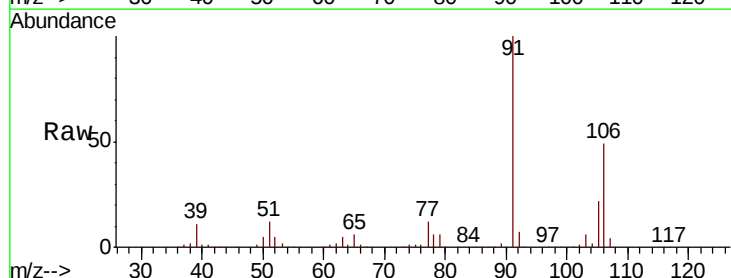
Instrument :
MSVOA_D
ClientSampleId :

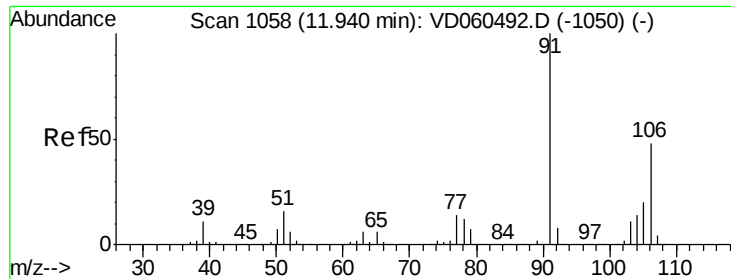
Tot Ion: 91 Resp: 1277028
Ion Ratio Lower Upper
91 100
106 30.1 24.6 37.0



#68
m/p-Xylenes
Concen: 43.706 ug/l
RT: 11.55 min Scan# 1019
Delta R.T. -0.01 min
Lab File: VD060570.D
Acq: 14 Dec 2018 13:44

Tgt Ion: 106 Resp: 939365
Ion Ratio Lower Upper
106 100
91 203.9 160.5 240.7

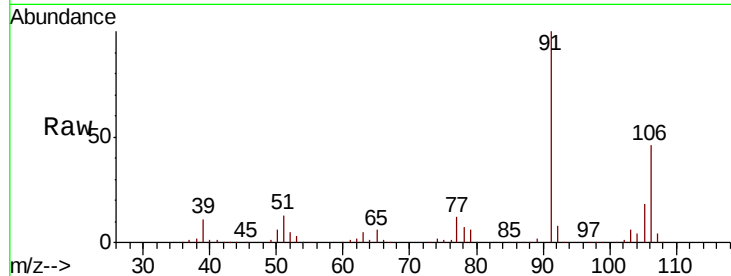




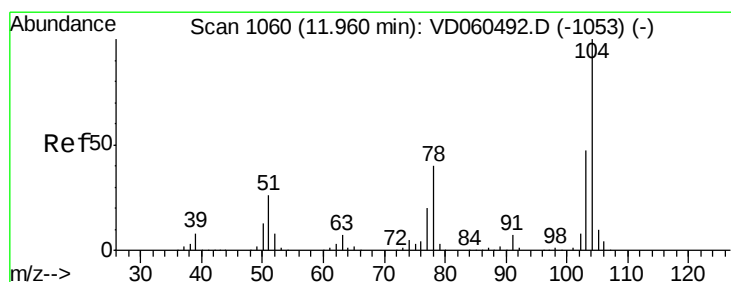
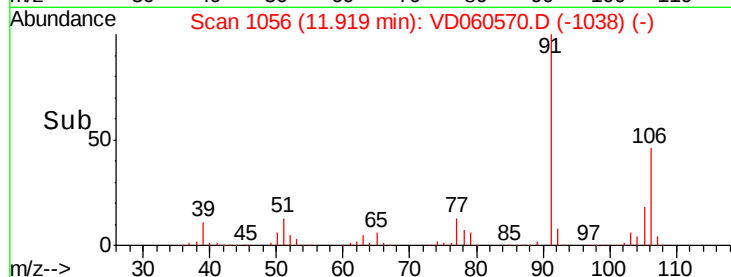
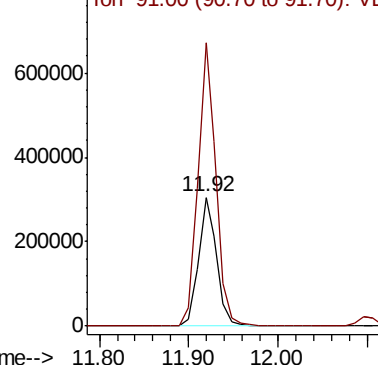
#69
o-Xylene
Concen: 21.467 ug/l
RT: 11.92 min Scan# 1056
Delta R.T. -0.02 min
Lab File: VD060570.D
Acq: 14 Dec 2018 13:44

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:106 Resp: 439712
Ion Ratio Lower Upper
106 100
91 219.6 103.4 310.1

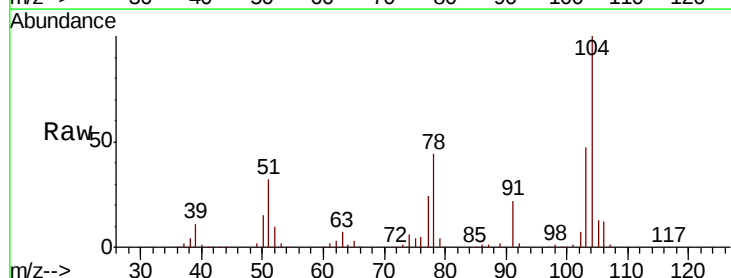


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

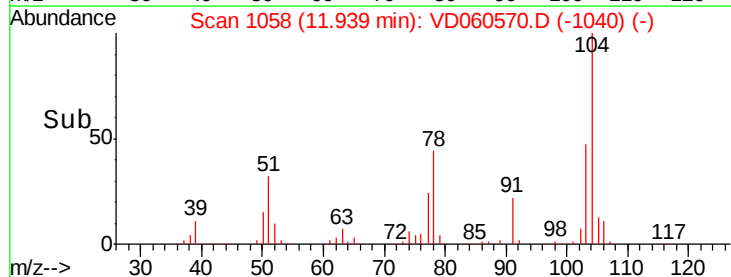
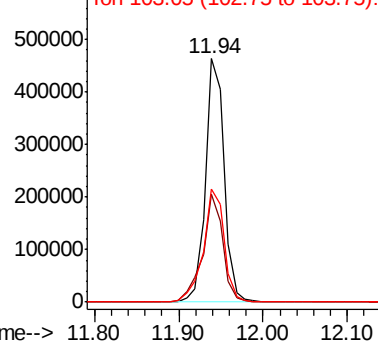


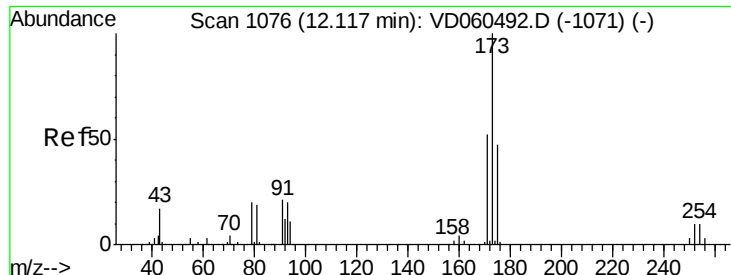
#70
Styrene
Concen: 21.582 ug/l
RT: 11.94 min Scan# 1058
Delta R.T. -0.02 min
Lab File: VD060570.D
Acq: 14 Dec 2018 13:44

Tgt Ion:104 Resp: 709552
Ion Ratio Lower Upper
104 100
78 44.4 32.1 48.1
103 46.5 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: 19.820 ug/l

RT: 12.11 min Scan# 1075

Delta R.T. -0.01 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

Instrument :

MSVOA_D

ClientSampled :

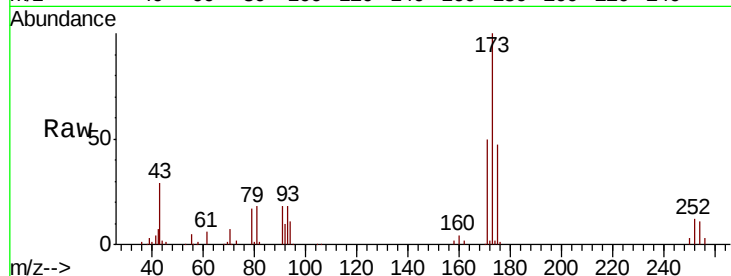
Tot Ion:173 Resp: 145161

Ion Ratio Lower Upper

173 100

175 47.0 23.5 70.6

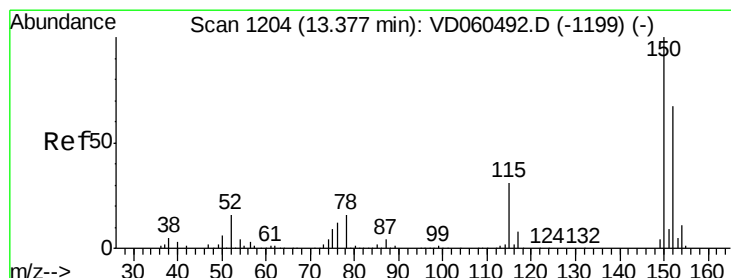
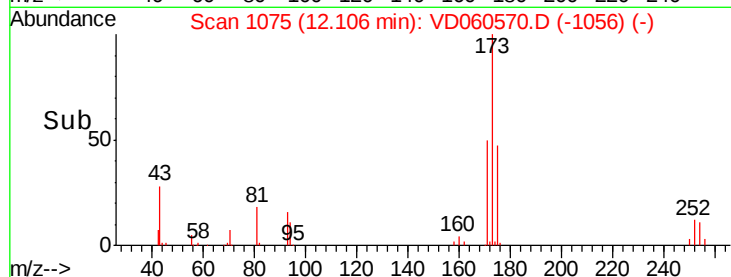
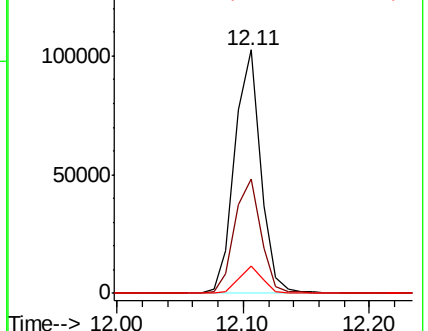
254 11.3 7.8 11.8



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: VD060570.D

Acq: 14 Dec 2018 13:44

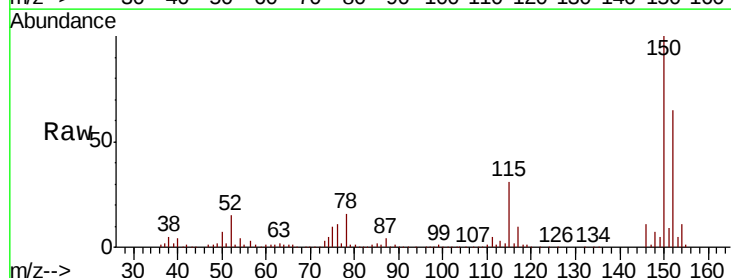
Tgt Ion:152 Resp: 826356

Ion Ratio Lower Upper

152 100

115 47.7 24.6 74.0

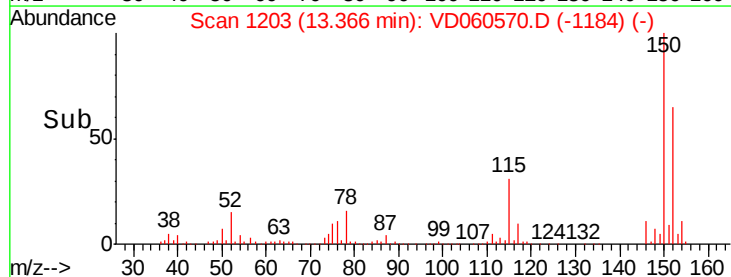
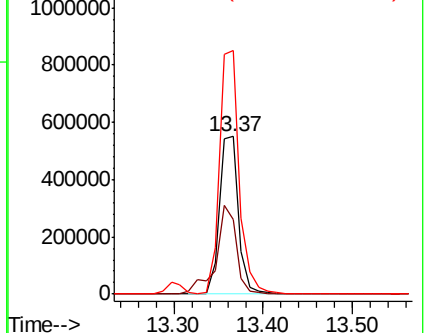
150 154.4 0.0 309.0

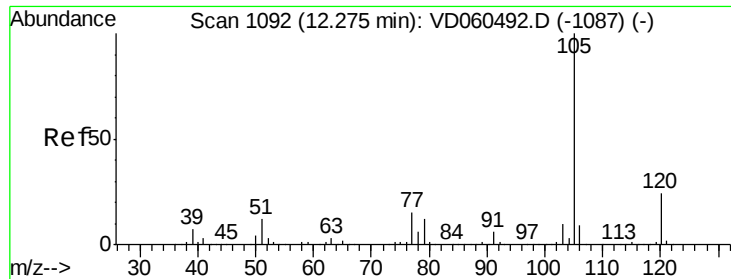


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.252 ug/l

RT: 12.26 min Scan# 1091

Delta R.T. -0.01 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

Instrument :

MSVOA_D

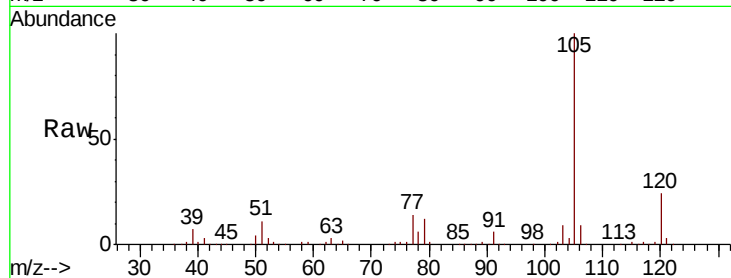
ClientSampled :

Tot Ion:105 Resp: 1242714

Ion Ratio Lower Upper

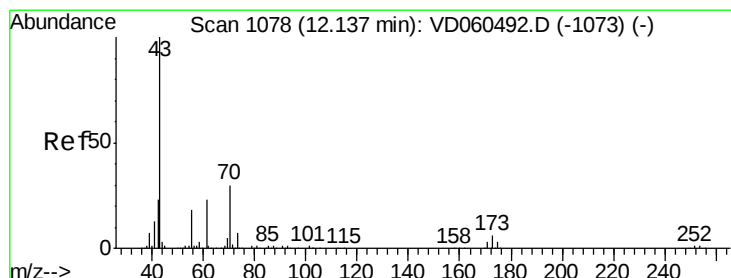
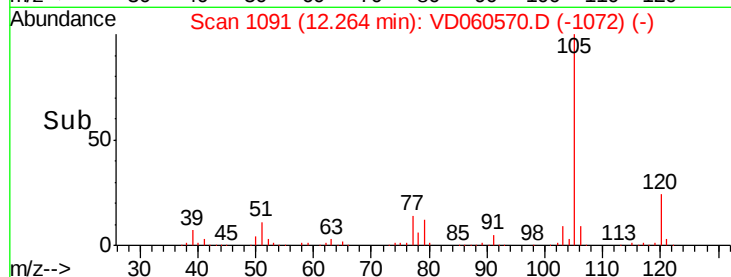
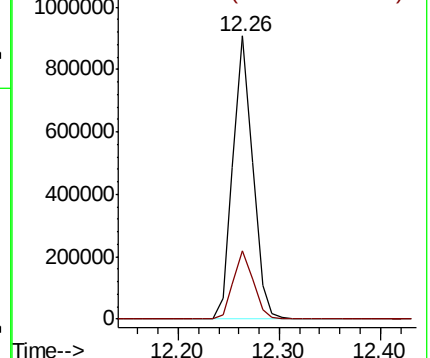
105 100

120 24.3 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: 19.271 ug/l

RT: 12.13 min Scan# 1077

Delta R.T. -0.01 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

Tgt Ion: 43 Resp: 272352

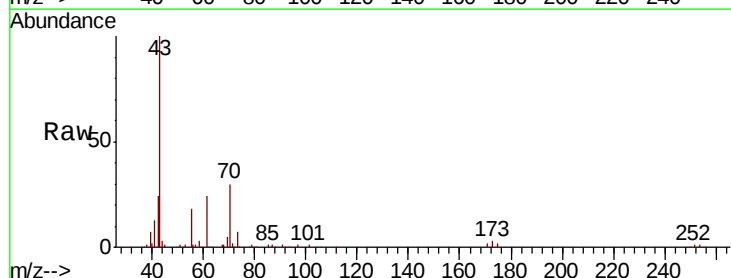
Ion Ratio Lower Upper

43 100

70 29.6 23.8 35.8

55 17.7 14.2 21.2

61 23.5 18.1 27.1

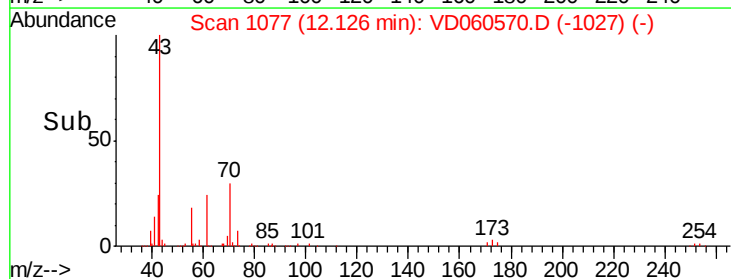
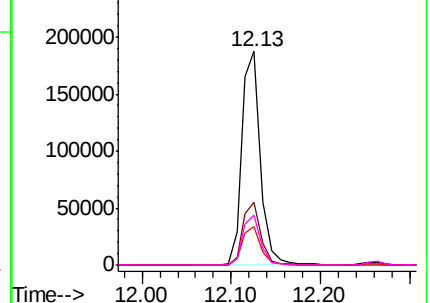


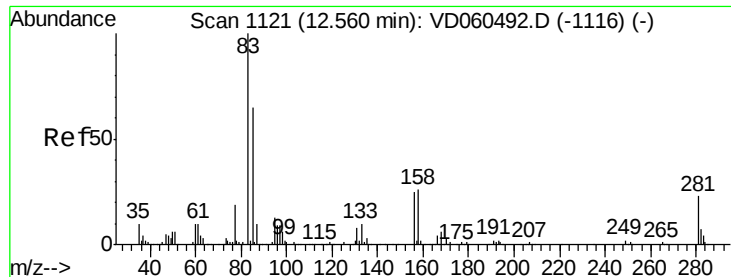
Abundance Ion 42.95 (42.65 to 43.65): VDC

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: 20.146 ug/l

RT: 12.55 min Scan# 1120

Delta R.T. -0.01 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

Instrument :

MSVOA_D

ClientSampleId :

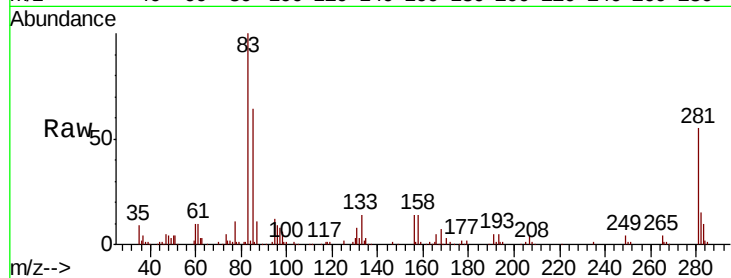
Tot Ion: 83 Resp: 188596

Ion Ratio Lower Upper

83 100

131 7.7 3.8 11.4

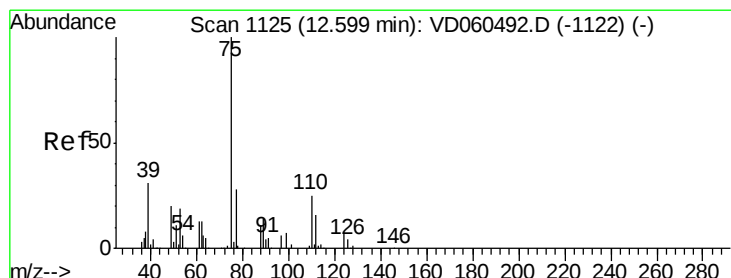
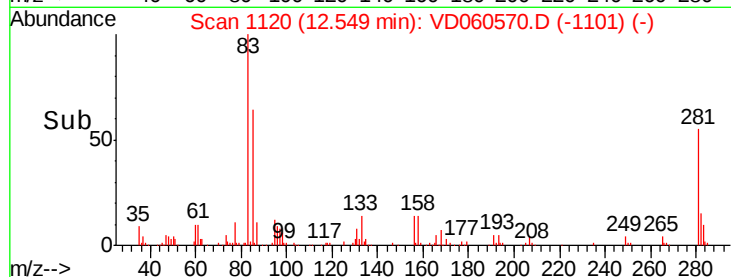
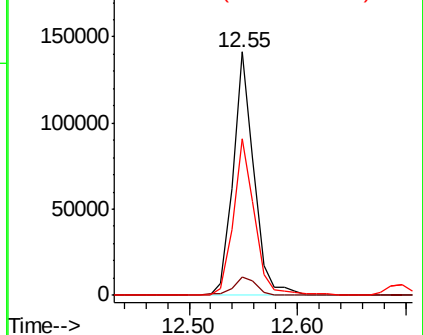
85 64.3 32.3 96.9



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: 19.816 ug/l

RT: 12.59 min Scan# 1124

Delta R.T. -0.01 min

Lab File: VD060570.D

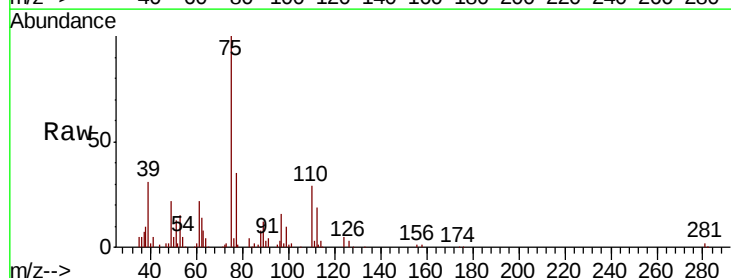
Acq: 14 Dec 2018 13:44

Tgt Ion: 75 Resp: 185535

Ion Ratio Lower Upper

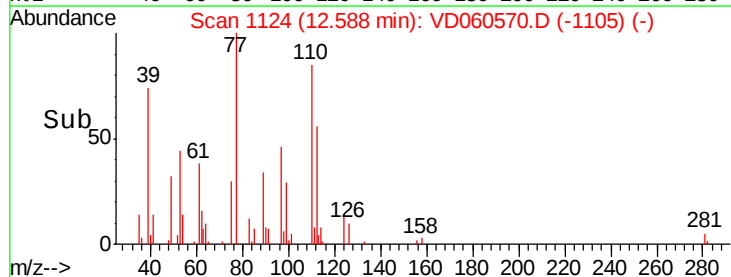
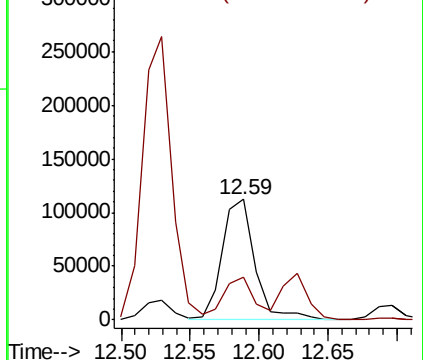
75 100

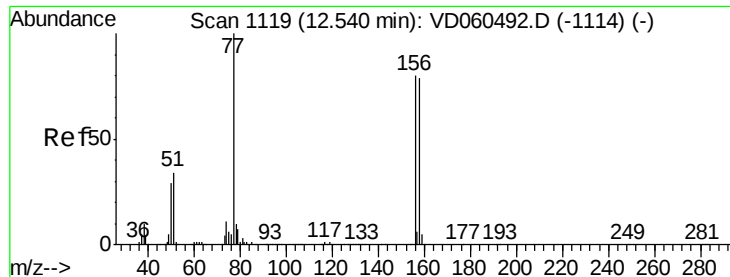
77 35.5 16.4 49.4



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 20.345 ug/l

RT: 12.53 min Scan# 1118

Delta R.T. -0.01 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

Instrument :

MSVOA_D

ClientSampleId :

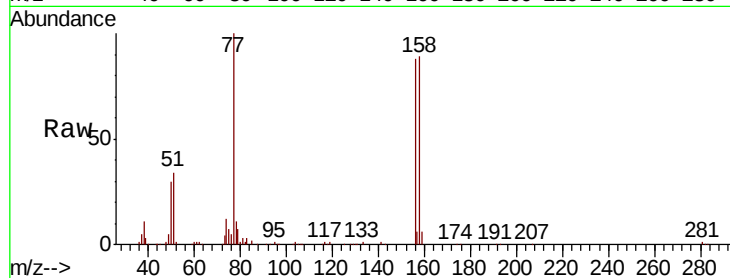
Tot Ion:156 Resp: 312714

Ion Ratio Lower Upper

156 100

77 113.1 62.5 187.6

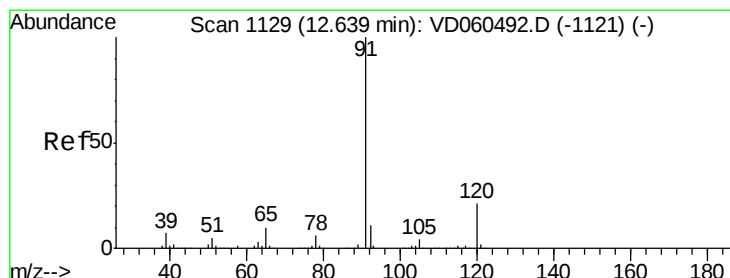
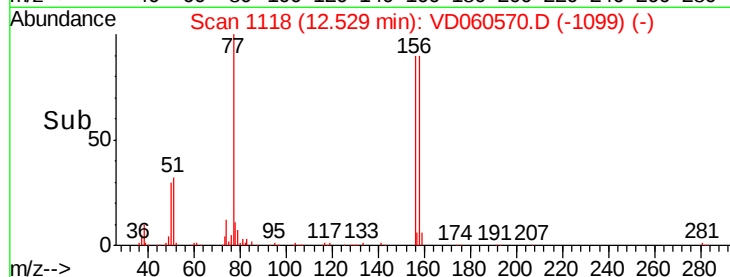
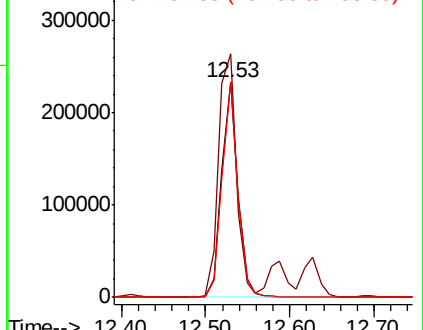
158 100.3 49.4 148.2



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: 21.553 ug/l

RT: 12.63 min Scan# 1128

Delta R.T. -0.01 min

Lab File: VD060570.D

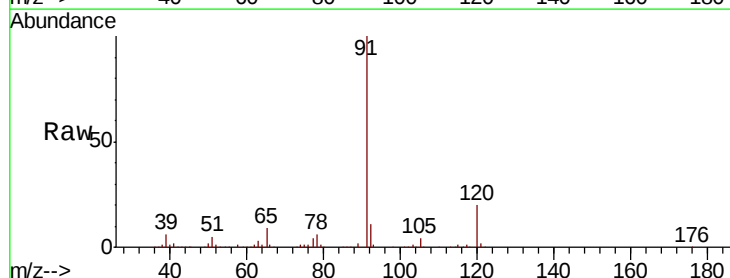
Acq: 14 Dec 2018 13:44

Tgt Ion: 91 Resp: 1593194

Ion Ratio Lower Upper

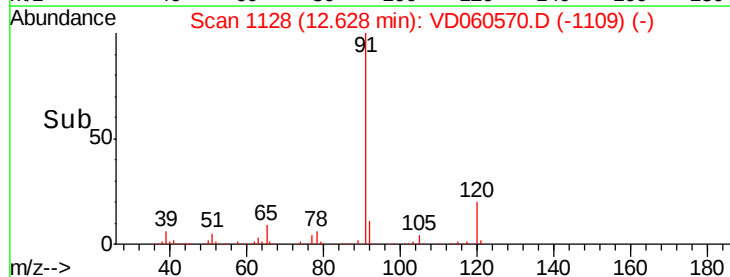
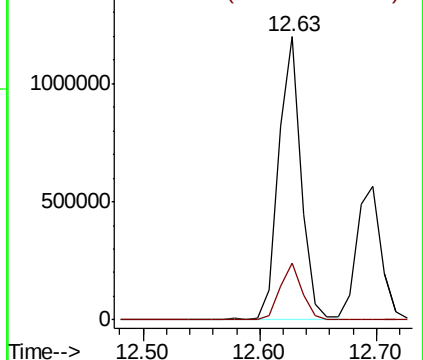
91 100

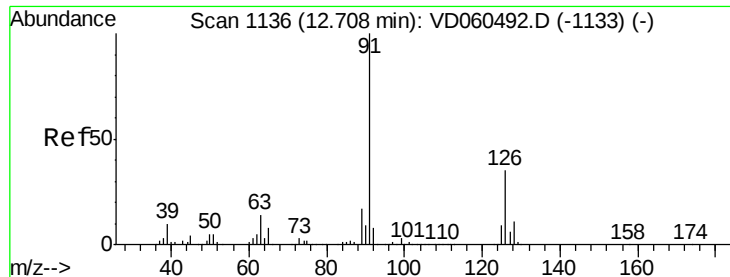
120 20.1 10.4 31.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 20.525 ug/l

RT: 12.70 min Scan# 1135

Delta R.T. -0.01 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

Instrument :

MSVOA_D

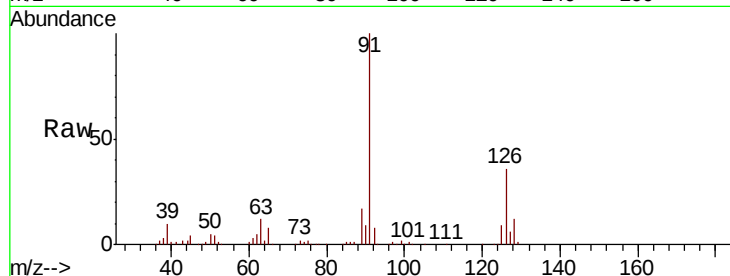
ClientSampleId :

Tot Ion: 91 Resp: 823293

Ion Ratio Lower Upper

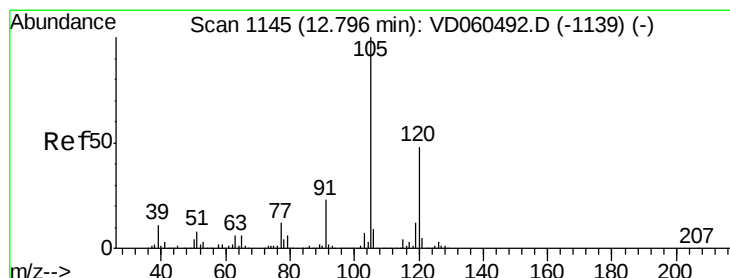
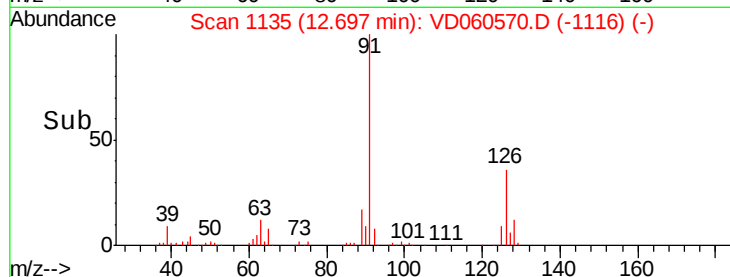
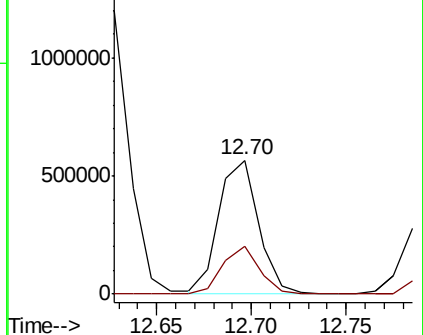
91 100

126 35.6 17.3 52.0



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 21.875 ug/l

RT: 12.79 min Scan# 1144

Delta R.T. -0.01 min

Lab File: VD060570.D

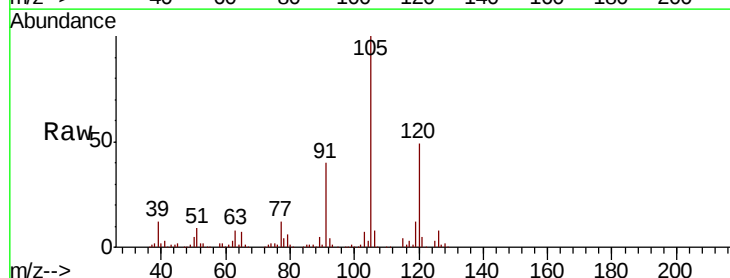
Acq: 14 Dec 2018 13:44

Tgt Ion: 105 Resp: 977435

Ion Ratio Lower Upper

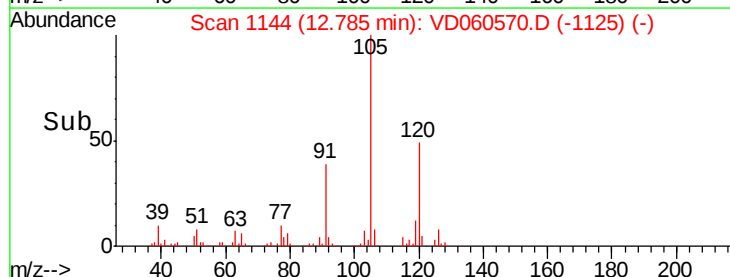
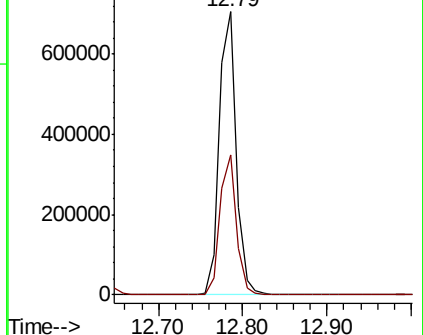
105 100

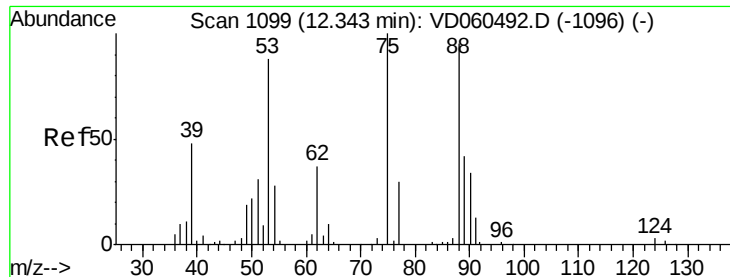
120 49.4 24.2 72.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 18.996 ug/l

RT: 12.33 min Scan# 1098

Delta R.T. -0.01 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

Instrument :

MSVOA_D

ClientSampled :

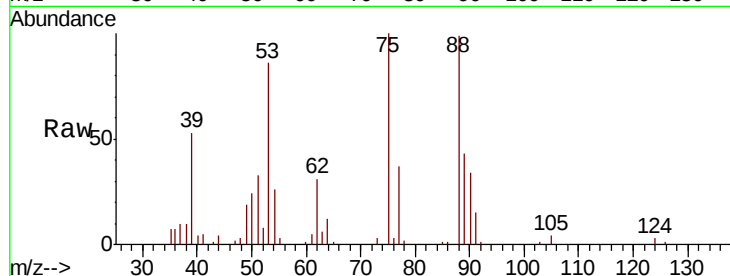
Tot Ion: 75 Resp: 49606

Ion Ratio Lower Upper

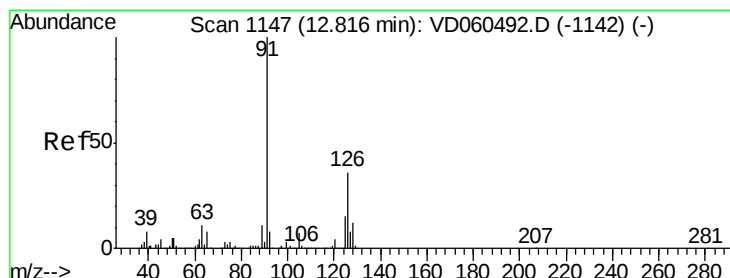
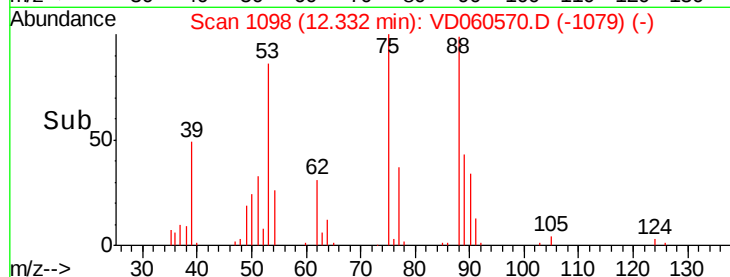
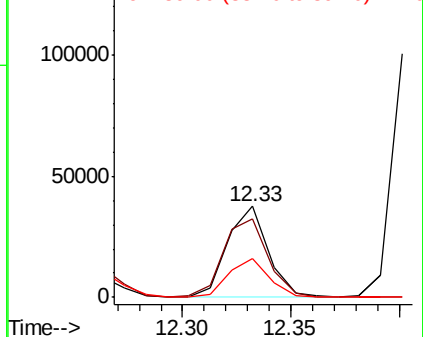
75 100

53 86.3 70.5 105.7

89 42.9 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: 21.620 ug/l

RT: 12.79 min Scan# 1145

Delta R.T. -0.02 min

Lab File: VD060570.D

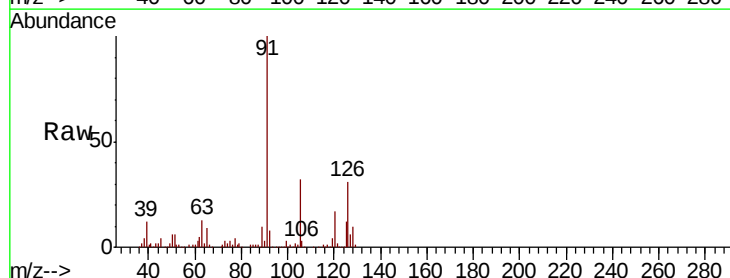
Acq: 14 Dec 2018 13:44

Tgt Ion: 91 Resp: 974005

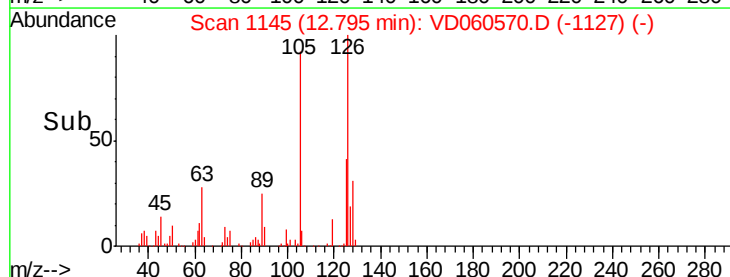
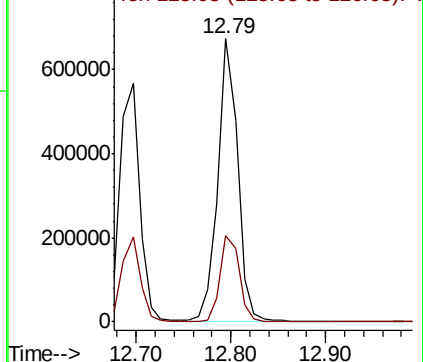
Ion Ratio Lower Upper

91 100

126 30.5 17.8 53.4



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

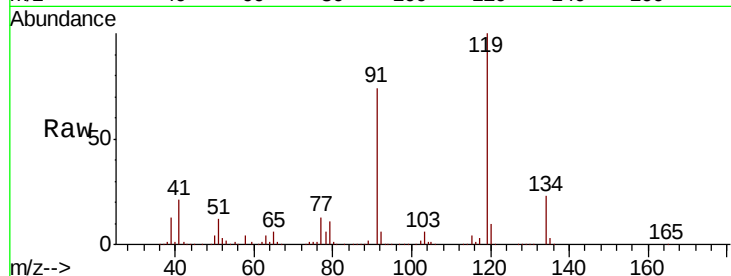




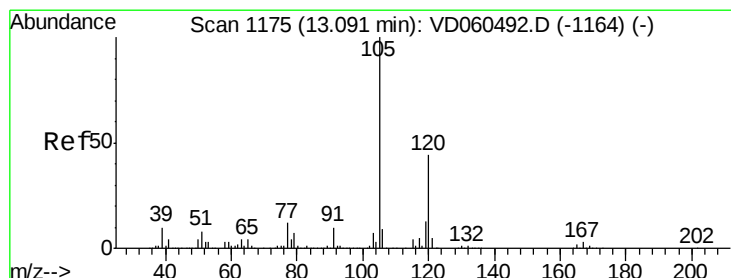
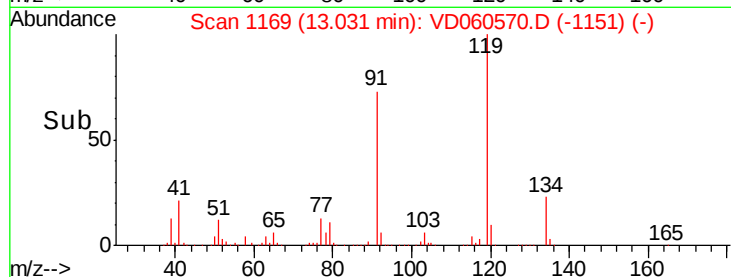
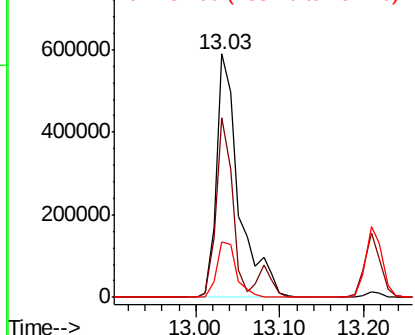
#83
tert-Butylbenzene
Concen: 21.902 ug/l
RT: 13.03 min Scan# 1169
Delta R.T. -0.02 min
Lab File: VD060570.D
Acq: 14 Dec 2018 13:44

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:119 Resp: 1097295
Ion Ratio Lower Upper
119 100
91 73.8 33.1 99.2
134 23.0 12.0 36.0

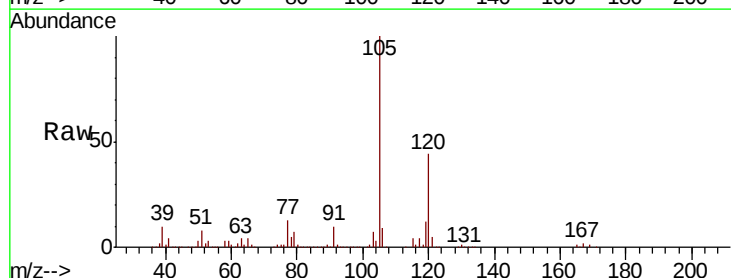


Abundance Ion 119.05 (118.75 to 119.75): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

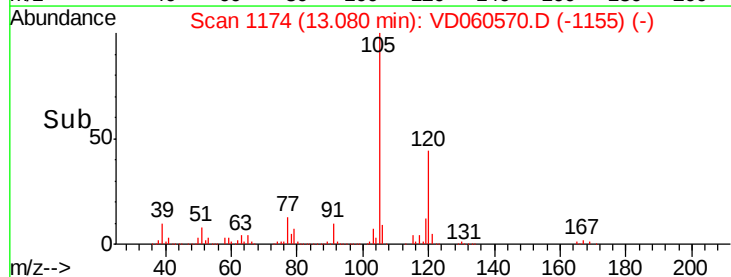
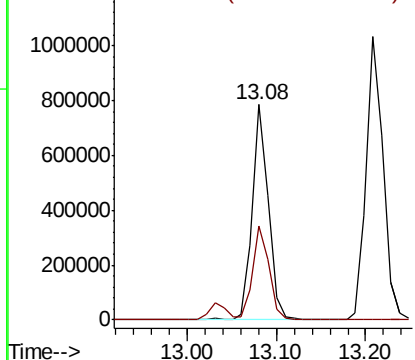


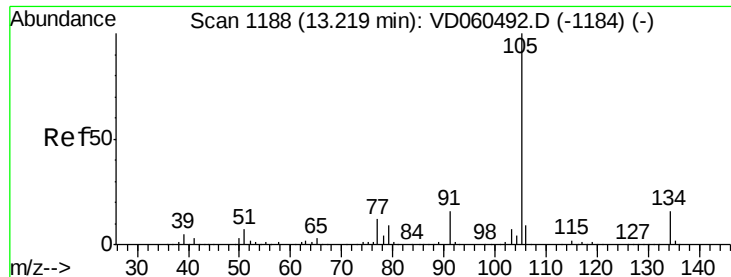
#84
1,2,4-Trimethylbenzene
Concen: 21.020 ug/l
RT: 13.08 min Scan# 1174
Delta R.T. -0.01 min
Lab File: VD060570.D
Acq: 14 Dec 2018 13:44

Tgt Ion:105 Resp: 972517
Ion Ratio Lower Upper
105 100
120 43.8 22.3 66.8



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





#85

sec-Butylbenzene

Concen: 21.554 ug/l

RT: 13.21 min Scan# 1187

Delta R.T. -0.01 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

Instrument :

MSVOA_D

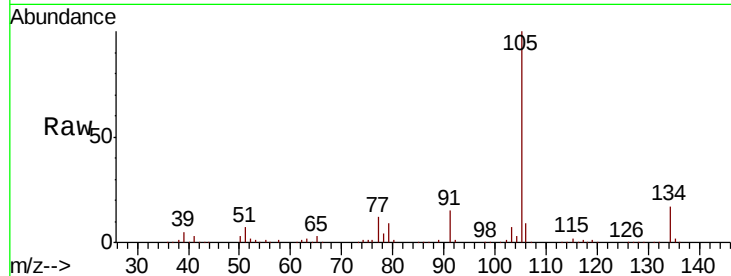
ClientSampled :

Tot Ion:105 Resp: 1345917

Ion Ratio Lower Upper

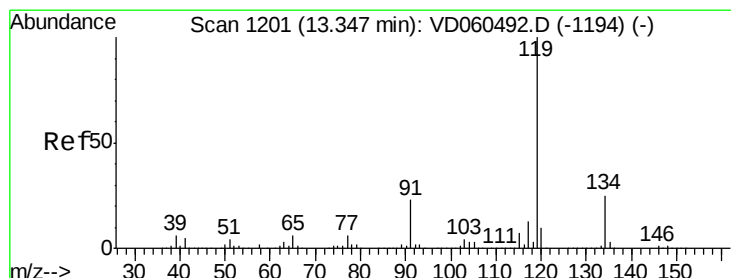
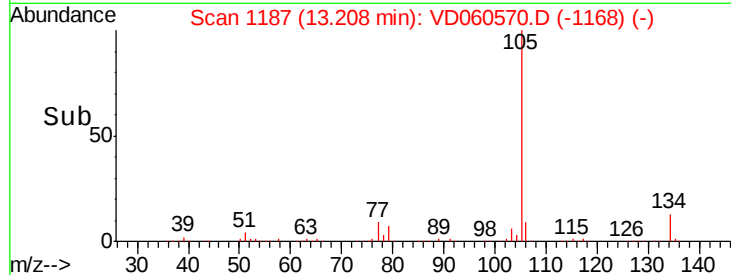
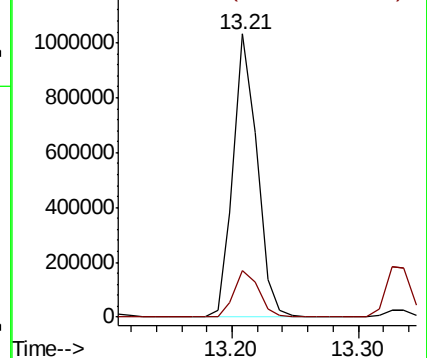
105 100

134 16.6 7.9 23.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 21.739 ug/l

RT: 13.33 min Scan# 1199

Delta R.T. -0.02 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

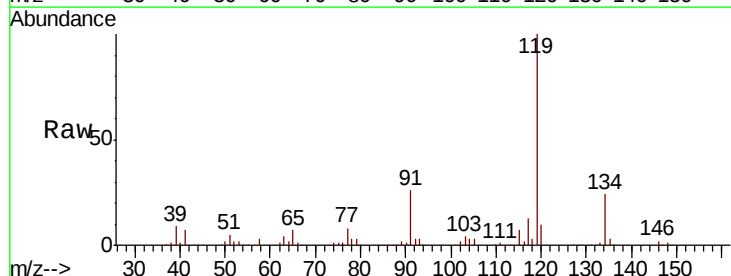
Tgt Ion:119 Resp: 1076056

Ion Ratio Lower Upper

119 100

134 23.9 12.5 37.5

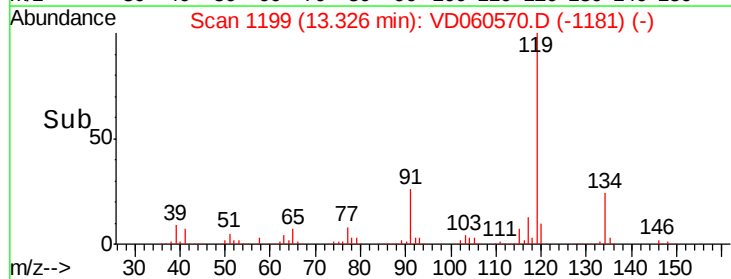
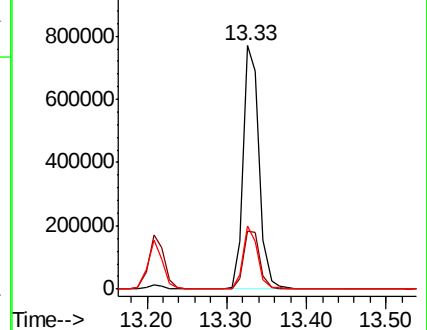
91 26.0 11.5 34.4

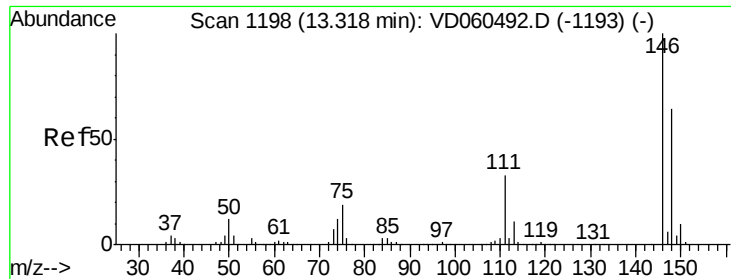


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

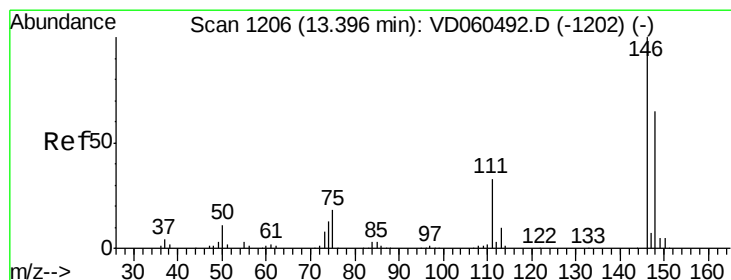
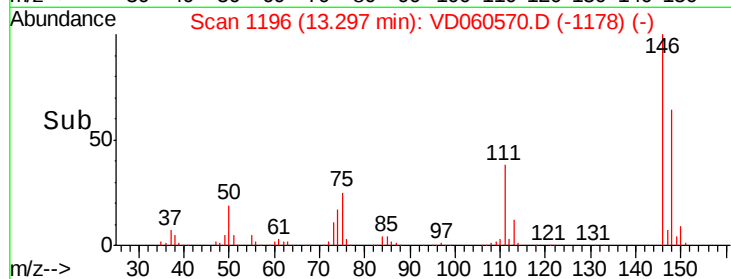
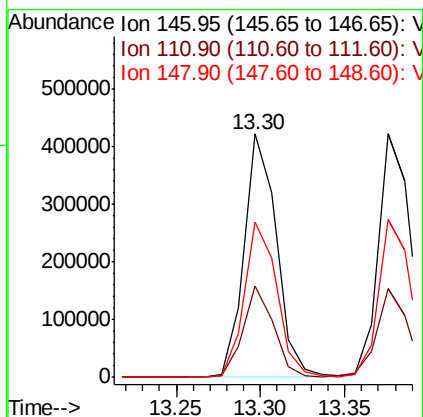
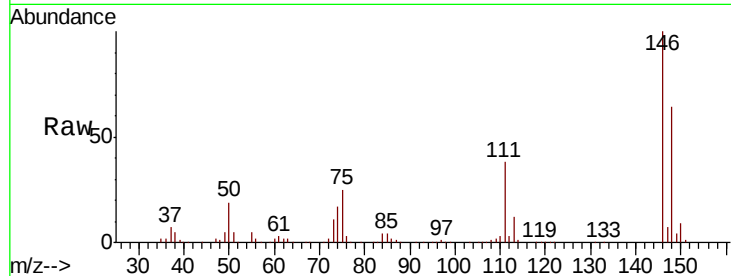




#87
 1,3-Dichlorobenzene
 Concen: 20.279 ug/l
 RT: 13.30 min Scan# 1196
 Delta R.T. -0.02 min
 Lab File: VD060570.D
 Acq: 14 Dec 2018 13:44

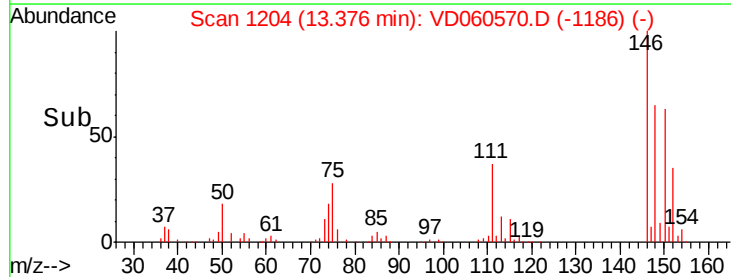
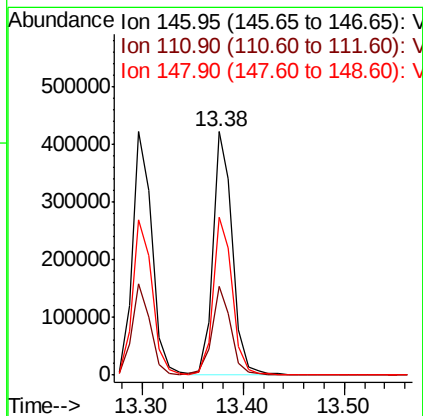
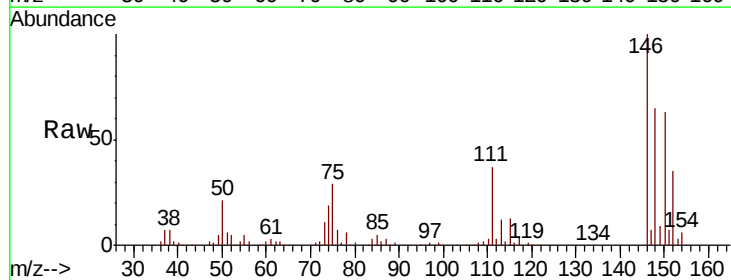
Instrument :
 MSVOA_D
 ClientSampleId :

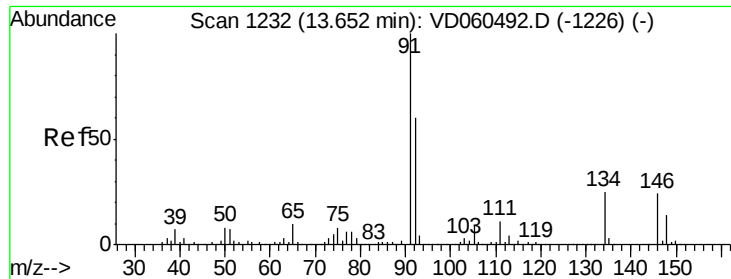
Tot Ion:146 Resp: 564368
 Ion Ratio Lower Upper
 146 100
 111 37.7 16.5 49.5
 148 64.0 32.3 96.8



#88
 1,4-Dichlorobenzene
 Concen: 20.809 ug/l
 RT: 13.38 min Scan# 1204
 Delta R.T. -0.02 min
 Lab File: VD060570.D
 Acq: 14 Dec 2018 13:44

Tgt Ion:146 Resp: 568114
 Ion Ratio Lower Upper
 146 100
 111 36.7 16.4 49.1
 148 64.8 32.6 98.0

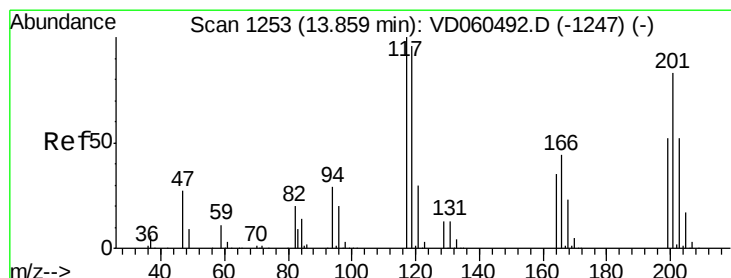
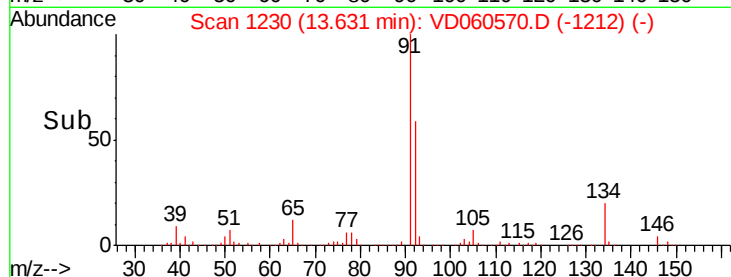
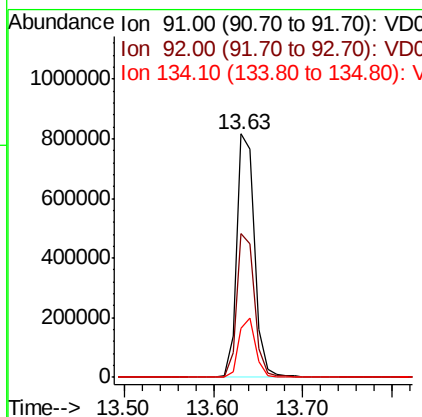
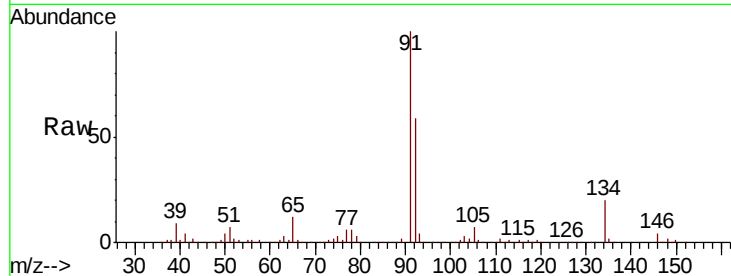




#89
n-Butylbenzene
Concen: 20.883 ug/l
RT: 13.63 min Scan# 1230
Delta R.T. -0.02 min
Lab File: VD060570.D
Acq: 14 Dec 2018 13:44

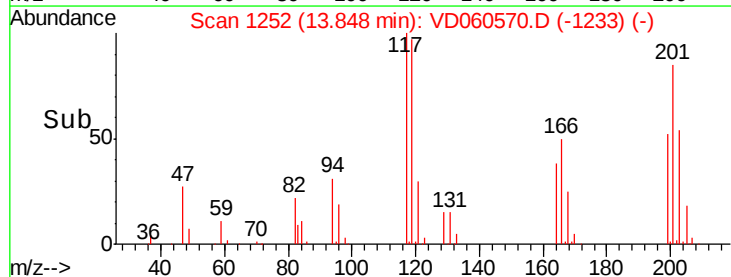
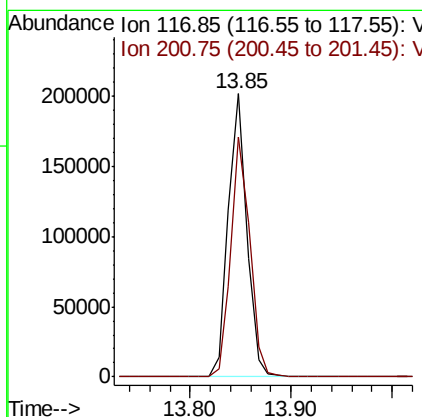
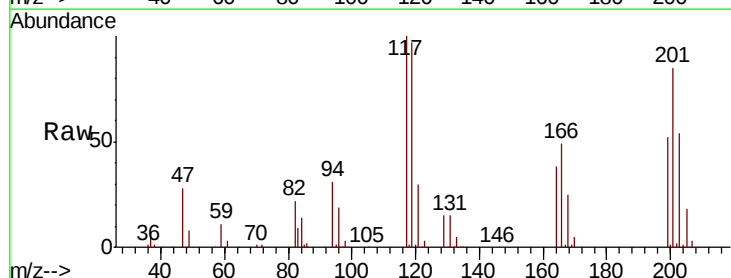
Instrument :
MSVOA_D
ClientSampleId :

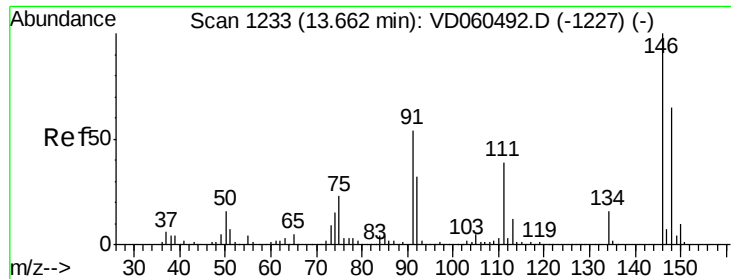
Tot Ion: 91 Resp: 1147244
Ion Ratio Lower Upper
91 100
92 59.1 30.0 90.1
134 20.2 12.5 37.5



#90
Hexachloroethane
Concen: 20.791 ug/l
RT: 13.85 min Scan# 1252
Delta R.T. -0.01 min
Lab File: VD060570.D
Acq: 14 Dec 2018 13:44

Tgt Ion: 117 Resp: 258034
Ion Ratio Lower Upper
117 100
201 84.7 41.3 123.9





#91

1,2-Dichlorobenzene

Concen: 21.162 ug/l

RT: 13.65 min Scan# 1232

Delta R.T. -0.01 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

Instrument :

MSVOA_D

ClientSampled :

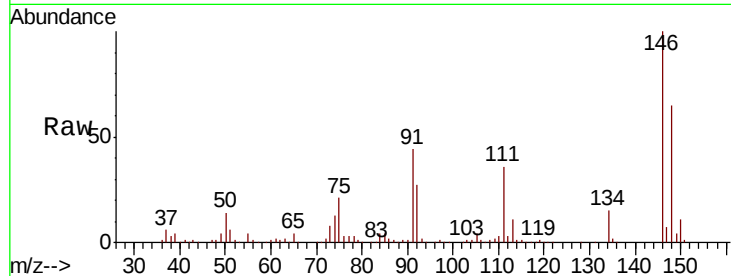
Tot Ion:146 Resp: 481291

Ion Ratio Lower Upper

146 100

111 35.6 19.3 57.8

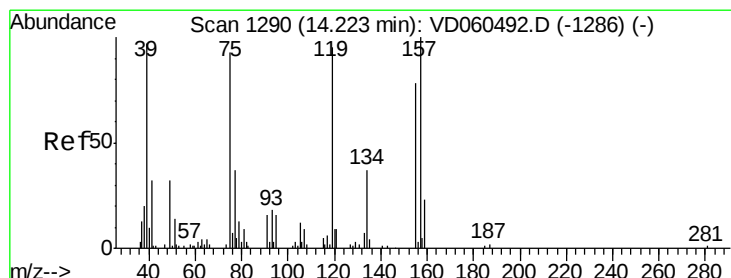
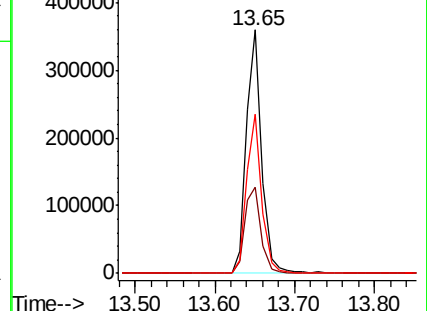
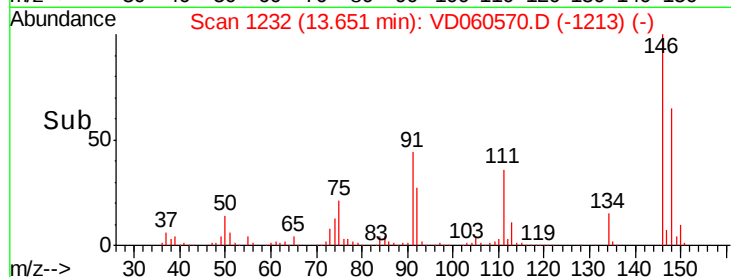
148 65.4 32.3 96.8



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: 19.127 ug/l

RT: 14.21 min Scan# 1289

Delta R.T. -0.01 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

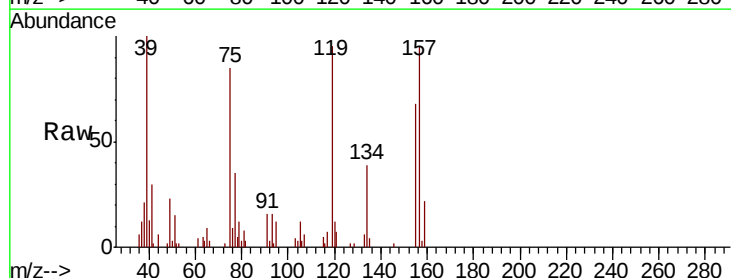
Tgt Ion: 75 Resp: 21696

Ion Ratio Lower Upper

75 100

155 80.1 41.6 124.9

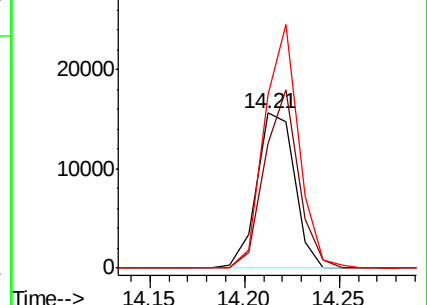
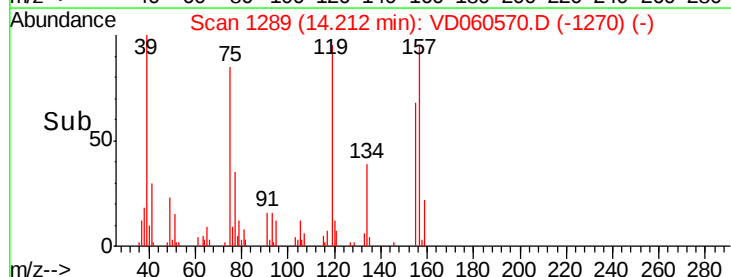
157 112.0 53.6 160.8

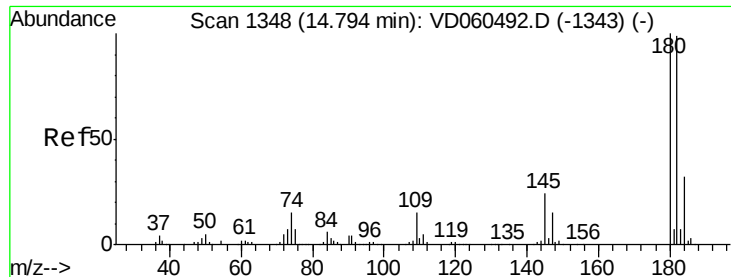


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

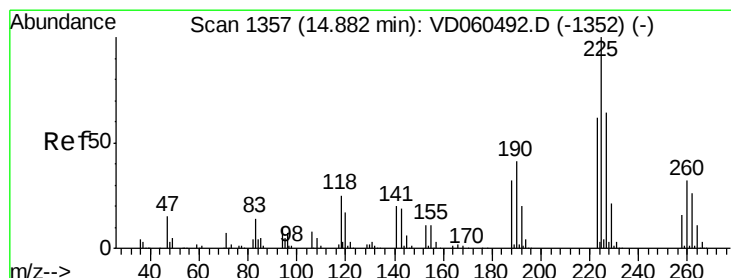
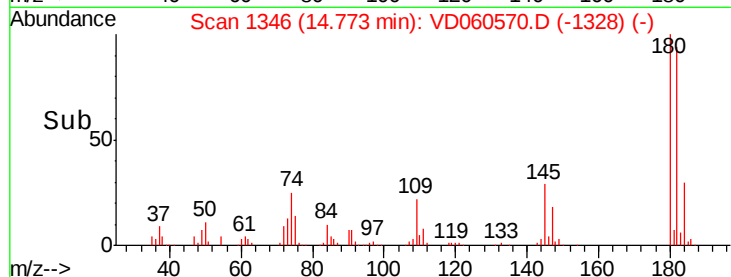
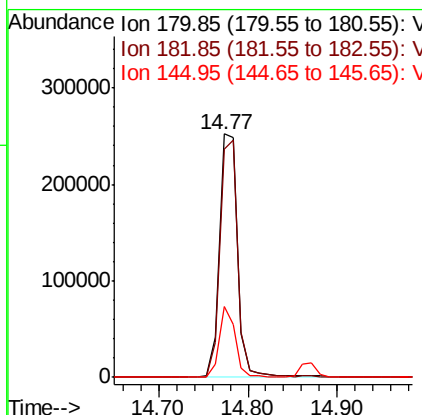
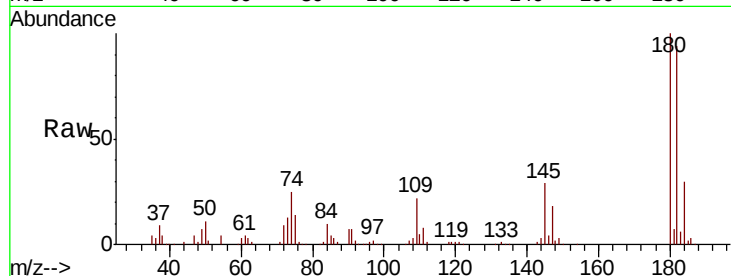




#93
 1,2,4-Trichlorobenzene
 Concen: 20.416 ug/l
 RT: 14.77 min Scan# 1346
 Delta R.T. -0.02 min
 Lab File: VD060570.D
 Acq: 14 Dec 2018 13:44

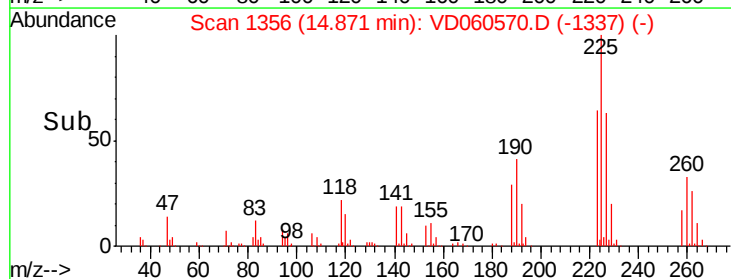
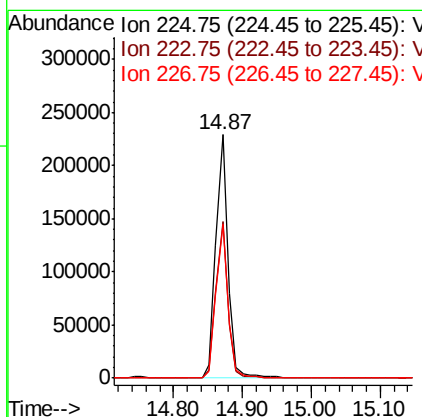
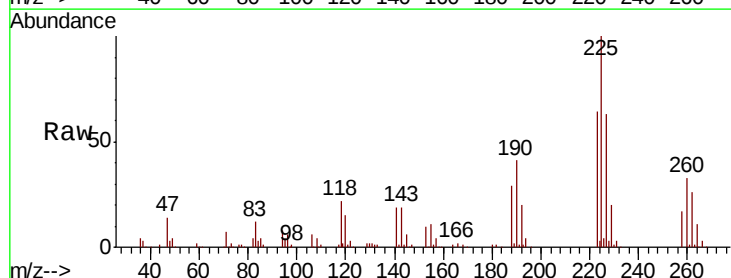
Instrument :
 MSVOA_D
 ClientSampleId :

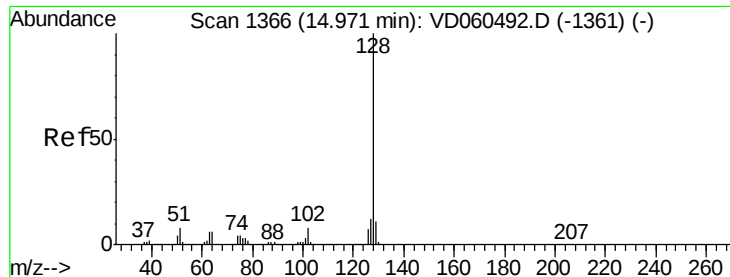
Tot Ion:180 Resp: 362988
 Ion Ratio Lower Upper
 180 100
 182 93.9 49.4 148.0
 145 29.3 11.9 35.9



#94
 Hexachlorobutadiene
 Concen: 21.401 ug/l
 RT: 14.87 min Scan# 1356
 Delta R.T. -0.01 min
 Lab File: VD060570.D
 Acq: 14 Dec 2018 13:44

Tgt Ion:225 Resp: 280735
 Ion Ratio Lower Upper
 225 100
 223 64.1 31.2 93.6
 227 63.4 32.0 96.0





#95

Naphthalene

Concen: 19.769 ug/l

RT: 14.96 min Scan# 1365

Delta R.T. -0.01 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

Instrument :

MSVOA_D

ClientSampleId :

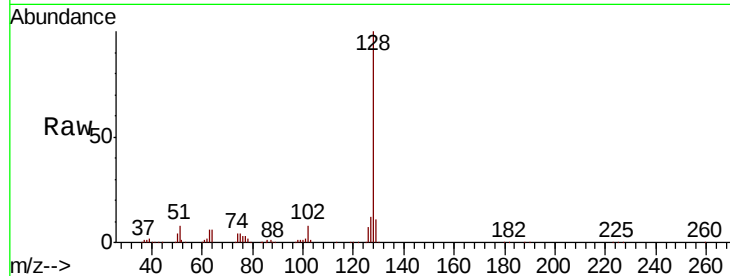
Tot Ion:128 Resp: 418134

Ion Ratio Lower Upper

128 100

127 12.3 9.8 14.8

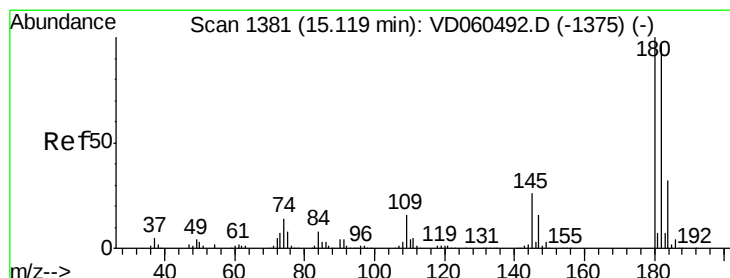
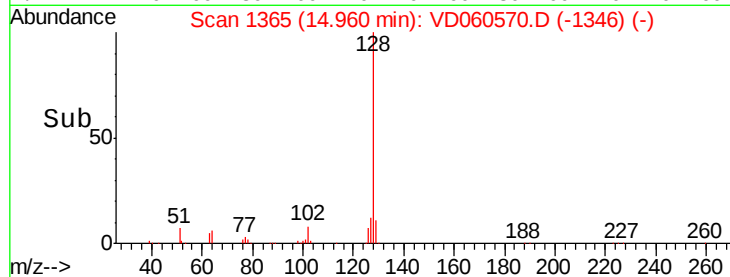
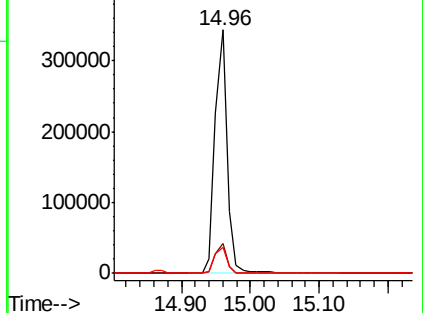
129 10.5 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 19.957 ug/l

RT: 15.11 min Scan# 1380

Delta R.T. -0.01 min

Lab File: VD060570.D

Acq: 14 Dec 2018 13:44

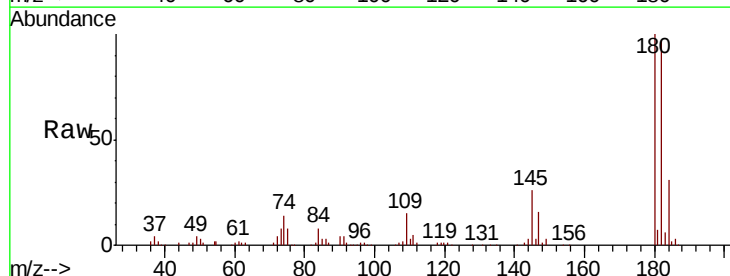
Tgt Ion:180 Resp: 282725

Ion Ratio Lower Upper

180 100

182 97.3 48.5 145.5

145 25.9 12.9 38.7



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

