

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120318\
 Data File : VD060470.D
 Acq On : 3 Dec 2018 12:41
 Operator : VA/AP
 Sample : J6162-09
 Misc : 6.36g/5ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 A0C10-02A-(6-12)

Quant Time: Dec 04 02:21:18 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	6.43	168	1127031	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.47	114	1614567	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.30	117	1139472	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.38	152	373766	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.81	65	420991	52.17	ug/l	0.00
Spiked Amount			Recovery	=	104.34%	
35) Dibromofluoromethane	6.35	113	575928	47.84	ug/l	0.00
Spiked Amount			Recovery	=	95.68%	
50) Toluene-d8	9.47	98	1368469	38.84	ug/l	0.00
Spiked Amount			Recovery	=	77.68%	
62) 4-Bromofluorobenzene	12.44	95	417693	32.71	ug/l	0.00
Spiked Amount			Recovery	=	65.42%	

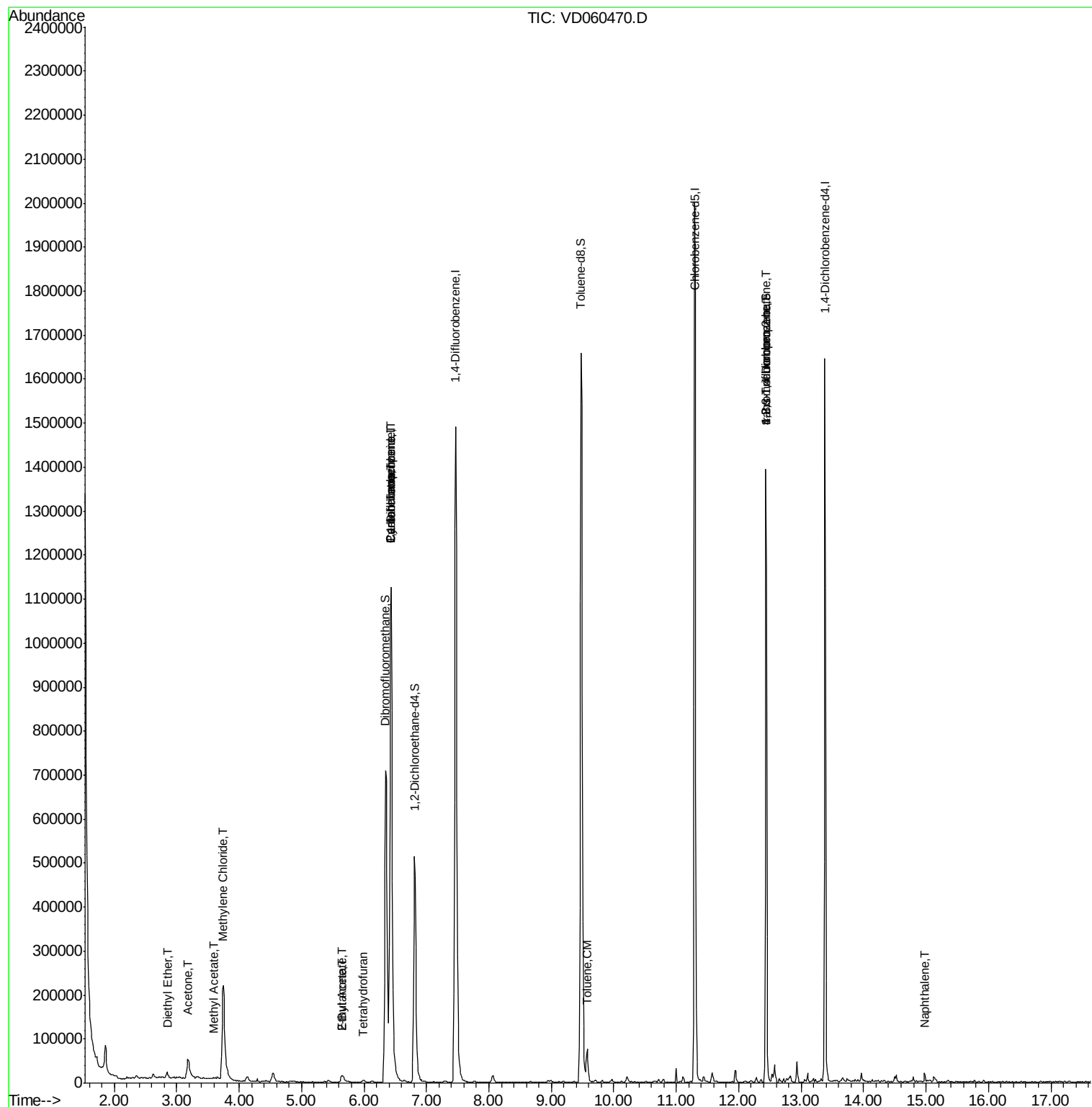
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.59	85	1249	Below Cal	#	41
8) Diethyl Ether	2.84	74	4545	2.442	ug/l	81
16) Acetone	3.18	43	103250	73.762	ug/l	97
18) Methyl Acetate	3.59	43	6348	2.127	ug/l #	63
20) Methylene Chloride	3.75	84	146648	11.810	ug/l	96
25) 2-Butanone	5.65	43	34138	11.733	ug/l	99
29) Tetrahydrofuran	5.98	42	3593	2.342	ug/l #	69
31) Cyclohexane	6.43	56	24314	1.262	ug/l #	1
36) 1,1-Dichloropropene	6.43	75	76008	4.765	ug/l #	45
37) Ethyl Acetate	5.65	43	34137	4.651	ug/l #	69
38) Carbon Tetrachloride	6.43	117	87259	5.897	ug/l #	17
52) Toluene	9.57	92	37343	1.436	ug/l	94
76) 1,2,3-Trichloropropane	12.44	75	134018	29.974	ug/l #	45
81) trans-1,4-Dichloro-2-buten	12.44	75	163900	128.759	ug/l #	15
89) n-Butylbenzene	13.66	91	3212	Below Cal		89
95) Naphthalene	14.98	128	13951	1.363	ug/l	97

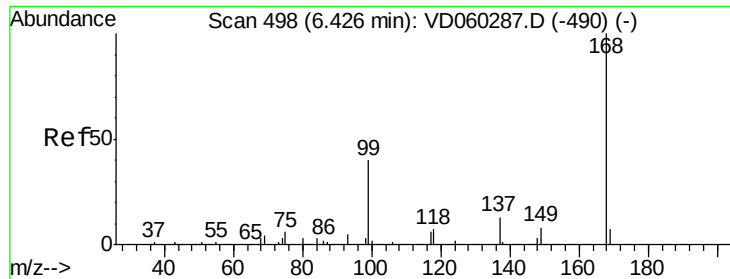
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.43 min Scan# 499

Delta R.T. 0.01 min

Lab File: VD060470.D

Acq: 3 Dec 2018 12:41

Instrument :

MSVOA_D

ClientSampleId :

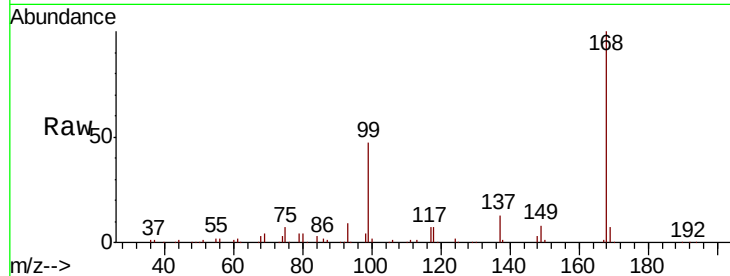
A0C10-02A-(6-12)

Tot Ion:168 Resp: 1127031

Ion Ratio Lower Upper

168 100

99 46.7 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.43

400000

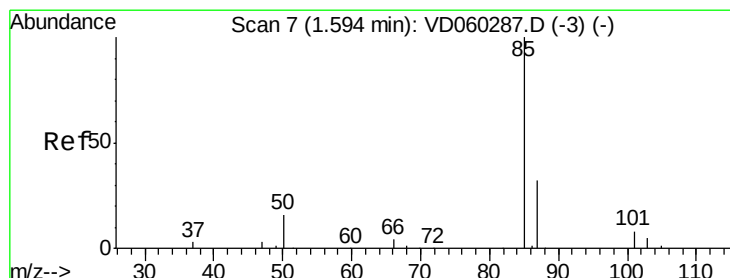
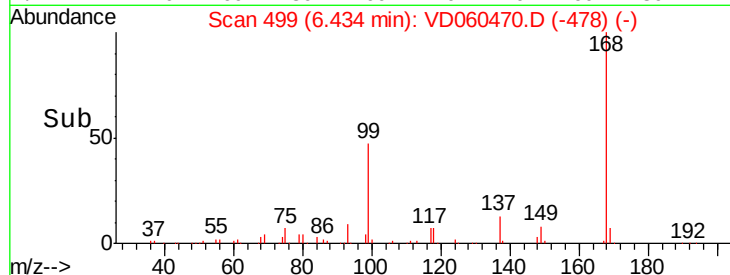
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.59 min Scan# 7

Delta R.T. -0.00 min

Lab File: VD060470.D

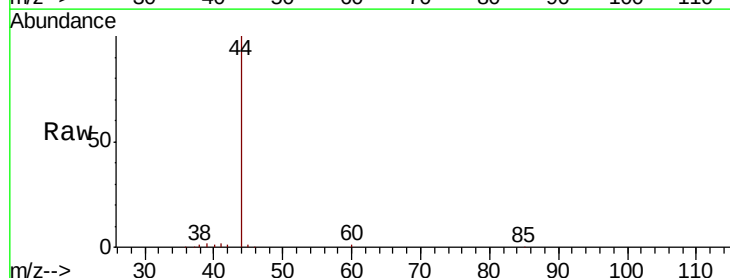
Acq: 3 Dec 2018 12:41

Tgt Ion: 85 Resp: 1249

Ion Ratio Lower Upper

85 100

87 0.0 16.8 50.4#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.59

800

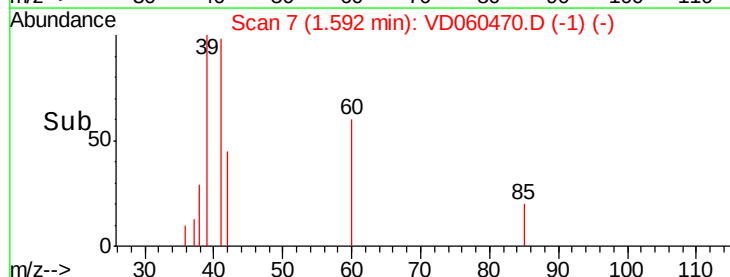
600

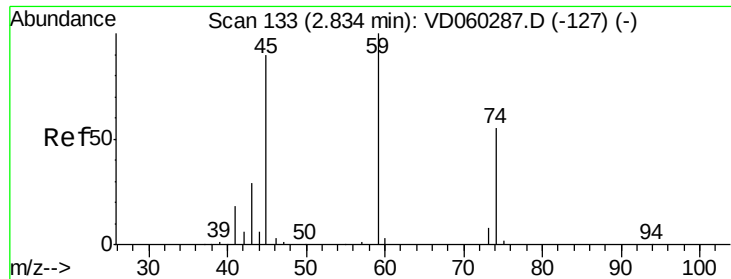
400

200

0

Time-->





#8

Diethyl Ether

Concen: 2.442 ug/l

RT: 2.84 min Scan# 134

Delta R.T. 0.01 min

Lab File: VD060470.D

Acq: 3 Dec 2018 12:41

Instrument :

MSVOA_D

ClientSampleId :

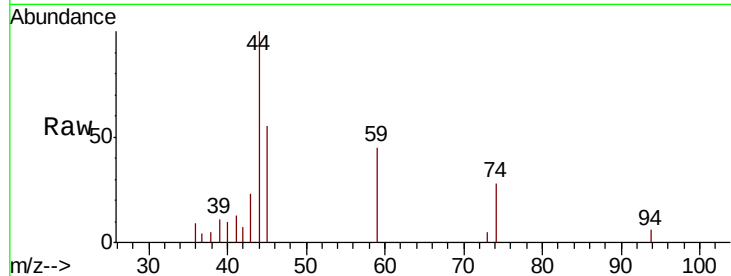
A0C10-02A-(6-12)

Tot Ion: 74 Resp: 4545

Ion Ratio Lower Upper

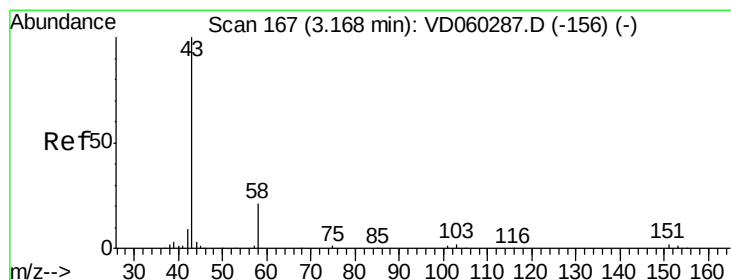
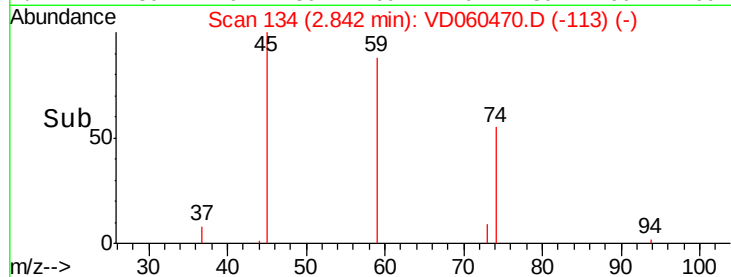
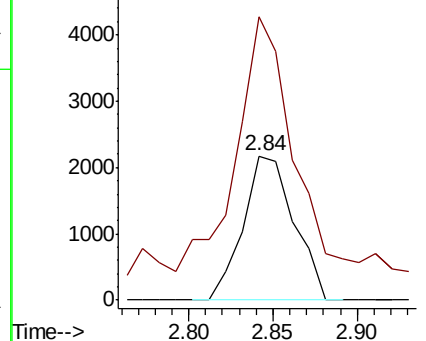
74 100

45 196.0 84.8 254.4



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#16

Acetone

Concen: 73.762 ug/l

RT: 3.18 min Scan# 168

Delta R.T. 0.01 min

Lab File: VD060470.D

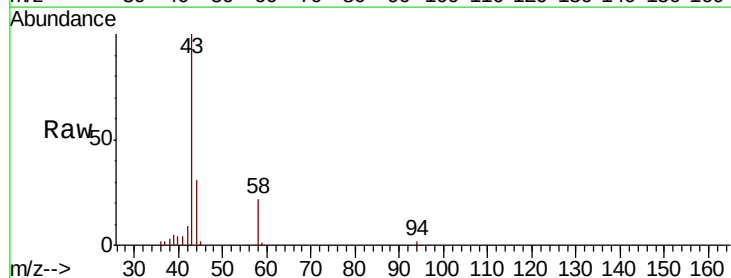
Acq: 3 Dec 2018 12:41

Tgt Ion: 43 Resp: 103250

Ion Ratio Lower Upper

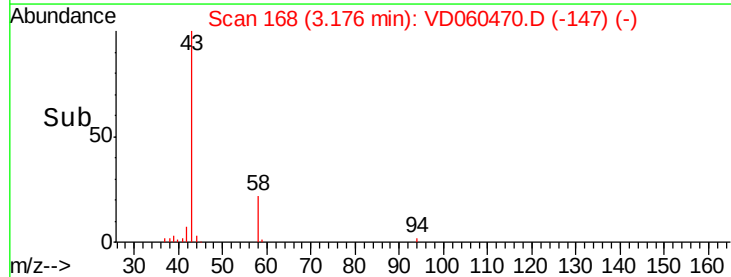
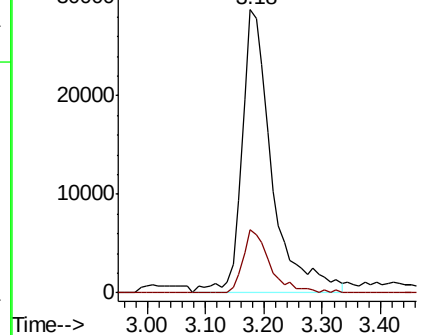
43 100

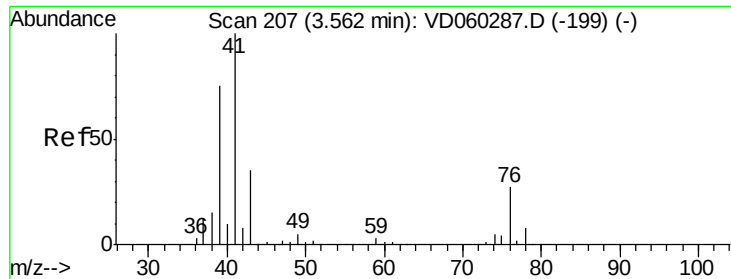
58 22.4 16.9 25.3



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

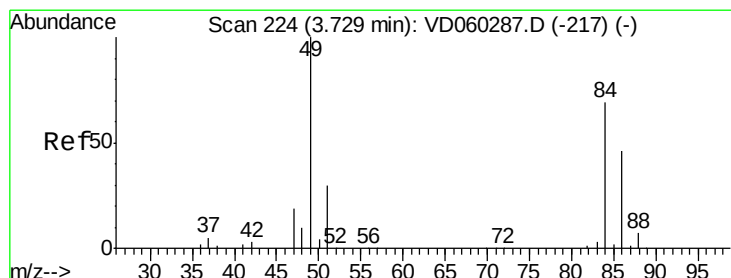
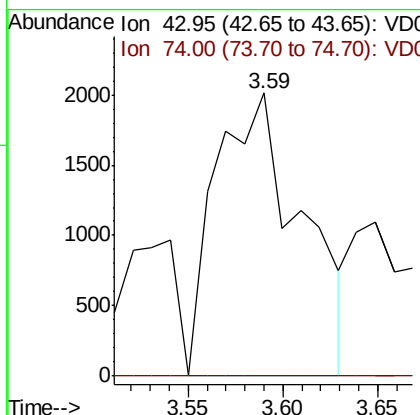
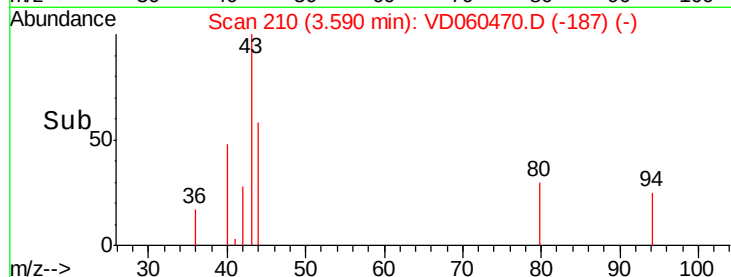
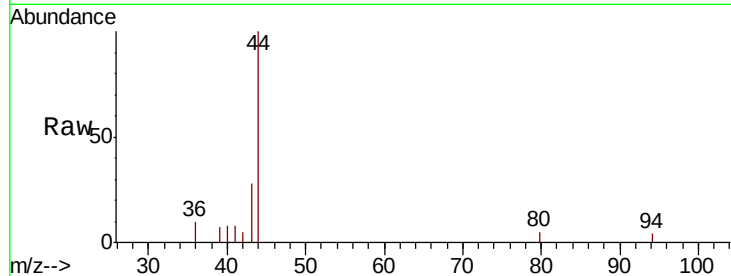




#18
Methyl Acetate
Concen: 2.127 ug/l
RT: 3.59 min Scan# 210
Delta R.T. 0.03 min
Lab File: VD060470.D
Acq: 3 Dec 2018 12:41

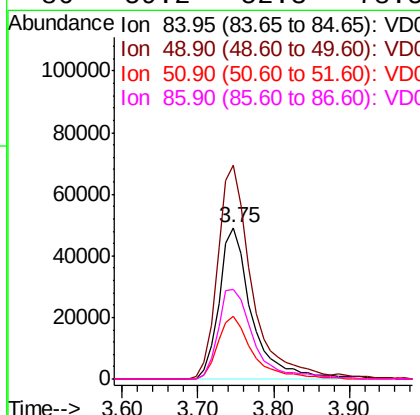
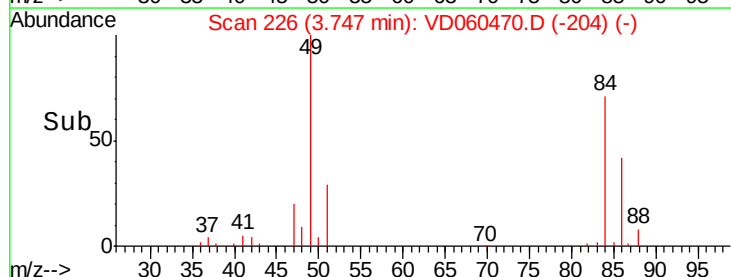
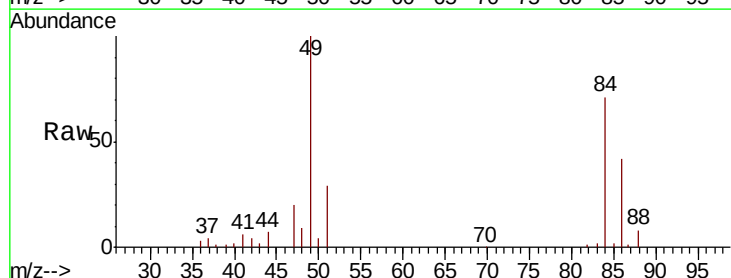
Instrument :
MSVOA_D
ClientSampleId :
A0C10-02A-(6-12)

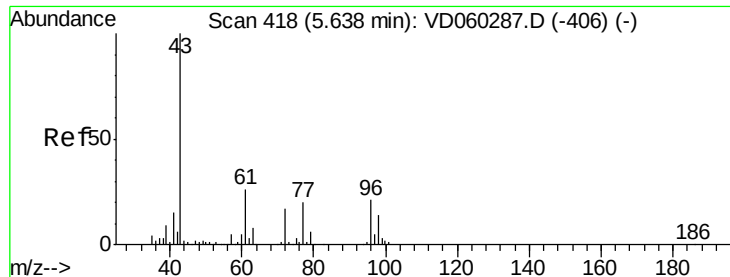
Tot Ion: 43 Resp: 6348
Ion Ratio Lower Upper
43 100
74 0.0 12.4 18.6#



#20
Methylene Chloride
Concen: 11.810 ug/l
RT: 3.75 min Scan# 226
Delta R.T. 0.02 min
Lab File: VD060470.D
Acq: 3 Dec 2018 12:41

Tgt Ion: 84 Resp: 146648
Ion Ratio Lower Upper
84 100
49 141.0 115.6 173.4
51 41.6 35.6 53.4
86 59.2 52.3 78.5





#25

2-Butanone

Concen: 11.733 ug/l

RT: 5.65 min Scan# 419

Delta R.T. 0.01 min

Lab File: VD060470.D

Acq: 3 Dec 2018 12:41

Instrument :

MSVOA_D

ClientSampleId :

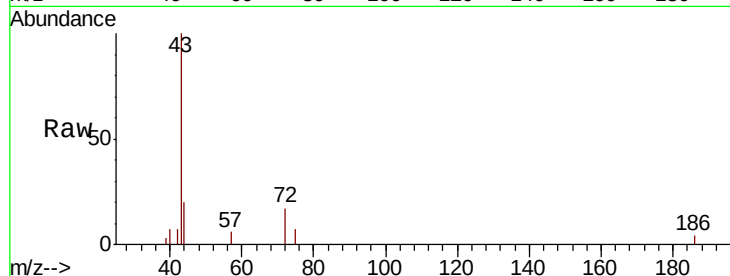
A0C10-02A-(6-12)

Tot Ion: 43 Resp: 34138

Ion Ratio Lower Upper

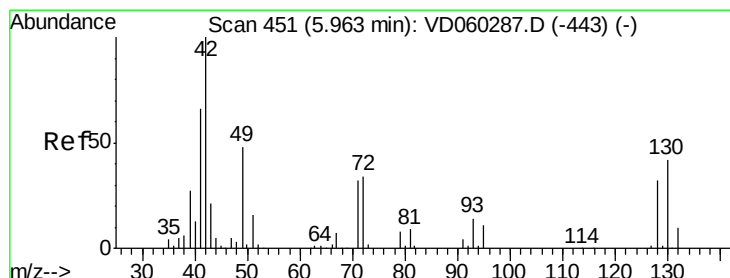
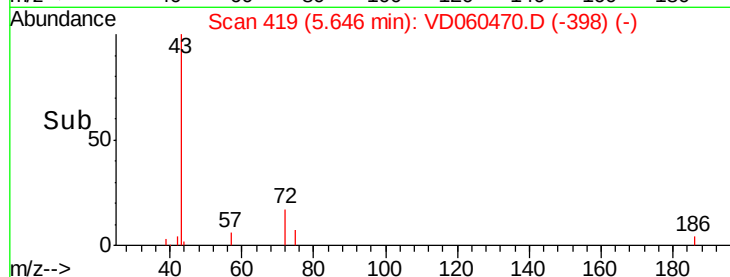
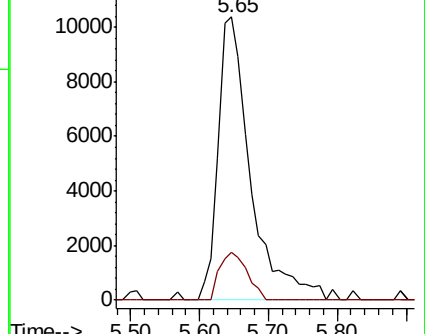
43 100

72 16.7 13.8 20.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 2.342 ug/l

RT: 5.98 min Scan# 453

Delta R.T. 0.02 min

Lab File: VD060470.D

Acq: 3 Dec 2018 12:41

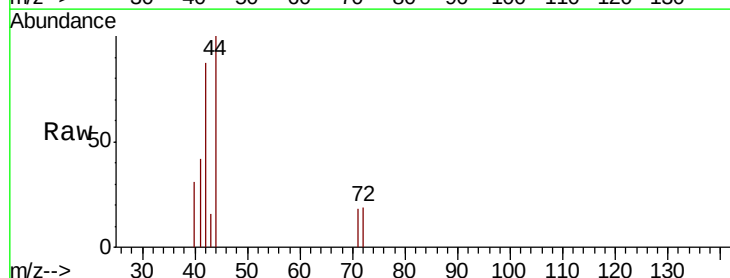
Tgt Ion: 42 Resp: 3593

Ion Ratio Lower Upper

42 100

72 19.4 27.6 41.4#

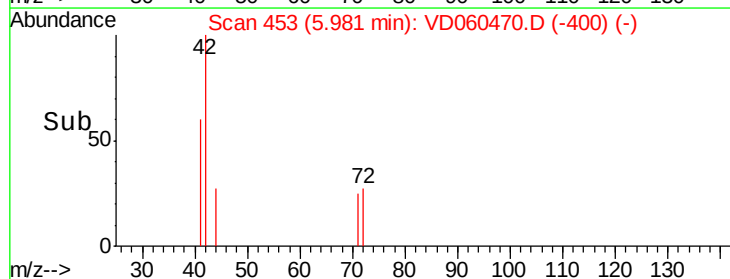
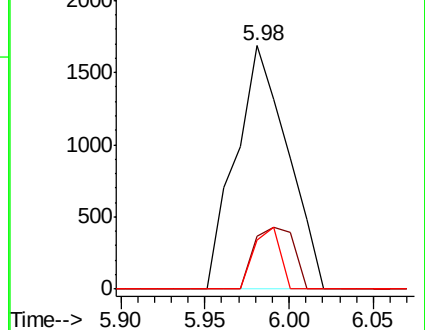
71 12.7 26.5 39.7#

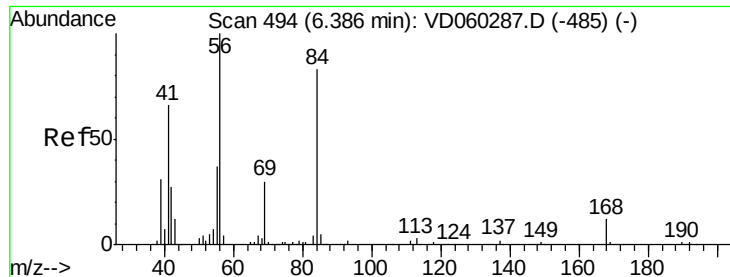


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#31

Cyclohexane

Concen: 1.262 ug/l

RT: 6.43 min Scan# 499

Delta R.T. 0.05 min

Lab File: VD060470.D

Acq: 3 Dec 2018 12:41

Instrument :

MSVOA_D

ClientSampleId :

A0C10-02A-(6-12)

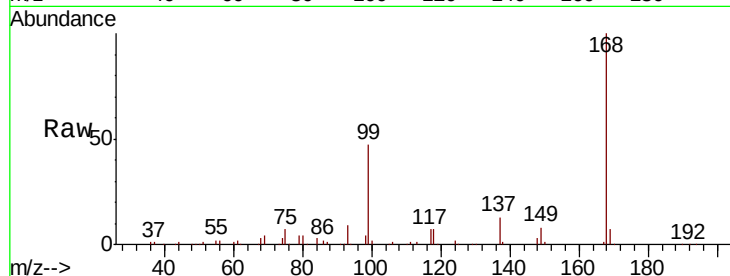
Tot Ion: 56 Resp: 24314

Ion Ratio Lower Upper

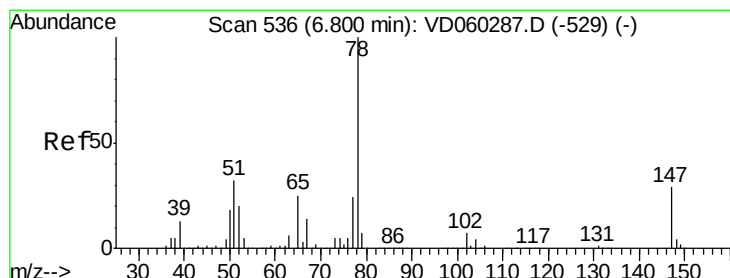
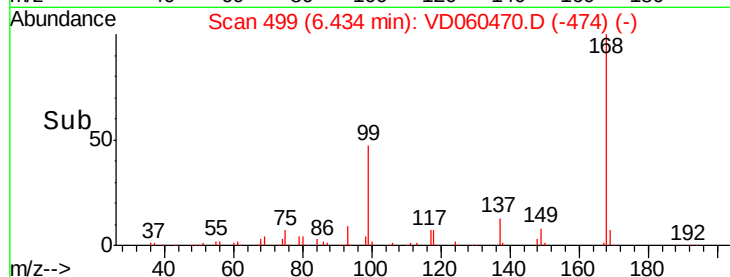
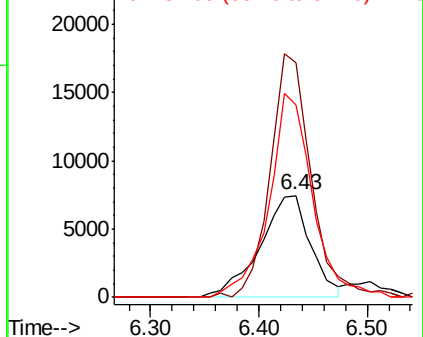
56 100

69 230.5 22.2 33.2#

84 188.3 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



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.81 min Scan# 537

Delta R.T. 0.01 min

Lab File: VD060470.D

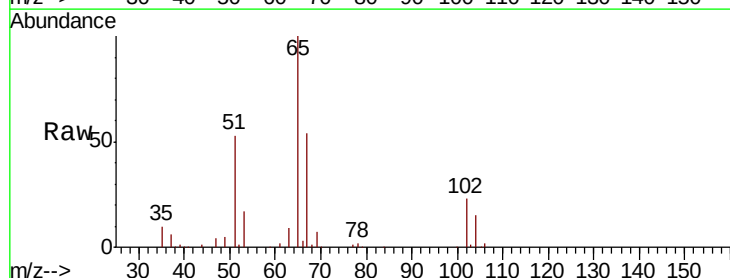
Acq: 3 Dec 2018 12:41

Tgt Ion: 65 Resp: 420991

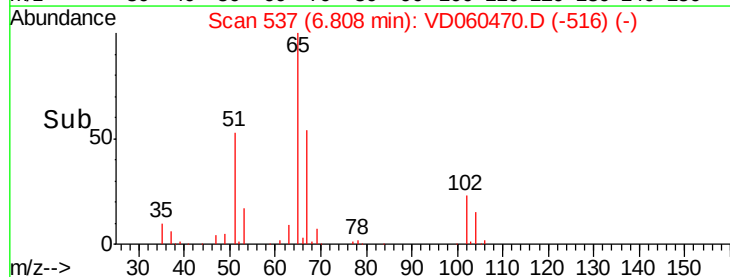
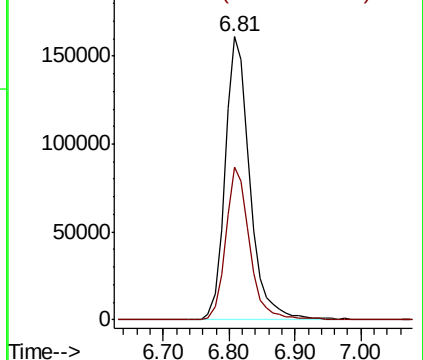
Ion Ratio Lower Upper

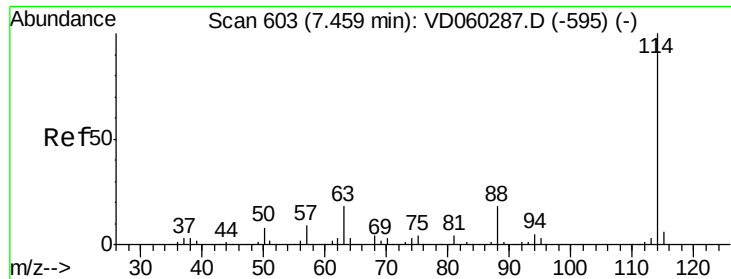
65 100

67 53.9 0.0 109.8



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

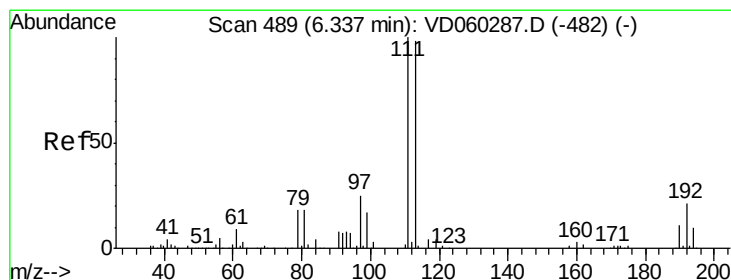
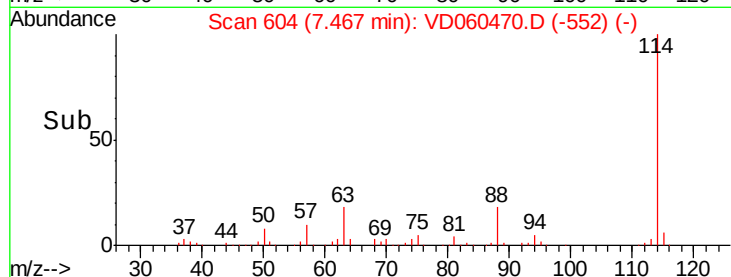
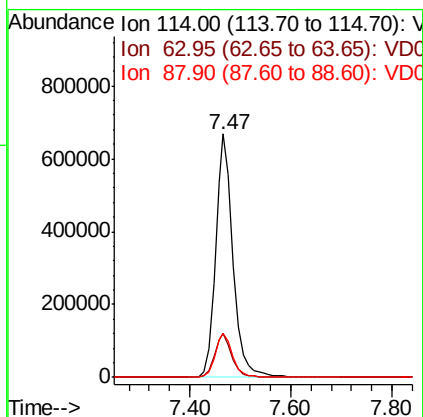
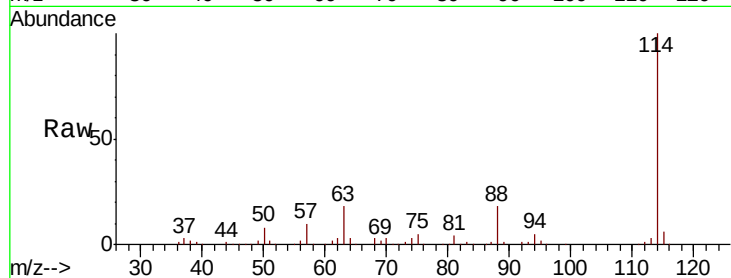




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.47 min Scan# 604
 Delta R.T. 0.01 min
 Lab File: VD060470.D
 Acq: 3 Dec 2018 12:41

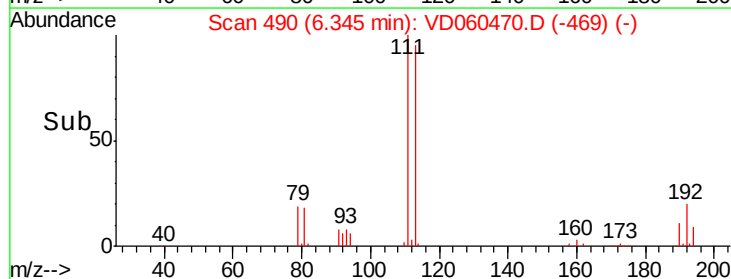
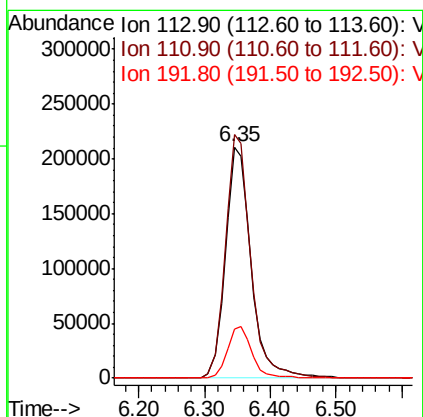
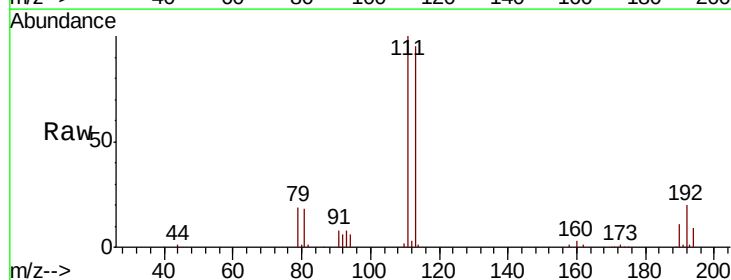
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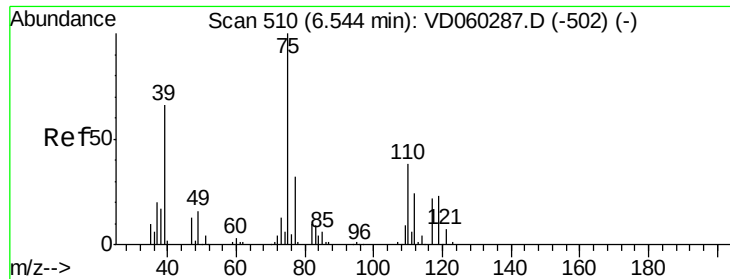
Tot Ion:114 Resp: 1614567
 Ion Ratio Lower Upper
 114 100
 63 17.9 0.0 34.0
 88 18.2 0.0 35.4



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.35 min Scan# 490
 Delta R.T. 0.01 min
 Lab File: VD060470.D
 Acq: 3 Dec 2018 12:41

Tgt Ion:113 Resp: 575928
 Ion Ratio Lower Upper
 113 100
 111 105.2 81.6 122.4
 192 21.2 16.5 24.7

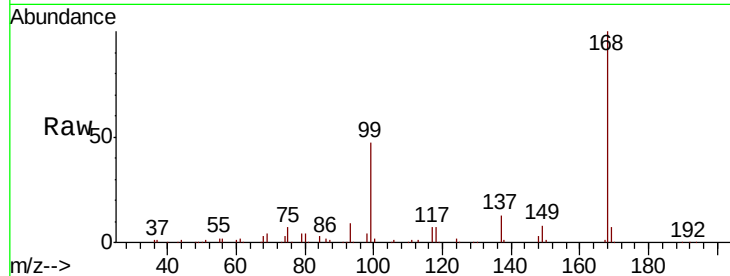




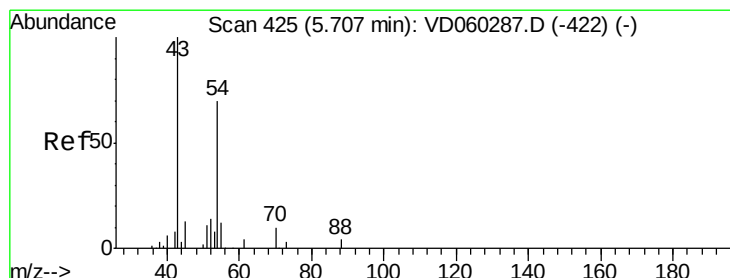
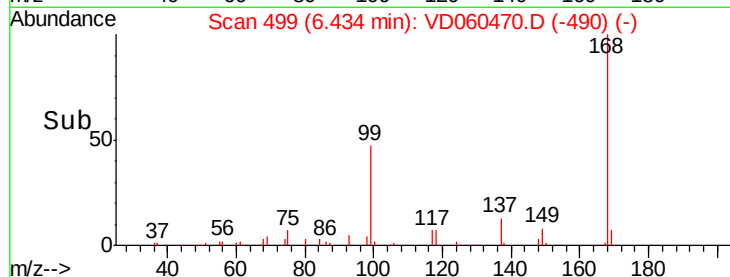
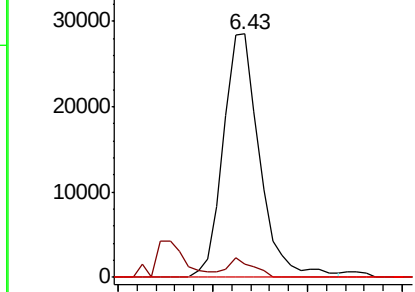
#36
 1,1-Dichloropropene
 Concen: 4.765 ug/l
 RT: 6.43 min Scan# 499
 Delta R.T. -0.11 min
 Lab File: VD060470.D
 Acq: 3 Dec 2018 12:41

Instrument :
 MSVOA_D
 ClientSampleId :
 A0C10-02A-(6-12)

Tot Ion	Ratio	Lower	Upper
75	100		
110	5.2	18.0	54.0#
77	0.0	25.6	38.4#

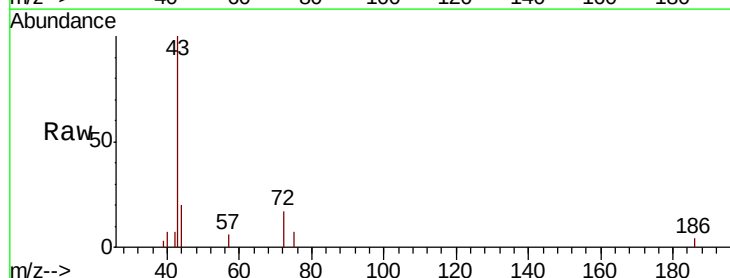


Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 109.90 (109.60 to 110.60): VDC
 Ion 76.95 (76.65 to 77.65): VDC

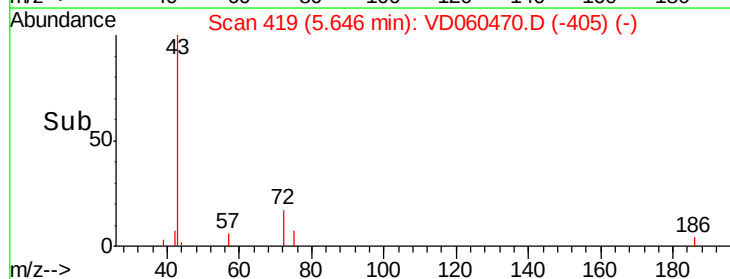
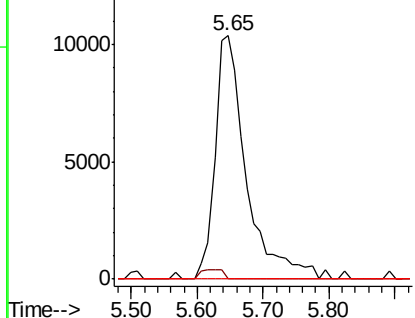


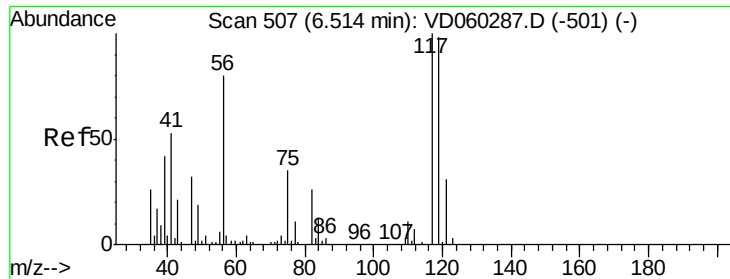
#37
 Ethyl Acetate
 Concen: 4.651 ug/l
 RT: 5.65 min Scan# 419
 Delta R.T. -0.06 min
 Lab File: VD060470.D
 Acq: 3 Dec 2018 12:41

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.8	17.6#
70	0.0	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

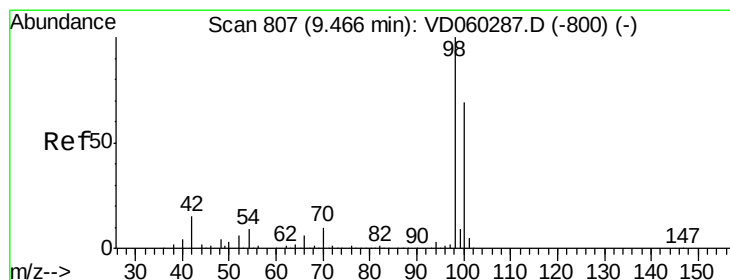
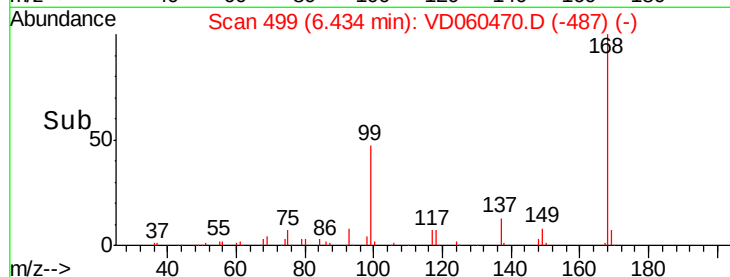
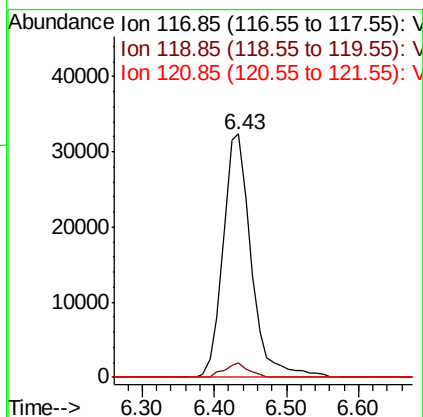
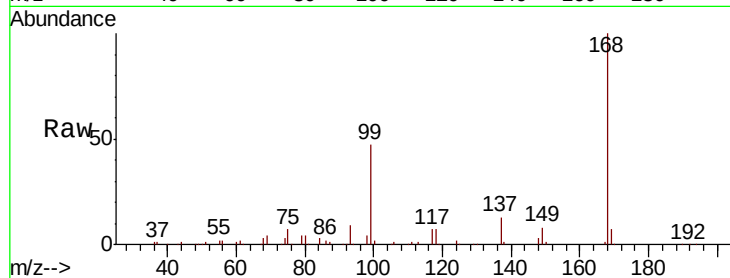




#38
Carbon Tetrachloride
Concen: 5.897 ug/l
RT: 6.43 min Scan# 499
Delta R.T. -0.08 min
Lab File: VD060470.D
Acq: 3 Dec 2018 12:41

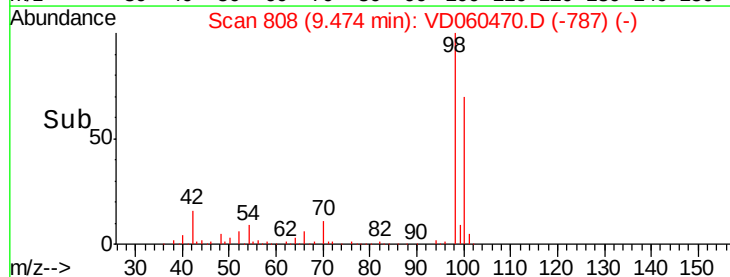
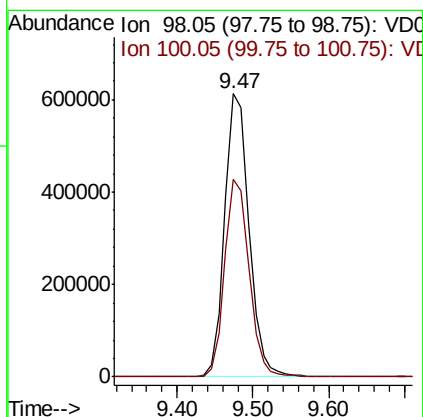
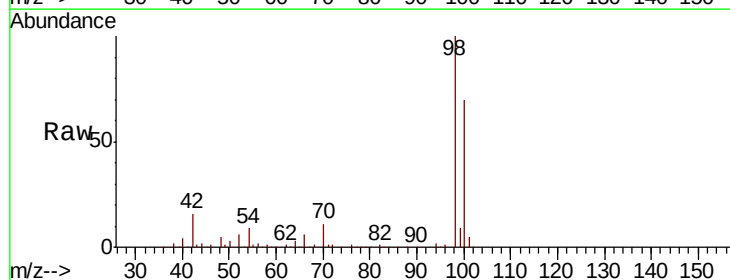
Instrument :
MSVOA_D
ClientSampleId :
A0C10-02A-(6-12)

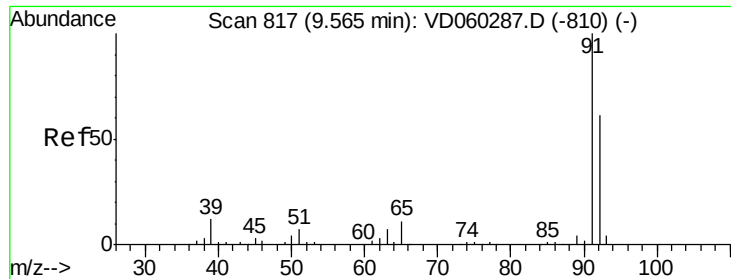
Tot Ion:117 Resp: 87259
Ion Ratio Lower Upper
117 100
119 5.9 76.6 115.0#
121 0.0 24.3 36.5#



#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.47 min Scan# 808
Delta R.T. 0.01 min
Lab File: VD060470.D
Acq: 3 Dec 2018 12:41

Tgt Ion: 98 Resp: 1368469
Ion Ratio Lower Upper
98 100
100 69.9 55.2 82.8





#52

Toluene

Concen: 1.436 ug/l

RT: 9.57 min Scan# 818

Delta R.T. 0.01 min

Lab File: VD060470.D

Acq: 3 Dec 2018 12:41

Instrument :

MSVOA_D

ClientSampleId :

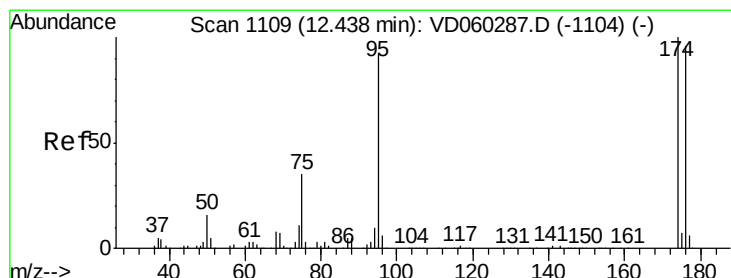
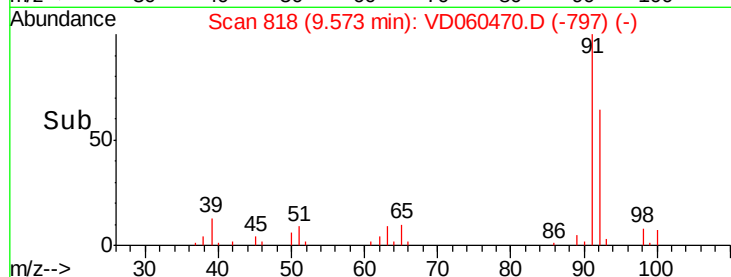
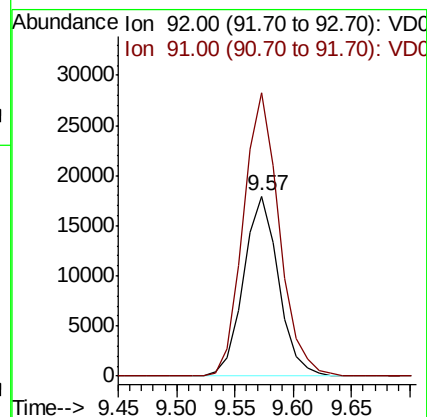
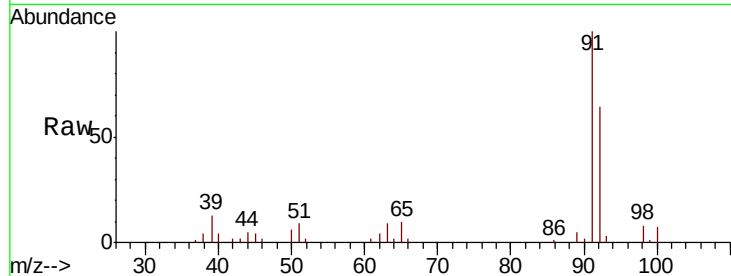
A0C10-02A-(6-12)

Tot Ion: 92 Resp: 37343

Ion Ratio Lower Upper

92 100

91 157.4 131.9 197.9



#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.44 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VD060470.D

Acq: 3 Dec 2018 12:41

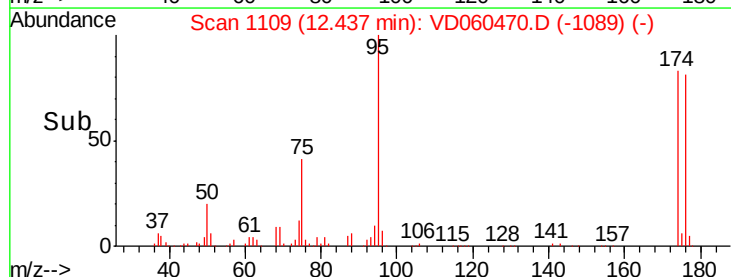
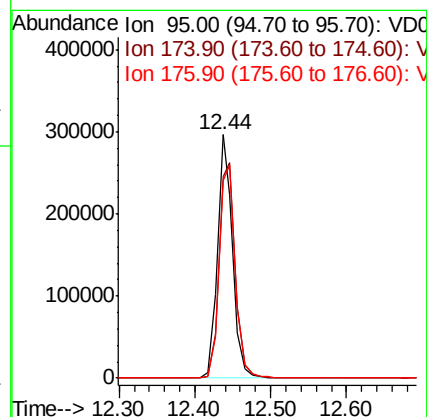
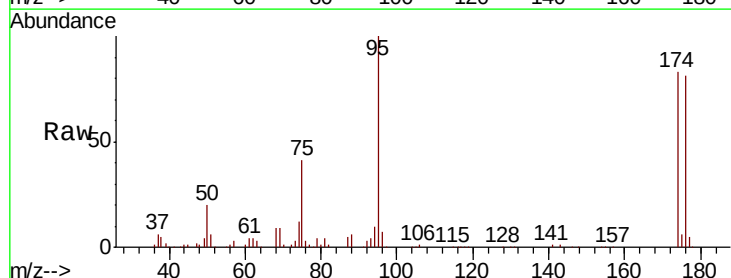
Tgt Ion: 95 Resp: 417693

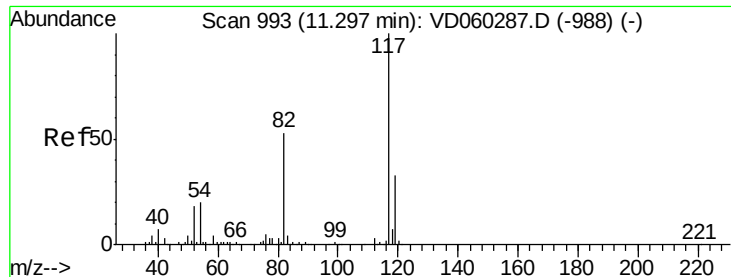
Ion Ratio Lower Upper

95 100

174 82.6 0.0 160.8

176 81.1 0.0 154.6

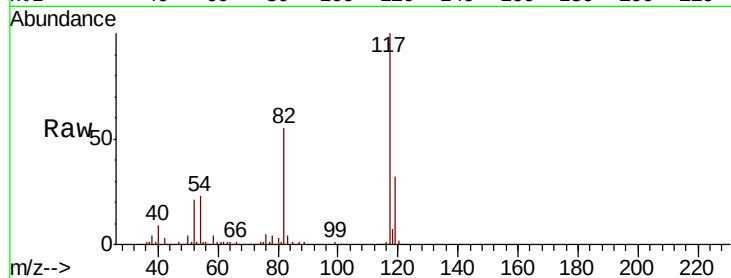




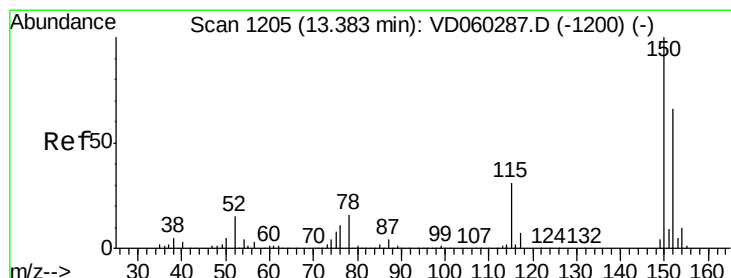
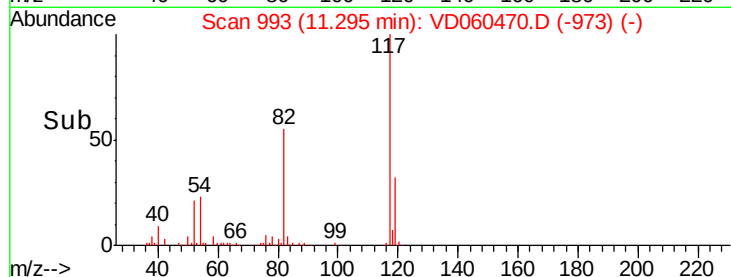
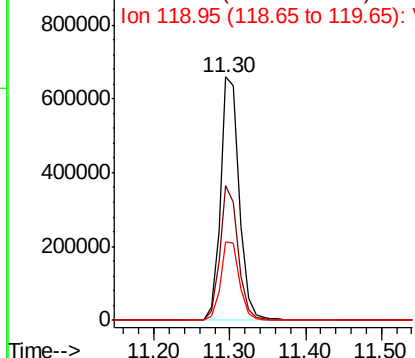
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.30 min Scan# 993
Delta R.T. -0.00 min
Lab File: VD060470.D
Acq: 3 Dec 2018 12:41

Instrument :
MSVOA_D
ClientSampleId :
A0C10-02A-(6-12)

Tot Ion:117 Resp: 1139472
Ion Ratio Lower Upper
117 100
82 55.4 43.7 65.5
119 32.2 26.1 39.1

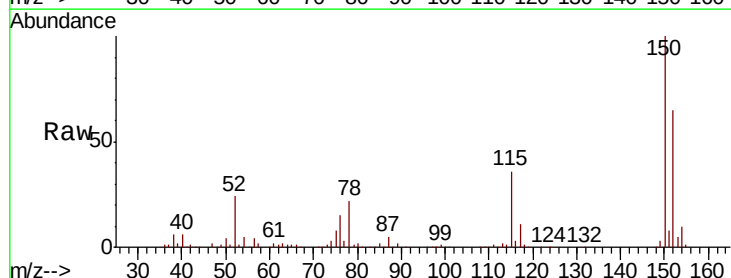


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

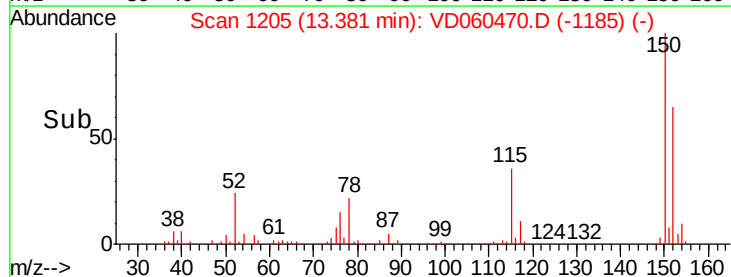
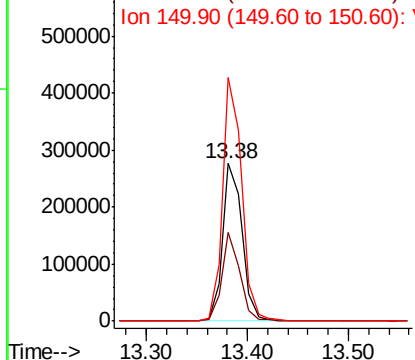


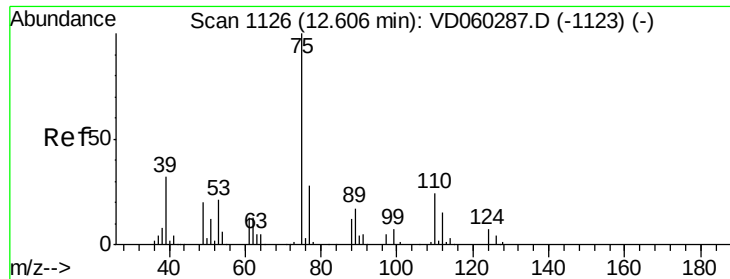
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.38 min Scan# 1205
Delta R.T. -0.00 min
Lab File: VD060470.D
Acq: 3 Dec 2018 12:41

Tgt Ion:152 Resp: 373766
Ion Ratio Lower Upper
152 100
115 56.1 24.1 72.3
150 154.8 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

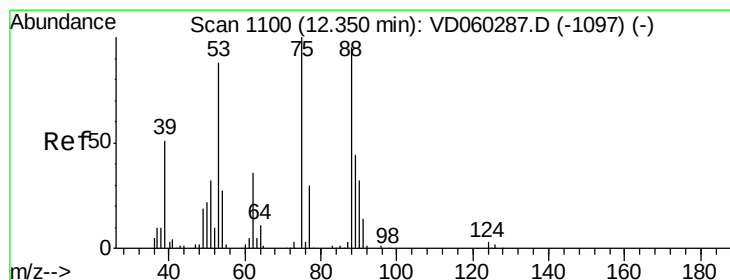
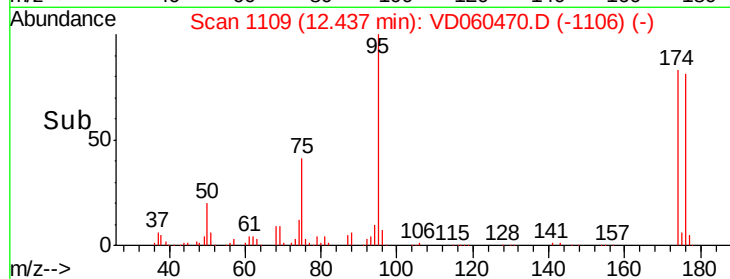
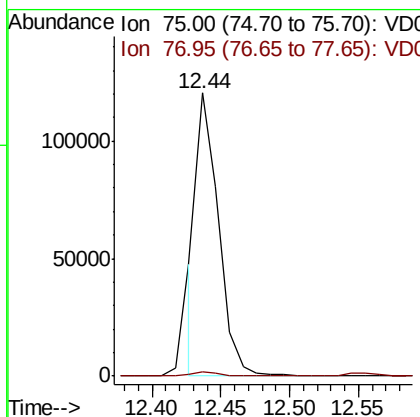
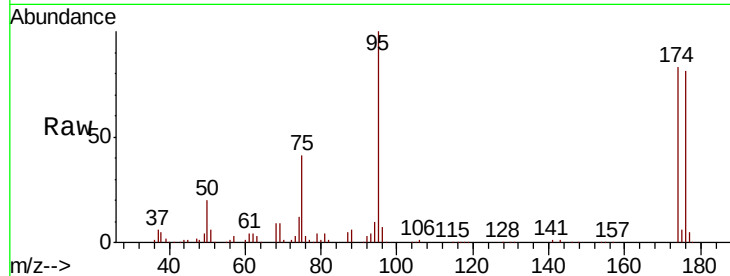




#76
 1,2,3-Trichloropropane
 Concen: 29.974 ug/l
 RT: 12.44 min Scan# 1109
 Delta R.T. -0.17 min
 Lab File: VD060470.D
 Acq: 3 Dec 2018 12:41

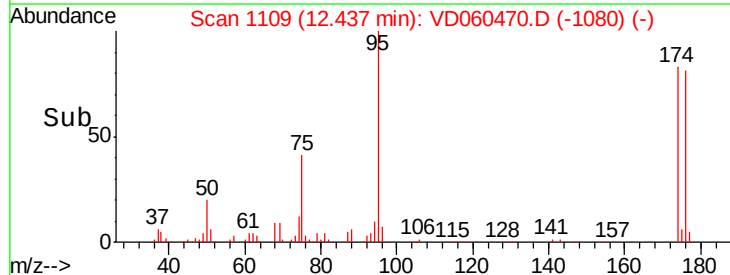
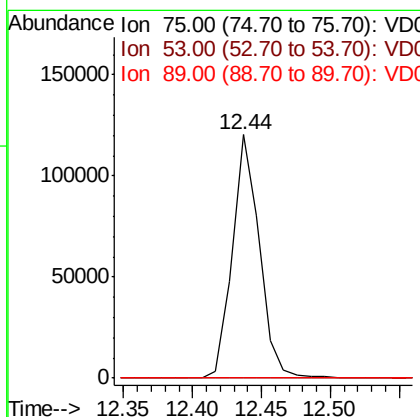
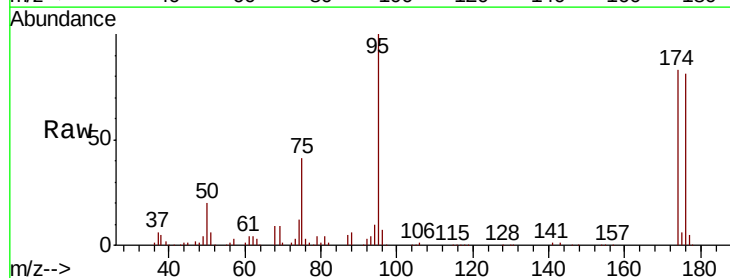
Instrument :
 MSVOA_D
 ClientSampleId :
 A0C10-02A-(6-12)

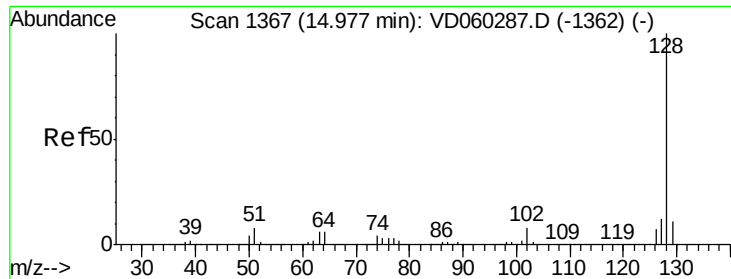
Tot Ion: 75 Resp: 134018
 Ion Ratio Lower Upper
 75 100
 77 1.7 16.4 49.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 128.759 ug/l
 RT: 12.44 min Scan# 1109
 Delta R.T. 0.09 min
 Lab File: VD060470.D
 Acq: 3 Dec 2018 12:41

Tgt Ion: 75 Resp: 163900
 Ion Ratio Lower Upper
 75 100
 53 0.0 68.6 103.0#
 89 0.0 34.1 51.1#





#95

Naphthalene

Concen: 1.363 ug/l

RT: 14.98 min Scan# 1367

Delta R.T. -0.00 min

Lab File: VD060470.D

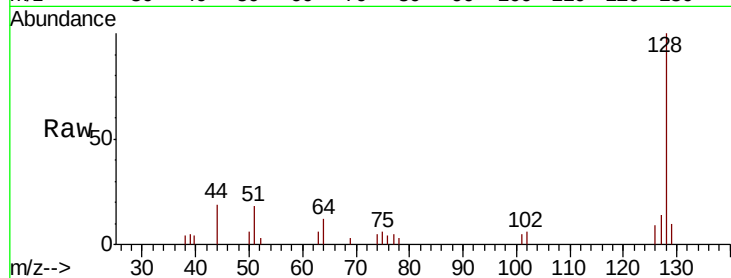
Acq: 3 Dec 2018 12:41

Instrument :

MSVOA_D

ClientSampleId :

A0C10-02A-(6-12)



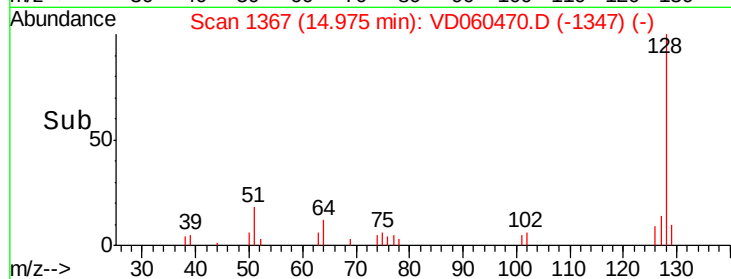
Tot Ion:128 Resp: 13951

Ion Ratio Lower Upper

128 100

127 13.8 9.6 14.4

129 9.9 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

