

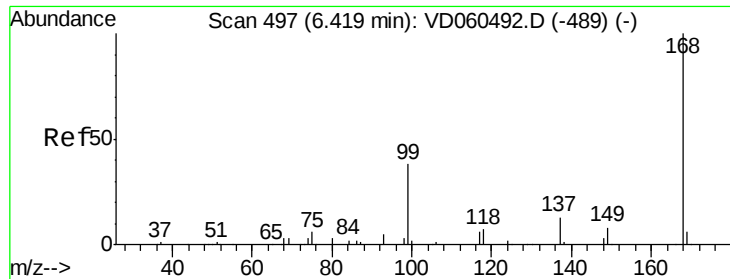
Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120618\
 Data File : VD060505.D
 Acq On : 6 Dec 2018 15:08
 Operator : VA/AP
 Sample : J6234-01
 Misc : 5.11a/5ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 07 03:36:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 06 01:49:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	46662	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	7.44	114	76387	50.00	ug/l	-0.02
63) Chlorobenzene-d5	11.28	117	66666	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.37	152	28912	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.78	65	27446	82.98	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	165.96%	
35) Dibromofluoromethane	6.33	113	28101	50.08	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.16%	
50) Toluene-d8	9.45	98	61413	37.82	ug/l	0.00
Spiked Amount 50.000			Recovery	=	75.64%	
62) 4-Bromofluorobenzene	12.42	95	24408	42.01	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	84.02%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.21	94	1206	12.599	ug/l	82
10) Methyl Iodide	3.30	142	808	2.411	ug/l #	35
16) Acetone	3.17	43	16391	309.179	ug/l #	89
18) Methyl Acetate	3.58	43	1805	14.326	ug/l #	64
20) Methylene Chloride	3.73	84	7448	11.892	ug/l	93
25) 2-Butanone	5.64	43	3012	28.878	ug/l #	59
26) 2,2-Dichloropropane	5.65	77	874	1.371	ug/l #	50
29) Tetrahydrofuran	5.95	42	224	3.793	ug/l #	40
31) Cyclohexane	6.39	56	308	Below Cal	#	28
36) 1,1-Dichloropropene	6.40	75	3202	4.288	ug/l #	41
37) Ethyl Acetate	5.64	43	3012	9.301	ug/l #	68
38) Carbon Tetrachloride	6.40	117	3133	4.674	ug/l #	12
51) 4-Methyl-2-Pentanone	9.44	43	386	1.552	ug/l #	42
55) 1,1,2-Trichloroethane	10.08	97	1690	5.088	ug/l #	16
59) 2-Hexanone	10.44	43	294	1.692	ug/l #	30
67) Ethyl Benzene	11.42	91	3060	1.272	ug/l	96
68) m/p-Xylenes	11.55	106	8207	9.221	ug/l	96
69) o-Xylene	11.92	106	4028	4.749	ug/l	85
81) trans-1,4-Dichloro-2-buten	12.42	75	10479	114.692	ug/l #	14
88) 1,4-Dichlorobenzene	13.39	146	1150	1.204	ug/l #	56
93) 1,2,4-Trichlorobenzene	14.78	180	717	1.153	ug/l #	58
95) Naphthalene	14.97	128	1570	2.122	ug/l #	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.40 min Scan# 496

Delta R.T. -0.02 min

Lab File: VD060505.D

Acq: 6 Dec 2018 15:08

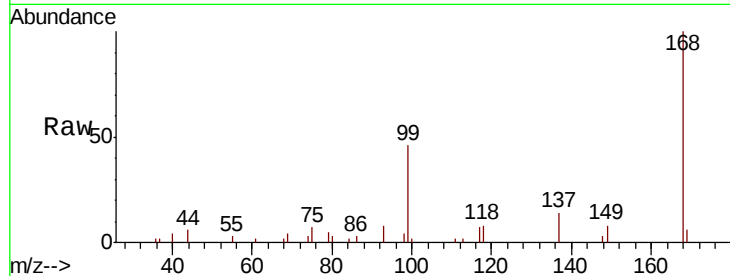
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 46662

Ion Ratio Lower Upper

168 100

99 45.8 35.6 53.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.40

15000

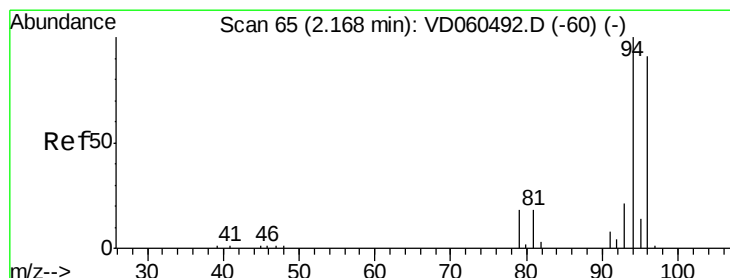
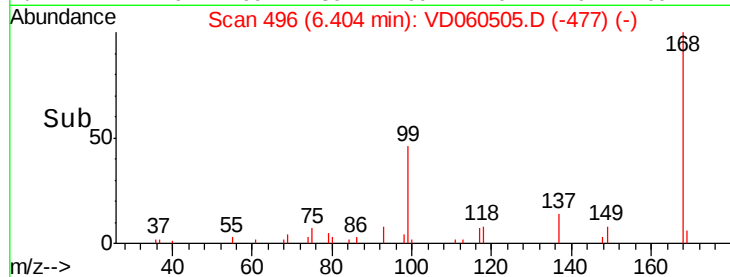
10000

5000

0

6.30 6.40 6.50 6.60

Time-->



#5

Bromomethane

Concen: 12.599 ug/l

RT: 2.21 min Scan# 70

Delta R.T. 0.04 min

Lab File: VD060505.D

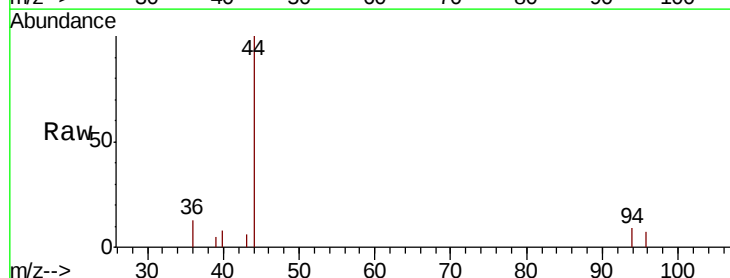
Acq: 6 Dec 2018 15:08

Tgt Ion: 94 Resp: 1206

Ion Ratio Lower Upper

94 100

96 73.8 72.6 108.8



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.21

600

500

400

300

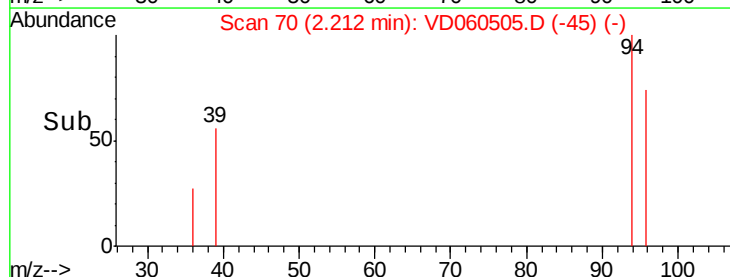
200

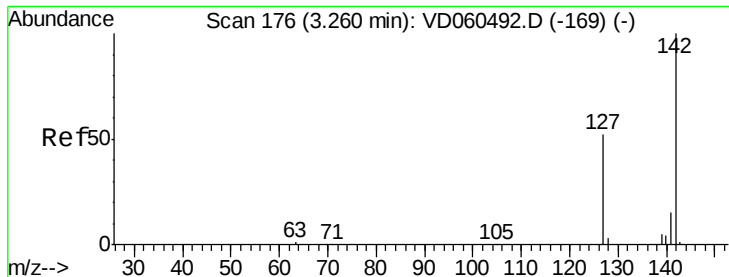
100

0

2.15 2.20 2.25

Time-->

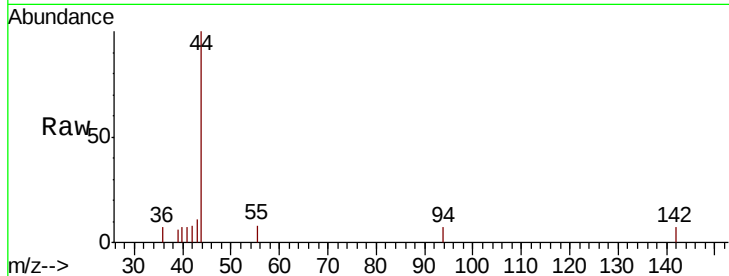




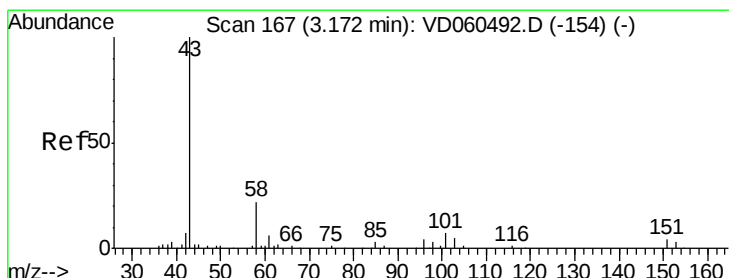
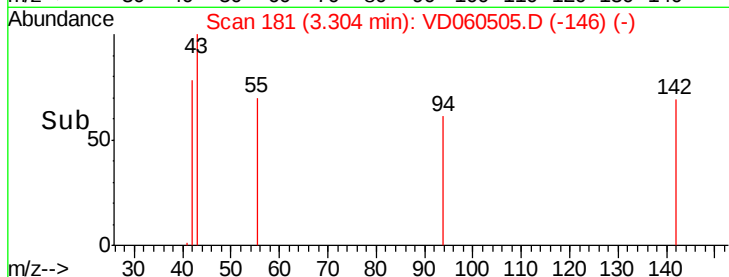
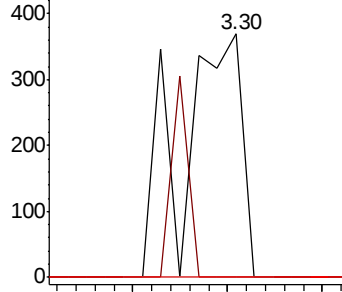
#10
Methyl Iodide
Concen: 2.411 ug/l
RT: 3.30 min Scan# 181
Delta R.T. 0.04 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:142 Resp: 808
Ion Ratio Lower Upper
142 100
127 0.0 41.2 61.8#
141 0.0 11.9 17.9#

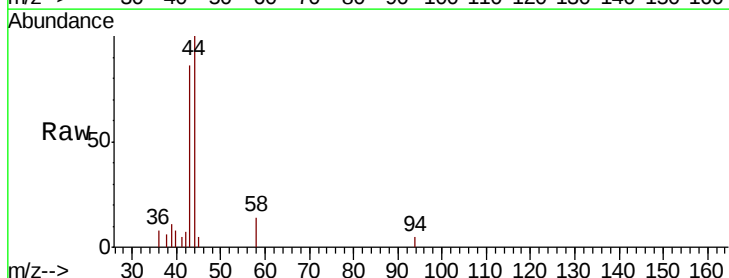


Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V

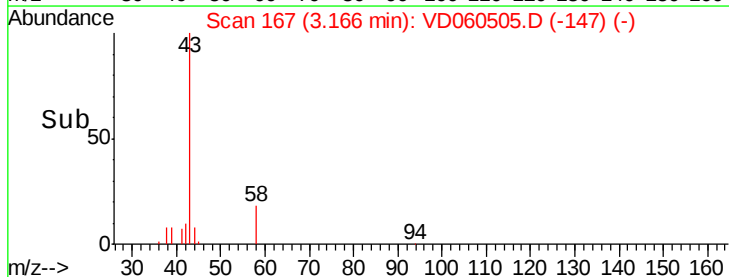
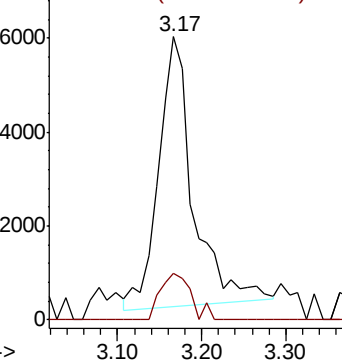


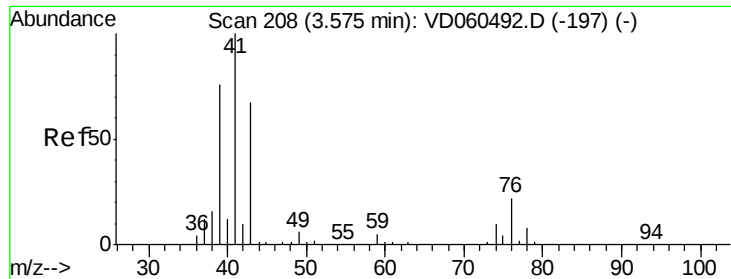
#16
Acetone
Concen: 309.179 ug/l
RT: 3.17 min Scan# 167
Delta R.T. -0.01 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

Tgt Ion: 43 Resp: 16391
Ion Ratio Lower Upper
43 100
58 16.5 17.3 25.9#



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

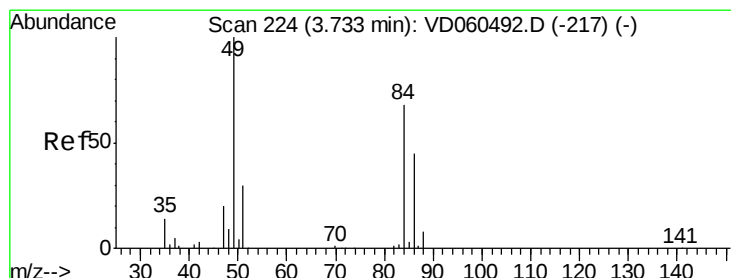
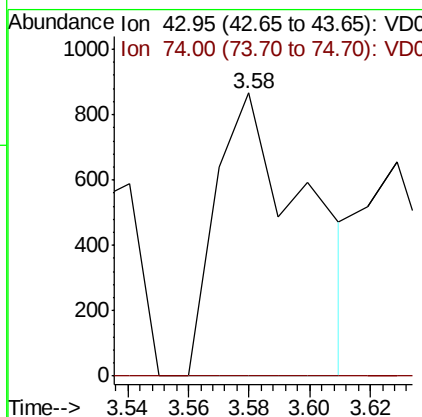
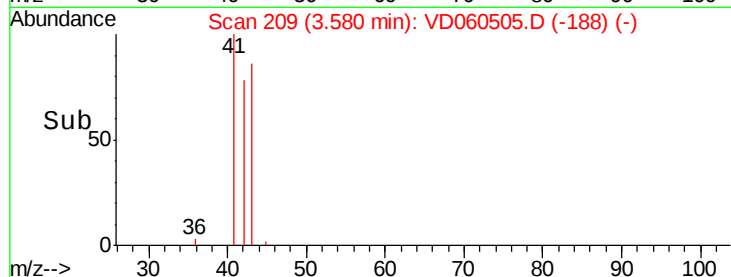
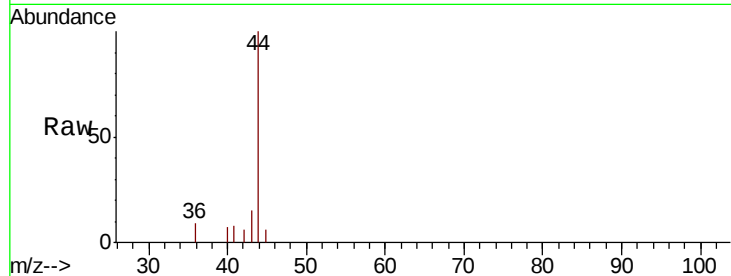




#18
Methyl Acetate
Concen: 14.326 ug/l
RT: 3.58 min Scan# 209
Delta R.T. 0.00 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

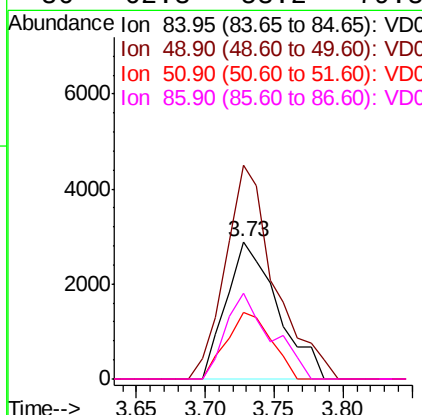
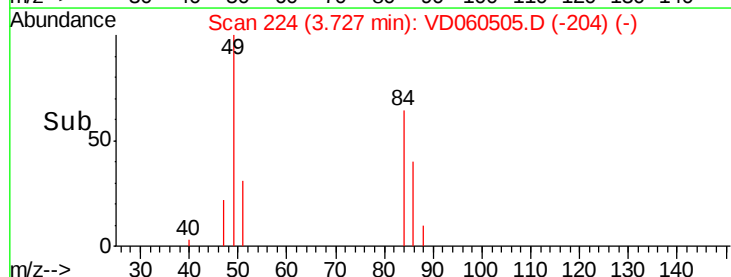
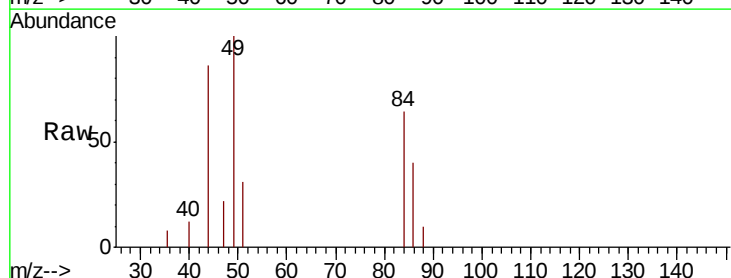
Instrument :
MSVOA_D
ClientSampled :

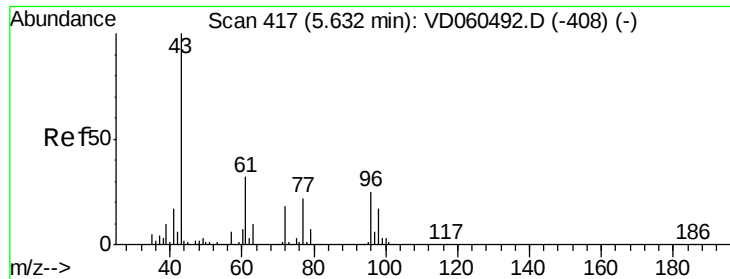
Tot Ion: 43 Resp: 1805
Ion Ratio Lower Upper
43 100
74 0.0 12.0 18.0#



#20
Methylene Chloride
Concen: 11.892 ug/l
RT: 3.73 min Scan# 224
Delta R.T. -0.00 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

Tgt Ion: 84 Resp: 7448
Ion Ratio Lower Upper
84 100
49 155.4 117.2 175.8
51 48.7 35.3 52.9
86 62.3 53.2 79.8





#25

2-Butanone

Concen: 28.878 ug/l

RT: 5.64 min Scan# 418

Delta R.T. 0.00 min

Lab File: VD060505.D

Acq: 6 Dec 2018 15:08

Instrument :

MSVOA_D

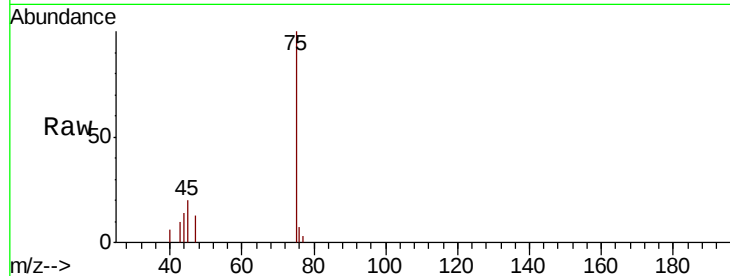
ClientSampleId :

Tot Ion: 43 Resp: 3012

Ion Ratio Lower Upper

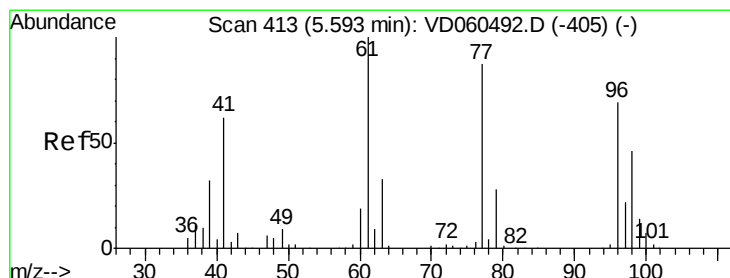
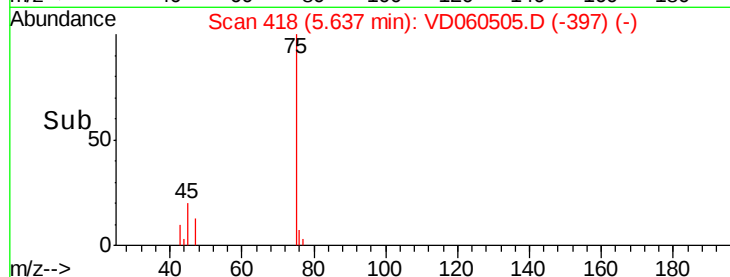
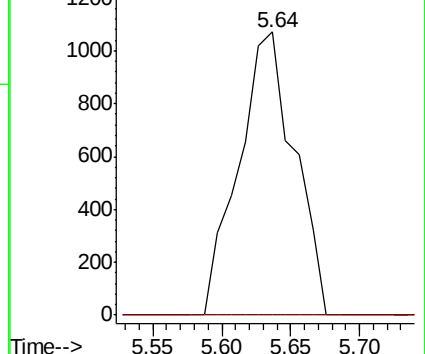
43 100

72 0.0 14.6 21.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 1.371 ug/l

RT: 5.65 min Scan# 419

Delta R.T. 0.05 min

Lab File: VD060505.D

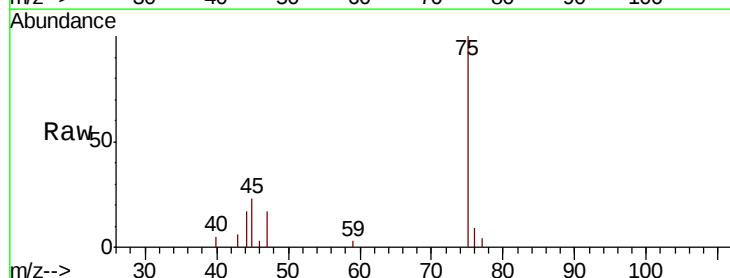
Acq: 6 Dec 2018 15:08

Tgt Ion: 77 Resp: 874

Ion Ratio Lower Upper

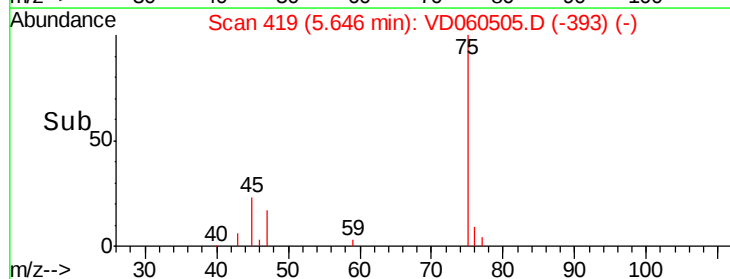
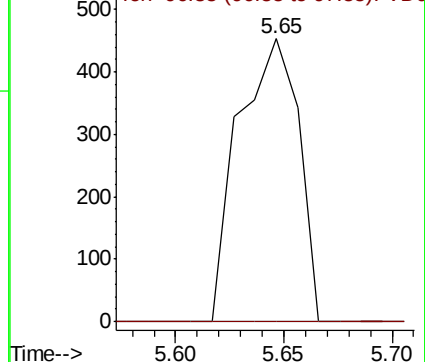
77 100

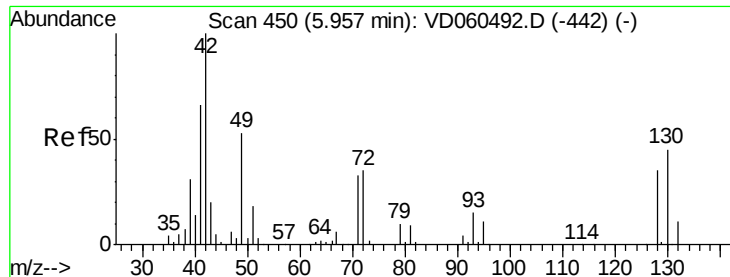
97 0.0 12.7 38.0#



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC

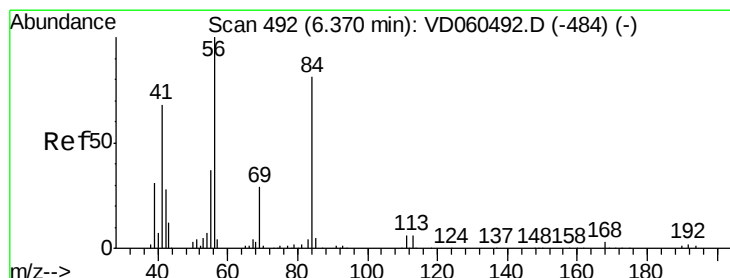
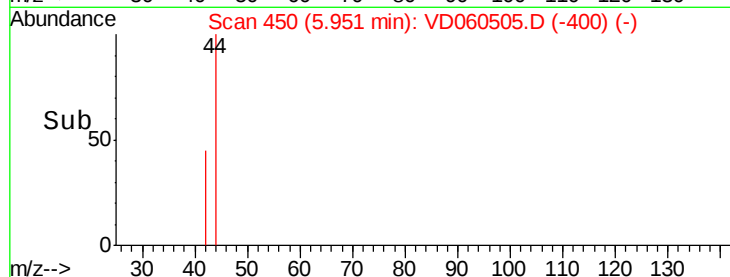
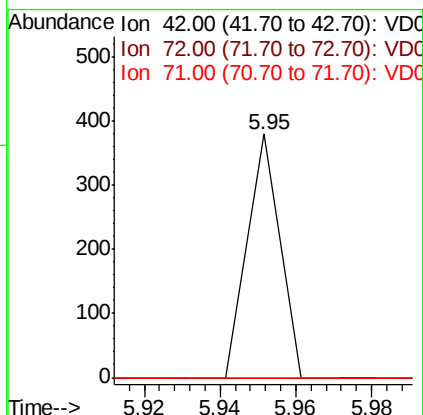
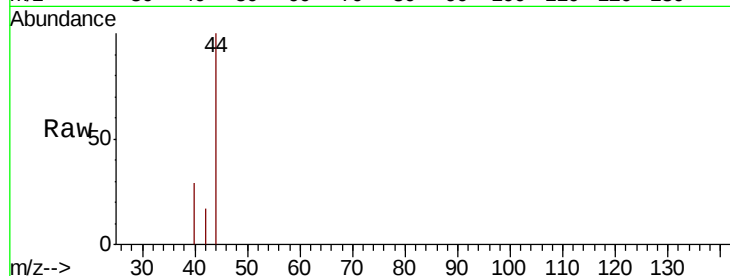




#29
Tetrahydrofuran
Concen: 3.793 ug/l
RT: 5.95 min Scan# 450
Delta R.T. -0.01 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

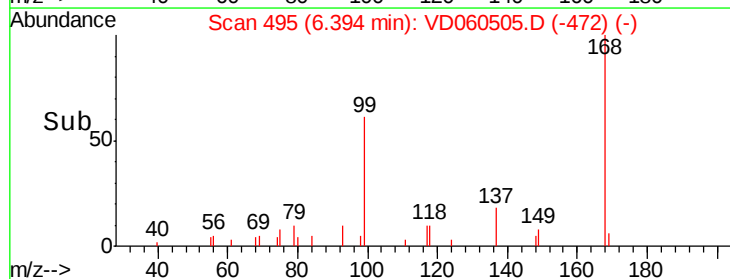
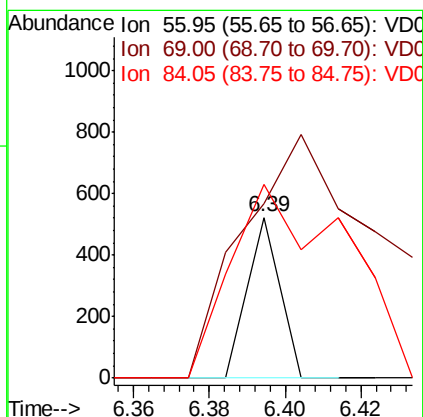
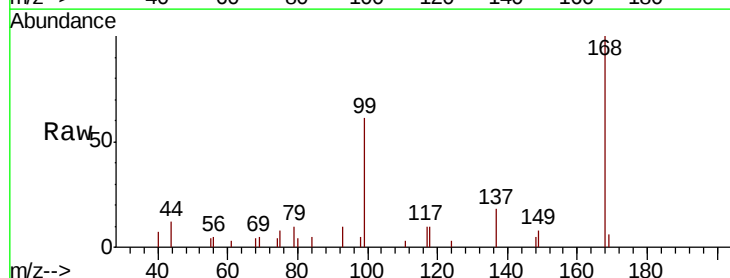
Instrument :
MSVOA_D
ClientSampled :

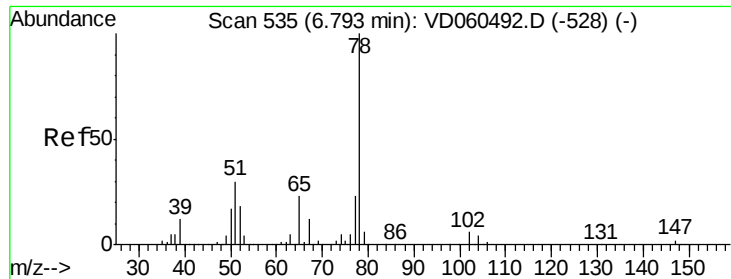
Tot Ion: 42 Resp: 224
Ion Ratio Lower Upper
42 100
72 0.0 28.0 42.0#
71 0.0 27.2 40.8#



#31
Cyclohexane
Concen: Below Cal
RT: 6.39 min Scan# 495
Delta R.T. 0.02 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

Tgt Ion: 56 Resp: 308
Ion Ratio Lower Upper
56 100
69 108.6 22.8 34.2#
84 120.5 65.1 97.7#

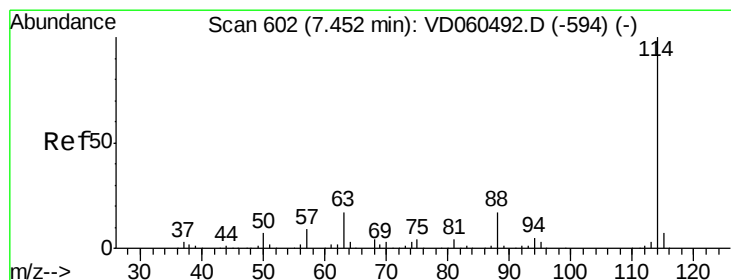
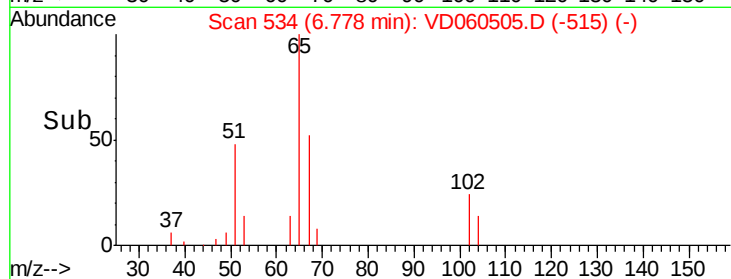
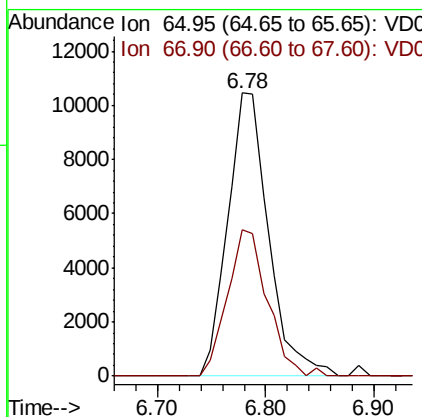
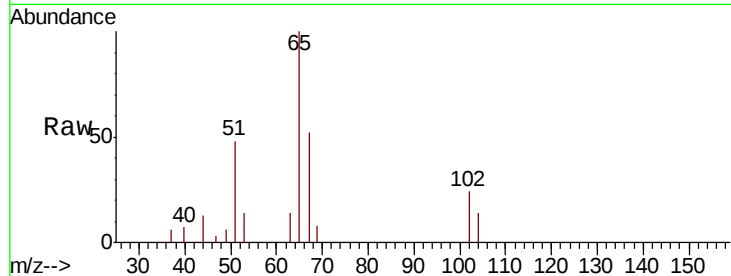




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.78 min Scan# 534
 Delta R.T. -0.02 min
 Lab File: VD060505.D
 Acq: 6 Dec 2018 15:08

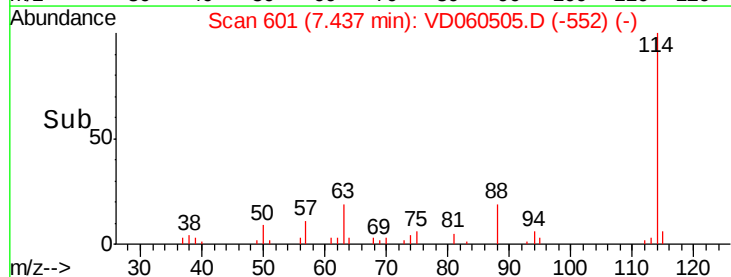
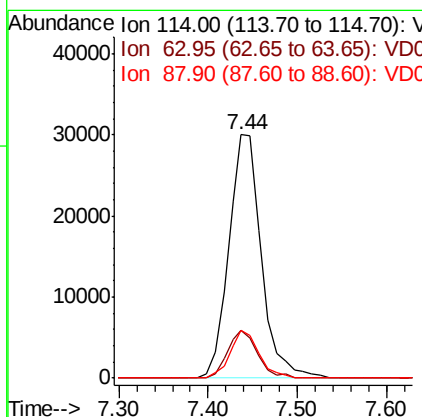
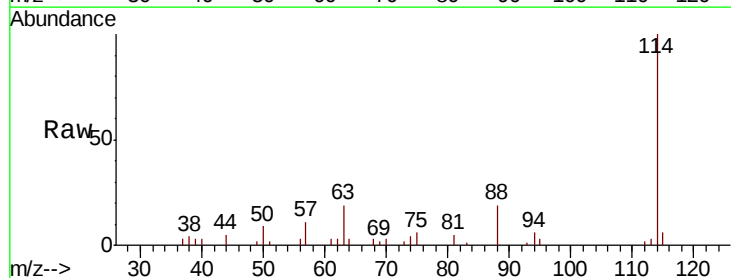
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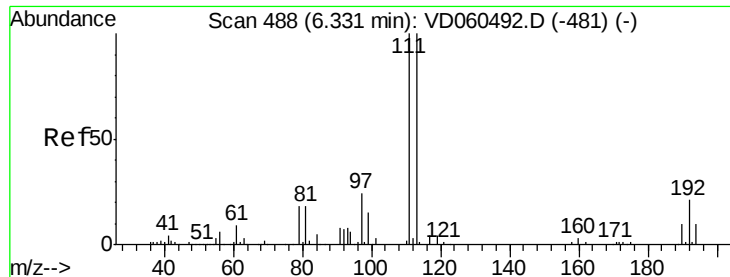
Tot Ion: 65 Resp: 27446
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.44 min Scan# 601
 Delta R.T. -0.02 min
 Lab File: VD060505.D
 Acq: 6 Dec 2018 15:08

Tgt Ion: 114 Resp: 76387
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 34.2
 88 19.5 0.0 35.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.33 min Scan# 488

Delta R.T. -0.01 min

Lab File: VD060505.D

Acq: 6 Dec 2018 15:08

Instrument :

MSVOA_D

ClientSampled :

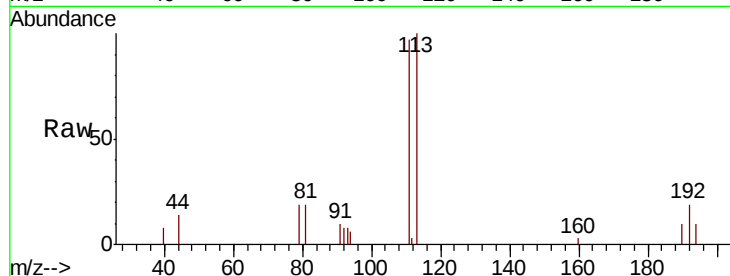
Tot Ion:113 Resp: 28101

Ion Ratio Lower Upper

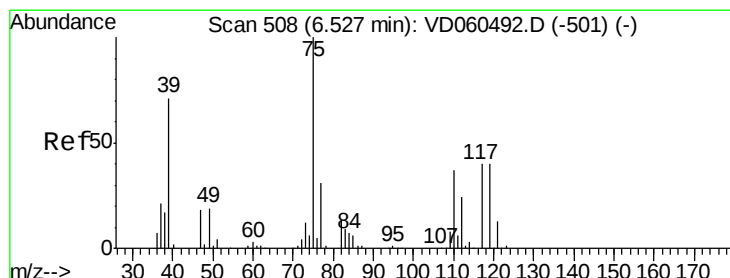
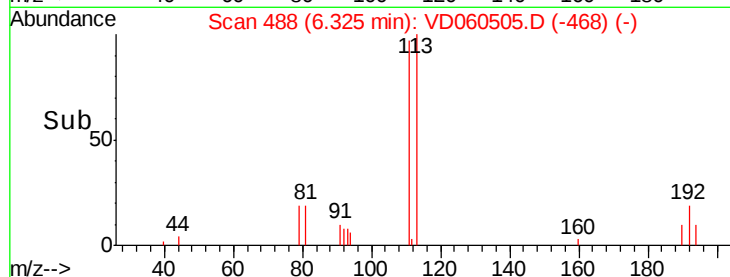
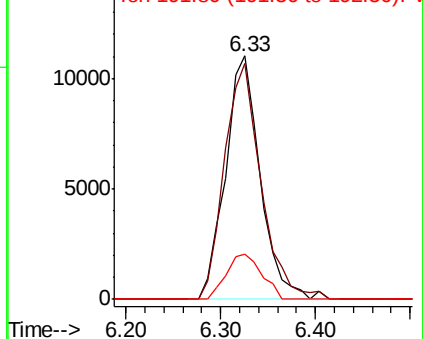
113 100

111 97.1 80.2 120.4

192 18.8 16.6 24.8



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



#36

1,1-Dichloropropene

Concen: 4.288 ug/l

RT: 6.40 min Scan# 496

Delta R.T. -0.12 min

Lab File: VD060505.D

Acq: 6 Dec 2018 15:08

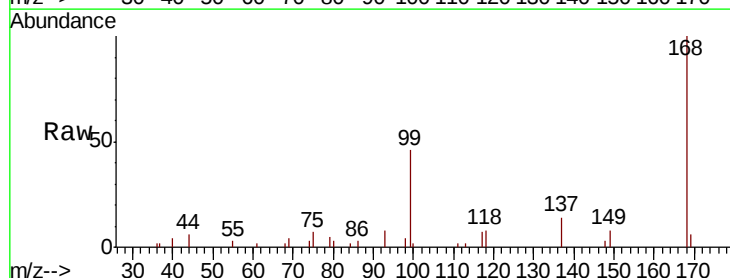
Tgt Ion: 75 Resp: 3202

Ion Ratio Lower Upper

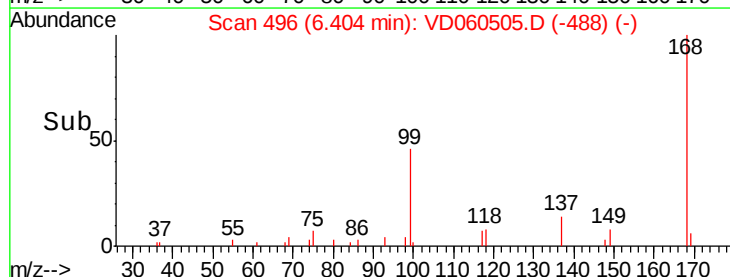
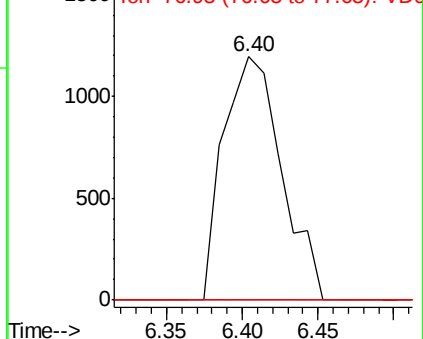
75 100

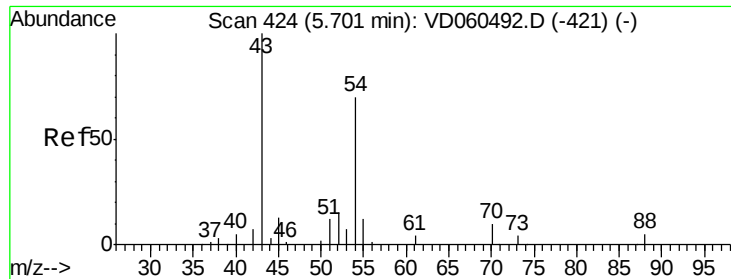
110 0.0 18.3 54.8#

77 0.0 24.6 37.0#



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

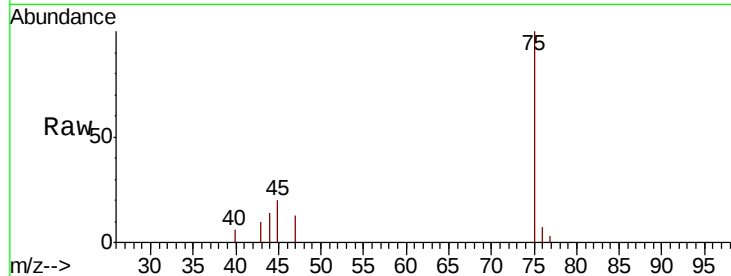




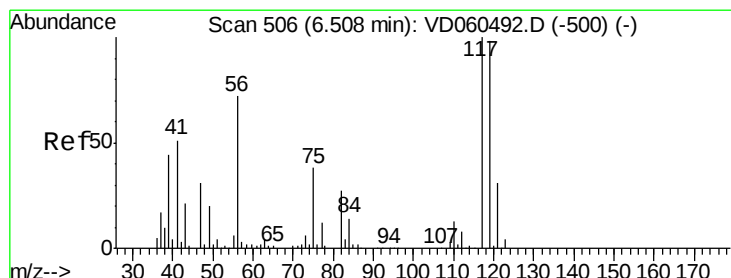
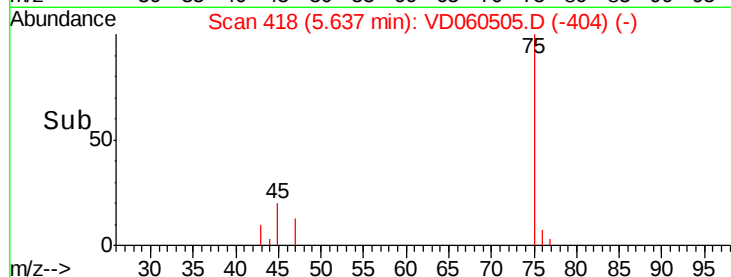
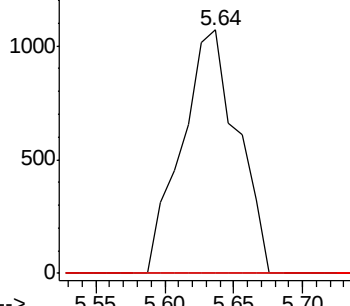
#37
Ethyl Acetate
Concen: 9.301 ug/l
RT: 5.64 min Scan# 418
Delta R.T. -0.06 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 3012
Ion Ratio Lower Upper
43 100
61 0.0 12.4 18.6#
70 0.0 5.4 8.0#

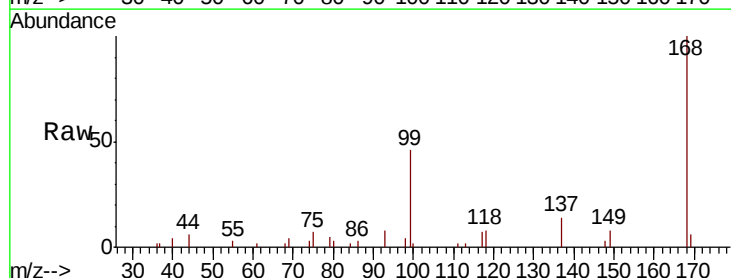


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

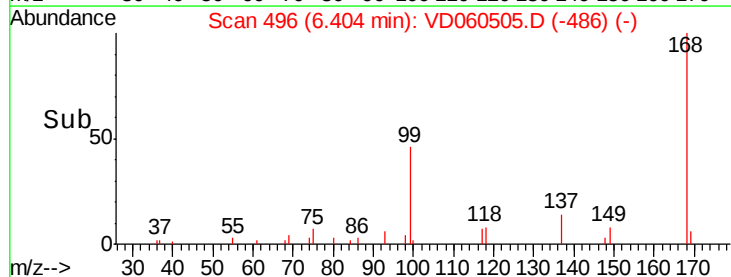
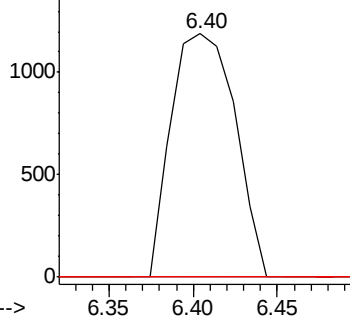


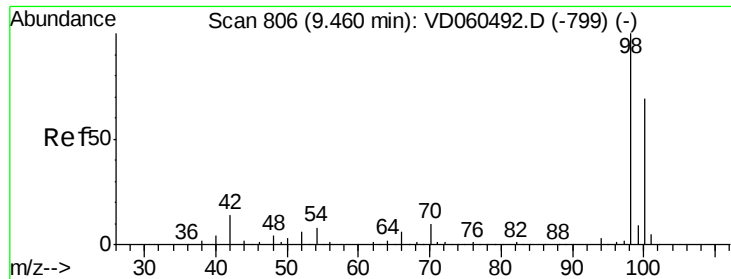
#38
Carbon Tetrachloride
Concen: 4.674 ug/l
RT: 6.40 min Scan# 496
Delta R.T. -0.10 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

Tgt Ion: 117 Resp: 3133
Ion Ratio Lower Upper
117 100
119 0.0 76.8 115.2#
121 0.0 24.4 36.6#



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

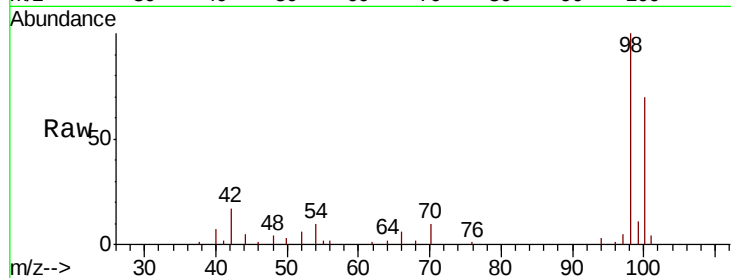




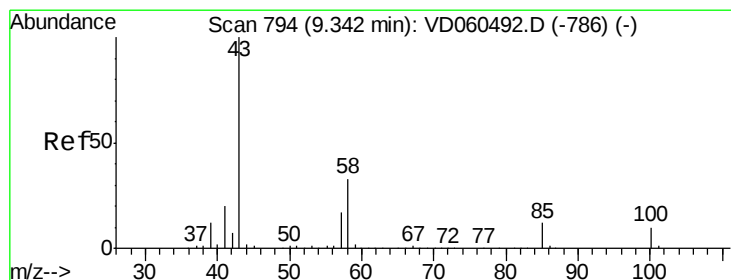
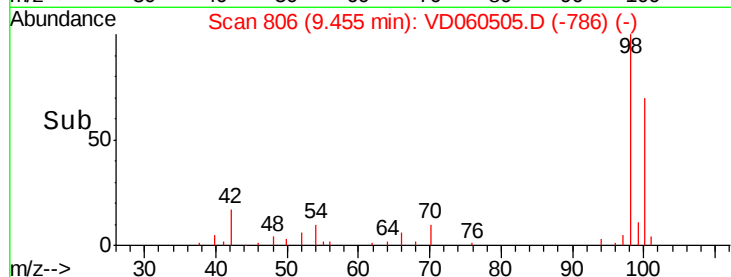
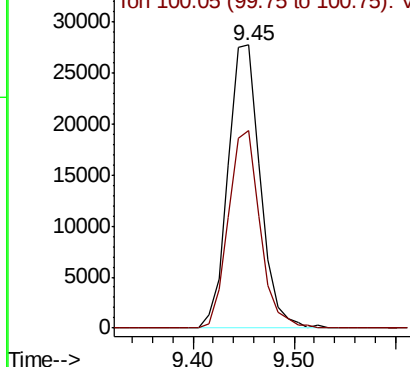
#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.45 min Scan# 806
Delta R.T. -0.01 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 98 Resp: 61413
Ion Ratio Lower Upper
98 100
100 69.7 55.7 83.5

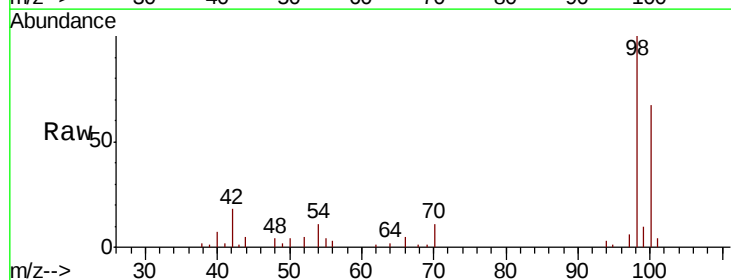


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

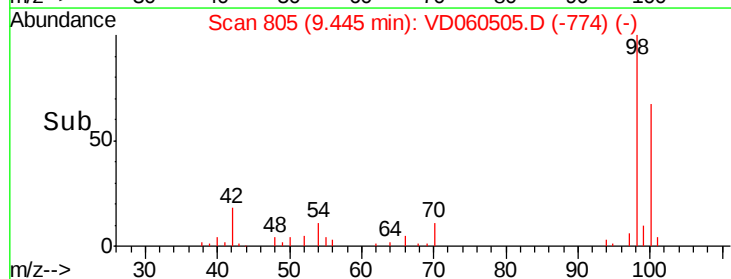
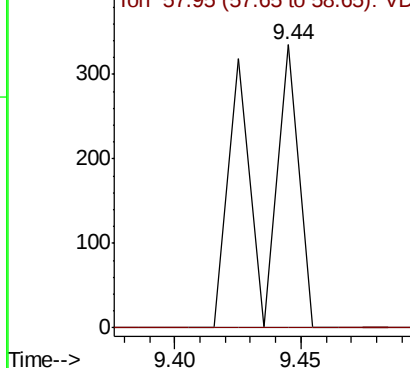


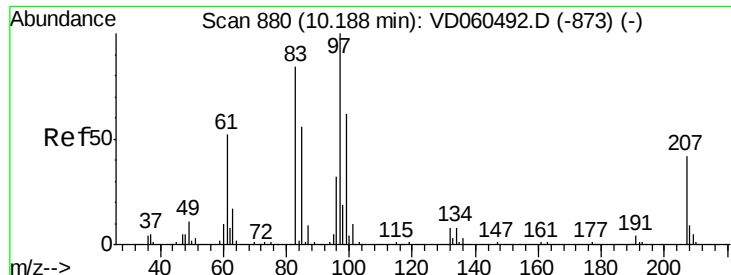
#51
4-Methyl-2-Pentanone
Concen: 1.552 ug/l
RT: 9.44 min Scan# 805
Delta R.T. 0.10 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

Tgt Ion: 43 Resp: 386
Ion Ratio Lower Upper
43 100
58 0.0 26.3 39.5#



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





#55

1,1,2-Trichloroethane

Concen: 5.088 ug/l

RT: 10.08 min Scan# 870

Delta R.T. -0.10 min

Lab File: VD060505.D

Acq: 6 Dec 2018 15:08

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 97 Resp: 1690

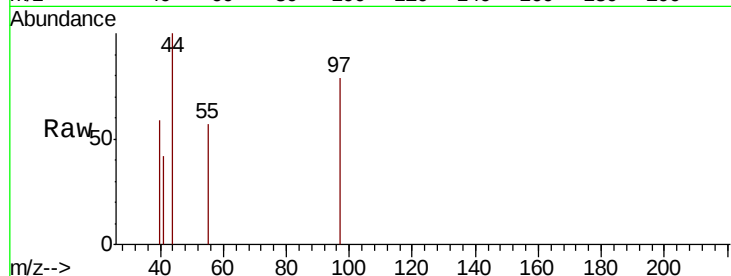
Ion Ratio Lower Upper

97 100

83 0.0 67.2 100.8#

85 0.0 44.5 66.7#

99 0.0 49.3 73.9#

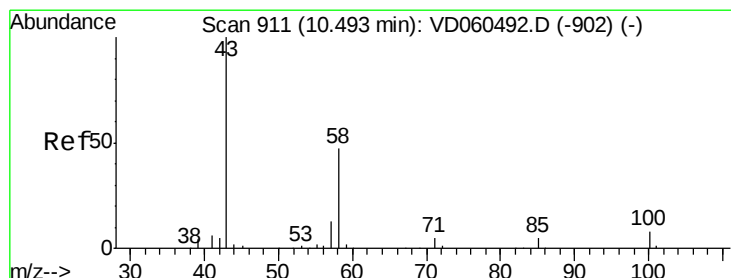
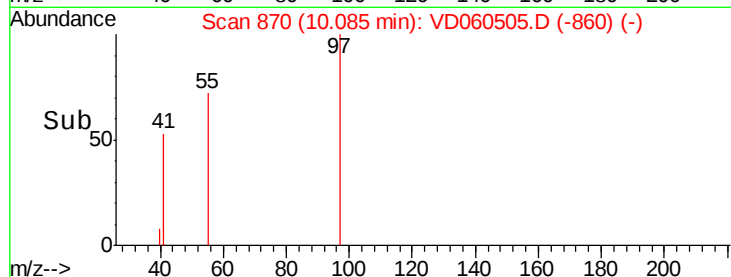
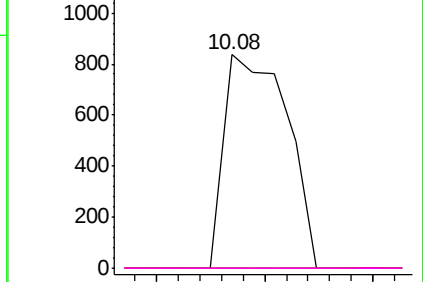


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#59

2-Hexanone

Concen: 1.692 ug/l

RT: 10.44 min Scan# 906

Delta R.T. -0.05 min

Lab File: VD060505.D

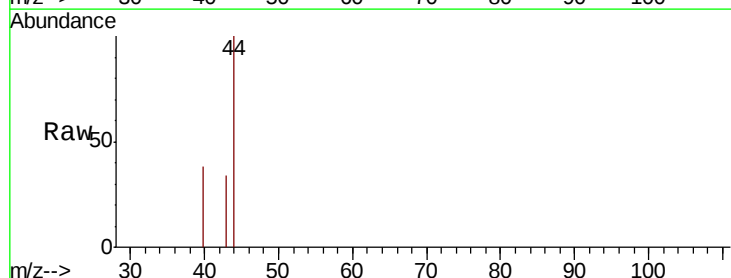
Acq: 6 Dec 2018 15:08

Tgt Ion: 43 Resp: 294

Ion Ratio Lower Upper

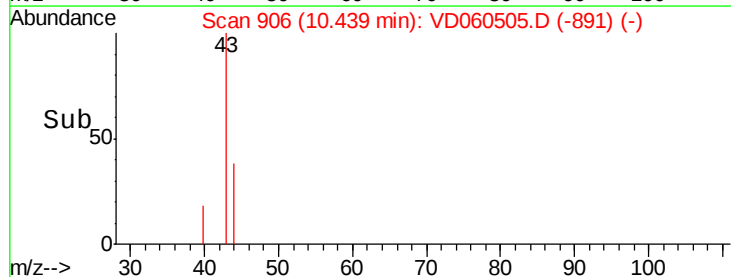
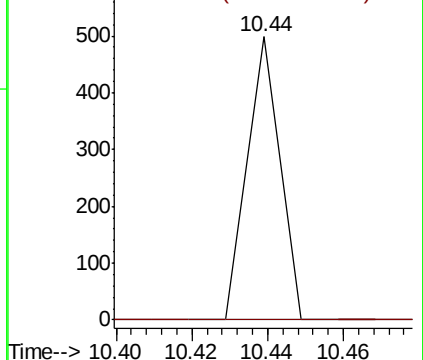
43 100

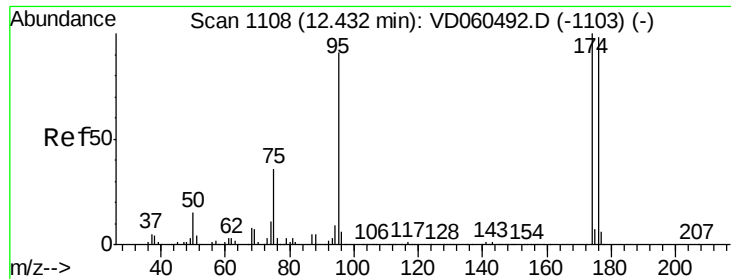
58 0.0 23.4 70.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.42 min Scan# 1107

Delta R.T. -0.02 min

Lab File: VD060505.D

Acq: 6 Dec 2018 15:08

Instrument :

MSVOA_D

ClientSampleId :

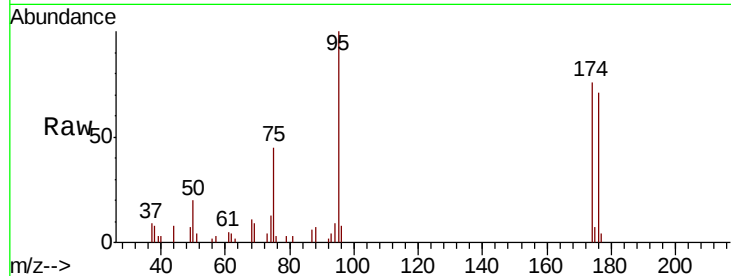
Tot Ion: 95 Resp: 24408

Ion Ratio Lower Upper

95 100

174 75.9 0.0 219.4

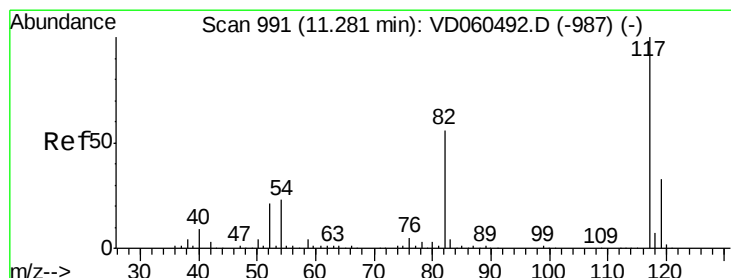
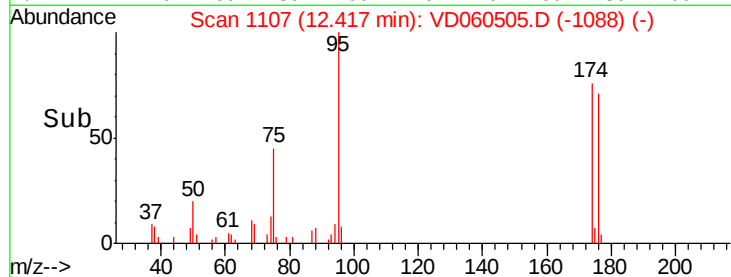
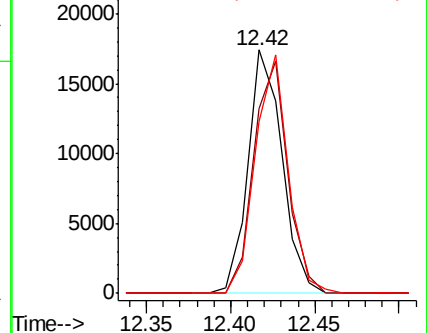
176 70.7 0.0 214.6



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.28 min Scan# 991

Delta R.T. -0.01 min

Lab File: VD060505.D

Acq: 6 Dec 2018 15:08

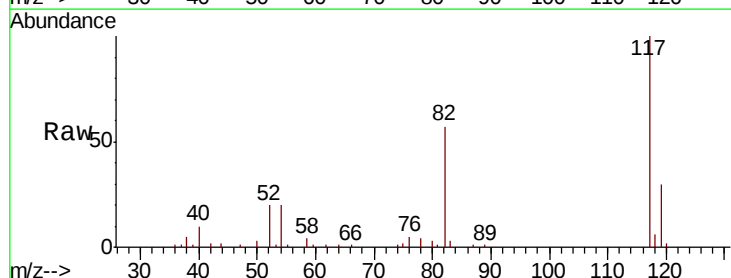
Tgt Ion: 117 Resp: 66666

Ion Ratio Lower Upper

117 100

82 56.9 45.2 67.8

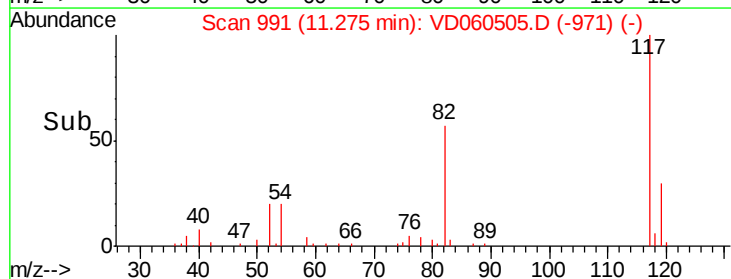
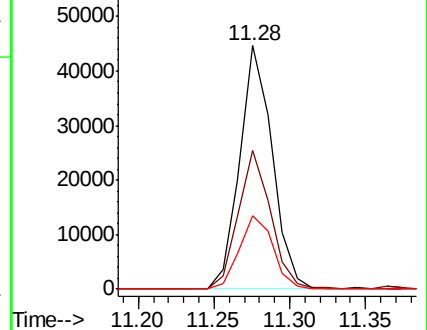
119 30.0 26.1 39.1

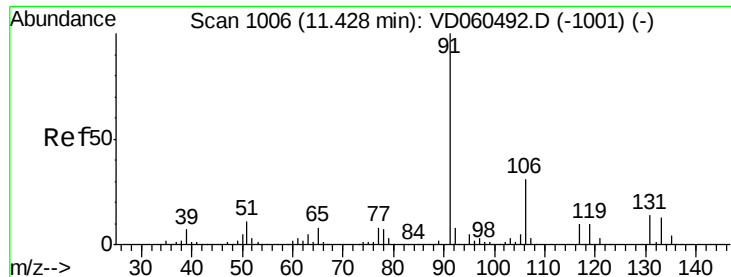


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

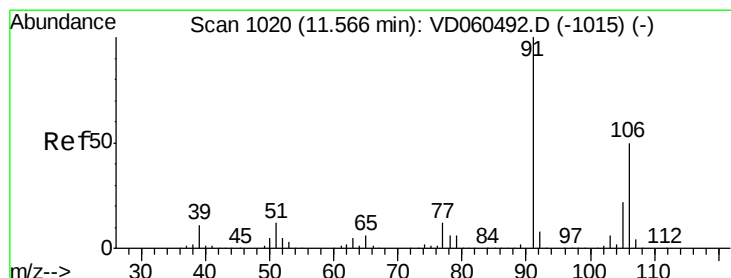
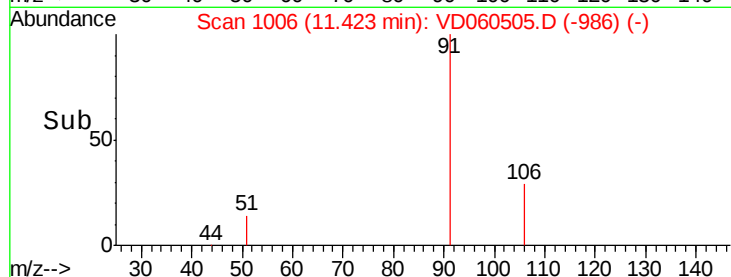
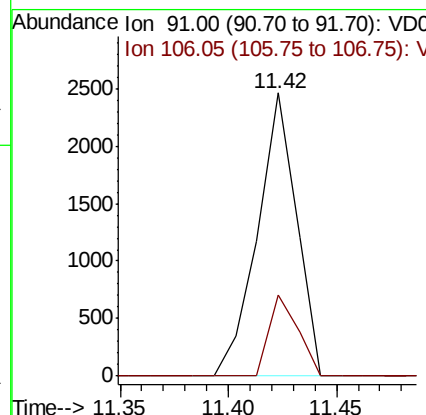
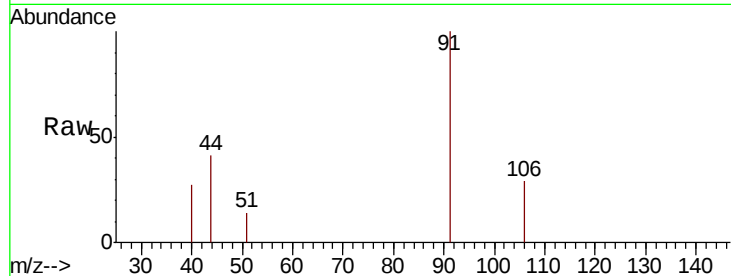




#67
Ethyl Benzene
Concen: 1.272 ug/l
RT: 11.42 min Scan# 1006
Delta R.T. -0.01 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

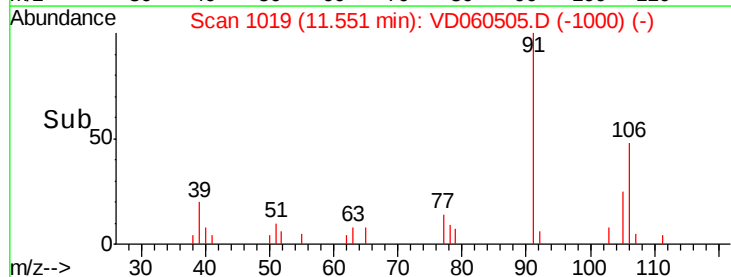
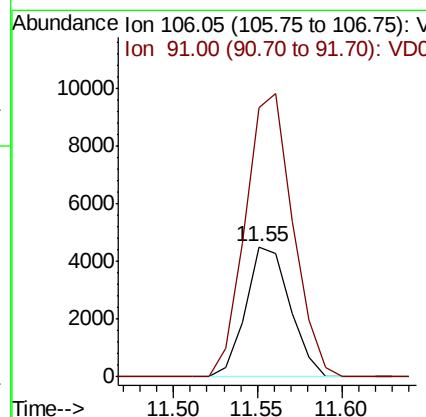
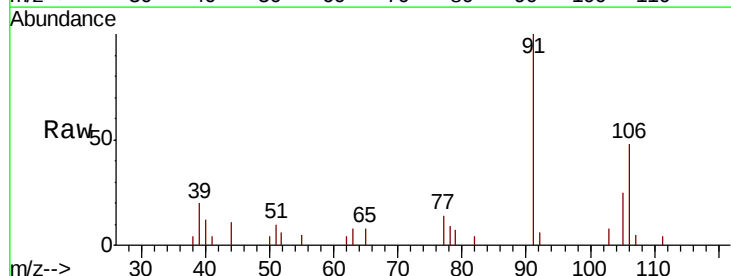
Instrument :
MSVOA_D
ClientSampled :

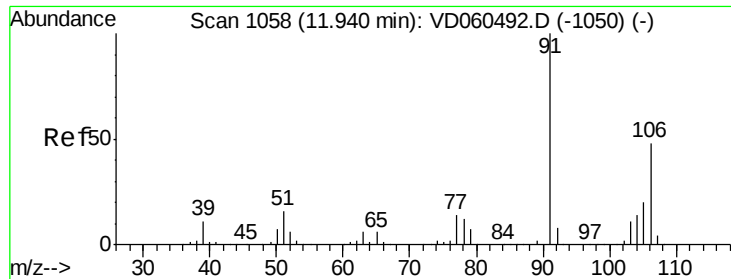
Tot Ion: 91 Resp: 3060
Ion Ratio Lower Upper
91 100
106 28.7 24.6 37.0



#68
m/p-Xylenes
Concen: 9.221 ug/l
RT: 11.55 min Scan# 1019
Delta R.T. -0.02 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

Tgt Ion: 106 Resp: 8207
Ion Ratio Lower Upper
106 100
91 206.8 160.5 240.7

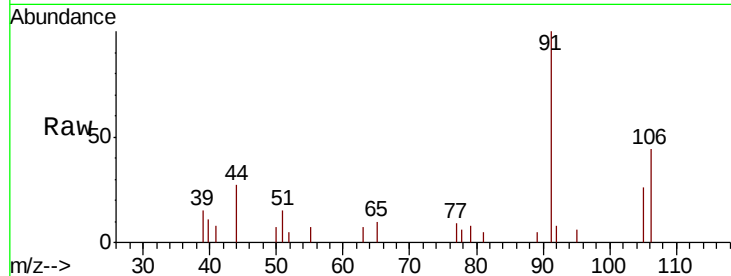




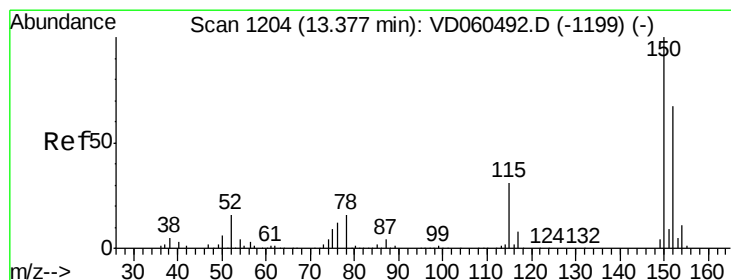
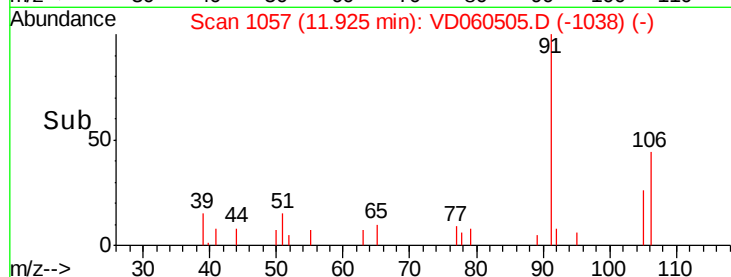
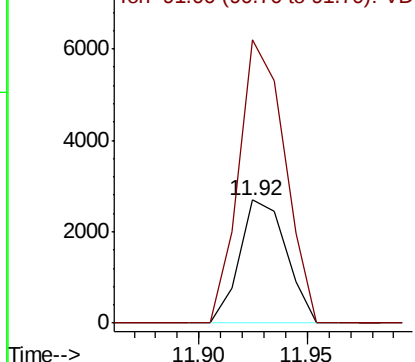
#69
o-Xylene
Concen: 4.749 ug/l
RT: 11.92 min Scan# 1057
Delta R.T. -0.02 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

Instrument :
MSVOA_D
ClientSampleID :

Tot Ion:106 Resp: 4028
Ion Ratio Lower Upper
106 100
91 229.7 103.4 310.1

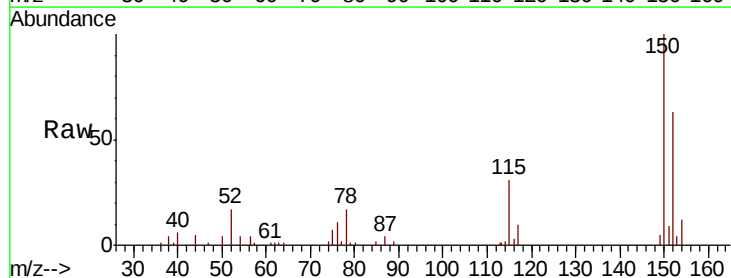


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

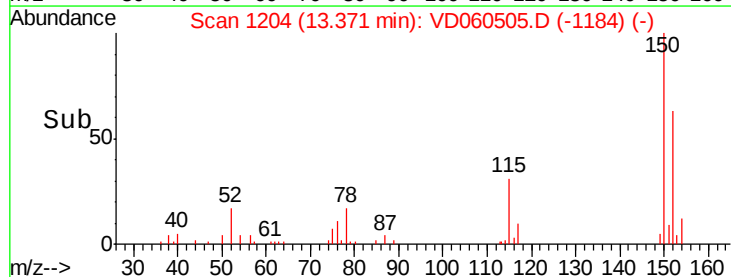
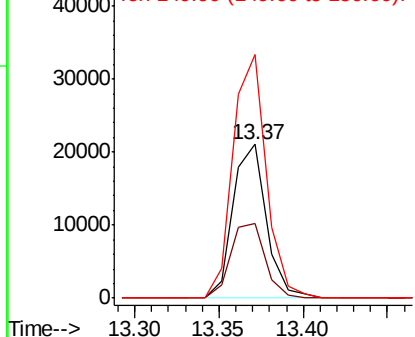


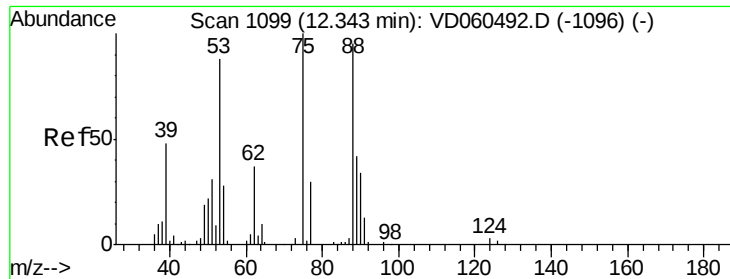
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.37 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

Tgt Ion:152 Resp: 28912
Ion Ratio Lower Upper
152 100
115 48.7 24.6 74.0
150 158.2 0.0 309.0



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

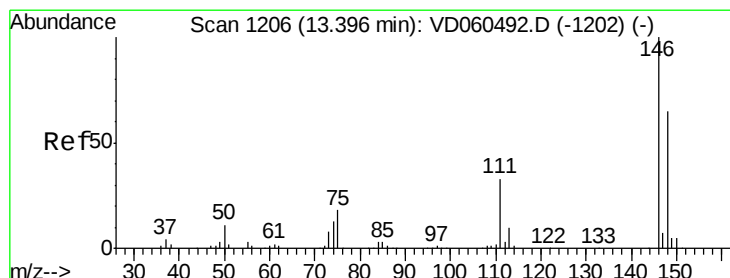
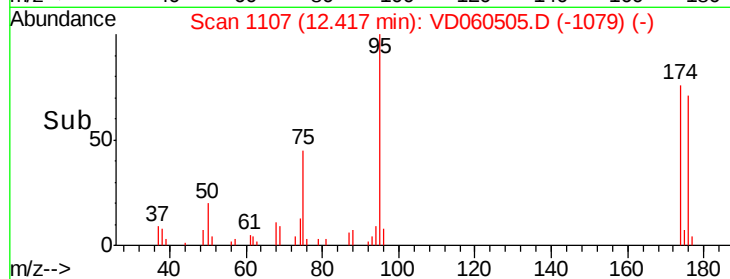
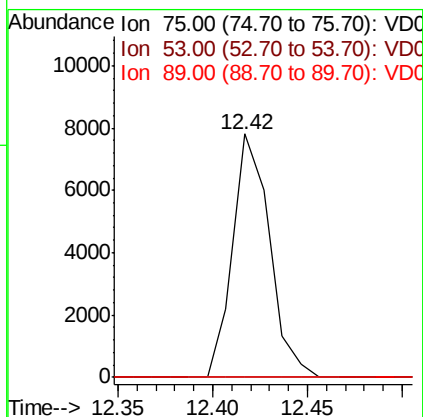
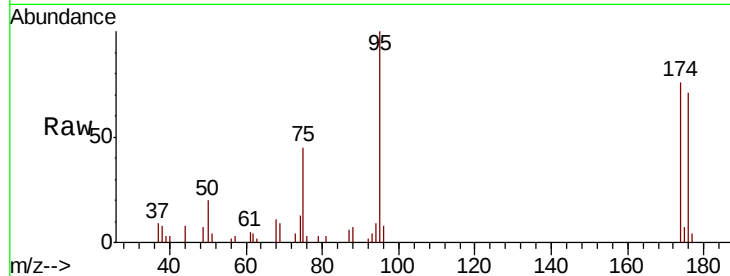




#81
trans-1,4-Dichloro-2-butene
Concen: 114.692 ug/l
RT: 12.42 min Scan# 1107
Delta R.T. 0.07 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

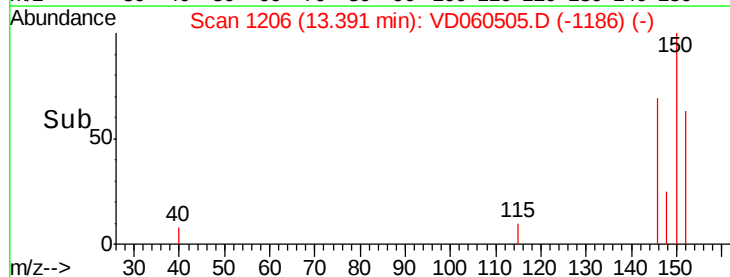
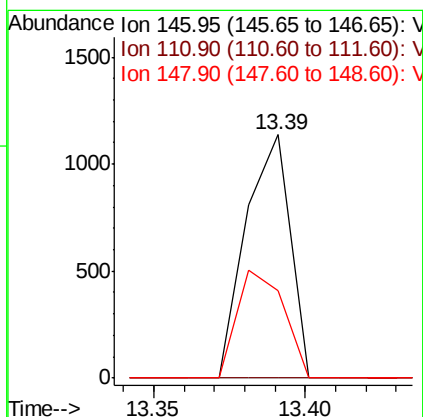
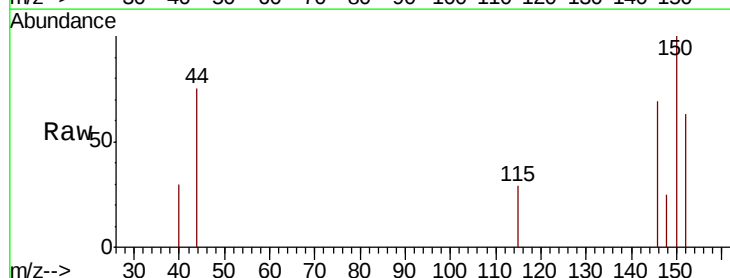
Instrument :
MSVOA_D
ClientSampled :

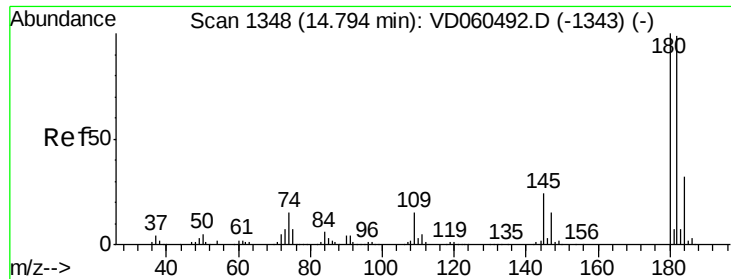
Tot Ion	75	Resp	10479
Ion Ratio	Lower	Upper	
75	100		
53	0.0	70.5	105.7#
89	0.0	33.6	50.4#



#88
1,4-Dichlorobenzene
Concen: 1.204 ug/l
RT: 13.39 min Scan# 1206
Delta R.T. -0.01 min
Lab File: VD060505.D
Acq: 6 Dec 2018 15:08

Tgt Ion	146	Resp	1150
Ion Ratio	Lower	Upper	
146	100		
111	0.0	16.4	49.1#
148	35.9	32.6	98.0

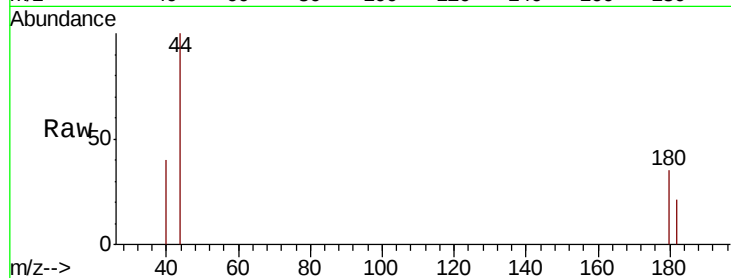




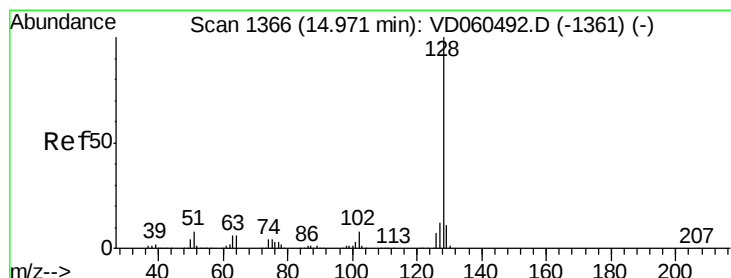
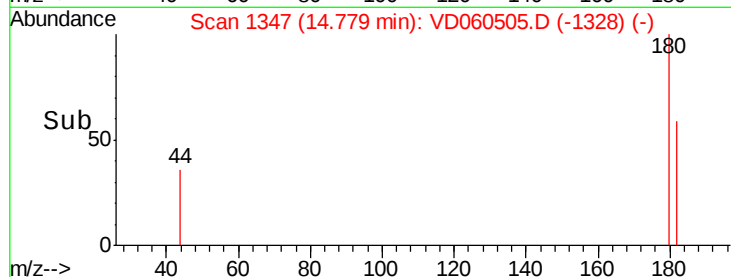
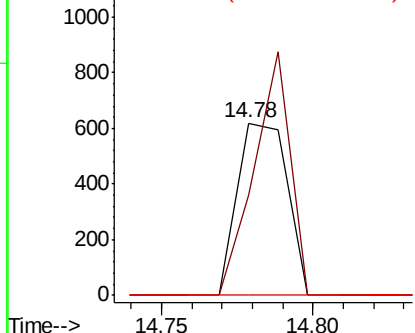
#93
 1,2,4-Trichlorobenzene
 Concen: 1.153 ug/l
 RT: 14.78 min Scan# 1347
 Delta R.T. -0.02 min
 Lab File: VD060505.D
 Acq: 6 Dec 2018 15:08

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:180 Resp: 717
 Ion Ratio Lower Upper
 180 100
 182 58.6 49.4 148.0
 145 0.0 11.9 35.9#

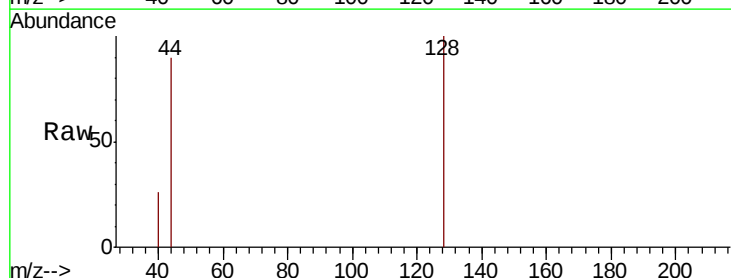


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V



#95
 Naphthalene
 Concen: 2.122 ug/l
 RT: 14.97 min Scan# 1366
 Delta R.T. -0.01 min
 Lab File: VD060505.D
 Acq: 6 Dec 2018 15:08

Tgt Ion:128 Resp: 1570
 Ion Ratio Lower Upper
 128 100
 127 0.0 9.8 14.8#
 129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

