

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD122719\
 Data File : VD064640.D
 Acq On : 27 Dec 2019 12:59
 Operator : VA/SY
 Sample : K6437-07RE
 Misc : 6.37G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 GP-5-(5-6)

Quant Time: Dec 30 00:57:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 24 13:19:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	469417	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	707250	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	577306	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	287800	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.34	65	216593	52.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.66%	
35) Dibromofluoromethane	7.92	113	220251	50.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.52%	
50) Toluene-d8	10.34	98	817169	49.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.34%	
62) 4-Bromofluorobenzene	12.63	95	279038	53.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.20%	

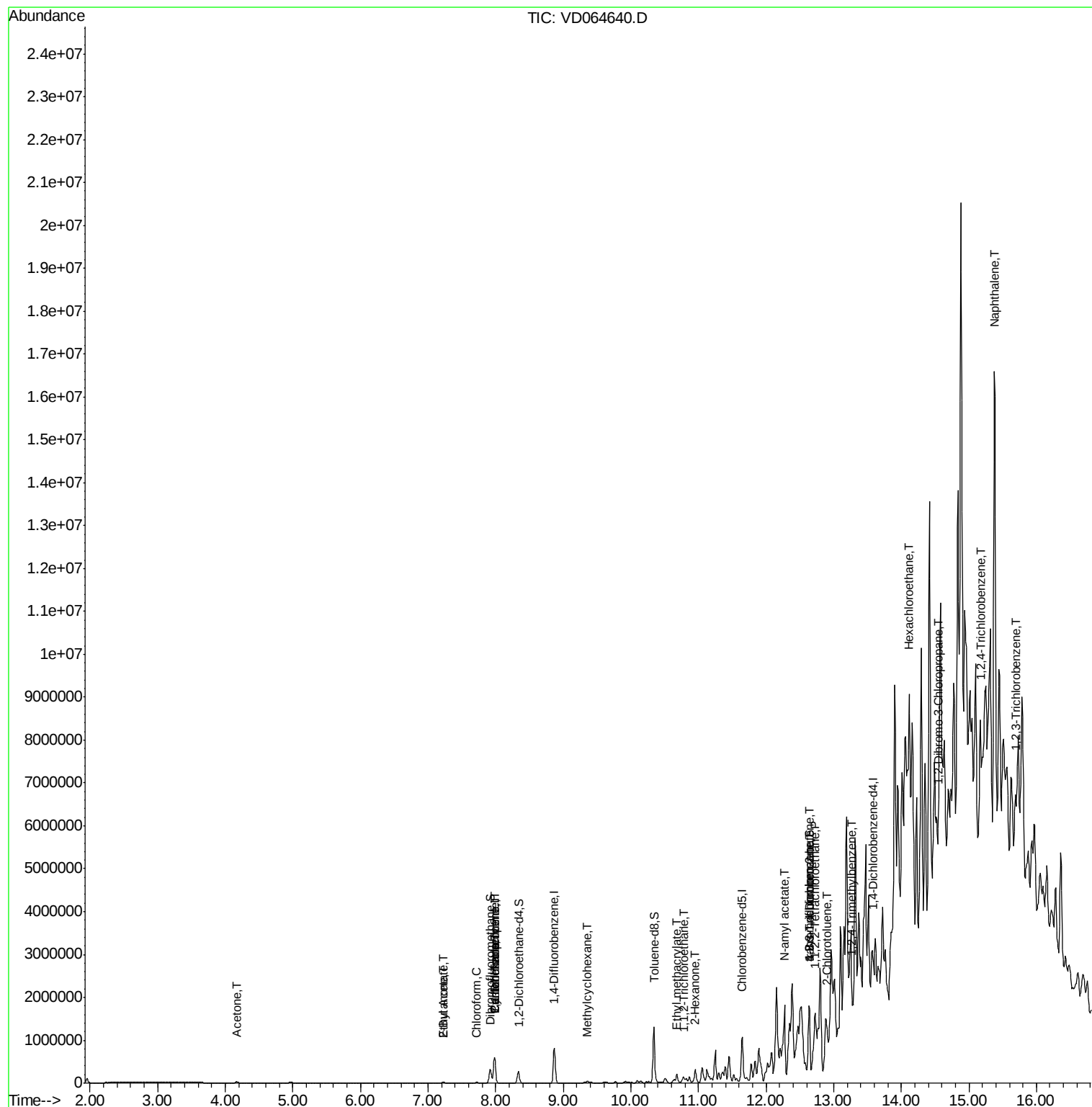
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	4.17	43	54402	60.336	ug/l	100
20) Methylene Chloride	4.96	84	12096	Below Cal		94
25) 2-Butanone	7.23	43	21890	19.239	ug/l	97
30) Chloroform	7.71	83	12336	1.525	ug/l	95
31) Cyclohexane	7.98	56	11847	1.535	ug/l #	18
36) 1,1-Dichloropropene	7.98	75	32414	4.762	ug/l #	51
37) Ethyl Acetate	7.23	43	21890	8.186	ug/l #	72
38) Carbon Tetrachloride	7.98	117	44666	6.154	ug/l #	16
39) Methylcyclohexane	9.36	83	9150	1.110	ug/l	90
55) 1,1,2-Trichloroethane	10.78	97	42103	12.629	ug/l #	27
56) Ethyl methacrylate	10.68	69	17739	4.261	ug/l #	1
59) 2-Hexanone	10.96	43	125693	70.389	ug/l #	31
74) N-amyl acetate	12.27	43	458004	104.176	ug/l #	59
75) 1,1,2,2-Tetrachloroethane	12.72	83	68473	21.193	ug/l #	19
76) 1,2,3-Trichloropropane	12.64	75	121703	53.551	ug/l #	100
79) 2-Chlorotoluene	12.91	91	17334	1.315	ug/l #	39
81) trans-1,4-Dichloro-2-buten	12.64	75	121703	112.001	ug/l #	21
84) 1,2,4-Trimethylbenzene	13.28	105	25713	1.528	ug/l	96
90) Hexachloroethane	14.13	117	9360	2.548	ug/l #	6
92) 1,2-Dibromo-3-Chloropropan	14.54	75	2166	4.135	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.18	180	19510	3.226	ug/l #	1
95) Naphthalene	15.38	128	32272	3.373	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.68	180	38486	7.453	ug/l	72

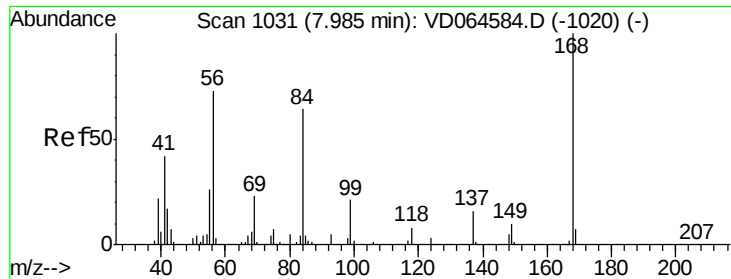
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Dec 24 13:19:06 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064640.D

Acq: 27 Dec 2019 12:59

Instrument :

MSVOA_D

ClientSampleId :

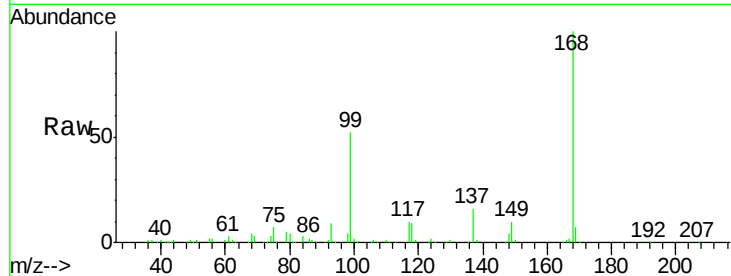
GP-5-(5-6)

Tgt Ion:168 Resp: 469417

Ion Ratio Lower Upper

168 100

99 52.2 41.8 62.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

250000

200000

150000

100000

50000

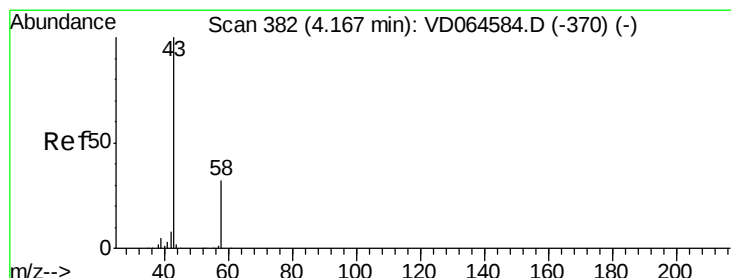
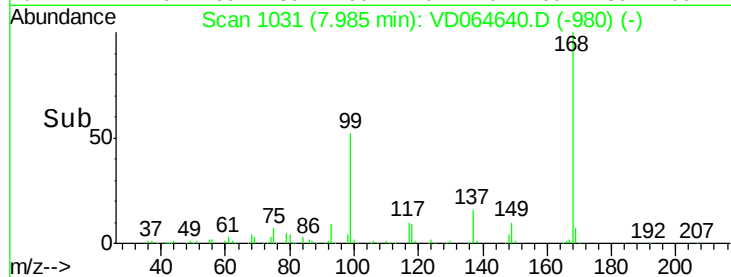
0

7.90

8.00

8.10

Time-->



#16

Acetone

Concen: 60.336 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.01 min

Lab File: VD064640.D

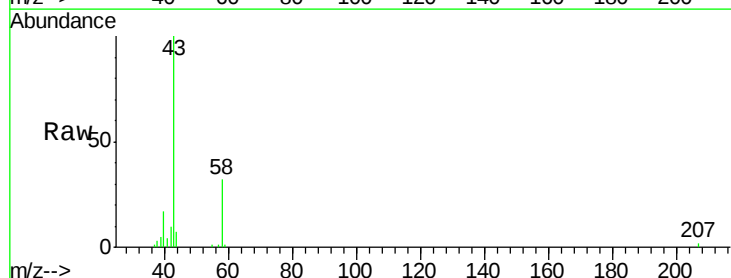
Acq: 27 Dec 2019 12:59

Tgt Ion: 43 Resp: 54402

Ion Ratio Lower Upper

43 100

58 32.1 25.8 38.6



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

20000

15000

10000

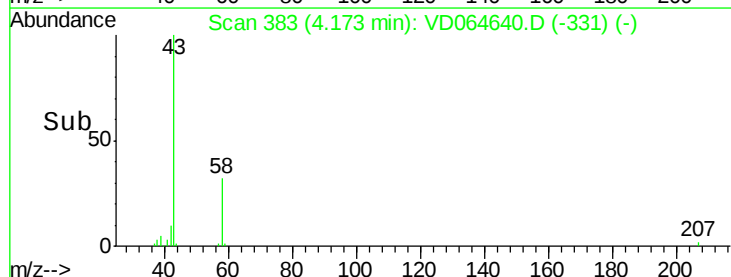
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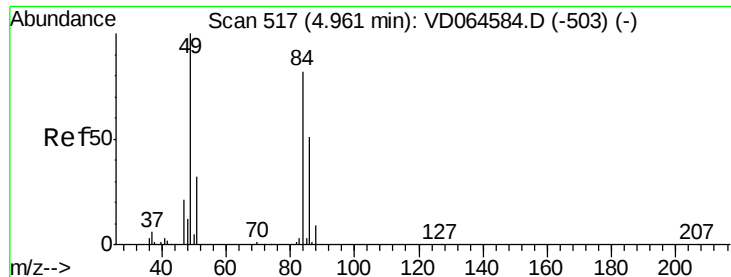
0

4.10

4.20

Time-->





#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 517

Delta R.T. 0.00 min

Lab File: VD064640.D

Acq: 27 Dec 2019 12:59

Instrument :

MSVOA_D

ClientSampleId :

GP-5-(5-6)

Tgt Ion: 84 Resp: 12096

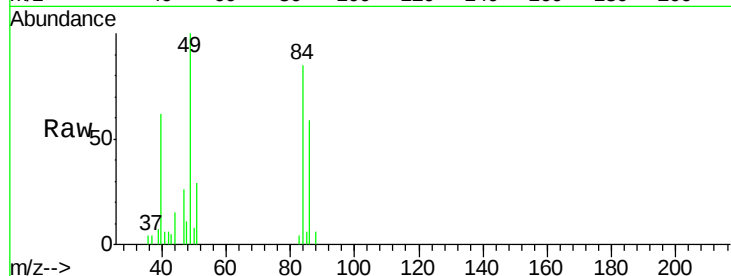
Ion Ratio Lower Upper

84 100

49 117.3 97.2 145.8

51 34.2 31.4 47.0

86 69.5 49.3 73.9

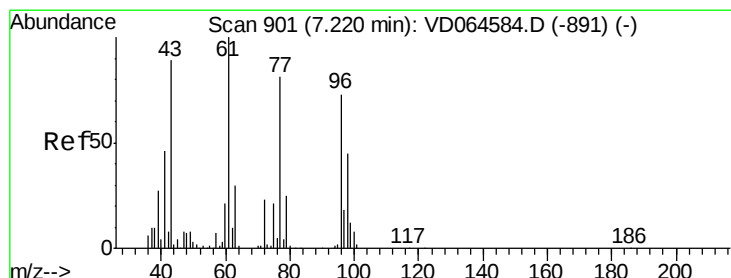
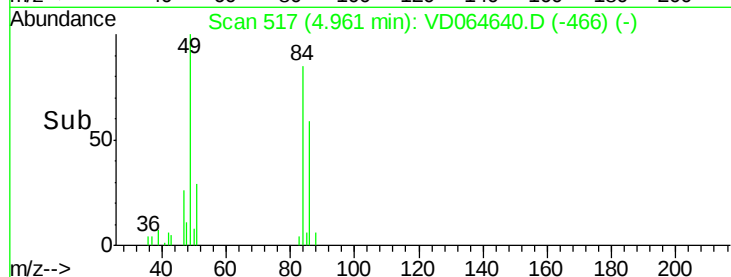
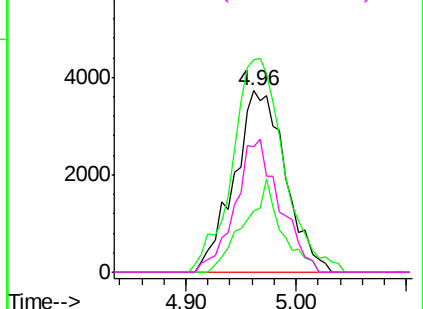


Abundance Ion 83.90 (83.60 to 84.60): VDC

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



#25

2-Butanone

Concen: 19.239 ug/l

RT: 7.23 min Scan# 902

Delta R.T. 0.01 min

Lab File: VD064640.D

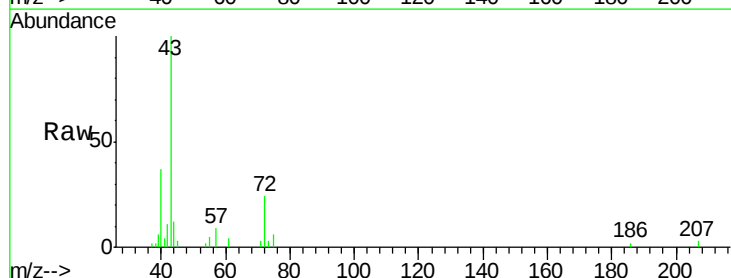
Acq: 27 Dec 2019 12:59

Tgt Ion: 43 Resp: 21890

Ion Ratio Lower Upper

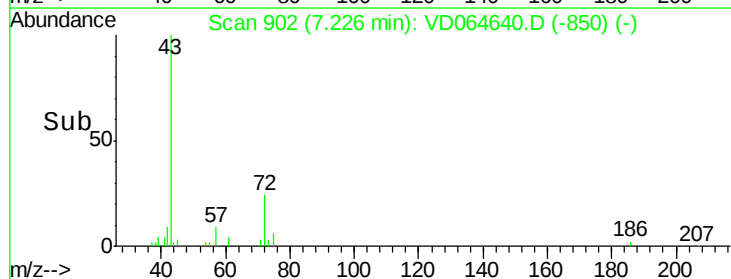
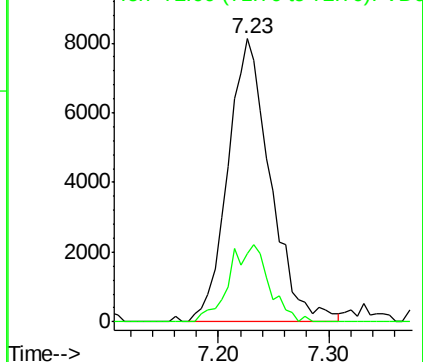
43 100

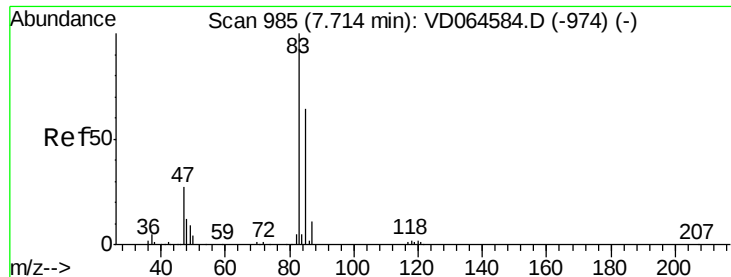
72 24.1 20.7 31.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

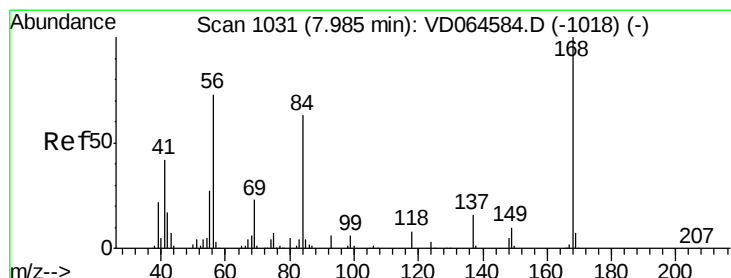
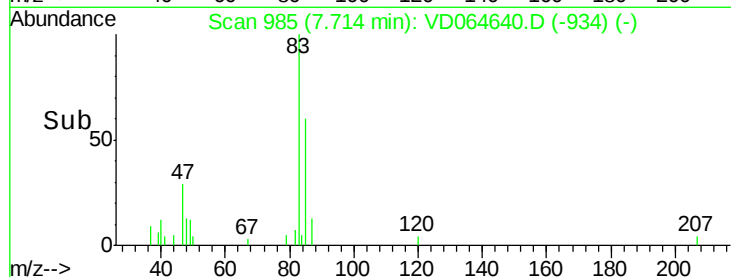
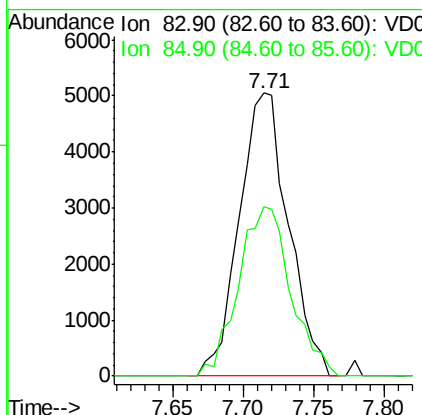
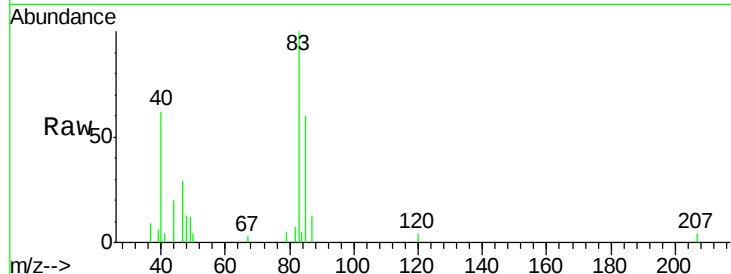




#30
Chloroform
Concen: 1.525 ug/l
RT: 7.71 min Scan# 985
Delta R.T. 0.00 min
Lab File: VD064640.D
Acq: 27 Dec 2019 12:59

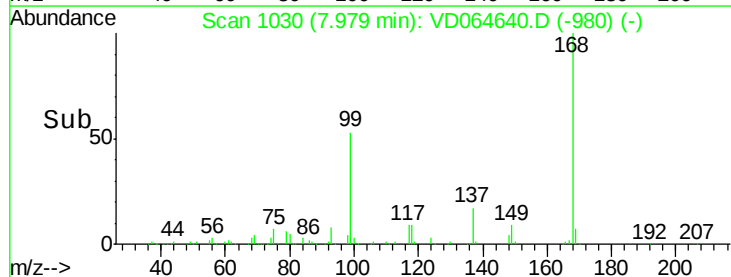
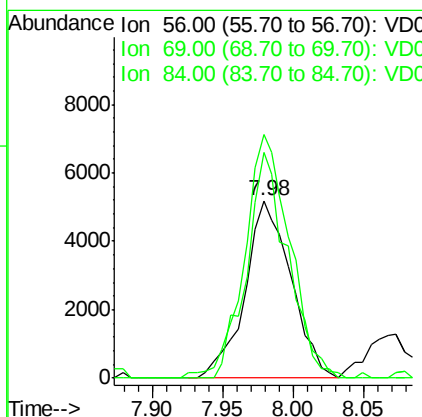
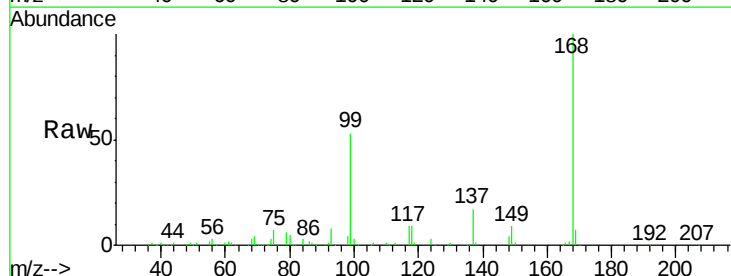
Instrument :
MSVOA_D
ClientSampleId :
GP-5-(5-6)

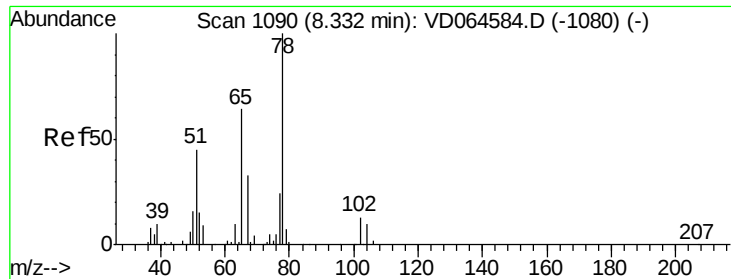
Tgt Ion: 83 Resp: 12336
Ion Ratio Lower Upper
83 100
85 59.9 51.1 76.7



#31
Cyclohexane
Concen: 1.535 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD064640.D
Acq: 27 Dec 2019 12:59

Tgt Ion: 56 Resp: 11847
Ion Ratio Lower Upper
56 100
69 134.3 24.7 37.1#
84 127.2 69.4 104.2#

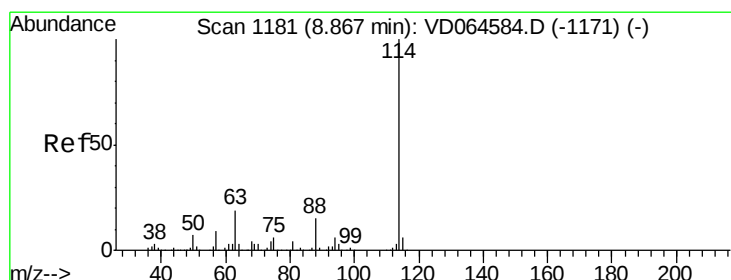
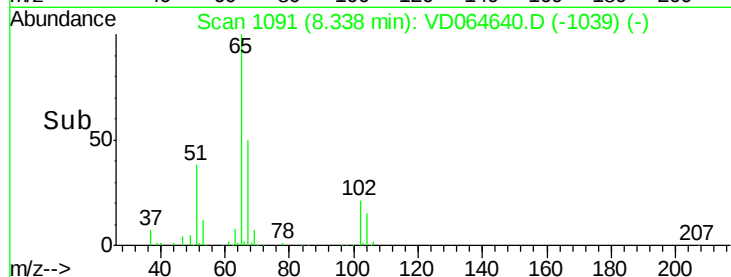
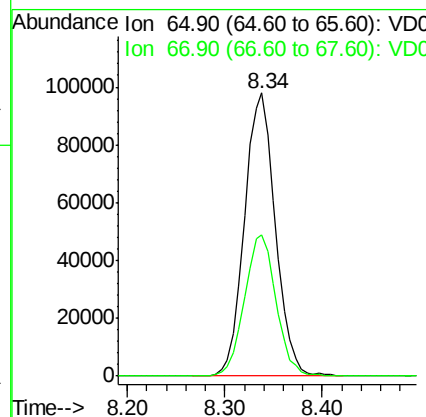
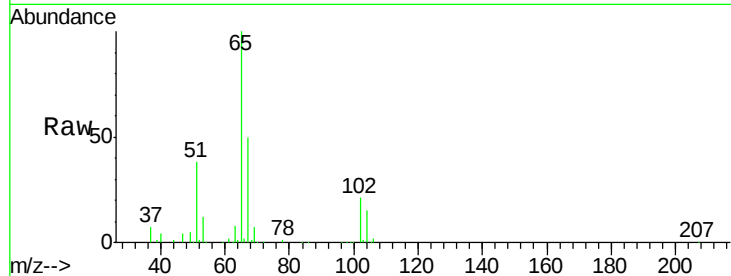




#33
 1,2-Dichloroethane-d4
 Concen: 52.326 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. 0.01 min
 Lab File: VD064640.D
 Acq: 27 Dec 2019 12:59

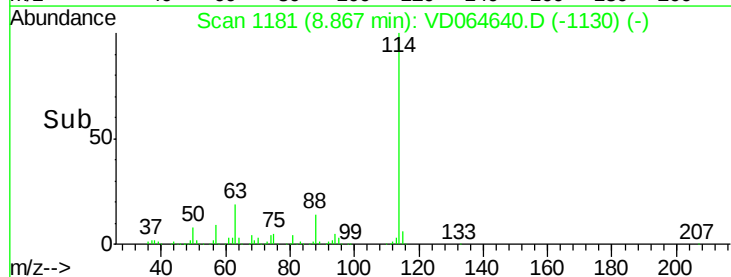
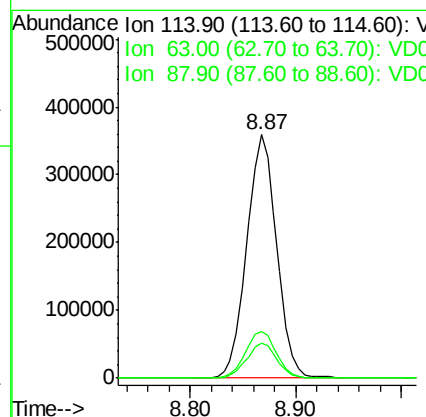
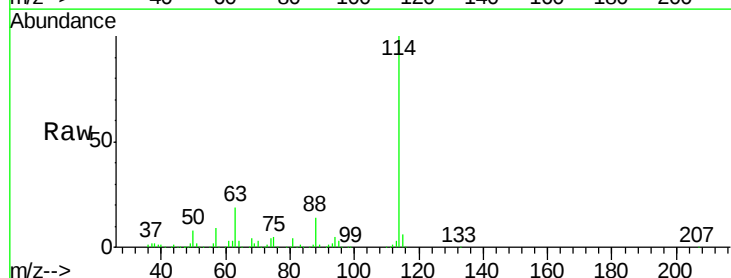
Instrument :
 MSVOA_D
 ClientSampled :
 GP-5-(5-6)

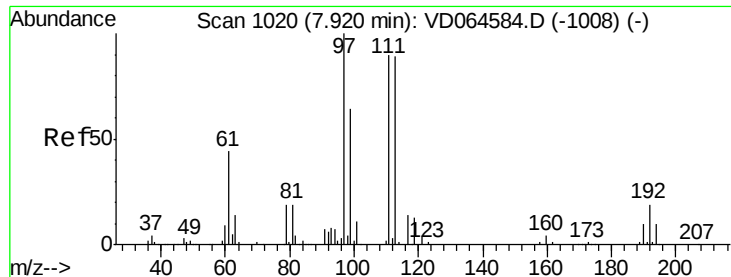
Tgt Ion: 65 Resp: 216593
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064640.D
 Acq: 27 Dec 2019 12:59

Tgt Ion: 114 Resp: 707250
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 38.0
 88 14.2 0.0 29.2

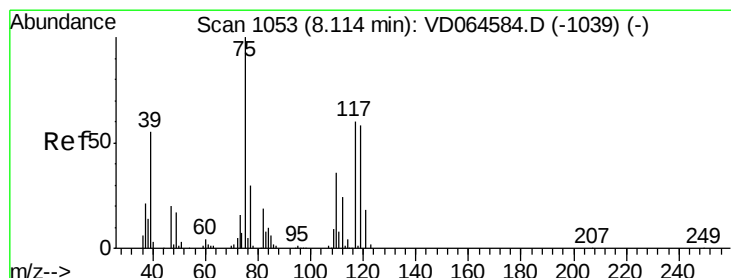
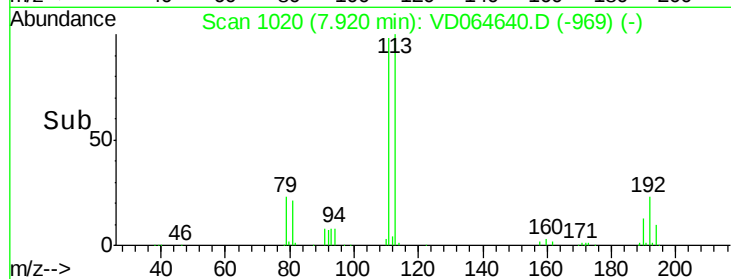
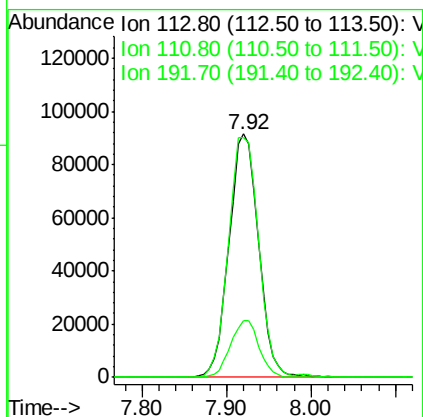
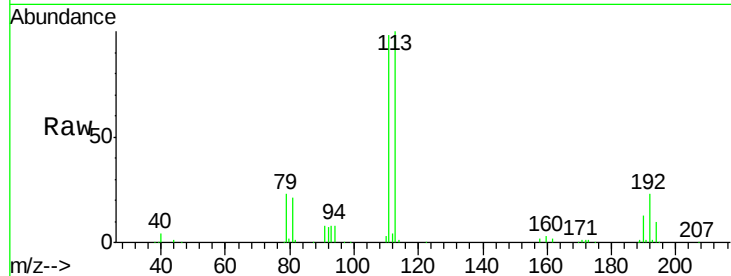




#35
 Dibromofluoromethane
 Concen: 50.760 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064640.D
 Acq: 27 Dec 2019 12:59

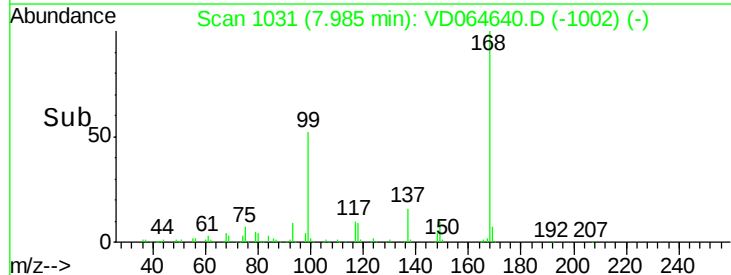
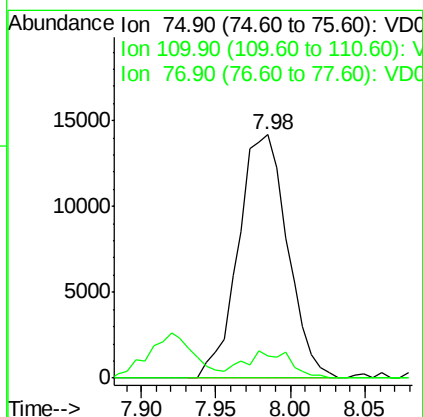
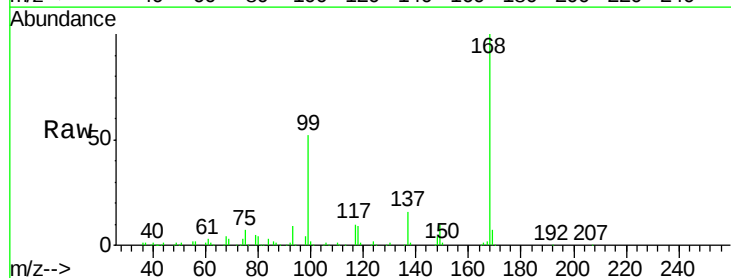
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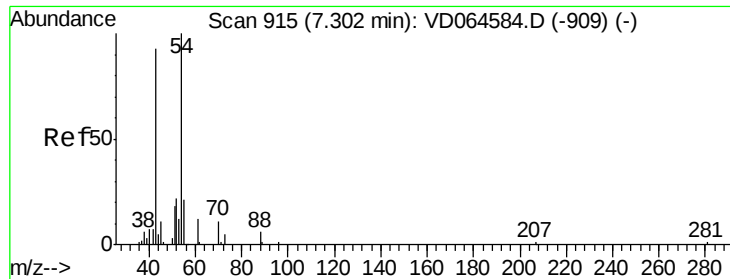
Tgt Ion:113 Resp: 220251
 Ion Ratio Lower Upper
 113 100
 111 100.5 80.6 121.0
 192 22.5 17.9 26.9



#36
 1,1-Dichloropropene
 Concen: 4.762 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD064640.D
 Acq: 27 Dec 2019 12:59

Tgt Ion: 75 Resp: 32414
 Ion Ratio Lower Upper
 75 100
 110 10.3 18.1 54.1#
 77 0.0 24.2 36.4#

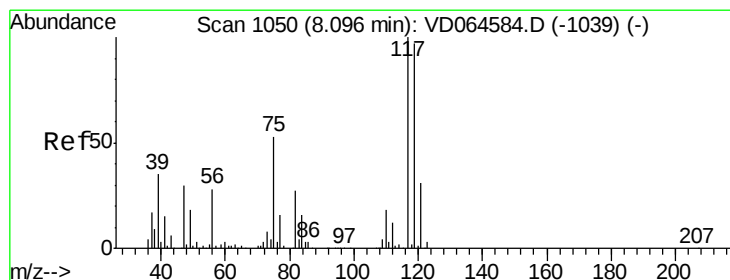
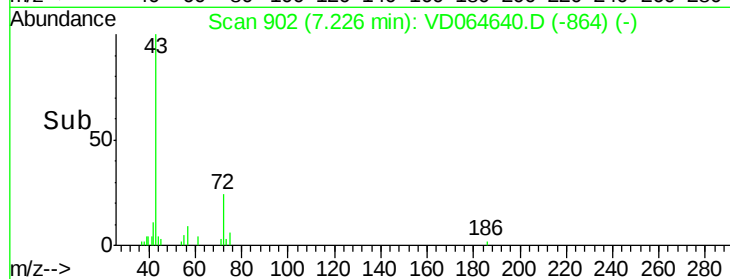
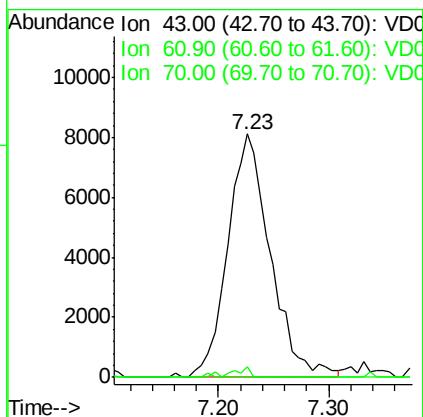
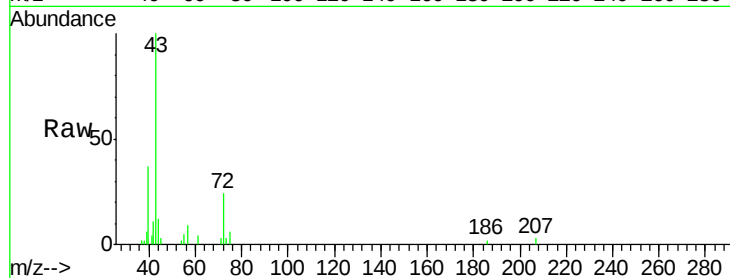




#37
 Ethyl Acetate
 Concen: 8.186 ug/l
 RT: 7.23 min Scan# 902
 Delta R.T. -0.08 min
 Lab File: VD064640.D
 Acq: 27 Dec 2019 12:59

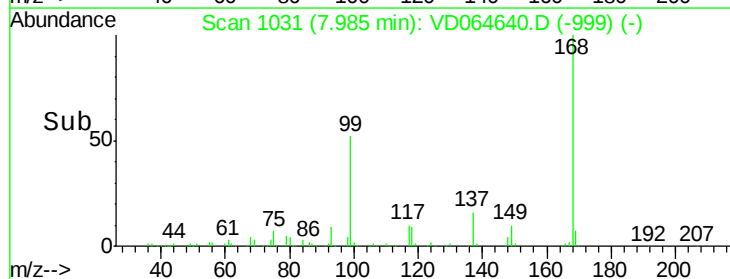
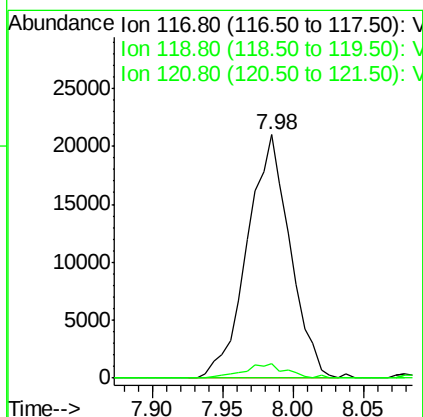
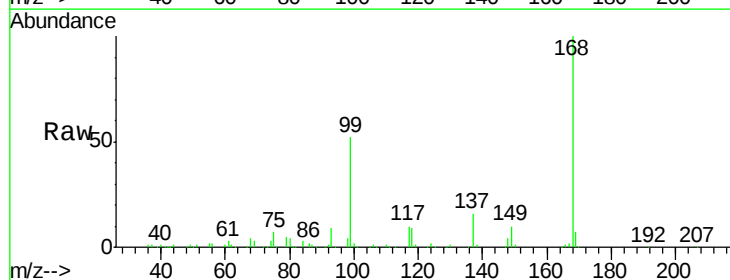
Instrument :
 MSVOA_D
 ClientSampleID :
 GP-5-(5-6)

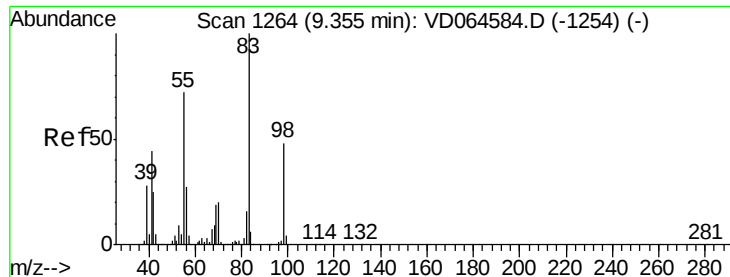
Tgt Ion: 43 Resp: 21890
 Ion Ratio Lower Upper
 43 100
 61 1.4 10.3 15.5#
 70 0.0 7.6 11.4#



#38
 Carbon Tetrachloride
 Concen: 6.154 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.11 min
 Lab File: VD064640.D
 Acq: 27 Dec 2019 12:59

Tgt Ion: 117 Resp: 44666
 Ion Ratio Lower Upper
 117 100
 119 5.8 77.3 115.9#
 121 0.0 25.0 37.6#





#39

Methylcyclohexane

Concen: 1.110 ug/l

RT: 9.36 min Scan# 1264

Delta R.T. 0.00 min

Lab File: VD064640.D

Acq: 27 Dec 2019 12:59

Instrument :

MSVOA_D

ClientSampleId :

GP-5-(5-6)

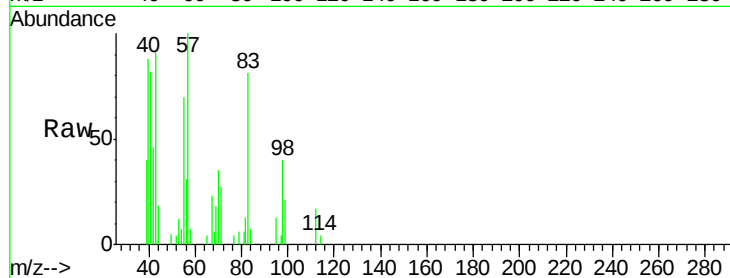
Tgt Ion: 83 Resp: 9150

Ion Ratio Lower Upper

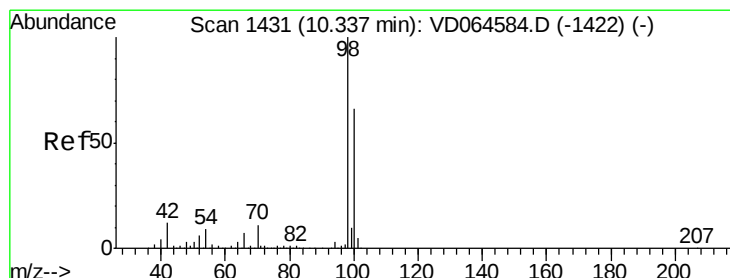
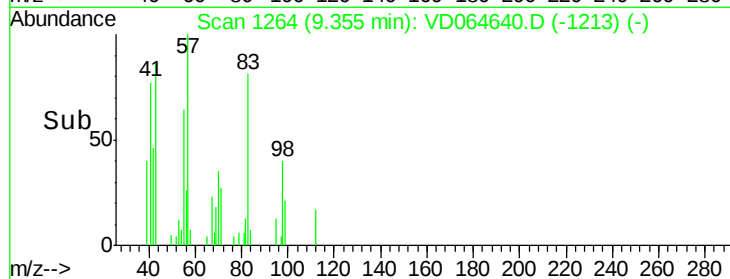
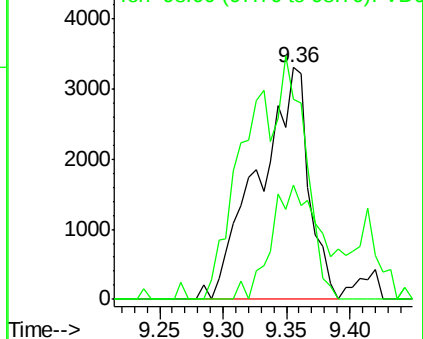
83 100

55 86.2 57.8 86.6

98 49.2 38.7 58.1



Abundance Ion 83.00 (82.70 to 83.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.00 (97.70 to 98.70): VDC



#50

Toluene-d8

Concen: 49.173 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.01 min

Lab File: VD064640.D

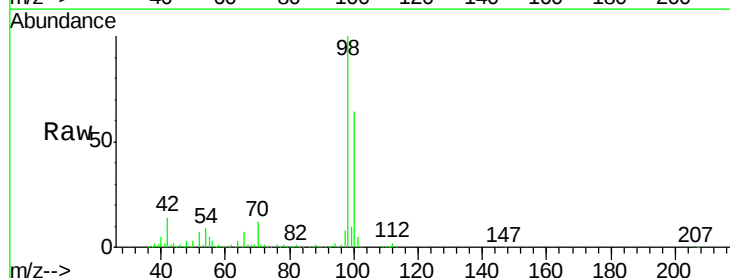
Acq: 27 Dec 2019 12:59

Tgt Ion: 98 Resp: 817169

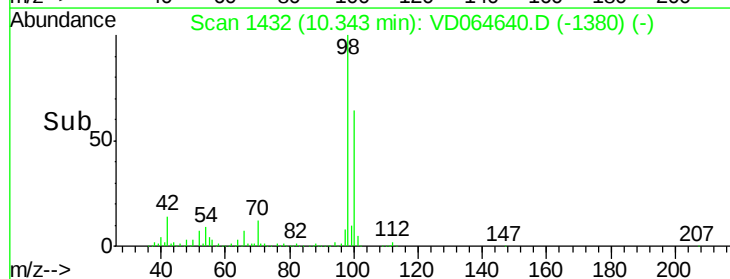
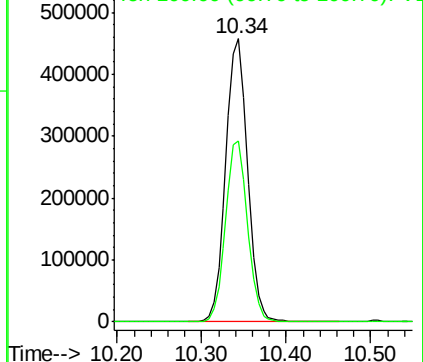
Ion Ratio Lower Upper

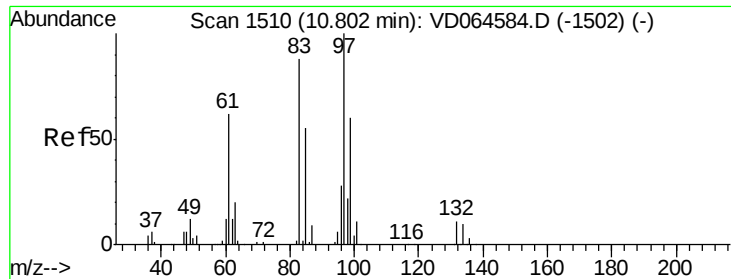
98 100

100 64.0 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VDC
Ion 100.00 (99.70 to 100.70): VDC





#55

1,1,2-Trichloroethane

Concen: 12.629 ug/l

RT: 10.78 min Scan# 1506

Delta R.T. -0.02 min

Lab File: VD064640.D

Acq: 27 Dec 2019 12:59

Instrument :

MSVOA_D

ClientSampleId :

GP-5-(5-6)

Tgt Ion: 97 Resp: 42103

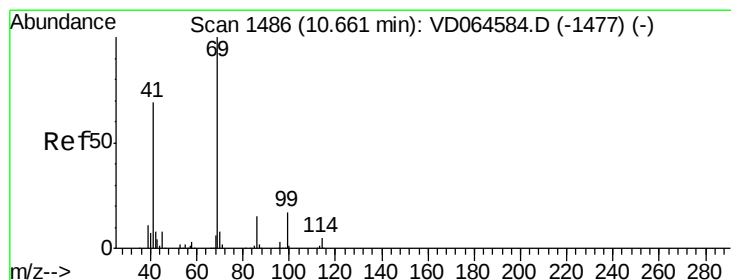
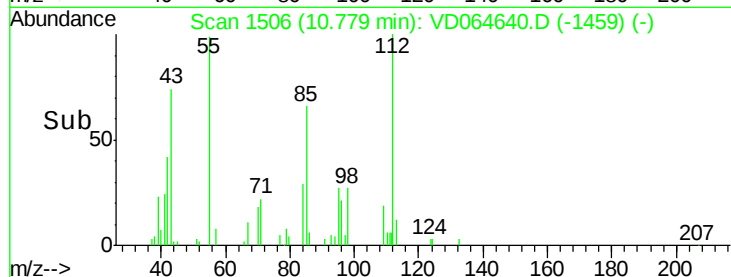
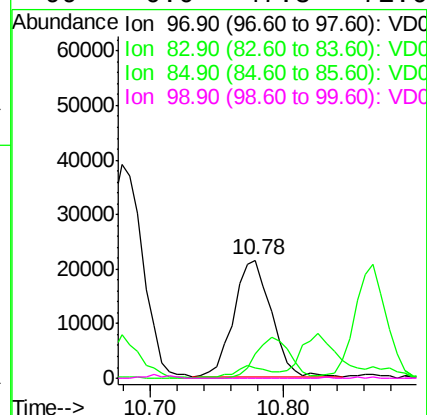
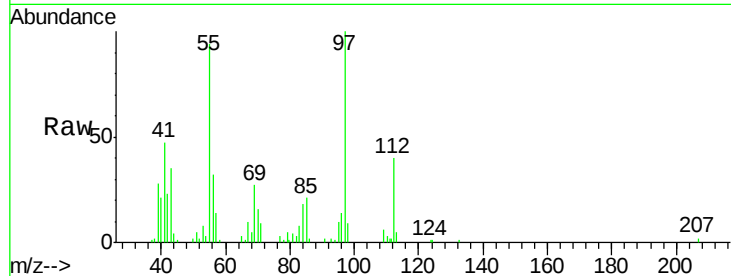
Ion Ratio Lower Upper

97 100

83 8.3 70.2 105.4#

85 21.4 44.0 66.0#

99 0.0 47.8 71.6#



#56

Ethyl methacrylate

Concen: 4.261 ug/l

RT: 10.68 min Scan# 1490

Delta R.T. 0.02 min

Lab File: VD064640.D

Acq: 27 Dec 2019 12:59

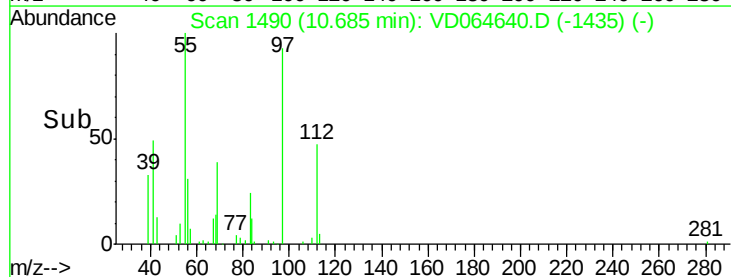
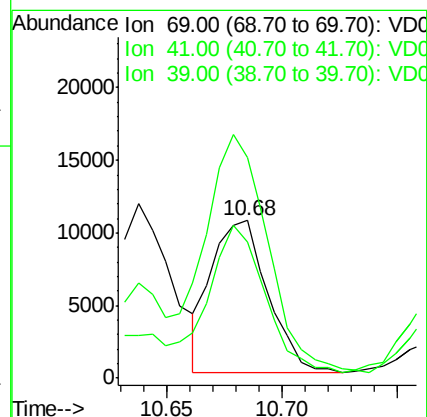
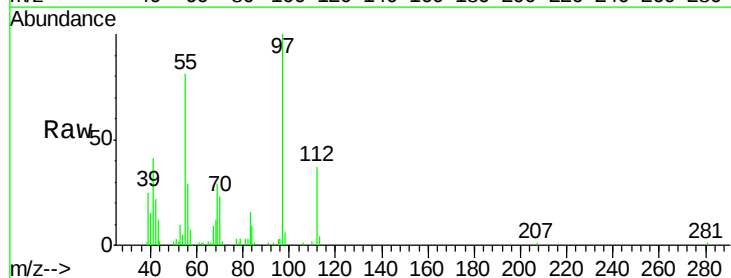
Tgt Ion: 69 Resp: 17739

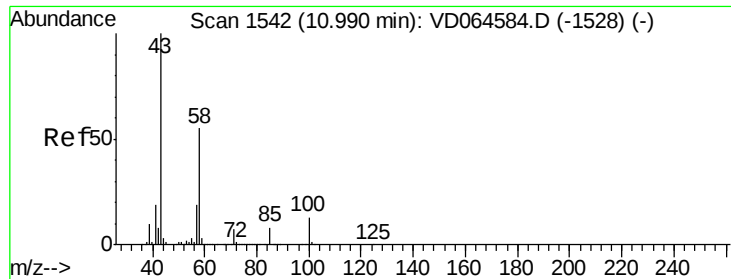
Ion Ratio Lower Upper

69 100

41 173.5 55.3 82.9#

39 98.2 33.8 50.8#

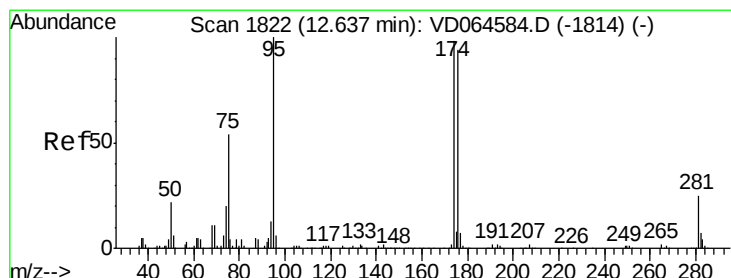
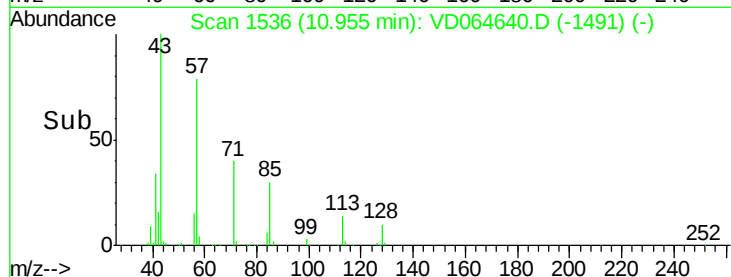
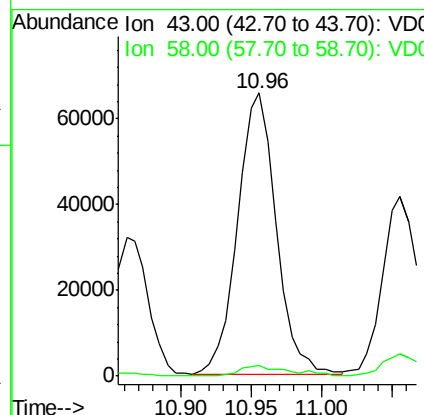
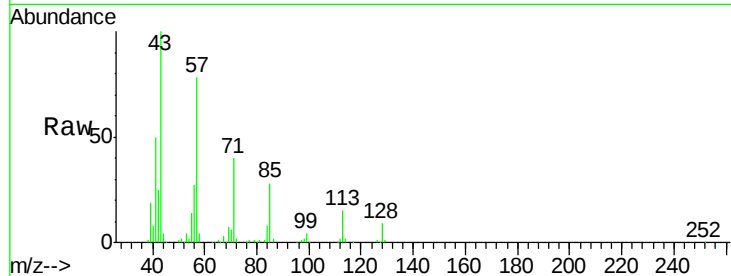




#59
2-Hexanone
Concen: 70.389 ug/l
RT: 10.96 min Scan# 1536
Delta R.T. -0.04 min
Lab File: VD064640.D
Acq: 27 Dec 2019 12:59

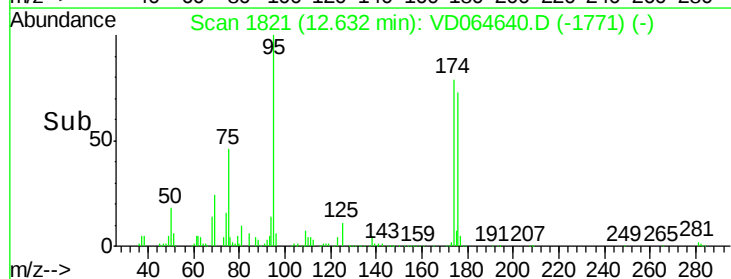
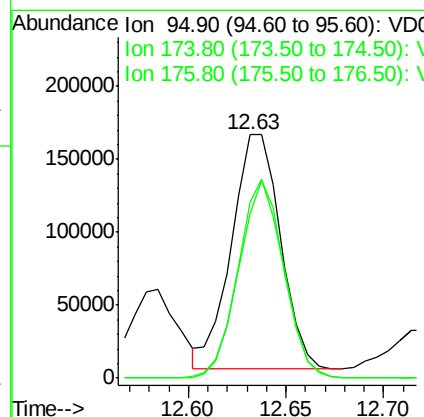
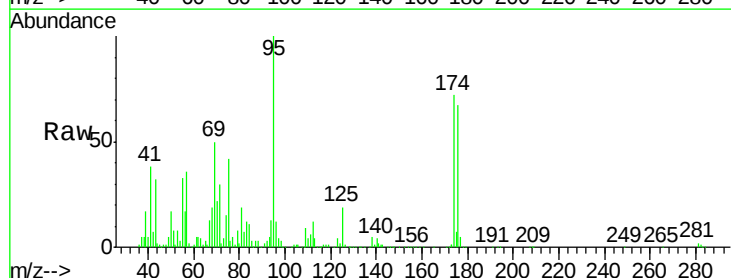
Instrument :
MSVOA_D
ClientSampleId :
GP-5-(5-6)

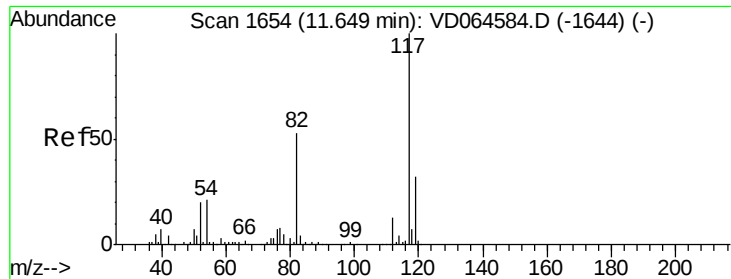
Tgt Ion: 43 Resp: 125693
Ion Ratio Lower Upper
43 100
58 4.1 26.4 79.0#



#62
4-Bromofluorobenzene
Concen: 53.101 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. -0.01 min
Lab File: VD064640.D
Acq: 27 Dec 2019 12:59

Tgt Ion: 95 Resp: 279038
Ion Ratio Lower Upper
95 100
174 79.1 0.0 193.2
176 77.8 0.0 184.2

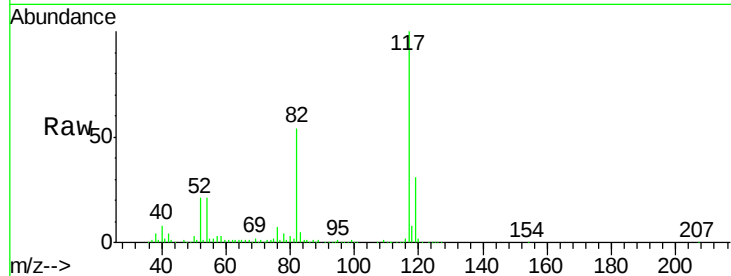




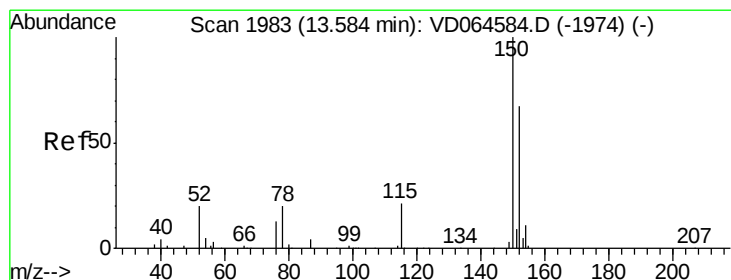
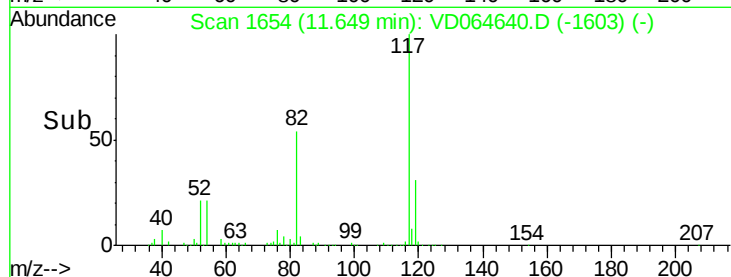
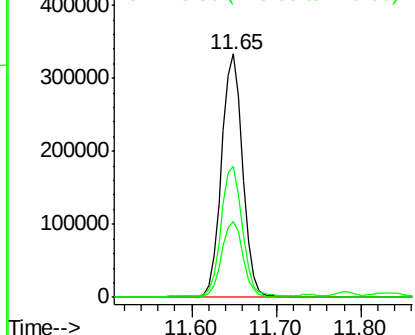
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064640.D
Acq: 27 Dec 2019 12:59

Instrument :
MSVOA_D
ClientSampleId :
GP-5-(5-6)

Tgt Ion:117 Resp: 577306
Ion Ratio Lower Upper
117 100
82 53.3 42.2 63.4
119 31.2 26.0 39.0

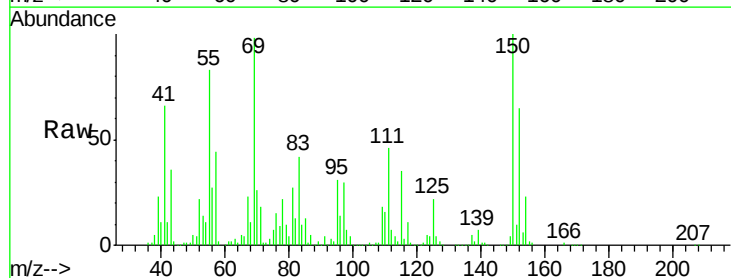


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

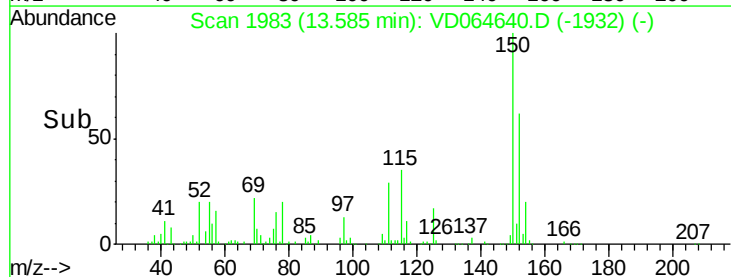
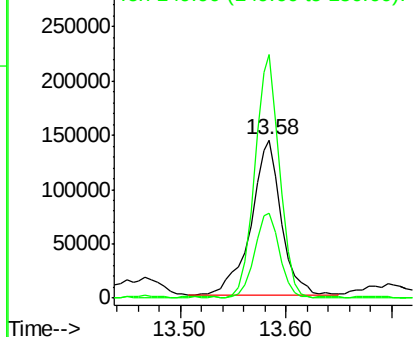


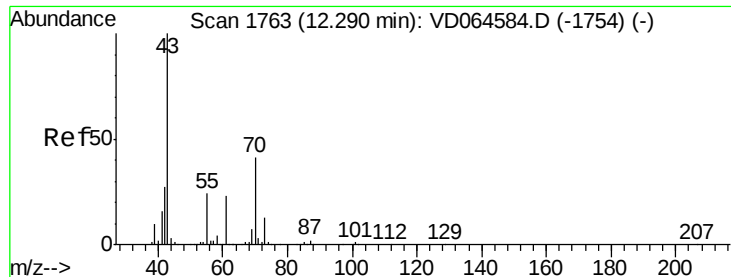
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD064640.D
Acq: 27 Dec 2019 12:59

Tgt Ion:152 Resp: 287800
Ion Ratio Lower Upper
152 100
115 45.1 27.8 83.4
150 125.6 0.0 351.4



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





#74

N-amyI acetate

Concen: 104.176 ug/l

RT: 12.27 min Scan# 1760

Delta R.T. -0.02 min

Lab File: VD064640.D

Acq: 27 Dec 2019 12:59

Instrument :

MSVOA_D

ClientSampleId :

GP-5-(5-6)

Tgt Ion: 43 Resp: 458004

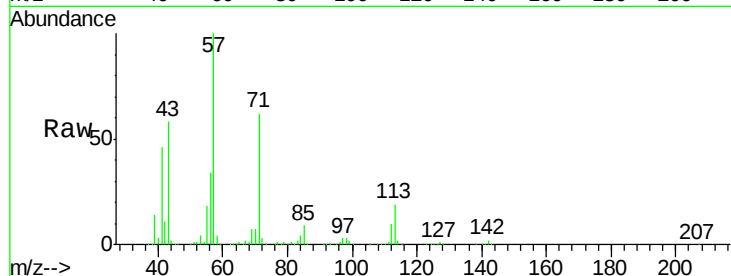
Ion Ratio Lower Upper

43 100

70 20.7 33.4 50.0#

55 0.0 19.4 29.0#

61 0.0 18.3 27.5#

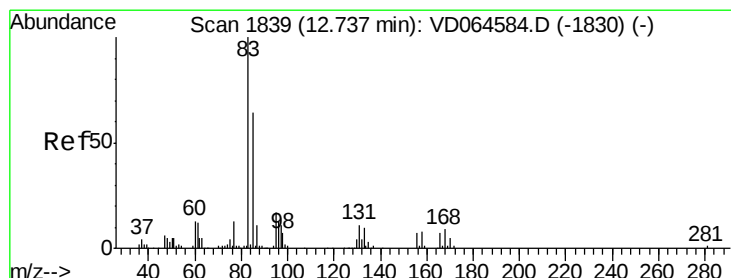
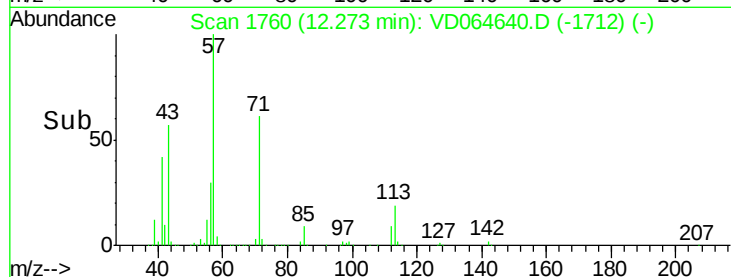
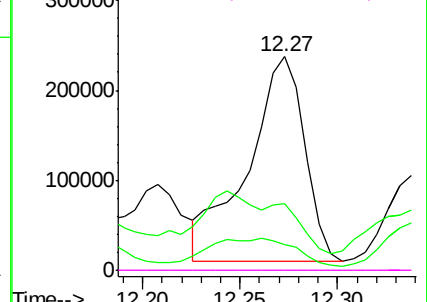


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC



#75

1,1,2,2-Tetrachloroethane

Concen: 21.193 ug/l

RT: 12.72 min Scan# 1836

Delta R.T. -0.02 min

Lab File: VD064640.D

Acq: 27 Dec 2019 12:59

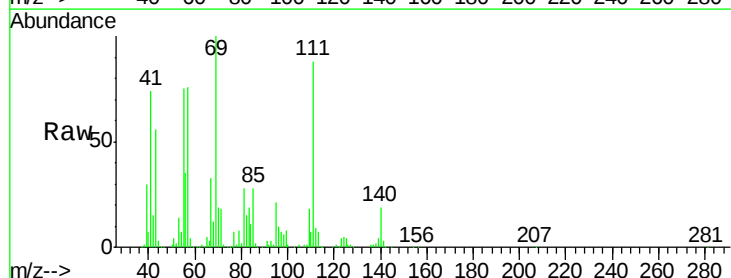
Tgt Ion: 83 Resp: 68473

Ion Ratio Lower Upper

83 100

131 0.0 5.8 17.4#

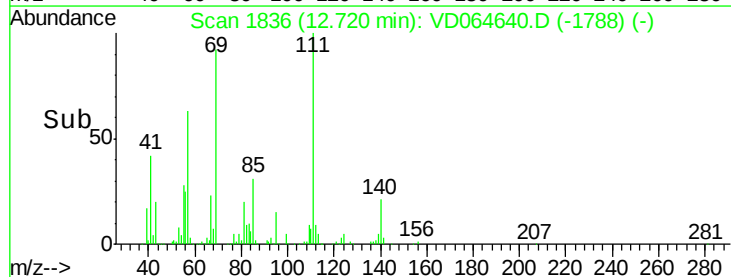
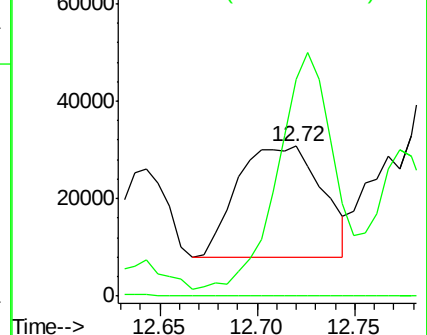
85 135.3 32.3 96.9#

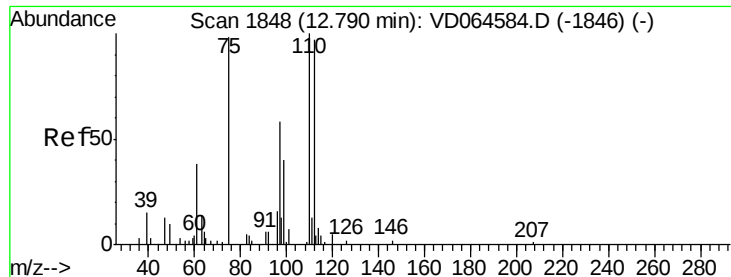


Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VDC

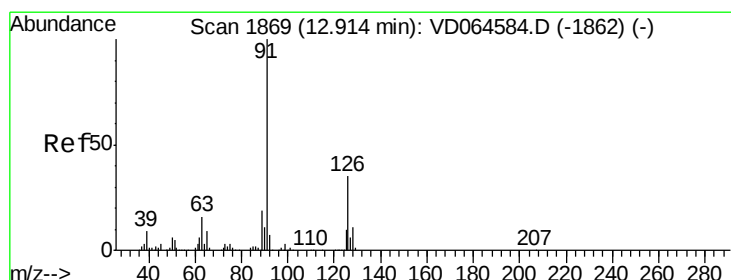
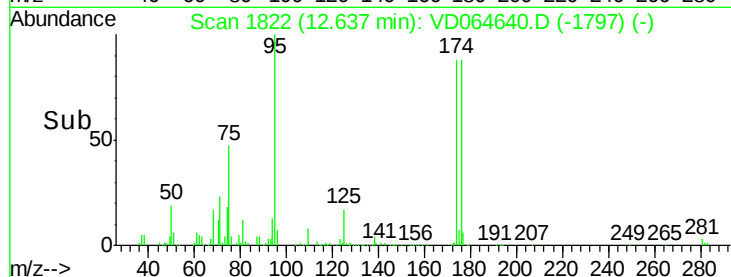
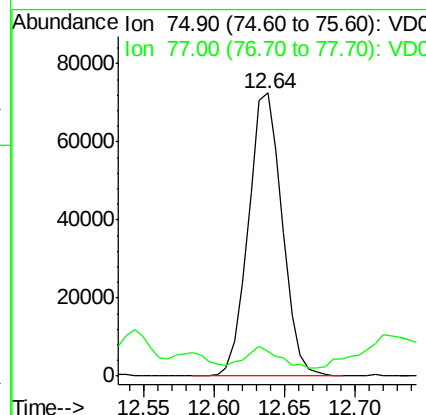
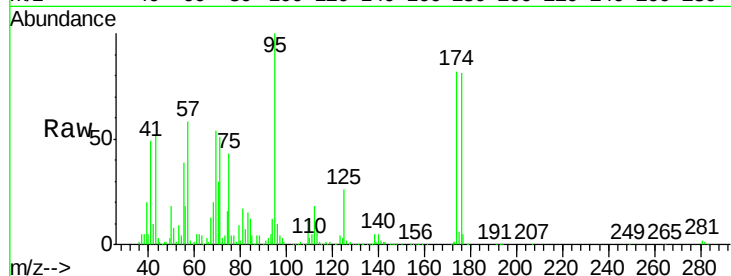




#76
 1,2,3-Trichloropropane
 Concen: 53.551 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.15 min
 Lab File: VD064640.D
 Acq: 27 Dec 2019 12:59

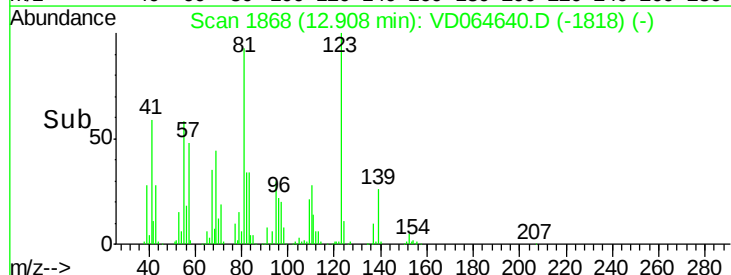
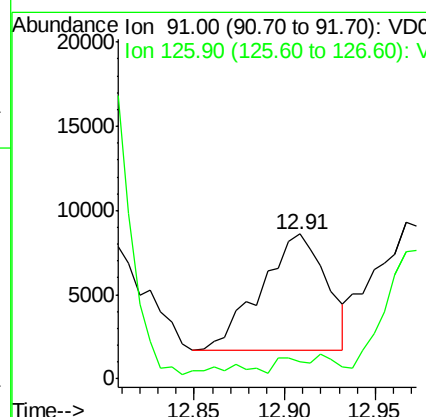
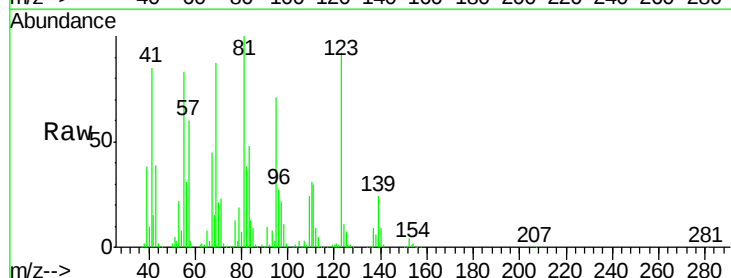
Instrument :
 MSVOA_D
 ClientSampleId :
 GP-5-(5-6)

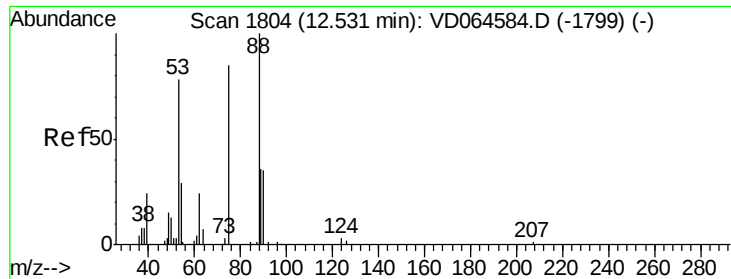
Tgt Ion: 75 Resp: 121703
 Ion Ratio Lower Upper
 75 100
 77 7.1 0.0 0.0#



#79
 2-Chlorotoluene
 Concen: 1.315 ug/l
 RT: 12.91 min Scan# 1868
 Delta R.T. -0.01 min
 Lab File: VD064640.D
 Acq: 27 Dec 2019 12:59

Tgt Ion: 91 Resp: 17334
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.8 53.5#





#81

trans-1,4-Dichloro-2-butene

Concen: 112.001 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064640.D

Acq: 27 Dec 2019 12:59

Instrument :

MSVOA_D

ClientSampleId :

GP-5-(5-6)

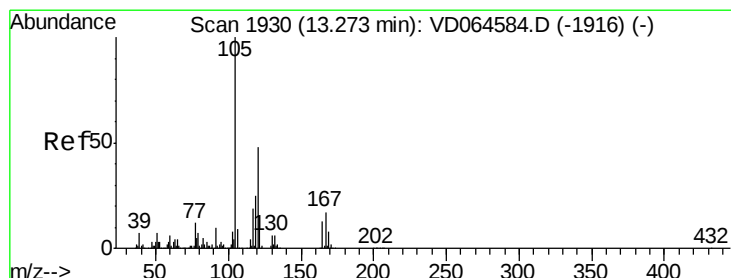
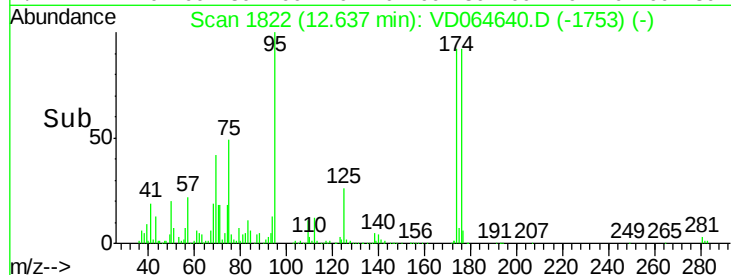
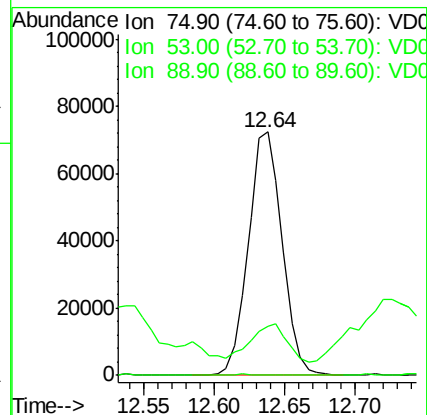
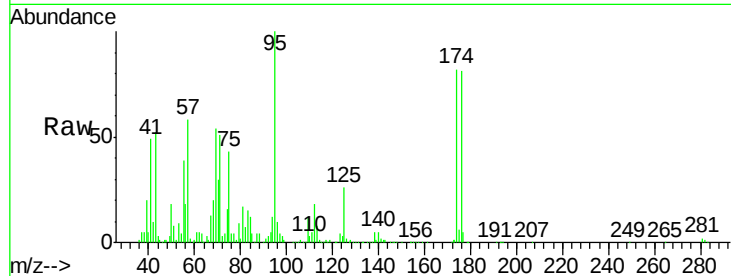
Tgt Ion: 75 Resp: 121703

Ion Ratio Lower Upper

75 100

53 16.2 78.8 118.2#

89 0.0 38.3 57.5#



#84

1,2,4-Trimethylbenzene

Concen: 1.528 ug/l

RT: 13.28 min Scan# 1931

Delta R.T. 0.01 min

Lab File: VD064640.D

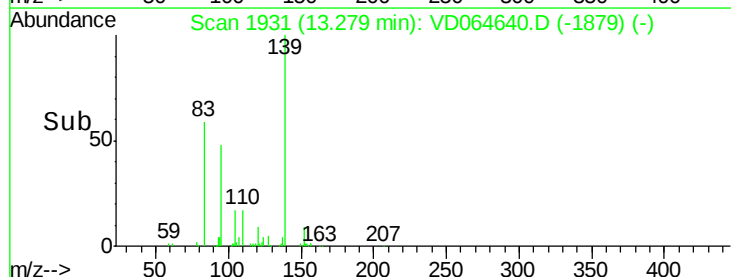
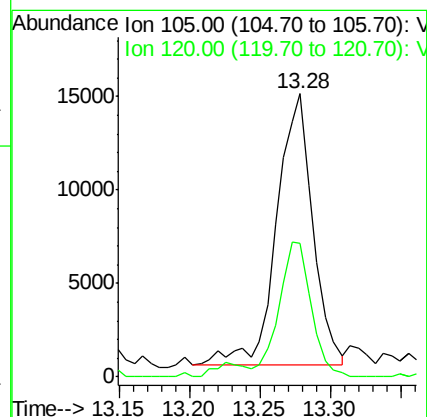
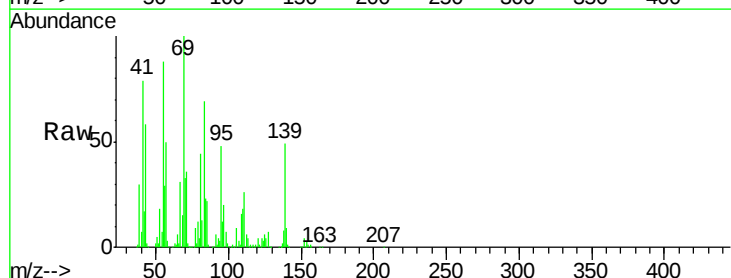
Acq: 27 Dec 2019 12:59

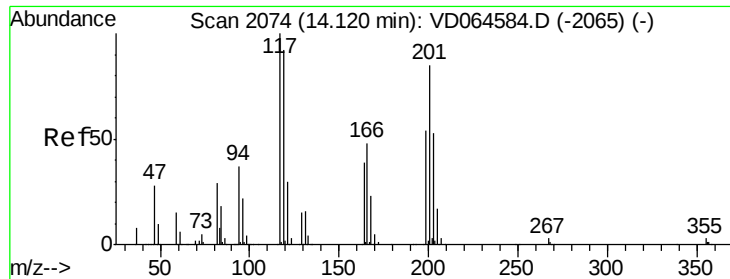
Tgt Ion: 105 Resp: 25713

Ion Ratio Lower Upper

105 100

120 44.6 23.8 71.2





#90

Hexachloroethane

Concen: 2.548 ug/l

RT: 14.13 min Scan# 2075

Delta R.T. 0.01 min

Lab File: VD064640.D

Acq: 27 Dec 2019 12:59

Instrument :

MSVOA_D

ClientSampleId :

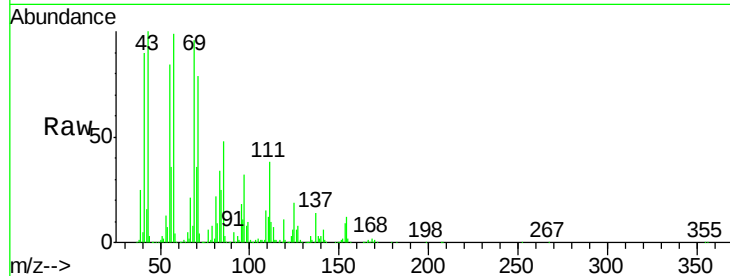
GP-5-(5-6)

Tgt Ion: 117 Resp: 9360

Ion Ratio Lower Upper

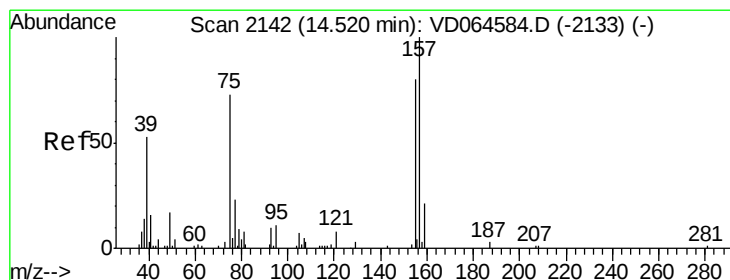
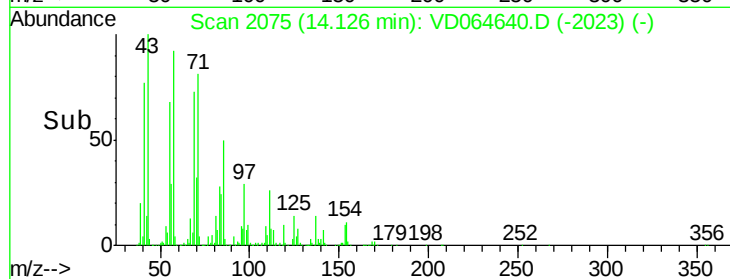
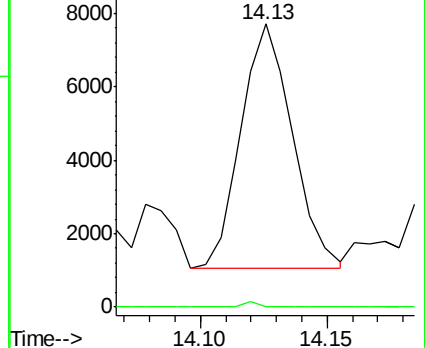
117 100

201 0.6 44.0 131.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 4.135 ug/l

RT: 14.54 min Scan# 2146

Delta R.T. 0.02 min

Lab File: VD064640.D

Acq: 27 Dec 2019 12:59

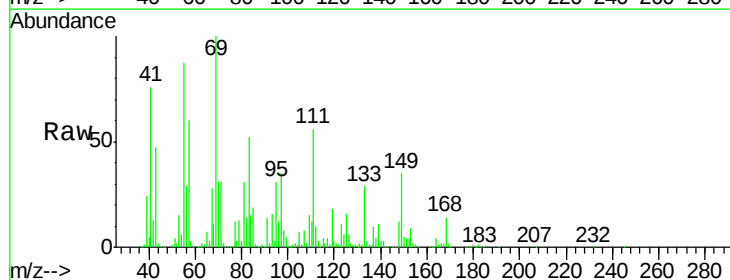
Tgt Ion: 75 Resp: 2166

Ion Ratio Lower Upper

75 100

155 212.1 48.0 144.0#

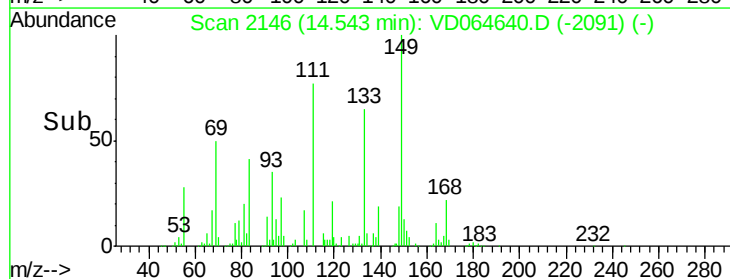
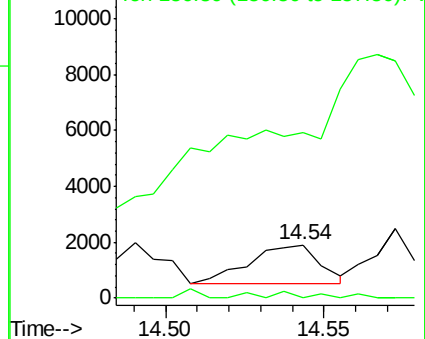
157 3.8 64.1 192.3#

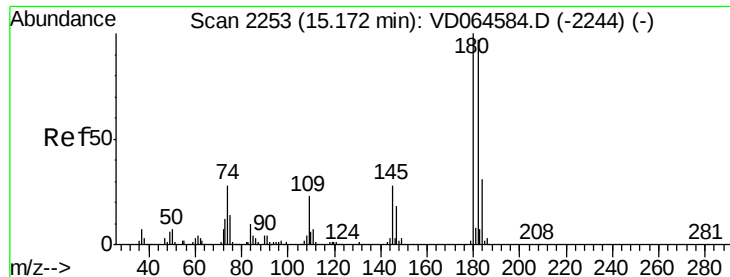


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

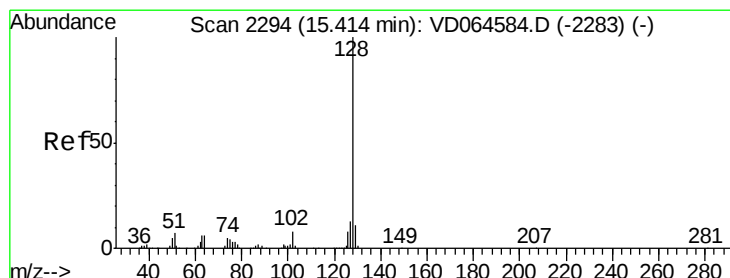
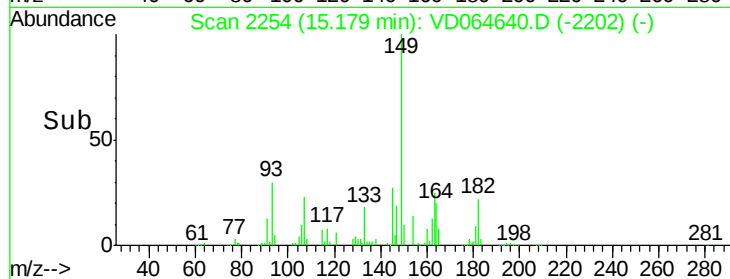
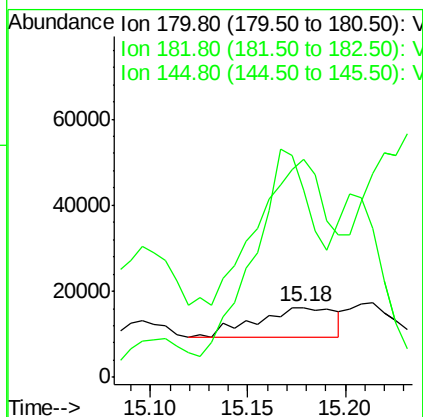
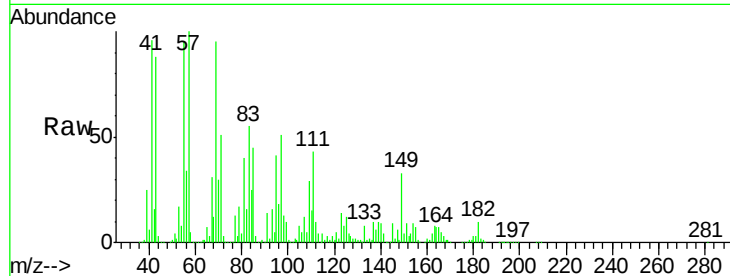




#93
 1,2,4-Trichlorobenzene
 Concen: 3.226 ug/l
 RT: 15.18 min Scan# 2254
 Delta R.T. 0.01 min
 Lab File: VD064640.D
 Acq: 27 Dec 2019 12:59

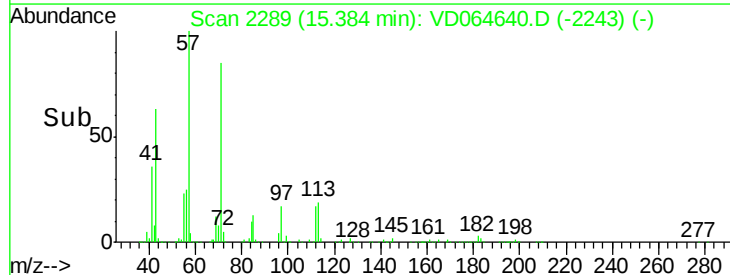
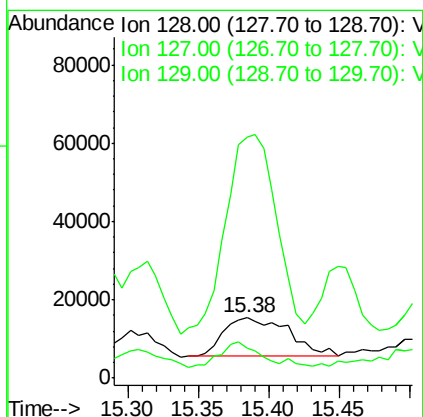
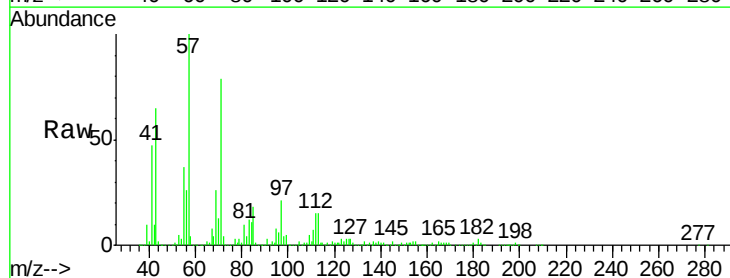
Instrument :
 MSVOA_D
 ClientSampleId :
 GP-5-(5-6)

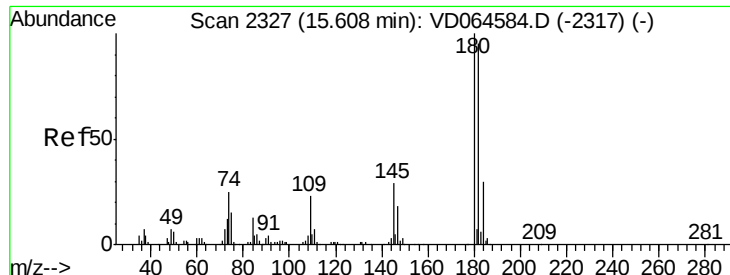
Tgt Ion:180 Resp: 19510
 Ion Ratio Lower Upper
 180 100
 182 448.1 48.0 144.2#
 145 596.1 13.8 41.4#



#95
 Naphthalene
 Concen: 3.373 ug/l
 RT: 15.38 min Scan# 2289
 Delta R.T. -0.03 min
 Lab File: VD064640.D
 Acq: 27 Dec 2019 12:59

Tgt Ion:128 Resp: 32272
 Ion Ratio Lower Upper
 128 100
 127 396.1 10.3 15.5#
 129 37.2 8.5 12.7#

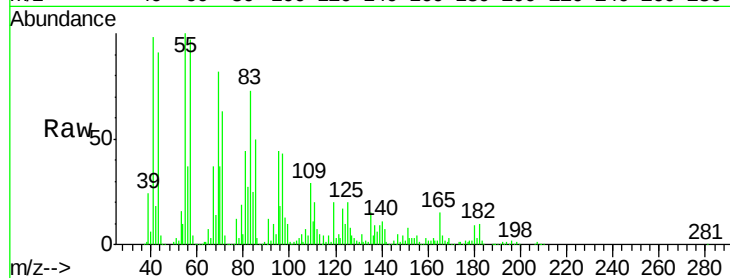




#96
 1,2,3-Trichlorobenzene
 Concen: 7.453 ug/l
 RT: 15.68 min Scan# 2340
 Delta R.T. 0.08 min
 Lab File: VD064640.D
 Acq: 27 Dec 2019 12:59

Instrument :
 MSVOA_D
 ClientSampleId :
 GP-5-(5-6)

Tgt Ion:180 Resp: 38486
 Ion Ratio Lower Upper
 180 100
 182 64.7 47.9 143.7
 145 21.4 14.9 44.7



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

