

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072219\
 Data File : VD063181.D
 Acq On : 22 Jul 2019 17:09
 Operator : VA/AP
 Sample : K3916-03
 Misc : 5.05µl/5ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 GIS-BUILDING-3

Quant Time: Jul 23 07:50:32 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	7.05	168	1052534	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.23	114	1483893	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	1299183	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.53	152	607659	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	739902	56.43	ug/l	0.02
Spiked Amount 50.000			Recovery	=	112.86%	
35) Dibromofluoromethane	6.94	113	816689	55.26	ug/l	0.02
Spiked Amount 50.000			Recovery	=	110.52%	
50) Toluene-d8	10.42	98	1838213	57.90	ug/l	0.02
Spiked Amount 50.000			Recovery	=	115.80%	
62) 4-Bromofluorobenzene	13.56	95	701421	47.76	ug/l	0.01
Spiked Amount 50.000			Recovery	=	95.52%	

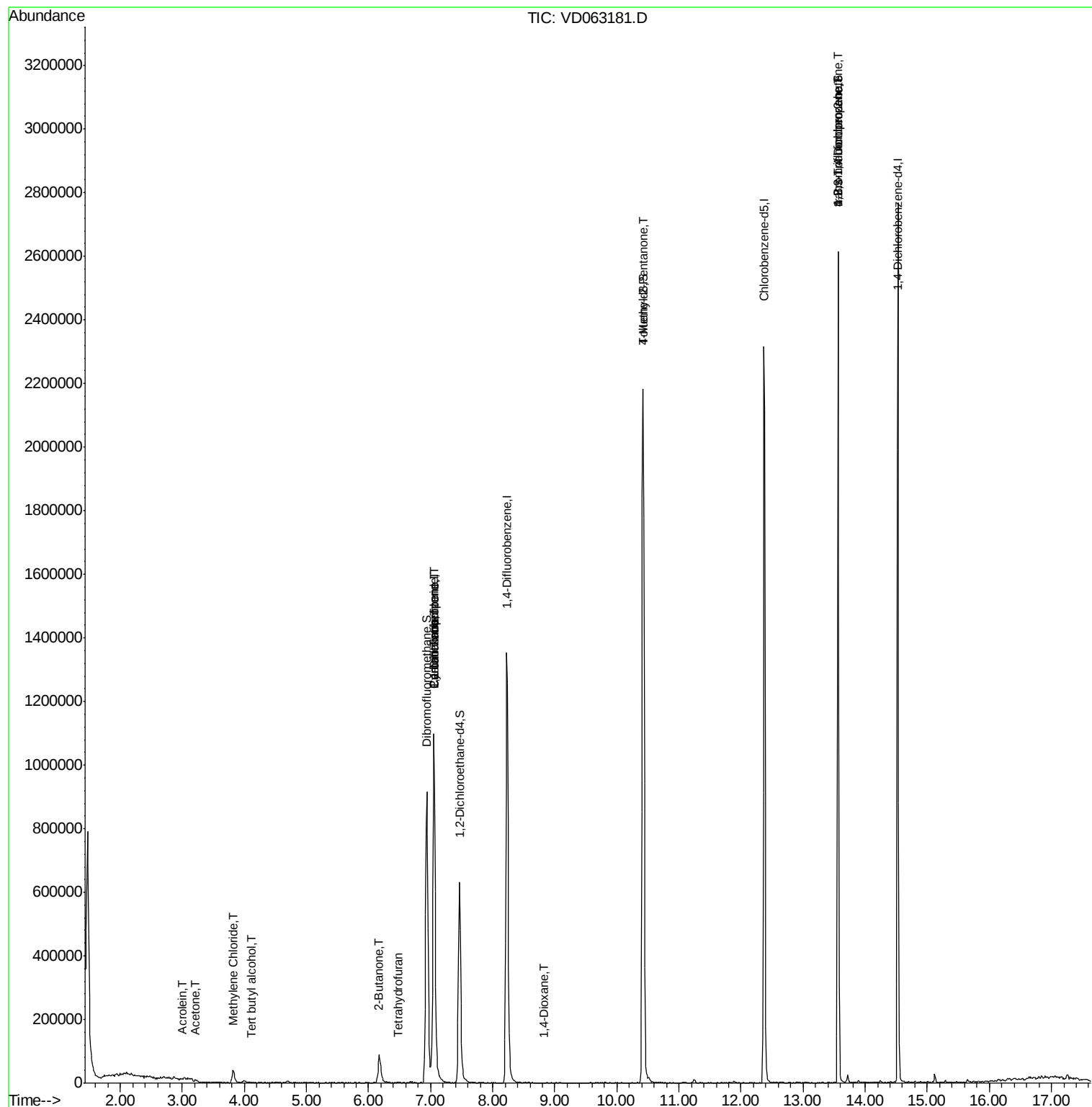
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	233	Below Cal	#	43
3) Chloromethane	1.74	50	193	Below Cal	#	48
5) Bromomethane	2.16	94	2828	Below Cal	#	13
11) Tert butyl alcohol	4.11	59	1655	2.187	ug/l #	77
13) Acrolein	3.00	56	575	2.518	ug/l #	73
16) Acetone	3.22	43	15913	5.025	ug/l #	86
18) Methyl Acetate	3.74	43	487	Below Cal	#	63
20) Methylene Chloride	3.83	84	24667	2.062	ug/l #	78
25) 2-Butanone	6.18	43	5968	1.974	ug/l #	61
29) Tetrahydrofuran	6.47	42	1438	1.049	ug/l #	45
31) Cyclohexane	7.05	56	22023	1.764	ug/l #	18
36) 1,1-Dichloropropene	7.05	75	77257	4.629	ug/l #	52
38) Carbon Tetrachloride	7.06	117	101316	3.995	ug/l #	13
49) 1,4-Dioxane	8.82	88	249	4.294	ug/l #	27
51) 4-Methyl-2-Pentanone	10.42	43	10088	1.486	ug/l #	1
76) 1,2,3-Trichloropropane	13.56	75	309141	33.072	ug/l #	44
81) trans-1,4-Dichloro-2-buten	13.56	75	318733	129.484	ug/l #	1

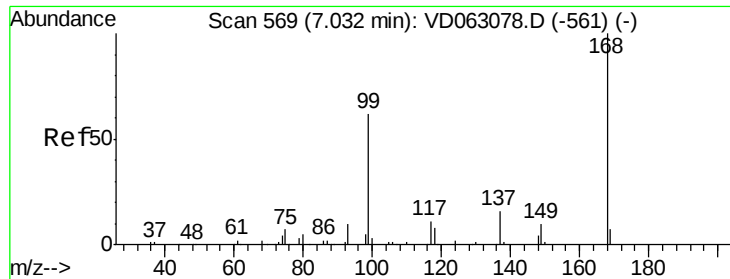
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD072219\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.02 min

Lab File: VD063181.D

Acq: 22 Jul 2019 17:09

Instrument :

MSVOA_D

ClientSampleId :

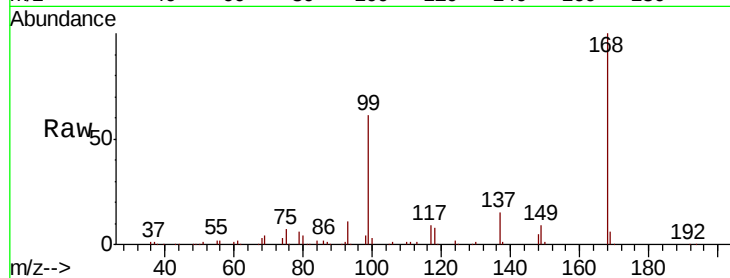
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Tot Ion:168 Resp: 1052534

Ion Ratio Lower Upper

168 100

99 61.2 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

400000

300000

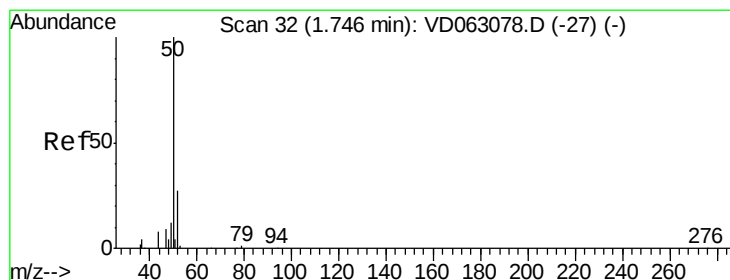
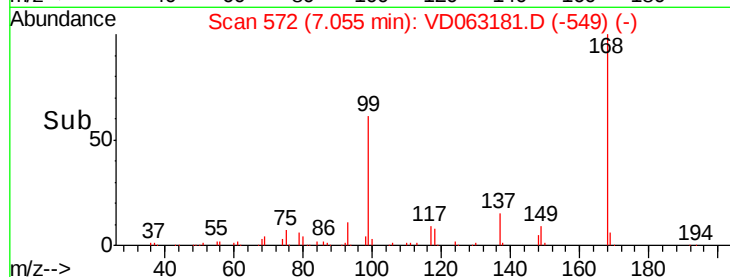
200000

100000

0

Time-->

6.90 7.00 7.10 7.20



#3

Chloromethane

Concen: Below Cal

RT: 1.74 min Scan# 32

Delta R.T. -0.01 min

Lab File: VD063181.D

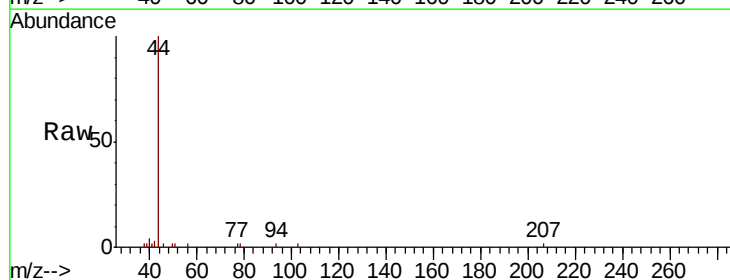
Acq: 22 Jul 2019 17:09

Tgt Ion: 50 Resp: 193

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

1.74

400

300

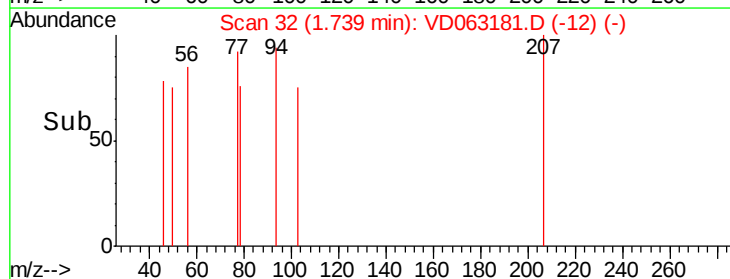
200

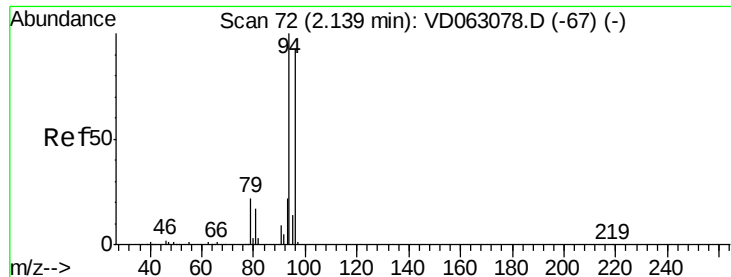
100

0

Time-->

1.72 1.74





#5

Bromomethane

Concen: Below Cal

RT: 2.16 min Scan# 75

Delta R.T. 0.02 min

Lab File: VD063181.D

Acq: 22 Jul 2019 17:09

Instrument :

MSVOA_D

ClientSampleId :

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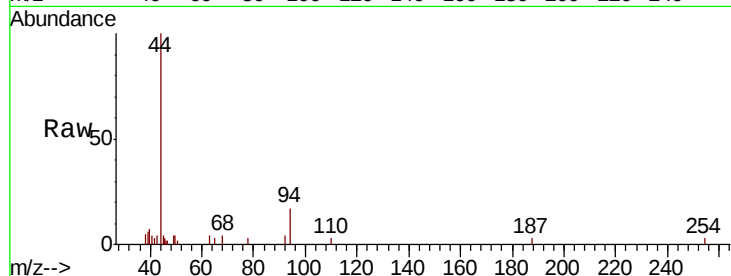
Tot Ion: 94 Resp: 2828

Ion Ratio Lower Upper

94 100

96 0.0 74.2 111.2#

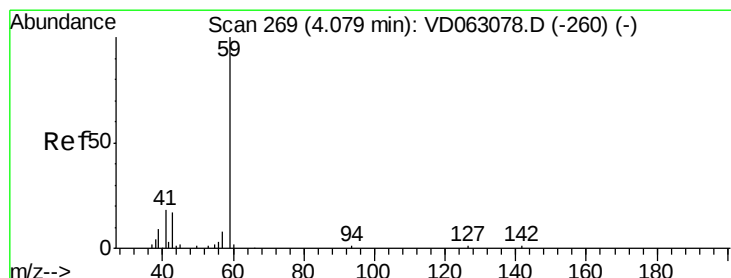
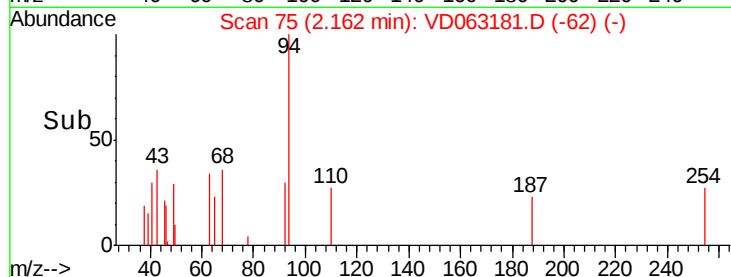
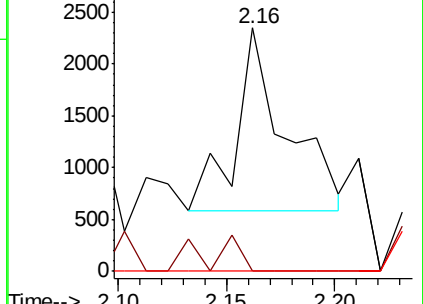
93 0.0 17.8 26.6#



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: 2.187 ug/l

RT: 4.11 min Scan# 273

Delta R.T. 0.03 min

Lab File: VD063181.D

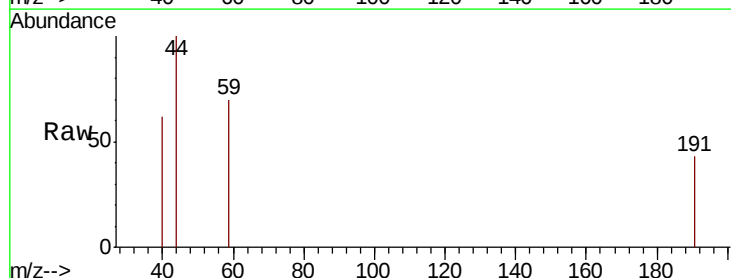
Acq: 22 Jul 2019 17:09

Tgt Ion: 59 Resp: 1655

Ion Ratio Lower Upper

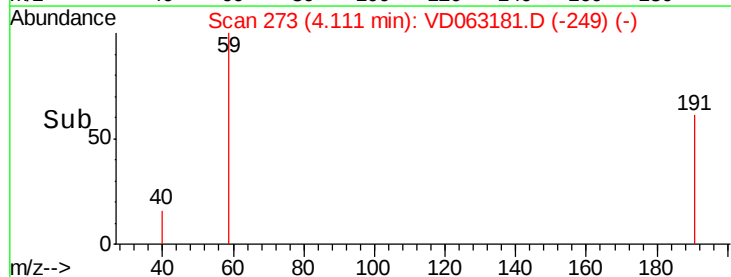
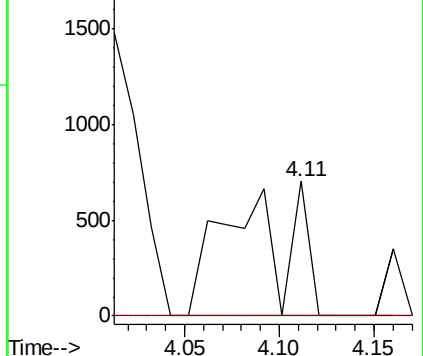
59 100

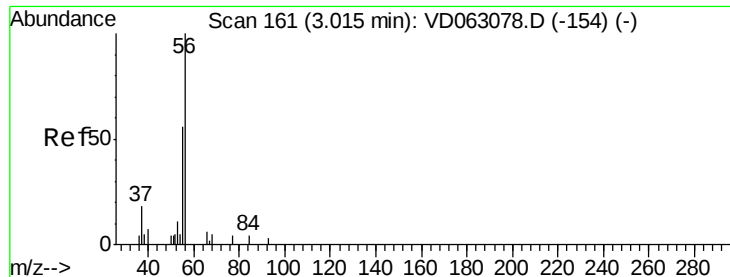
57 0.0 6.4 9.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 2.518 ug/l

RT: 3.00 min Scan# 160

Delta R.T. -0.02 min

Lab File: VD063181.D

Acq: 22 Jul 2019 17:09

Instrument :

MSVOA_D

ClientSampleId :

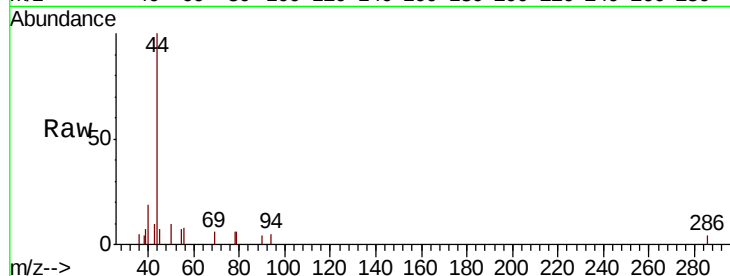
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Tot Ion: 56 Resp: 575

Ion Ratio Lower Upper

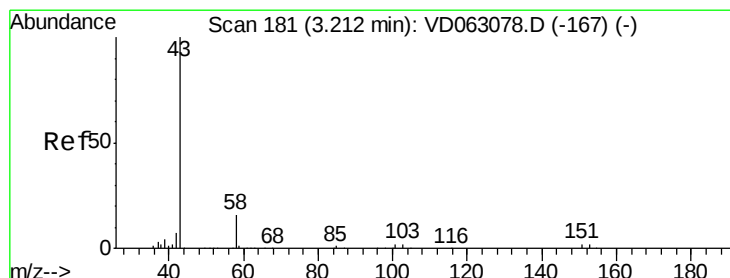
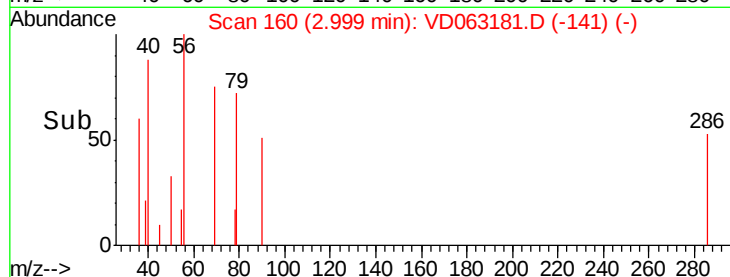
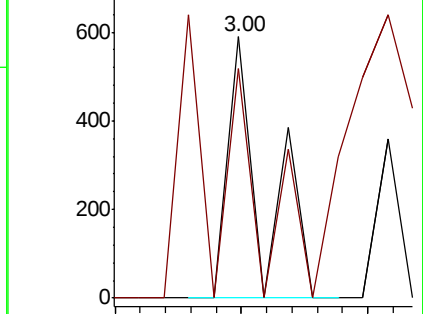
56 100

55 87.9 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: 5.025 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.00 min

Lab File: VD063181.D

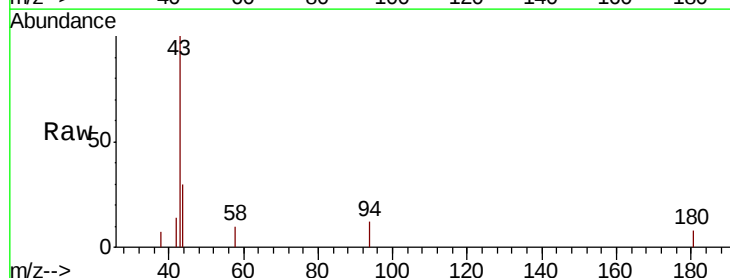
Acq: 22 Jul 2019 17:09

Tgt Ion: 43 Resp: 15913

Ion Ratio Lower Upper

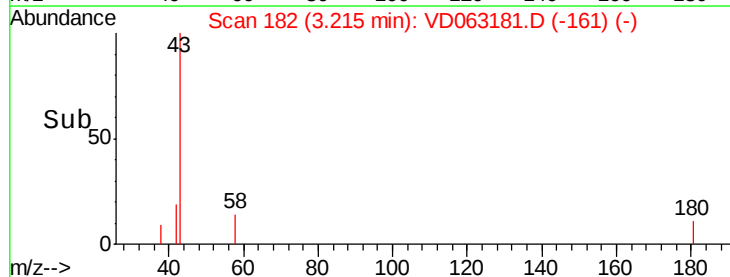
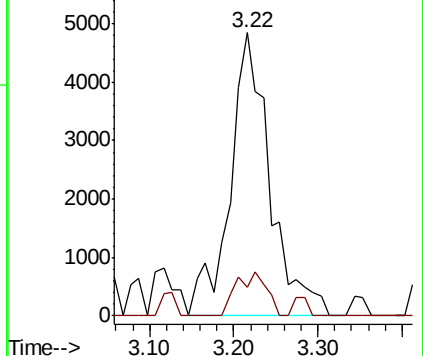
43 100

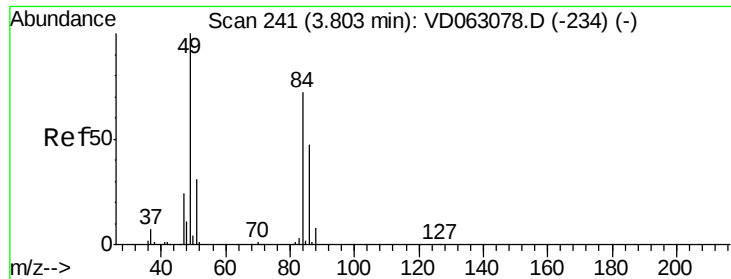
58 10.2 13.0 19.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

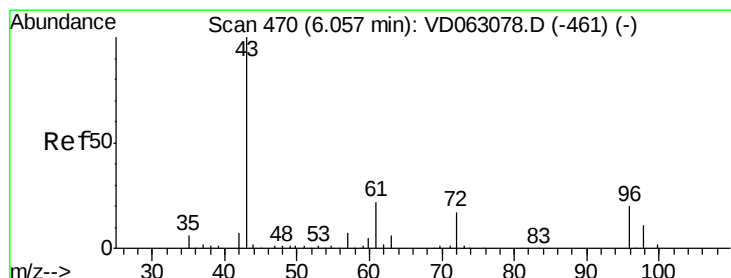
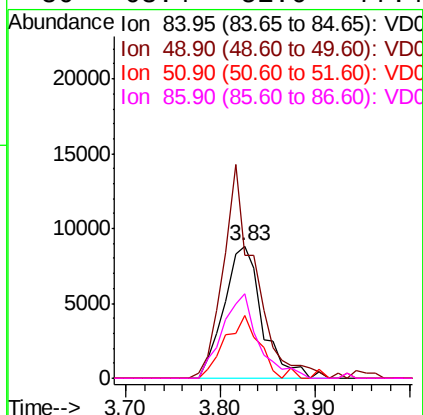
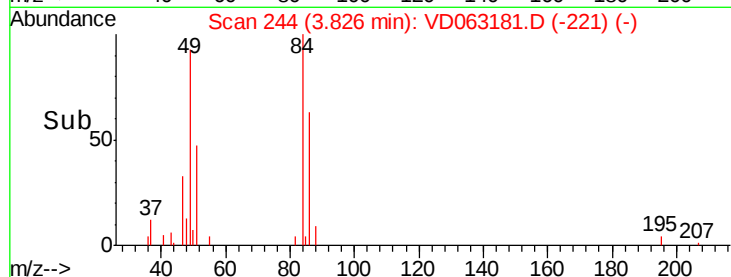
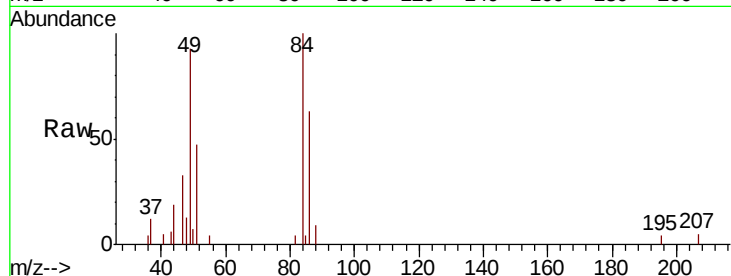




#20
Methylene Chloride
Concen: 2.062 ug/l
RT: 3.83 min Scan# 244
Delta R.T. 0.02 min
Lab File: VD063181.D
Acq: 22 Jul 2019 17:09

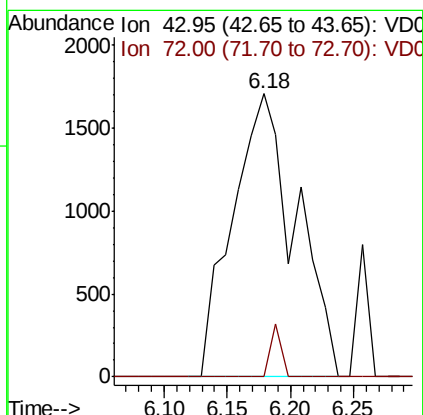
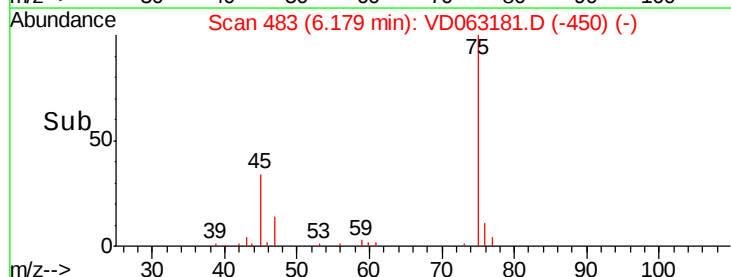
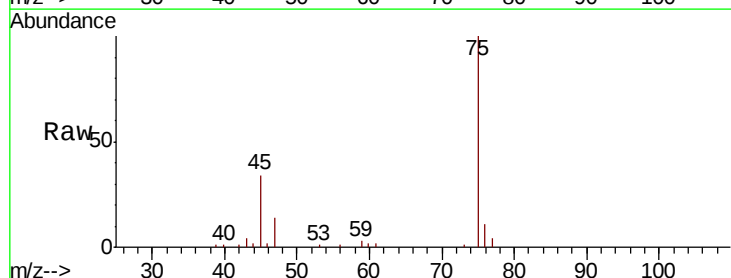
Instrument :
MSVOA_D
ClientSampleId :
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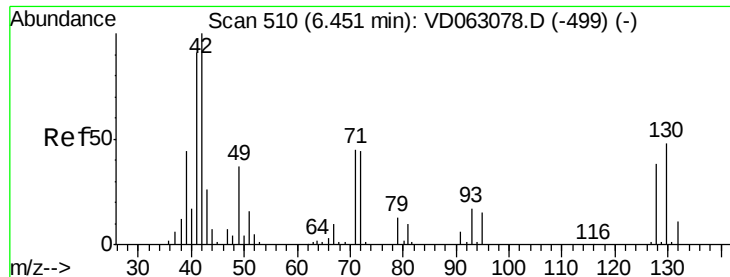
Tot Ion: 84 Resp: 24667
Ion Ratio Lower Upper
84 100
49 92.8 110.5 165.7#
51 47.0 34.6 51.8
86 63.4 51.6 77.4



#25
2-Butanone
Concen: 1.974 ug/l
RT: 6.18 min Scan# 483
Delta R.T. 0.12 min
Lab File: VD063181.D
Acq: 22 Jul 2019 17:09

Tgt Ion: 43 Resp: 5968
Ion Ratio Lower Upper
43 100
72 0.0 13.4 20.0#





#29

Tetrahydrofuran

Concen: 1.049 ug/l

RT: 6.47 min Scan# 513

Delta R.T. 0.02 min

Lab File: VD063181.D

Acq: 22 Jul 2019 17:09

Instrument :

MSVOA_D

ClientSampleID :

GIS-BUILDING-3

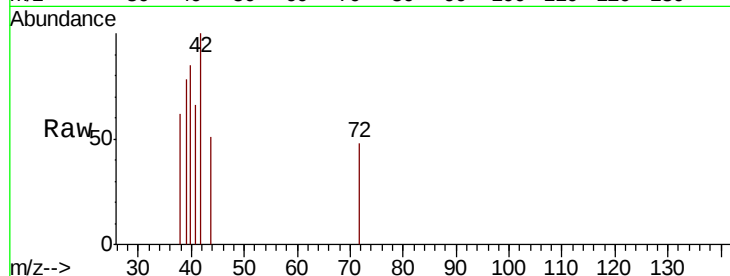
Tot Ion: 42 Resp: 1438

Ion Ratio Lower Upper

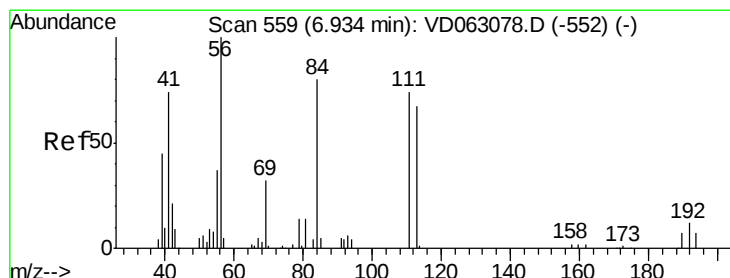
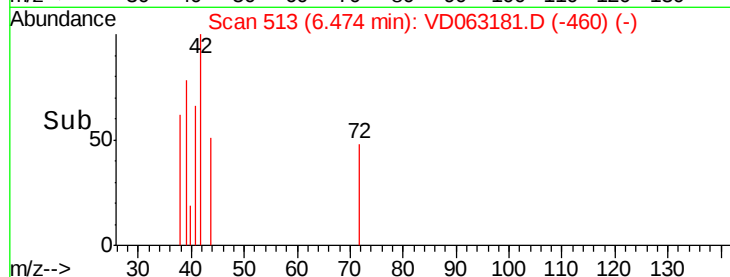
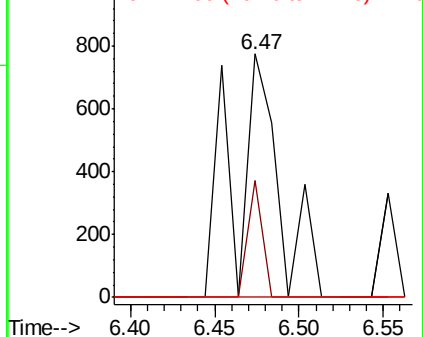
42 100

72 15.2 33.7 50.5#

71 0.0 34.2 51.2#



Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC



#31

Cyclohexane

Concen: 1.764 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.12 min

Lab File: VD063181.D

Acq: 22 Jul 2019 17:09

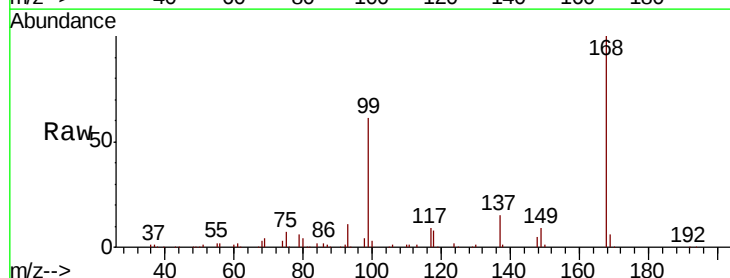
Tgt Ion: 56 Resp: 22023

Ion Ratio Lower Upper

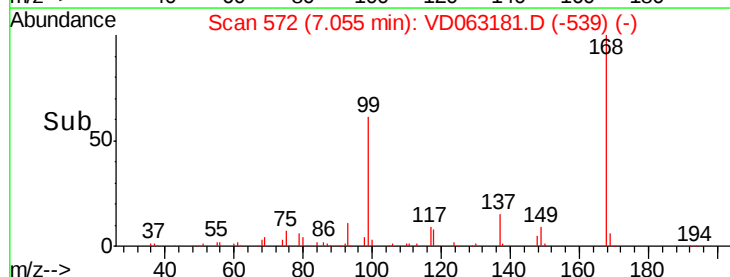
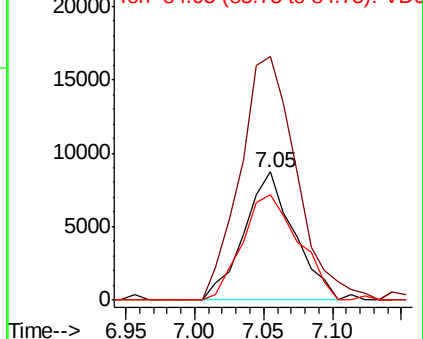
56 100

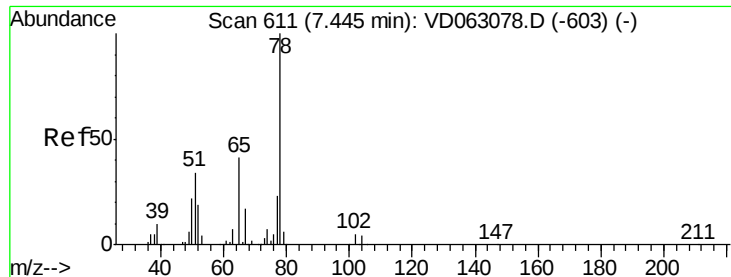
69 190.4 25.3 37.9#

84 82.2 64.2 96.4



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

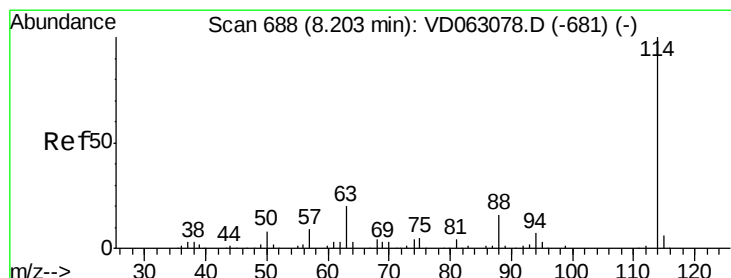
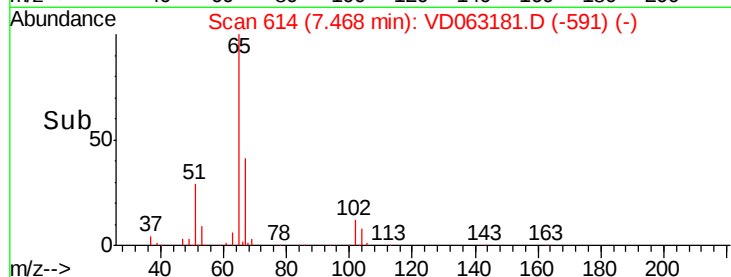
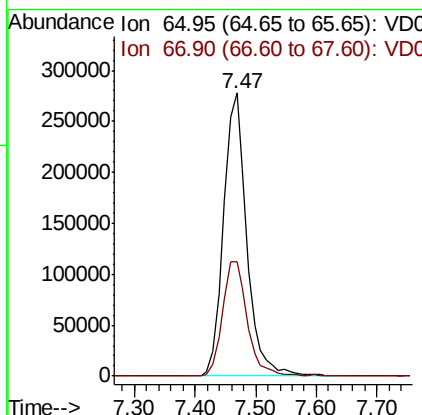
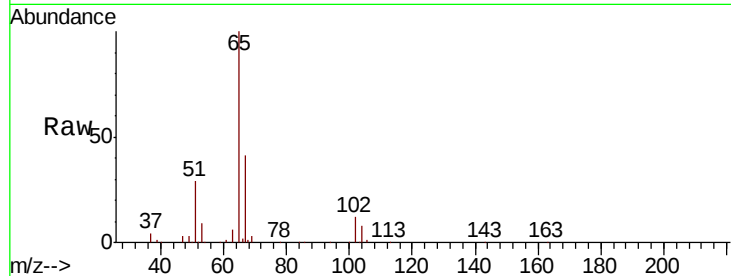




#33
 1,2-Dichloroethane-d4
 Concen: 56.432 ug/l
 RT: 7.47 min Scan# 614
 Delta R.T. 0.02 min
 Lab File: VD063181.D
 Acq: 22 Jul 2019 17:09

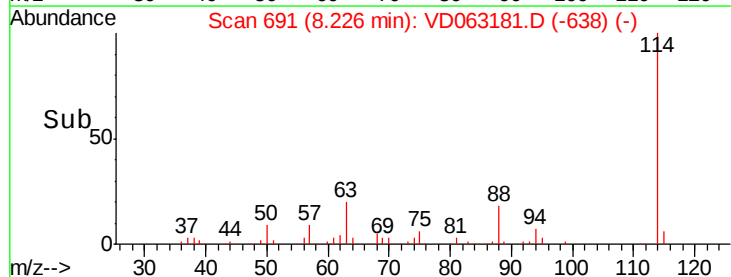
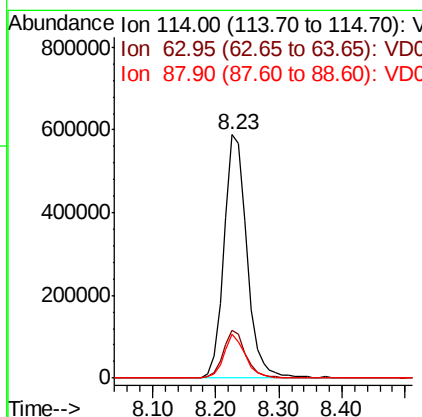
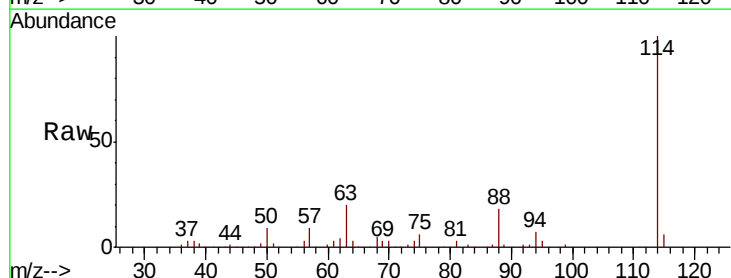
Instrument :
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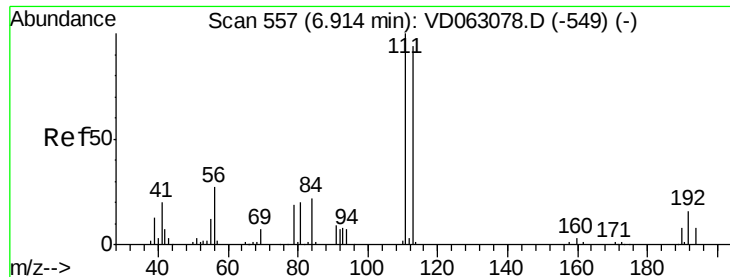
Tot Ion: 65 Resp: 739902
 Ion Ratio Lower Upper
 65 100
 67 40.6 0.0 86.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 691
 Delta R.T. 0.02 min
 Lab File: VD063181.D
 Acq: 22 Jul 2019 17:09

Tgt Ion: 114 Resp: 1483893
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 40.6
 88 17.8 0.0 32.6





#35

Dibromofluoromethane

Concen: 55.257 ug/l

RT: 6.94 min Scan# 560

Delta R.T. 0.02 min

Lab File: VD063181.D

Acq: 22 Jul 2019 17:09

Instrument :

MSVOA_D

ClientSampleId :

GIS-BUILDING-3

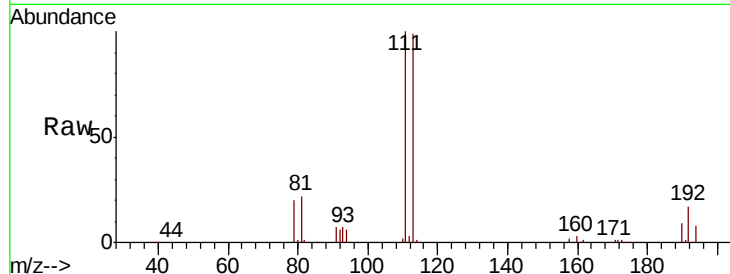
Tot Ion:113 Resp: 816689

Ion Ratio Lower Upper

113 100

111 100.8 84.8 127.2

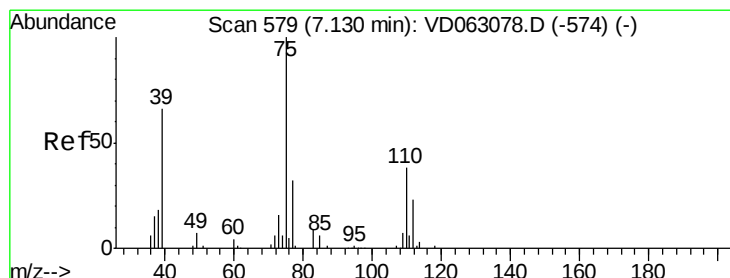
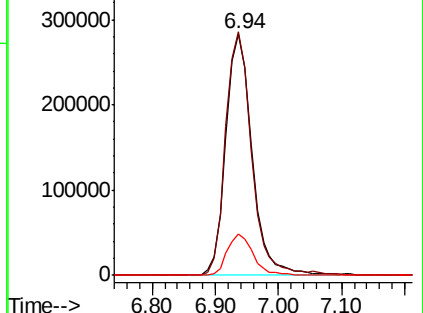
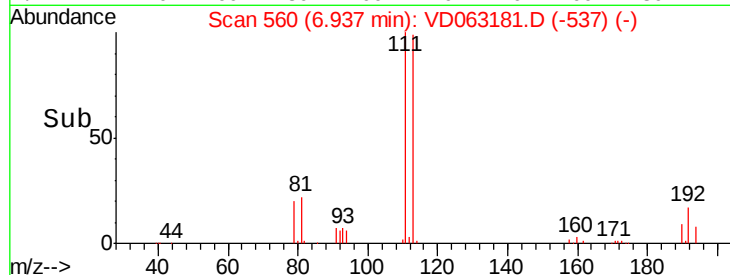
192 17.1 13.4 20.0



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: 4.629 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.08 min

Lab File: VD063181.D

Acq: 22 Jul 2019 17:09

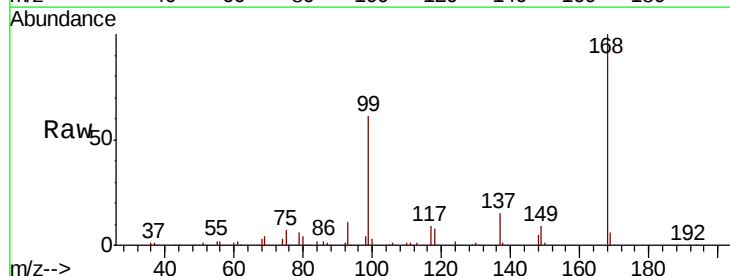
Tgt Ion: 75 Resp: 77257

Ion Ratio Lower Upper

75 100

110 13.0 18.9 56.5#

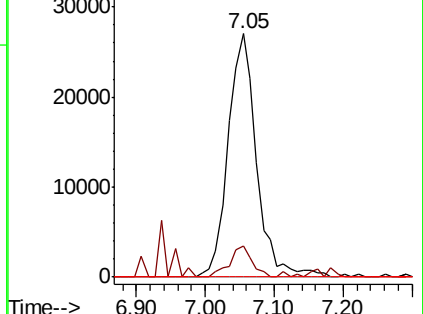
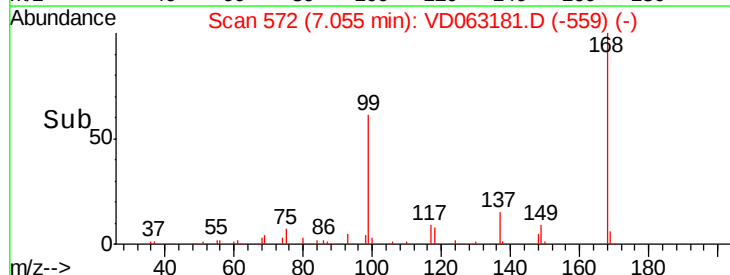
77 0.0 25.2 37.8#

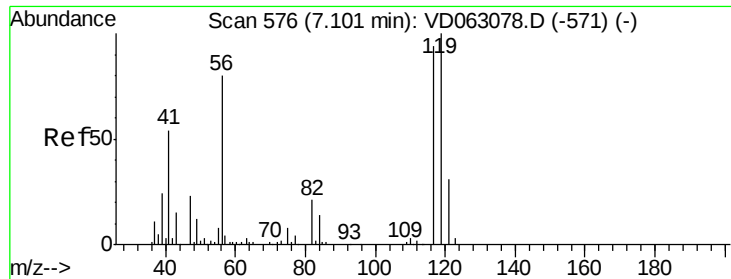


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#38

Carbon Tetrachloride

Concen: 3.995 ug/l

RT: 7.06 min Scan# 573

Delta R.T. -0.04 min

Lab File: VD063181.D

Acq: 22 Jul 2019 17:09

Instrument :

MSVOA_D

ClientSampleId :

GIS-BUILDING-3

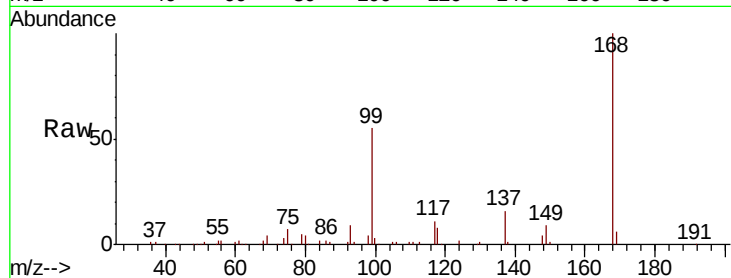
Tot Ion:117 Resp: 101316

Ion Ratio Lower Upper

117 100

119 3.9 80.0 120.0#

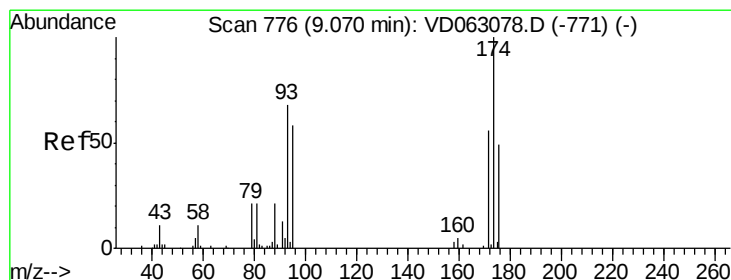
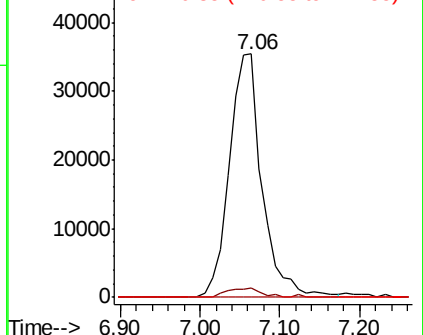
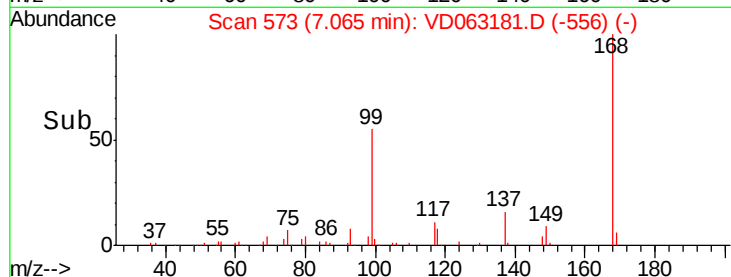
121 0.0 25.0 37.4#



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: 4.294 ug/l

RT: 8.82 min Scan# 751

Delta R.T. -0.25 min

Lab File: VD063181.D

Acq: 22 Jul 2019 17:09

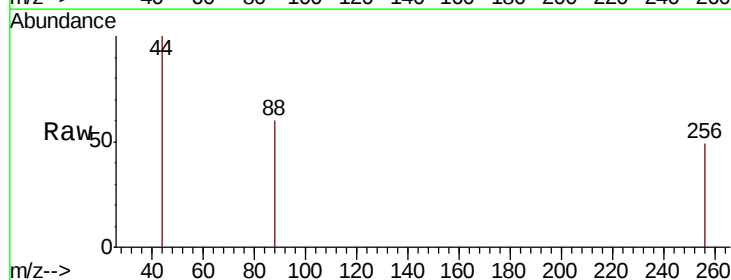
Tgt Ion: 88 Resp: 249

Ion Ratio Lower Upper

88 100

43 0.0 40.2 60.4#

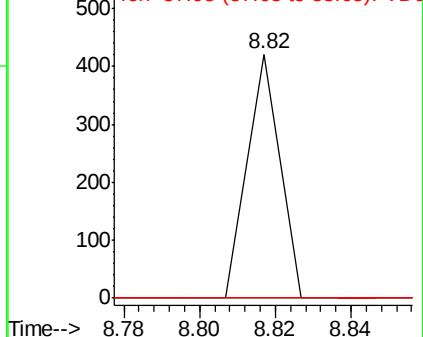
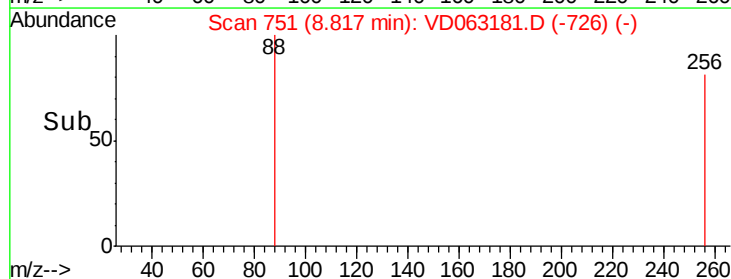
58 0.0 41.6 62.4#

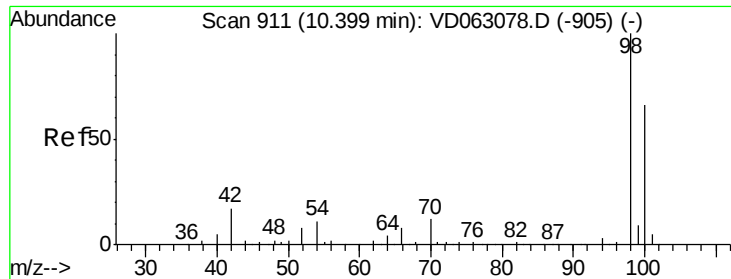


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC

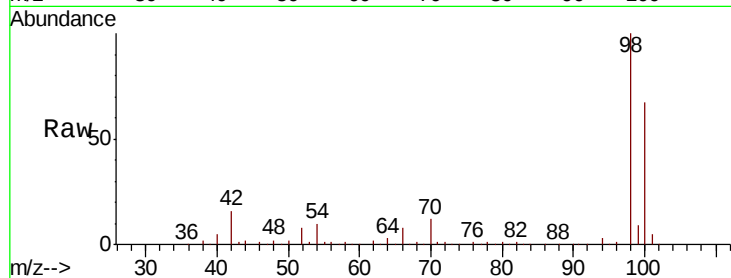




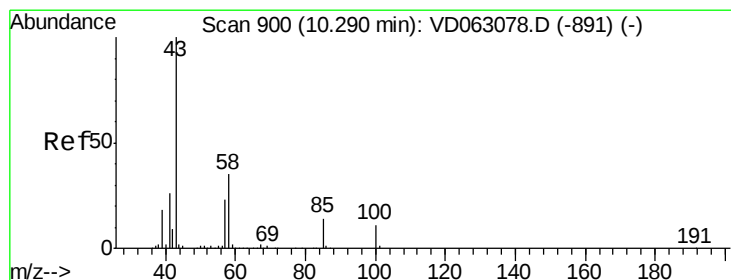
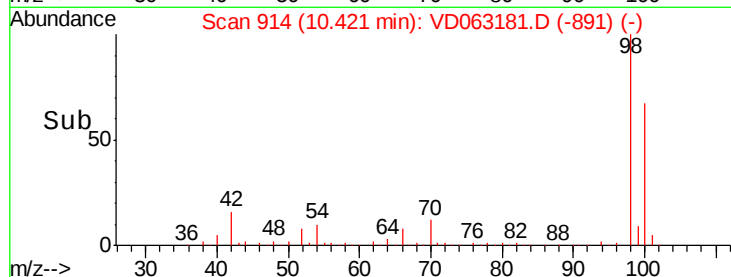
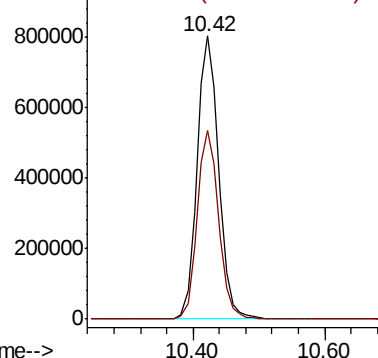
#50
Toluene-d8
Concen: 57.901 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.02 min
Lab File: VD063181.D
Acq: 22 Jul 2019 17:09

Instrument :
MSVOA_D
ClientSampleId :
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Tot Ion: 98 Resp: 1838213
Ion Ratio Lower Upper
98 100
100 66.6 53.5 80.3

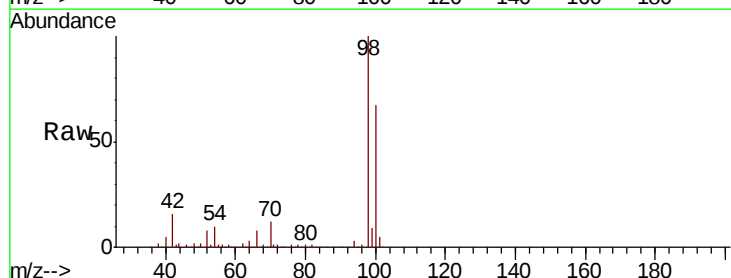


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

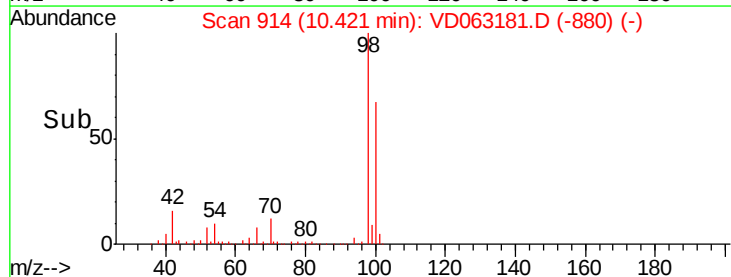
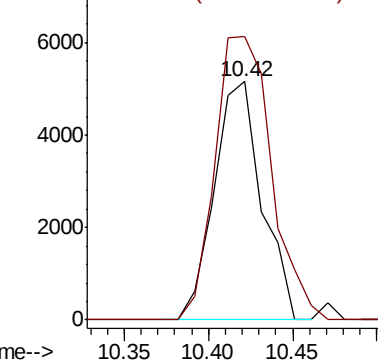


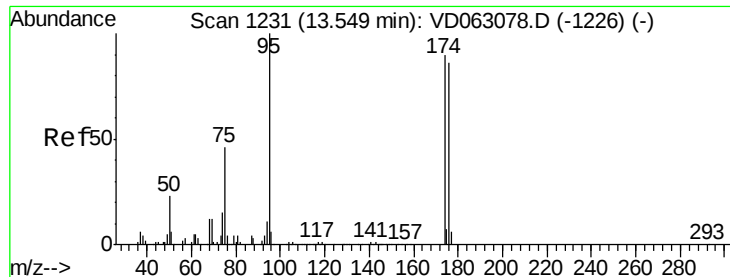
#51
4-Methyl-2-Pentanone
Concen: 1.486 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.13 min
Lab File: VD063181.D
Acq: 22 Jul 2019 17:09

Tgt Ion: 43 Resp: 10088
Ion Ratio Lower Upper
43 100
58 118.7 27.8 41.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

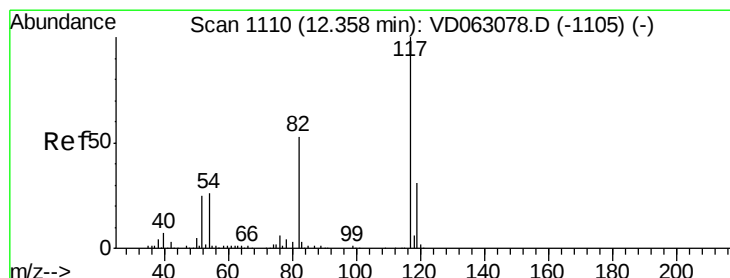
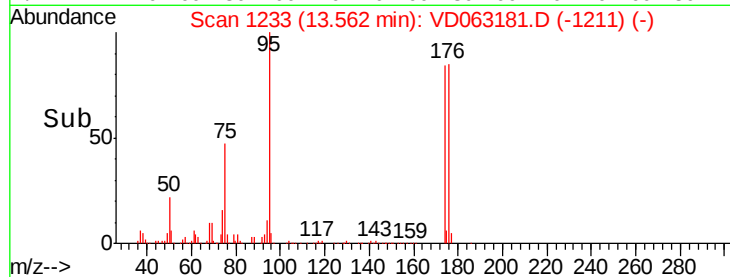
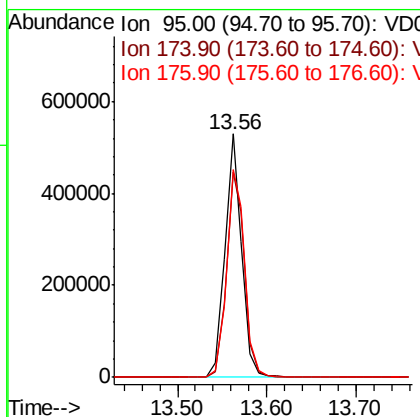
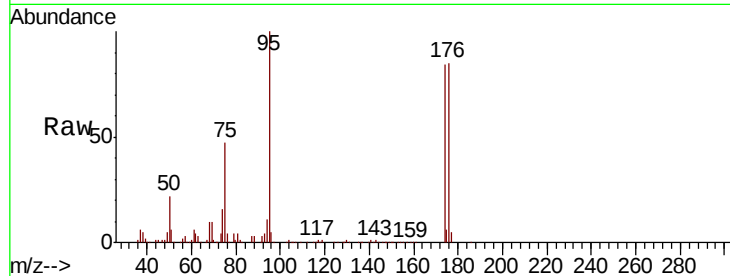




#62
4-Bromofluorobenzene
Concen: 47.756 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.01 min
Lab File: VD063181.D
Acq: 22 Jul 2019 17:09

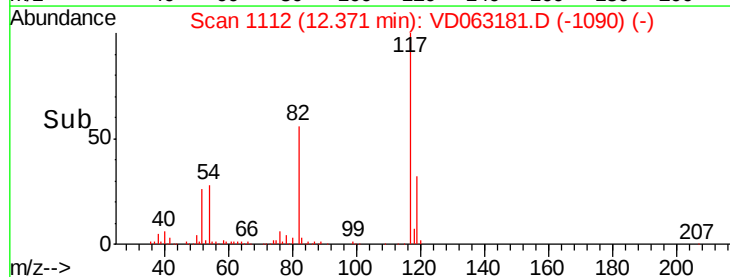
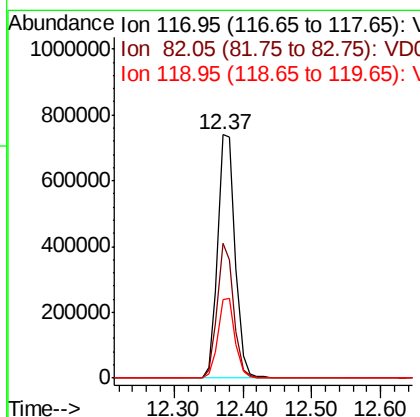
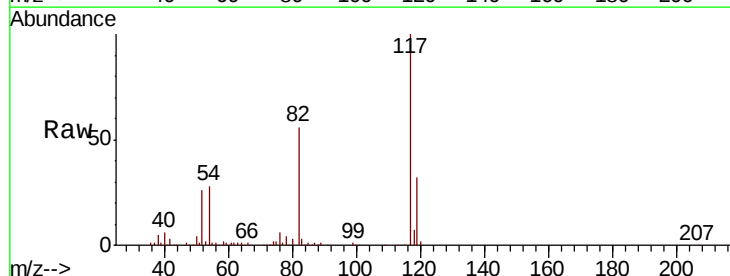
Instrument :
MSVOA_D
ClientSampleId :
GIS-BUILDING-3

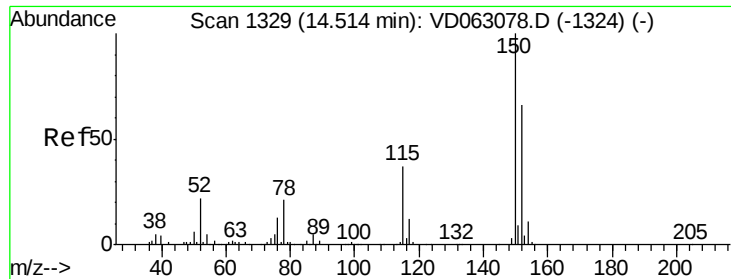
Tot Ion: 95 Resp: 701421
Ion Ratio Lower Upper
95 100
174 84.4 0.0 180.6
176 85.4 0.0 172.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD063181.D
Acq: 22 Jul 2019 17:09

Tgt Ion: 117 Resp: 1299183
Ion Ratio Lower Upper
117 100
82 55.6 42.3 63.5
119 32.0 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: VD063181.D

Acq: 22 Jul 2019 17:09

Instrument :

MSVOA_D

ClientSampleId :

GIS-BUILDING-3

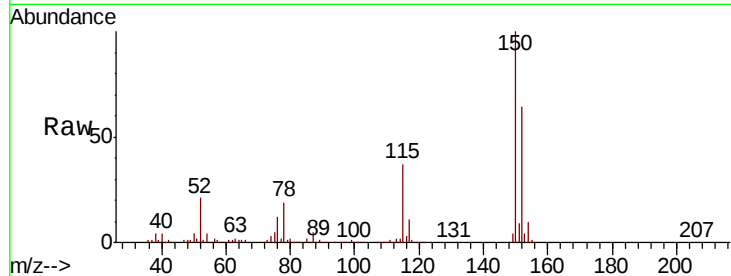
Tot Ion:152 Resp: 607659

Ion Ratio Lower Upper

152 100

115 57.7 28.9 86.8

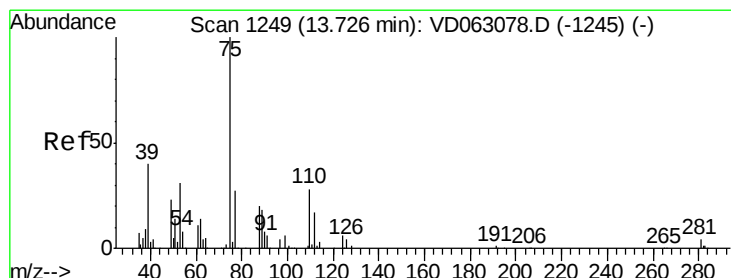
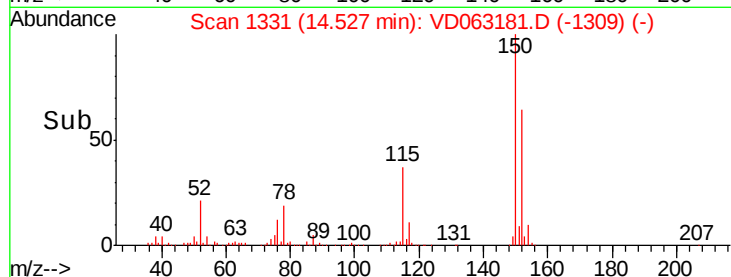
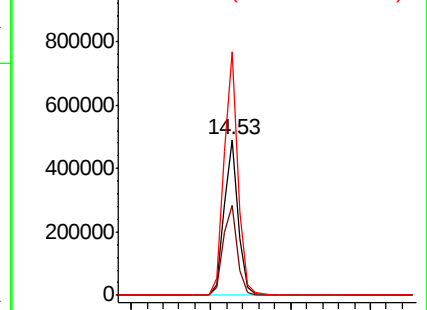
150 156.7 0.0 313.8



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



#76

1,2,3-Trichloropropane

Concen: 33.072 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.16 min

Lab File: VD063181.D

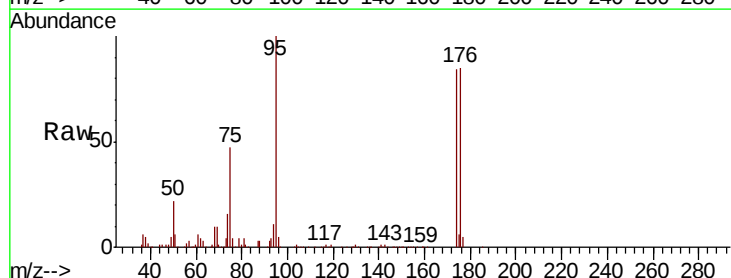
Acq: 22 Jul 2019 17:09

Tgt Ion: 75 Resp: 309141

Ion Ratio Lower Upper

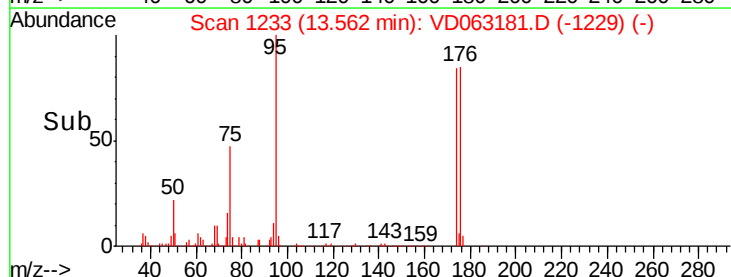
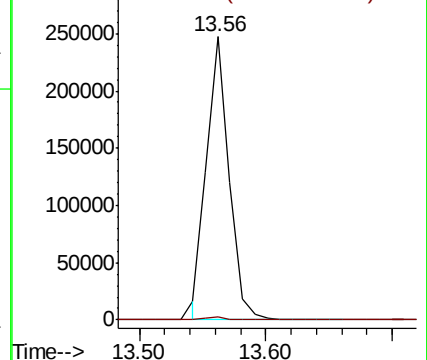
75 100

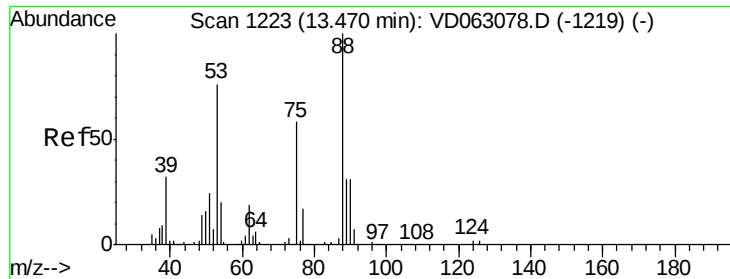
77 0.9 16.3 48.8#



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: 129.484 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD063181.D

Acq: 22 Jul 2019 17:09

Instrument :

MSVOA_D

ClientSampleId :

GIS-BUILDING-3

Tot Ion: 75 Resp: 318733

Ion Ratio Lower Upper

75 100

53 0.0 104.4 156.6#

89 0.0 43.1 64.7#

