

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041619\
 Data File : VD061840.D
 Acq On : 17 Apr 2019 7:27
 Operator : VA/AP
 Sample : K2423-11
 Misc : 4.08g/5ml/MSVOA D/SOIL
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 17 07:59:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D041519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 16 08:53:01 2019
 Response via : Initial Calibration

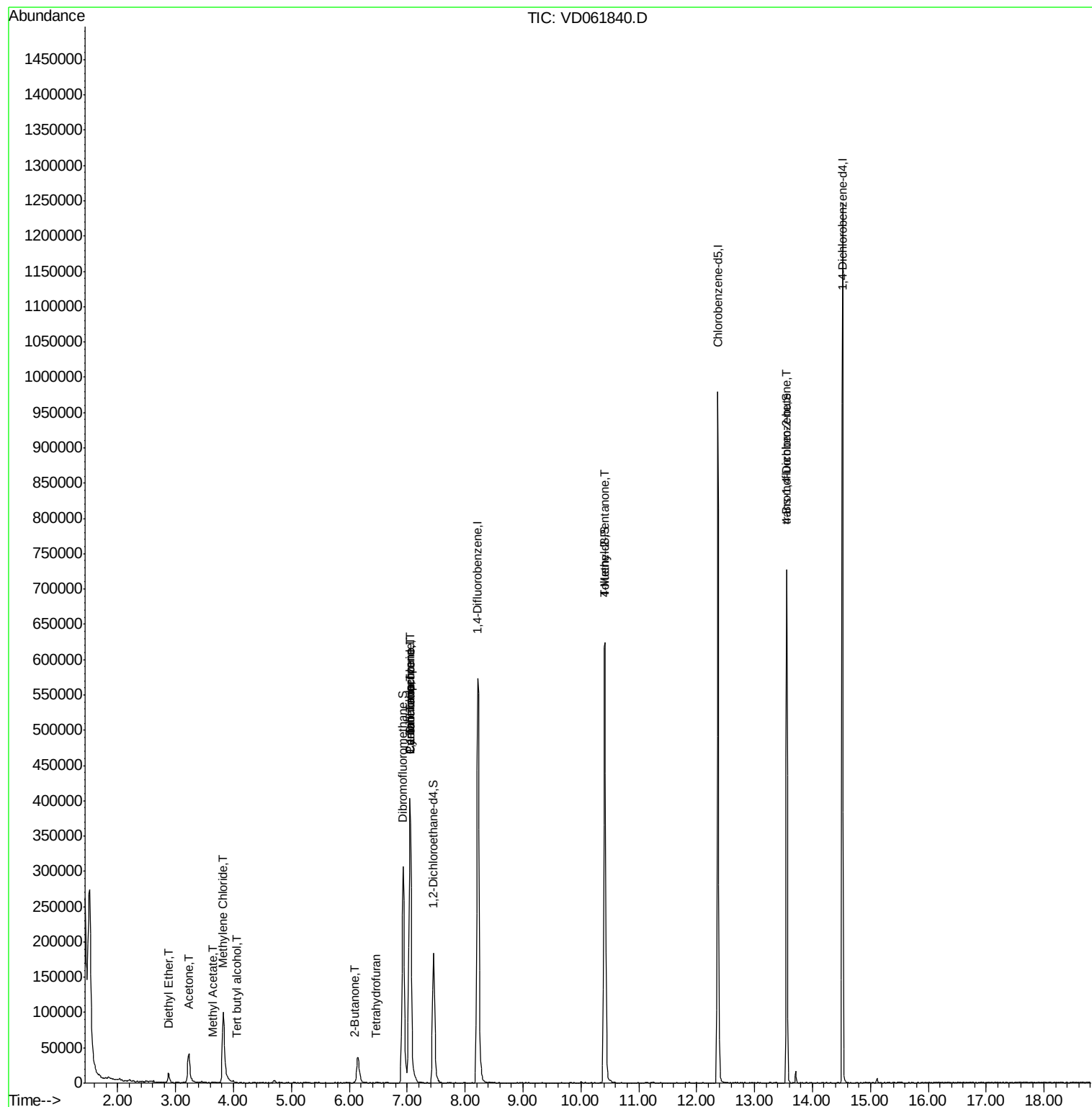
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	419145	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	8.22	114	726524	50.00	ug/l	-0.04
63) Chlorobenzene-d5	12.36	117	605716	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	14.52	152	295078	50.00	ug/l	-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.46	65	197717	56.28	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	112.56%	
35) Dibromofluoromethane	6.93	113	275371	50.17	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	100.34%	
50) Toluene-d8	10.41	98	576757	44.35	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	88.70%	
62) 4-Bromofluorobenzene	13.55	95	237262	45.01	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	90.02%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.19	94	617	Below Cal	#	1
8) Diethyl Ether	2.87	74	5998	4.361	ug/l	71
11) Tert butyl alcohol	4.05	59	625	3.017	ug/l #	76
16) Acetone	3.23	43	92088	106.364	ug/l	95
18) Methyl Acetate	3.64	43	2561	1.476	ug/l #	53
20) Methylene Chloride	3.82	84	82312	16.008	ug/l	96
25) 2-Butanone	6.08	43	2257	2.290	ug/l #	56
29) Tetrahydrofuran	6.47	42	683	1.423	ug/l #	30
31) Cyclohexane	7.05	56	7126	1.340	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	30337	5.110	ug/l #	48
38) Carbon Tetrachloride	7.05	117	40661	5.424	ug/l #	16
51) 4-Methyl-2-Pentanone	10.41	43	2316	1.059	ug/l #	1
81) trans-1,4-Dichloro-2-buten	13.55	75	89878	70.125	ug/l #	16

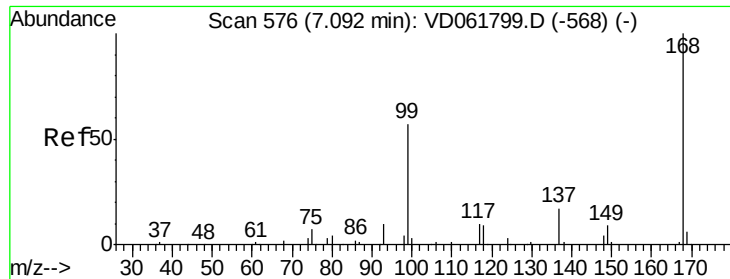
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD041619\
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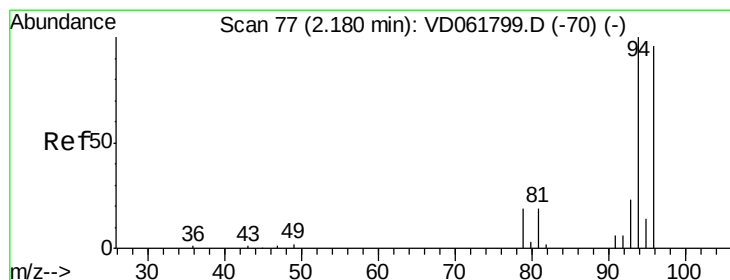
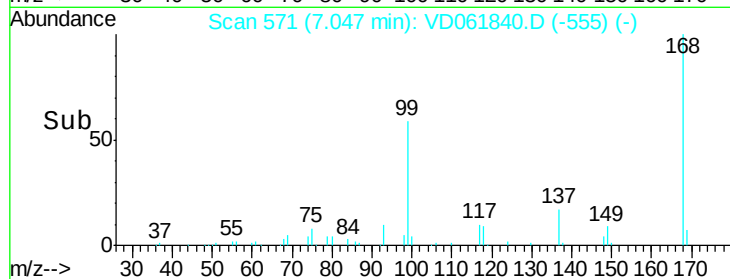
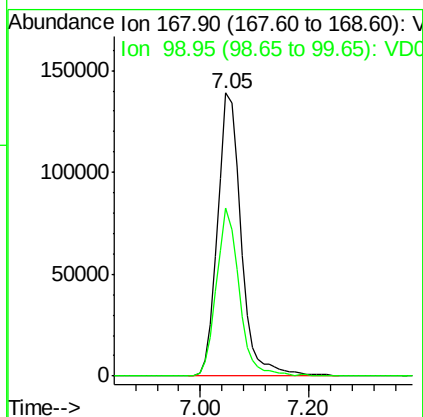
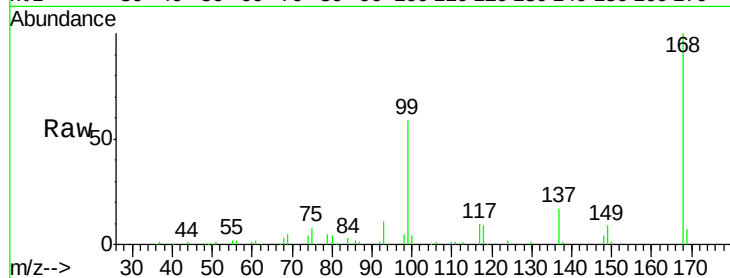




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.05 min Scan# 571
Delta R.T. -0.04 min
Lab File: VD061840.D
Acq: 17 Apr 2019 7:27

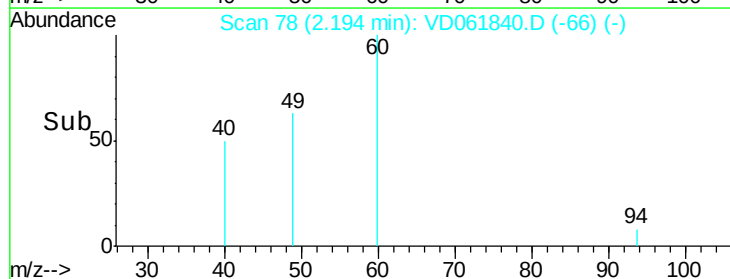
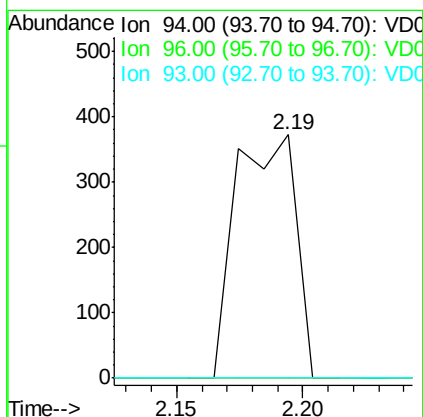
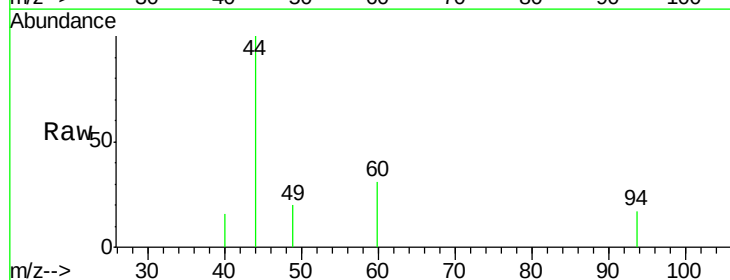
Instrument :
MSVOA_D
ClientSampleId :

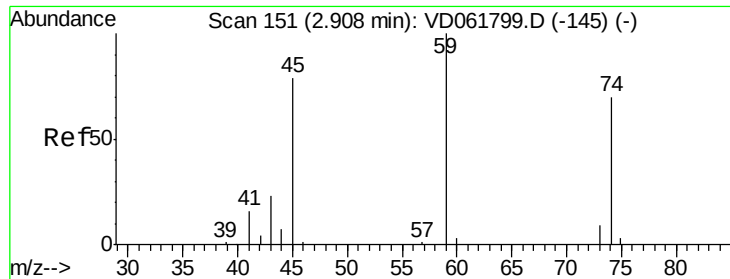
Tot Ion:168 Resp: 419145
Ion Ratio Lower Upper
168 100
99 59.2 46.5 69.7



#5
Bromomethane
Concen: Below Cal
RT: 2.19 min Scan# 78
Delta R.T. 0.02 min
Lab File: VD061840.D
Acq: 17 Apr 2019 7:27

Tgt Ion: 94 Resp: 617
Ion Ratio Lower Upper
94 100
96 0.0 76.6 115.0#
93 100.0 18.5 27.7#





#8

Diethyl Ether

Concen: 4.361 ug/l

RT: 2.87 min Scan# 147

Delta R.T. -0.03 min

Lab File: VD061840.D

Acq: 17 Apr 2019 7:27

Instrument :

MSVOA_D

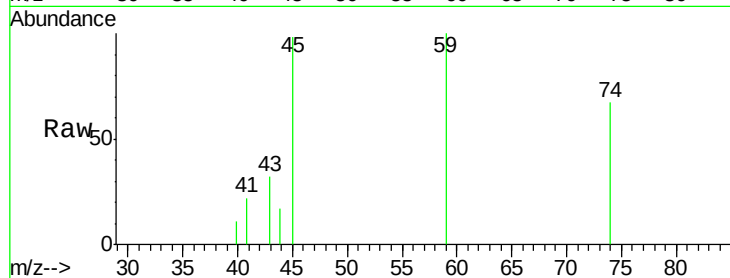
ClientSampleId :

Tot Ion: 74 Resp: 5998

Ion Ratio Lower Upper

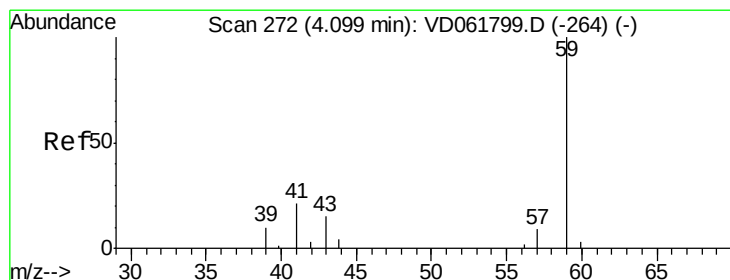
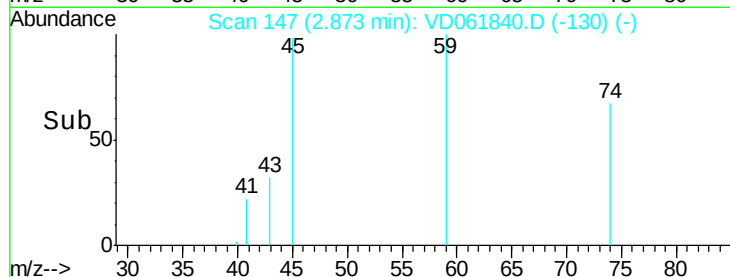
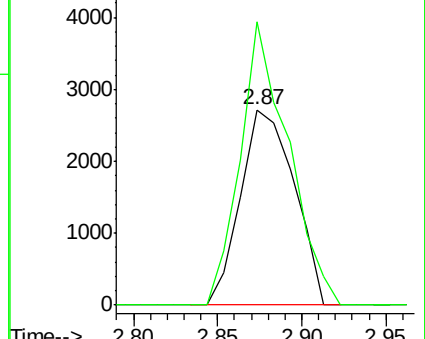
74 100

45 145.1 56.9 170.7



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#11

Tert butyl alcohol

Concen: 3.017 ug/l

RT: 4.05 min Scan# 267

Delta R.T. -0.04 min

Lab File: VD061840.D

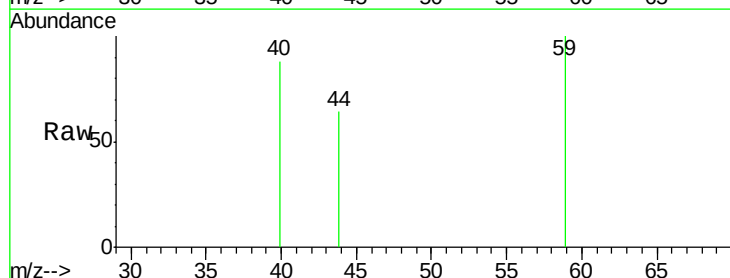
Acq: 17 Apr 2019 7:27

Tgt Ion: 59 Resp: 625

Ion Ratio Lower Upper

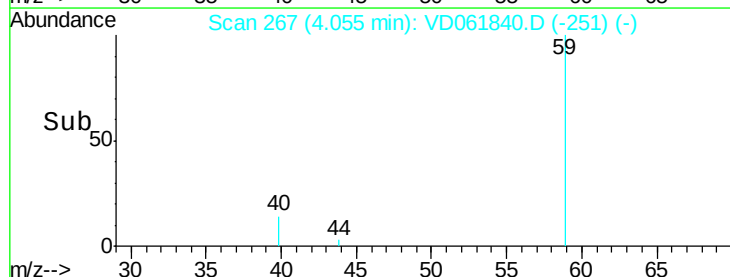
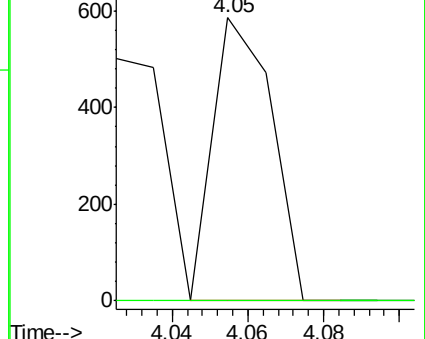
59 100

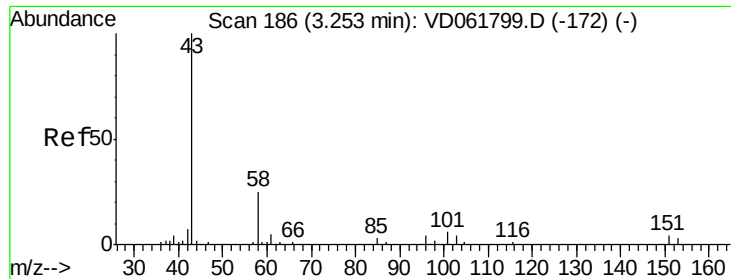
57 0.0 6.9 10.3#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

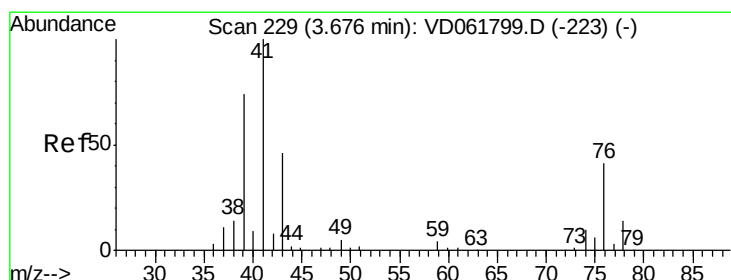
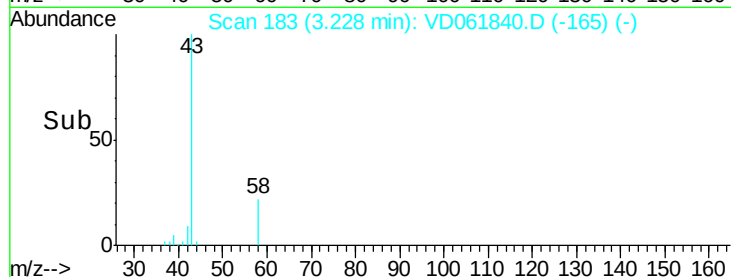
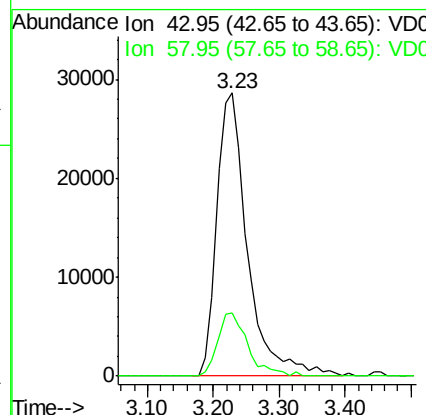
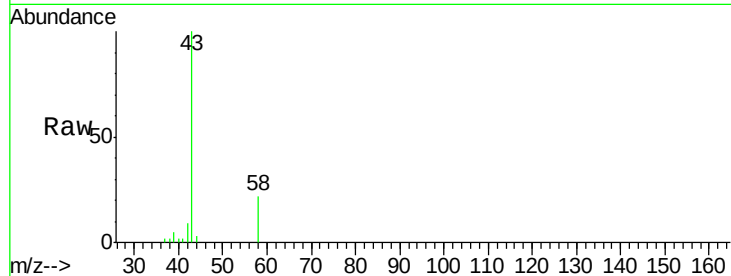




#16
Acetone
Concen: 106.364 ug/l
RT: 3.23 min Scan# 183
Delta R.T. -0.02 min
Lab File: VD061840.D
Acq: 17 Apr 2019 7:27

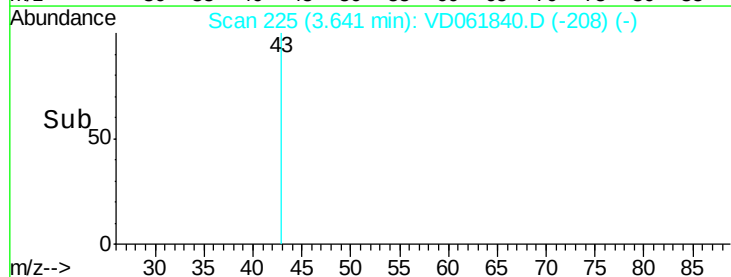
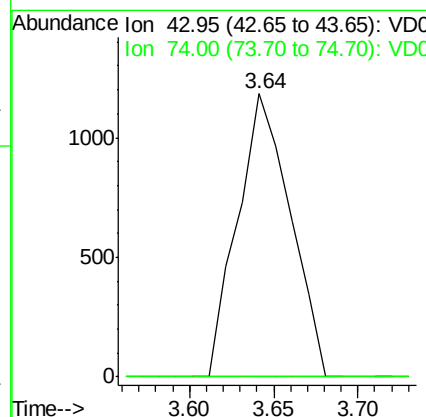
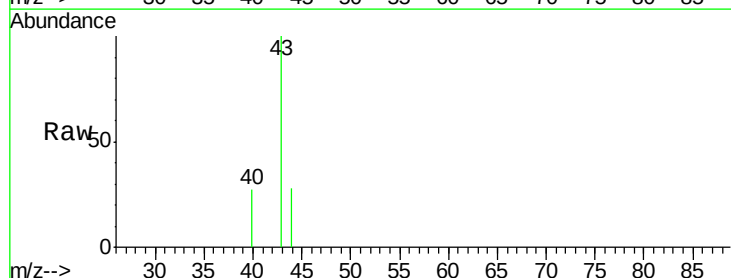
Instrument :
MSVOA_D
ClientSampleId :

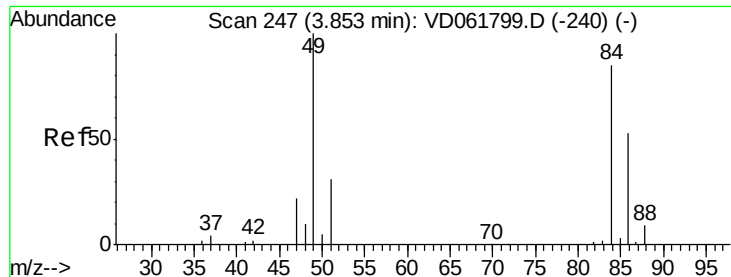
Tot Ion: 43 Resp: 92088
Ion Ratio Lower Upper
43 100
58 22.5 19.9 29.9



#18
Methyl Acetate
Concen: 1.476 ug/l
RT: 3.64 min Scan# 225
Delta R.T. -0.03 min
Lab File: VD061840.D
Acq: 17 Apr 2019 7:27

Tgt Ion: 43 Resp: 2561
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#

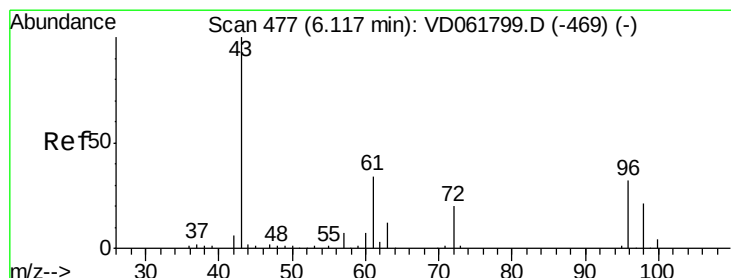
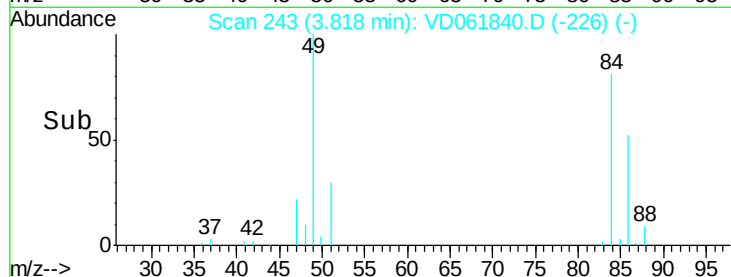
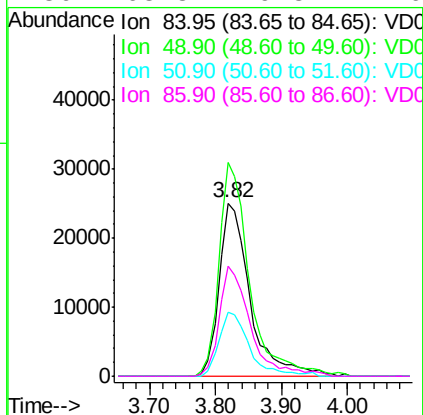
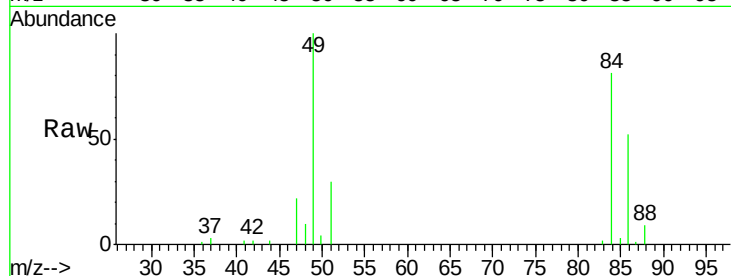




#20
Methvlene Chloride
Concen: 16.008 ug/l
RT: 3.82 min Scan# 243
Delta R.T. -0.03 min
Lab File: VD061840.D
Acq: 17 Apr 2019 7:27

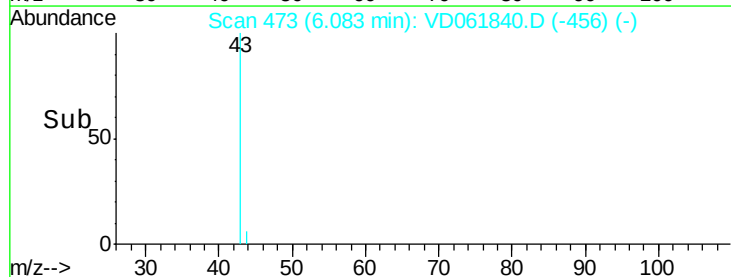
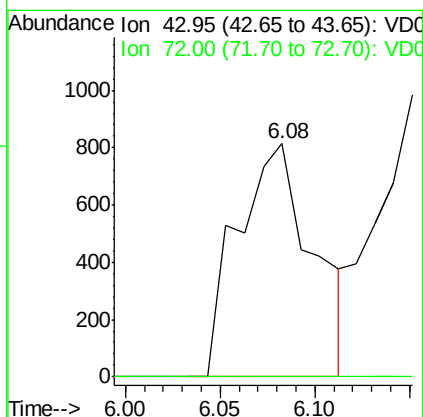
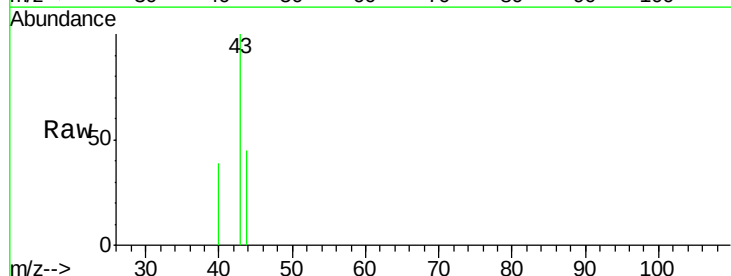
Instrument :
MSVOA_D
ClientSampleId :

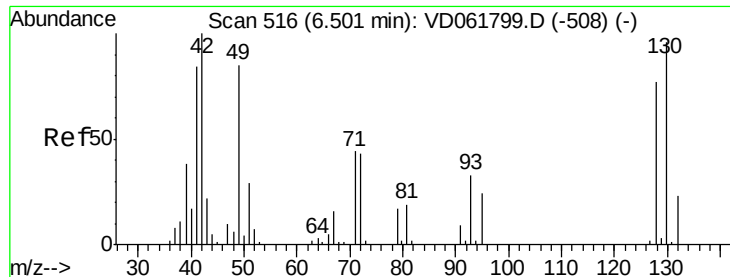
Tot Ion: 84 Resp: 82312
Ion Ratio Lower Upper
84 100
49 123.2 94.0 141.0
51 36.8 29.0 43.4
86 63.8 49.8 74.6



#25
2-Butanone
Concen: 2.290 ug/l
RT: 6.08 min Scan# 473
Delta R.T. -0.03 min
Lab File: VD061840.D
Acq: 17 Apr 2019 7:27

Tgt Ion: 43 Resp: 2257
Ion Ratio Lower Upper
43 100
72 0.0 16.2 24.4#

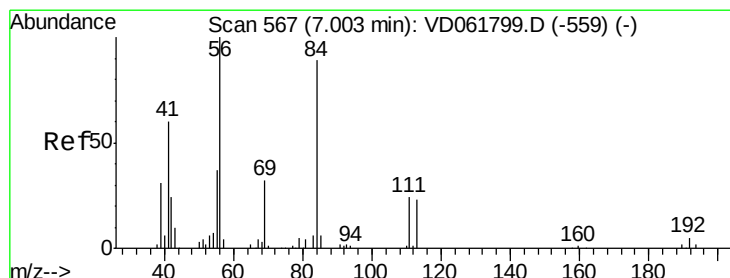
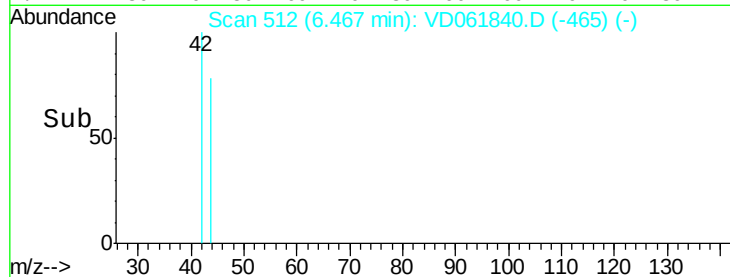
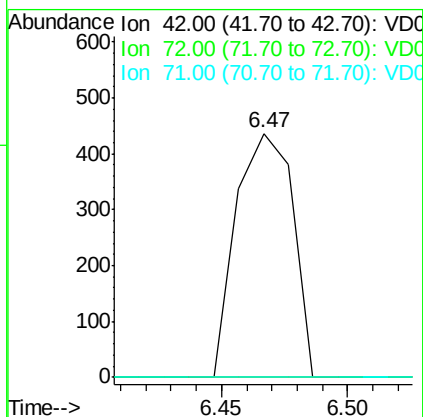
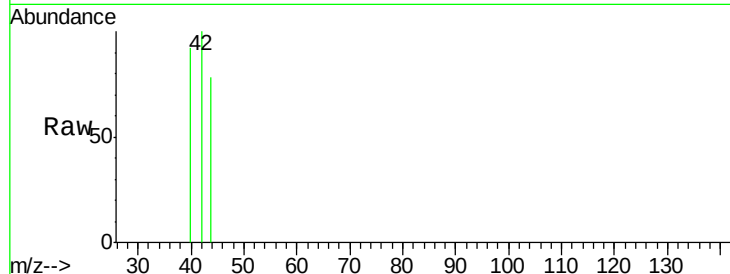




#29
Tetrahydrofuran
Concen: 1.423 ug/l
RT: 6.47 min Scan# 512
Delta R.T. -0.03 min
Lab File: VD061840.D
Acq: 17 Apr 2019 7:27

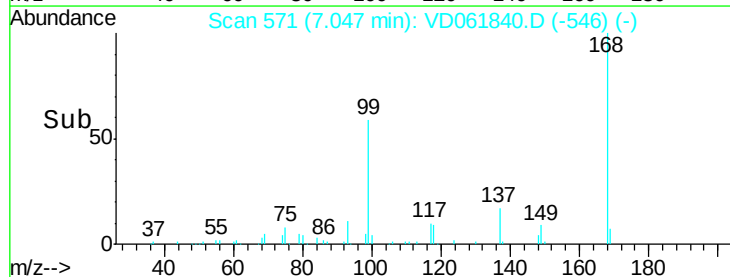
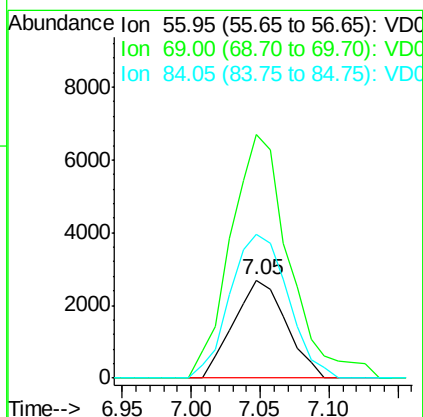
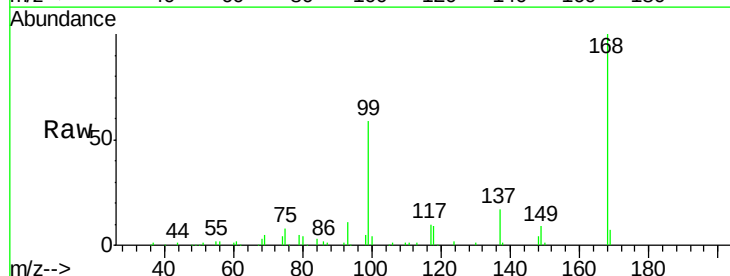
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ClientSampleId :

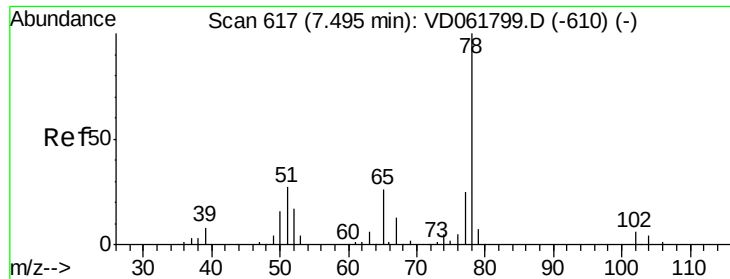
Tot Ion: 42 Resp: 683
Ion Ratio Lower Upper
42 100
72 0.0 37.8 56.6#
71 0.0 36.7 55.1#



#31
Cyclohexane
Concen: 1.340 ug/l
RT: 7.05 min Scan# 571
Delta R.T. 0.04 min
Lab File: VD061840.D
Acq: 17 Apr 2019 7:27

Tgt Ion: 56 Resp: 7126
Ion Ratio Lower Upper
56 100
69 247.8 25.8 38.6#
84 146.3 72.2 108.4#

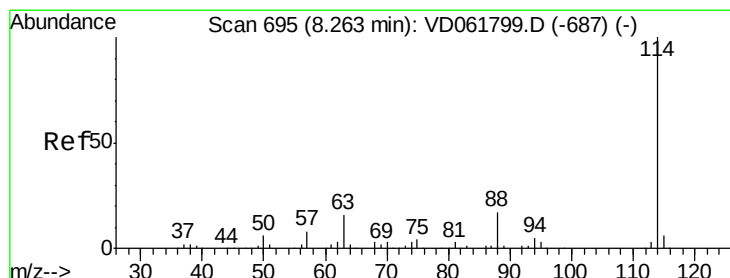
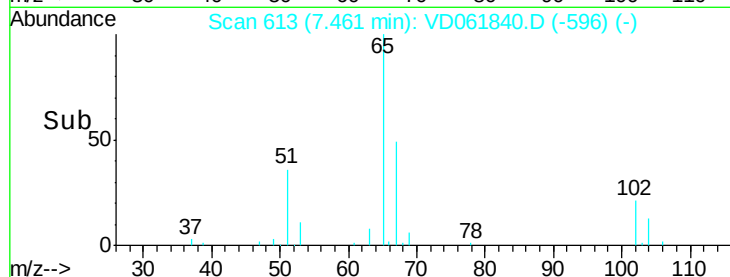
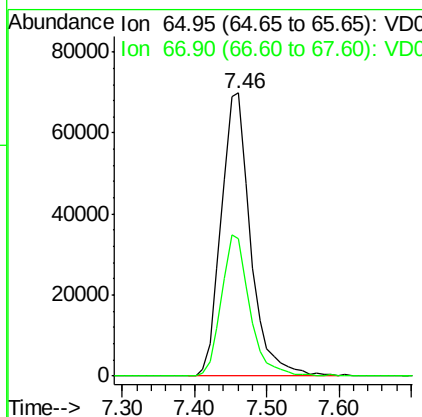
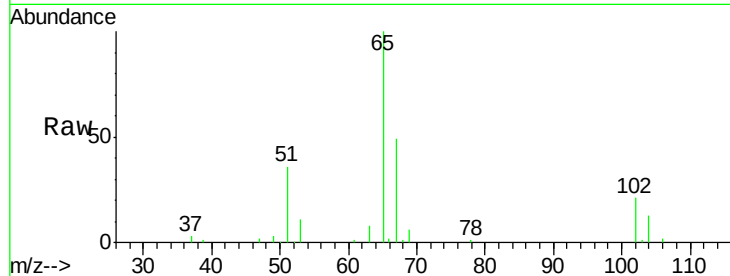




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.46 min Scan# 613
 Delta R.T. -0.03 min
 Lab File: VD061840.D
 Acq: 17 Apr 2019 7:27

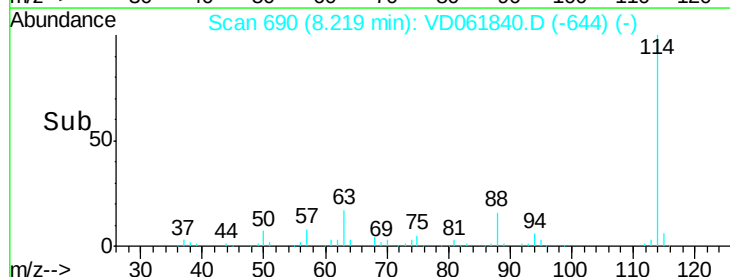
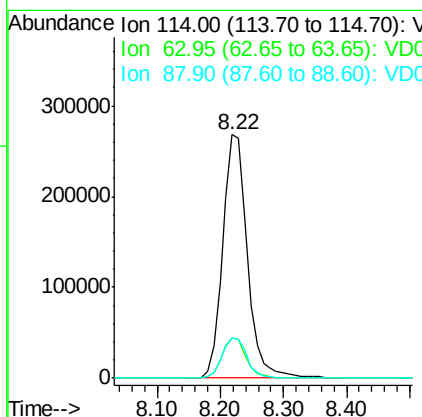
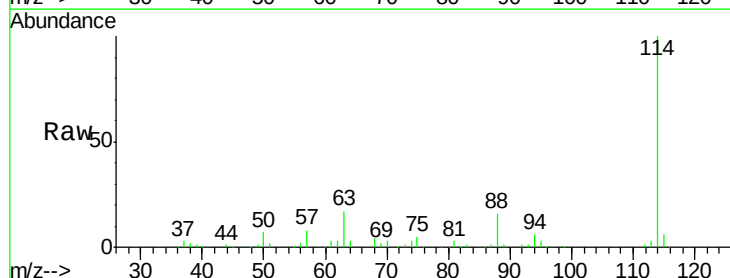
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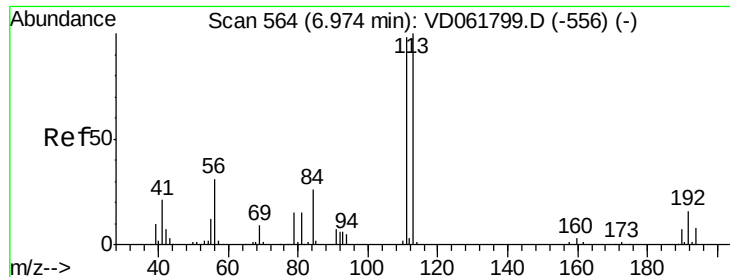
Tot Ion: 65 Resp: 197717
 Ion Ratio Lower Upper
 65 100
 67 48.6 0.0 98.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. -0.04 min
 Lab File: VD061840.D
 Acq: 17 Apr 2019 7:27

Tgt Ion: 114 Resp: 726524
 Ion Ratio Lower Upper
 114 100
 63 16.7 0.0 32.4
 88 16.2 0.0 33.6

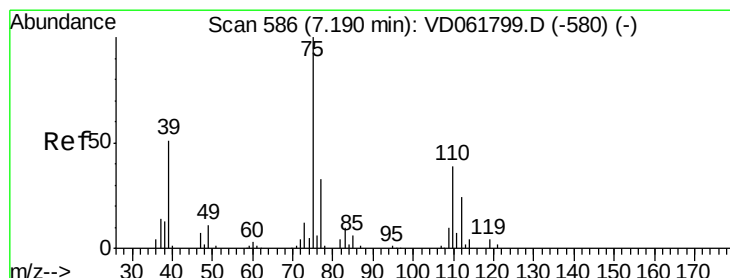
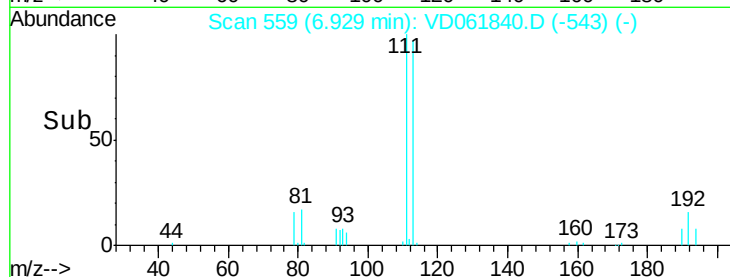
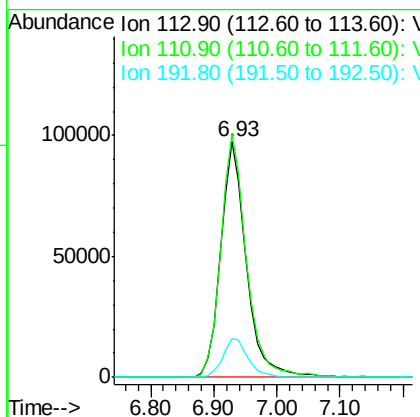
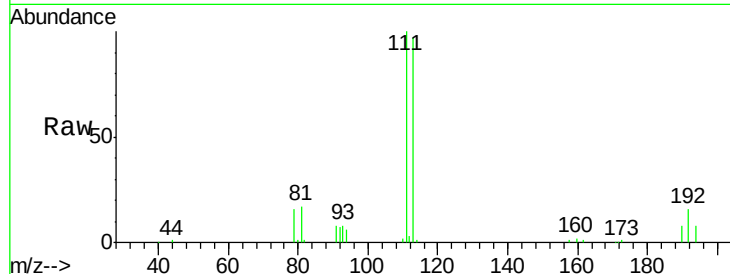




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. -0.04 min
 Lab File: VD061840.D
 Acq: 17 Apr 2019 7:27

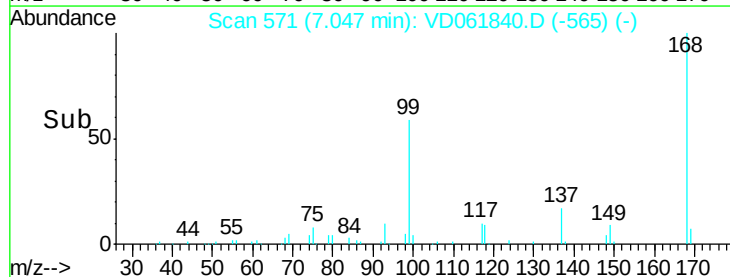
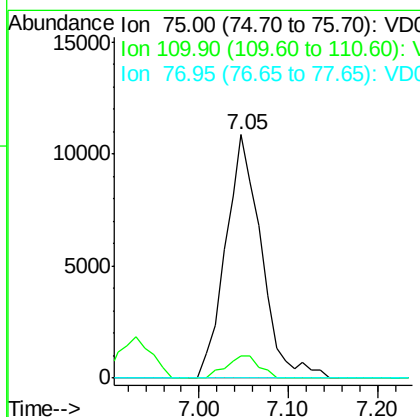
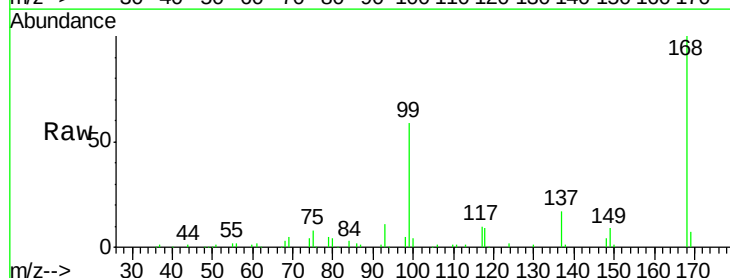
Instrument :
 MSVOA_D
 ClientSampleId :

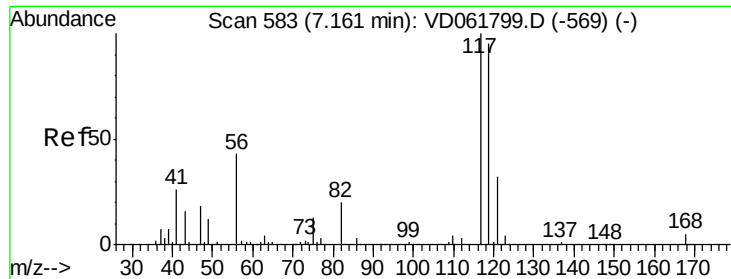
Tot Ion:113 Resp: 275371
 Ion Ratio Lower Upper
 113 100
 111 103.3 78.5 117.7
 192 16.5 13.0 19.4



#36
 1,1-Dichloropropene
 Concen: 5.110 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.14 min
 Lab File: VD061840.D
 Acq: 17 Apr 2019 7:27

Tgt Ion: 75 Resp: 30337
 Ion Ratio Lower Upper
 75 100
 110 9.1 19.1 57.1#
 77 0.0 25.6 38.4#





#38

Carbon Tetrachloride

Concen: 5.424 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.11 min

Lab File: VD061840.D

Acq: 17 Apr 2019 7:27

Instrument :

MSVOA_D

ClientSampleId :

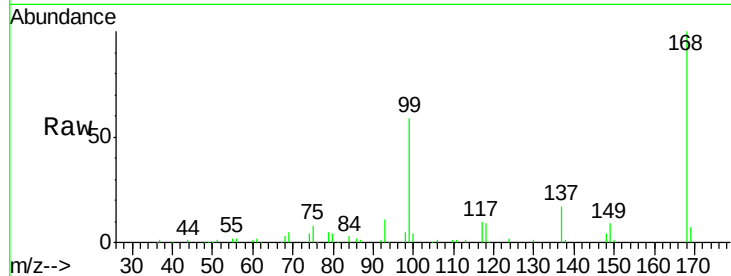
Tot Ion:117 Resp: 40661

Ion Ratio Lower Upper

117 100

119 4.9 75.8 113.8#

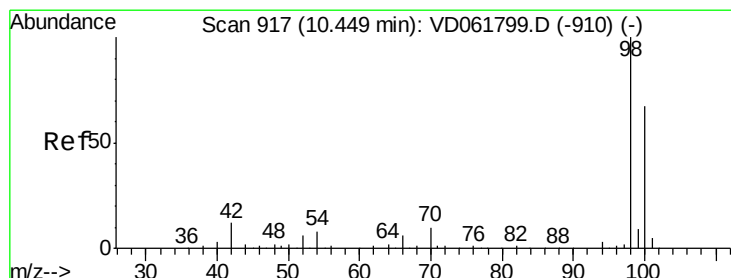
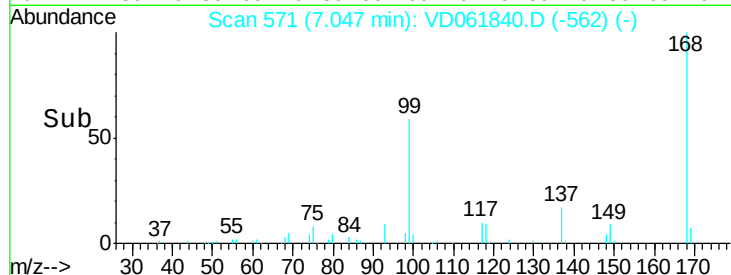
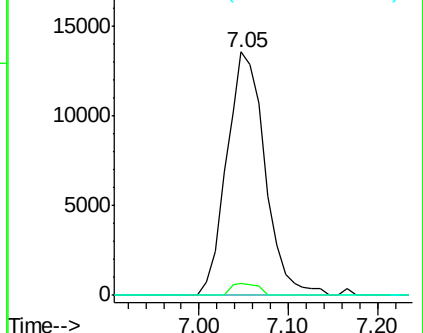
121 0.0 25.9 38.9#



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: 10.41 min Scan# 913

Delta R.T. -0.03 min

Lab File: VD061840.D

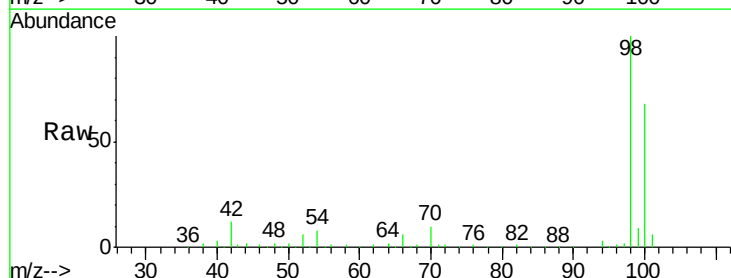
Acq: 17 Apr 2019 7:27

Tgt Ion: 98 Resp: 576757

Ion Ratio Lower Upper

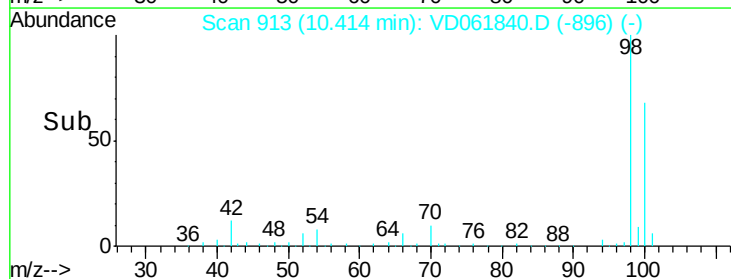
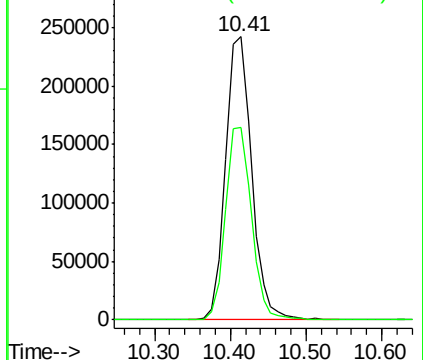
98 100

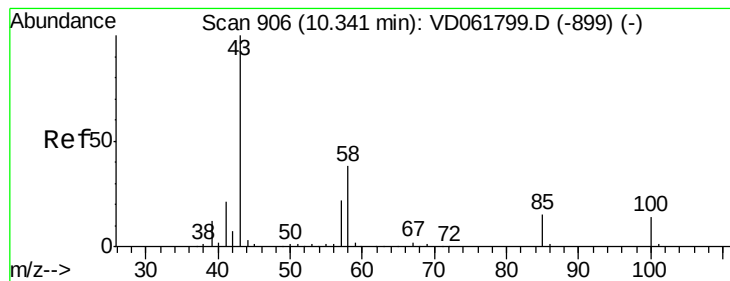
100 68.0 53.8 80.8



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: 1.059 ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.07 min

Lab File: VD061840.D

Acq: 17 Apr 2019 7:27

Instrument :

MSVOA_D

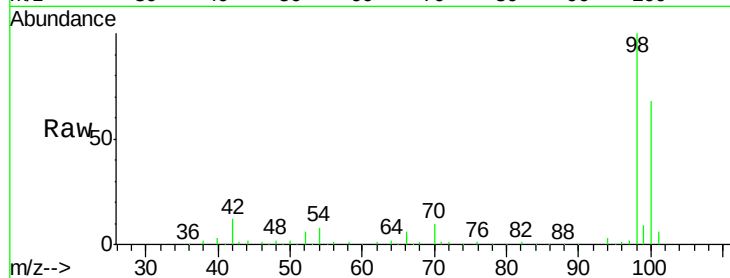
ClientSampleId :

Tot Ion: 43 Resp: 2316

Ion Ratio Lower Upper

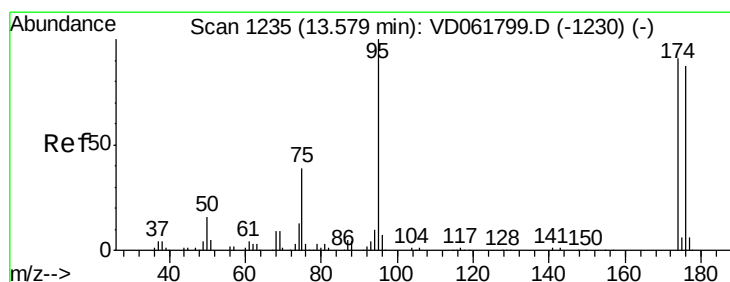
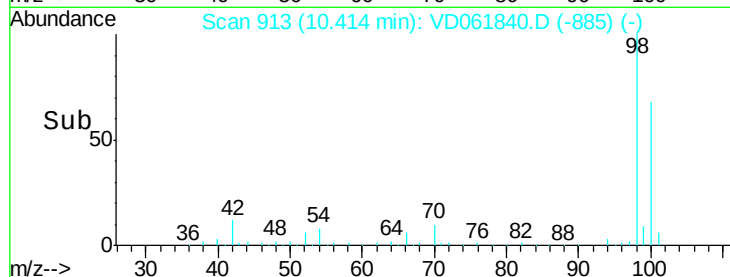
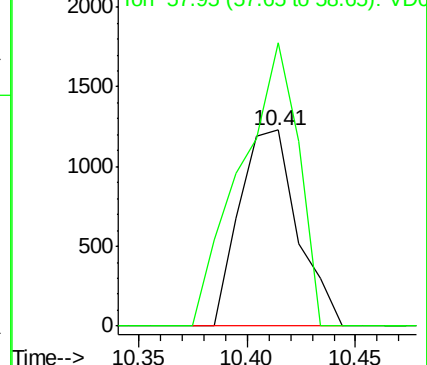
43 100

58 144.5 30.4 45.6#



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: 13.55 min Scan# 1232

Delta R.T. -0.02 min

Lab File: VD061840.D

Acq: 17 Apr 2019 7:27

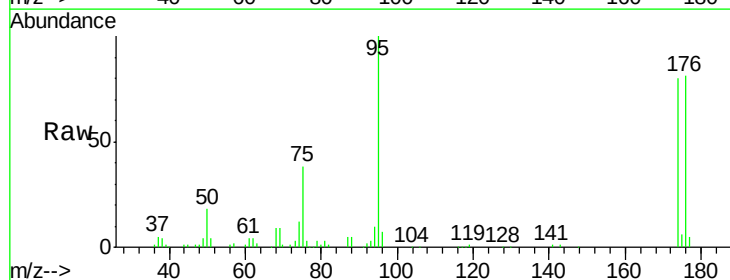
Tgt Ion: 95 Resp: 237262

Ion Ratio Lower Upper

95 100

174 80.2 0.0 181.8

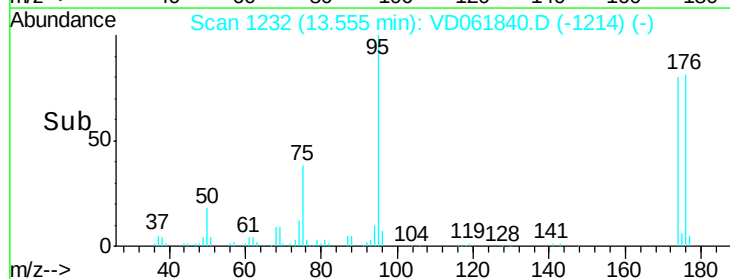
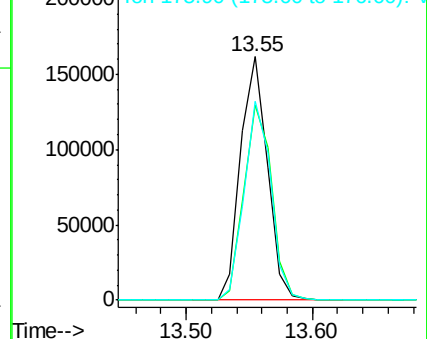
176 81.5 0.0 174.4

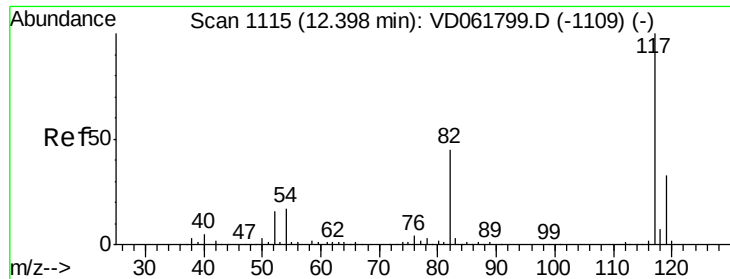


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

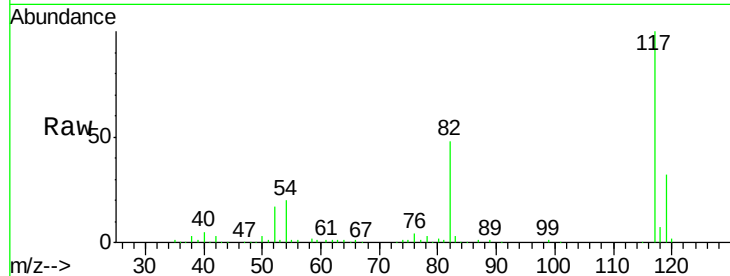




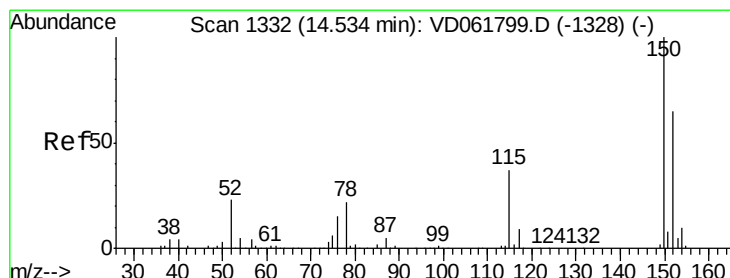
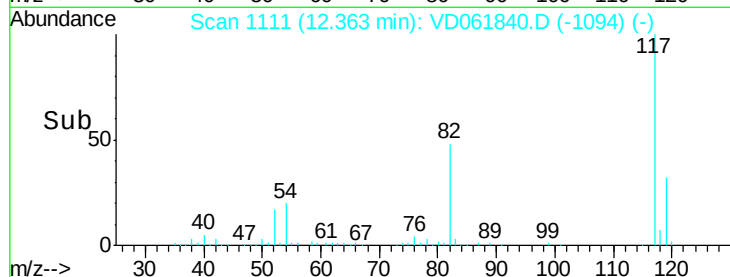
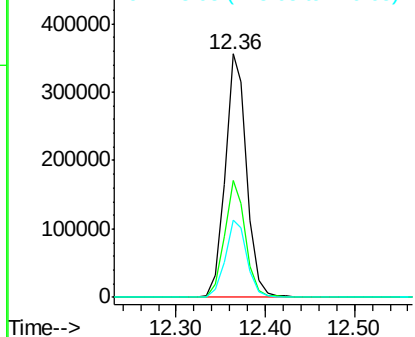
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.03 min
Lab File: VD061840.D
Acq: 17 Apr 2019 7:27

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 605716
Ion Ratio Lower Upper
117 100
82 48.1 36.2 54.2
119 31.9 26.2 39.4

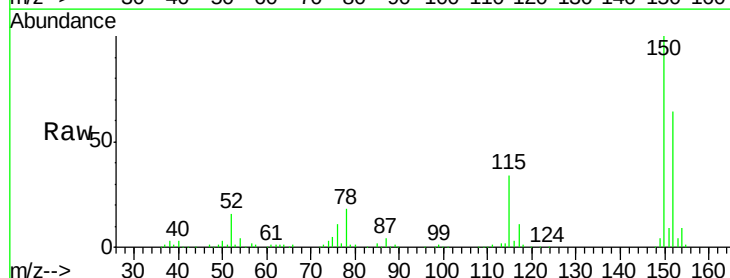


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

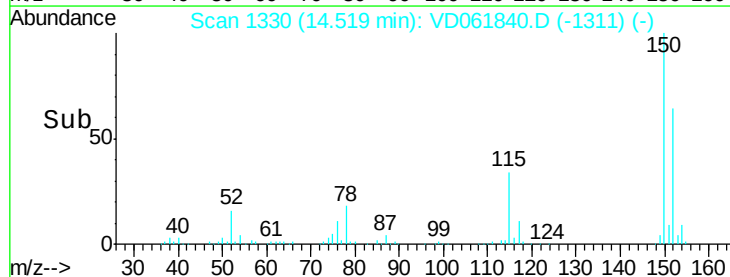
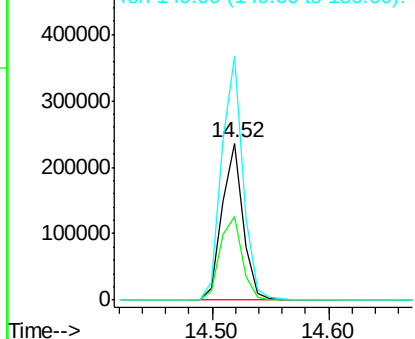


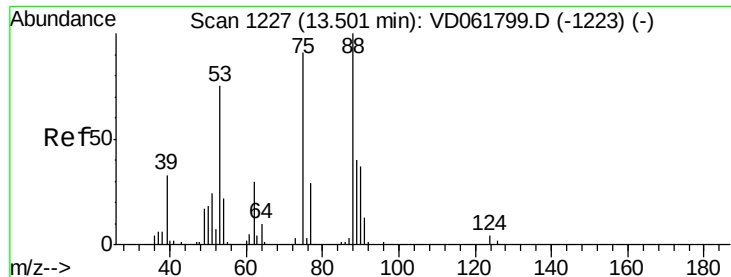
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.01 min
Lab File: VD061840.D
Acq: 17 Apr 2019 7:27

Tgt Ion:152 Resp: 295078
Ion Ratio Lower Upper
152 100
115 53.1 30.9 92.7
150 155.5 0.0 314.8



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: 70.125 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.05 min

Lab File: VD061840.D

Acq: 17 Apr 2019 7:27

Instrument :

MSVOA_D

ClientSampleId :

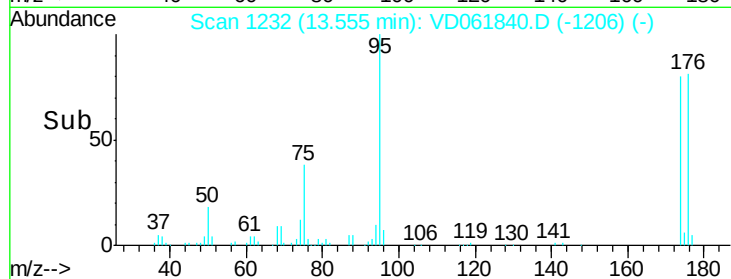
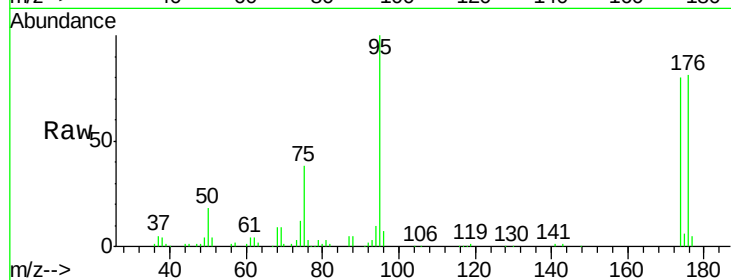
Tot Ion: 75 Resp: 89878

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

89 0.0 35.0 52.6#



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

