

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD091720\
 Data File : VD066739.D
 Acq On : 17 Sep 2020 12:47
 Operator : VA/SY
 Sample : L3868-01
 Misc : 7.28G/5.00ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 PL-02-091520

Quant Time: Sep 18 01:14:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D091520S.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 15 16:35:37 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	0.00	168	0	0.00	ug/l	-7.98
34) 1,4-Difluorobenzene	8.86	114	170	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	209	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	13.59	152	53	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/l	
Spiked Amount						
			Recovery	=	0.00%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount						
			Recovery	=	0.00%	
50) Toluene-d8	10.33	98	113	30.43	ug/l	-0.01
Spiked Amount						
			Recovery	=	60.86%	
62) 4-Bromofluorobenzene	12.63	95	59	46.03	ug/l	0.00
Spiked Amount						
			Recovery	=	92.06%	

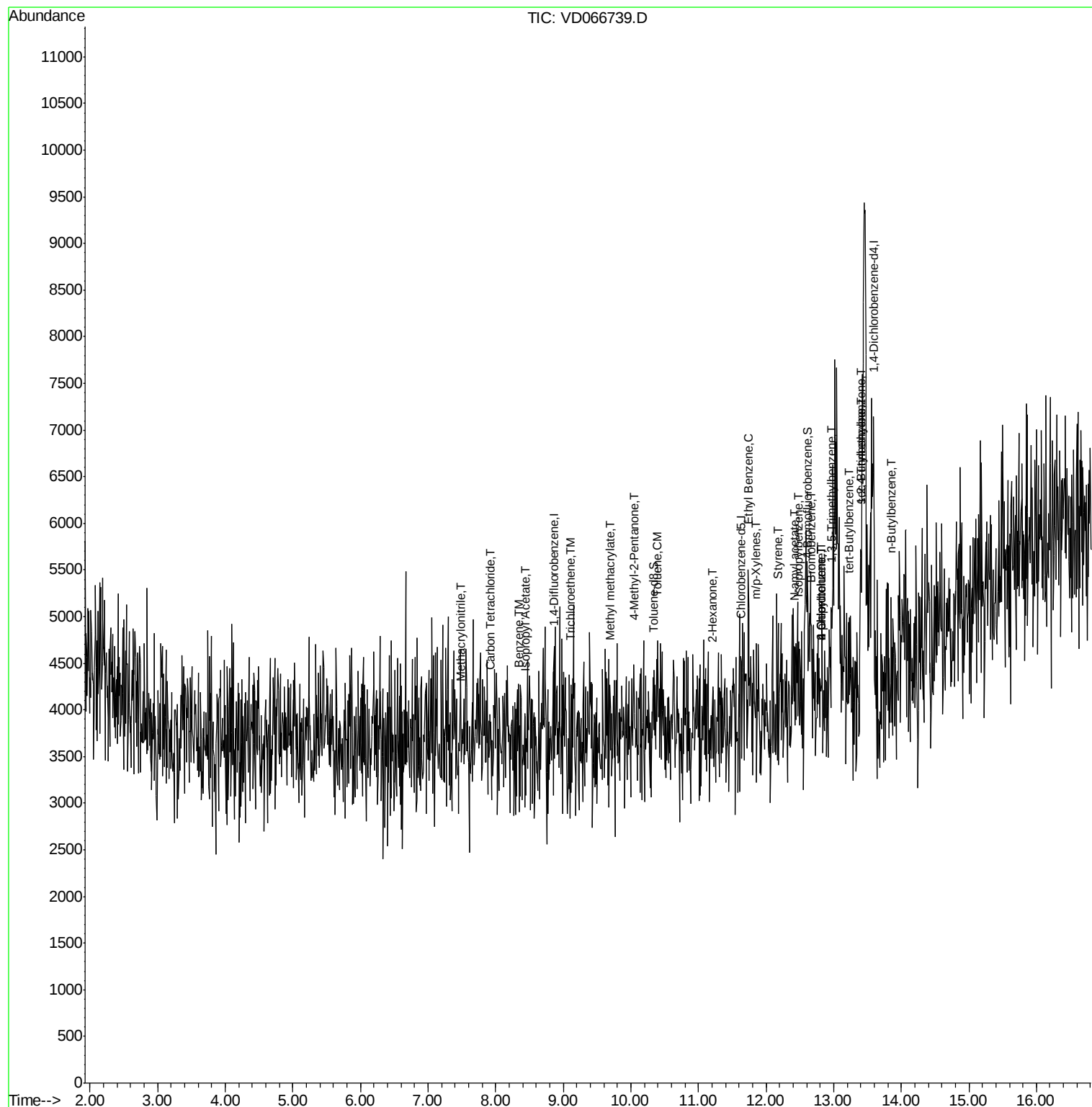
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
38) Carbon Tetrachloride	7.91	117	58	31.248	ug/l #	12
40) Benzene	8.33	78	149	31.510	ug/l #	51
41) Methacrylonitrile	7.50	41	58	165.570	ug/l #	17
43) Isopropyl Acetate	8.44	43	61	48.978	ug/l #	51
44) Trichloroethene	9.10	130	53	41.920	ug/l	1
48) Methyl methacrylate	9.68	41	54	85.241	ug/l #	16
51) 4-Methyl-2-Pentanone	10.05	43	122	190.269	ug/l #	37
52) Toluene	10.40	92	320	105.638	ug/l #	21
59) 2-Hexanone	11.21	43	78	181.046	ug/l #	26
67) Ethyl Benzene	11.74	91	384	48.993	ug/l #	43
68) m/p-Xylenes	11.85	106	68	22.955	ug/l	97
70) Styrene	12.18	104	66	14.325	ug/l #	34
73) Isopropylbenzene	12.48	105	375	94.779	ug/l #	49
74) N-amyl acetate	12.42	43	84	100.645	ug/l #	43
77) Bromobenzene	12.68	156	98	107.465	ug/l #	1
78) n-propylbenzene	12.81	91	220	45.613	ug/l #	54
79) 2-Chlorotoluene	12.81	91	220	80.668	ug/l #	42
80) 1,3,5-Trimethylbenzene	12.97	105	68	20.327	ug/l #	29
82) 4-Chlorotoluene	12.81	91	220	76.291	ug/l #	41
83) tert-Butylbenzene	13.23	119	143	51.862	ug/l #	24
84) 1,2,4-Trimethylbenzene	13.41	105	418	125.027	ug/l #	31
85) sec-Butylbenzene	13.41	105	418	105.744	ug/l	97
89) n-Butylbenzene	13.85	91	63	18.436	ug/l #	33

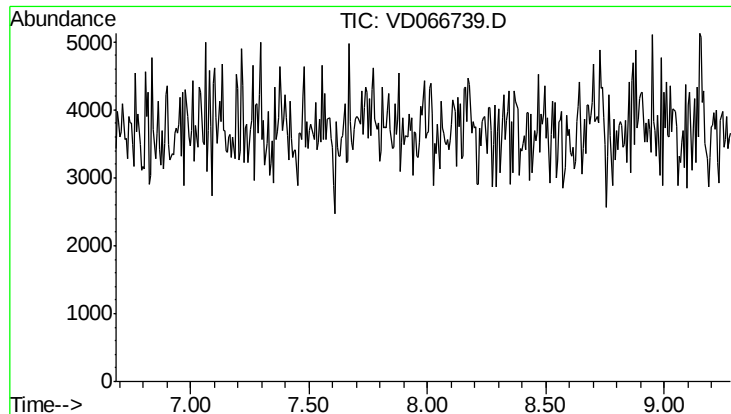
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 18 01:14:37 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D091520S.M
Quant Title : SW846 8260
QLast Update : Tue Sep 15 16:35:37 2020
Response via : Initial Calibration

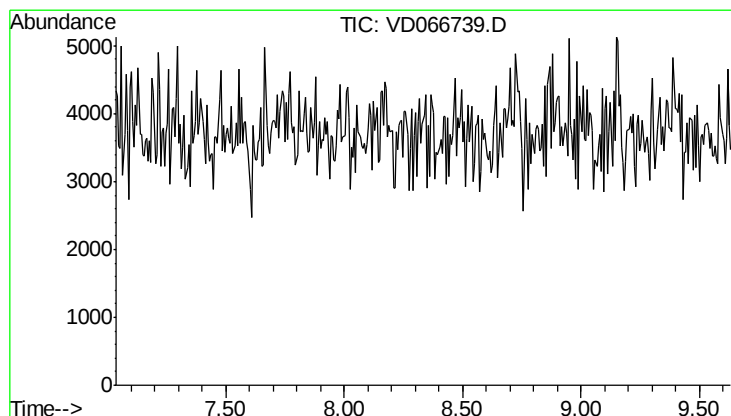
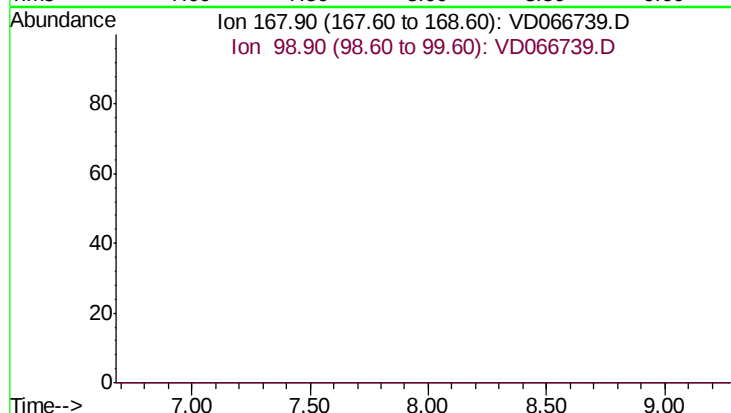




#1
 Pentafluorobenzene
 Concen: 0.000 ug/l
 Expected RT: 7.98 min
 Lab File: VD066739.D
 Acq: 17 Sep 2020 12:47

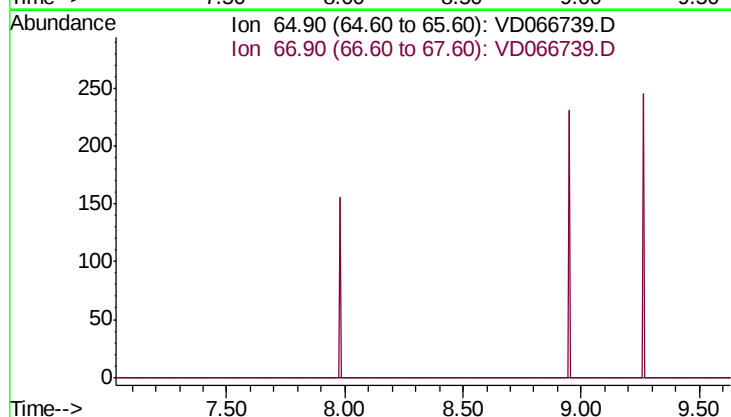
Instrument :
 MSVOA_D
 ClientSampleId :
 PL-02-091520

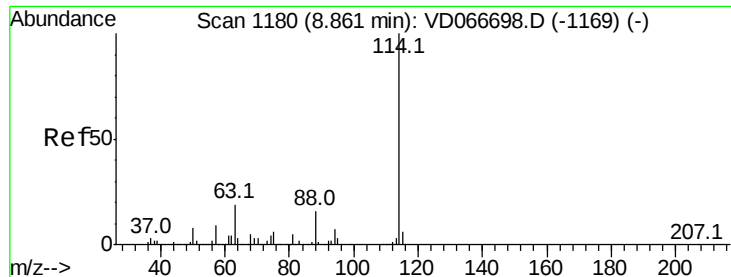
Tot Ion	168
Sig	Exp Ratio
168	100
99	68.0



#33
 1,2-Dichloroethane-d4
 Concen: 0.000 ug/l
 Expected RT: 8.33 min
 Lab File: VD066739.D
 Acq: 17 Sep 2020 12:47

Tgt Ion	65
Sig	Exp Ratio
65	100
67	51.1

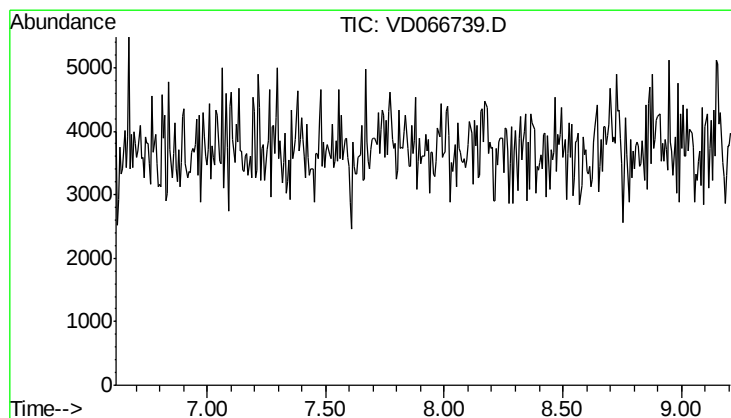
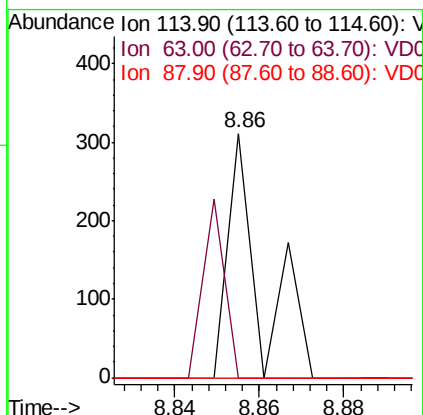
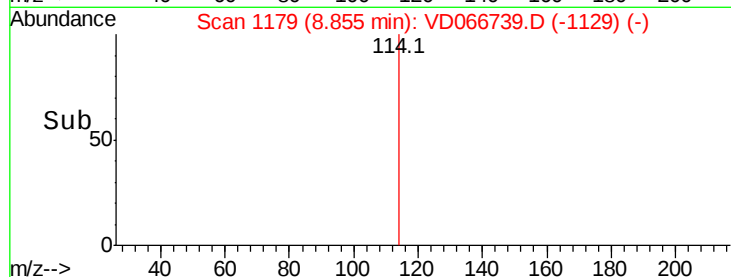
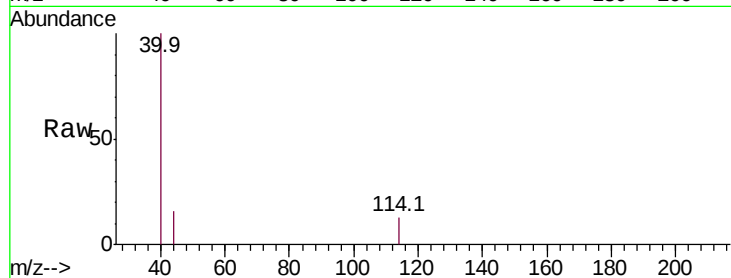




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1179
 Delta R.T. -0.01 min
 Lab File: VD066739.D
 Acq: 17 Sep 2020 12:47

Instrument :
 MSVOA_D
 ClientSampleId :
 PL-02-091520

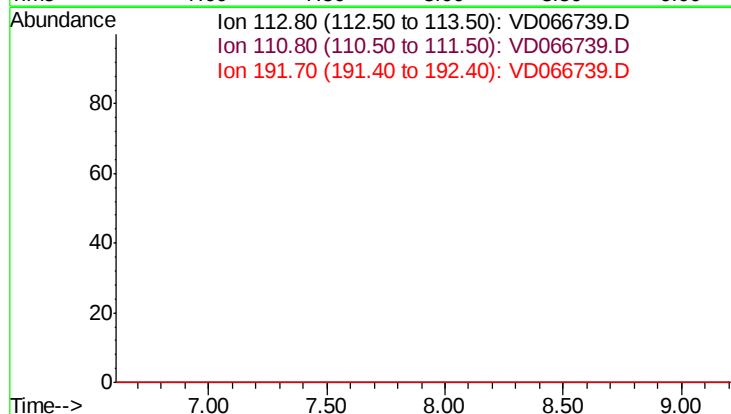
Tot Ion:114 Resp: 170
 Ion Ratio Lower Upper
 114 100
 63 0.0 0.0 37.6
 88 0.0 0.0 32.2

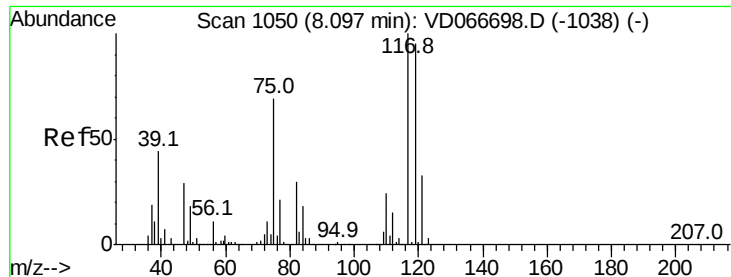


#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 7.91 min

Lab File: VD066739.D
 Acq: 17 Sep 2020 12:47

Tgt Ion: 113
 Sig Exp Ratio
 113 100
 111 104.0
 192 18.5





#38

Carbon Tetrachloride

Concen: 31.248 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. -0.18 min

Lab File: VD066739.D

Acq: 17 Sep 2020 12:47

Instrument :

MSVOA_D

ClientSampleId :

PL-02-091520

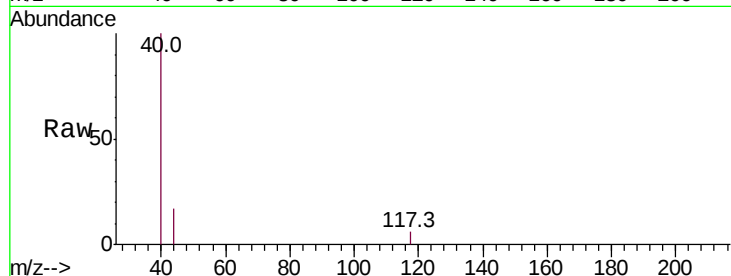
Tot Ion:117 Resp: 58

Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.6#

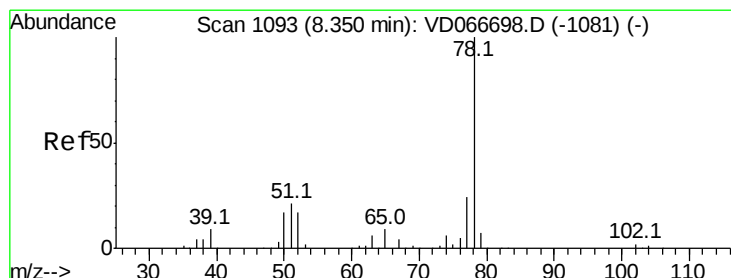
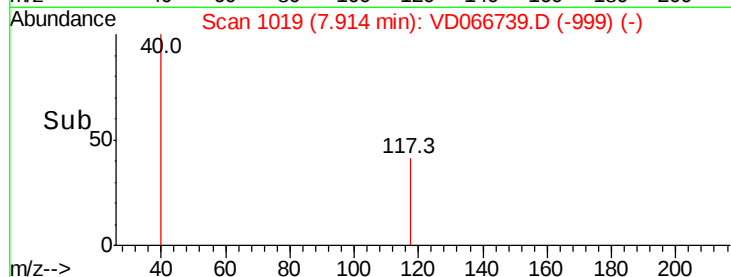
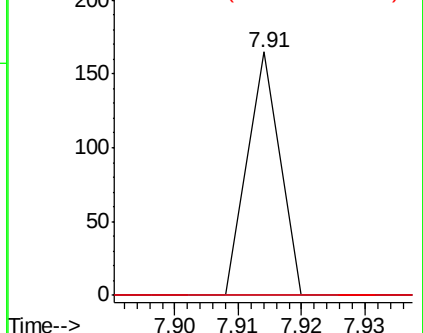
121 0.0 26.2 39.4#



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



#40

Benzene

Concen: 31.510 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.02 min

Lab File: VD066739.D

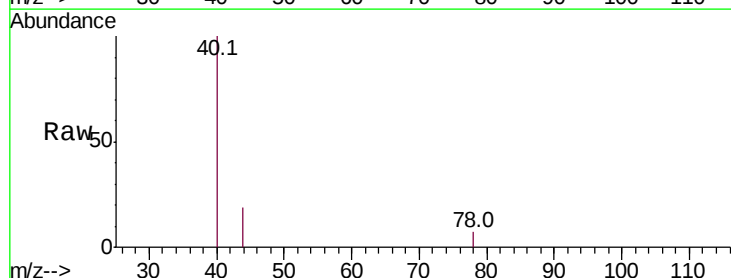
Acq: 17 Sep 2020 12:47

Tgt Ion: 78 Resp: 149

Ion Ratio Lower Upper

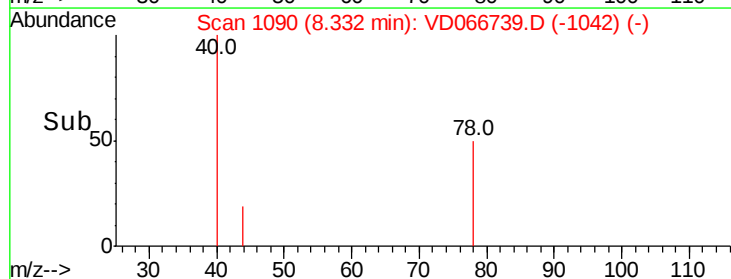
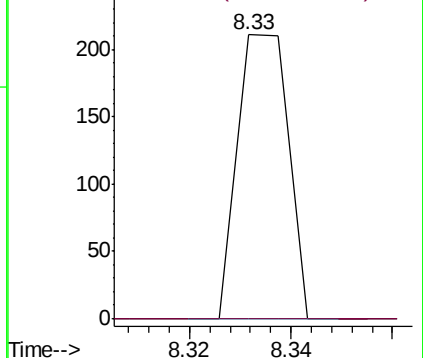
78 100

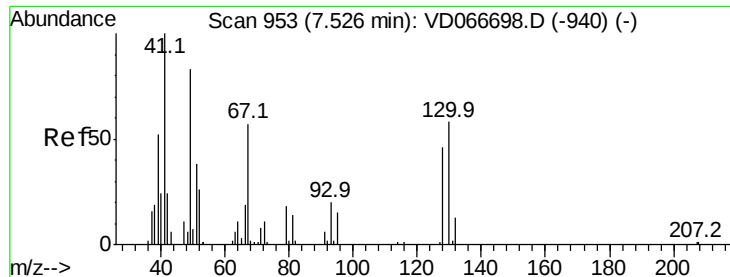
77 0.0 19.3 28.9#



Abundance Ion 78.00 (77.70 to 78.70): V

Ion 77.00 (76.70 to 77.70): V

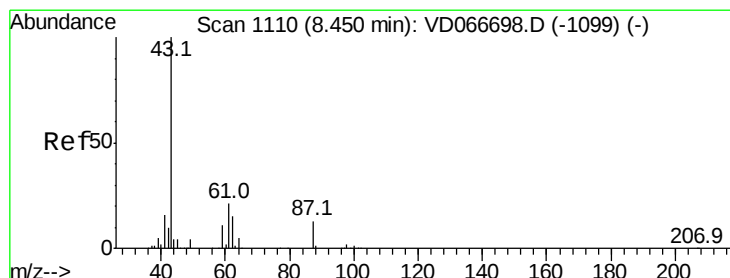
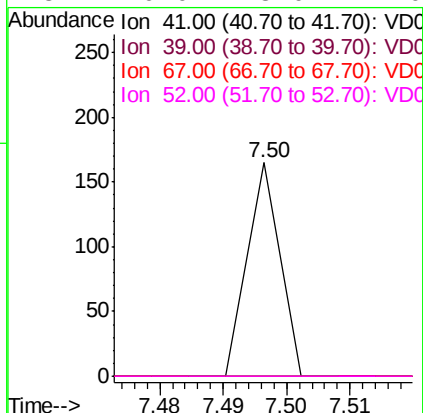
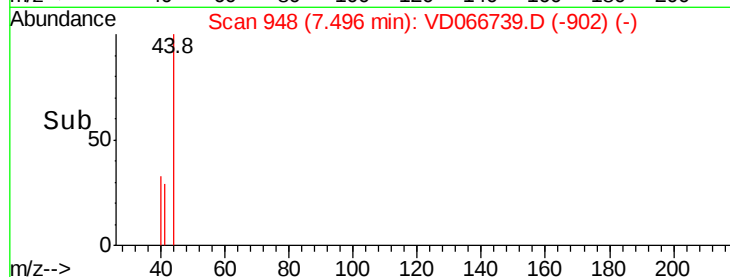
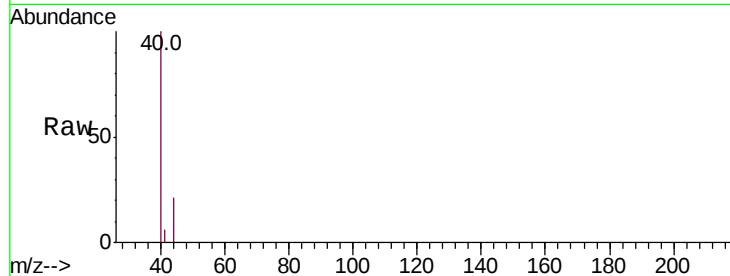




#41
Methacrylonitrile
Concen: 165.570 ug/l
RT: 7.50 min Scan# 948
Delta R.T. -0.03 min
Lab File: VD066739.D
Acq: 17 Sep 2020 12:47

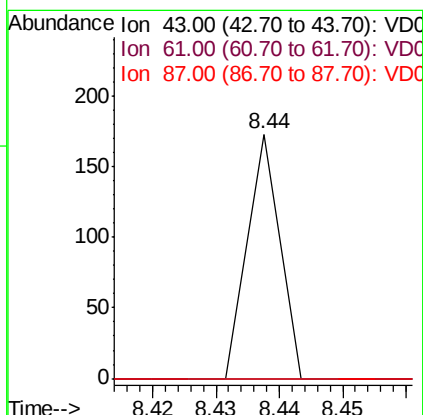
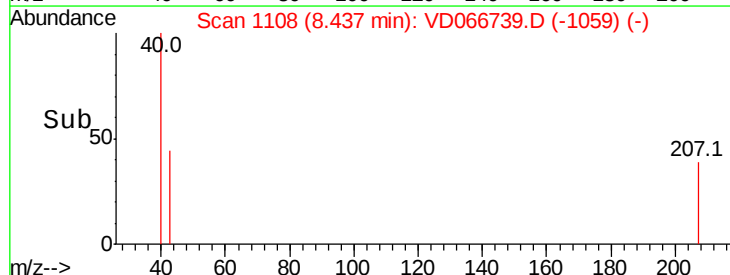
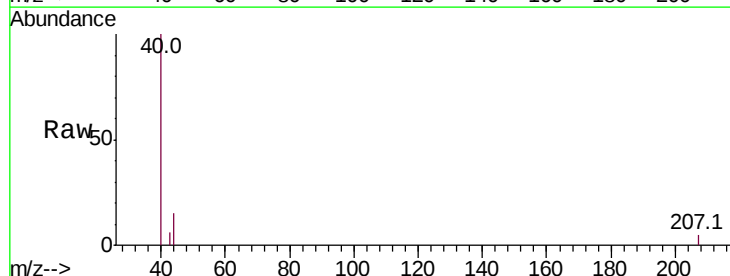
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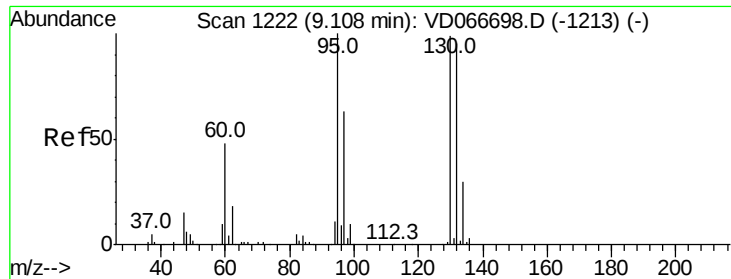
Tot Ion	Ratio	Lower	Upper
41	100		
39	0.0	59.3	88.9#
67	0.0	62.3	93.5#
52	0.0	28.0	42.0#



#43
Isopropyl Acetate
Concen: 48.978 ug/l
RT: 8.44 min Scan# 1108
Delta R.T. -0.01 min
Lab File: VD066739.D
Acq: 17 Sep 2020 12:47

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	24.8	37.2#
87	0.0	10.4	15.6#





#44

Trichloroethene

Concen: 41.920 ug/l

RT: 9.10 min Scan# 1221

Delta R.T. -0.01 min

Lab File: VD066739.D

Acq: 17 Sep 2020 12:47

Instrument :

MSVOA_D

ClientSampleId :

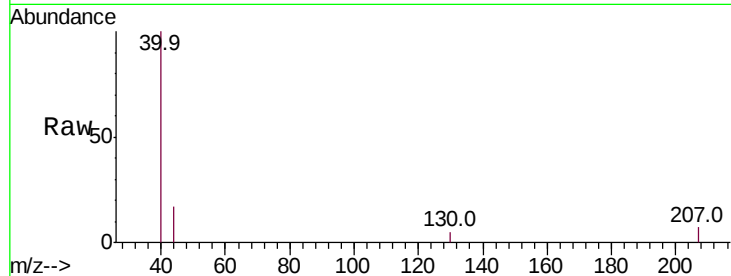
PL-02-091520

Tot Ion:130 Resp: 53

Ion Ratio Lower Upper

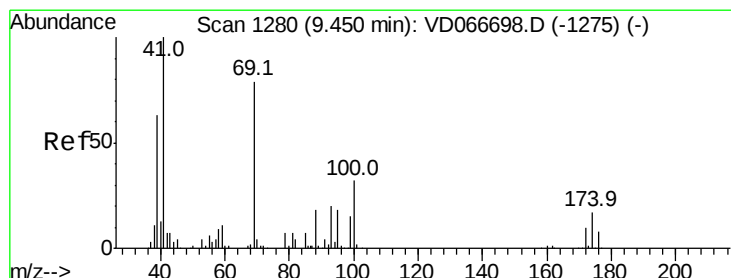
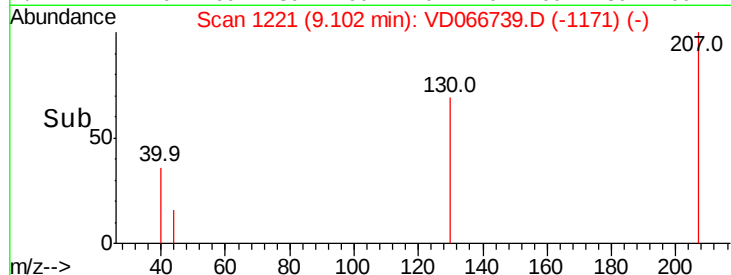
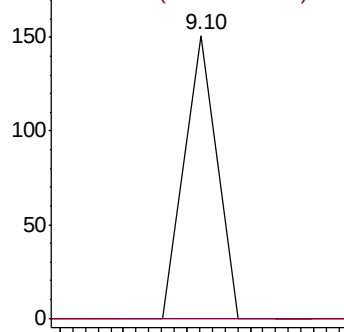
130 100

95 0.0 0.0 201.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC



#48

Methyl methacrylate

Concen: 85.241 ug/l

RT: 9.68 min Scan# 1320

Delta R.T. 0.23 min

Lab File: VD066739.D

Acq: 17 Sep 2020 12:47

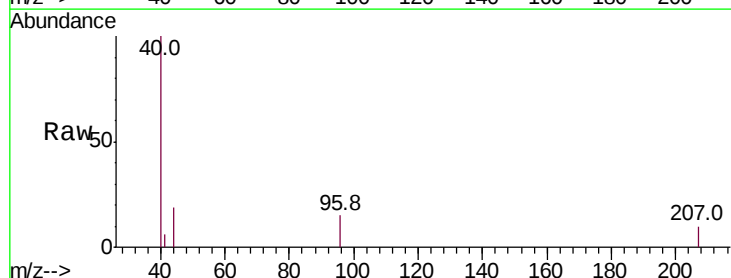
Tgt Ion: 41 Resp: 54

Ion Ratio Lower Upper

41 100

69 0.0 62.4 93.6#

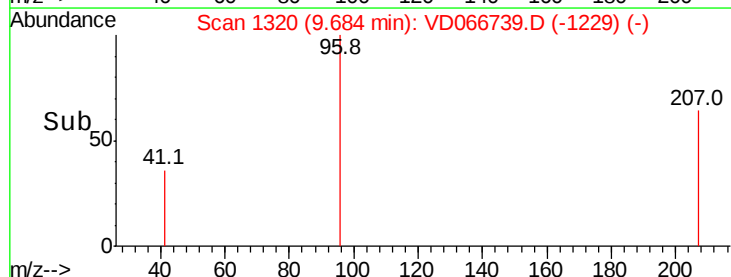
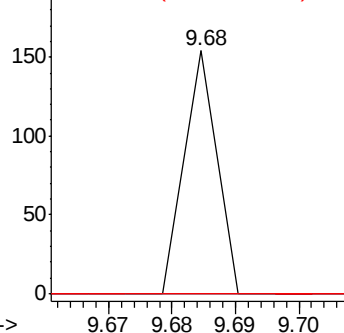
39 0.0 44.8 67.2#

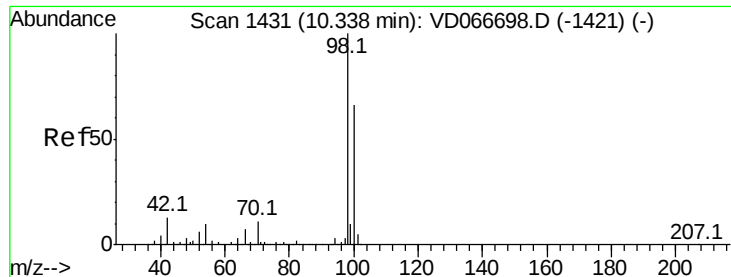


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

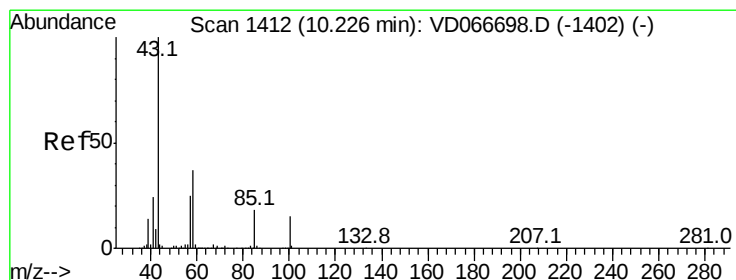
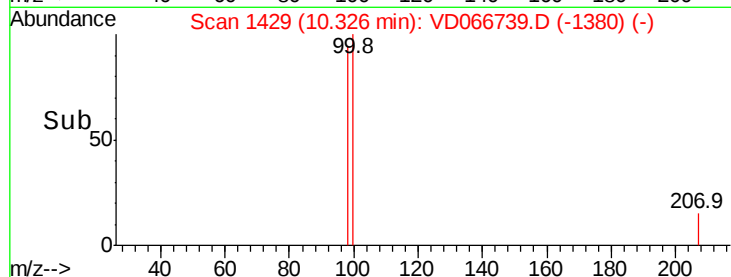
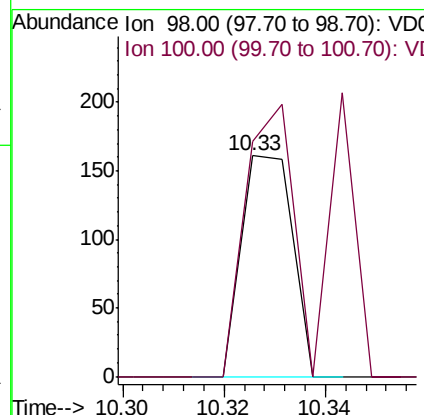
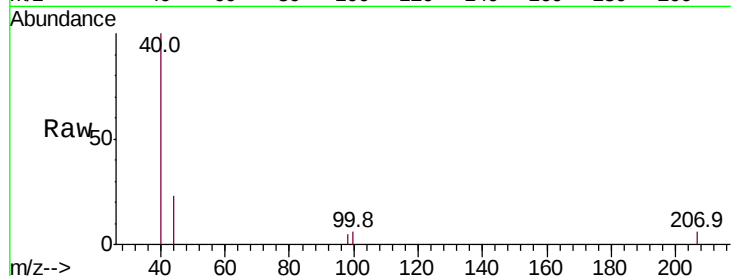




#50
Toluene-d8
Concen: 30.431 ug/l
RT: 10.33 min Scan# 1429
Delta R.T. -0.01 min
Lab File: VD066739.D
Acq: 17 Sep 2020 12:47

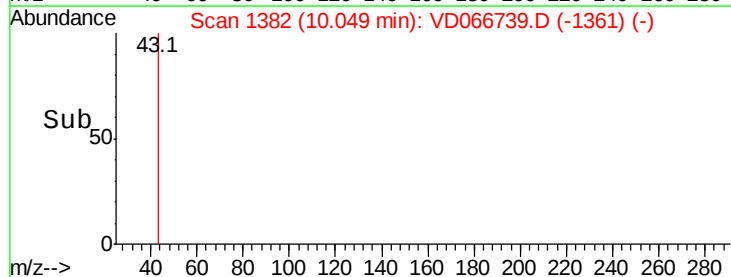
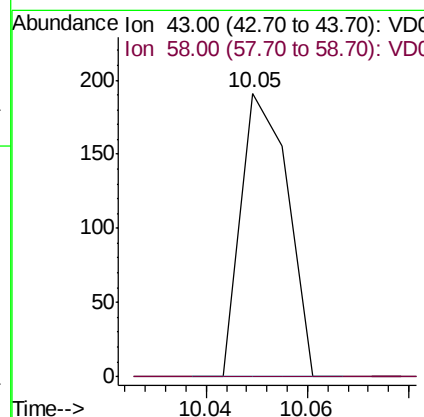
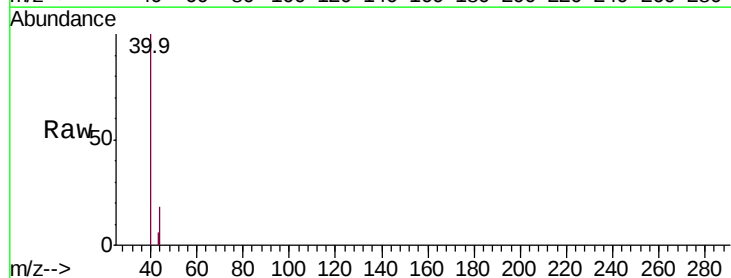
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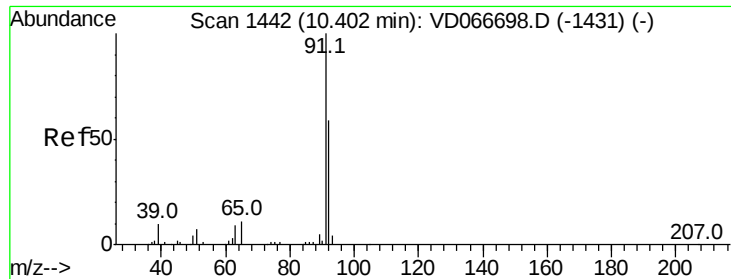
Tot Ion: 98 Resp: 113
Ion Ratio Lower Upper
98 100
100 180.5 52.7 79.1#



#51
4-Methyl-2-Pentanone
Concen: 190.269 ug/l
RT: 10.05 min Scan# 1382
Delta R.T. -0.18 min
Lab File: VD066739.D
Acq: 17 Sep 2020 12:47

Tgt Ion: 43 Resp: 122
Ion Ratio Lower Upper
43 100
58 0.0 30.4 45.6#





#52

Toluene

Concen: 105.638 ug/l

RT: 10.40 min Scan# 1441

Delta R.T. -0.01 min

Lab File: VD066739.D

Acq: 17 Sep 2020 12:47

Instrument :

MSVOA_D

ClientSampleId :

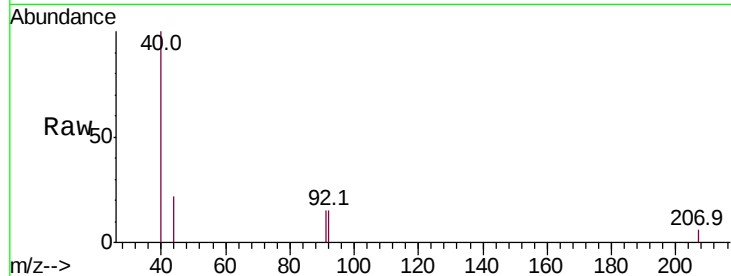
PL-02-091520

Tot Ion: 92 Resp: 320

Ion Ratio Lower Upper

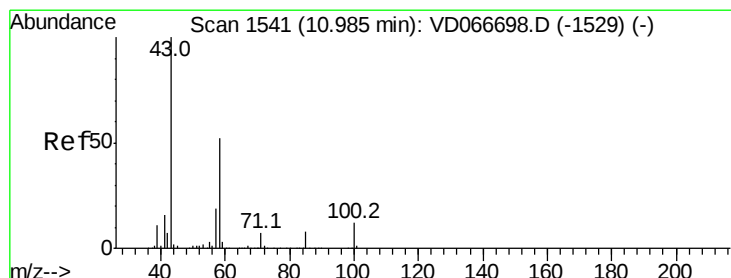
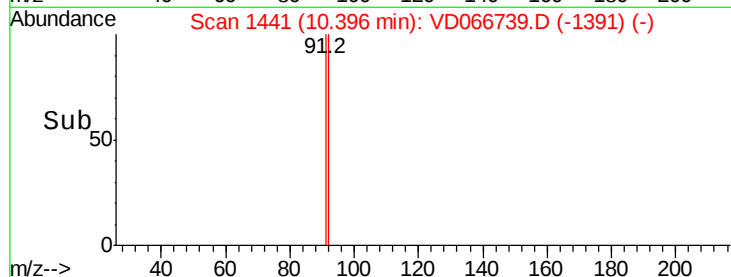
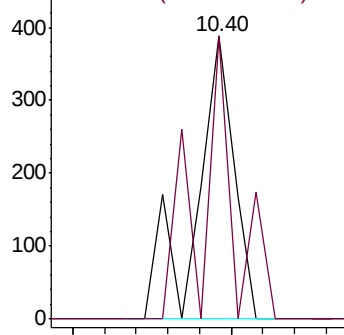
92 100

91 61.9 135.8 203.8#



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#59

2-Hexanone

Concen: 181.046 ug/l

RT: 11.21 min Scan# 1579

Delta R.T. 0.22 min

Lab File: VD066739.D

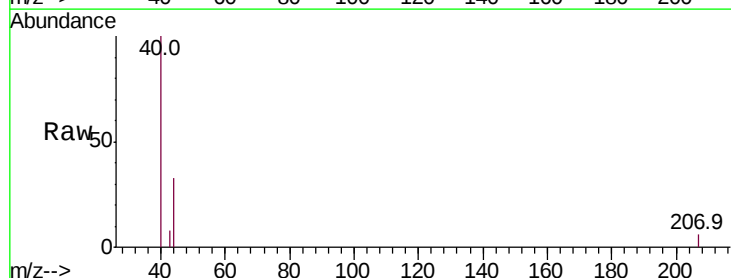
Acq: 17 Sep 2020 12:47

Tgt Ion: 43 Resp: 78

Ion Ratio Lower Upper

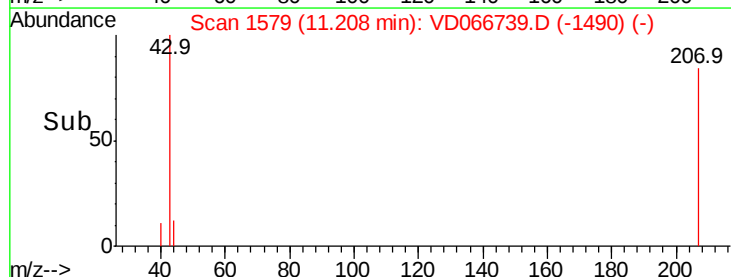
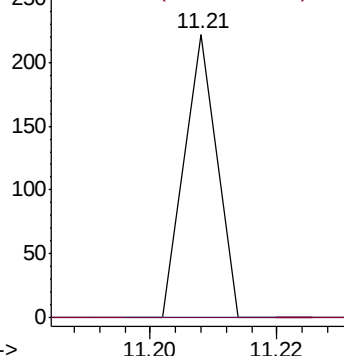
43 100

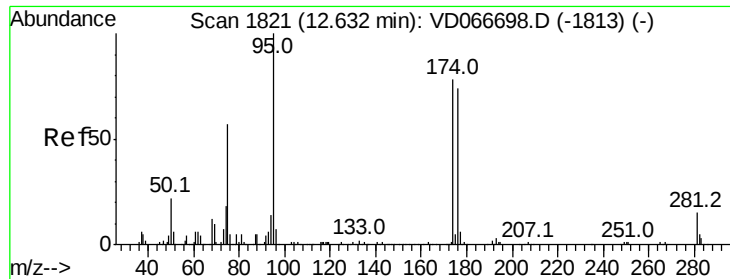
58 0.0 26.2 78.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

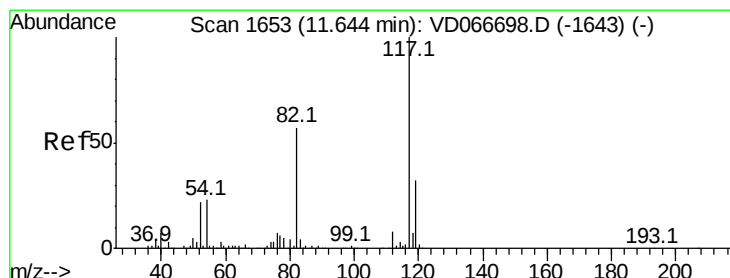
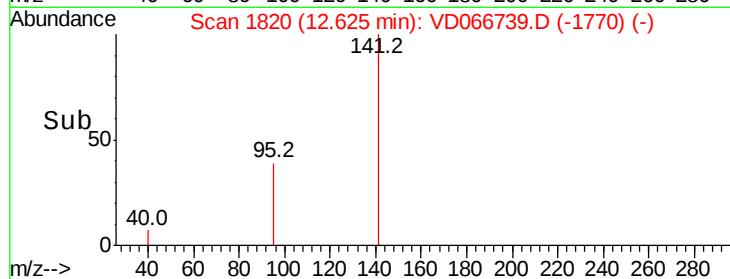
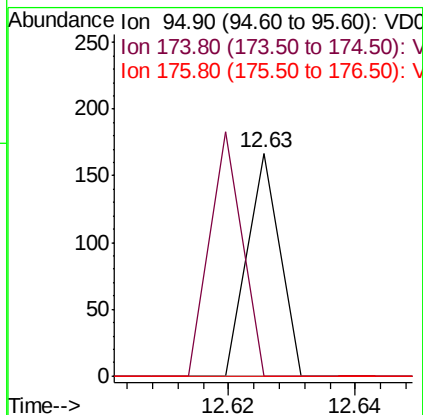
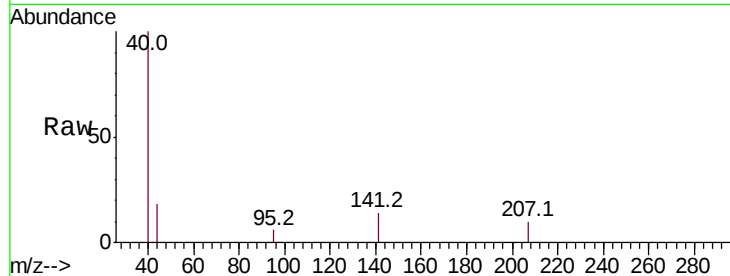




#62
4-Bromofluorobenzene
Concen: 46.029 ug/l
RT: 12.63 min Scan# 1820
Delta R.T. -0.01 min
Lab File: VD066739.D
Acq: 17 Sep 2020 12:47

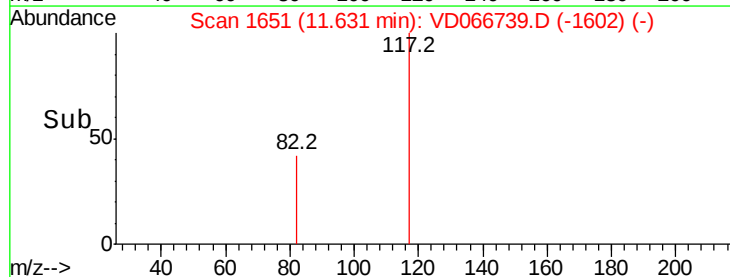
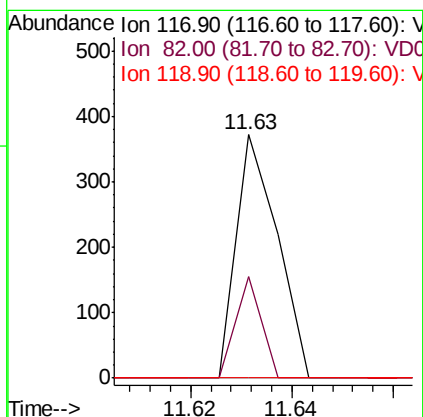
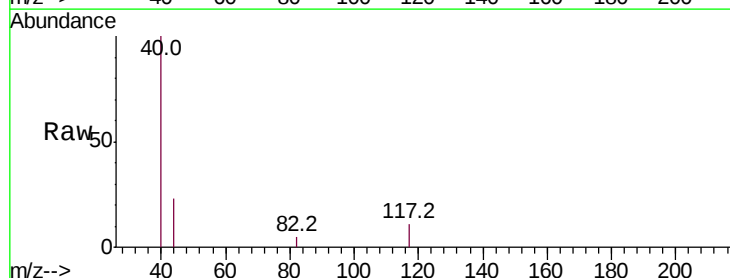
Instrument :
MSVOA_D
ClientSampleId :
PL-02-091520

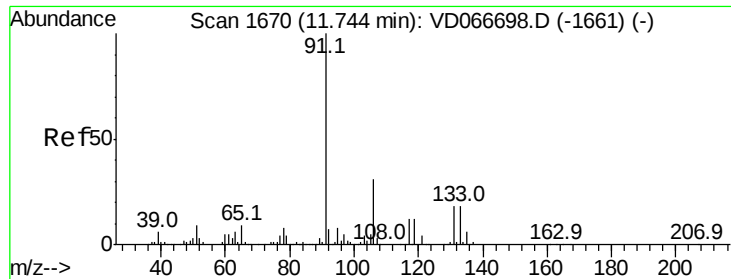
Tot Ion	Ratio	Lower	Upper
95	100		
174	110.2	0.0	156.6
176	0.0	0.0	150.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1651
Delta R.T. -0.01 min
Lab File: VD066739.D
Acq: 17 Sep 2020 12:47

Tgt Ion	Ratio	Lower	Upper
117	100		
82	41.7	45.4	68.0#
119	0.0	25.8	38.6#





#67

Ethyl Benzene

Concen: 48.993 ug/l

RT: 11.74 min Scan# 1669

Delta R.T. -0.01 min

Lab File: VD066739.D

Acq: 17 Sep 2020 12:47

Instrument :

MSVOA_D

ClientSampleId :

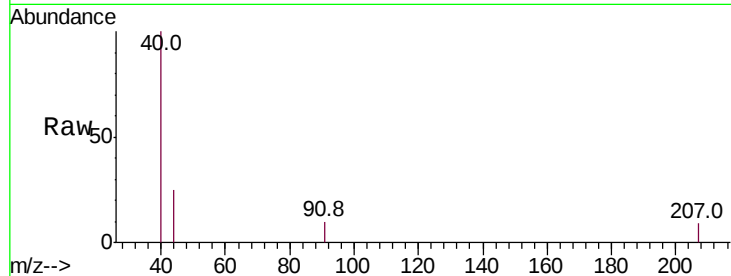
PL-02-091520

Tot Ion: 91 Resp: 384

Ion Ratio Lower Upper

91 100

106 0.0 25.1 37.7#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V

11.74

400

300

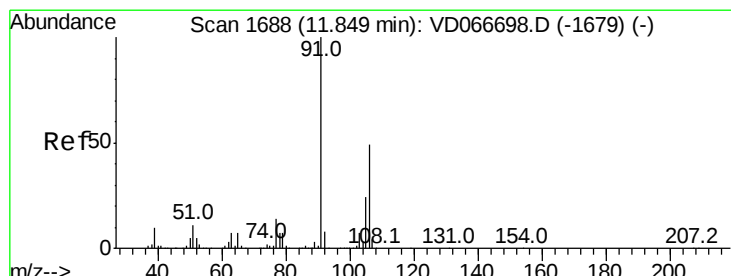
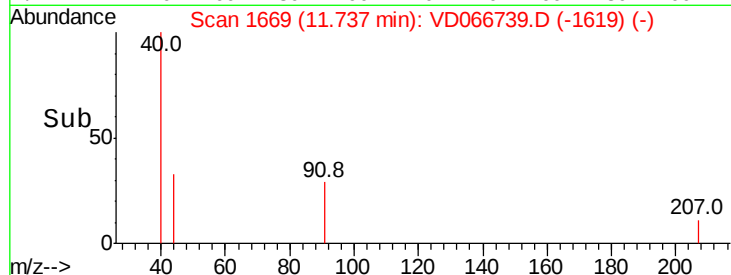
200

100

0

11.70 11.72 11.74 11.76

Time-->



#68

m/p-Xylenes

Concen: 22.955 ug/l

RT: 11.85 min Scan# 1688

Delta R.T. -0.00 min

Lab File: VD066739.D

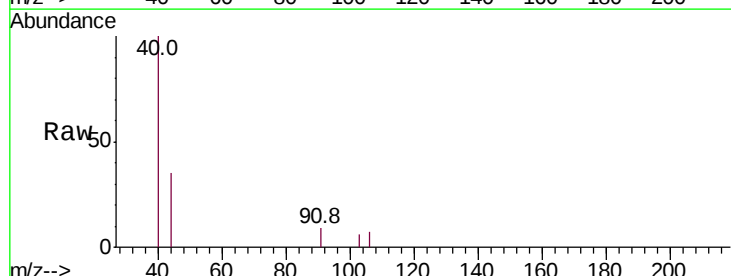
Acq: 17 Sep 2020 12:47

Tgt Ion: 106 Resp: 68

Ion Ratio Lower Upper

106 100

91 201.5 164.8 247.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): V

11.85

250

200

150

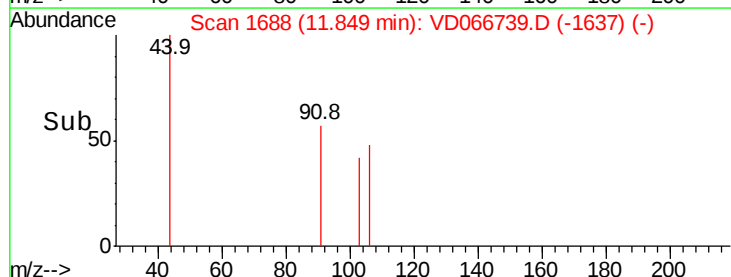
100

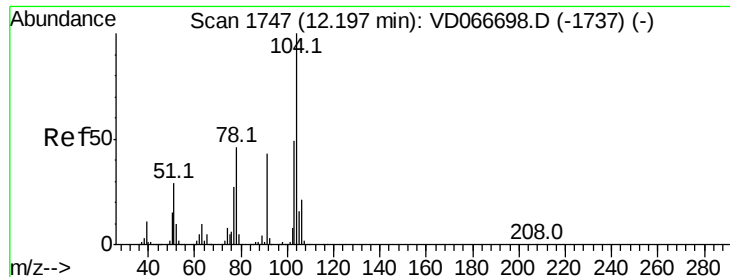
50

0

11.84 11.86

Time-->





#70

Stvrene

Concen: 14.325 ug/l

RT: 12.18 min Scan# 1744

Delta R.T. -0.02 min

Lab File: VD066739.D

Acq: 17 Sep 2020 12:47

Instrument :

MSVOA_D

ClientSampleId :

PL-02-091520

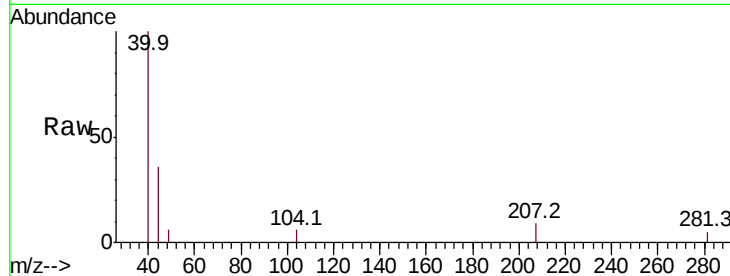
Tot Ion:104 Resp: 66

Ion Ratio Lower Upper

104 100

78 89.4 40.2 60.4#

103 0.0 42.5 63.7#



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

12.18

12.16

12.18

12.16

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12.18

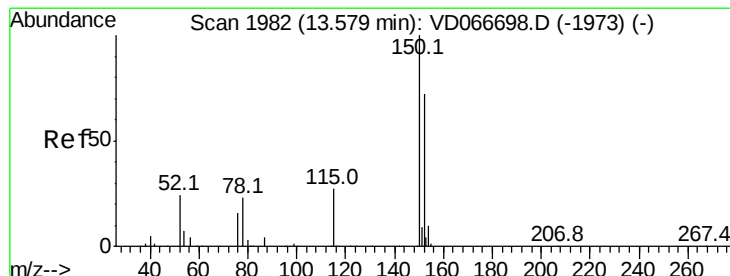
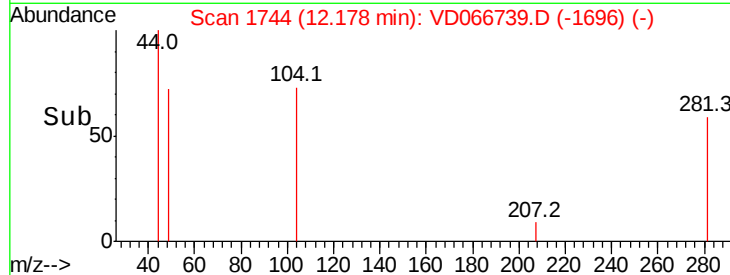
12.16

12.18

12.16

12.18

12.16



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.59 min Scan# 1984

Delta R.T. 0.01 min

Lab File: VD066739.D

Acq: 17 Sep 2020 12:47

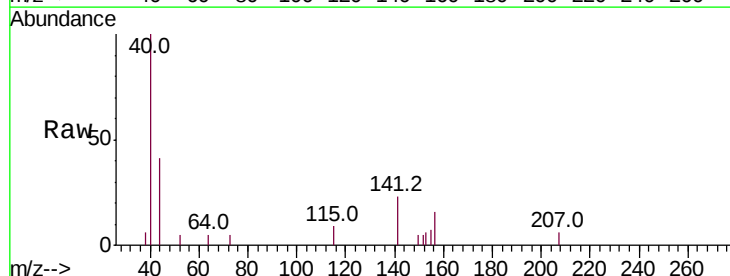
Tgt Ion:152 Resp: 53

Ion Ratio Lower Upper

152 100

115 0.0 30.5 91.5#

150 264.2 0.0 344.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

13.59

13.58

13.59

13.58

13.59

13.58

13.59

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13.59

13.58

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13.58

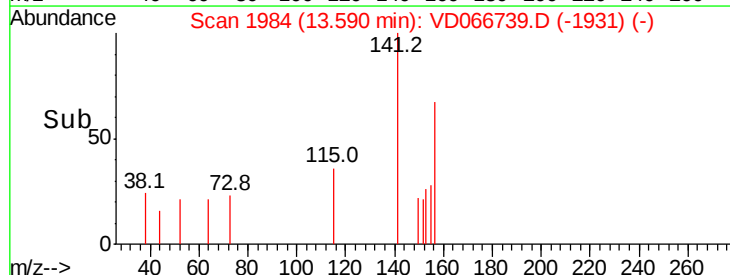
13.59

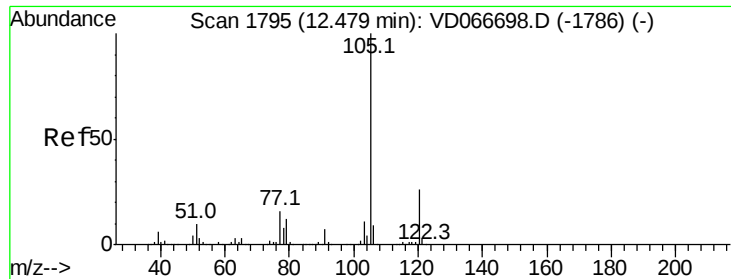
13.58

13.59

13.58

13.59





#73

Isopropylbenzene

Concen: 94.779 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.01 min

Lab File: VD066739.D

Acq: 17 Sep 2020 12:47

Instrument :

MSVOA_D

ClientSampleId :

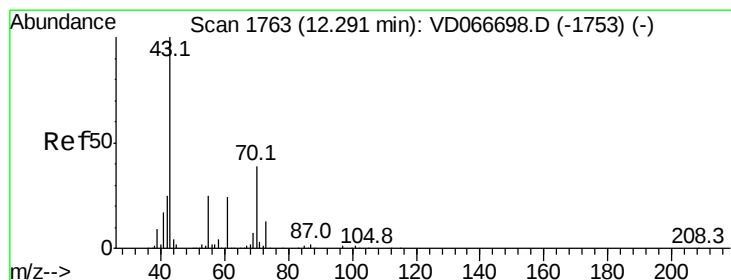
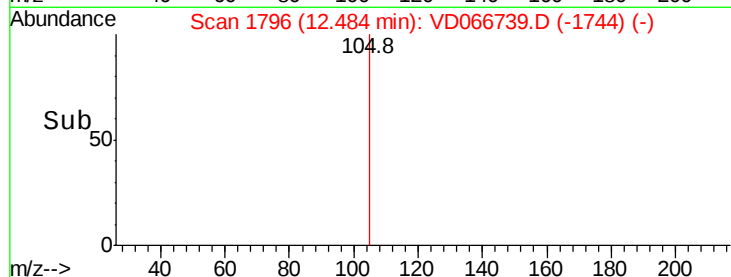
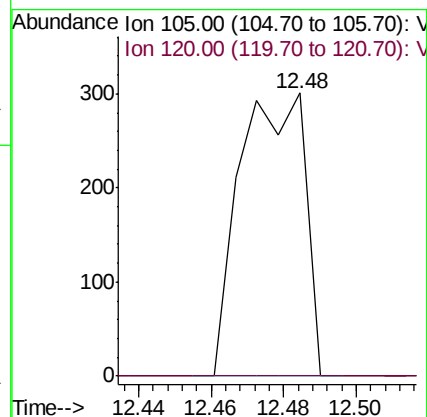
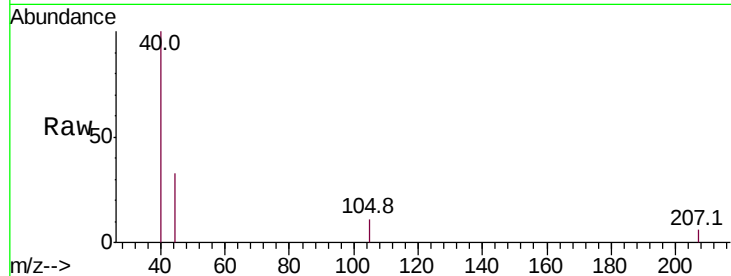
PL-02-091520

Tot Ion:105 Resp: 375

Ion Ratio Lower Upper

105 100

120 0.0 13.1 39.1#



#74

N-ethyl acetate

Concen: 100.645 ug/l

RT: 12.42 min Scan# 1785

Delta R.T. 0.13 min

Lab File: VD066739.D

Acq: 17 Sep 2020 12:47

Tgt Ion: 43 Resp: 84

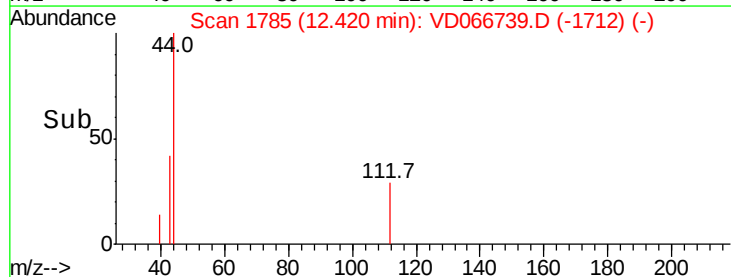
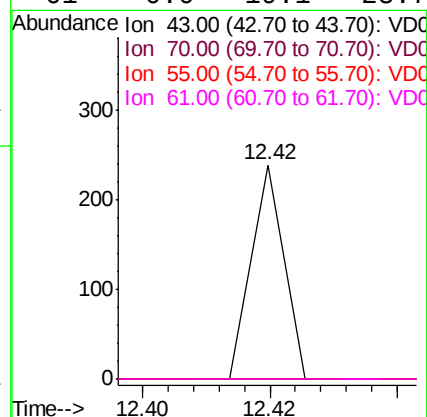
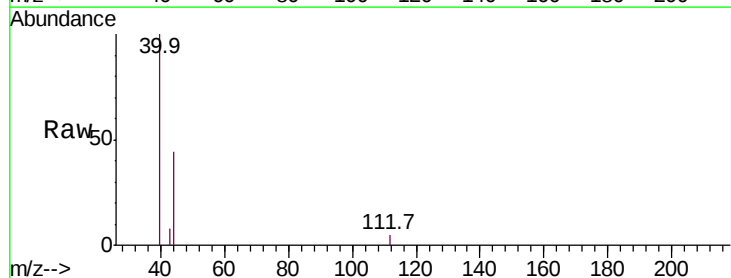
Ion Ratio Lower Upper

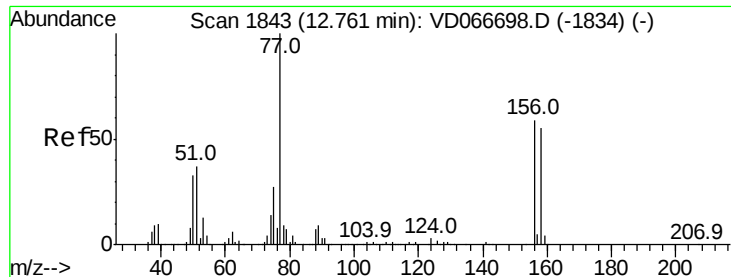
43 100

70 0.0 33.0 49.4#

55 0.0 20.6 30.8#

61 0.0 19.1 28.7#





#77

Bromobenzene

Concen: 107.465 ug/l

RT: 12.68 min Scan# 1829

Delta R.T. -0.08 min

Lab File: VD066739.D

Acq: 17 Sep 2020 12:47

Instrument :

MSVOA_D

ClientSampleId :

PL-02-091520

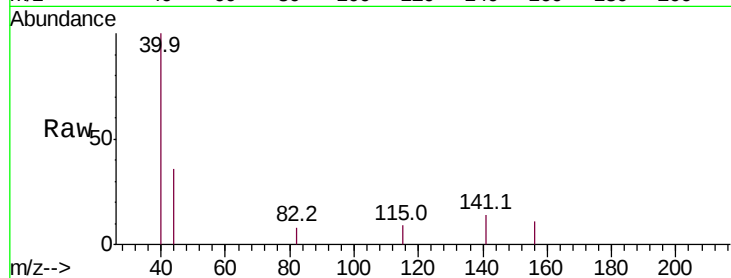
Tot Ion:156 Resp: 98

Ion Ratio Lower Upper

156 100

77 0.0 95.8 287.3#

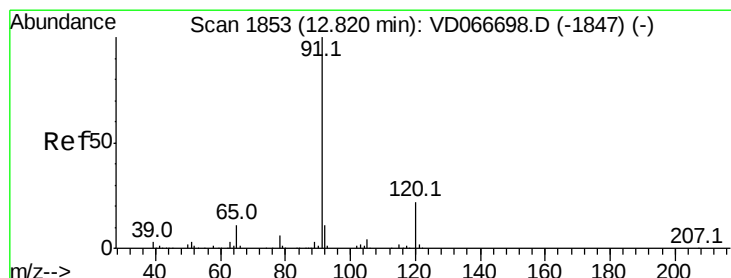
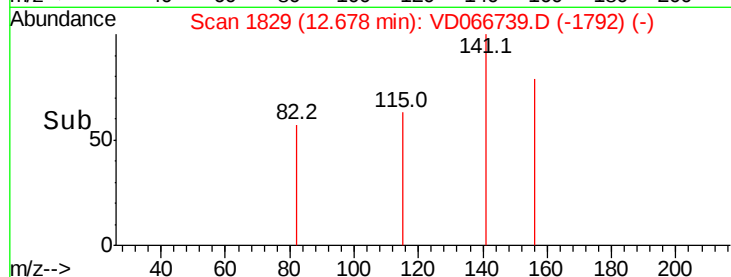
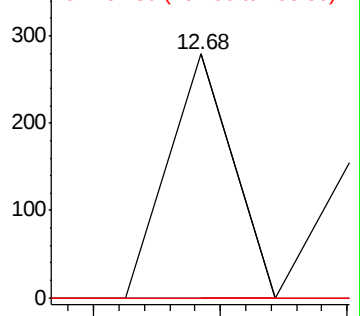
158 0.0 48.4 145.0#



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: 45.613 ug/l

RT: 12.81 min Scan# 1852

Delta R.T. -0.01 min

Lab File: VD066739.D

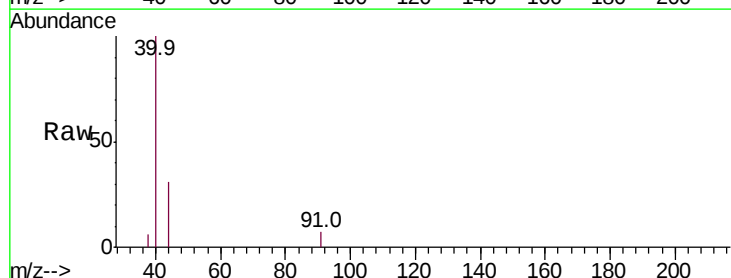
Acq: 17 Sep 2020 12:47

Tgt Ion: 91 Resp: 220

Ion Ratio Lower Upper

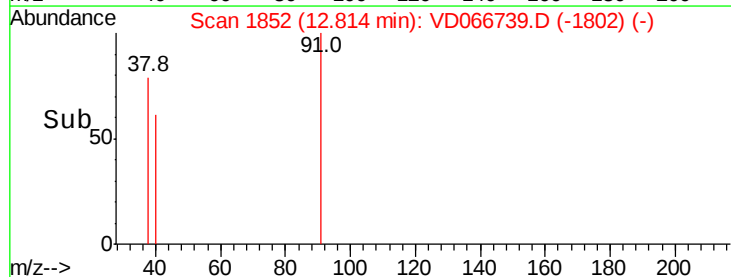
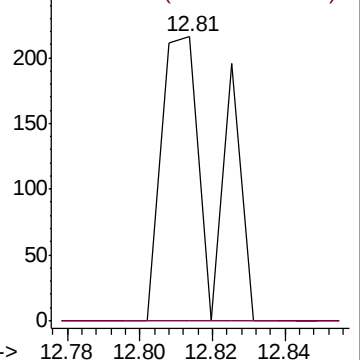
91 100

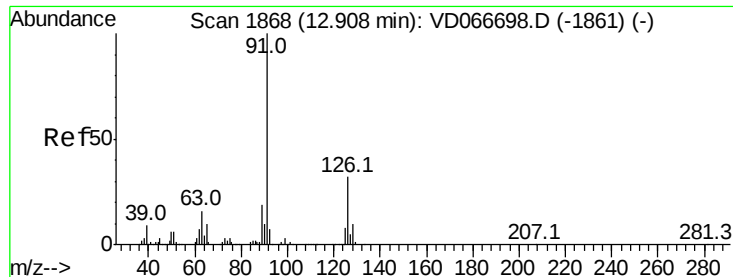
120 0.0 10.9 32.9#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V

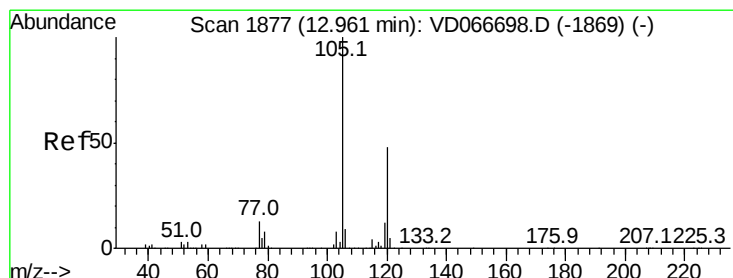
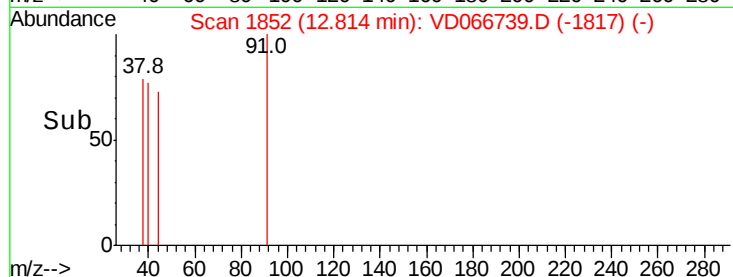
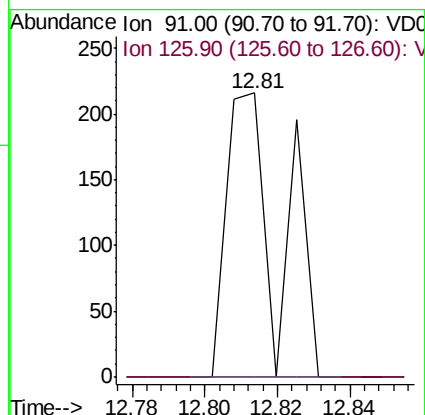
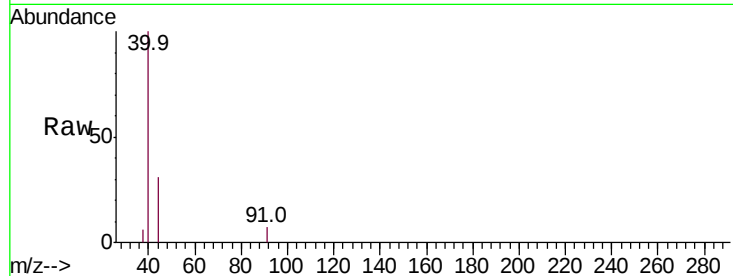




#79
 2-Chlorotoluene
 Concen: 80.668 ug/l
 RT: 12.81 min Scan# 1852
 Delta R.T. -0.09 min
 Lab File: VD066739.D
 Acq: 17 Sep 2020 12:47

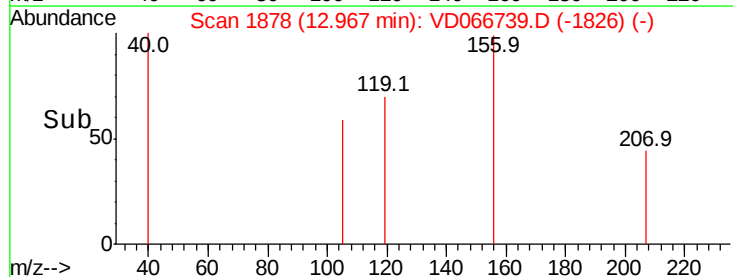
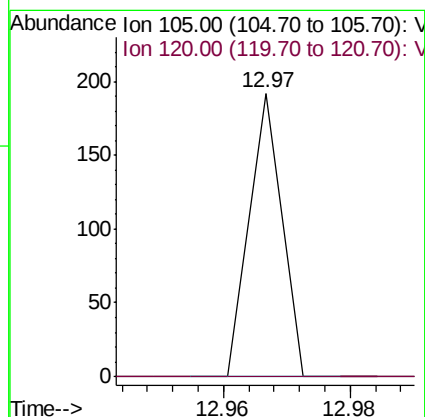
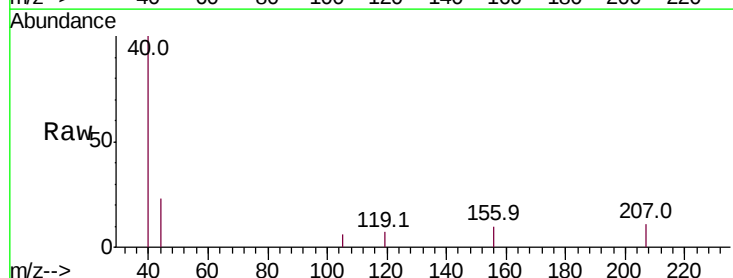
Instrument :
 MSVOA_D
 ClientSampleId :
 PL-02-091520

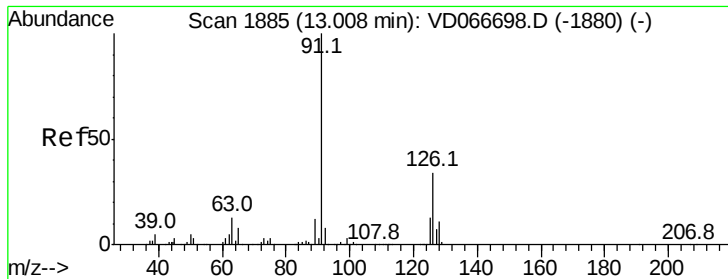
Tot Ion: 91 Resp: 220
 Ion Ratio Lower Upper
 91 100
 126 0.0 16.2 48.6#



#80
 1,3,5-Trimethylbenzene
 Concen: 20.327 ug/l
 RT: 12.97 min Scan# 1878
 Delta R.T. 0.01 min
 Lab File: VD066739.D
 Acq: 17 Sep 2020 12:47

Tgt Ion: 105 Resp: 68
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.9 71.7#





#82

4-Chlorotoluene

Concen: 76.291 ug/l

RT: 12.81 min Scan# 1852

Delta R.T. -0.19 min

Lab File: VD066739.D

Acq: 17 Sep 2020 12:47

Instrument :

MSVOA_D

ClientSampleId :

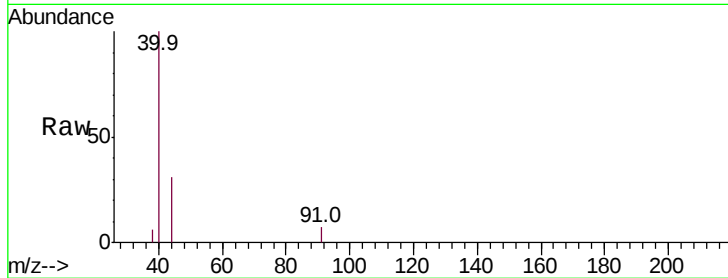
PL-02-091520

Tot Ion: 91 Resp: 220

Ion Ratio Lower Upper

91 100

126 0.0 16.8 50.4#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.90 (125.60 to 126.60): V

250

200

150

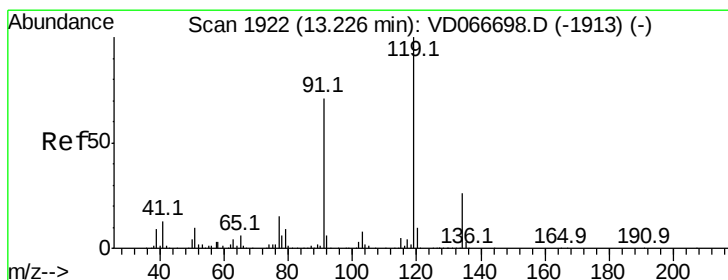
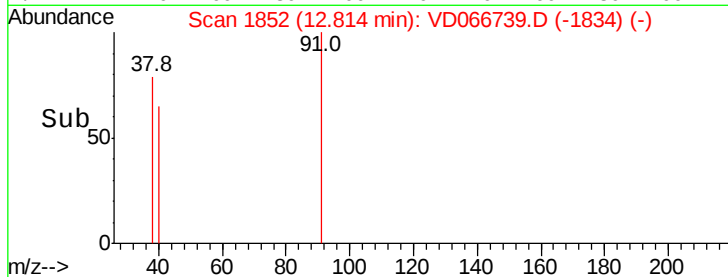
100

50

0

12.78 12.80 12.82 12.84

Time-->



#83

tert-Butylbenzene

Concen: 51.862 ug/l

RT: 13.23 min Scan# 1923

Delta R.T. 0.01 min

Lab File: VD066739.D

Acq: 17 Sep 2020 12:47

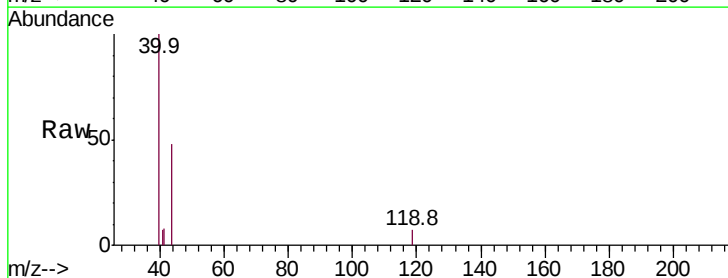
Tgt Ion: 119 Resp: 143

Ion Ratio Lower Upper

119 100

91 0.0 35.0 105.1#

134 0.0 13.6 40.8#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V

300

250

200

150

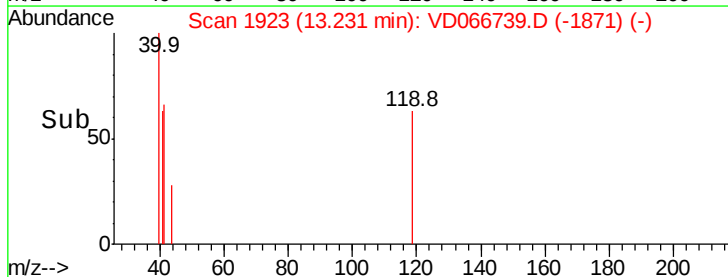
100

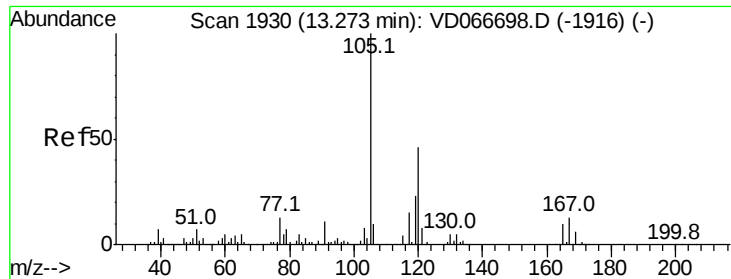
50

0

13.20 13.22 13.24

Time-->

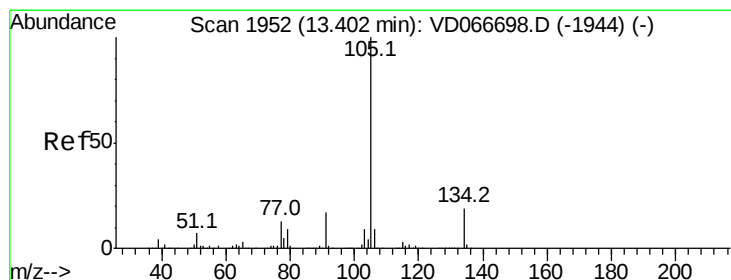
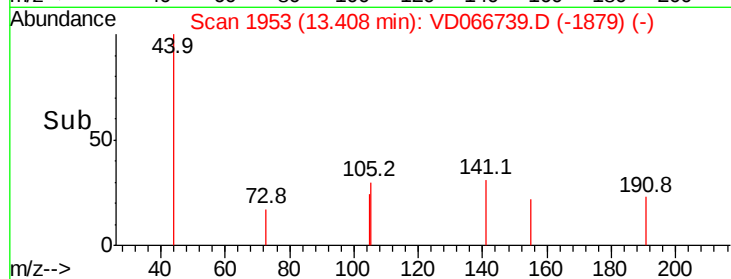
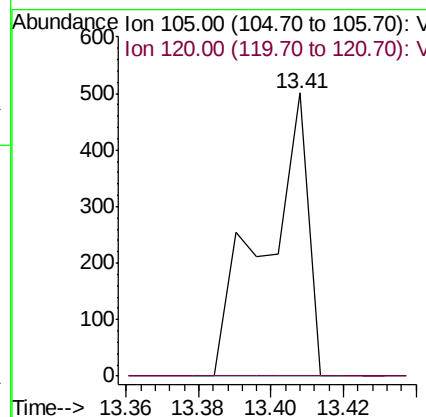
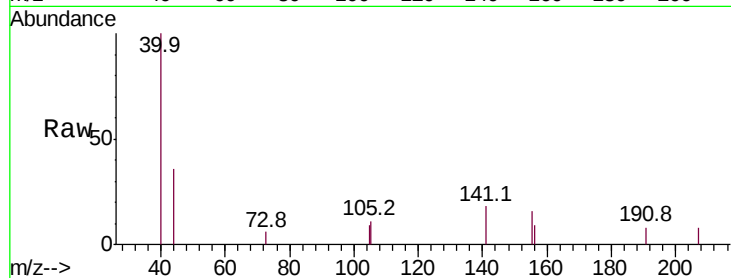




#84
1,2,4-Trimethylbenzene
Concen: 125.027 ug/l
RT: 13.41 min Scan# 1953
Delta R.T. 0.13 min
Lab File: VD066739.D
Acq: 17 Sep 2020 12:47

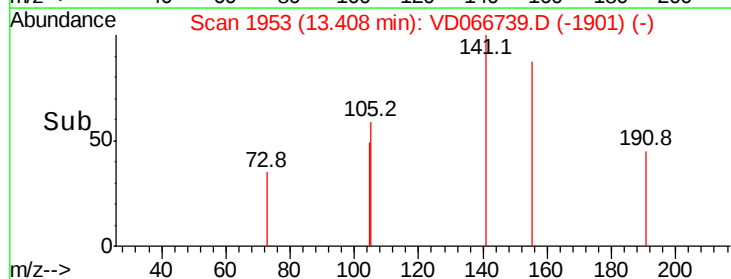
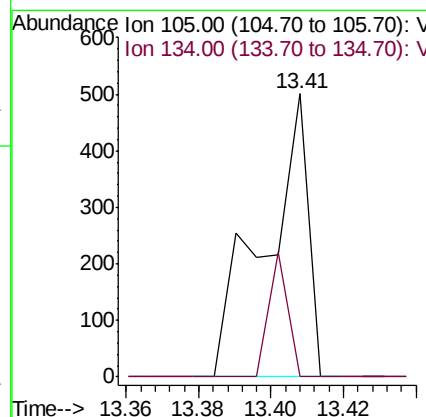
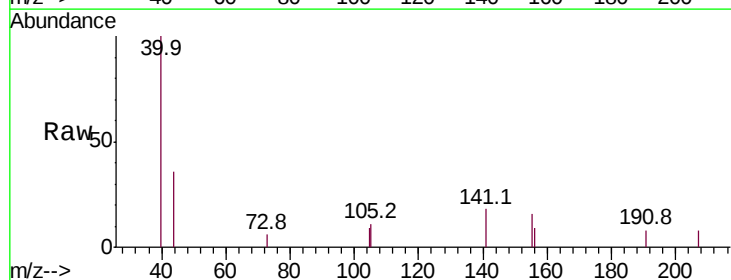
Instrument :
MSVOA_D
ClientSampleId :
PL-02-091520

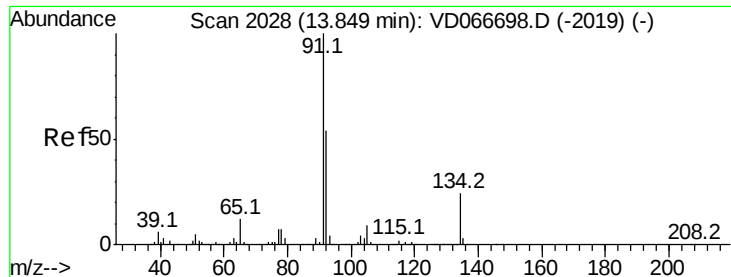
Tot Ion:105 Resp: 418
Ion Ratio Lower Upper
105 100
120 0.0 22.4 67.2#



#85
sec-Butylbenzene
Concen: 105.744 ug/l
RT: 13.41 min Scan# 1953
Delta R.T. 0.01 min
Lab File: VD066739.D
Acq: 17 Sep 2020 12:47

Tgt Ion:105 Resp: 418
Ion Ratio Lower Upper
105 100
134 18.7 10.0 30.0





#89

n-Butylbenzene

Concen: 18.436 ug/l

RT: 13.85 min Scan# 2029

Delta R.T. 0.01 min

Lab File: VD066739.D

Acq: 17 Sep 2020 12:47

Instrument :

MSVOA_D

ClientSampleId :

PL-02-091520

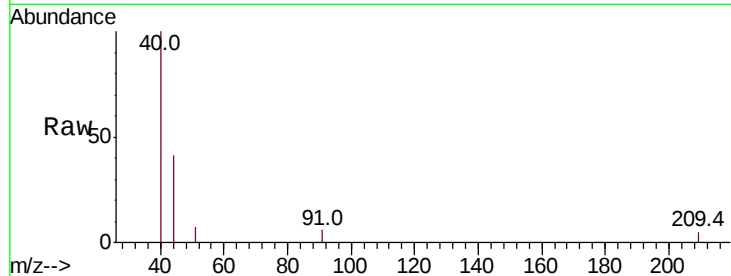
Tot Ion: 91 Resp: 63

Ion Ratio Lower Upper

91 100

92 0.0 27.0 81.0#

134 0.0 12.4 37.0#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.00 (133.70 to 134.70): VDC

