

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081319\
 Data File : VD063545.D
 Acq On : 13 Aug 2019 23:26
 Operator : JC/SY
 Sample : K4290-04
 Misc : 5.10a/5ml/MSVOA D/SOIL
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Aug 14 08:31:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 10 06:42:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	263703	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.22	114	390096	50.00	ug/l	-0.01
63) Chlorobenzene-d5	12.38	117	130871	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	11390	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	229674	81.48	ug/l	0.00
Spiked Amount			Recovery	=	162.96%	
35) Dibromofluoromethane	6.93	113	249576	75.96	ug/l	0.00
Spiked Amount			Recovery	=	151.92%	
50) Toluene-d8	10.42	98	229673	31.80	ug/l	0.00
Spiked Amount			Recovery	=	63.60%	
62) 4-Bromofluorobenzene	13.56	95	21721	6.63	ug/l	0.00
Spiked Amount			Recovery	=	13.26%	

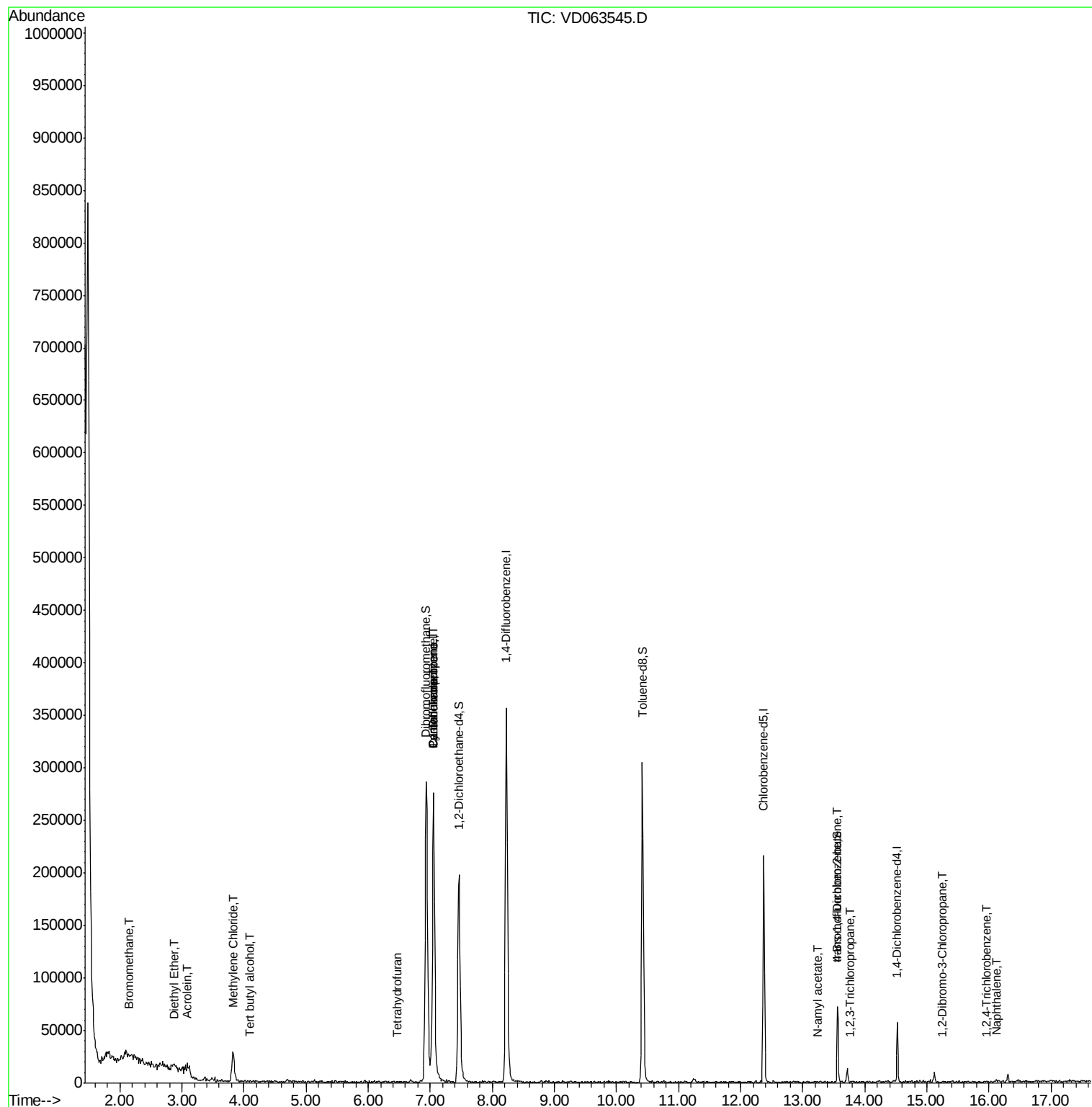
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.14	94	1515	1.298	ug/l #	11
8) Diethyl Ether	2.88	74	2590	3.779	ug/l	79
11) Tert butyl alcohol	4.10	59	298	2.429	ug/l #	71
13) Acrolein	3.09	56	217	1.797	ug/l #	18
20) Methylene Chloride	3.82	84	18072	7.294	ug/l	91
29) Tetrahydrofuran	6.46	42	408	1.547	ug/l #	35
31) Cyclohexane	7.05	56	5994	2.355	ug/l #	21
36) 1,1-Dichloropropene	7.06	75	19323	5.603	ug/l #	42
38) Carbon Tetrachloride	7.05	117	24579	4.729	ug/l #	16
74) N-amyl acetate	13.24	43	369	2.029	ug/l #	53
76) 1,2,3-Trichloropropane	13.77	75	261	1.997	ug/l #	44
81) trans-1,4-Dichloro-2-buten	13.56	75	10285	292.737	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	15.25	75	248	10.953	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.95	180	759	3.395	ug/l #	68
95) Naphthalene	16.13	128	757	2.234	ug/l #	71

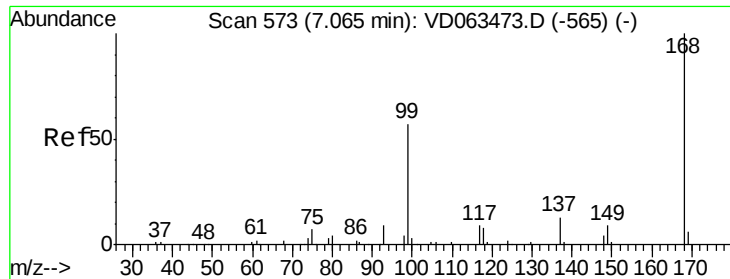
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD081319\
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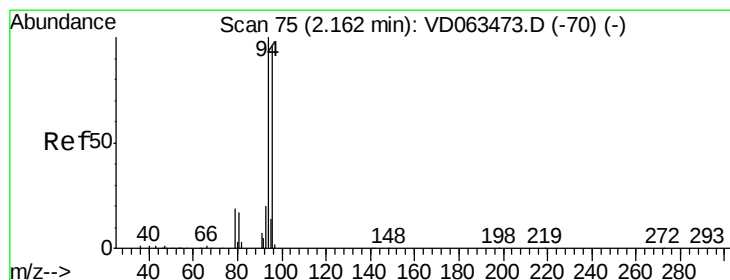
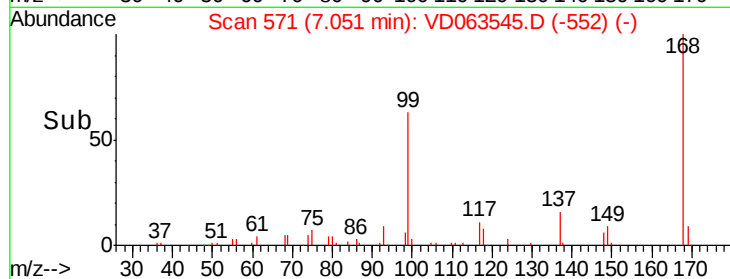
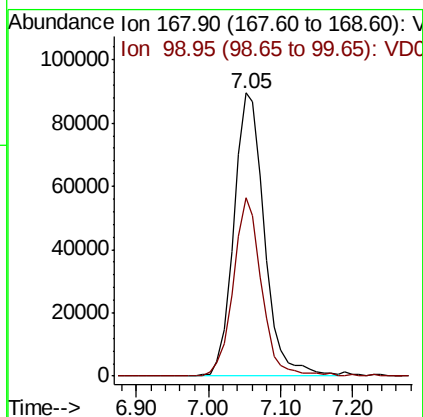
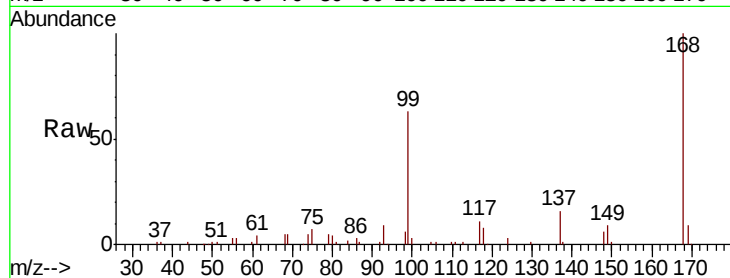




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.05 min Scan# 571
Delta R.T. -0.01 min
Lab File: VD063545.D
Acq: 13 Aug 2019 23:26

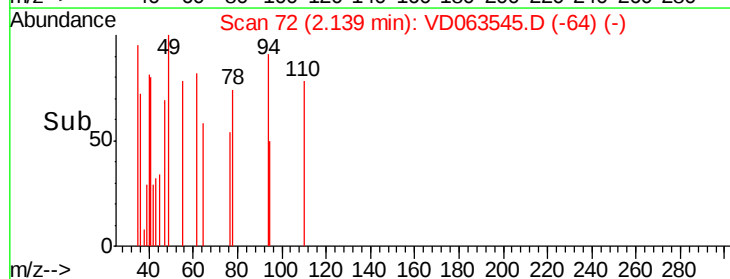
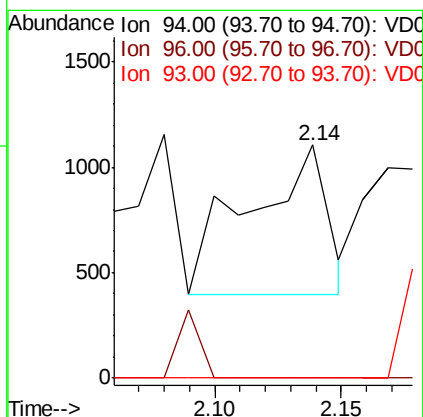
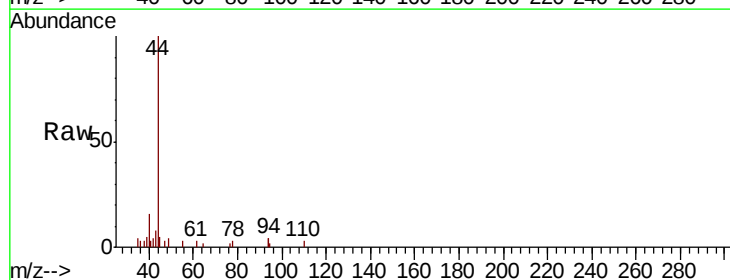
Instrument :
MSVOA_D
ClientSampleId :

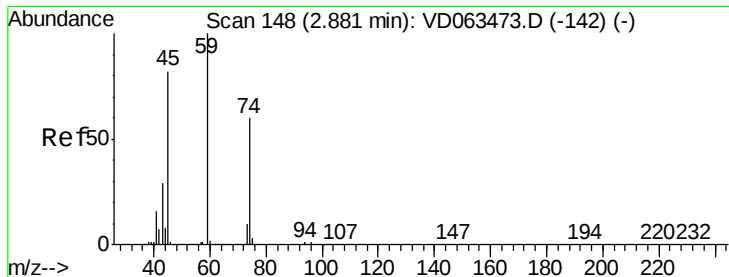
Tot Ion:168 Resp: 263703
Ion Ratio Lower Upper
168 100
99 62.8 46.7 70.1



#5
Bromomethane
Concen: 1.298 ug/l
RT: 2.14 min Scan# 72
Delta R.T. -0.02 min
Lab File: VD063545.D
Acq: 13 Aug 2019 23:26

Tgt Ion: 94 Resp: 1515
Ion Ratio Lower Upper
94 100
96 0.0 76.5 114.7#
93 0.0 15.8 23.8#





#8

Diethyl Ether

Concen: 3.779 ug/l

RT: 2.88 min Scan# 147

Delta R.T. -0.00 min

Lab File: VD063545.D

Acq: 13 Aug 2019 23:26

Instrument :

MSVOA_D

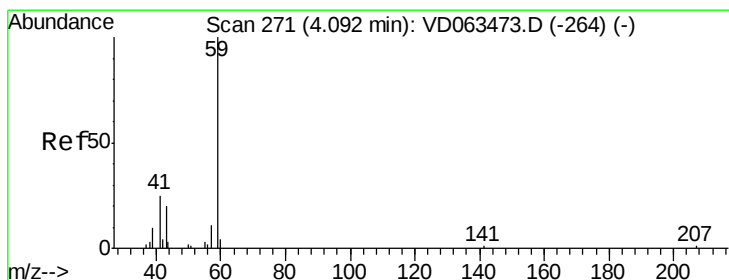
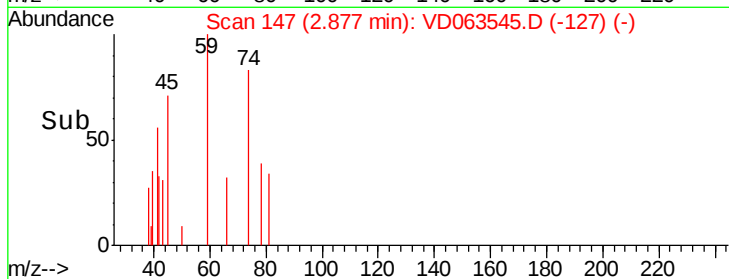
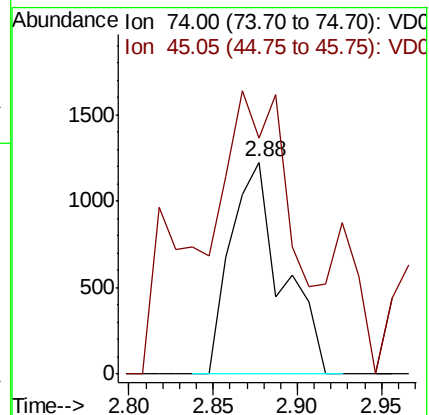
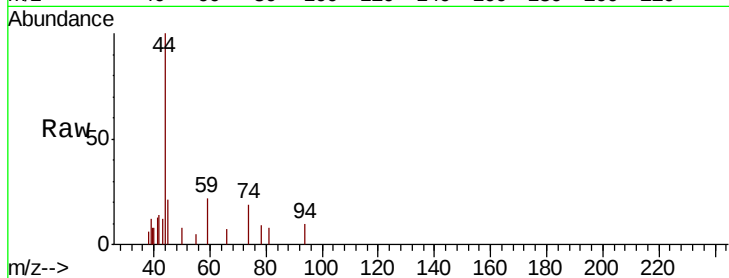
ClientSampleId :

Tot Ion: 74 Resp: 2590

Ion Ratio Lower Upper

74 100

45 111.2 68.5 205.5



#11

Tert butyl alcohol

Concen: 2.429 ug/l

RT: 4.10 min Scan# 271

Delta R.T. 0.01 min

Lab File: VD063545.D

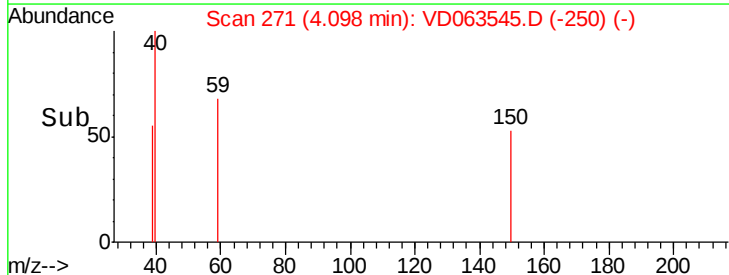
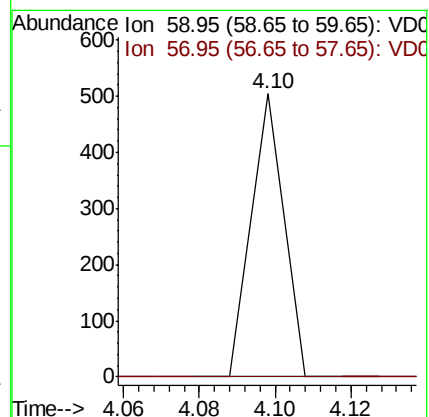
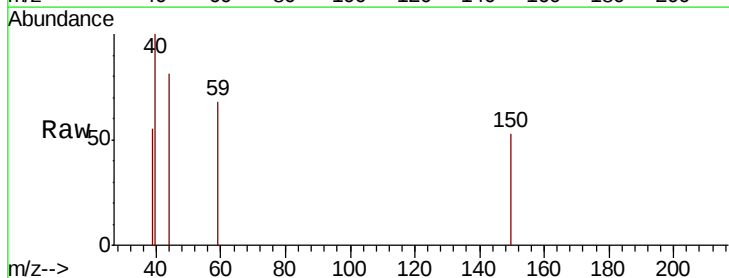
Acq: 13 Aug 2019 23:26

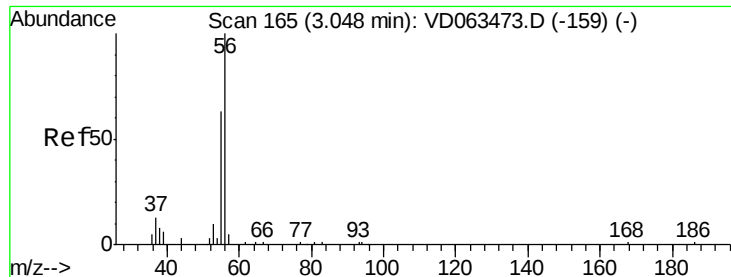
Tgt Ion: 59 Resp: 298

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#





#13

Acrolein

Concen: 1.797 ug/l

RT: 3.09 min Scan# 169

Delta R.T. 0.05 min

Lab File: VD063545.D

Acq: 13 Aug 2019 23:26

Instrument :

MSVOA_D

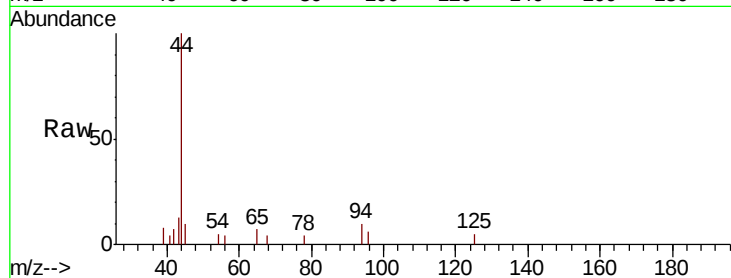
ClientSampleId :

Tot Ion: 56 Resp: 217

Ion Ratio Lower Upper

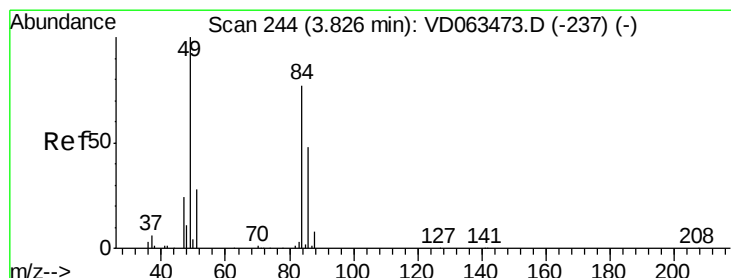
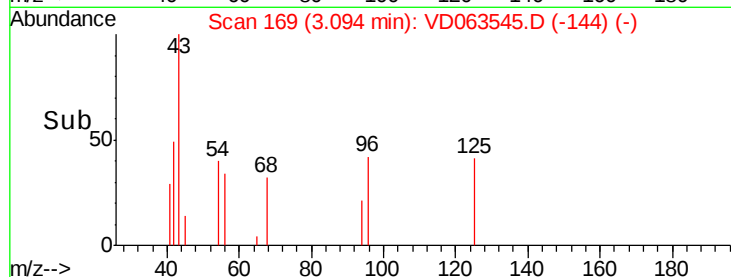
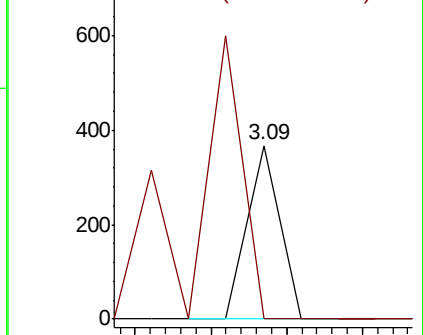
56 100

55 0.0 51.3 76.9#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#20

Methylene Chloride

Concen: 7.294 ug/l

RT: 3.82 min Scan# 243

Delta R.T. -0.00 min

Lab File: VD063545.D

Acq: 13 Aug 2019 23:26

Tgt Ion: 84 Resp: 18072

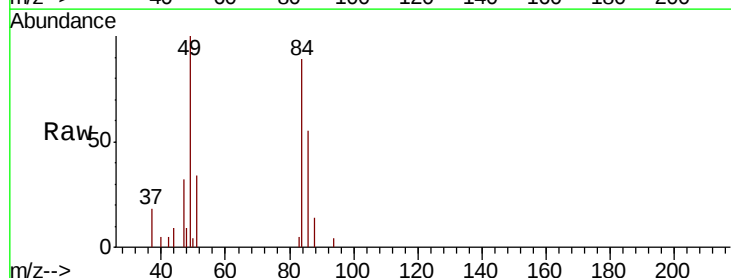
Ion Ratio Lower Upper

84 100

49 112.9 103.4 155.2

51 37.8 28.5 42.7

86 62.4 49.4 74.2

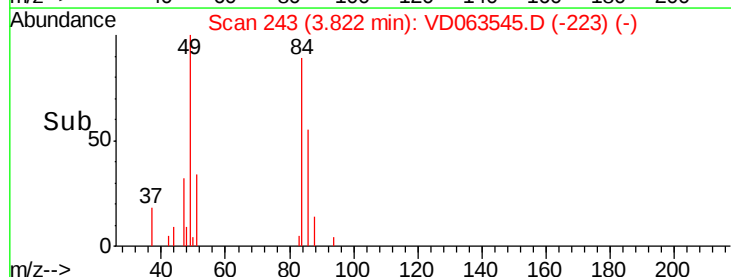
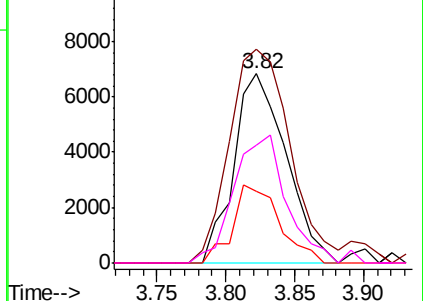


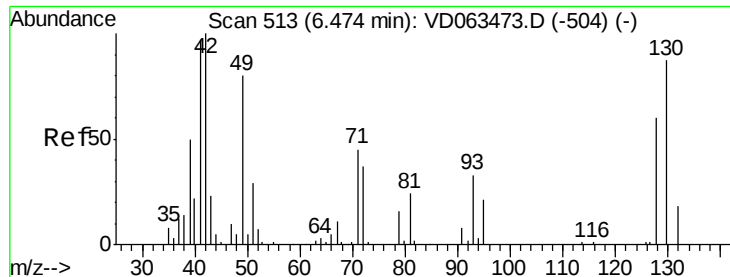
Abundance Ion 83.95 (83.65 to 84.65): VDC

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

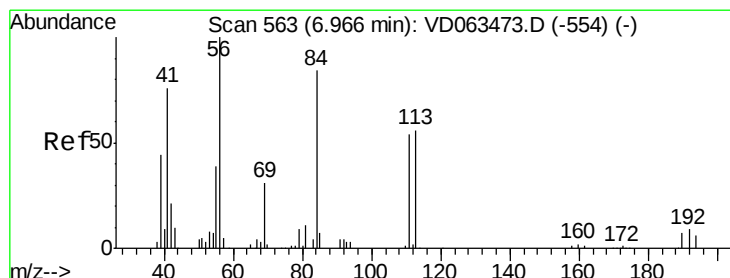
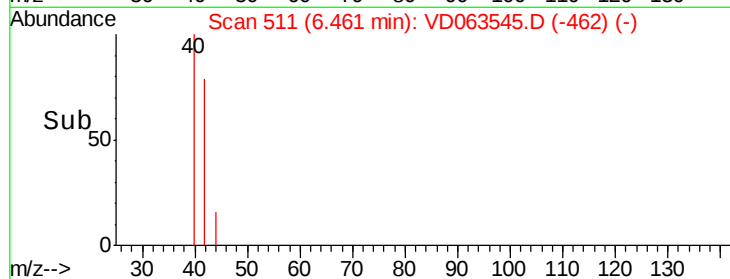
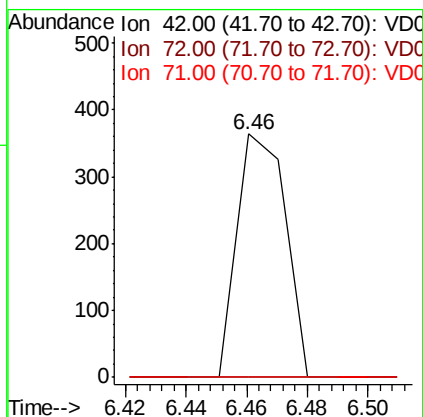
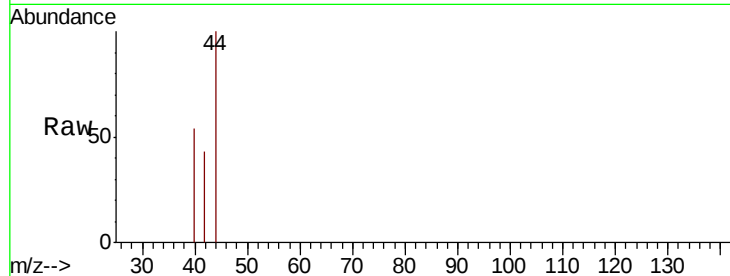




#29
Tetrahydrofuran
Concen: 1.547 ug/l
RT: 6.46 min Scan# 511
Delta R.T. -0.01 min
Lab File: VD063545.D
Acq: 13 Aug 2019 23:26

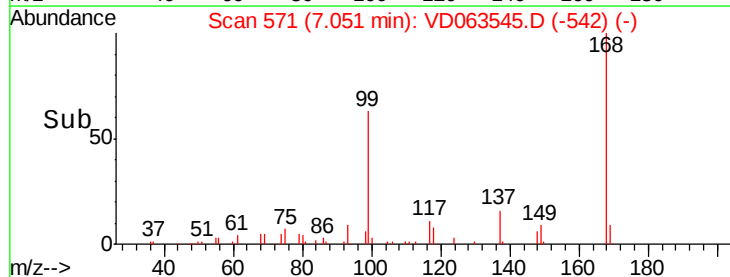
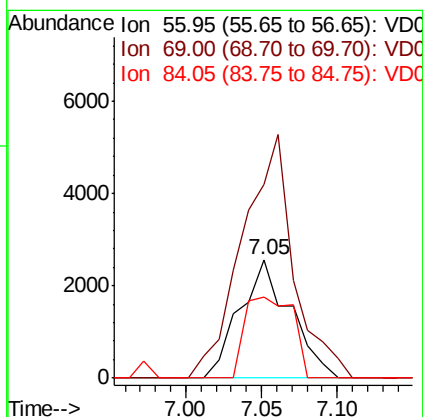
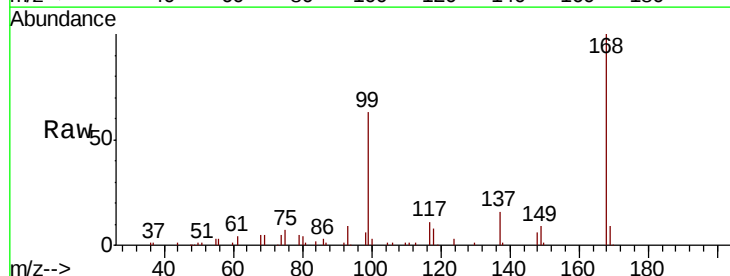
Instrument :
MSVOA_D
ClientSampleId :

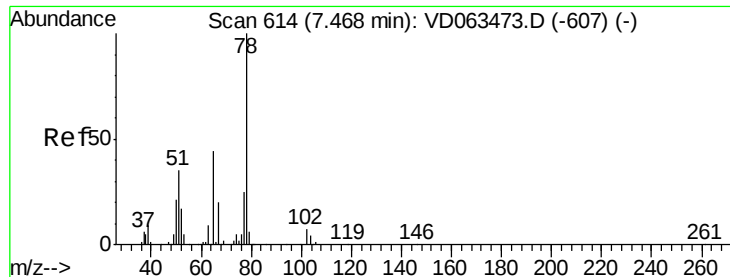
Tot Ion: 42 Resp: 408
Ion Ratio Lower Upper
42 100
72 0.0 31.5 47.3#
71 0.0 33.8 50.8#



#31
Cyclohexane
Concen: 2.355 ug/l
RT: 7.05 min Scan# 571
Delta R.T. 0.08 min
Lab File: VD063545.D
Acq: 13 Aug 2019 23:26

Tgt Ion: 56 Resp: 5994
Ion Ratio Lower Upper
56 100
69 163.8 25.0 37.6#
84 68.0 69.7 104.5#





#33

1,2-Dichloroethane-d4

Concen: 81.480 ug/l

RT: 7.46 min Scan# 613

Delta R.T. -0.00 min

Lab File: VD063545.D

Acq: 13 Aug 2019 23:26

Instrument :

MSVOA_D

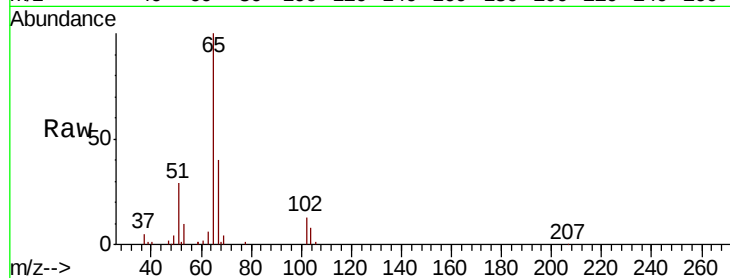
ClientSampleId :

Tot Ion: 65 Resp: 229674

Ion Ratio Lower Upper

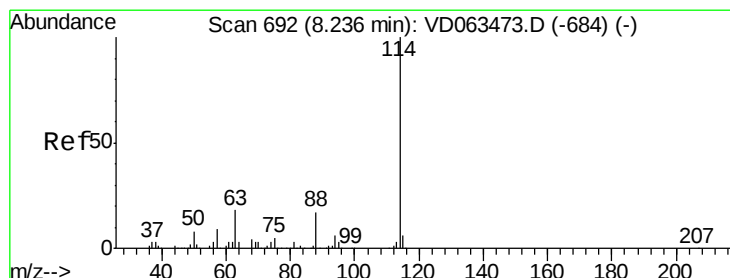
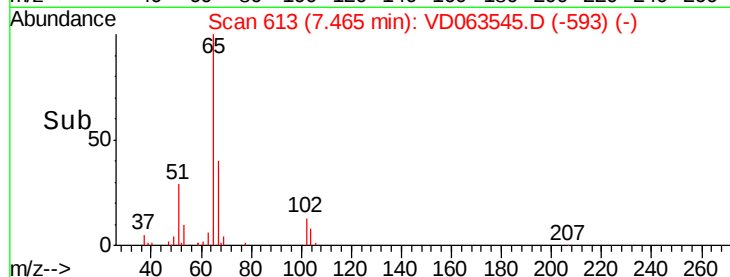
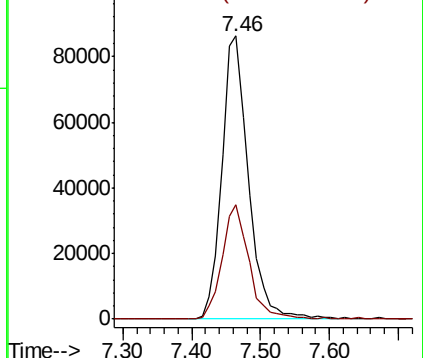
65 100

67 40.4 0.0 89.2



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: 8.22 min Scan# 690

Delta R.T. -0.01 min

Lab File: VD063545.D

Acq: 13 Aug 2019 23:26

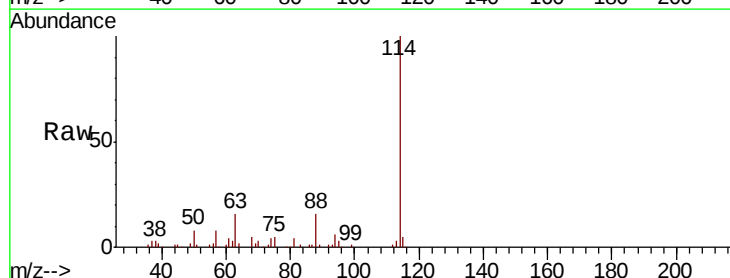
Tgt Ion: 114 Resp: 390096

Ion Ratio Lower Upper

114 100

63 16.5 0.0 36.2

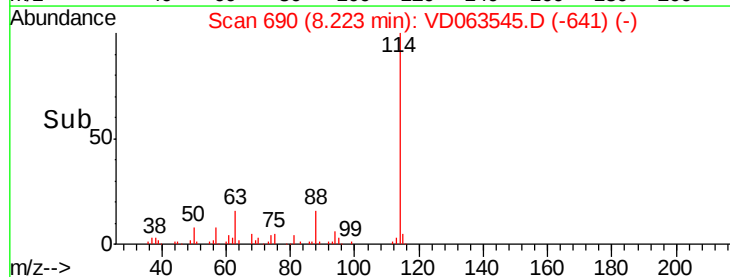
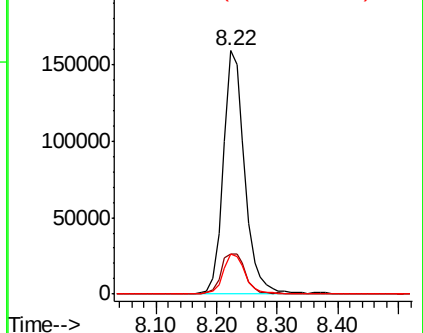
88 16.4 0.0 35.0

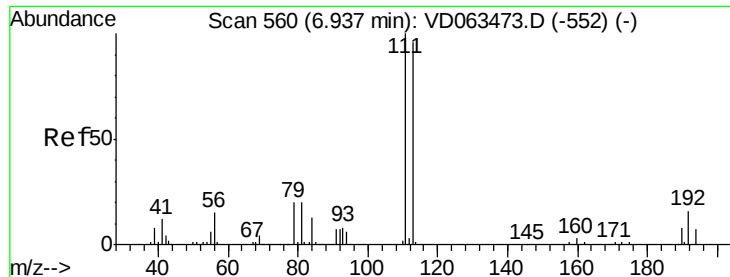


Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 75.965 ug/l

RT: 6.93 min Scan# 559

Delta R.T. -0.00 min

Lab File: VD063545.D

Acq: 13 Aug 2019 23:26

Instrument :

MSVOA_D

ClientSampleId :

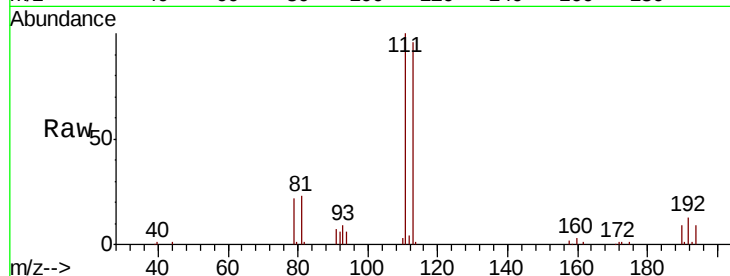
Tot Ion:113 Resp: 249576

Ion Ratio Lower Upper

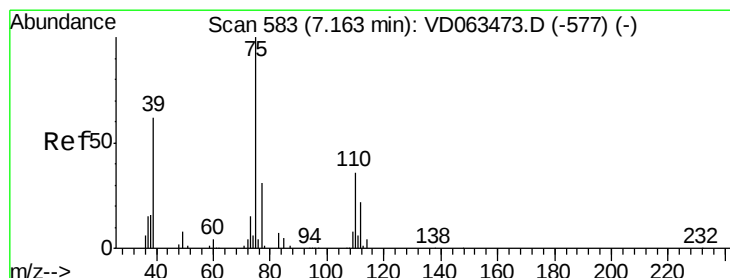
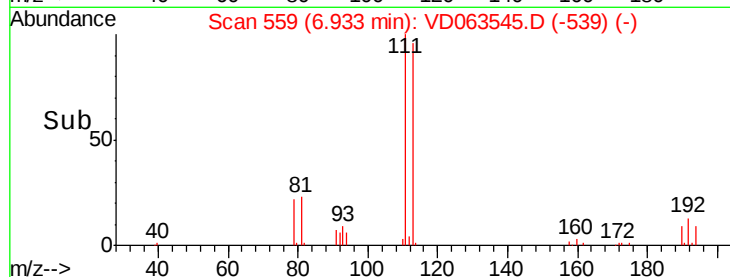
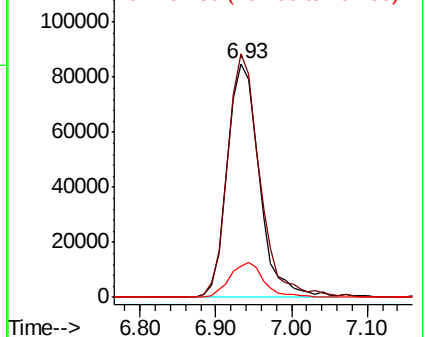
113 100

111 104.3 83.1 124.7

192 13.3 13.1 19.7



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: 5.603 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.10 min

Lab File: VD063545.D

Acq: 13 Aug 2019 23:26

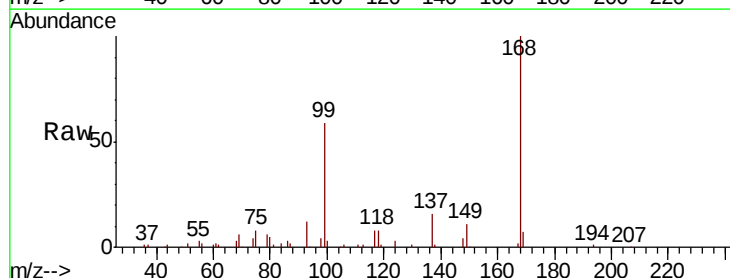
Tgt Ion: 75 Resp: 19323

Ion Ratio Lower Upper

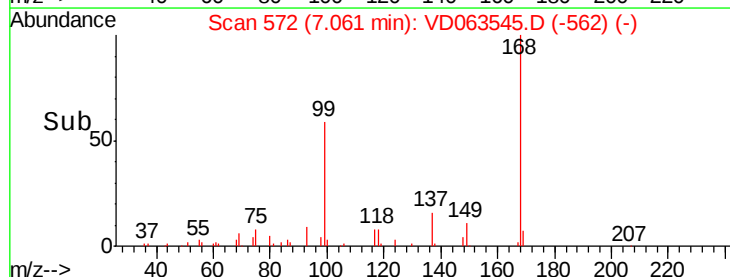
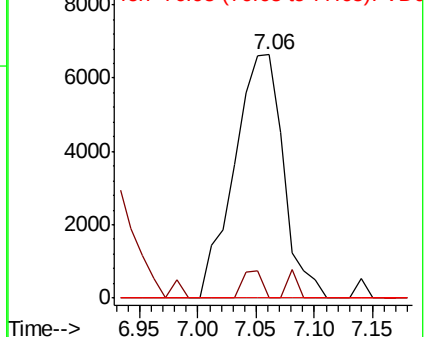
75 100

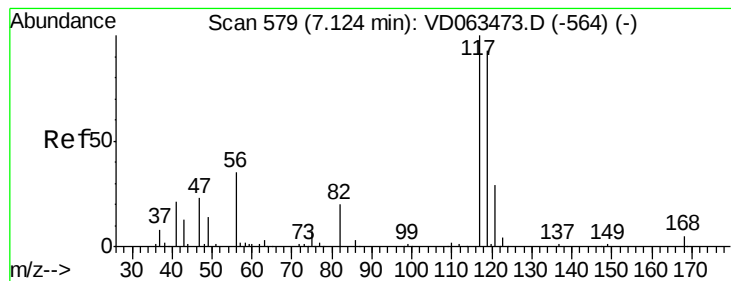
110 0.0 17.6 52.8#

77 0.0 24.3 36.5#



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: 4.729 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.07 min

Lab File: VD063545.D

Acq: 13 Aug 2019 23:26

Instrument :

MSVOA_D

ClientSampleId :

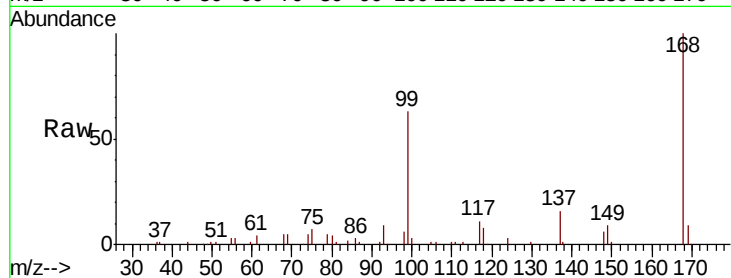
Tot Ion:117 Resp: 24579

Ion Ratio Lower Upper

117 100

119 3.5 74.2 111.2#

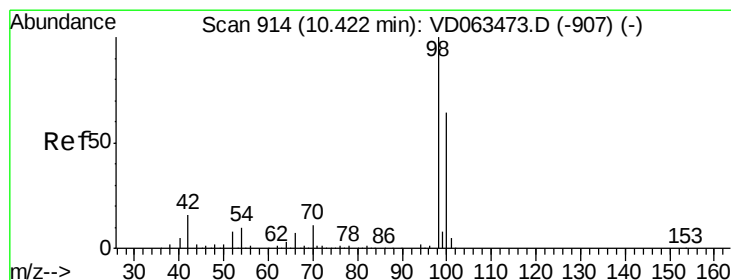
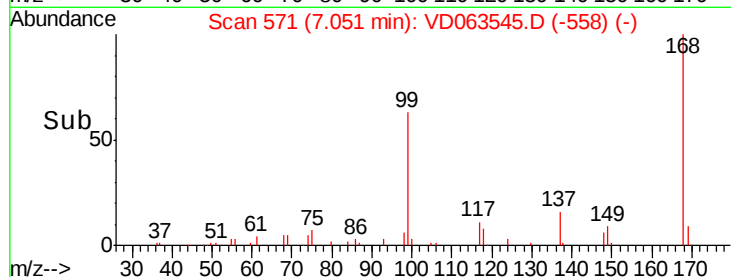
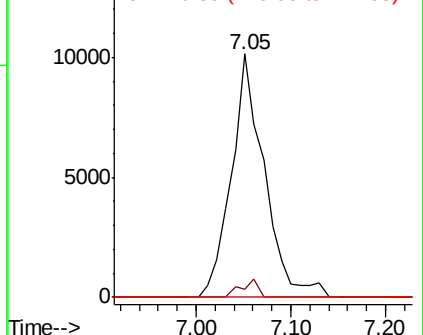
121 0.0 23.1 34.7#



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: 31.797 ug/l

RT: 10.42 min Scan# 913

Delta R.T. -0.00 min

Lab File: VD063545.D

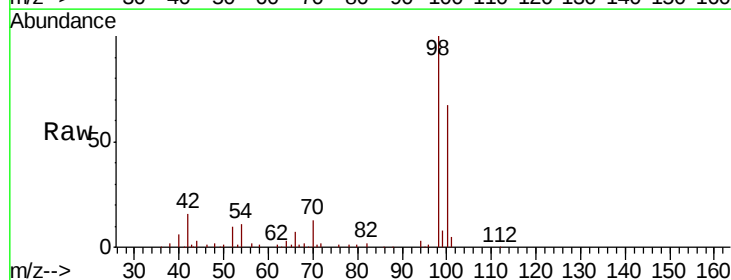
Acq: 13 Aug 2019 23:26

Tgt Ion: 98 Resp: 229673

Ion Ratio Lower Upper

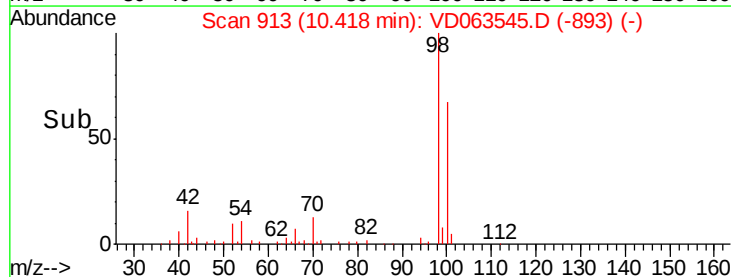
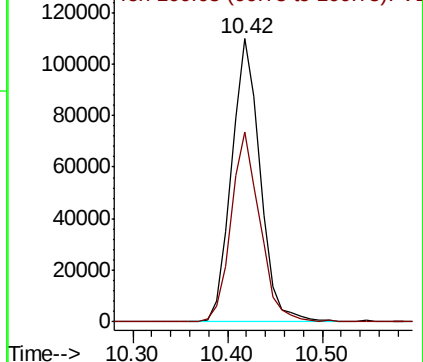
98 100

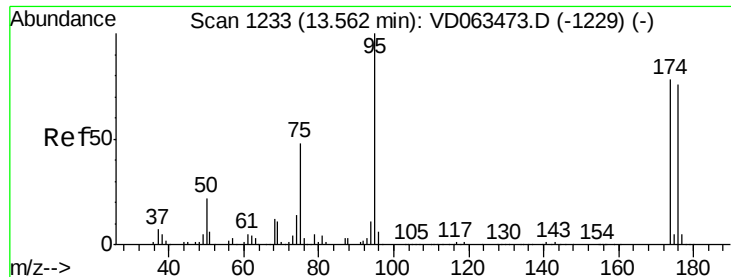
100 67.3 51.7 77.5



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V

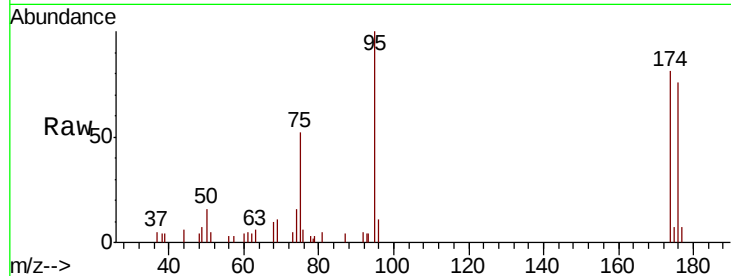




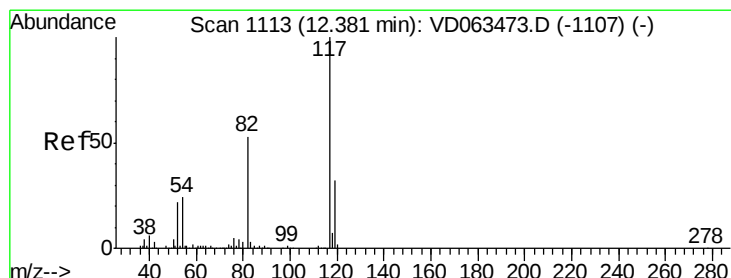
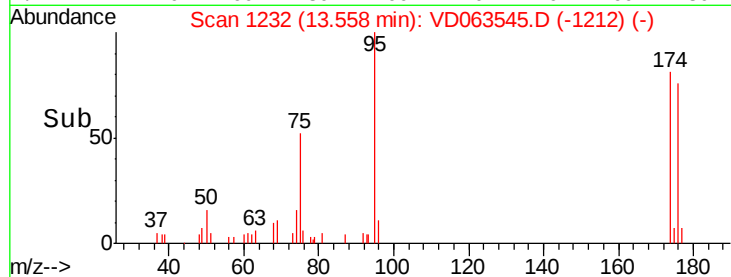
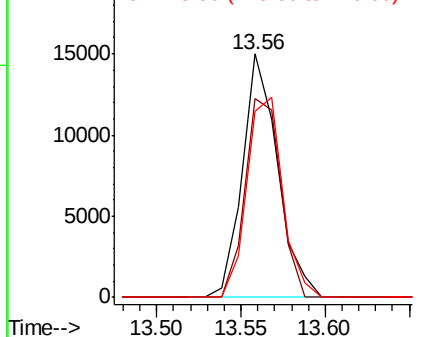
#62
4-Bromofluorobenzene
Concen: 6.635 ug/l
RT: 13.56 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VD063545.D
Acq: 13 Aug 2019 23:26

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 95 Resp: 21721
Ion Ratio Lower Upper
95 100
174 81.5 0.0 155.4
176 76.2 0.0 152.4

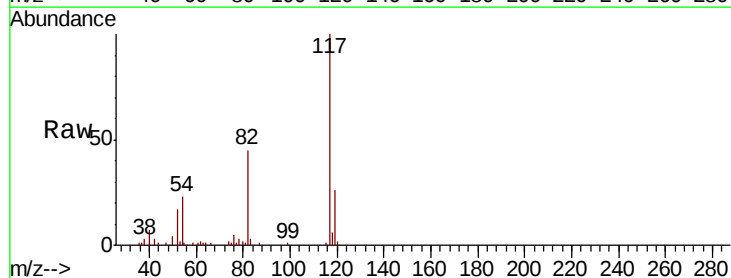


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

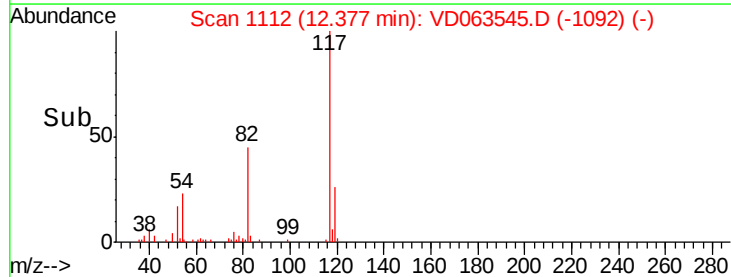
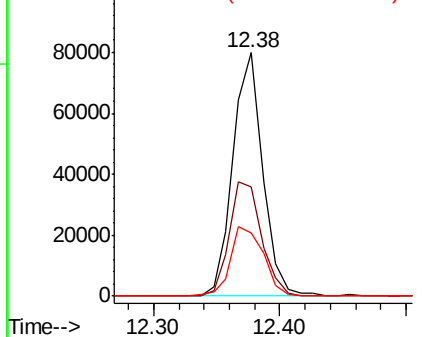


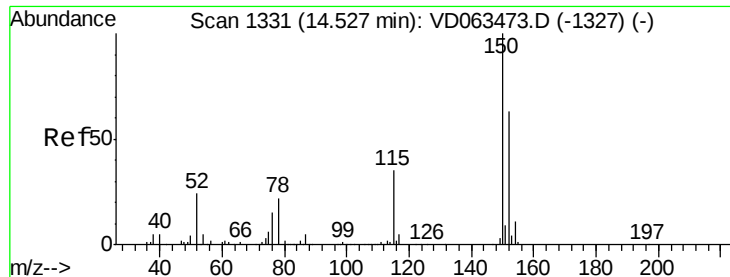
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VD063545.D
Acq: 13 Aug 2019 23:26

Tgt Ion: 117 Resp: 130871
Ion Ratio Lower Upper
117 100
82 45.0 42.0 63.0
119 26.0 25.4 38.0



Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VD063545.D

Acq: 13 Aug 2019 23:26

Instrument :

MSVOA_D

ClientSampleId :

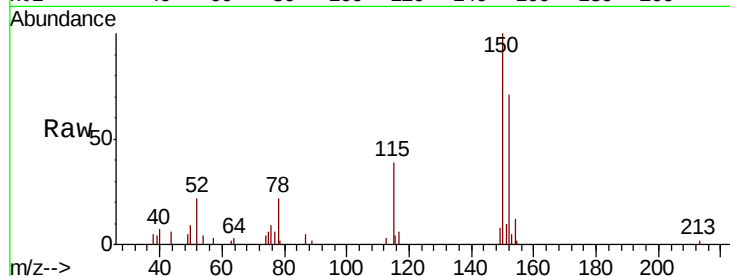
Tot Ion:152 Resp: 11390

Ion Ratio Lower Upper

152 100

115 61.2 30.9 92.7

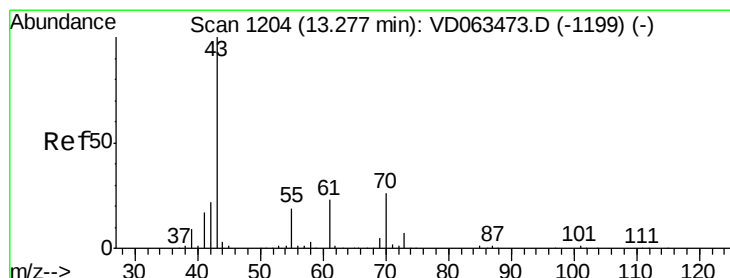
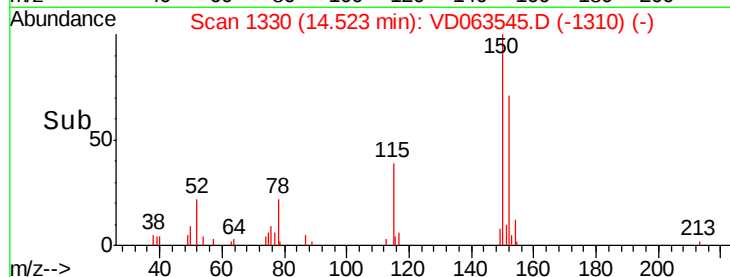
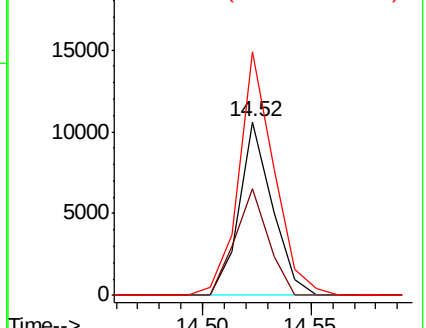
150 140.2 0.0 318.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 2.029 ug/l

RT: 13.24 min Scan# 1200

Delta R.T. -0.03 min

Lab File: VD063545.D

Acq: 13 Aug 2019 23:26

Tgt Ion: 43 Resp: 369

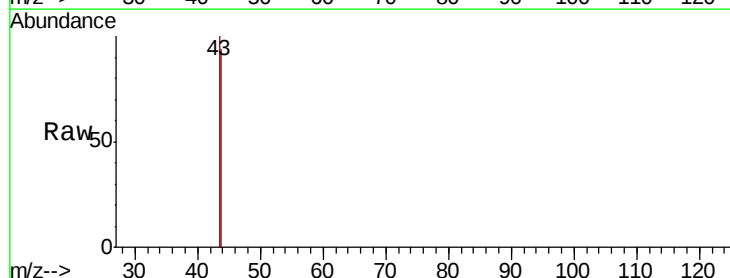
Ion Ratio Lower Upper

43 100

70 0.0 21.1 31.7#

55 0.0 15.4 23.0#

61 0.0 18.2 27.2#

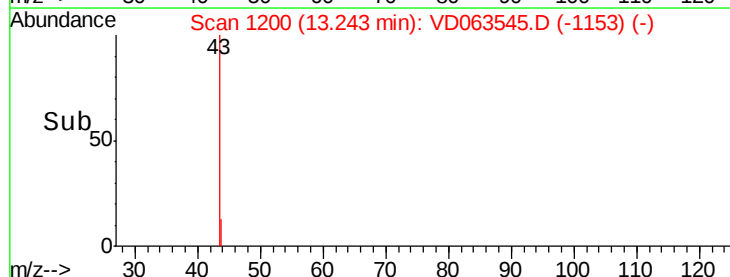
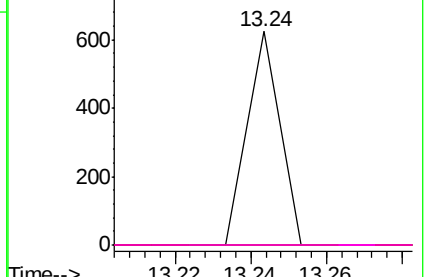


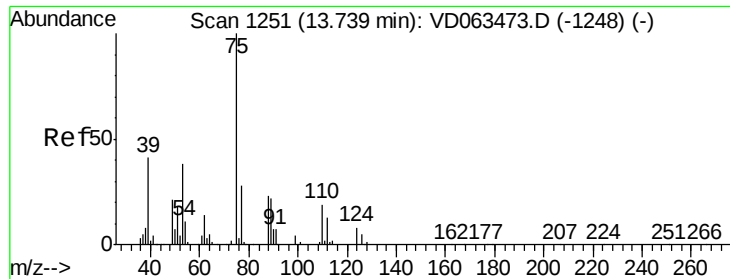
Abundance Ion 42.95 (42.65 to 43.65): VDC

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





#76

1,2,3-Trichloropropane

Concen: 1.997 ug/l

RT: 13.77 min Scan# 1253

Delta R.T. 0.03 min

Lab File: VD063545.D

Acq: 13 Aug 2019 23:26

Instrument :

MSVOA_D

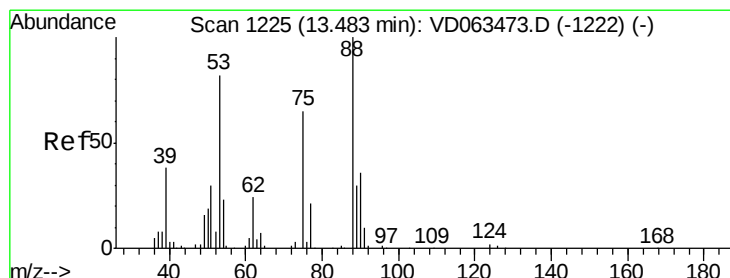
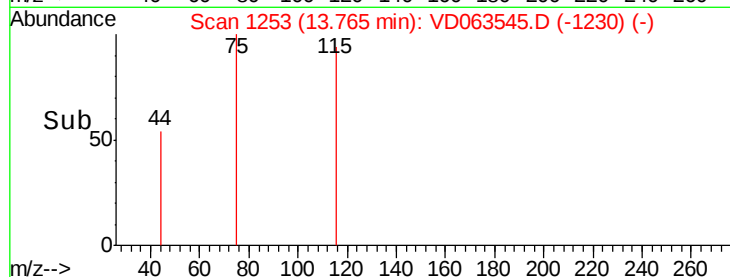
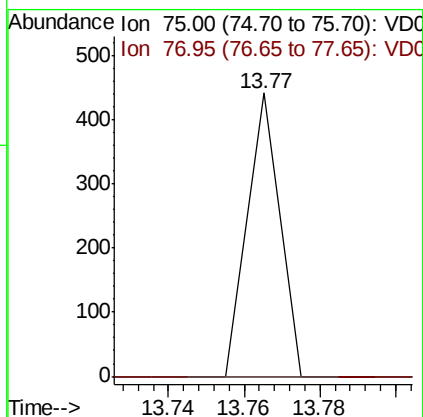
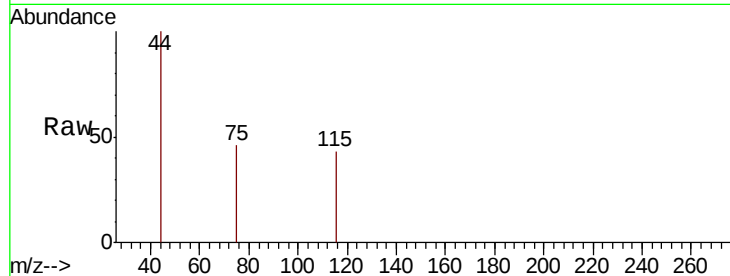
ClientSampleId :

Tot Ion: 75 Resp: 261

Ion Ratio Lower Upper

75 100

77 0.0 15.1 45.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 292.737 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD063545.D

Acq: 13 Aug 2019 23:26

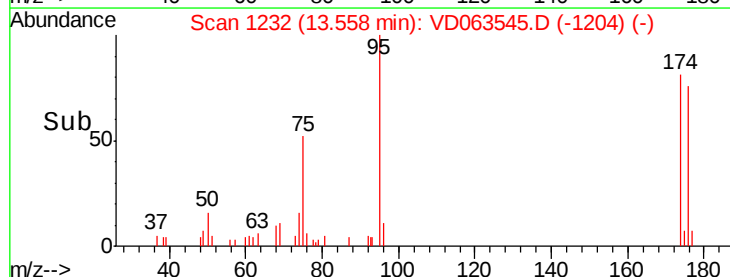
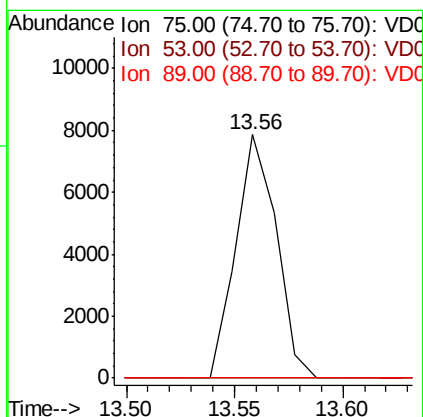
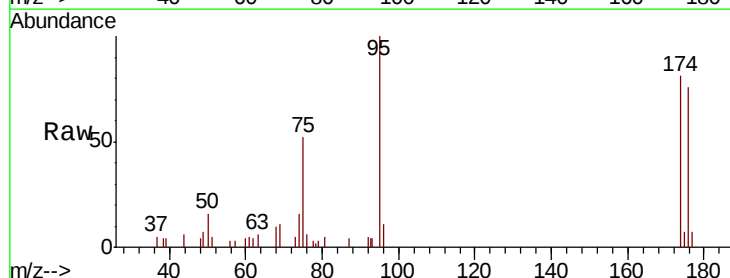
Tgt Ion: 75 Resp: 10285

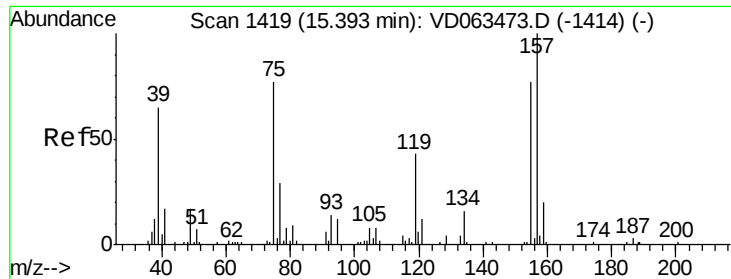
Ion Ratio Lower Upper

75 100

53 0.0 101.0 151.4#

89 0.0 37.0 55.6#

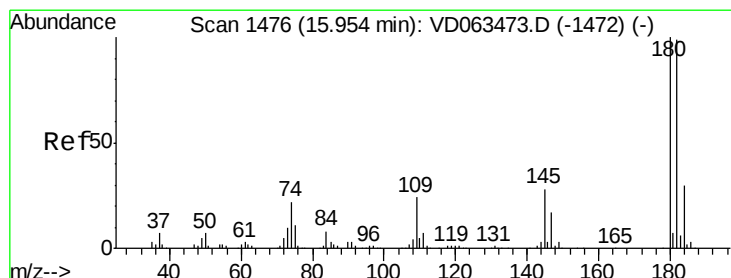
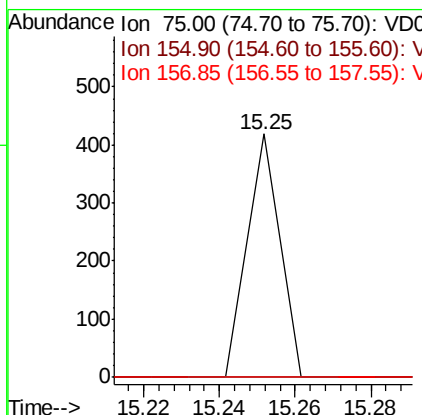
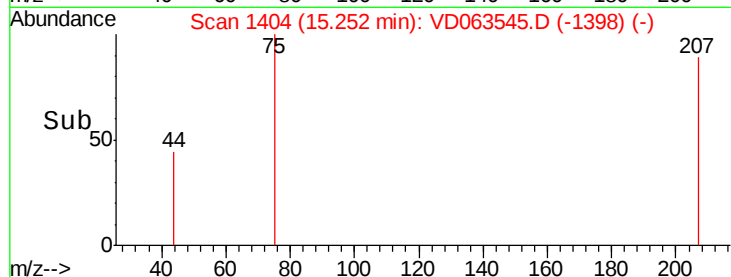
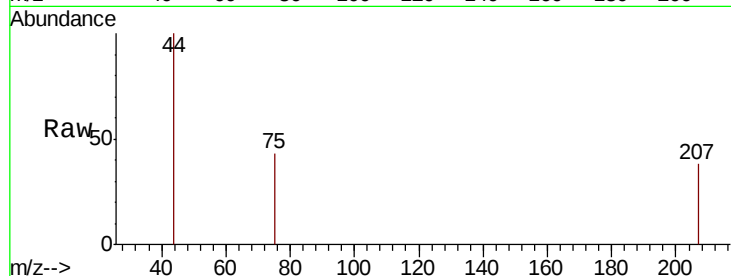




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 10.953 ug/l
 RT: 15.25 min Scan# 1404
 Delta R.T. -0.14 min
 Lab File: VD063545.D
 Acq: 13 Aug 2019 23:26

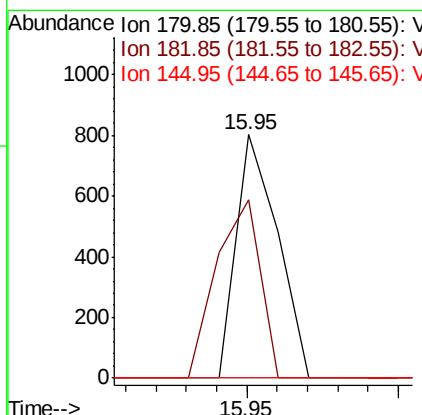
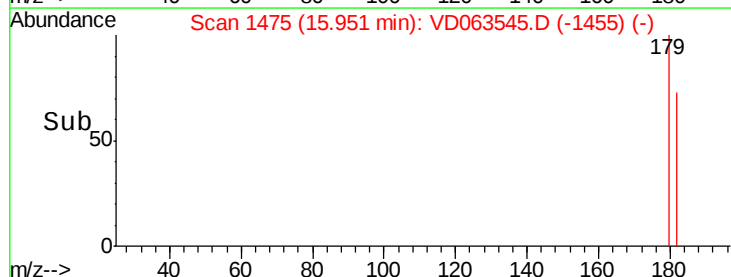
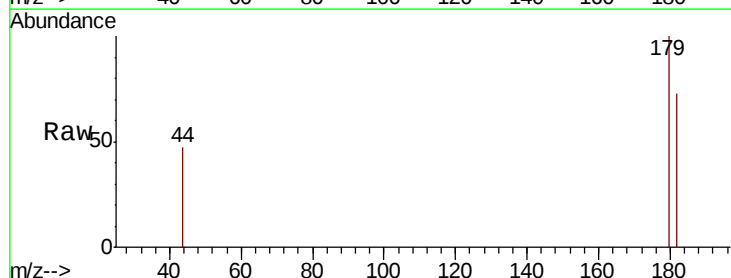
Instrument :
 MSVOA_D
 ClientSampled :

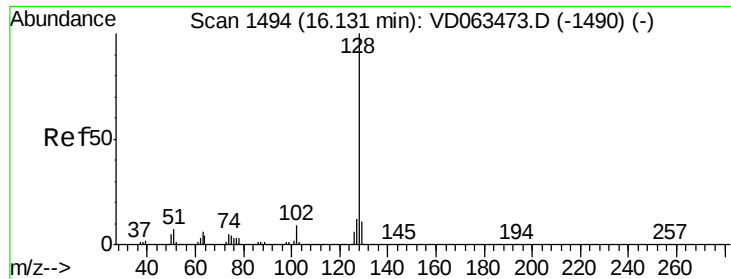
Tot Ion: 75 Resp: 248
 Ion Ratio Lower Upper
 75 100
 155 0.0 50.1 150.3#
 157 0.0 65.0 195.1#



#93
 1,2,4-Trichlorobenzene
 Concen: 3.395 ug/l
 RT: 15.95 min Scan# 1475
 Delta R.T. -0.00 min
 Lab File: VD063545.D
 Acq: 13 Aug 2019 23:26

Tgt Ion: 180 Resp: 759
 Ion Ratio Lower Upper
 180 100
 182 73.3 49.7 149.1
 145 0.0 14.1 42.2#





#95

Naphthalene

Concen: 2.234 ug/l

RT: 16.13 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VD063545.D

Acq: 13 Aug 2019 23:26

Instrument :

MSVOA_D

ClientSampleId :

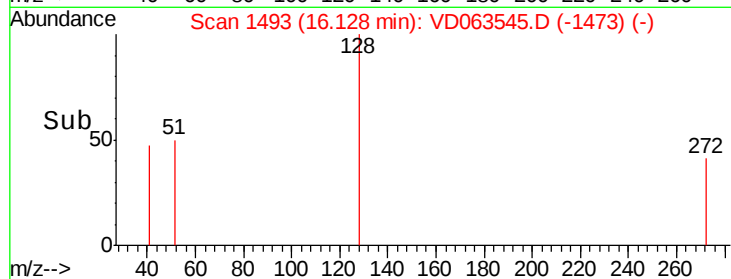
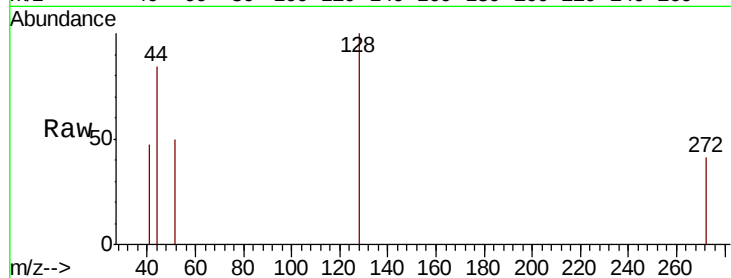
Tot Ion:128 Resp: 757

Ion Ratio Lower Upper

128 100

127 0.0 9.4 14.0#

129 0.0 8.5 12.7#



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

