

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD040519\
 Data File : VD061621.D
 Acq On : 5 Apr 2019 15:22
 Operator : VA/AP
 Sample : K2230-02RE
 Misc : 3.61g/5ml/MSVOA_D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RICH-REC-ROAD-STONE-14RE

Quant Time: Apr 05 16:51:53 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	7.03	168	525319	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.20	114	880868	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.36	117	710603	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	312386	50.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4		7.44	65	196241	43.73	ug/l	0.00
Spiked Amount	50.000			Recovery	=	87.46%	
35) Dibromofluoromethane		6.90	113	1626	0.24	ug/l	0.00
Spiked Amount	50.000			Recovery	=	0.48%	
50) Toluene-d8		10.39	98	652382	40.41	ug/l	0.00
Spiked Amount	50.000			Recovery	=	80.82%	
62) 4-Bromofluorobenzene		13.55	95	280035	45.23	ug/l	0.00
Spiked Amount	50.000			Recovery	=	90.46%	

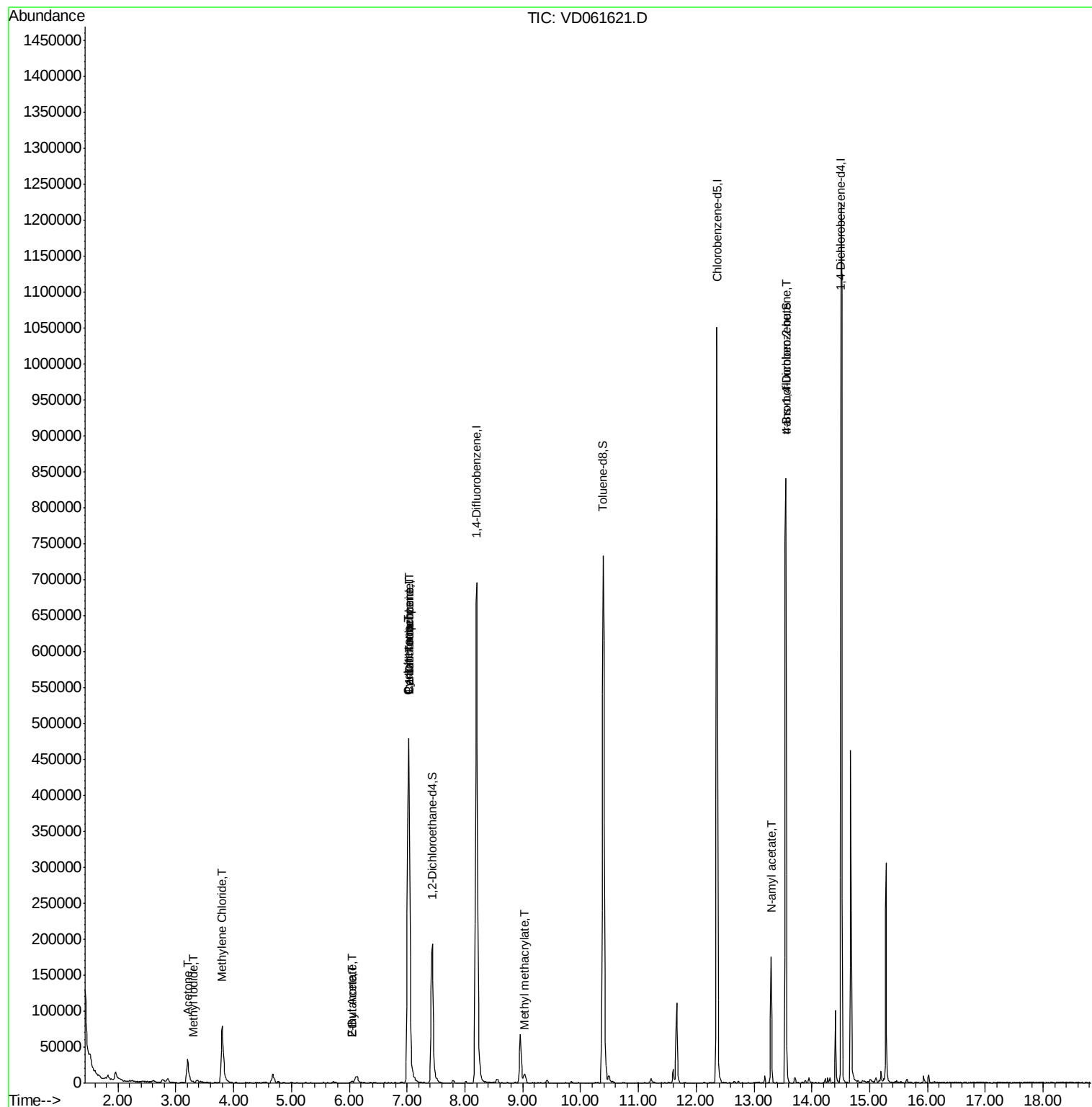
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.30	142	234	3.488	ug/l #	38
16) Acetone	3.20	43	63302	54.874	ug/l	95
20) Methylene Chloride	3.80	84	61747	7.940	ug/l	97
25) 2-Butanone	6.04	43	6244	4.303	ug/l #	54
31) Cyclohexane	7.01	56	8411	1.088	ug/l #	1
36) 1,1-Dichloropropene	7.02	75	38824	5.050	ug/l #	44
37) Ethyl Acetate	6.04	43	6244	1.899	ug/l #	65
38) Carbon Tetrachloride	7.02	117	51102	5.785	ug/l #	13
48) Methyl methacrylate	9.03	41	5424	2.054	ug/l #	43
74) N-amyl acetate	13.29	43	23938	3.952	ug/l #	1
81) trans-1,4-Dichloro-2-buten	13.54	75	103292	75.074	ug/l #	18

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

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 570

Delta R.T. 0.02 min

Lab File: VD061621.D

Acq: 5 Apr 2019 15:22

Instrument :

MSVOA_D

ClientSampleId :

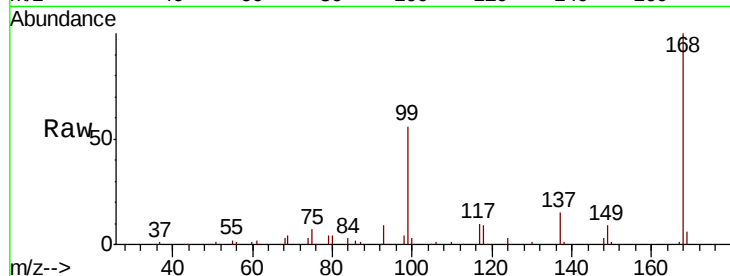
RICH-REC-ROAD-STONE-14RE

Tgt Ion:168 Resp: 525319

Ion Ratio Lower Upper

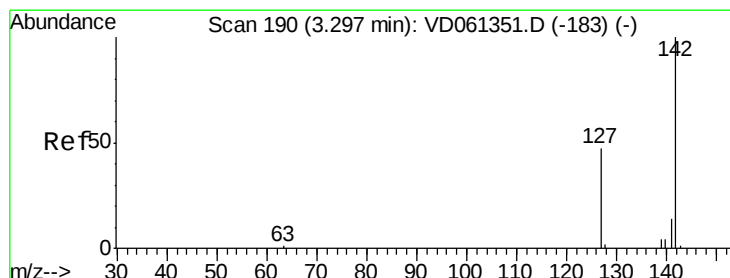
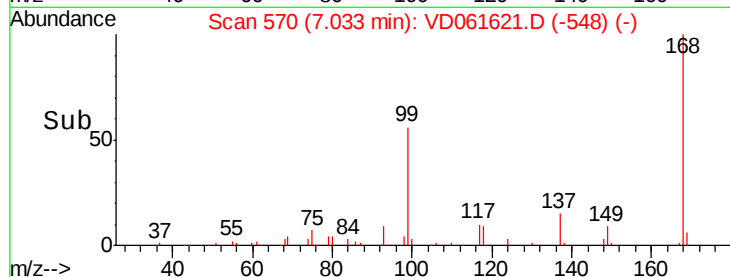
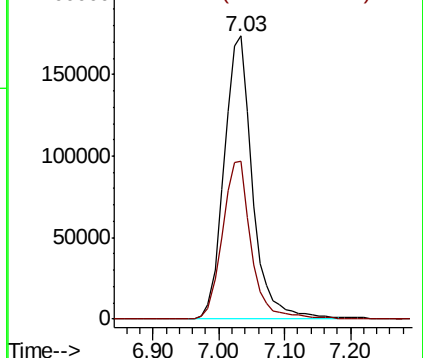
168 100

99 55.6 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V



#10

Methyl Iodide

Concen: 3.488 ug/l

RT: 3.30 min Scan# 191

Delta R.T. 0.01 min

Lab File: VD061621.D

Acq: 5 Apr 2019 15:22

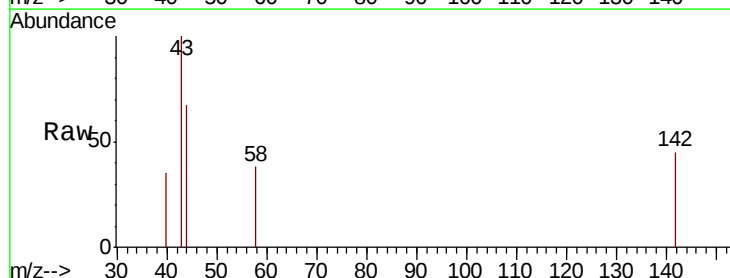
Tgt Ion:142 Resp: 234

Ion Ratio Lower Upper

142 100

127 0.0 37.7 56.5#

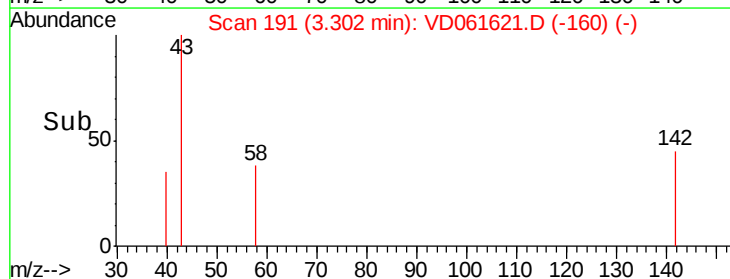
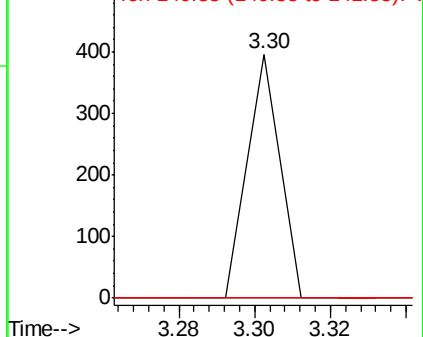
141 0.0 11.5 17.3#

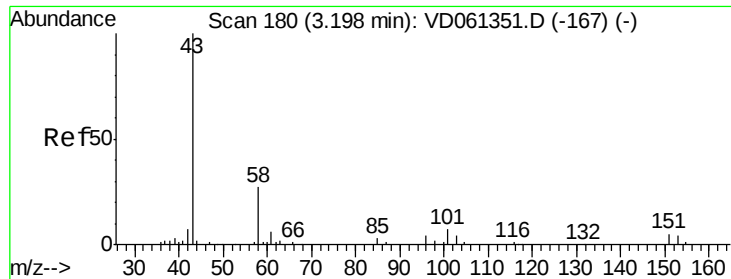


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V





#16

Acetone

Concen: 54.874 ug/l

RT: 3.20 min Scan# 181

Delta R.T. 0.01 min

Lab File: VD061621.D

Acq: 5 Apr 2019 15:22

Instrument :

MSVOA_D

ClientSampleId :

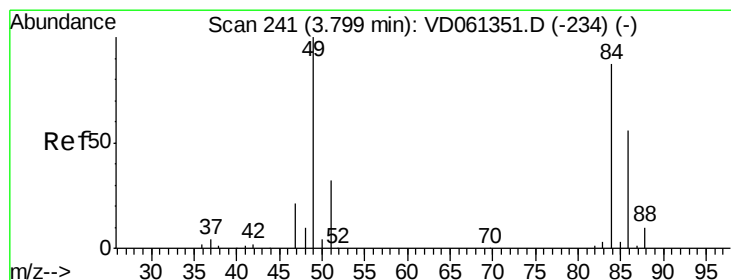
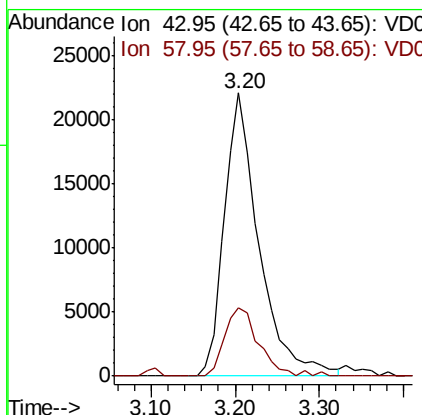
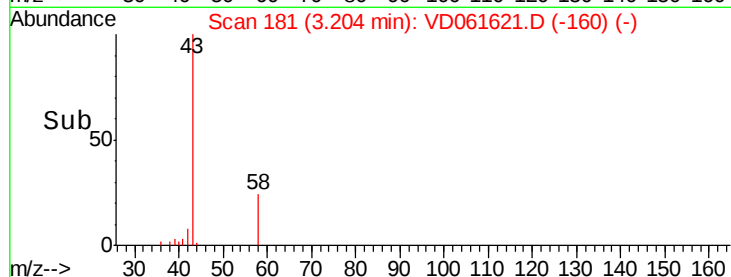
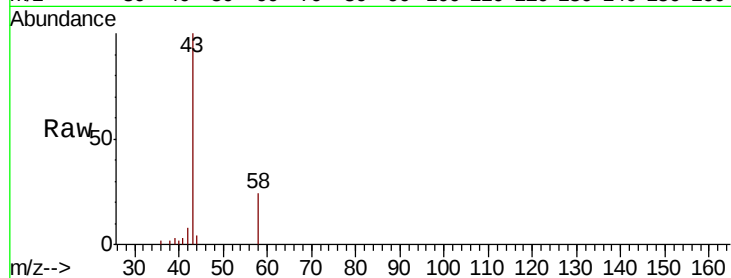
RICH-REC-ROAD-STONE-14RE

Tgt Ion: 43 Resp: 63302

Ion Ratio Lower Upper

43 100

58 24.2 21.5 32.3



#20

Methylene Chloride

Concen: 7.940 ug/l

RT: 3.80 min Scan# 242

Delta R.T. 0.01 min

Lab File: VD061621.D

Acq: 5 Apr 2019 15:22

Tgt Ion: 84 Resp: 61747

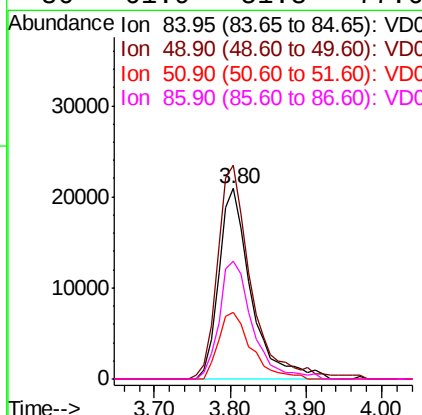
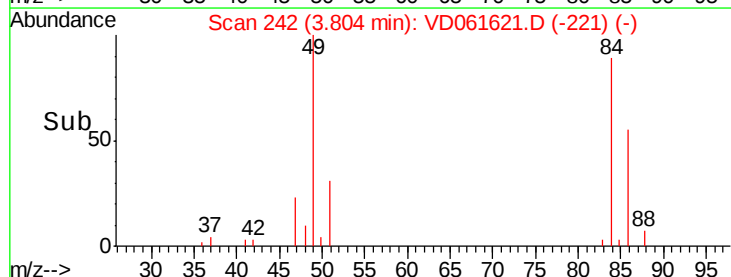
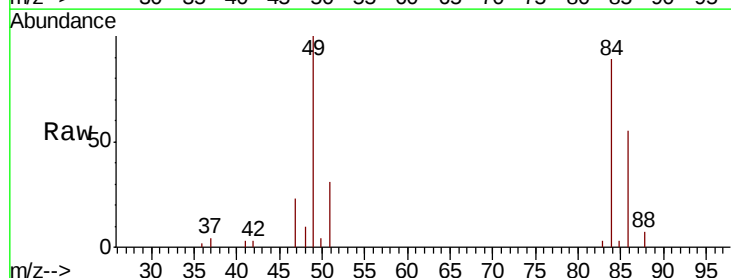
Ion Ratio Lower Upper

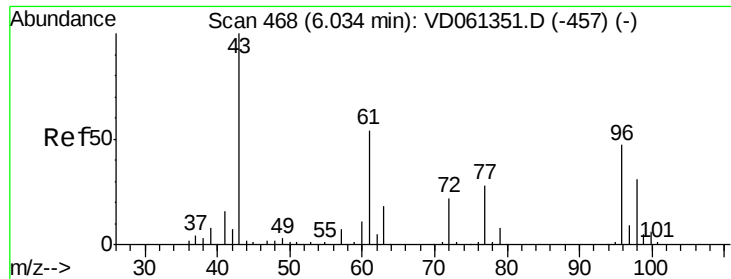
84 100

49 112.3 91.8 137.8

51 34.8 29.8 44.8

86 61.9 51.8 77.6





#25

2-Butanone

Concen: 4.303 ug/l

RT: 6.04 min Scan# 469

Delta R.T. 0.01 min

Lab File: VD061621.D

Acq: 5 Apr 2019 15:22

Instrument :

MSVOA_D

ClientSampleId :

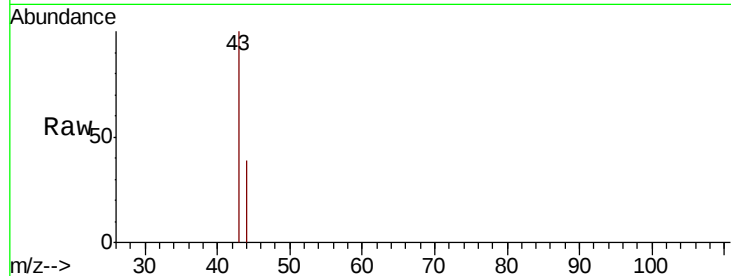
RICH-REC-ROAD-STONE-14RE

Tgt Ion: 43 Resp: 6244

Ion Ratio Lower Upper

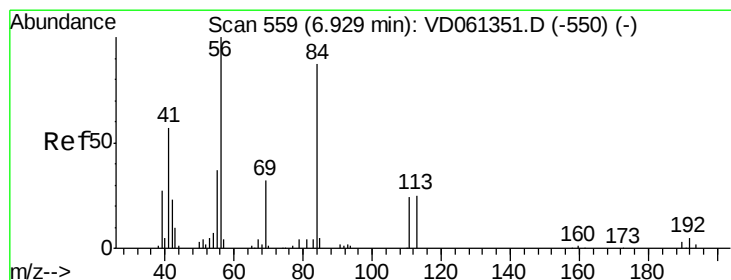
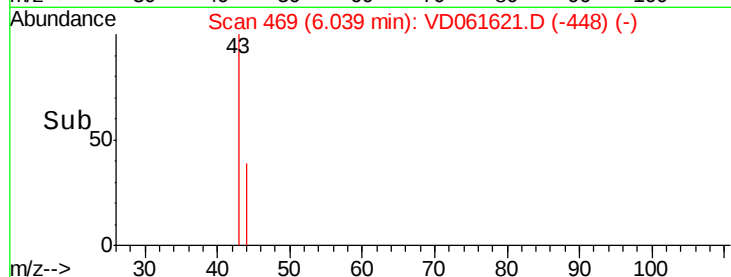
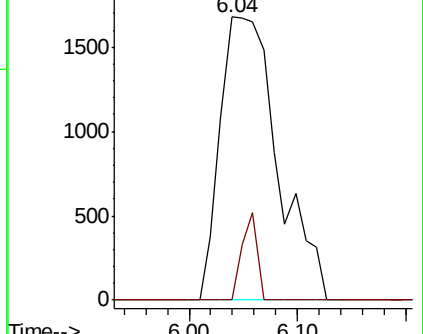
43 100

72 0.0 17.2 25.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: 1.088 ug/l

RT: 7.01 min Scan# 568

Delta R.T. 0.08 min

Lab File: VD061621.D

Acq: 5 Apr 2019 15:22

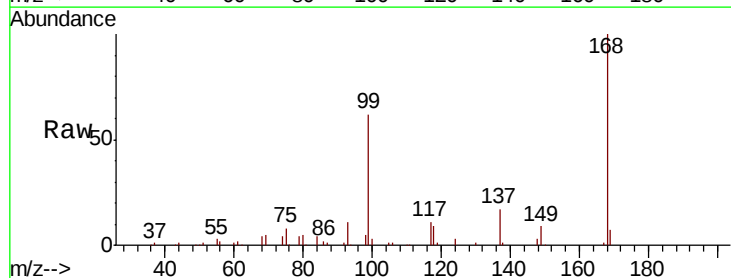
Tgt Ion: 56 Resp: 8411

Ion Ratio Lower Upper

56 100

69 191.0 25.7 38.5#

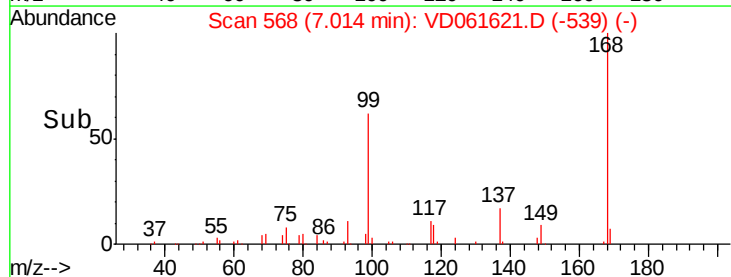
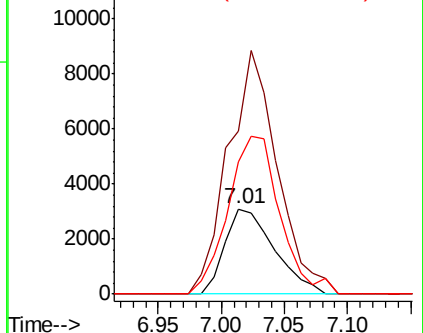
84 156.1 70.6 105.8#

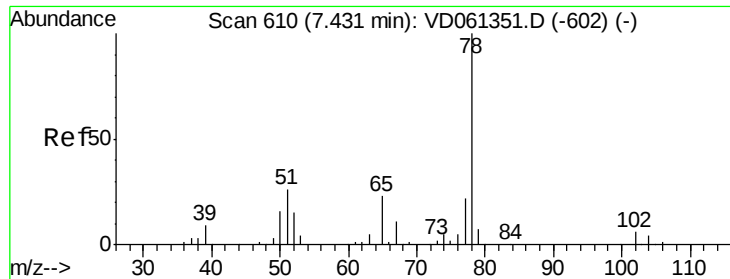


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

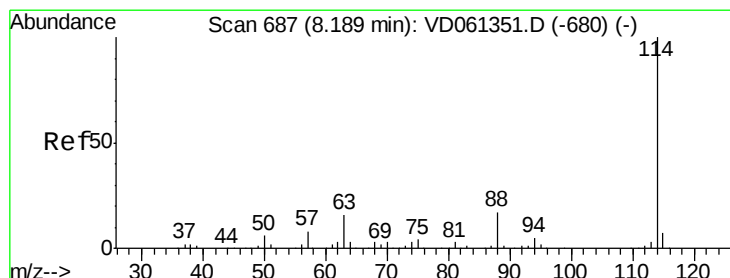
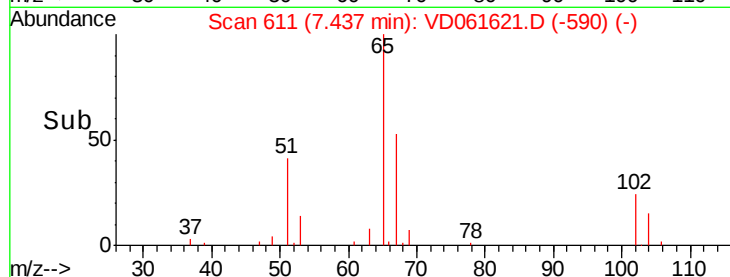
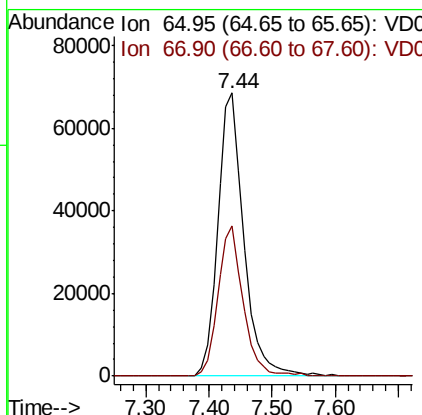
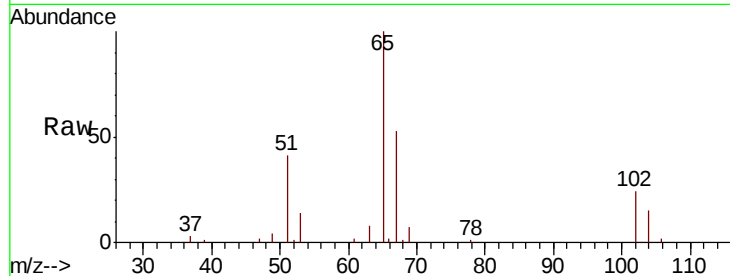




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.44 min Scan# 611
 Delta R.T. 0.01 min
 Lab File: VD061621.D
 Acq: 5 Apr 2019 15:22

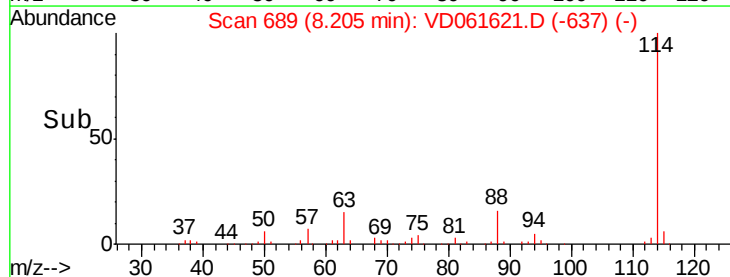
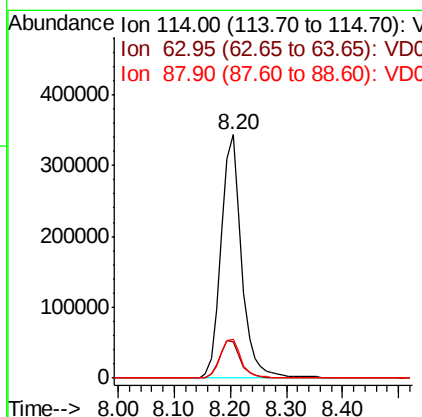
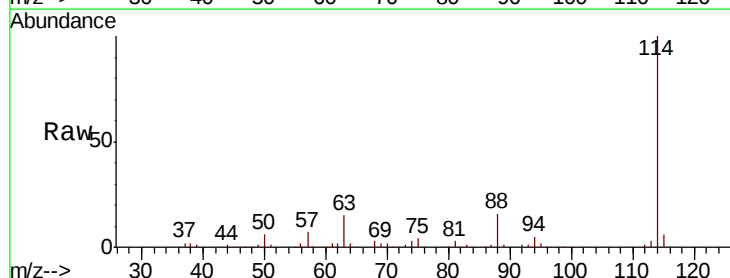
Instrument :
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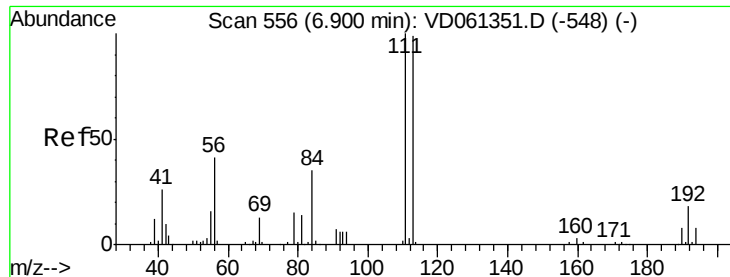
Tgt Ion: 65 Resp: 196241
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 99.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.20 min Scan# 689
 Delta R.T. 0.02 min
 Lab File: VD061621.D
 Acq: 5 Apr 2019 15:22

Tgt Ion: 114 Resp: 880868
 Ion Ratio Lower Upper
 114 100
 63 14.9 0.0 31.6
 88 16.2 0.0 33.4

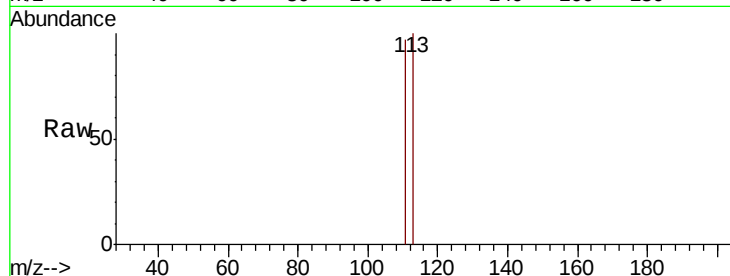




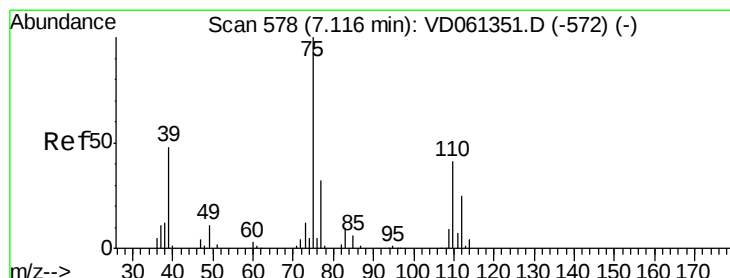
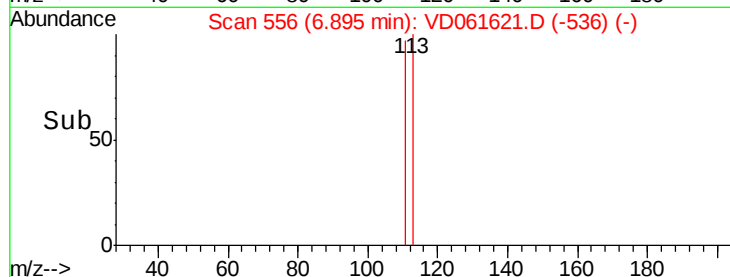
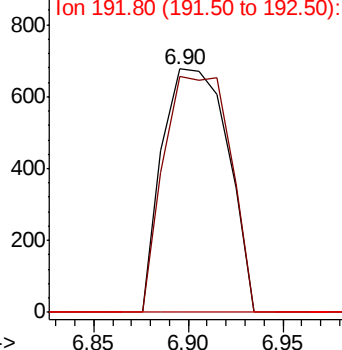
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.90 min Scan# 556
 Delta R.T. -0.00 min
 Lab File: VD061621.D
 Acq: 5 Apr 2019 15:22

Instrument :
 MSVOA_D
 ClientSampleId :
 RICH-REC-ROAD-STONE-14RE

Tgt Ion: 113 Resp: 1626
 Ion Ratio Lower Upper
 113 100
 111 96.8 81.0 121.6
 192 0.0 14.4 21.6#

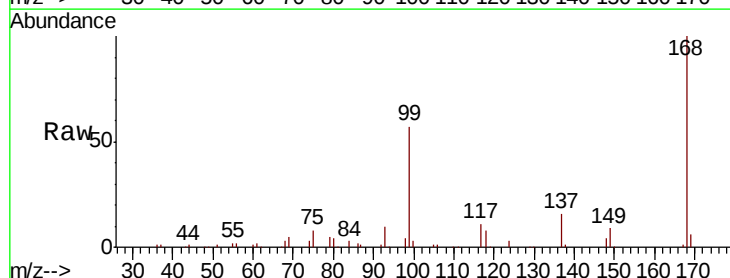


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

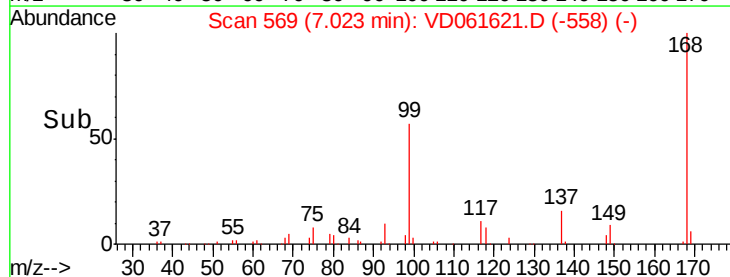
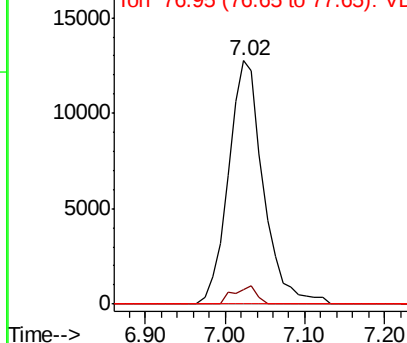


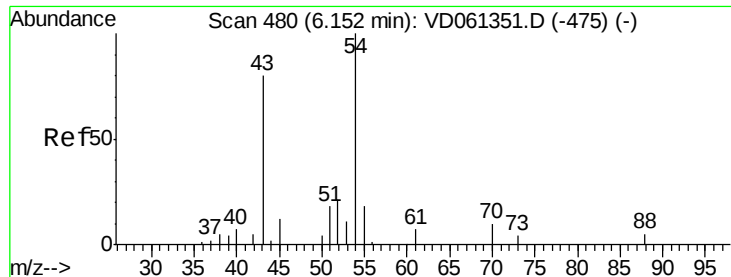
#36
 1,1-Dichloropropene
 Concen: 5.050 ug/l
 RT: 7.02 min Scan# 569
 Delta R.T. -0.09 min
 Lab File: VD061621.D
 Acq: 5 Apr 2019 15:22

Tgt Ion: 75 Resp: 38824
 Ion Ratio Lower Upper
 75 100
 110 5.9 20.4 61.3#
 77 0.0 24.9 37.3#



Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.95 (76.65 to 77.65): VDC

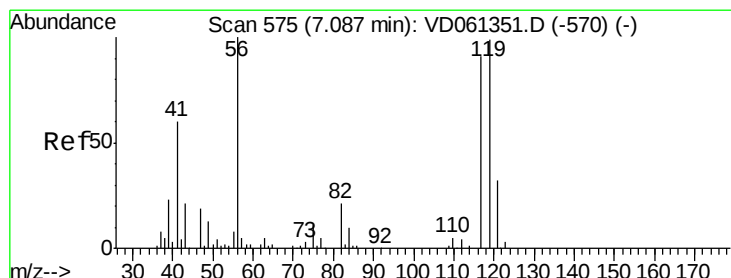
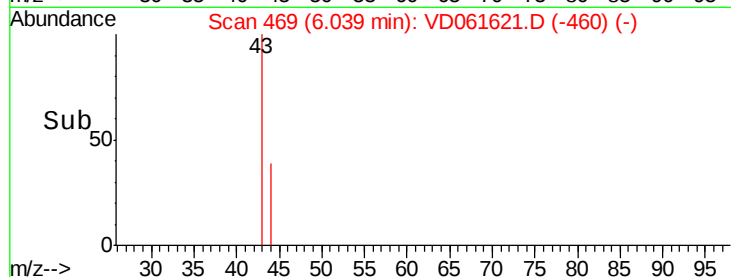
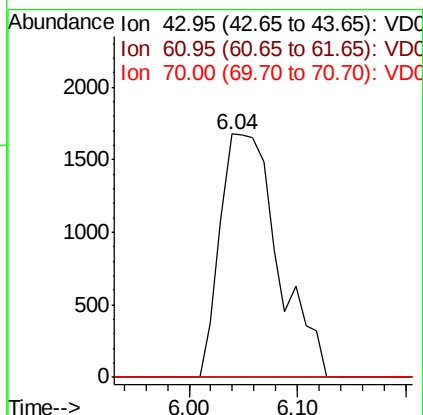
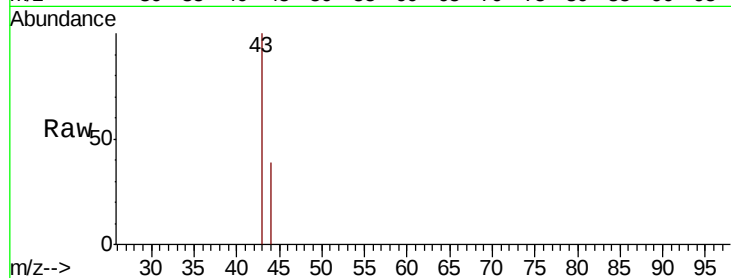




#37
 Ethyl Acetate
 Concen: 1.899 ug/l
 RT: 6.04 min Scan# 469
 Delta R.T. -0.11 min
 Lab File: VD061621.D
 Acq: 5 Apr 2019 15:22

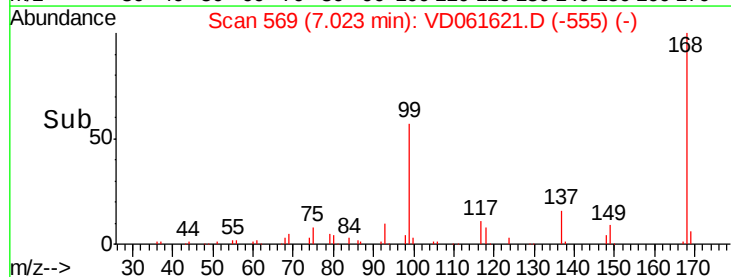
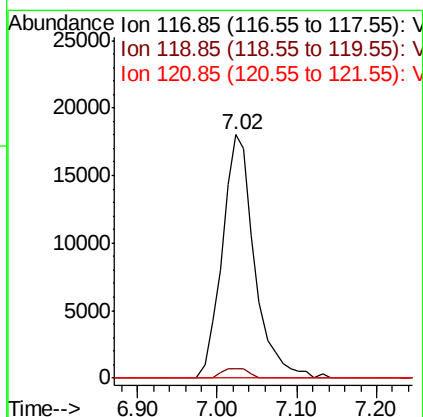
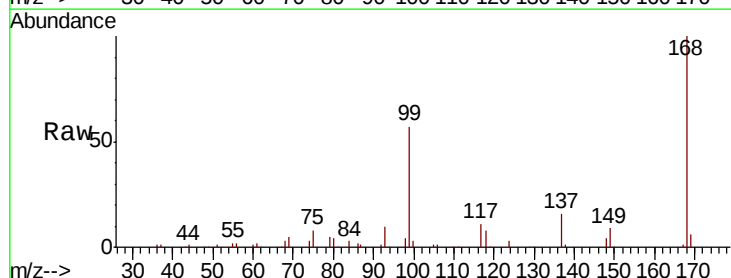
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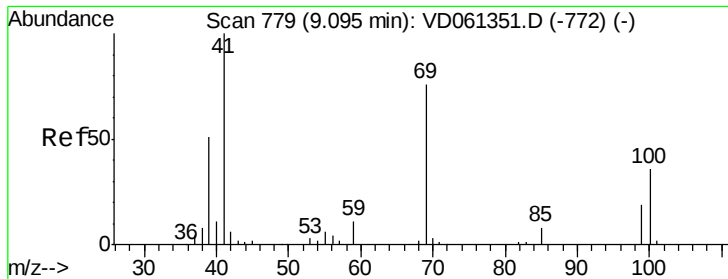
Tgt Ion: 43 Resp: 6244
 Ion Ratio Lower Upper
 43 100
 61 0.0 13.8 20.8#
 70 0.0 7.8 11.8#



#38
 Carbon Tetrachloride
 Concen: 5.785 ug/l
 RT: 7.02 min Scan# 569
 Delta R.T. -0.06 min
 Lab File: VD061621.D
 Acq: 5 Apr 2019 15:22

Tgt Ion: 117 Resp: 51102
 Ion Ratio Lower Upper
 117 100
 119 3.8 80.1 120.1#
 121 0.0 25.6 38.4#

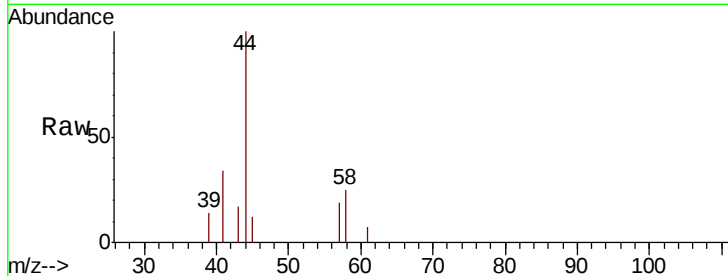




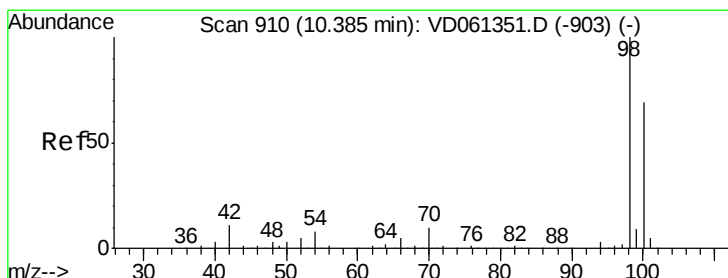
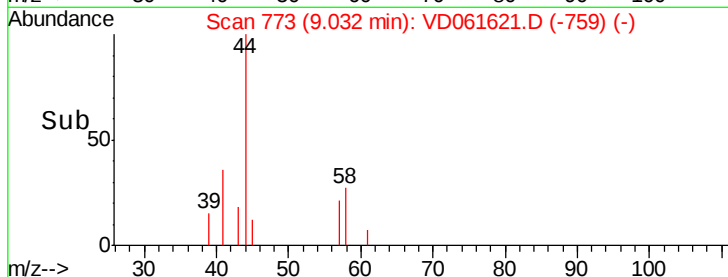
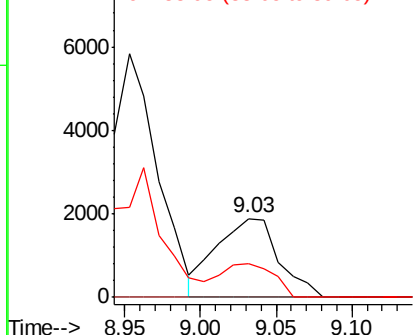
#48
Methyl methacrylate
Concen: 2.054 ug/l
RT: 9.03 min Scan# 773
Delta R.T. -0.06 min
Lab File: VD061621.D
Acq: 5 Apr 2019 15:22

Instrument :
MSVOA_D
ClientSampleId :
RICH-REC-ROAD-STONE-14RE

Tgt Ion: 41 Resp: 5424
Ion Ratio Lower Upper
41 100
69 0.0 60.2 90.4#
39 42.8 41.4 62.2

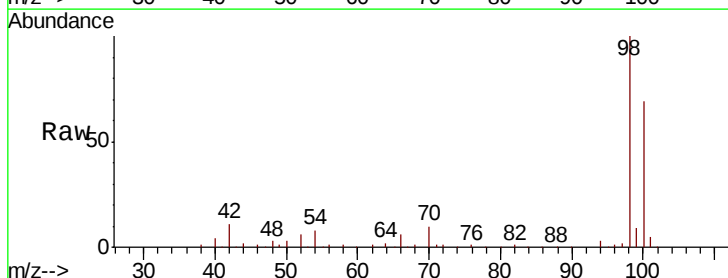


Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 38.95 (38.65 to 39.65): VDC

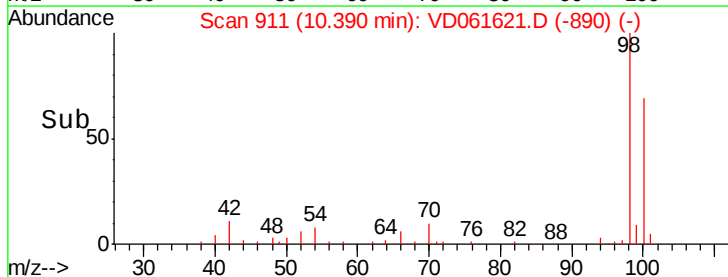
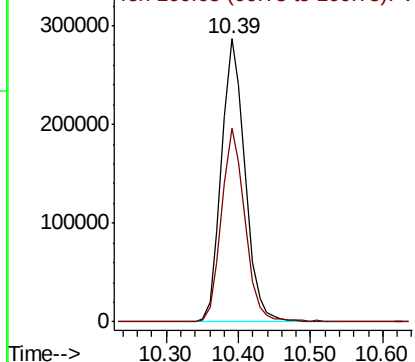


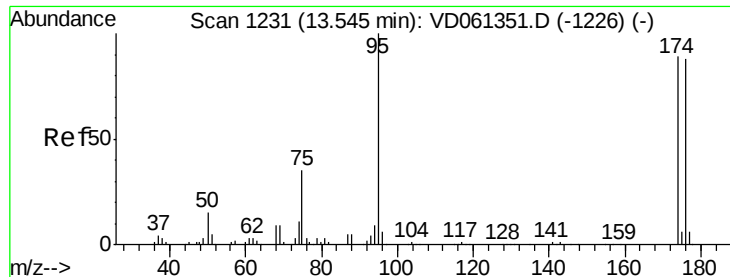
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.39 min Scan# 911
Delta R.T. 0.01 min
Lab File: VD061621.D
Acq: 5 Apr 2019 15:22

Tgt Ion: 98 Resp: 652382
Ion Ratio Lower Upper
98 100
100 68.6 56.2 84.2



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





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.01 min

Lab File: VD061621.D

Acq: 5 Apr 2019 15:22

Instrument :

MSVOA_D

ClientSampleId :

RICH-REC-ROAD-STONE-14RE

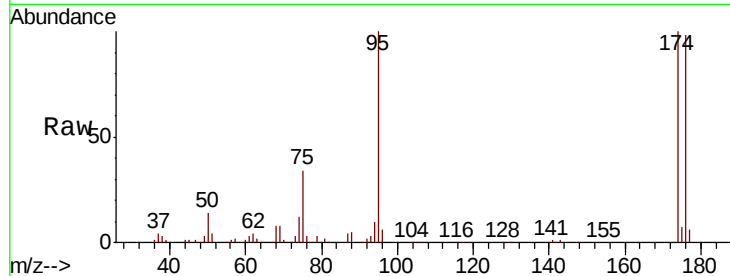
Tgt Ion: 95 Resp: 280035

Ion Ratio Lower Upper

95 100

174 99.8 0.0 178.0

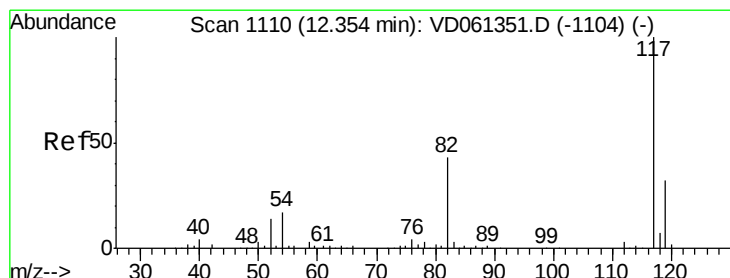
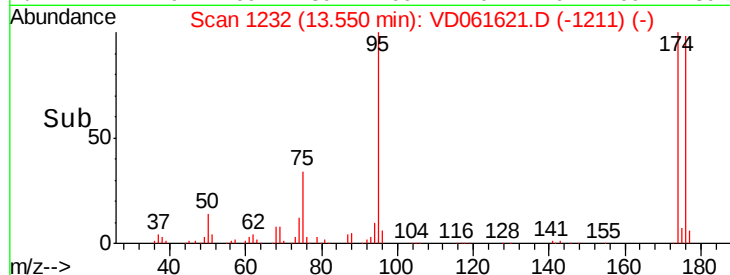
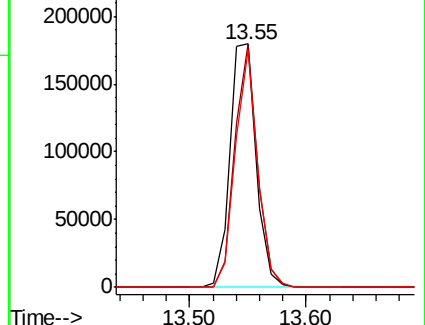
176 97.7 0.0 175.0



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. 0.01 min

Lab File: VD061621.D

Acq: 5 Apr 2019 15:22

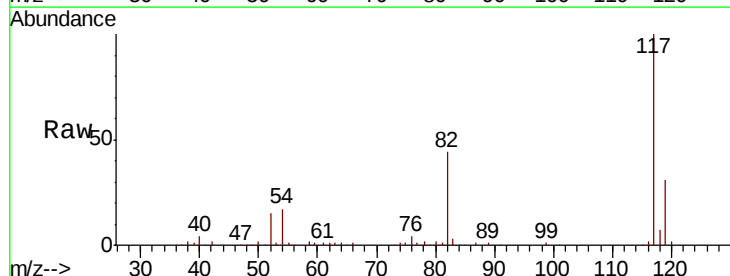
Tgt Ion: 117 Resp: 710603

Ion Ratio Lower Upper

117 100

82 44.1 34.4 51.6

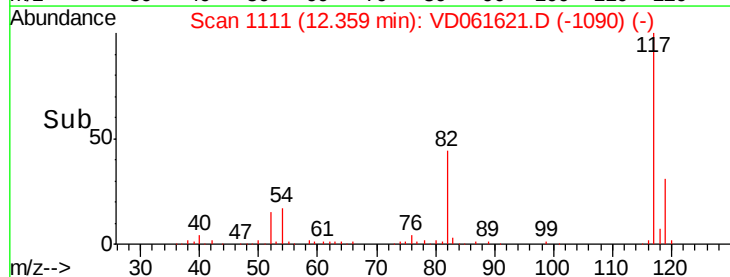
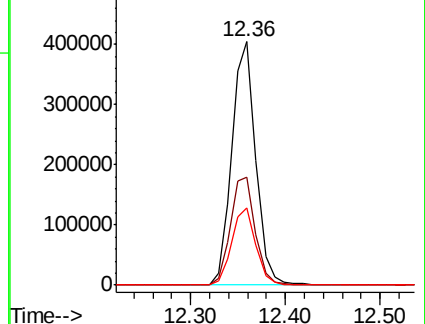
119 31.5 25.8 38.6

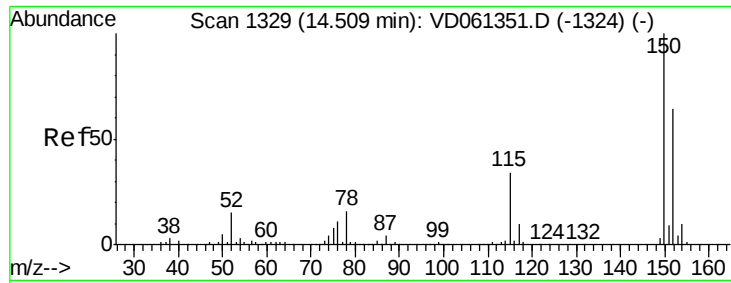


Abundance Ion 116.95 (116.65 to 117.65): V

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: VD061621.D

Acq: 5 Apr 2019 15:22

Instrument :

MSVOA_D

ClientSampleId :

RICH-REC-ROAD-STONE-14RE

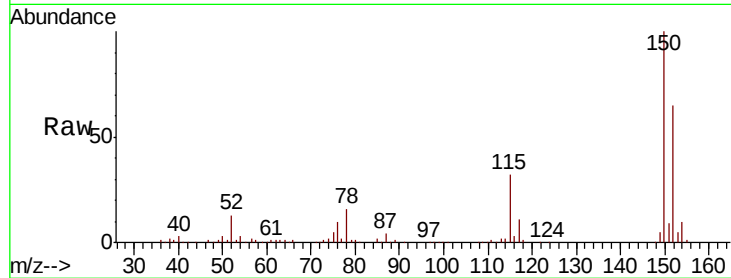
Tgt Ion:152 Resp: 312386

Ion Ratio Lower Upper

152 100

115 49.3 26.9 80.6

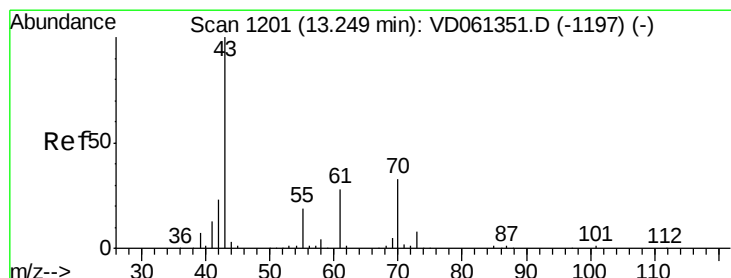
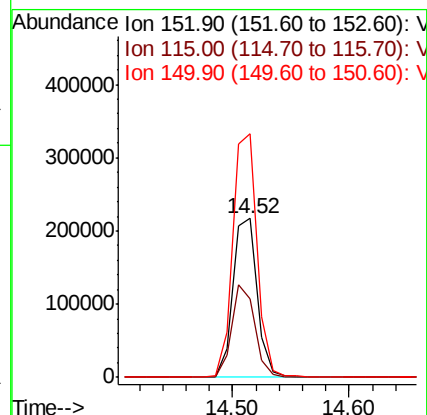
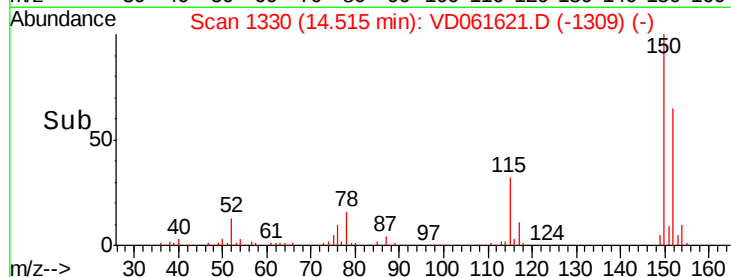
150 153.6 0.0 318.0



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



#74

N-ethyl acetate

Concen: 3.952 ug/l

RT: 13.29 min Scan# 1206

Delta R.T. 0.04 min

Lab File: VD061621.D

Acq: 5 Apr 2019 15:22

Tgt Ion: 43 Resp: 23938

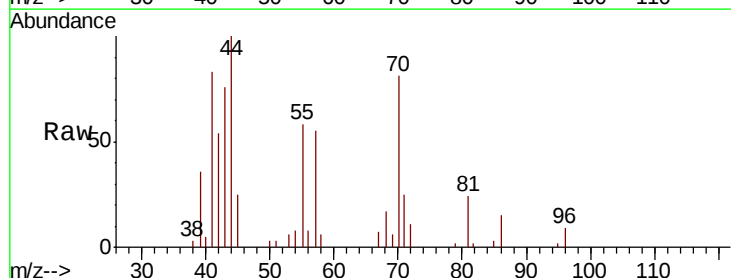
Ion Ratio Lower Upper

43 100

70 106.3 26.6 40.0#

55 76.1 15.4 23.2#

61 0.0 22.2 33.4#

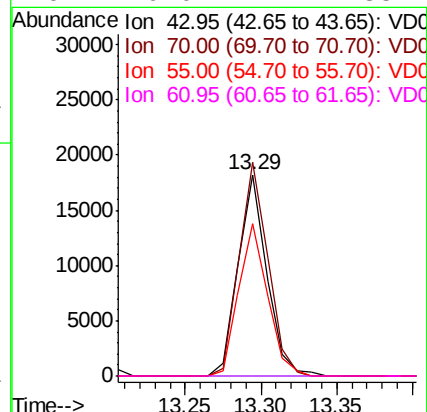
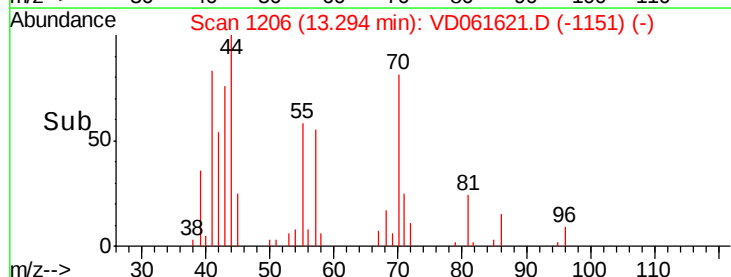


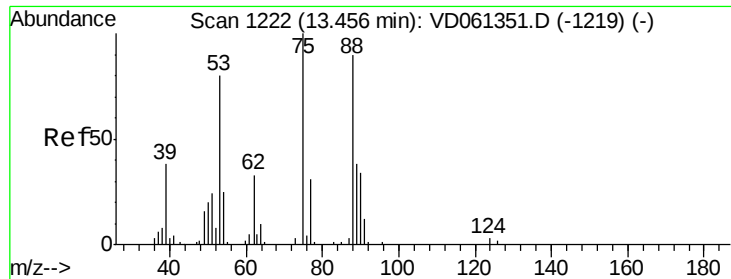
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 75.074 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. 0.08 min

Lab File: VD061621.D

Acq: 5 Apr 2019 15:22

Instrument :

MSVOA_D

ClientSampleId :

RICH-REC-ROAD-STONE-14RE

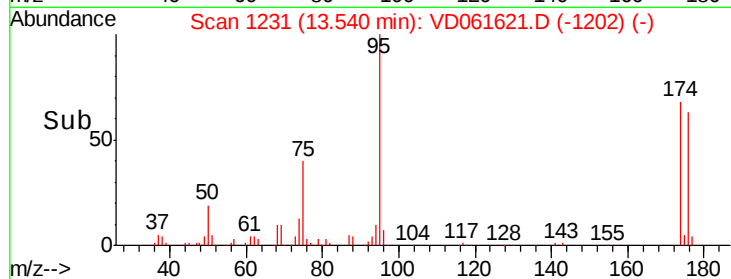
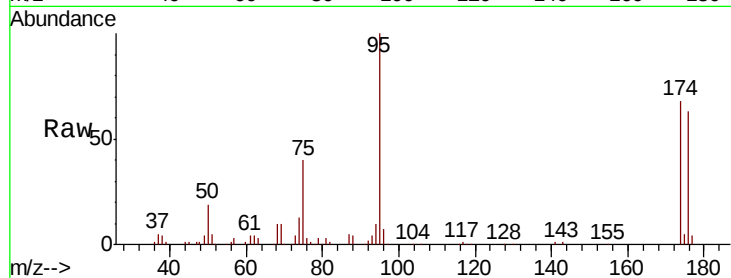
Tgt Ion: 75 Resp: 103292

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

