

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD112018\
 Data File : VD060422.D
 Acq On : 20 Nov 2018 12:00
 Operator : JC/SY
 Sample : VD1120SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1120SBS01

Quant Time: Nov 20 14:52:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110618S.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 19 16:31:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.42	168	1357371	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.46	114	1892136	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.29	117	1481379	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.38	152	739420	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.80	65	480123	49.40	ug/l	0.00
Spiked Amount			Recovery	=	98.80%	
35) Dibromofluoromethane	6.33	113	687630	48.74	ug/l	0.00
Spiked Amount			Recovery	=	97.48%	
50) Toluene-d8	9.46	98	1982728	48.01	ug/l	0.00
Spiked Amount			Recovery	=	96.02%	
62) 4-Bromofluorobenzene	12.42	95	702950	46.98	ug/l	-0.01
Spiked Amount			Recovery	=	93.96%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.60	85	273580	23.244	ug/l	97
3) Chloromethane	1.78	50	266335	20.714	ug/l	99
4) Vinyl Chloride	1.87	62	227286	21.646	ug/l	97
5) Bromomethane	2.16	94	41802	16.780	ug/l	99
6) Chloroethane	2.27	64	63067	18.102	ug/l	96
7) Trichlorofluoromethane	2.53	101	259388	20.953	ug/l	100
8) Diethyl Ether	2.84	74	44380	19.801	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.11	101	174064	21.378	ug/l	97
10) Methyl Iodide	3.26	142	190184	17.984	ug/l	97
11) Tert butyl alcohol	3.98	59	43360	108.645	ug/l #	87
12) 1,1-Dichloroethene	3.09	96	138708	20.943	ug/l	95
13) Acrolein	3.01	56	36226	76.819	ug/l	93
14) Allyl chloride	3.55	41	265920	20.984	ug/l	96
15) Acrylonitrile	4.10	53	257562	110.669	ug/l	98
16) Acetone	3.17	43	185380	109.961	ug/l	97
17) Carbon Disulfide	3.33	76	411705	19.258	ug/l	98
18) Methyl Acetate	3.58	43	75722	21.065	ug/l	100
19) Methyl tert-butyl Ether	4.14	73	439319	22.152	ug/l	96
20) Methylene Chloride	3.74	84	351181	23.483	ug/l	95
21) trans-1,2-Dichloroethene	4.12	96	322427	21.925	ug/l	97
22) Diisopropyl ether	4.87	45	1062409	22.440	ug/l	95
23) Vinyl Acetate	4.82	43	2649801	112.479	ug/l	99
24) 1,1-Dichloroethane	4.77	63	539651	22.227	ug/l	99
25) 2-Butanone	5.63	43	381851	108.970	ug/l	99
26) 2,2-Dichloropropane	5.61	77	430002	22.781	ug/l	100
27) cis-1,2-Dichloroethene	5.61	96	336155	21.942	ug/l	94
28) Bromochloromethane	5.94	49	229676	21.440	ug/l	95
29) Tetrahydrofuran	5.97	42	194410	105.229	ug/l	99
30) Chloroform	6.12	83	548422	22.595	ug/l	95
31) Cyclohexane	6.38	56	483905	20.853	ug/l	94
32) 1,1,1-Trichloroethane	6.30	97	455836	22.296	ug/l	99
36) 1,1-Dichloropropene	6.54	75	412124	22.046	ug/l	96
37) Ethyl Acetate	5.71	43	193537	22.499	ug/l	97
38) Carbon Tetrachloride	6.51	117	388646	22.412	ug/l	98

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 Quant Title : SW846 8260
 QLast Update : Mon Nov 19 16:31:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.05	83	456852	21.248	ug/l	99
40) Benzene	6.81	78	1054386	22.097	ug/l	99
41) Methacrylonitrile	5.96	41	207869	21.113	ug/l #	95
42) 1,2-Dichloroethane	6.90	62	266621	21.347	ug/l	98
43) Isopropyl Acetate	8.35	43	229931	21.280	ug/l #	95
44) Trichloroethene	7.75	130	327790	22.661	ug/l	99
45) 1,2-Dichloropropane	8.11	63	273181	22.700	ug/l	97
46) Dibromomethane	8.22	93	152946	21.700	ug/l	95
47) Bromodichloromethane	8.50	83	374089	22.523	ug/l	98
48) Methyl methacrylate	8.25	41	141530	21.564	ug/l	95
49) 1,4-Dioxane	8.24	88	25929	456.596	ug/l	93
51) 4-Methyl-2-Pentanone	9.34	43	763336	108.541	ug/l	99
52) Toluene	9.56	92	667437	21.897	ug/l	99
53) t-1,3-Dichloropropene	9.93	75	310880	22.153	ug/l	100
54) cis-1,3-Dichloropropene	9.11	75	395117	21.952	ug/l	98
55) 1,1,2-Trichloroethane	10.19	97	185679	21.017	ug/l	98
56) Ethyl methacrylate	10.03	69	173658	21.379	ug/l	99
57) 1,3-Dichloropropane	10.39	76	290024	21.544	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.93	63	569905	116.035	ug/l	99
59) 2-Hexanone	10.50	43	562661	112.253	ug/l	99
60) Dibromochloromethane	10.64	129	236529	22.025	ug/l	97
61) 1,2-Dibromoethane	10.76	107	194468	21.970	ug/l	100
64) Tetrachloroethene	10.26	164	297772	22.516	ug/l	98
65) Chlorobenzene	11.32	112	739742	23.047	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.42	131	241090	22.957	ug/l	99
67) Ethyl Benzene	11.43	91	1274119	23.205	ug/l	98
68) m/p-Xylenes	11.57	106	922191	45.531	ug/l	98
69) o-Xylene	11.94	106	450164	23.006	ug/l	92
70) Styrene	11.96	104	718201	22.711	ug/l	99
71) Bromoform	12.12	173	156750	22.212	ug/l	99
73) Isopropylbenzene	12.28	105	1242567	23.065	ug/l	99
74) N-amyl acetate	12.14	43	302770	21.921	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.56	83	192788	21.882	ug/l	100
76) 1,2,3-Trichloropropane	12.60	75	197872	22.371	ug/l	98
77) Bromobenzene	12.54	156	314040	21.946	ug/l	95
78) n-propylbenzene	12.64	91	1557660	23.165	ug/l	99
79) 2-Chlorotoluene	12.71	91	841530	22.850	ug/l	100
80) 1,3,5-Trimethylbenzene	12.80	105	967329	23.105	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.35	75	54823	21.771	ug/l	97
82) 4-Chlorotoluene	12.82	91	950727	22.981	ug/l	89
83) tert-Butylbenzene	13.05	119	1064090	22.893	ug/l	100
84) 1,2,4-Trimethylbenzene	13.09	105	982455	23.497	ug/l	99
85) sec-Butylbenzene	13.22	105	1315088	23.061	ug/l	100
86) p-Isopropyltoluene	13.35	119	1080796	23.534	ug/l	99
87) 1,3-Dichlorobenzene	13.32	146	585230	22.987	ug/l	96
88) 1,4-Dichlorobenzene	13.40	146	563635	22.668	ug/l	99
89) n-Butylbenzene	13.66	91	1091194	21.809	ug/l	99
90) Hexachloroethane	13.86	117	253391	23.269	ug/l	98
91) 1,2-Dichlorobenzene	13.66	146	486633	23.271	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.24	75	22638	21.286	ug/l	92

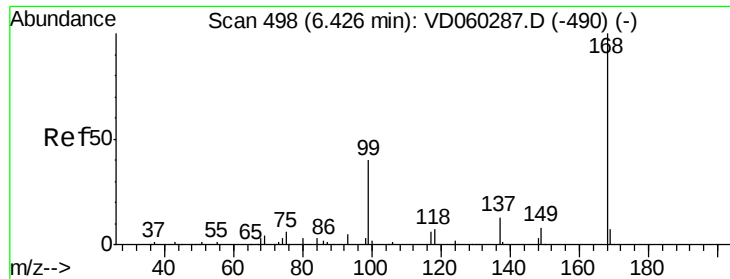
Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD112018\
Data File : VD060422.D
Acq On : 20 Nov 2018 12:00
Operator : JC/SY
Sample : VD1120SBS01
Misc : 5.00g/5ml/MSVOA D/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VD1120SBS01

Quant Time: Nov 20 14:52:47 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110618S.M
Quant Title : SW846 8260
QLast Update : Mon Nov 19 16:31:59 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.80	180	372081	22.441	ug/l	98
94) Hexachlorobutadiene	14.89	225	275679	22.230	ug/l	96
95) Naphthalene	14.97	128	423670	20.927	ug/l	100
96) 1,2,3-Trichlorobenzene	15.12	180	295382	22.232	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.42 min Scan# 498

Delta R.T. -0.00 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

Instrument :

MSVOA_D

ClientSampleId :

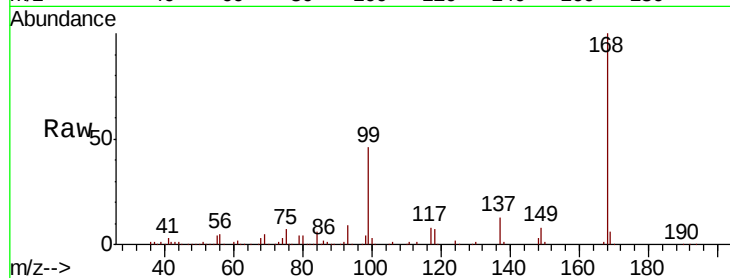
VD1120SBS01

Tot Ion:168 Resp: 1357371

Ion Ratio Lower Upper

168 100

99 45.7 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.42

500000

400000

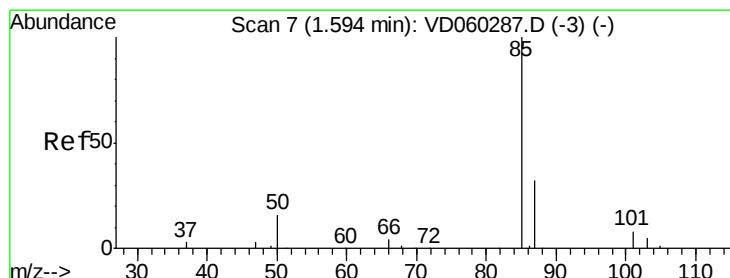
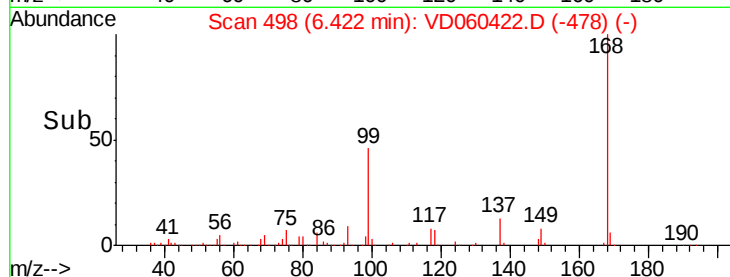
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 23.244 ug/l

RT: 1.60 min Scan# 8

Delta R.T. 0.01 min

Lab File: VD060422.D

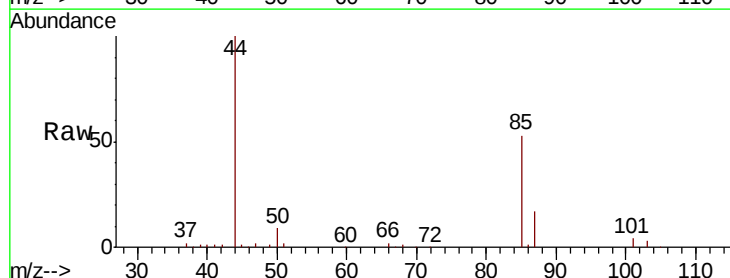
Acq: 20 Nov 2018 12:00

Tgt Ion: 85 Resp: 273580

Ion Ratio Lower Upper

85 100

87 31.7 16.8 50.4



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

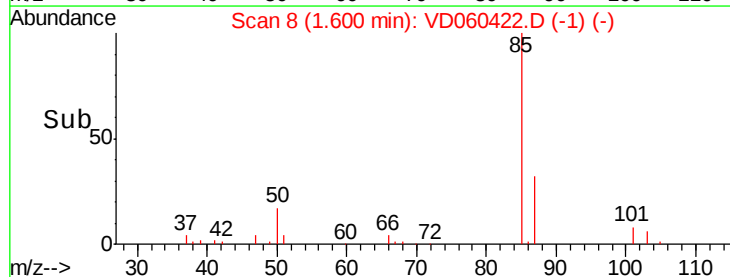
1.60

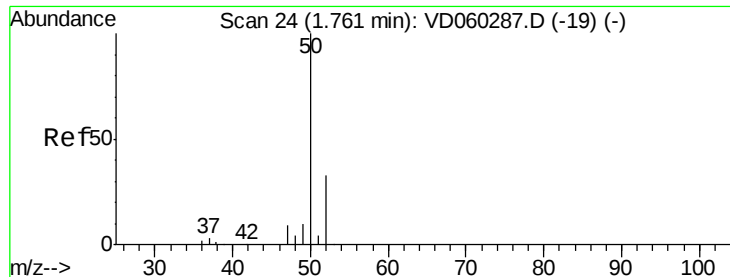
100000

50000

0

Time-->





#3

Chloromethane

Concen: 20.714 ug/l

RT: 1.78 min Scan# 26

Delta R.T. 0.02 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

Instrument :

MSVOA_D

ClientSampleId :

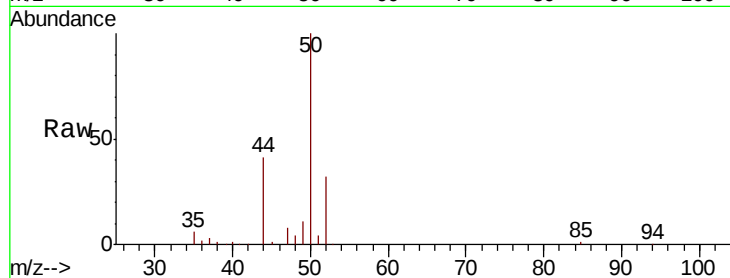
VD1120SBS01

Tot Ion: 50 Resp: 266335

Ion Ratio Lower Upper

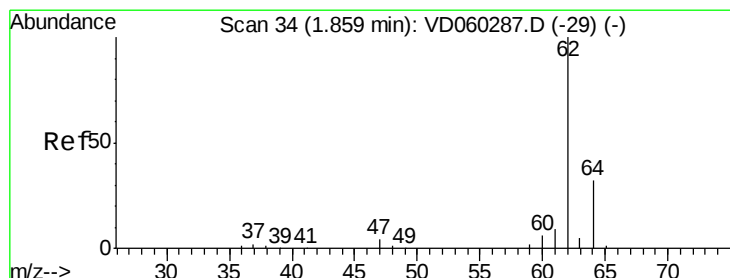
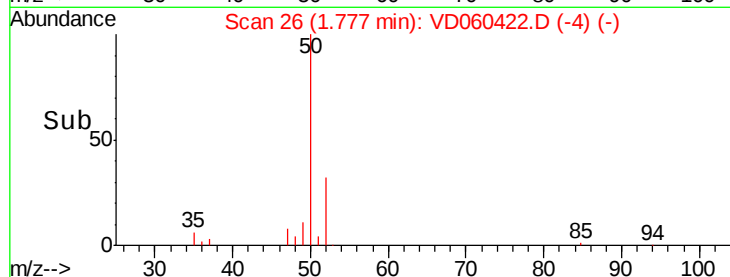
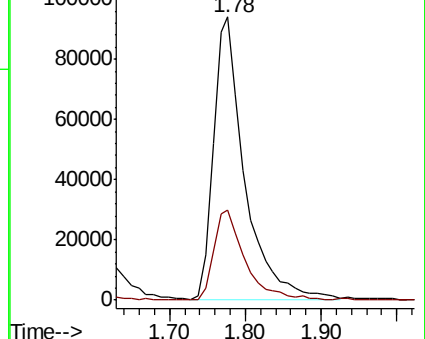
50 100

52 31.8 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 21.646 ug/l

RT: 1.87 min Scan# 35

Delta R.T. 0.01 min

Lab File: VD060422.D

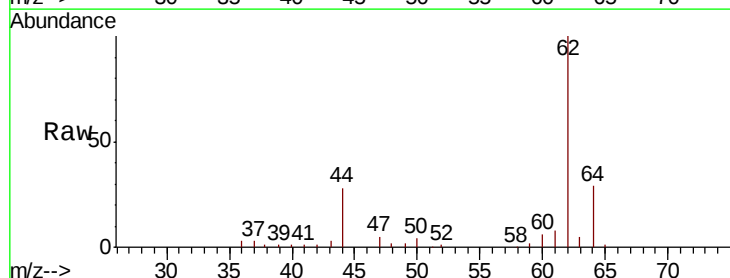
Acq: 20 Nov 2018 12:00

Tgt Ion: 62 Resp: 227286

Ion Ratio Lower Upper

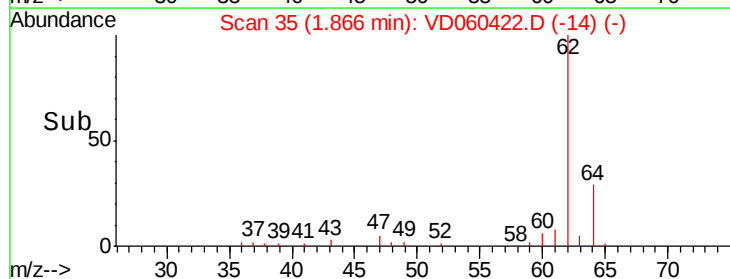
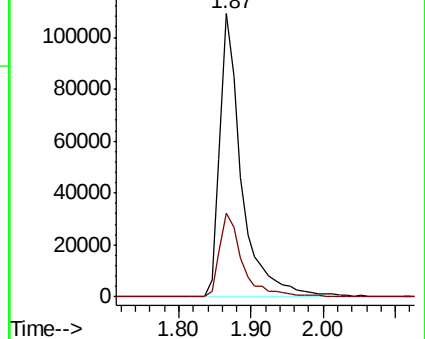
62 100

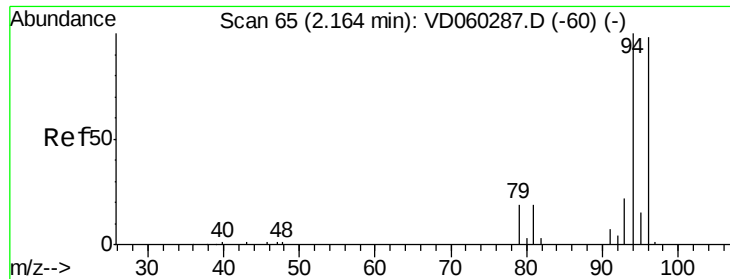
64 29.4 24.9 37.3



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 16.780 ug/l

RT: 2.16 min Scan# 65

Delta R.T. -0.00 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

Instrument :

MSVOA_D

ClientSampleId :

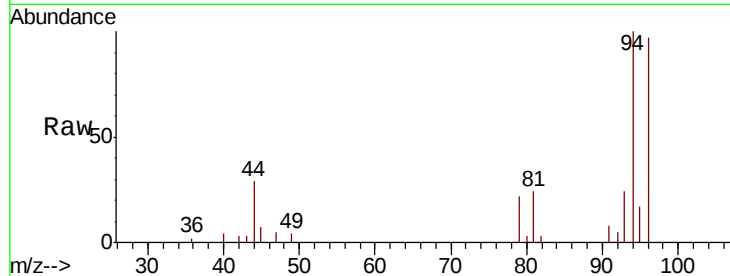
VD1120SBS01

Tot Ion: 94 Resp: 41802

Ion Ratio Lower Upper

94 100

96 96.6 76.6 114.8



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.16

15000

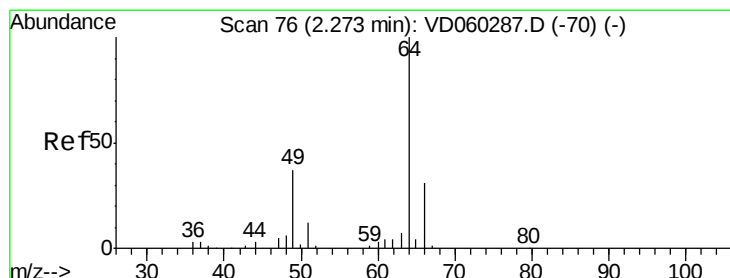
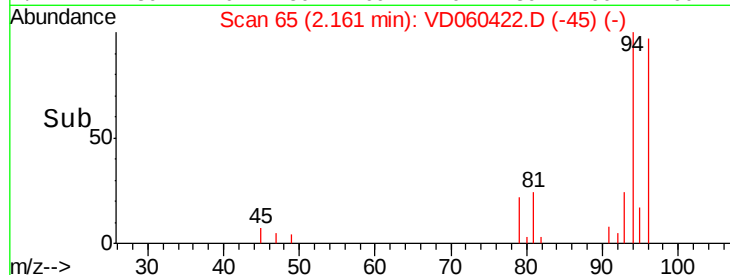
10000

5000

0

Time-->

2.10 2.20 2.30 2.40



#6

Chloroethane

Concen: 18.102 ug/l

RT: 2.27 min Scan# 76

Delta R.T. -0.00 min

Lab File: VD060422.D

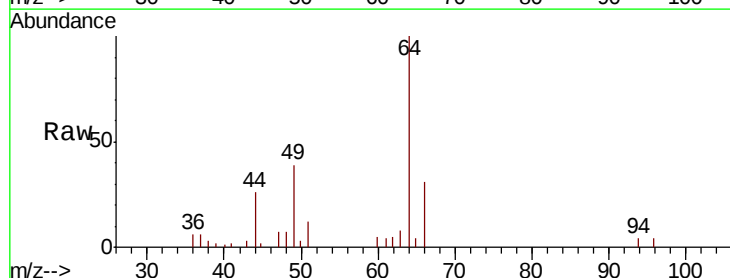
Acq: 20 Nov 2018 12:00

Tgt Ion: 64 Resp: 63067

Ion Ratio Lower Upper

64 100

66 31.1 26.6 40.0



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC

2.27

25000

20000

15000

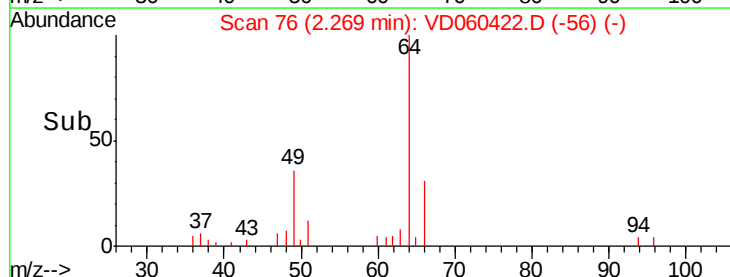
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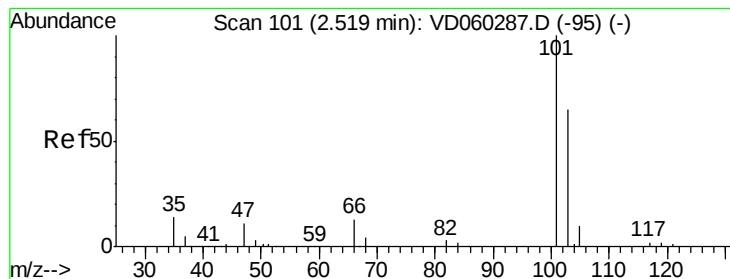
5000

0

Time-->

2.20 2.30 2.40 2.50



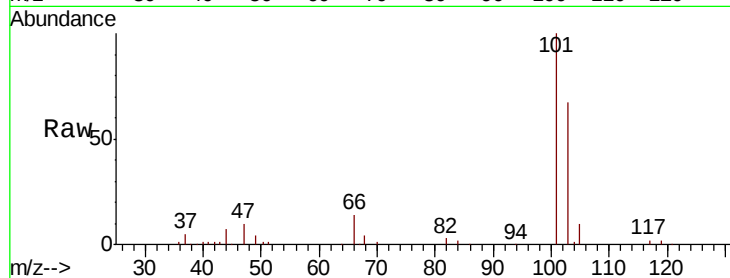


#7

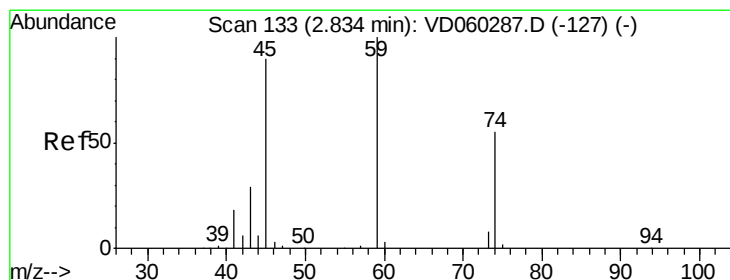
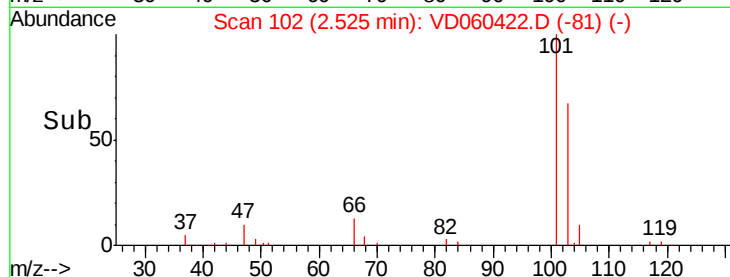
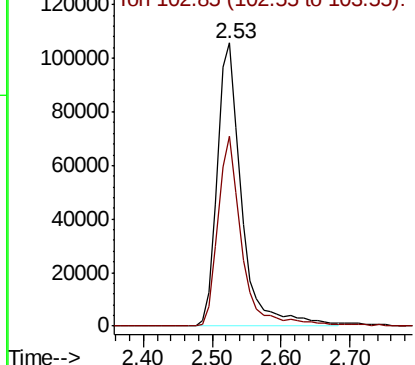
Trichlorofluoromethane
 Concen: 20.953 ug/l
 RT: 2.53 min Scan# 102
 Delta R.T. 0.01 min
 Lab File: VD060422.D
 Acq: 20 Nov 2018 12:00

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1120SBS01

Tot Ion:101 Resp: 259388
 Ion Ratio Lower Upper
 101 100
 103 67.2 53.6 80.4



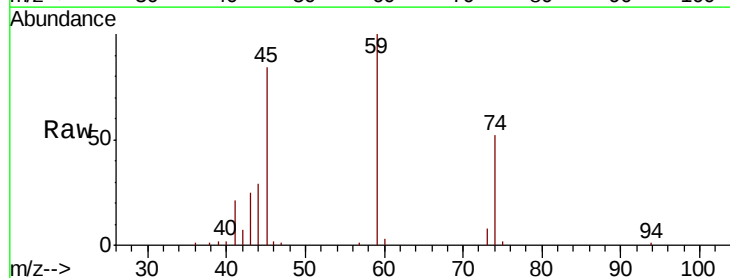
Abundance Ion 100.85 (100.55 to 101.55): V
 Ion 102.85 (102.55 to 103.55): V



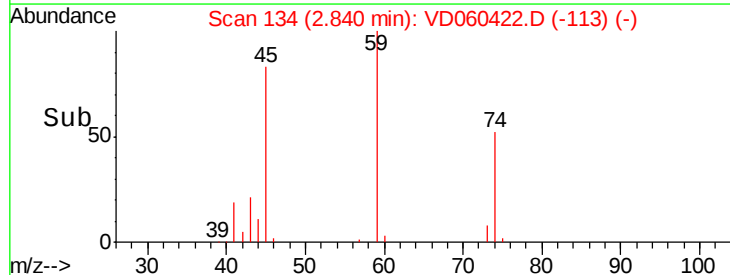
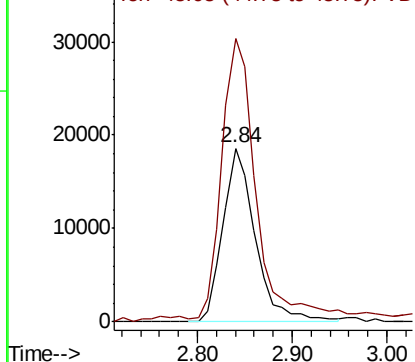
#8

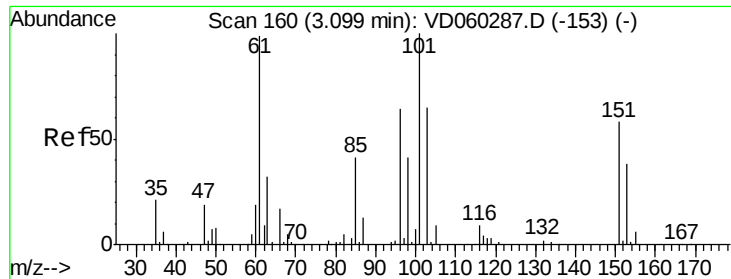
Diethyl Ether
 Concen: 19.801 ug/l
 RT: 2.84 min Scan# 134
 Delta R.T. 0.01 min
 Lab File: VD060422.D
 Acq: 20 Nov 2018 12:00

Tgt Ion: 74 Resp: 44380
 Ion Ratio Lower Upper
 74 100
 45 162.9 84.8 254.4



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





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.378 ug/l

RT: 3.11 min Scan# 161

Delta R.T. 0.01 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

Instrument :

MSVOA_D

ClientSampleId :

VD1120SBS01

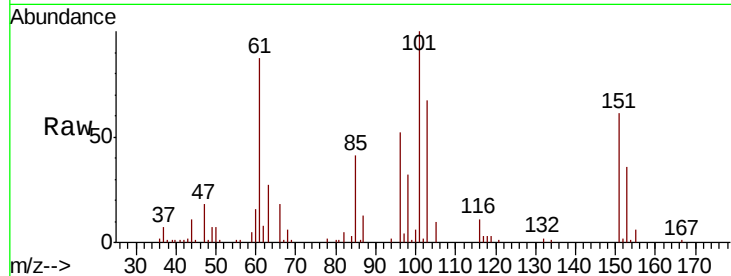
Tot Ion:101 Resp: 174064

Ion Ratio Lower Upper

101 100

85 41.4 31.4 47.0

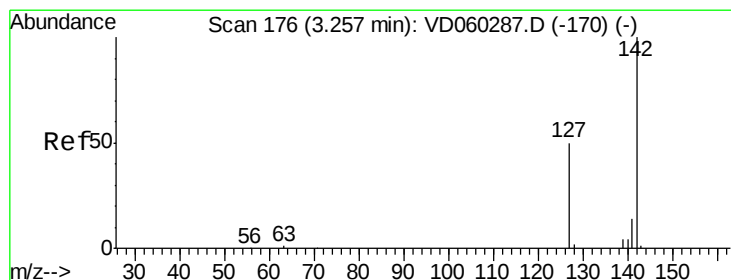
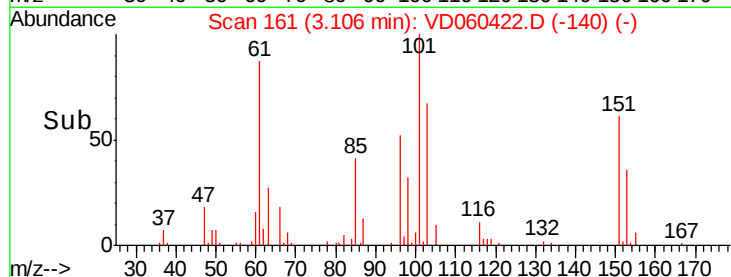
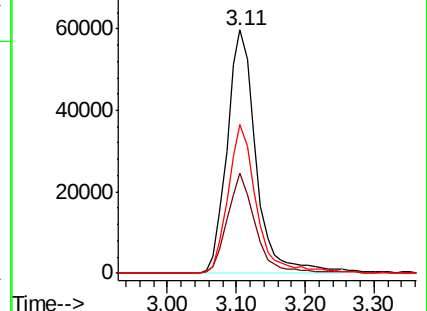
151 61.3 47.4 71.0



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: 17.984 ug/l

RT: 3.26 min Scan# 177

Delta R.T. 0.01 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

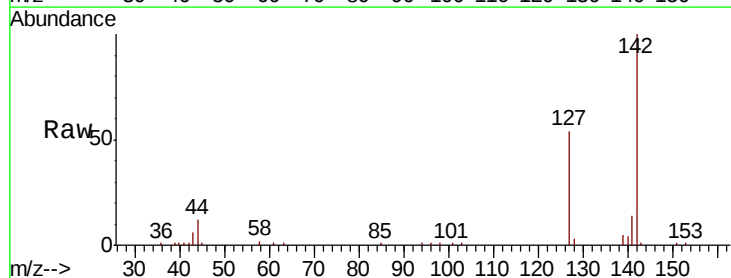
Tgt Ion:142 Resp: 190184

Ion Ratio Lower Upper

142 100

127 53.7 41.0 61.6

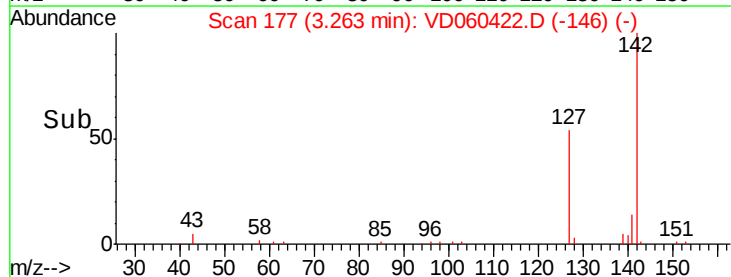
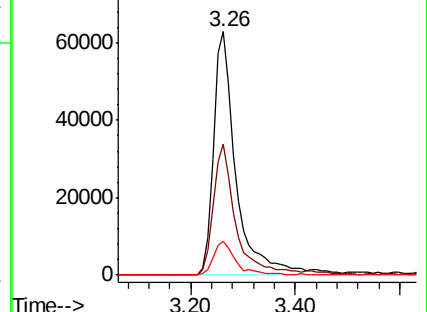
141 13.9 11.9 17.9

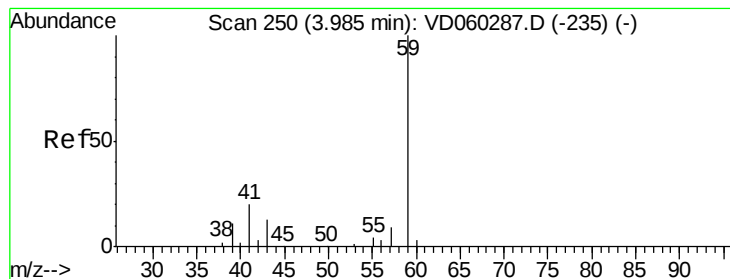


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



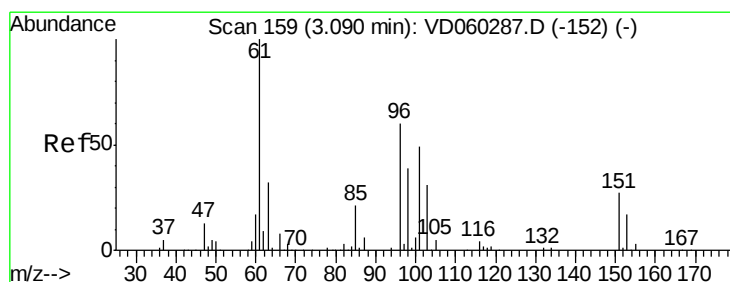
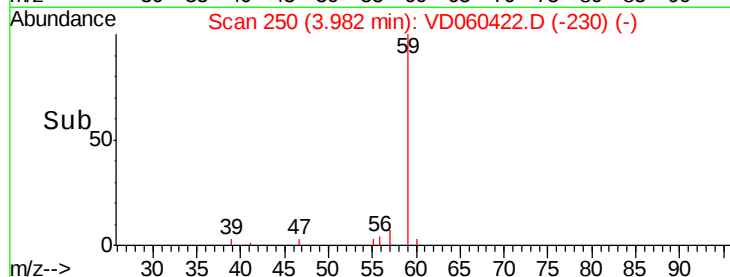
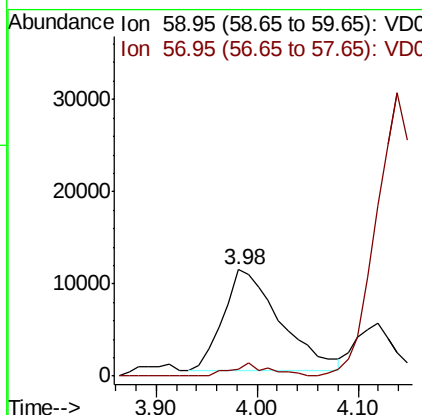
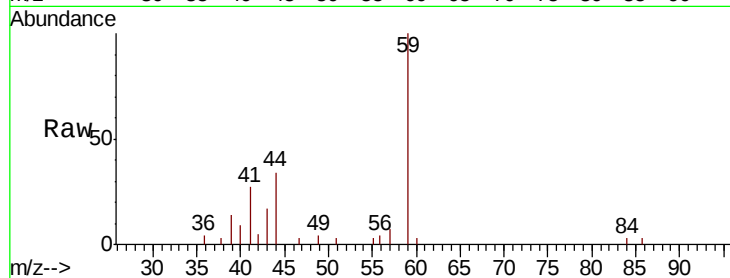


#11

Tert butyl alcohol
 Concen: 108.645 ug/l
 RT: 3.98 min Scan# 250
 Delta R.T. -0.00 min
 Lab File: VD060422.D
 Acq: 20 Nov 2018 12:00

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1120SBS01

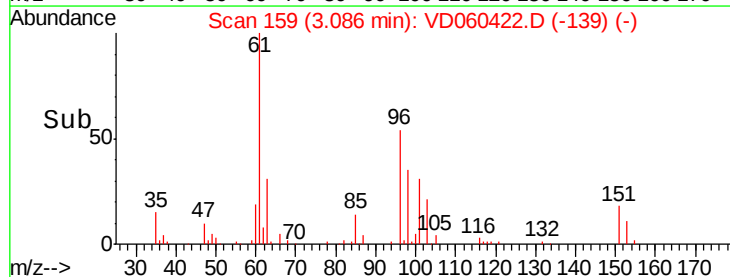
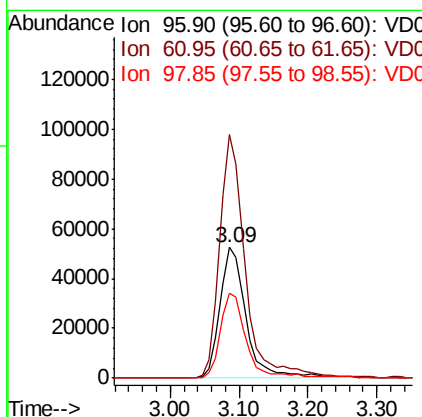
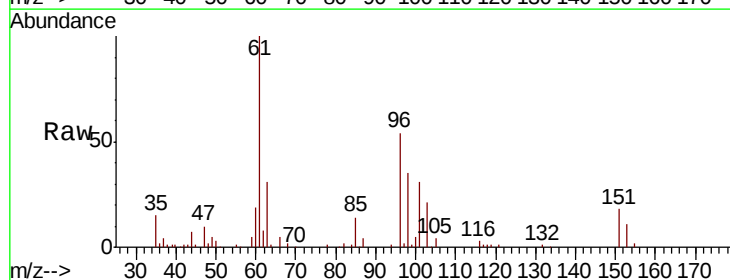
Tot Ion: 59 Resp: 43360
 Ion Ratio Lower Upper
 59 100
 57 6.7 9.3 13.9#

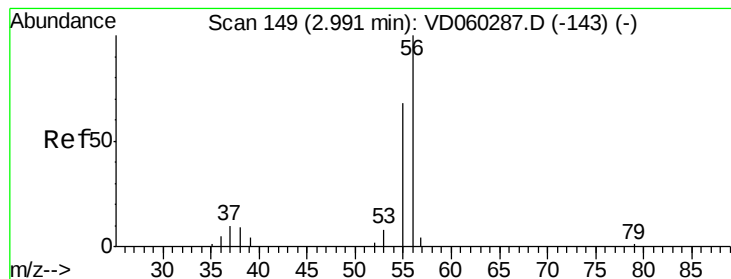


#12

1,1-Dichloroethene
 Concen: 20.943 ug/l
 RT: 3.09 min Scan# 159
 Delta R.T. -0.00 min
 Lab File: VD060422.D
 Acq: 20 Nov 2018 12:00

Tgt Ion: 96 Resp: 138708
 Ion Ratio Lower Upper
 96 100
 61 186.1 142.2 213.4
 98 64.8 52.6 79.0





#13

Acrolein

Concen: 76.819 ug/l

RT: 3.01 min Scan# 151

Delta R.T. 0.02 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

Instrument :

MSVOA_D

ClientSampleId :

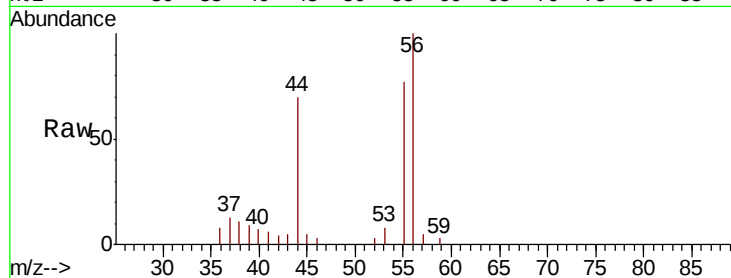
VD1120SBS01

Tot Ion: 56 Resp: 36226

Ion Ratio Lower Upper

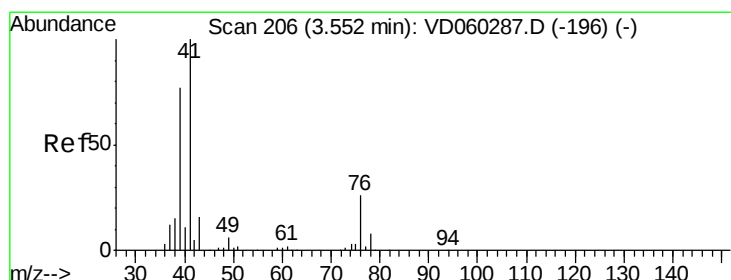
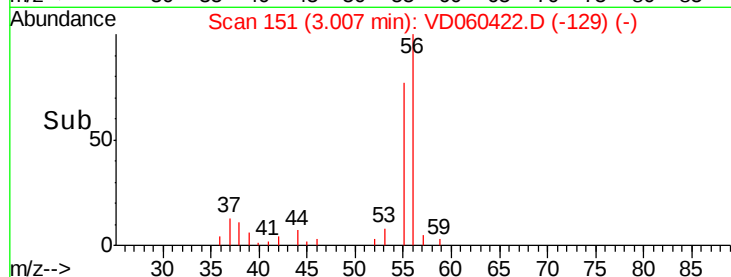
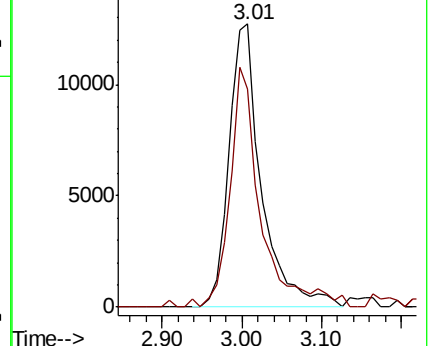
56 100

55 76.9 57.0 85.6



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 20.984 ug/l

RT: 3.55 min Scan# 206

Delta R.T. -0.00 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

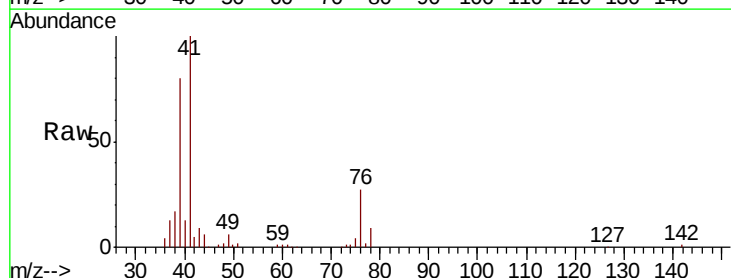
Tgt Ion: 41 Resp: 265920

Ion Ratio Lower Upper

41 100

39 79.7 60.4 90.6

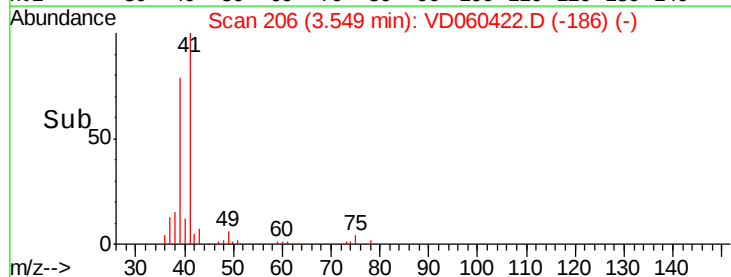
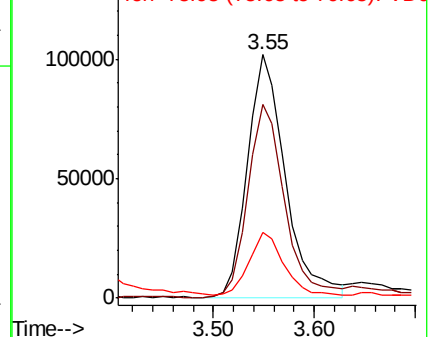
76 27.0 21.8 32.8

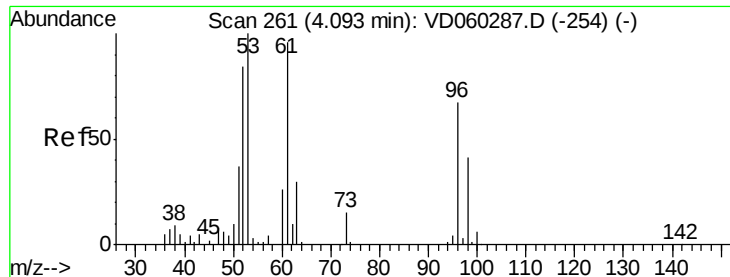


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 110.669 ug/l

RT: 4.10 min Scan# 262

Delta R.T. 0.01 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

Instrument :

MSVOA_D

ClientSampleId :

VD1120SBS01

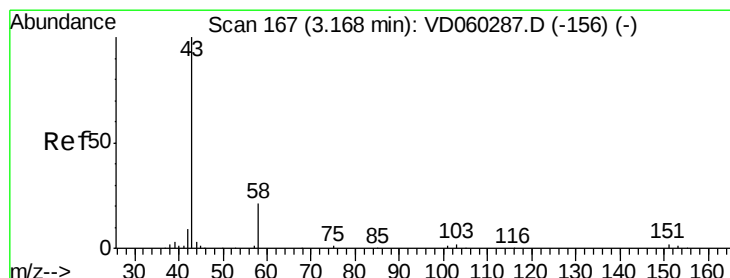
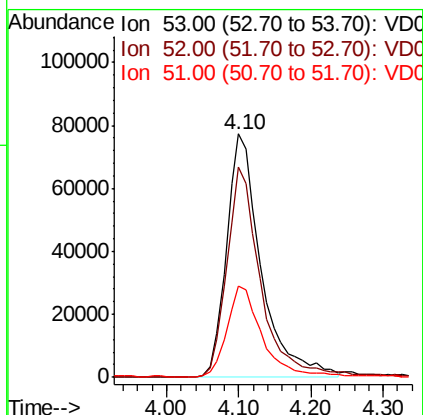
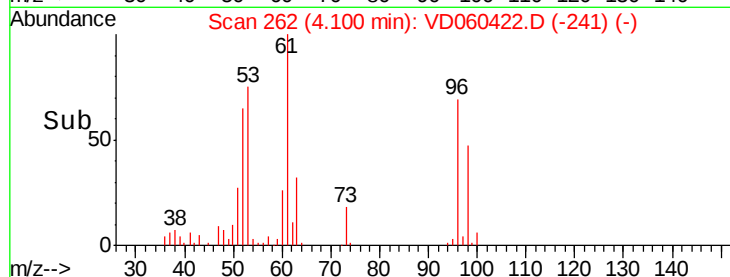
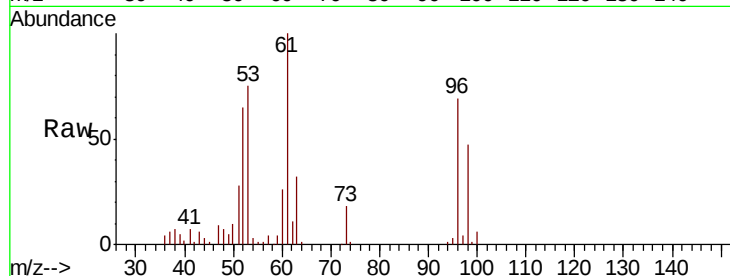
Tot Ion: 53 Resp: 257562

Ion Ratio Lower Upper

53 100

52 86.6 67.0 100.4

51 37.2 29.9 44.9



#16

Acetone

Concen: 109.961 ug/l

RT: 3.17 min Scan# 168

Delta R.T. 0.01 min

Lab File: VD060422.D

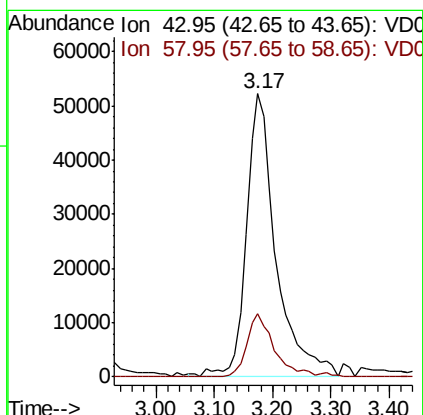
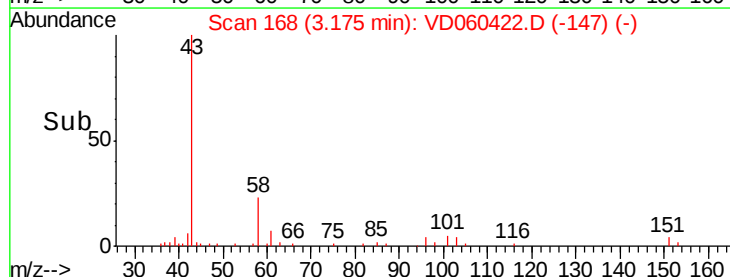
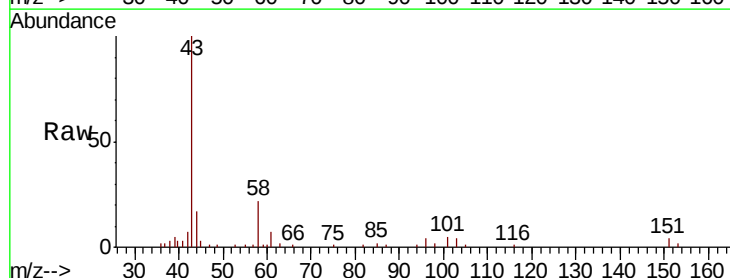
Acq: 20 Nov 2018 12:00

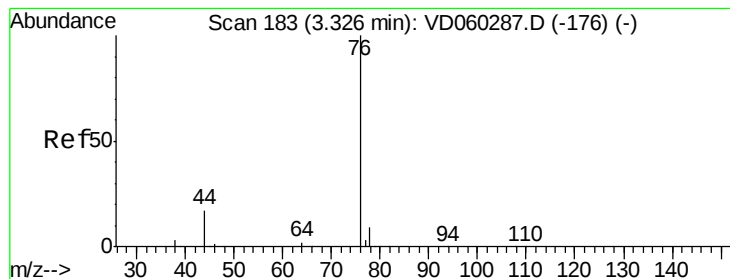
Tgt Ion: 43 Resp: 185380

Ion Ratio Lower Upper

43 100

58 22.4 16.9 25.3





#17

Carbon Disulfide

Concen: 19.258 ug/l

RT: 3.33 min Scan# 184

Delta R.T. 0.01 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

Instrument :

MSVOA_D

ClientSampleId :

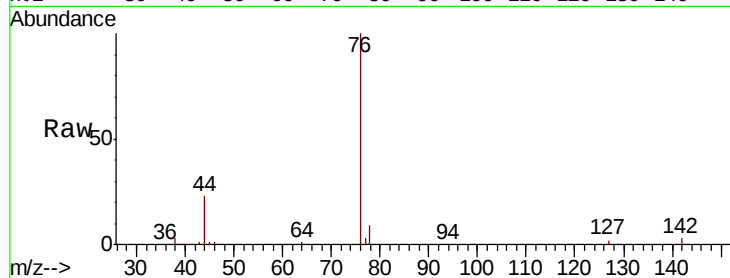
VD1120SBS01

Tot Ion: 76 Resp: 411705

Ion Ratio Lower Upper

76 100

78 9.5 7.0 10.4



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

3.33

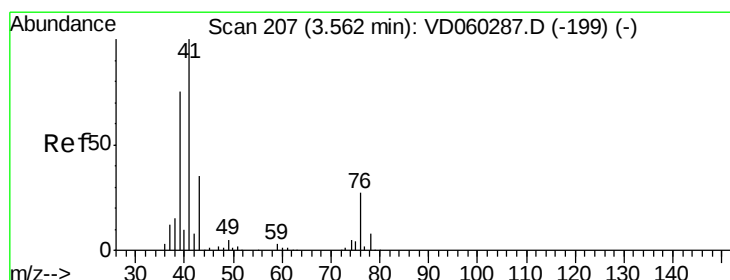
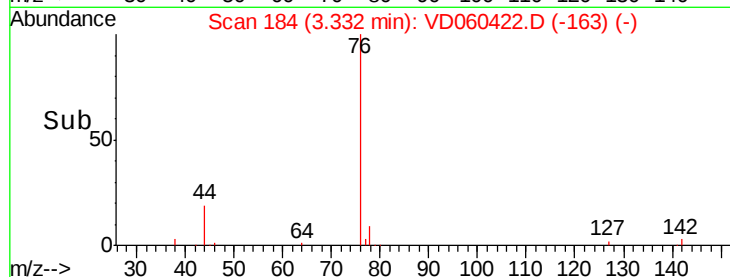
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 21.065 ug/l

RT: 3.58 min Scan# 209

Delta R.T. 0.02 min

Lab File: VD060422.D

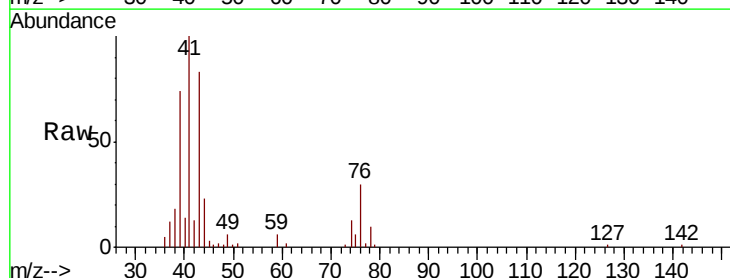
Acq: 20 Nov 2018 12:00

Tgt Ion: 43 Resp: 75722

Ion Ratio Lower Upper

43 100

74 15.6 12.4 18.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

3.58

30000

25000

20000

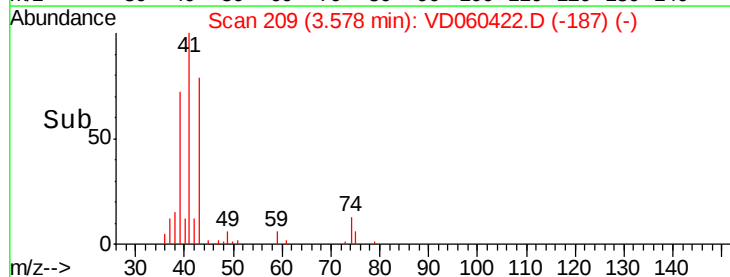
15000

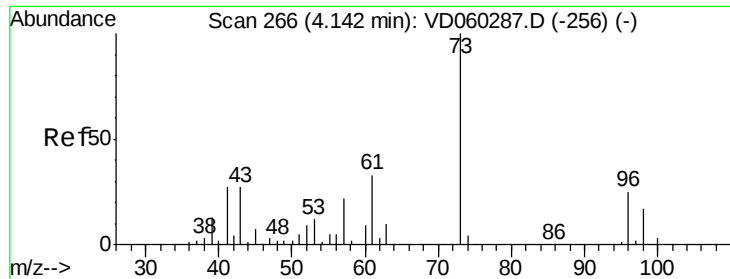
10000

5000

0

Time-->

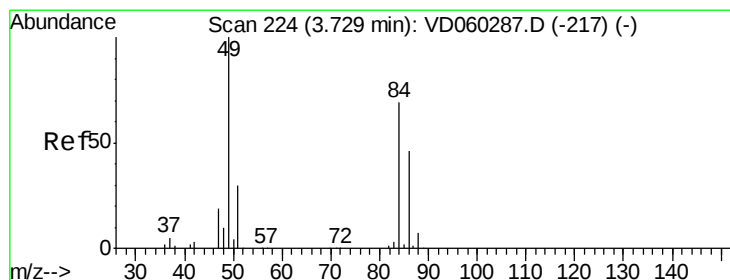
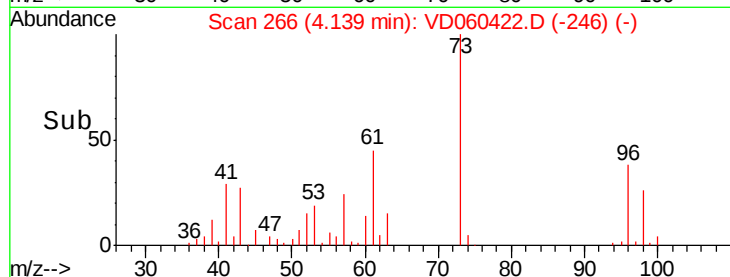
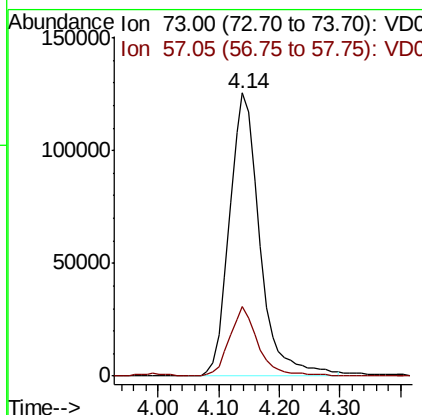
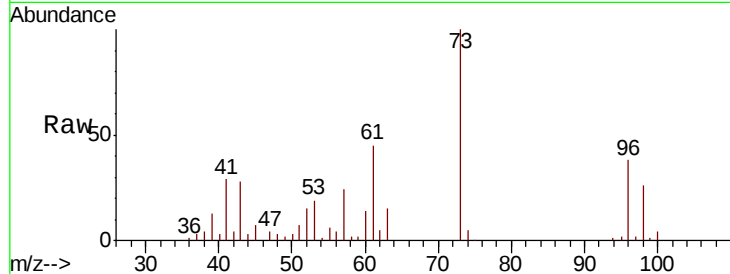




#19
Methyl tert-butyl Ether
Concen: 22.152 ug/l
RT: 4.14 min Scan# 266
Delta R.T. -0.00 min
Lab File: VD060422.D
Acq: 20 Nov 2018 12:00

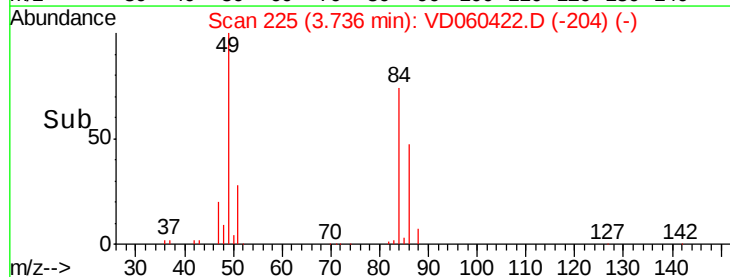
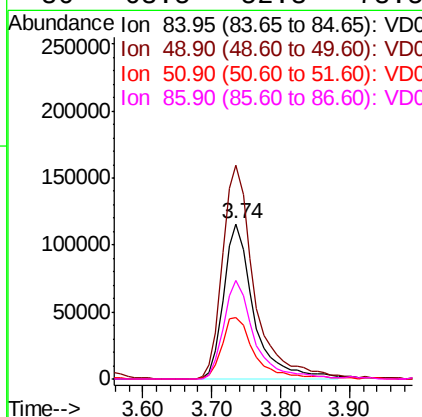
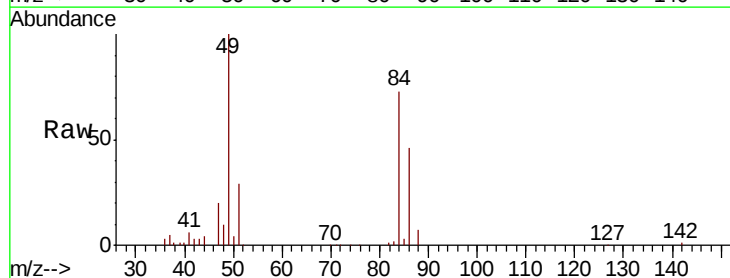
Instrument :
MSVOA_D
ClientSampleId :
VD1120SBS01

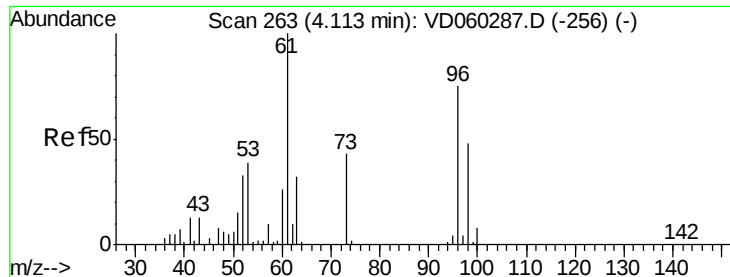
Tot Ion: 73 Resp: 439319
Ion Ratio Lower Upper
73 100
57 24.5 18.1 27.1



#20
Methylene Chloride
Concen: 23.483 ug/l
RT: 3.74 min Scan# 225
Delta R.T. 0.01 min
Lab File: VD060422.D
Acq: 20 Nov 2018 12:00

Tgt Ion: 84 Resp: 351181
Ion Ratio Lower Upper
84 100
49 137.5 115.6 173.4
51 39.3 35.6 53.4
86 63.5 52.3 78.5





#21

trans-1,2-Dichloroethene

Concen: 21.925 ug/l

RT: 4.12 min Scan# 264

Delta R.T. 0.01 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

Instrument :

MSVOA_D

ClientSampleId :

VD1120SBS01

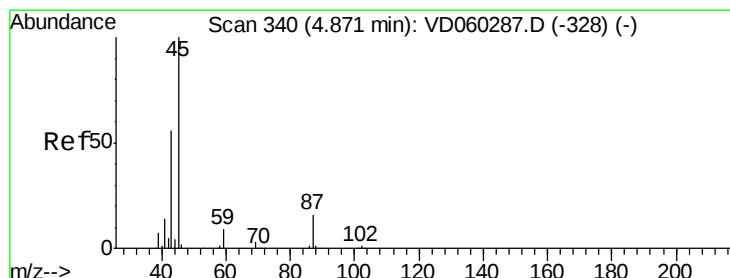
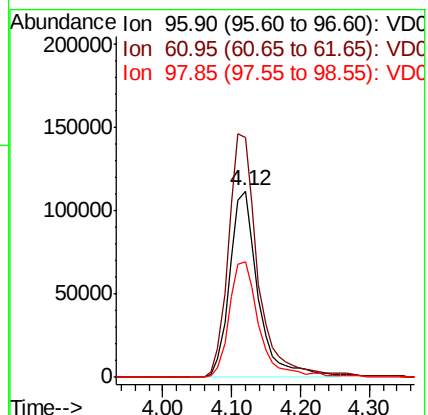
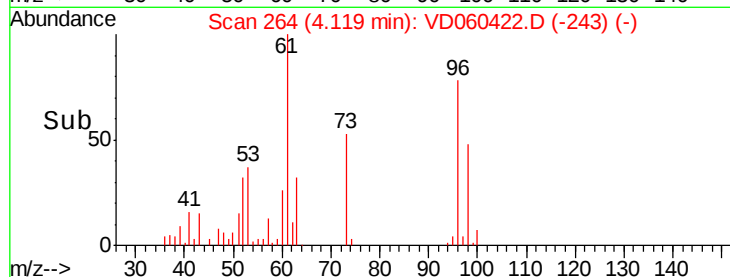
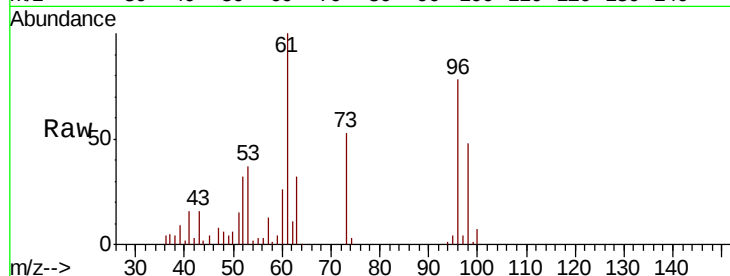
Tot Ion: 96 Resp: 322427

Ion Ratio Lower Upper

96 100

61 128.6 105.8 158.6

98 62.3 50.8 76.2



#22

Diisopropyl ether

Concen: 22.440 ug/l

RT: 4.87 min Scan# 340

Delta R.T. -0.00 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

Tgt Ion: 45 Resp: 1062409

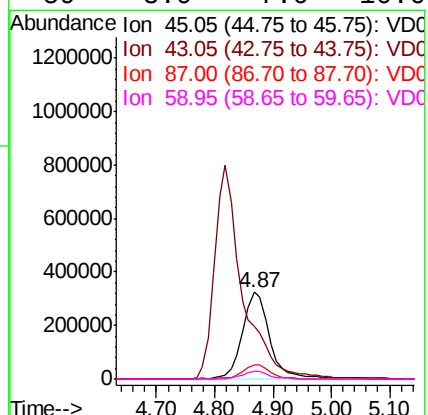
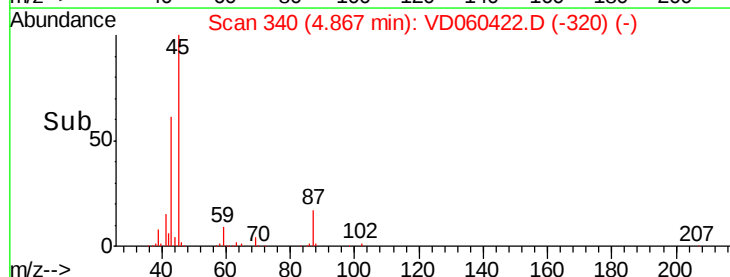
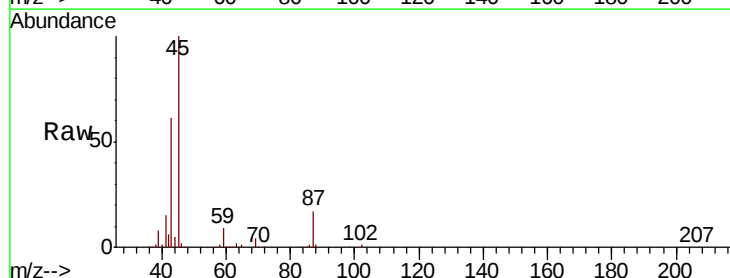
Ion Ratio Lower Upper

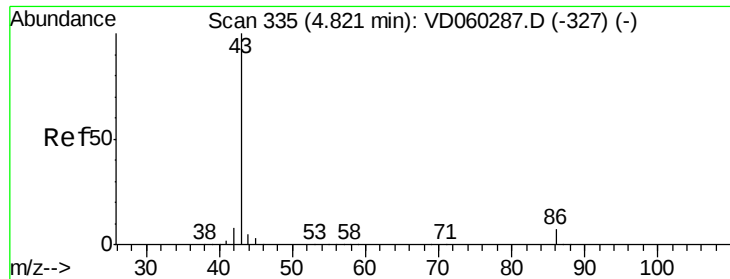
45 100

43 60.6 44.9 67.3

87 16.7 13.9 20.9

59 8.9 7.0 10.6

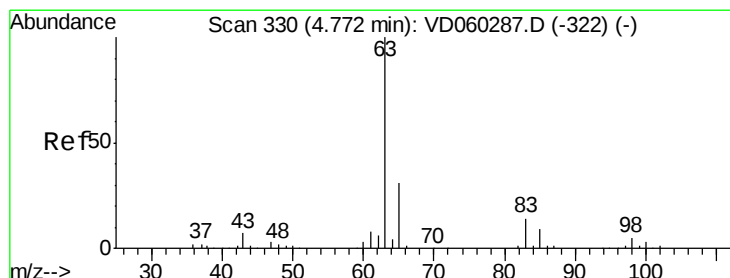
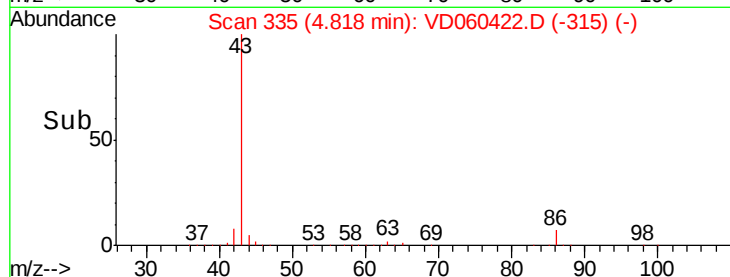
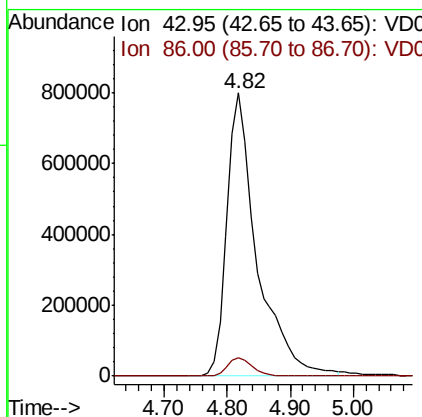
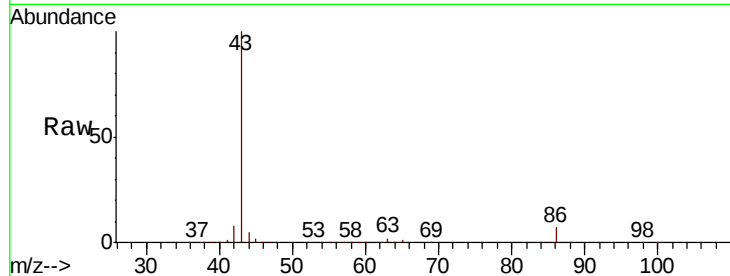




#23
 Vinyl Acetate
 Concen: 112.479 ug/l
 RT: 4.82 min Scan# 335
 Delta R.T. -0.00 min
 Lab File: VD060422.D
 Acq: 20 Nov 2018 12:00

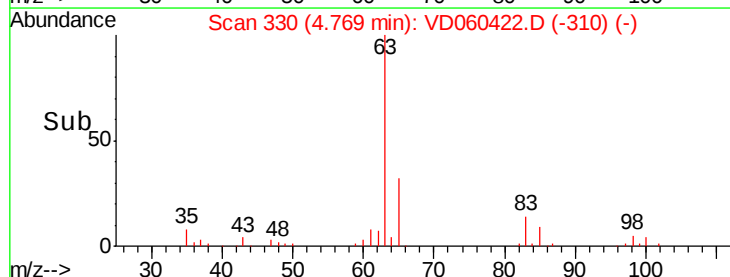
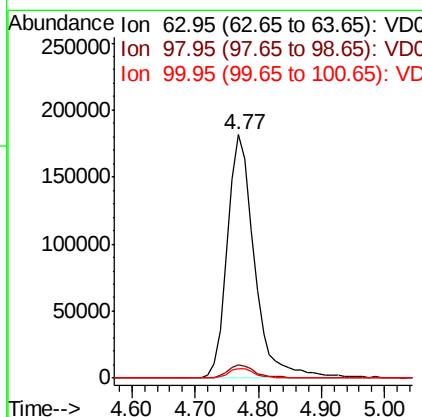
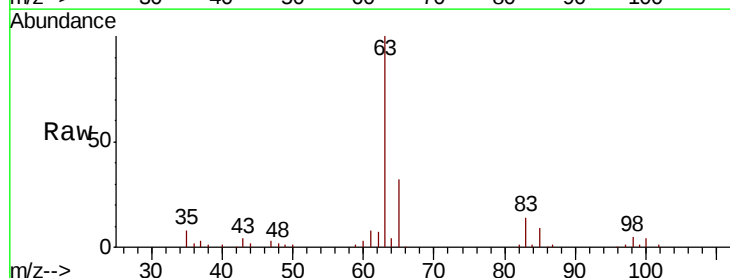
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1120SBS01

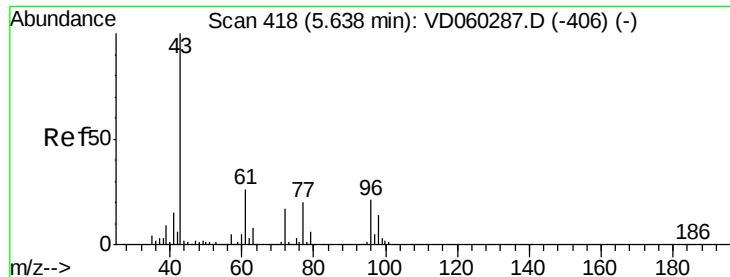
Tot Ion: 43 Resp: 2649801
 Ion Ratio Lower Upper
 43 100
 86 6.6 5.7 8.5



#24
 1,1-Dichloroethane
 Concen: 22.227 ug/l
 RT: 4.77 min Scan# 330
 Delta R.T. -0.00 min
 Lab File: VD060422.D
 Acq: 20 Nov 2018 12:00

Tgt Ion: 63 Resp: 539651
 Ion Ratio Lower Upper
 63 100
 98 5.3 2.8 8.4
 100 3.6 1.8 5.5





#25

2-Butanone

Concen: 108.970 ug/l

RT: 5.63 min Scan# 418

Delta R.T. -0.00 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

Instrument :

MSVOA_D

ClientSampleId :

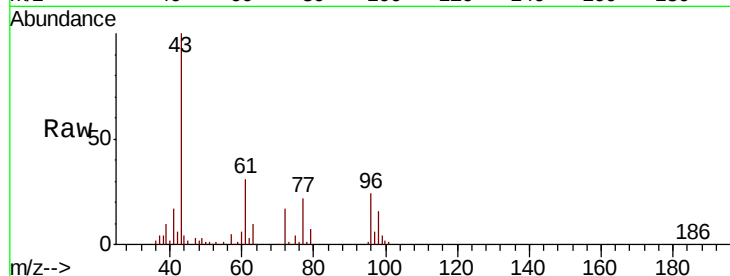
VD1120SBS01

Tot Ion: 43 Resp: 381851

Ion Ratio Lower Upper

43 100

72 16.8 13.8 20.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

150000

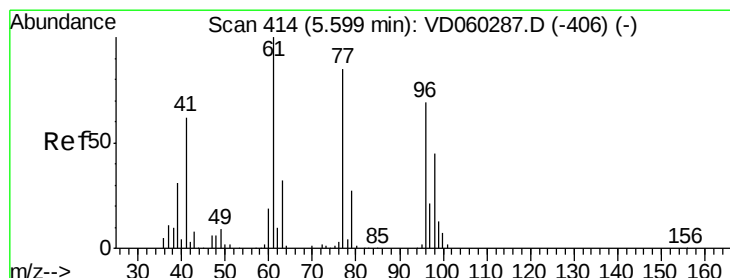
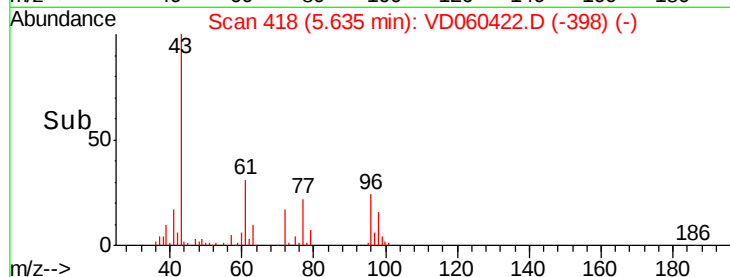
100000

50000

0

5.50 5.60 5.70

Time-->



#26

2,2-Dichloropropane

Concen: 22.781 ug/l

RT: 5.61 min Scan# 415

Delta R.T. 0.01 min

Lab File: VD060422.D

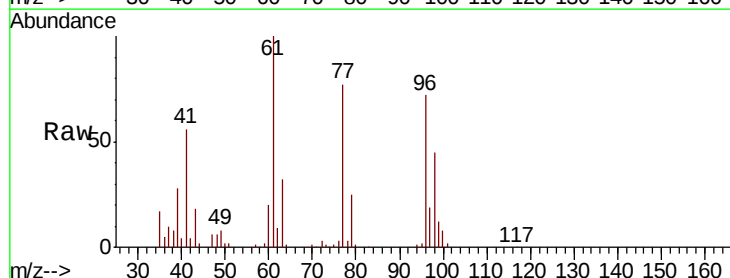
Acq: 20 Nov 2018 12:00

Tgt Ion: 77 Resp: 430002

Ion Ratio Lower Upper

77 100

97 25.3 12.6 37.8



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC

150000

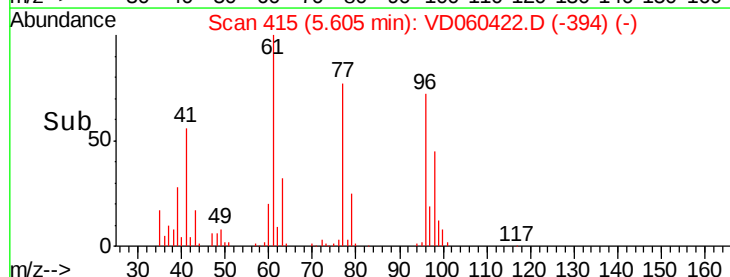
100000

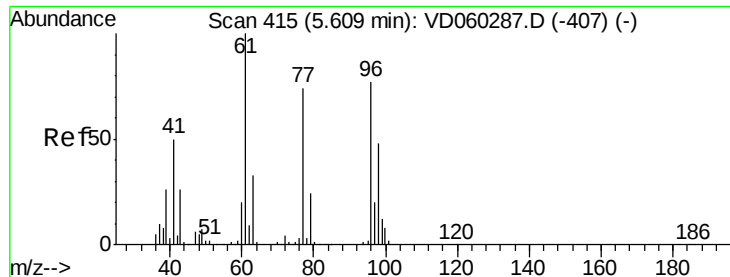
50000

0

5.40 5.50 5.60 5.70 5.80

Time-->





#27

cis-1,2-Dichloroethene

Concen: 21.942 ug/l

RT: 5.61 min Scan# 415

Delta R.T. -0.00 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

Instrument :

MSVOA_D

ClientSampleId :

VD1120SBS01

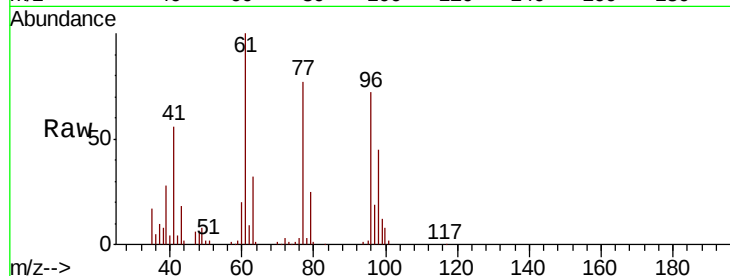
Tot Ion: 96 Resp: 336155

Ion Ratio Lower Upper

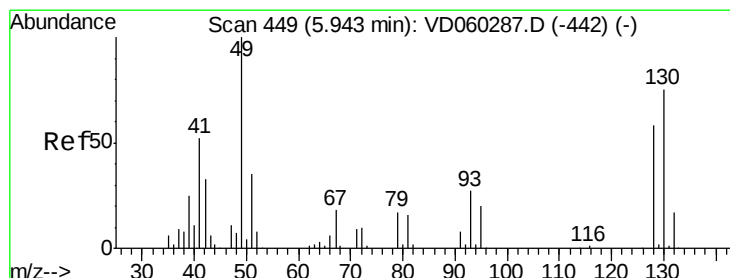
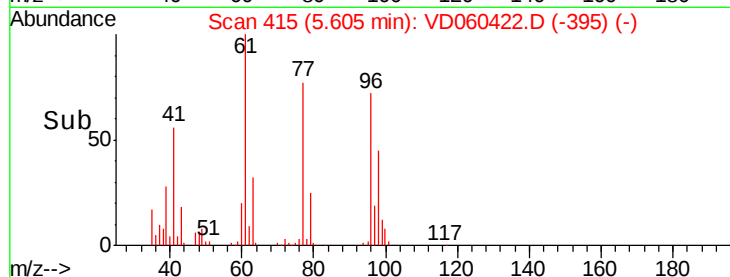
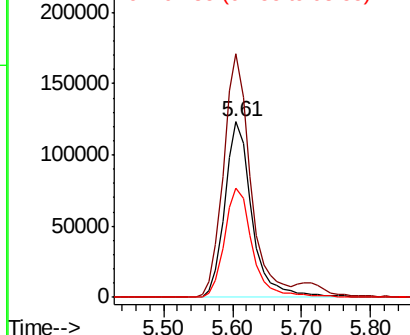
96 100

61 138.7 0.0 259.0

98 62.0 0.0 128.8



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



#28

Bromochloromethane

Concen: 21.440 ug/l

RT: 5.94 min Scan# 449

Delta R.T. -0.00 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

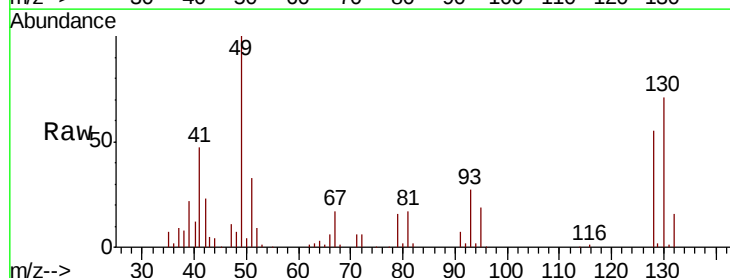
Tgt Ion: 49 Resp: 229676

Ion Ratio Lower Upper

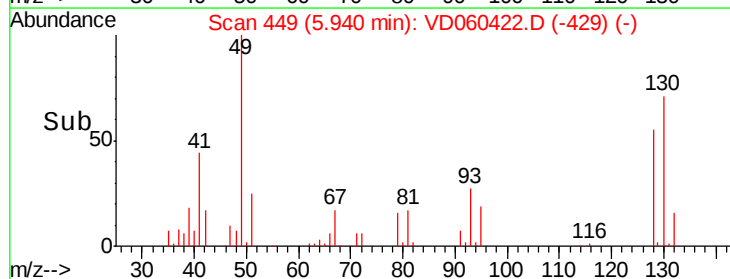
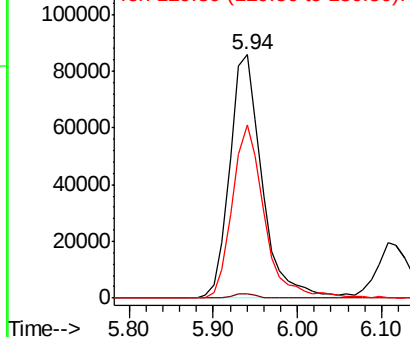
49 100

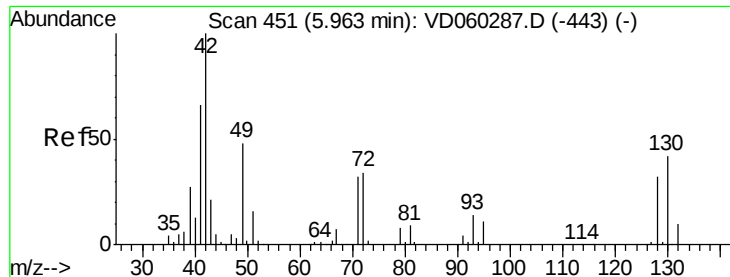
129 1.9 0.0 2.8

130 71.1 53.6 80.4



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

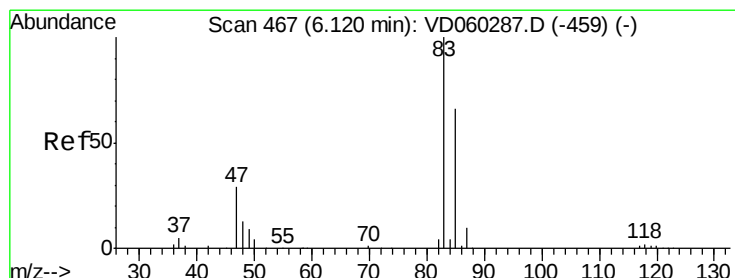
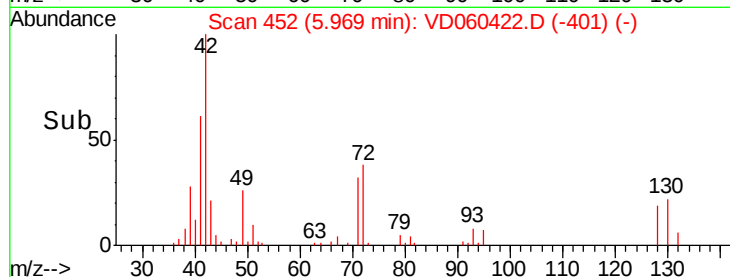
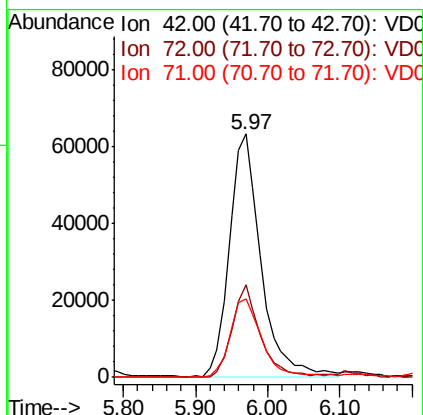
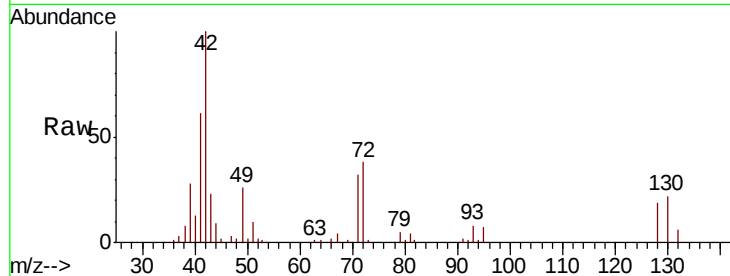




#29
Tetrahydrofuran
Concen: 105.229 ug/l
RT: 5.97 min Scan# 452
Delta R.T. 0.01 min
Lab File: VD060422.D
Acq: 20 Nov 2018 12:00

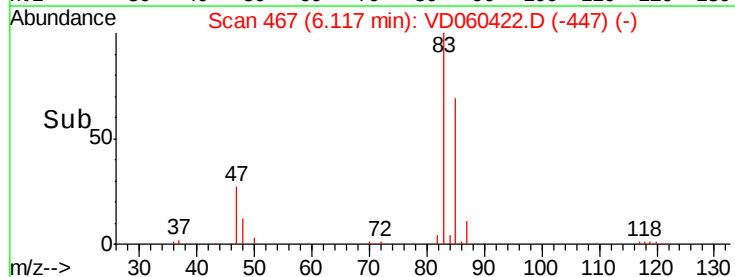
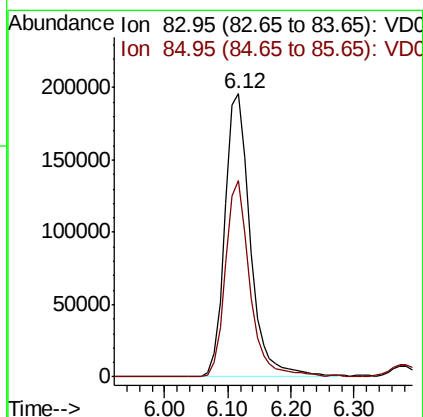
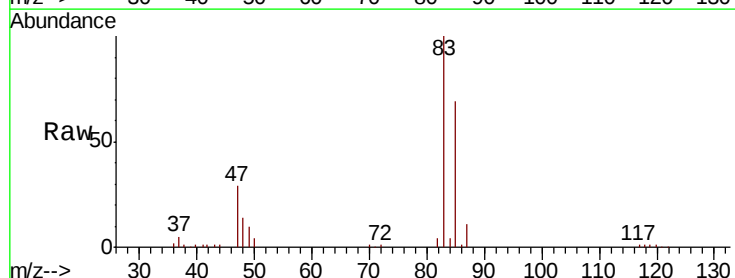
Instrument :
MSVOA_D
ClientSampleId :
VD1120SBS01

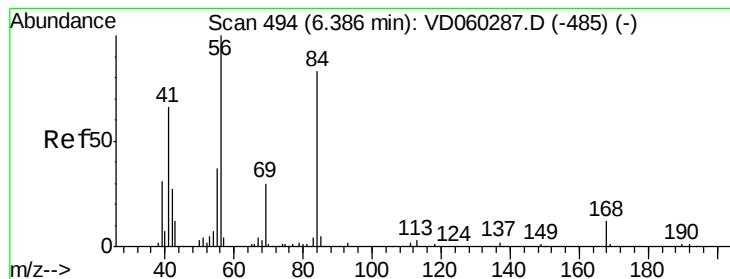
Tot Ion: 42 Resp: 194410
Ion Ratio Lower Upper
42 100
72 33.8 27.6 41.4
71 32.5 26.5 39.7



#30
Chloroform
Concen: 22.595 ug/l
RT: 6.12 min Scan# 467
Delta R.T. -0.00 min
Lab File: VD060422.D
Acq: 20 Nov 2018 12:00

Tgt Ion: 83 Resp: 548422
Ion Ratio Lower Upper
83 100
85 69.3 52.5 78.7





#31

Cyclohexane

Concen: 20.853 ug/l

RT: 6.38 min Scan# 494

Delta R.T. -0.00 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

Instrument :

MSVOA_D

ClientSampleId :

VD1120SBS01

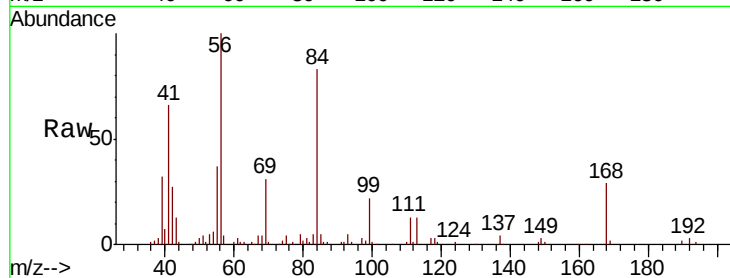
Tot Ion: 56 Resp: 483905

Ion Ratio Lower Upper

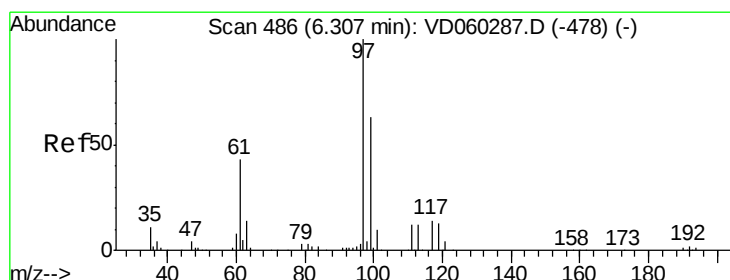
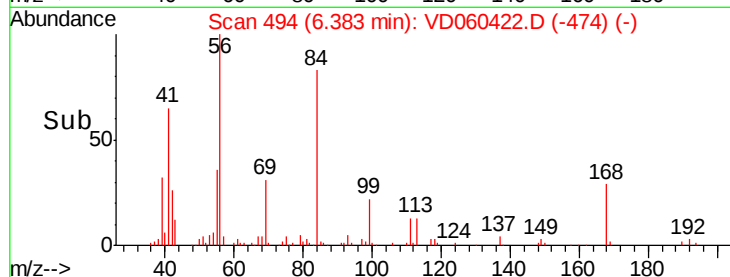
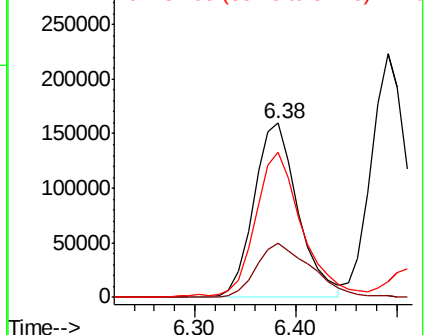
56 100

69 31.3 22.2 33.2

84 83.1 63.0 94.4



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



#32

1,1,1-Trichloroethane

Concen: 22.296 ug/l

RT: 6.30 min Scan# 486

Delta R.T. -0.00 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

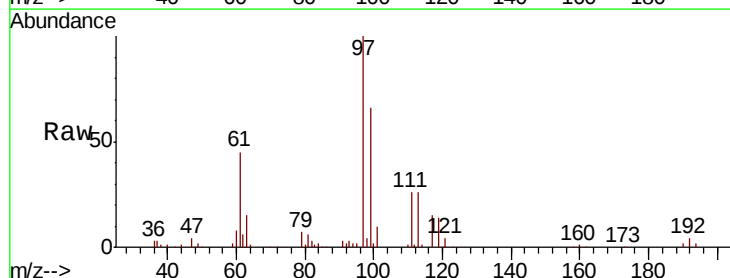
Tgt Ion: 97 Resp: 455836

Ion Ratio Lower Upper

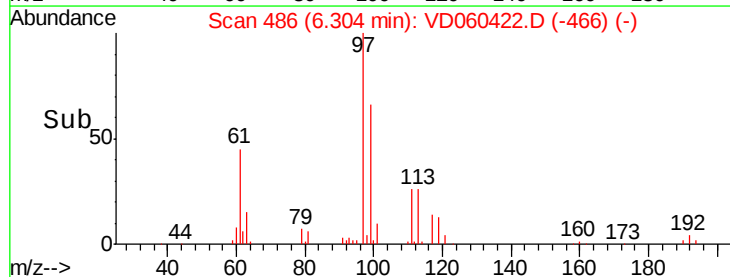
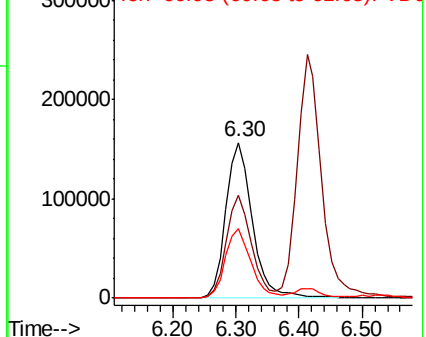
97 100

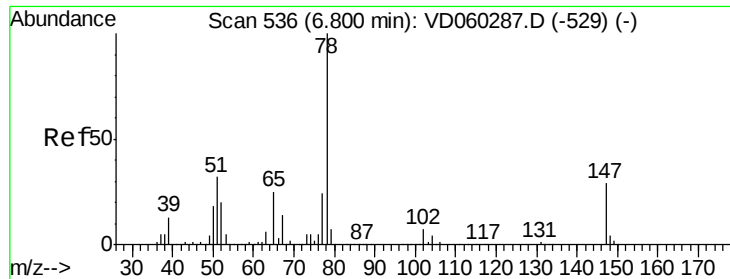
99 66.1 51.5 77.3

61 44.7 35.8 53.8



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





#33

1,2-Dichloroethane-d4

Concen: 22.296 ug/l

RT: 6.80 min Scan# 536

Delta R.T. -0.00 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

Instrument :

MSVOA_D

ClientSampleId :

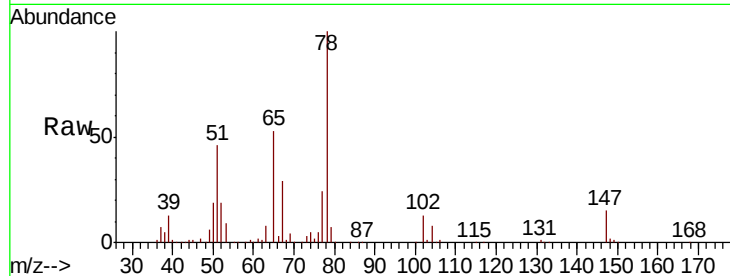
VD1120SBS01

Tot Ion: 65 Resp: 480123

Ion Ratio Lower Upper

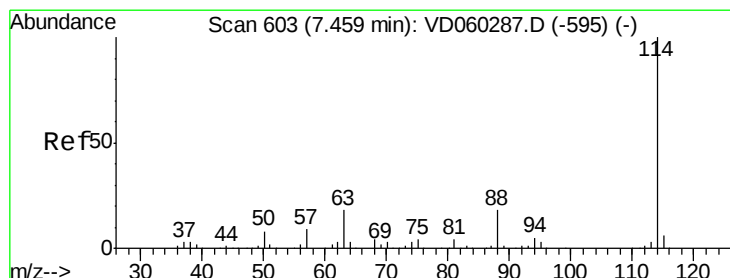
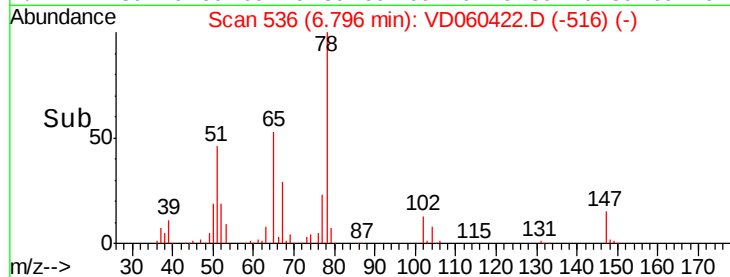
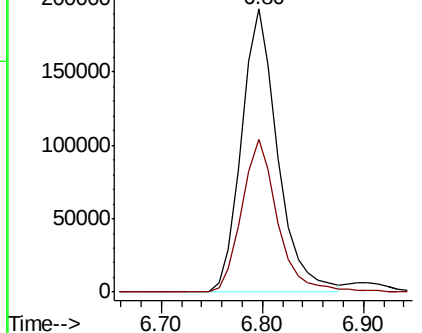
65 100

67 54.0 0.0 109.8



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: 7.46 min Scan# 603

Delta R.T. -0.00 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

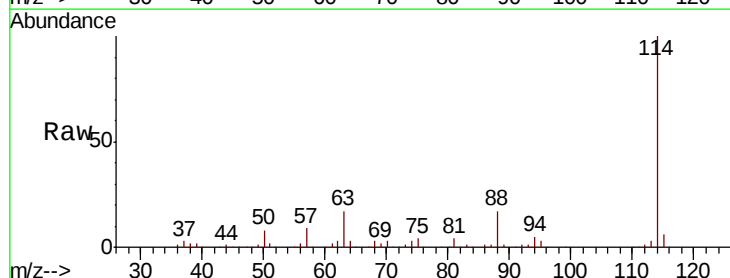
Tgt Ion:114 Resp: 1892136

Ion Ratio Lower Upper

114 100

63 17.1 0.0 34.0

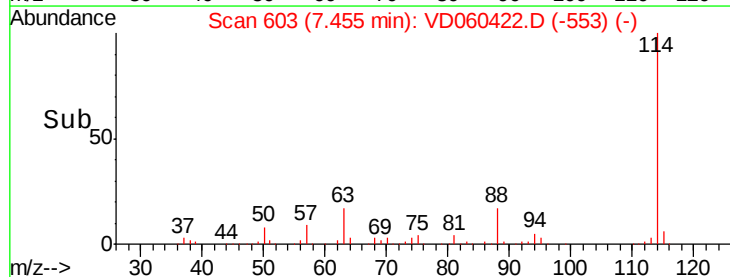
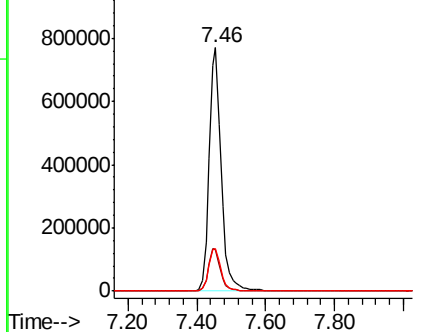
88 17.5 0.0 35.4

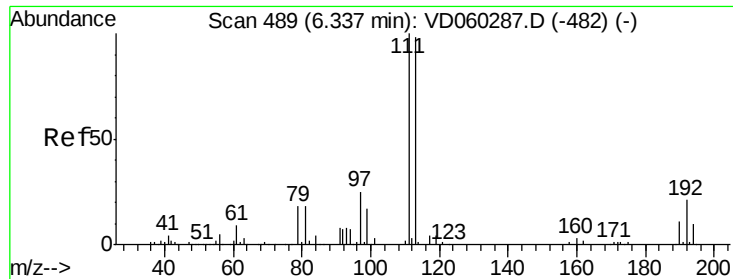


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

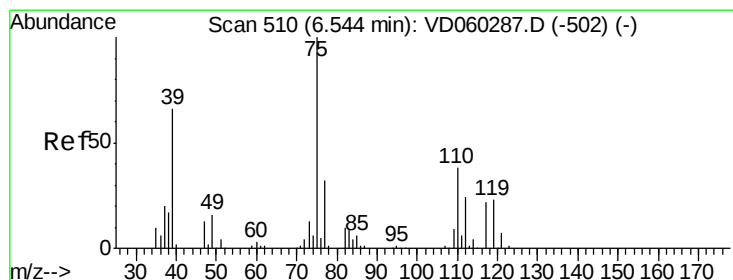
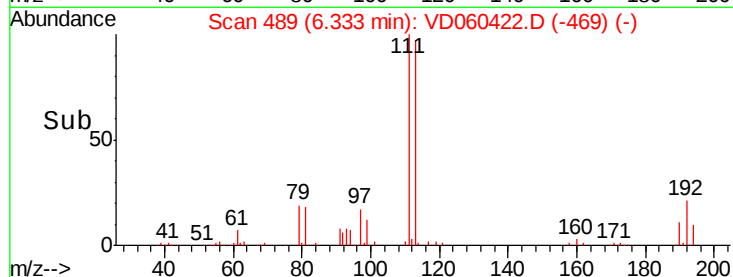
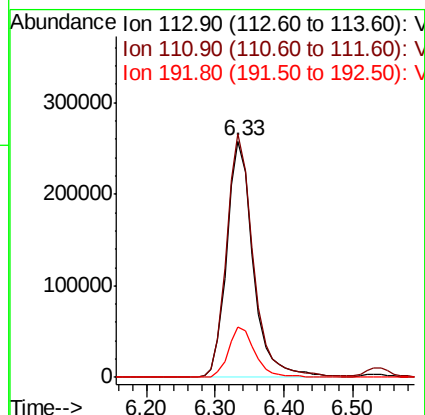
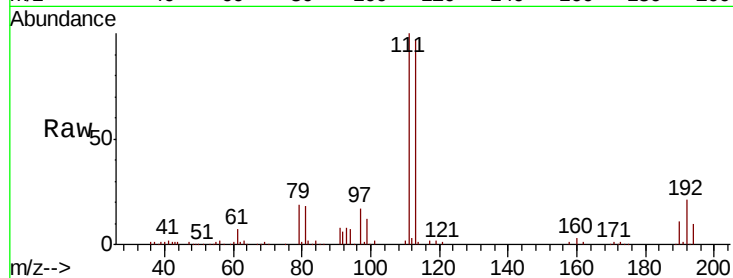




#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 6.33 min Scan# 489
Delta R.T. -0.00 min
Lab File: VD060422.D
Acq: 20 Nov 2018 12:00

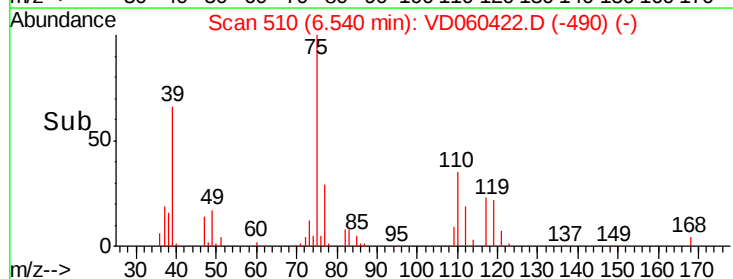
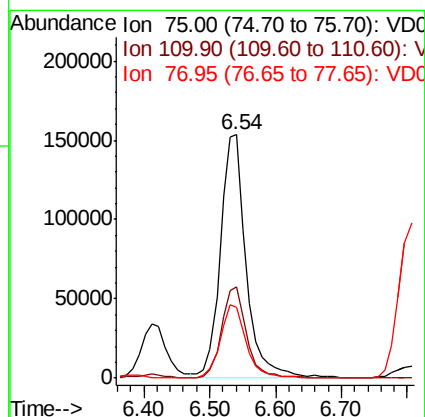
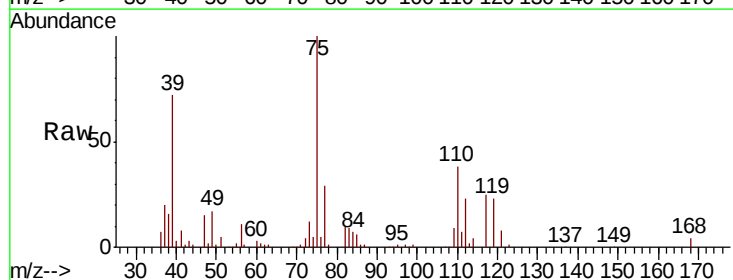
Instrument :
MSVOA_D
ClientSampleId :
VD1120SBS01

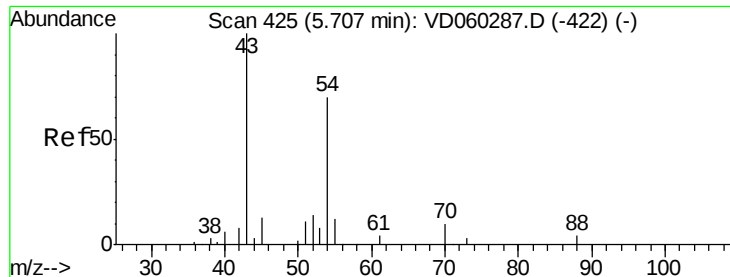
Tot Ion:113 Resp: 687630
Ion Ratio Lower Upper
113 100
111 103.0 81.6 122.4
192 21.5 16.5 24.7



#36
1,1-Dichloropropene
Concen: 22.046 ug/l
RT: 6.54 min Scan# 510
Delta R.T. -0.00 min
Lab File: VD060422.D
Acq: 20 Nov 2018 12:00

Tgt Ion: 75 Resp: 412124
Ion Ratio Lower Upper
75 100
110 37.6 18.0 54.0
77 29.2 25.6 38.4

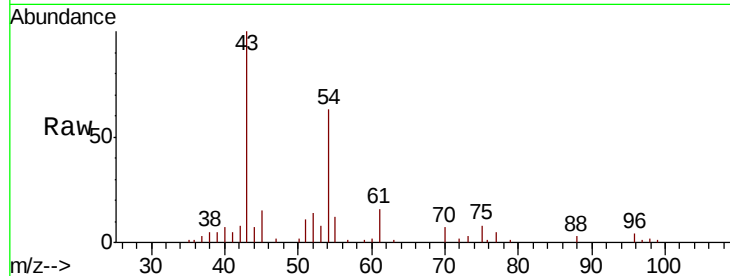




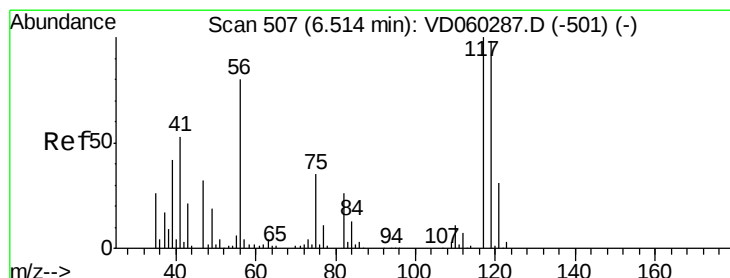
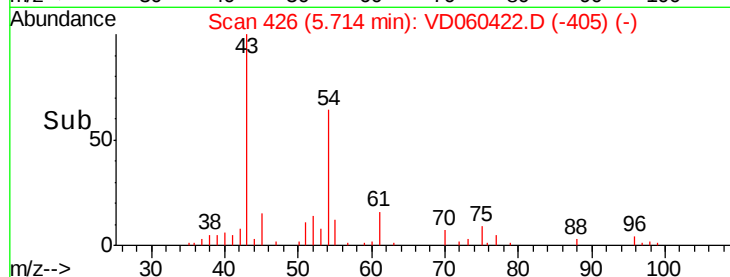
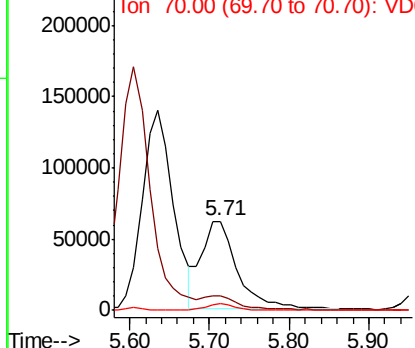
#37
Ethyl Acetate
Concen: 22.499 ug/l
RT: 5.71 min Scan# 426
Delta R.T. 0.01 min
Lab File: VD060422.D
Acq: 20 Nov 2018 12:00

Instrument :
MSVOA_D
ClientSampleId :
VD1120SBS01

Tot Ion: 43 Resp: 193537
Ion Ratio Lower Upper
43 100
61 16.3 11.8 17.6
70 7.1 6.2 9.4

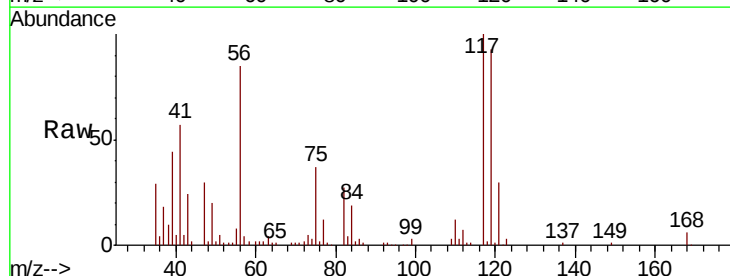


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

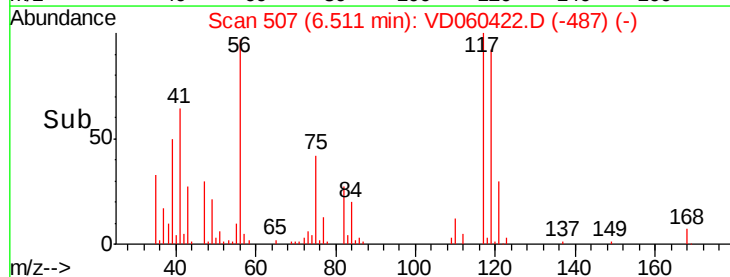
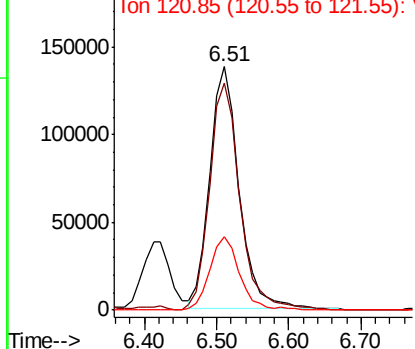


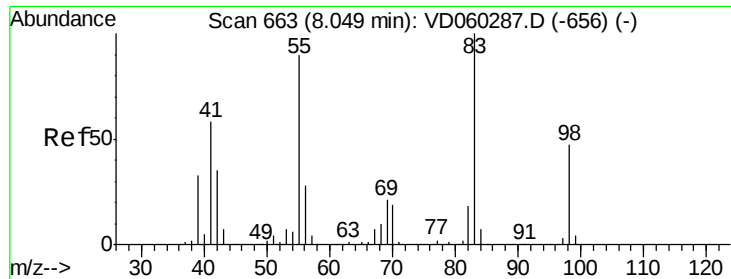
#38
Carbon Tetrachloride
Concen: 22.412 ug/l
RT: 6.51 min Scan# 507
Delta R.T. -0.00 min
Lab File: VD060422.D
Acq: 20 Nov 2018 12:00

Tgt Ion: 117 Resp: 388646
Ion Ratio Lower Upper
117 100
119 93.2 76.6 115.0
121 30.3 24.3 36.5



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

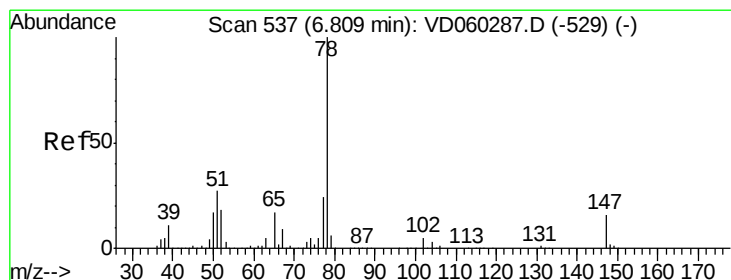
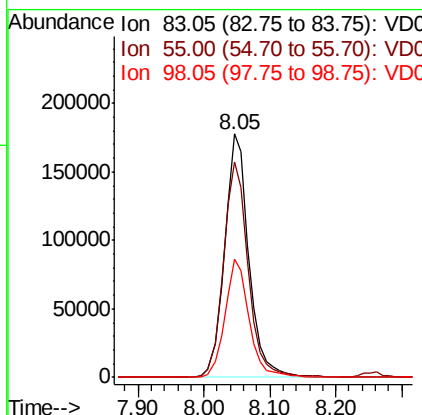
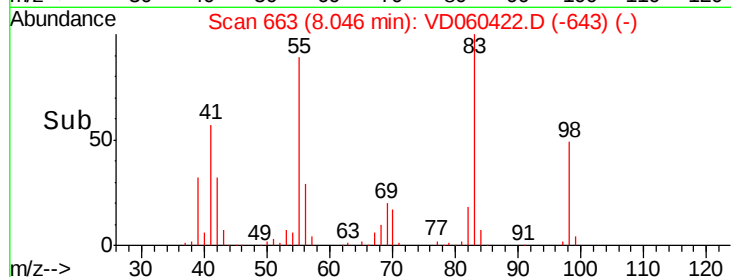
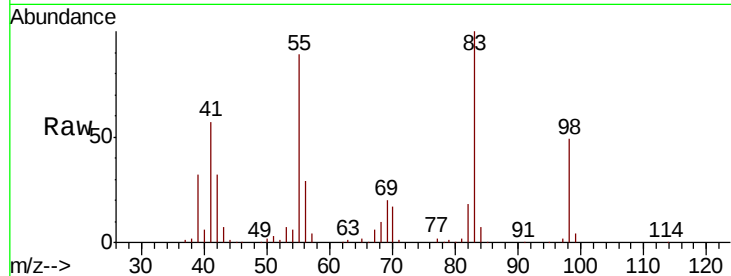




#39
Methvlcvclohexane
Concen: 21.248 ug/l
RT: 8.05 min Scan# 663
Delta R.T. -0.00 min
Lab File: VD060422.D
Acq: 20 Nov 2018 12:00

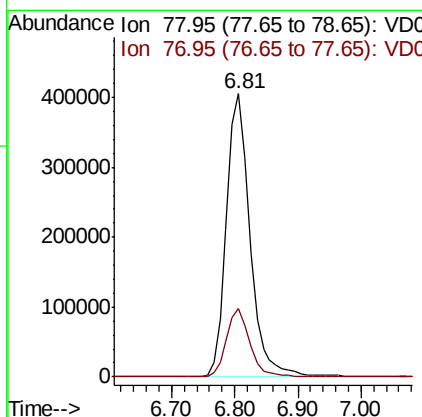
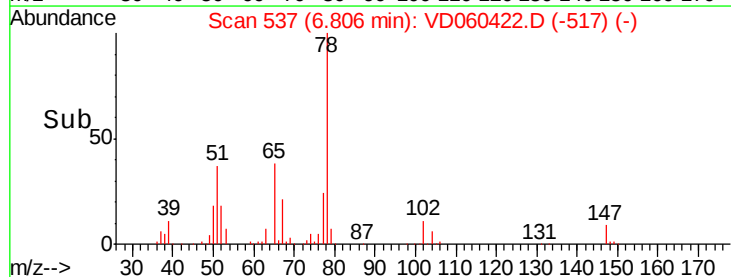
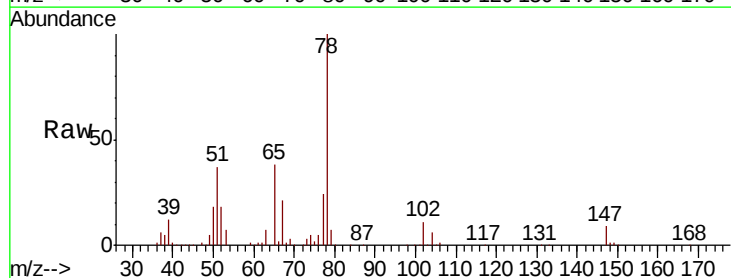
Instrument :
MSVOA_D
ClientSampleId :
VD1120SBS01

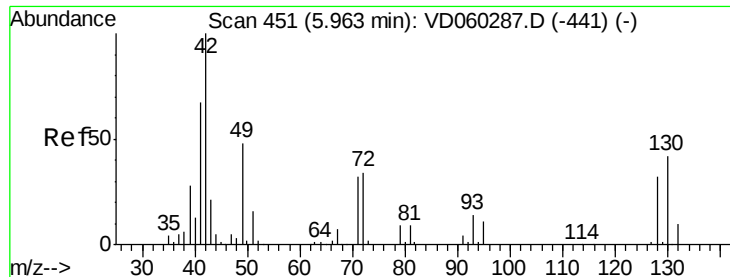
Tot Ion: 83 Resp: 456852
Ion Ratio Lower Upper
83 100
55 88.5 71.2 106.8
98 48.7 38.4 57.6



#40
Benzene
Concen: 22.097 ug/l
RT: 6.81 min Scan# 537
Delta R.T. -0.00 min
Lab File: VD060422.D
Acq: 20 Nov 2018 12:00

Tgt Ion: 78 Resp: 1054386
Ion Ratio Lower Upper
78 100
77 24.1 18.8 28.2

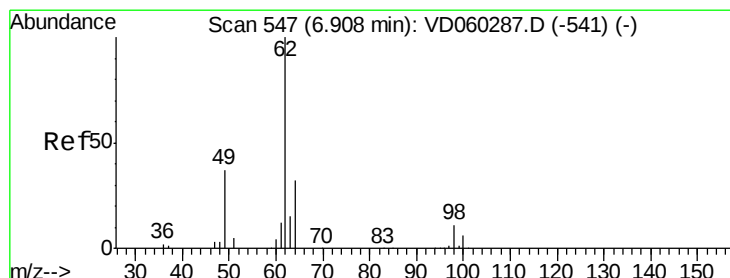
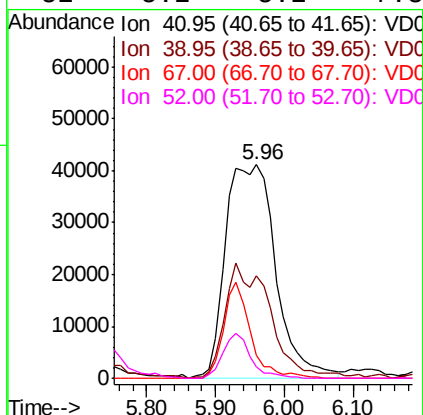
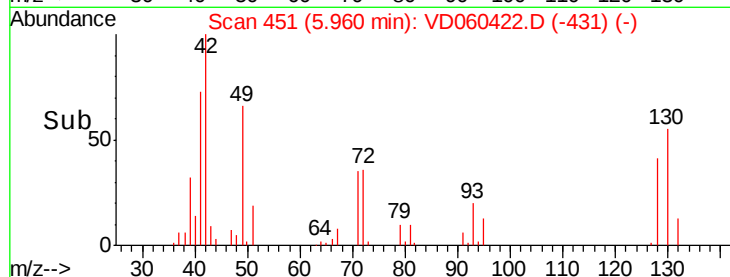
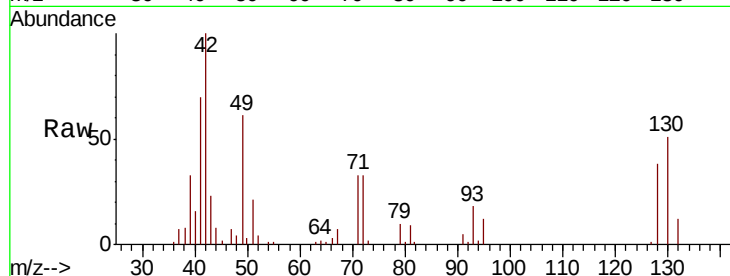




#41
Methacrylonitrile
Concen: 21.113 ug/l
RT: 5.96 min Scan# 451
Delta R.T. -0.00 min
Lab File: VD060422.D
Acq: 20 Nov 2018 12:00

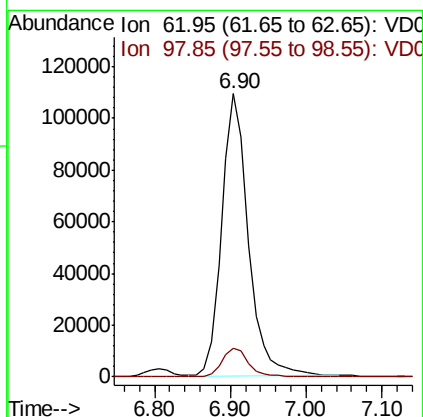
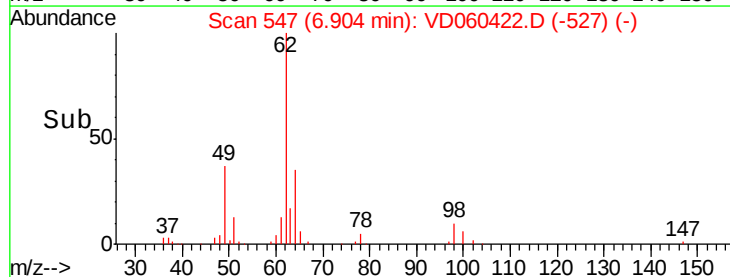
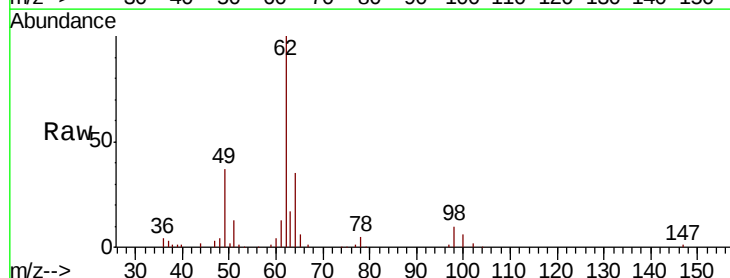
Instrument :
MSVOA_D
ClientSampleId :
VD1120SBS01

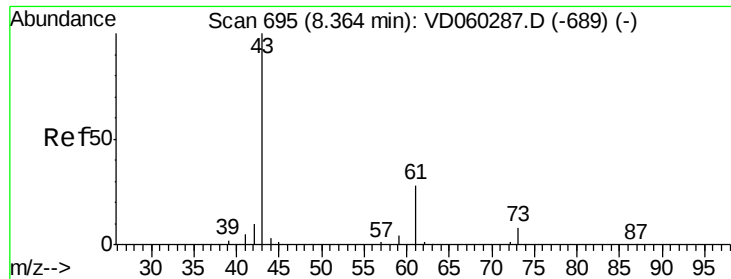
Tot Ion: 41 Resp: 207869
Ion Ratio Lower Upper
41 100
39 47.8 36.2 54.2
67 10.7 11.9 17.9#
52 5.2 5.2 7.8#



#42
1,2-Dichloroethane
Concen: 21.347 ug/l
RT: 6.90 min Scan# 547
Delta R.T. -0.00 min
Lab File: VD060422.D
Acq: 20 Nov 2018 12:00

Tgt Ion: 62 Resp: 266621
Ion Ratio Lower Upper
62 100
98 10.1 0.0 22.0





#43

Isopropyl Acetate

Concen: 21.280 ug/l

RT: 8.35 min Scan# 694

Delta R.T. -0.01 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

Instrument :

MSVOA_D

ClientSampleId :

VD1120SBS01

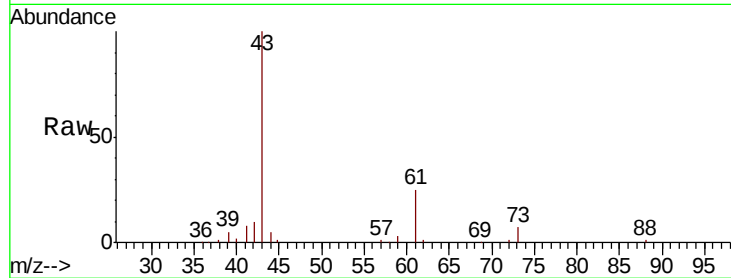
Tot Ion: 43 Resp: 229931

Ion Ratio Lower Upper

43 100

61 25.3 22.3 33.5

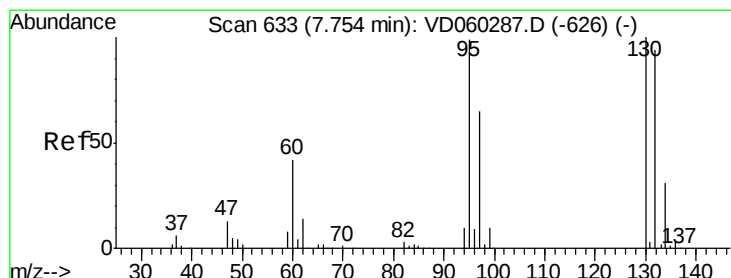
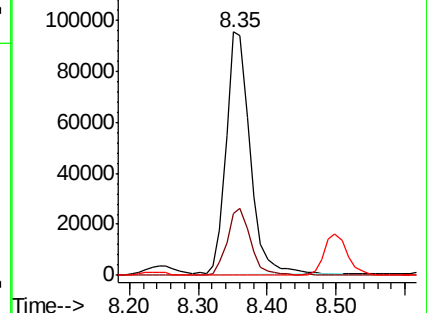
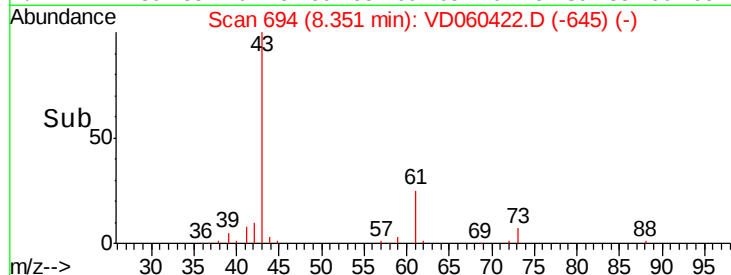
87 0.0 0.2 0.2#



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: 22.661 ug/l

RT: 7.75 min Scan# 633

Delta R.T. -0.00 min

Lab File: VD060422.D

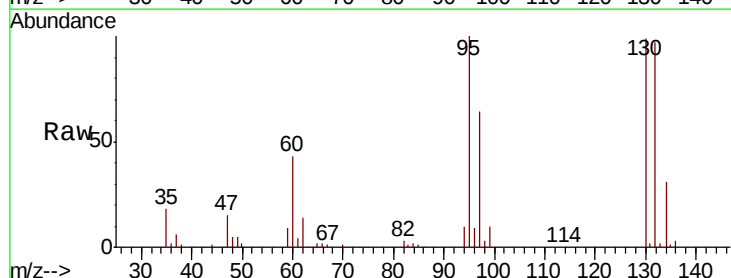
Acq: 20 Nov 2018 12:00

Tgt Ion:130 Resp: 327790

Ion Ratio Lower Upper

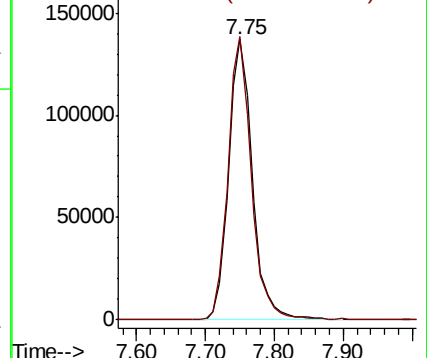
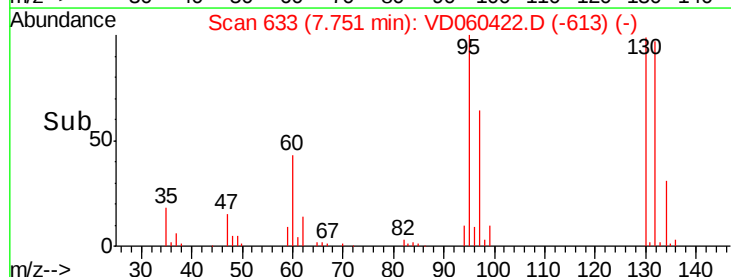
130 100

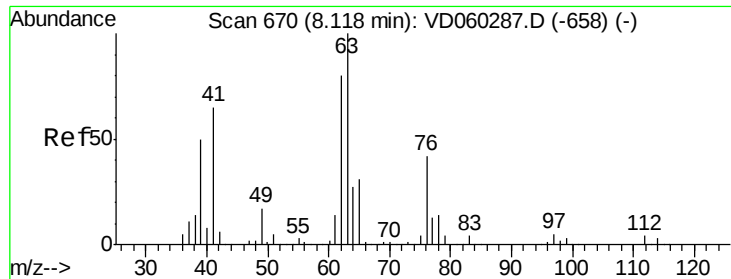
95 101.0 0.0 200.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 22.700 ug/l

RT: 8.11 min Scan# 670

Delta R.T. -0.00 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

Instrument :

MSVOA_D

ClientSampleId :

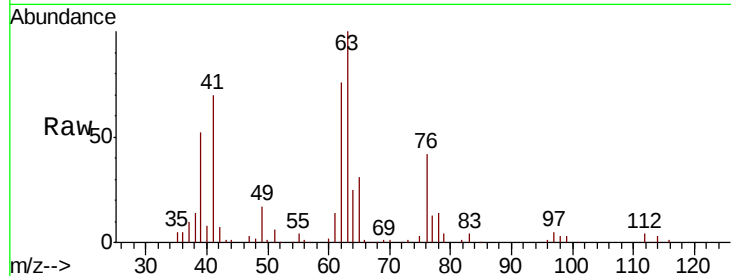
VD1120SBS01

Tot Ion: 63 Resp: 273181

Ion Ratio Lower Upper

63 100

65 31.0 23.4 35.2



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

8.11

120000

100000

80000

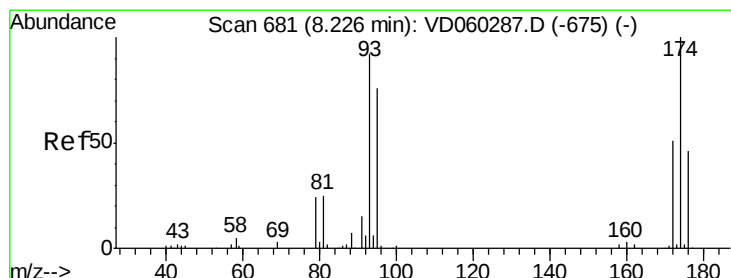
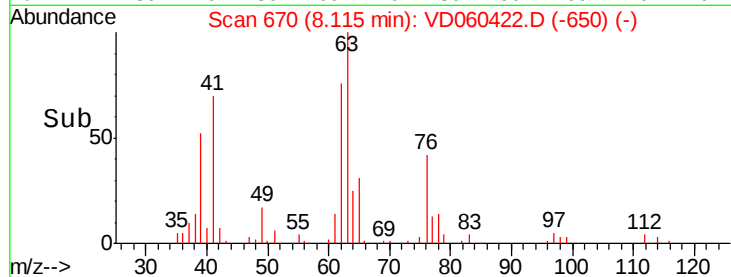
60000

40000

20000

0

Time-->



#46

Dibromomethane

Concen: 21.700 ug/l

RT: 8.22 min Scan# 681

Delta R.T. -0.00 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

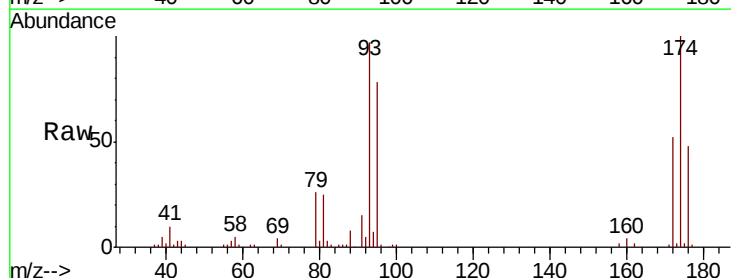
Tgt Ion: 93 Resp: 152946

Ion Ratio Lower Upper

93 100

95 79.9 66.4 99.6

174 102.7 87.8 131.8



Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

8.22

100000

80000

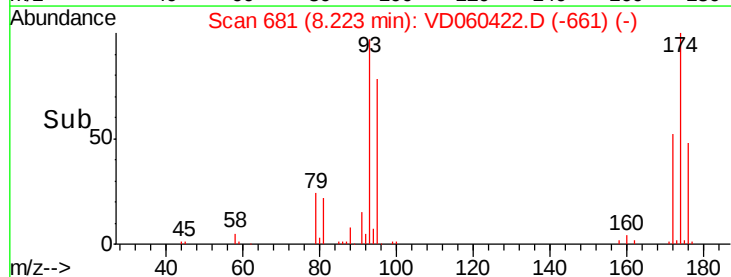
60000

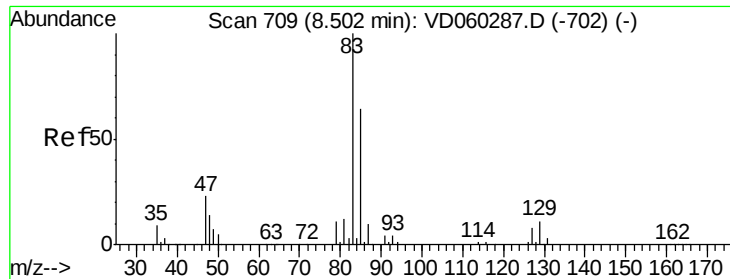
40000

20000

0

Time-->





#47

Bromodichloromethane

Concen: 22.523 ug/l

RT: 8.50 min Scan# 709

Delta R.T. -0.00 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

Instrument :

MSVOA_D

ClientSampleId :

VD1120SBS01

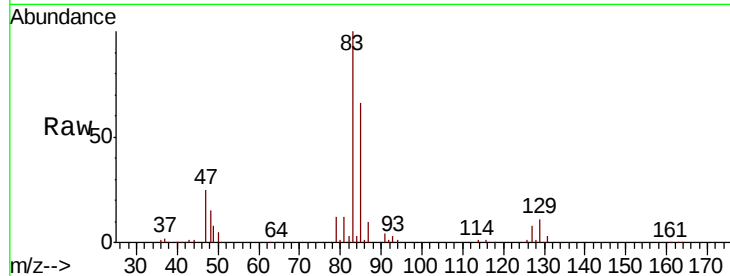
Tot Ion: 83 Resp: 374089

Ion Ratio Lower Upper

83 100

85 65.8 51.0 76.6

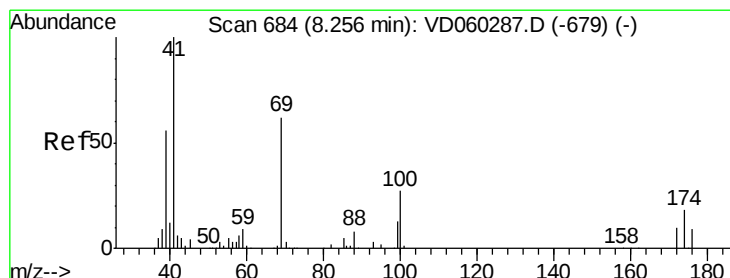
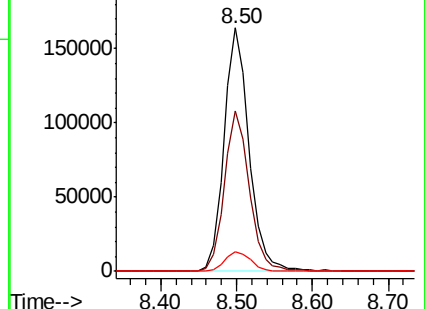
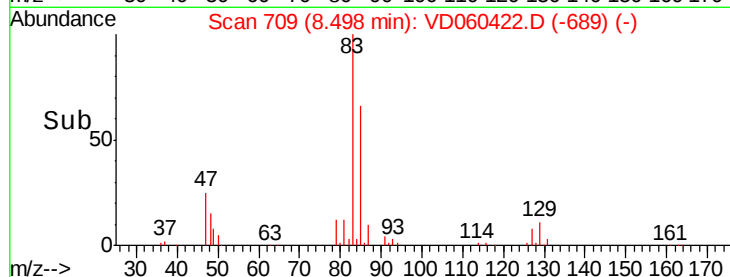
127 8.3 6.2 9.4



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: 21.564 ug/l

RT: 8.25 min Scan# 684

Delta R.T. -0.00 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

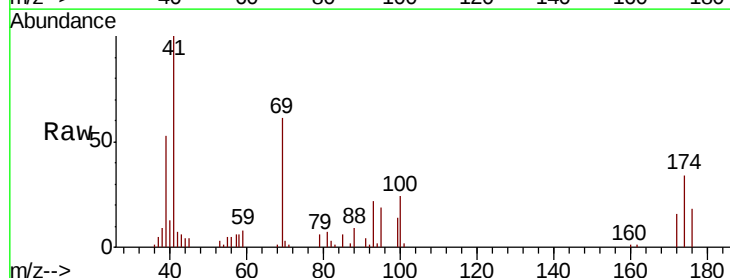
Tgt Ion: 41 Resp: 141530

Ion Ratio Lower Upper

41 100

69 60.6 47.0 70.4

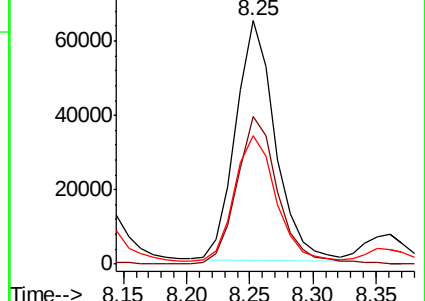
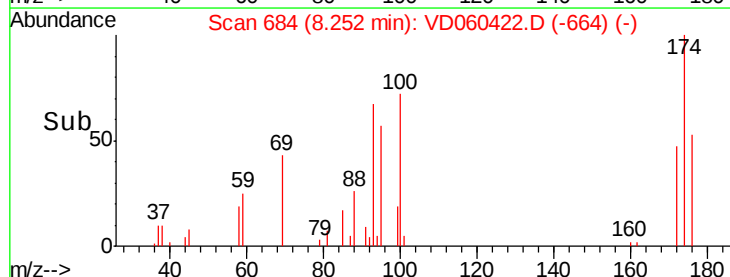
39 52.9 46.2 69.4

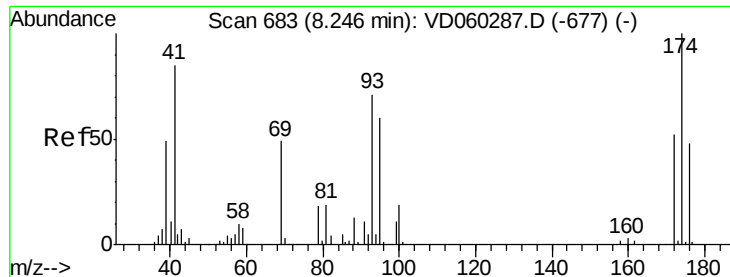


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 38.95 (38.65 to 39.65): VDC





#49

1,4-Dioxane

Concen: 456.596 ug/l

RT: 8.24 min Scan# 683

Delta R.T. -0.00 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

Instrument :

MSVOA_D

ClientSampleId :

VD1120SBS01

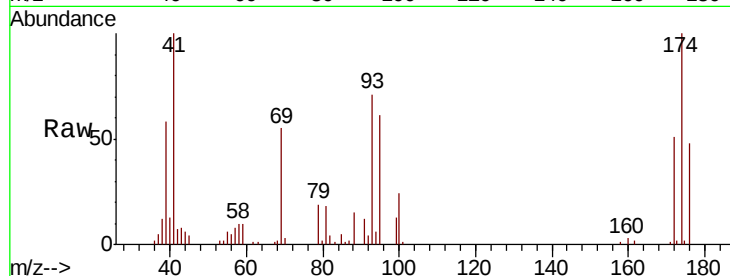
Tot Ion: 88 Resp: 25929

Ion Ratio Lower Upper

88 100

43 53.7 39.7 59.5

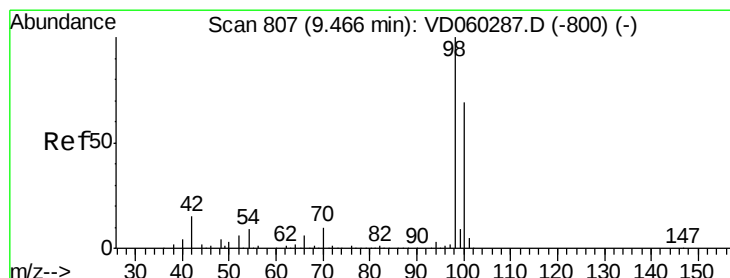
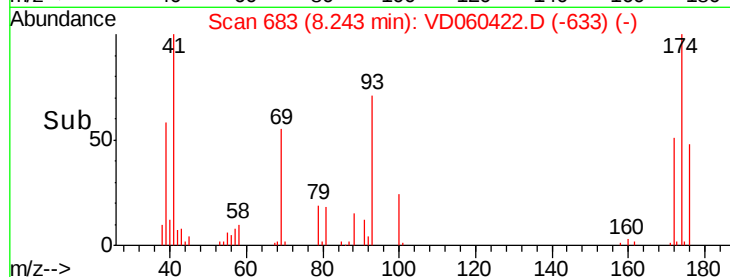
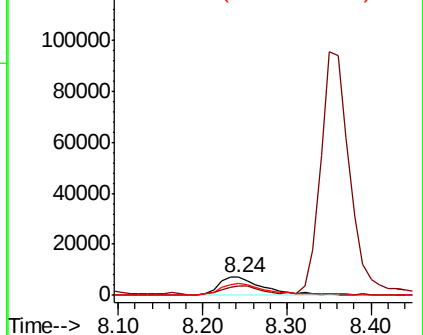
58 69.0 60.2 90.2



Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC



#50

Toluene-d8

Concen: 456.596 ug/l

RT: 9.46 min Scan# 807

Delta R.T. -0.00 min

Lab File: VD060422.D

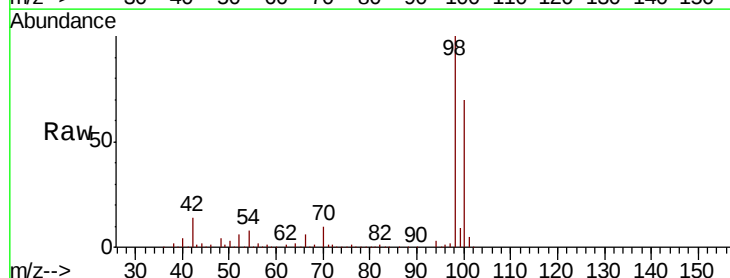
Acq: 20 Nov 2018 12:00

Tgt Ion: 98 Resp: 1982728

Ion Ratio Lower Upper

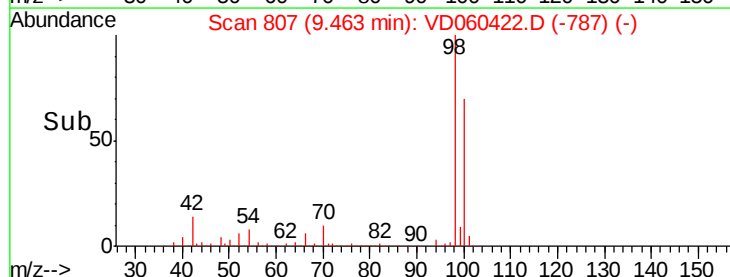
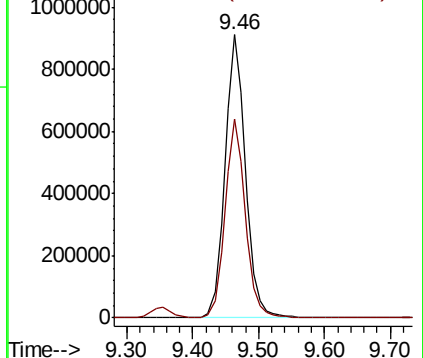
98 100

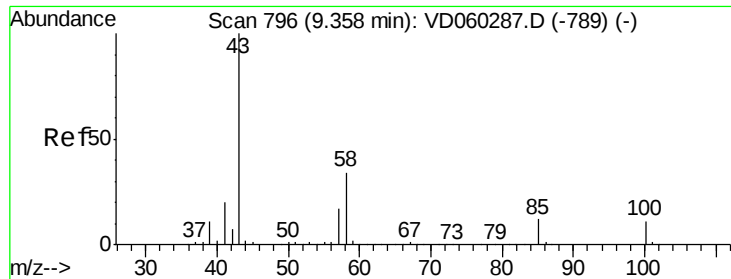
100 70.1 55.2 82.8



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: 108.541 ug/l

RT: 9.34 min Scan# 795

Delta R.T. -0.01 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

Instrument :

MSVOA_D

ClientSampleId :

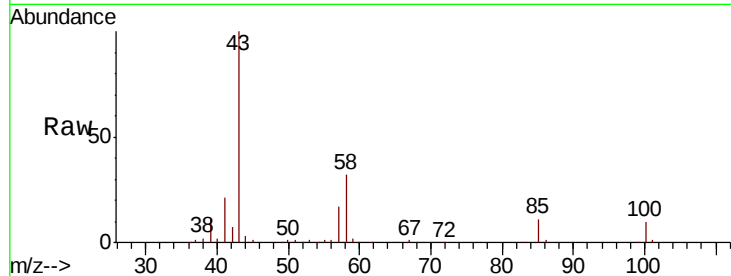
VD1120SBS01

Tot Ion: 43 Resp: 763336

Ion Ratio Lower Upper

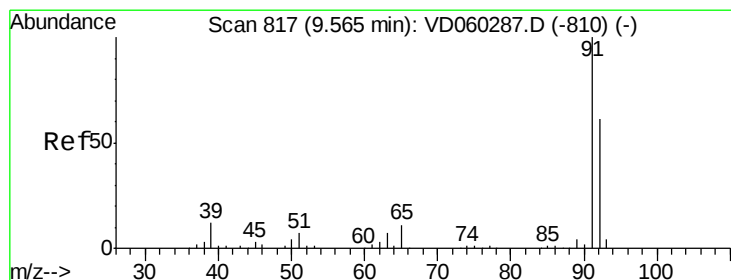
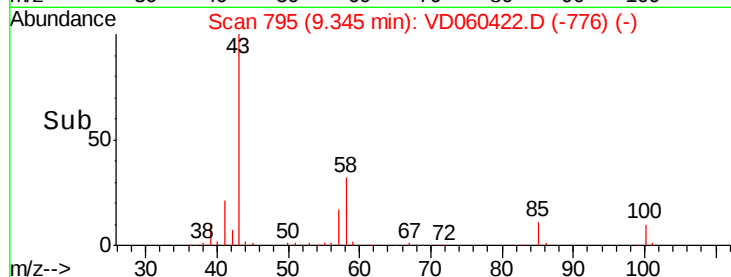
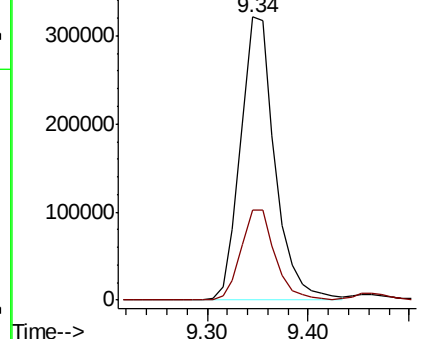
43 100

58 32.0 26.1 39.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 21.897 ug/l

RT: 9.56 min Scan# 817

Delta R.T. -0.00 min

Lab File: VD060422.D

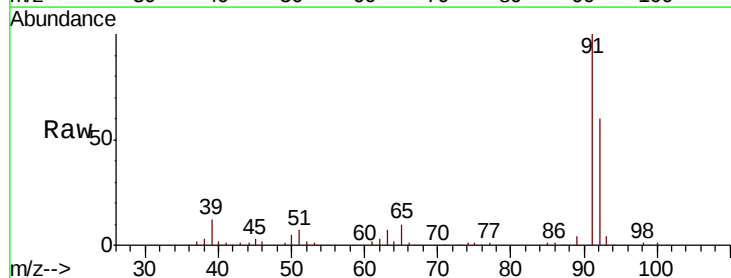
Acq: 20 Nov 2018 12:00

Tgt Ion: 92 Resp: 667437

Ion Ratio Lower Upper

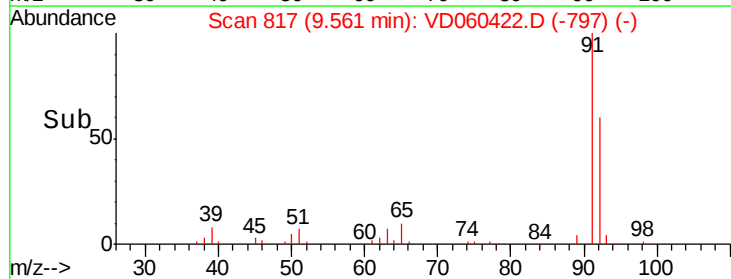
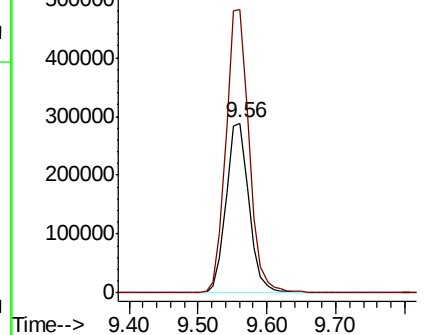
92 100

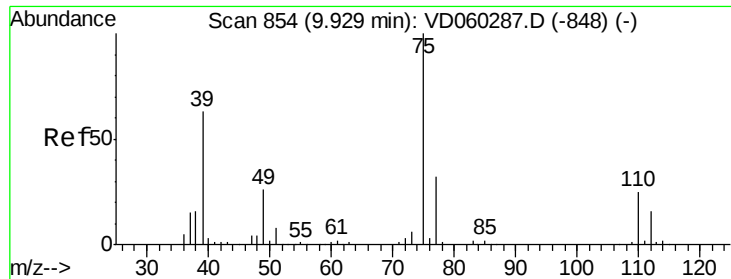
91 166.6 131.9 197.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

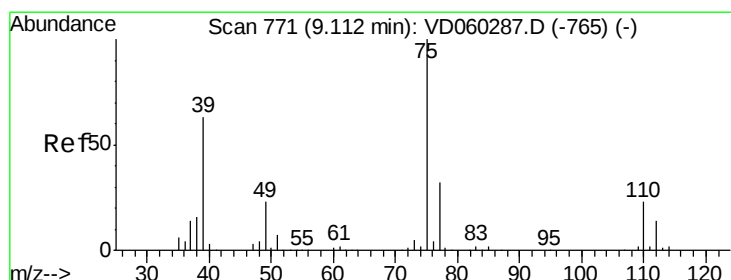
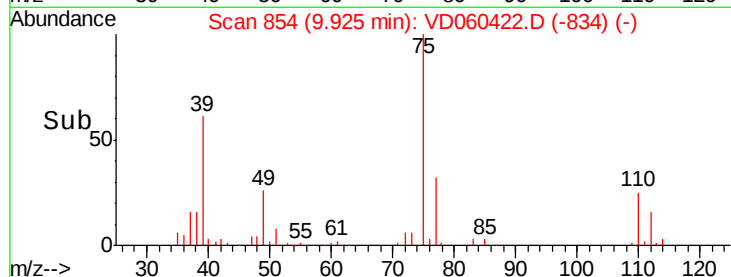
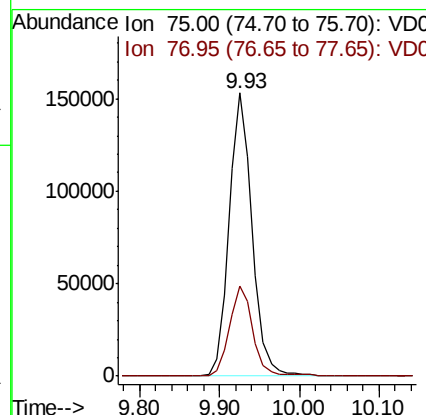
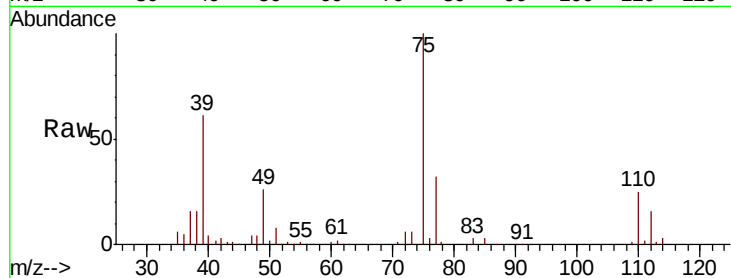




#53
t-1,3-Dichloropropene
Concen: 22.153 ug/l
RT: 9.93 min Scan# 854
Delta R.T. -0.00 min
Lab File: VD060422.D
Acq: 20 Nov 2018 12:00

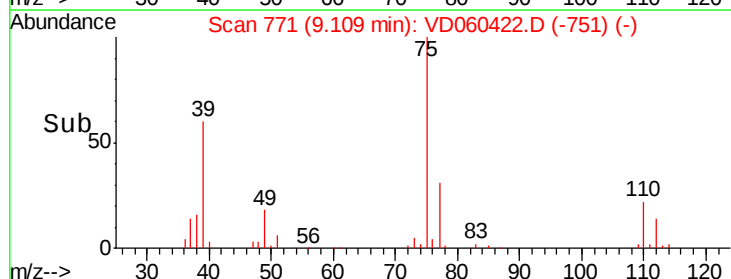
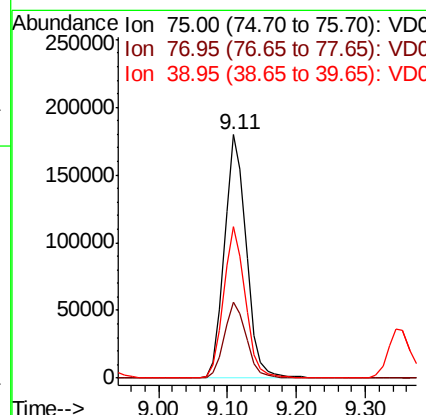
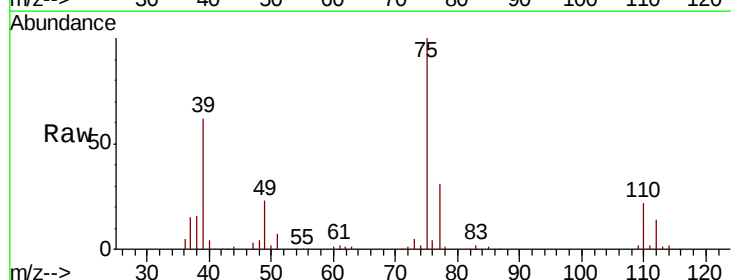
Instrument :
MSVOA_D
ClientSampleId :
VD1120SBS01

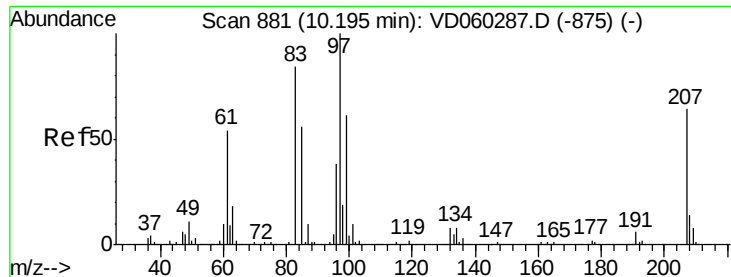
Tot Ion: 75 Resp: 310880
Ion Ratio Lower Upper
75 100
77 31.7 25.2 37.8



#54
cis-1,3-Dichloropropene
Concen: 21.952 ug/l
RT: 9.11 min Scan# 771
Delta R.T. -0.00 min
Lab File: VD060422.D
Acq: 20 Nov 2018 12:00

Tgt Ion: 75 Resp: 395117
Ion Ratio Lower Upper
75 100
77 31.2 26.3 39.5
39 62.3 50.8 76.2





#55

1,1,2-Trichloroethane

Concen: 21.017 ug/l

RT: 10.19 min Scan# 881

Delta R.T. -0.00 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

Instrument :

MSVOA_D

ClientSampleId :

VD1120SBS01

Tot Ion: 97 Resp: 185679

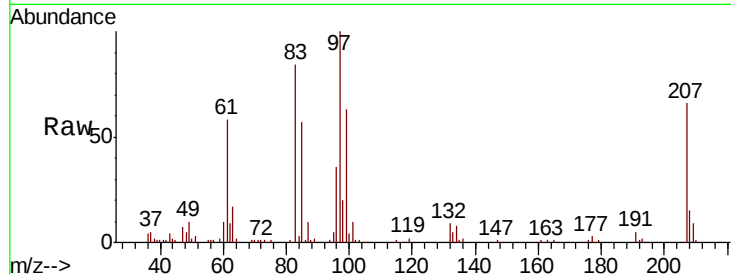
Ion Ratio Lower Upper

97 100

83 83.8 68.4 102.6

85 57.0 46.8 70.2

99 63.5 49.5 74.3

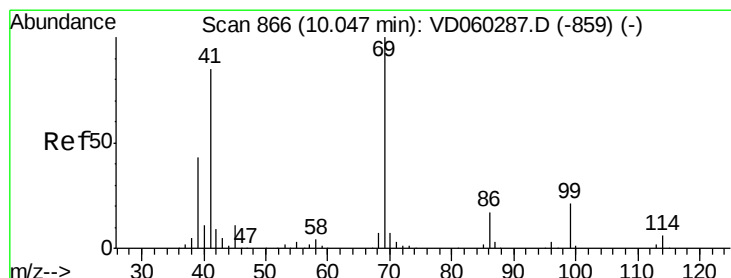
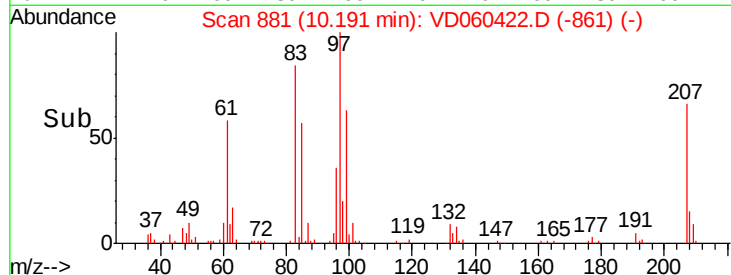
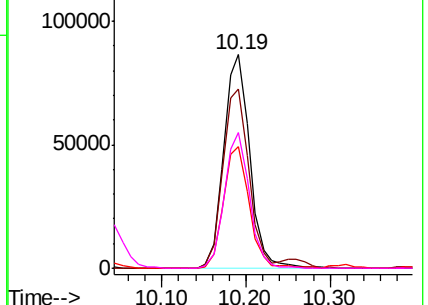


Abundance Ion 96.85 (96.55 to 97.55): VDC

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: 21.379 ug/l

RT: 10.03 min Scan# 865

Delta R.T. -0.01 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

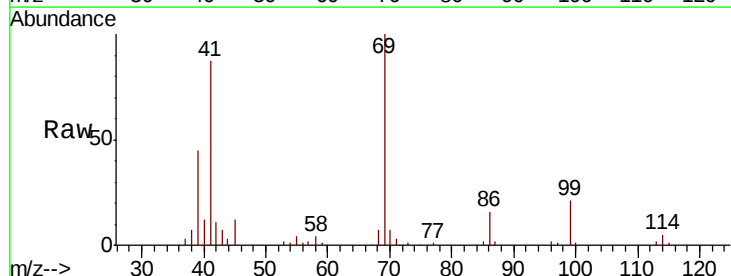
Tgt Ion: 69 Resp: 173658

Ion Ratio Lower Upper

69 100

41 87.5 69.0 103.4

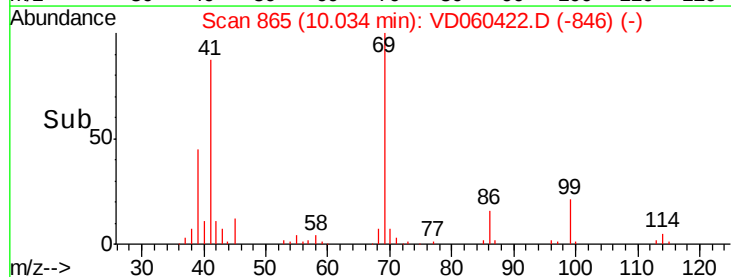
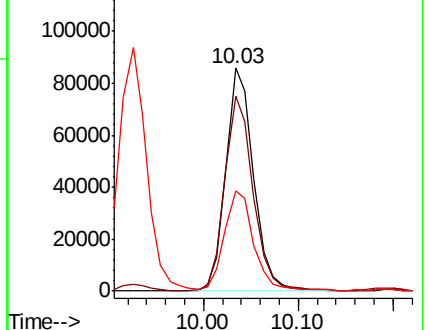
39 45.2 36.6 54.8

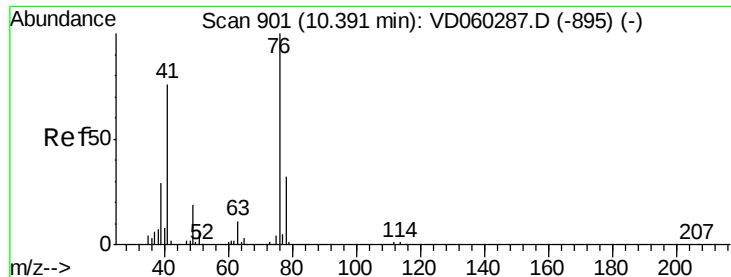


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 21.544 ug/l

RT: 10.39 min Scan# 901

Delta R.T. -0.00 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

Instrument :

MSVOA_D

ClientSampleId :

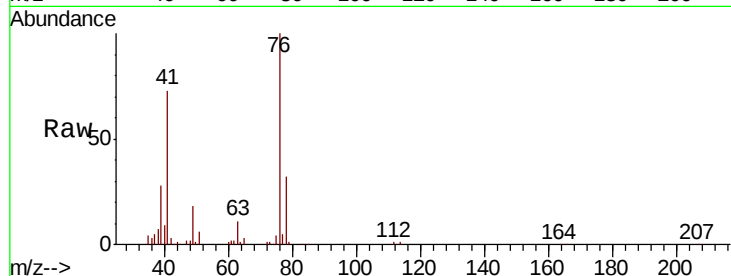
VD1120SBS01

Tot Ion: 76 Resp: 290024

Ion Ratio Lower Upper

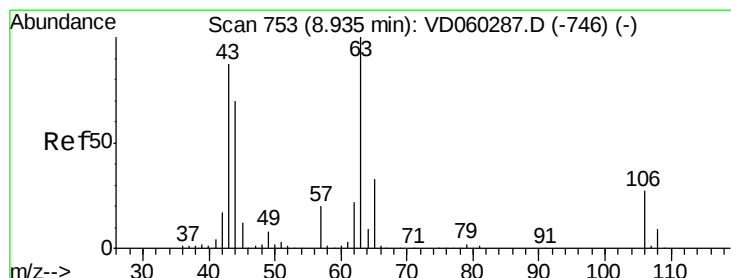
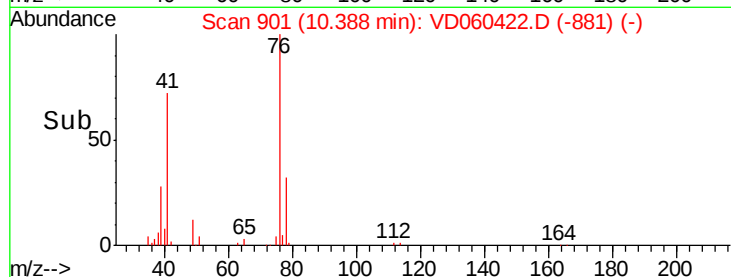
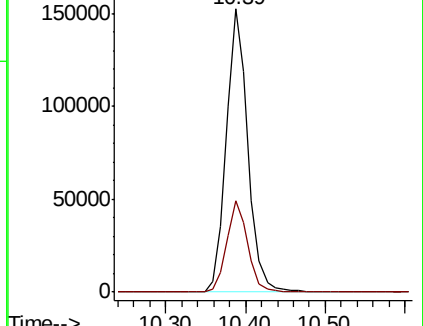
76 100

78 32.2 25.9 38.9



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: 116.035 ug/l

RT: 8.93 min Scan# 753

Delta R.T. -0.00 min

Lab File: VD060422.D

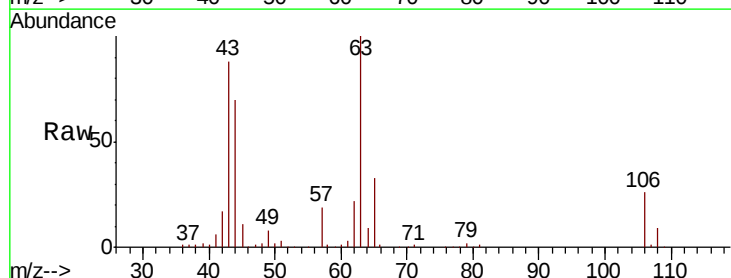
Acq: 20 Nov 2018 12:00

Tgt Ion: 63 Resp: 569905

Ion Ratio Lower Upper

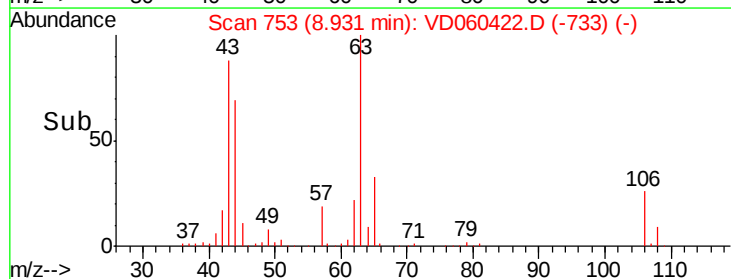
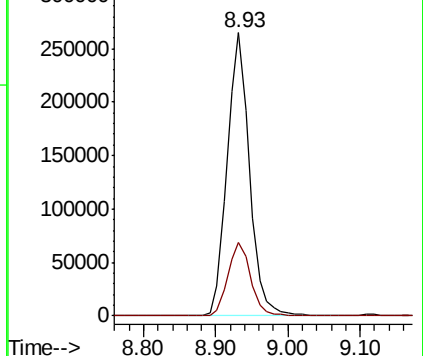
63 100

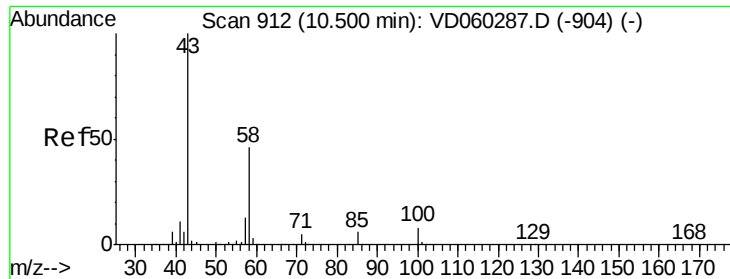
106 26.2 21.5 32.3



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

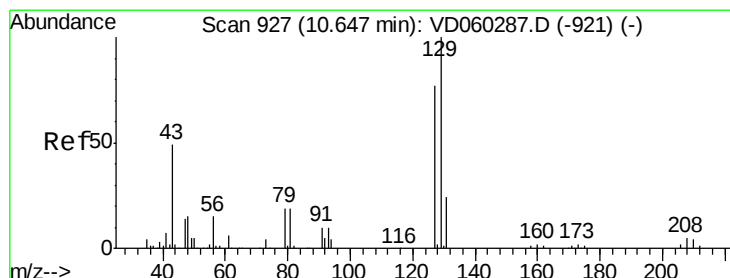
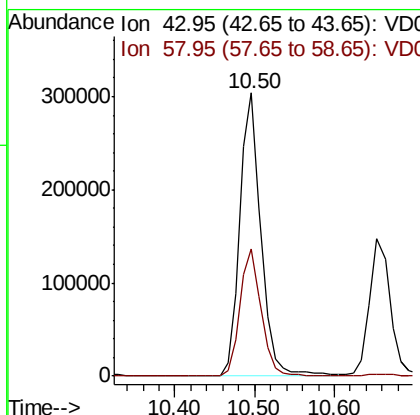
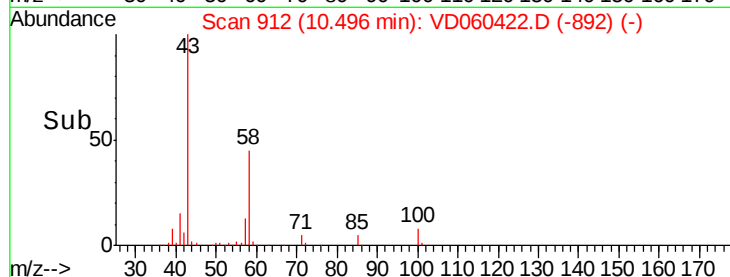
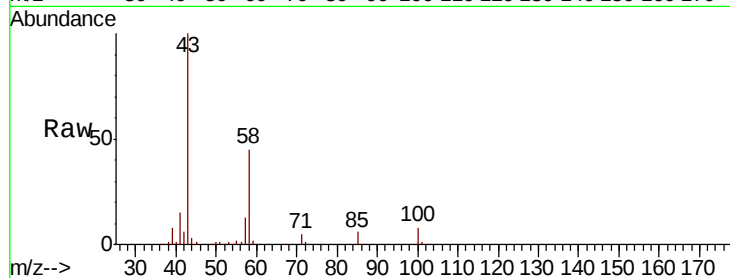




#59
2-Hexanone
Concen: 112.253 ug/l
RT: 10.50 min Scan# 912
Delta R.T. -0.00 min
Lab File: VD060422.D
Acq: 20 Nov 2018 12:00

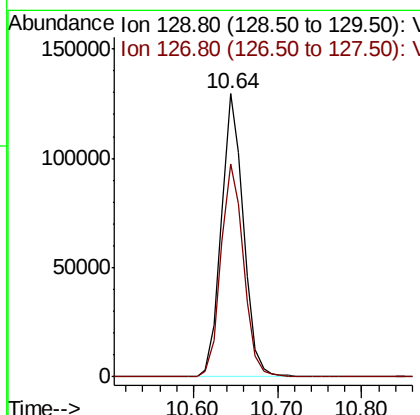
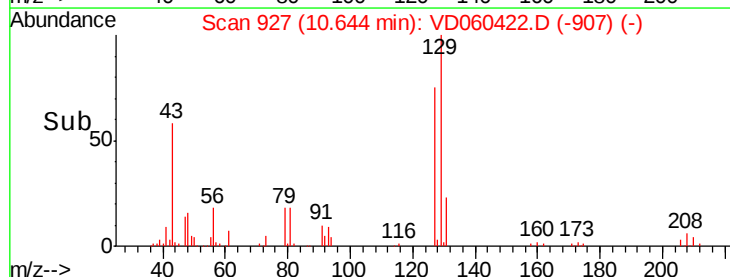
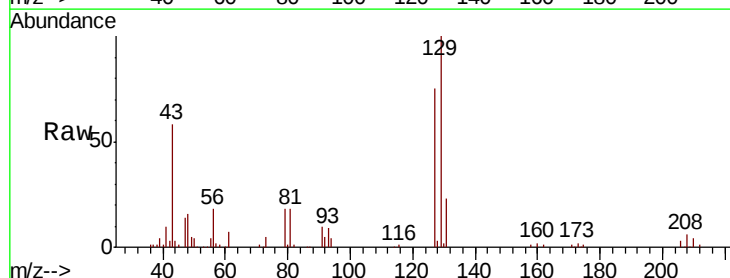
Instrument :
MSVOA_D
ClientSampleId :
VD1120SBS01

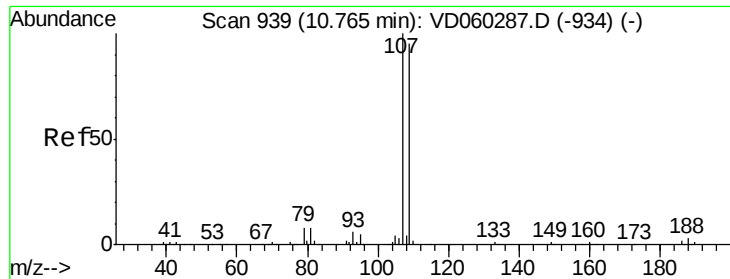
Tot Ion: 43 Resp: 562661
Ion Ratio Lower Upper
43 100
58 45.0 22.9 68.5



#60
Dibromochloromethane
Concen: 22.025 ug/l
RT: 10.64 min Scan# 927
Delta R.T. -0.00 min
Lab File: VD060422.D
Acq: 20 Nov 2018 12:00

Tgt Ion: 129 Resp: 236529
Ion Ratio Lower Upper
129 100
127 75.1 38.9 116.6

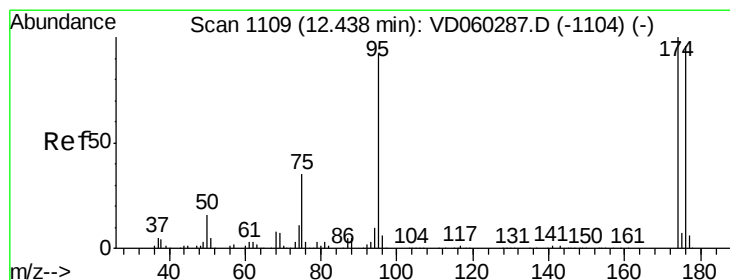
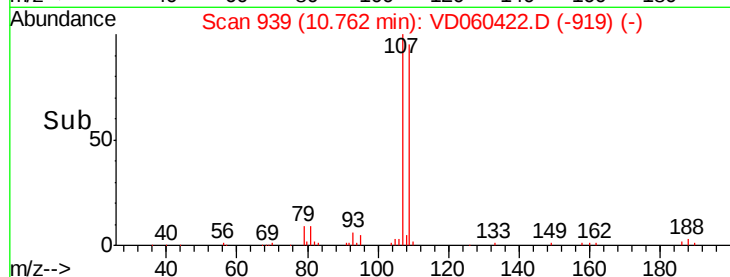
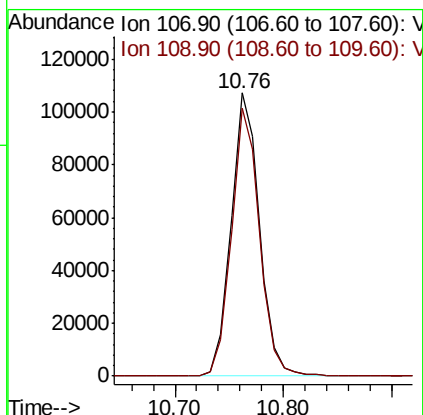
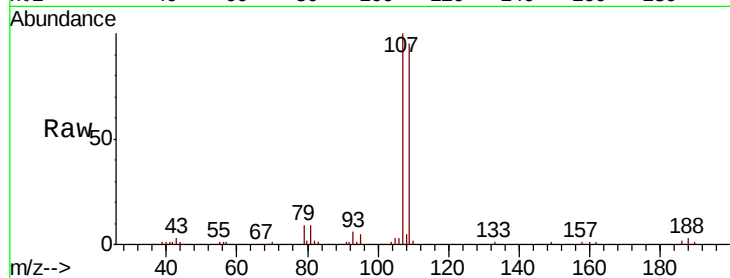




#61
 1,2-Dibromoethane
 Concen: 21.970 ug/l
 RT: 10.76 min Scan# 939
 Delta R.T. -0.00 min
 Lab File: VD060422.D
 Acq: 20 Nov 2018 12:00

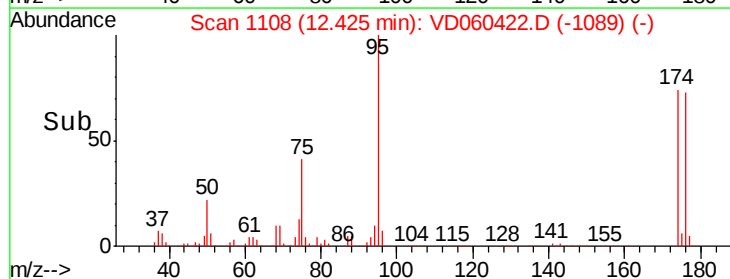
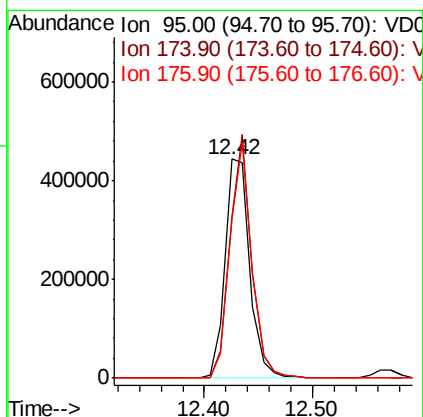
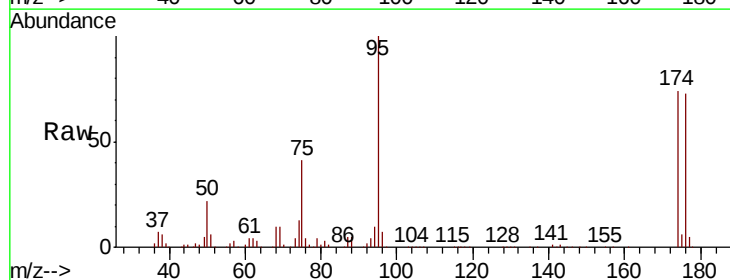
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1120SBS01

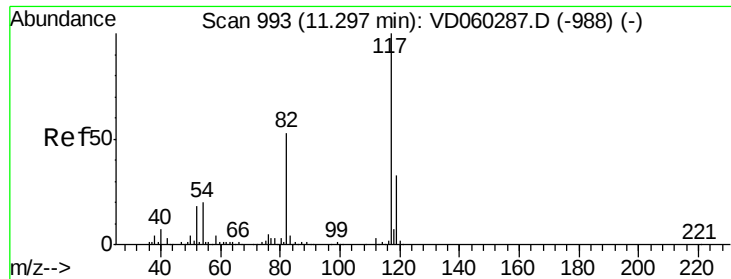
Tot Ion: 107 Resp: 194468
 Ion Ratio Lower Upper
 107 100
 109 94.6 75.7 113.5



#62
 4-Bromofluorobenzene
 Concen: 21.970 ug/l
 RT: 12.42 min Scan# 1108
 Delta R.T. -0.01 min
 Lab File: VD060422.D
 Acq: 20 Nov 2018 12:00

Tgt Ion: 95 Resp: 702950
 Ion Ratio Lower Upper
 95 100
 174 74.2 0.0 160.8
 176 72.9 0.0 154.6

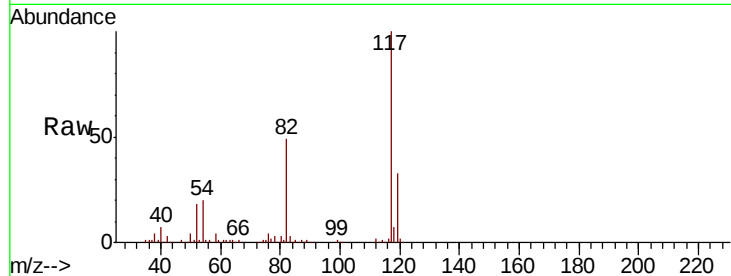




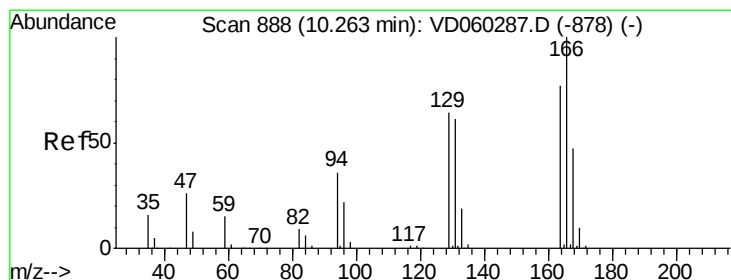
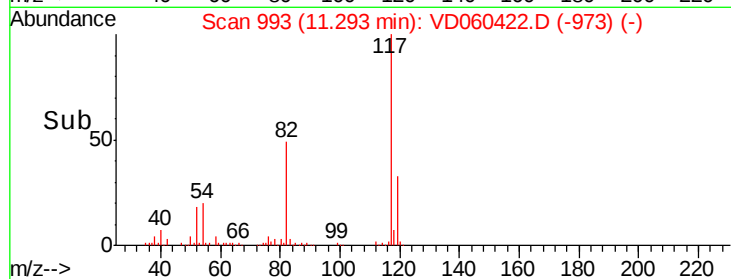
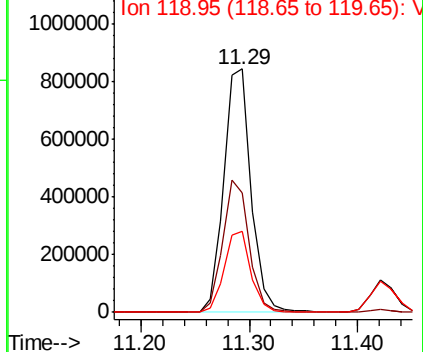
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.29 min Scan# 993
Delta R.T. -0.00 min
Lab File: VD060422.D
Acq: 20 Nov 2018 12:00

Instrument :
MSVOA_D
ClientSampleId :
VD1120SBS01

Tot Ion:117 Resp: 1481379
Ion Ratio Lower Upper
117 100
82 49.1 43.7 65.5
119 33.3 26.1 39.1

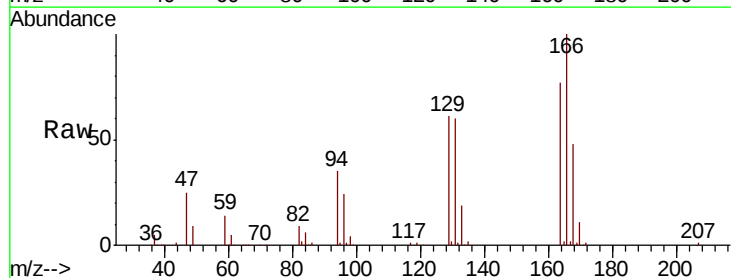


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

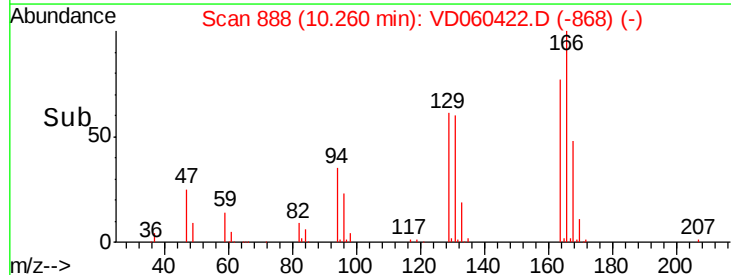
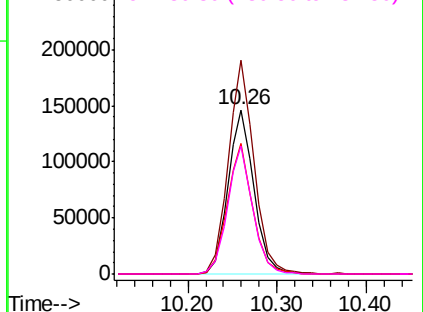


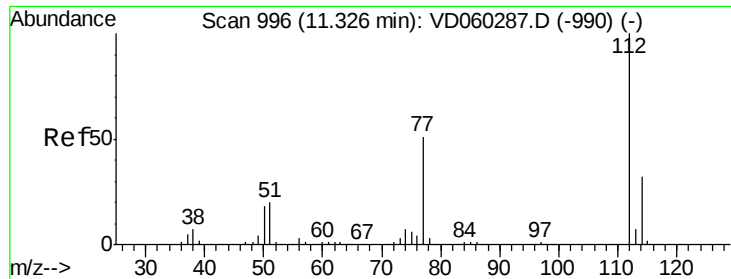
#64
Tetrachloroethene
Concen: 22.516 ug/l
RT: 10.26 min Scan# 888
Delta R.T. -0.00 min
Lab File: VD060422.D
Acq: 20 Nov 2018 12:00

Tgt Ion:164 Resp: 297772
Ion Ratio Lower Upper
164 100
166 130.0 103.7 155.5
129 79.4 65.6 98.4
131 78.0 64.4 96.6



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

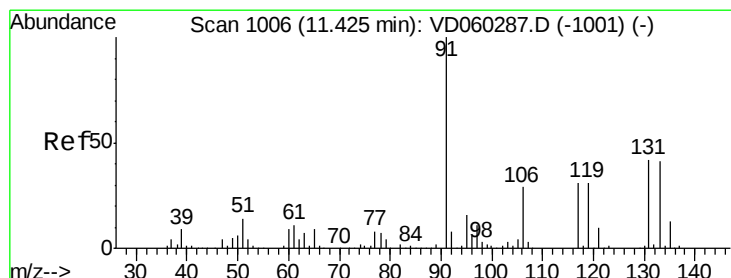
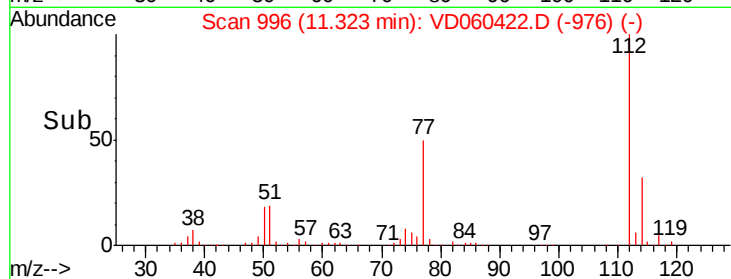
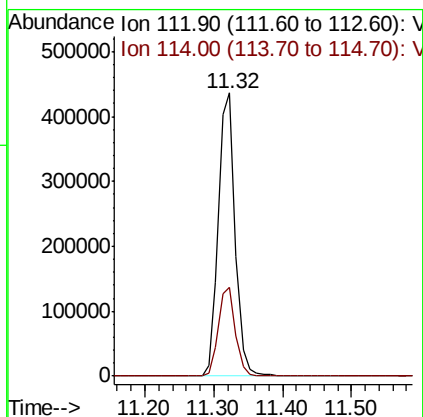
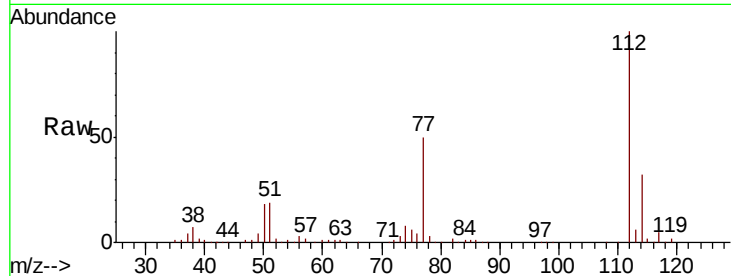




#65
Chlorobenzene
Concen: 23.047 ug/l
RT: 11.32 min Scan# 996
Delta R.T. -0.00 min
Lab File: VD060422.D
Acq: 20 Nov 2018 12:00

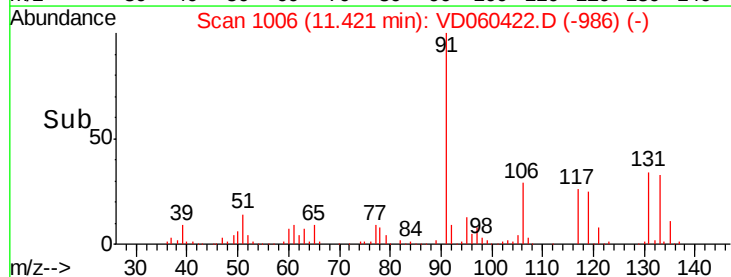
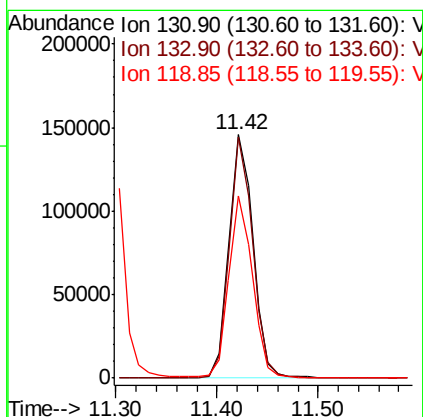
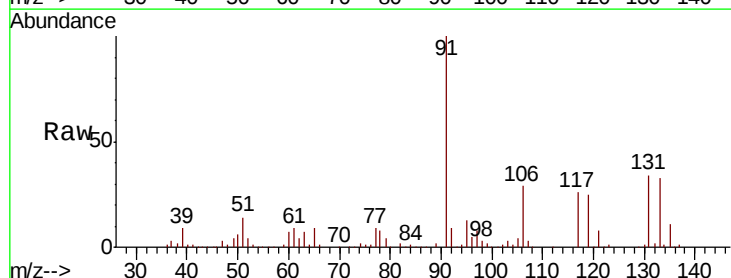
Instrument :
MSVOA_D
ClientSampleId :
VD1120SBS01

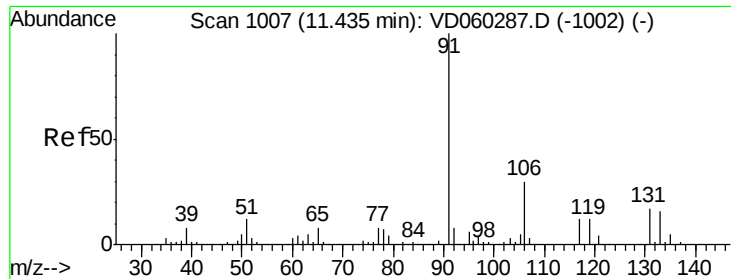
Tot Ion:112 Resp: 739742
Ion Ratio Lower Upper
112 100
114 31.6 25.8 38.8



#66
1,1,1,2-Tetrachloroethane
Concen: 22.957 ug/l
RT: 11.42 min Scan# 1006
Delta R.T. -0.00 min
Lab File: VD060422.D
Acq: 20 Nov 2018 12:00

Tgt Ion:131 Resp: 241090
Ion Ratio Lower Upper
131 100
133 99.2 50.0 150.0
119 74.7 37.0 111.1





#67

Ethyl Benzene

Concen: 23.205 ug/l

RT: 11.43 min Scan# 1007

Delta R.T. -0.00 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

Instrument :

MSVOA_D

ClientSampleId :

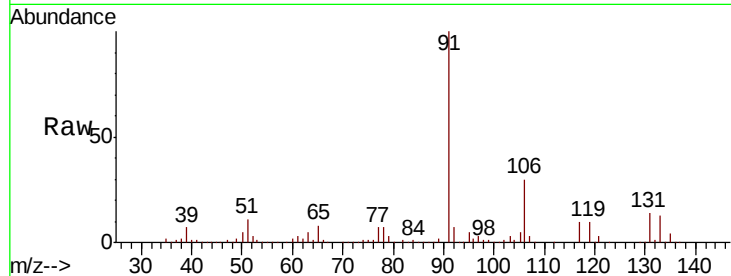
VD1120SBS01

Tot Ion: 91 Resp: 1274119

Ion Ratio Lower Upper

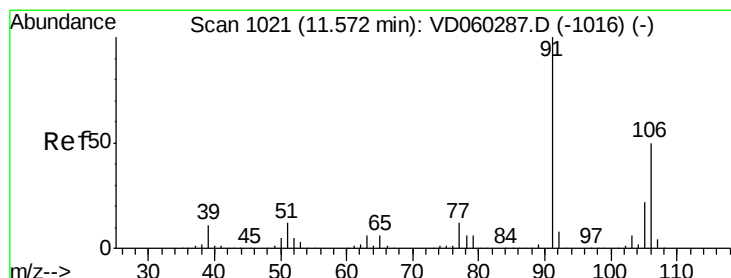
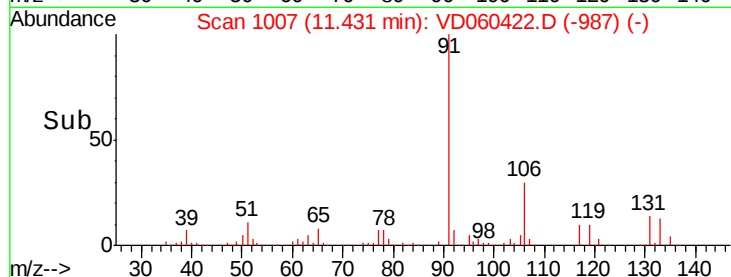
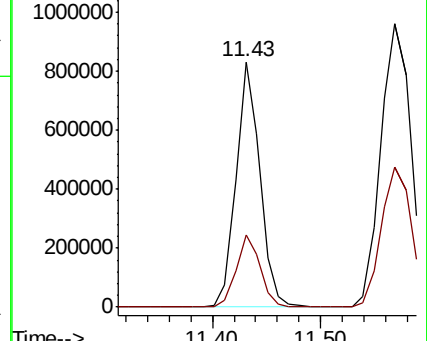
91 100

106 29.5 24.6 36.8



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 106.05 (105.75 to 106.75): V



#68

m/p-Xylenes

Concen: 45.531 ug/l

RT: 11.57 min Scan# 1021

Delta R.T. -0.00 min

Lab File: VD060422.D

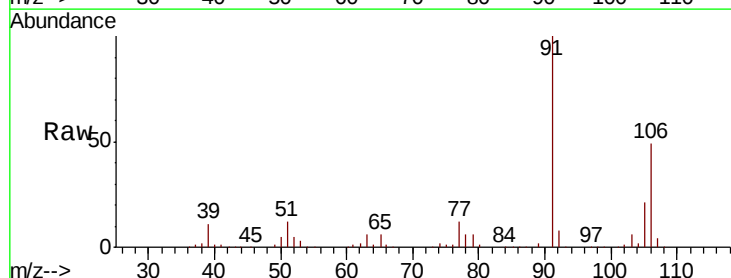
Acq: 20 Nov 2018 12:00

Tgt Ion: 106 Resp: 922191

Ion Ratio Lower Upper

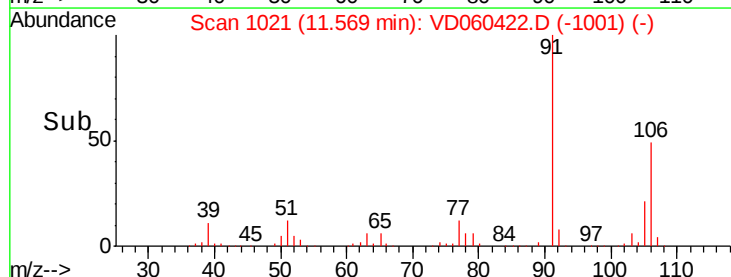
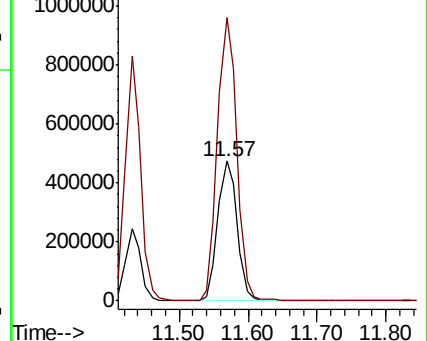
106 100

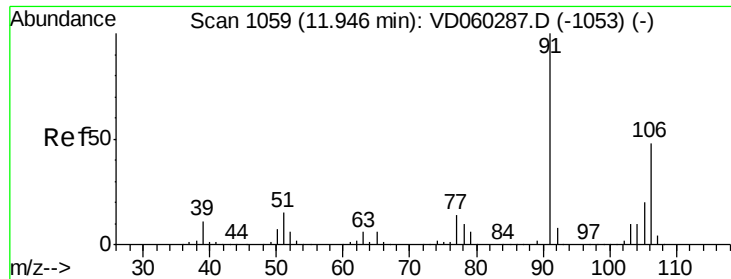
91 202.5 159.4 239.2



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): VDC

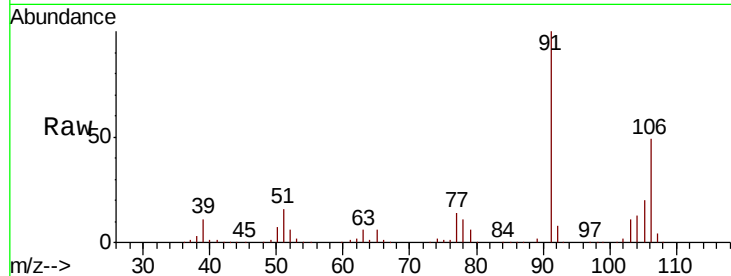




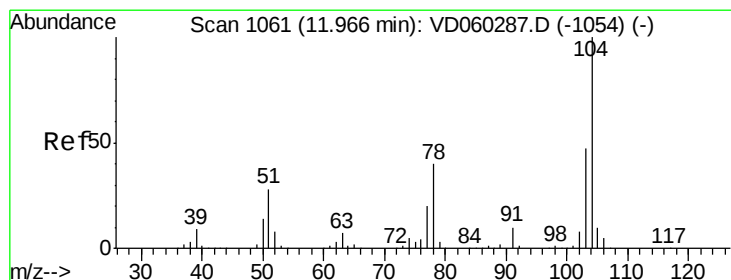
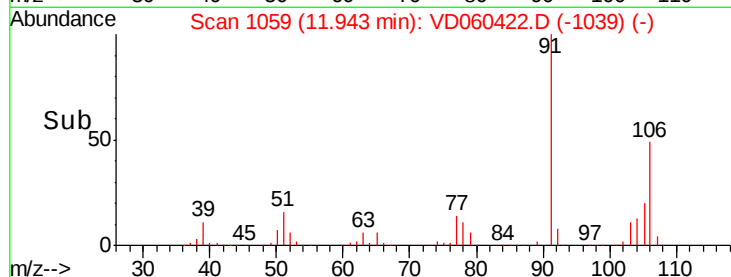
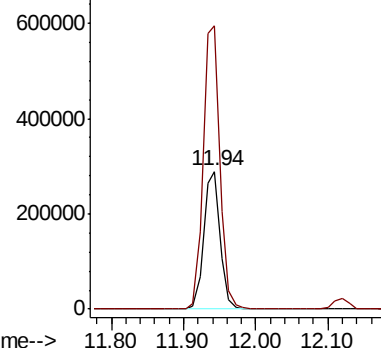
#69
o-Xylene
Concen: 23.006 ug/l
RT: 11.94 min Scan# 1059
Delta R.T. -0.00 min
Lab File: VD060422.D
Acq: 20 Nov 2018 12:00

Instrument :
MSVOA_D
ClientSampleId :
VD1120SBS01

Tot Ion:106 Resp: 450164
Ion Ratio Lower Upper
106 100
91 205.4 109.2 327.6

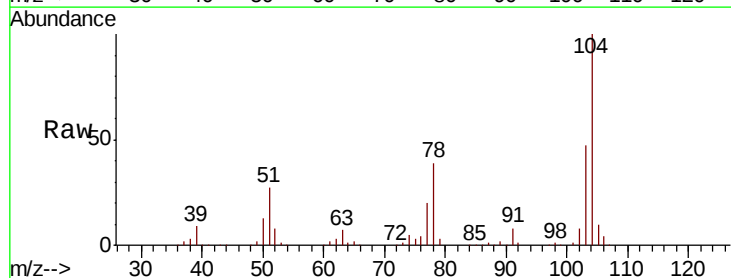


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

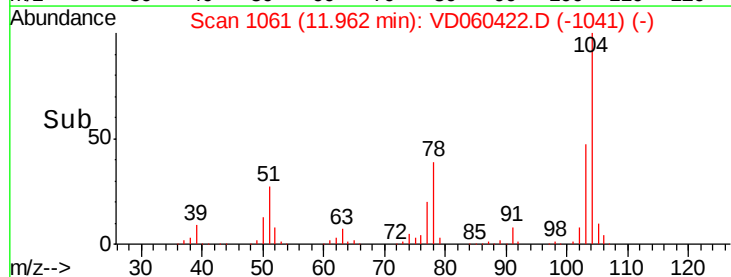
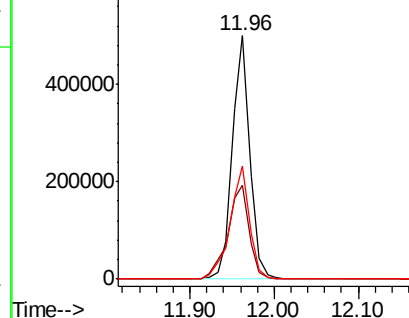


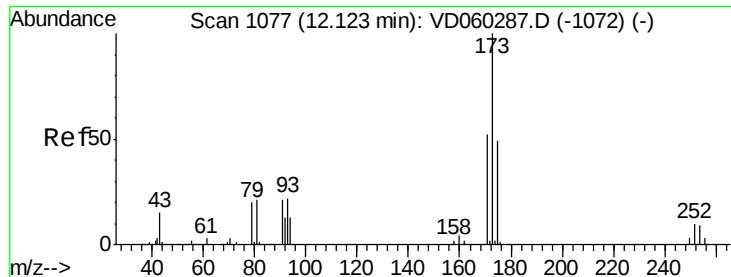
#70
Styrene
Concen: 22.711 ug/l
RT: 11.96 min Scan# 1061
Delta R.T. -0.00 min
Lab File: VD060422.D
Acq: 20 Nov 2018 12:00

Tgt Ion:104 Resp: 718201
Ion Ratio Lower Upper
104 100
78 38.8 31.6 47.4
103 46.6 37.0 55.6



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: 22.212 ug/l

RT: 12.12 min Scan# 1077

Delta R.T. -0.00 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

Instrument :

MSVOA_D

ClientSampleId :

VD1120SBS01

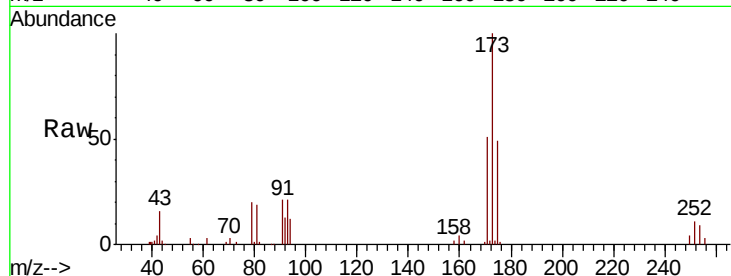
Tot Ion:173 Resp: 156750

Ion Ratio Lower Upper

173 100

175 48.9 24.3 73.0

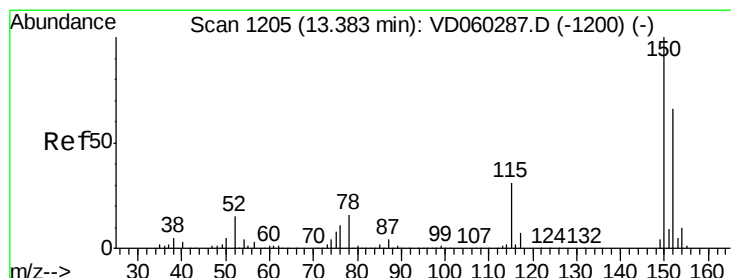
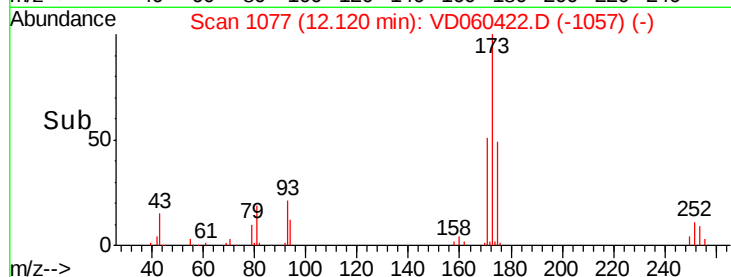
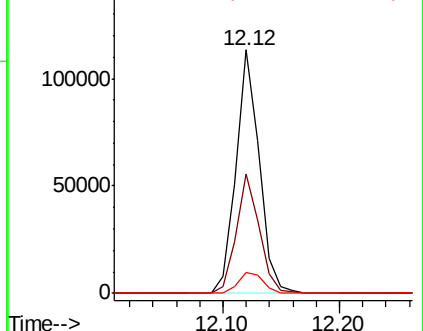
254 8.5 8.3 12.5



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: 13.38 min Scan# 1205

Delta R.T. -0.00 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

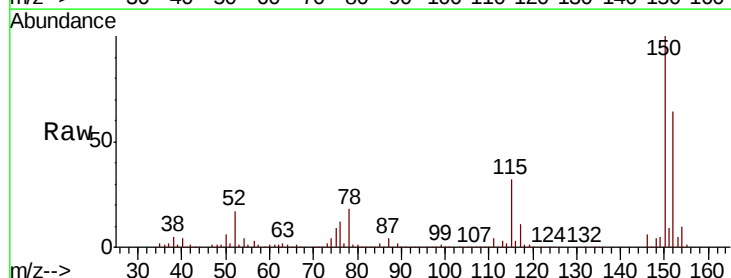
Tgt Ion:152 Resp: 739420

Ion Ratio Lower Upper

152 100

115 49.7 24.1 72.3

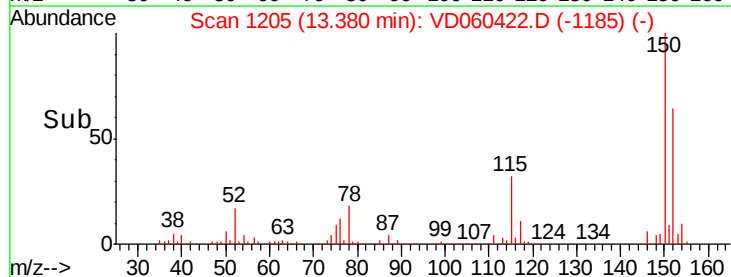
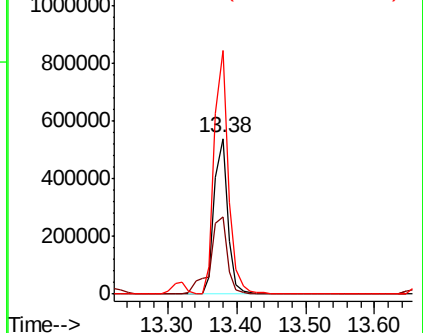
150 156.3 0.0 310.6

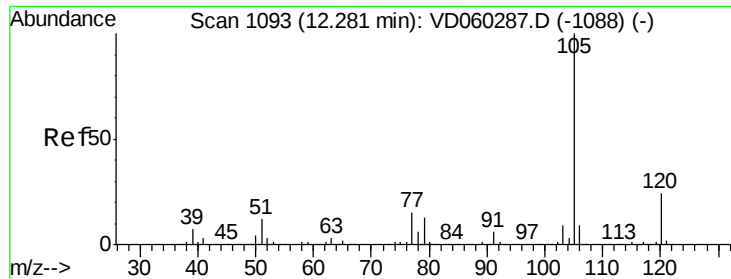


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 23.065 ug/l

RT: 12.28 min Scan# 1093

Delta R.T. -0.00 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

Instrument :

MSVOA_D

ClientSampleId :

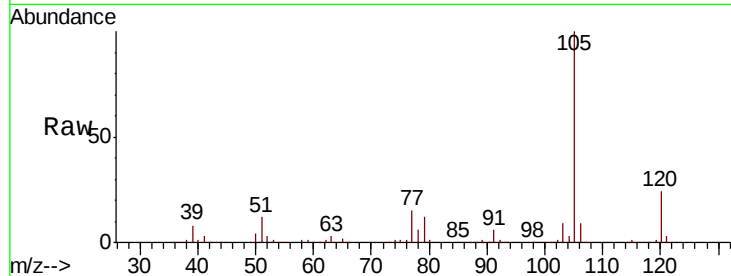
VD1120SBS01

Tot Ion:105 Resp: 1242567

Ion Ratio Lower Upper

105 100

120 23.8 12.1 36.3



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

800000

600000

400000

200000

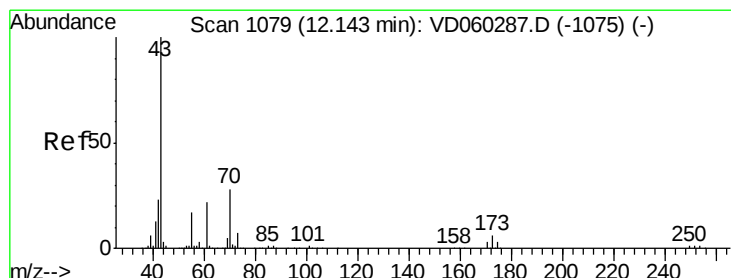
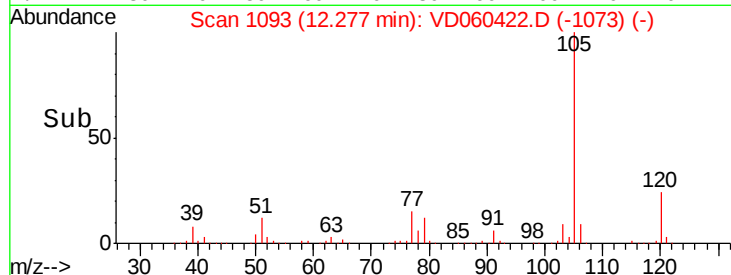
0

12.28

12.30

12.40

Time-->



#74

N-ethyl acetate

Concen: 21.921 ug/l

RT: 12.14 min Scan# 1079

Delta R.T. -0.00 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

Tgt Ion: 43 Resp: 302770

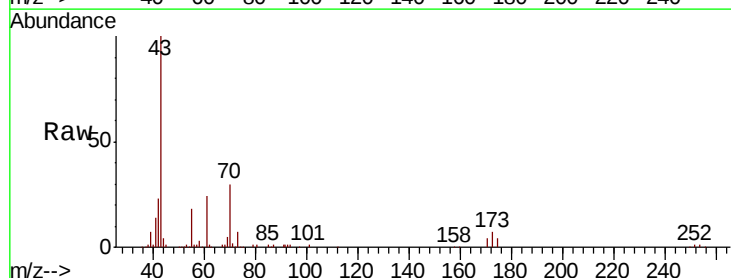
Ion Ratio Lower Upper

43 100

70 29.9 23.0 34.4

55 18.3 14.2 21.4

61 24.0 17.8 26.8



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

300000

200000

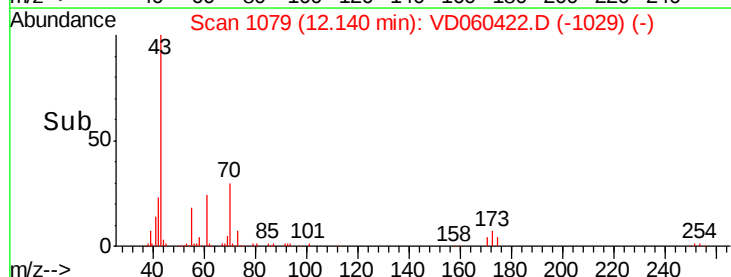
100000

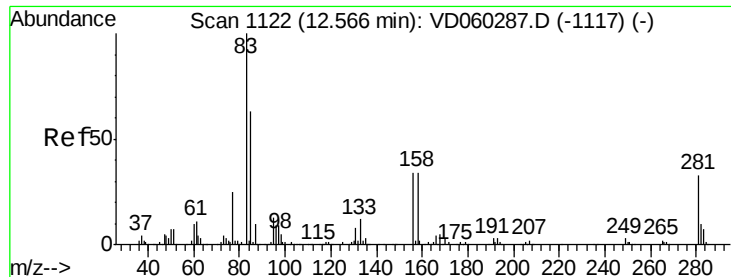
0

12.14

12.20

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 21.882 ug/l

RT: 12.56 min Scan# 1122

Delta R.T. -0.00 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

Instrument :

MSVOA_D

ClientSampleId :

VD1120SBS01

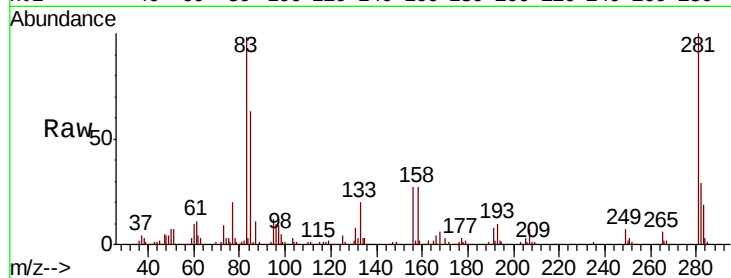
Tot Ion: 83 Resp: 192788

Ion Ratio Lower Upper

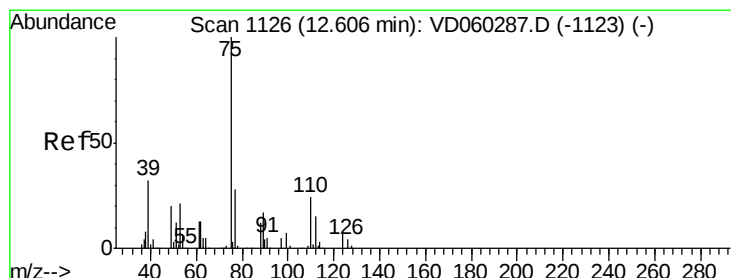
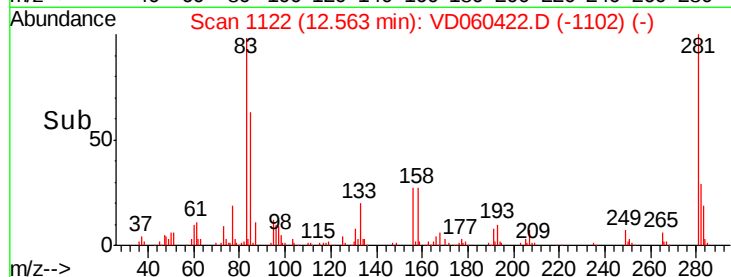
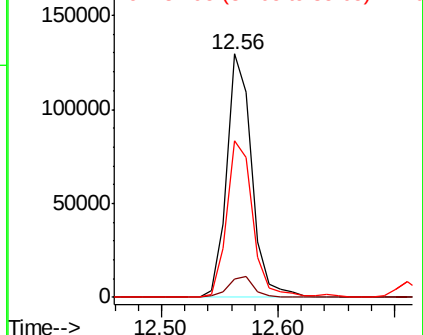
83 100

131 7.7 3.9 11.5

85 64.1 32.0 96.0



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: 22.371 ug/l

RT: 12.60 min Scan# 1126

Delta R.T. -0.00 min

Lab File: VD060422.D

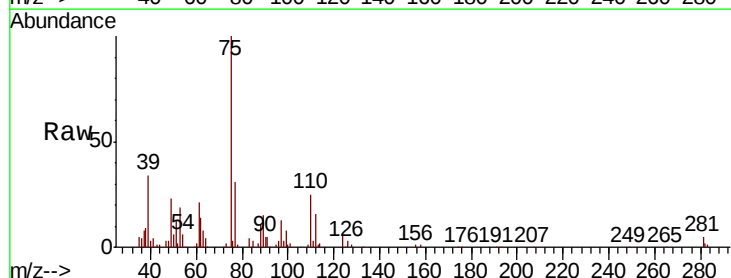
Acq: 20 Nov 2018 12:00

Tgt Ion: 75 Resp: 197872

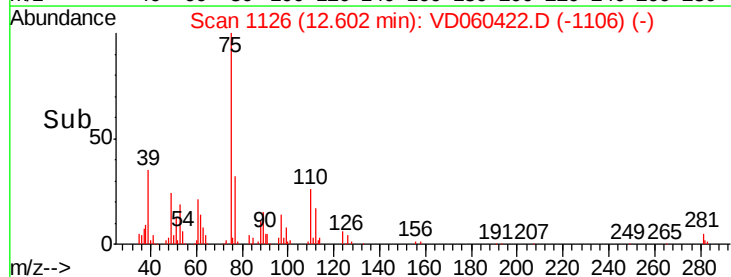
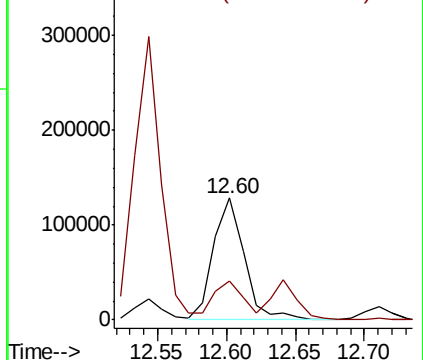
Ion Ratio Lower Upper

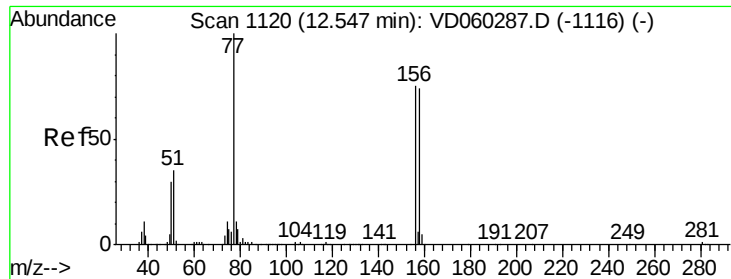
75 100

77 31.5 16.4 49.1



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





#77

Bromobenzene

Concen: 21.946 ug/l

RT: 12.54 min Scan# 1120

Delta R.T. -0.00 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

Instrument :

MSVOA_D

ClientSampleId :

VD1120SBS01

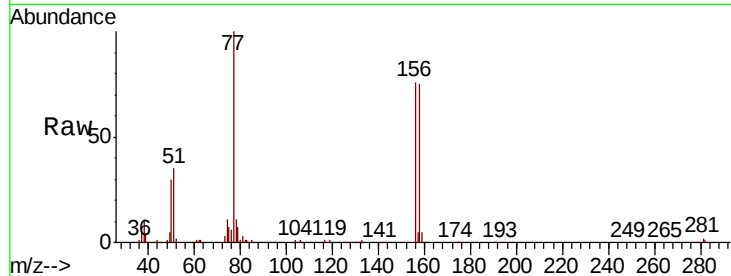
Tot Ion:156 Resp: 314040

Ion Ratio Lower Upper

156 100

77 131.3 61.2 183.6

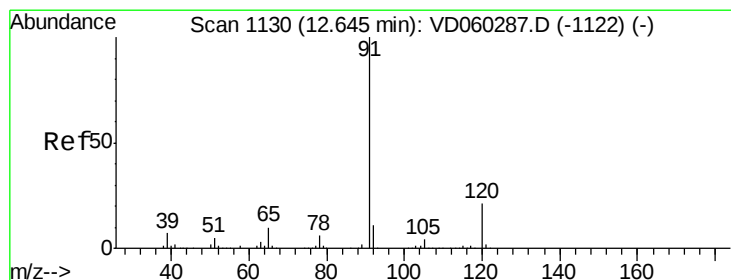
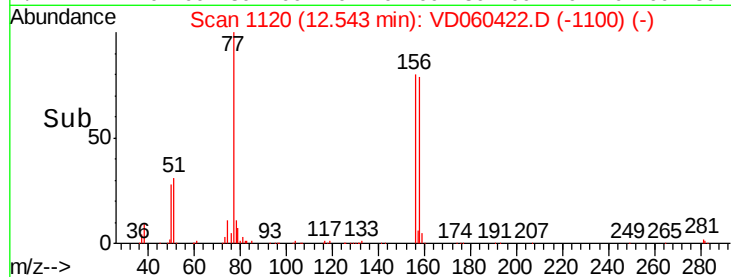
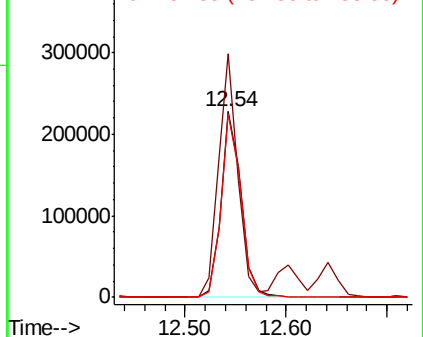
158 98.7 49.2 147.6



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: 23.165 ug/l

RT: 12.64 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VD060422.D

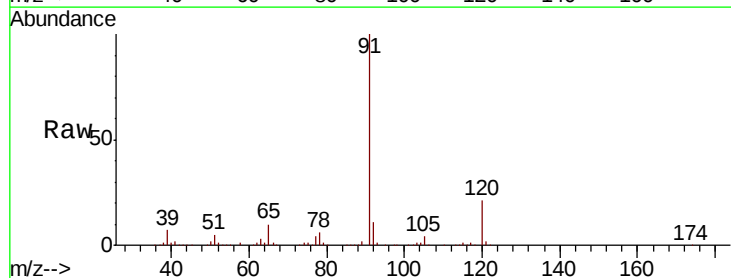
Acq: 20 Nov 2018 12:00

Tgt Ion: 91 Resp: 1557660

Ion Ratio Lower Upper

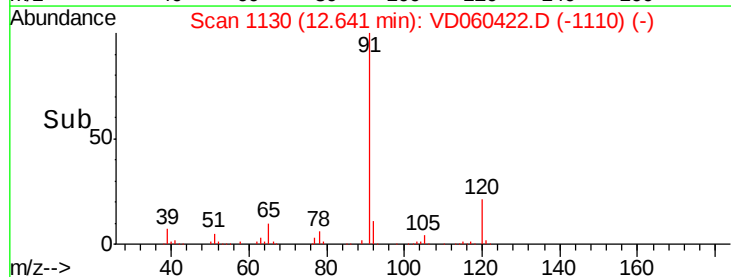
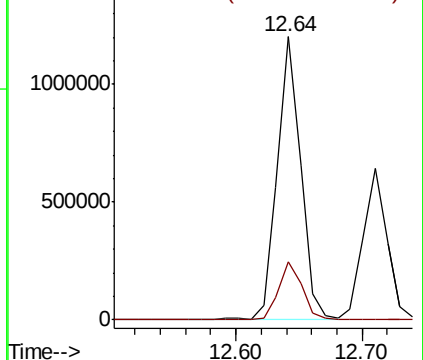
91 100

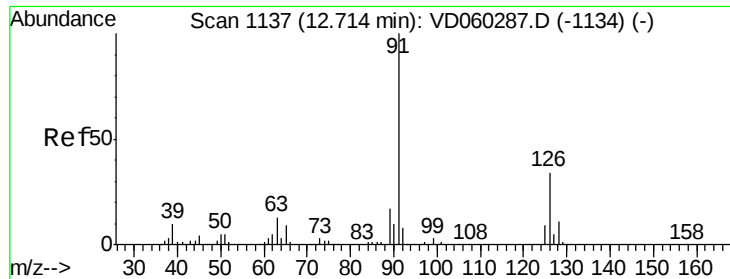
120 20.6 10.4 31.4



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 22.850 ug/l

RT: 12.71 min Scan# 1137

Delta R.T. -0.00 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

Instrument :

MSVOA_D

ClientSampleId :

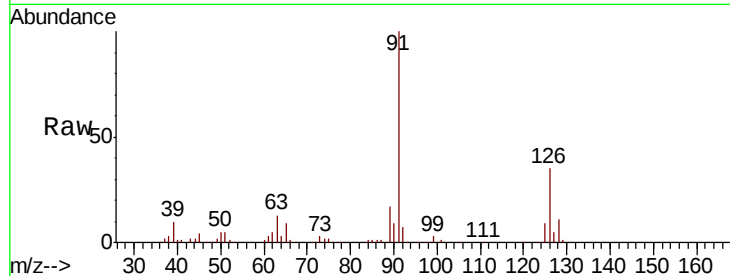
VD1120SBS01

Tot Ion: 91 Resp: 841530

Ion Ratio Lower Upper

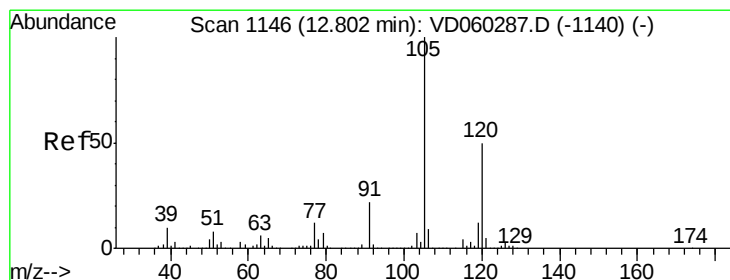
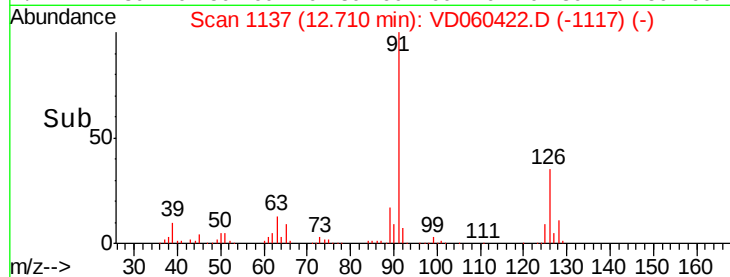
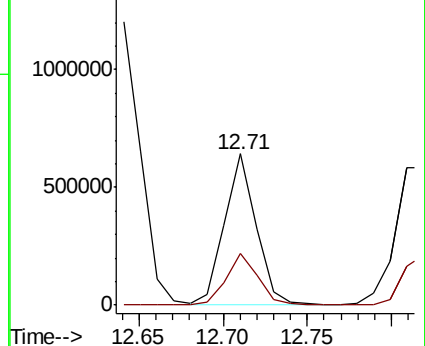
91 100

126 34.5 17.4 52.2



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 23.105 ug/l

RT: 12.80 min Scan# 1146

Delta R.T. -0.00 min

Lab File: VD060422.D

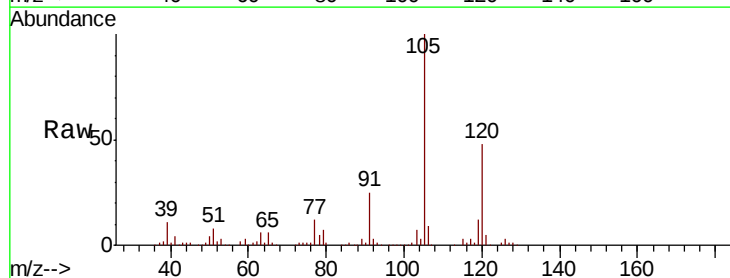
Acq: 20 Nov 2018 12:00

Tgt Ion:105 Resp: 967329

Ion Ratio Lower Upper

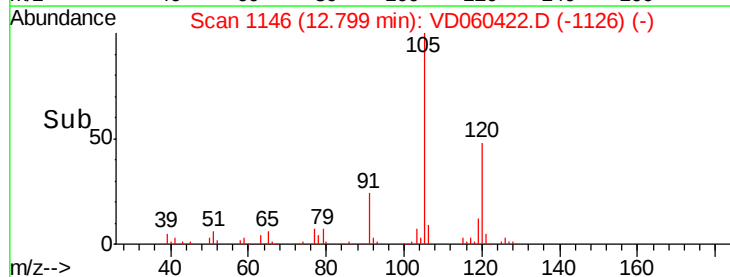
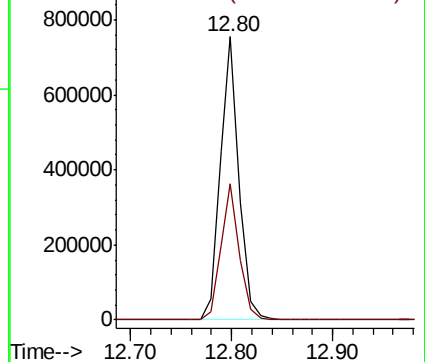
105 100

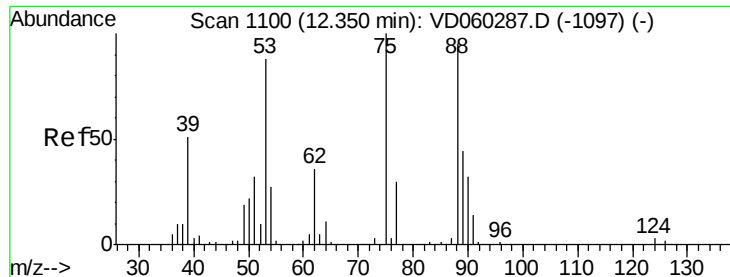
120 48.1 24.4 73.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 21.771 ug/l

RT: 12.35 min Scan# 1100

Delta R.T. -0.00 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

Instrument :

MSVOA_D

ClientSampleId :

VD1120SBS01

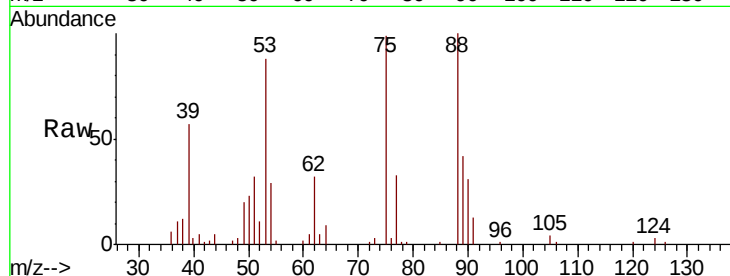
Tot Ion: 75 Resp: 54823

Ion Ratio Lower Upper

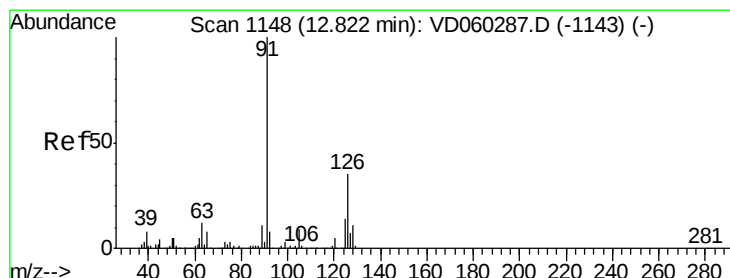
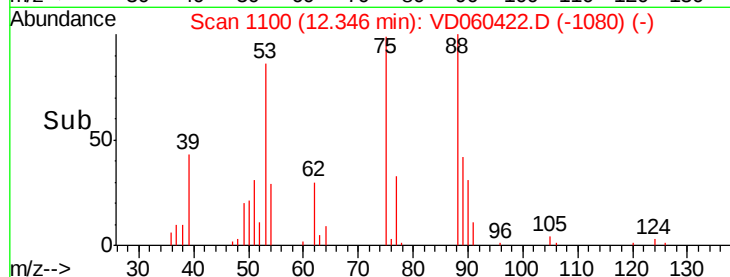
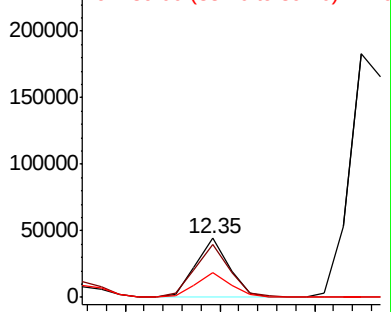
75 100

53 89.4 68.6 103.0

89 42.8 34.1 51.1



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: 22.981 ug/l

RT: 12.82 min Scan# 1148

Delta R.T. -0.00 min

Lab File: VD060422.D

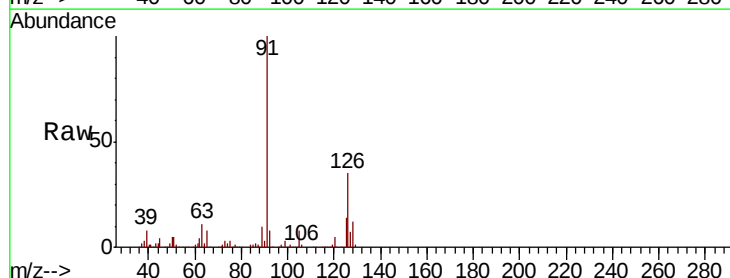
Acq: 20 Nov 2018 12:00

Tgt Ion: 91 Resp: 950727

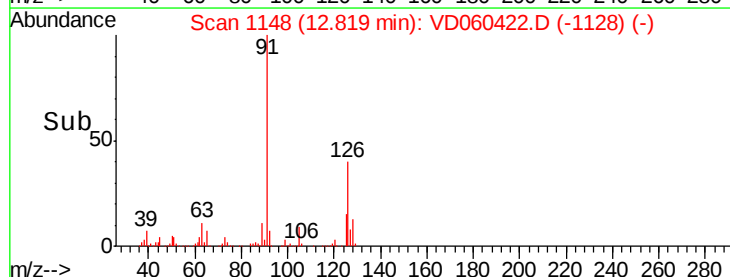
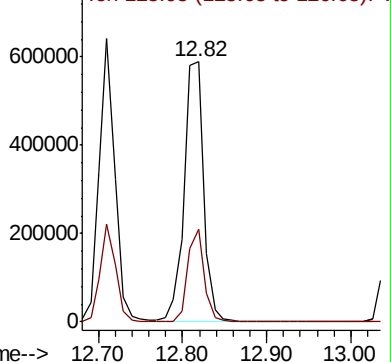
Ion Ratio Lower Upper

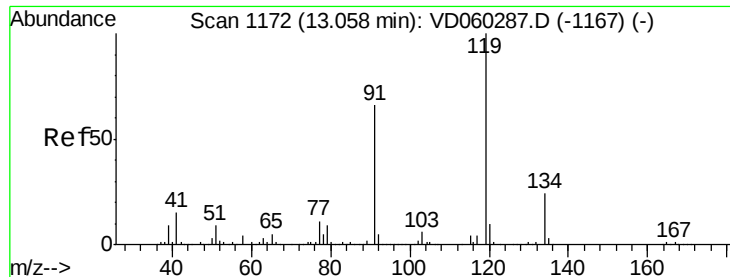
91 100

126 35.4 14.8 44.4



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





#83

tert-Butylbenzene

Concen: 22.893 ug/l

RT: 13.05 min Scan# 1172

Delta R.T. -0.00 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

Instrument :

MSVOA_D

ClientSampleId :

VD1120SBS01

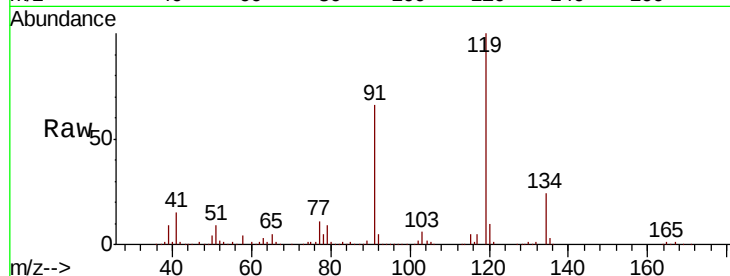
Tot Ion:119 Resp: 1064090

Ion Ratio Lower Upper

119 100

91 65.7 32.7 98.1

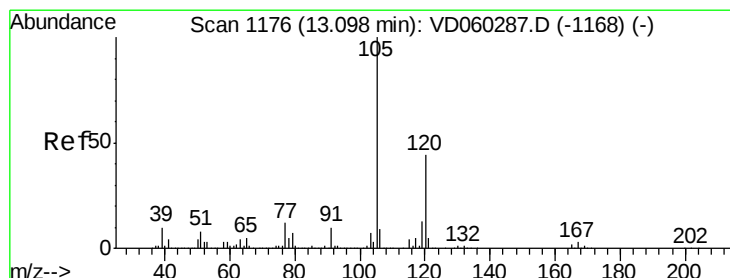
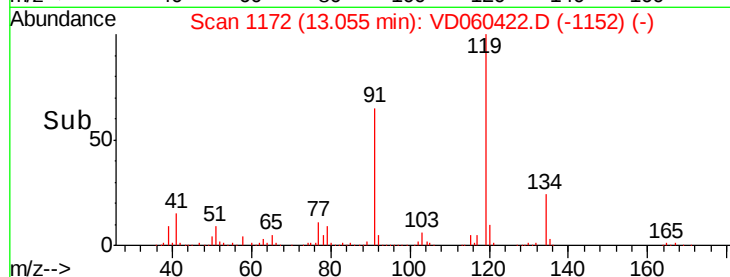
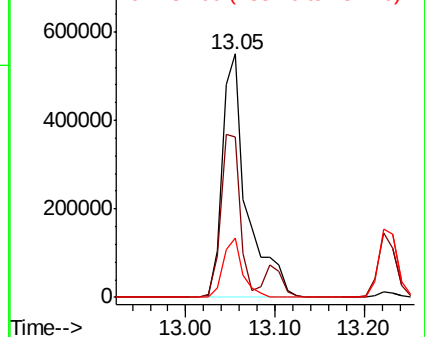
134 24.3 12.1 36.3



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): VD

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 23.497 ug/l

RT: 13.09 min Scan# 1176

Delta R.T. -0.00 min

Lab File: VD060422.D

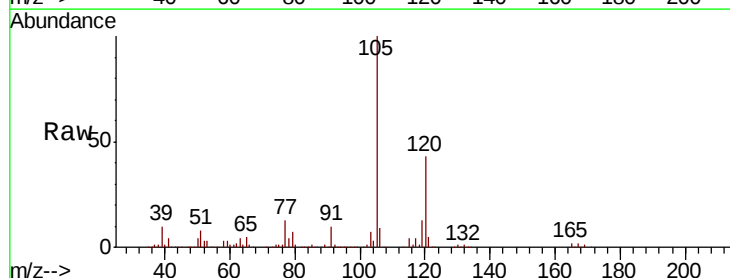
Acq: 20 Nov 2018 12:00

Tgt Ion:105 Resp: 982455

Ion Ratio Lower Upper

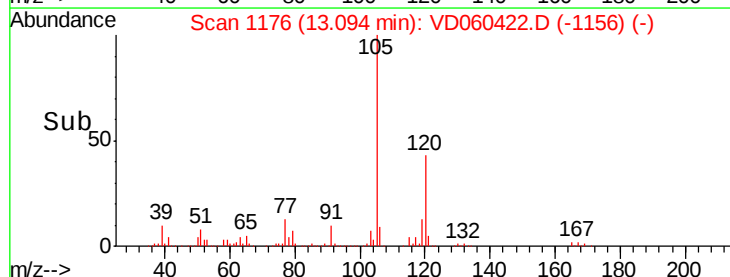
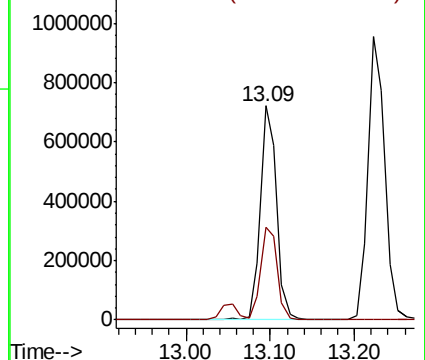
105 100

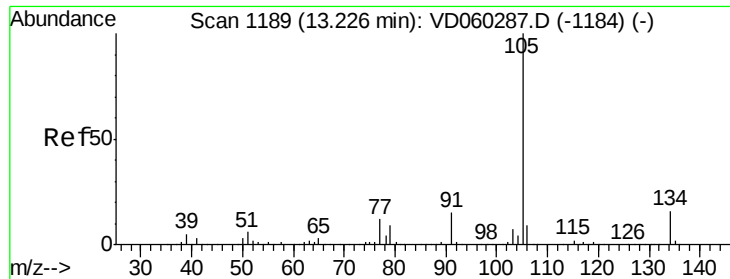
120 43.2 21.9 65.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#85

sec-Butylbenzene

Concen: 23.061 ug/l

RT: 13.22 min Scan# 1189

Delta R.T. -0.00 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

Instrument :

MSVOA_D

ClientSampleID :

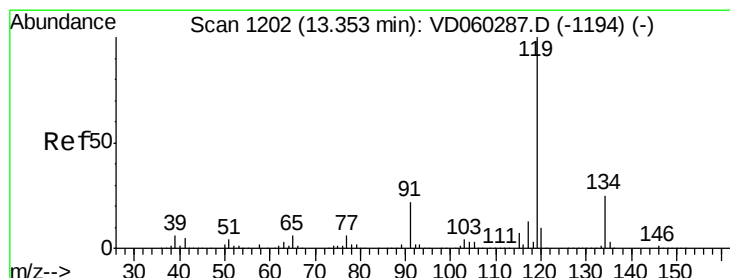
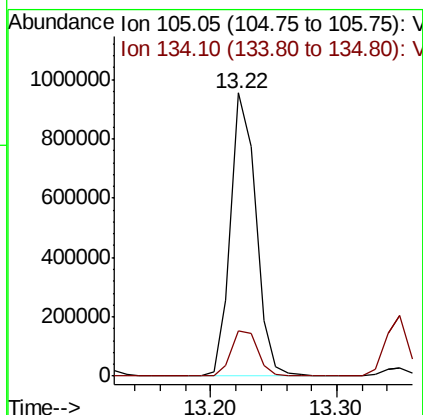
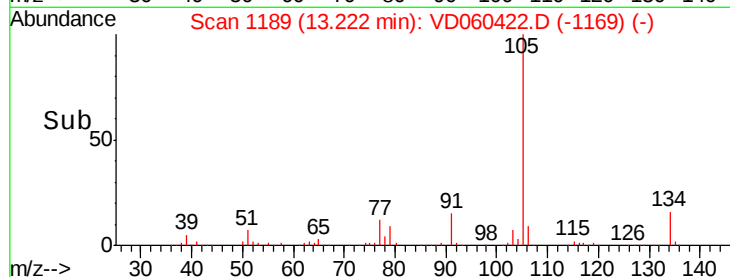
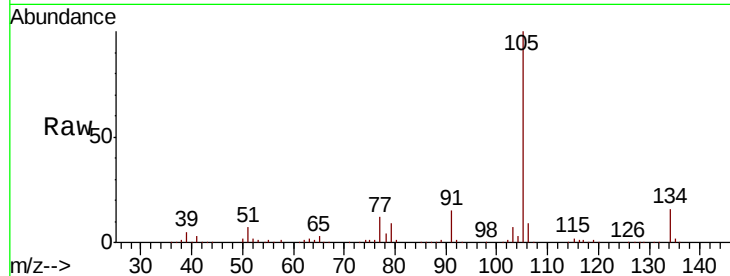
VD1120SBS01

Tot Ion:105 Resp: 1315088

Ion Ratio Lower Upper

105 100

134 16.1 8.0 24.0



#86

p-Isopropyltoluene

Concen: 23.534 ug/l

RT: 13.35 min Scan# 1202

Delta R.T. -0.00 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

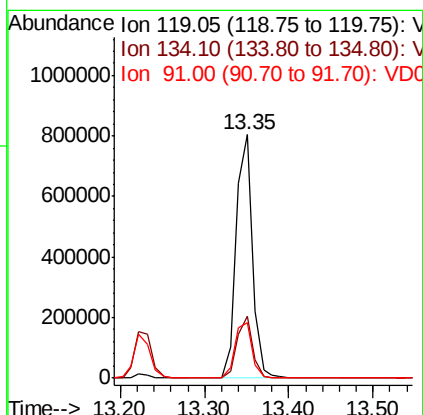
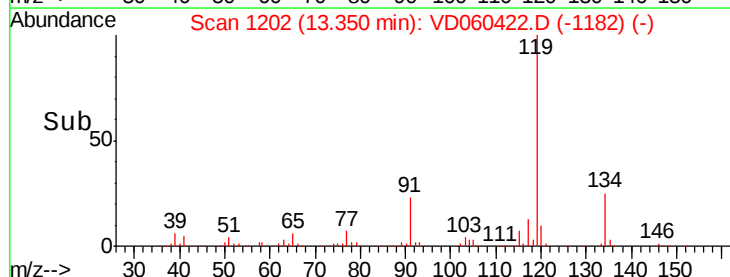
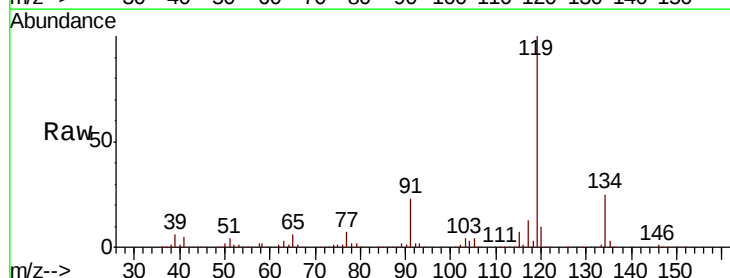
Tgt Ion:119 Resp: 1080796

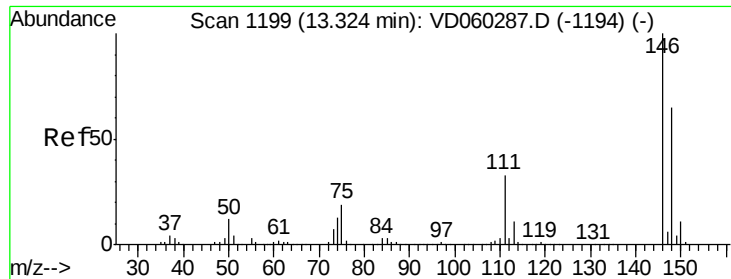
Ion Ratio Lower Upper

119 100

134 25.3 12.9 38.6

91 22.7 11.3 33.8

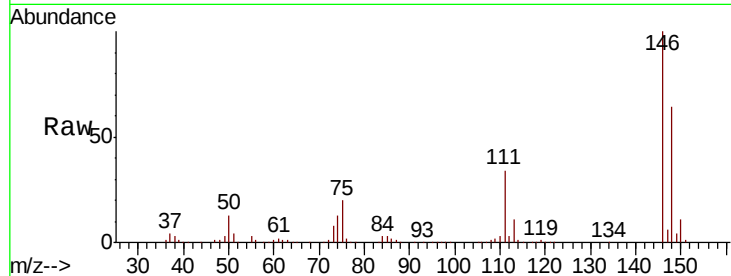




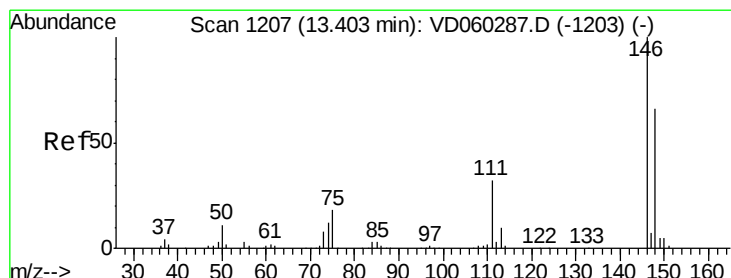
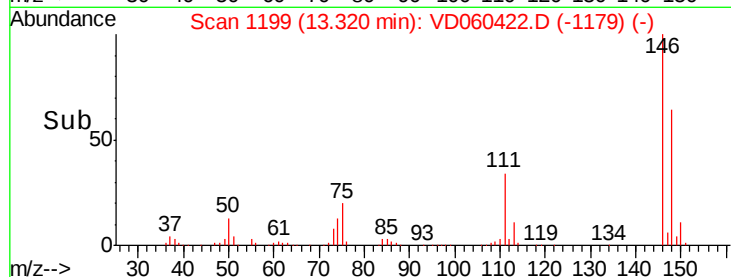
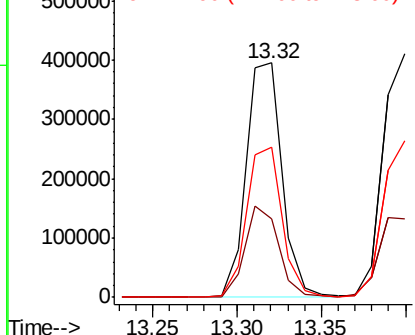
#87
 1,3-Dichlorobenzene
 Concen: 22.987 ug/l
 RT: 13.32 min Scan# 1199
 Delta R.T. -0.00 min
 Lab File: VD060422.D
 Acq: 20 Nov 2018 12:00

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1120SBS01

Tot Ion:146 Resp: 585230
 Ion Ratio Lower Upper
 146 100
 111 33.6 20.2 60.5
 148 64.1 32.0 96.0

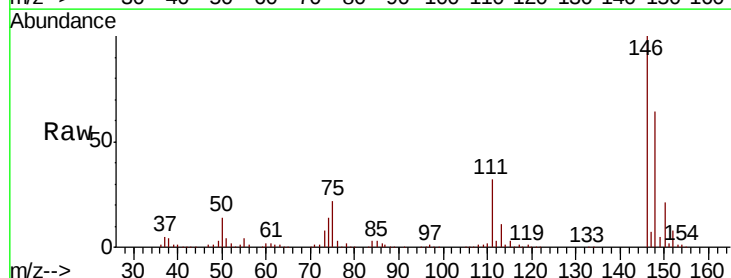


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

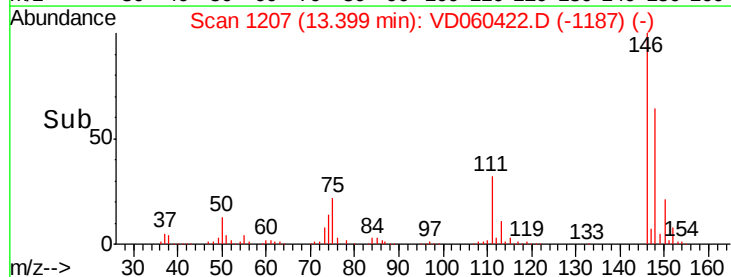
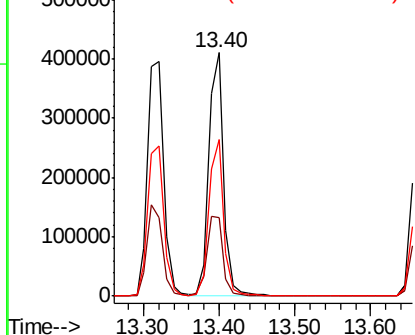


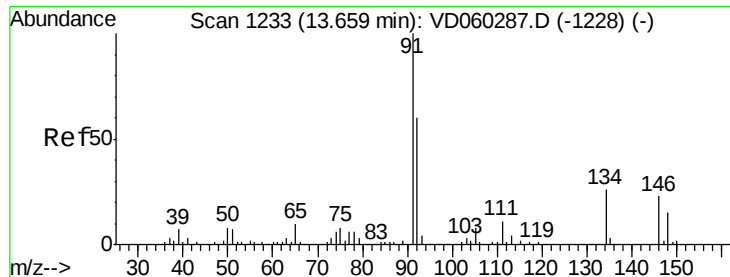
#88
 1,4-Dichlorobenzene
 Concen: 22.668 ug/l
 RT: 13.40 min Scan# 1207
 Delta R.T. -0.00 min
 Lab File: VD060422.D
 Acq: 20 Nov 2018 12:00

Tgt Ion:146 Resp: 563635
 Ion Ratio Lower Upper
 146 100
 111 32.3 16.0 47.9
 148 64.5 32.9 98.7



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

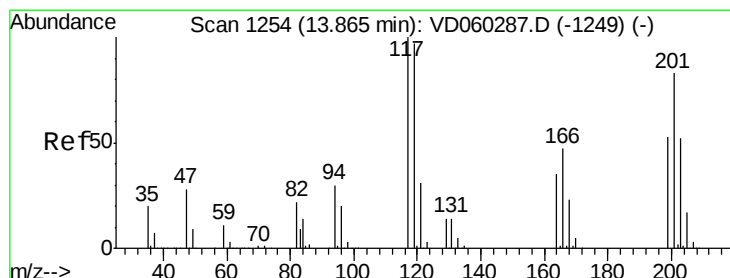
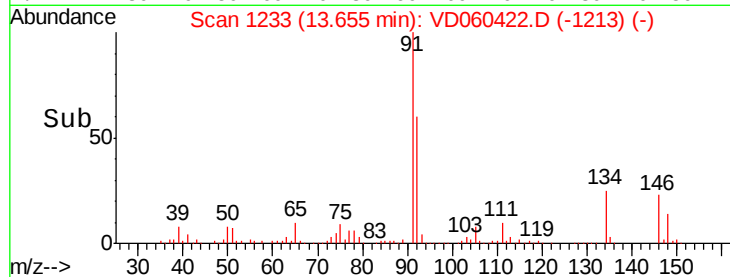
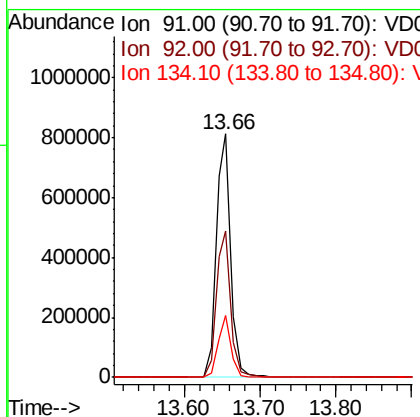
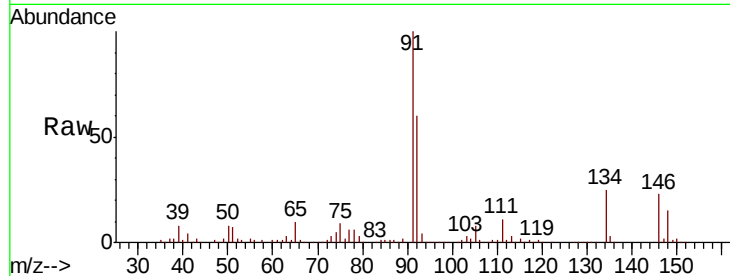




#89
n-Butylbenzene
Concen: 21.809 ug/l
RT: 13.66 min Scan# 1233
Delta R.T. -0.00 min
Lab File: VD060422.D
Acq: 20 Nov 2018 12:00

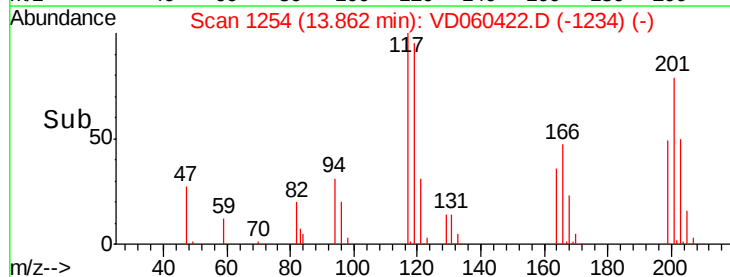
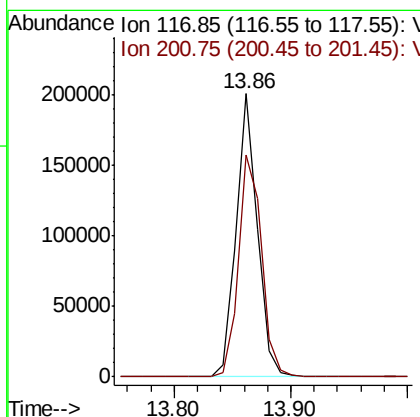
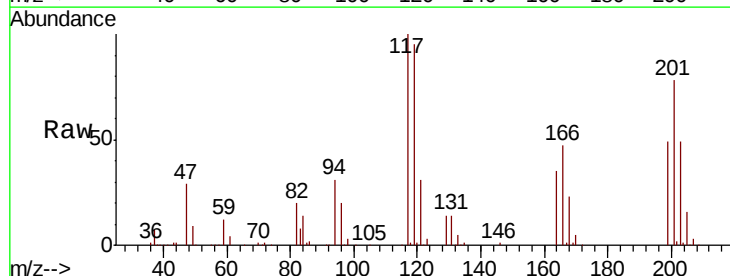
Instrument :
MSVOA_D
ClientSampleId :
VD1120SBS01

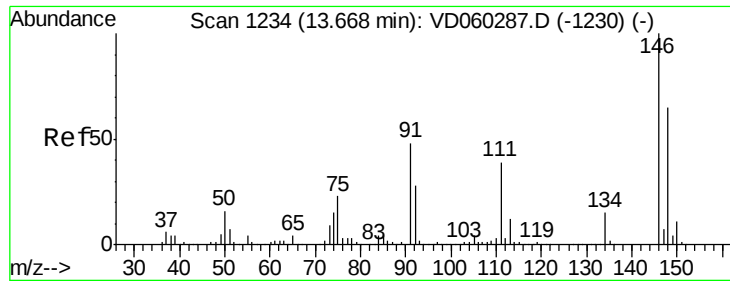
Tot Ion: 91 Resp: 1091194
Ion Ratio Lower Upper
91 100
92 59.9 30.3 90.9
134 25.2 13.0 38.9



#90
Hexachloroethane
Concen: 23.269 ug/l
RT: 13.86 min Scan# 1254
Delta R.T. -0.00 min
Lab File: VD060422.D
Acq: 20 Nov 2018 12:00

Tgt Ion: 117 Resp: 253391
Ion Ratio Lower Upper
117 100
201 78.4 40.1 120.3

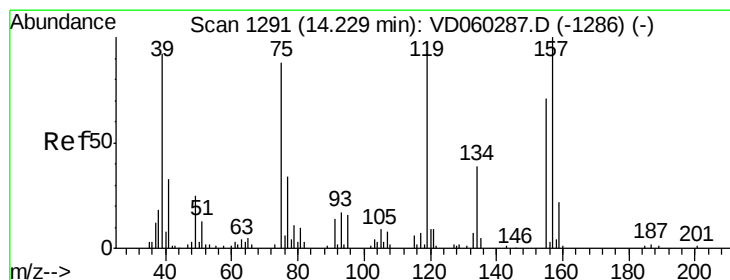
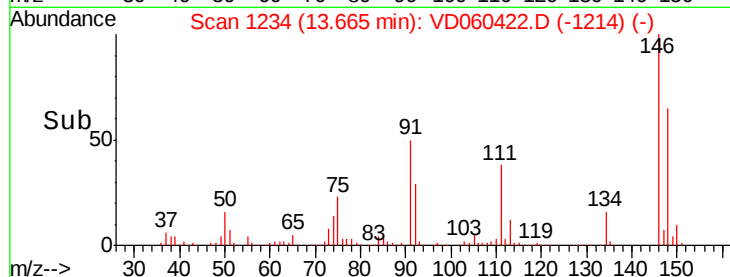
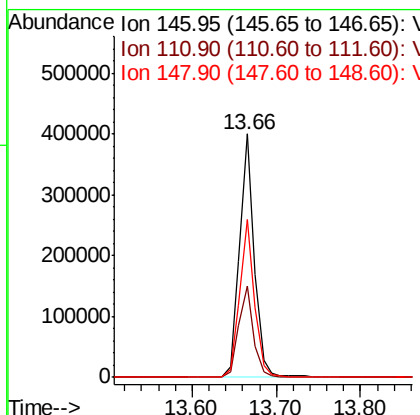
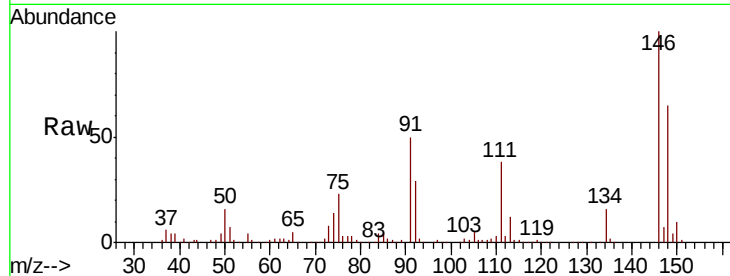




#91
 1,2-Dichlorobenzene
 Concen: 23.271 ug/l
 RT: 13.66 min Scan# 1234
 Delta R.T. -0.00 min
 Lab File: VD060422.D
 Acq: 20 Nov 2018 12:00

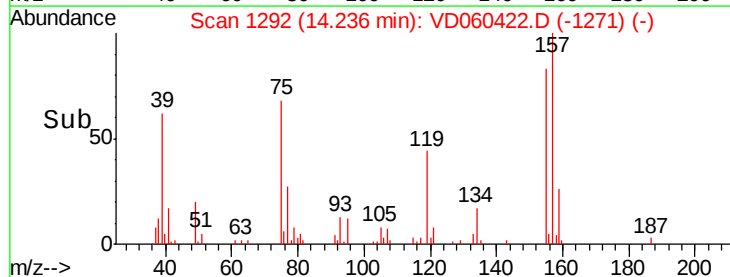
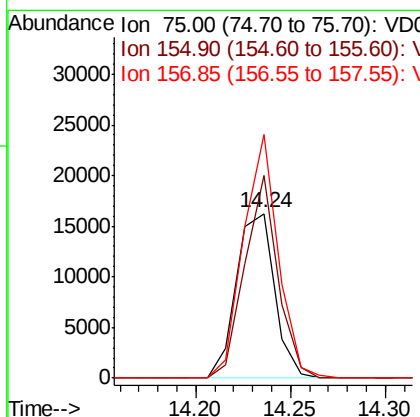
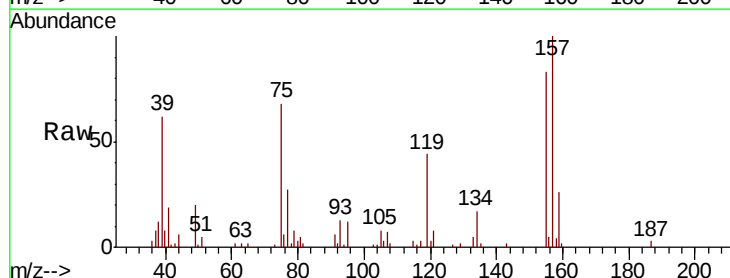
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1120SBS01

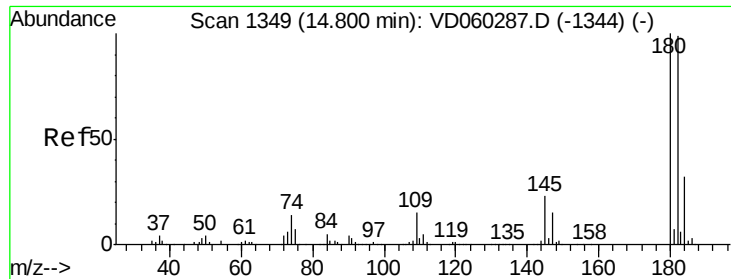
Tot Ion:146 Resp: 486633
 Ion Ratio Lower Upper
 146 100
 111 37.7 18.9 56.9
 148 64.7 31.6 94.8



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.286 ug/l
 RT: 14.24 min Scan# 1292
 Delta R.T. 0.01 min
 Lab File: VD060422.D
 Acq: 20 Nov 2018 12:00

Tgt Ion: 75 Resp: 22638
 Ion Ratio Lower Upper
 75 100
 155 122.8 64.3 192.9
 157 147.7 81.0 243.1

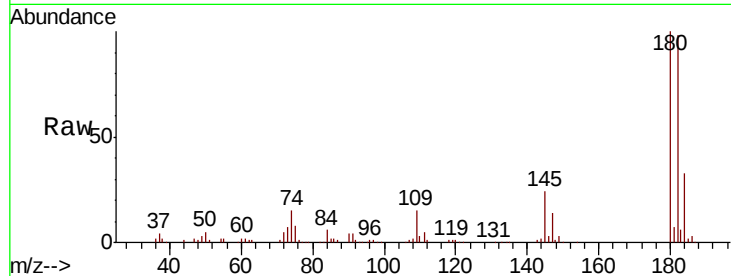




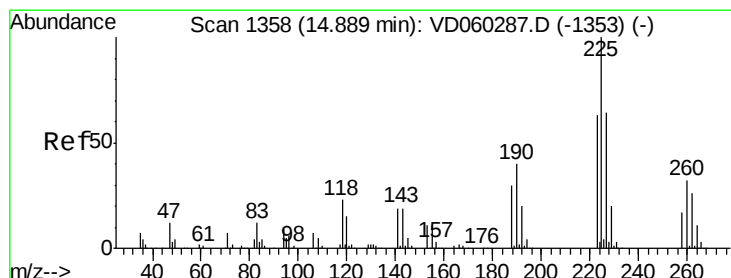
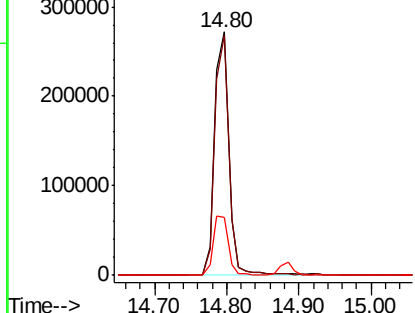
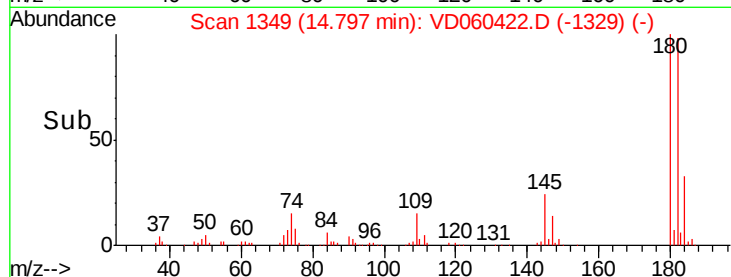
#93
 1,2,4-Trichlorobenzene
 Concen: 22.441 ug/l
 RT: 14.80 min Scan# 1349
 Delta R.T. -0.00 min
 Lab File: VD060422.D
 Acq: 20 Nov 2018 12:00

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1120SBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	98.3	48.1	144.4
145	23.8	11.5	34.4

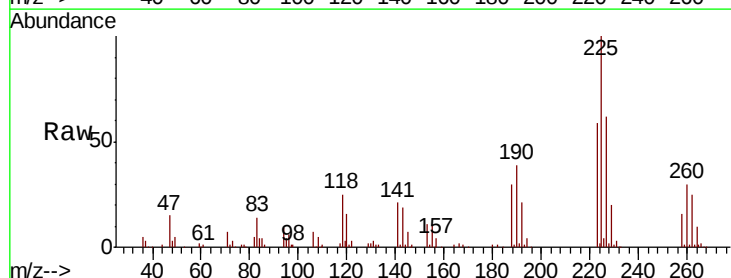


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

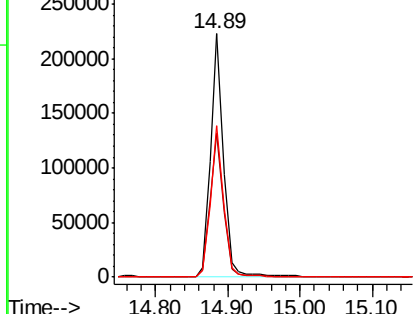
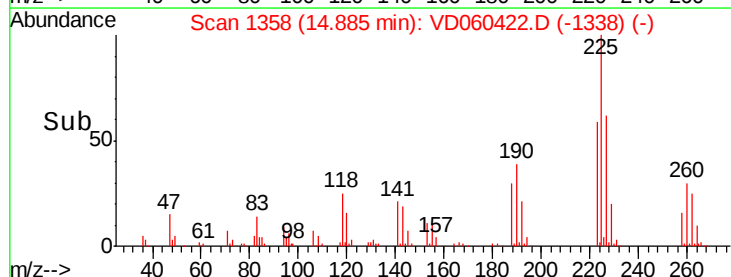


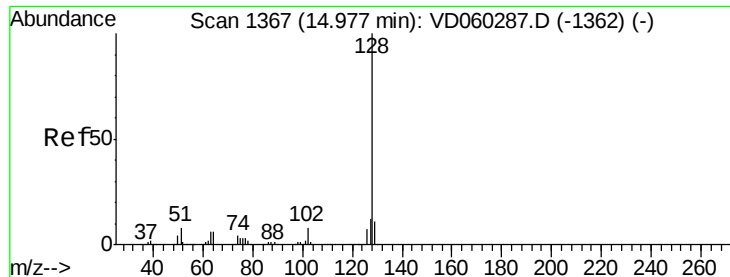
#94
 Hexachlorobutadiene
 Concen: 22.230 ug/l
 RT: 14.89 min Scan# 1358
 Delta R.T. -0.00 min
 Lab File: VD060422.D
 Acq: 20 Nov 2018 12:00

Tgt Ion	Ratio	Lower	Upper
225	100		
223	59.0	31.6	94.8
227	62.3	32.3	96.9



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





#95

Naphthalene

Concen: 20.927 ug/l

RT: 14.97 min Scan# 1367

Delta R.T. -0.00 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

Instrument :

MSVOA_D

ClientSampleId :

VD1120SBS01

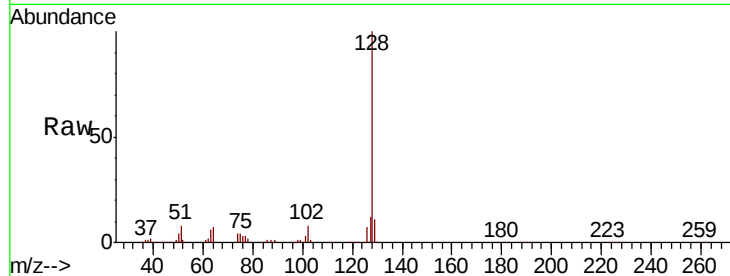
Tot Ion:128 Resp: 423670

Ion Ratio Lower Upper

128 100

127 12.2 9.6 14.4

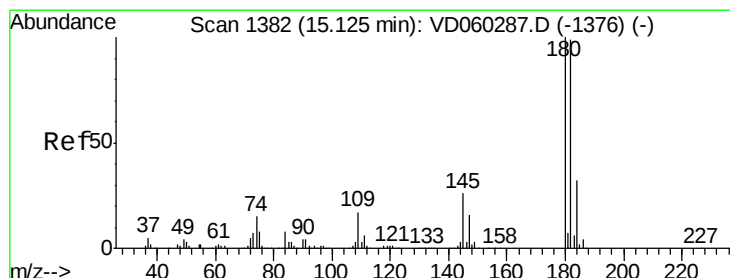
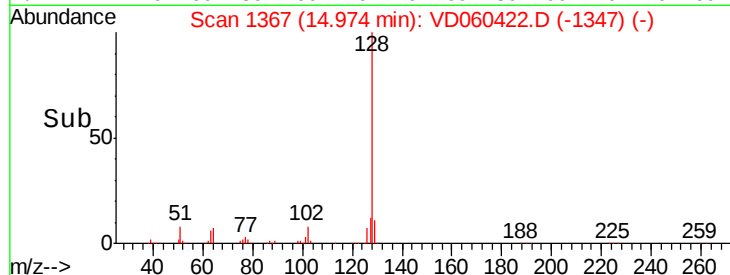
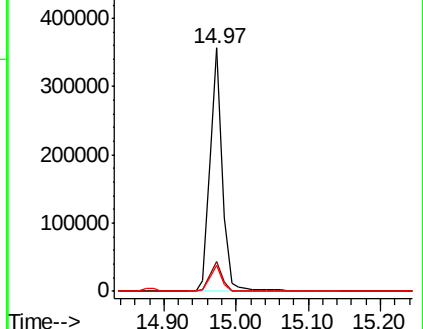
129 10.8 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 22.232 ug/l

RT: 15.12 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VD060422.D

Acq: 20 Nov 2018 12:00

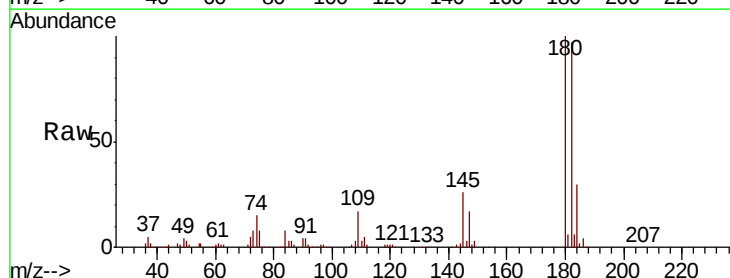
Tgt Ion:180 Resp: 295382

Ion Ratio Lower Upper

180 100

182 97.4 48.9 146.7

145 26.1 12.9 38.6



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

