

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111119\
 Data File : VD064192.D
 Acq On : 11 Nov 2019 22:04
 Operator : VA/SY
 Sample : K5789-06
 Misc : 6.30G/5.00ml/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Nov 12 02:52:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 12 02:43:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	586346	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	989396	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	1003549	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	519905	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	288692	59.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.74%	
35) Dibromofluoromethane	7.91	113	308525	54.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.64%	
50) Toluene-d8	10.34	98	1202148	56.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.22%	
62) 4-Bromofluorobenzene	12.64	95	474679	63.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	127.96%	

Target Compounds

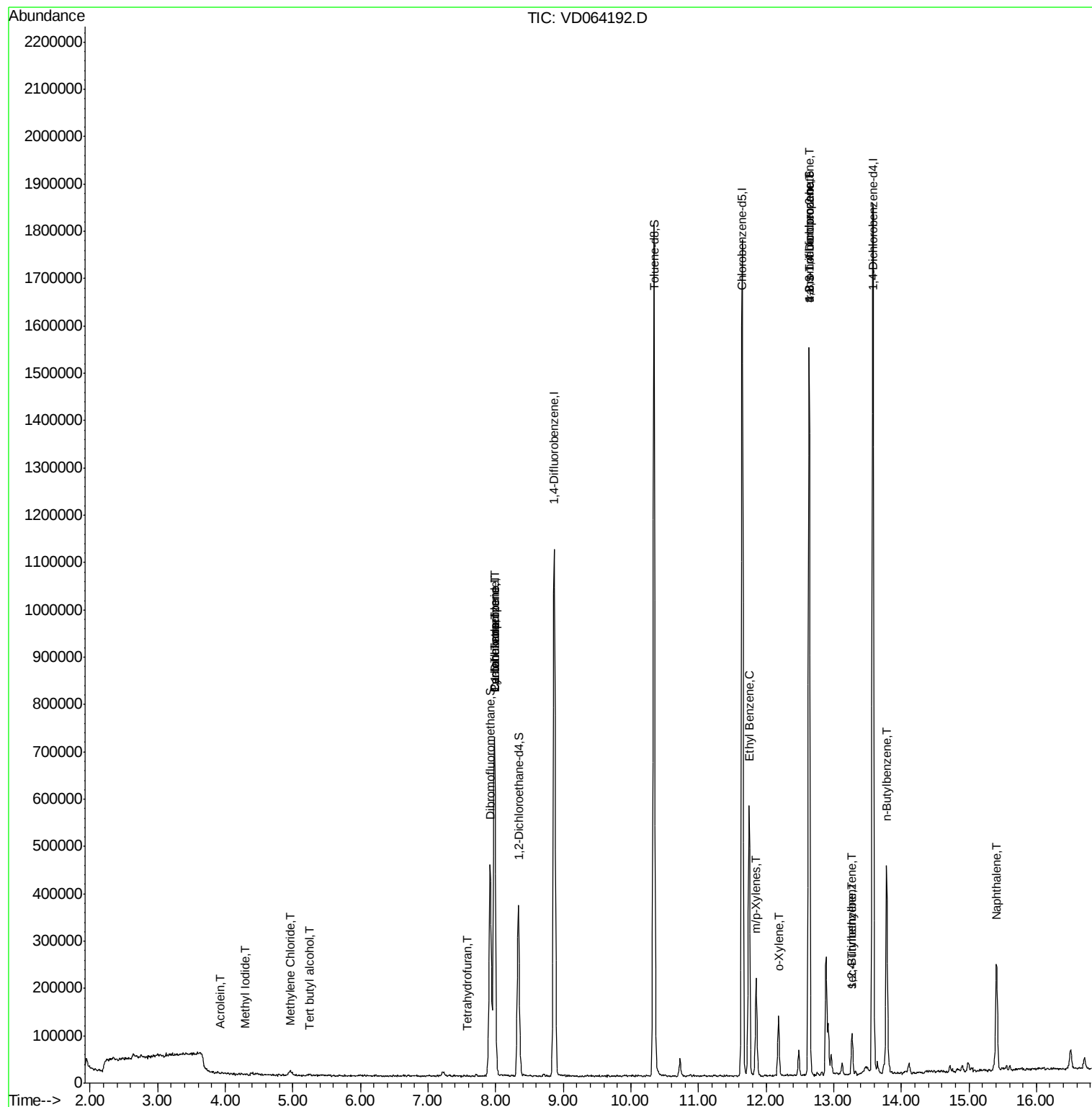
						Qvalue
10) Methyl Iodide	4.29	142	133	2.053	ug/l #	41
11) Tert butyl alcohol	5.26	59	2156	6.401	ug/l #	69
13) Acrolein	3.93	56	328	1.151	ug/l #	57
20) Methylene Chloride	4.96	84	7411	1.284	ug/l #	68
29) Tetrahydrofuran	7.58	42	1259	1.420	ug/l #	52
31) Cyclohexane	7.98	56	13138	1.388	ug/l #	37
36) 1,1-Dichloropropene	7.98	75	39103	4.282	ug/l #	48
38) Carbon Tetrachloride	7.98	117	52902	5.414	ug/l #	15
67) Ethyl Benzene	11.75	91	407242	11.032	ug/l	100
68) m/p-Xylenes	11.86	106	64118	4.532	ug/l	98
69) o-Xylene	12.18	106	34930	2.662	ug/l	96
76) 1,2,3-Trichloropropane	12.64	75	245207	58.554	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	245207	116.312	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.27	105	47004	1.518	ug/l	99
85) sec-Butylbenzene	13.27	105	47004	1.266	ug/l #	55
89) n-Butylbenzene	13.78	91	41374	1.297	ug/l #	43
95) Naphthalene	15.41	128	222257	12.066	ug/l	98

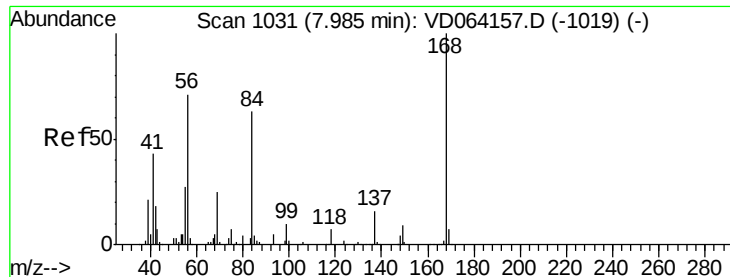
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD111119\
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QLast Update : Tue Nov 12 02:43:24 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064192.D

Acq: 11 Nov 2019 22:04

Instrument :

MSVOA_D

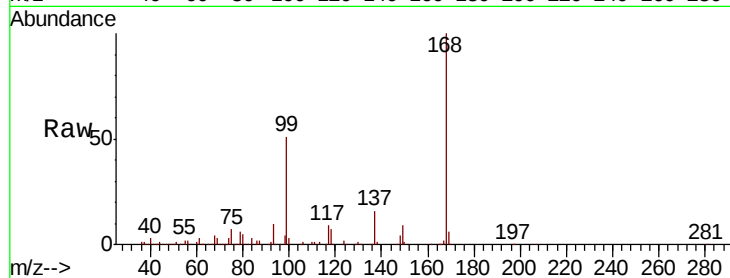
ClientSampled :

Tot Ion:168 Resp: 586346

Ion Ratio Lower Upper

168 100

99 51.1 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.98

250000

200000

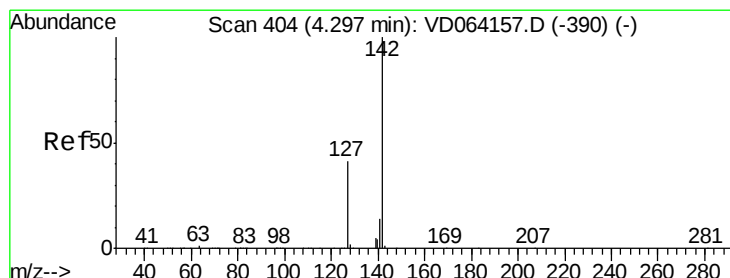
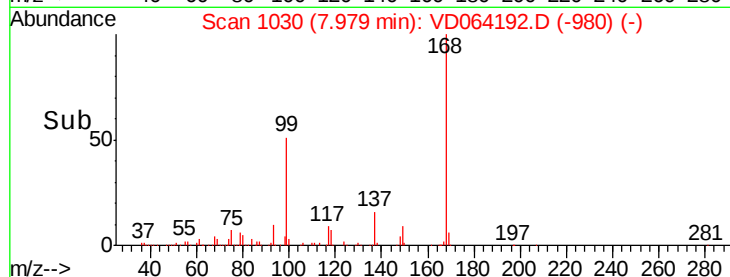
150000

100000

50000

0

Time-->



#10

Methyl Iodide

Concen: 2.053 ug/l

RT: 4.29 min Scan# 402

Delta R.T. -0.01 min

Lab File: VD064192.D

Acq: 11 Nov 2019 22:04

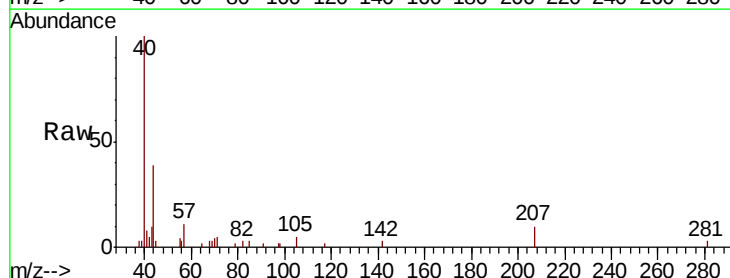
Tgt Ion:142 Resp: 133

Ion Ratio Lower Upper

142 100

127 0.0 34.4 51.6#

141 0.0 11.2 16.8#



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

250

200

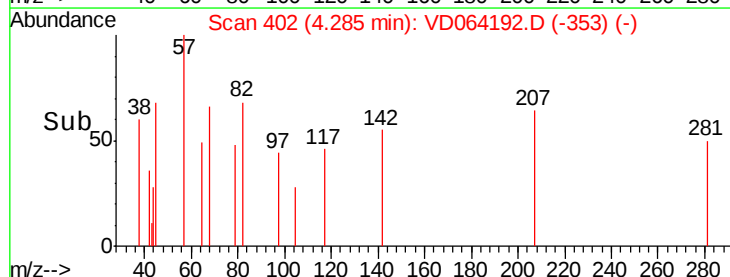
150

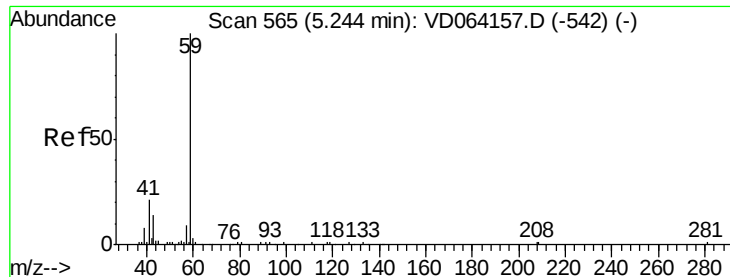
100

50

0

Time-->

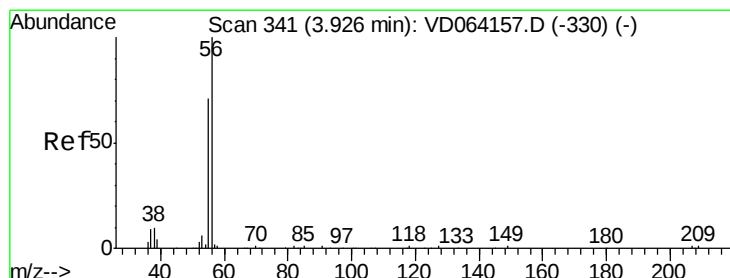
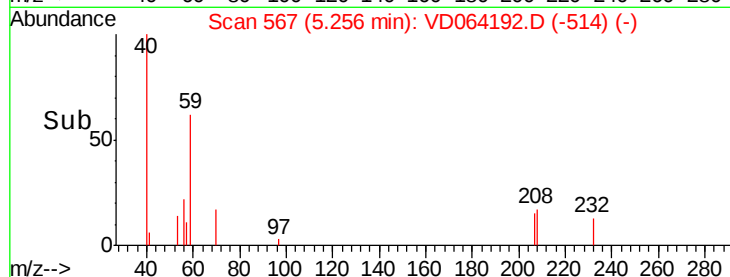
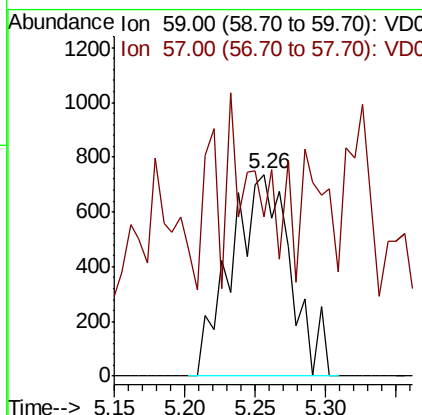
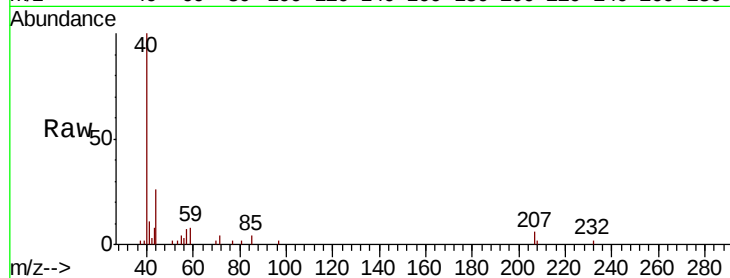




#11
Tert butyl alcohol
Concen: 6.401 ug/l
RT: 5.26 min Scan# 567
Delta R.T. 0.01 min
Lab File: VD064192.D
Acq: 11 Nov 2019 22:04

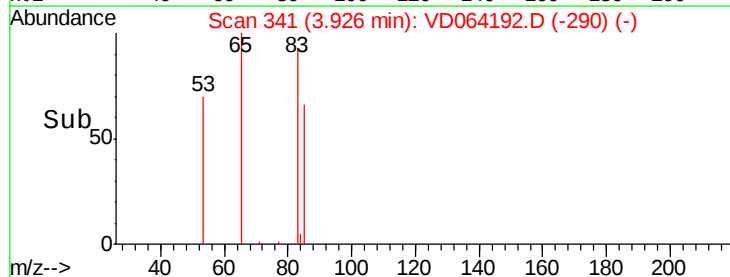
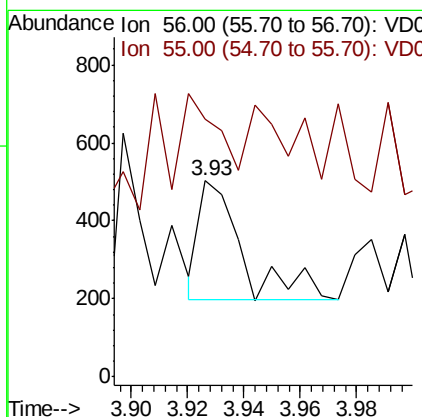
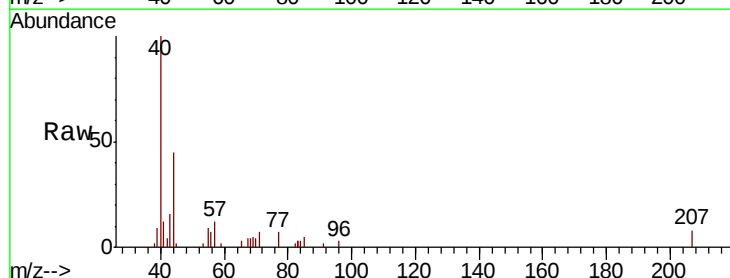
Instrument :
MSVOA_D
ClientSampled :

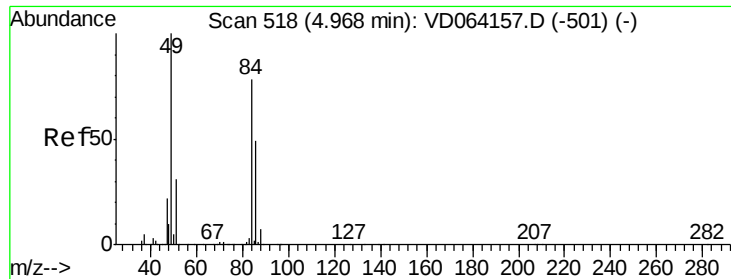
Tot Ion: 59 Resp: 2156
Ion Ratio Lower Upper
59 100
57 0.0 9.4 14.2#



#13
Acrolein
Concen: 1.151 ug/l
RT: 3.93 min Scan# 341
Delta R.T. -0.00 min
Lab File: VD064192.D
Acq: 11 Nov 2019 22:04

Tgt Ion: 56 Resp: 328
Ion Ratio Lower Upper
56 100
55 34.5 56.1 84.1#

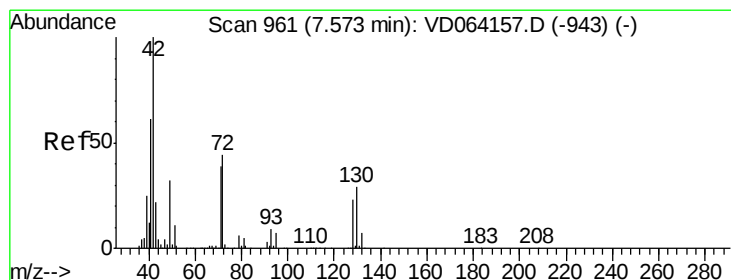
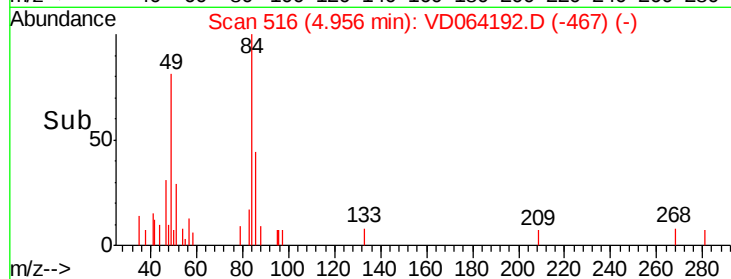
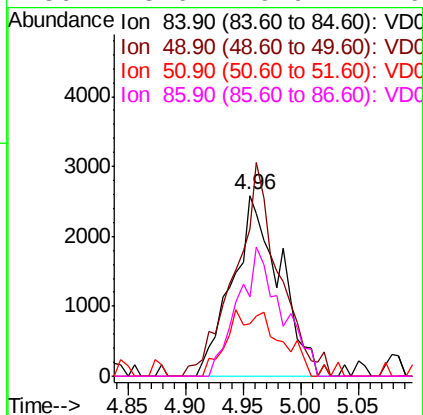
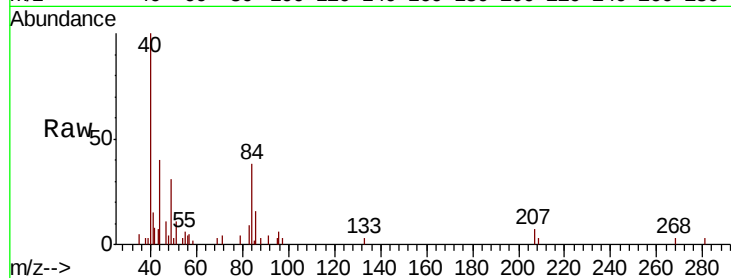




#20
Methvlene Chloride
Concen: 1.284 ug/l
RT: 4.96 min Scan# 516
Delta R.T. -0.01 min
Lab File: VD064192.D
Acq: 11 Nov 2019 22:04

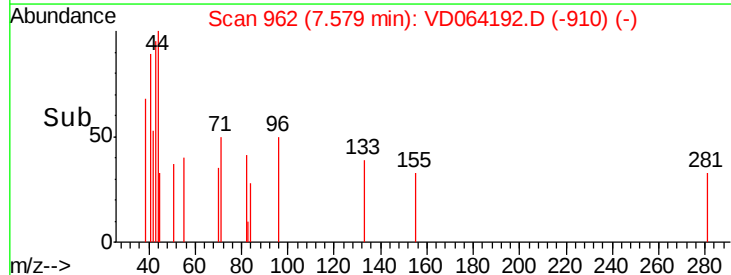
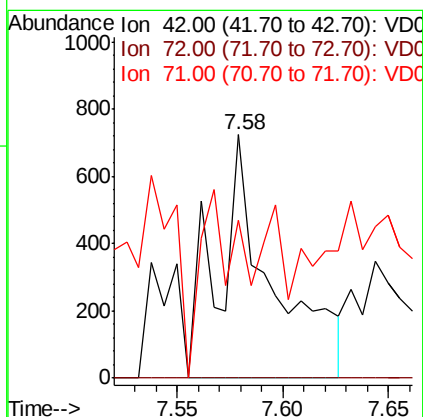
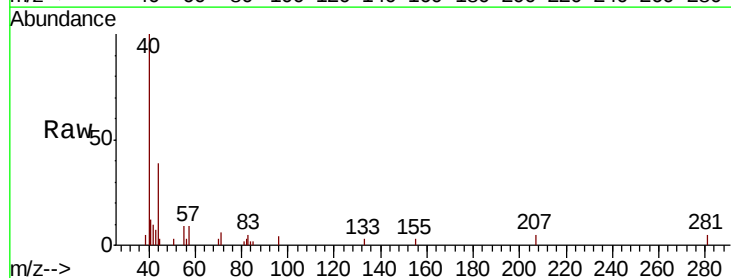
Instrument :
MSVOA_D
ClientSampleId :

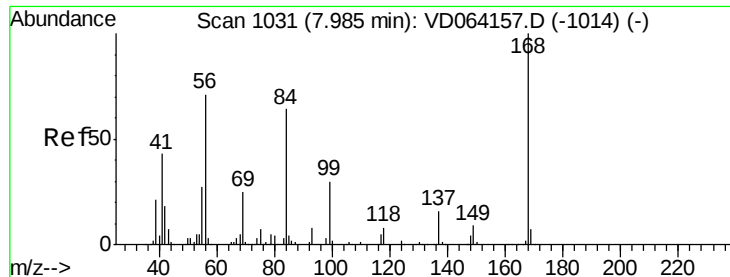
Tot Ion: 84 Resp: 7411
Ion Ratio Lower Upper
84 100
49 81.3 102.1 153.1#
51 29.2 32.2 48.2#
86 43.6 49.9 74.9#



#29
Tetrahydrofuran
Concen: 1.420 ug/l
RT: 7.58 min Scan# 962
Delta R.T. 0.01 min
Lab File: VD064192.D
Acq: 11 Nov 2019 22:04

Tgt Ion: 42 Resp: 1259
Ion Ratio Lower Upper
42 100
72 0.0 33.4 50.2#
71 56.0 31.0 46.4#





#31

Cvclohexane

Concen: 1.388 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD064192.D

Acq: 11 Nov 2019 22:04

Instrument :
MSVOA_D
ClientSampled :

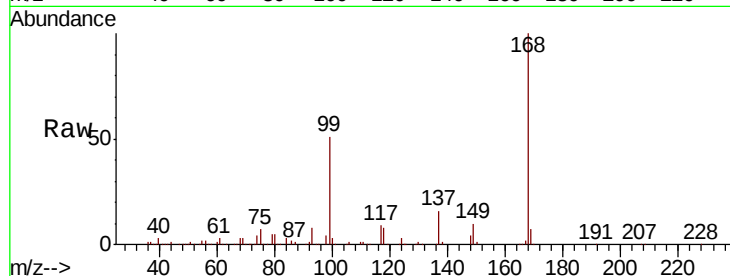
Tot Ion: 56 Resp: 13138

Ion Ratio Lower Upper

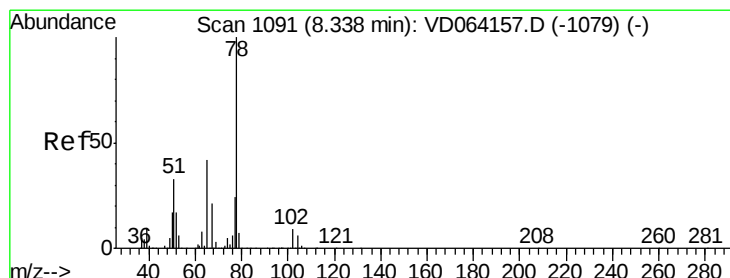
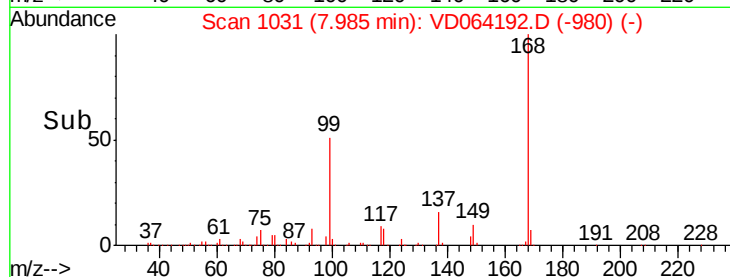
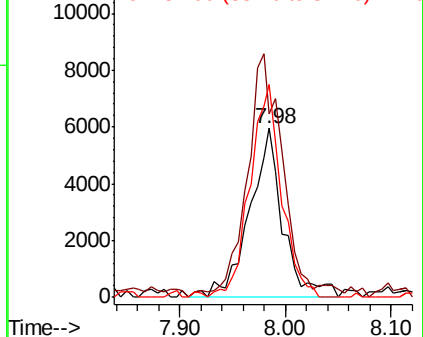
56 100

69 108.5 28.2 42.4#

84 125.7 71.8 107.6#



Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC



#33

1,2-Dichloroethane-d4

Concen: 59.865 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. -0.00 min

Lab File: VD064192.D

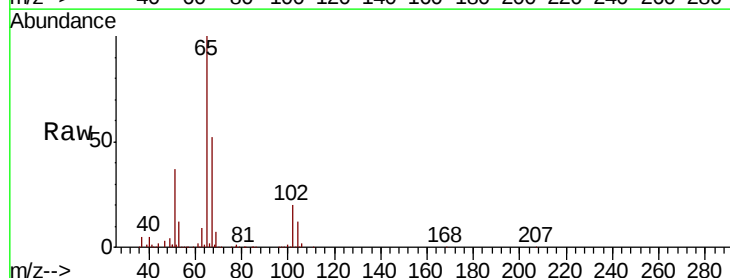
Acq: 11 Nov 2019 22:04

Tgt Ion: 65 Resp: 288692

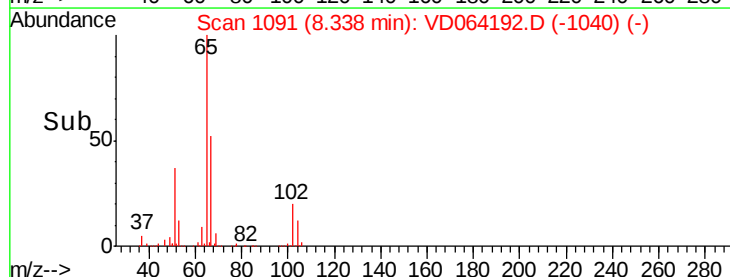
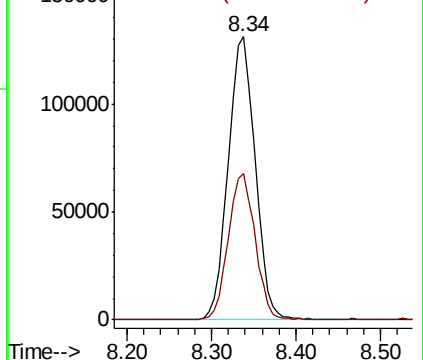
Ion Ratio Lower Upper

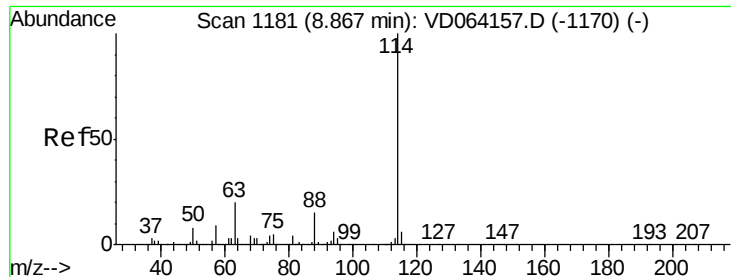
65 100

67 51.3 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC

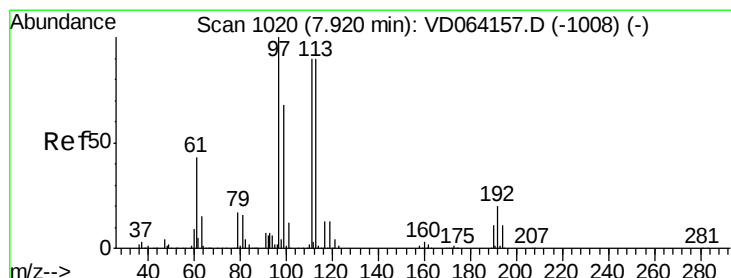
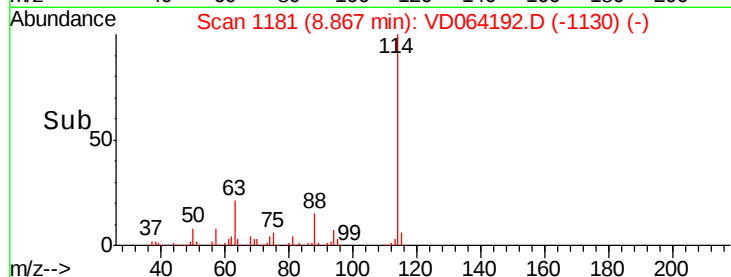
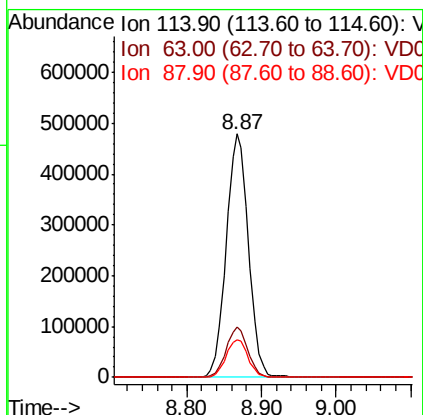
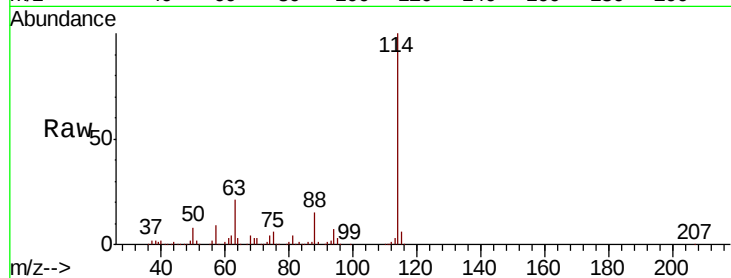




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.87 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VD064192.D
Acq: 11 Nov 2019 22:04

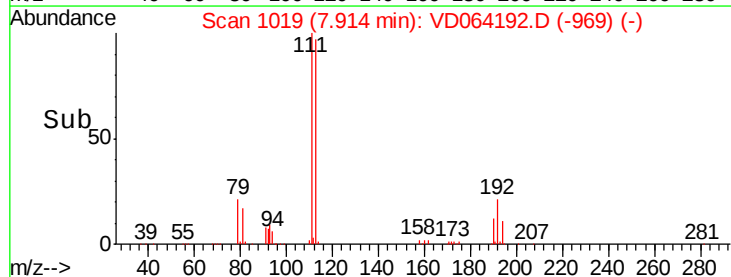
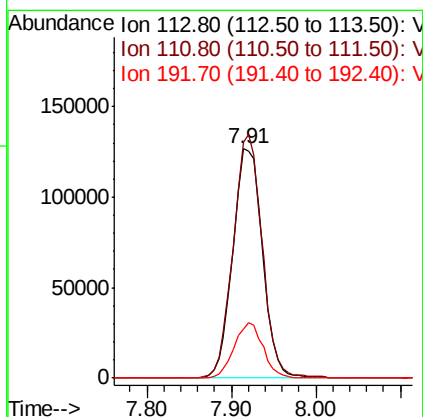
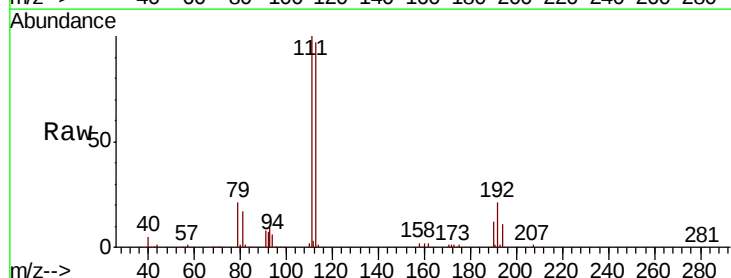
Instrument :
MSVOA_D
ClientSampleId :

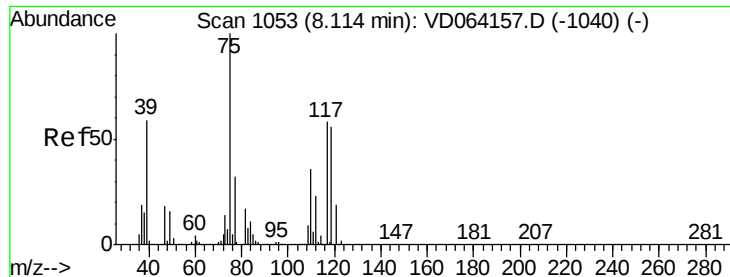
Tot Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	40.0
88	15.5	0.0	30.2



#35
Dibromofluoromethane
Concen: 54.325 ug/l
RT: 7.91 min Scan# 1019
Delta R.T. -0.01 min
Lab File: VD064192.D
Acq: 11 Nov 2019 22:04

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.5	122.3
192	23.3	18.8	28.2





#36

1,1-Dichloropropene

Concen: 4.282 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.13 min

Lab File: VD064192.D

Acq: 11 Nov 2019 22:04

Instrument :
MSVOA_D
ClientSampled :

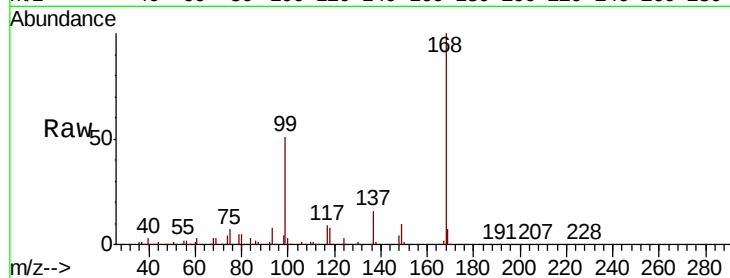
Tot Ion: 75 Resp: 39103

Ion Ratio Lower Upper

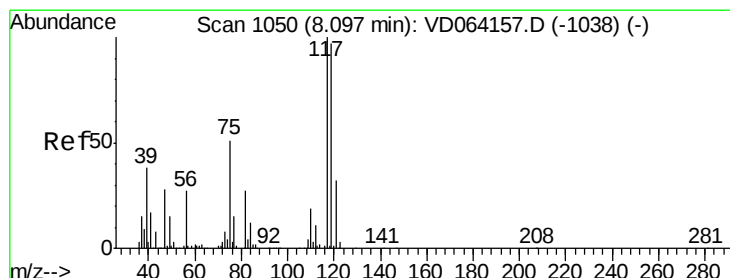
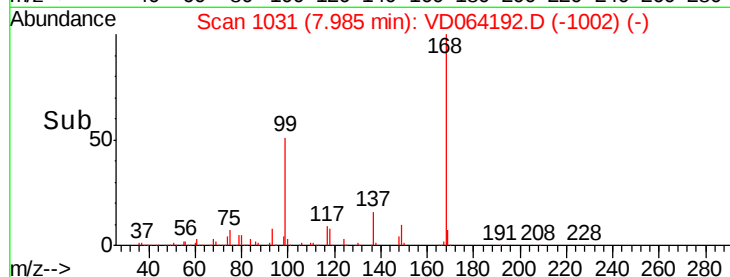
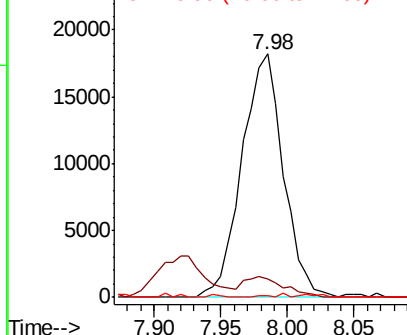
75 100

110 8.2 18.3 54.9#

77 0.3 25.0 37.6#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): V



#38

Carbon Tetrachloride

Concen: 5.414 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD064192.D

Acq: 11 Nov 2019 22:04

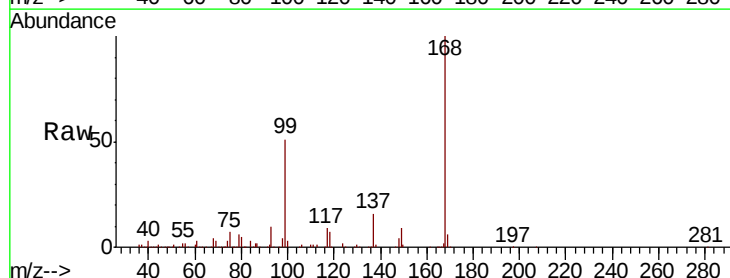
Tgt Ion: 117 Resp: 52902

Ion Ratio Lower Upper

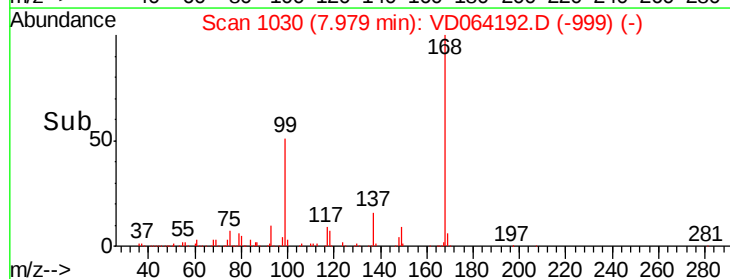
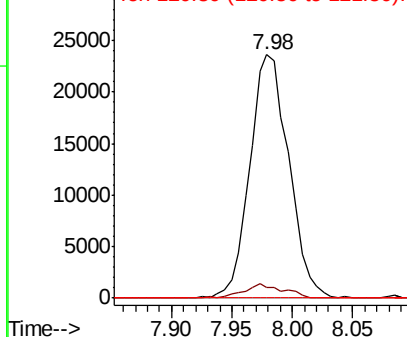
117 100

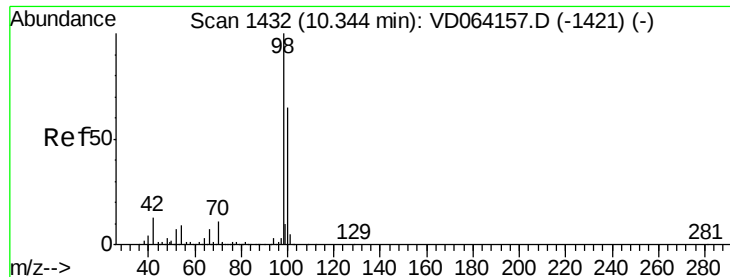
119 4.5 77.2 115.8#

121 0.0 25.5 38.3#



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





#50

Toluene-d8

Concen: 56.110 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD064192.D

Acq: 11 Nov 2019 22:04

Instrument :

MSVOA_D

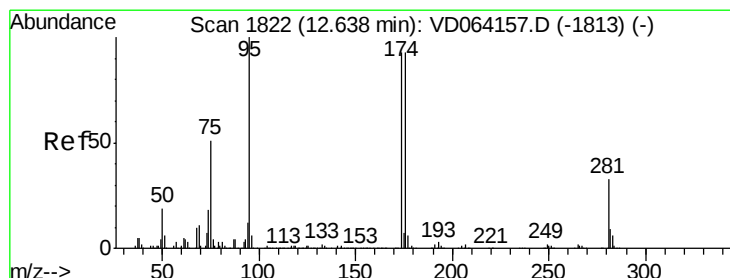
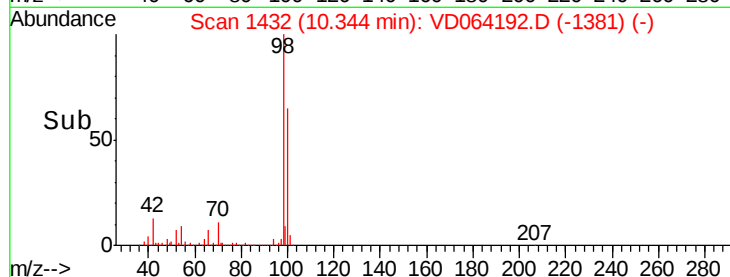
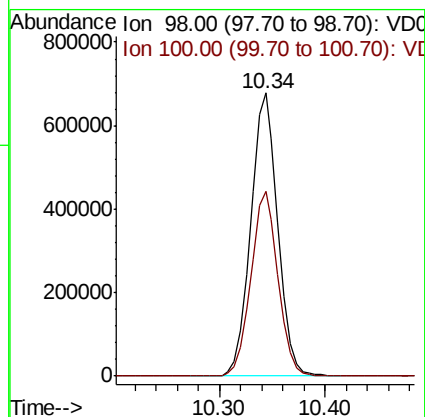
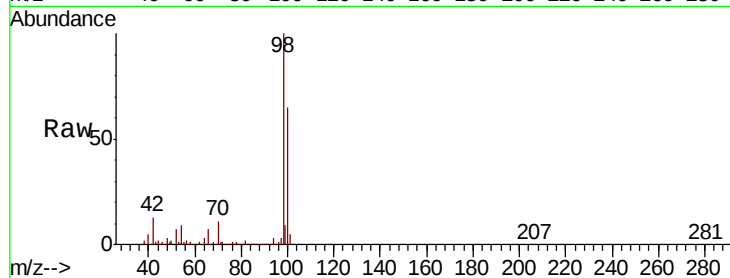
ClientSampleId :

Tot Ion: 98 Resp: 1202148

Ion Ratio Lower Upper

98 100

100 65.8 52.6 78.8



#62

4-Bromofluorobenzene

Concen: 63.977 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD064192.D

Acq: 11 Nov 2019 22:04

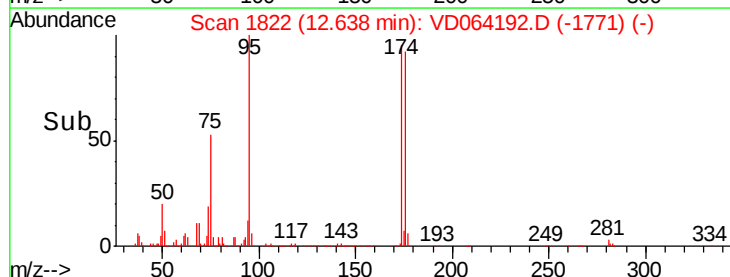
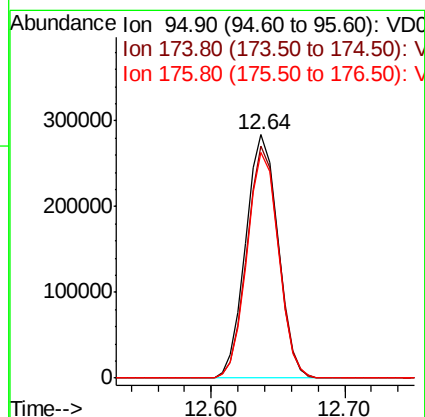
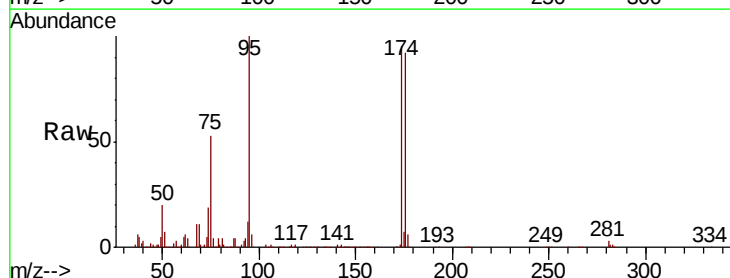
Tgt Ion: 95 Resp: 474679

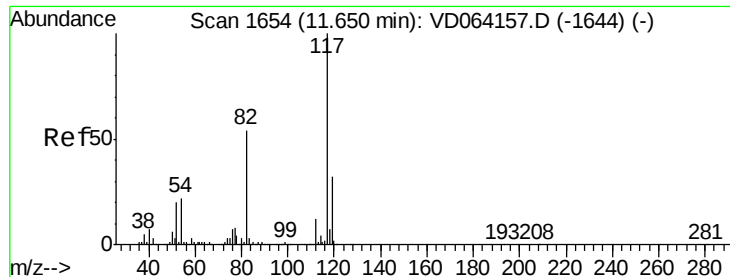
Ion Ratio Lower Upper

95 100

174 93.1 0.0 183.6

176 90.6 0.0 180.2

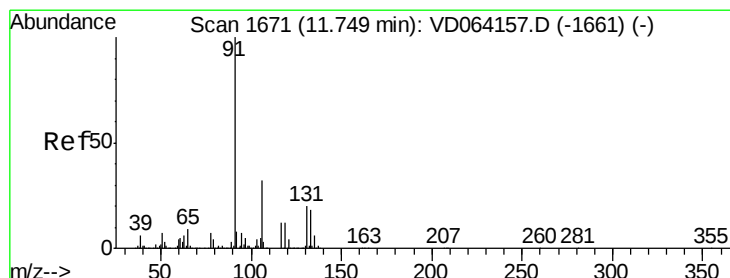
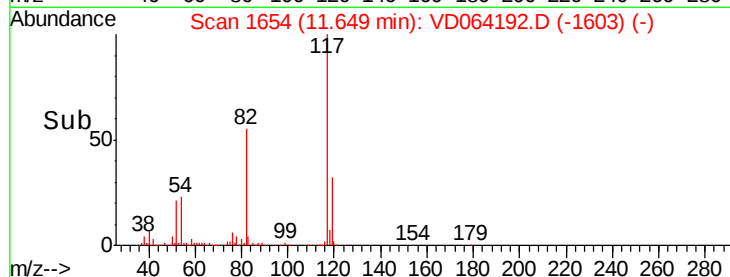
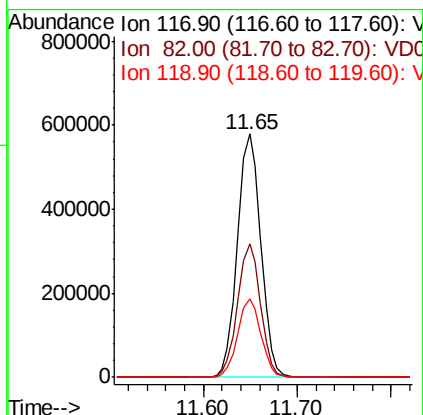
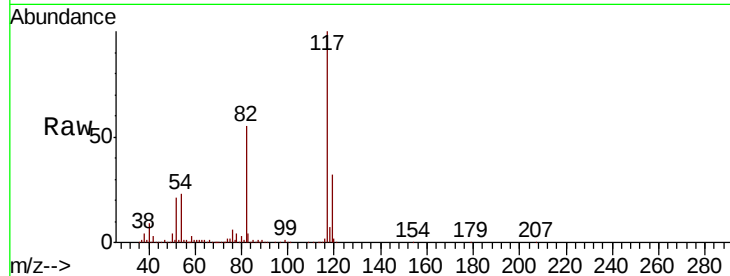




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD064192.D
Acq: 11 Nov 2019 22:04

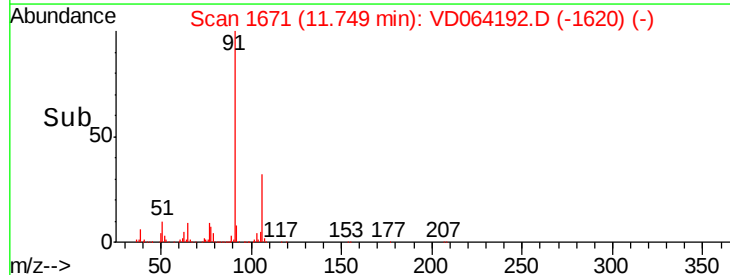
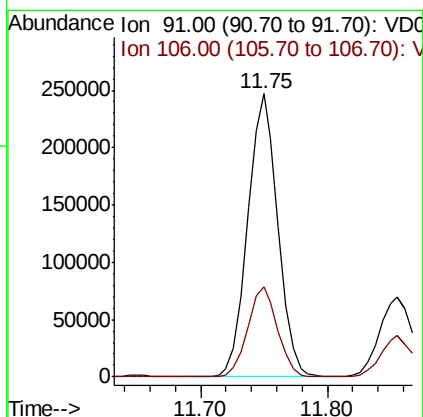
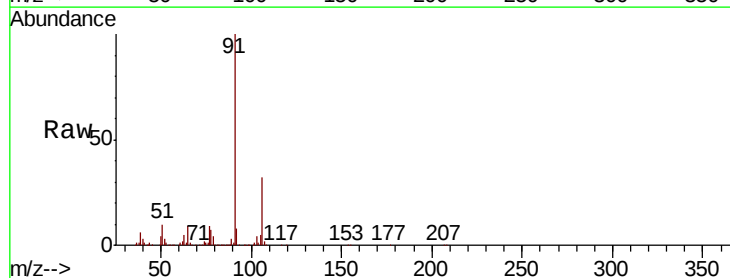
Instrument :
MSVOA_D
ClientSampleId :

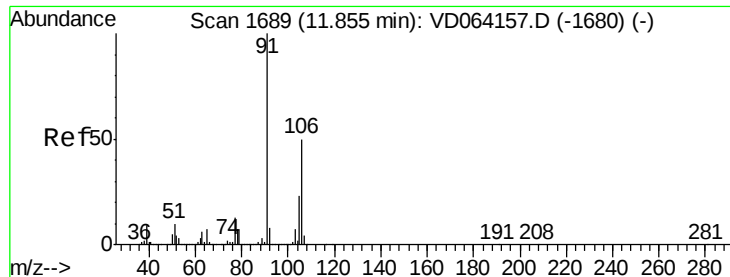
Tot Ion:117 Resp: 1003549
Ion Ratio Lower Upper
117 100
82 54.9 42.8 64.2
119 32.3 25.6 38.4



#67
Ethyl Benzene
Concen: 11.032 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. -0.00 min
Lab File: VD064192.D
Acq: 11 Nov 2019 22:04

Tgt Ion: 91 Resp: 407242
Ion Ratio Lower Upper
91 100
106 31.9 25.5 38.3

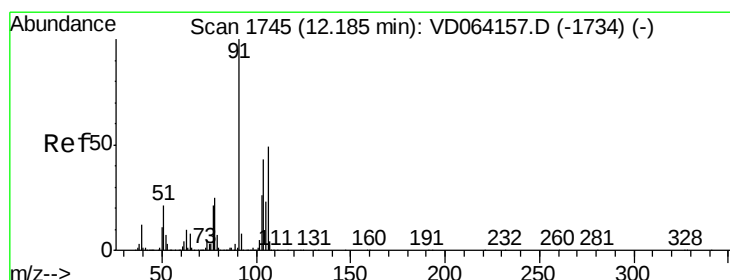
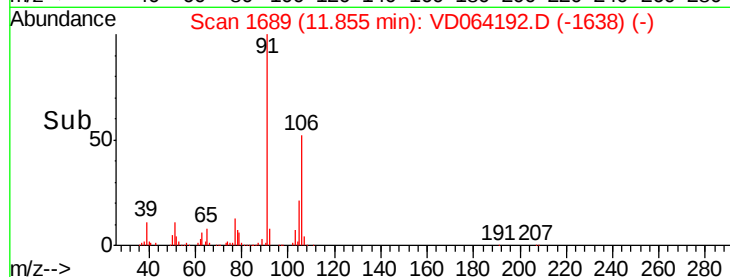
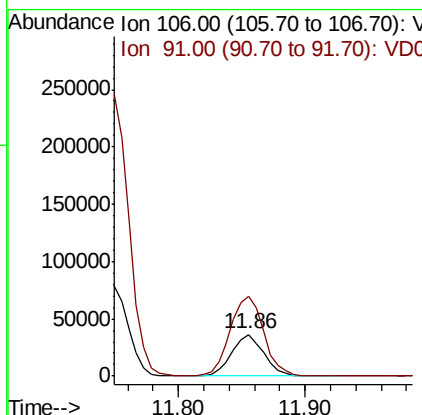
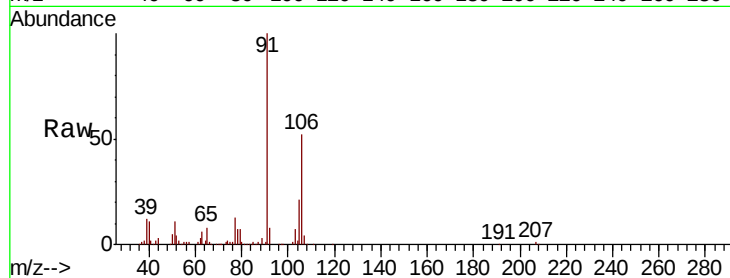




#68
m/p-Xylenes
Concen: 4.532 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. -0.00 min
Lab File: VD064192.D
Acq: 11 Nov 2019 22:04

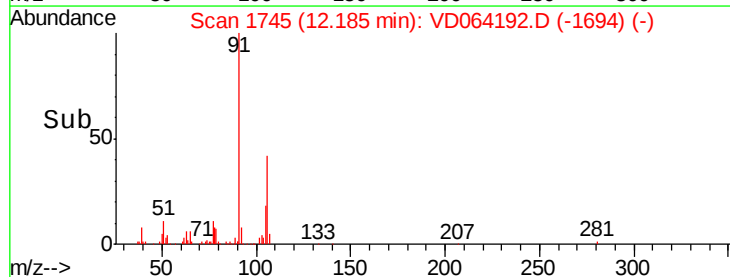
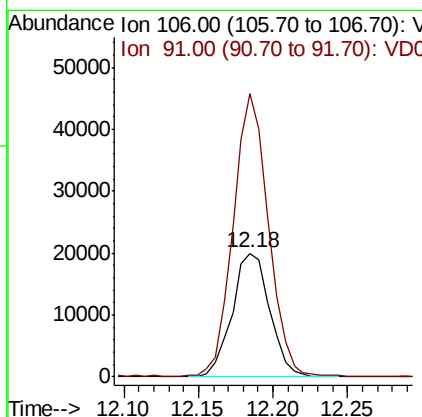
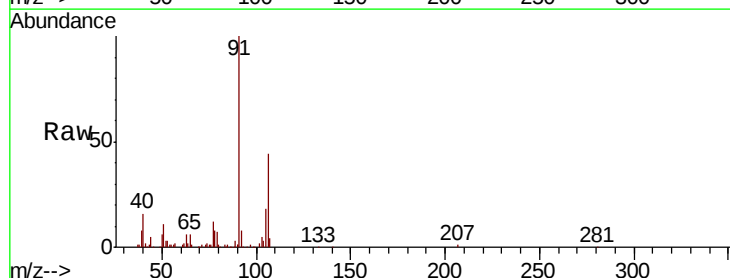
Instrument :
MSVOA_D
ClientSampleId :

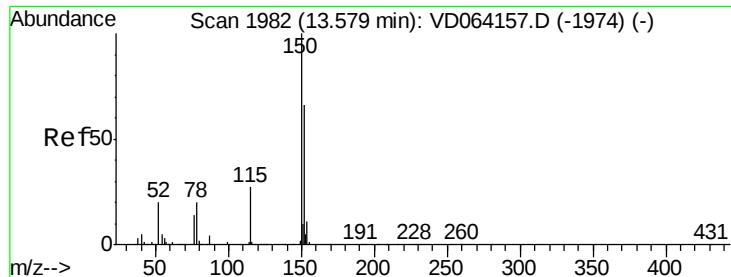
Tot Ion:106 Resp: 64118
Ion Ratio Lower Upper
106 100
91 197.4 160.3 240.5



#69
o-Xylene
Concen: 2.662 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. -0.00 min
Lab File: VD064192.D
Acq: 11 Nov 2019 22:04

Tgt Ion:106 Resp: 34930
Ion Ratio Lower Upper
106 100
91 215.8 105.1 315.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VD064192.D

Acq: 11 Nov 2019 22:04

Instrument :

MSVOA_D

ClientSampleId :

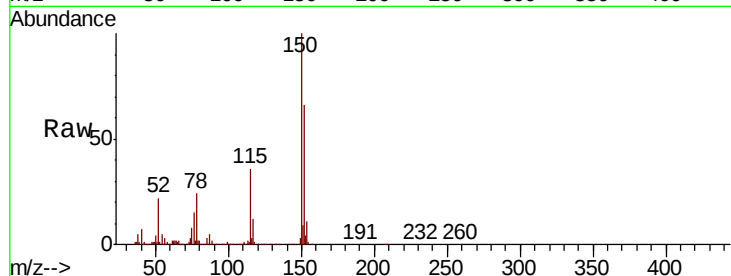
Tot Ion:152 Resp: 519905

Ion Ratio Lower Upper

152 100

115 54.7 27.4 82.2

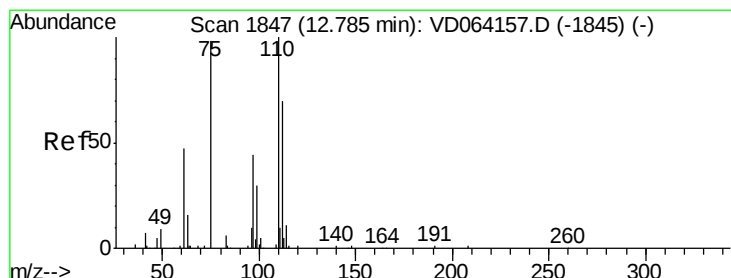
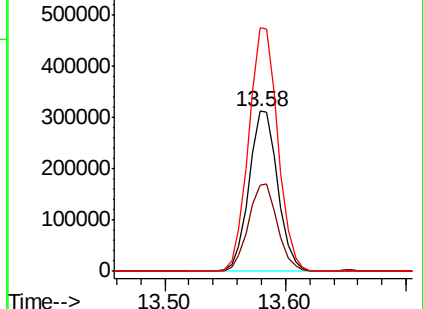
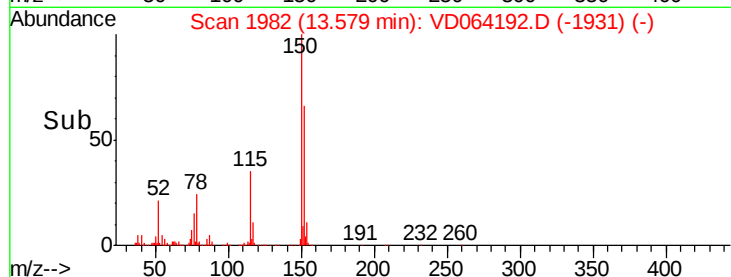
150 154.0 0.0 351.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 58.554 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064192.D

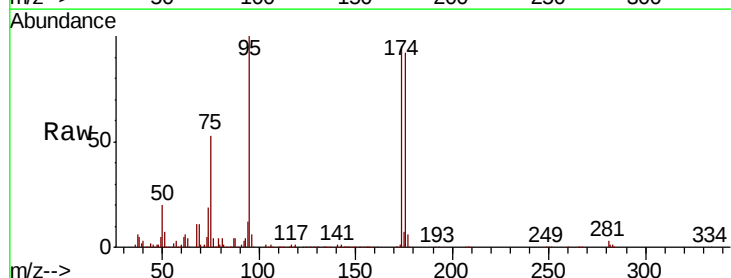
Acq: 11 Nov 2019 22:04

Tgt Ion: 75 Resp: 245207

Ion Ratio Lower Upper

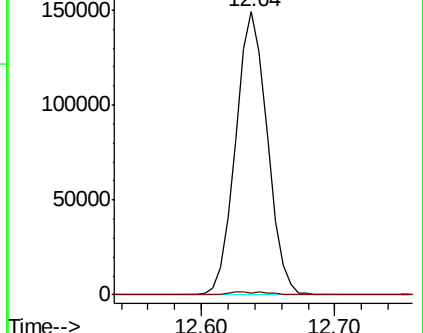
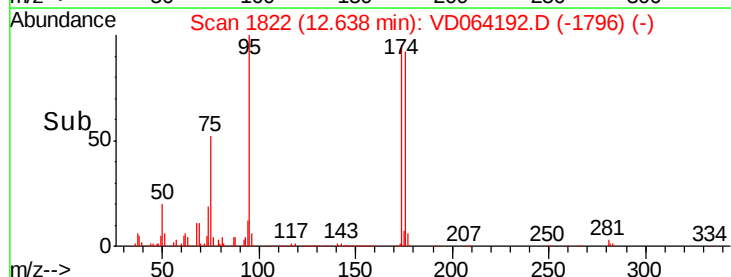
75 100

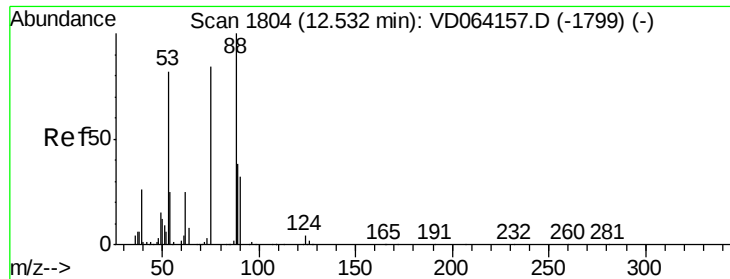
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 116.312 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064192.D

Acq: 11 Nov 2019 22:04

Instrument :

MSVOA_D

ClientSampleId :

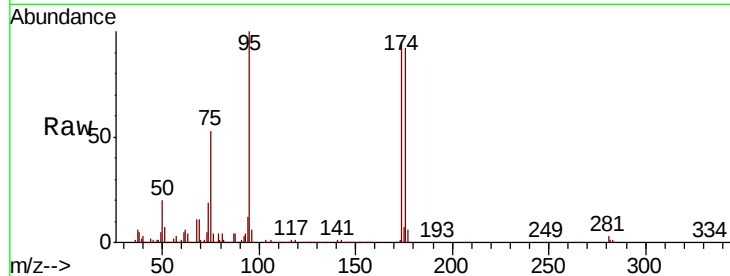
Tot Ion: 75 Resp: 245207

Ion Ratio Lower Upper

75 100

53 0.1 79.4 119.0#

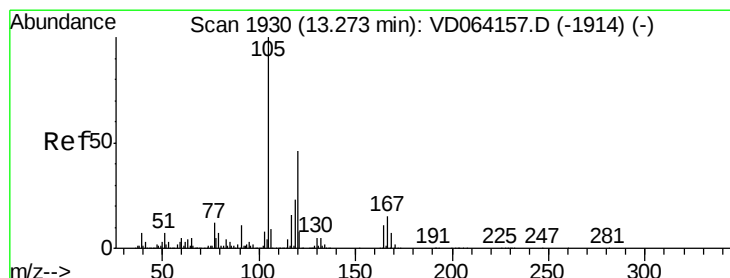
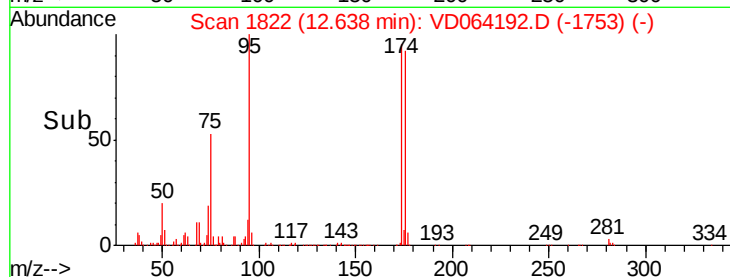
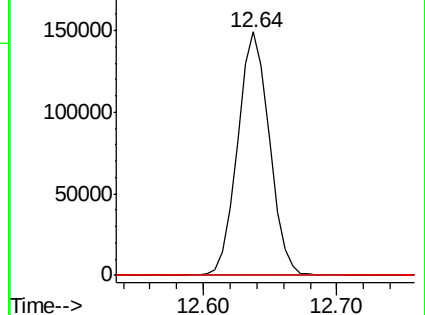
89 0.2 36.6 55.0#



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



#84

1,2,4-Trimethylbenzene

Concen: 1.518 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. -0.00 min

Lab File: VD064192.D

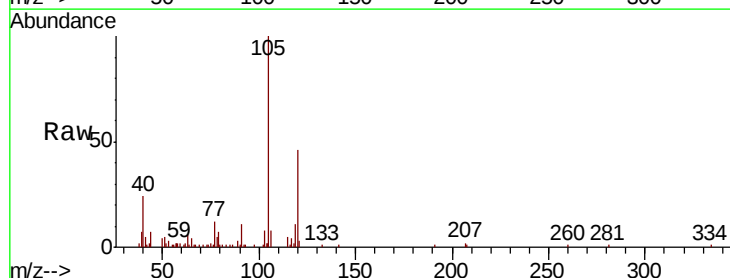
Acq: 11 Nov 2019 22:04

Tgt Ion:105 Resp: 47004

Ion Ratio Lower Upper

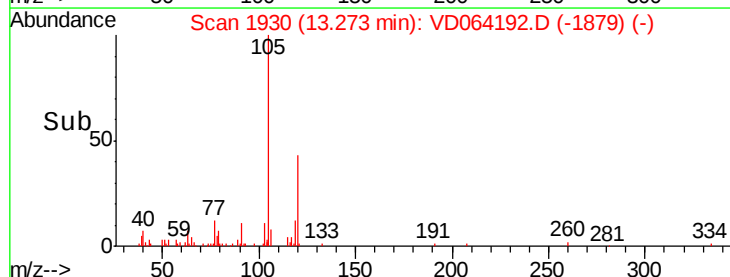
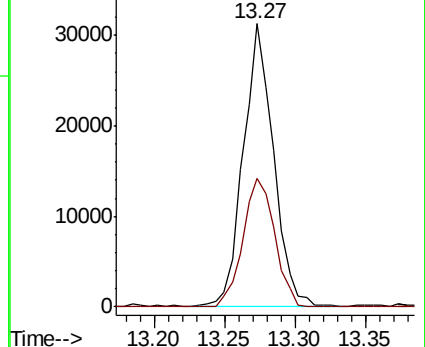
105 100

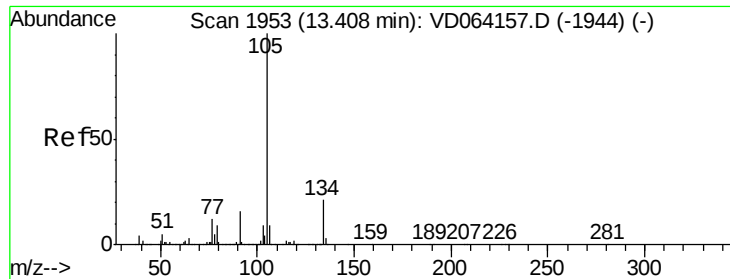
120 47.4 23.3 69.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

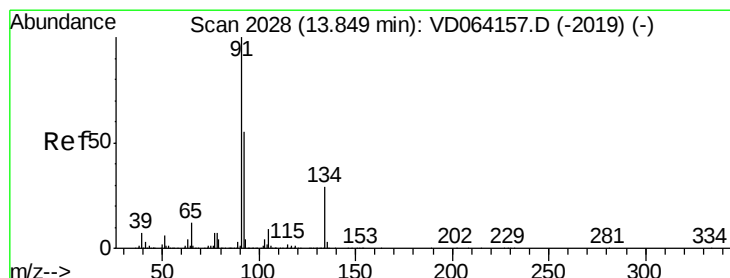
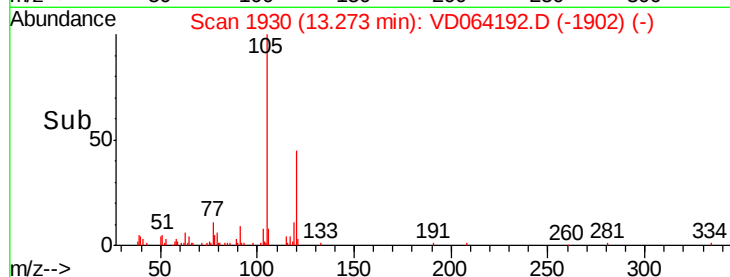
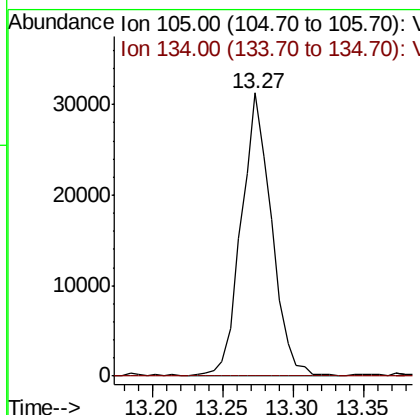
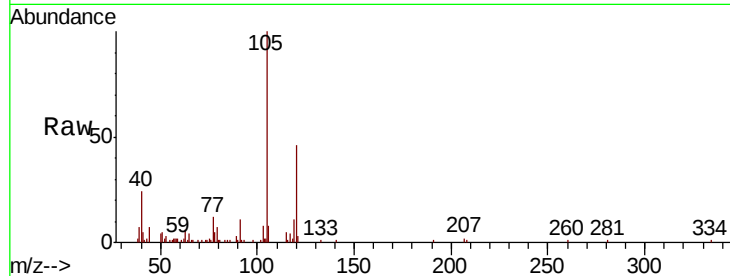




#85
 sec-Butylbenzene
 Concen: 1.266 ug/l
 RT: 13.27 min Scan# 1930
 Delta R.T. -0.14 min
 Lab File: VD064192.D
 Acq: 11 Nov 2019 22:04

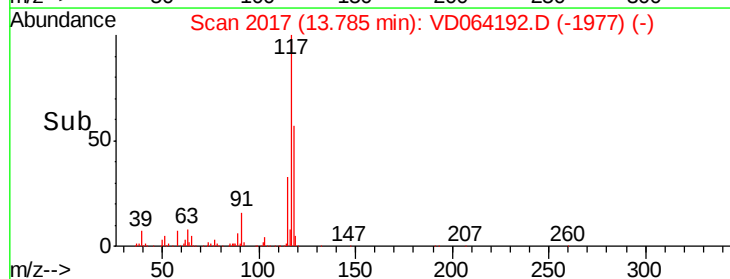
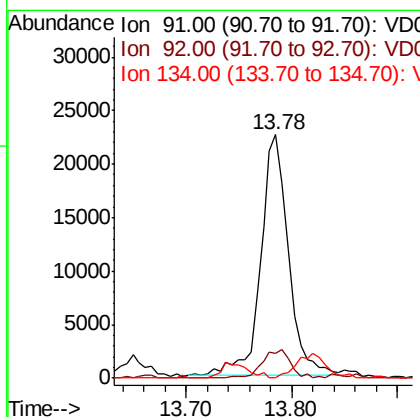
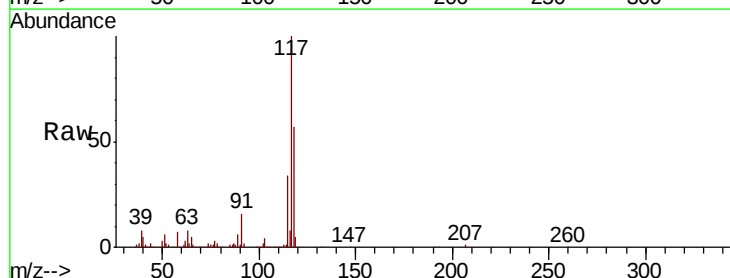
Instrument :
 MSVOA_D
 ClientSampleId :

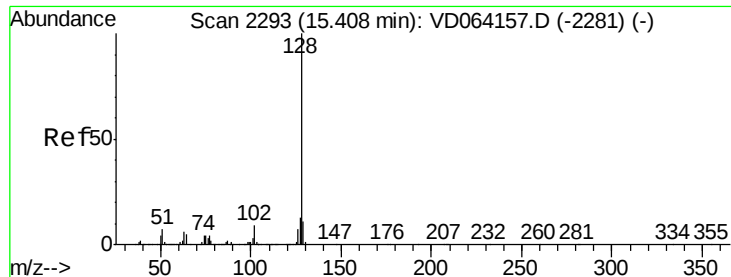
Tot Ion:105 Resp: 47004
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.7 31.9#



#89
 n-Butylbenzene
 Concen: 1.297 ug/l
 RT: 13.78 min Scan# 2017
 Delta R.T. -0.06 min
 Lab File: VD064192.D
 Acq: 11 Nov 2019 22:04

Tgt Ion: 91 Resp: 41374
 Ion Ratio Lower Upper
 91 100
 92 11.9 27.3 81.8#
 134 0.0 14.1 42.4#

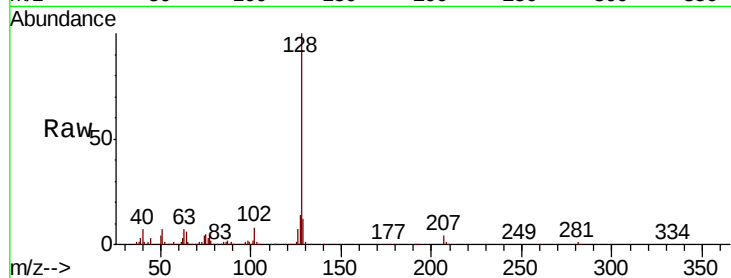




#95
Naphthalene
Concen: 12.066 ug/l
RT: 15.41 min Scan# 2293
Delta R.T. -0.00 min
Lab File: VD064192.D
Acq: 11 Nov 2019 22:04

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.5	15.7
129	11.7	8.6	13.0



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

