

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072219\
 Data File : VD063179.D
 Acq On : 22 Jul 2019 16:14
 Operator : VA/AP
 Sample : K3916-01
 Misc : 5.01µl/5ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 GIS-BUILDING-1

Quant Time: Jul 23 07:50:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.07	168	785703	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.24	114	1124293	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.38	117	531145	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.53	152	83145	50.00	ug/l	0.01

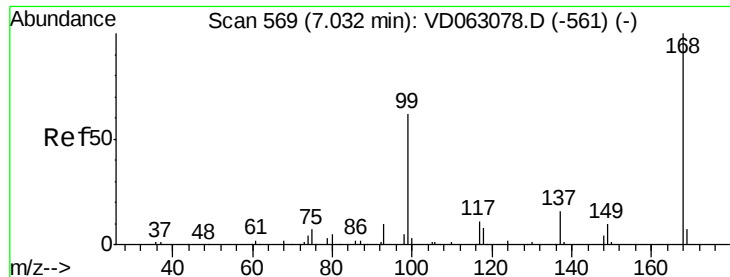
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.47	65	564167	57.64	ug/l	0.02
Spiked Amount	50.000		Recovery	=	115.28%	
35) Dibromofluoromethane	6.94	113	648099	57.88	ug/l	0.02
Spiked Amount	50.000		Recovery	=	115.76%	
50) Toluene-d8	10.42	98	1001985	41.66	ug/l	0.02
Spiked Amount	50.000		Recovery	=	83.32%	
62) 4-Bromofluorobenzene	13.56	95	202456	18.19	ug/l	0.01
Spiked Amount	50.000		Recovery	=	36.38%	

Target Compounds

						Qvalue
3) Chloromethane	1.75	50	387	Below Cal	#	48
5) Bromomethane	2.16	94	1156	Below Cal	#	13
11) Tert butyl alcohol	4.06	59	2790	4.939	ug/l #	77
13) Acrolein	2.97	56	196	1.150	ug/l #	1
16) Acetone	3.24	43	4454	1.884	ug/l #	62
18) Methyl Acetate	3.64	43	303	Below Cal	#	63
20) Methylene Chloride	3.83	84	18866	2.112	ug/l #	92
31) Cyclohexane	7.07	56	17882	1.919	ug/l #	1
36) 1,1-Dichloropropene	7.06	75	64299	5.085	ug/l #	44
37) Ethyl Acetate	6.18	43	7034	1.300	ug/l #	9
38) Carbon Tetrachloride	7.06	117	76811	3.998	ug/l #	16
49) 1,4-Dioxane	8.85	88	255	5.805	ug/l #	27
74) N-amyl acetate	13.23	43	4703	2.626	ug/l #	58
75) 1,1,2,2-Tetrachloroethane	13.72	83	1967	1.684	ug/l #	76
76) 1,2,3-Trichloropropane	13.56	75	94456	73.851	ug/l #	45
81) trans-1,4-Dichloro-2-buten	13.56	75	96868	287.604	ug/l #	1
89) n-Butylbenzene	14.80	91	11123	1.924	ug/l	81
93) 1,2,4-Trichlorobenzene	15.95	180	4228	1.943	ug/l #	1
95) Naphthalene	16.11	128	4414	1.387	ug/l #	55
96) 1,2,3-Trichlorobenzene	16.26	180	9351	5.343	ug/l #	26

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.07 min Scan# 573

Delta R.T. 0.03 min

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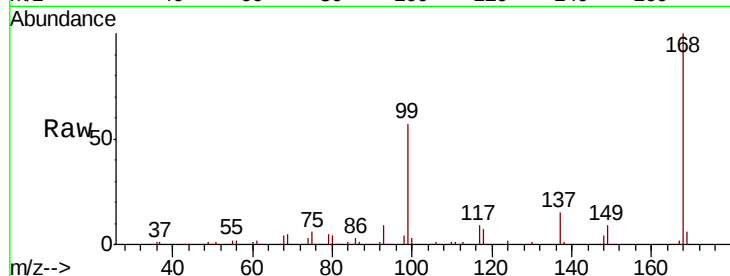
GIS-BUILDING-1

Tot Ion:168 Resp: 785703

Ion Ratio Lower Upper

168 100

99 57.0 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.07

250000

200000

150000

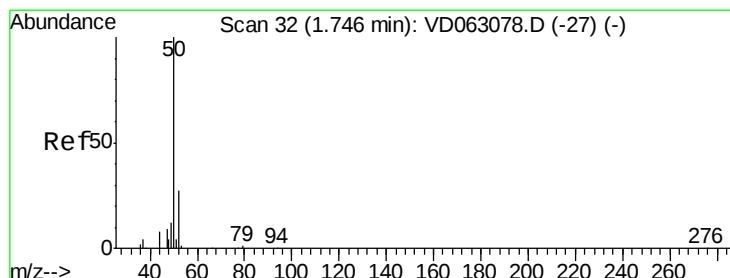
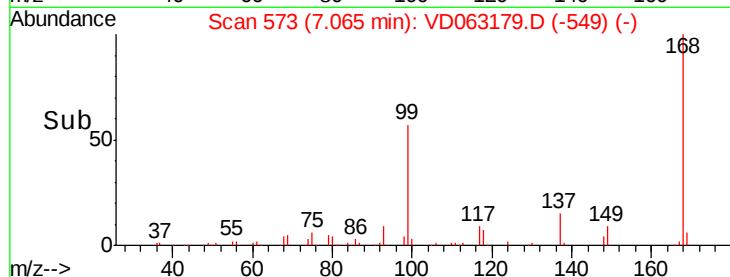
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#3

Chloromethane

Concen: Below Cal

RT: 1.75 min Scan# 33

Delta R.T. 0.00 min

Lab File: VD063179.D

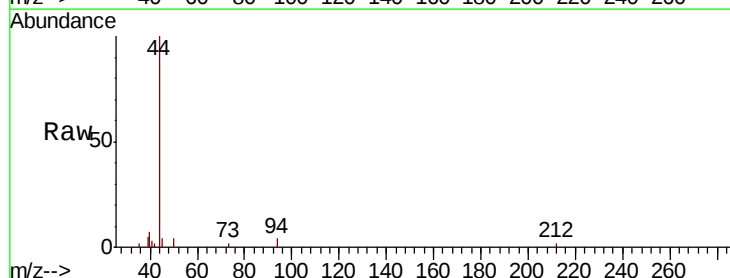
Acq: 22 Jul 2019 16:14

Tgt Ion: 50 Resp: 387

Ion Ratio Lower Upper

50 100

52 0.0 21.4 32.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.75

600

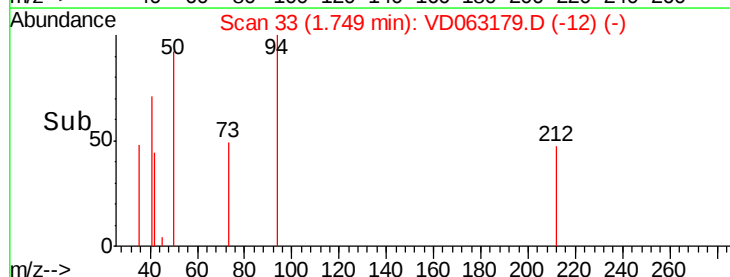
400

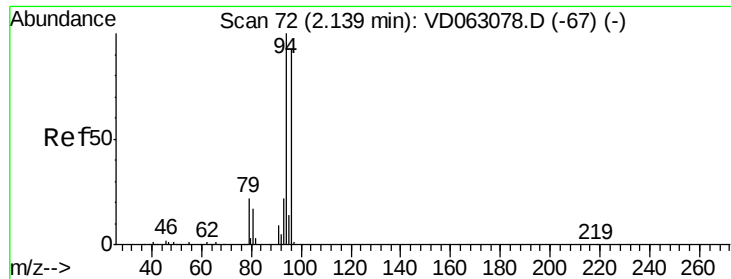
200

0

Time-->

1.74 1.76





#5

Bromomethane

Concen: Below Cal

RT: 2.16 min Scan# 75

Delta R.T. 0.02 min

Lab File: VD063179.D

Acq: 22 Jul 2019 16:14

Instrument :

MSVOA_D

ClientSampleId :

GIS-BUILDING-1

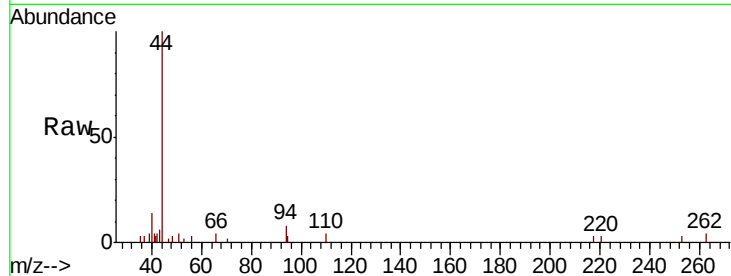
Tot Ion: 94 Resp: 1156

Ion Ratio Lower Upper

94 100

96 0.0 74.2 111.2#

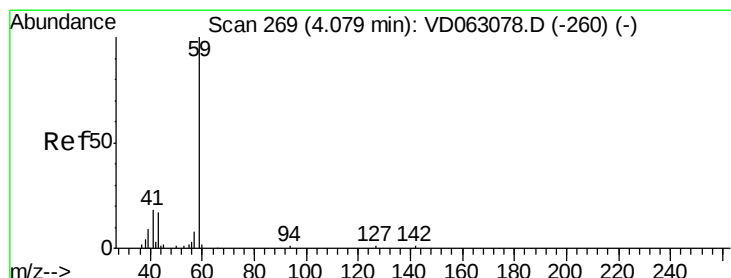
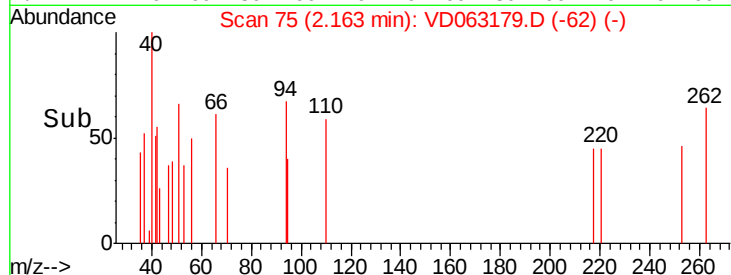
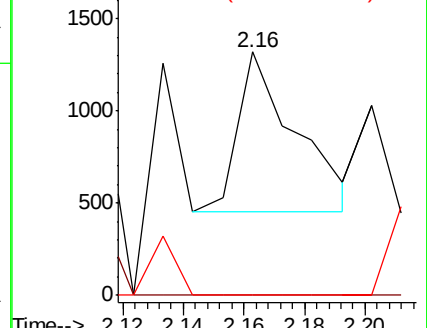
93 0.0 17.8 26.6#



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



#11

Tert butyl alcohol

Concen: 4.939 ug/l

RT: 4.06 min Scan# 268

Delta R.T. -0.02 min

Lab File: VD063179.D

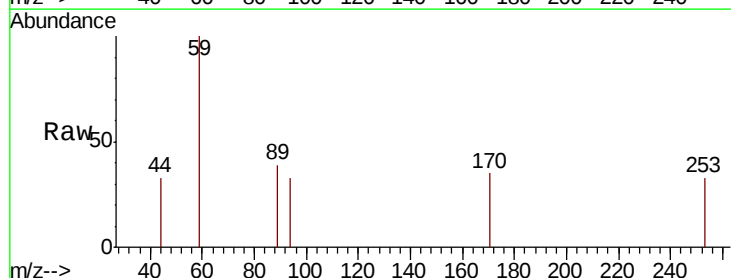
Acq: 22 Jul 2019 16:14

Tgt Ion: 59 Resp: 2790

Ion Ratio Lower Upper

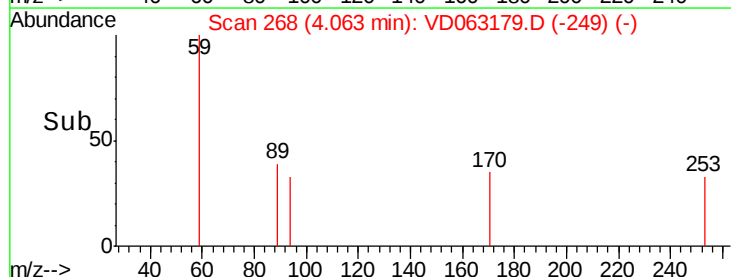
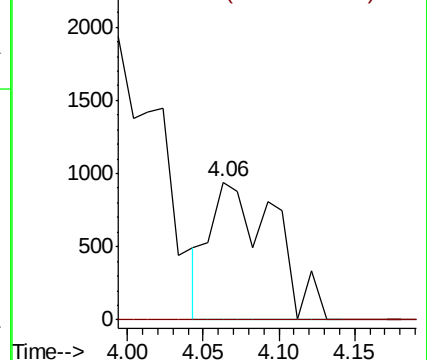
59 100

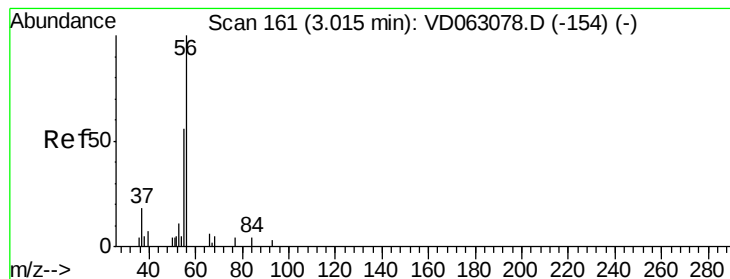
57 0.0 6.4 9.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 1.150 ug/l

RT: 2.97 min Scan# 157

Delta R.T. -0.05 min

Lab File: VD063179.D

Acq: 22 Jul 2019 16:14

Instrument :

MSVOA_D

ClientSampleId :

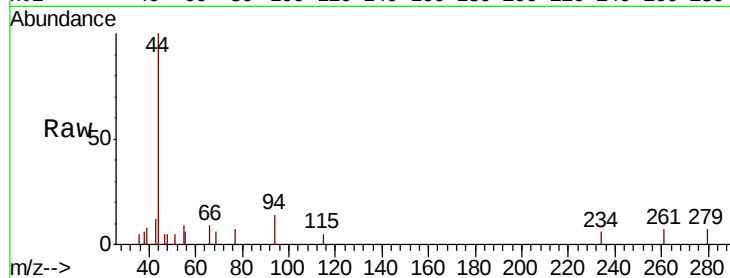
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Tot Ion: 56 Resp: 196

Ion Ratio Lower Upper

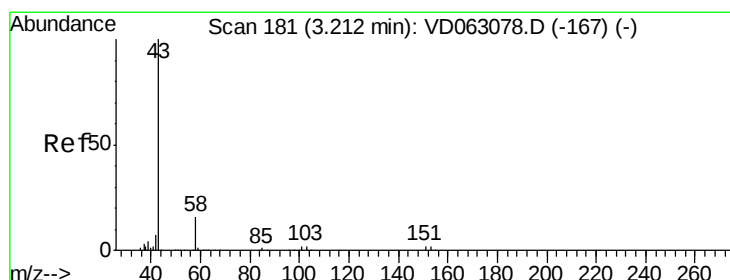
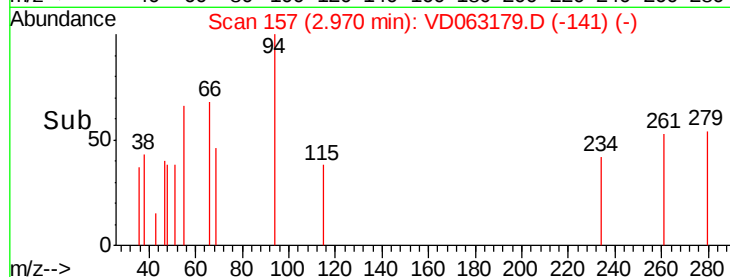
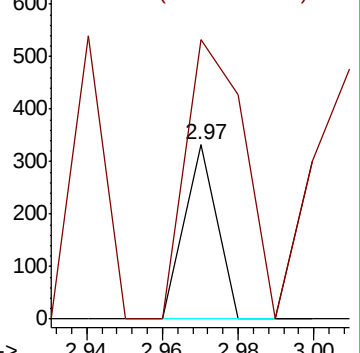
56 100

55 160.5 53.0 79.4#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 1.884 ug/l

RT: 3.24 min Scan# 184

Delta R.T. 0.02 min

Lab File: VD063179.D

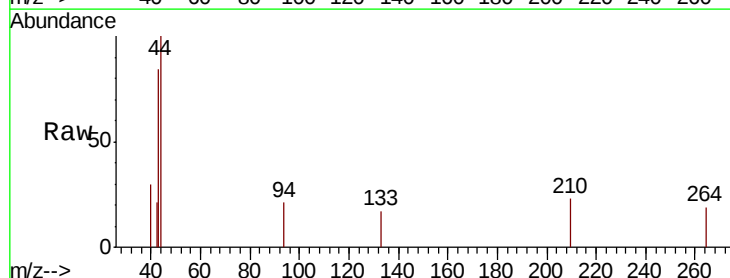
Acq: 22 Jul 2019 16:14

Tgt Ion: 43 Resp: 4454

Ion Ratio Lower Upper

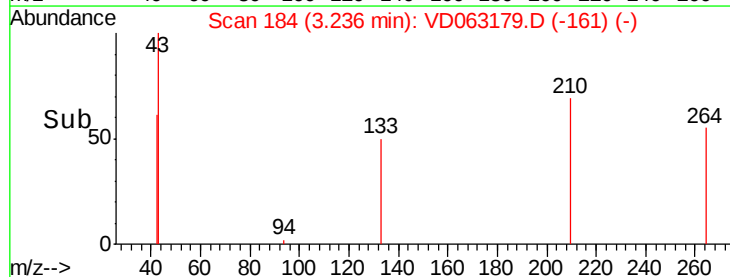
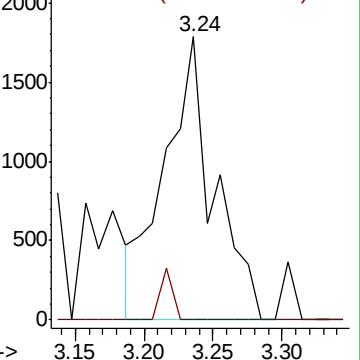
43 100

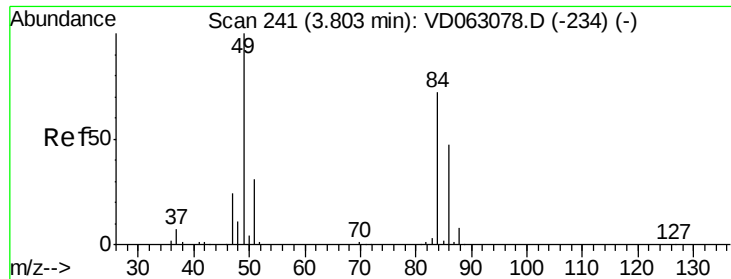
58 0.0 13.0 19.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

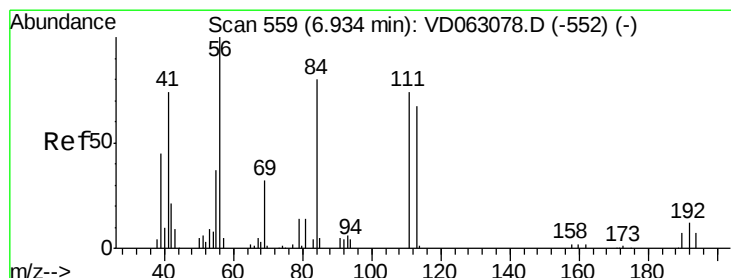
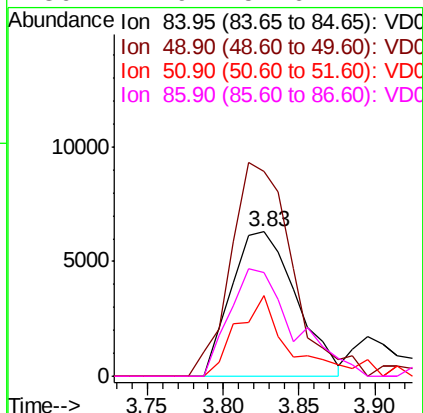
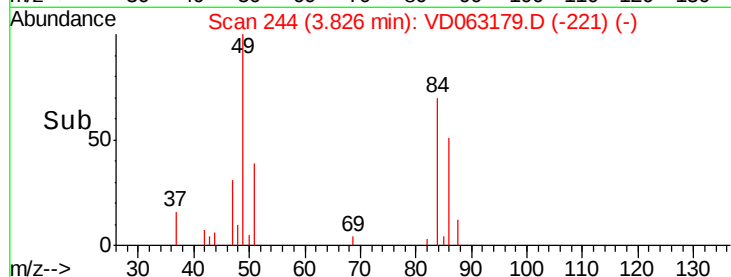
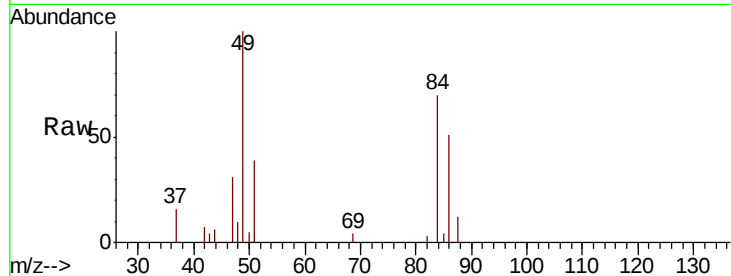




#20
Methylene Chloride
Concen: 2.112 ug/l
RT: 3.83 min Scan# 244
Delta R.T. 0.02 min
Lab File: VD063179.D
Acq: 22 Jul 2019 16:14

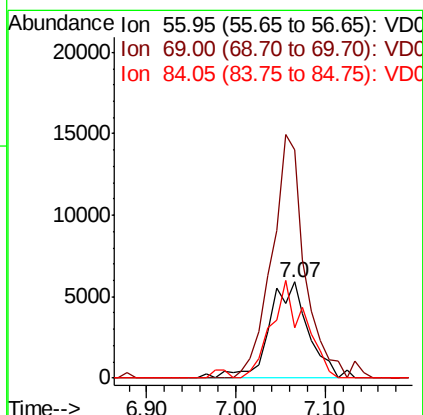
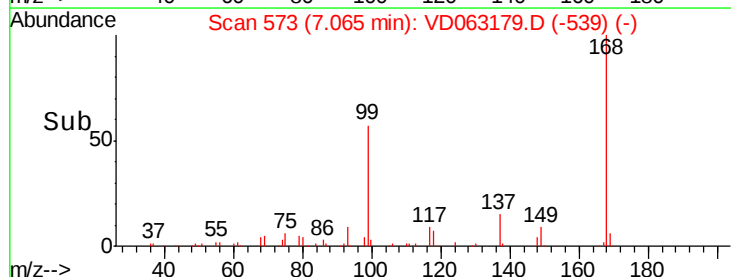
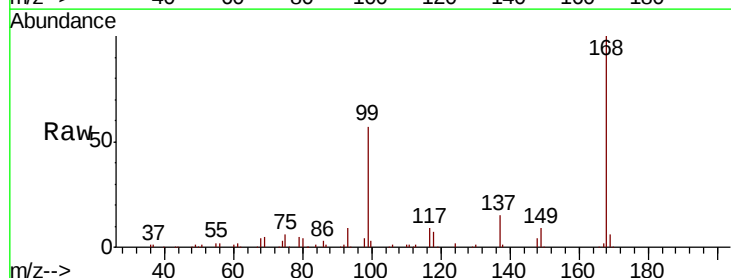
Instrument :
MSVOA_D
ClientSampleId :
GIS-BUILDING-1

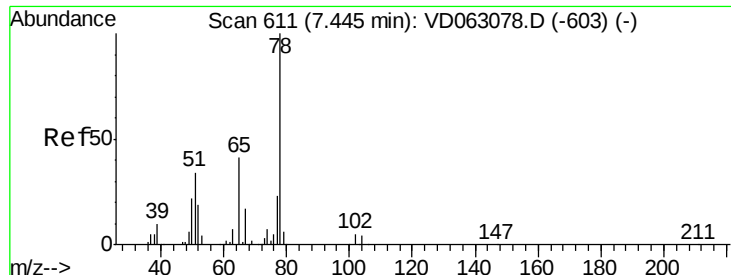
Tot Ion: 84 Resp: 18866
Ion Ratio Lower Upper
84 100
49 142.0 110.5 165.7
51 56.1 34.6 51.8#
86 71.9 51.6 77.4



#31
Cyclohexane
Concen: 1.919 ug/l
RT: 7.07 min Scan# 573
Delta R.T. 0.13 min
Lab File: VD063179.D
Acq: 22 Jul 2019 16:14

Tgt Ion: 56 Resp: 17882
Ion Ratio Lower Upper
56 100
69 236.8 25.3 37.9#
84 51.8 64.2 96.4#

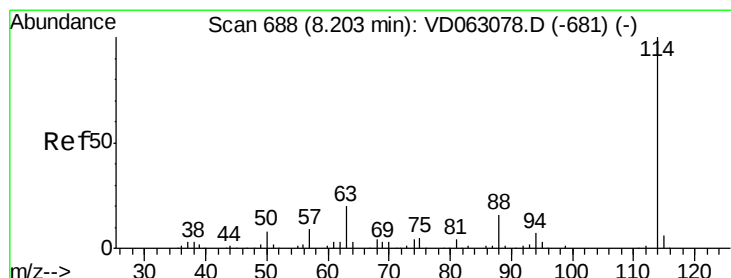
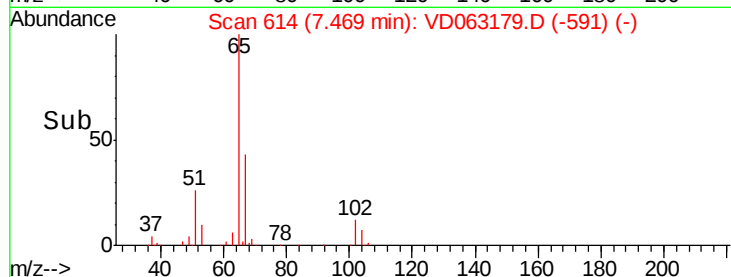
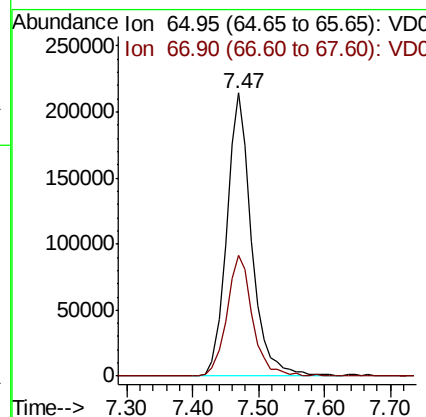
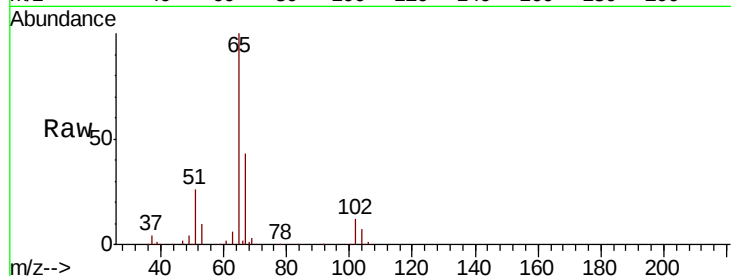




#33
 1,2-Dichloroethane-d4
 Concen: 57.642 ug/l
 RT: 7.47 min Scan# 614
 Delta R.T. 0.02 min
 Lab File: VD063179.D
 Acq: 22 Jul 2019 16:14

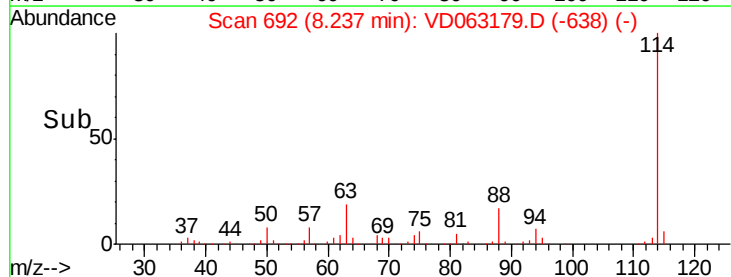
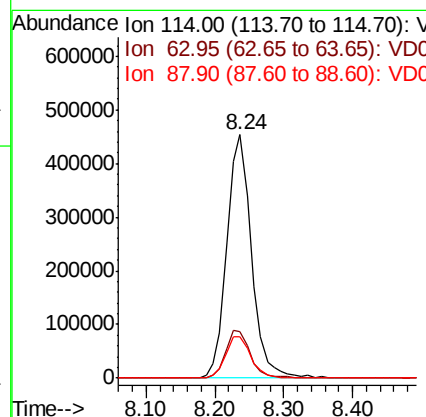
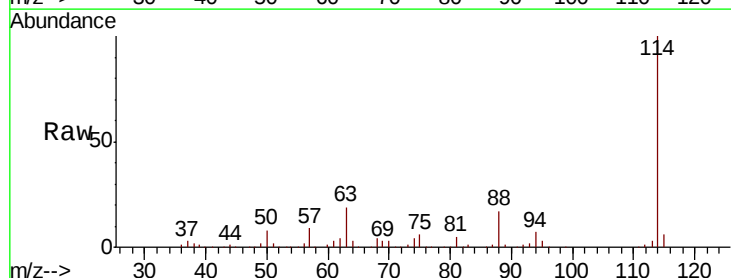
Instrument :
 MSVOA_D
 ClientSampleId :
 GIS-BUILDING-1

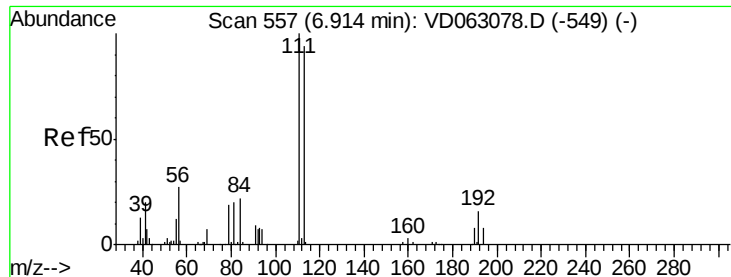
Tot Ion: 65 Resp: 564167
 Ion Ratio Lower Upper
 65 100
 67 42.8 0.0 86.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.24 min Scan# 692
 Delta R.T. 0.03 min
 Lab File: VD063179.D
 Acq: 22 Jul 2019 16:14

Tgt Ion: 114 Resp: 1124293
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 40.6
 88 17.1 0.0 32.6

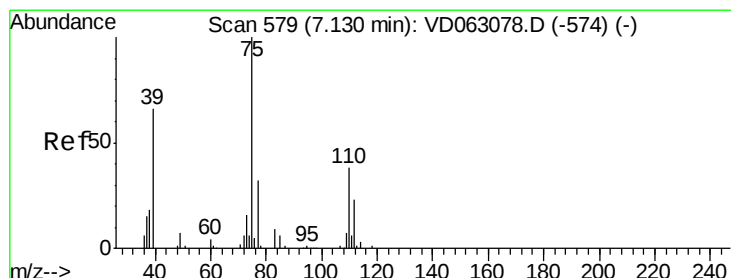
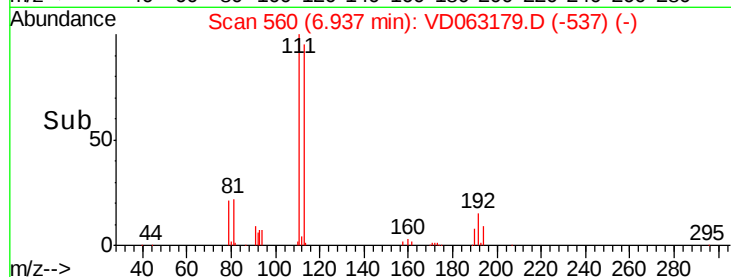
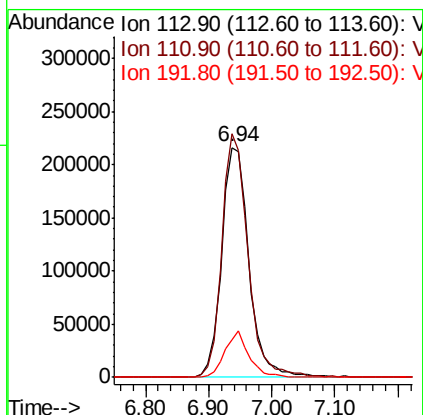
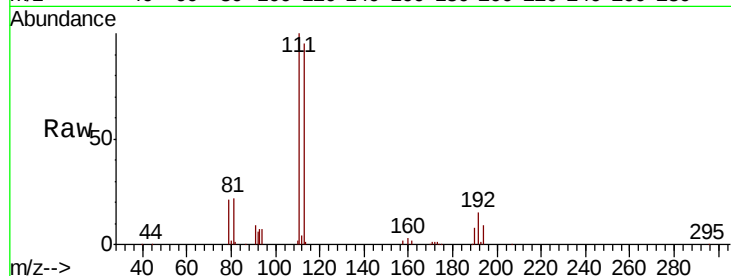




#35
 Dibromofluoromethane
 Concen: 57.875 ug/l
 RT: 6.94 min Scan# 560
 Delta R.T. 0.02 min
 Lab File: VD063179.D
 Acq: 22 Jul 2019 16:14

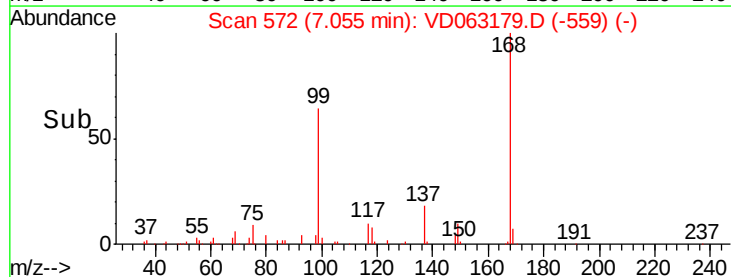
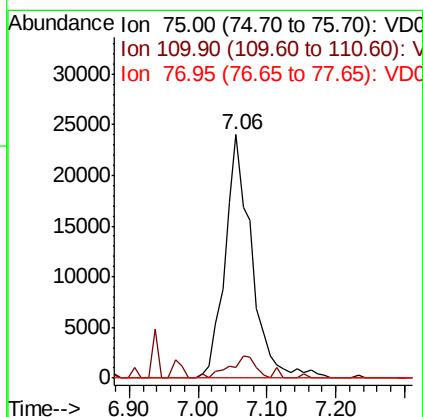
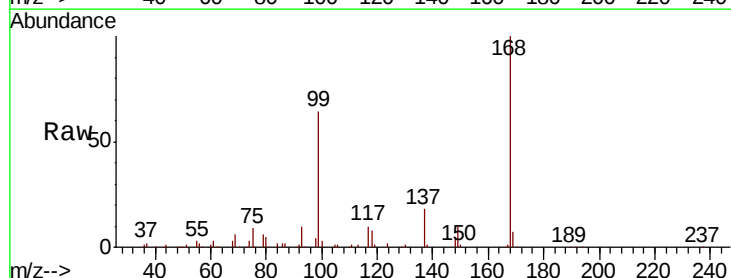
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 GIS-BUILDING-1

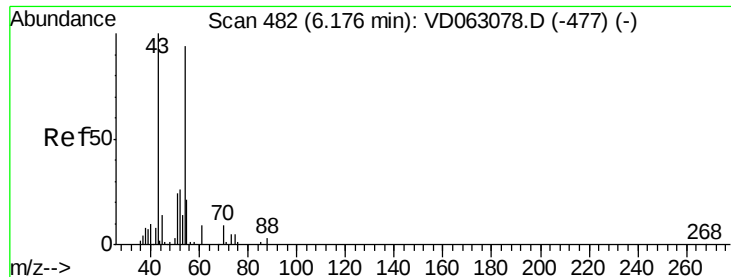
Tot Ion	Ratio	Lower	Upper
113	100		
111	105.8	84.8	127.2
192	16.3	13.4	20.0



#36
 1,1-Dichloropropene
 Concen: 5.085 ug/l
 RT: 7.06 min Scan# 572
 Delta R.T. -0.08 min
 Lab File: VD063179.D
 Acq: 22 Jul 2019 16:14

Tgt Ion	Ratio	Lower	Upper
75	100		
110	4.6	18.9	56.5#
77	0.0	25.2	37.8#

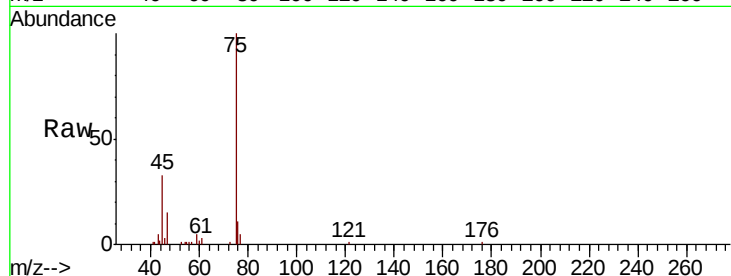




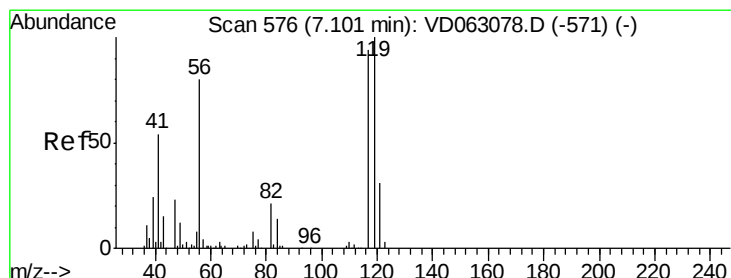
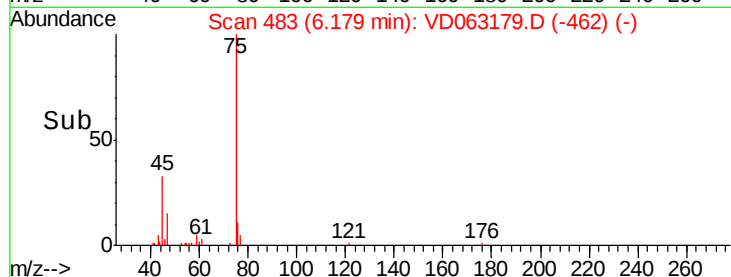
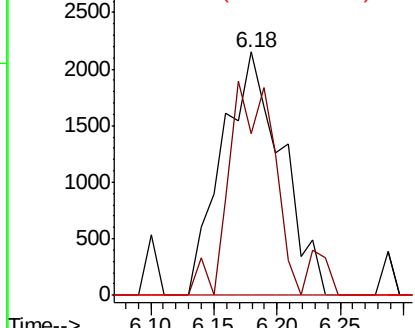
#37
Ethyl Acetate
Concen: 1.300 ug/l
RT: 6.18 min Scan# 483
Delta R.T. 0.00 min
Lab File: VD063179.D
Acq: 22 Jul 2019 16:14

Instrument :
MSVOA_D
ClientSampleId :
GIS-BUILDING-1

Tot Ion: 43 Resp: 7034
Ion Ratio Lower Upper
43 100
61 66.3 10.6 16.0#
70 0.0 6.6 9.8#

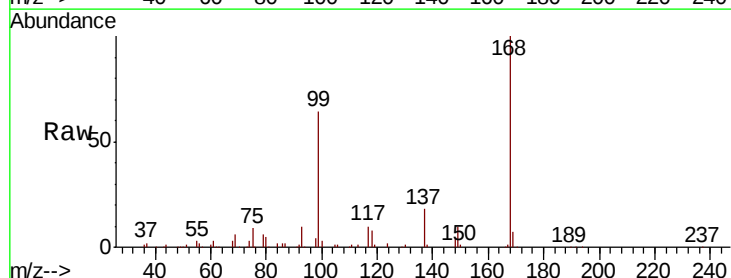


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

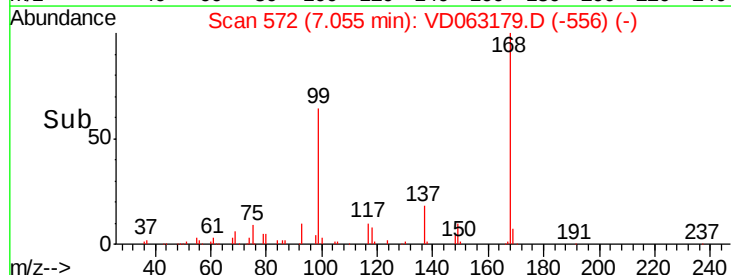
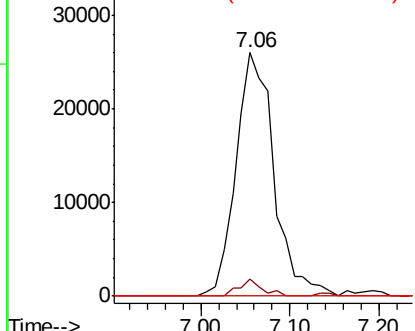


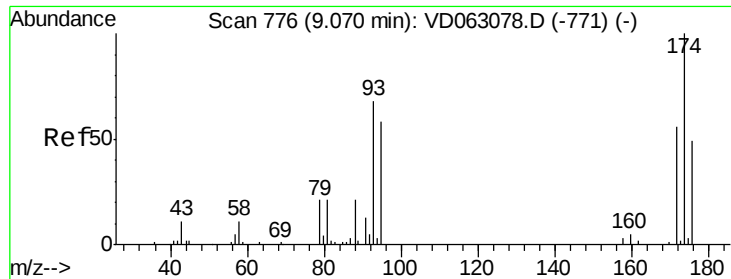
#38
Carbon Tetrachloride
Concen: 3.998 ug/l
RT: 7.06 min Scan# 572
Delta R.T. -0.05 min
Lab File: VD063179.D
Acq: 22 Jul 2019 16:14

Tgt Ion: 117 Resp: 76811
Ion Ratio Lower Upper
117 100
119 6.8 80.0 120.0#
121 0.0 25.0 37.4#



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

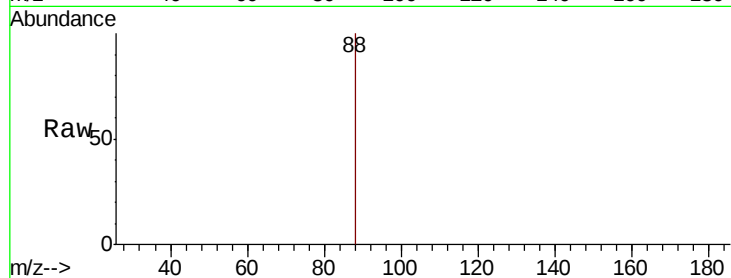




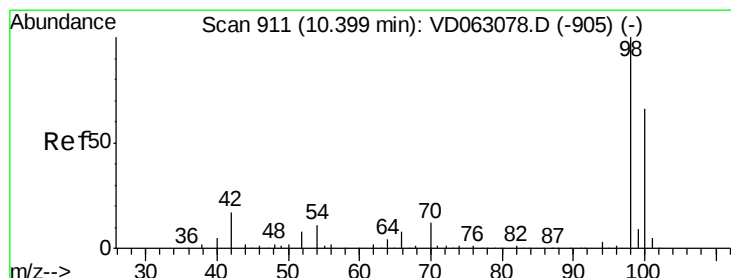
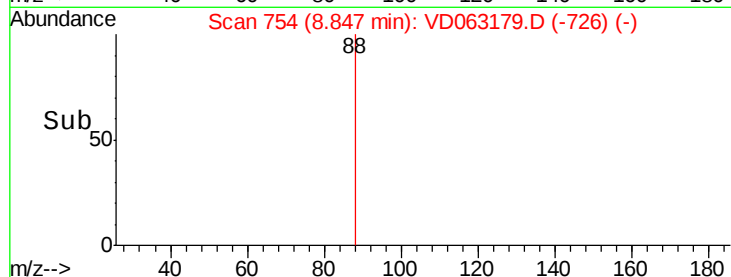
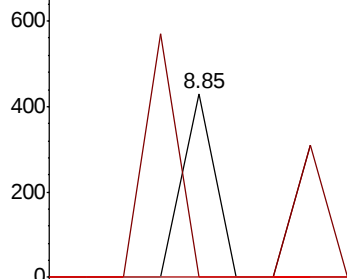
#49
1,4-Dioxane
Concen: 5.805 ug/l
RT: 8.85 min Scan# 754
Delta R.T. -0.22 min
Lab File: VD063179.D
Acq: 22 Jul 2019 16:14

Instrument :
MSVOA_D
ClientSampleId :
GIS-BUILDING-1

Tot Ion: 88 Resp: 255
Ion Ratio Lower Upper
88 100
43 0.0 40.2 60.4#
58 0.0 41.6 62.4#

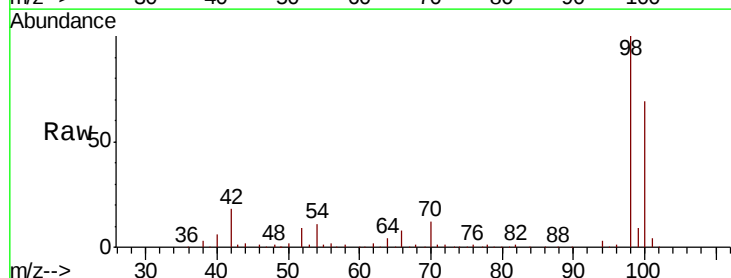


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

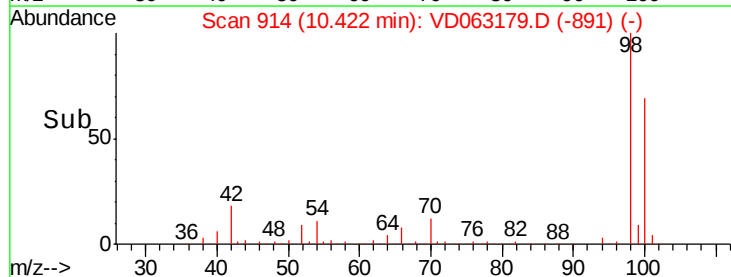
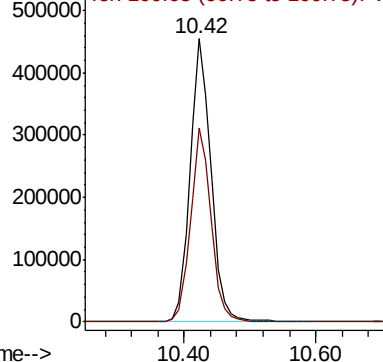


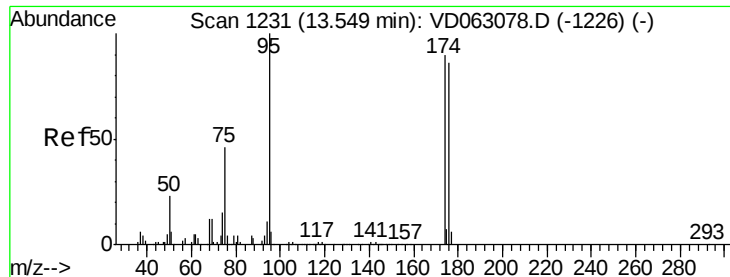
#50
Toluene-d8
Concen: 41.656 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.02 min
Lab File: VD063179.D
Acq: 22 Jul 2019 16:14

Tgt Ion: 98 Resp: 1001985
Ion Ratio Lower Upper
98 100
100 68.7 53.5 80.3



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

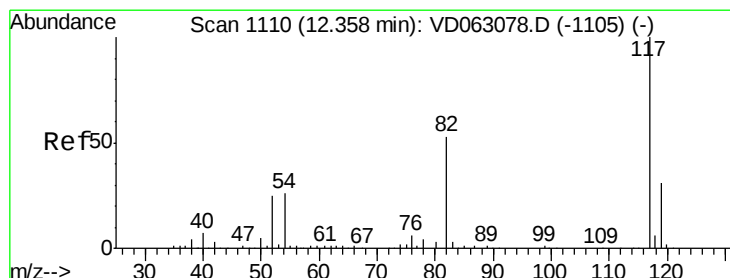
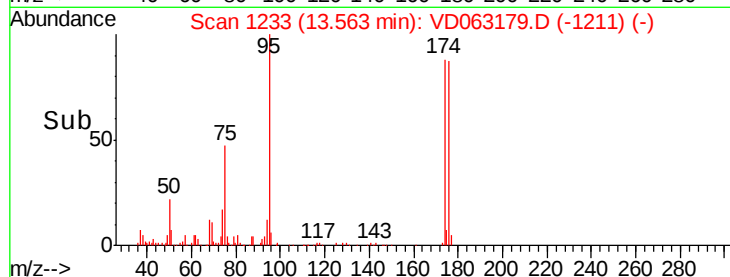
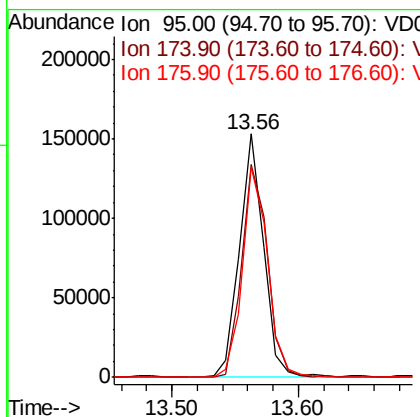
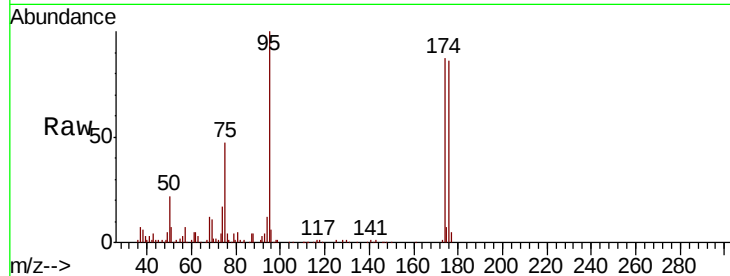




#62
4-Bromofluorobenzene
Concen: 18.193 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.01 min
Lab File: VD063179.D
Acq: 22 Jul 2019 16:14

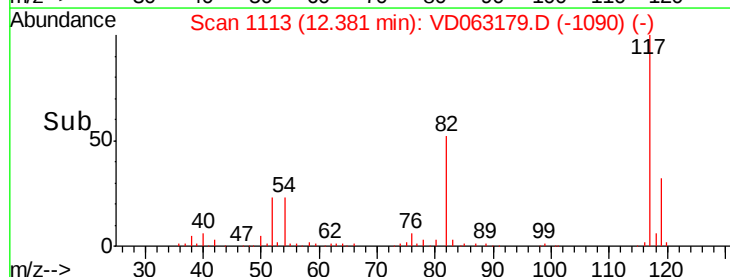
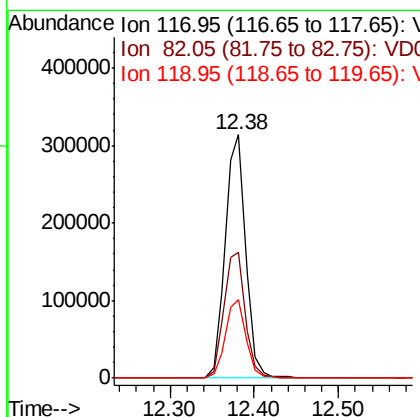
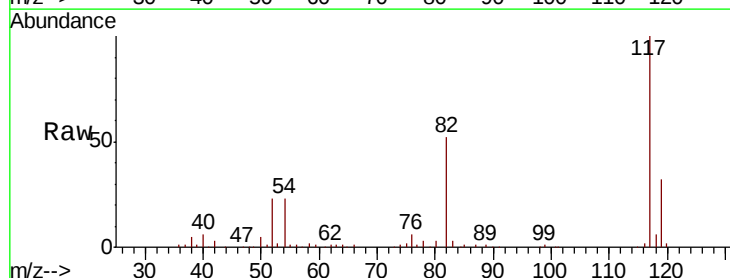
Instrument :
MSVOA_D
ClientSampleId :
GIS-BUILDING-1

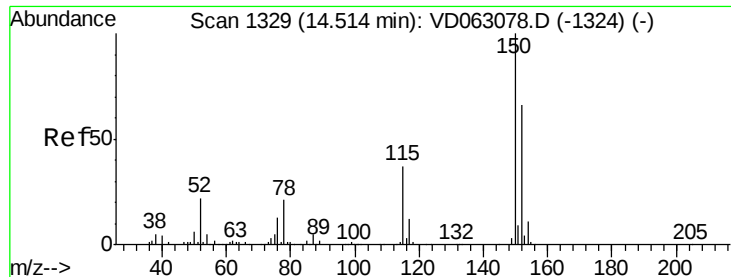
Tot Ion: 95 Resp: 202456
Ion Ratio Lower Upper
95 100
174 87.2 0.0 180.6
176 86.4 0.0 172.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VD063179.D
Acq: 22 Jul 2019 16:14

Tgt Ion: 117 Resp: 531145
Ion Ratio Lower Upper
117 100
82 51.6 42.3 63.5
119 32.2 25.2 37.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.53 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD063179.D

Acq: 22 Jul 2019 16:14

Instrument :

MSVOA_D

ClientSampleId :

GIS-BUILDING-1

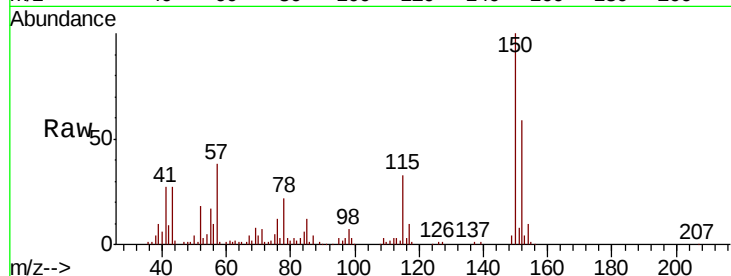
Tot Ion:152 Resp: 83145

Ion Ratio Lower Upper

152 100

115 55.2 28.9 86.8

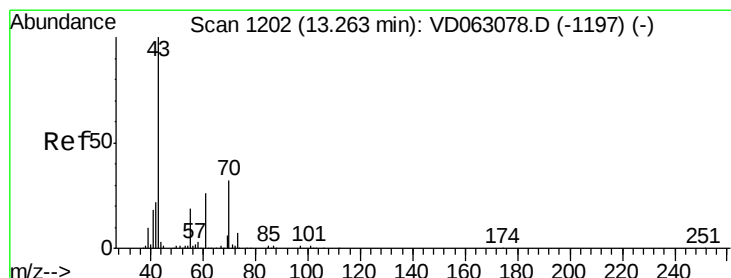
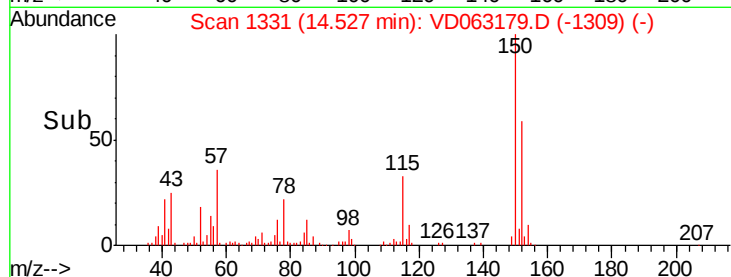
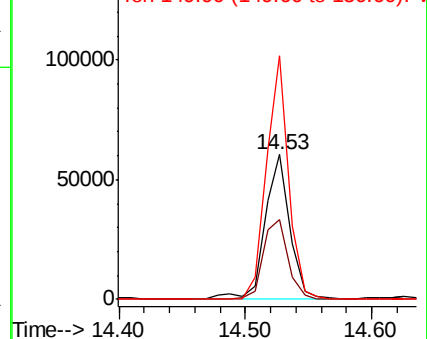
150 168.3 0.0 313.8



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



#74

N-amil acetate

Concen: 2.626 ug/l

RT: 13.23 min Scan# 1199

Delta R.T. -0.04 min

Lab File: VD063179.D

Acq: 22 Jul 2019 16:14

Tgt Ion: 43 Resp: 4703

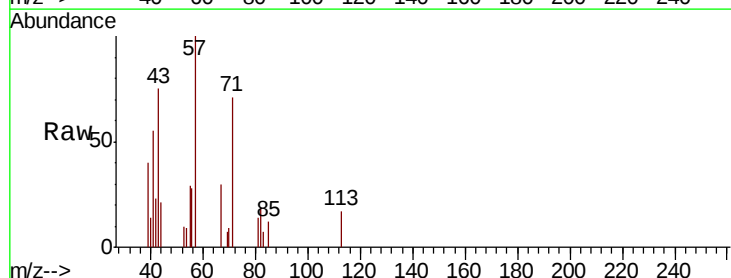
Ion Ratio Lower Upper

43 100

70 12.4 25.5 38.3#

55 38.3 15.4 23.0#

61 0.0 20.6 31.0#

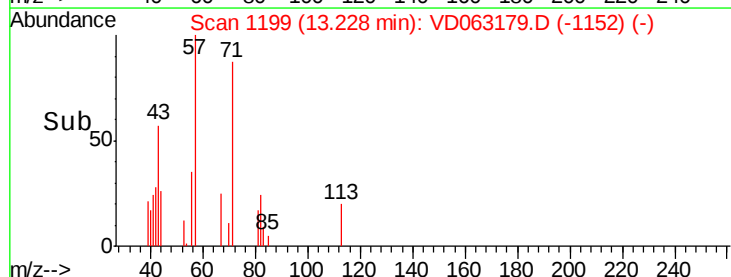
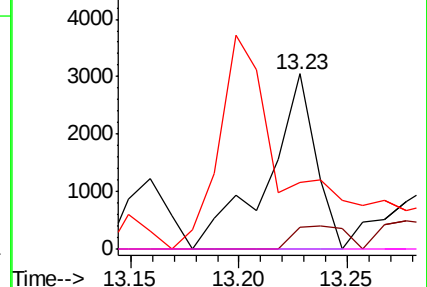


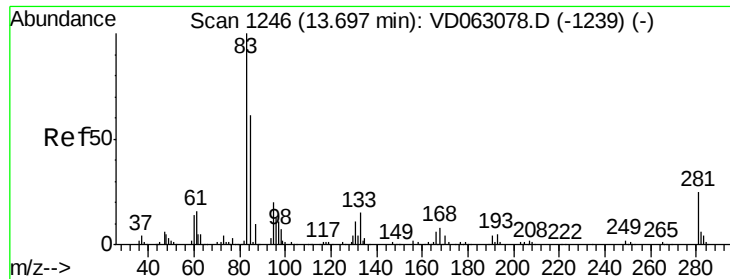
Abundance Ion 42.95 (42.65 to 43.65): VDC

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





#75

1,1,2,2-Tetrachloroethane

Concen: 1.684 ug/l

RT: 13.72 min Scan# 1249

Delta R.T. 0.02 min

Lab File: VD063179.D

Acq: 22 Jul 2019 16:14

Instrument :

MSVOA_D

ClientSampleId :

GIS-BUILDING-1

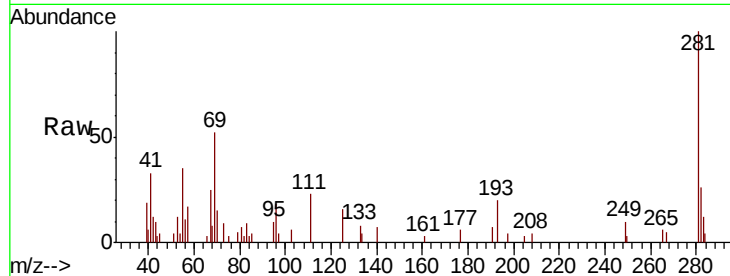
Tot Ion: 83 Resp: 1967

Ion Ratio Lower Upper

83 100

131 0.0 5.5 16.7#

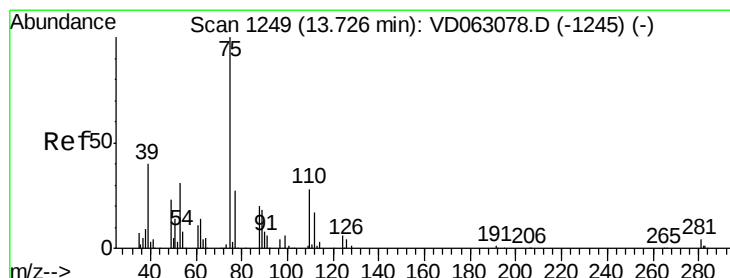
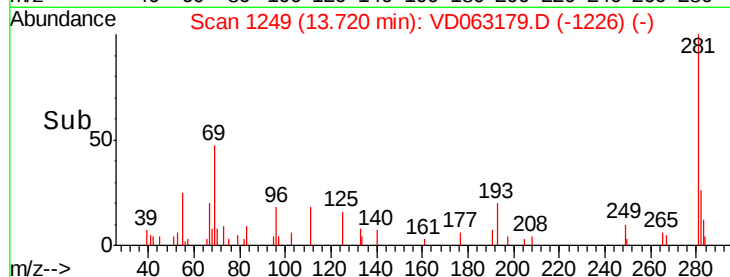
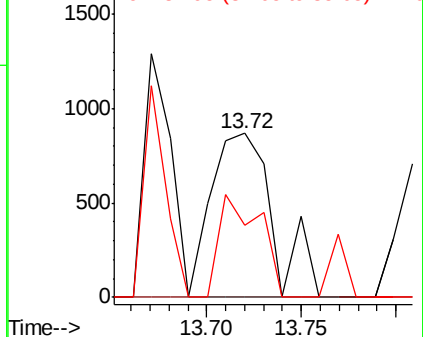
85 43.8 30.7 92.1



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 73.851 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.16 min

Lab File: VD063179.D

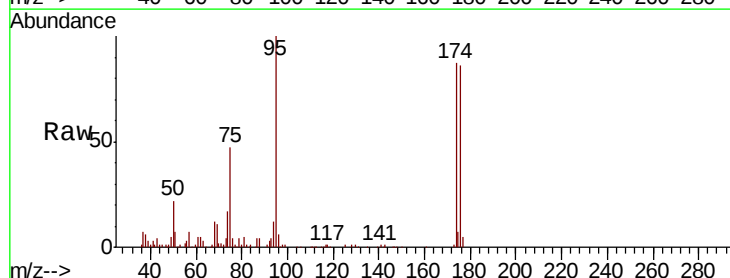
Acq: 22 Jul 2019 16:14

Tgt Ion: 75 Resp: 94456

Ion Ratio Lower Upper

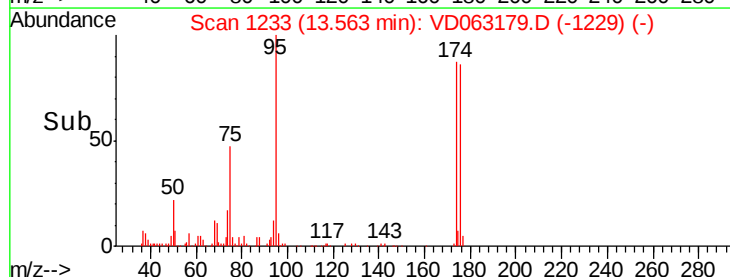
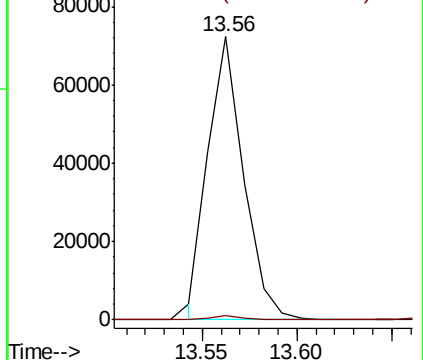
75 100

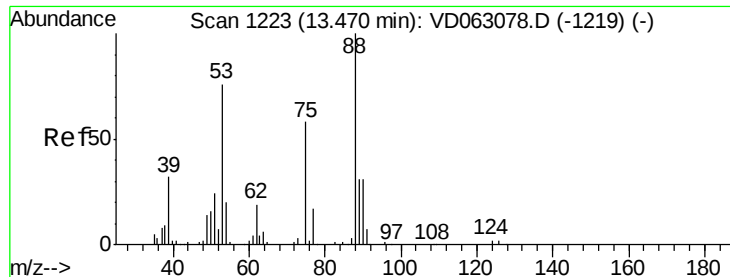
77 1.4 16.3 48.8#



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: 287.604 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD063179.D

Acq: 22 Jul 2019 16:14

Instrument :

MSVOA_D

ClientSampleId :

GIS-BUILDING-1

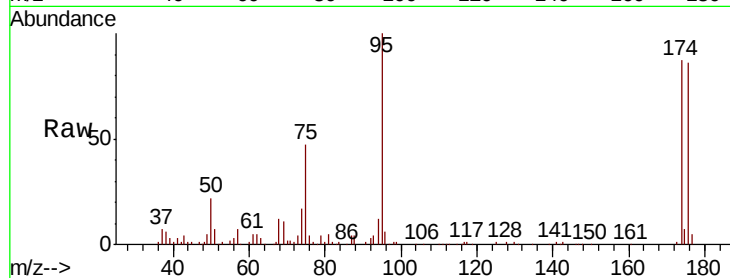
Tot Ion: 75 Resp: 96868

Ion Ratio Lower Upper

75 100

53 1.1 104.4 156.6#

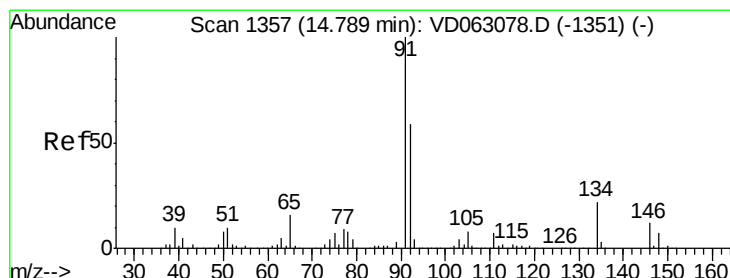
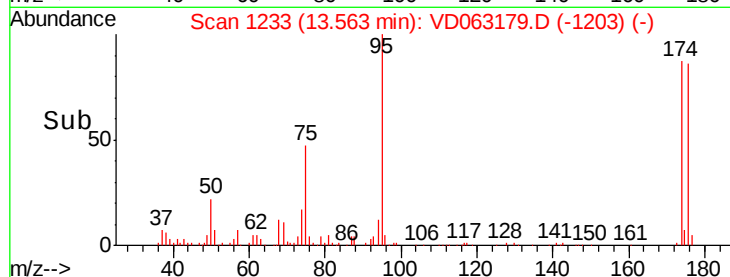
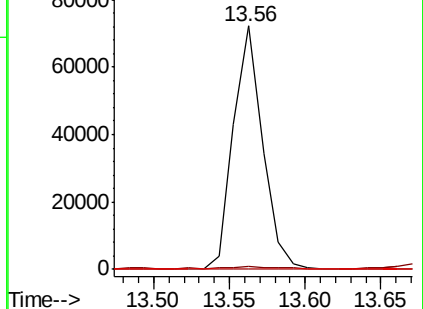
89 0.0 43.1 64.7#



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



#89

n-Butylbenzene

Concen: 1.924 ug/l

RT: 14.80 min Scan# 1359

Delta R.T. 0.01 min

Lab File: VD063179.D

Acq: 22 Jul 2019 16:14

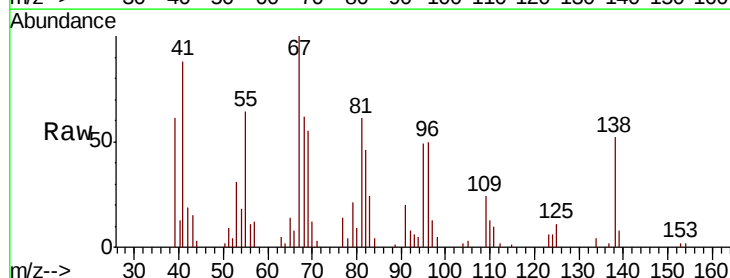
Tgt Ion: 91 Resp: 11123

Ion Ratio Lower Upper

91 100

92 40.8 29.4 88.3

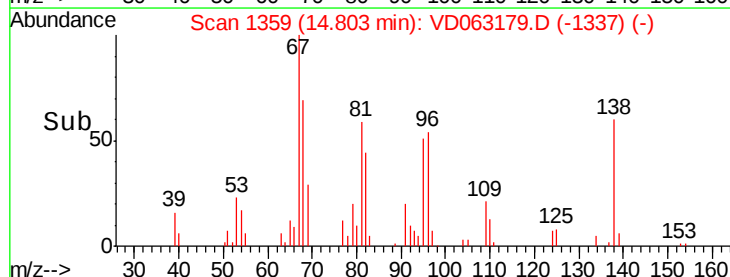
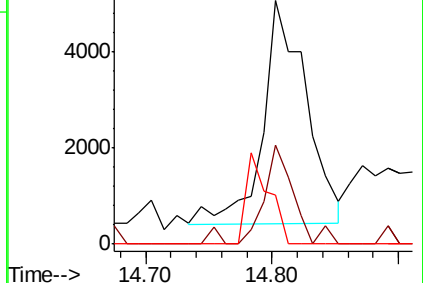
134 20.0 11.3 33.8

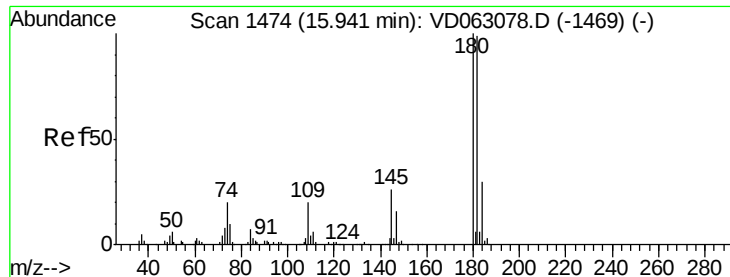


Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.10 (133.80 to 134.80): V

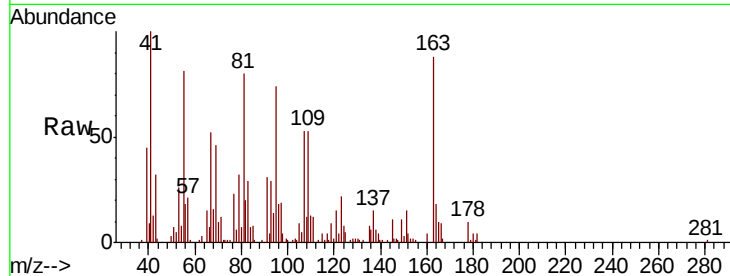




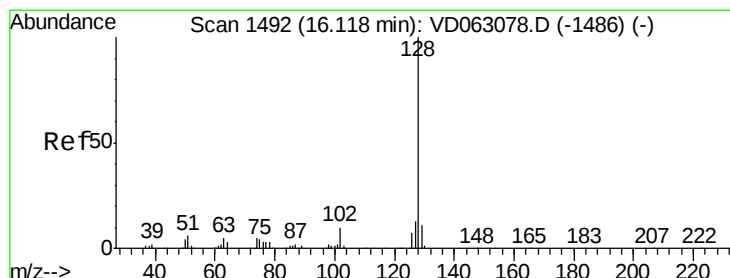
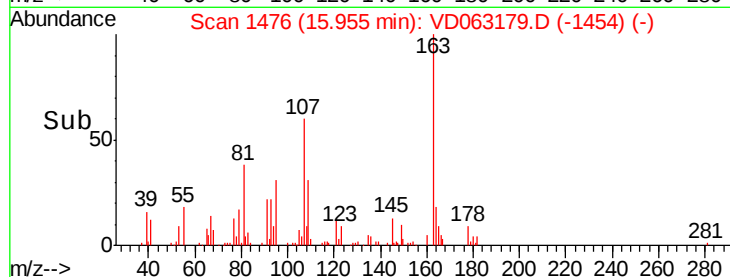
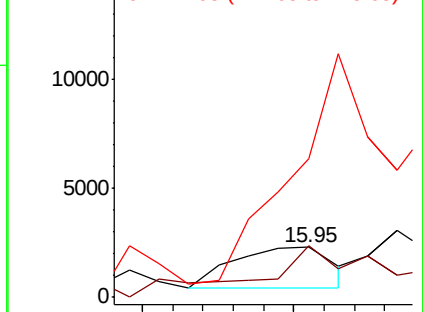
#93
 1,2,4-Trichlorobenzene
 Concen: 1.943 ug/l
 RT: 15.95 min Scan# 1476
 Delta R.T. 0.01 min
 Lab File: VD063179.D
 Acq: 22 Jul 2019 16:14

Instrument :
 MSVOA_D
 ClientSampleId :
 GIS-BUILDING-1

Tot Ion:180 Resp: 4228
 Ion Ratio Lower Upper
 180 100
 182 103.4 49.5 148.3
 145 275.7 12.8 38.4#

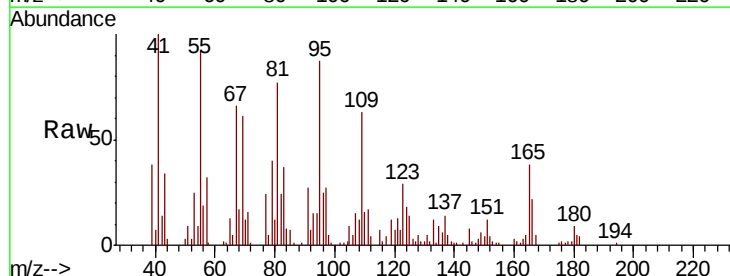


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

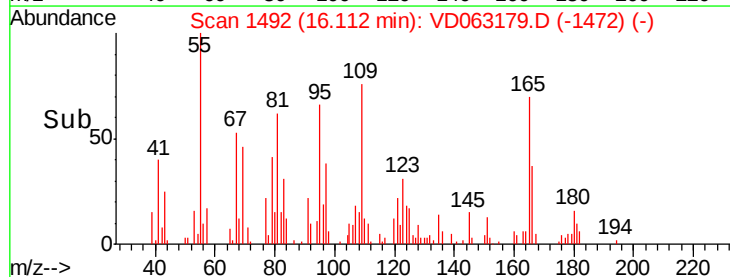
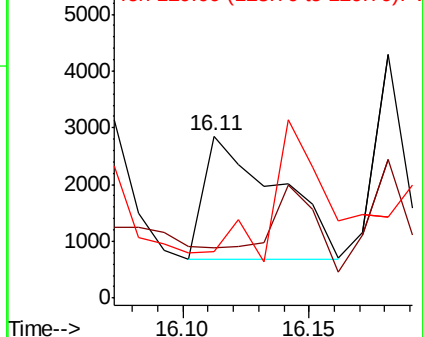


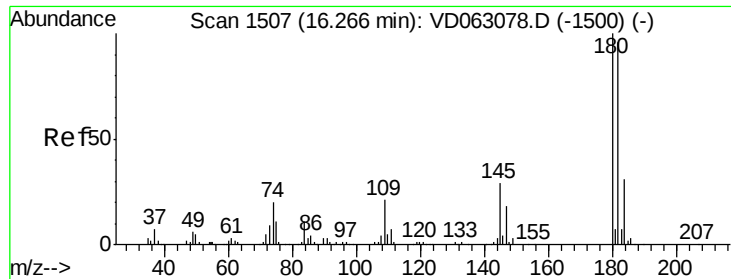
#95
 Naphthalene
 Concen: 1.387 ug/l
 RT: 16.11 min Scan# 1492
 Delta R.T. -0.01 min
 Lab File: VD063179.D
 Acq: 22 Jul 2019 16:14

Tgt Ion:128 Resp: 4414
 Ion Ratio Lower Upper
 128 100
 127 31.1 10.7 16.1#
 129 28.7 8.7 13.1#



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

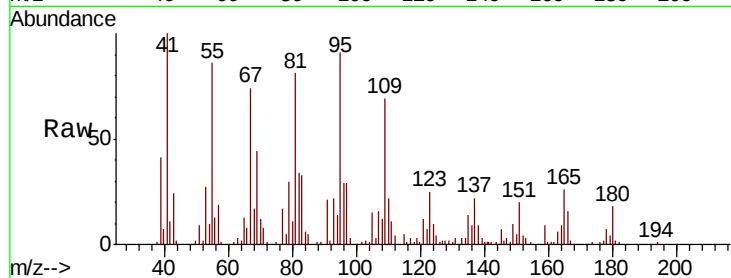




#96
 1,2,3-Trichlorobenzene
 Concen: 5.343 ug/l
 RT: 16.26 min Scan# 1507
 Delta R.T. -0.01 min
 Lab File: VD063179.D
 Acq: 22 Jul 2019 16:14

Instrument :
 MSVOA_D
 ClientSampleId :
 GIS-BUILDING-1

Tot Ion	Ratio	Lower	Upper
180	100		
182	6.6	47.9	143.6#
145	38.7	14.4	43.4



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

