

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD121719\
 Data File : VD064541.D
 Acq On : 17 Dec 2019 13:15
 Operator : VA/SY
 Sample : K6324-01
 Misc : 6.16G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 EP-9

Quant Time: Dec 18 00:47:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 29 07:18:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	13301	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	21332	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	22732	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	12584	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	9254	76.86	ug/l	0.00
Spiked Amount			Recovery	=	153.72%	
35) Dibromofluoromethane	7.92	113	7789	57.95	ug/l	0.00
Spiked Amount			Recovery	=	115.90%	
50) Toluene-d8	10.34	98	25332	50.04	ug/l	0.00
Spiked Amount			Recovery	=	100.08%	
62) 4-Bromofluorobenzene	12.64	95	11273	69.29	ug/l	0.00
Spiked Amount			Recovery	=	138.58%	

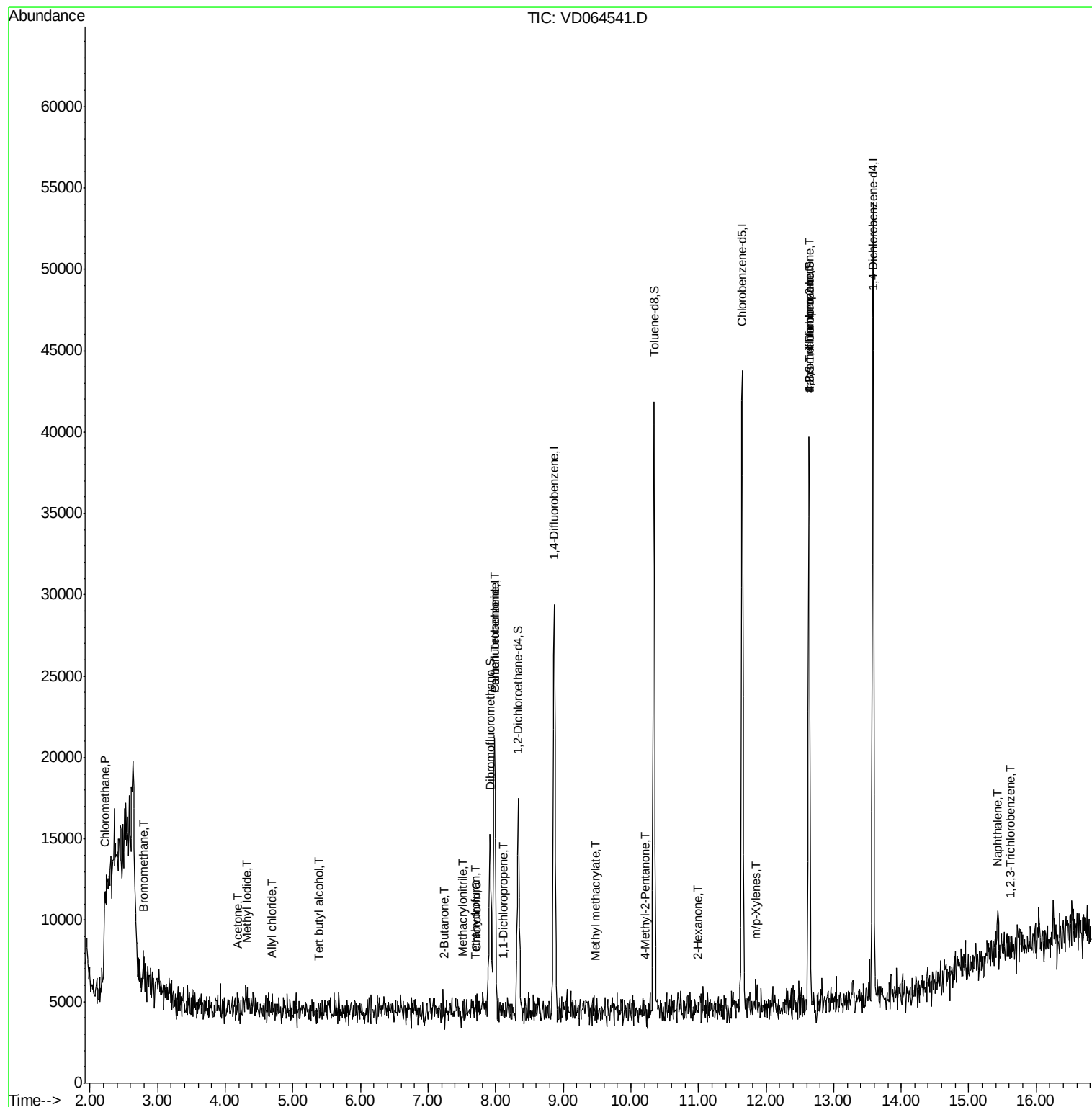
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	808	5.315	ug/l #	41
5) Bromomethane	2.80	94	1250	9.631	ug/l	92
10) Methyl Iodide	4.33	142	1207	9.136	ug/l #	86
11) Tert butyl alcohol	5.39	59	88	11.483	ug/l #	100
14) Allyl chloride	4.69	41	228	1.219	ug/l #	19
16) Acetone	4.19	43	182	7.481	ug/l #	47
20) Methylene Chloride	4.97	84	63	Below Cal	#	5
25) 2-Butanone	7.23	43	114	3.313	ug/l #	49
29) Tetrahydrofuran	7.70	42	114	5.208	ug/l #	33
30) Chloroform	7.71	83	269	1.169	ug/l	98
31) Cyclohexane	7.99	56	376	Below Cal	#	15
36) 1,1-Dichloropropene	8.11	75	248	1.229	ug/l #	40
38) Carbon Tetrachloride	7.98	117	1461	6.861	ug/l #	11
41) Methacrylonitrile	7.51	41	58	1.181	ug/l #	1
48) Methyl methacrylate	9.47	41	158	2.051	ug/l #	21
51) 4-Methyl-2-Pentanone	10.21	43	111	1.333	ug/l #	37
59) 2-Hexanone	10.98	43	173	2.993	ug/l #	26
68) m/p-Xylenes	11.86	106	617	1.918	ug/l #	59
76) 1,2,3-Trichloropropane	12.64	75	5566	53.785	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	5566	117.279	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.72	75	57	Below Cal	#	1
95) Naphthalene	15.42	128	1850	3.993	ug/l #	85
96) 1,2,3-Trichlorobenzene	15.61	180	280	1.181	ug/l #	55

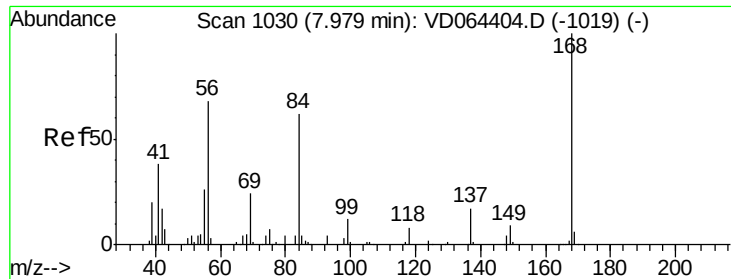
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Nov 29 07:18:03 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VD064541.D

Acq: 17 Dec 2019 13:15

Instrument :

MSVOA_D

ClientSampleId :

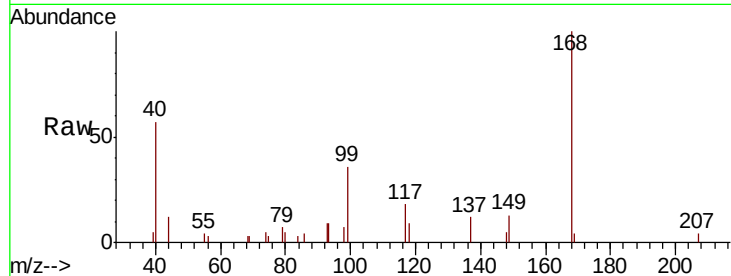
EP-9

Tgt Ion:168 Resp: 13301

Ion Ratio Lower Upper

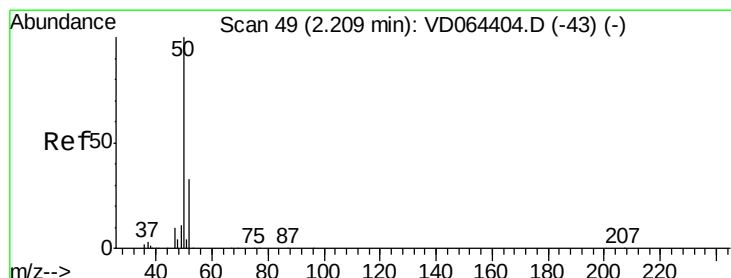
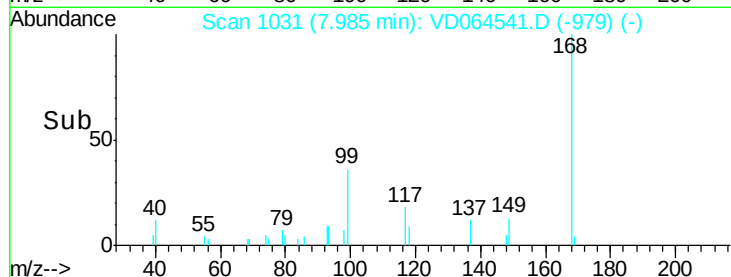
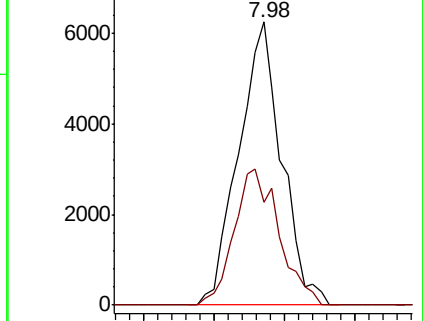
168 100

99 36.5 40.7 61.1#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: 5.315 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD064541.D

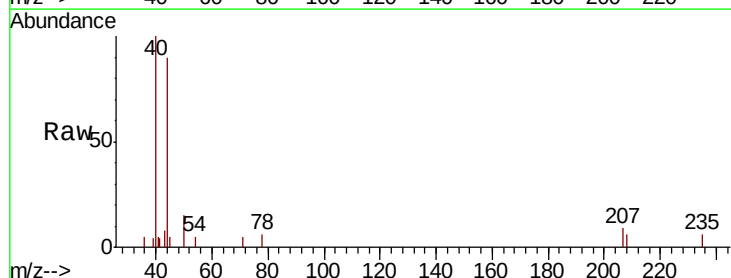
Acq: 17 Dec 2019 13:15

Tgt Ion: 50 Resp: 808

Ion Ratio Lower Upper

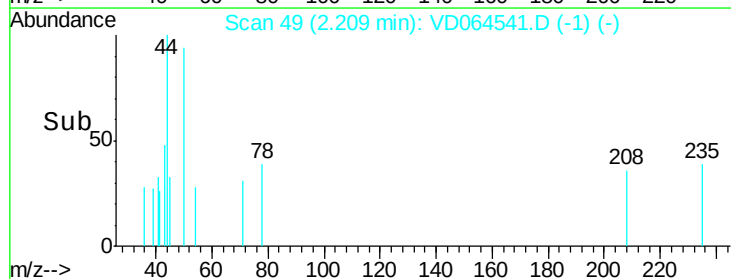
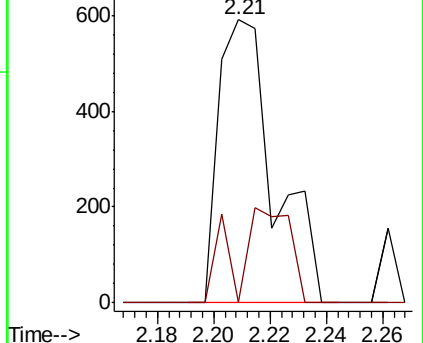
50 100

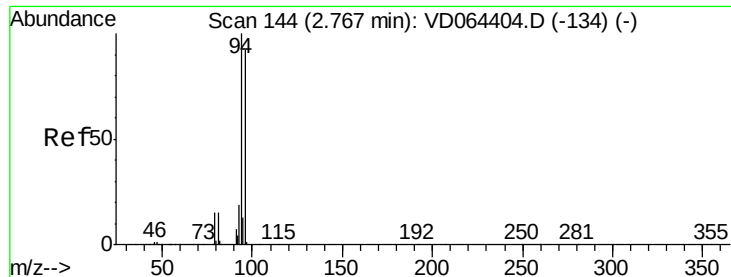
52 0.0 26.7 40.1#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 9.631 ug/l

RT: 2.80 min Scan# 149

Delta R.T. 0.03 min

Lab File: VD064541.D

Acq: 17 Dec 2019 13:15

Instrument :

MSVOA_D

ClientSampleId :

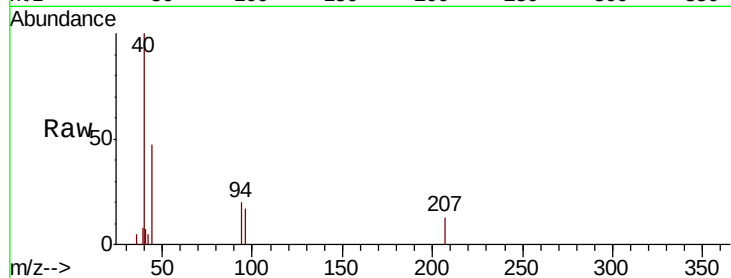
EP-9

Tgt Ion: 94 Resp: 1250

Ion Ratio Lower Upper

94 100

96 84.7 73.6 110.4



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.80

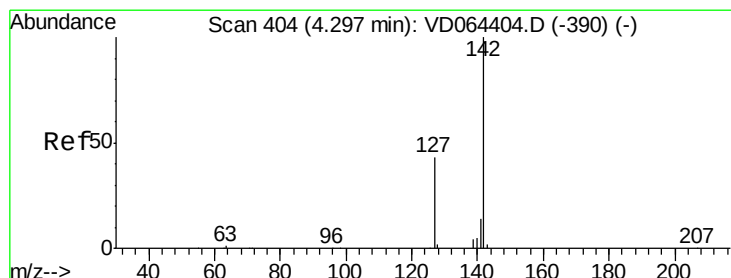
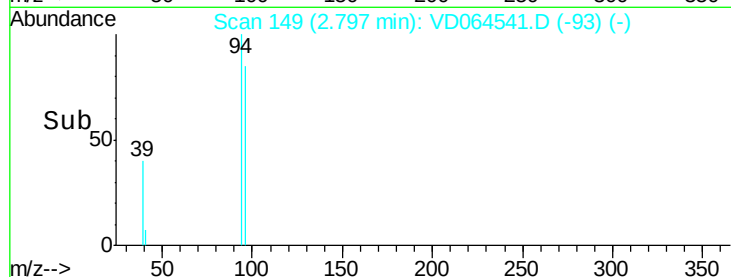
600

400

200

0

Time-->



#10

Methyl Iodide

Concen: 9.136 ug/l

RT: 4.33 min Scan# 409

Delta R.T. 0.03 min

Lab File: VD064541.D

Acq: 17 Dec 2019 13:15

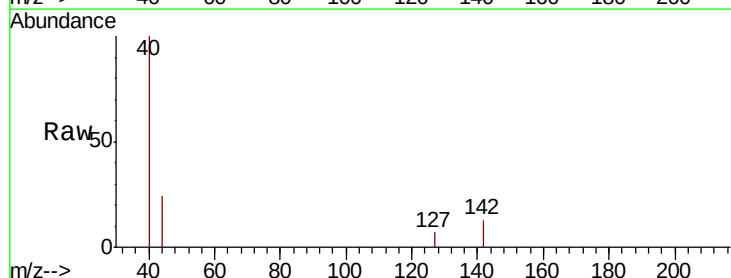
Tgt Ion: 142 Resp: 1207

Ion Ratio Lower Upper

142 100

127 48.2 35.3 52.9

141 0.0 11.6 17.4#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

4.33

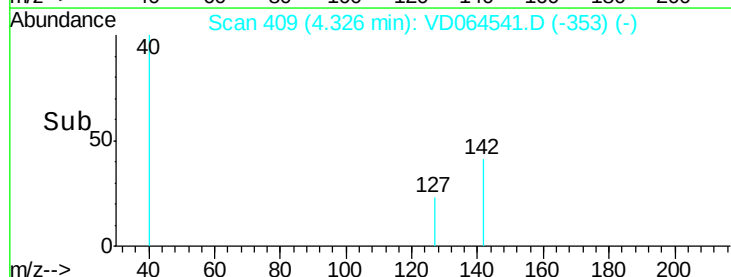
600

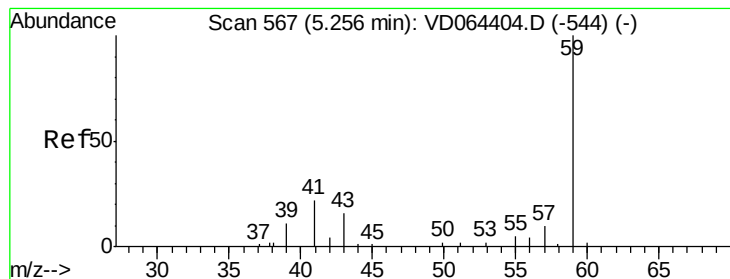
400

200

0

Time-->





#11

Tert butyl alcohol

Concen: 11.483 ug/l

RT: 5.39 min Scan# 590

Delta R.T. 0.14 min

Lab File: VD064541.D

Acq: 17 Dec 2019 13:15

Instrument :

MSVOA_D

ClientSampled :

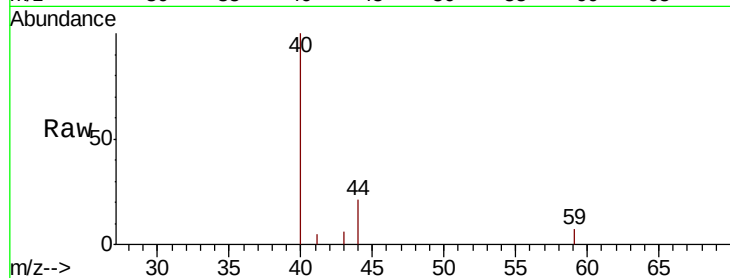
EP-9

Tgt Ion: 59 Resp: 88

Ion Ratio Lower Upper

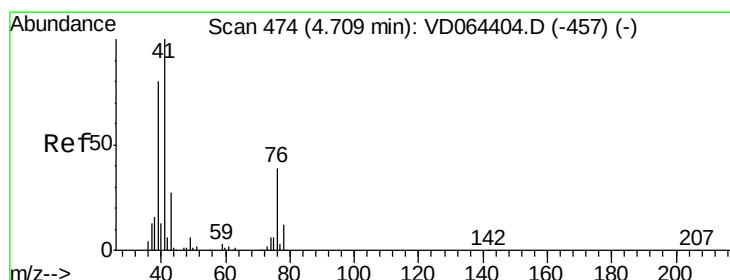
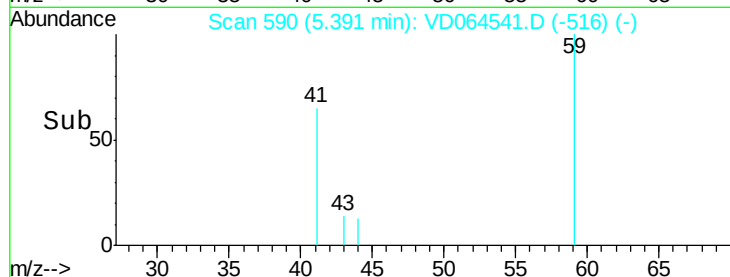
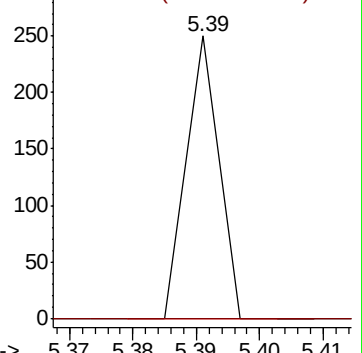
59 100

57 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC



#14

Allyl chloride

Concen: 1.219 ug/l

RT: 4.69 min Scan# 470

Delta R.T. -0.02 min

Lab File: VD064541.D

Acq: 17 Dec 2019 13:15

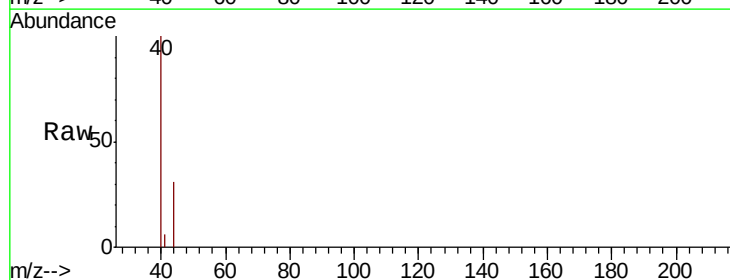
Tgt Ion: 41 Resp: 228

Ion Ratio Lower Upper

41 100

39 0.0 62.1 93.1#

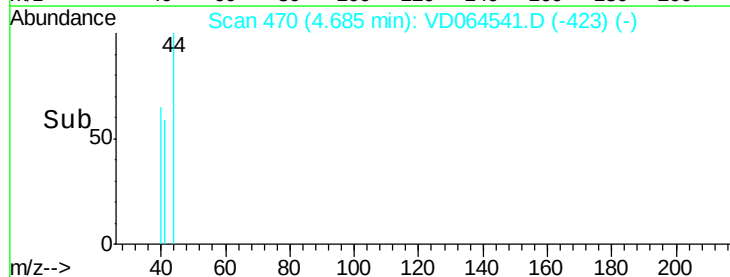
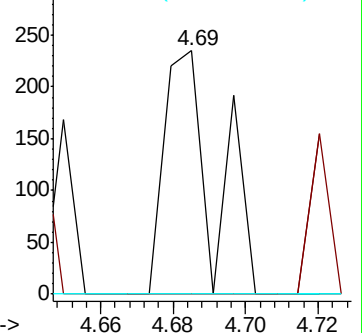
76 0.0 29.8 44.8#

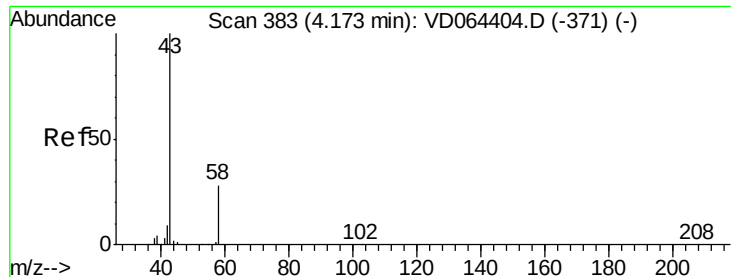


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC





#16

Acetone

Concen: 7.481 ug/l

RT: 4.19 min Scan# 385

Delta R.T. 0.01 min

Lab File: VD064541.D

Acq: 17 Dec 2019 13:15

Instrument :

MSVOA_D

ClientSampleId :

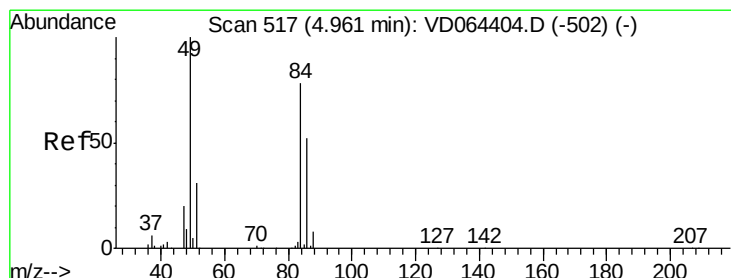
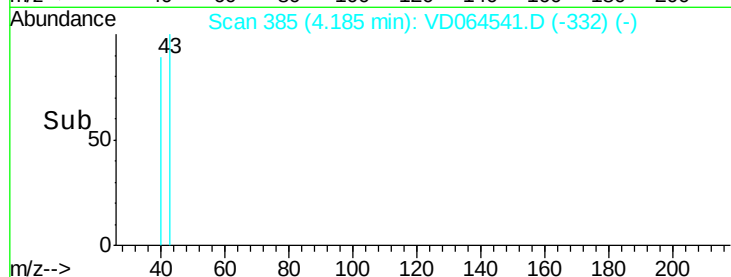
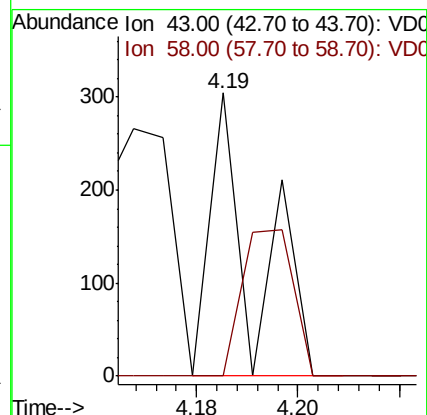
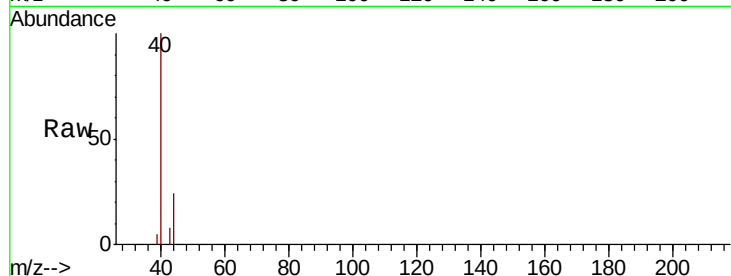
EP-9

Tgt Ion: 43 Resp: 182

Ion Ratio Lower Upper

43 100

58 0.0 22.6 33.8#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD064541.D

Acq: 17 Dec 2019 13:15

Tgt Ion: 84 Resp: 63

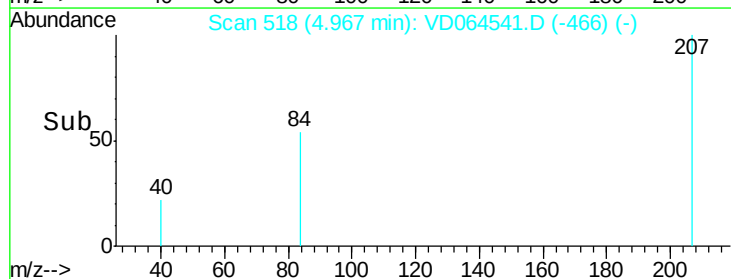
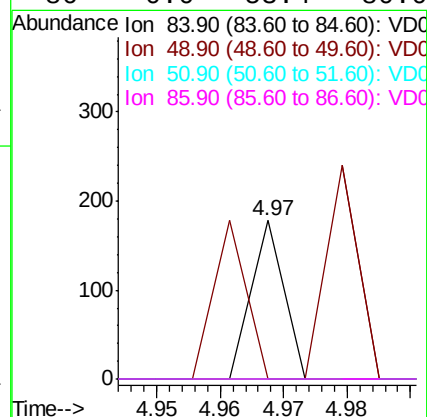
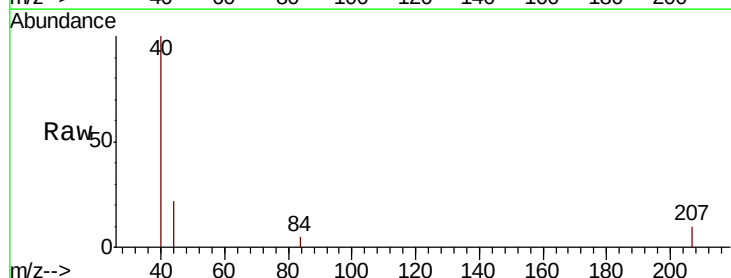
Ion Ratio Lower Upper

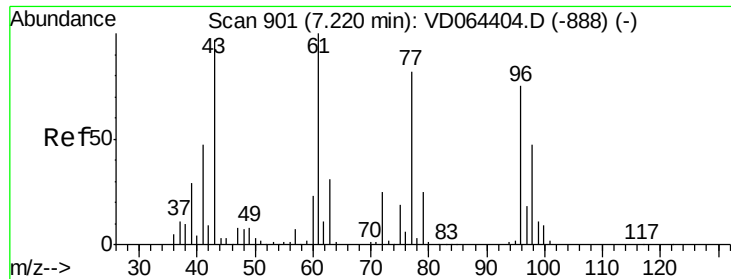
84 100

49 0.0 102.6 153.8#

51 0.0 32.0 48.0#

86 0.0 53.4 80.0#

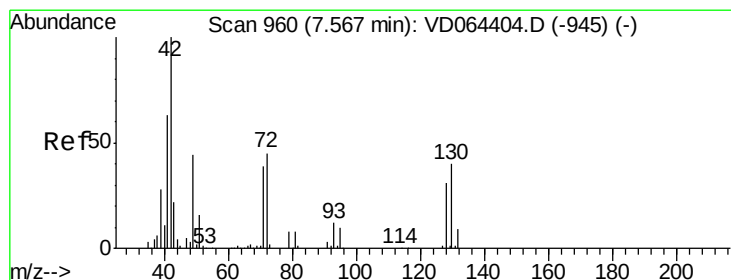
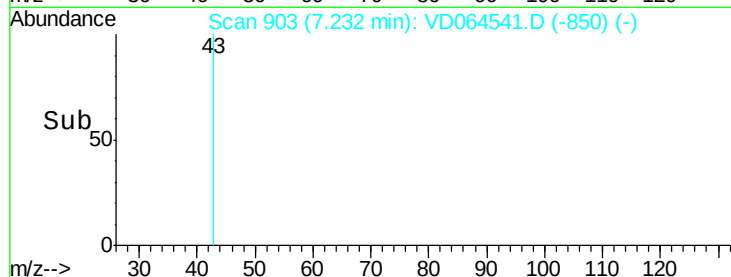
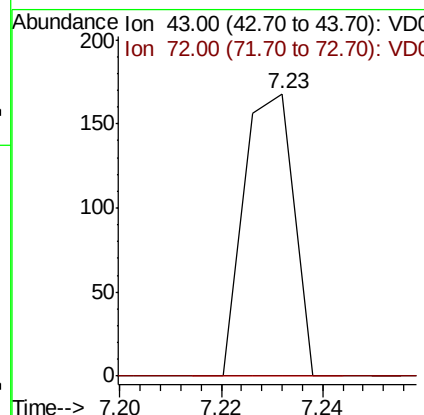
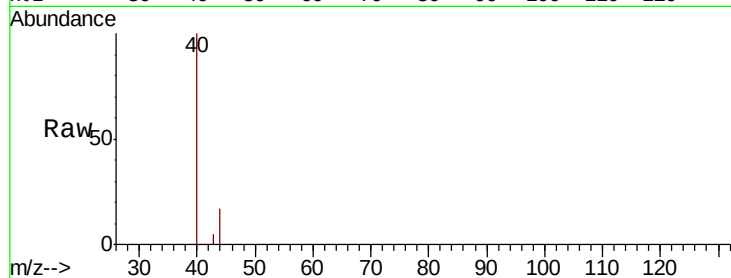




#25
 2-Butanone
 Concen: 3.313 ug/l
 RT: 7.23 min Scan# 903
 Delta R.T. 0.01 min
 Lab File: VD064541.D
 Acq: 17 Dec 2019 13:15

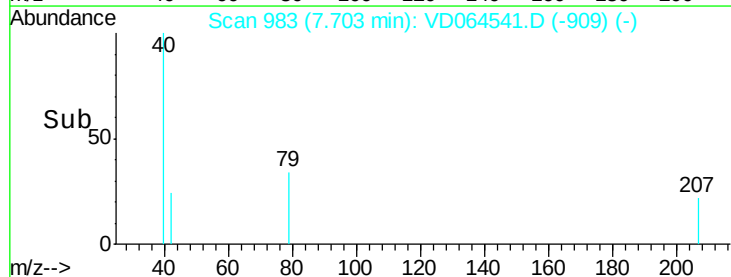
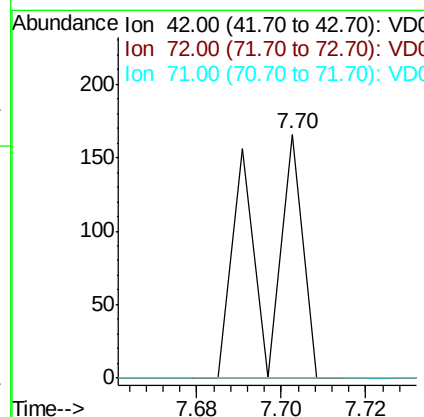
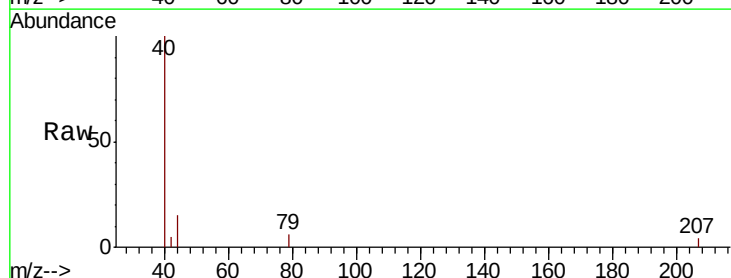
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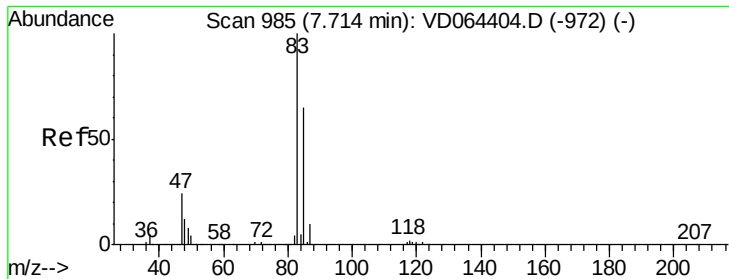
Tgt Ion: 43 Resp: 114
 Ion Ratio Lower Upper
 43 100
 72 0.0 21.0 31.4#



#29
 Tetrahydrofuran
 Concen: 5.208 ug/l
 RT: 7.70 min Scan# 983
 Delta R.T. 0.14 min
 Lab File: VD064541.D
 Acq: 17 Dec 2019 13:15

Tgt Ion: 42 Resp: 114
 Ion Ratio Lower Upper
 42 100
 72 0.0 35.8 53.8#
 71 0.0 32.7 49.1#

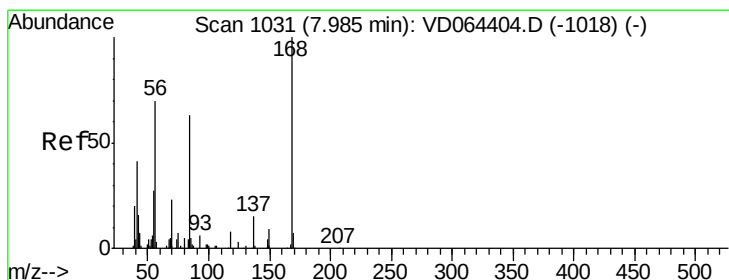
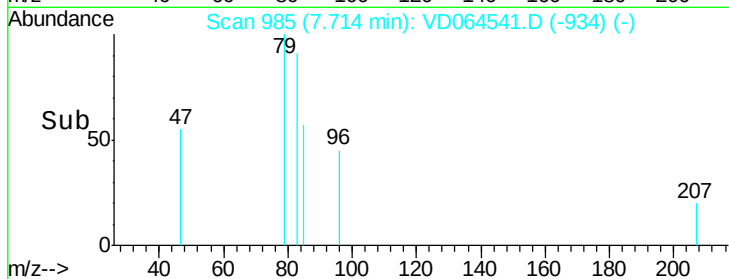
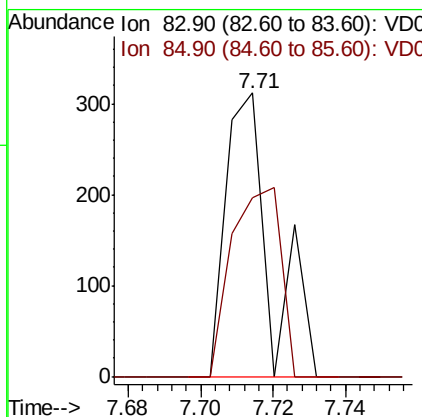
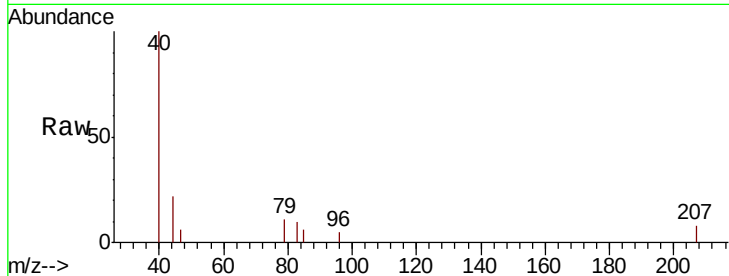




#30
Chloroform
Concen: 1.169 ug/l
RT: 7.71 min Scan# 985
Delta R.T. 0.00 min
Lab File: VD064541.D
Acq: 17 Dec 2019 13:15

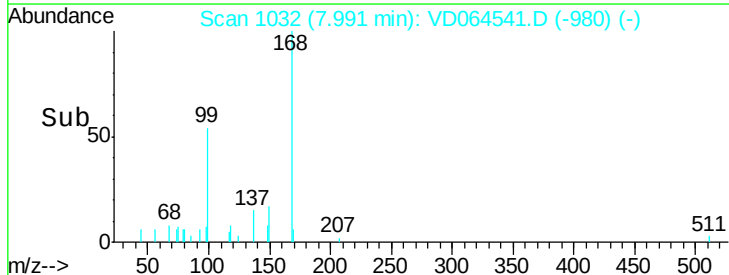
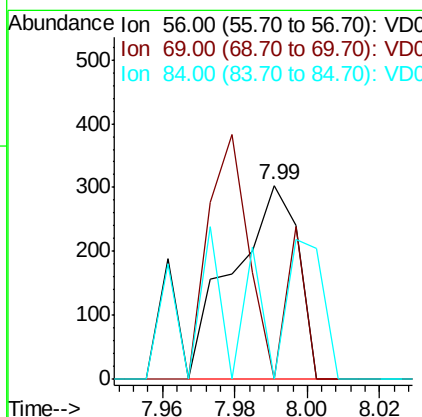
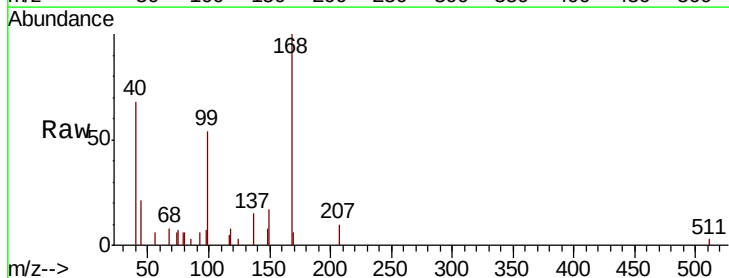
Instrument :
MSVOA_D
ClientSampled :
EP-9

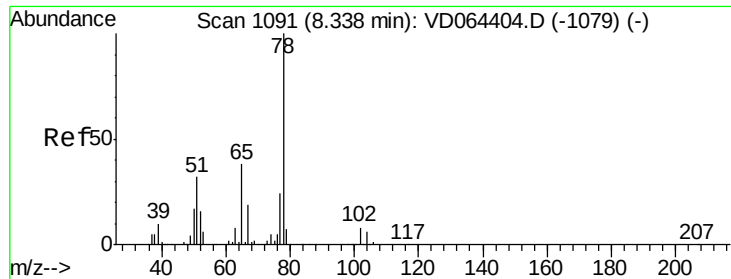
Tgt Ion: 83 Resp: 269
Ion Ratio Lower Upper
83 100
85 63.1 51.8 77.6



#31
Cyclohexane
Concen: Below Cal
RT: 7.99 min Scan# 1032
Delta R.T. 0.01 min
Lab File: VD064541.D
Acq: 17 Dec 2019 13:15

Tgt Ion: 56 Resp: 376
Ion Ratio Lower Upper
56 100
69 0.0 26.2 39.4#
84 0.0 70.3 105.5#

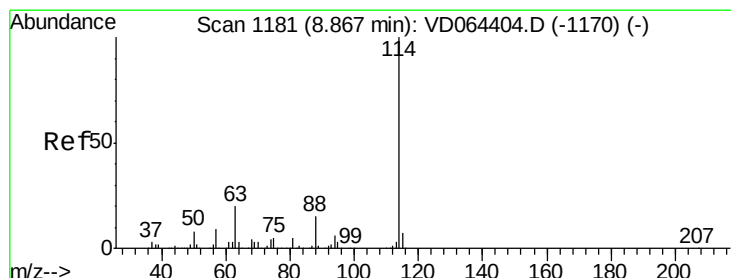
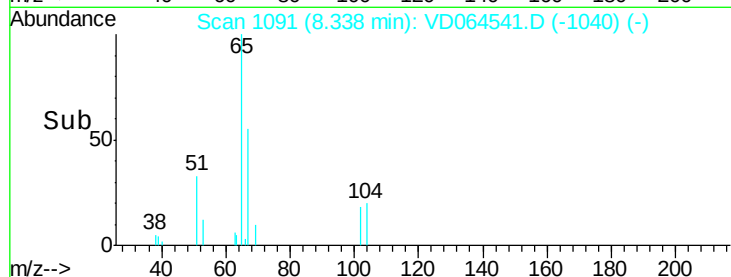
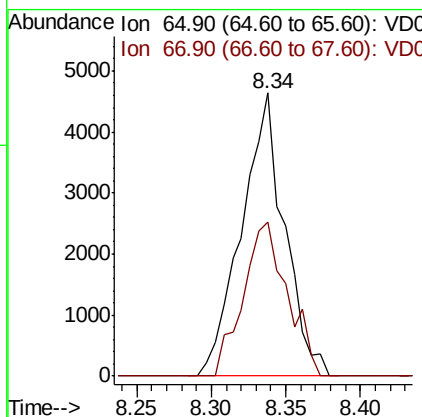
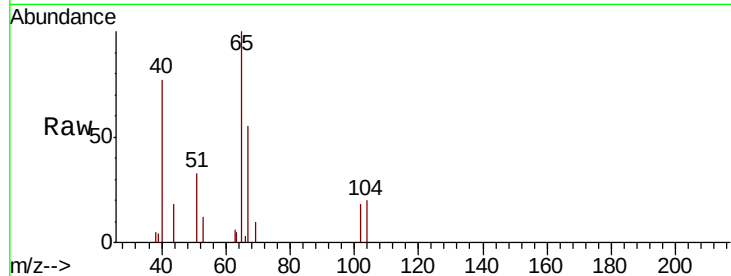




#33
 1,2-Dichloroethane-d4
 Concen: 76.865 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. 0.00 min
 Lab File: VD064541.D
 Acq: 17 Dec 2019 13:15

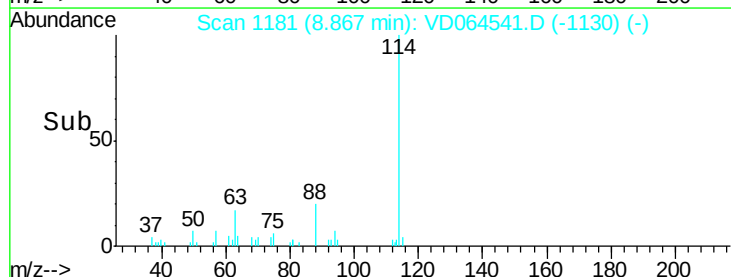
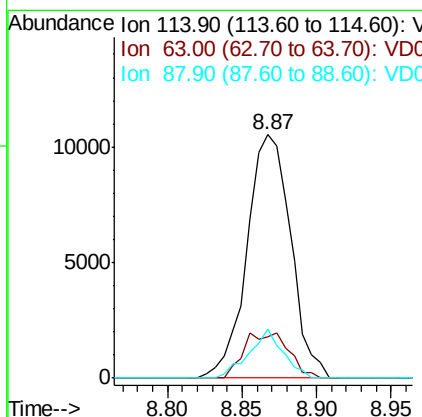
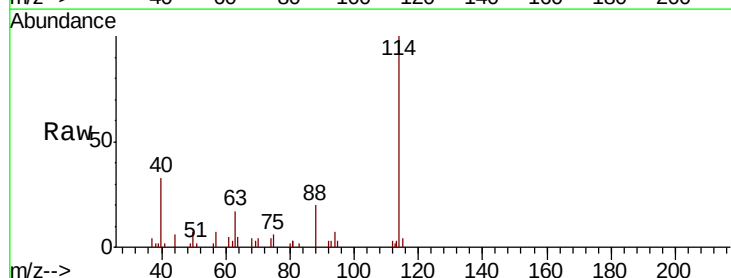
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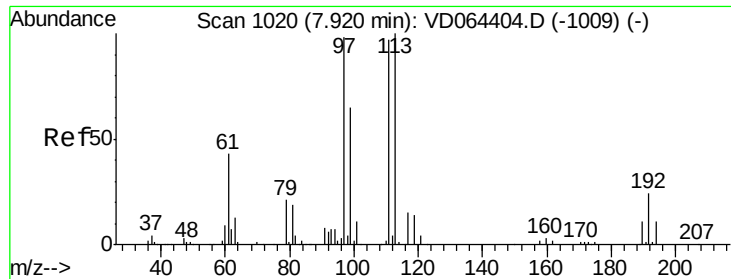
Tgt Ion: 65 Resp: 9254
 Ion Ratio Lower Upper
 65 100
 67 56.1 0.0 102.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064541.D
 Acq: 17 Dec 2019 13:15

Tgt Ion: 114 Resp: 21332
 Ion Ratio Lower Upper
 114 100
 63 17.1 0.0 40.0
 88 20.0 0.0 29.2

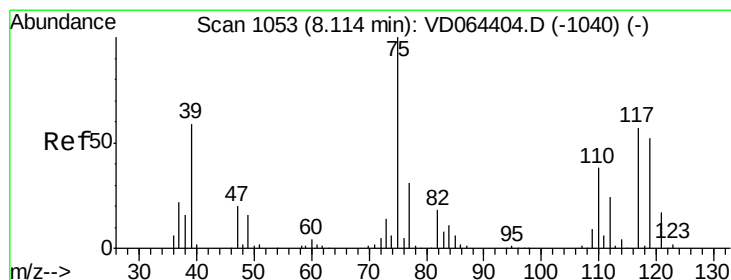
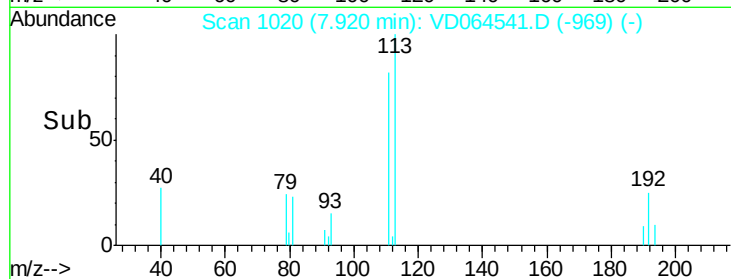
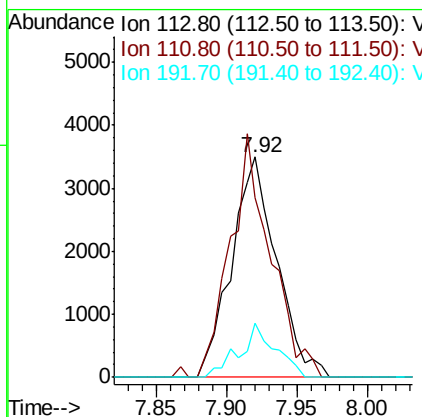
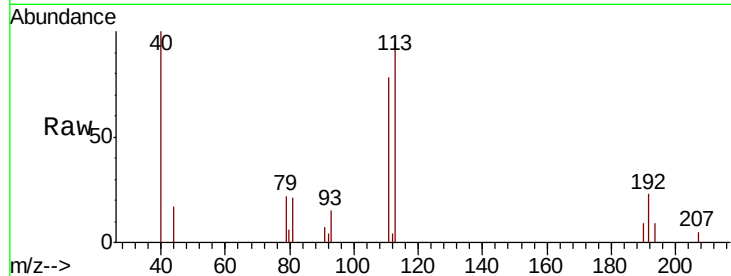




#35
 Dibromofluoromethane
 Concen: 57.953 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064541.D
 Acq: 17 Dec 2019 13:15

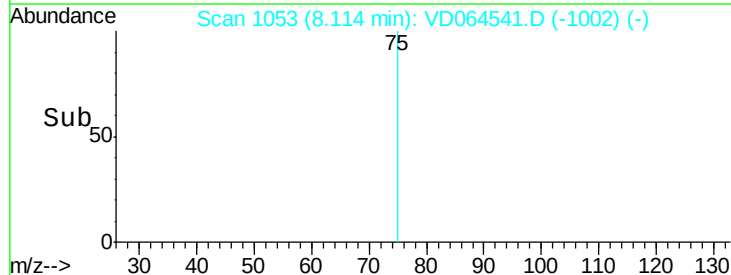
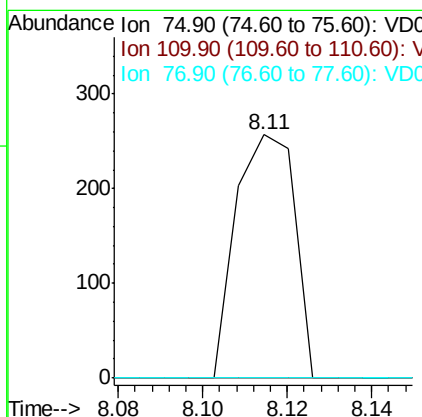
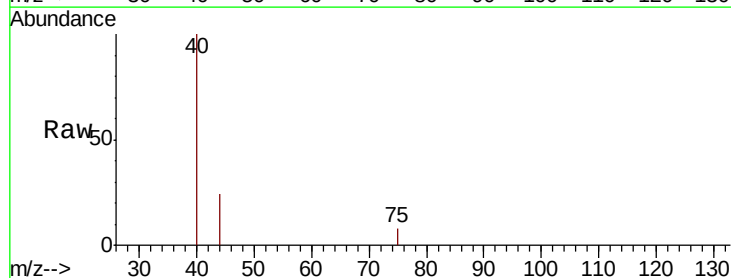
Instrument :
 MSVOA_D
 ClientSampleID :
 EP-9

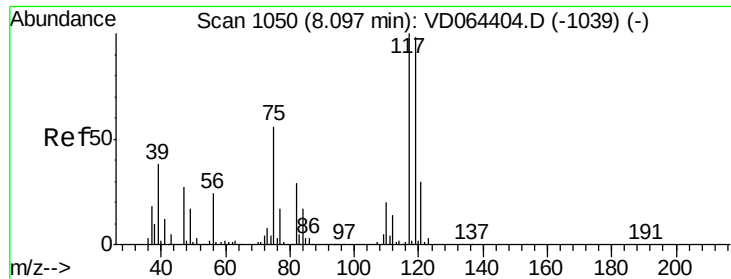
Tgt Ion: 113 Resp: 7789
 Ion Ratio Lower Upper
 113 100
 111 98.7 79.4 119.2
 192 19.5 18.6 28.0



#36
 1,1-Dichloropropene
 Concen: 1.229 ug/l
 RT: 8.11 min Scan# 1053
 Delta R.T. 0.00 min
 Lab File: VD064541.D
 Acq: 17 Dec 2019 13:15

Tgt Ion: 75 Resp: 248
 Ion Ratio Lower Upper
 75 100
 110 0.0 18.6 55.8#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.861 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD064541.D

Acq: 17 Dec 2019 13:15

Instrument :

MSVOA_D

ClientSampleId :

EP-9

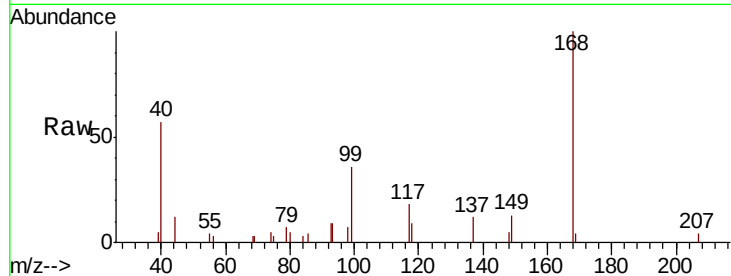
Tgt Ion:117 Resp: 1461

Ion Ratio Lower Upper

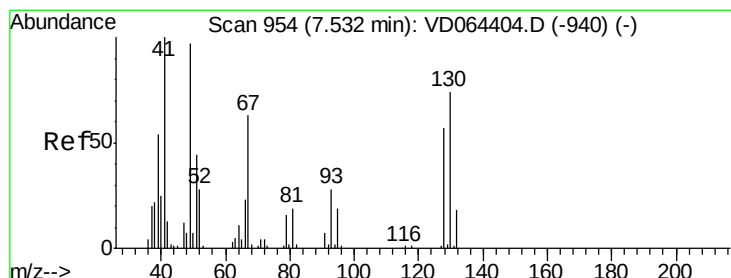
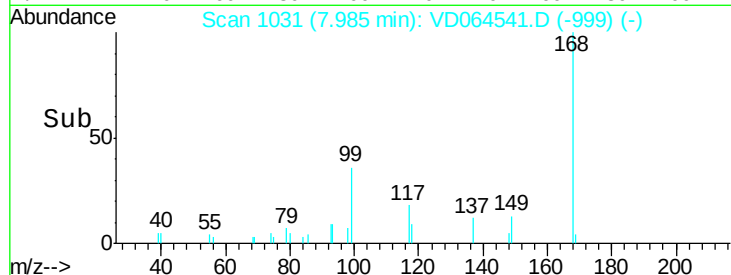
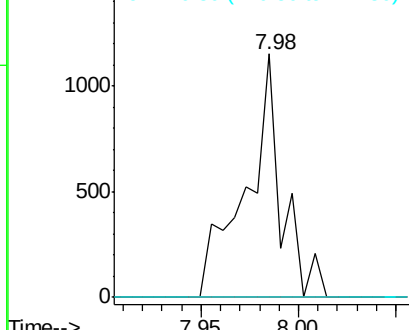
117 100

119 0.0 78.8 118.2#

121 0.0 24.2 36.2#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 1.181 ug/l

RT: 7.51 min Scan# 950

Delta R.T. -0.02 min

Lab File: VD064541.D

Acq: 17 Dec 2019 13:15

Tgt Ion: 41 Resp: 58

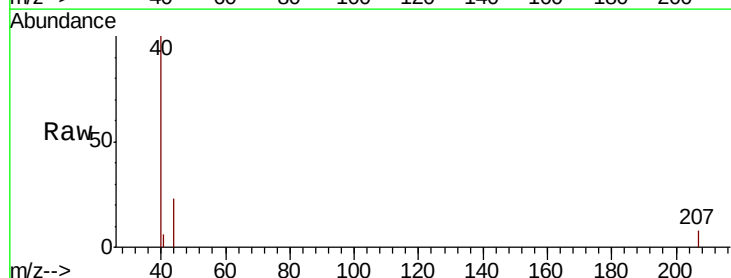
Ion Ratio Lower Upper

41 100

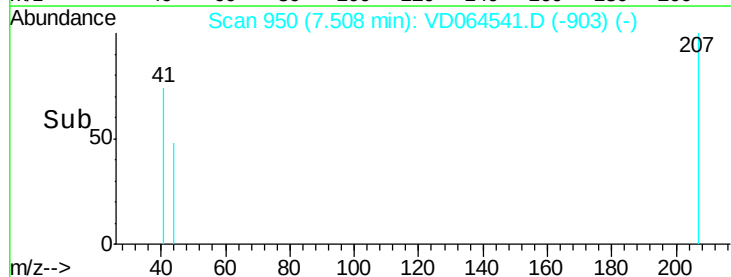
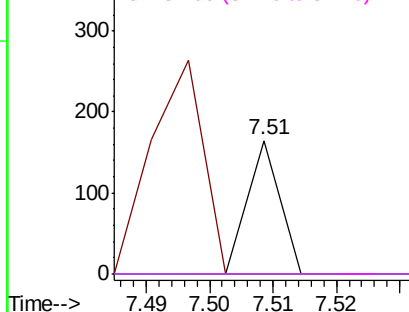
39 262.1 44.6 67.0#

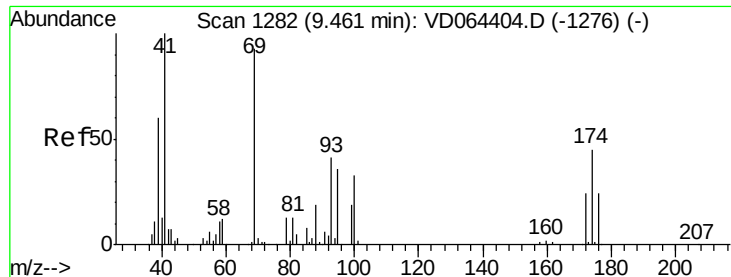
67 0.0 50.9 76.3#

52 0.0 22.5 33.7#



Abundance Ion 41.00 (40.70 to 41.70): VDC
Ion 39.00 (38.70 to 39.70): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

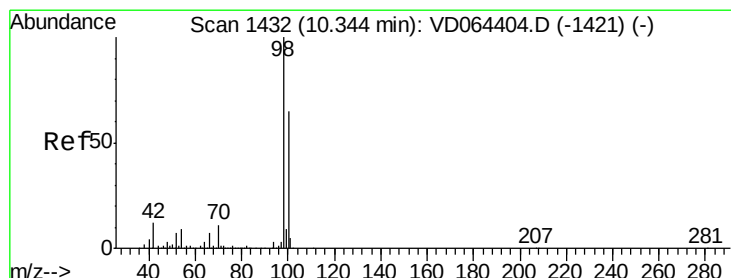
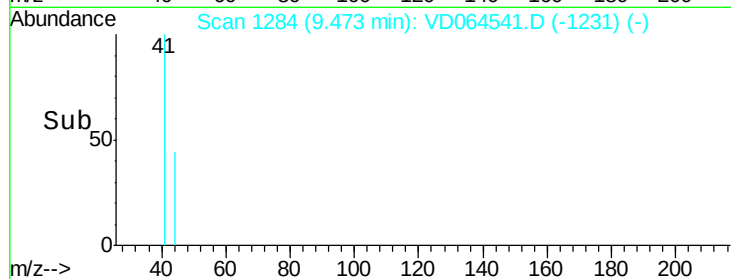
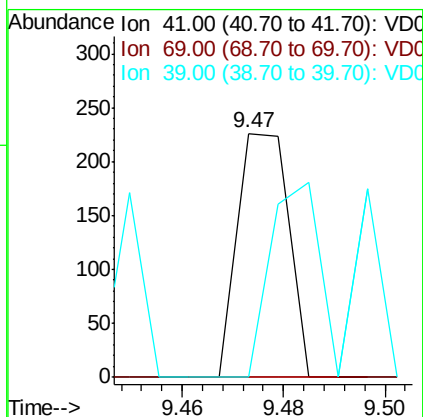
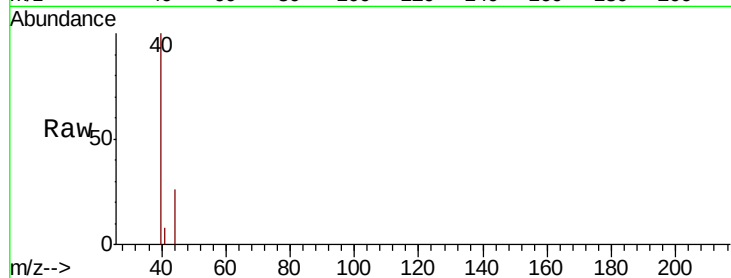




#48
Methyl methacrylate
Concen: 2.051 ug/l
RT: 9.47 min Scan# 1284
Delta R.T. 0.01 min
Lab File: VD064541.D
Acq: 17 Dec 2019 13:15

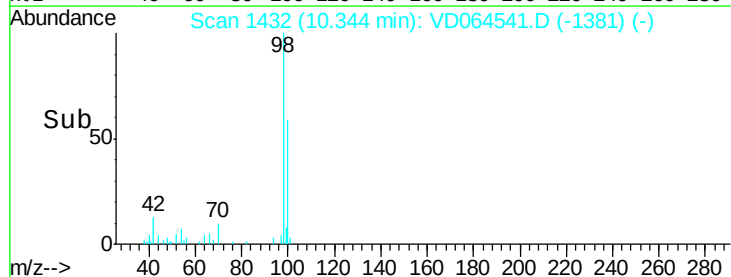
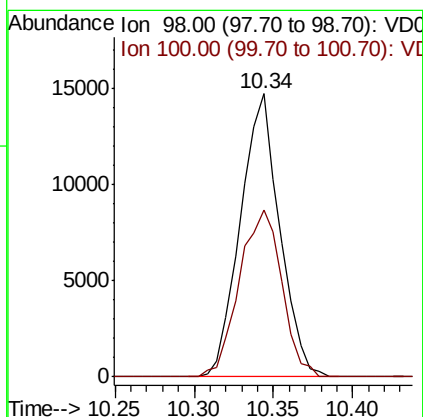
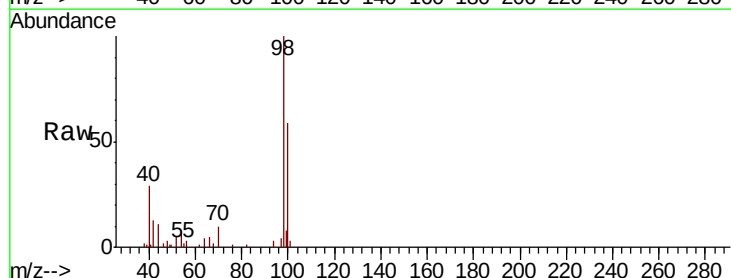
Instrument :
MSVOA_D
ClientSampleId :
EP-9

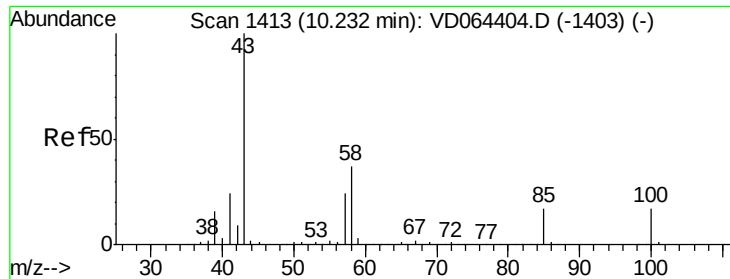
Tgt Ion: 41 Resp: 158
Ion Ratio Lower Upper
41 100
69 0.0 72.0 108.0#
39 115.2 55.2 82.8#



#50
Toluene-d8
Concen: 50.036 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD064541.D
Acq: 17 Dec 2019 13:15

Tgt Ion: 98 Resp: 25332
Ion Ratio Lower Upper
98 100
100 63.8 52.6 79.0

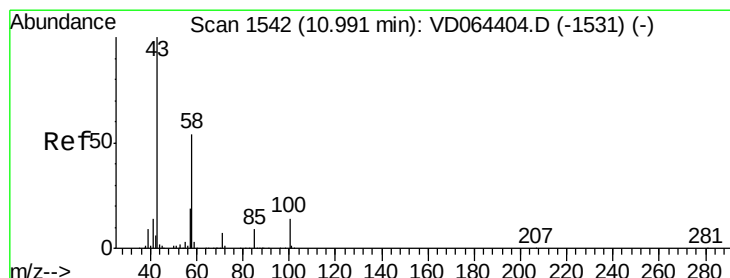
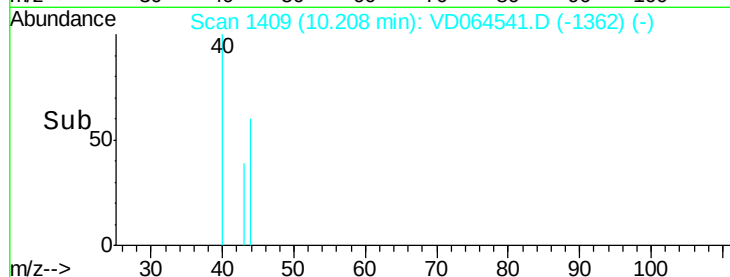
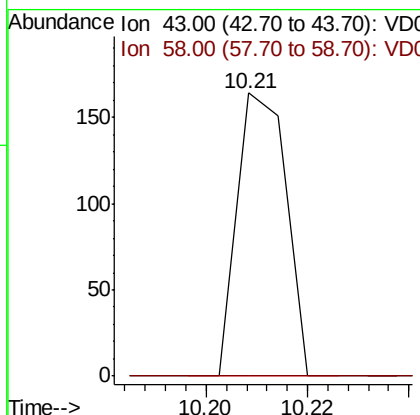
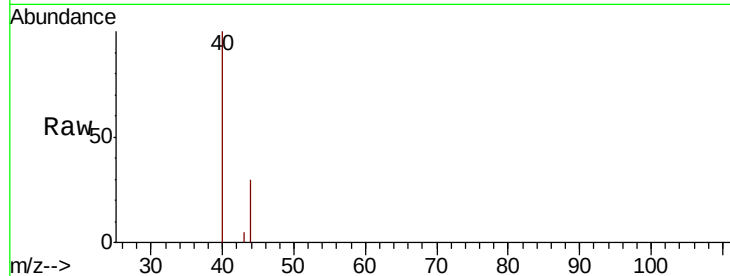




#51
 4-Methyl-2-Pentanone
 Concen: 1.333 ug/l
 RT: 10.21 min Scan# 1409
 Delta R.T. -0.02 min
 Lab File: VD064541.D
 Acq: 17 Dec 2019 13:15

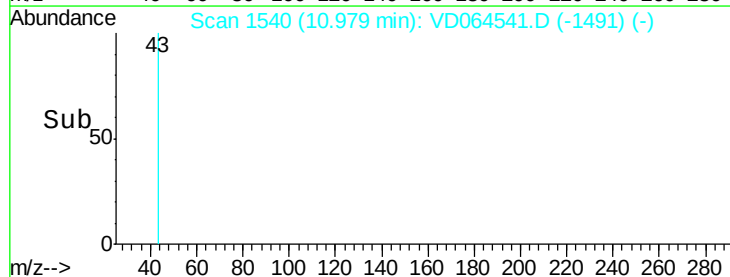
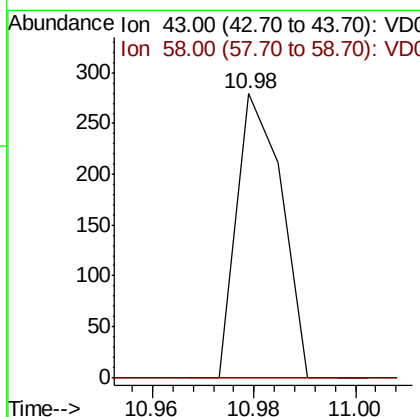
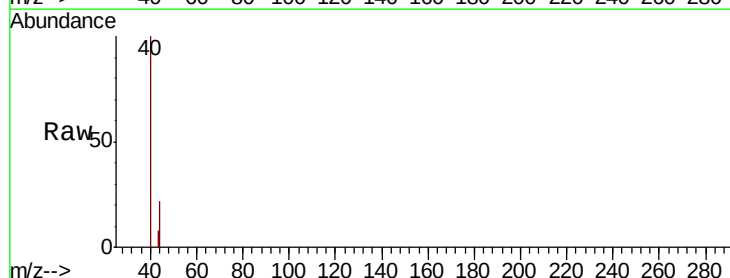
Instrument :
 MSVOA_D
 ClientSampled :
 EP-9

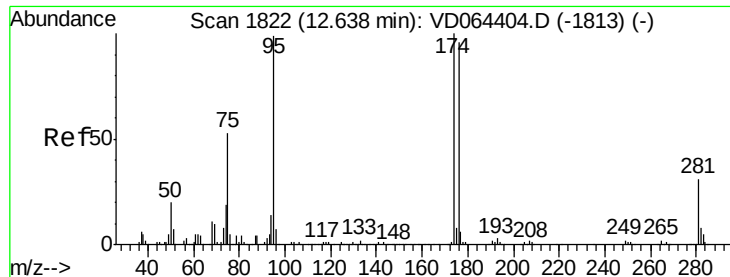
Tgt Ion: 43 Resp: 111
 Ion Ratio Lower Upper
 43 100
 58 0.0 30.6 46.0#



#59
 2-Hexanone
 Concen: 2.993 ug/l
 RT: 10.98 min Scan# 1540
 Delta R.T. -0.01 min
 Lab File: VD064541.D
 Acq: 17 Dec 2019 13:15

Tgt Ion: 43 Resp: 173
 Ion Ratio Lower Upper
 43 100
 58 0.0 26.3 78.8#

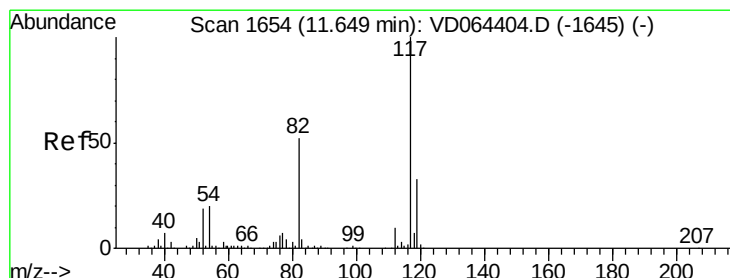
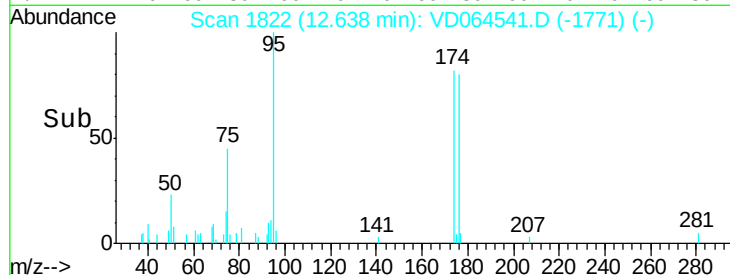
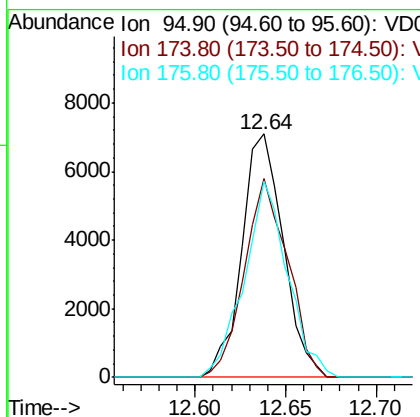
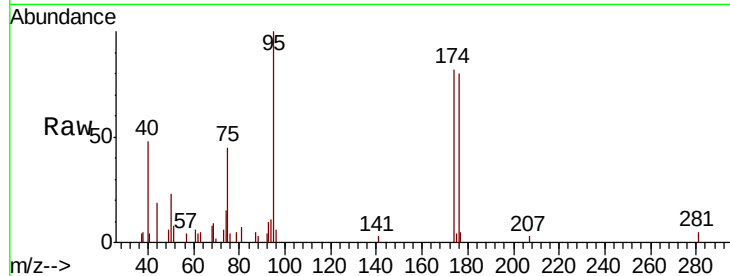




#62
4-Bromofluorobenzene
Concen: 69.285 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD064541.D
Acq: 17 Dec 2019 13:15

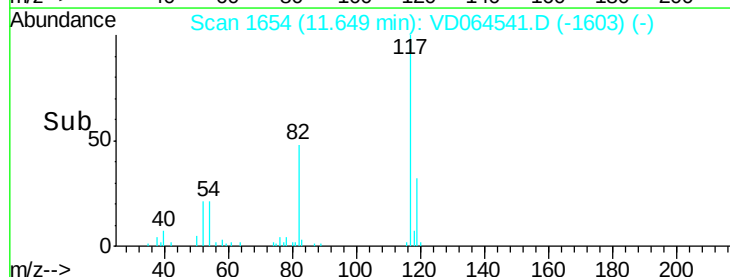
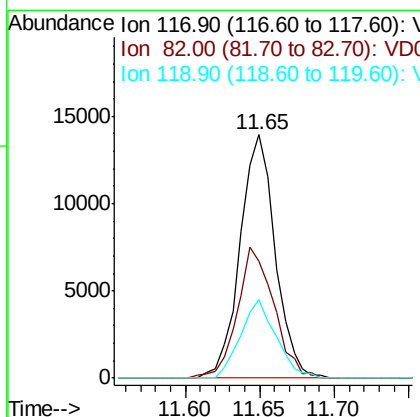
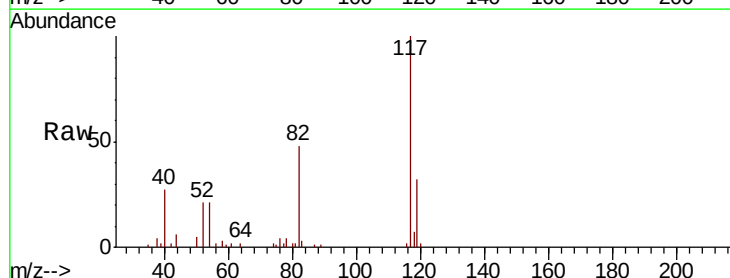
Instrument :
MSVOA_D
ClientSampleId :
EP-9

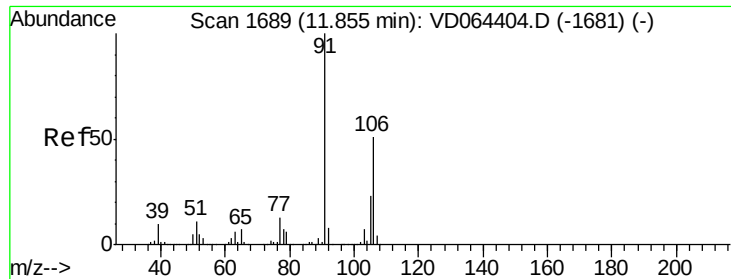
Tgt Ion: 95 Resp: 11273
Ion Ratio Lower Upper
95 100
174 85.3 0.0 197.2
176 84.5 0.0 189.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064541.D
Acq: 17 Dec 2019 13:15

Tgt Ion: 117 Resp: 22732
Ion Ratio Lower Upper
117 100
82 48.0 41.4 62.2
119 32.3 26.2 39.2

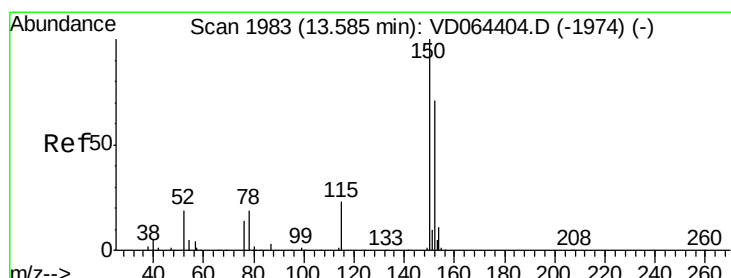
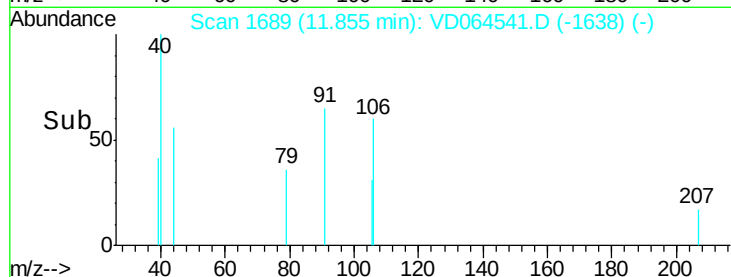
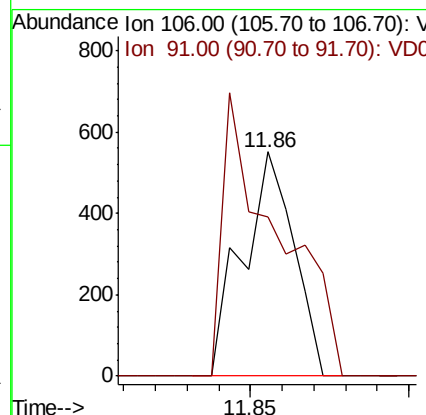
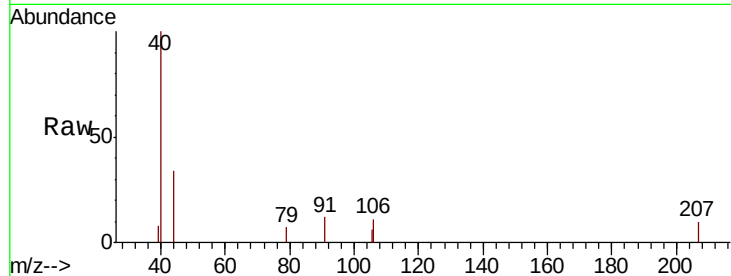




#68
m/p-Xylenes
Concen: 1.918 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. 0.00 min
Lab File: VD064541.D
Acq: 17 Dec 2019 13:15

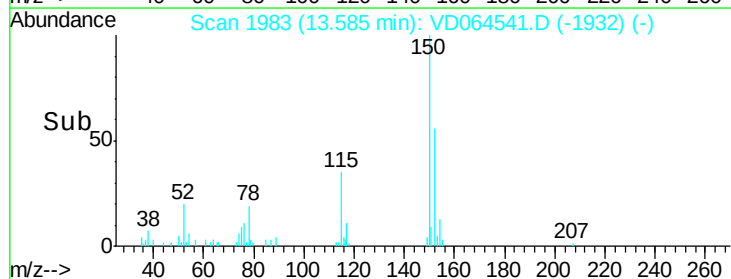
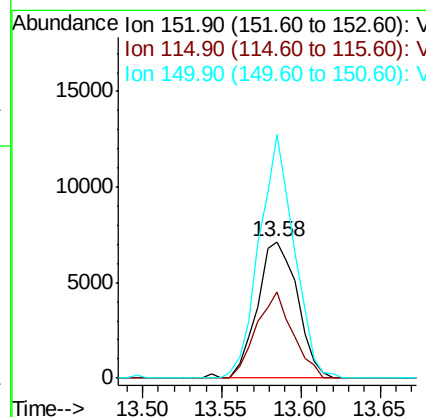
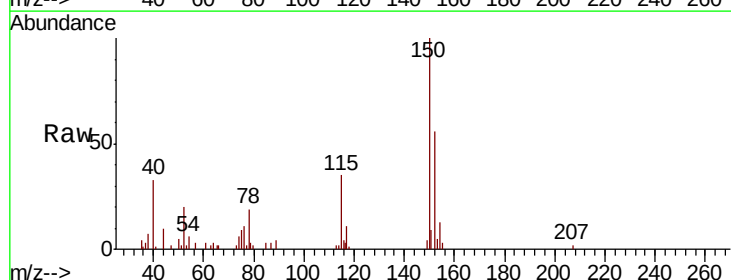
Instrument :
MSVOA_D
ClientSampled :
EP-9

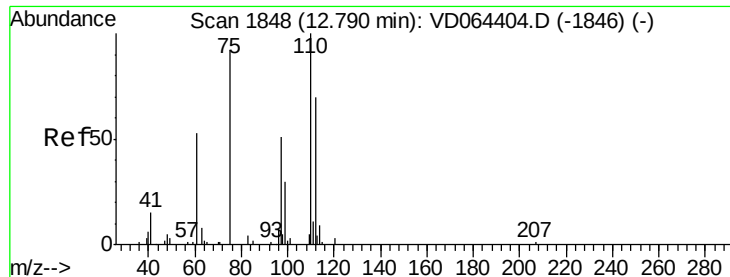
Tgt Ion:106 Resp: 617
Ion Ratio Lower Upper
106 100
91 135.3 157.4 236.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD064541.D
Acq: 17 Dec 2019 13:15

Tgt Ion:152 Resp: 12584
Ion Ratio Lower Upper
152 100
115 57.1 26.7 80.1
150 155.4 0.0 347.2





#76

1,2,3-Trichloropropane

Concen: 53.785 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064541.D

Acq: 17 Dec 2019 13:15

Instrument :

MSVOA_D

ClientSampleId :

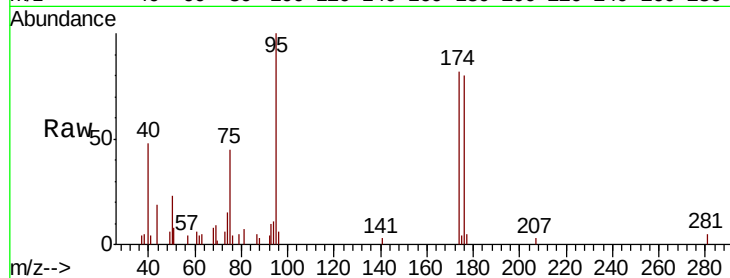
EP-9

Tgt Ion: 75 Resp: 5566

Ion Ratio Lower Upper

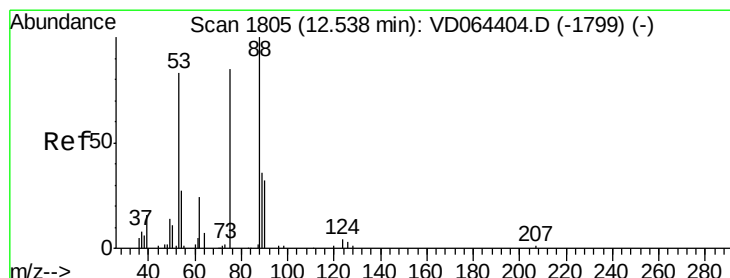
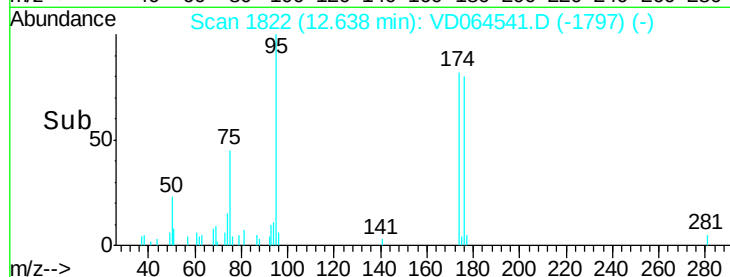
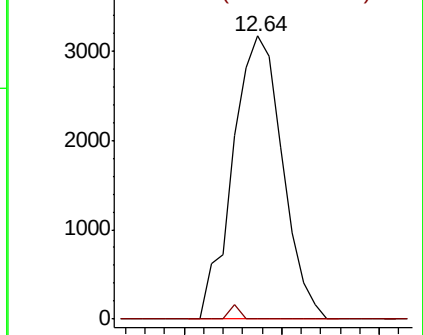
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 117.279 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD064541.D

Acq: 17 Dec 2019 13:15

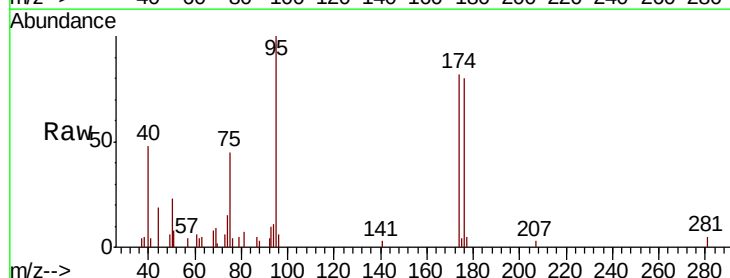
Tgt Ion: 75 Resp: 5566

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

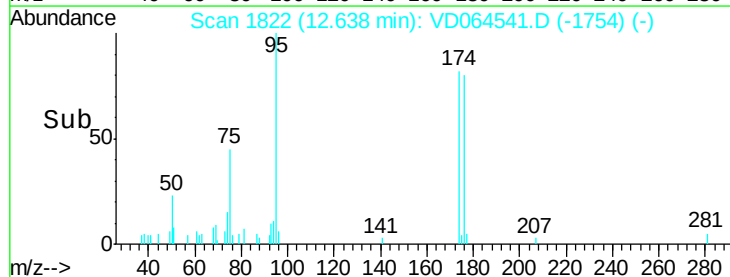
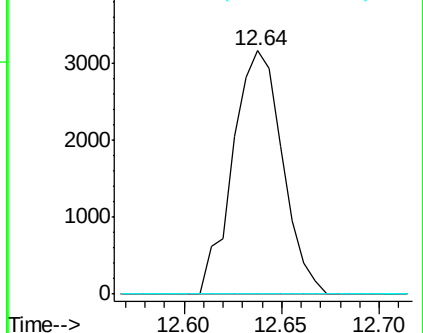
89 0.0 38.5 57.7#

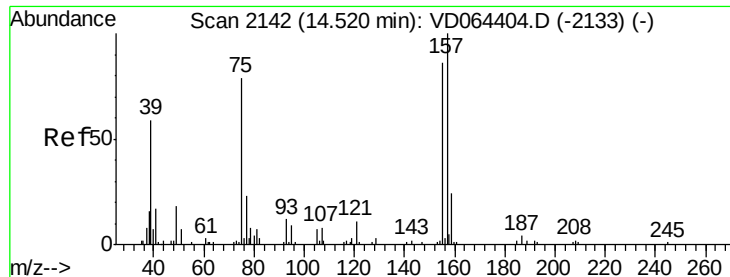


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

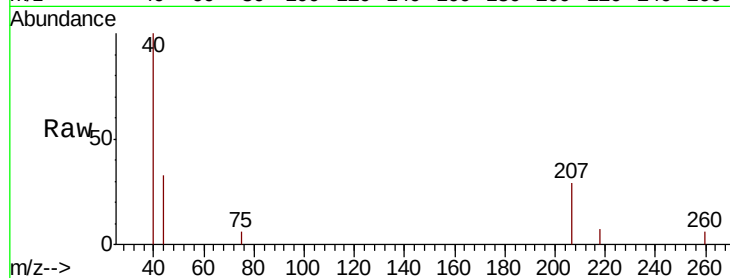




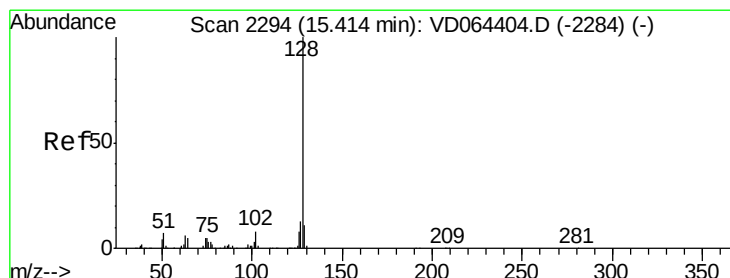
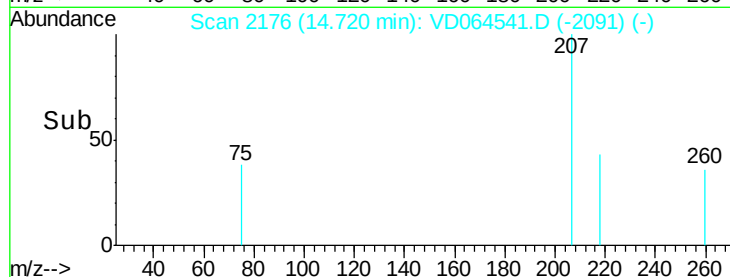
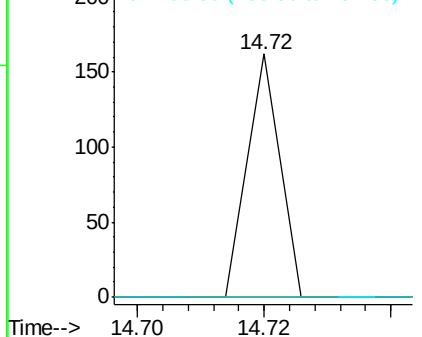
#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.72 min Scan# 2176
 Delta R.T. 0.20 min
 Lab File: VD064541.D
 Acq: 17 Dec 2019 13:15

Instrument :
 MSVOA_D
 ClientSampleId :
 EP-9

Tgt Ion: 75 Resp: 57
 Ion Ratio Lower Upper
 75 100
 155 0.0 51.9 155.7#
 157 0.0 63.2 189.8#

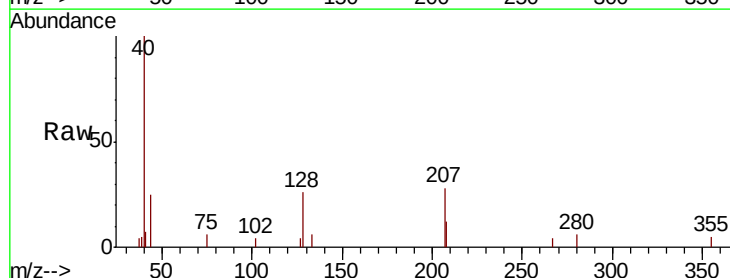


Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V

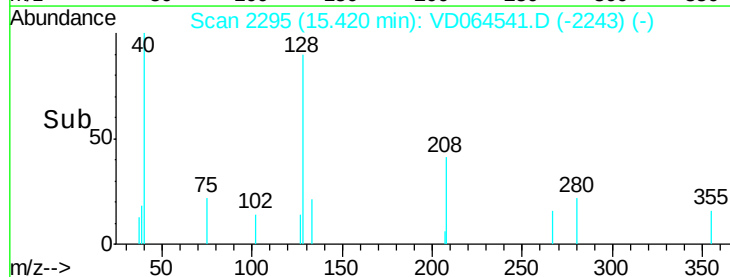
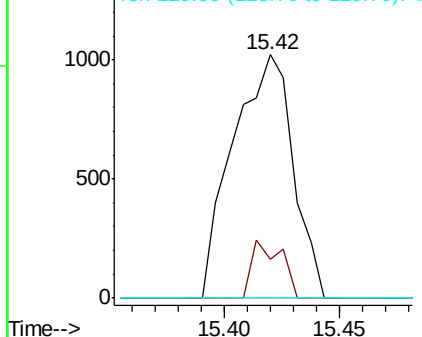


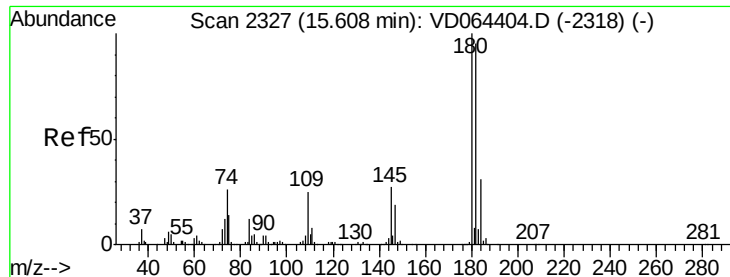
#95
 Naphthalene
 Concen: 3.993 ug/l
 RT: 15.42 min Scan# 2295
 Delta R.T. 0.01 min
 Lab File: VD064541.D
 Acq: 17 Dec 2019 13:15

Tgt Ion: 128 Resp: 1850
 Ion Ratio Lower Upper
 128 100
 127 11.6 10.5 15.7
 129 0.0 8.8 13.2#



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: 1.181 ug/l

RT: 15.61 min Scan# 2328

Delta R.T. 0.01 min

Lab File: VD064541.D

Acq: 17 Dec 2019 13:15

Instrument :

MSVOA_D

ClientSampleId :

EP-9

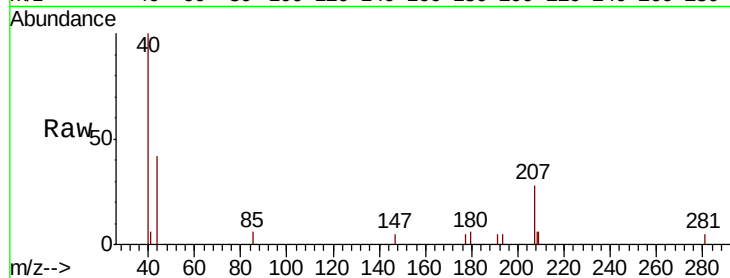
Tgt Ion:180 Resp: 280

Ion Ratio Lower Upper

180 100

182 54.3 47.6 142.9

145 0.0 14.6 43.8#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

