

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040919\
 Data File : VD061681.D
 Acq On : 9 Apr 2019 18:11
 Operator : VA/AP
 Sample : K2309-01RE
 Misc : 5.97g/5ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 10 00:55:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D040619S.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 08 10:04:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.09	168	493265	50.00	ug/l	0.05
34) 1,4-Difluorobenzene	8.25	114	801484	50.00	ug/l	0.04
63) Chlorobenzene-d5	12.39	117	525081	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.53	152	202360	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.49	65	204057	54.58	ug/l	0.04
Spiked Amount			Recovery	=	109.16%	
35) Dibromofluoromethane	6.96	113	318579	57.38	ug/l	0.04
Spiked Amount			Recovery	=	114.76%	
50) Toluene-d8	10.44	98	704592	50.51	ug/l	0.03
Spiked Amount			Recovery	=	101.02%	
62) 4-Bromofluorobenzene	13.58	95	220481	43.81	ug/l	0.02
Spiked Amount			Recovery	=	87.62%	

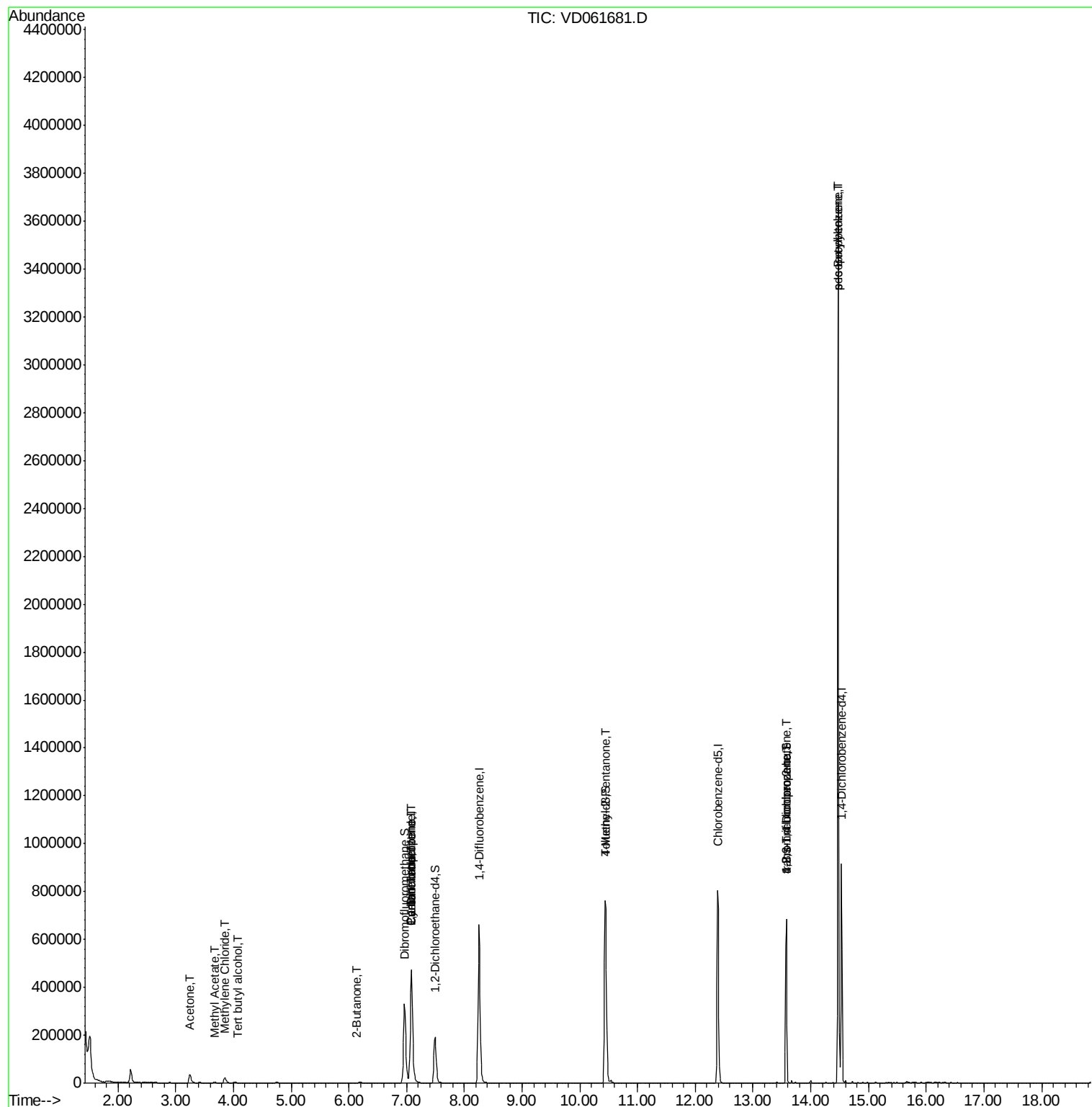
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.07	59	801	3.197	ug/l #	72
16) Acetone	3.24	43	71825	64.262	ug/l	96
18) Methyl Acetate	3.66	43	5420	2.577	ug/l #	90
20) Methylene Chloride	3.85	84	18846	2.971	ug/l	96
25) 2-Butanone	6.13	43	1323	1.027	ug/l #	54
31) Cyclohexane	7.08	56	8466	1.203	ug/l #	1
36) 1,1-Dichloropropene	7.08	75	36015	5.134	ug/l #	48
38) Carbon Tetrachloride	7.09	117	48981	5.958	ug/l #	14
51) 4-Methyl-2-Pentanone	10.44	43	2483	1.013	ug/l #	1
76) 1,2,3-Trichloropropane	13.58	75	82749	30.056	ug/l #	46
81) trans-1,4-Dichloro-2-buten	13.58	75	83153	99.532	ug/l #	20
85) sec-Butylbenzene	14.47	105	48239	3.460	ug/l	100
86) p-Isopropyltoluene	14.47	119	71187	5.886	ug/l #	1

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

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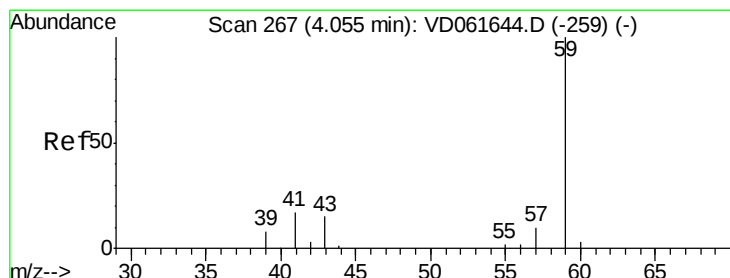
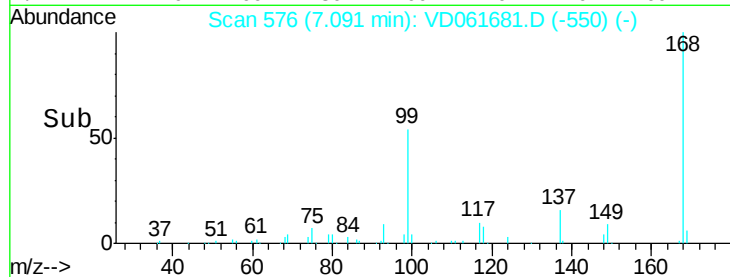
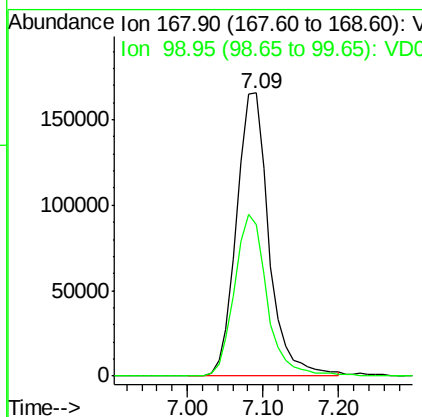
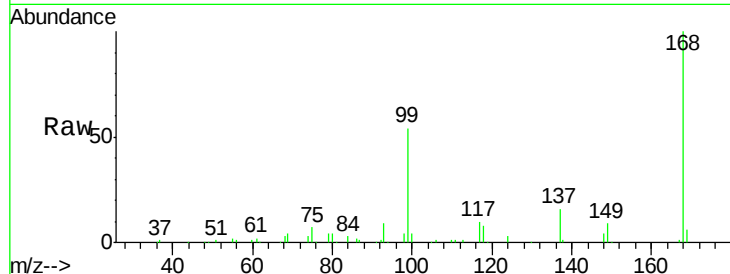




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.09 min Scan# 576
Delta R.T. 0.05 min
Lab File: VD061681.D
Acq: 9 Apr 2019 18:11

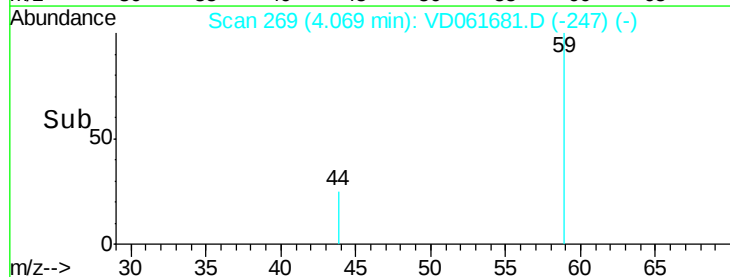
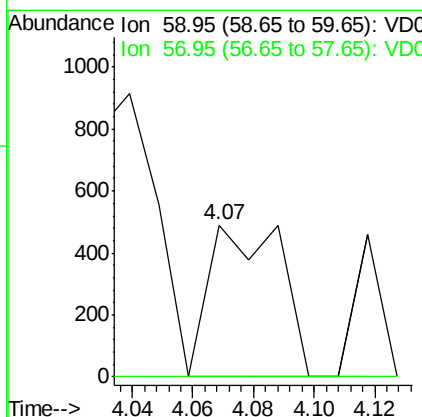
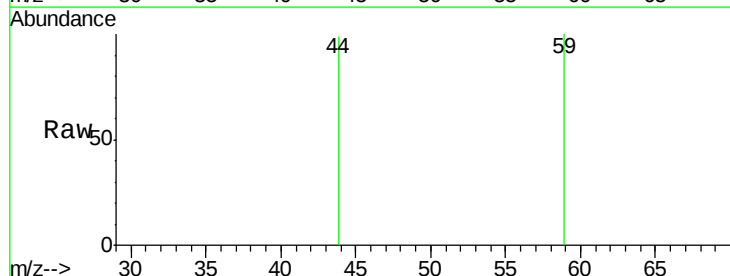
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 493265
Ion Ratio Lower Upper
168 100
99 53.7 46.8 70.2



#11
Tert butyl alcohol
Concen: 3.197 ug/l
RT: 4.07 min Scan# 269
Delta R.T. 0.01 min
Lab File: VD061681.D
Acq: 9 Apr 2019 18:11

Tgt Ion: 59 Resp: 801
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#

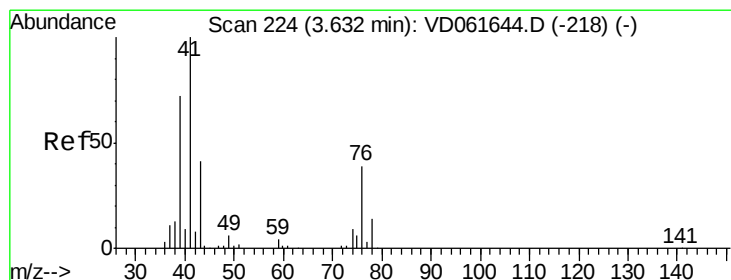
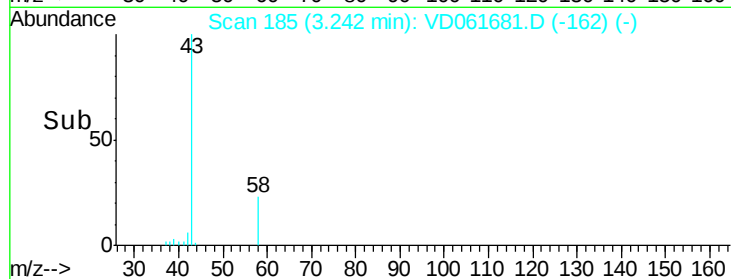
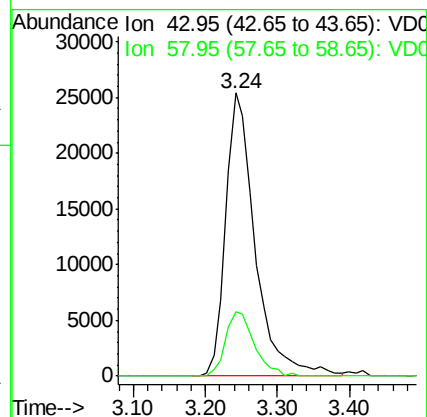
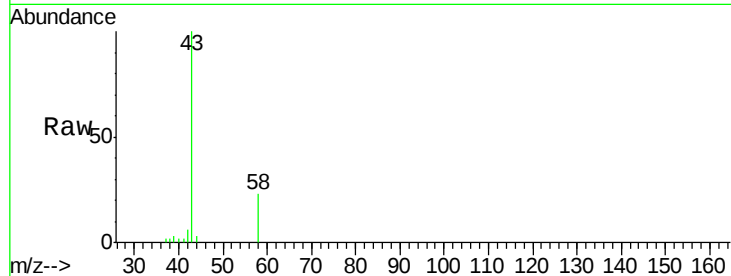




#16
Acetone
Concen: 64.262 ug/l
RT: 3.24 min Scan# 185
Delta R.T. 0.02 min
Lab File: VD061681.D
Acq: 9 Apr 2019 18:11

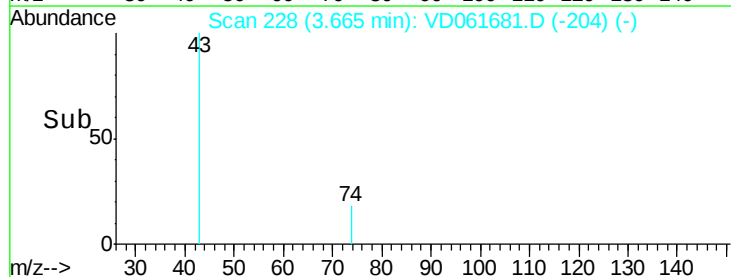
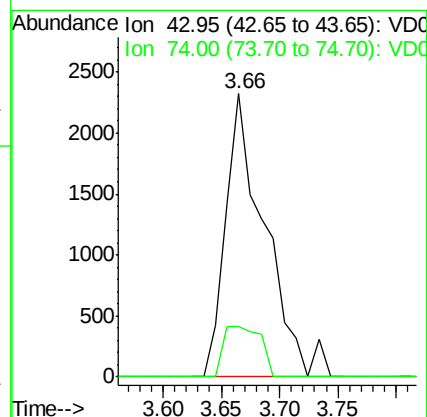
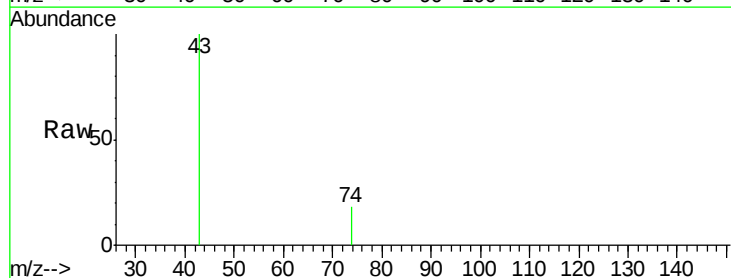
Instrument :
MSVOA_D
ClientSampleId :

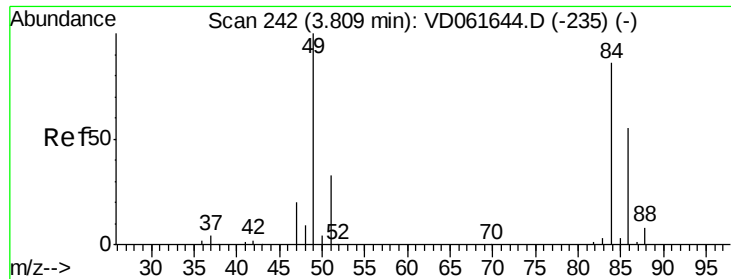
Tot Ion: 43 Resp: 71825
Ion Ratio Lower Upper
43 100
58 22.6 19.7 29.5



#18
Methyl Acetate
Concen: 2.577 ug/l
RT: 3.66 min Scan# 228
Delta R.T. 0.03 min
Lab File: VD061681.D
Acq: 9 Apr 2019 18:11

Tgt Ion: 43 Resp: 5420
Ion Ratio Lower Upper
43 100
74 17.9 18.2 27.2#

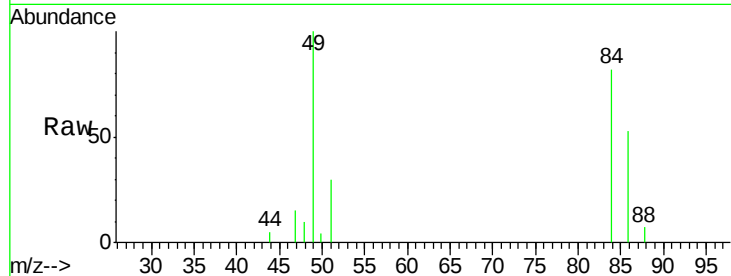




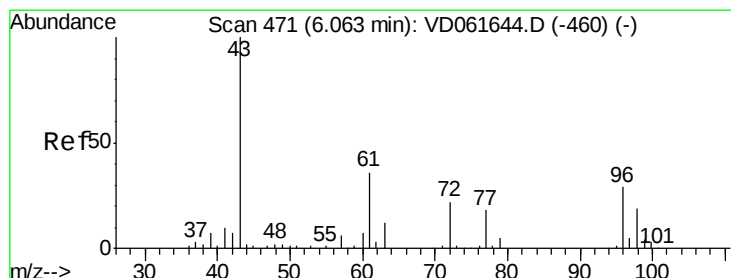
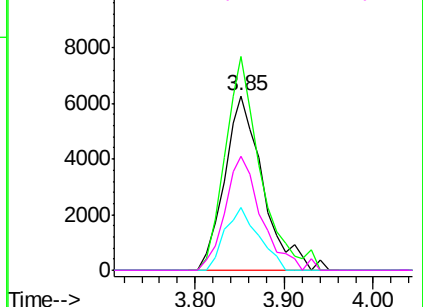
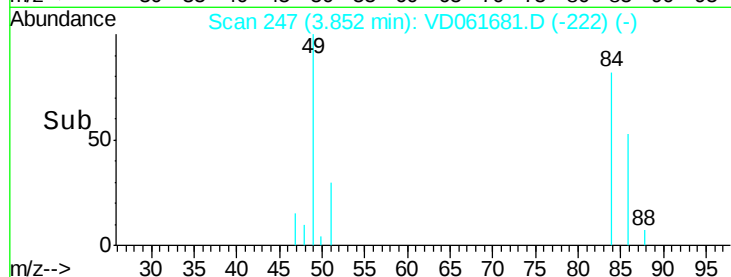
#20
Methvlene Chloride
Concen: 2.971 ug/l
RT: 3.85 min Scan# 247
Delta R.T. 0.04 min
Lab File: VD061681.D
Acq: 9 Apr 2019 18:11

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 18846
Ion Ratio Lower Upper
84 100
49 122.4 93.0 139.4
51 36.1 30.4 45.6
86 65.4 51.0 76.4

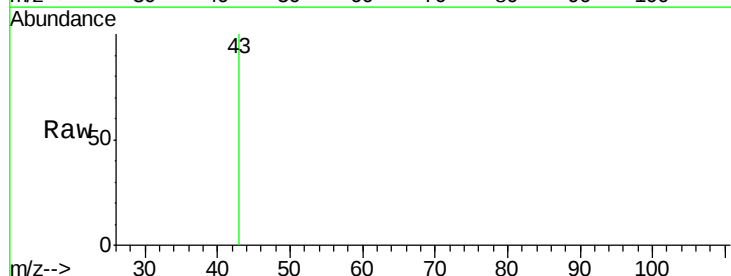


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

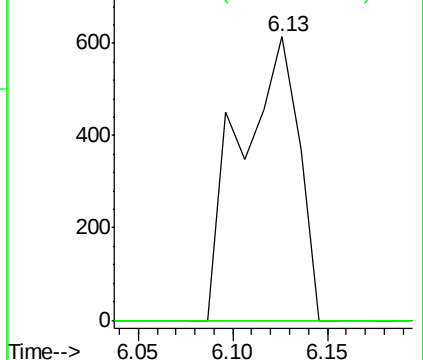
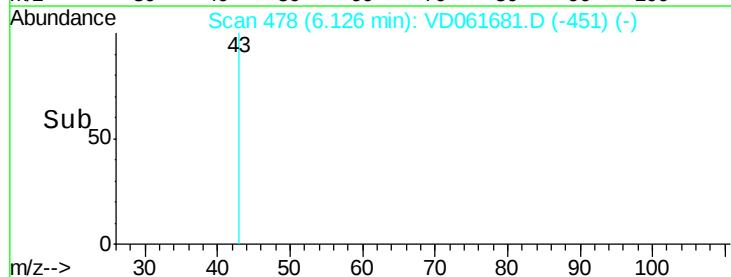


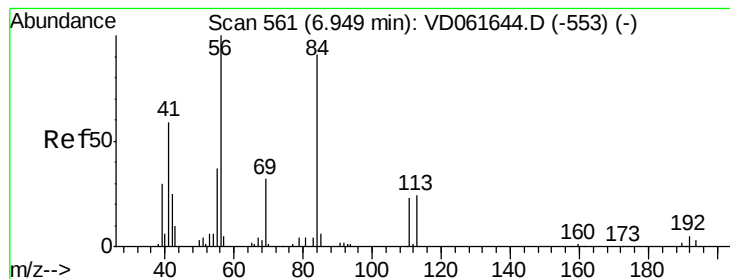
#25
2-Butanone
Concen: 1.027 ug/l
RT: 6.13 min Scan# 478
Delta R.T. 0.06 min
Lab File: VD061681.D
Acq: 9 Apr 2019 18:11

Tgt Ion: 43 Resp: 1323
Ion Ratio Lower Upper
43 100
72 0.0 17.4 26.2#



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





#31

Cyclohexane

Concen: 1.203 ug/l

RT: 7.08 min Scan# 575

Delta R.T. 0.13 min

Lab File: VD061681.D

Acq: 9 Apr 2019 18:11

Instrument :

MSVOA_D

ClientSampled :

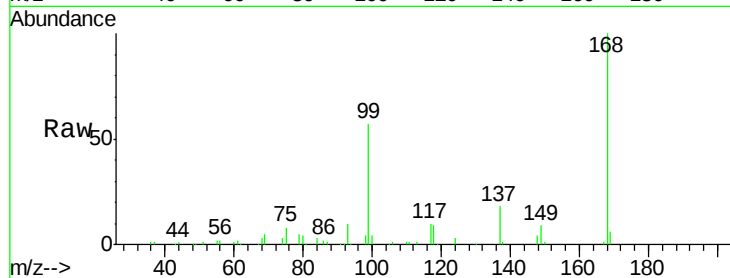
Tot Ion: 56 Resp: 8466

Ion Ratio Lower Upper

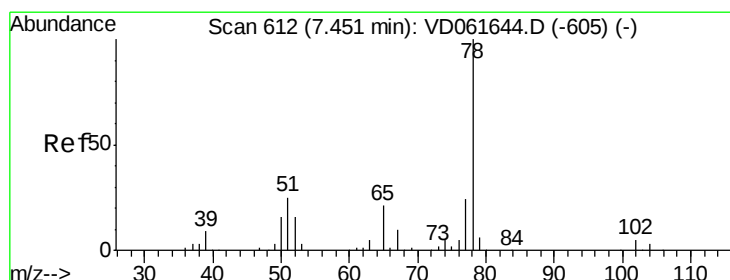
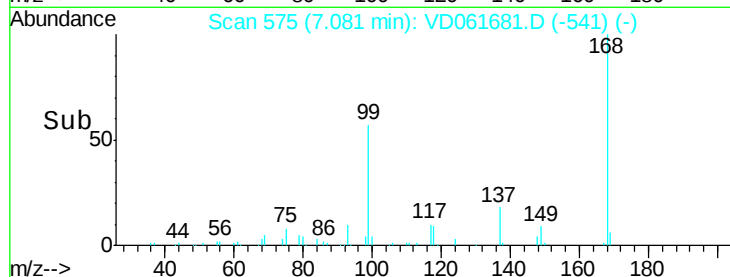
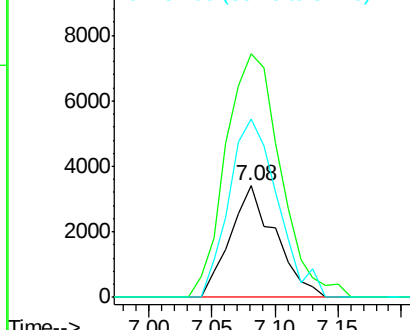
56 100

69 218.6 25.8 38.6#

84 159.8 74.2 111.2#



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: 7.49 min Scan# 617

Delta R.T. 0.04 min

Lab File: VD061681.D

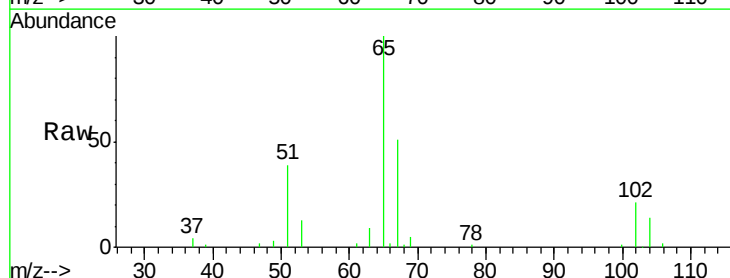
Acq: 9 Apr 2019 18:11

Tgt Ion: 65 Resp: 204057

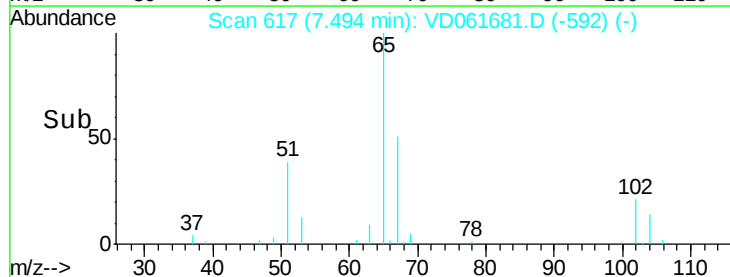
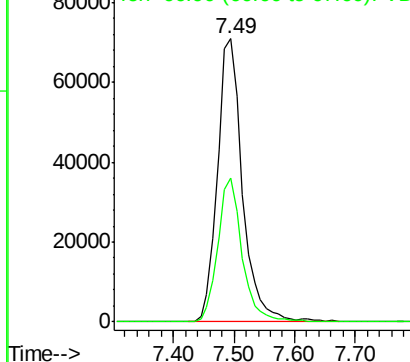
Ion Ratio Lower Upper

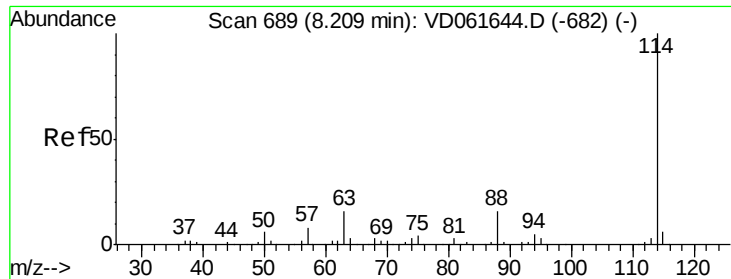
65 100

67 51.0 0.0 99.4



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: 8.25 min Scan# 694

Delta R.T. 0.04 min

Lab File: VD061681.D

Acq: 9 Apr 2019 18:11

Instrument :

MSVOA_D

ClientSampleId :

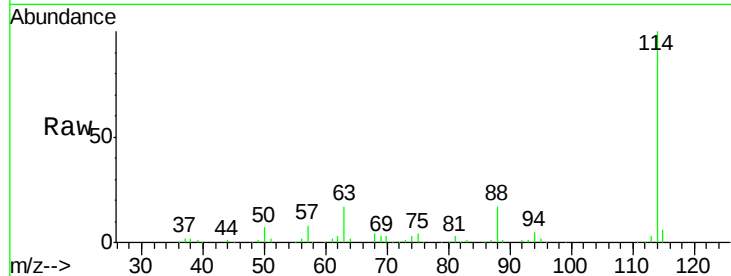
Tot Ion:114 Resp: 801484

Ion Ratio Lower Upper

114 100

63 16.5 0.0 31.2

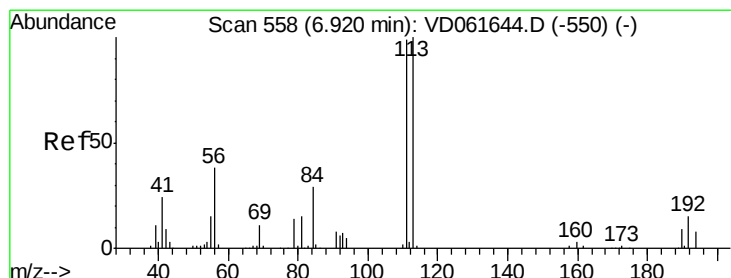
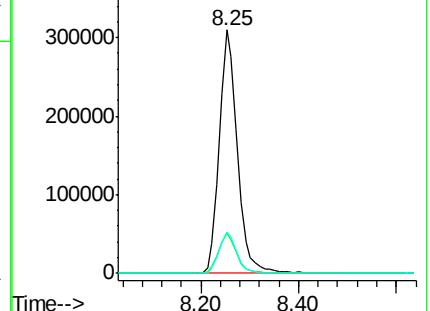
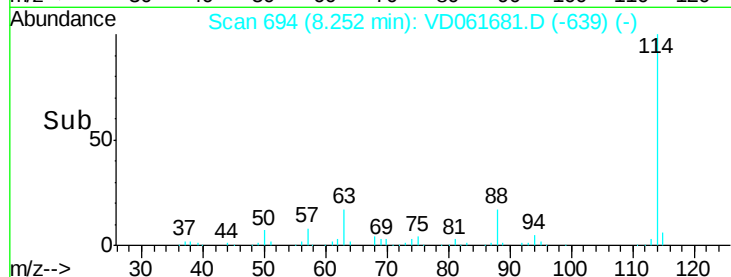
88 17.1 0.0 31.8



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: 6.96 min Scan# 563

Delta R.T. 0.04 min

Lab File: VD061681.D

Acq: 9 Apr 2019 18:11

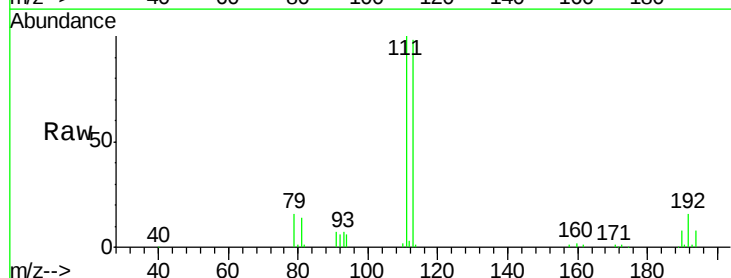
Tgt Ion:113 Resp: 318579

Ion Ratio Lower Upper

113 100

111 102.5 79.3 118.9

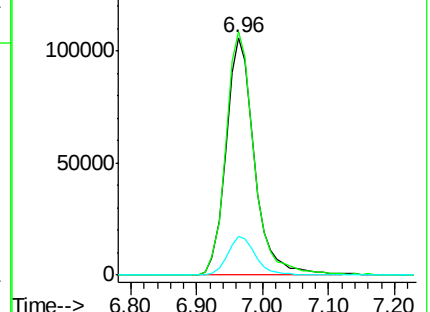
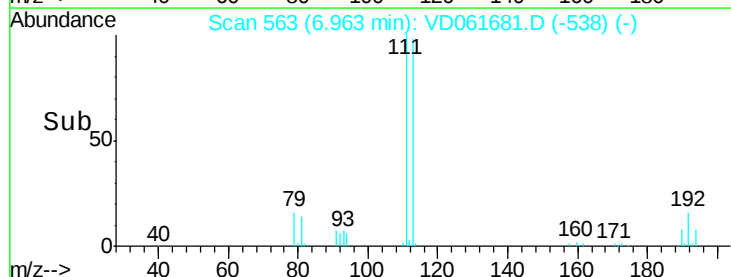
192 16.3 12.3 18.5

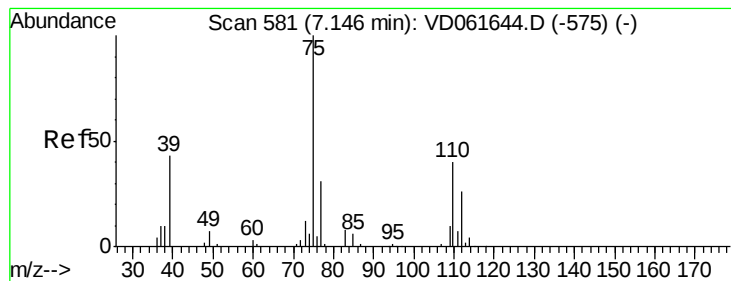


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.134 ug/l

RT: 7.08 min Scan# 575

Delta R.T. -0.07 min

Lab File: VD061681.D

Acq: 9 Apr 2019 18:11

Instrument :

MSVOA_D

ClientSampleId :

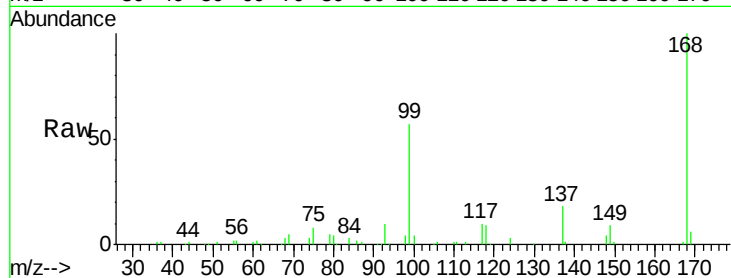
Tot Ion: 75 Resp: 36015

Ion Ratio Lower Upper

75 100

110 9.6 19.7 59.0#

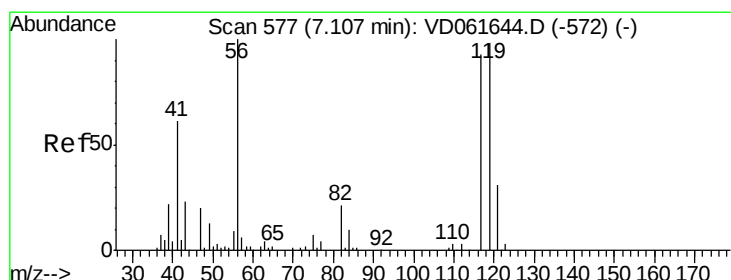
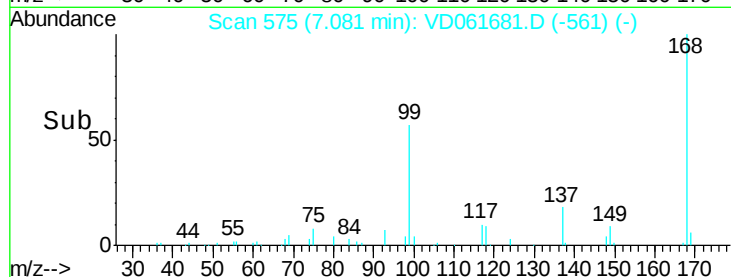
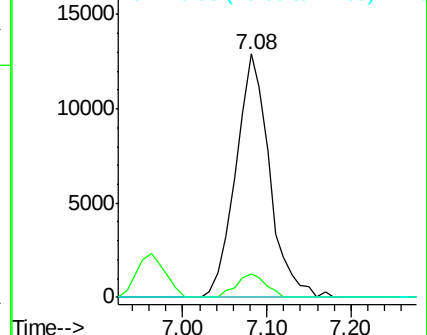
77 0.0 24.8 37.2#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V



#38

Carbon Tetrachloride

Concen: 5.958 ug/l

RT: 7.09 min Scan# 576

Delta R.T. -0.02 min

Lab File: VD061681.D

Acq: 9 Apr 2019 18:11

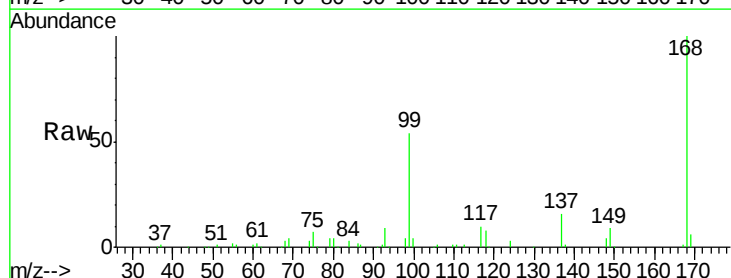
Tgt Ion: 117 Resp: 48981

Ion Ratio Lower Upper

117 100

119 3.8 77.9 116.9#

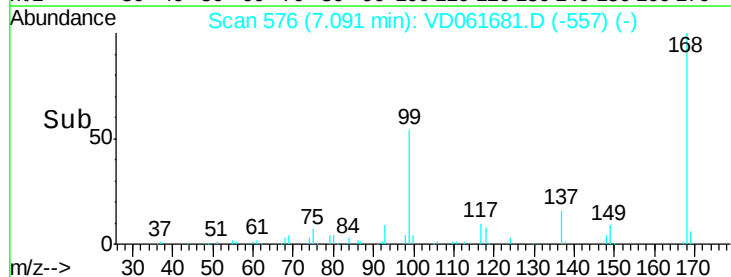
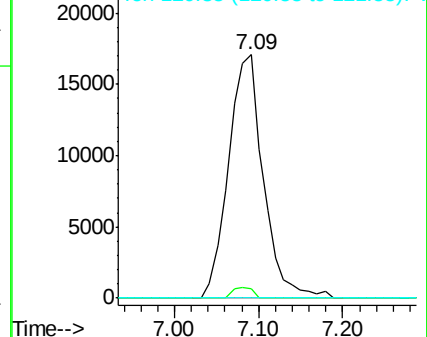
121 0.0 24.7 37.1#

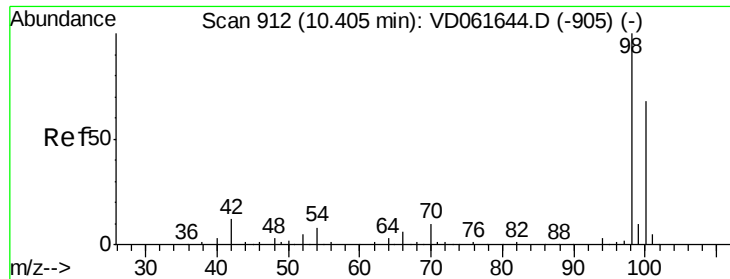


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

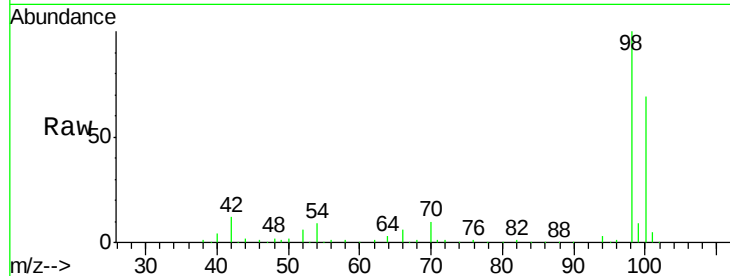




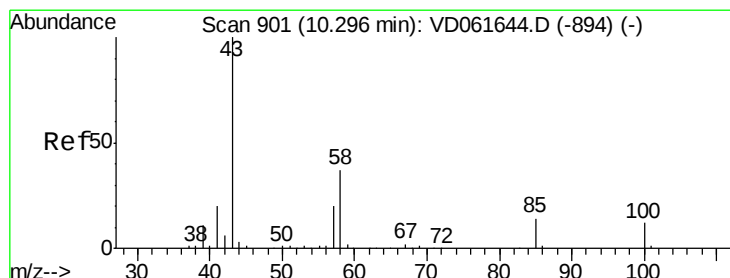
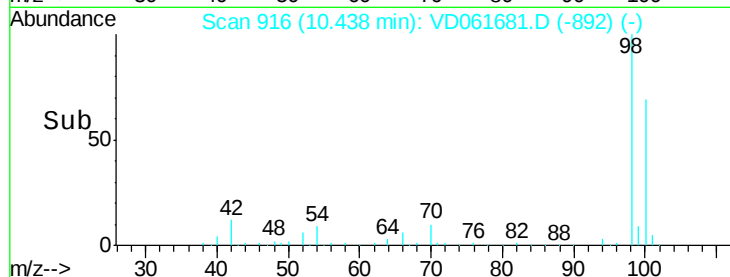
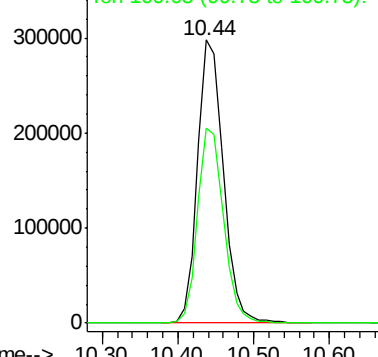
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.44 min Scan# 916
Delta R.T. 0.03 min
Lab File: VD061681.D
Acq: 9 Apr 2019 18:11

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 704592
Ion Ratio Lower Upper
98 100
100 68.8 55.4 83.0

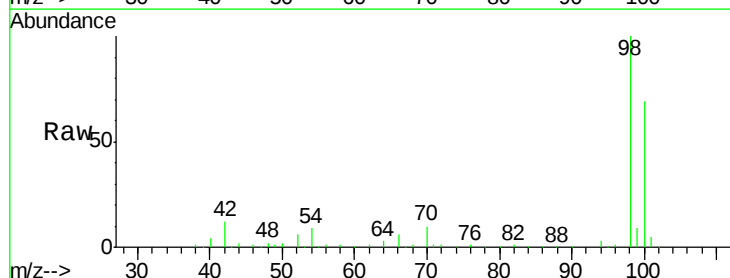


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

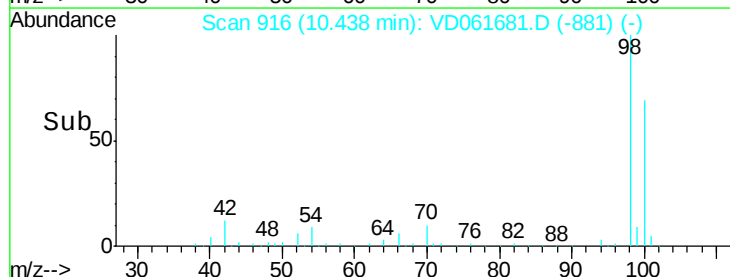
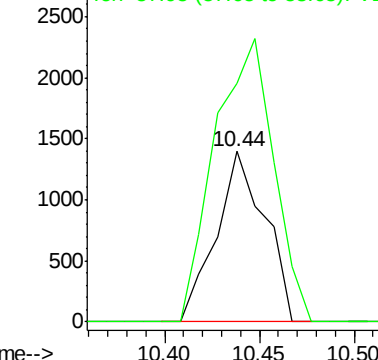


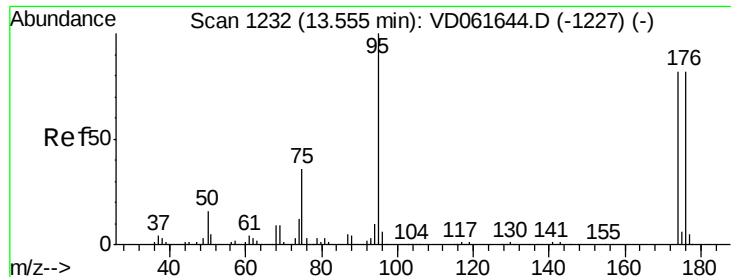
#51
4-Methyl-2-Pentanone
Concen: 1.013 ug/l
RT: 10.44 min Scan# 916
Delta R.T. 0.14 min
Lab File: VD061681.D
Acq: 9 Apr 2019 18:11

Tgt Ion: 43 Resp: 2483
Ion Ratio Lower Upper
43 100
58 139.9 29.8 44.8#



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: 13.58 min Scan# 1235

Delta R.T. 0.02 min

Lab File: VD061681.D

Acq: 9 Apr 2019 18:11

Instrument :

MSVOA_D

ClientSampleId :

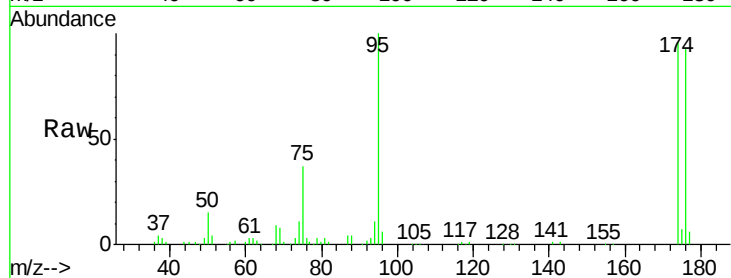
Tot Ion: 95 Resp: 220481

Ion Ratio Lower Upper

95 100

174 95.5 0.0 164.6

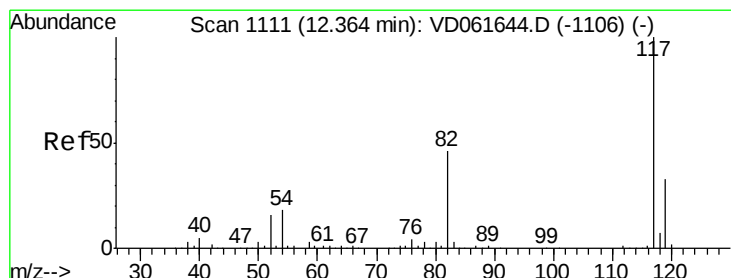
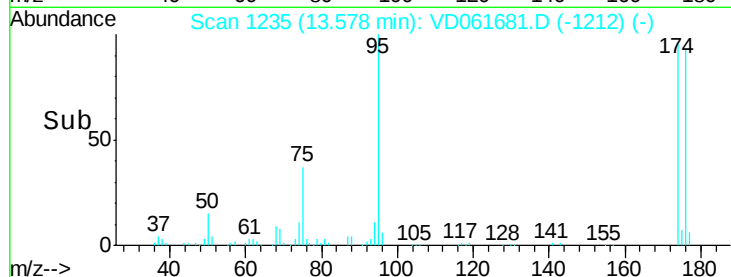
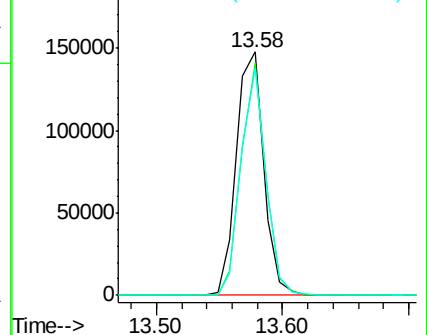
176 93.3 0.0 165.0



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.39 min Scan# 1114

Delta R.T. 0.02 min

Lab File: VD061681.D

Acq: 9 Apr 2019 18:11

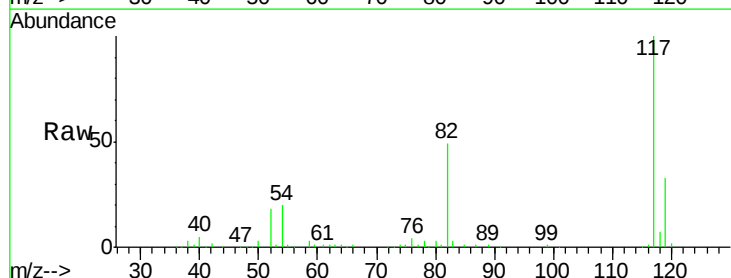
Tgt Ion: 117 Resp: 525081

Ion Ratio Lower Upper

117 100

82 48.6 36.8 55.2

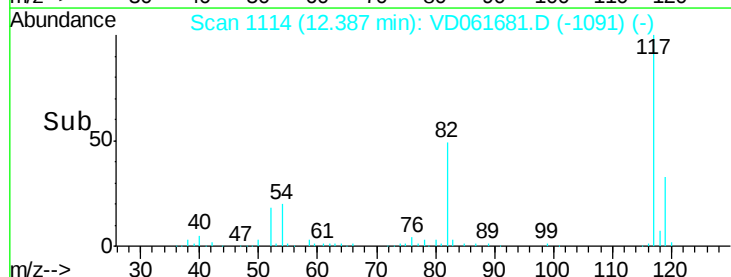
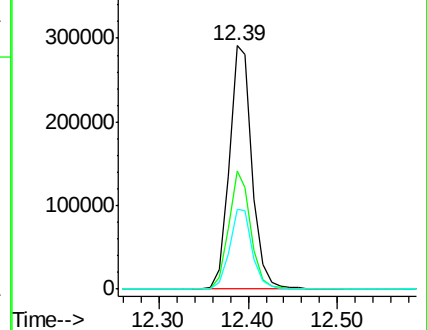
119 32.7 26.1 39.1

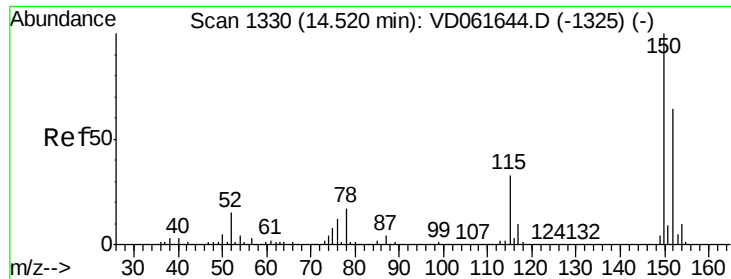


Abundance Ion 116.95 (116.65 to 117.65): V

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: 14.53 min Scan# 1332

Delta R.T. 0.01 min

Lab File: VD061681.D

Acq: 9 Apr 2019 18:11

Instrument :

MSVOA_D

ClientSampleId :

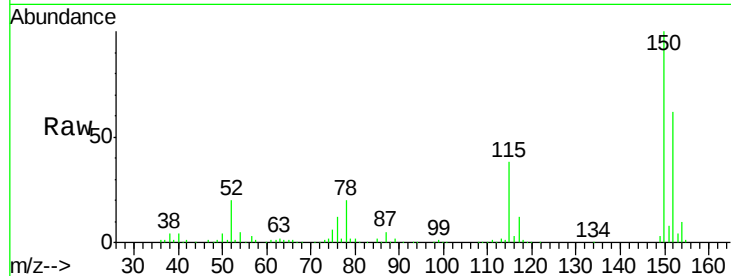
Tot Ion:152 Resp: 202360

Ion Ratio Lower Upper

152 100

115 60.9 26.4 79.2

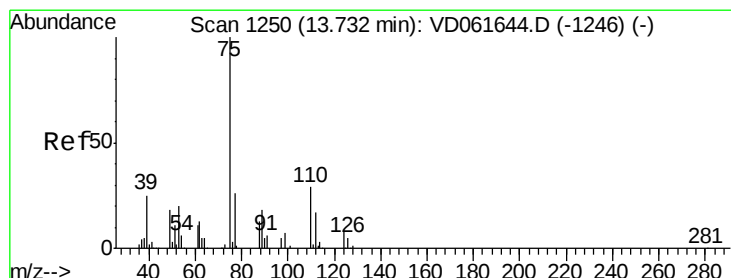
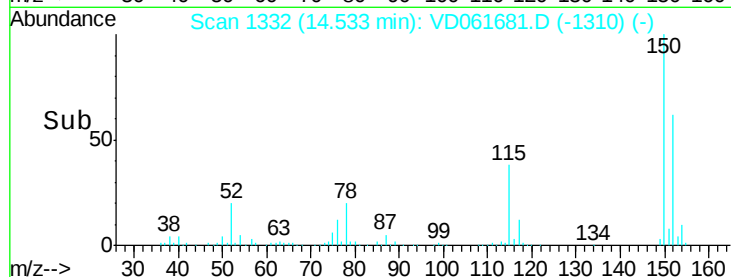
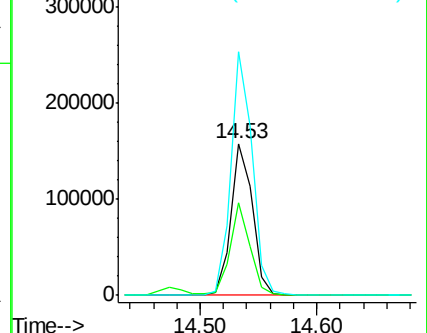
150 160.6 0.0 320.6



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: 30.056 ug/l

RT: 13.58 min Scan# 1235

Delta R.T. -0.15 min

Lab File: VD061681.D

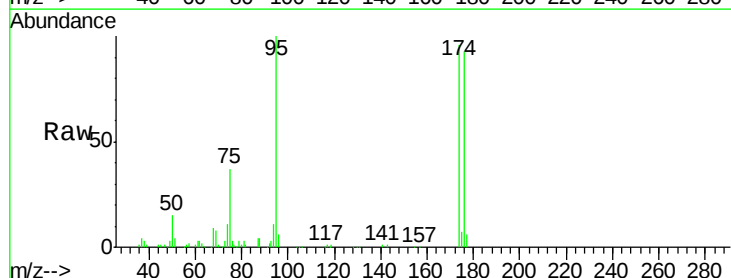
Acq: 9 Apr 2019 18:11

Tgt Ion: 75 Resp: 82749

Ion Ratio Lower Upper

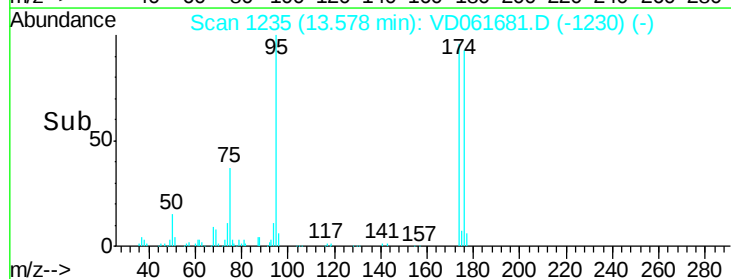
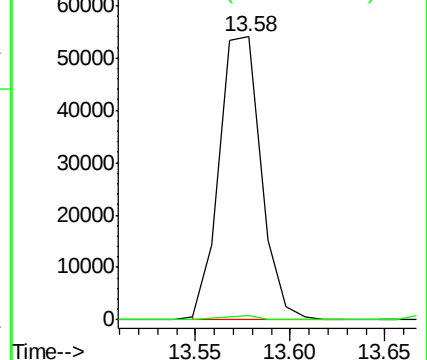
75 100

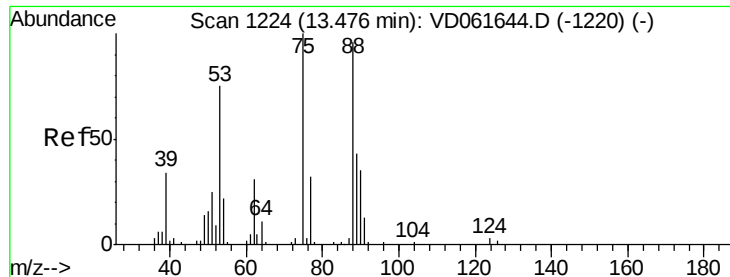
77 1.7 15.7 47.1#



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: 99.532 ug/l

RT: 13.58 min Scan# 1235

Delta R.T. 0.10 min

Lab File: VD061681.D

Acq: 9 Apr 2019 18:11

Instrument :

MSVOA_D

ClientSampleId :

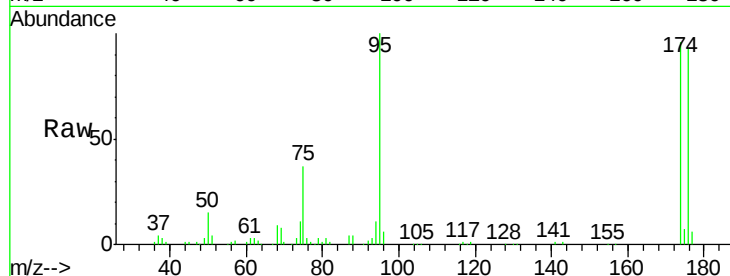
Tot Ion: 75 Resp: 83153

Ion Ratio Lower Upper

75 100

53 0.0 60.2 90.2#

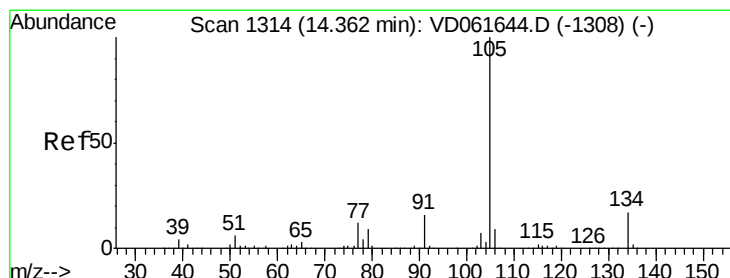
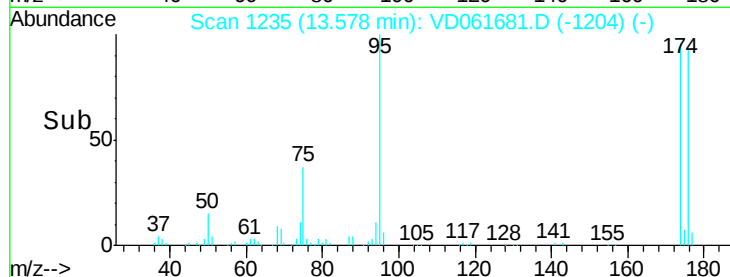
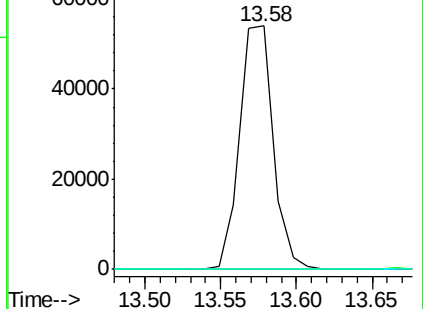
89 0.0 34.2 51.2#



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



#85

sec-Butylbenzene

Concen: 3.460 ug/l

RT: 14.47 min Scan# 1326

Delta R.T. 0.11 min

Lab File: VD061681.D

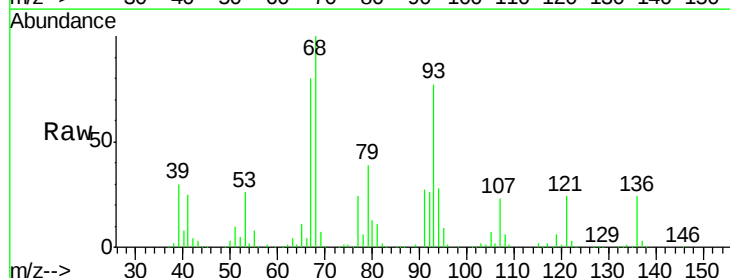
Acq: 9 Apr 2019 18:11

Tgt Ion:105 Resp: 48239

Ion Ratio Lower Upper

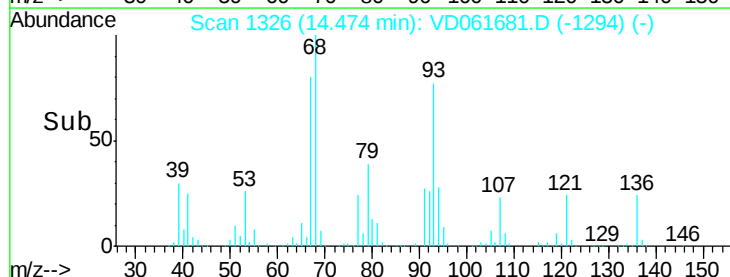
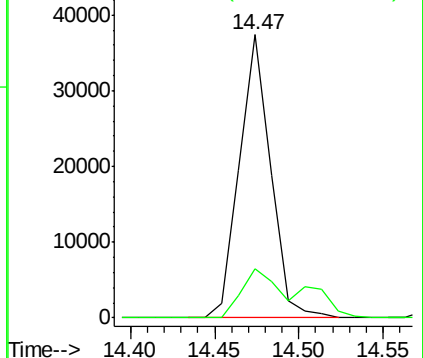
105 100

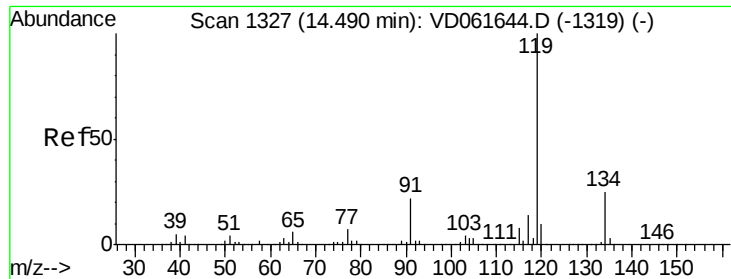
134 17.2 8.6 25.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

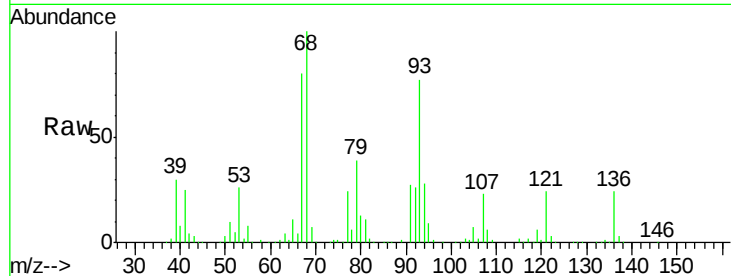




#86
 p-Isopropyltoluene
 Concen: 5.886 ug/l
 RT: 14.47 min Scan# 1326
 Delta R.T. -0.02 min
 Lab File: VD061681.D
 Acq: 9 Apr 2019 18:11

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
119	100		
134	19.6	12.5	37.5
91	428.8	11.0	33.0



Abundance Ion 119.05 (118.75 to 119.75): V
 Ion 134.10 (133.80 to 134.80): V
 Ion 91.00 (90.70 to 91.70): V

