

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070219\
 Data File : VD063004.D
 Acq On : 2 Jul 2019 15:55
 Operator : VA/AP
 Sample : K3649-02
 Misc : 5.08g/5ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jul 03 00:57:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	755695	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.24	114	1167930	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.38	117	723868	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.53	152	248663	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.48	65	511984	62.33	ug/l	0.01
Spiked Amount 50.000			Recovery	=	124.66%	
35) Dibromofluoromethane	6.95	113	550008	55.85	ug/l	0.01
Spiked Amount 50.000			Recovery	=	111.70%	
50) Toluene-d8	10.43	98	974460	45.46	ug/l	0.01
Spiked Amount 50.000			Recovery	=	90.92%	
62) 4-Bromofluorobenzene	13.56	95	299281	30.71	ug/l	0.00
Spiked Amount 50.000			Recovery	=	61.42%	

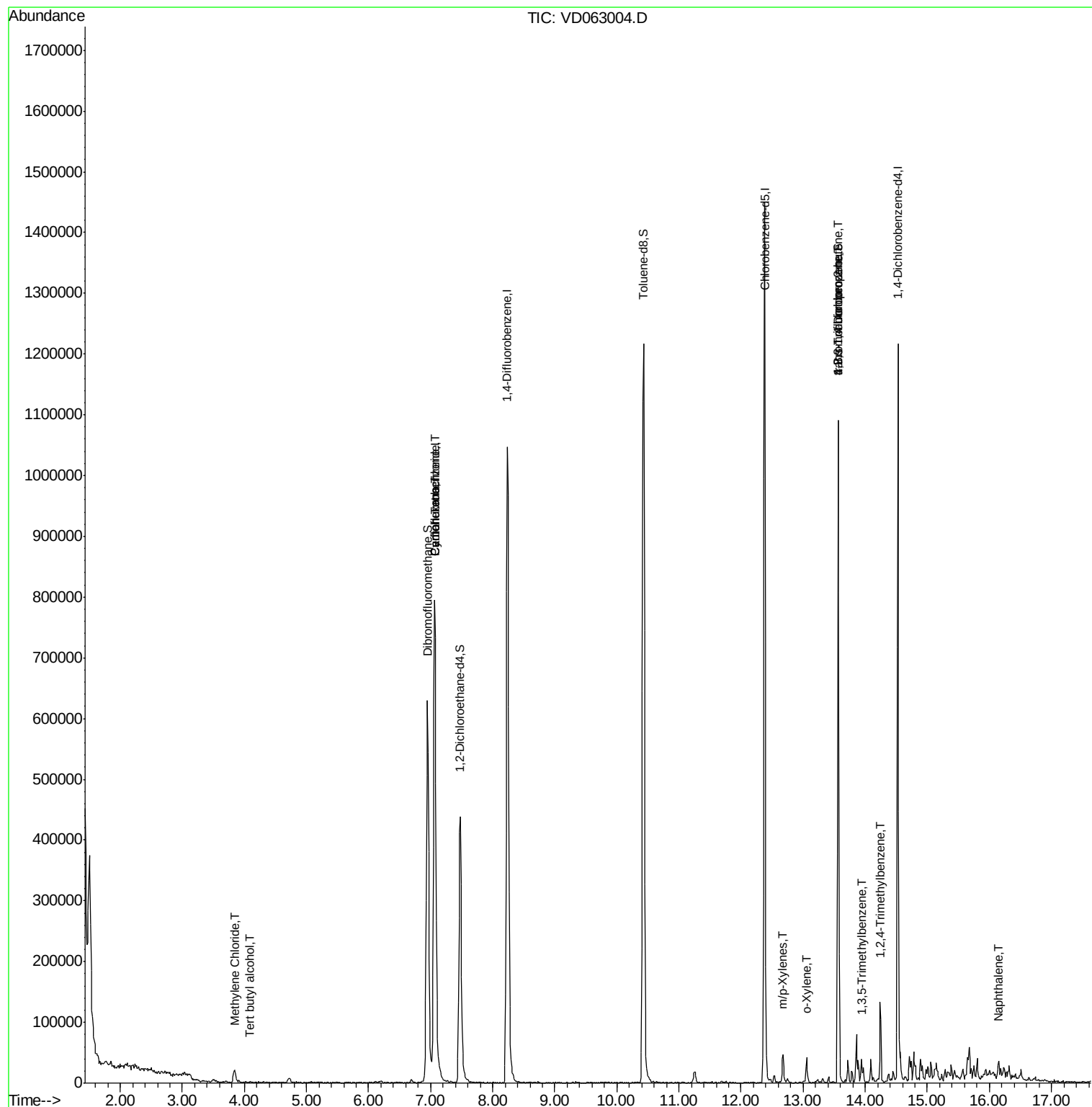
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.09	59	446	1.192	ug/l #	1
16) Acetone	3.23	43	7940	Below Cal	#	64
20) Methylene Chloride	3.84	84	13614	2.173	ug/l	82
31) Cyclohexane	7.06	56	17083	2.215	ug/l #	1
37) Ethyl Acetate	6.22	43	927	Below Cal	#	69
38) Carbon Tetrachloride	7.06	117	82280	4.948	ug/l #	15
68) m/p-Xylenes	12.68	106	11574	1.378	ug/l	85
69) o-Xylene	13.06	106	9224	1.201	ug/l	71
76) 1,2,3-Trichloropropane	13.56	75	109546	38.161	ug/l #	46
80) 1,3,5-Trimethylbenzene	13.95	105	19860	1.483	ug/l	90
81) trans-1,4-Dichloro-2-buten	13.56	75	136388	181.283	ug/l #	2
84) 1,2,4-Trimethylbenzene	14.24	105	58771	4.282	ug/l	92
95) Naphthalene	16.13	128	9157	1.272	ug/l #	92

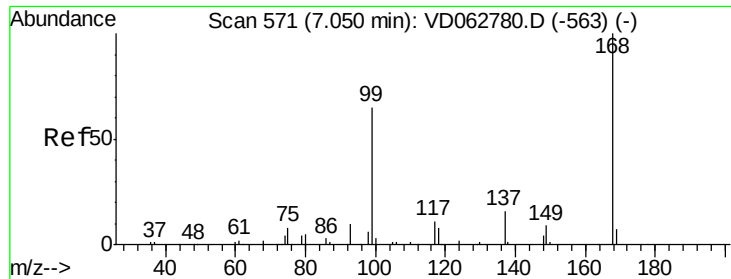
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jun 20 01:50:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.01 min

Lab File: VD063004.D

Acq: 2 Jul 2019 15:55

Instrument :

MSVOA_D

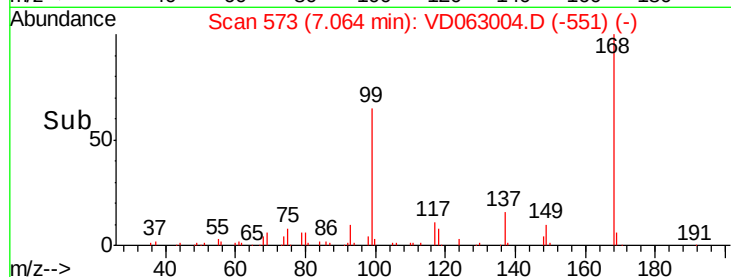
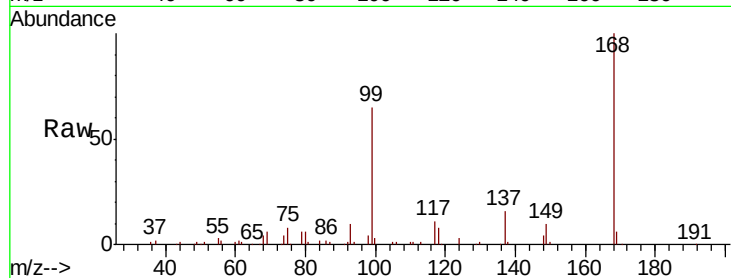
ClientSampleId :

Tot Ion:168 Resp: 755695

Ion Ratio Lower Upper

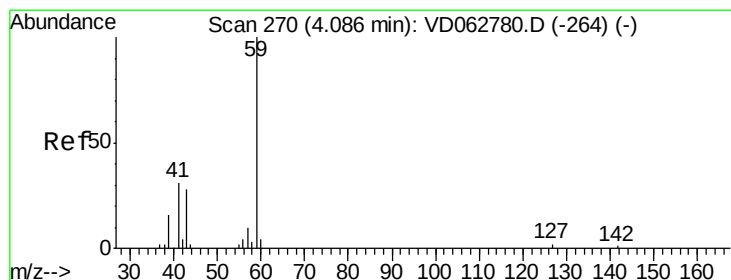
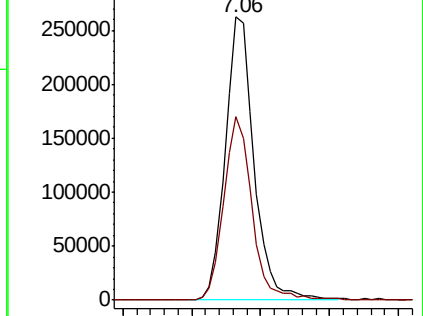
168 100

99 64.6 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 1.192 ug/l

RT: 4.09 min Scan# 271

Delta R.T. 0.00 min

Lab File: VD063004.D

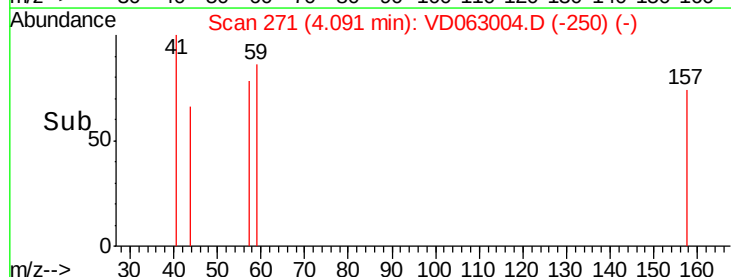
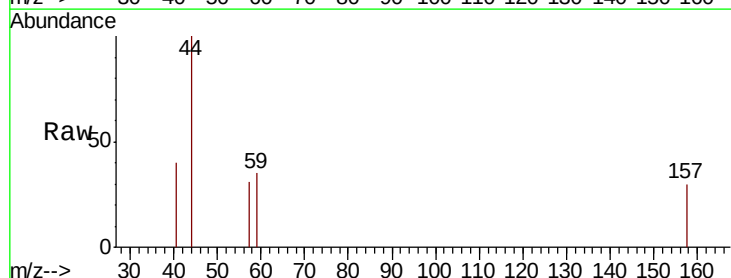
Acq: 2 Jul 2019 15:55

Tgt Ion: 59 Resp: 446

Ion Ratio Lower Upper

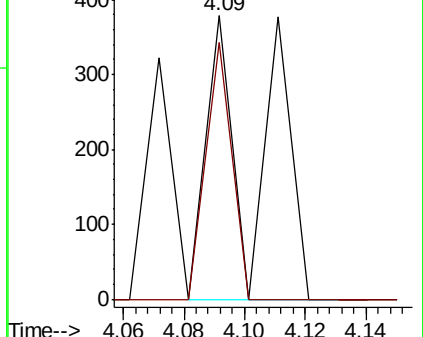
59 100

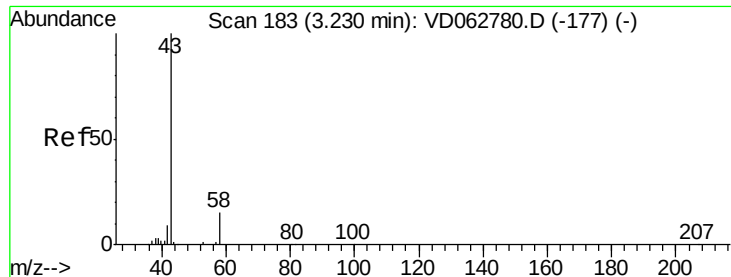
57 90.7 6.6 10.0#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: Below Cal

RT: 3.23 min Scan# 183

Delta R.T. -0.00 min

Lab File: VD063004.D

Acq: 2 Jul 2019 15:55

Instrument :

MSVOA_D

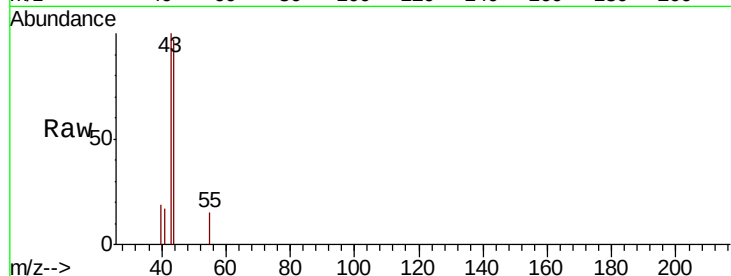
ClientSampleId :

Tot Ion: 43 Resp: 7940

Ion Ratio Lower Upper

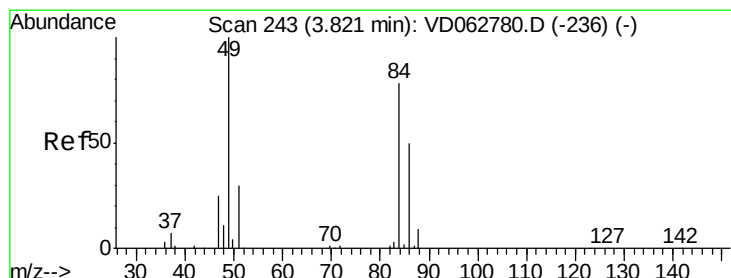
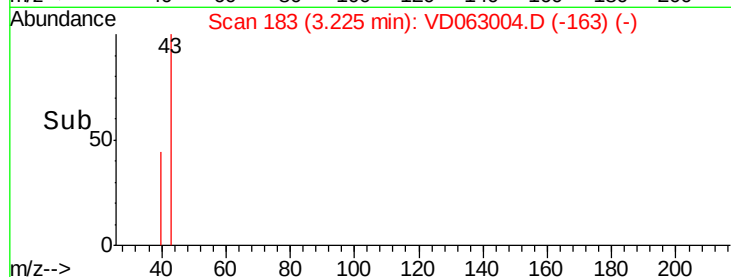
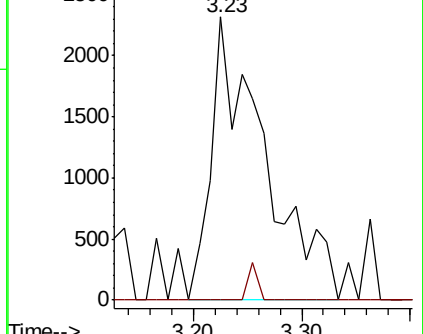
43 100

58 0.0 11.9 17.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 2.173 ug/l

RT: 3.84 min Scan# 245

Delta R.T. 0.01 min

Lab File: VD063004.D

Acq: 2 Jul 2019 15:55

Tgt Ion: 84 Resp: 13614

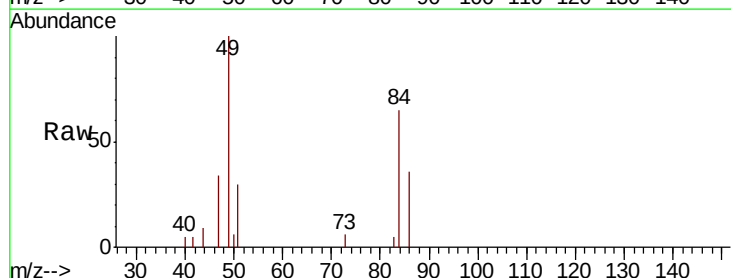
Ion Ratio Lower Upper

84 100

49 154.1 102.9 154.3

51 46.4 31.2 46.8

86 54.9 51.4 77.2

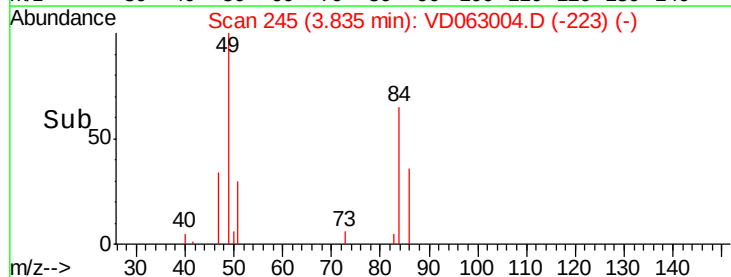
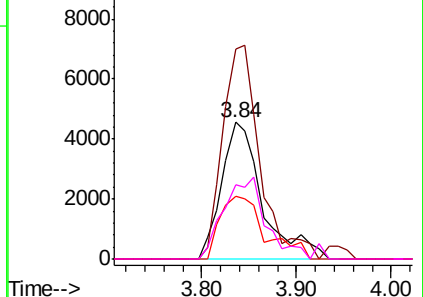


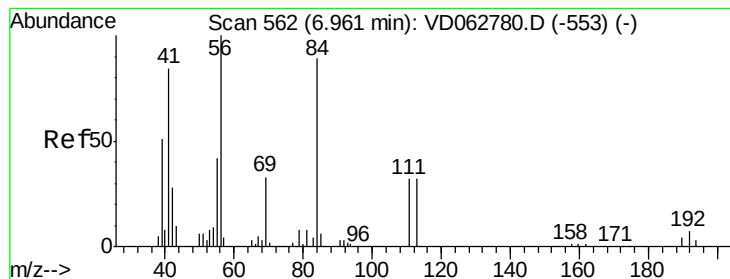
Abundance Ion 83.95 (83.65 to 84.65): VDC

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





#31

Cyclohexane

Concen: 2.215 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.10 min

Lab File: VD063004.D

Acq: 2 Jul 2019 15:55

Instrument :
MSVOA_D
ClientSampled :

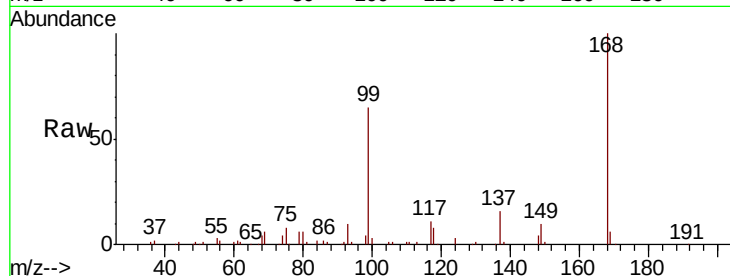
Tot Ion: 56 Resp: 17083

Ion Ratio Lower Upper

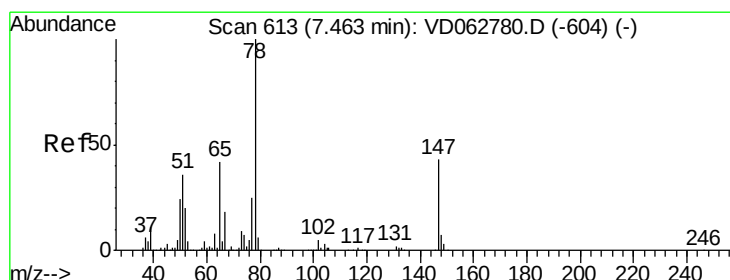
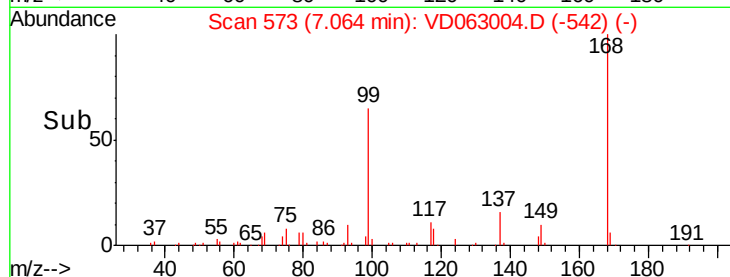
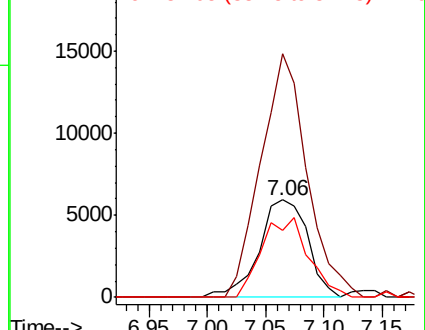
56 100

69 250.8 26.6 39.8#

84 69.1 75.5 113.3#



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: 62.328 ug/l

RT: 7.48 min Scan# 615

Delta R.T. 0.01 min

Lab File: VD063004.D

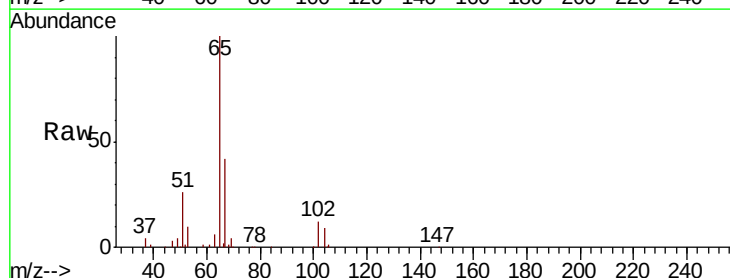
Acq: 2 Jul 2019 15:55

Tgt Ion: 65 Resp: 511984

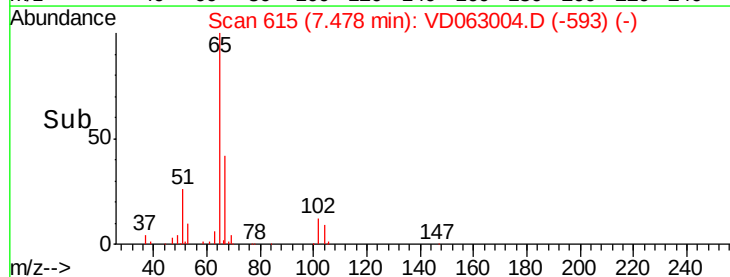
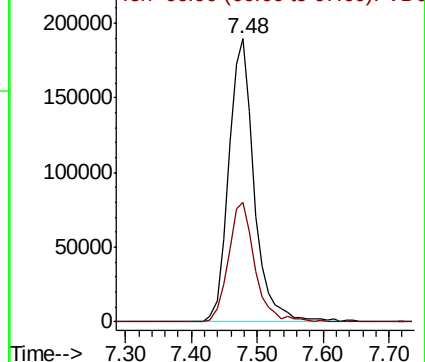
Ion Ratio Lower Upper

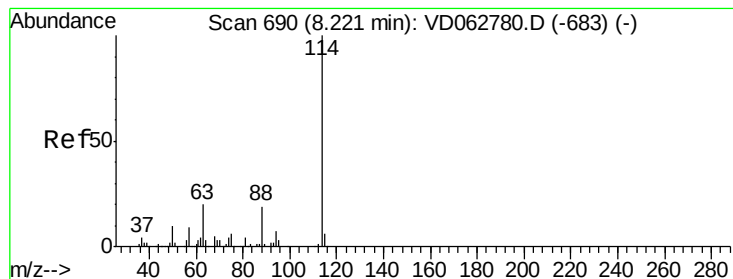
65 100

67 42.3 0.0 87.4



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.24 min Scan# 692

Delta R.T. 0.01 min

Lab File: VD063004.D

Acq: 2 Jul 2019 15:55

Instrument :

MSVOA_D

ClientSampleId :

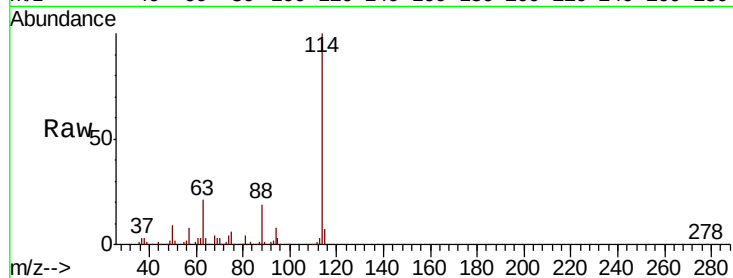
Tot Ion:114 Resp: 1167930

Ion Ratio Lower Upper

114 100

63 20.8 0.0 40.0

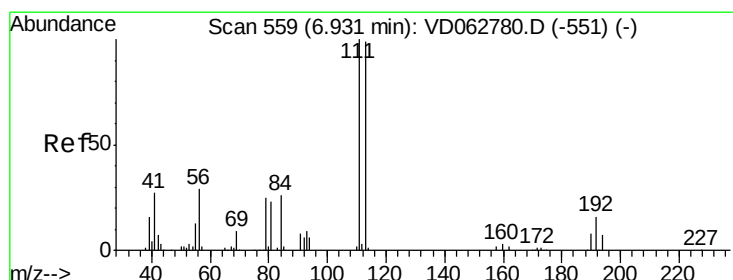
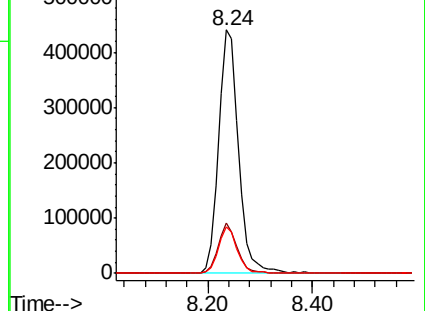
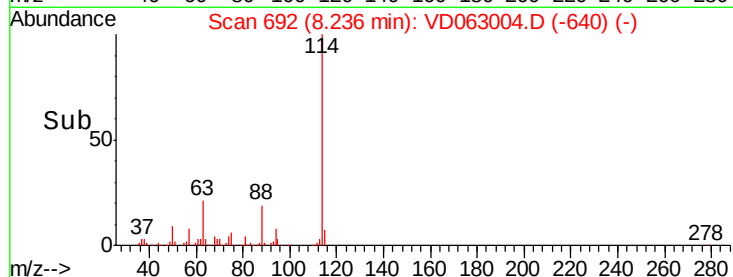
88 19.3 0.0 38.8



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 55.850 ug/l

RT: 6.95 min Scan# 561

Delta R.T. 0.01 min

Lab File: VD063004.D

Acq: 2 Jul 2019 15:55

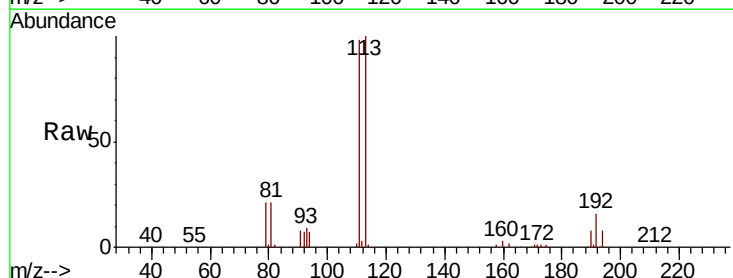
Tgt Ion:113 Resp: 550008

Ion Ratio Lower Upper

113 100

111 97.6 81.2 121.8

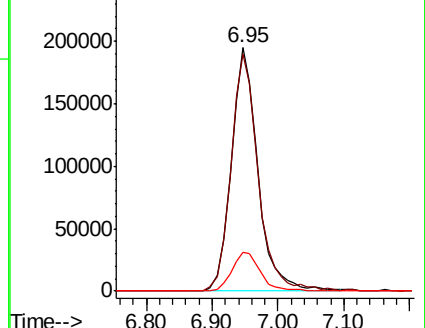
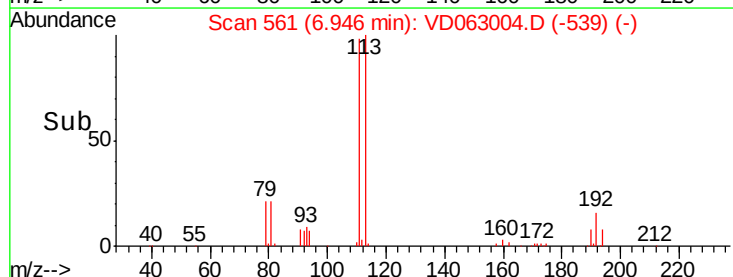
192 15.9 12.9 19.3

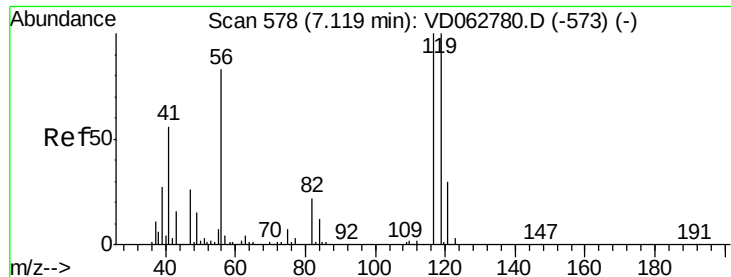


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

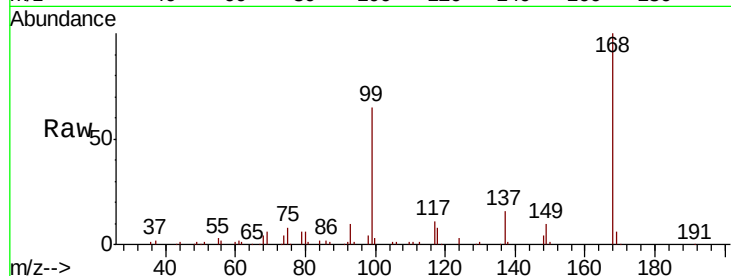




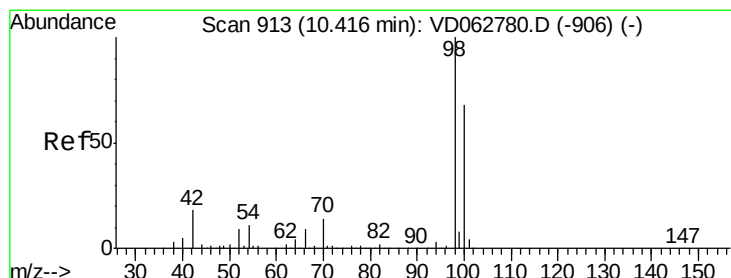
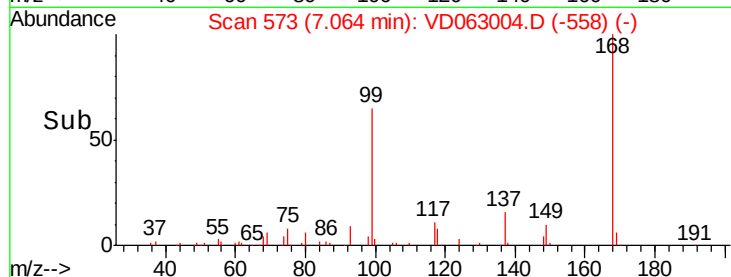
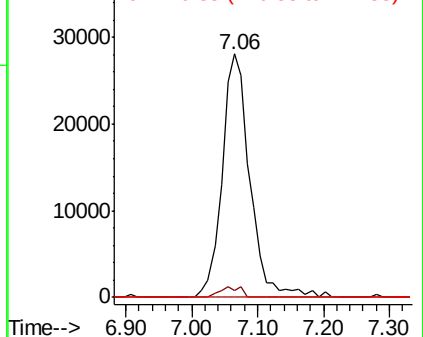
#38
Carbon Tetrachloride
Concen: 4.948 ug/l
RT: 7.06 min Scan# 573
Delta R.T. -0.05 min
Lab File: VD063004.D
Acq: 2 Jul 2019 15:55

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 82280
Ion Ratio Lower Upper
117 100
119 2.9 75.4 113.2#
121 0.0 22.3 33.5#

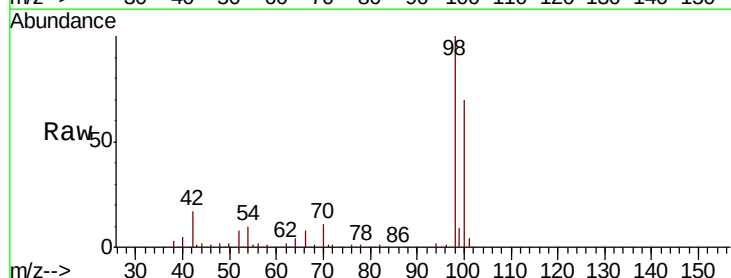


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

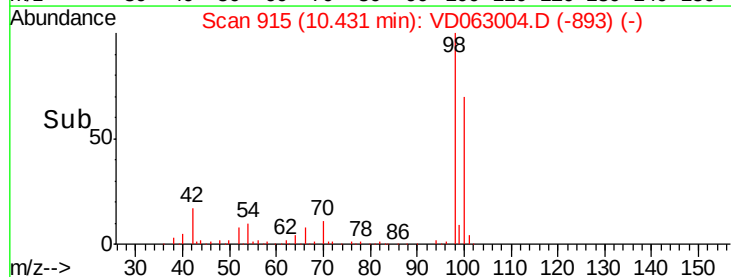
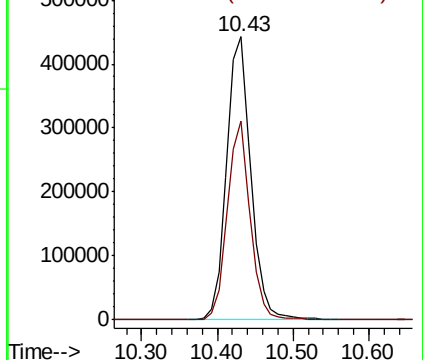


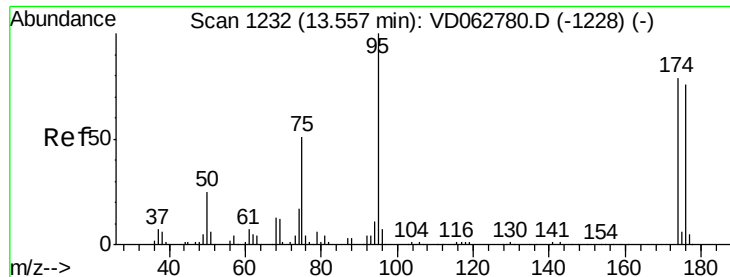
#50
Toluene-d8
Concen: 45.464 ug/l
RT: 10.43 min Scan# 915
Delta R.T. 0.01 min
Lab File: VD063004.D
Acq: 2 Jul 2019 15:55

Tgt Ion: 98 Resp: 974460
Ion Ratio Lower Upper
98 100
100 70.3 54.7 82.1



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





#62

4-Bromofluorobenzene

Concen: 30.708 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VD063004.D

Acq: 2 Jul 2019 15:55

Instrument :

MSVOA_D

ClientSampled :

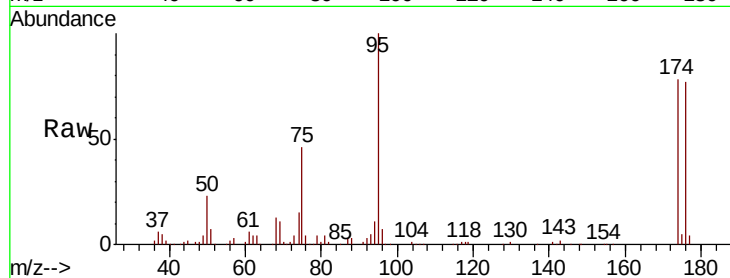
Tot Ion: 95 Resp: 299281

Ion Ratio Lower Upper

95 100

174 77.6 0.0 158.0

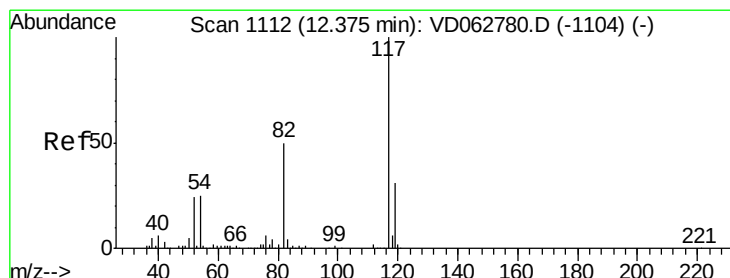
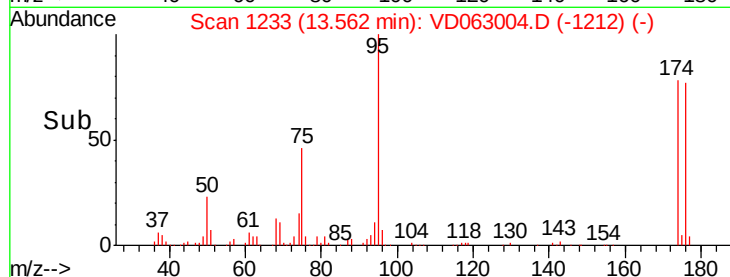
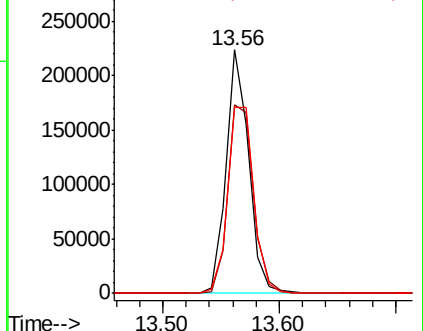
176 76.6 0.0 151.6



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: 12.38 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VD063004.D

Acq: 2 Jul 2019 15:55

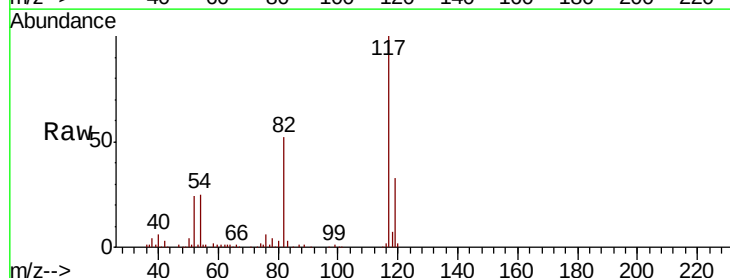
Tgt Ion: 117 Resp: 723868

Ion Ratio Lower Upper

117 100

82 52.3 40.4 60.6

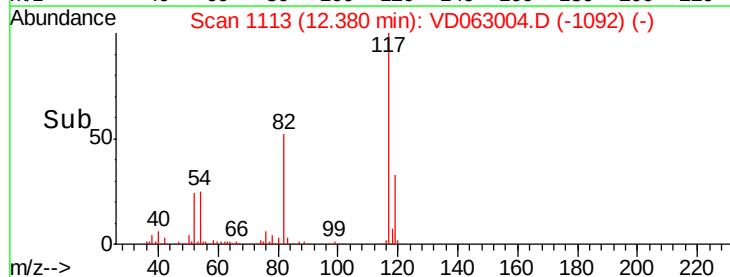
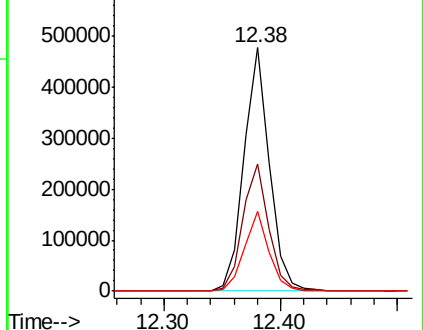
119 32.8 25.2 37.8

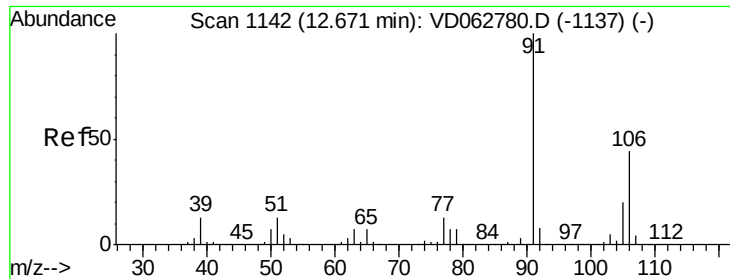


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

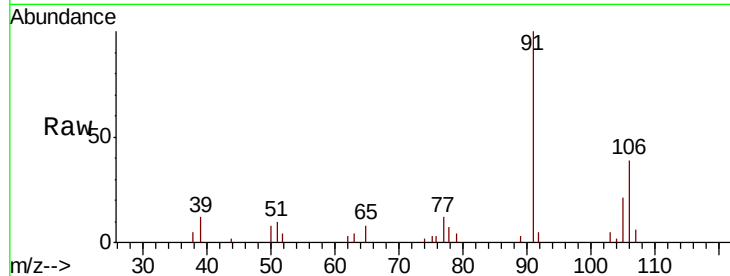




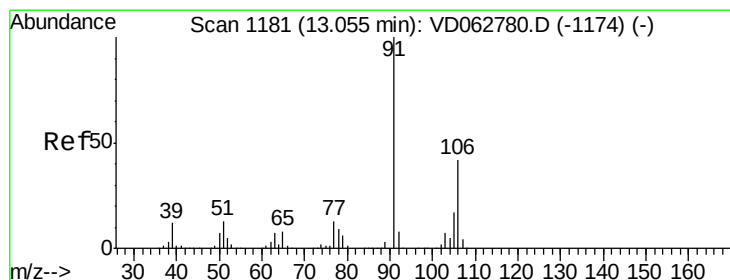
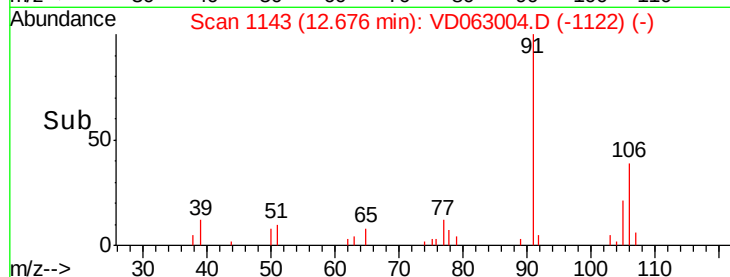
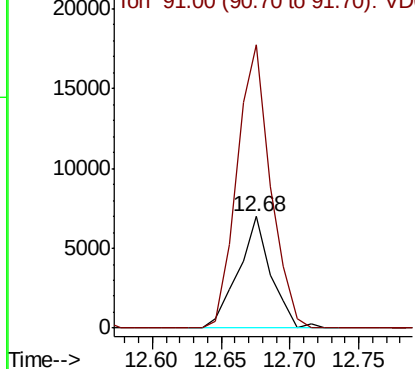
#68
m/p-Xylenes
Concen: 1.378 ug/l
RT: 12.68 min Scan# 1143
Delta R.T. 0.00 min
Lab File: VD063004.D
Acq: 2 Jul 2019 15:55

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:106 Resp: 11574
Ion Ratio Lower Upper
106 100
91 253.6 183.0 274.6

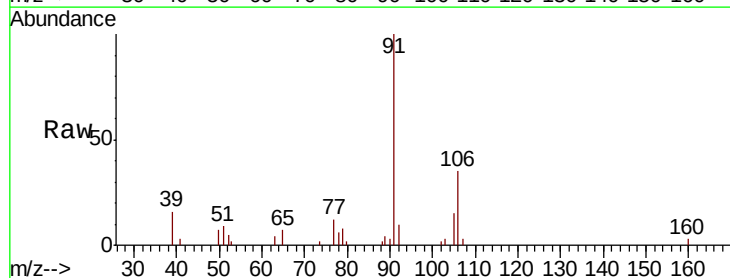


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

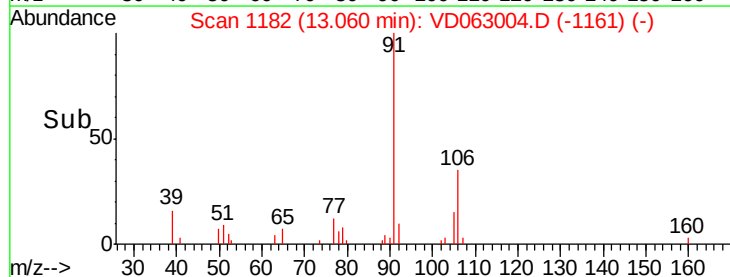
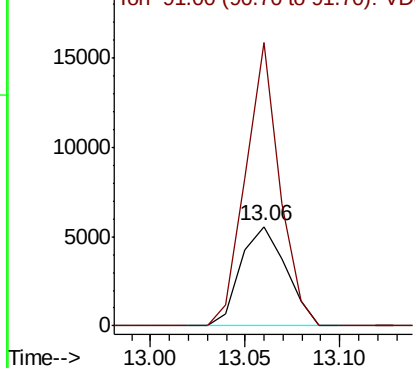


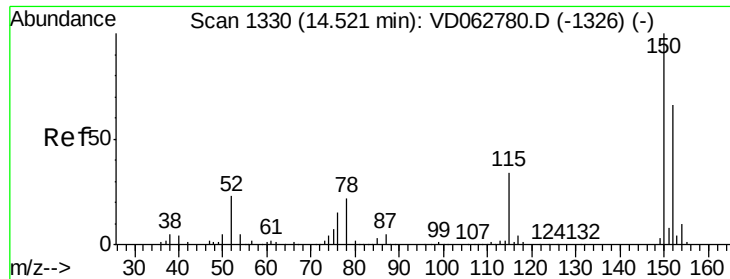
#69
o-Xylene
Concen: 1.201 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VD063004.D
Acq: 2 Jul 2019 15:55

Tgt Ion:106 Resp: 9224
Ion Ratio Lower Upper
106 100
91 284.7 117.9 353.6



Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.53 min Scan# 1331

Delta R.T. 0.00 min

Lab File: VD063004.D

Acq: 2 Jul 2019 15:55

Instrument :

MSVOA_D

ClientSampled :

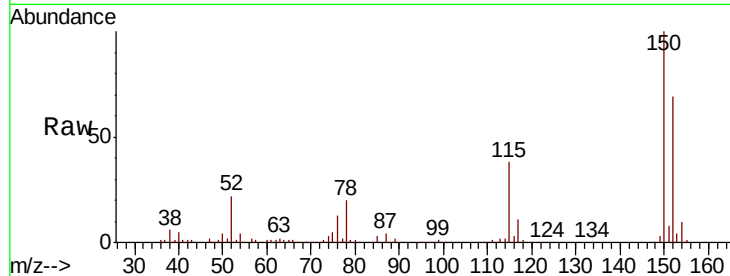
Tot Ion:152 Resp: 248663

Ion Ratio Lower Upper

152 100

115 55.4 29.2 87.6

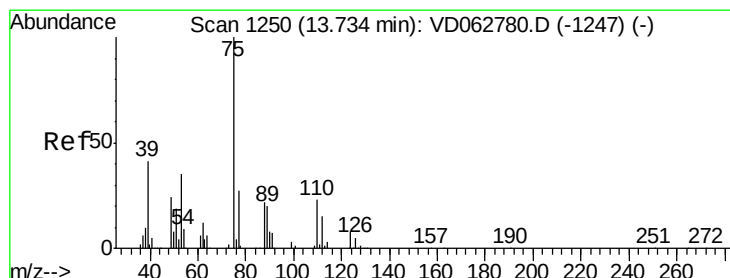
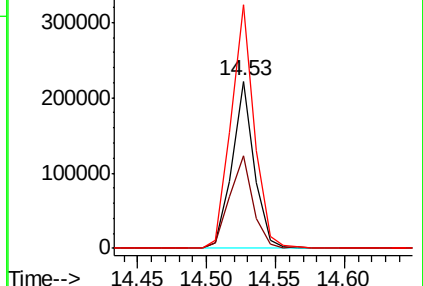
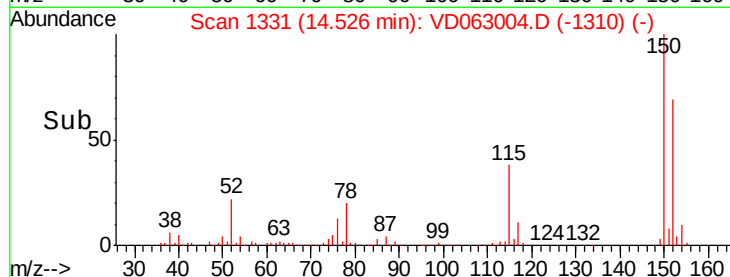
150 145.9 0.0 305.8



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: 38.161 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.17 min

Lab File: VD063004.D

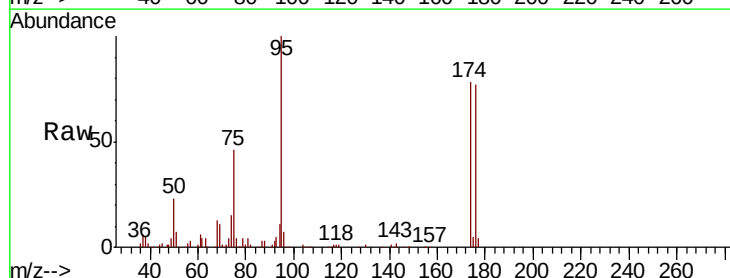
Acq: 2 Jul 2019 15:55

Tgt Ion: 75 Resp: 109546

Ion Ratio Lower Upper

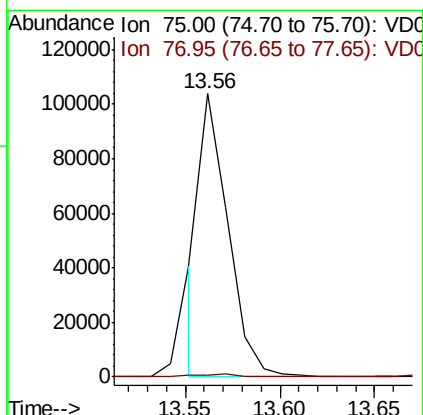
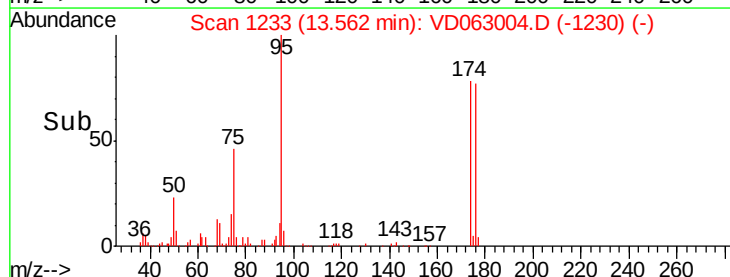
75 100

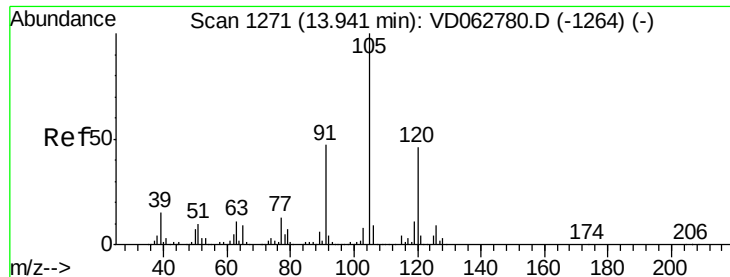
77 0.8 15.0 45.1#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 76.95 (76.65 to 77.65): V

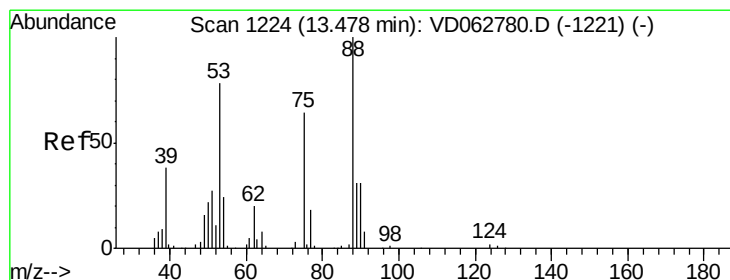
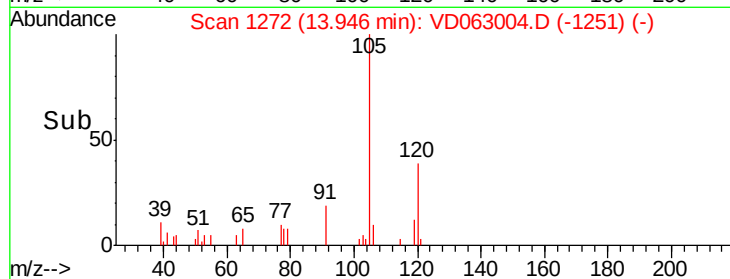
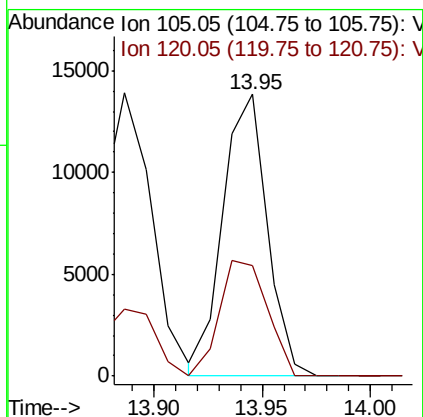
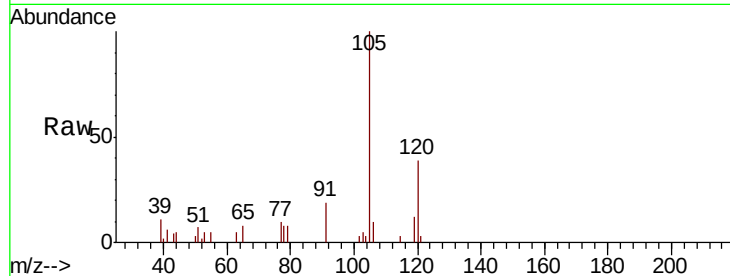




#80
 1,3,5-Trimethylbenzene
 Concen: 1.483 ug/l
 RT: 13.95 min Scan# 1272
 Delta R.T. 0.00 min
 Lab File: VD063004.D
 Acq: 2 Jul 2019 15:55

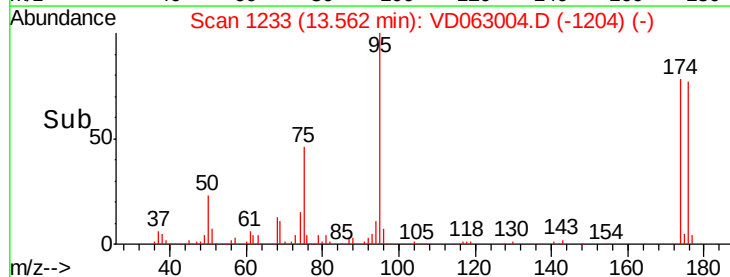
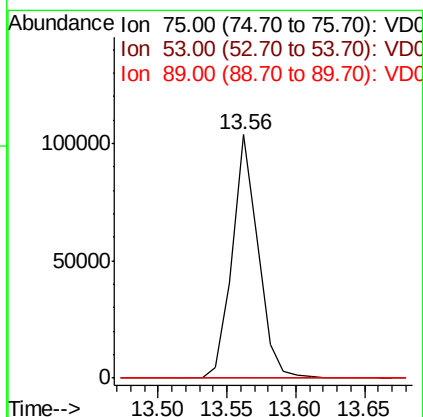
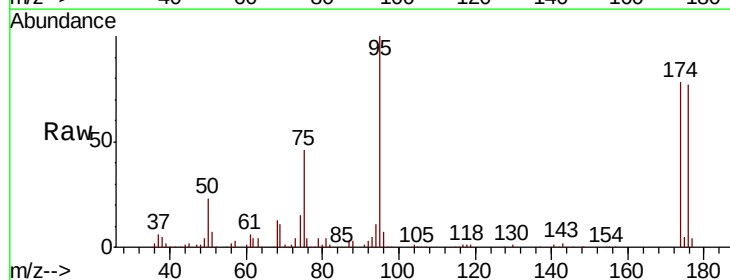
Instrument :
 MSVOA_D
 ClientSampled :

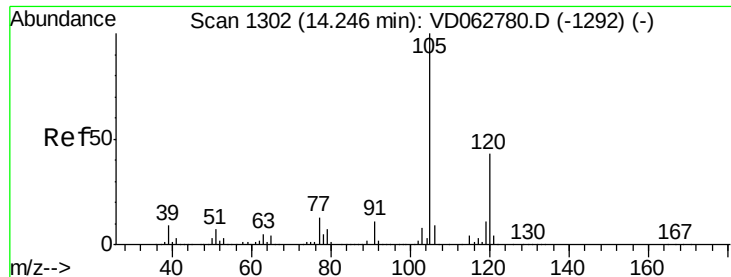
Tot Ion:105 Resp: 19860
 Ion Ratio Lower Upper
 105 100
 120 39.2 23.1 69.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 181.283 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.08 min
 Lab File: VD063004.D
 Acq: 2 Jul 2019 15:55

Tgt Ion: 75 Resp: 136388
 Ion Ratio Lower Upper
 75 100
 53 0.0 97.8 146.8#
 89 0.0 39.4 59.2#





#84

1,2,4-Trimethylbenzene

Concen: 4.282 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. -0.00 min

Lab File: VD063004.D

Acq: 2 Jul 2019 15:55

Instrument :

MSVOA_D

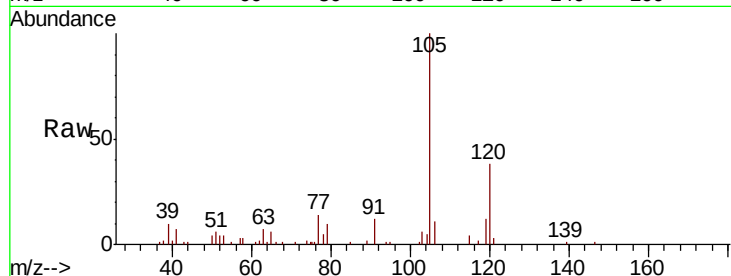
ClientSampleId :

Tot Ion:105 Resp: 58771

Ion Ratio Lower Upper

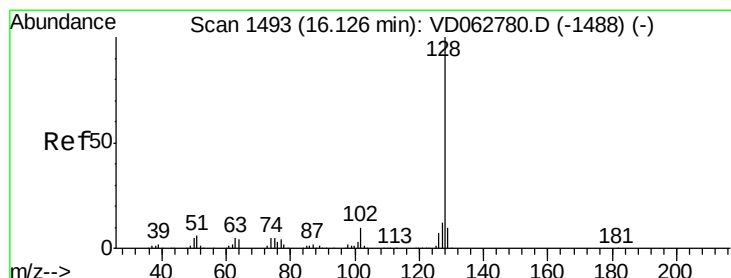
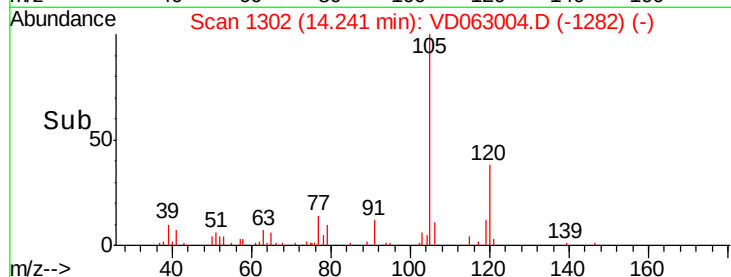
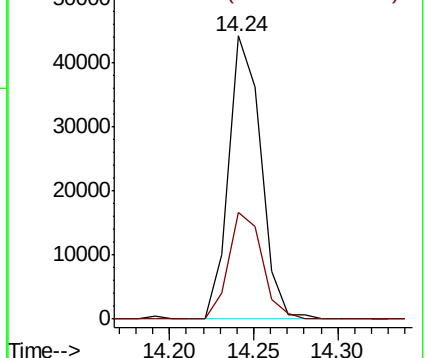
105 100

120 37.8 21.3 63.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#95

Naphthalene

Concen: 1.272 ug/l

RT: 16.13 min Scan# 1494

Delta R.T. 0.00 min

Lab File: VD063004.D

Acq: 2 Jul 2019 15:55

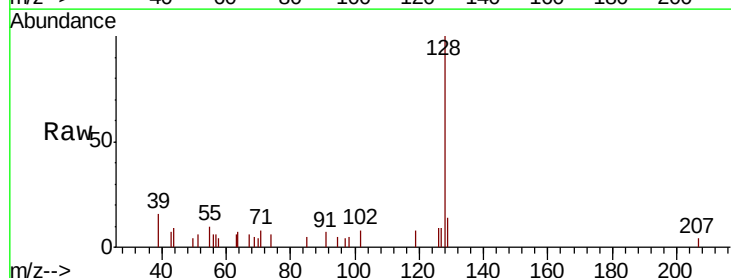
Tgt Ion:128 Resp: 9157

Ion Ratio Lower Upper

128 100

127 9.0 9.7 14.5#

129 13.6 8.3 12.5#



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

