

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040319\
 Data File : VD061564.D
 Acq On : 3 Apr 2019 19:15
 Operator : VA/AP
 Sample : K2209-06
 Misc : 5.96g/5ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 04 01:51:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 09:22:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	512264	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.22	114	848551	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.36	117	638034	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	289273	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	188107	42.99	ug/l	0.02
Spiked Amount			Recovery	=	85.98%	
35) Dibromofluoromethane	6.92	113	286464	44.18	ug/l	0.02
Spiked Amount			Recovery	=	88.36%	
50) Toluene-d8	10.41	98	642243	41.29	ug/l	0.03
Spiked Amount			Recovery	=	82.58%	
62) 4-Bromofluorobenzene	13.55	95	235527	39.49	ug/l	0.00
Spiked Amount			Recovery	=	78.98%	

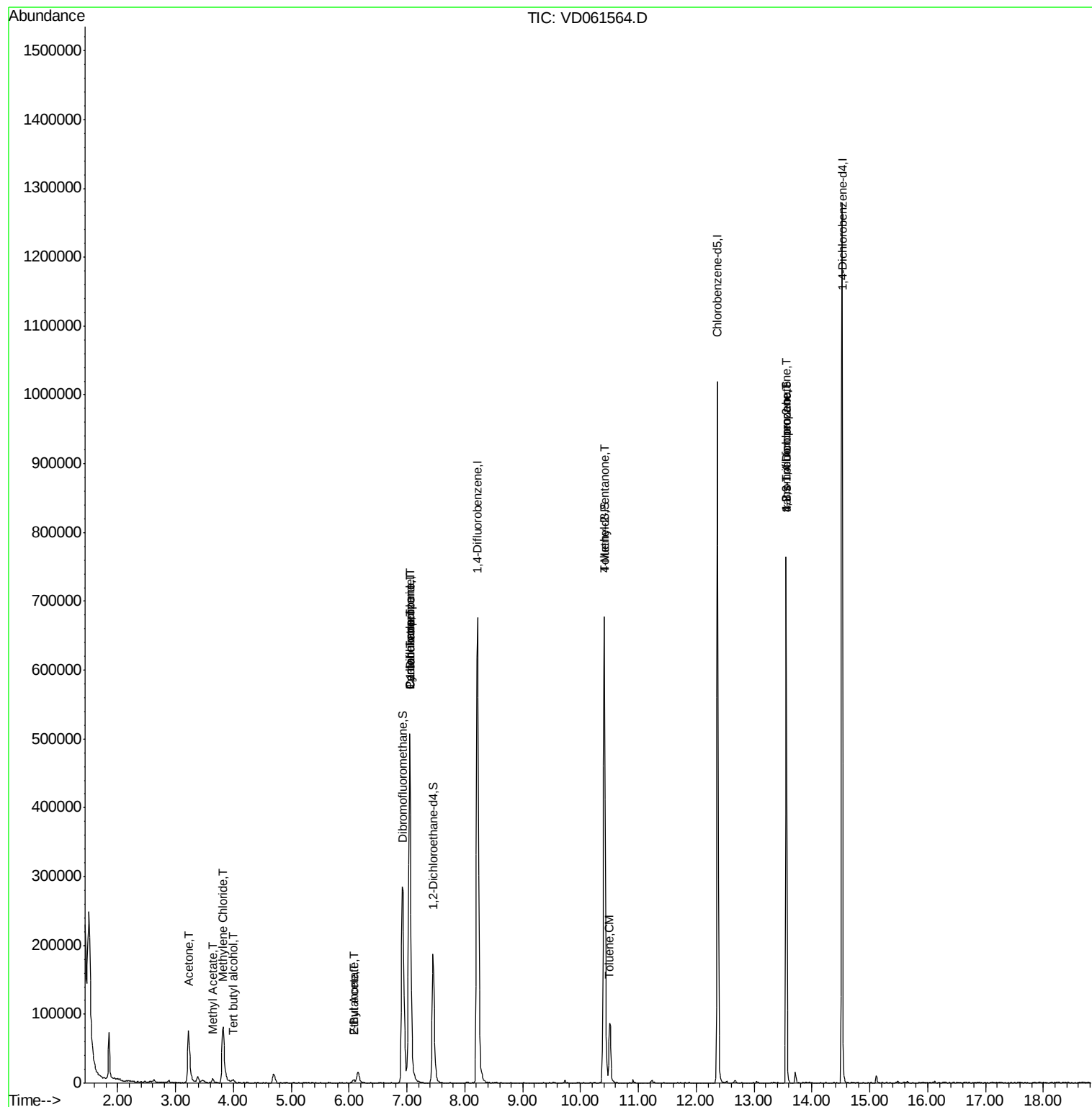
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.01	59	4503	16.523	ug/l #	76
16) Acetone	3.23	43	153878	136.791	ug/l	98
18) Methyl Acetate	3.64	43	10098	4.269	ug/l	98
20) Methylene Chloride	3.82	84	70330	9.609	ug/l	95
25) 2-Butanone	6.07	43	12979	9.172	ug/l #	83
31) Cyclohexane	7.04	56	8756	1.162	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	37920	5.120	ug/l #	47
37) Ethyl Acetate	6.07	43	12979	4.098	ug/l #	65
38) Carbon Tetrachloride	7.05	117	49903	5.864	ug/l #	13
51) 4-Methyl-2-Pentanone	10.40	43	3088	1.101	ug/l #	1
52) Toluene	10.51	92	51077	4.504	ug/l	94
76) 1,2,3-Trichloropropane	13.55	75	60386	14.451	ug/l #	46
81) trans-1,4-Dichloro-2-buten	13.55	75	88413	69.394	ug/l #	18

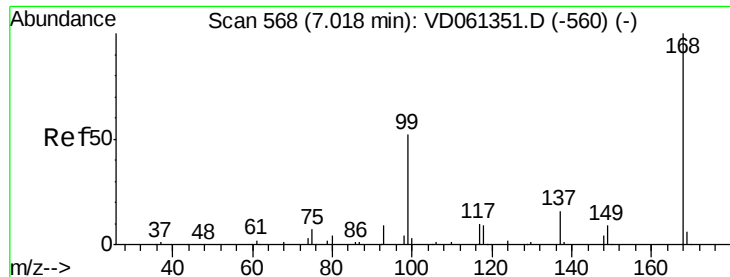
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD040319\
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.03 min

Lab File: VD061564.D

Acq: 3 Apr 2019 19:15

Instrument :

MSVOA_D

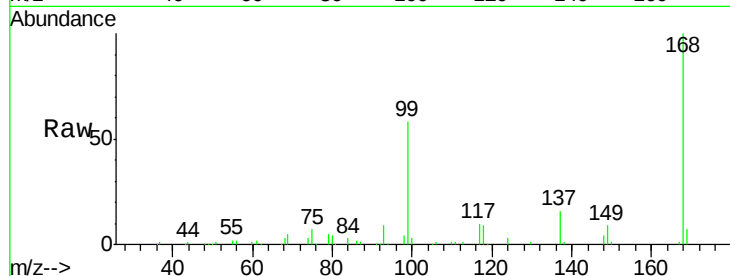
ClientSampled :

Tot Ion:168 Resp: 512264

Ion Ratio Lower Upper

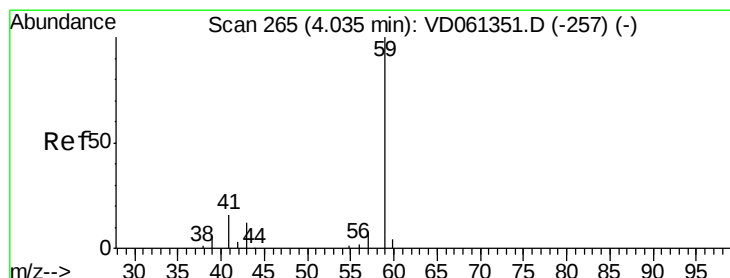
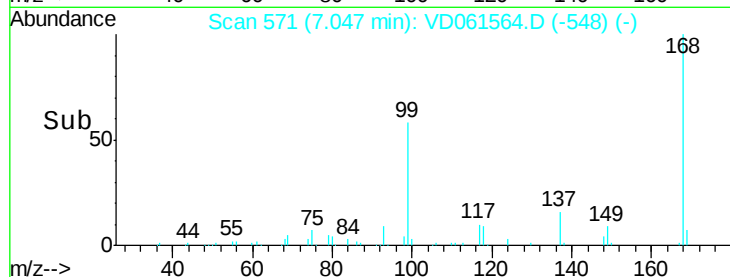
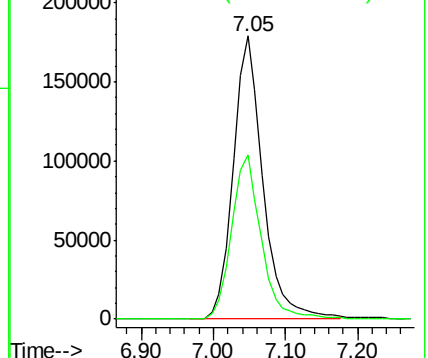
168 100

99 58.3 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 16.523 ug/l

RT: 4.01 min Scan# 262

Delta R.T. -0.03 min

Lab File: VD061564.D

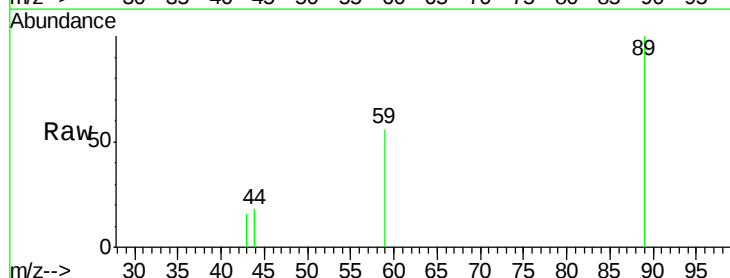
Acq: 3 Apr 2019 19:15

Tgt Ion: 59 Resp: 4503

Ion Ratio Lower Upper

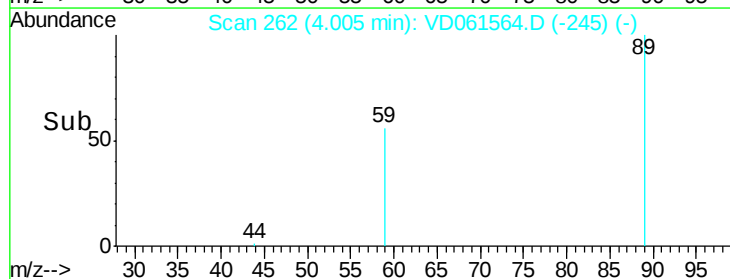
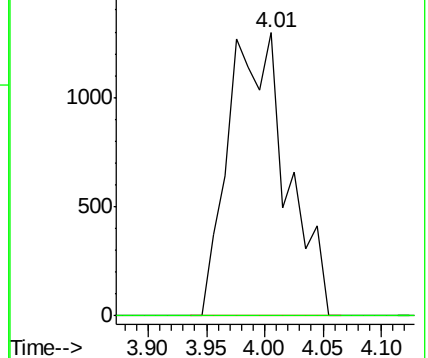
59 100

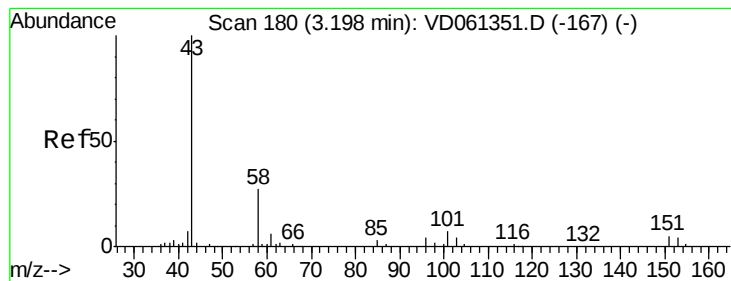
57 0.0 6.7 10.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 136.791 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.03 min

Lab File: VD061564.D

Acq: 3 Apr 2019 19:15

Instrument :

MSVOA_D

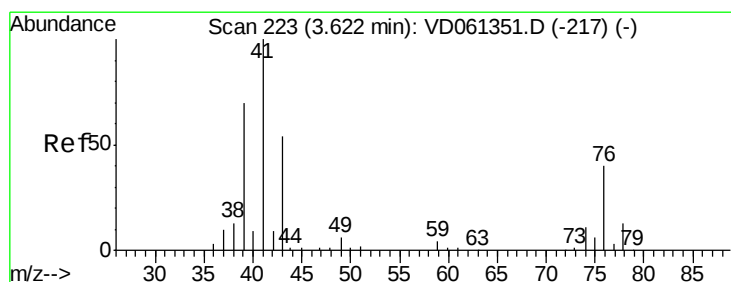
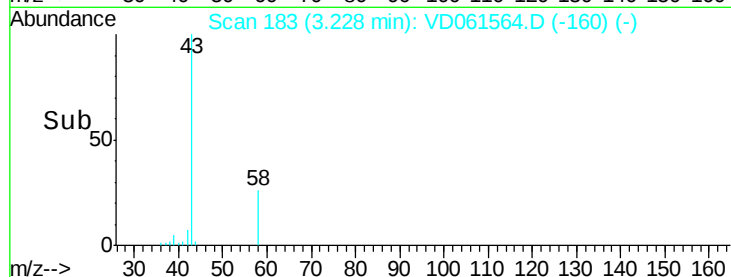
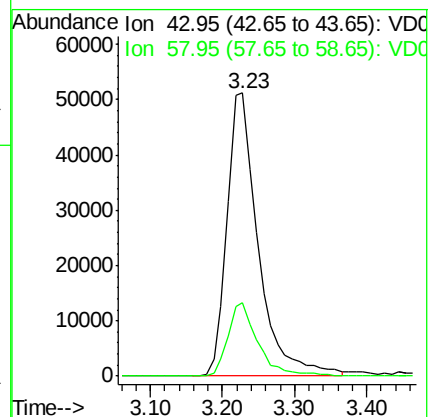
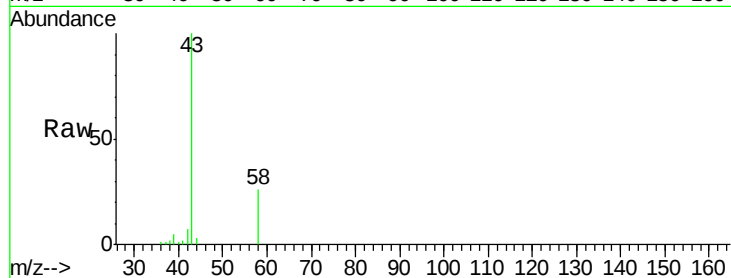
ClientSampleId :

Tot Ion: 43 Resp: 153878

Ion Ratio Lower Upper

43 100

58 26.1 21.5 32.3



#18

Methyl Acetate

Concen: 4.269 ug/l

RT: 3.64 min Scan# 225

Delta R.T. 0.02 min

Lab File: VD061564.D

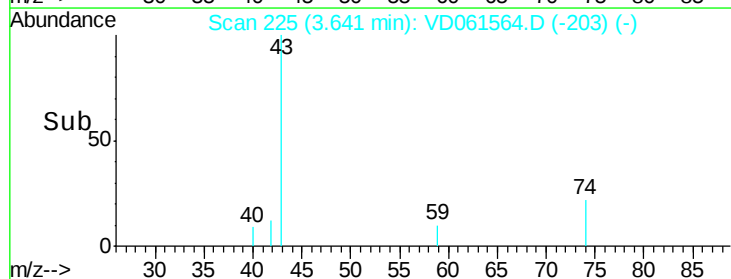
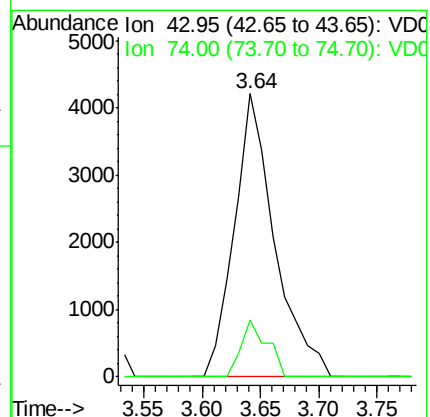
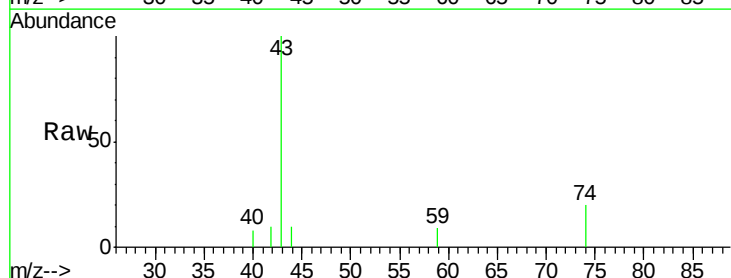
Acq: 3 Apr 2019 19:15

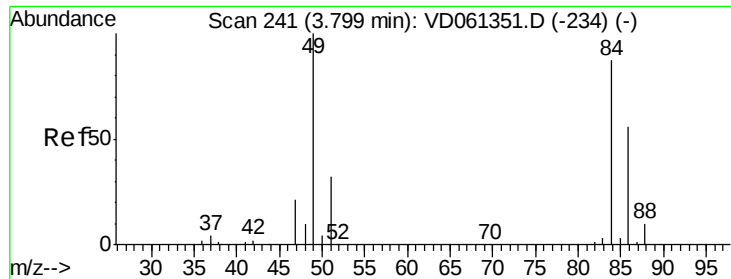
Tgt Ion: 43 Resp: 10098

Ion Ratio Lower Upper

43 100

74 20.0 16.7 25.1

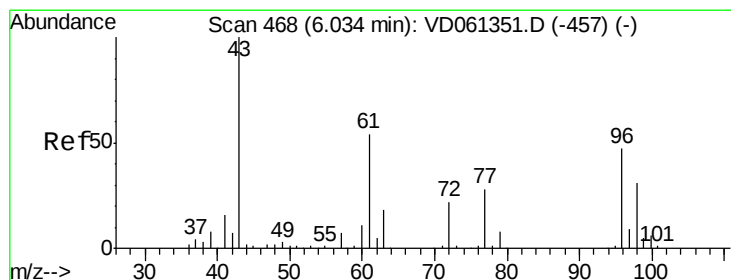
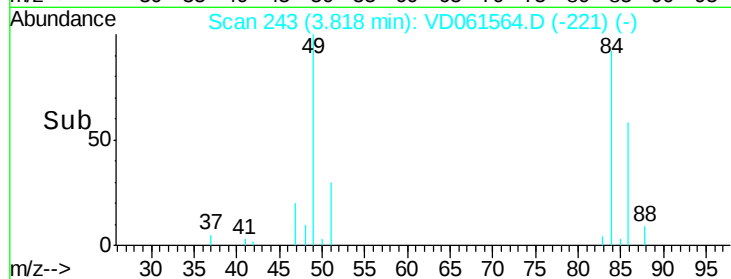
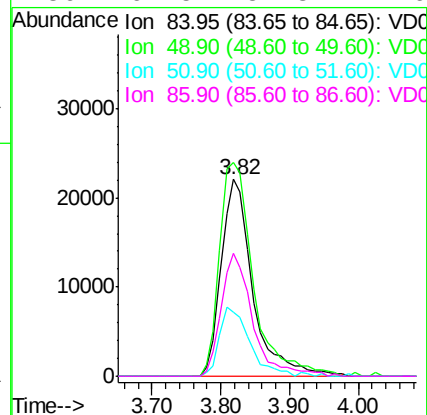
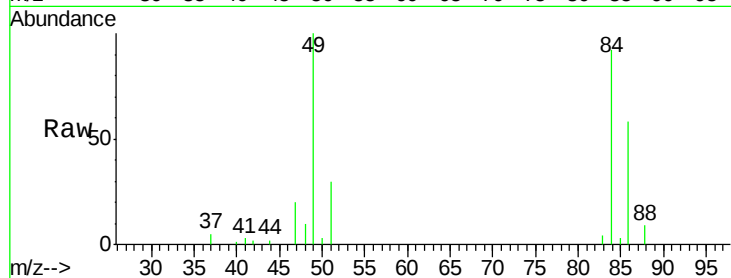




#20
Methvlene Chloride
Concen: 9.609 ug/l
RT: 3.82 min Scan# 243
Delta R.T. 0.02 min
Lab File: VD061564.D
Acq: 3 Apr 2019 19:15

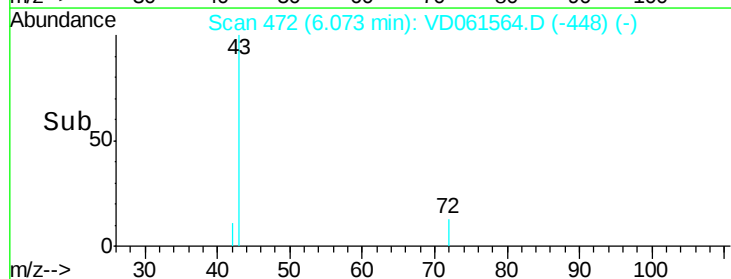
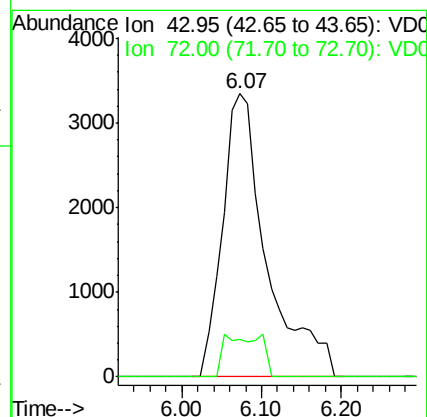
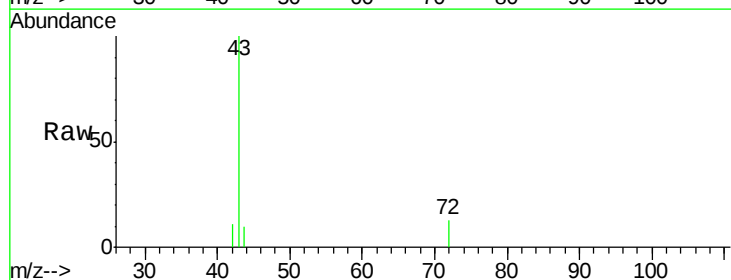
Instrument :
MSVOA_D
ClientSampleId :

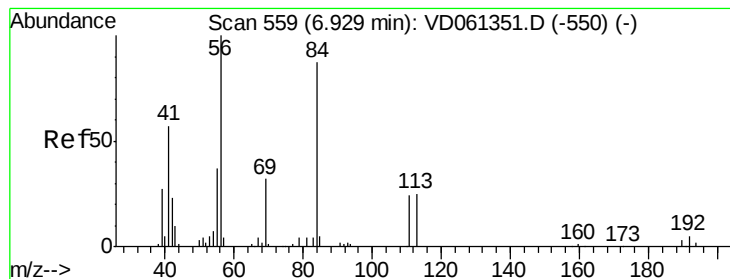
Tot Ion: 84 Resp: 70330
Ion Ratio Lower Upper
84 100
49 108.4 91.8 137.8
51 32.6 29.8 44.8
86 62.5 51.8 77.6



#25
2-Butanone
Concen: 9.172 ug/l
RT: 6.07 min Scan# 472
Delta R.T. 0.04 min
Lab File: VD061564.D
Acq: 3 Apr 2019 19:15

Tgt Ion: 43 Resp: 12979
Ion Ratio Lower Upper
43 100
72 13.5 17.2 25.8#





#31

Cyclohexane

Concen: 1.162 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.11 min

Lab File: VD061564.D

Acq: 3 Apr 2019 19:15

Instrument :
MSVOA_D
ClientSampleId :

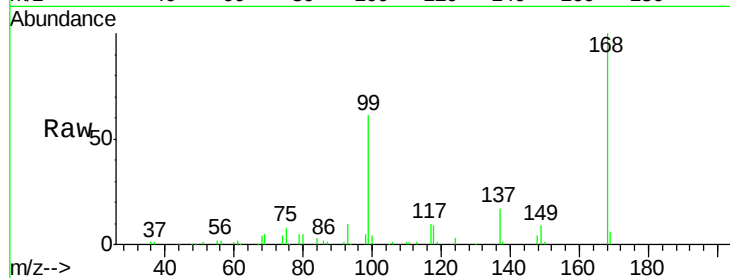
Tot Ion: 56 Resp: 8756

Ion Ratio Lower Upper

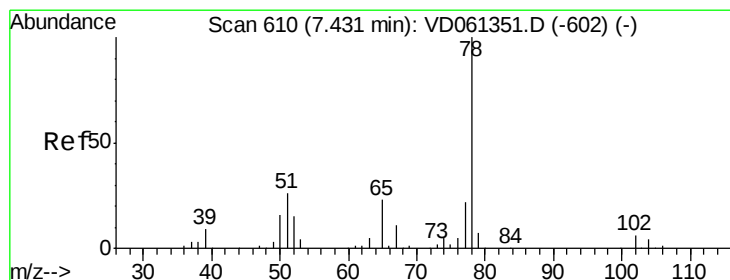
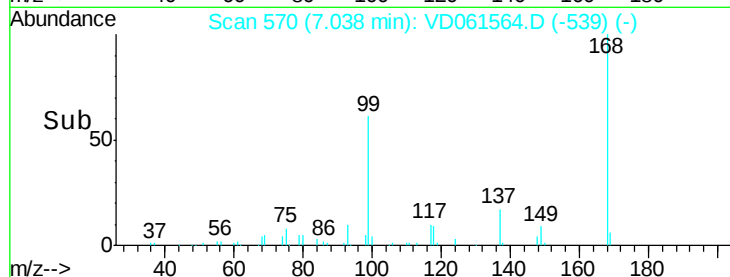
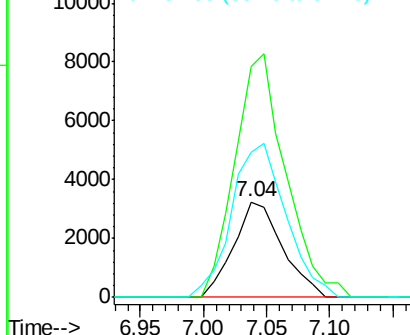
56 100

69 241.8 25.7 38.5#

84 151.9 70.6 105.8#



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: 7.45 min Scan# 612

Delta R.T. 0.02 min

Lab File: VD061564.D

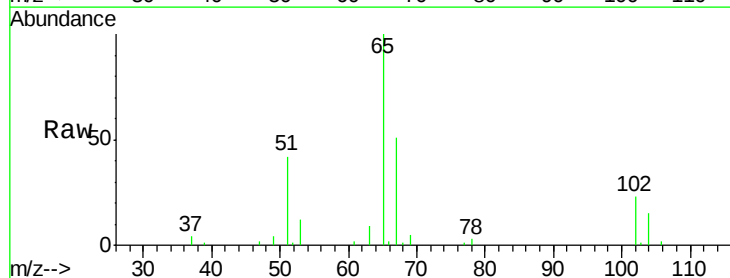
Acq: 3 Apr 2019 19:15

Tgt Ion: 65 Resp: 188107

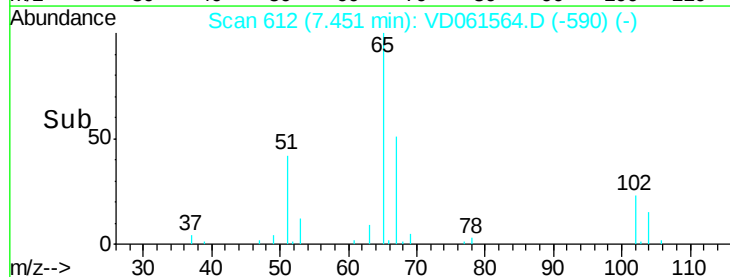
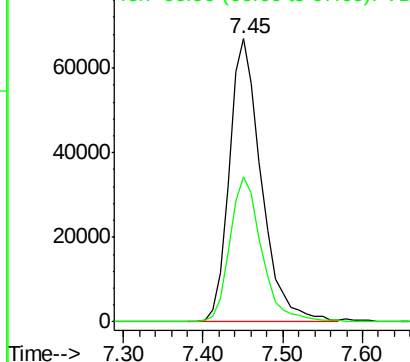
Ion Ratio Lower Upper

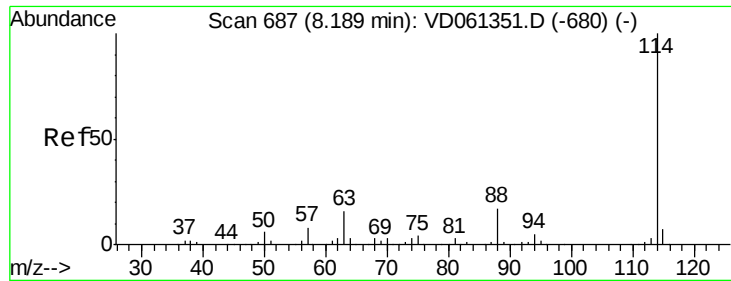
65 100

67 51.1 0.0 99.8



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

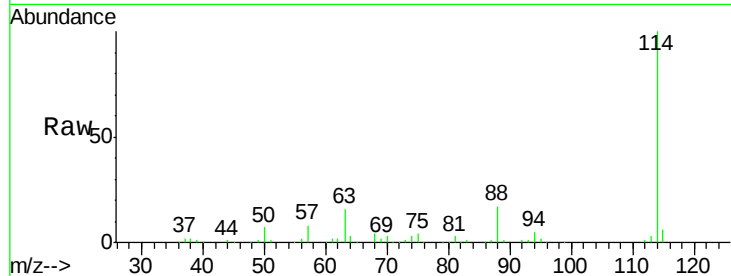




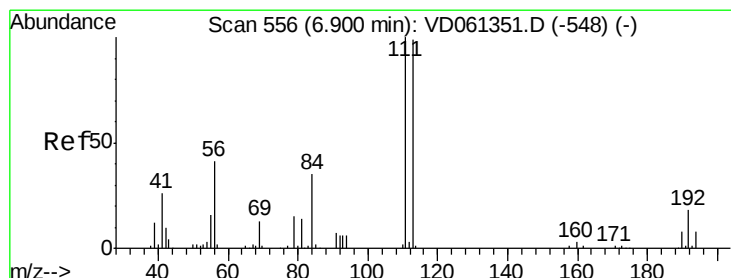
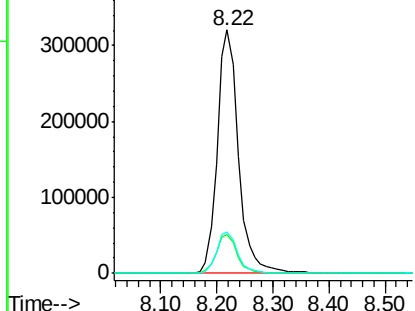
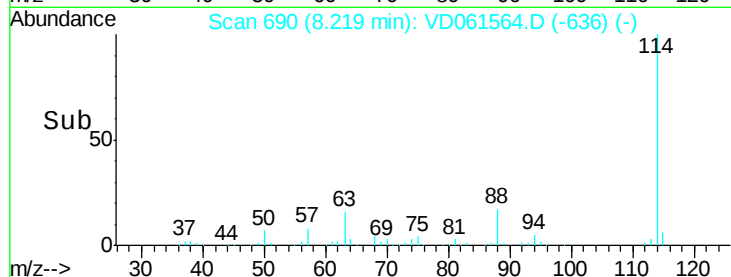
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. 0.03 min
 Lab File: VD061564.D
 Acq: 3 Apr 2019 19:15

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 848551
 Ion Ratio Lower Upper
 114 100
 63 16.0 0.0 31.6
 88 16.9 0.0 33.4

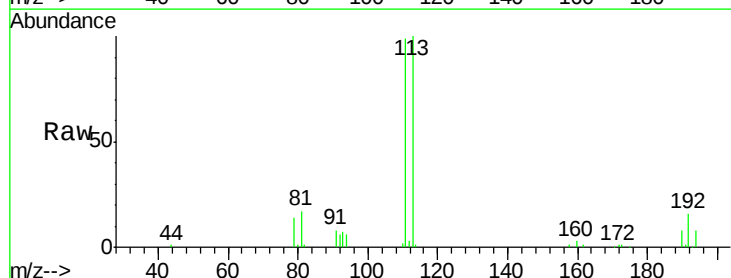


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

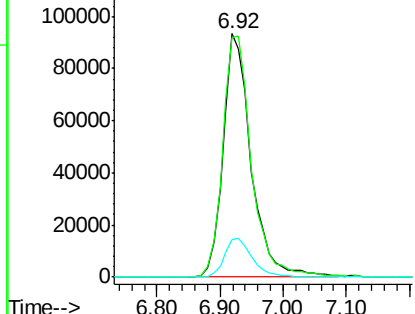
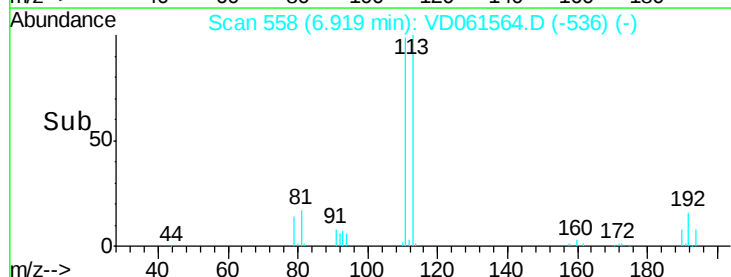


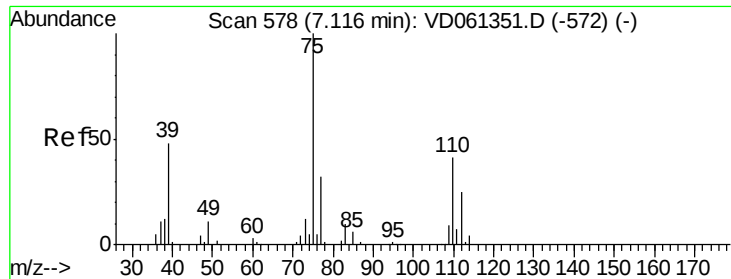
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. 0.02 min
 Lab File: VD061564.D
 Acq: 3 Apr 2019 19:15

Tgt Ion:113 Resp: 286464
 Ion Ratio Lower Upper
 113 100
 111 98.5 81.0 121.6
 192 15.7 14.4 21.6



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

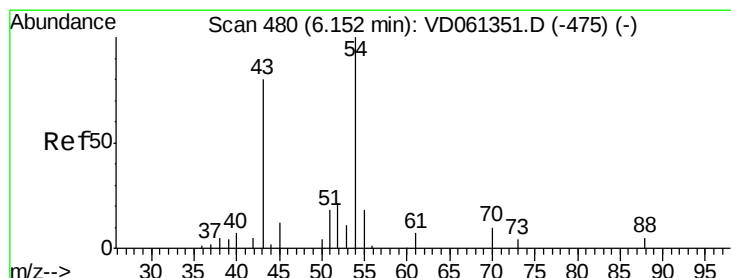
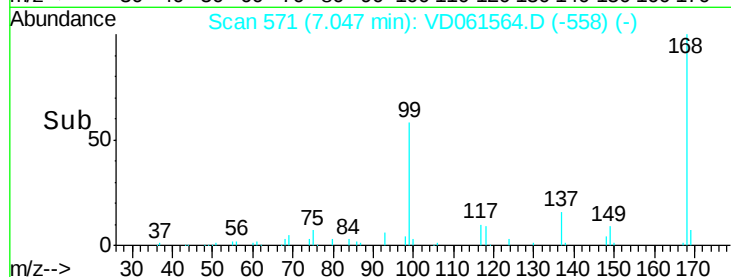
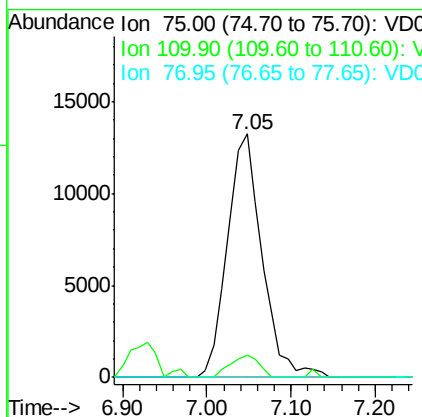
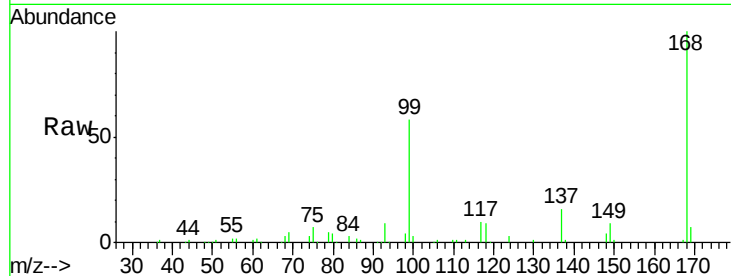




#36
 1,1-Dichloropropene
 Concen: 5.120 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.07 min
 Lab File: VD061564.D
 Acq: 3 Apr 2019 19:15

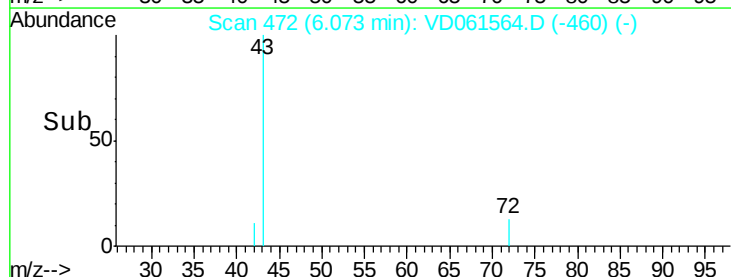
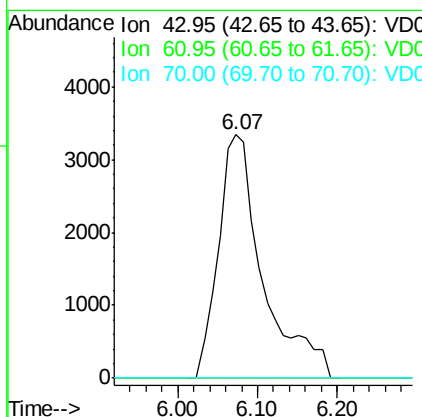
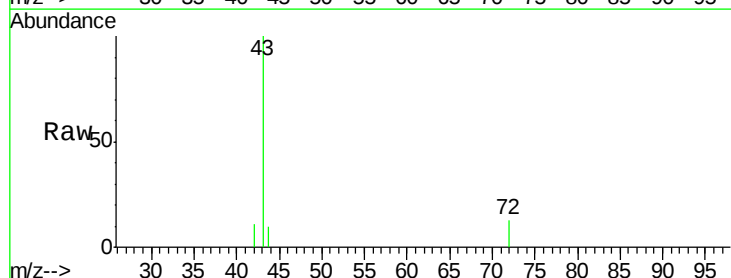
Instrument :
 MSVOA_D
 ClientSampleId :

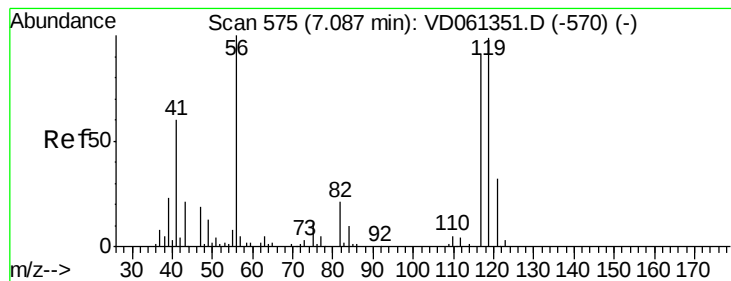
Tot Ion: 75 Resp: 37920
 Ion Ratio Lower Upper
 75 100
 110 9.0 20.4 61.3#
 77 0.0 24.9 37.3#



#37
 Ethyl Acetate
 Concen: 4.098 ug/l
 RT: 6.07 min Scan# 472
 Delta R.T. -0.08 min
 Lab File: VD061564.D
 Acq: 3 Apr 2019 19:15

Tgt Ion: 43 Resp: 12979
 Ion Ratio Lower Upper
 43 100
 61 0.0 13.8 20.8#
 70 0.0 7.8 11.8#





#38

Carbon Tetrachloride

Concen: 5.864 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.04 min

Lab File: VD061564.D

Acq: 3 Apr 2019 19:15

Instrument :

MSVOA_D

ClientSampleId :

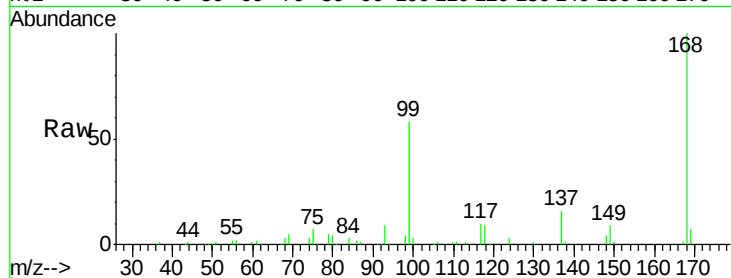
Tot Ion:117 Resp: 49903

Ion Ratio Lower Upper

117 100

119 4.0 80.1 120.1#

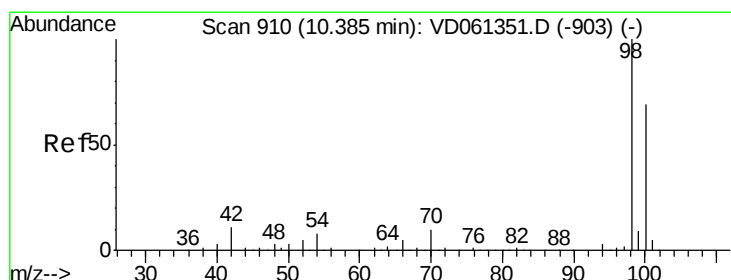
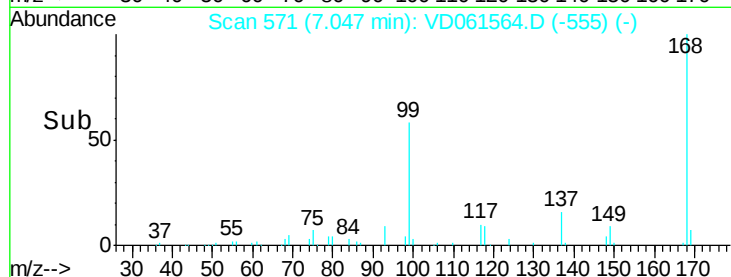
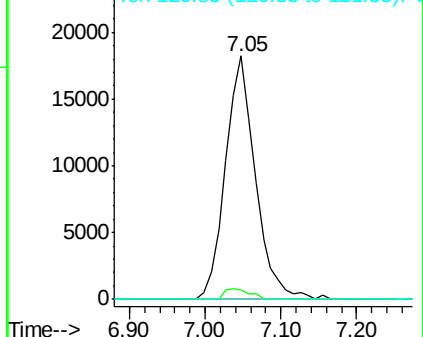
121 0.0 25.6 38.4#



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: VD061564.D

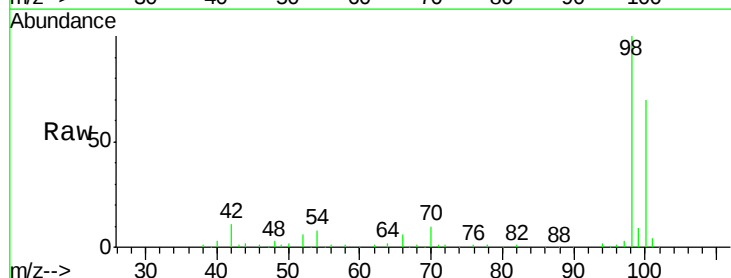
Acq: 3 Apr 2019 19:15

Tgt Ion: 98 Resp: 642243

Ion Ratio Lower Upper

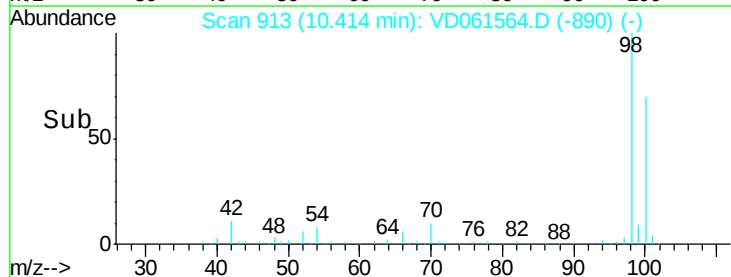
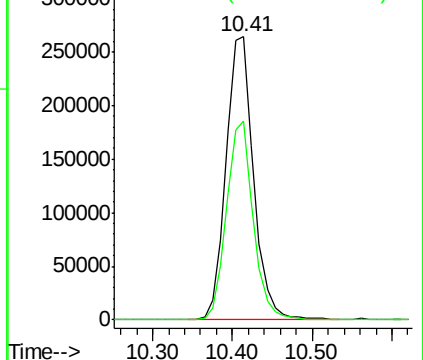
98 100

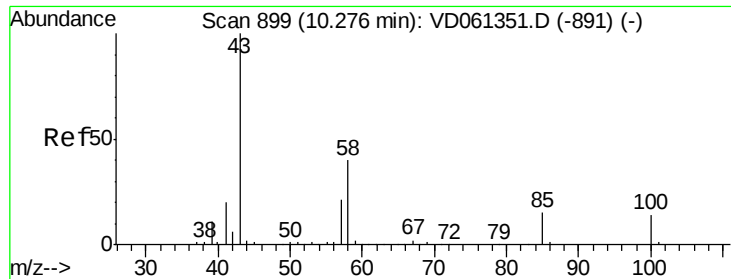
100 70.2 56.2 84.2



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: 1.101 ug/l

RT: 10.40 min Scan# 912

Delta R.T. 0.13 min

Lab File: VD061564.D

Acq: 3 Apr 2019 19:15

Instrument :

MSVOA_D

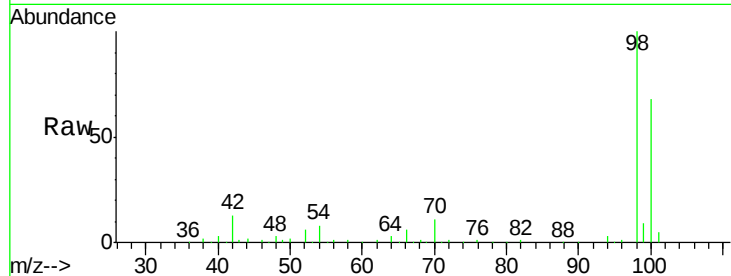
ClientSampleId :

Tot Ion: 43 Resp: 3088

Ion Ratio Lower Upper

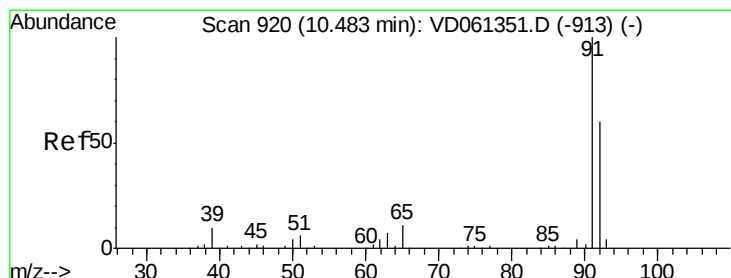
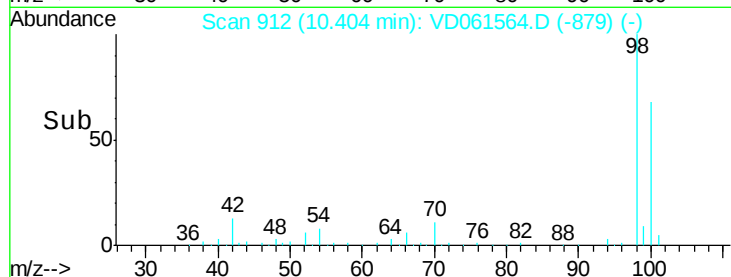
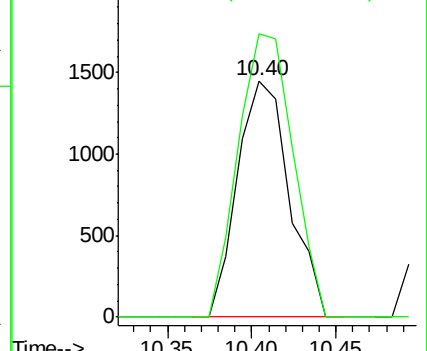
43 100

58 119.7 31.8 47.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 4.504 ug/l

RT: 10.51 min Scan# 923

Delta R.T. 0.03 min

Lab File: VD061564.D

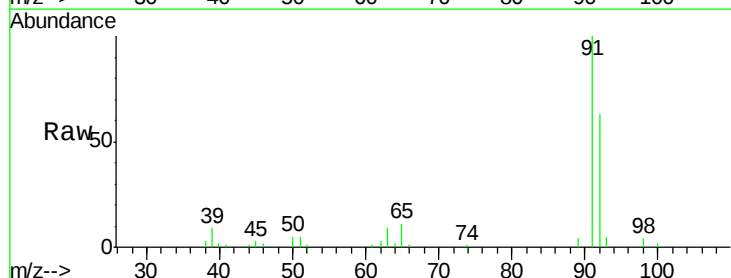
Acq: 3 Apr 2019 19:15

Tgt Ion: 92 Resp: 51077

Ion Ratio Lower Upper

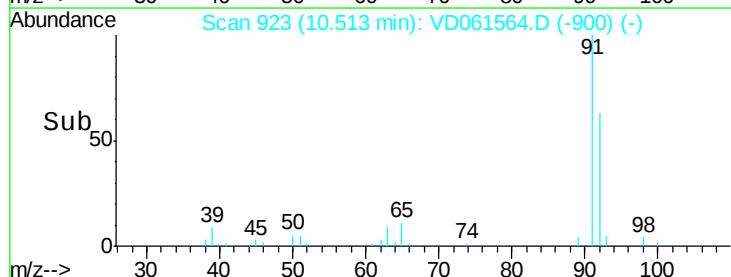
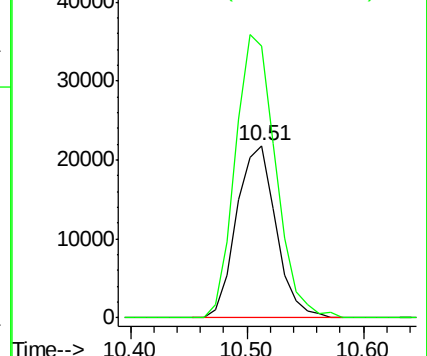
92 100

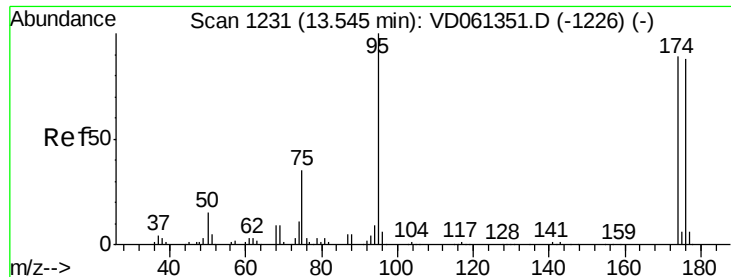
91 158.1 133.3 199.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

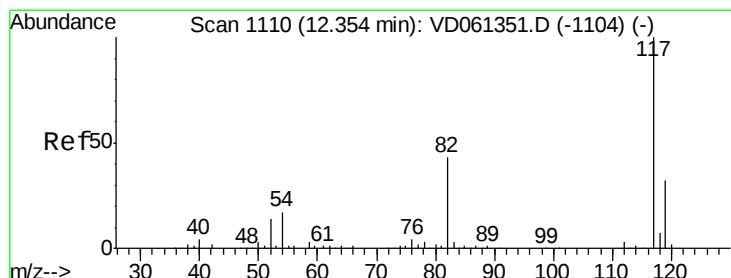
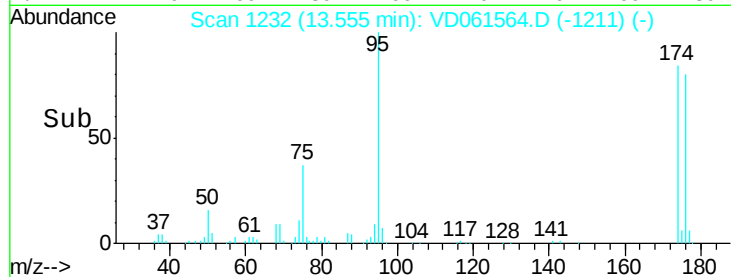
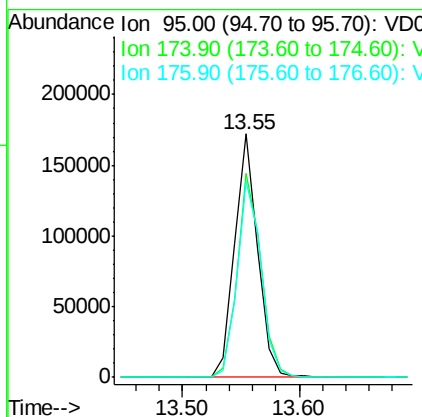
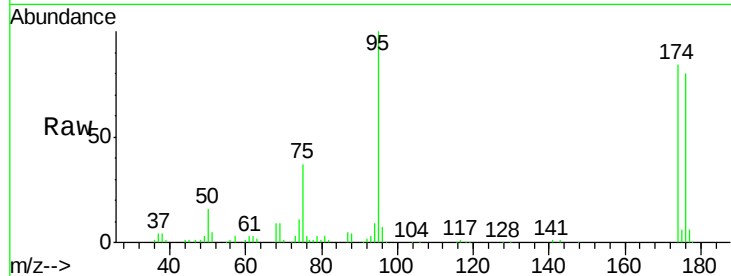




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.55 min Scan# 1232
Delta R.T. 0.01 min
Lab File: VD061564.D
Acq: 3 Apr 2019 19:15

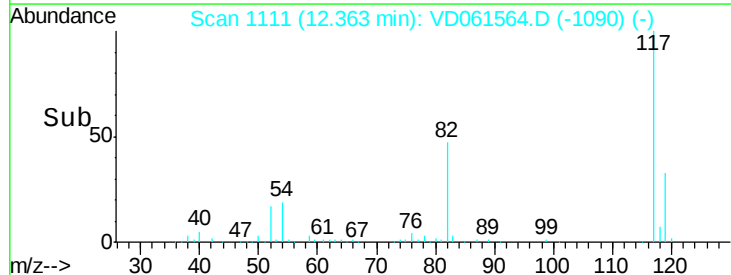
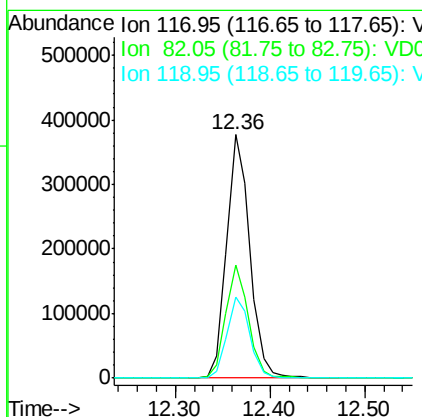
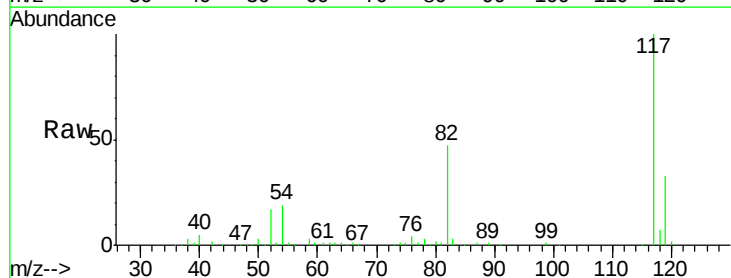
Instrument :
MSVOA_D
ClientSampleId :

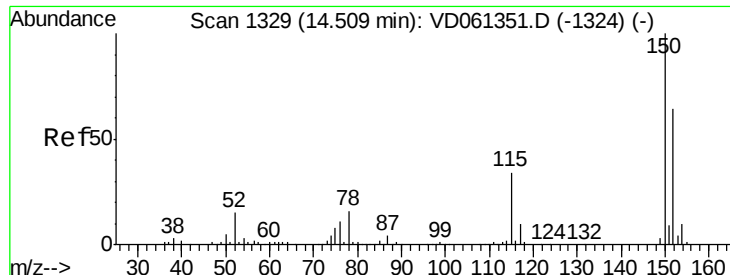
Tot Ion: 95 Resp: 235527
Ion Ratio Lower Upper
95 100
174 83.9 0.0 178.0
176 80.5 0.0 175.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.01 min
Lab File: VD061564.D
Acq: 3 Apr 2019 19:15

Tgt Ion: 117 Resp: 638034
Ion Ratio Lower Upper
117 100
82 46.5 34.4 51.6
119 33.1 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. 0.01 min

Lab File: VD061564.D

Acq: 3 Apr 2019 19:15

Instrument :

MSVOA_D

ClientSampled :

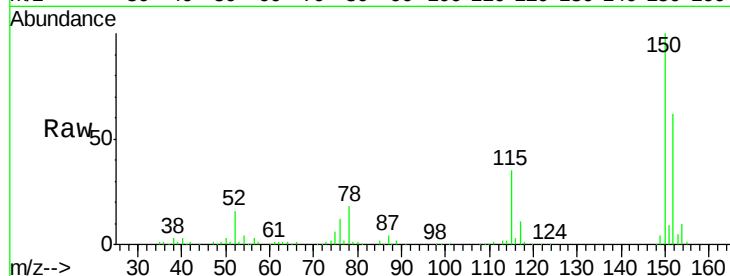
Tot Ion:152 Resp: 289273

Ion Ratio Lower Upper

152 100

115 56.9 26.9 80.6

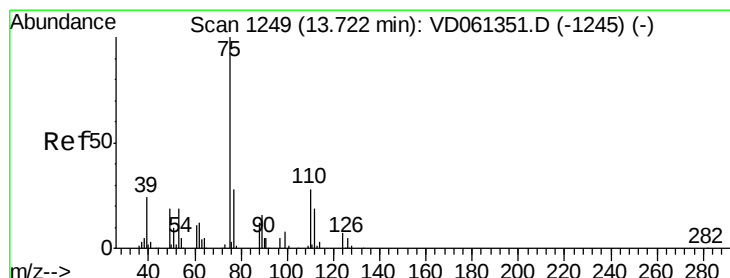
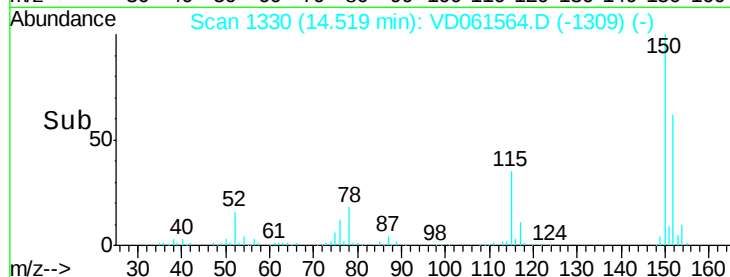
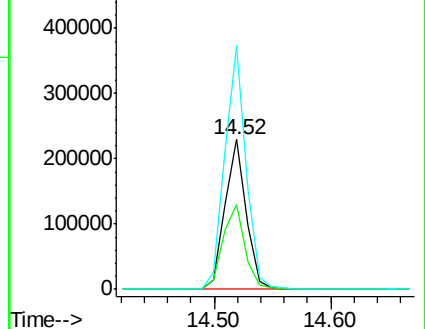
150 162.4 0.0 318.0



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



#76

1,2,3-Trichloropropane

Concen: 14.451 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD061564.D

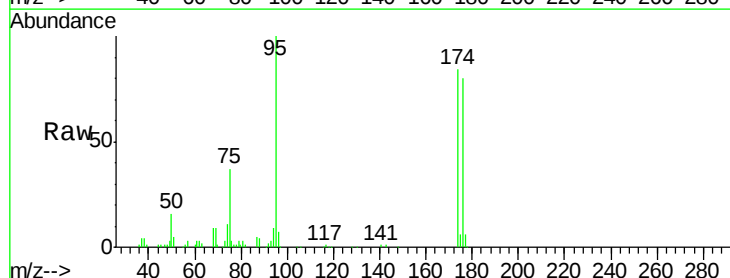
Acq: 3 Apr 2019 19:15

Tgt Ion: 75 Resp: 60386

Ion Ratio Lower Upper

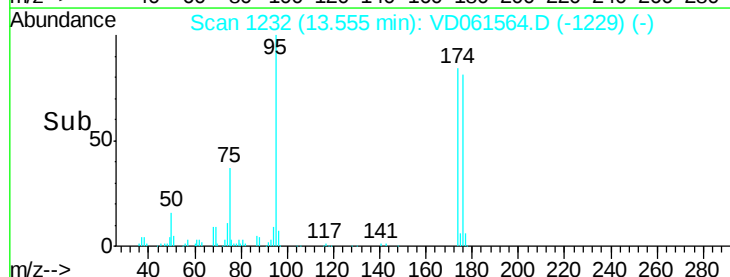
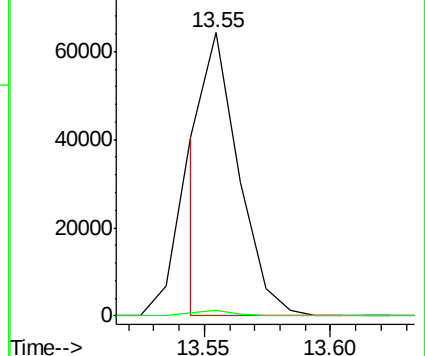
75 100

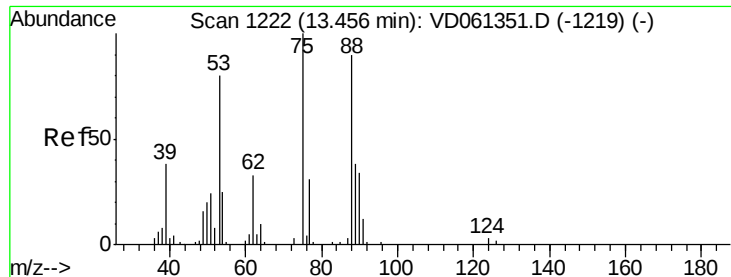
77 1.8 16.2 48.5#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 69.394 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.10 min

Lab File: VD061564.D

Acq: 3 Apr 2019 19:15

Instrument :

MSVOA_D

ClientSampleId :

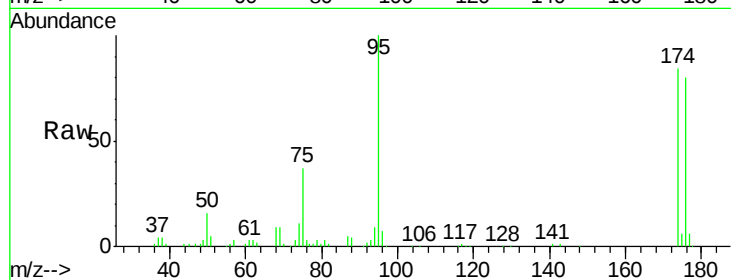
Tot Ion: 75 Resp: 88413

Ion Ratio Lower Upper

75 100

53 0.0 63.8 95.8#

89 0.0 30.5 45.7#



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

