

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD030819\
 Data File : VD060991.D
 Acq On : 8 Mar 2019 18:43
 Operator : VA/AP
 Sample : K1809-02
 Misc : 5.23g/5ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-BPM-01-A0-B0-A0A-A0B

Quant Time: Mar 08 22:07:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 02:35:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	659822	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.23	114	1273060	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.39	117	1085736	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	14.53	152	508411	50.00	ug/l	0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.47	65	374483	68.18	ug/l	0.02
Spiked Amount	50.000		Recovery	=	136.36%	
35) Dibromofluoromethane	6.93	113	532197	56.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.66%	
50) Toluene-d8	10.43	98	1172003	49.40	ug/l	0.03
Spiked Amount	50.000		Recovery	=	98.80%	
62) 4-Bromofluorobenzene	13.57	95	539568	58.61	ug/l	0.02
Spiked Amount	50.000		Recovery	=	117.22%	

Target Compounds

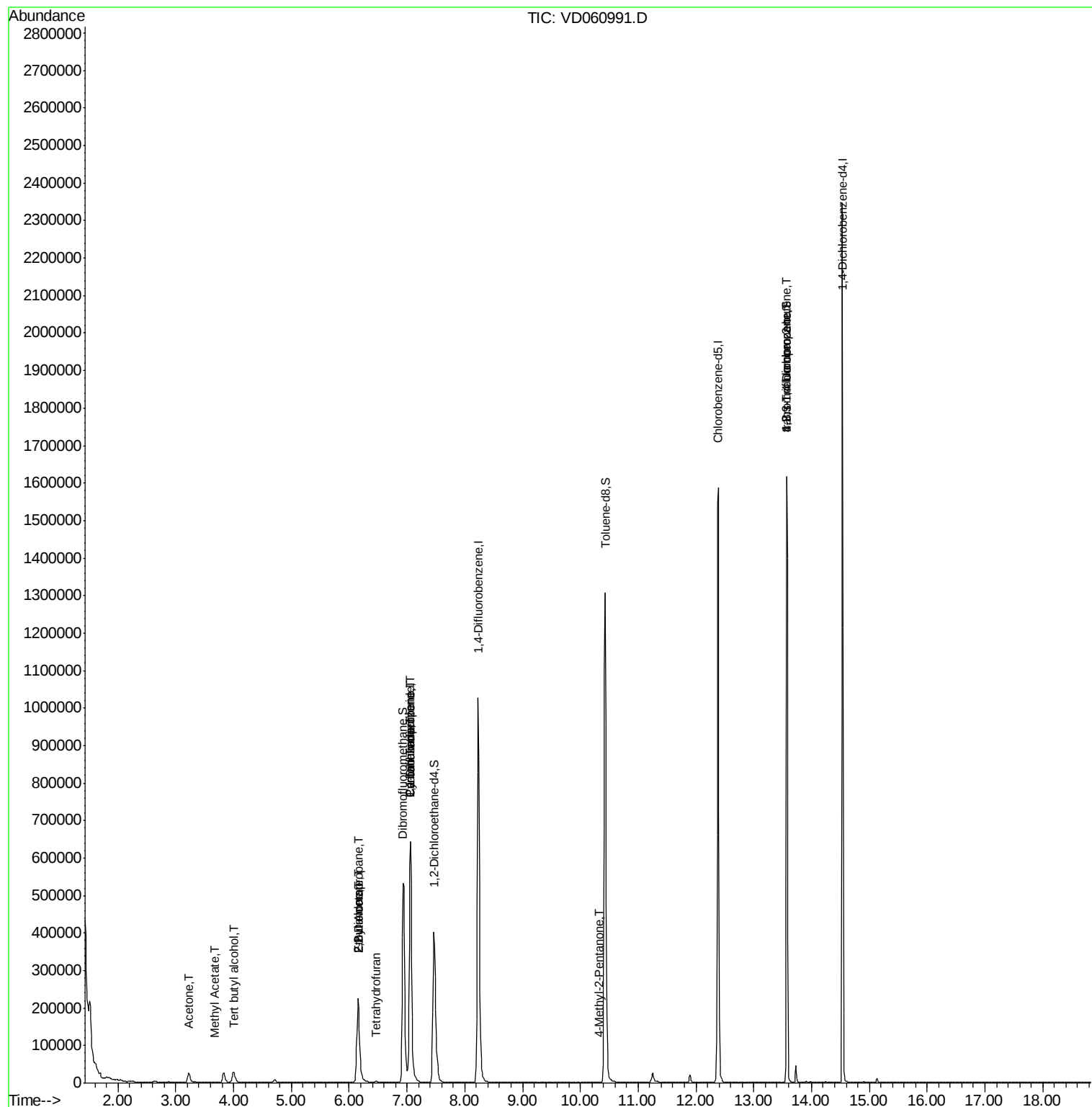
						Qvalue
11) Tert butyl alcohol	4.00	59	29005	82.955	ug/l #	75
16) Acetone	3.22	43	53902	34.320	ug/l	92
18) Methyl Acetate	3.66	43	1441	0.466	ug/l #	59
20) Methylene Chloride	3.83	84	19293	Below Cal		93
25) 2-Butanone	6.15	43	16242	9.114	ug/l #	73
26) 2,2-Dichloropropane	6.16	77	16335	1.736	ug/l #	50
29) Tetrahydrofuran	6.46	42	2278	2.354	ug/l #	54
31) Cyclohexane	7.05	56	11045	1.136	ug/l #	1
36) 1,1-Dichloropropene	7.06	75	51622	4.704	ug/l #	47
37) Ethyl Acetate	6.15	43	16242	3.154	ug/l #	14
38) Carbon Tetrachloride	7.06	117	63761	5.275	ug/l #	15
51) 4-Methyl-2-Pentanone	10.31	43	2354	0.539	ug/l	99
76) 1,2,3-Trichloropropane	13.57	75	194318	26.566	ug/l #	44
81) trans-1,4-Dichloro-2-buten	13.57	75	197630	91.646	ug/l #	17

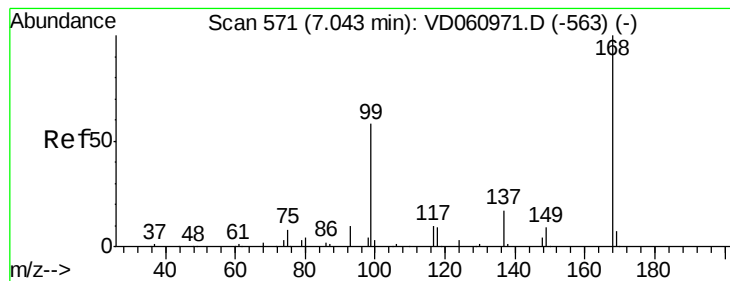
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD030819\
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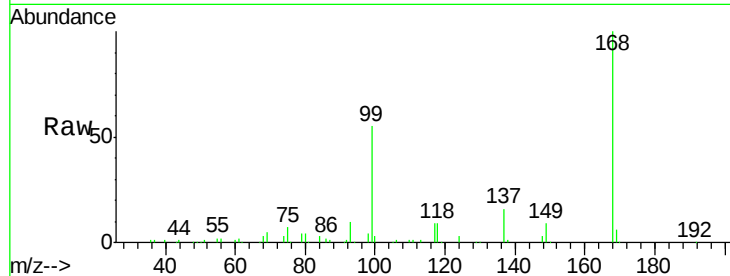


#1

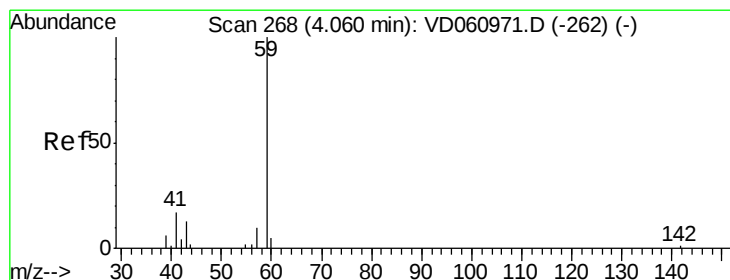
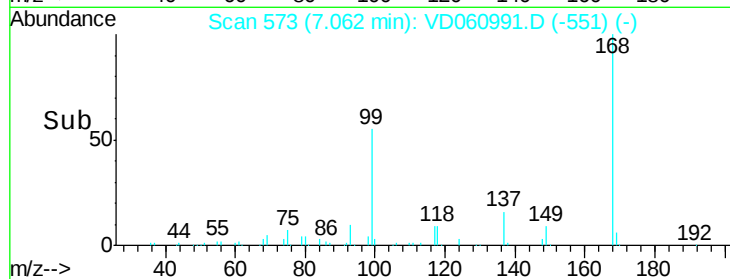
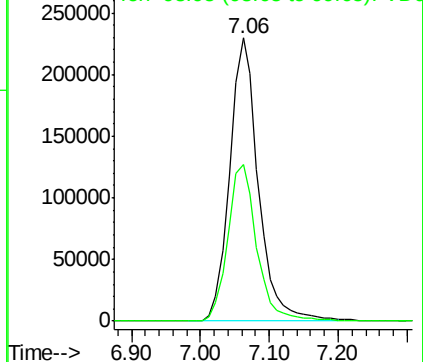
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 7.06 min Scan# 573
 Delta R.T. 0.02 min
 Lab File: VD060991.D
 Acq: 8 Mar 2019 18:43

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-BPM-01-A0-B0-A0A-A0B

Tot Ion:168 Resp: 659822
 Ion Ratio Lower Upper
 168 100
 99 55.3 47.3 70.9



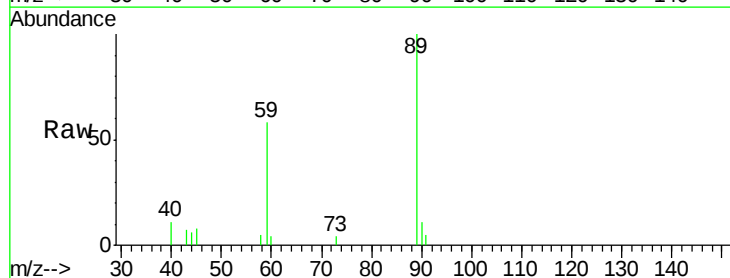
Abundance Ion 167.90 (167.60 to 168.60): V



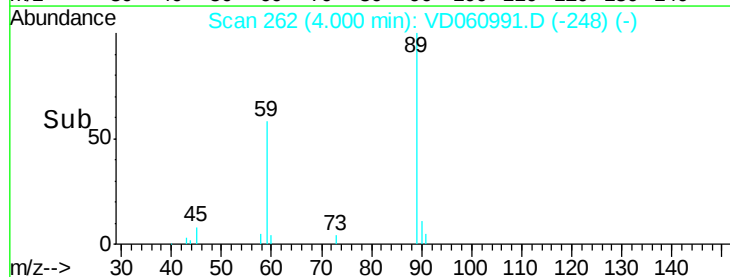
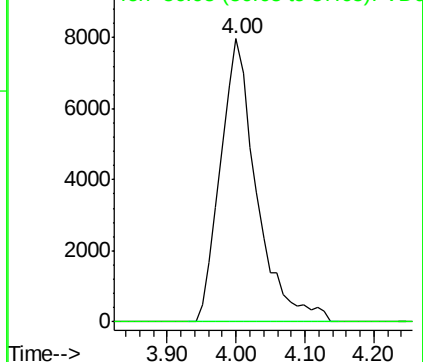
#11

Tert butyl alcohol
 Concen: 82.955 ug/l
 RT: 4.00 min Scan# 262
 Delta R.T. -0.06 min
 Lab File: VD060991.D
 Acq: 8 Mar 2019 18:43

Tgt Ion: 59 Resp: 29005
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.1 10.7#



Abundance Ion 58.95 (58.65 to 59.65): VDC





#16

Acetone

Concen: 34.320 ug/l

RT: 3.22 min Scan# 183

Delta R.T. -0.00 min

Lab File: VD060991.D

Acq: 8 Mar 2019 18:43

Instrument :

MSVOA_D

ClientSampleId :

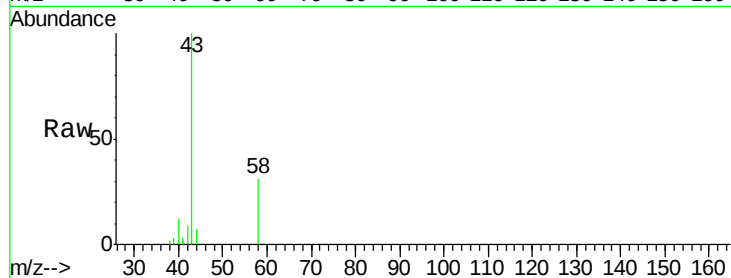
FK-BPM-01-A0-B0-A0A-A0B

Tot Ion: 43 Resp: 53902

Ion Ratio Lower Upper

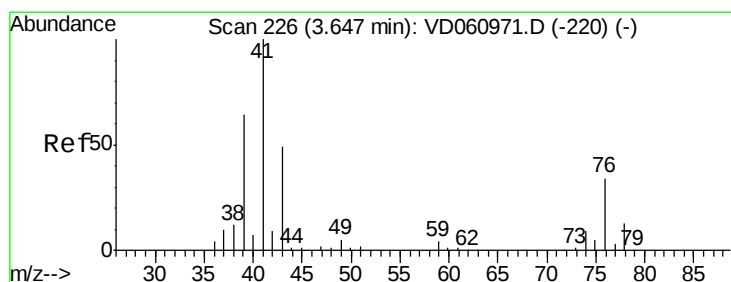
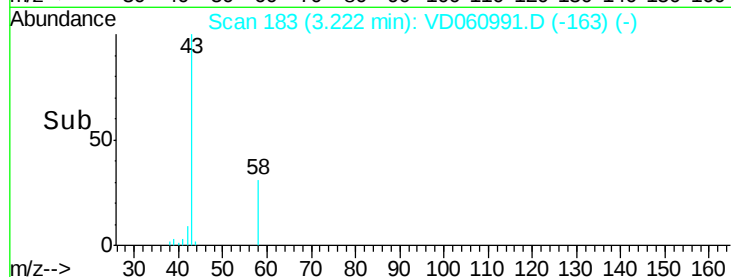
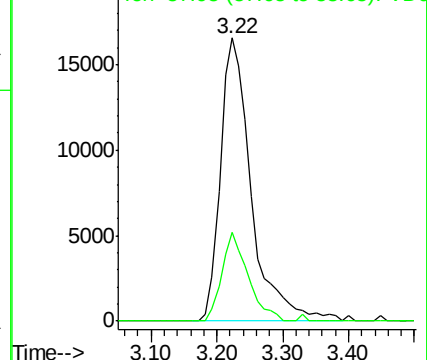
43 100

58 31.2 21.6 32.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 0.466 ug/l

RT: 3.66 min Scan# 227

Delta R.T. 0.01 min

Lab File: VD060991.D

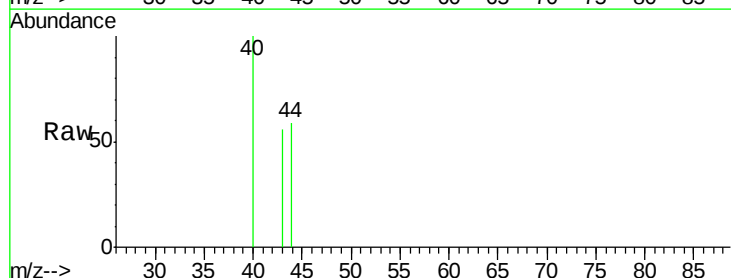
Acq: 8 Mar 2019 18:43

Tgt Ion: 43 Resp: 1441

Ion Ratio Lower Upper

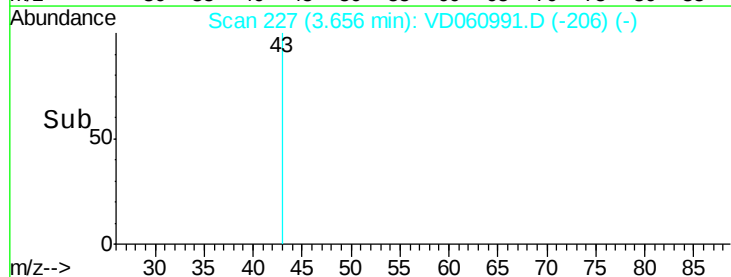
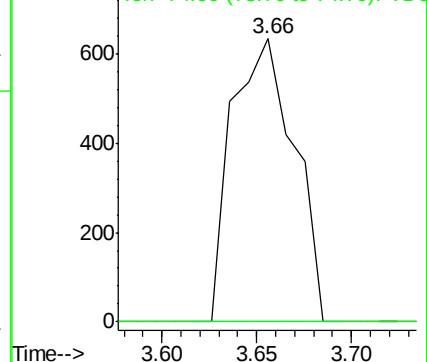
43 100

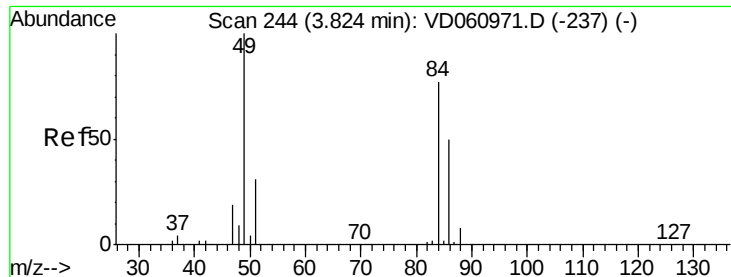
74 0.0 14.6 21.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

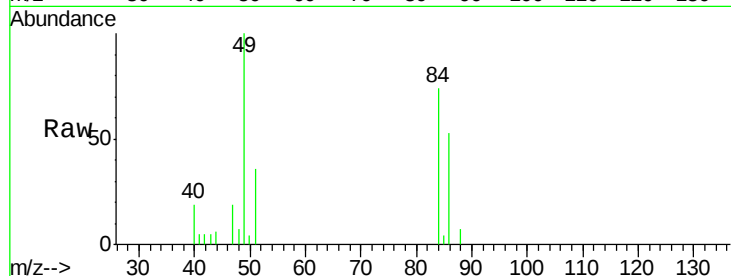




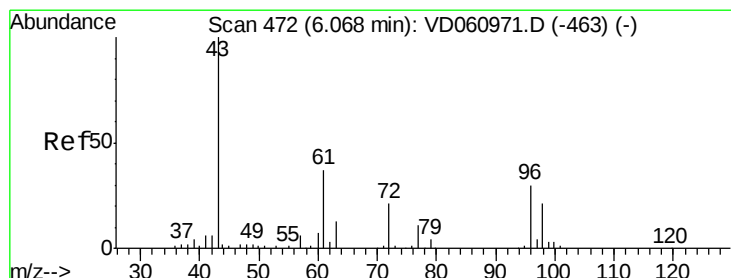
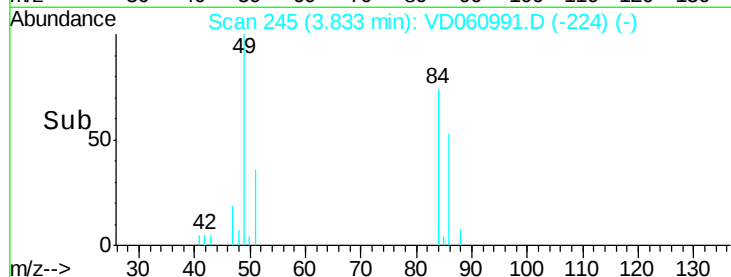
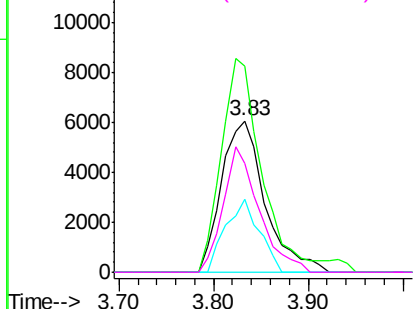
#20
Methylene Chloride
Concen: Below Cal
RT: 3.83 min Scan# 245
Delta R.T. 0.01 min
Lab File: VD060991.D
Acq: 8 Mar 2019 18:43

Instrument :
MSVOA_D
ClientSampleId :
FK-BPM-01-A0-B0-A0A-A0B

Tot Ion: 84 Resp: 19293
Ion Ratio Lower Upper
84 100
49 135.8 104.2 156.2
51 48.3 32.3 48.5
86 71.4 52.3 78.5

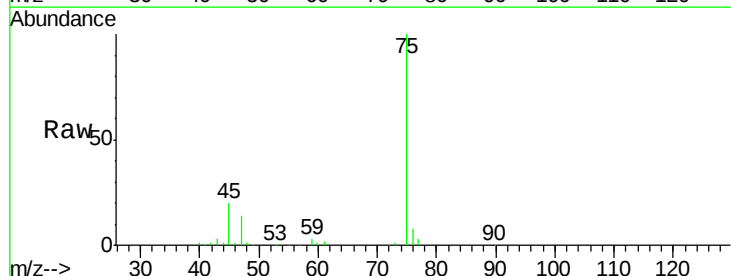


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

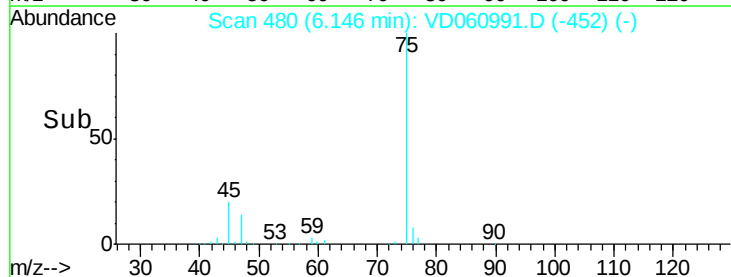
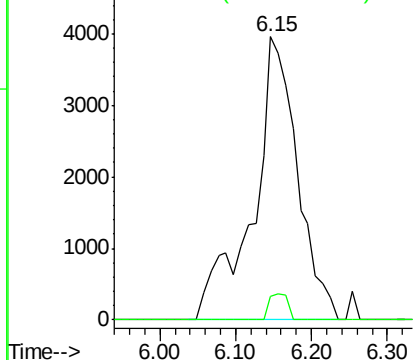


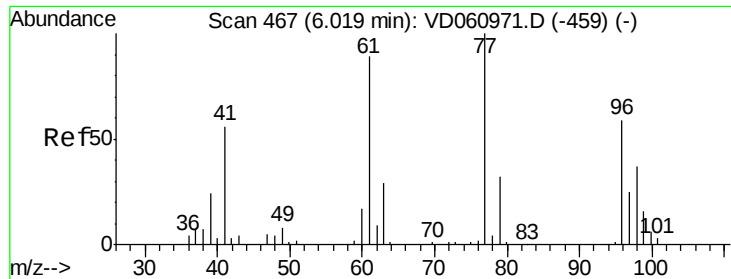
#25
2-Butanone
Concen: 9.114 ug/l
RT: 6.15 min Scan# 480
Delta R.T. 0.08 min
Lab File: VD060991.D
Acq: 8 Mar 2019 18:43

Tgt Ion: 43 Resp: 16242
Ion Ratio Lower Upper
43 100
72 8.4 16.7 25.1#



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





#26

2,2-Dichloropropane

Concen: 1.736 ug/l

RT: 6.16 min Scan# 481

Delta R.T. 0.14 min

Lab File: VD060991.D

Acq: 8 Mar 2019 18:43

Instrument :

MSVOA_D

ClientSampleId :

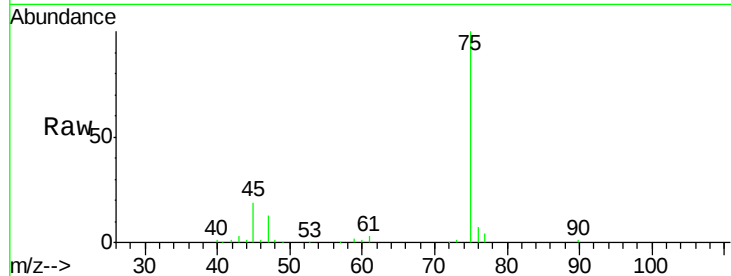
FK-BPM-01-A0-B0-A0A-A0B

Tot Ion: 77 Resp: 16335

Ion Ratio Lower Upper

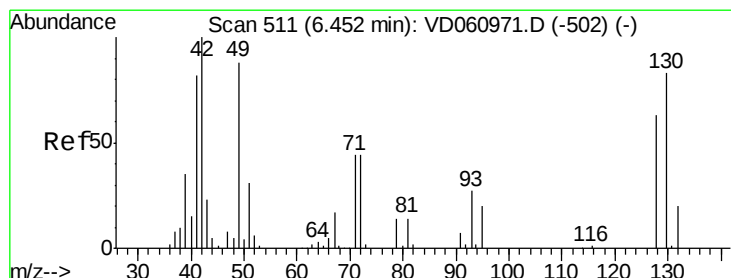
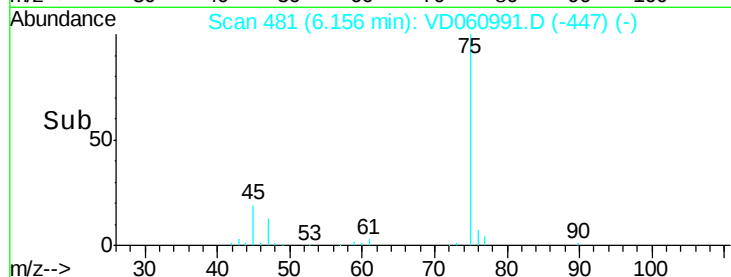
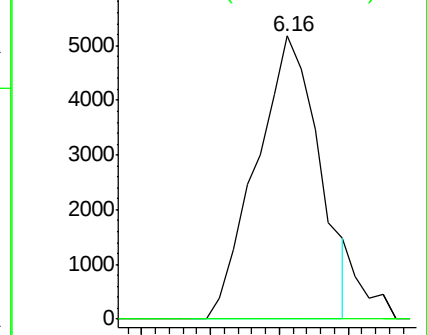
77 100

97 0.0 12.6 37.6#



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



#29

Tetrahydrofuran

Concen: 2.354 ug/l

RT: 6.46 min Scan# 512

Delta R.T. 0.01 min

Lab File: VD060991.D

Acq: 8 Mar 2019 18:43

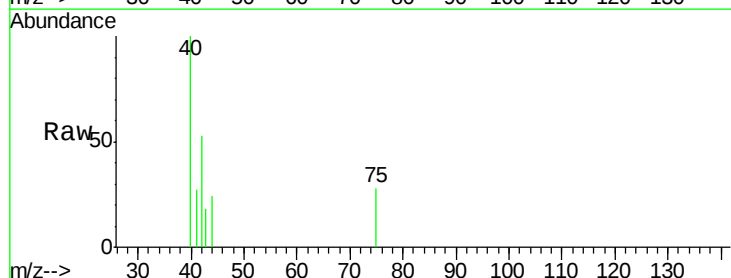
Tgt Ion: 42 Resp: 2278

Ion Ratio Lower Upper

42 100

72 26.3 34.5 51.7#

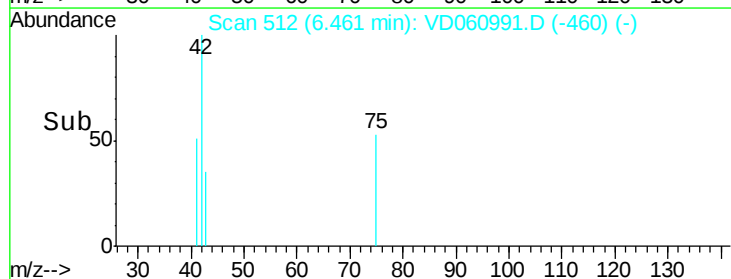
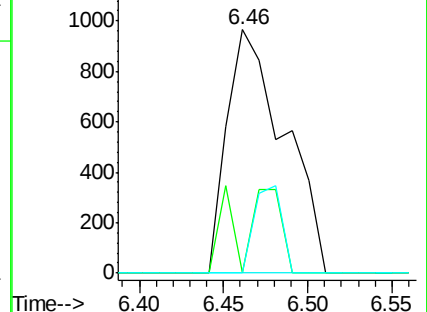
71 0.0 33.8 50.6#

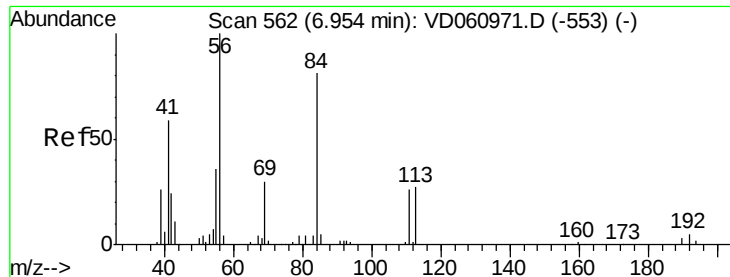


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

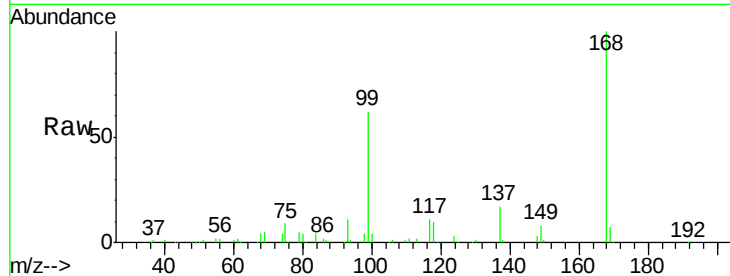




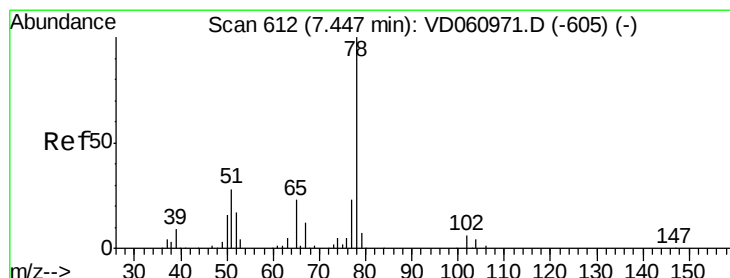
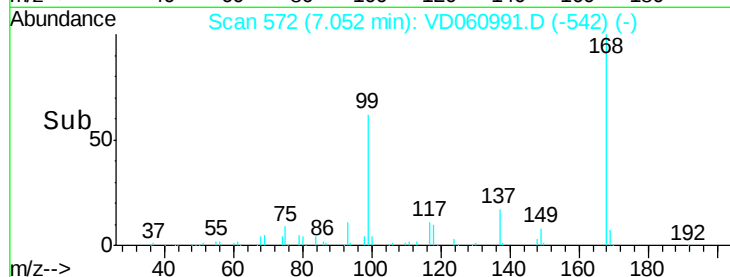
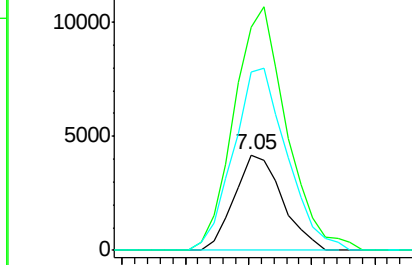
#31
Cyclohexane
Concen: 1.136 ug/l
RT: 7.05 min Scan# 572
Delta R.T. 0.10 min
Lab File: VD060991.D
Acq: 8 Mar 2019 18:43

Instrument :
MSVOA_D
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FK-BPM-01-A0-B0-A0A-A0B

Tot Ion: 56 Resp: 11045
Ion Ratio Lower Upper
56 100
69 234.7 24.0 36.0#
84 187.5 65.8 98.6#

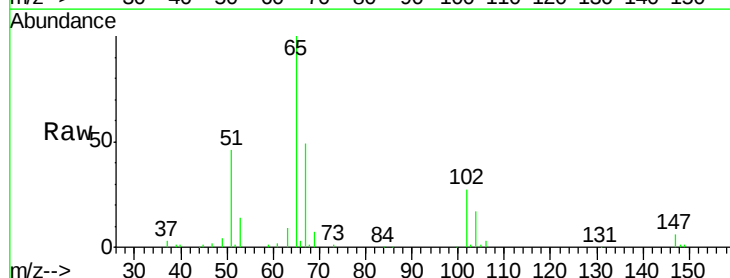


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

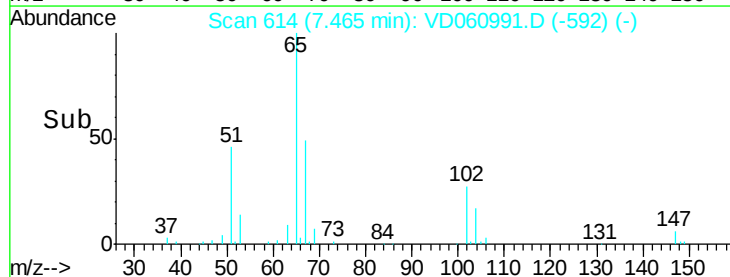
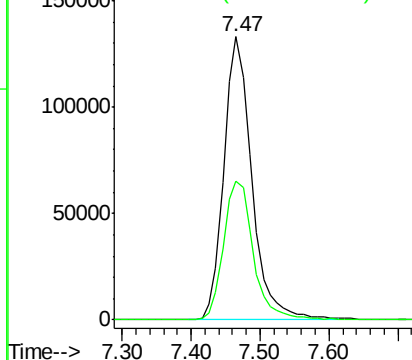


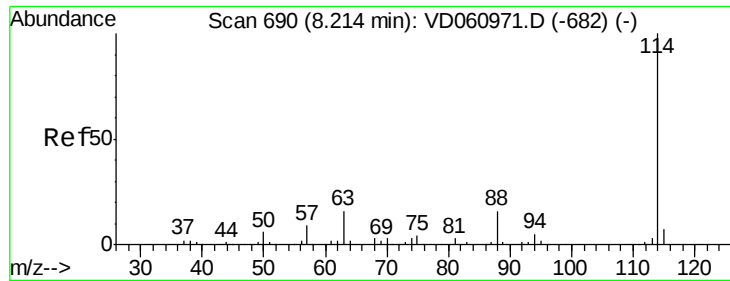
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 7.47 min Scan# 614
Delta R.T. 0.02 min
Lab File: VD060991.D
Acq: 8 Mar 2019 18:43

Tgt Ion: 65 Resp: 374483
Ion Ratio Lower Upper
65 100
67 48.9 0.0 105.2



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

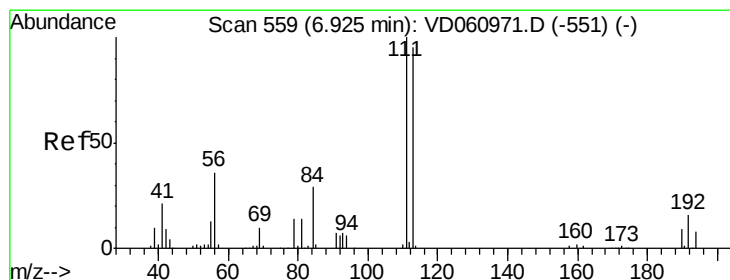
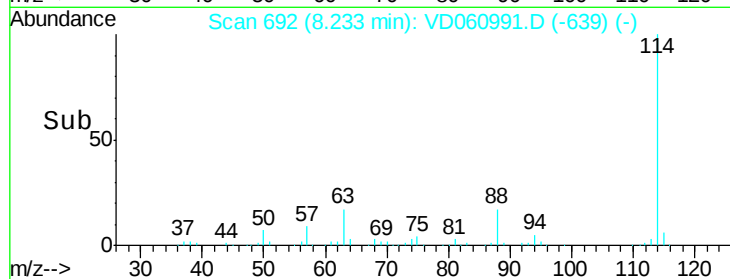
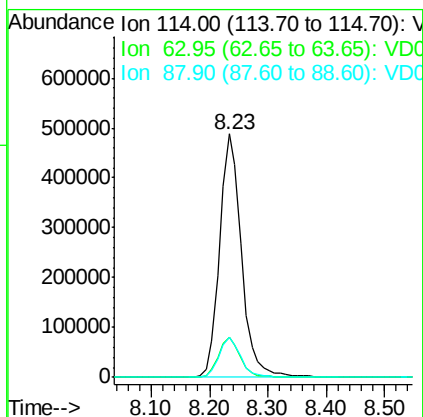
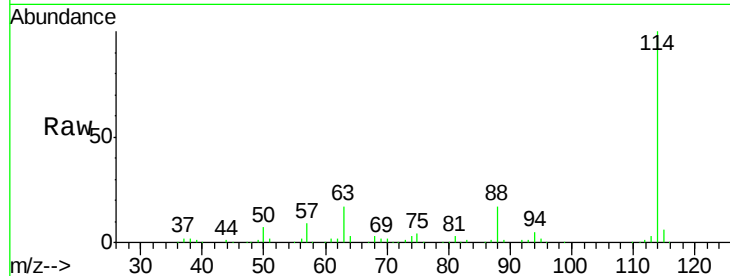




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 692
 Delta R.T. 0.02 min
 Lab File: VD060991.D
 Acq: 8 Mar 2019 18:43

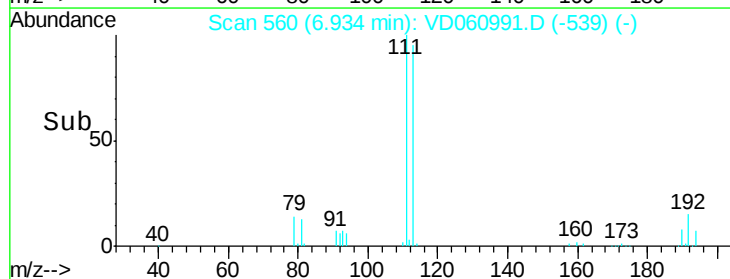
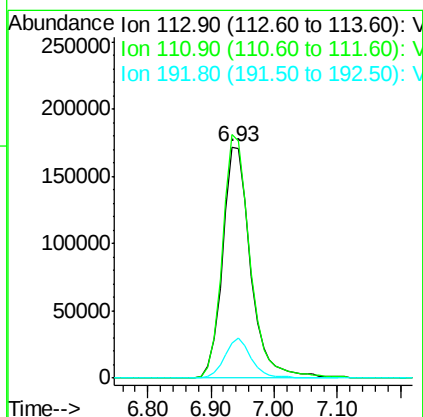
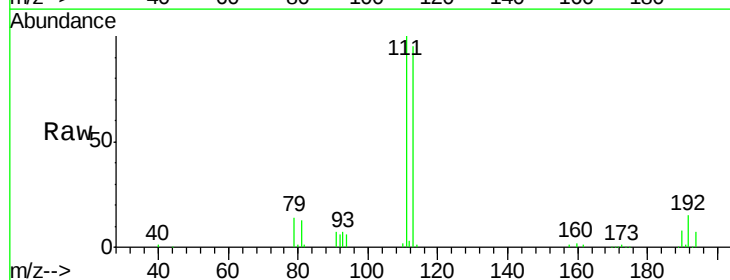
Instrument :
 MSVOA_D
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 FK-BPM-01-A0-B0-A0A-A0B

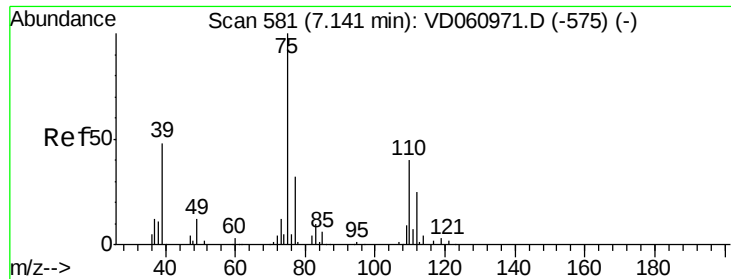
Tot Ion:114 Resp: 1273060
 Ion Ratio Lower Upper
 114 100
 63 16.5 0.0 31.4
 88 16.7 0.0 33.0



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.93 min Scan# 560
 Delta R.T. 0.01 min
 Lab File: VD060991.D
 Acq: 8 Mar 2019 18:43

Tgt Ion:113 Resp: 532197
 Ion Ratio Lower Upper
 113 100
 111 105.3 84.2 126.4
 192 15.4 13.1 19.7





#36

1,1-Dichloropropene

Concen: 4.704 ug/l

RT: 7.06 min Scan# 573

Delta R.T. -0.08 min

Lab File: VD060991.D

Acq: 8 Mar 2019 18:43

Instrument :

MSVOA_D

ClientSampleId :

FK-BPM-01-A0-B0-A0A-A0B

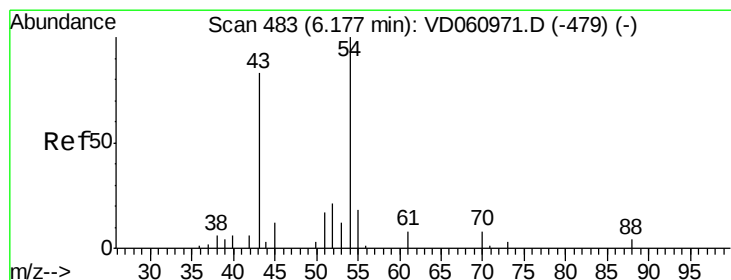
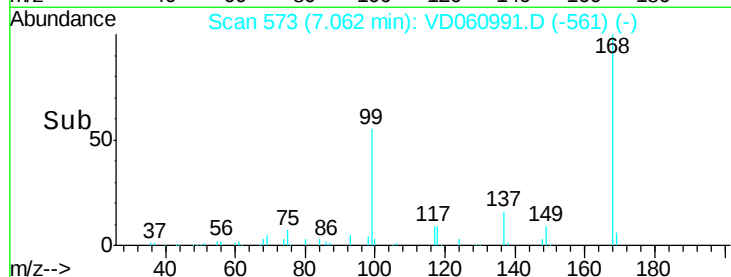
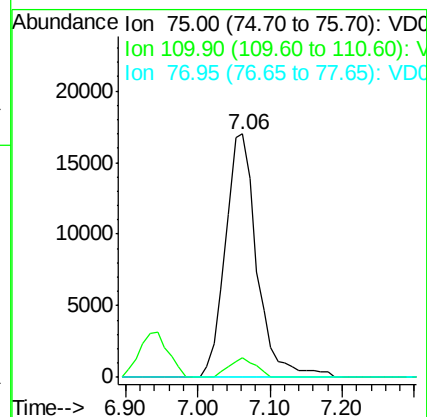
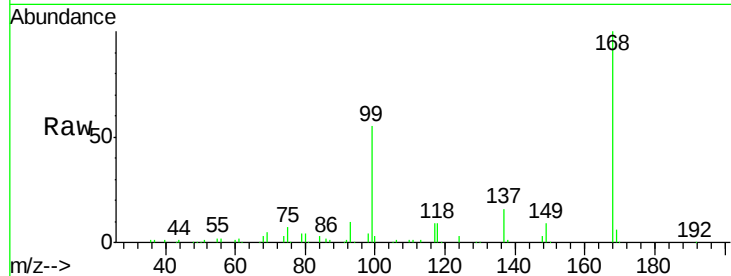
Tot Ion: 75 Resp: 51622

Ion Ratio Lower Upper

75 100

110 8.0 19.7 59.1#

77 0.0 24.7 37.1#



#37

Ethyl Acetate

Concen: 3.154 ug/l

RT: 6.15 min Scan# 480

Delta R.T. -0.03 min

Lab File: VD060991.D

Acq: 8 Mar 2019 18:43

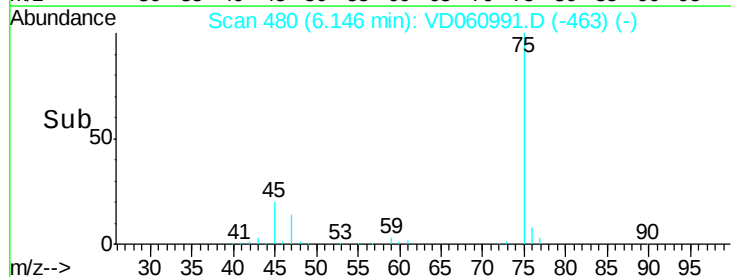
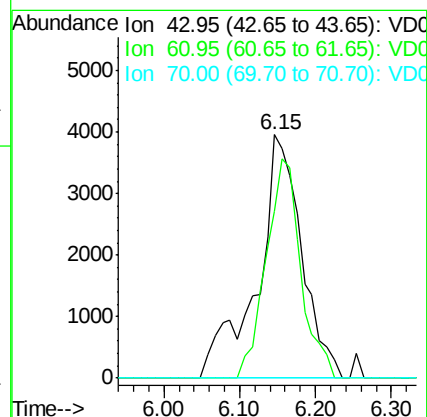
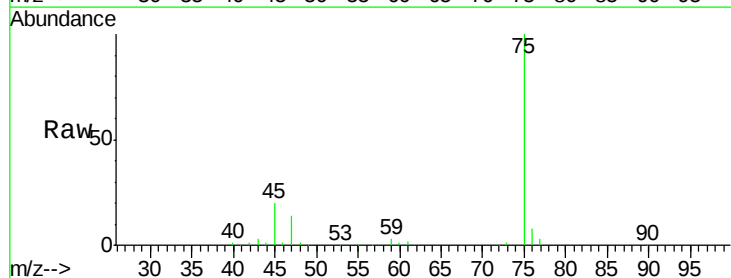
Tgt Ion: 43 Resp: 16242

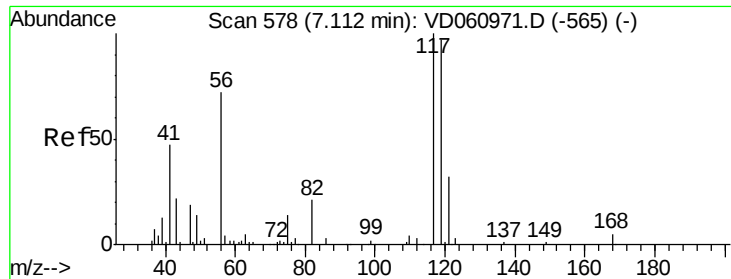
Ion Ratio Lower Upper

43 100

61 68.5 13.7 20.5#

70 0.0 7.1 10.7#





#38

Carbon Tetrachloride

Concen: 5.275 ug/l

RT: 7.06 min Scan# 573

Delta R.T. -0.05 min

Lab File: VD060991.D

Acq: 8 Mar 2019 18:43

Instrument :

MSVOA_D

ClientSampleId :

FK-BPM-01-A0-B0-A0A-A0B

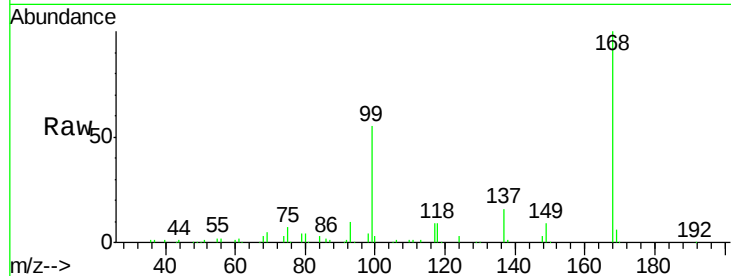
Tot Ion:117 Resp: 63761

Ion Ratio Lower Upper

117 100

119 4.2 77.8 116.8#

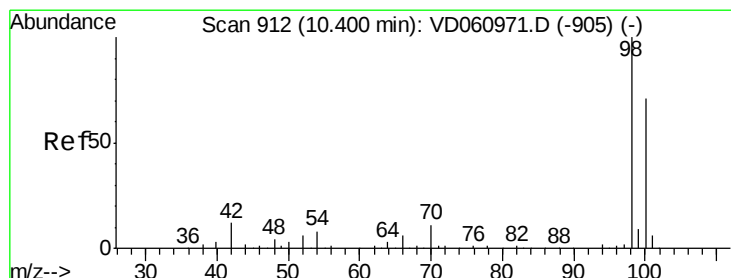
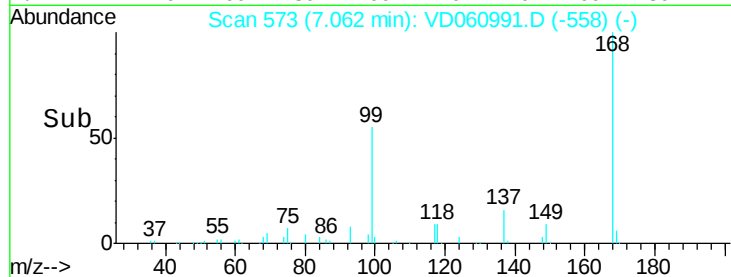
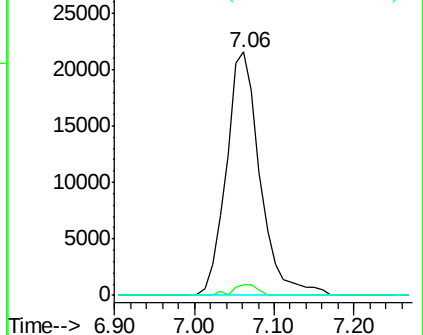
121 0.0 25.3 37.9#



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: 10.43 min Scan# 915

Delta R.T. 0.03 min

Lab File: VD060991.D

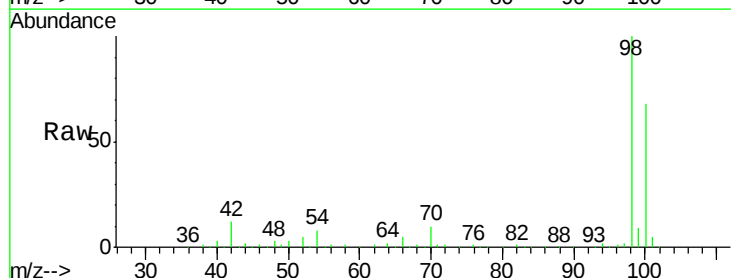
Acq: 8 Mar 2019 18:43

Tgt Ion: 98 Resp: 1172003

Ion Ratio Lower Upper

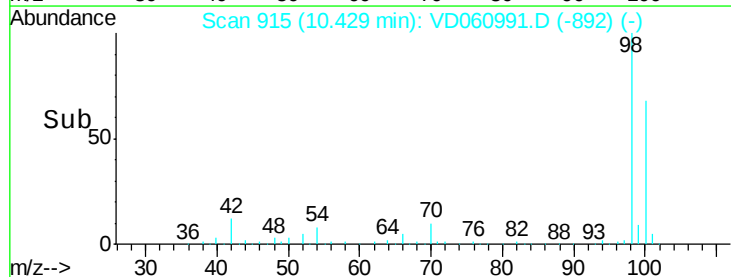
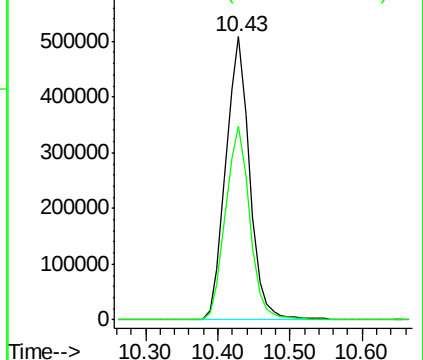
98 100

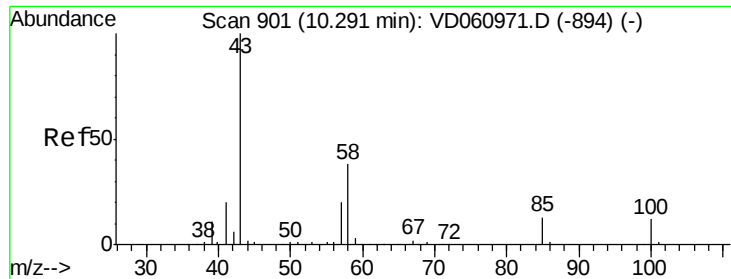
100 68.4 57.4 86.2



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#51

4-Methyl-2-Pentanone

Concen: 0.539 ug/l

RT: 10.31 min Scan# 903

Delta R.T. 0.02 min

Lab File: VD060991.D

Acq: 8 Mar 2019 18:43

Instrument :

MSVOA_D

ClientSampleId :

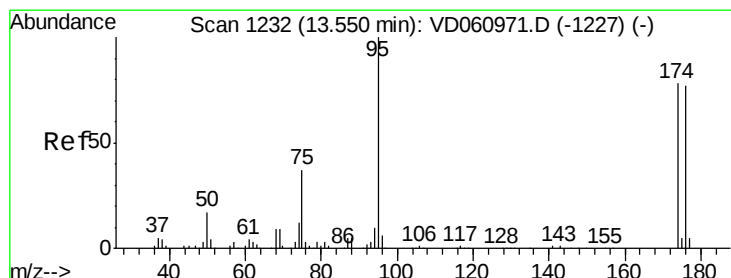
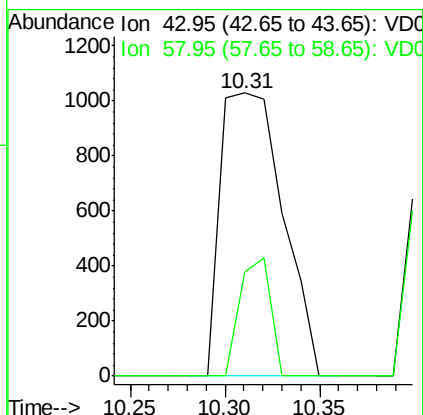
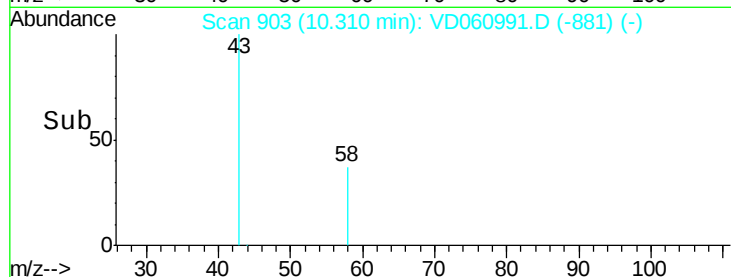
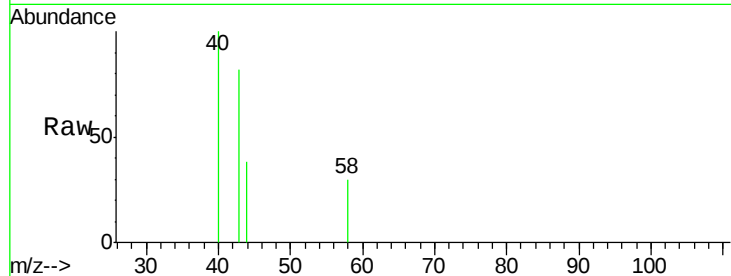
FK-BPM-01-A0-B0-A0A-A0B

Tot Ion: 43 Resp: 2354

Ion Ratio Lower Upper

43 100

58 37.0 30.2 45.2



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.57 min Scan# 1234

Delta R.T. 0.02 min

Lab File: VD060991.D

Acq: 8 Mar 2019 18:43

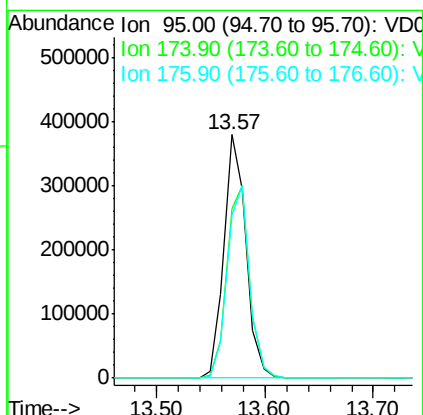
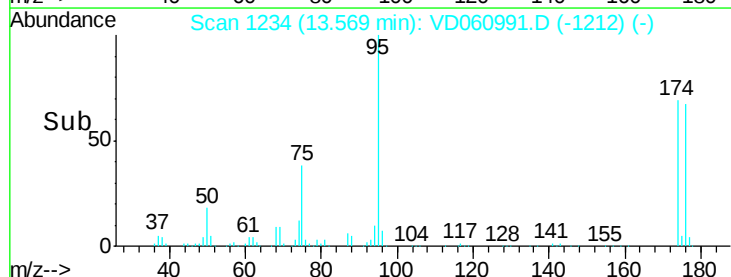
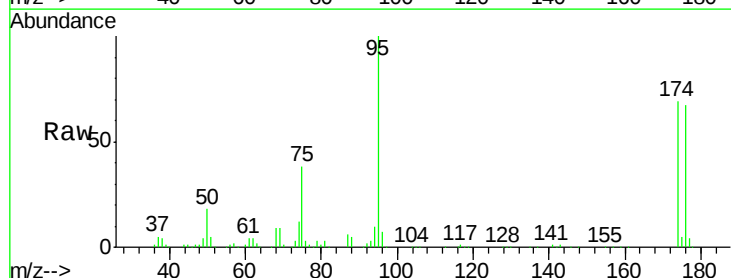
Tgt Ion: 95 Resp: 539568

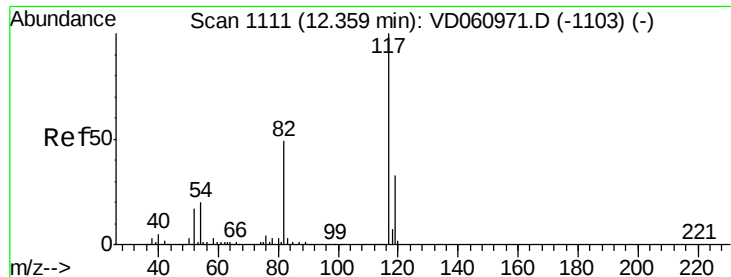
Ion Ratio Lower Upper

95 100

174 69.3 0.0 155.6

176 67.0 0.0 153.8

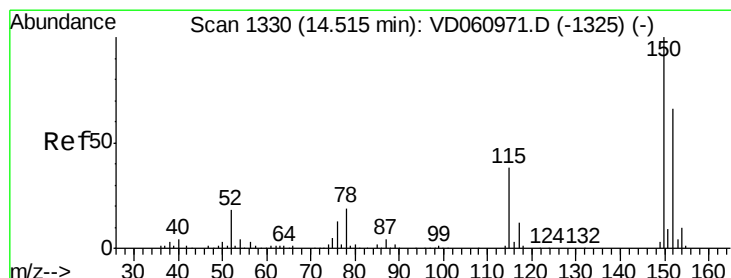
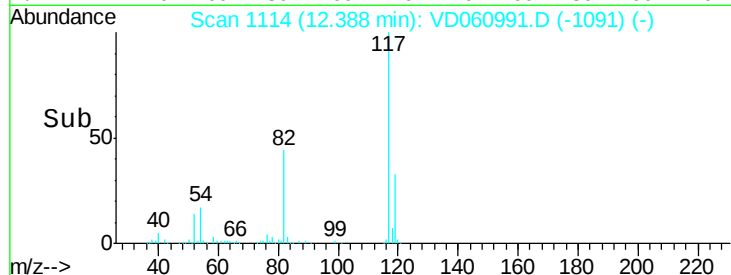
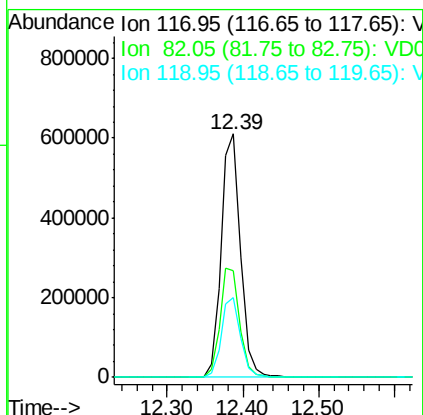
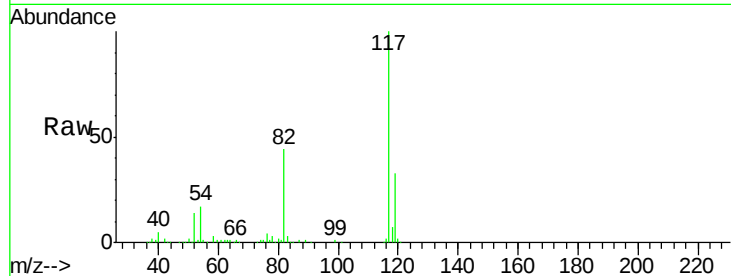




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.39 min Scan# 1114
Delta R.T. 0.03 min
Lab File: VD060991.D
Acq: 8 Mar 2019 18:43

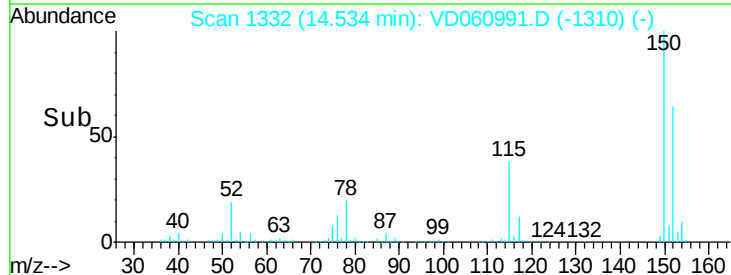
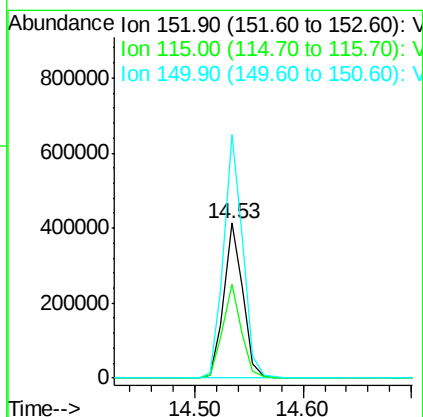
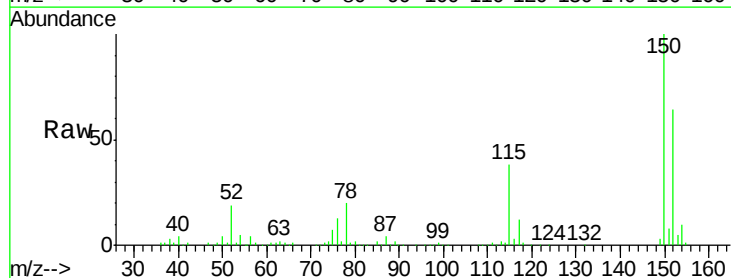
Instrument :
MSVOA_D
ClientSampleId :
FK-BPM-01-A0-B0-A0A-A0B

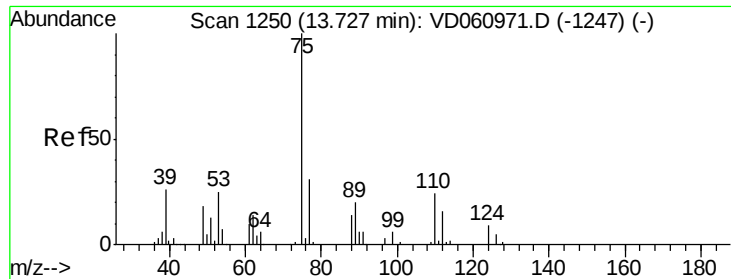
Tot Ion:117 Resp: 1085736
Ion Ratio Lower Upper
117 100
82 44.0 38.9 58.3
119 32.8 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1332
Delta R.T. 0.02 min
Lab File: VD060991.D
Acq: 8 Mar 2019 18:43

Tgt Ion:152 Resp: 508411
Ion Ratio Lower Upper
152 100
115 60.3 28.6 85.9
150 156.9 0.0 310.6

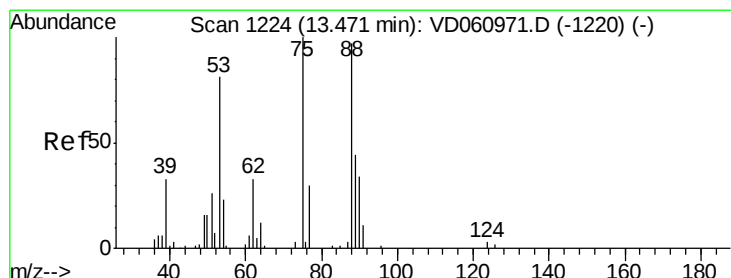
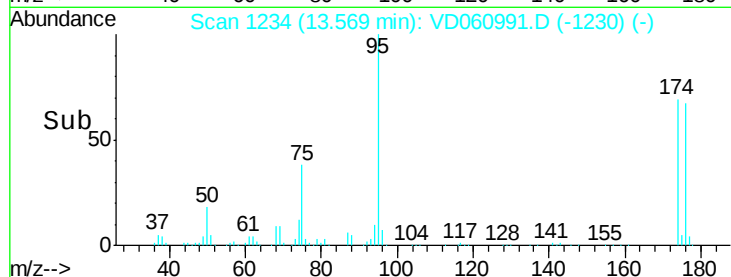
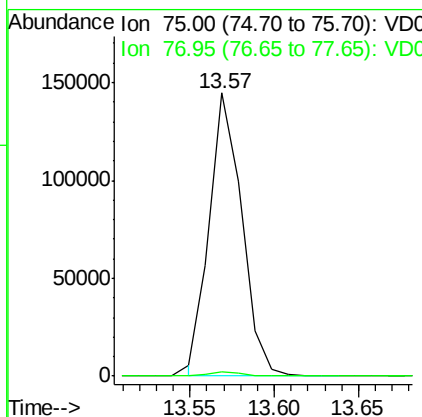
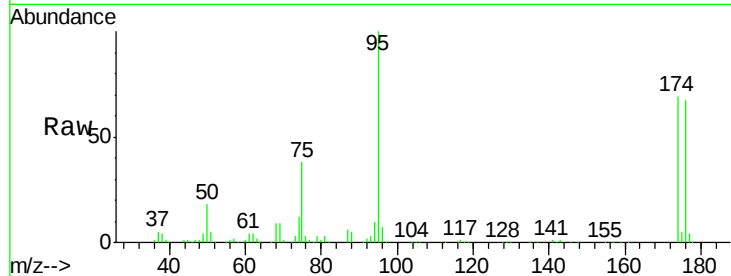




#76
 1,2,3-Trichloropropane
 Concen: 26.566 ug/l
 RT: 13.57 min Scan# 1234
 Delta R.T. -0.16 min
 Lab File: VD060991.D
 Acq: 8 Mar 2019 18:43

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-BPM-01-A0-B0-A0A-A0B

Tot Ion: 75 Resp: 194318
 Ion Ratio Lower Upper
 75 100
 77 1.4 16.6 49.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 91.646 ug/l
 RT: 13.57 min Scan# 1234
 Delta R.T. 0.10 min
 Lab File: VD060991.D
 Acq: 8 Mar 2019 18:43

Tgt Ion: 75 Resp: 197630
 Ion Ratio Lower Upper
 75 100
 53 0.0 64.4 96.6#
 89 0.0 34.8 52.2#

