

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040619\
 Data File : VD061642.D
 Acq On : 6 Apr 2019 14:44
 Operator : VA/AP
 Sample : VIBLK
 Misc : 5.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 08 08:13:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D040619S.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 08 07:29:49 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	776069	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	1272064	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	964728	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	456762	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	286213	48.65	ug/l	0.00
Spiked Amount			Recovery	=	97.30%	
35) Dibromofluoromethane	6.92	113	435435	49.41	ug/l	0.00
Spiked Amount			Recovery	=	98.82%	
50) Toluene-d8	10.40	98	1000227	45.18	ug/l	0.00
Spiked Amount			Recovery	=	90.36%	
62) 4-Bromofluorobenzene	13.55	95	359818	45.34	ug/l	0.00
Spiked Amount			Recovery	=	90.68%	

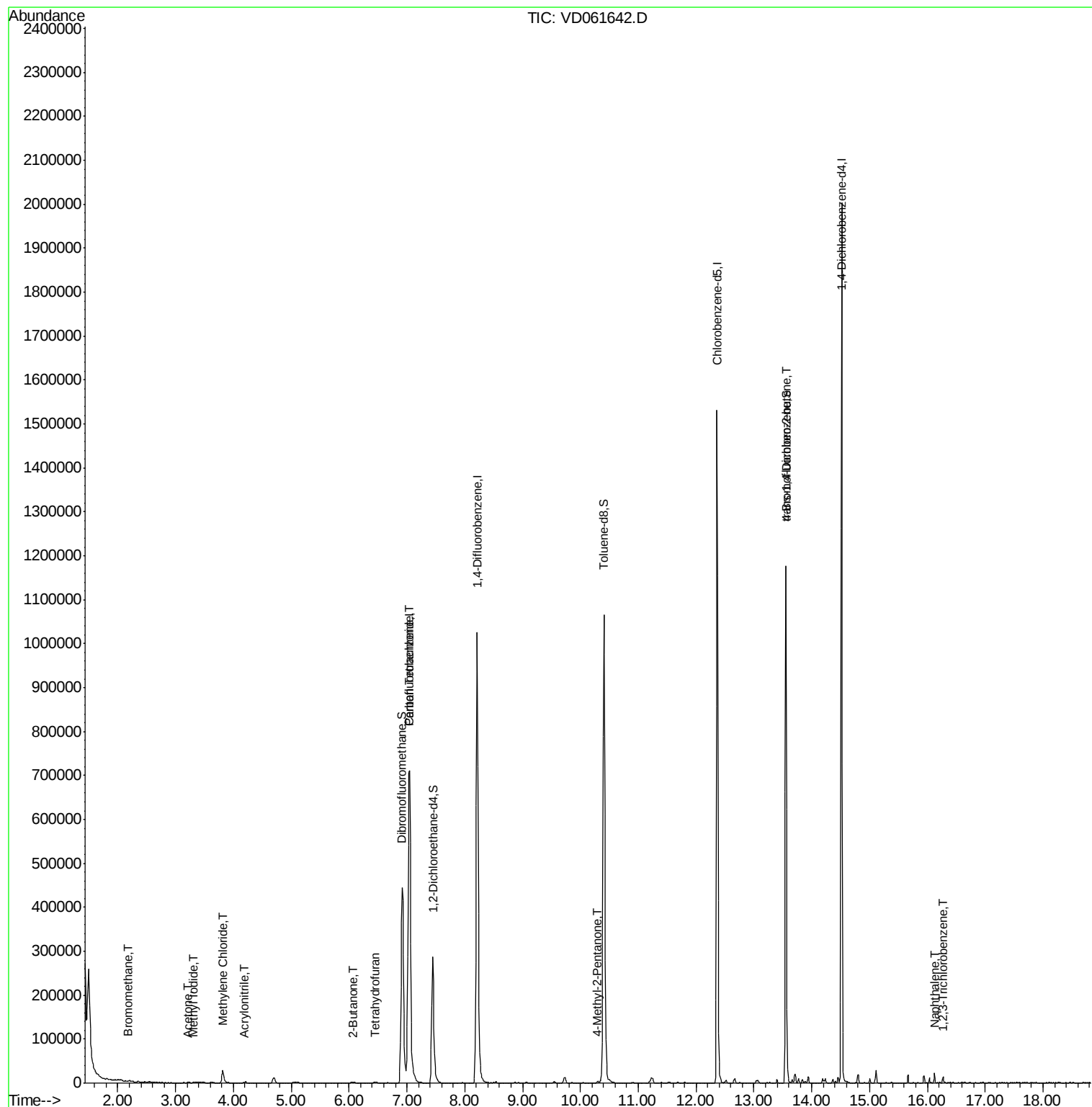
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.17	94	2516	1.719	ug/l #	62
10) Methyl Iodide	3.31	142	4350	3.942	ug/l #	91
15) Acrylonitrile	4.19	53	1539	1.134	ug/l #	86
16) Acetone	3.21	43	4167	2.370	ug/l	100
20) Methylene Chloride	3.82	84	20534	2.058	ug/l	93
25) 2-Butanone	6.06	43	2421	1.194	ug/l #	54
29) Tetrahydrofuran	6.46	42	1830	1.870	ug/l #	78
38) Carbon Tetrachloride	7.04	117	73150	5.606	ug/l #	16
51) 4-Methyl-2-Pentanone	10.30	43	4682	1.203	ug/l	94
81) trans-1,4-Dichloro-2-buten	13.55	75	130618	69.266	ug/l #	20
95) Naphthalene	16.12	128	14901	1.475	ug/l	96
96) 1,2,3-Trichlorobenzene	16.27	180	4787	1.502	ug/l	96

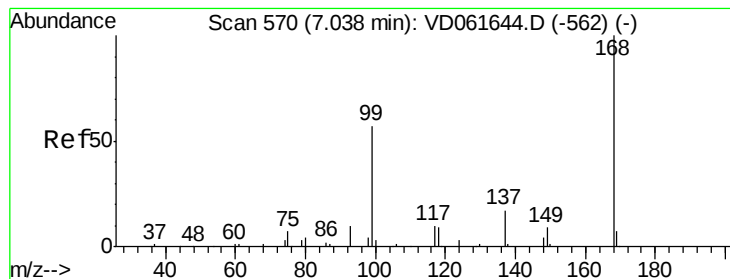
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD040619\
Data File : VD061642.D
Acq On : 6 Apr 2019 14:44
Operator : VA/AP
Sample : VIBLK
Misc : 5.00µl/5ml/MSVOA D/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :

Quant Time: Apr 08 08:13:43 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D040619S.M
Quant Title : SW846 8260
QLast Update : Mon Apr 08 07:29:49 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD061642.D

Acq: 6 Apr 2019 14:44

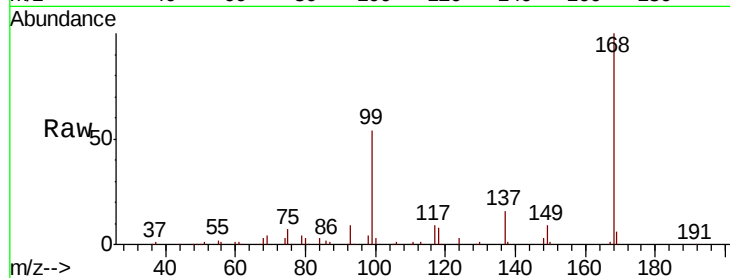
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 776069

Ion Ratio Lower Upper

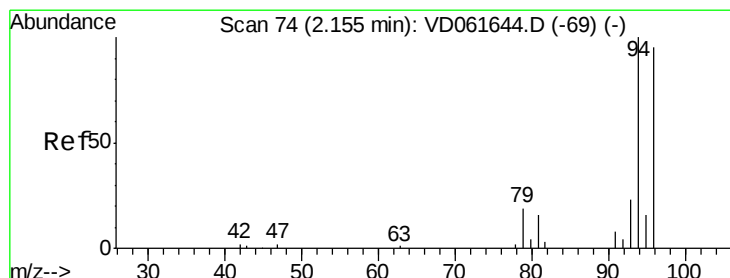
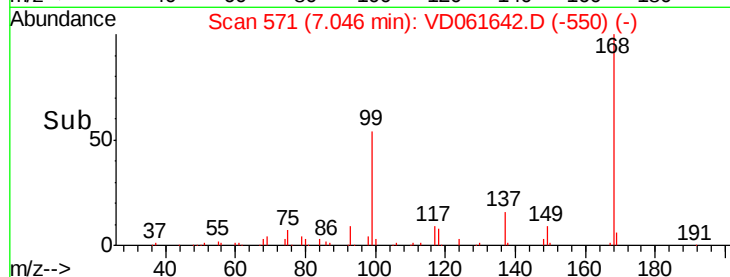
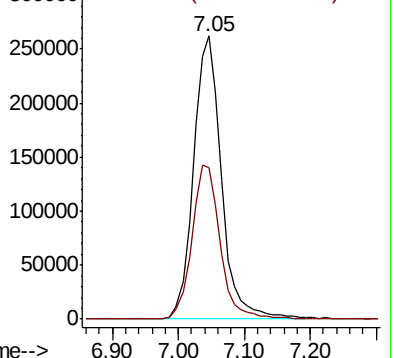
168 100

99 53.5 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 1.719 ug/l

RT: 2.17 min Scan# 76

Delta R.T. 0.02 min

Lab File: VD061642.D

Acq: 6 Apr 2019 14:44

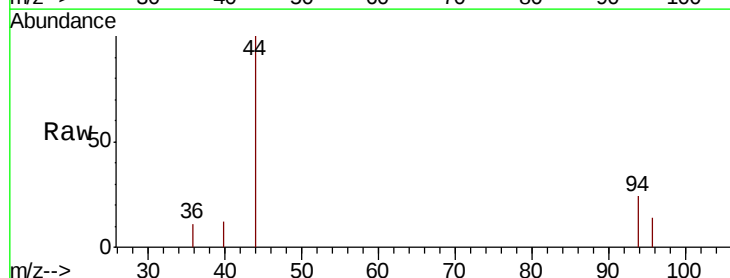
Tgt Ion: 94 Resp: 2516

Ion Ratio Lower Upper

94 100

96 60.1 75.8 113.8#

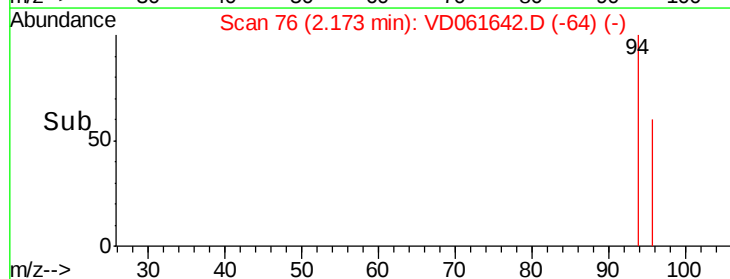
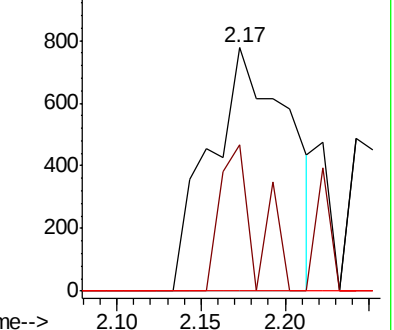
93 0.0 18.6 28.0#

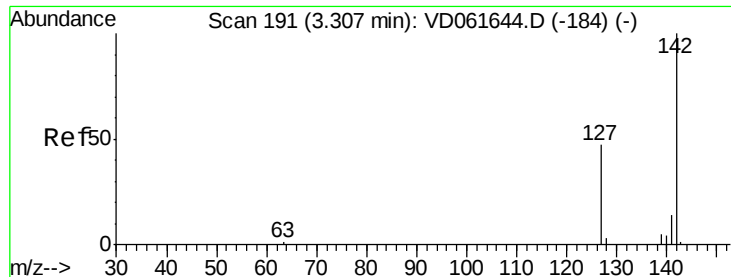


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

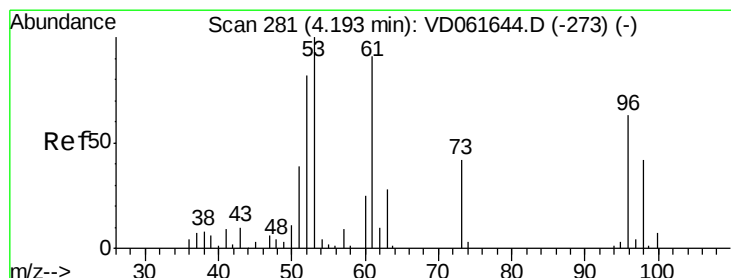
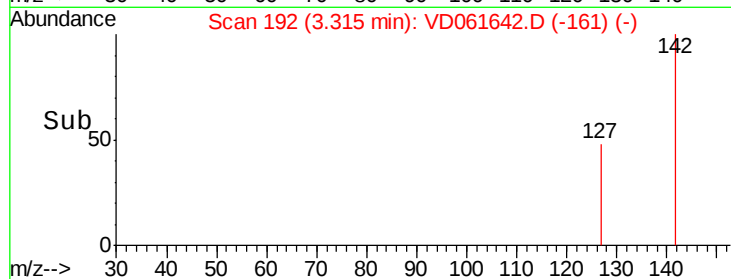
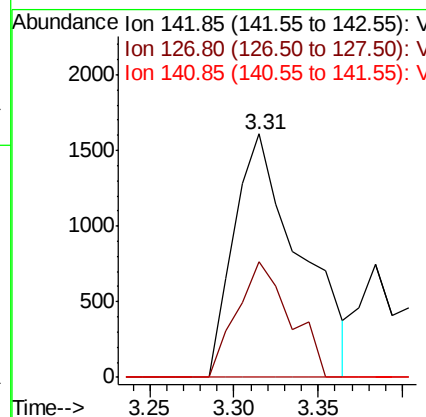
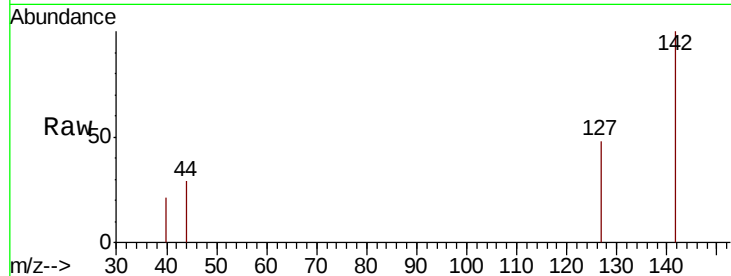




#10
Methvl Iodide
Concen: 3.942 ug/l
RT: 3.31 min Scan# 192
Delta R.T. 0.01 min
Lab File: VD061642.D
Acq: 6 Apr 2019 14:44

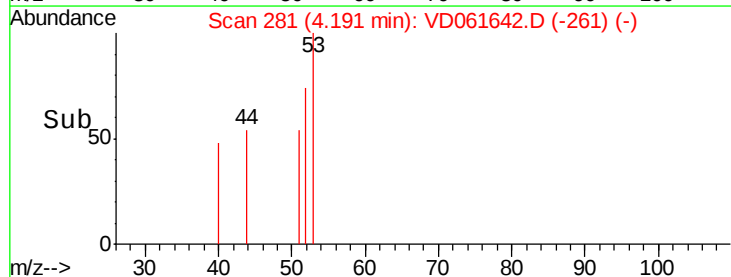
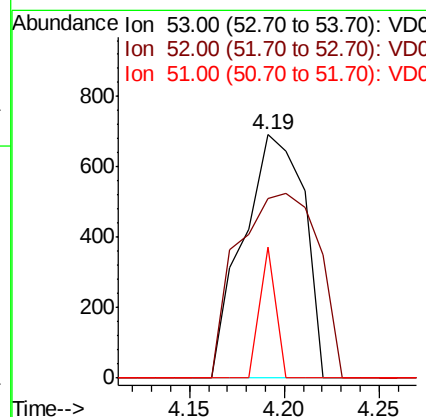
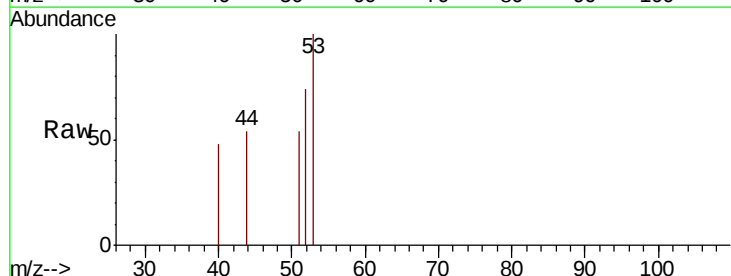
Instrument :
MSVOA_D
ClientSampleId :

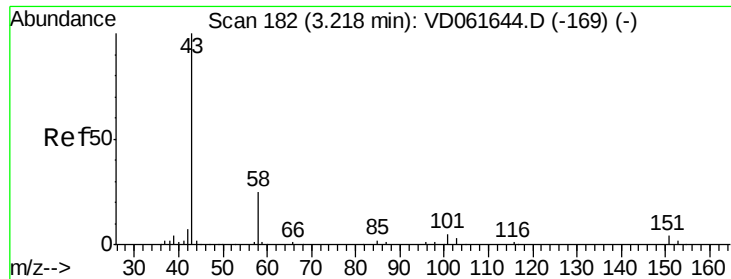
Tot Ion:142 Resp: 4350
Ion Ratio Lower Upper
142 100
127 47.7 37.2 55.8
141 0.0 10.8 16.2#



#15
Acrylonitrile
Concen: 1.134 ug/l
RT: 4.19 min Scan# 281
Delta R.T. -0.00 min
Lab File: VD061642.D
Acq: 6 Apr 2019 14:44

Tgt Ion: 53 Resp: 1539
Ion Ratio Lower Upper
53 100
52 74.0 65.9 98.9
51 53.6 31.4 47.2#





#16

Acetone

Concen: 2.370 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.01 min

Lab File: VD061642.D

Acq: 6 Apr 2019 14:44

Instrument :

MSVOA_D

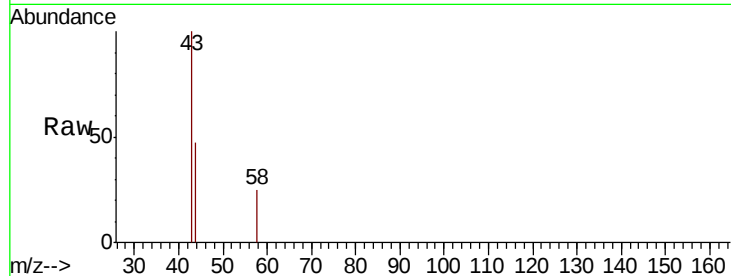
ClientSampleId :

Tot Ion: 43 Resp: 4167

Ion Ratio Lower Upper

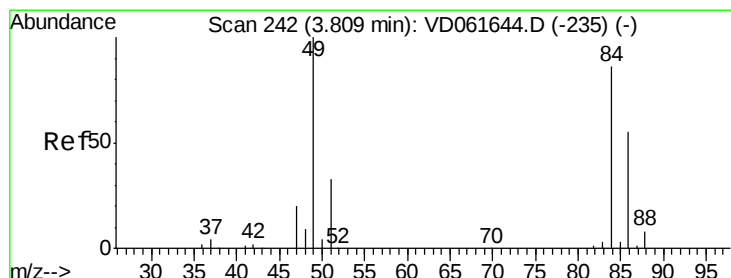
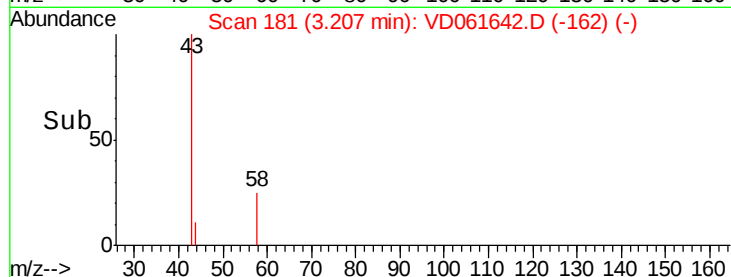
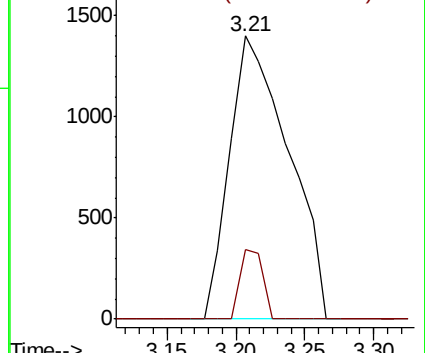
43 100

58 24.7 19.7 29.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 2.058 ug/l

RT: 3.82 min Scan# 243

Delta R.T. 0.01 min

Lab File: VD061642.D

Acq: 6 Apr 2019 14:44

Tgt Ion: 84 Resp: 20534

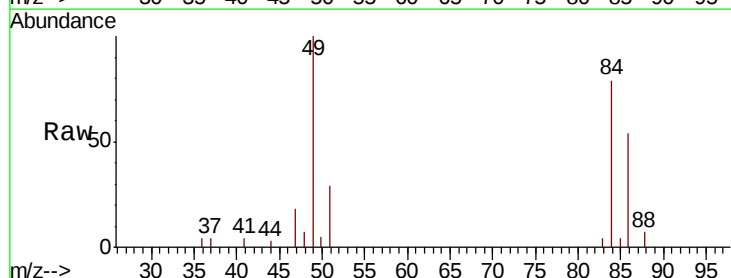
Ion Ratio Lower Upper

84 100

49 125.9 93.0 139.4

51 36.9 30.4 45.6

86 67.6 51.0 76.4

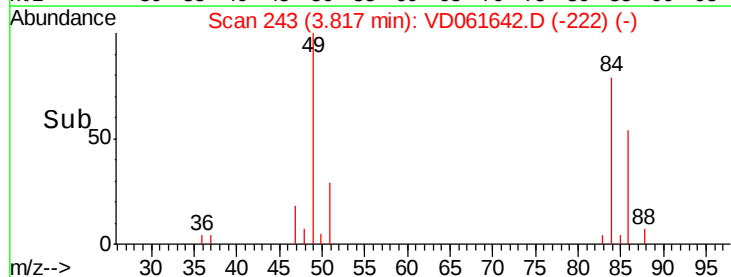
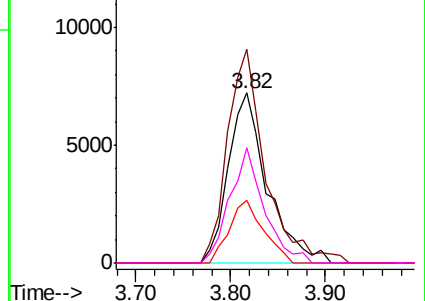


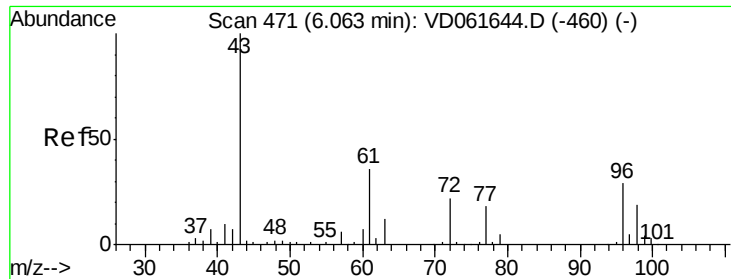
Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 1.194 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.00 min

Lab File: VD061642.D

Acq: 6 Apr 2019 14:44

Instrument :

MSVOA_D

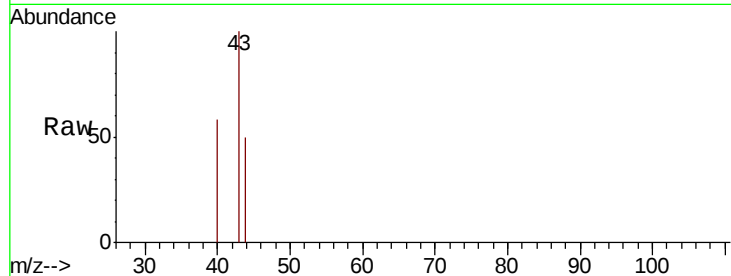
ClientSampleId :

Tot Ion: 43 Resp: 2421

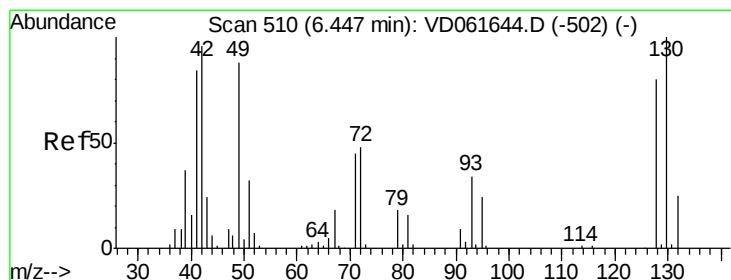
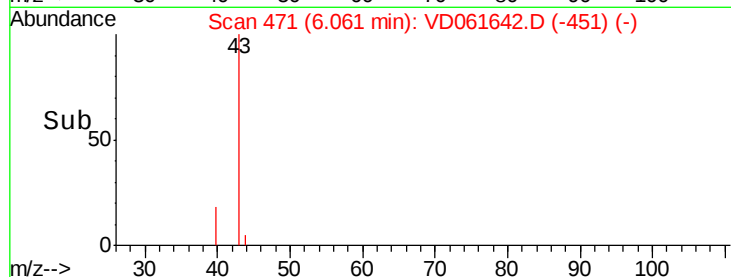
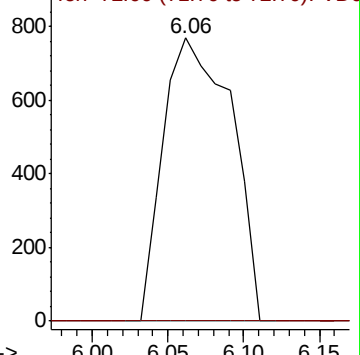
Ion Ratio Lower Upper

43 100

72 0.0 17.4 26.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC



#29

Tetrahydrofuran

Concen: 1.870 ug/l

RT: 6.46 min Scan# 511

Delta R.T. 0.01 min

Lab File: VD061642.D

Acq: 6 Apr 2019 14:44

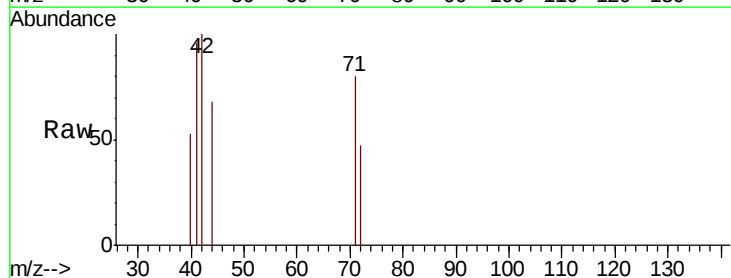
Tgt Ion: 42 Resp: 1830

Ion Ratio Lower Upper

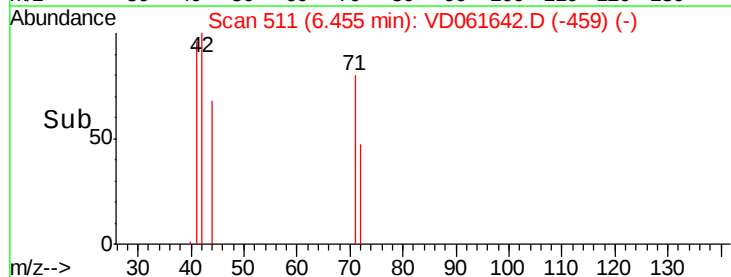
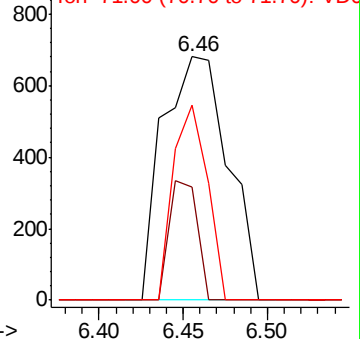
42 100

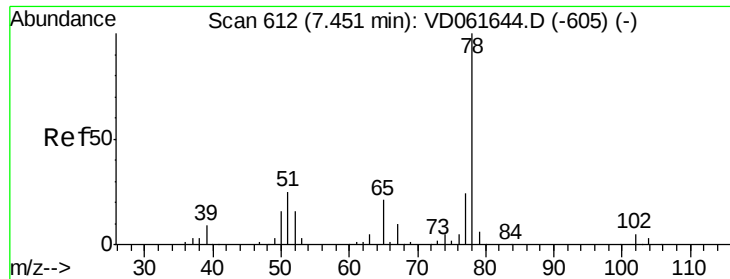
72 21.0 37.0 55.6#

71 41.9 36.5 54.7



Abundance Ion 42.00 (41.70 to 42.70): VDC

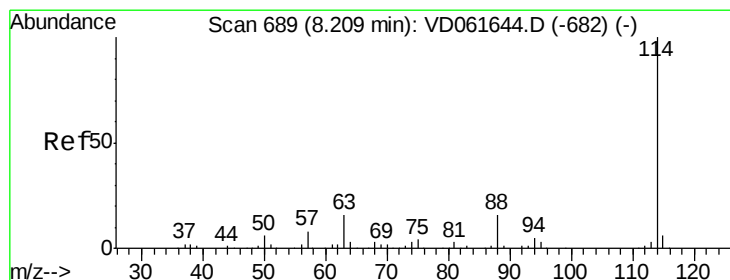
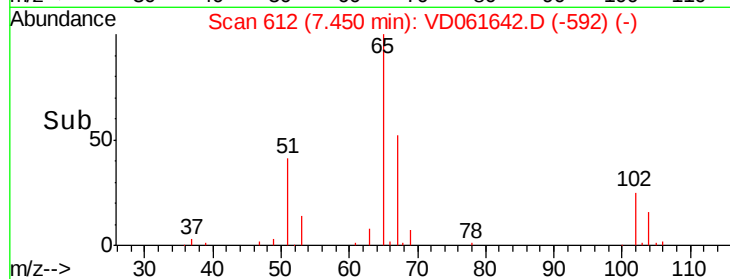
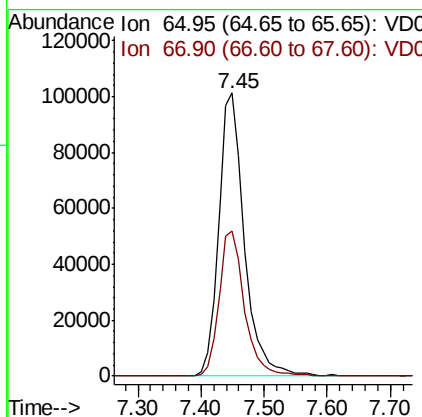
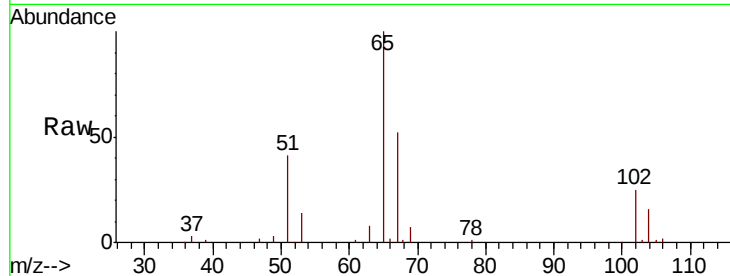




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 7.45 min Scan# 612
 Delta R.T. -0.00 min
 Lab File: VD061642.D
 Acq: 6 Apr 2019 14:44

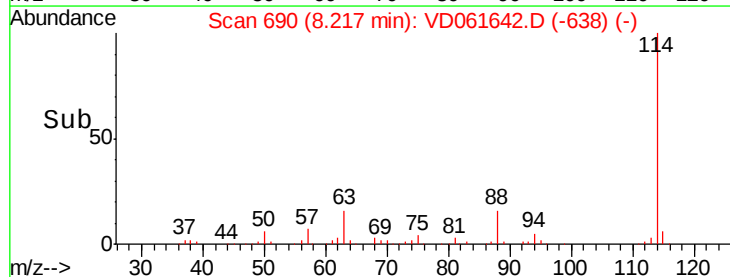
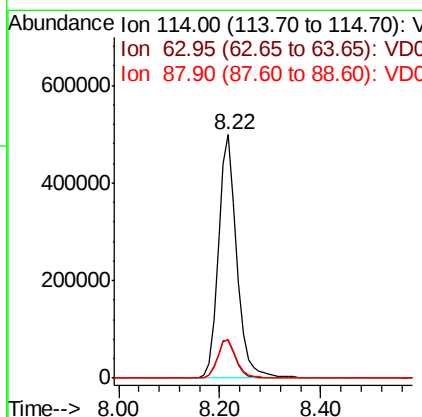
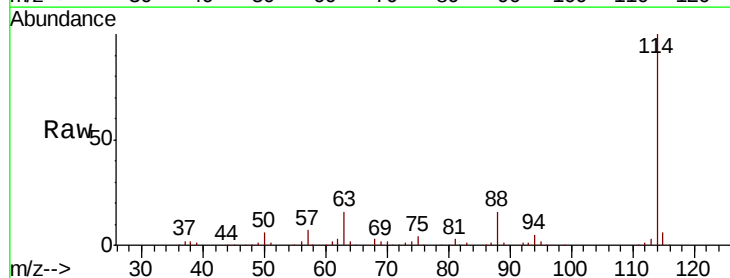
Instrument :
 MSVOA_D
 ClientSampleId :

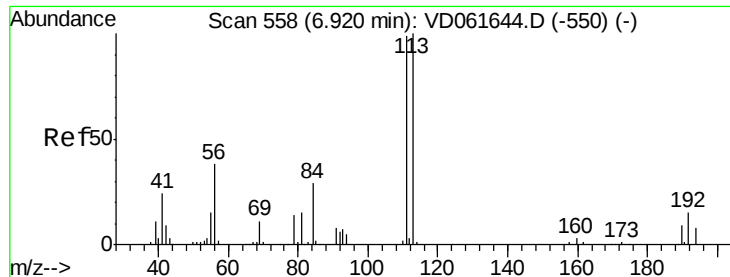
Tot Ion: 65 Resp: 286213
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 99.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. 0.01 min
 Lab File: VD061642.D
 Acq: 6 Apr 2019 14:44

Tgt Ion: 114 Resp: 1272064
 Ion Ratio Lower Upper
 114 100
 63 15.5 0.0 31.2
 88 16.1 0.0 31.8





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.92 min Scan# 558

Delta R.T. -0.00 min

Lab File: VD061642.D

Acq: 6 Apr 2019 14:44

Instrument :
MSVOA_D
ClientSampleId :

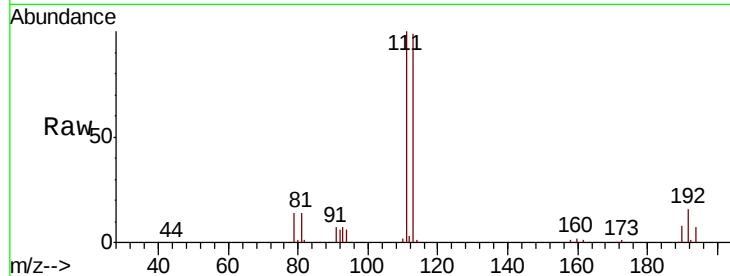
Tot Ion:113 Resp: 435435

Ion Ratio Lower Upper

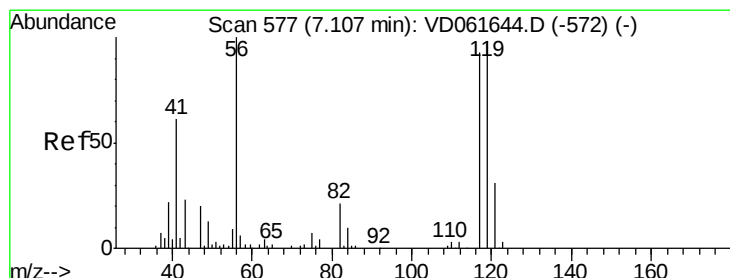
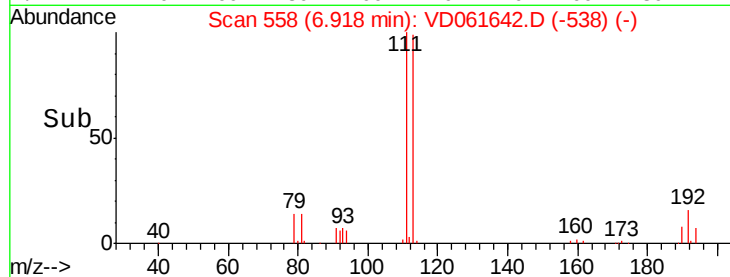
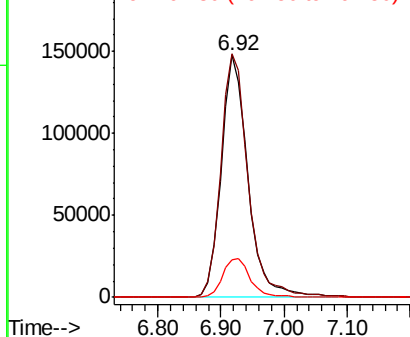
113 100

111 100.7 79.3 118.9

192 15.7 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



#38

Carbon Tetrachloride

Concen: 5.606 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.07 min

Lab File: VD061642.D

Acq: 6 Apr 2019 14:44

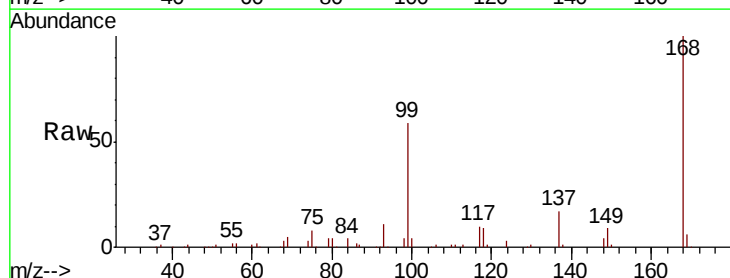
Tgt Ion:117 Resp: 73150

Ion Ratio Lower Upper

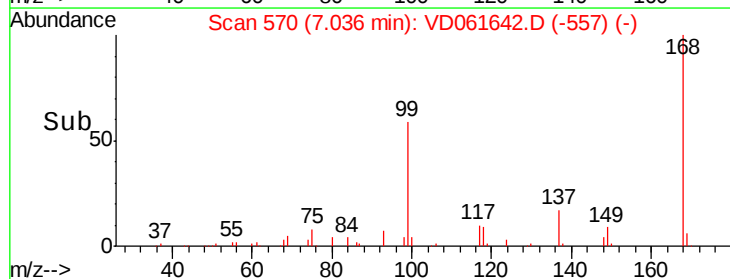
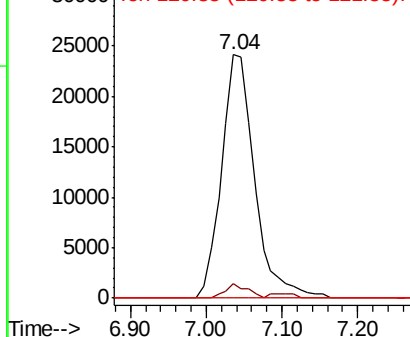
117 100

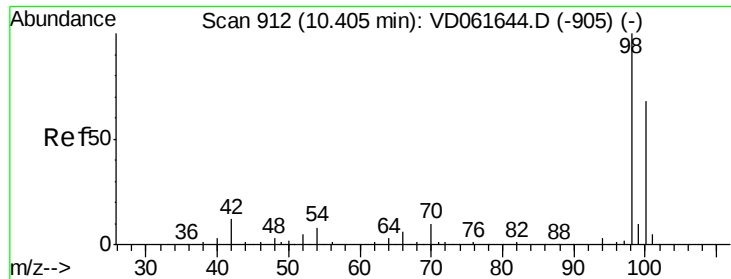
119 5.9 77.9 116.9#

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: 10.40 min Scan# 912

Delta R.T. -0.00 min

Lab File: VD061642.D

Acq: 6 Apr 2019 14:44

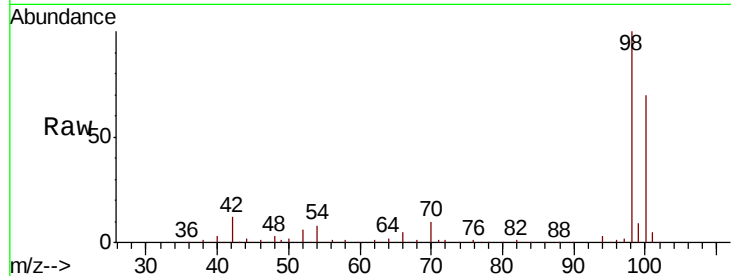
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 1000227

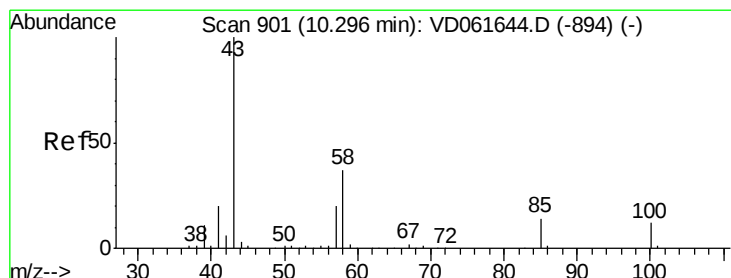
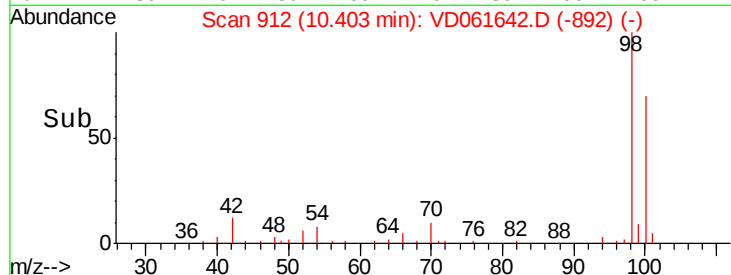
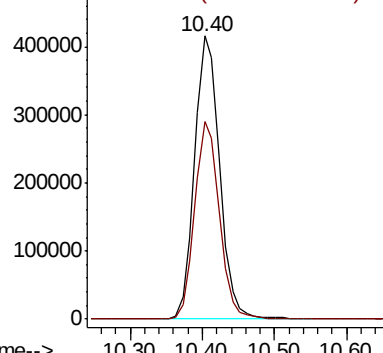
Ion Ratio Lower Upper

98 100

100 69.9 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: 1.203 ug/l

RT: 10.30 min Scan# 902

Delta R.T. 0.01 min

Lab File: VD061642.D

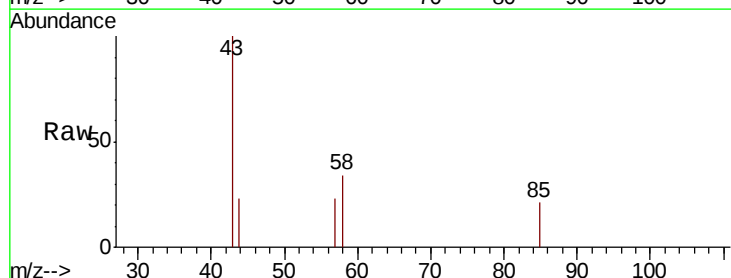
Acq: 6 Apr 2019 14:44

Tgt Ion: 43 Resp: 4682

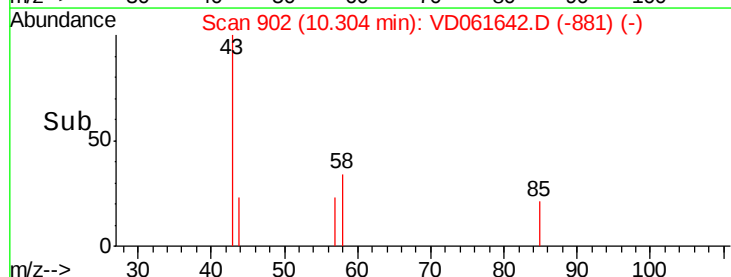
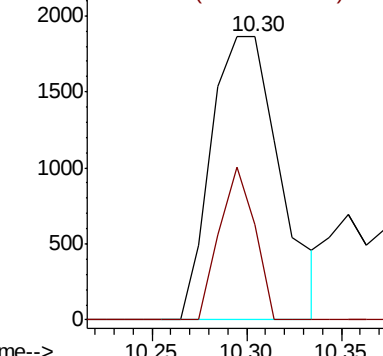
Ion Ratio Lower Upper

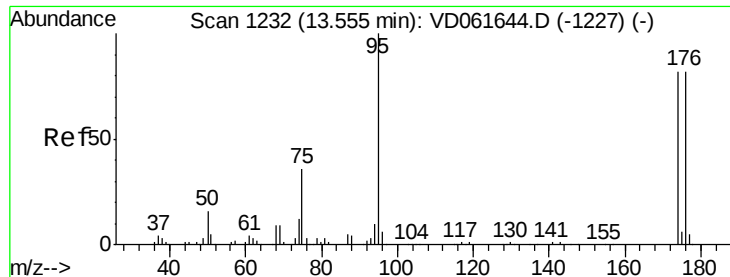
43 100

58 33.7 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: Below ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD061642.D

Acq: 6 Apr 2019 14:44

Instrument :

MSVOA_D

ClientSampleId :

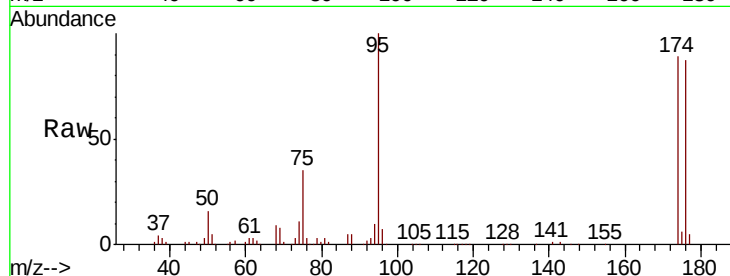
Tot Ion: 95 Resp: 359818

Ion Ratio Lower Upper

95 100

174 89.3 0.0 164.6

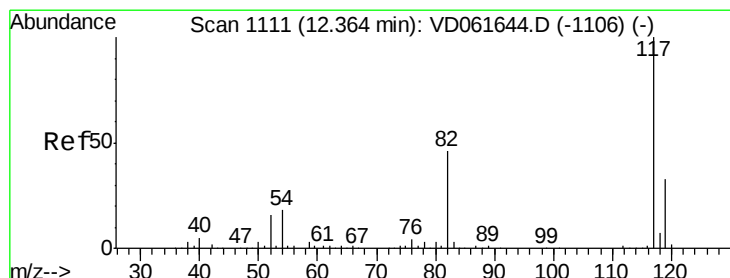
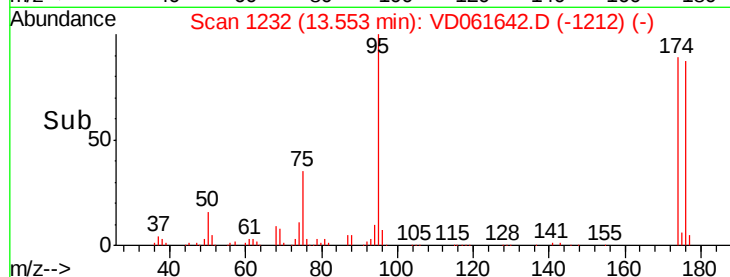
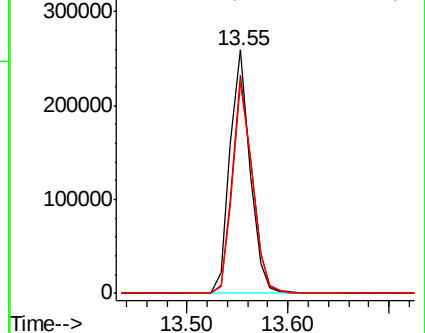
176 86.6 0.0 165.0



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: 12.36 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VD061642.D

Acq: 6 Apr 2019 14:44

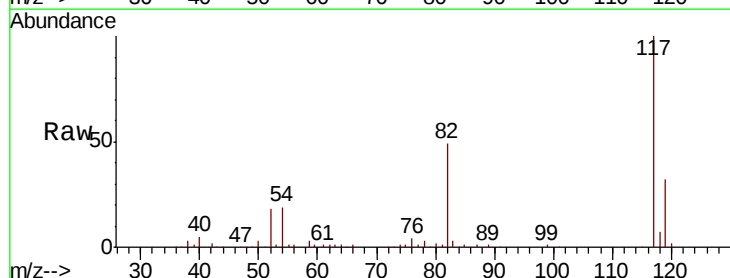
Tgt Ion: 117 Resp: 964728

Ion Ratio Lower Upper

117 100

82 48.8 36.8 55.2

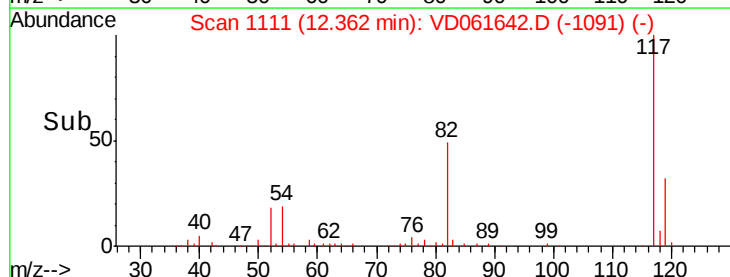
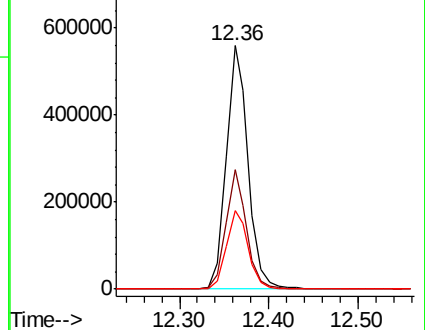
119 32.3 26.1 39.1

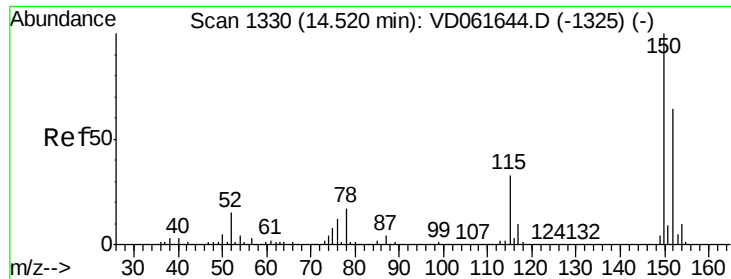


Abundance Ion 116.95 (116.65 to 117.65): V

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: 14.52 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VD061642.D

Acq: 6 Apr 2019 14:44

Instrument :

MSVOA_D

ClientSampleId :

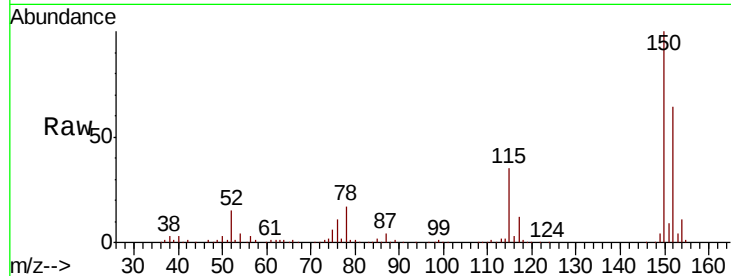
Tot Ion:152 Resp: 456762

Ion Ratio Lower Upper

152 100

115 55.1 26.4 79.2

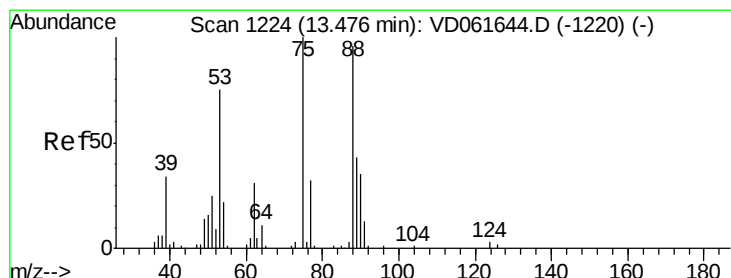
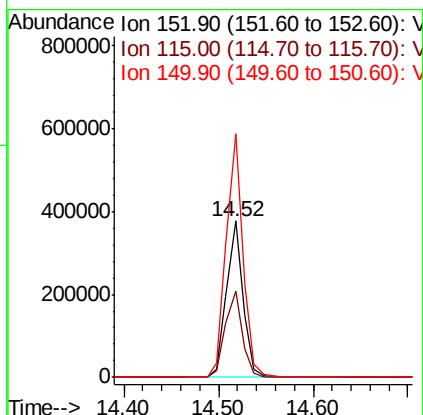
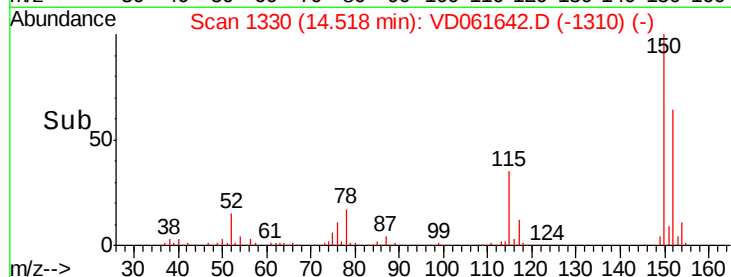
150 156.1 0.0 320.6



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



#81

trans-1,4-Dichloro-2-butene

Concen: 69.266 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD061642.D

Acq: 6 Apr 2019 14:44

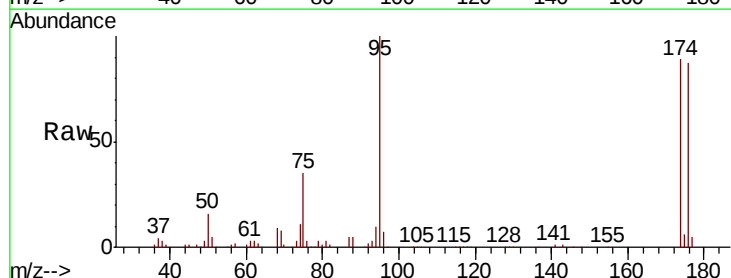
Tgt Ion: 75 Resp: 130618

Ion Ratio Lower Upper

75 100

53 0.0 60.2 90.2#

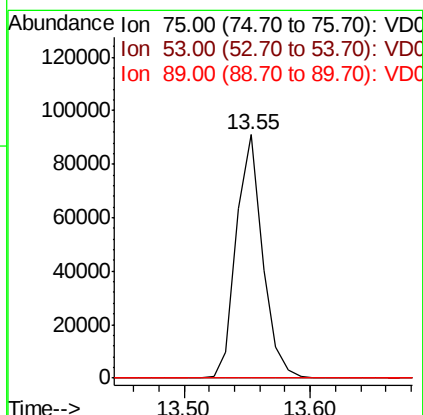
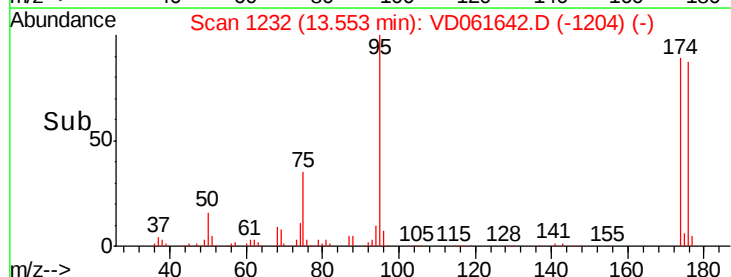
89 0.0 34.2 51.2#

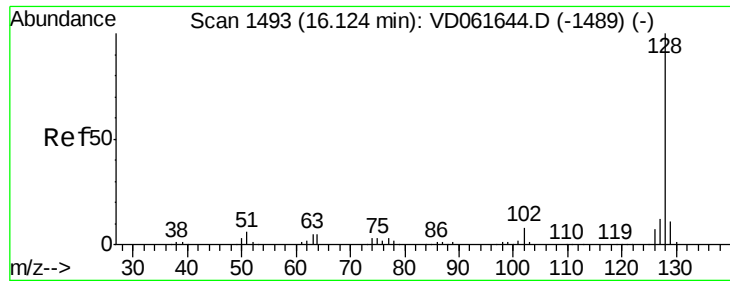


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#95

Naphthalene

Concen: 1.475 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VD061642.D

Acq: 6 Apr 2019 14:44

Instrument :

MSVOA_D

ClientSampleId :

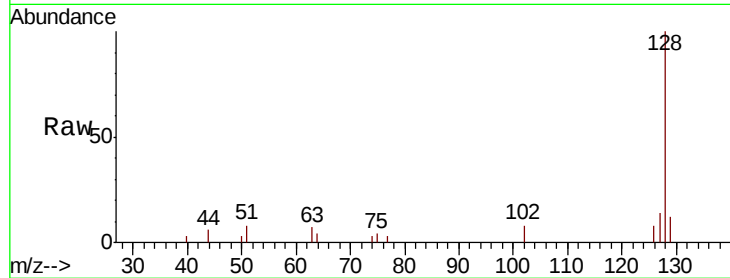
Tot Ion:128 Resp: 14901

Ion Ratio Lower Upper

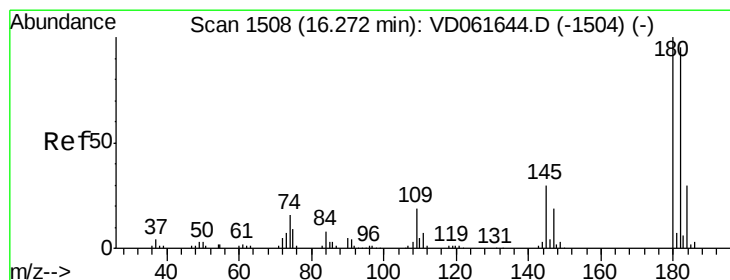
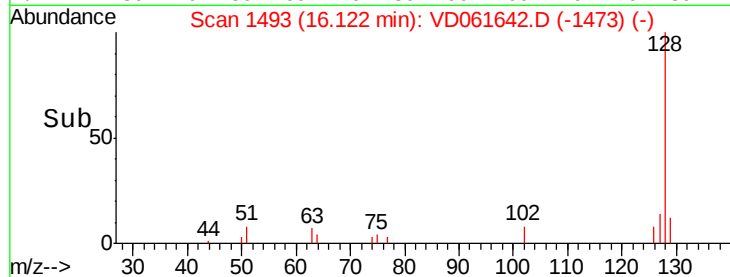
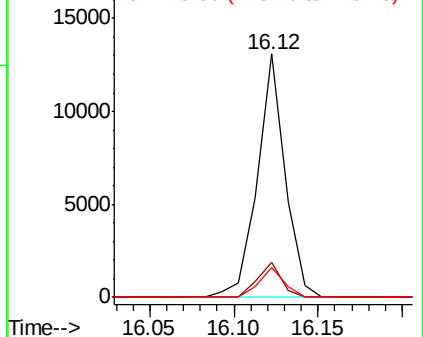
128 100

127 14.2 9.4 14.2

129 12.1 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 1.502 ug/l

RT: 16.27 min Scan# 1508

Delta R.T. -0.00 min

Lab File: VD061642.D

Acq: 6 Apr 2019 14:44

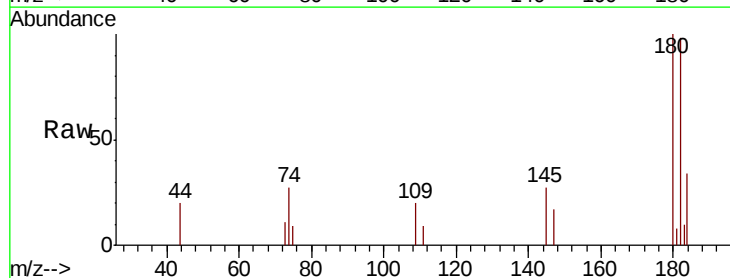
Tgt Ion:180 Resp: 4787

Ion Ratio Lower Upper

180 100

182 98.3 47.3 142.0

145 26.6 15.1 45.3



Abundance Ion 179.85 (179.55 to 180.55): V
Ion 181.85 (181.55 to 182.55): V
Ion 144.95 (144.65 to 145.65): V

