

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD020320\
 Data File : VD065056.D
 Acq On : 03 Feb 2020 16:11
 Operator : VA/SY
 Sample : L1346-06
 Misc : 13.82G/5.00ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 PD-4-(30-32)

Quant Time: Feb 03 18:28:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 13:45:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	721973	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	1144413	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.66	117	987819	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.60	152	949362	50.00	ug/l	0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	316620	45.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.44%	
35) Dibromofluoromethane	7.93	113	305328	42.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.92%	
50) Toluene-d8	10.36	98	6515827	234.74	ug/l	0.01
Spiked Amount	50.000		Recovery	=	469.48%	
62) 4-Bromofluorobenzene	12.64	95	2188143	257.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	515.20%	

Target Compounds

						Qvalue
11) Tert butyl alcohol	5.48	59	46792	122.269	ug/l #	74
13) Acrolein	3.87	56	43831	91.362	ug/l #	1
14) Allyl chloride	4.80	41	554050	55.276	ug/l #	57
15) Acrylonitrile	5.49	53	2093714	1514.655	ug/l #	41
16) Acetone	4.13	43	1557991	Below Cal	#	55
17) Carbon Disulfide	4.40	76	40613	1.964	ug/l	96
18) Methyl Acetate	4.79	43	374080	115.335	ug/l #	51
20) Methylene Chloride	4.82	84	209268	28.297	ug/l #	12
23) Vinyl Acetate	6.34	43	556798	47.608	ug/l #	76
24) 1,1-Dichloroethane	6.34	63	224339	18.291	ug/l #	84
25) 2-Butanone	7.21	43	964144	515.319	ug/l #	51
26) 2,2-Dichloropropane	7.04	77	509316	45.782	ug/l #	53
28) Bromochloromethane	7.57	49	9213	1.878	ug/l #	12
29) Tetrahydrofuran	7.57	42	189183	163.882	ug/l #	34
30) Chloroform	7.67	83	10532087	830.713	ug/l #	18
31) Cyclohexane	8.07	56	1570748	130.186	ug/l #	17
36) 1,1-Dichloropropene	8.08	75	22017	1.995	ug/l #	1
37) Ethyl Acetate	7.21	43	964144	211.516	ug/l #	69
38) Carbon Tetrachloride	7.99	117	63658	5.458	ug/l #	18
39) Methylcyclohexane	9.55	83	4121882	319.484	ug/l #	1
41) Methacrylonitrile	7.57	41	2205293	898.099	ug/l #	53
42) 1,2-Dichloroethane	8.47	62	150918	16.669	ug/l #	1
43) Isopropyl Acetate	8.47	43	17624878	2035.545	ug/l #	52
45) 1,2-Dichloropropane	9.38	63	1070870	145.341	ug/l #	1
46) Dibromomethane	9.44	93	167556	41.654	ug/l #	1
47) Bromodichloromethane	9.66	83	9674227	924.243	ug/l #	27
48) Methyl methacrylate	9.43	41	8577291	2152.641	ug/l #	13
49) 1,4-Dioxane	9.44	88	653	13.997	ug/l #	1
51) 4-Methyl-2-Pentanone	10.29	43	3495647	806.858	ug/l #	76
52) Toluene	10.41	92	194737	9.938	ug/l #	73
53) t-1,3-Dichloropropene	10.65	75	11079	1.111	ug/l #	1
54) cis-1,3-Dichloropropene	10.14	75	17249	1.478	ug/l #	1
55) 1,1,2-Trichloroethane	10.80	97	18131365	3346.227	ug/l #	26
56) Ethyl methacrylate	10.71	69	4920573	759.406	ug/l #	22

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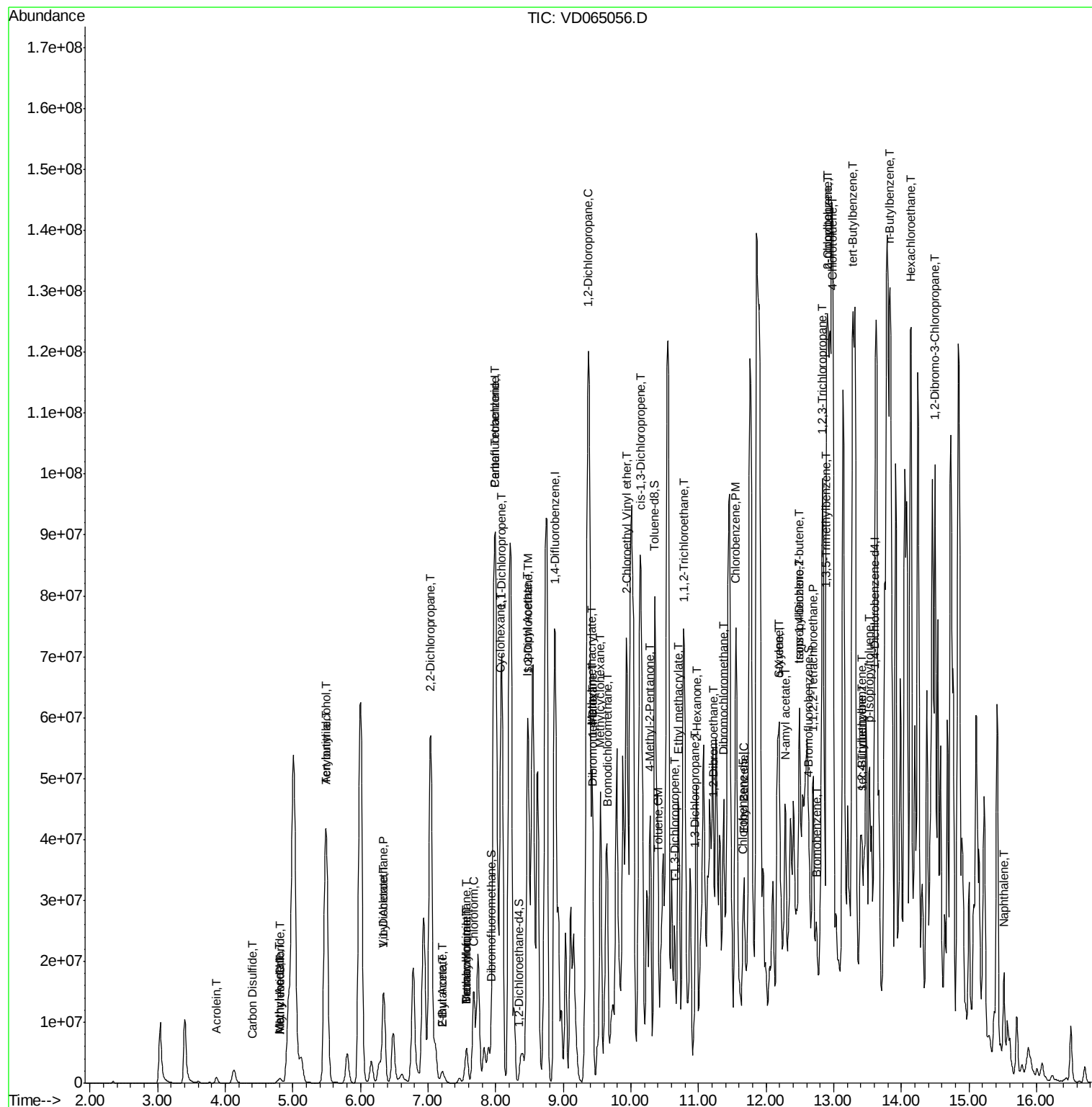
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) 1,3-Dichloropropane	10.95	76	10211	1.099	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.94	63	198138	92.044	ug/l #	46
59) 2-Hexanone	10.97	43	18313402	6128.202	ug/l #	31
60) Dibromochloromethane	11.38	129	39621	5.471	ug/l	84
61) 1,2-Dibromoethane	11.23	107	133533	25.594	ug/l #	1
65) Chlorobenzene	11.56	112	371982	18.547	ug/l #	57
67) Ethyl Benzene	11.67	91	333116	9.355	ug/l #	47
69) o-Xylene	12.20	106	9535494	783.701	ug/l	78
70) Styrene	12.20	104	507763	23.427	ug/l #	1
73) Isopropylbenzene	12.48	105	22235542	342.676	ug/l #	61
74) N-amyl acetate	12.28	43	8531090	587.547	ug/l #	61
75) 1,1,2,2-Tetrachloroethane	12.70	83	1244802	114.141	ug/l #	96
76) 1,2,3-Trichloropropane	12.84	75	937120	118.927	ug/l #	100
77) Bromobenzene	12.75	156	20014	1.261	ug/l #	1
78) n-propylbenzene	12.91	91	26675861	345.688	ug/l #	72
79) 2-Chlorotoluene	12.91	91	26675861	630.147	ug/l #	40
80) 1,3,5-Trimethylbenzene	12.88	105	2612358	49.127	ug/l #	29
81) trans-1,4-Dichloro-2-buten	12.49	75	428836	116.204	ug/l #	24
82) 4-Chlorotoluene	12.99	91	12186533	271.449	ug/l #	40
83) tert-Butylbenzene	13.28	119	14141700	313.384	ug/l #	64
84) 1,2,4-Trimethylbenzene	13.42	105	11564121	214.677	ug/l #	30
85) sec-Butylbenzene	13.42	105	11573598	181.137	ug/l #	42
86) p-Isopropyltoluene	13.54	119	6663147	111.444	ug/l	97
89) n-Butylbenzene	13.83	91	814125	14.921	ug/l #	1
90) Hexachloroethane	14.14	117	9843030	853.689	ug/l #	8
92) 1,2-Dibromo-3-Chloropropan	14.50	75	529751	303.535	ug/l #	1
95) Naphthalene	15.52	128	458030	15.863	ug/l #	1

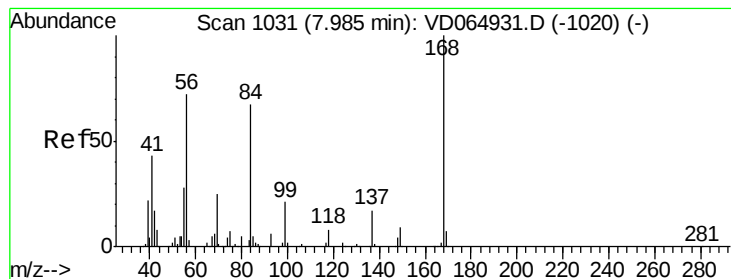
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1032

Delta R.T. 0.01 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

Instrument :

MSVOA_D

ClientSampleId :

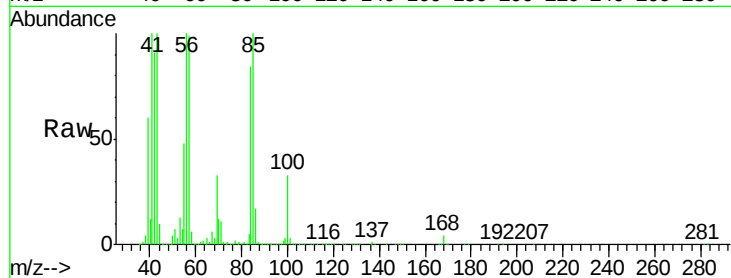
PD-4-(30-32)

Tot Ion:168 Resp: 721973

Ion Ratio Lower Upper

168 100

99 69.8 43.3 64.9#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.99

300000

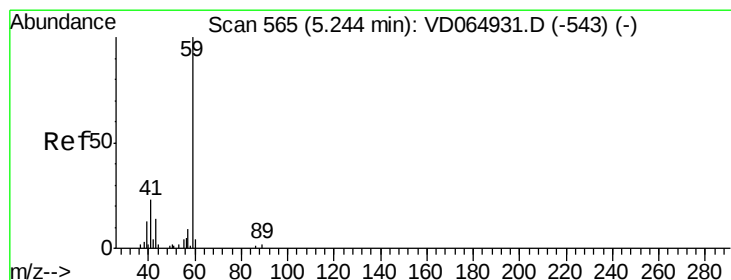
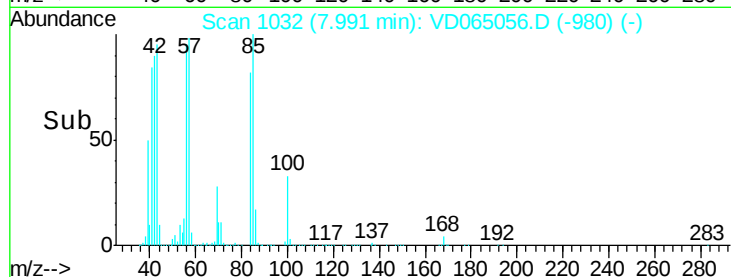
200000

100000

0

7.90 8.00 8.10

Time-->



#11

Tert butyl alcohol

Concen: 122.269 ug/l

RT: 5.48 min Scan# 606

Delta R.T. 0.24 min

Lab File: VD065056.D

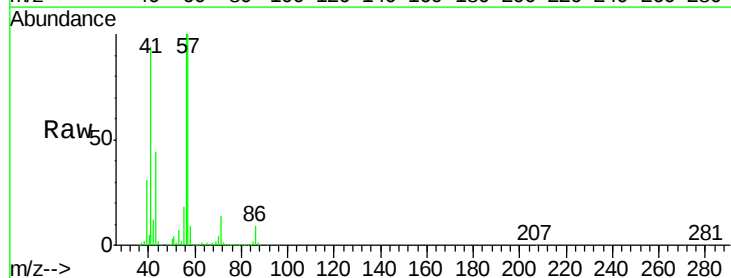
Acq: 03 Feb 2020 16:11

Tgt Ion: 59 Resp: 46792

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

1e+07

8000000

6000000

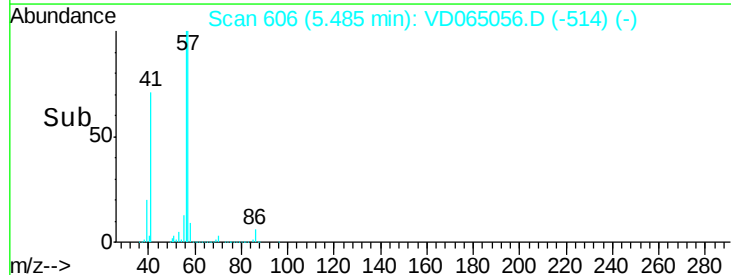
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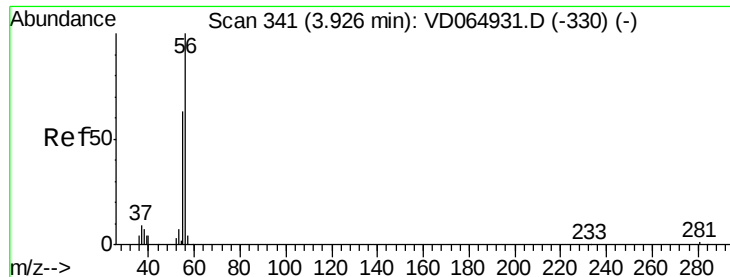
2000000

0

5.40 5.50

Time-->





#13

Acrolein

Concen: 91.362 ug/l

RT: 3.87 min Scan# 331

Delta R.T. -0.06 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

Instrument :

MSVOA_D

ClientSampleId :

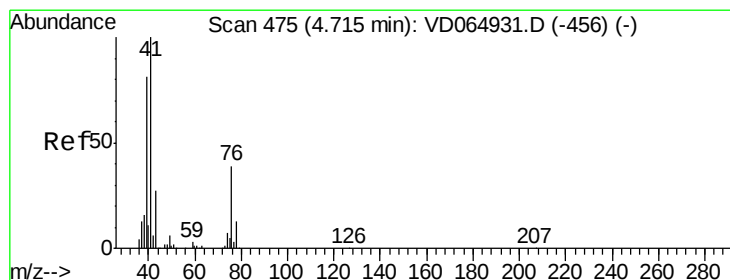
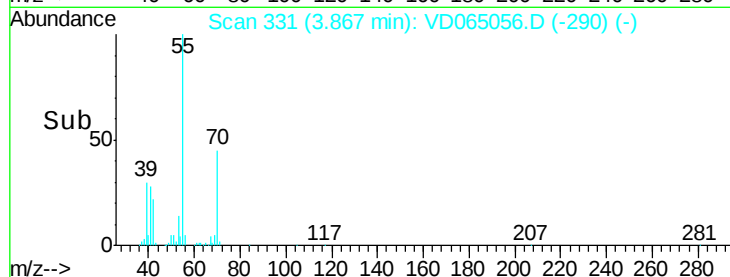
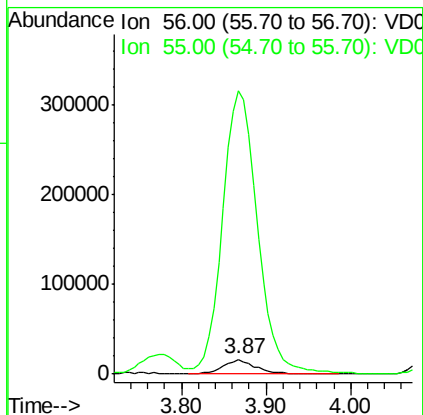
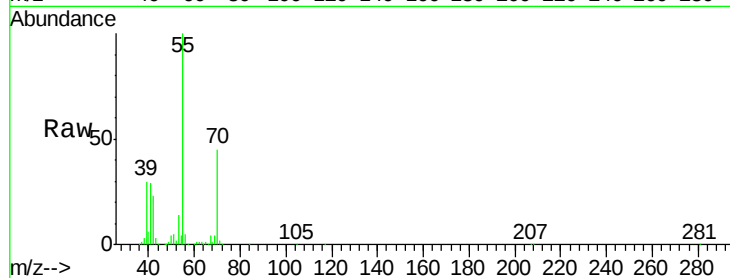
PD-4-(30-32)

Tot Ion: 56 Resp: 43831

Ion Ratio Lower Upper

56 100

55 2059.6 59.7 89.5#



#14

Allyl chloride

Concen: 55.276 ug/l

RT: 4.80 min Scan# 490

Delta R.T. 0.09 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

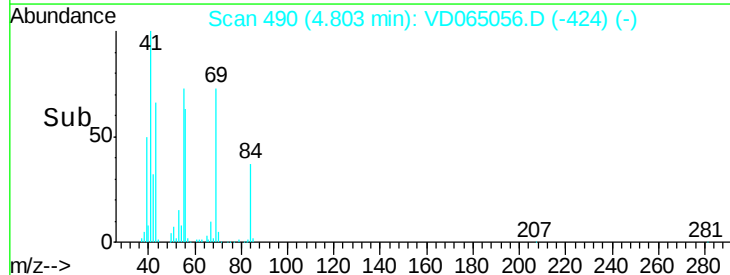
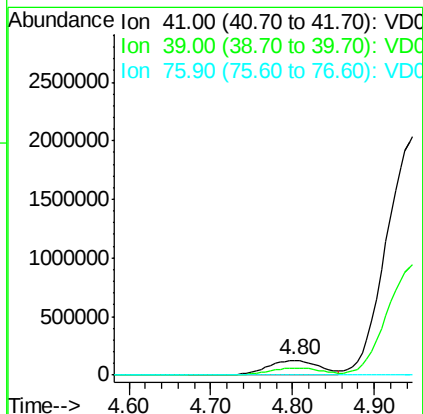
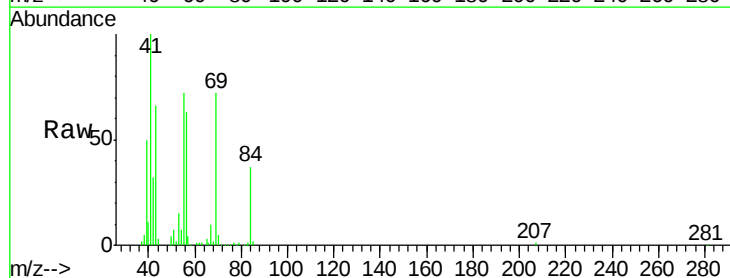
Tgt Ion: 41 Resp: 554050

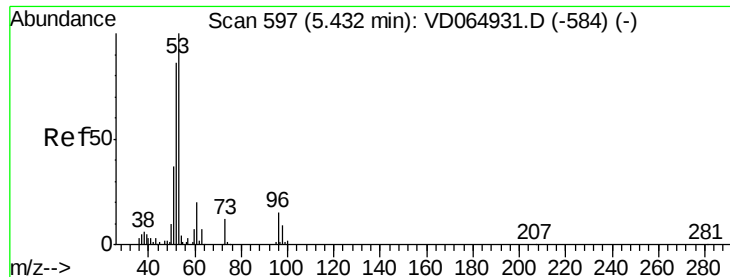
Ion Ratio Lower Upper

41 100

39 48.3 62.0 93.0#

76 0.0 29.3 43.9#





#15

Acrylonitrile

Concen: 1514.655 ug/l

RT: 5.49 min Scan# 607

Delta R.T. 0.06 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

Instrument :

MSVOA_D

ClientSampleId :

PD-4-(30-32)

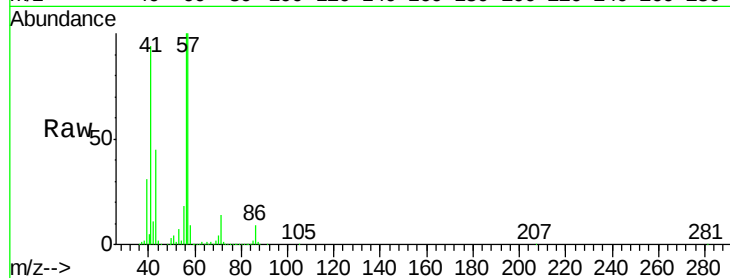
Tot Ion: 53 Resp: 2093714

Ion Ratio Lower Upper

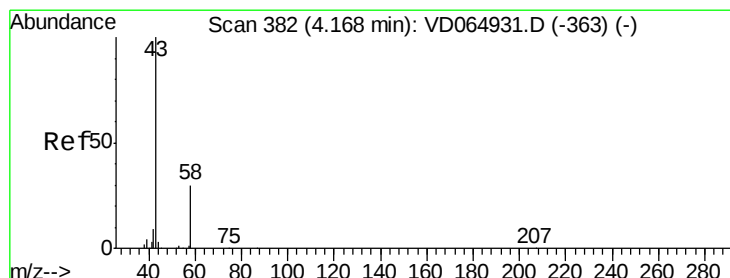
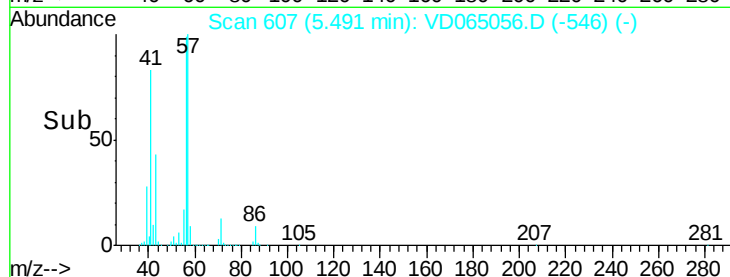
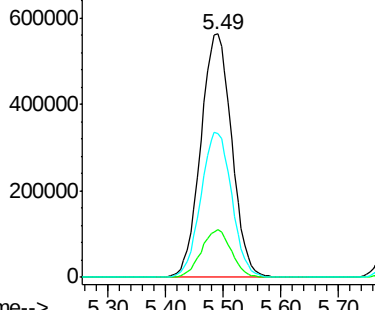
53 100

52 19.2 66.7 100.1#

51 59.5 31.1 46.7#



Abundance Ion 53.00 (52.70 to 53.70): VDC
Ion 52.00 (51.70 to 52.70): VDC
Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: Below Cal

RT: 4.13 min Scan# 375

Delta R.T. -0.04 min

Lab File: VD065056.D

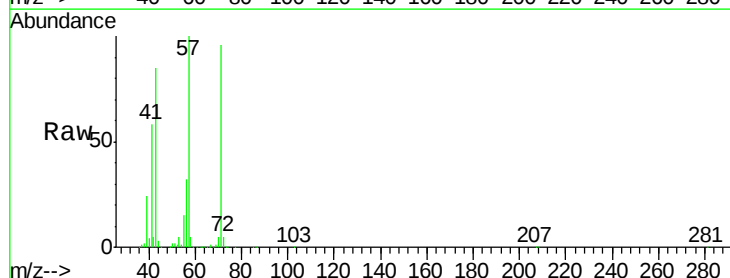
Acq: 03 Feb 2020 16:11

Tgt Ion: 43 Resp: 1557991

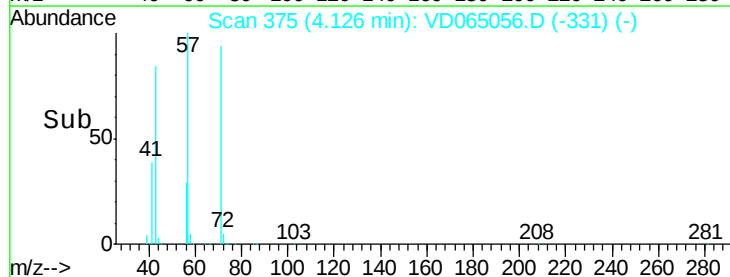
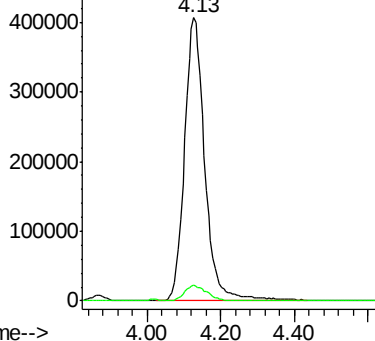
Ion Ratio Lower Upper

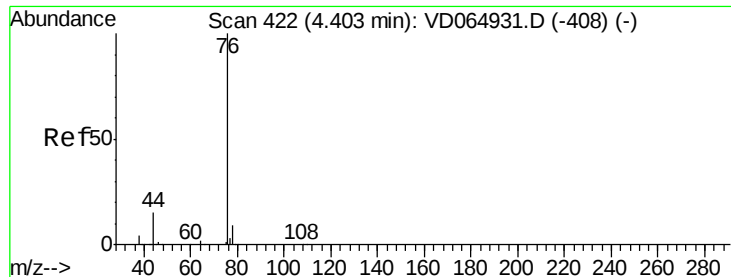
43 100

58 5.4 23.8 35.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC





#17

Carbon Disulfide

Concen: 1.964 ug/l

RT: 4.40 min Scan# 421

Delta R.T. -0.01 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

Instrument :

MSVOA_D

ClientSampleId :

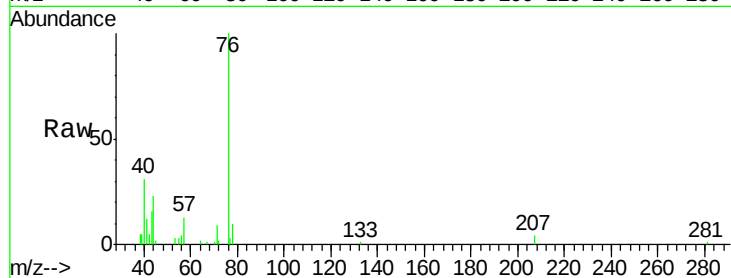
PD-4-(30-32)

Tot Ion: 76 Resp: 40613

Ion Ratio Lower Upper

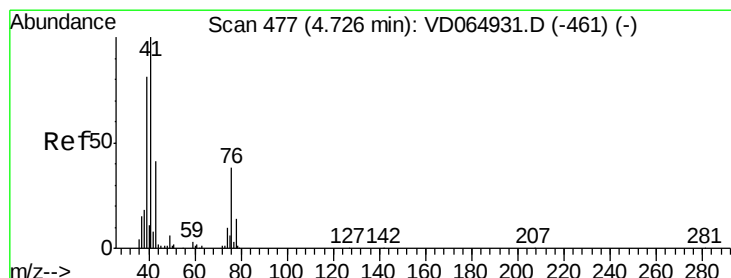
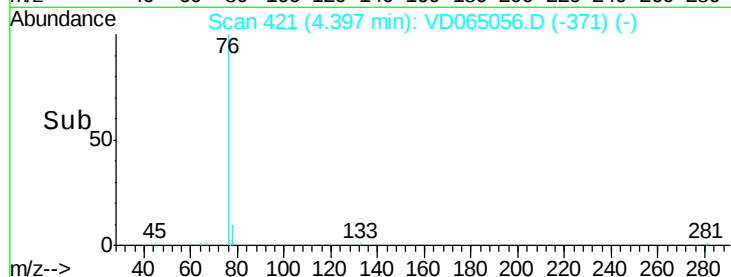
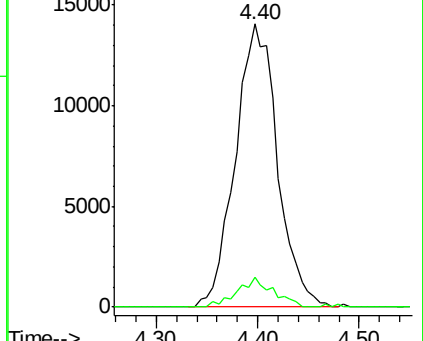
76 100

78 10.4 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#18

Methyl Acetate

Concen: 115.335 ug/l

RT: 4.79 min Scan# 488

Delta R.T. 0.06 min

Lab File: VD065056.D

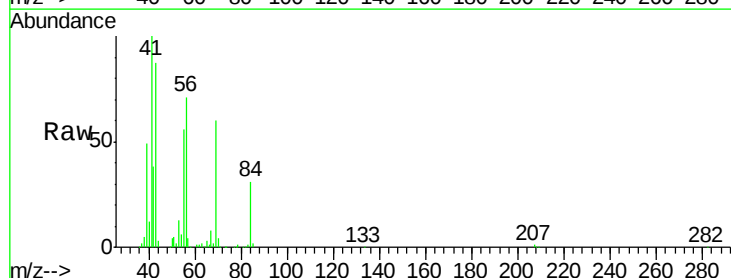
Acq: 03 Feb 2020 16:11

Tgt Ion: 43 Resp: 374080

Ion Ratio Lower Upper

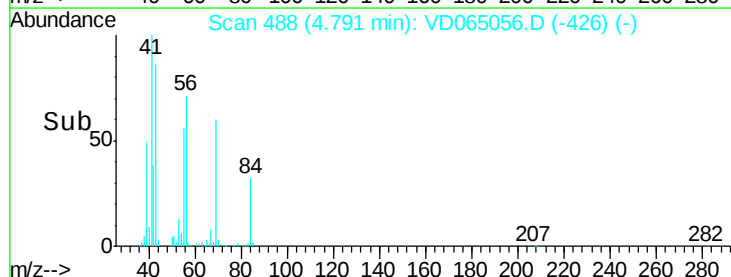
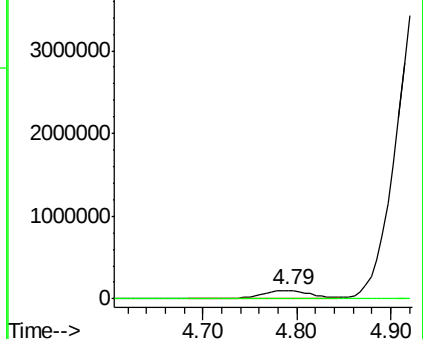
43 100

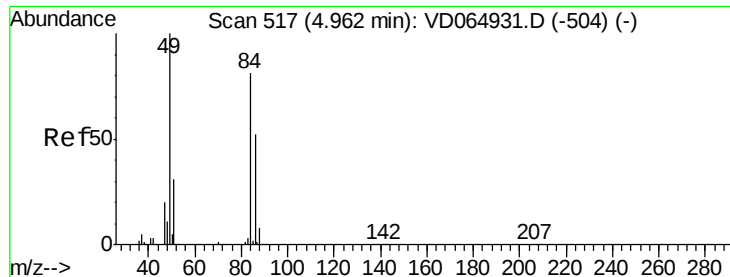
74 0.0 19.1 28.7#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

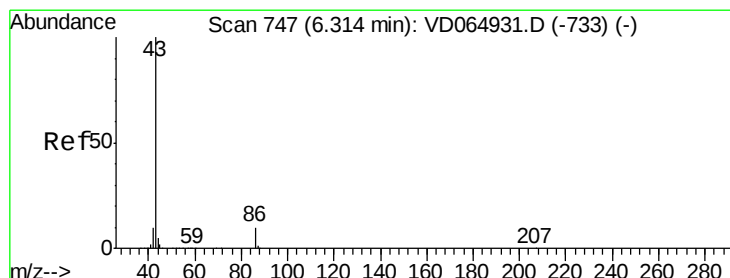
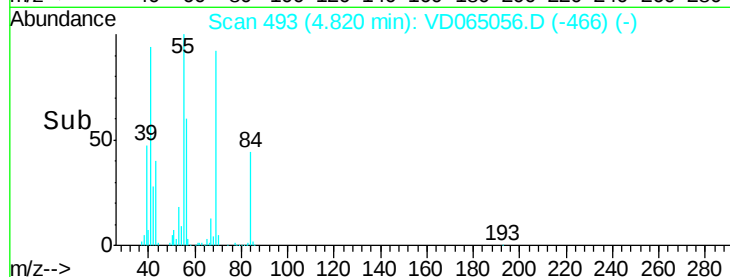
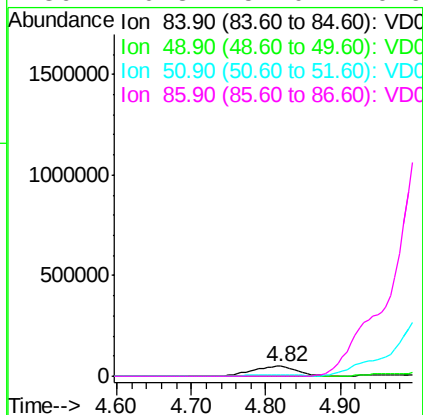
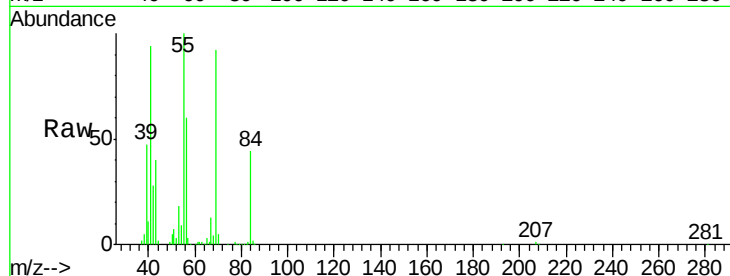




#20
Methvlene Chloride
Concen: 28.297 ug/l
RT: 4.82 min Scan# 493
Delta R.T. -0.14 min
Lab File: VD065056.D
Acq: 03 Feb 2020 16:11

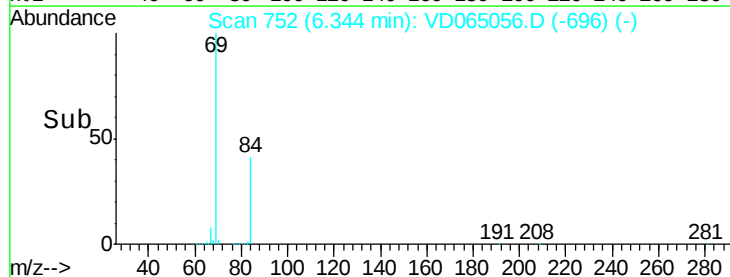
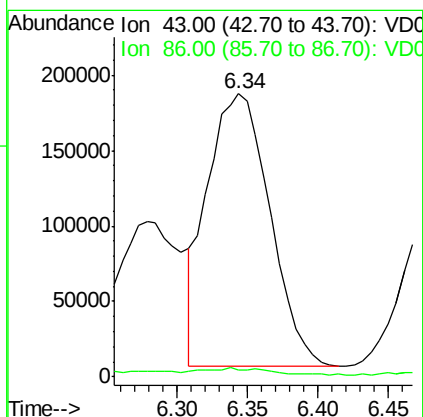
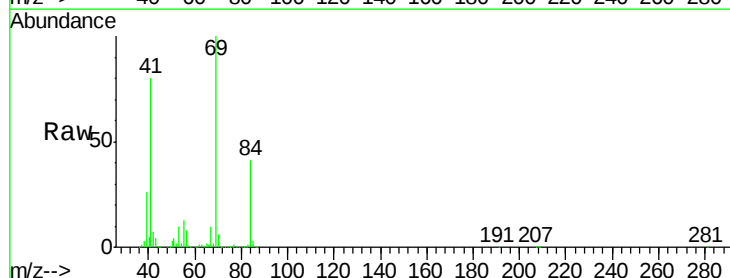
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PD-4-(30-32)

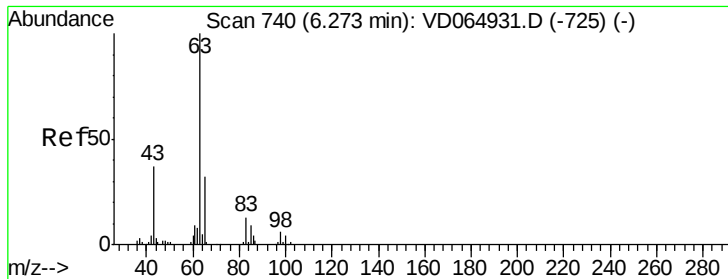
Tot Ion: 84 Resp: 209268
Ion Ratio Lower Upper
84 100
49 1.1 98.4 147.6#
51 15.7 30.8 46.2#
86 0.3 51.0 76.6#



#23
Vinyl Acetate
Concen: 47.608 ug/l
RT: 6.34 min Scan# 752
Delta R.T. 0.03 min
Lab File: VD065056.D
Acq: 03 Feb 2020 16:11

Tgt Ion: 43 Resp: 556798
Ion Ratio Lower Upper
43 100
86 1.5 8.3 12.5#





#24

1,1-Dichloroethane

Concen: 18.291 ug/l

RT: 6.34 min Scan# 752

Delta R.T. 0.07 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

Instrument :

MSVOA_D

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PD-4-(30-32)

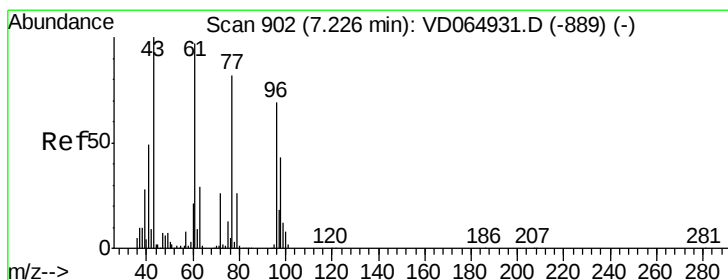
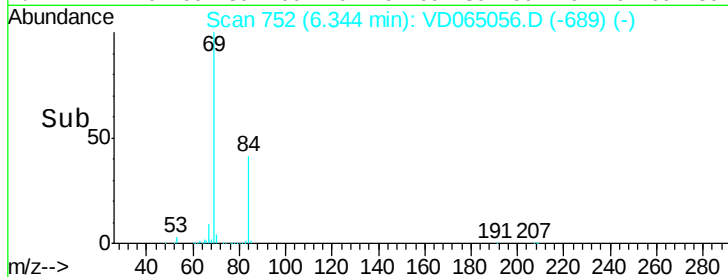
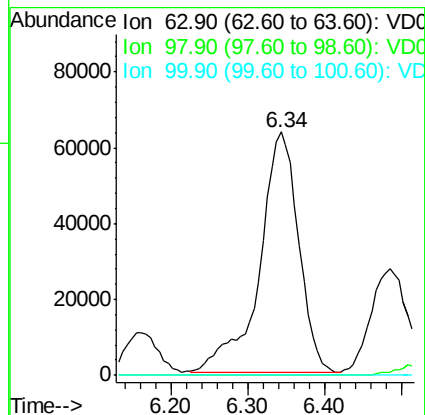
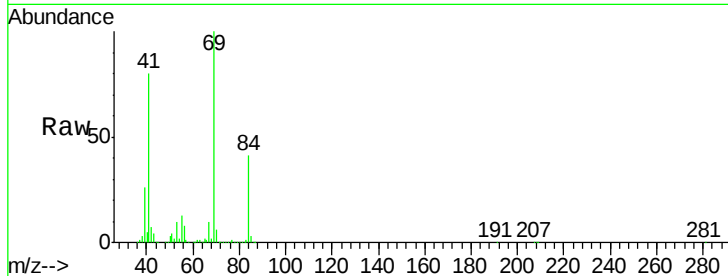
Tot Ion: 63 Resp: 224339

Ion Ratio Lower Upper

63 100

98 0.0 3.1 9.3#

100 0.0 2.3 6.8#



#25

2-Butanone

Concen: 515.319 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.02 min

Lab File: VD065056.D

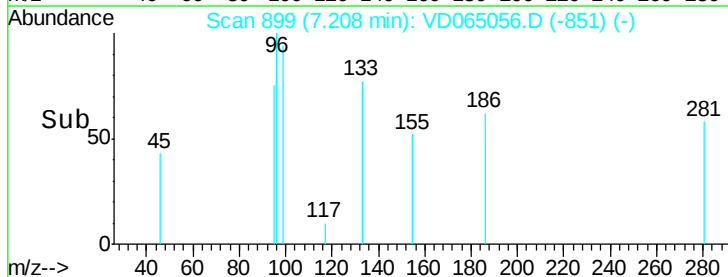
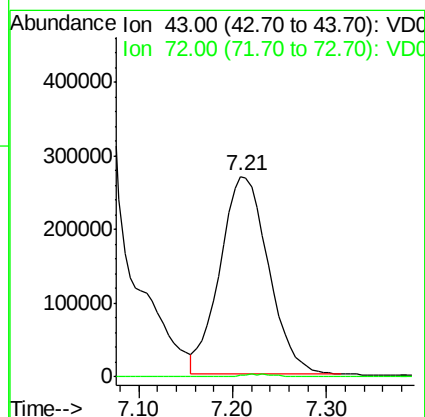
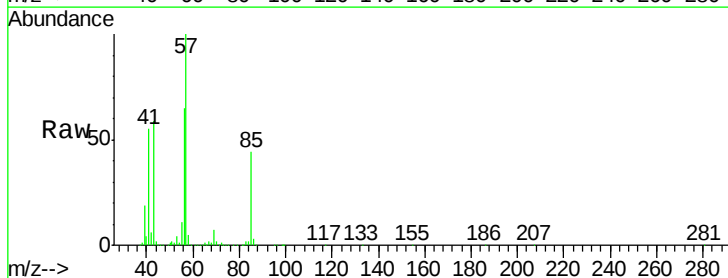
Acq: 03 Feb 2020 16:11

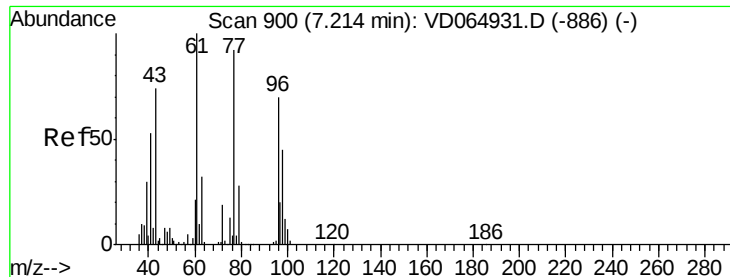
Tgt Ion: 43 Resp: 964144

Ion Ratio Lower Upper

43 100

72 0.9 20.6 31.0#





#26

2,2-Dichloropropane

Concen: 45.782 ug/l

RT: 7.04 min Scan# 870

Delta R.T. -0.18 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

Instrument :

MSVOA_D

ClientSampleId :

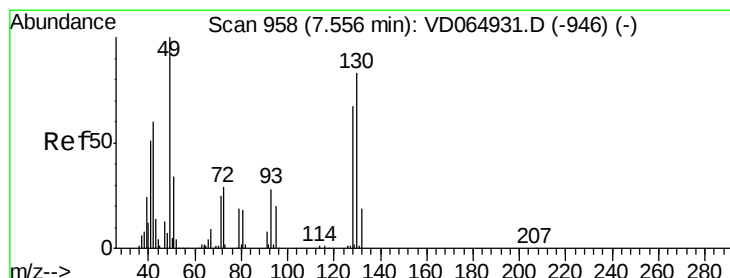
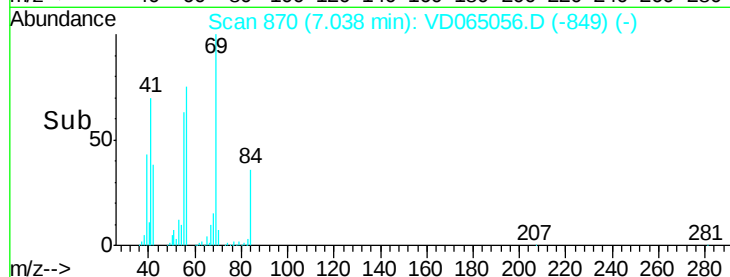
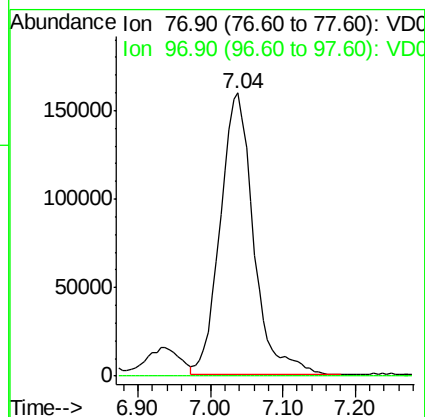
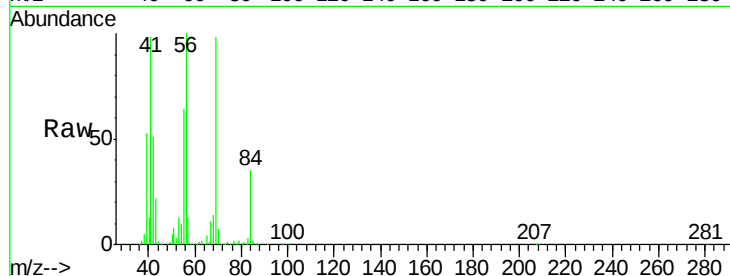
PD-4-(30-32)

Tot Ion: 77 Resp: 509316

Ion Ratio Lower Upper

77 100

97 0.0 11.4 34.2#



#28

Bromochloromethane

Concen: 1.878 ug/l

RT: 7.57 min Scan# 960

Delta R.T. 0.01 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

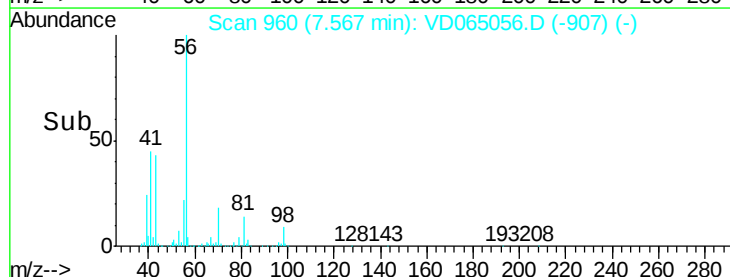
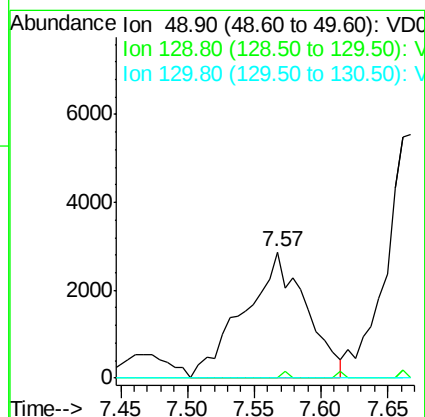
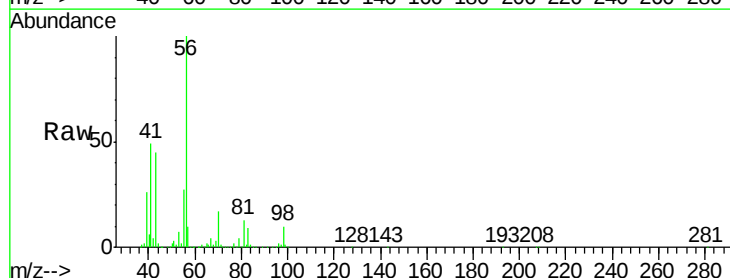
Tgt Ion: 49 Resp: 9213

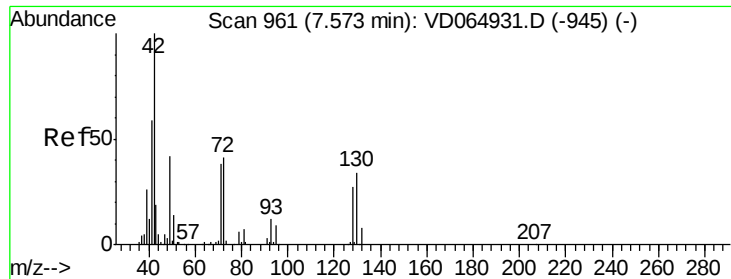
Ion Ratio Lower Upper

49 100

129 0.7 0.0 4.4

130 0.0 63.8 95.8#

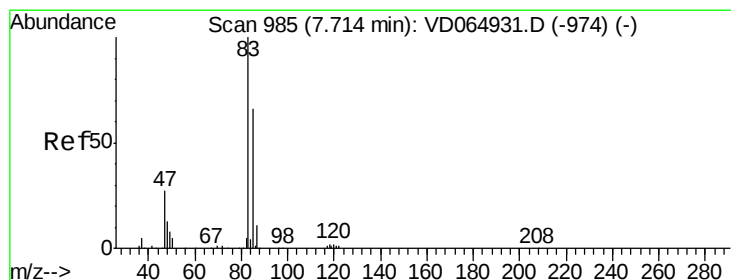
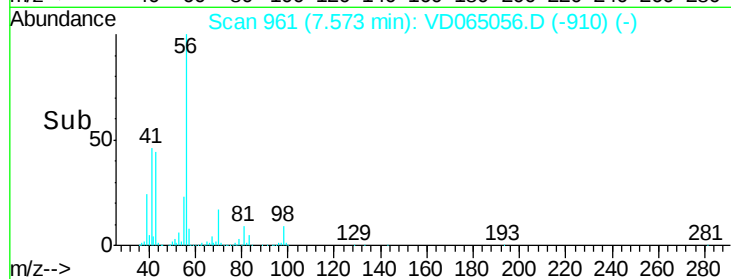
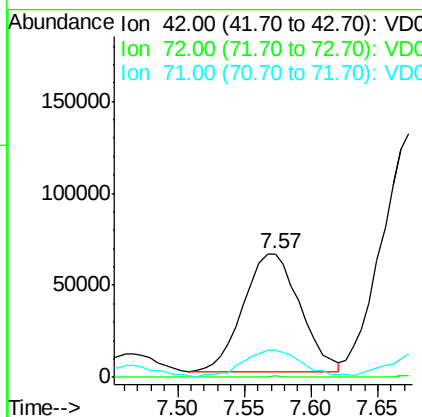
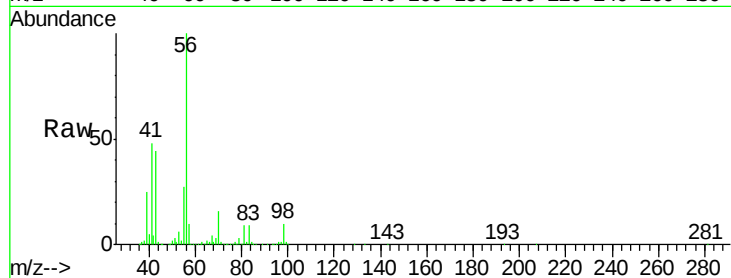




#29
Tetrahydrofuran
Concen: 163.882 ug/l
RT: 7.57 min Scan# 961
Delta R.T. -0.00 min
Lab File: VD065056.D
Acq: 03 Feb 2020 16:11

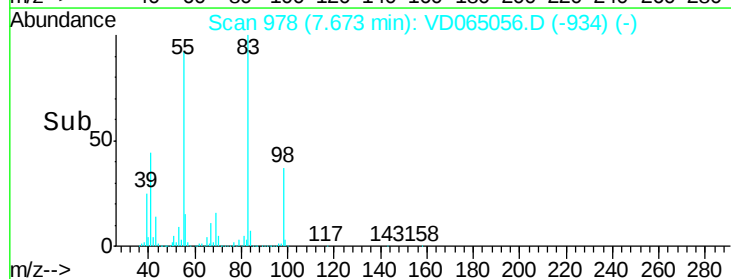
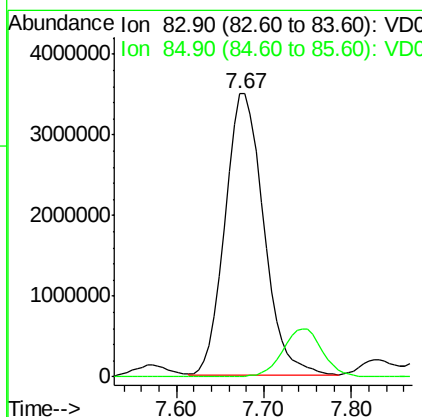
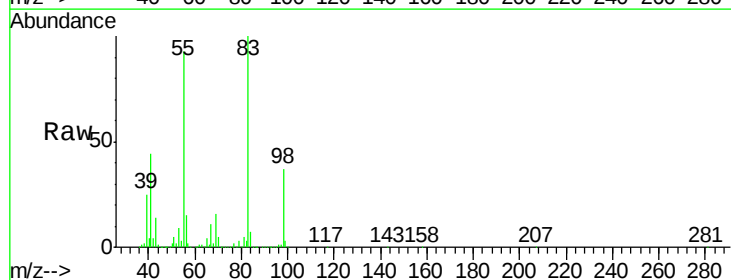
Instrument :
MSVOA_D
ClientSampleId :
PD-4-(30-32)

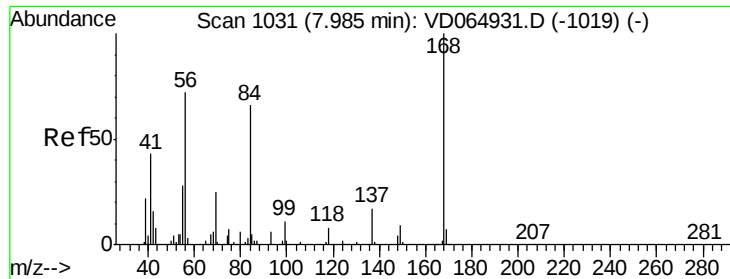
Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.0	51.0#
71	0.0	31.5	47.3#



#30
Chloroform
Concen: 830.713 ug/l
RT: 7.67 min Scan# 978
Delta R.T. -0.04 min
Lab File: VD065056.D
Acq: 03 Feb 2020 16:11

Tgt Ion	Ratio	Lower	Upper
83	100		
85	0.3	52.4	78.6#

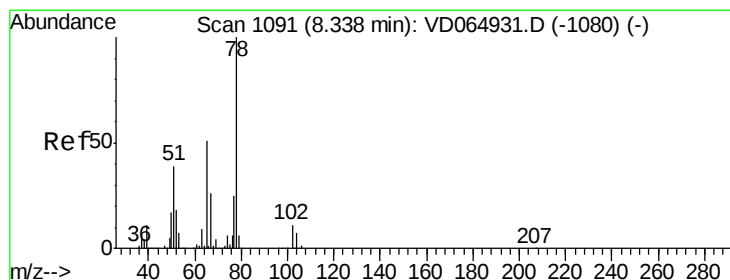
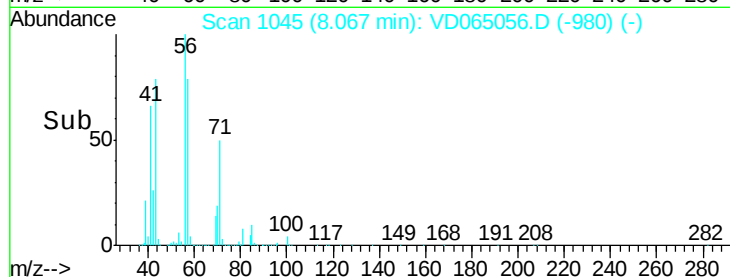
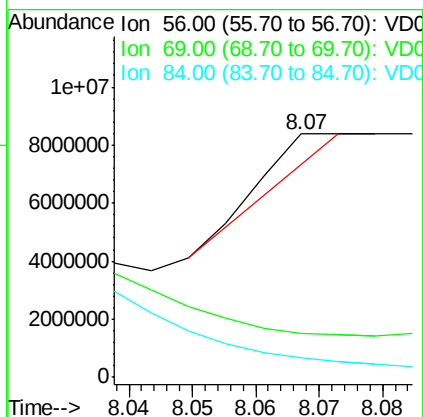
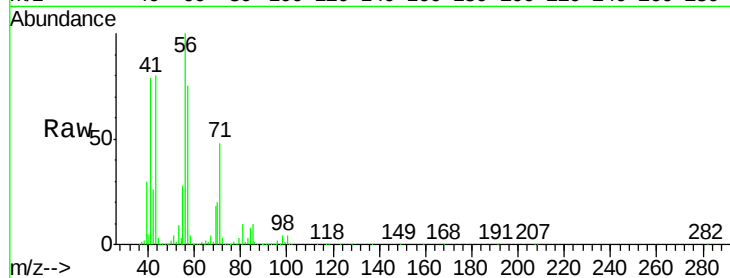




#31
Cyclohexane
Concen: 130.186 ug/l
RT: 8.07 min Scan# 1045
Delta R.T. 0.08 min
Lab File: VD065056.D
Acq: 03 Feb 2020 16:11

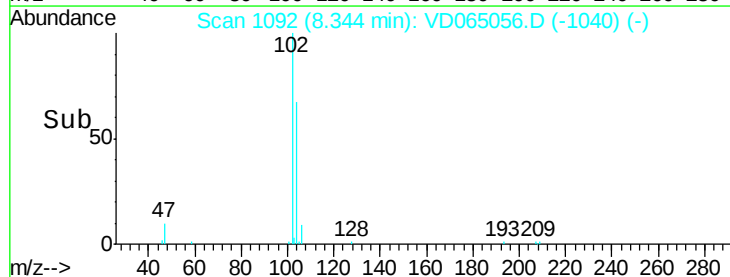
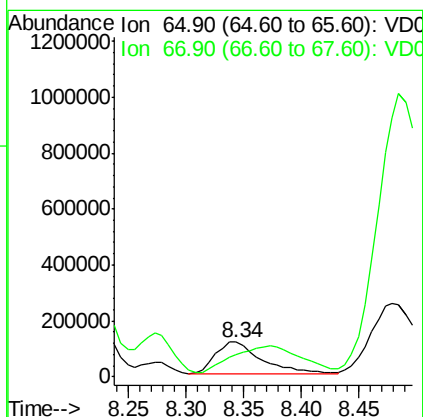
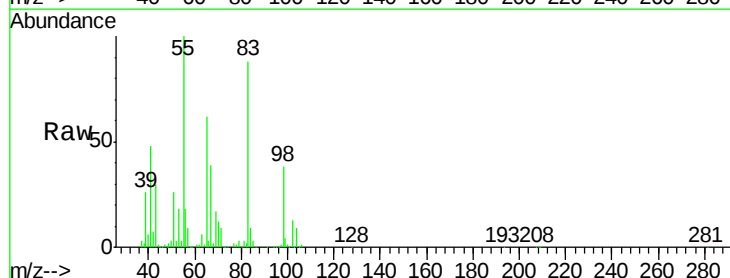
Instrument :
MSVOA_D
ClientSampleId :
PD-4-(30-32)

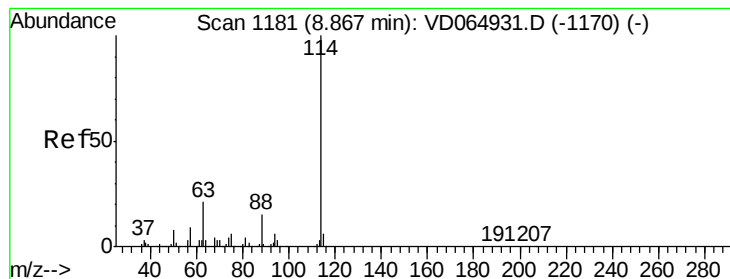
Tot Ion: 56 Resp: 1570748
Ion Ratio Lower Upper
56 100
69 1.4 27.9 41.9#
84 2.6 72.8 109.2#



#33
1,2-Dichloroethane-d4
Concen: 45.719 ug/l
RT: 8.34 min Scan# 1092
Delta R.T. 0.01 min
Lab File: VD065056.D
Acq: 03 Feb 2020 16:11

Tgt Ion: 65 Resp: 316620
Ion Ratio Lower Upper
65 100
67 0.0 0.0 103.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1182

Delta R.T. 0.01 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

Instrument :

MSVOA_D

ClientSampleId :

PD-4-(30-32)

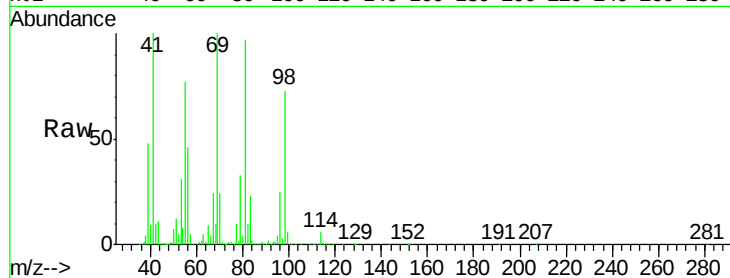
Tot Ion:114 Resp: 1144413

Ion Ratio Lower Upper

114 100

63 80.6 0.0 42.0#

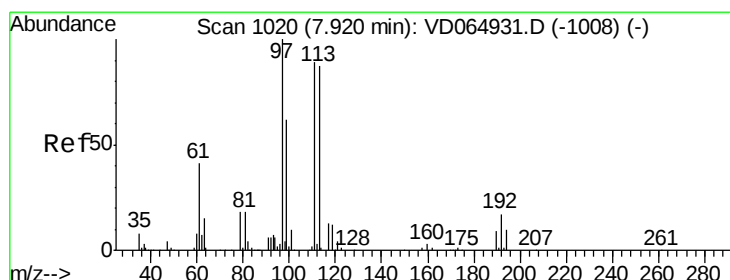
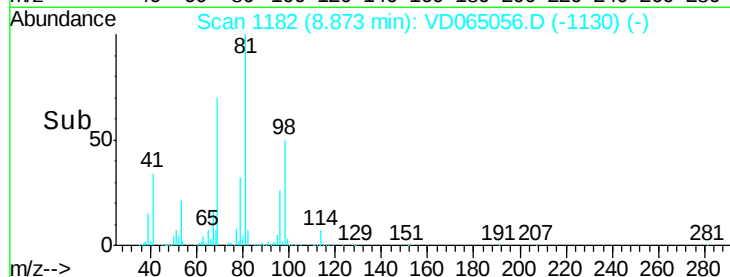
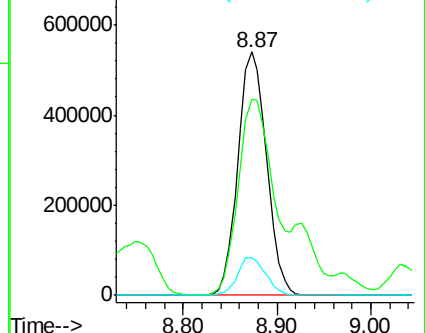
88 15.4 0.0 29.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC



#35

Dibromofluoromethane

Concen: 42.456 ug/l

RT: 7.93 min Scan# 1021

Delta R.T. 0.01 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

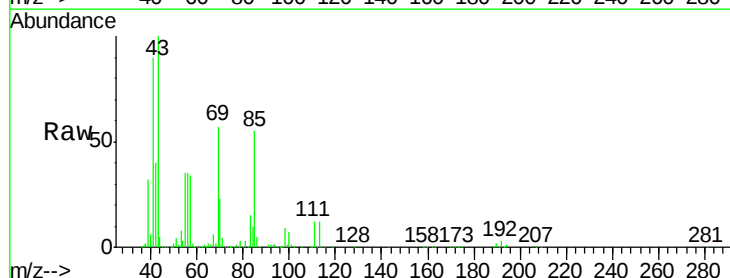
Tgt Ion:113 Resp: 305328

Ion Ratio Lower Upper

113 100

111 102.5 82.4 123.6

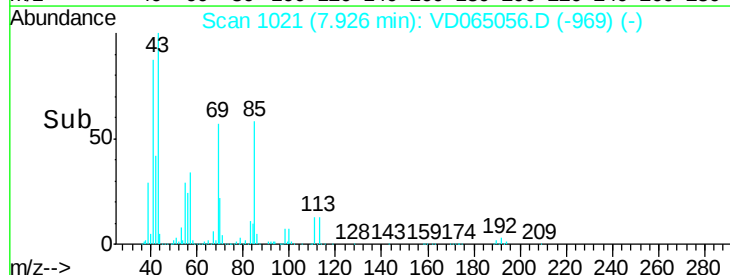
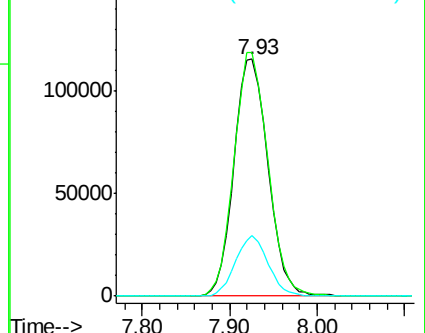
192 24.3 16.9 25.3

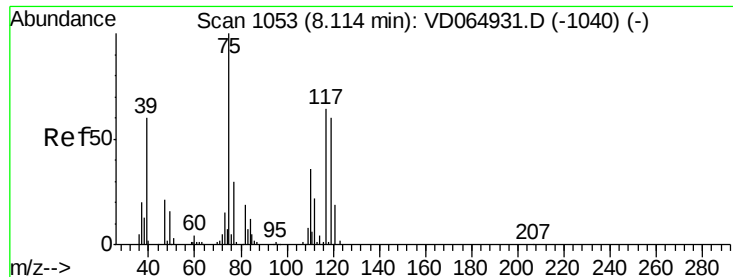


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 1.995 ug/l

RT: 8.08 min Scan# 1048

Delta R.T. -0.03 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

Instrument :

MSVOA_D

ClientSampleId :

PD-4-(30-32)

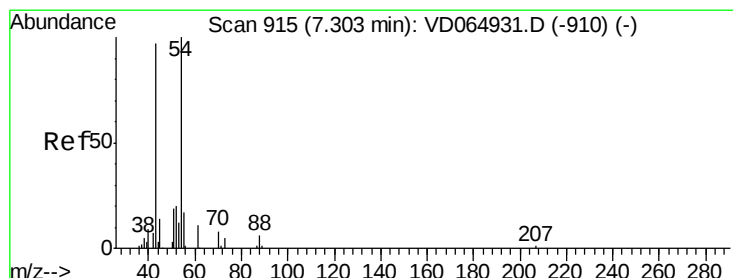
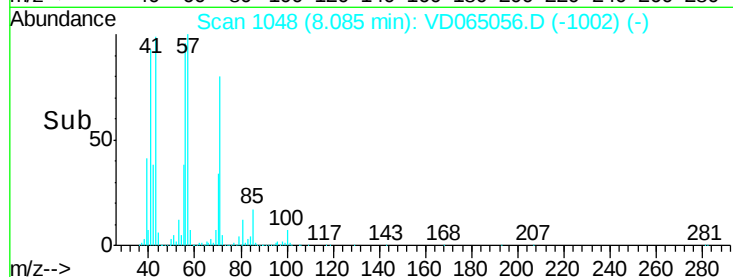
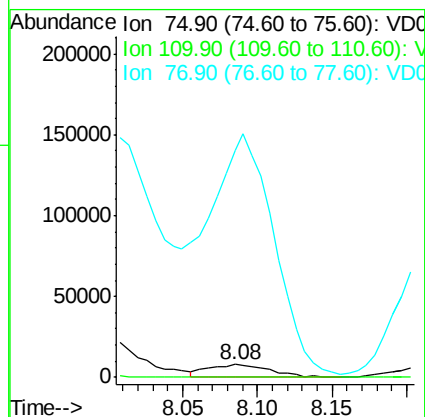
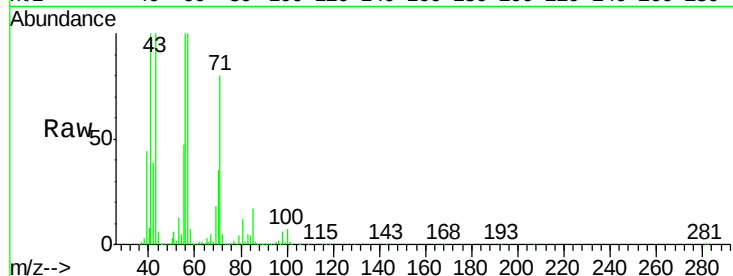
Tot Ion: 75 Resp: 22017

Ion Ratio Lower Upper

75 100

110 0.0 17.3 52.0#

77 1977.4 24.7 37.1#



#37

Ethyl Acetate

Concen: 211.516 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.09 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

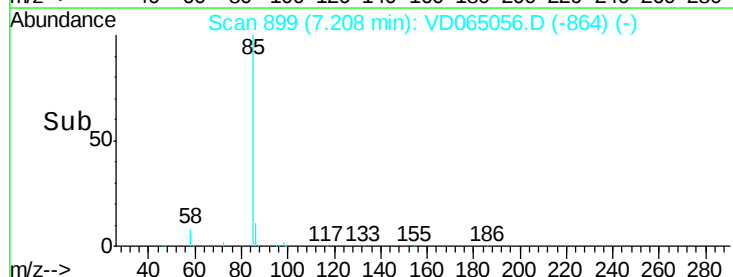
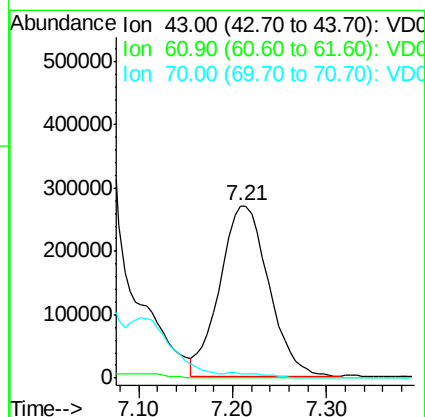
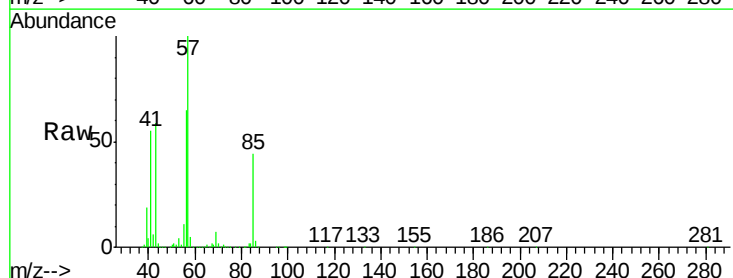
Tgt Ion: 43 Resp: 964144

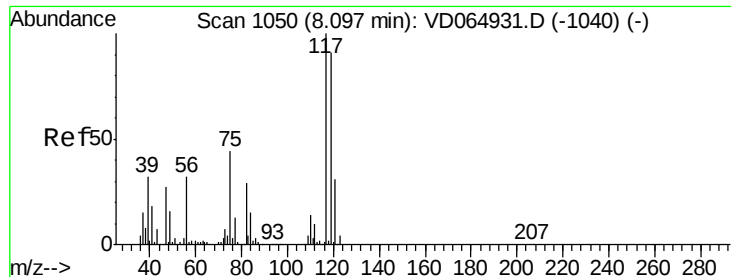
Ion Ratio Lower Upper

43 100

61 0.0 11.0 16.4#

70 0.0 7.5 11.3#





#38

Carbon Tetrachloride

Concen: 5.458 ug/l

RT: 7.99 min Scan# 1032

Delta R.T. -0.11 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

Instrument :

MSVOA_D

ClientSampleId :

PD-4-(30-32)

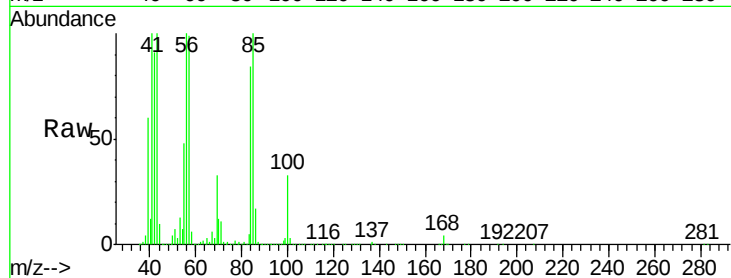
Tot Ion:117 Resp: 63658

Ion Ratio Lower Upper

117 100

119 5.1 73.2 109.8#

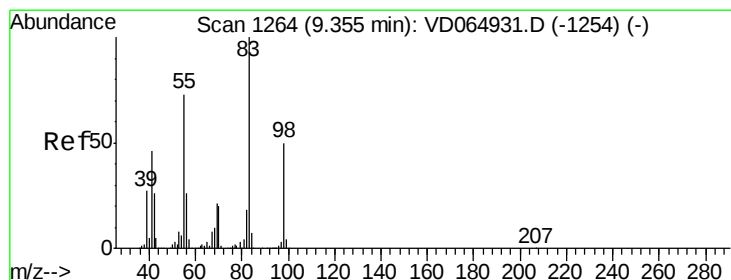
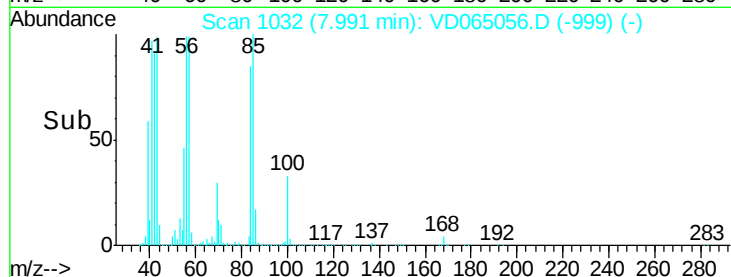
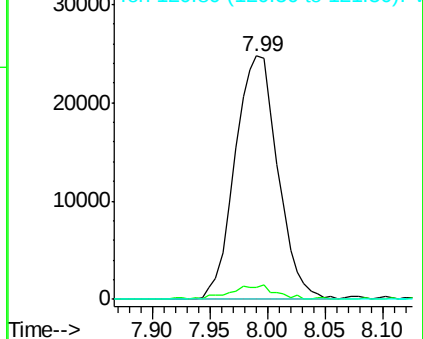
121 0.0 24.4 36.6#



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



#39

Methylcyclohexane

Concen: 319.484 ug/l

RT: 9.55 min Scan# 1297

Delta R.T. 0.19 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

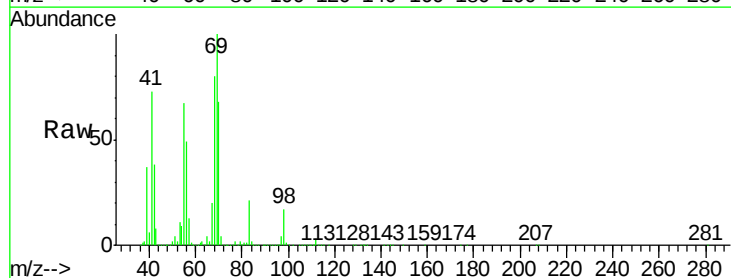
Tgt Ion: 83 Resp: 4121882

Ion Ratio Lower Upper

83 100

55 317.0 58.7 88.1#

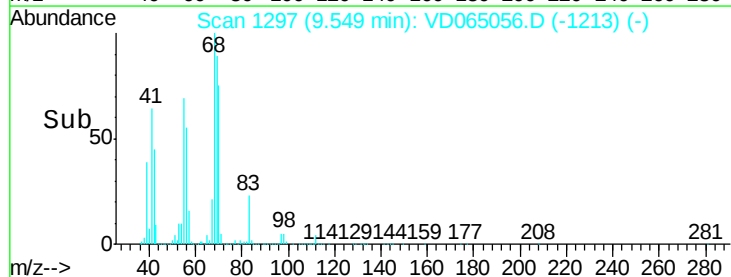
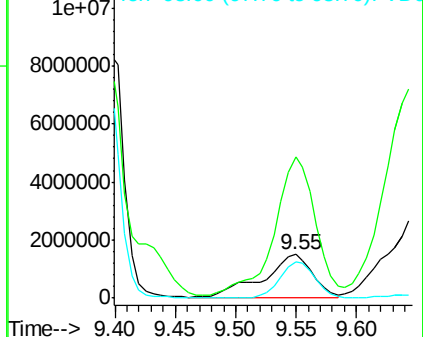
98 82.4 40.2 60.2#

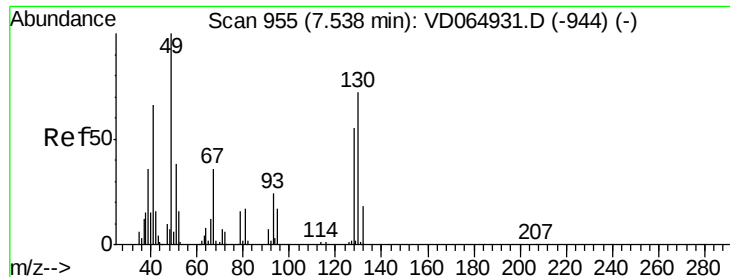


Abundance Ion 83.00 (82.70 to 83.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.00 (97.70 to 98.70): VDC

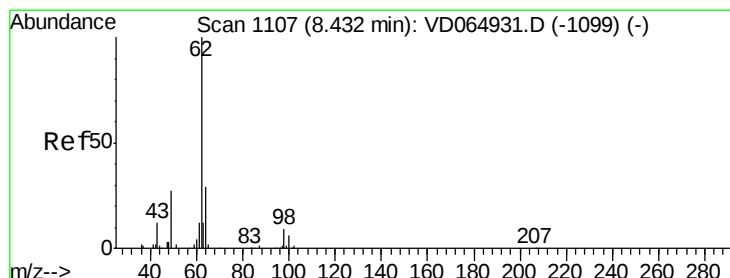
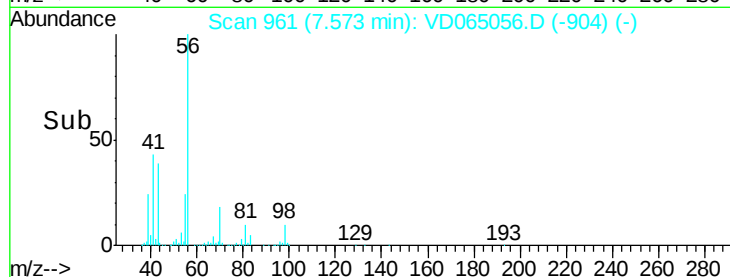
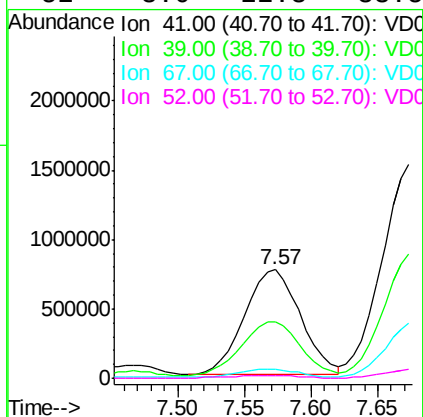
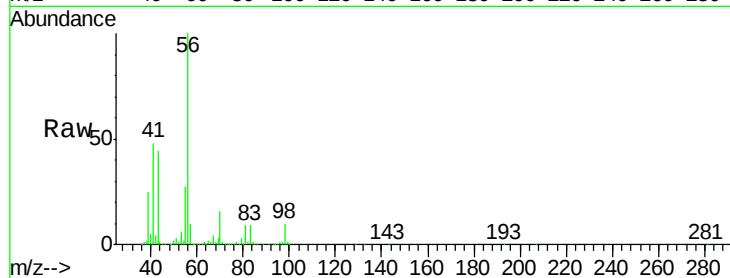




#41
Methacrylonitrile
Concen: 898.099 ug/l
RT: 7.57 min Scan# 961
Delta R.T. 0.04 min
Lab File: VD065056.D
Acq: 03 Feb 2020 16:11

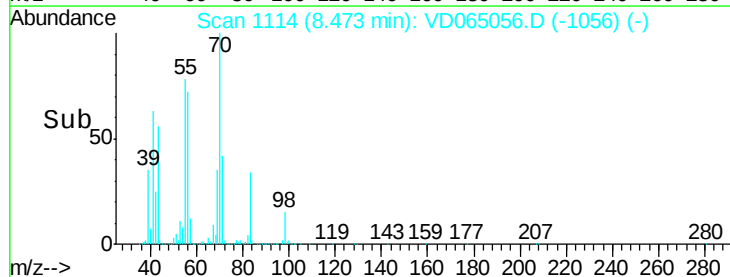
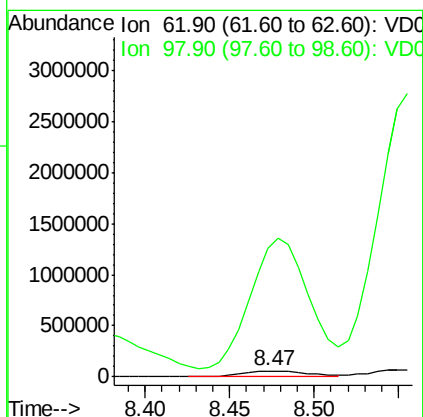
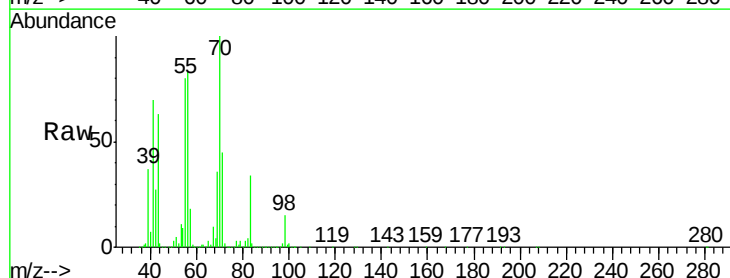
Instrument :
MSVOA_D
ClientSampleId :
PD-4-(30-32)

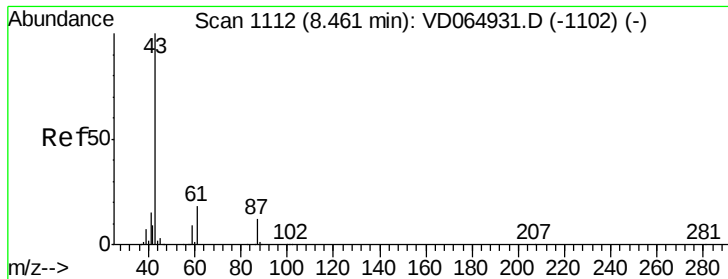
Tot Ion: 41 Resp: 2205293
Ion Ratio Lower Upper
41 100
39 53.8 49.3 73.9
67 0.0 51.0 76.6#
52 3.0 22.3 33.5#



#42
1,2-Dichloroethane
Concen: 16.669 ug/l
RT: 8.47 min Scan# 1114
Delta R.T. 0.04 min
Lab File: VD065056.D
Acq: 03 Feb 2020 16:11

Tgt Ion: 62 Resp: 150918
Ion Ratio Lower Upper
62 100
98 2031.2 0.0 17.8#





#43

Isopropyl Acetate

Concen: 2035.545 ug/l

RT: 8.47 min Scan# 1113

Delta R.T. 0.01 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

Instrument :

MSVOA_D

ClientSampleId :

PD-4-(30-32)

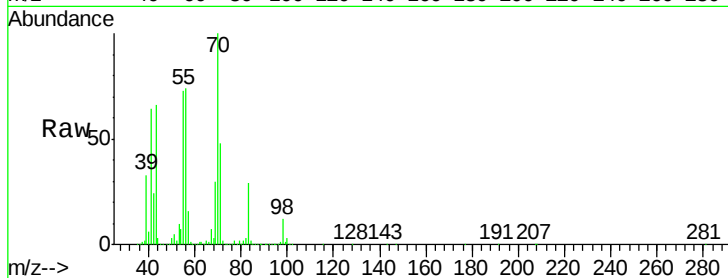
Tot Ion: 43 Resp:17624878

Ion Ratio Lower Upper

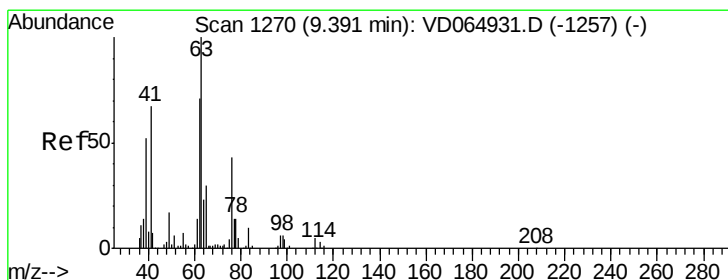
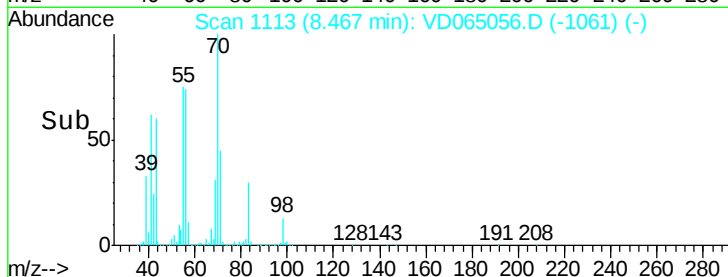
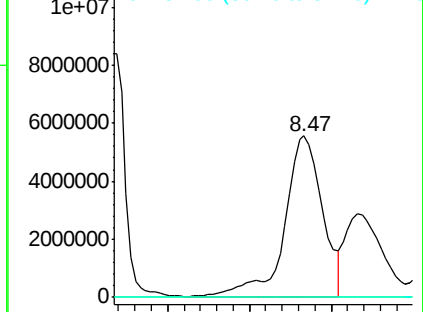
43 100

61 0.3 23.8 35.6#

87 0.0 10.3 15.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 61.00 (60.70 to 61.70): VDC
Ion 87.00 (86.70 to 87.70): VDC



#45

1,2-Dichloropropane

Concen: 145.341 ug/l

RT: 9.38 min Scan# 1268

Delta R.T. -0.01 min

Lab File: VD065056.D

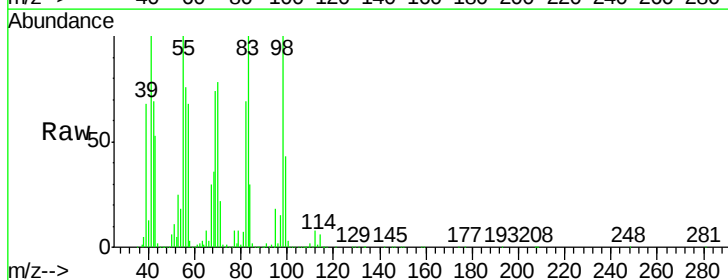
Acq: 03 Feb 2020 16:11

Tgt Ion: 63 Resp: 1070870

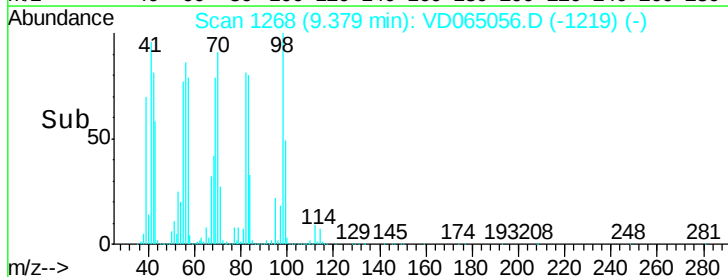
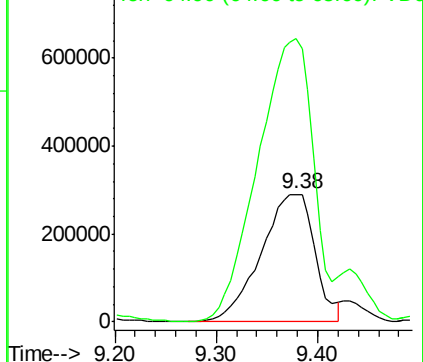
Ion Ratio Lower Upper

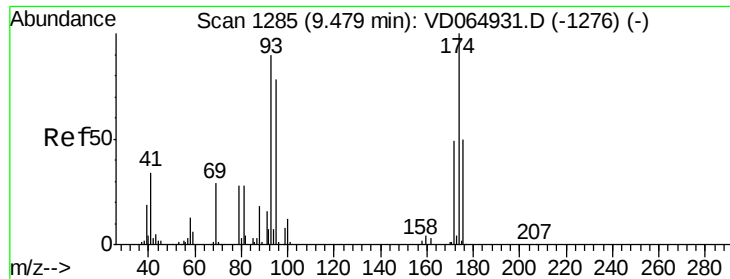
63 100

65 222.0 24.3 36.5#



Abundance Ion 62.90 (62.60 to 63.60): VDC
Ion 64.90 (64.60 to 65.60): VDC





#46

Dibromomethane

Concen: 41.654 ug/l

RT: 9.44 min Scan# 1279

Delta R.T. -0.04 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

Instrument :

MSVOA_D

ClientSampleId :

PD-4-(30-32)

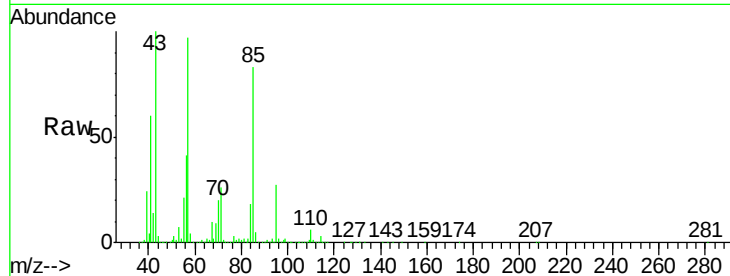
Tot Ion: 93 Resp: 167556

Ion Ratio Lower Upper

93 100

95 1573.3 67.5 101.3#

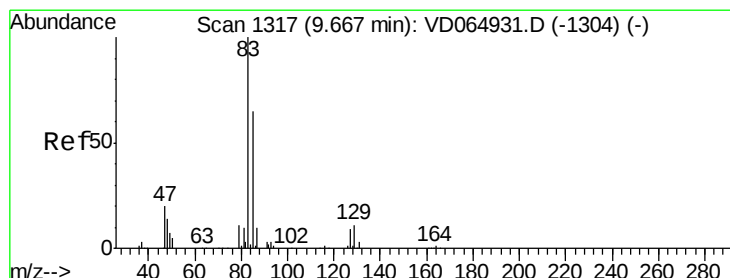
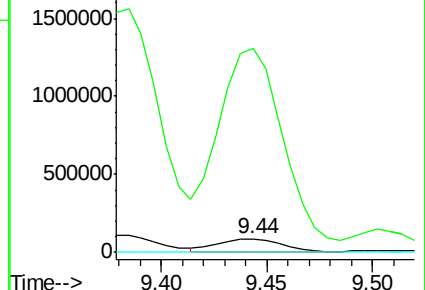
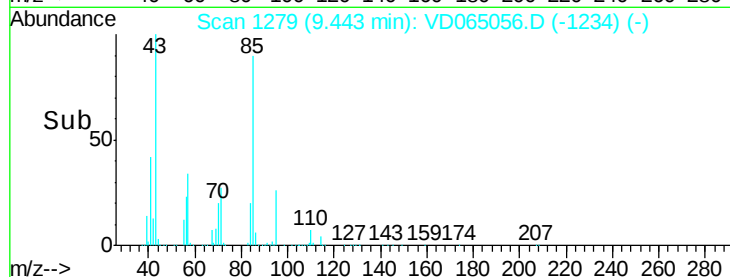
174 0.4 88.4 132.6#



Abundance Ion 92.80 (92.50 to 93.50): VDC

Ion 94.80 (94.50 to 95.50): VDC

Ion 173.70 (173.40 to 174.40): V



#47

Bromodichloromethane

Concen: 924.243 ug/l

RT: 9.66 min Scan# 1315

Delta R.T. -0.01 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

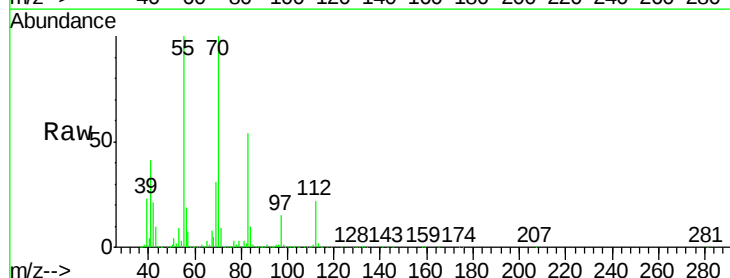
Tgt Ion: 83 Resp: 9674227

Ion Ratio Lower Upper

83 100

85 1.8 52.0 78.0#

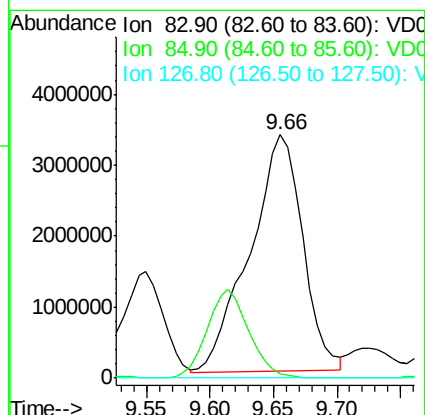
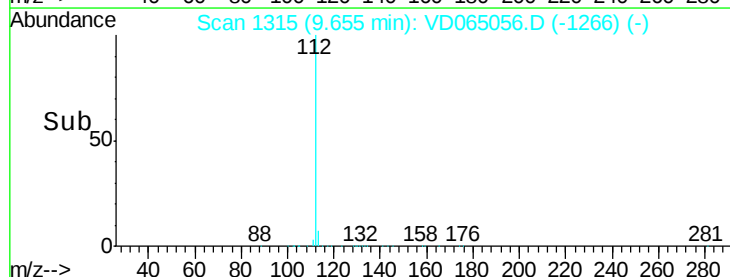
127 0.0 7.3 10.9#

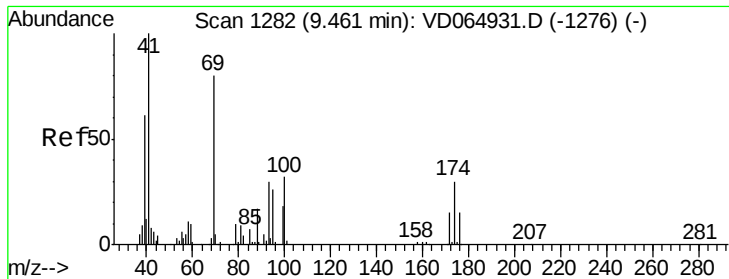


Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 126.80 (126.50 to 127.50): V

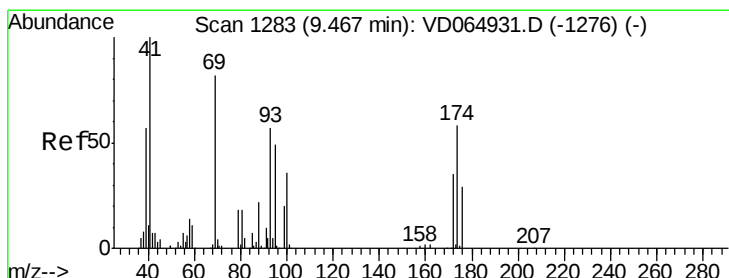
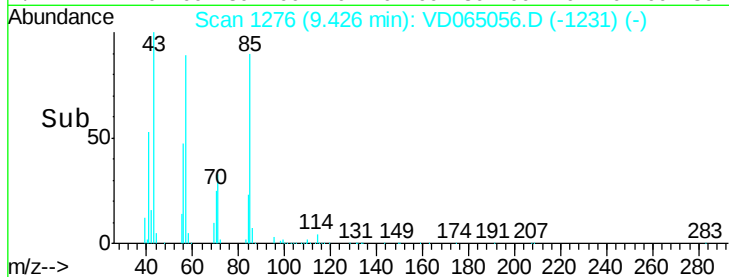
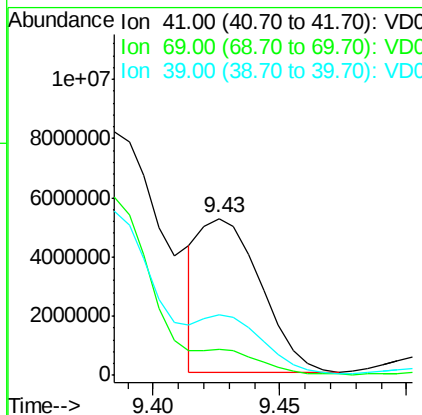
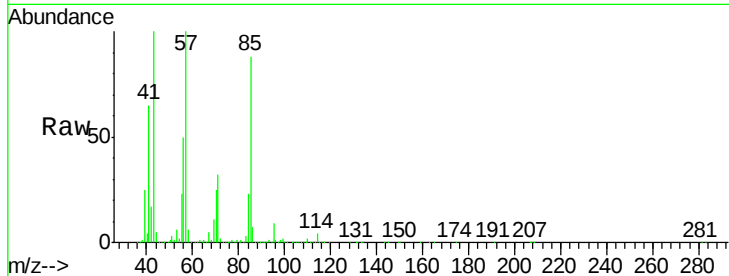




#48
Methyl methacrylate
Concen: 2152.641 ug/l
RT: 9.43 min Scan# 1276
Delta R.T. -0.04 min
Lab File: VD065056.D
Acq: 03 Feb 2020 16:11

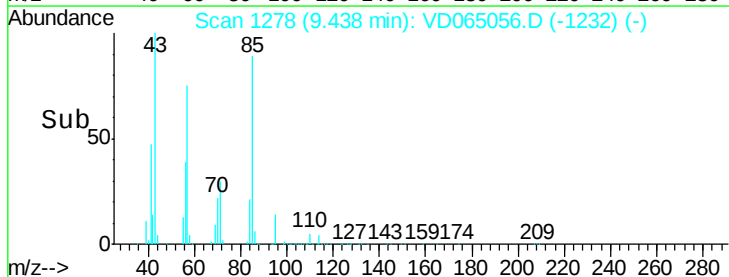
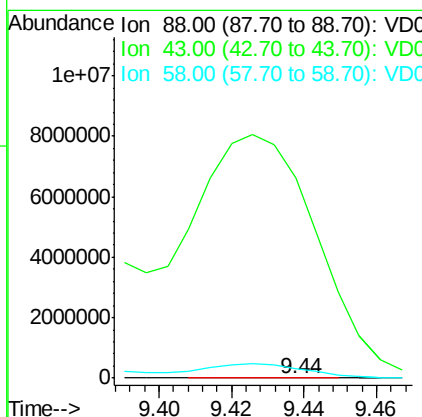
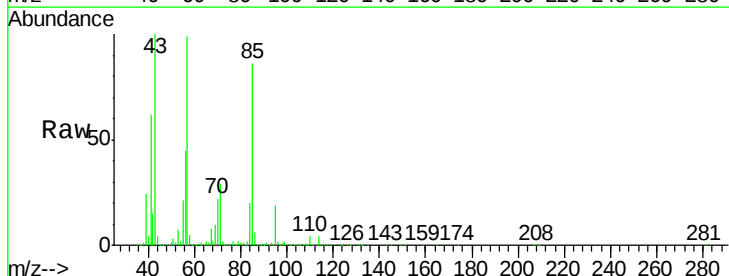
Instrument :
MSVOA_D
ClientSampleId :
PD-4-(30-32)

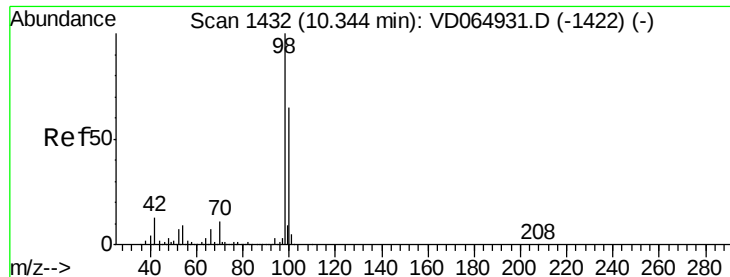
Tot Ion: 41 Resp: 8577291
Ion Ratio Lower Upper
41 100
69 0.0 65.8 98.8#
39 0.0 49.4 74.0#



#49
1,4-Dioxane
Concen: 13.997 ug/l
RT: 9.44 min Scan# 1278
Delta R.T. -0.03 min
Lab File: VD065056.D
Acq: 03 Feb 2020 16:11

Tgt Ion: 88 Resp: 653
Ion Ratio Lower Upper
88 100
43 2952459.6 26.2 39.4#
58 140952.2 50.3 75.5#





#50

Toluene-d8

Concen: 234.745 ug/l

RT: 10.36 min Scan# 1434

Delta R.T. 0.01 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

Instrument :

MSVOA_D

ClientSampleId :

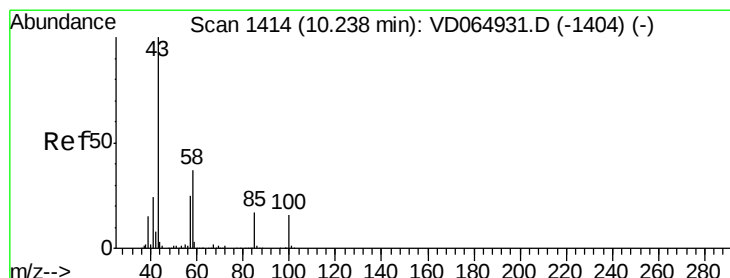
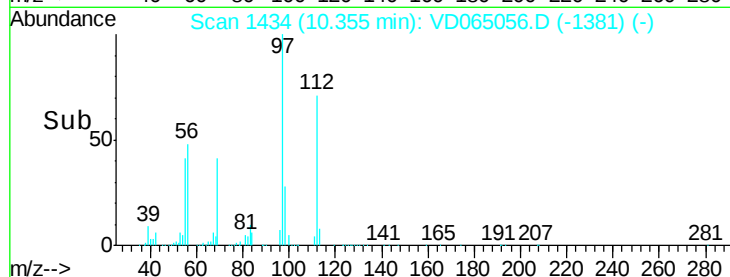
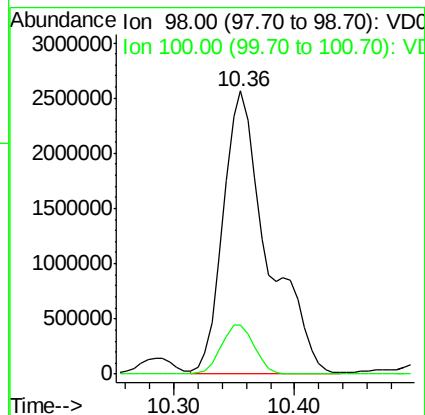
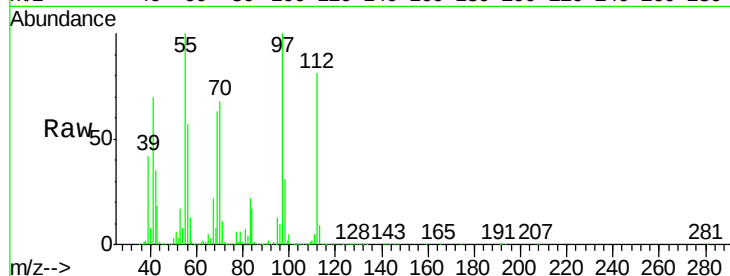
PD-4-(30-32)

Tot Ion: 98 Resp: 6515827

Ion Ratio Lower Upper

98 100

100 13.1 52.3 78.5#



#51

4-Methyl-2-Pentanone

Concen: 806.858 ug/l

RT: 10.29 min Scan# 1423

Delta R.T. 0.05 min

Lab File: VD065056.D

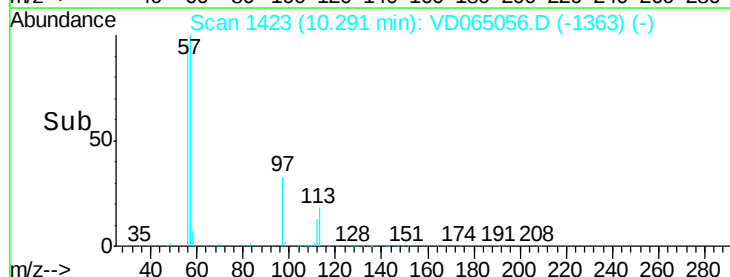
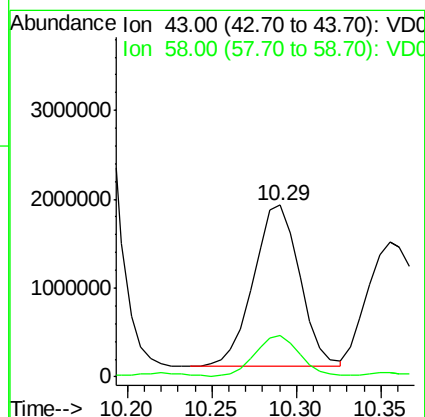
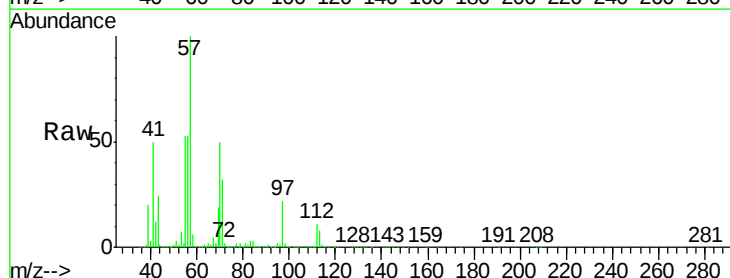
Acq: 03 Feb 2020 16:11

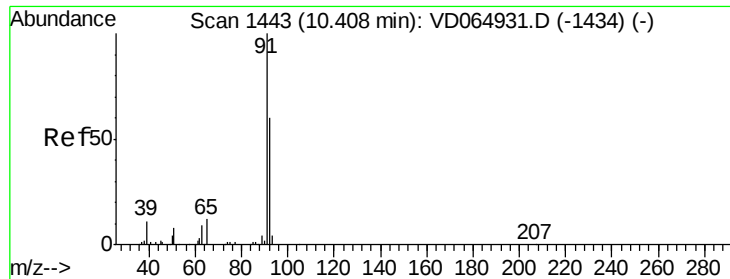
Tgt Ion: 43 Resp: 3495647

Ion Ratio Lower Upper

43 100

58 23.5 30.4 45.6#





#52

Toluene

Concen: 9.938 ug/l

RT: 10.41 min Scan# 1444

Delta R.T. 0.01 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

Instrument :

MSVOA_D

ClientSampleId :

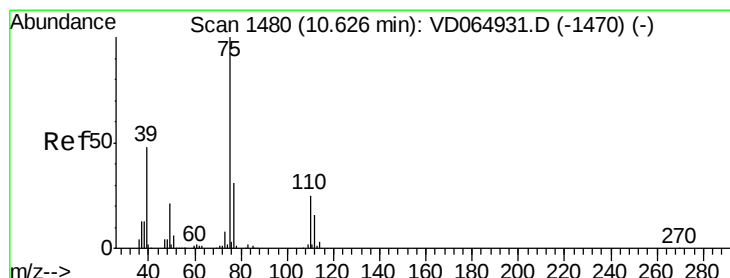
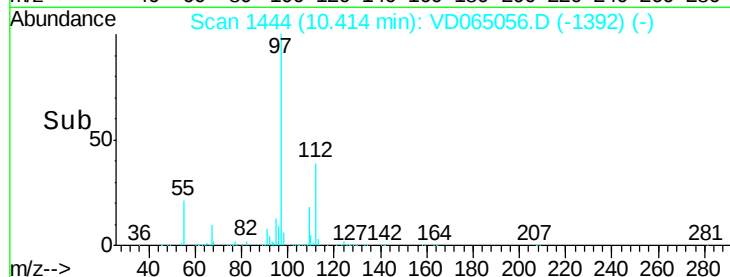
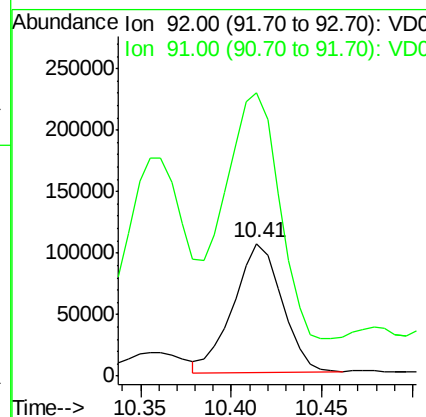
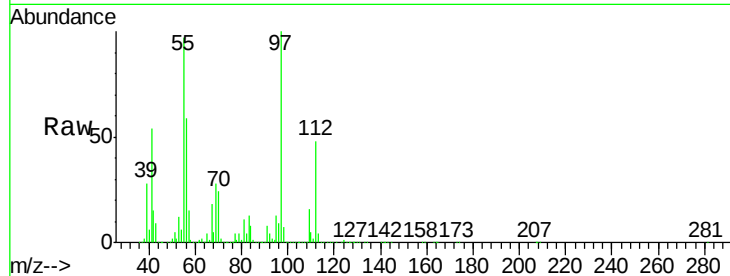
PD-4-(30-32)

Tot Ion: 92 Resp: 194737

Ion Ratio Lower Upper

92 100

91 207.6 136.8 205.2#



#53

t-1,3-Dichloropropene

Concen: 1.111 ug/l

RT: 10.65 min Scan# 1484

Delta R.T. 0.02 min

Lab File: VD065056.D

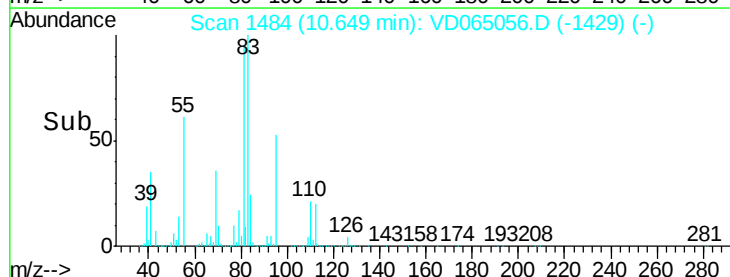
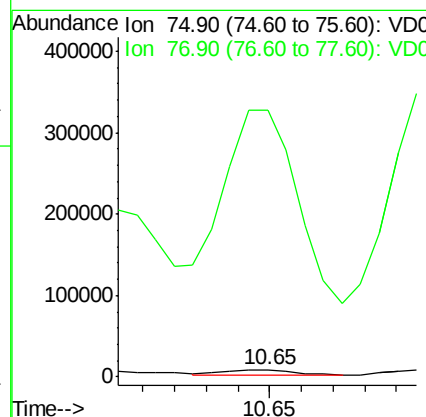
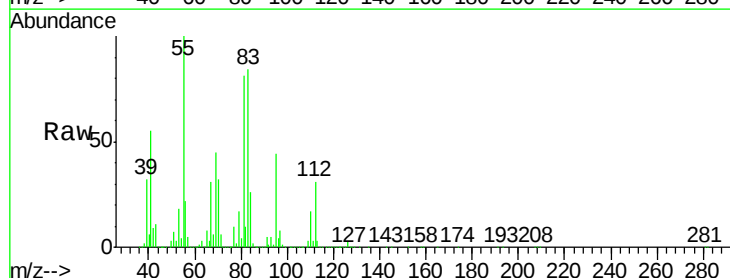
Acq: 03 Feb 2020 16:11

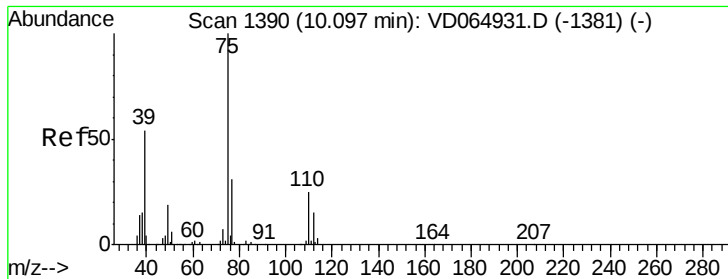
Tgt Ion: 75 Resp: 11079

Ion Ratio Lower Upper

75 100

77 3819.5 25.0 37.6#





#54

cis-1,3-Dichloropropene

Concen: 1.478 ug/l

RT: 10.14 min Scan# 1397

Delta R.T. 0.04 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

Instrument :

MSVOA_D

ClientSampleId :

PD-4-(30-32)

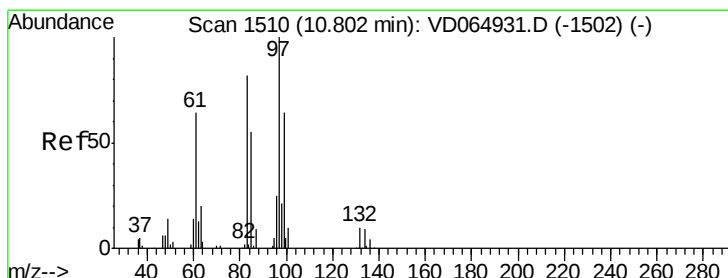
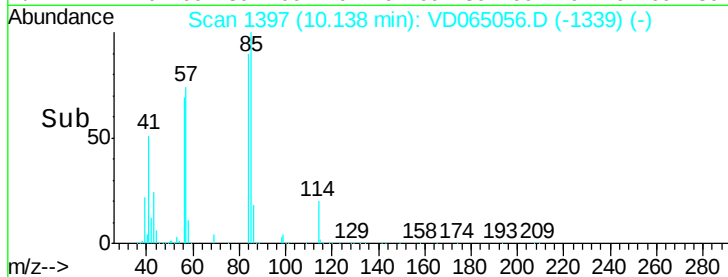
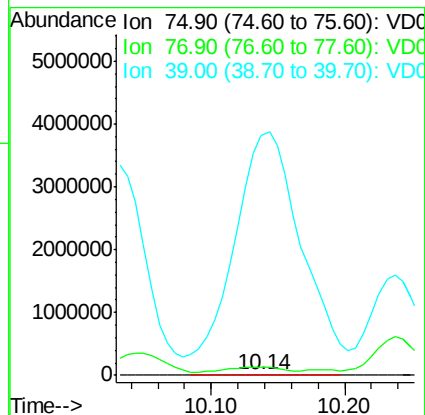
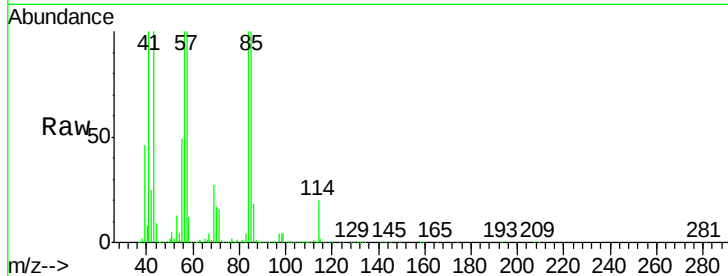
Tot Ion: 75 Resp: 17249

Ion Ratio Lower Upper

75 100

77 1173.5 25.1 37.7#

39 55515.1 43.0 64.6#



#55

1,1,2-Trichloroethane

Concen: 3346.227 ug/l

RT: 10.80 min Scan# 1509

Delta R.T. -0.01 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

Tgt Ion: 97 Resp:18131365

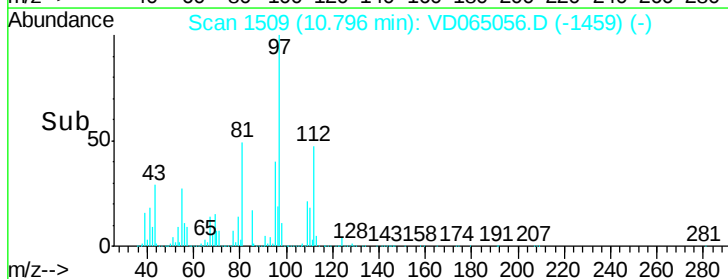
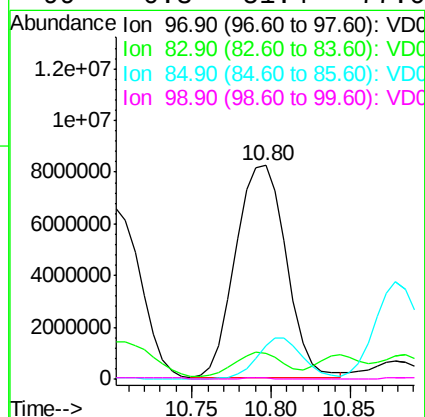
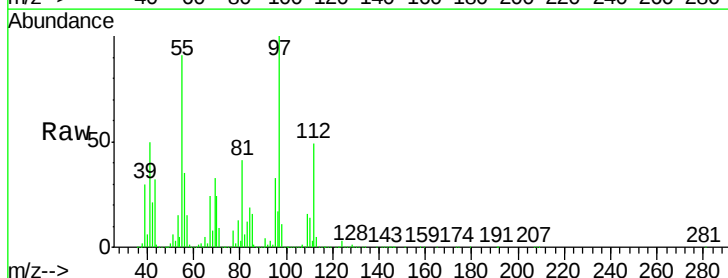
Ion Ratio Lower Upper

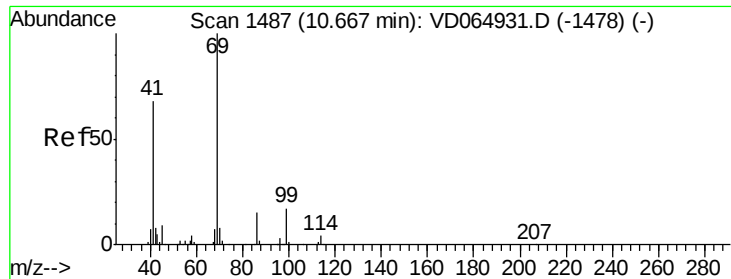
97 100

83 10.7 66.0 99.0#

85 15.6 44.4 66.6#

99 0.3 51.4 77.0#





#56

Ethyl methacrylate

Concen: 759.406 ug/l

RT: 10.71 min Scan# 1494

Delta R.T. 0.04 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

Instrument :

MSVOA_D

ClientSampleId :

PD-4-(30-32)

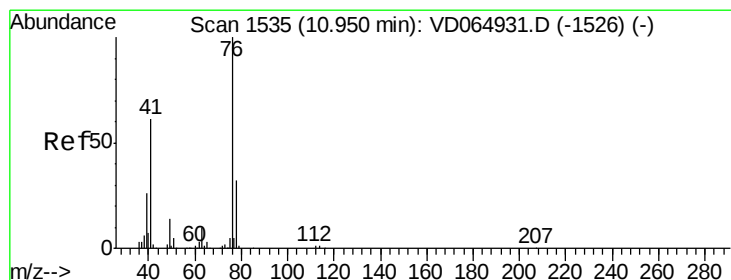
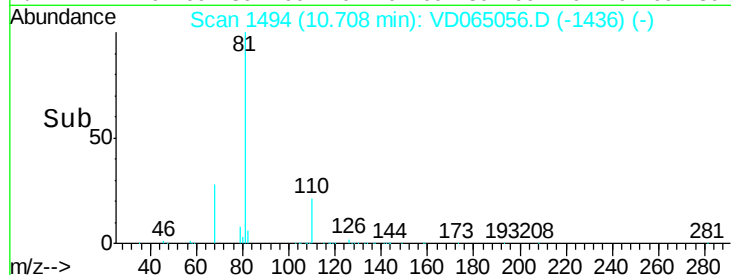
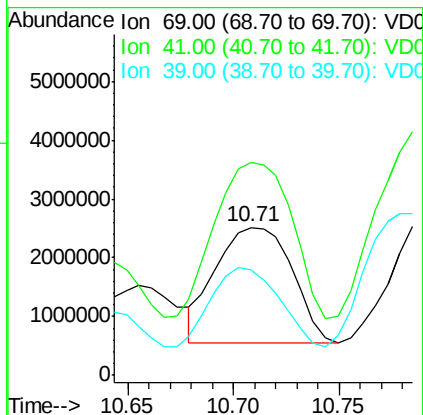
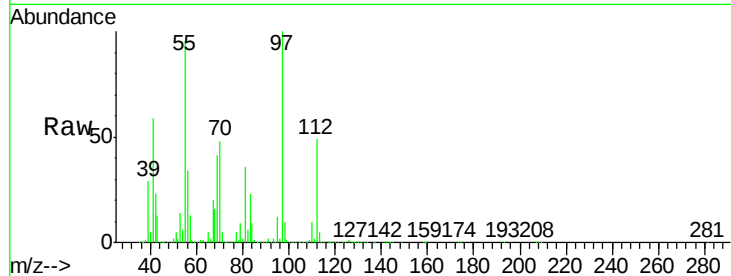
Tot Ion: 69 Resp: 4920573

Ion Ratio Lower Upper

69 100

41 143.5 56.4 84.6#

39 74.6 30.6 46.0#



#57

1,3-Dichloropropane

Concen: 1.099 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. -0.00 min

Lab File: VD065056.D

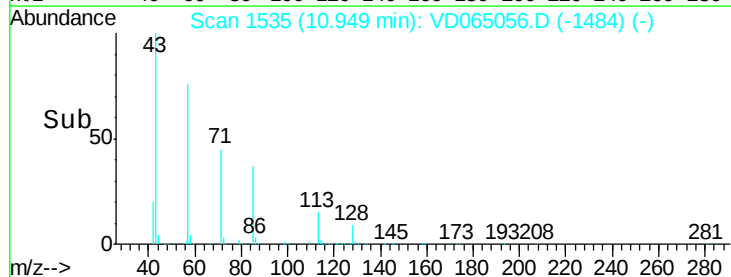
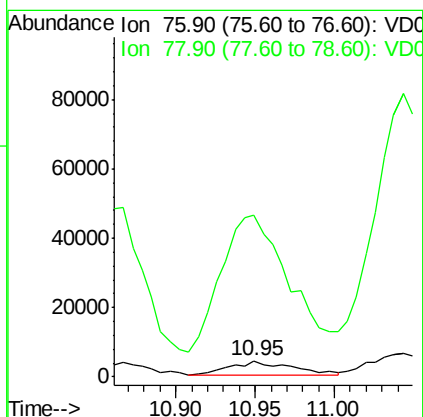
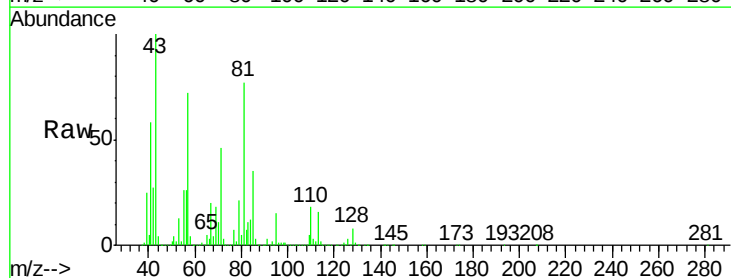
Acq: 03 Feb 2020 16:11

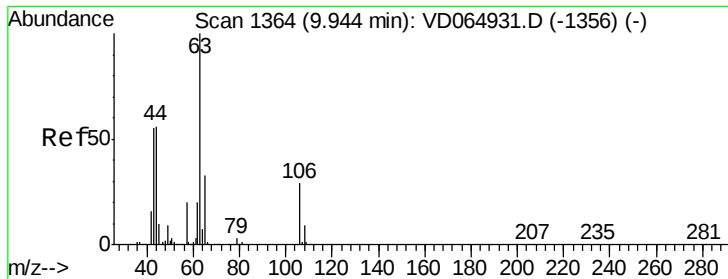
Tgt Ion: 76 Resp: 10211

Ion Ratio Lower Upper

76 100

78 1138.5 25.7 38.5#

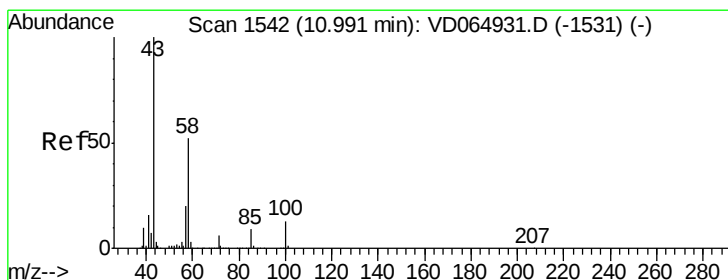
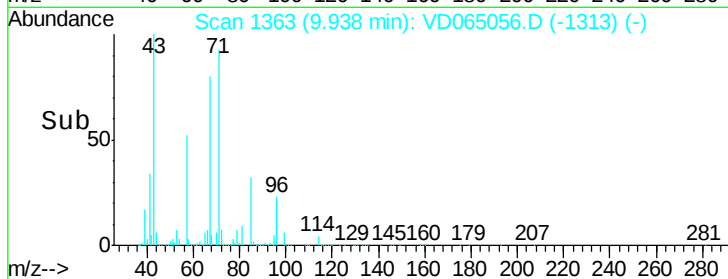
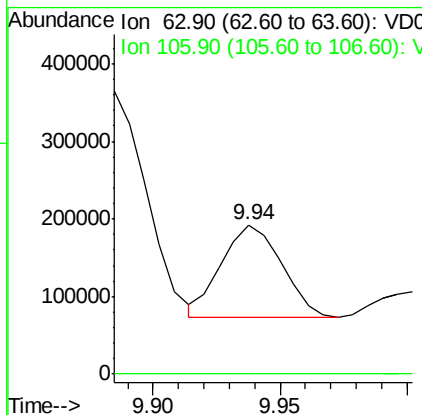
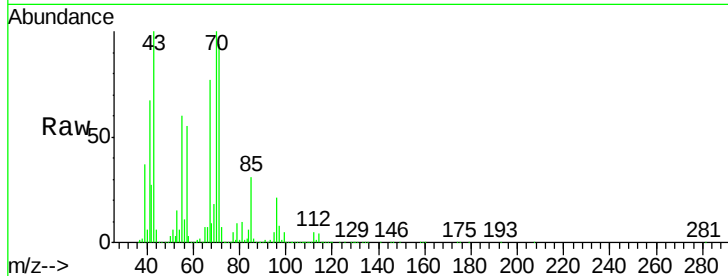




#58
 2-Chloroethyl Vinyl ether
 Concen: 92.044 ug/l
 RT: 9.94 min Scan# 1363
 Delta R.T. -0.01 min
 Lab File: VD065056.D
 Acq: 03 Feb 2020 16:11

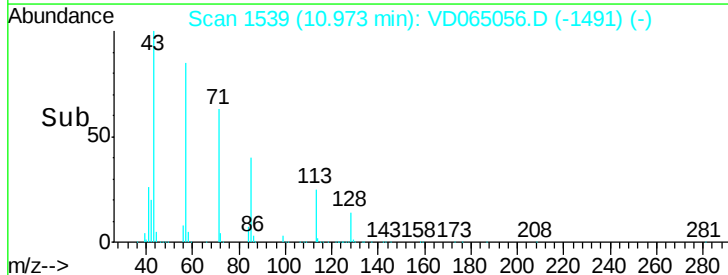
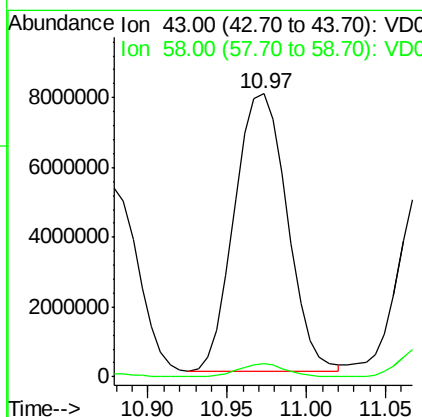
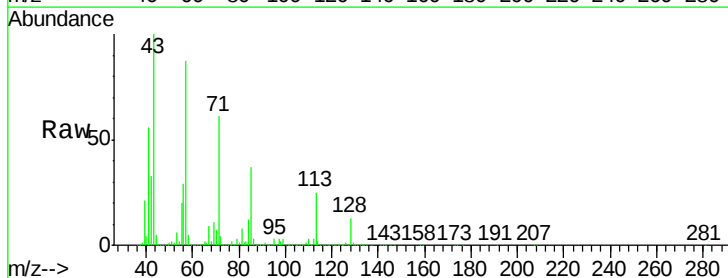
Instrument :
 MSVOA_D
 ClientSampleId :
 PD-4-(30-32)

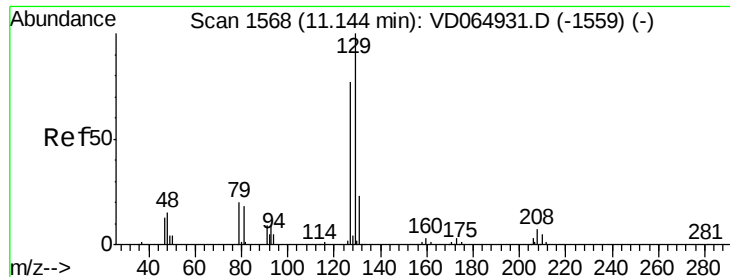
Tot Ion: 63 Resp: 198138
 Ion Ratio Lower Upper
 63 100
 106 0.0 23.0 34.4#



#59
 2-Hexanone
 Concen: 6128.202 ug/l
 RT: 10.97 min Scan# 1539
 Delta R.T. -0.02 min
 Lab File: VD065056.D
 Acq: 03 Feb 2020 16:11

Tgt Ion: 43 Resp:18313402
 Ion Ratio Lower Upper
 43 100
 58 4.3 26.5 79.4#





#60

Dibromochloromethane

Concen: 5.471 ug/l

RT: 11.38 min Scan# 1608

Delta R.T. 0.24 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

Instrument :

MSVOA_D

ClientSampleId :

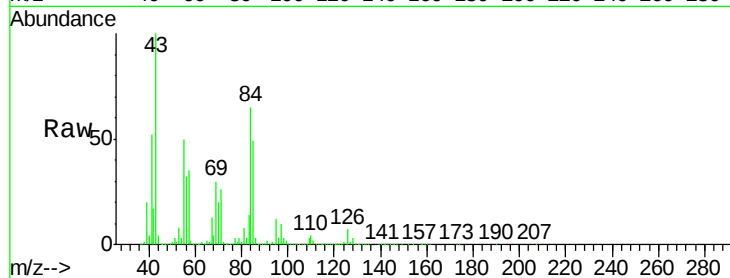
PD-4-(30-32)

Tot Ion:129 Resp: 39621

Ion Ratio Lower Upper

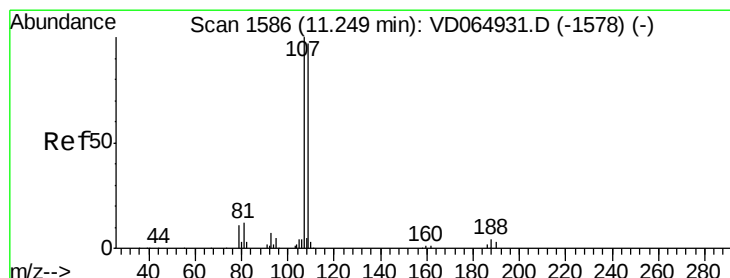
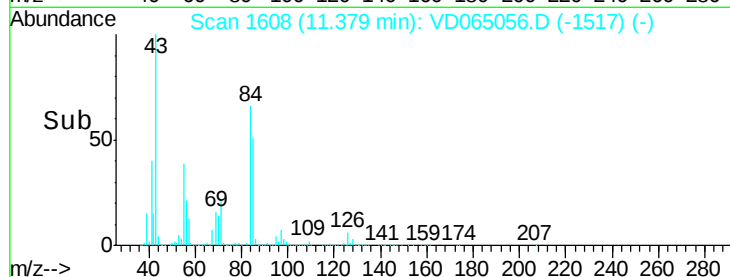
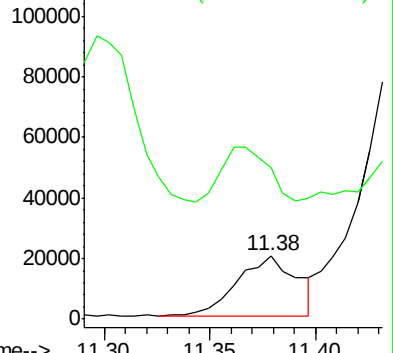
129 100

127 89.9 38.2 114.6



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#61

1,2-Dibromoethane

Concen: 25.594 ug/l

RT: 11.23 min Scan# 1583

Delta R.T. -0.02 min

Lab File: VD065056.D

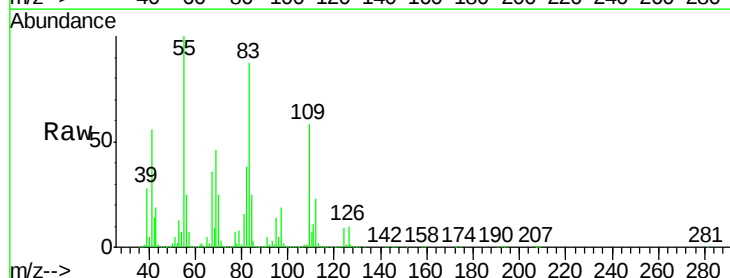
Acq: 03 Feb 2020 16:11

Tgt Ion:107 Resp: 133533

Ion Ratio Lower Upper

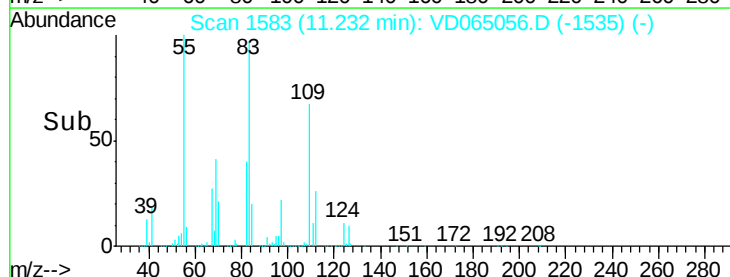
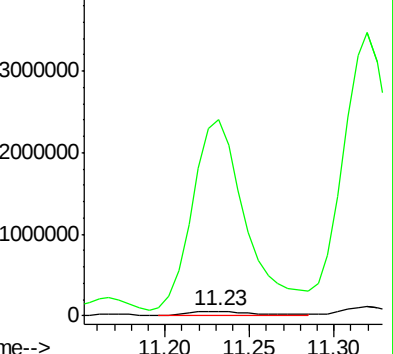
107 100

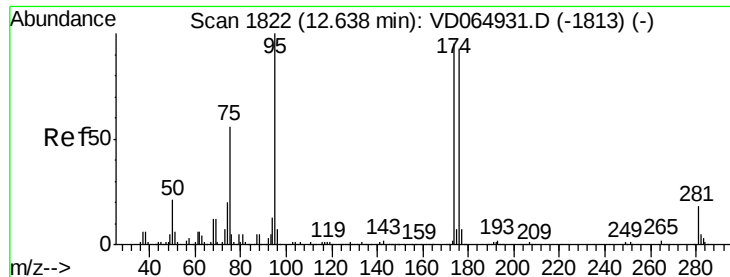
109 3833.2 77.1 115.7#



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V





#62

4-Bromofluorobenzene

Concen: 257.603 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

Instrument :

MSVOA_D

ClientSampleId :

PD-4-(30-32)

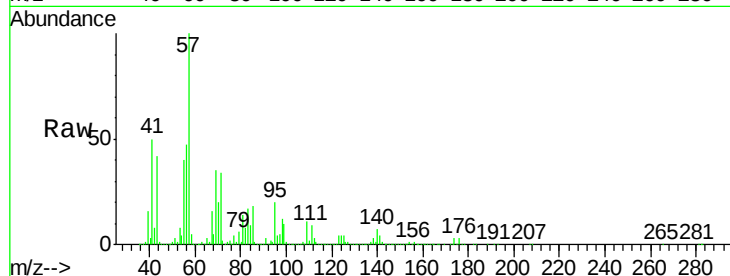
Tot Ion: 95 Resp: 2188143

Ion Ratio Lower Upper

95 100

174 18.8 0.0 186.8

176 18.3 0.0 183.4



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

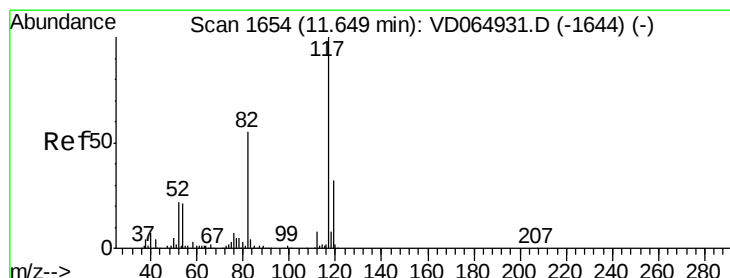
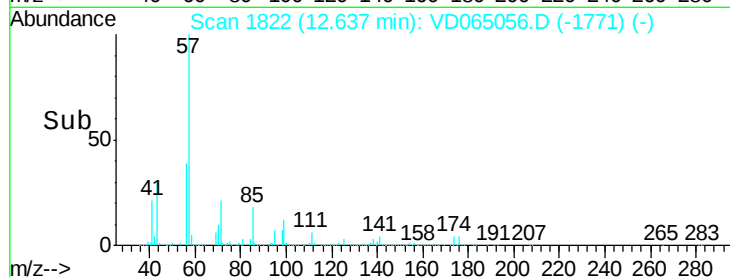
12.64

1000000

500000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.66 min Scan# 1655

Delta R.T. 0.01 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

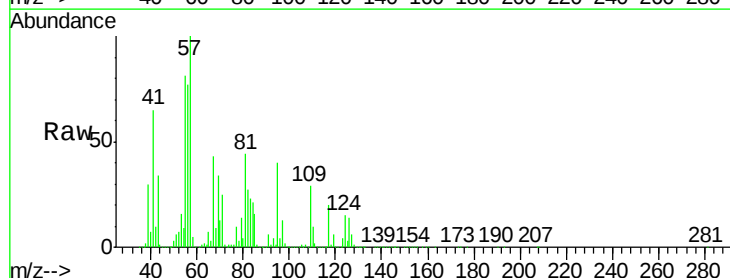
Tgt Ion: 117 Resp: 987819

Ion Ratio Lower Upper

117 100

82 45.5 43.6 65.4

119 31.9 25.2 37.8



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

2000000

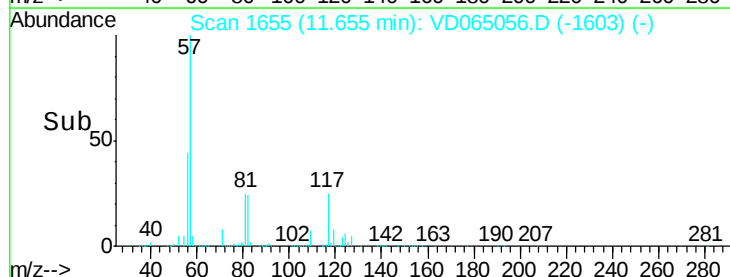
1500000

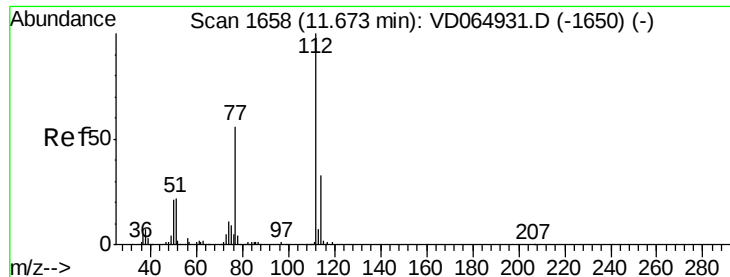
1000000

500000

0

Time-->

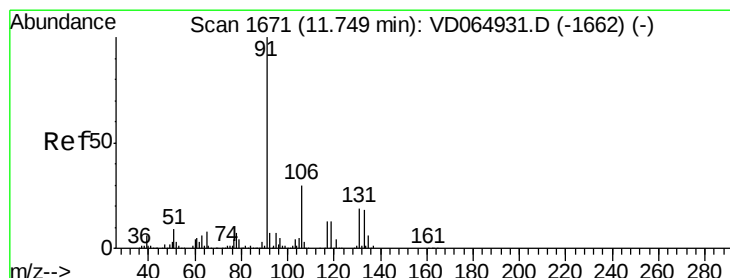
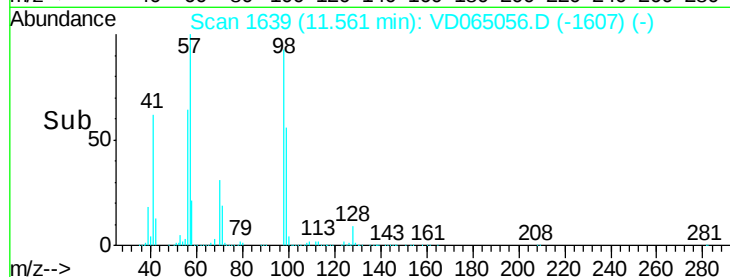
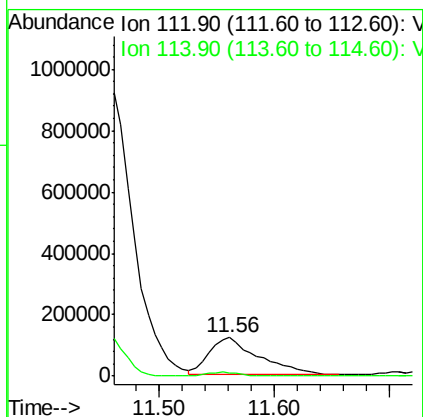
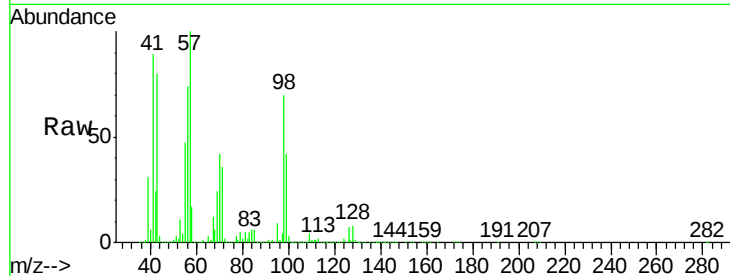




#65
Chlorobenzene
Concen: 18.547 ug/l
RT: 11.56 min Scan# 1639
Delta R.T. -0.11 min
Lab File: VD065056.D
Acq: 03 Feb 2020 16:11

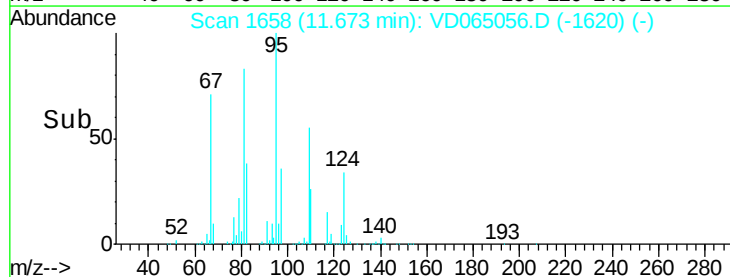
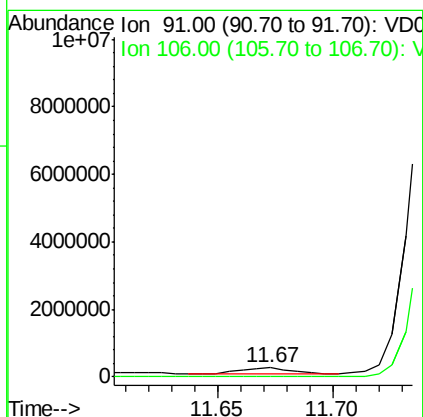
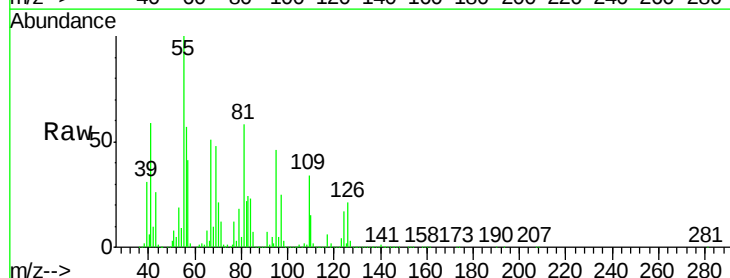
Instrument :
MSVOA_D
ClientSampleId :
PD-4-(30-32)

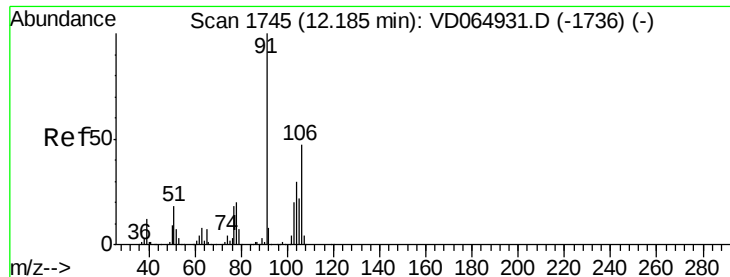
Tot Ion:112 Resp: 371982
Ion Ratio Lower Upper
112 100
114 8.8 26.2 39.4#



#67
Ethyl Benzene
Concen: 9.355 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. -0.08 min
Lab File: VD065056.D
Acq: 03 Feb 2020 16:11

Tgt Ion: 91 Resp: 333116
Ion Ratio Lower Upper
91 100
106 1.7 24.3 36.5#

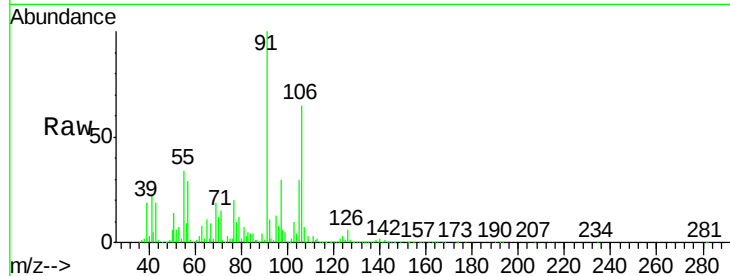




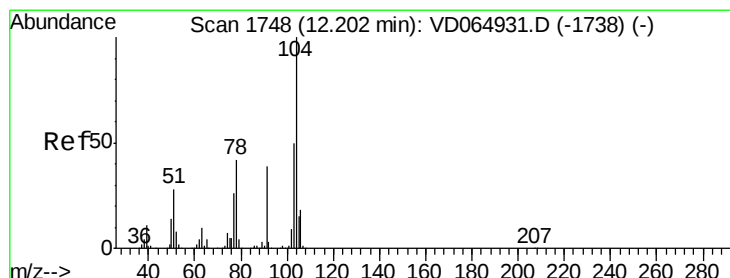
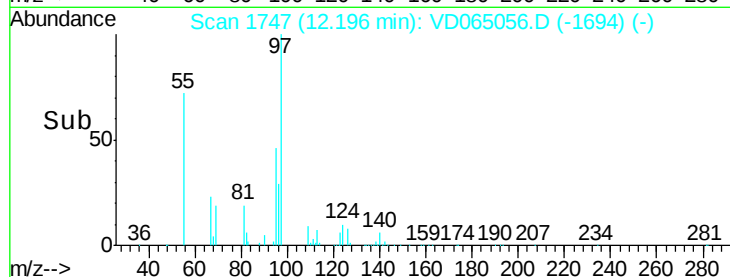
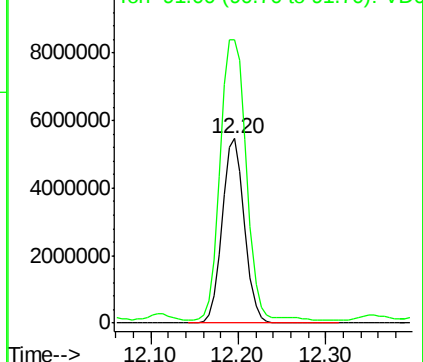
#69
o-Xylene
Concen: 783.701 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. 0.01 min
Lab File: VD065056.D
Acq: 03 Feb 2020 16:11

Instrument :
MSVOA_D
ClientSampleId :
PD-4-(30-32)

Tot Ion:106 Resp: 9535494
Ion Ratio Lower Upper
106 100
91 177.9 106.7 319.9

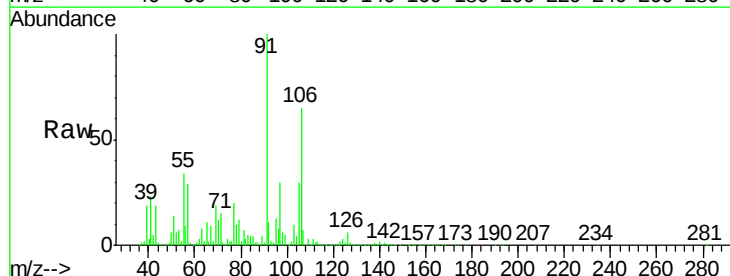


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

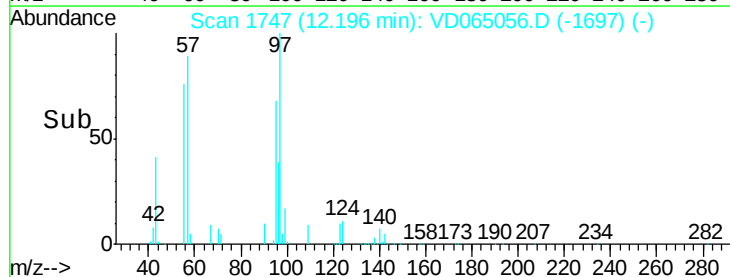
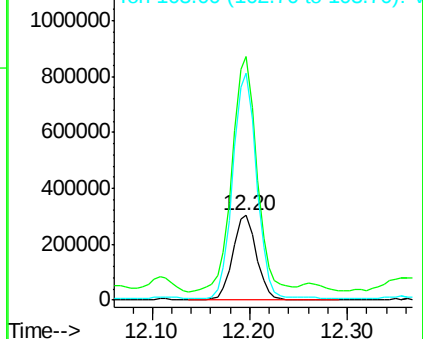


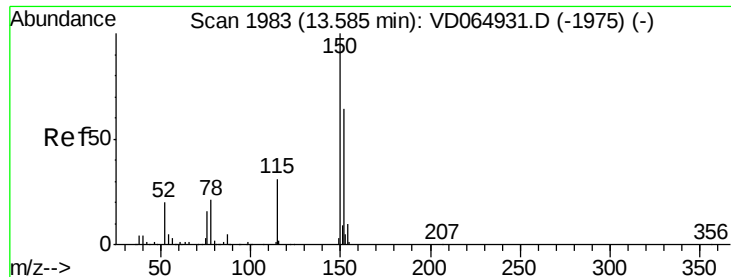
#70
Styrene
Concen: 23.427 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. -0.01 min
Lab File: VD065056.D
Acq: 03 Feb 2020 16:11

Tgt Ion:104 Resp: 507763
Ion Ratio Lower Upper
104 100
78 294.6 38.3 57.5#
103 269.2 43.5 65.3#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): V
Ion 103.00 (102.70 to 103.70): V



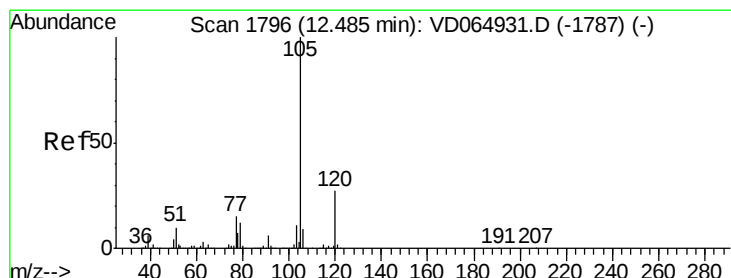
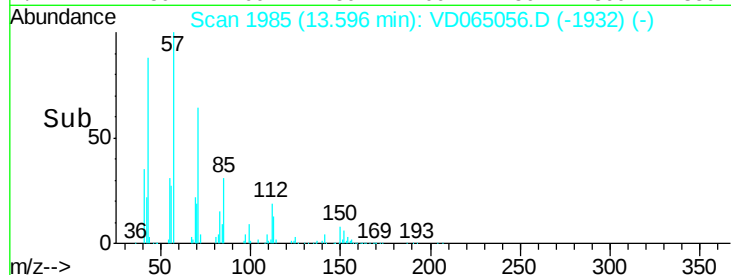
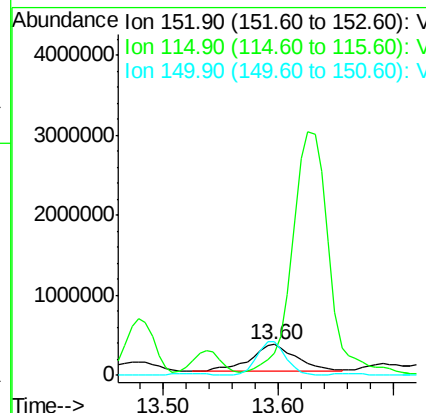
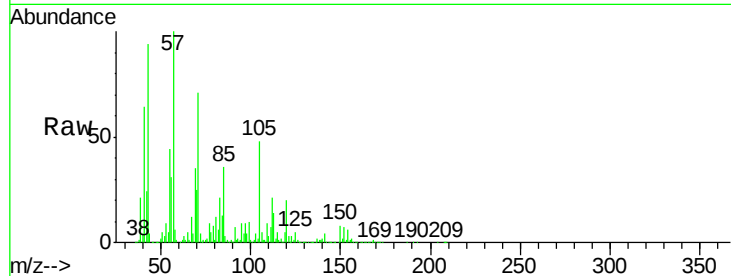


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.60 min Scan# 1985
Delta R.T. 0.01 min
Lab File: VD065056.D
Acq: 03 Feb 2020 16:11

Instrument :
MSVOA_D
ClientSampleId :
PD-4-(30-32)

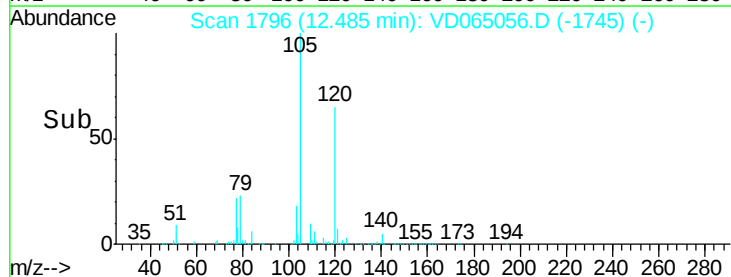
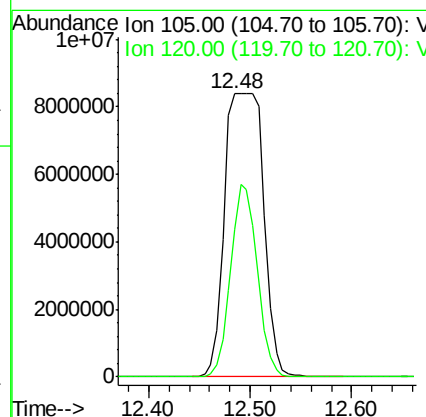
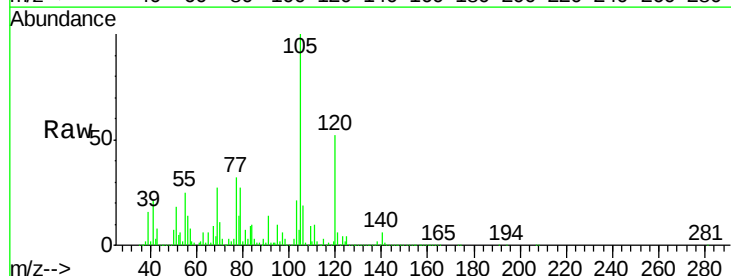
Tot Ion:152 Resp: 949362
Ion Ratio Lower Upper
152 100
115 0.0 28.1 84.4#
150 76.7 0.0 350.4

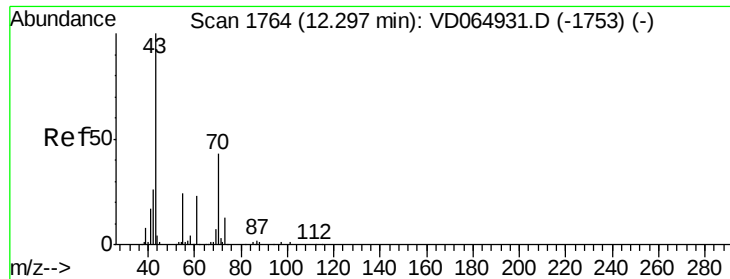


#73

Isopropylbenzene
Concen: 342.676 ug/l
RT: 12.48 min Scan# 1796
Delta R.T. -0.00 min
Lab File: VD065056.D
Acq: 03 Feb 2020 16:11

Tgt Ion:105 Resp:22235542
Ion Ratio Lower Upper
105 100
120 46.4 13.3 39.8#





#74

N-amvl acetate

Concen: 587.547 ug/l

RT: 12.28 min Scan# 1762

Delta R.T. -0.01 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

Instrument :

MSVOA_D

ClientSampled :

PD-4-(30-32)

Tot Ion: 43 Resp: 8531090

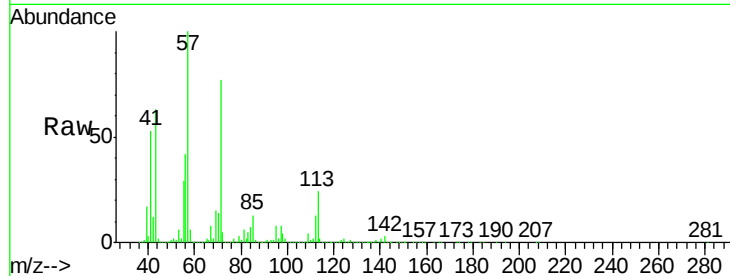
Ion Ratio Lower Upper

43 100

70 19.1 32.6 49.0#

55 5.5 19.9 29.9#

61 0.0 18.3 27.5#

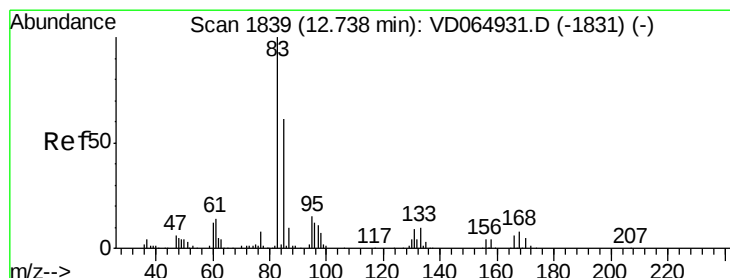
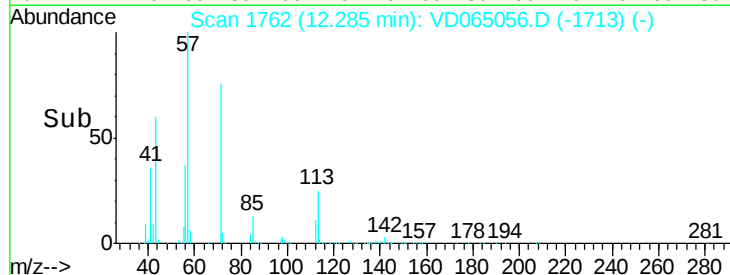
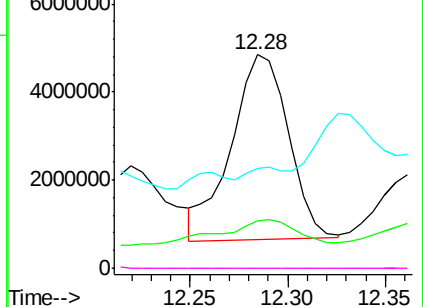


Abundance Ion 43.00 (42.70 to 43.70): VDC

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: 114.141 ug/l

RT: 12.70 min Scan# 1832

Delta R.T. -0.04 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

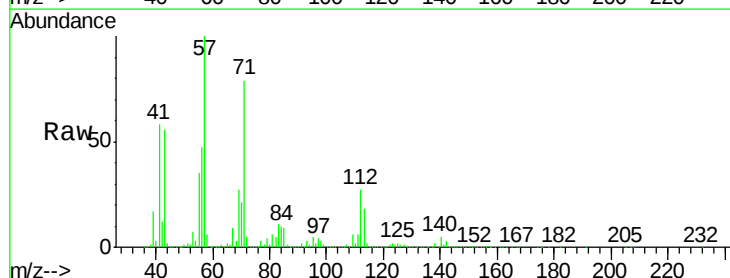
Tgt Ion: 83 Resp: 1244802

Ion Ratio Lower Upper

83 100

131 0.0 5.5 16.4#

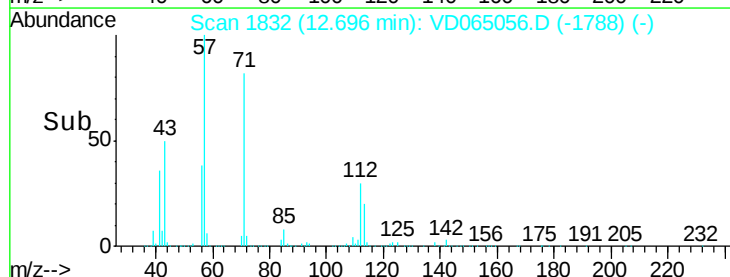
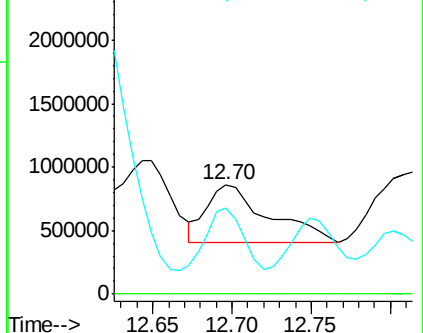
85 63.3 31.6 94.7

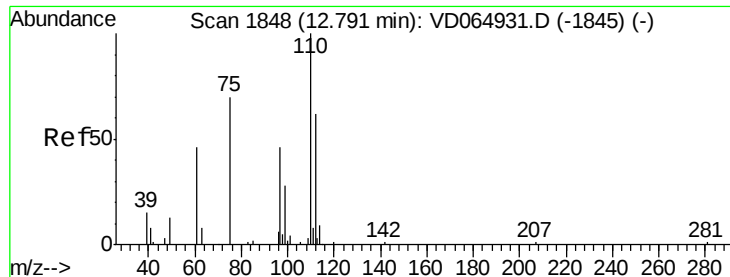


Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VDC





#76

1,2,3-Trichloropropane

Concen: 118.927 ug/l

RT: 12.84 min Scan# 1856

Delta R.T. 0.05 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

Instrument :

MSVOA_D

ClientSampleId :

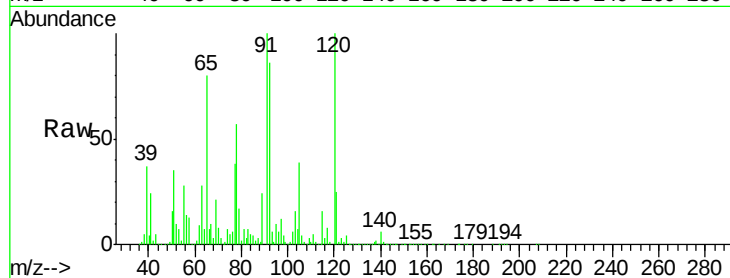
PD-4-(30-32)

Tot Ion: 75 Resp: 937120

Ion Ratio Lower Upper

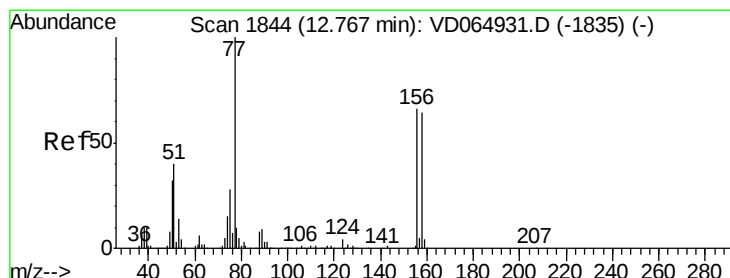
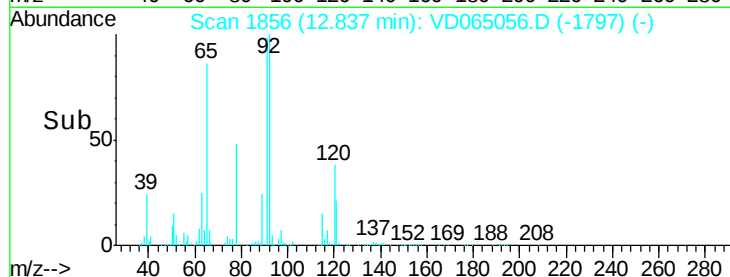
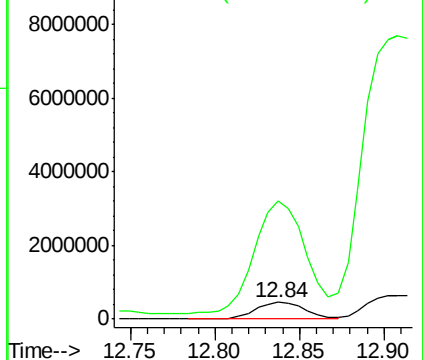
75 100

77 679.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#77

Bromobenzene

Concen: 1.261 ug/l

RT: 12.75 min Scan# 1841

Delta R.T. -0.02 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

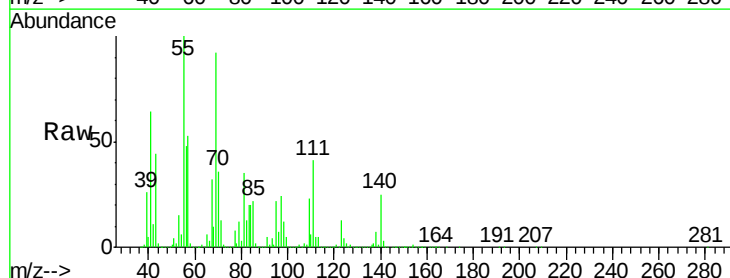
Tgt Ion: 156 Resp: 20014

Ion Ratio Lower Upper

156 100

77 0.0 84.2 252.5#

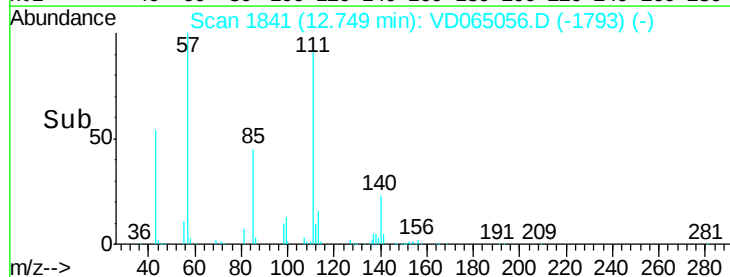
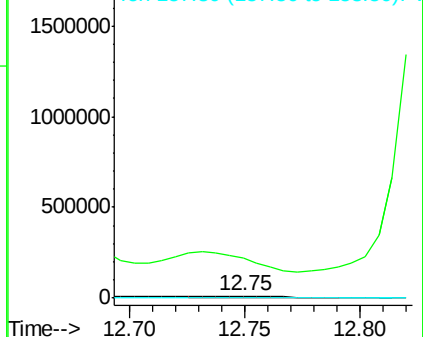
158 1.4 48.1 144.4#

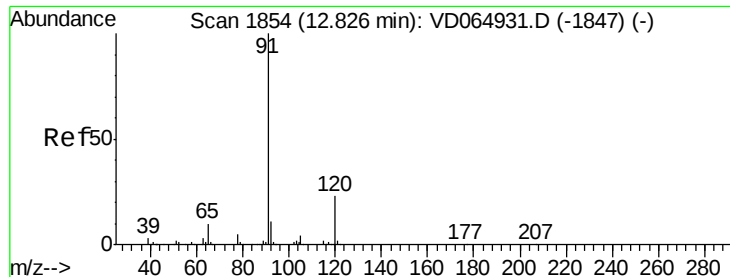


Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V





#78

n-propylbenzene

Concen: 345.688 ug/l

RT: 12.91 min Scan# 1868

Delta R.T. 0.08 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

Instrument :

MSVOA_D

ClientSampleId :

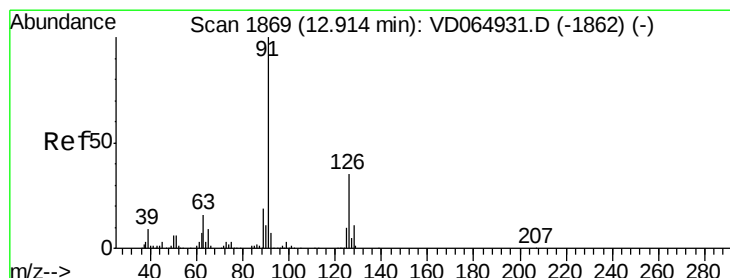
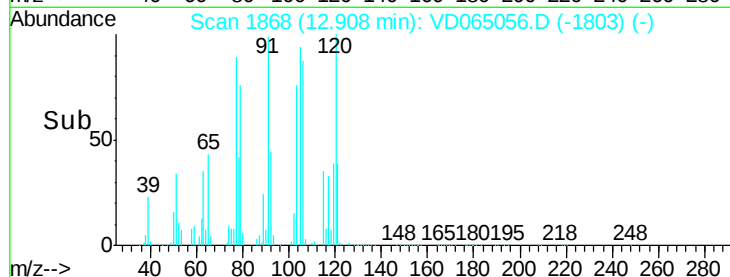
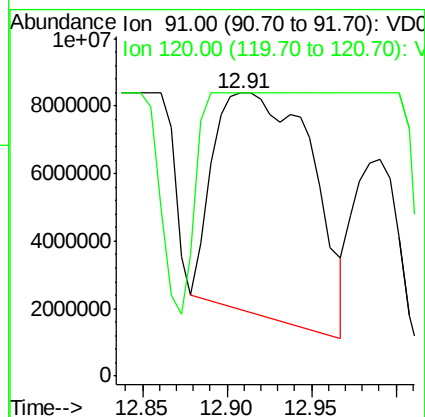
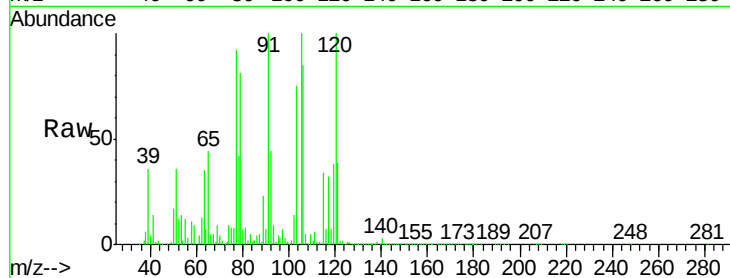
PD-4-(30-32)

Tot Ion: 91 Resp:26675861

Ion Ratio Lower Upper

91 100

120 9.9 11.7 35.1#



#79

2-Chlorotoluene

Concen: 630.147 ug/l

RT: 12.91 min Scan# 1868

Delta R.T. -0.01 min

Lab File: VD065056.D

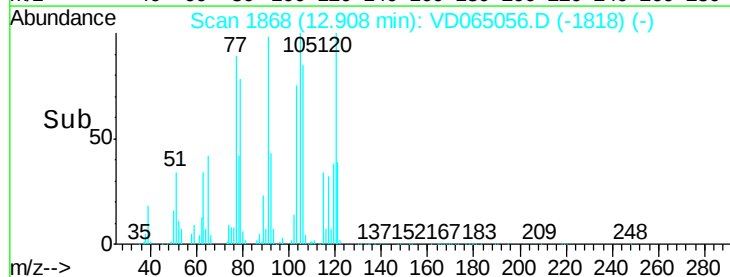
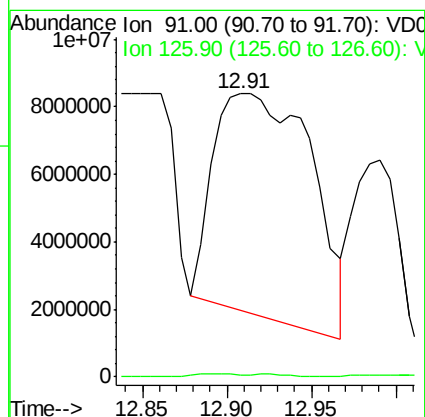
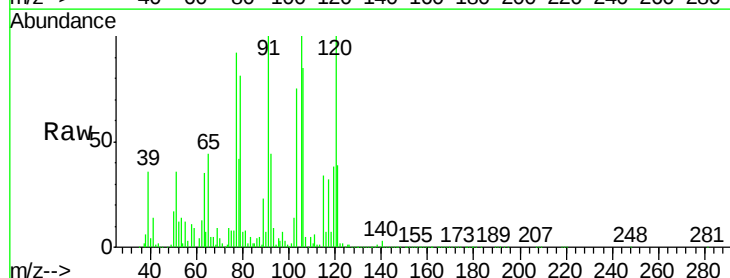
Acq: 03 Feb 2020 16:11

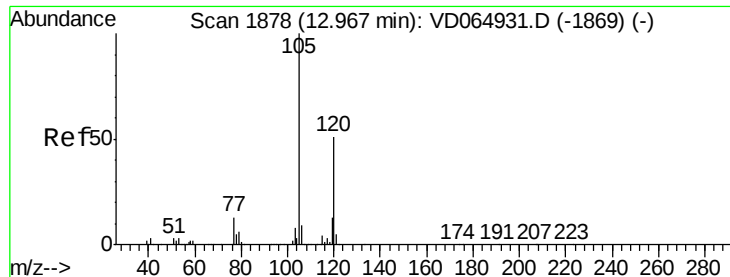
Tgt Ion: 91 Resp:26675861

Ion Ratio Lower Upper

91 100

126 0.7 17.9 53.8#





#80

1,3,5-Trimethylbenzene

Concen: 49.127 ug/l

RT: 12.88 min Scan# 1863

Delta R.T. -0.09 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

Instrument :

MSVOA_D

ClientSampleId :

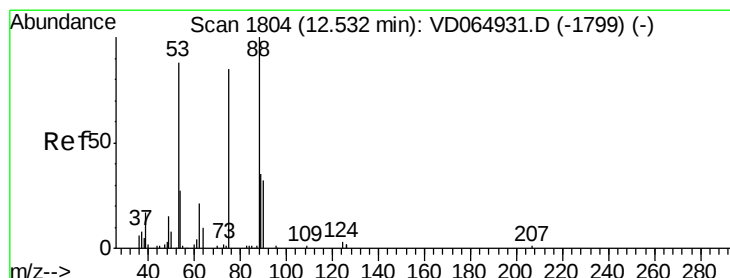
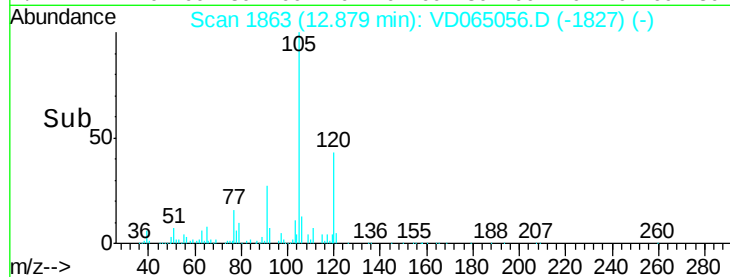
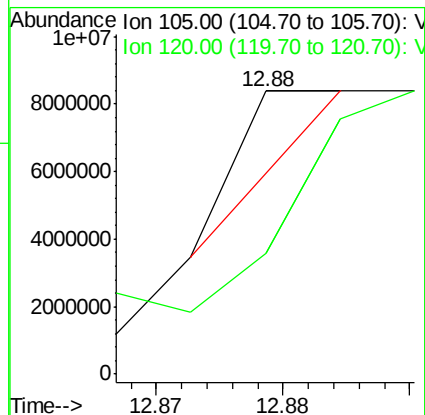
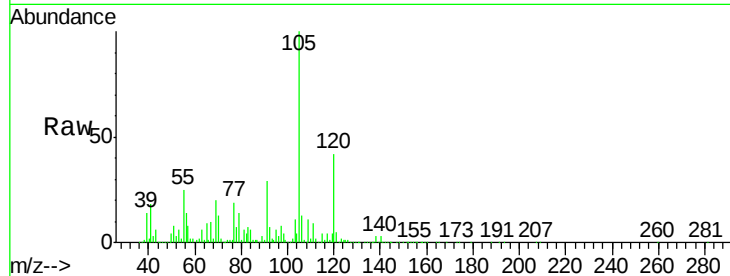
PD-4-(30-32)

Tot Ion:105 Resp: 2612358

Ion Ratio Lower Upper

105 100

120 101.0 25.6 76.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 116.204 ug/l

RT: 12.49 min Scan# 1797

Delta R.T. -0.04 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

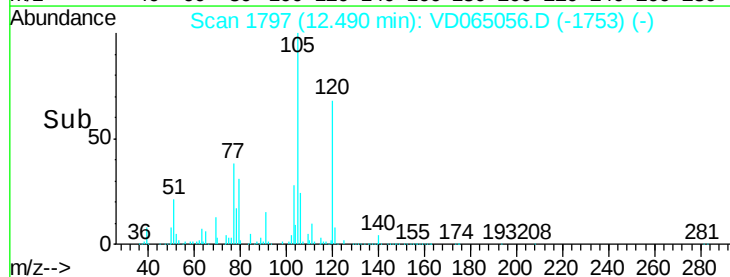
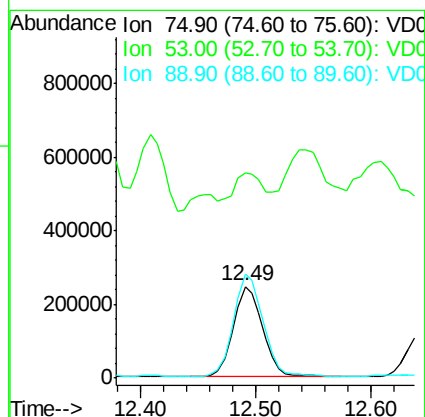
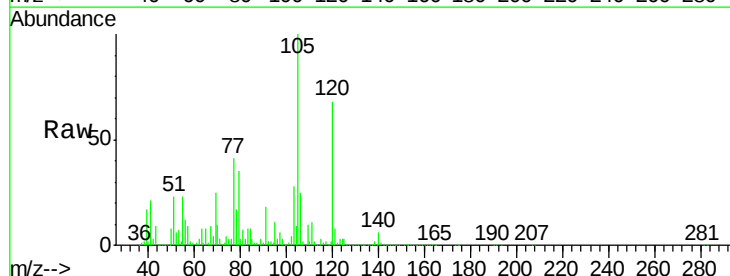
Tgt Ion: 75 Resp: 428836

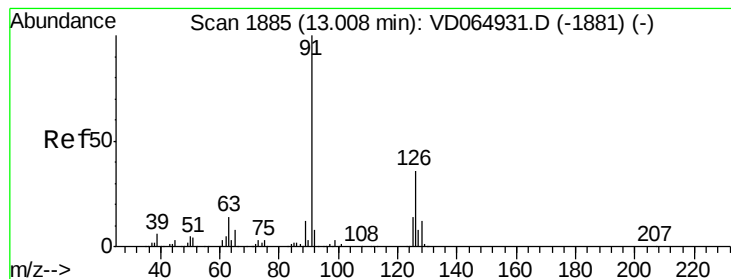
Ion Ratio Lower Upper

75 100

53 38.0 81.0 121.4#

89 115.4 36.2 54.4#





#82

4-Chlorotoluene

Concen: 271.449 ug/l

RT: 12.99 min Scan# 1882

Delta R.T. -0.02 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

Instrument :

MSVOA_D

ClientSampleId :

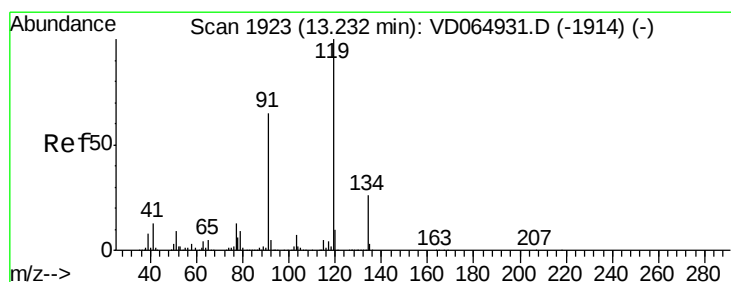
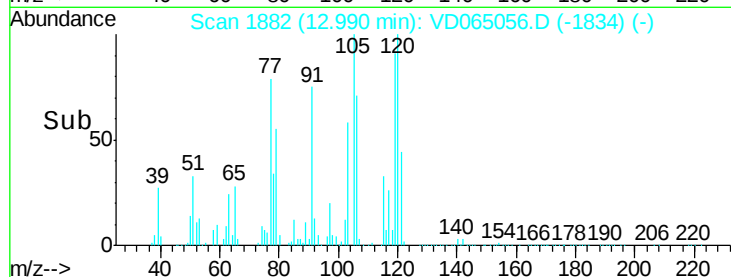
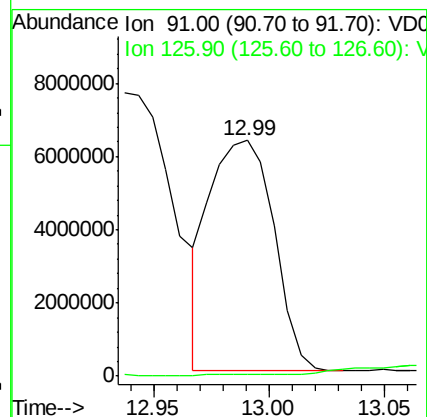
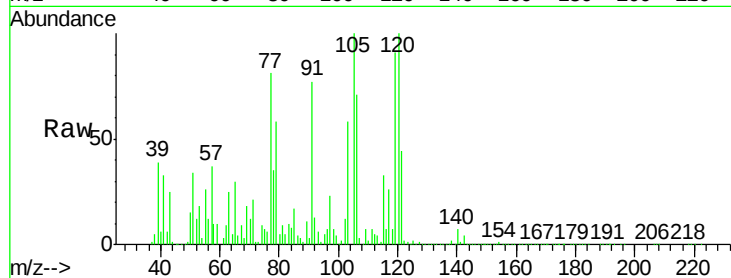
PD-4-(30-32)

Tot Ion: 91 Resp:12186533

Ion Ratio Lower Upper

91 100

126 0.4 18.0 54.0#



#83

tert-Butylbenzene

Concen: 313.384 ug/l

RT: 13.28 min Scan# 1932

Delta R.T. 0.05 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

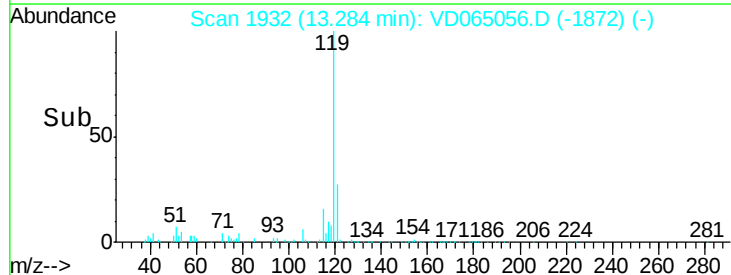
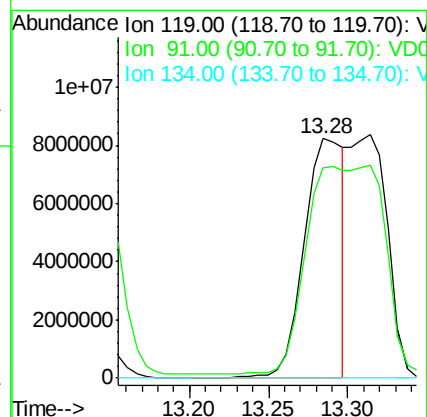
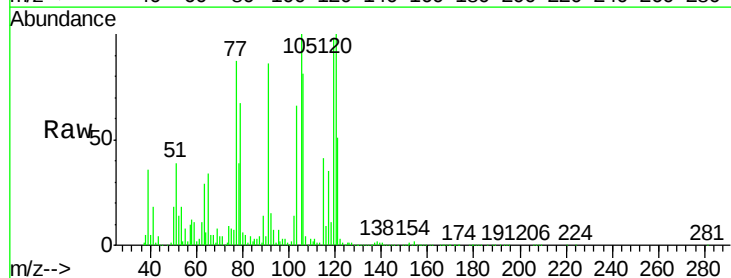
Tgt Ion:119 Resp:14141700

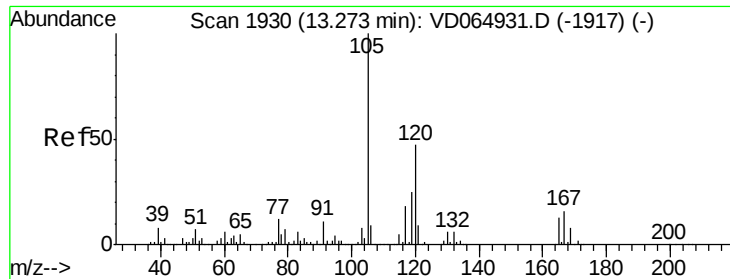
Ion Ratio Lower Upper

119 100

91 86.5 32.0 96.0

134 0.0 13.9 41.6#

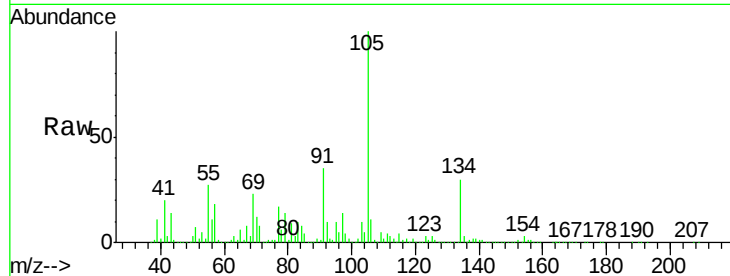




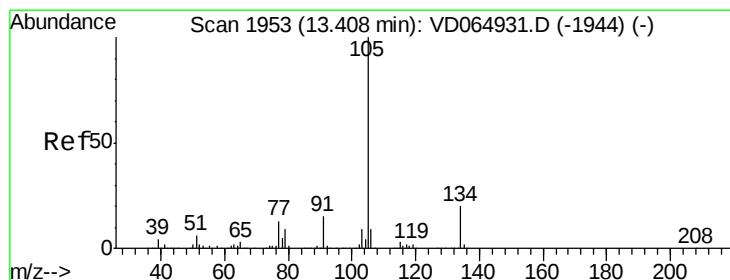
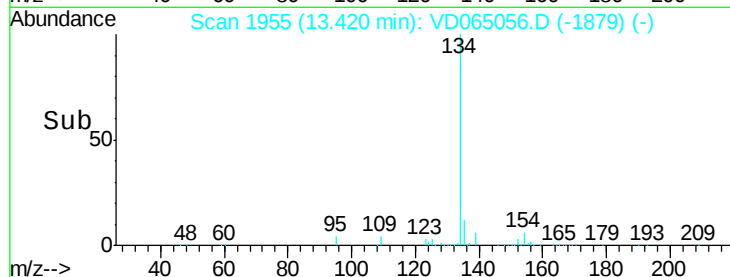
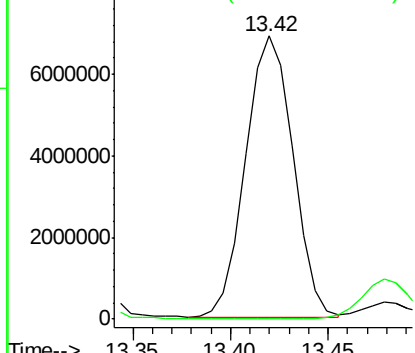
#84
 1,2,4-Trimethylbenzene
 Concen: 214.677 ug/l
 RT: 13.42 min Scan# 1955
 Delta R.T. 0.15 min
 Lab File: VD065056.D
 Acq: 03 Feb 2020 16:11

Instrument :
 MSVOA_D
 ClientSampleId :
 PD-4-(30-32)

Tot Ion:105 Resp:11564121
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.1 69.3#

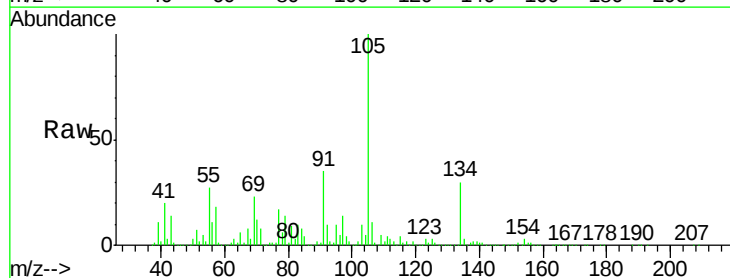


Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V

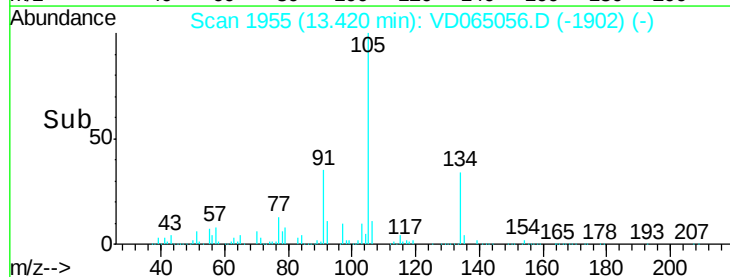
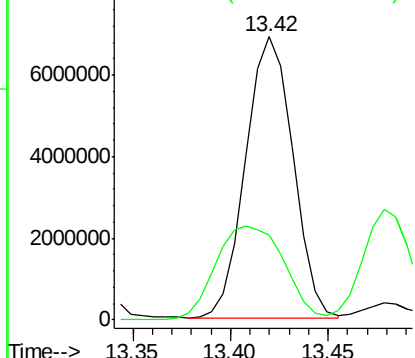


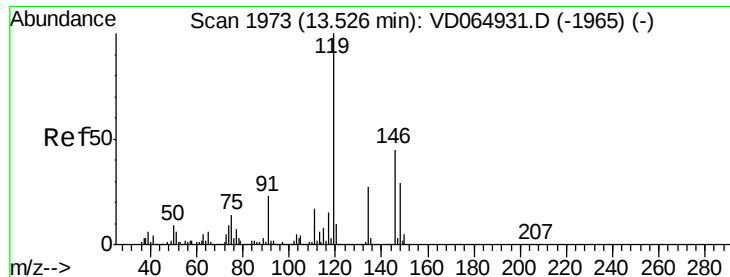
#85
 sec-Butylbenzene
 Concen: 181.137 ug/l
 RT: 13.42 min Scan# 1955
 Delta R.T. 0.01 min
 Lab File: VD065056.D
 Acq: 03 Feb 2020 16:11

Tgt Ion:105 Resp:11573598
 Ion Ratio Lower Upper
 105 100
 134 48.1 10.4 31.4#



Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 134.00 (133.70 to 134.70): V

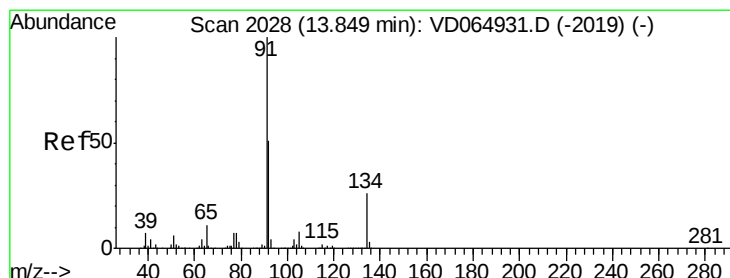
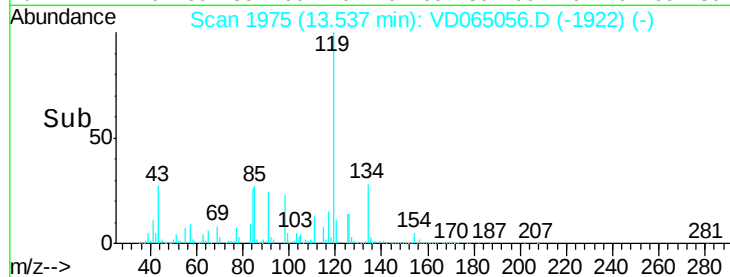
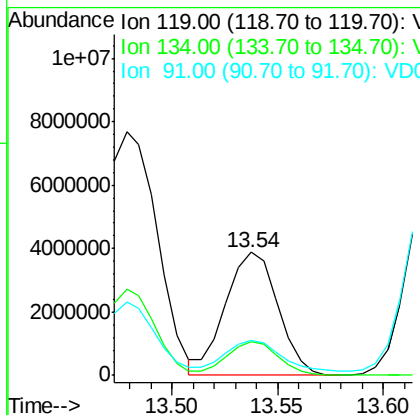
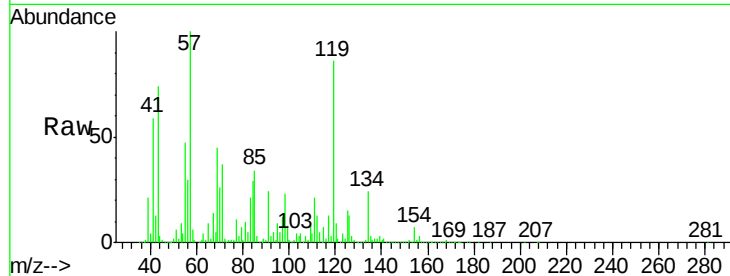




#86
p-Isopropyltoluene
Concen: 111.444 ug/l
RT: 13.54 min Scan# 1975
Delta R.T. 0.01 min
Lab File: VD065056.D
Acq: 03 Feb 2020 16:11

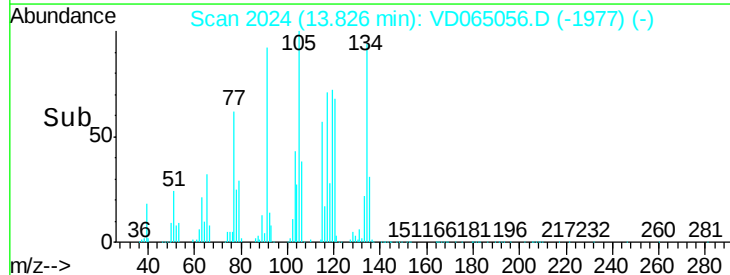
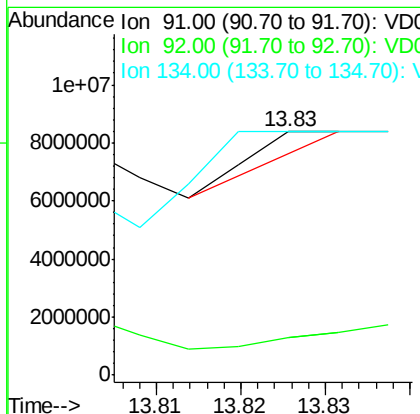
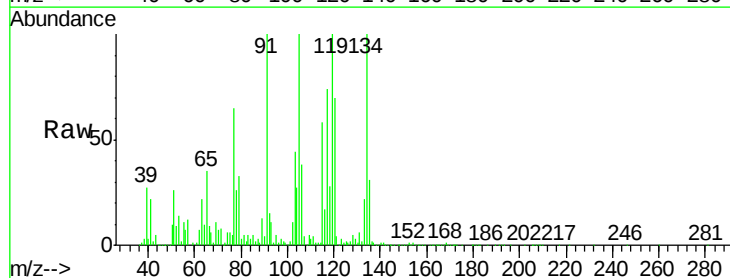
Instrument :
MSVOA_D
ClientSampleId :
PD-4-(30-32)

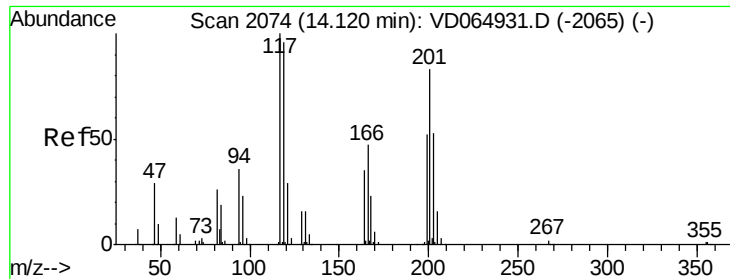
Tot Ion:119 Resp: 6663147
Ion Ratio Lower Upper
119 100
134 26.6 13.3 39.9
91 26.1 11.4 34.2



#89
n-Butylbenzene
Concen: 14.921 ug/l
RT: 13.83 min Scan# 2024
Delta R.T. -0.02 min
Lab File: VD065056.D
Acq: 03 Feb 2020 16:11

Tgt Ion: 91 Resp: 814125
Ion Ratio Lower Upper
91 100
92 0.0 26.4 79.0#
134 137.6 13.3 39.9#

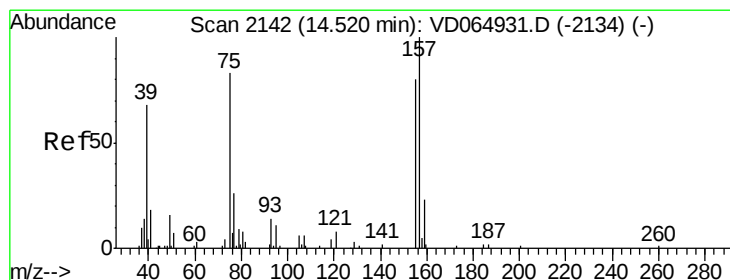
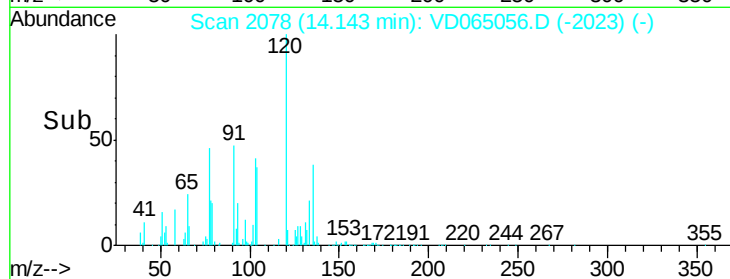
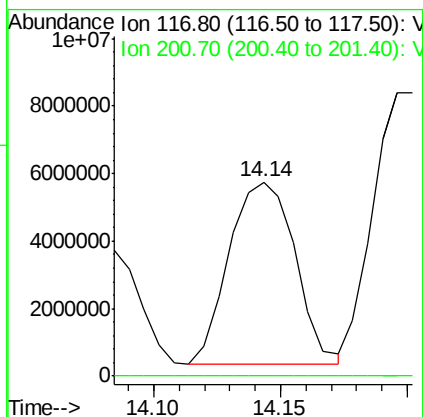
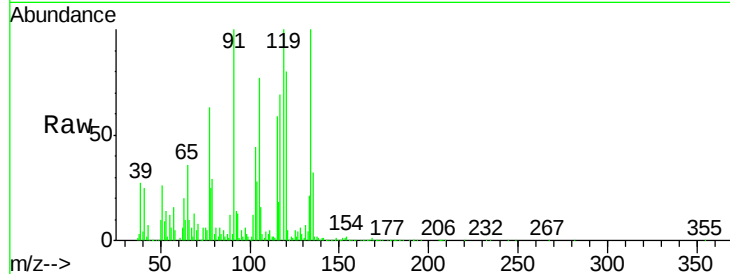




#90
Hexachloroethane
Concen: 853.689 ug/l
RT: 14.14 min Scan# 2078
Delta R.T. 0.02 min
Lab File: VD065056.D
Acq: 03 Feb 2020 16:11

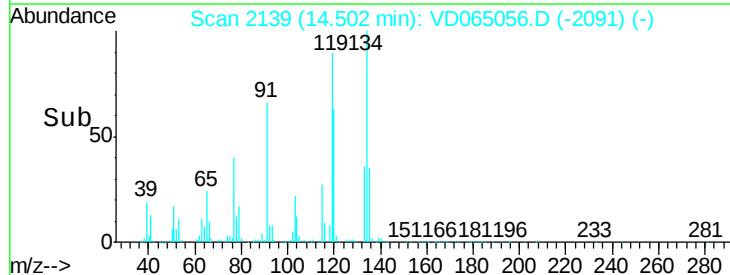
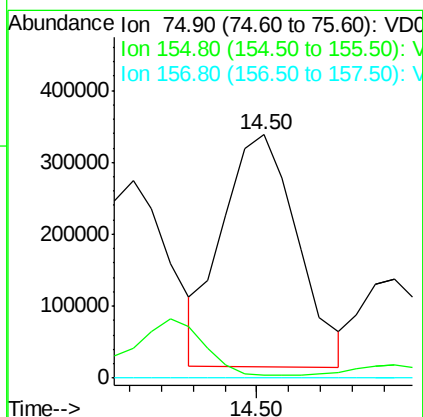
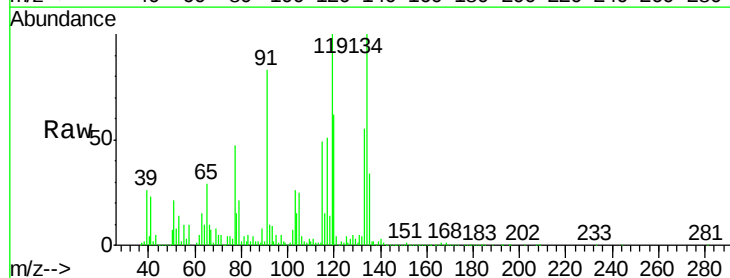
Instrument :
MSVOA_D
ClientSampleId :
PD-4-(30-32)

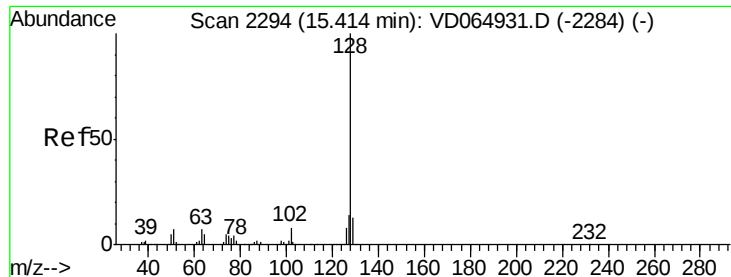
Tot Ion:117 Resp: 9843030
Ion Ratio Lower Upper
117 100
201 0.0 41.1 123.3#



#92
1,2-Dibromo-3-Chloropropane
Concen: 303.535 ug/l
RT: 14.50 min Scan# 2139
Delta R.T. -0.02 min
Lab File: VD065056.D
Acq: 03 Feb 2020 16:11

Tgt Ion: 75 Resp: 529751
Ion Ratio Lower Upper
75 100
155 0.0 44.9 134.7#
157 0.0 58.9 176.6#





#95

Naphthalene

Concen: 15.863 ug/l

RT: 15.52 min Scan# 2312

Delta R.T. 0.11 min

Lab File: VD065056.D

Acq: 03 Feb 2020 16:11

Instrument :

MSVOA_D

ClientSampleId :

PD-4-(30-32)

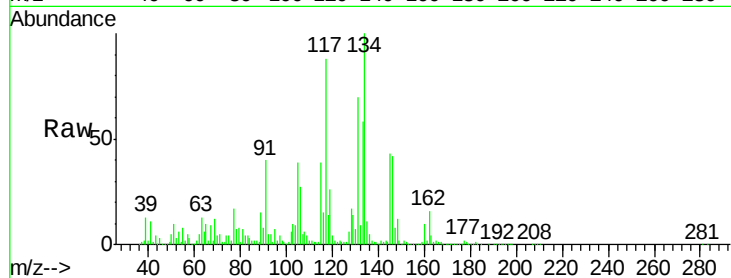
Tot Ion:128 Resp: 458030

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 83.7 9.3 13.9#



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

