

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092820\
 Data File : VD066912.D
 Acq On : 28 Sep 2020 14:42
 Operator : VA/SY
 Sample : L4170-02
 Misc : 4.46G/5.00ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RBR251606

Quant Time: Sep 29 00:57:02 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D092220S.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 23 01:34:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	8.10	168	727019	50.00	ug/l	0.12
34) 1,4-Difluorobenzene	8.95	114	1308677	50.00	ug/l	0.09
63) Chlorobenzene-d5	11.66	117	723087	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	13.58	152	159724	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.44	65	213812	30.05	ug/l	0.11
Spiked Amount	50.000		Recovery	=	60.10%	
35) Dibromofluoromethane	8.05	113	272005	32.67	ug/l	0.14
Spiked Amount	50.000		Recovery	=	65.34%	
50) Toluene-d8	10.38	98	1122691	39.58	ug/l	0.04
Spiked Amount	50.000		Recovery	=	79.16%	
62) 4-Bromofluorobenzene	12.64	95	232962	23.99	ug/l	0.01
Spiked Amount	50.000		Recovery	=	47.98%	

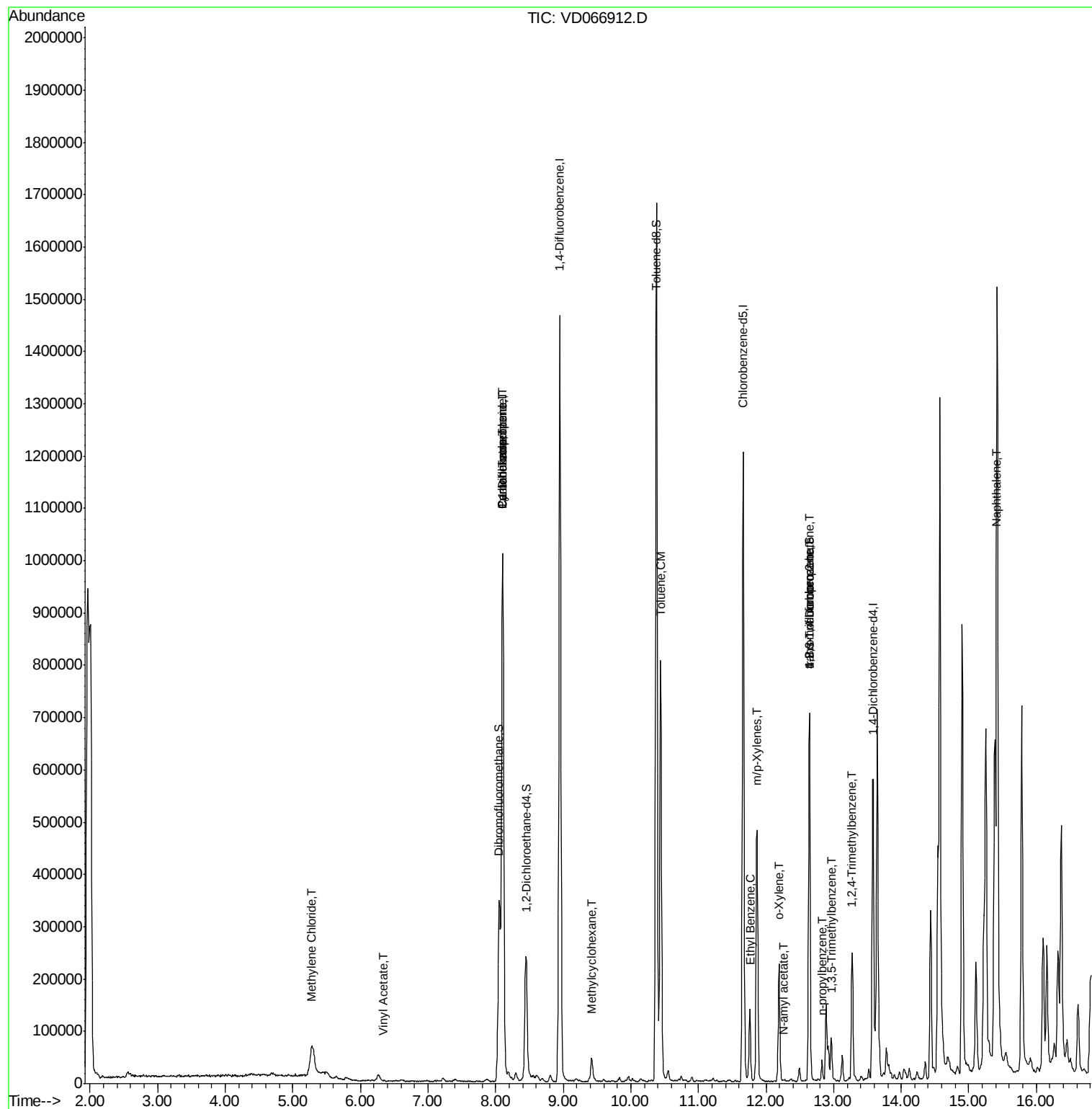
Target Compounds			Qvalue			
2) Dichlorodifluoromethane	2.19	85	776	Below Cal	#	46
11) Tert butyl alcohol	5.29	59	148	Below Cal	#	1
18) Methyl Acetate	4.78	43	861	Below Cal	#	63
20) Methylene Chloride	5.28	84	56003	1.192	ug/l #	81
23) Vinyl Acetate	6.35	43	305	2.698	ug/l #	71
31) Cyclohexane	8.10	56	22691	1.754	ug/l #	1
36) 1,1-Dichloropropene	8.10	75	56861	4.380	ug/l #	48
38) Carbon Tetrachloride	8.10	117	76297	5.375	ug/l #	17
39) Methylcyclohexane	9.42	83	15579	1.045	ug/l	90
49) 1,4-Dioxane	9.32	88	79	Below Cal	#	1
52) Toluene	10.44	92	368796	15.823	ug/l	99
67) Ethyl Benzene	11.76	91	93640	3.542	ug/l	97
68) m/p-Xylenes	11.87	106	151958	15.183	ug/l	100
69) o-Xylene	12.19	106	66743	7.375	ug/l	96
74) N-amyl acetate	12.26	43	2393	1.062	ug/l #	45
76) 1,2,3-Trichloropropane	12.64	75	117974	89.127	ug/l #	100
78) n-propylbenzene	12.83	91	28324	2.040	ug/l	99
80) 1,3,5-Trimethylbenzene	12.97	105	38637	3.946	ug/l	92
81) trans-1,4-Dichloro-2-buten	12.64	75	117974	222.987	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.28	105	143132	14.743	ug/l	100
95) Naphthalene	15.40	128	16922	3.471	ug/l #	82

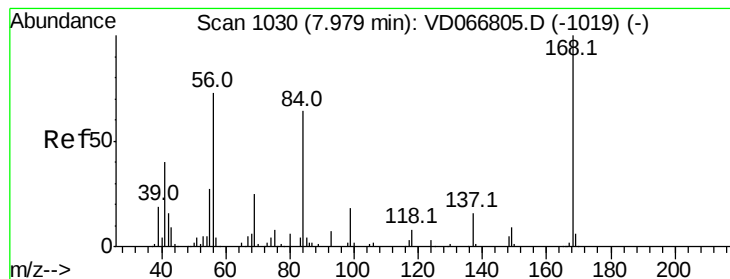
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.10 min Scan# 1051

Delta R.T. 0.12 min

Lab File: VD066912.D

Acq: 28 Sep 2020 14:42

Instrument :

MSVOA_D

ClientSampleId :

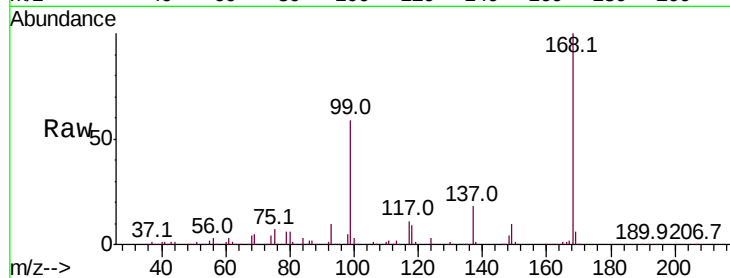
RBR251606

Tot Ion:168 Resp: 727019

Ion Ratio Lower Upper

168 100

99 58.7 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

8.10

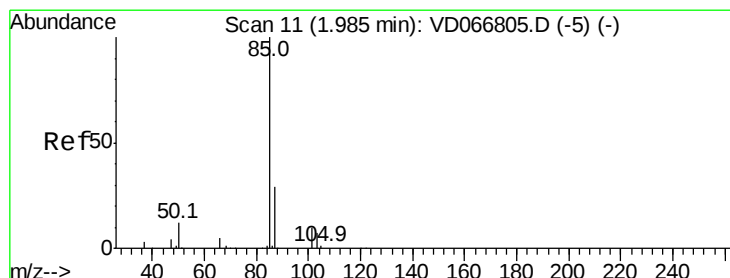
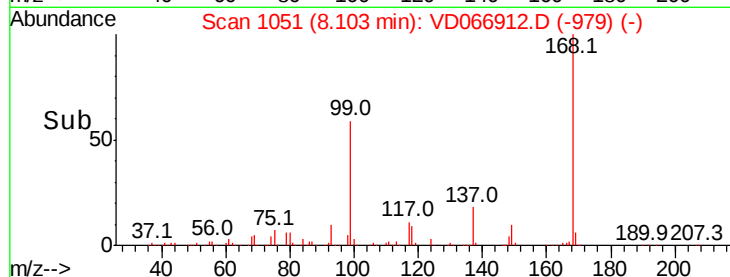
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.19 min Scan# 46

Delta R.T. 0.21 min

Lab File: VD066912.D

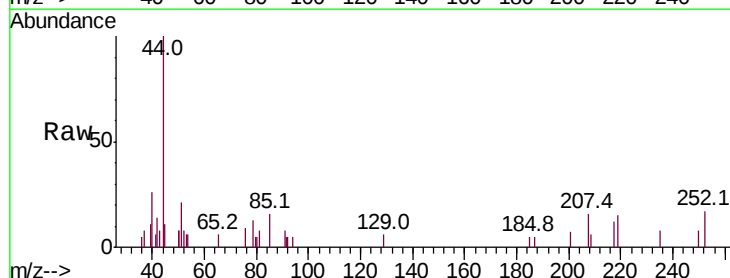
Acq: 28 Sep 2020 14:42

Tgt Ion: 85 Resp: 776

Ion Ratio Lower Upper

85 100

87 0.0 14.5 43.5#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

2.19

600

500

400

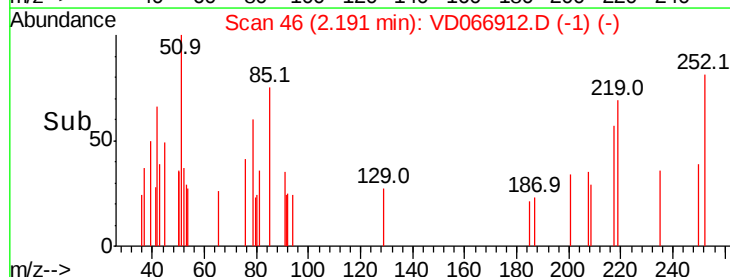
300

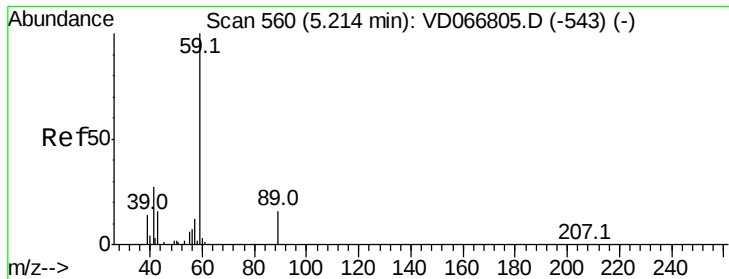
200

100

0

Time-->



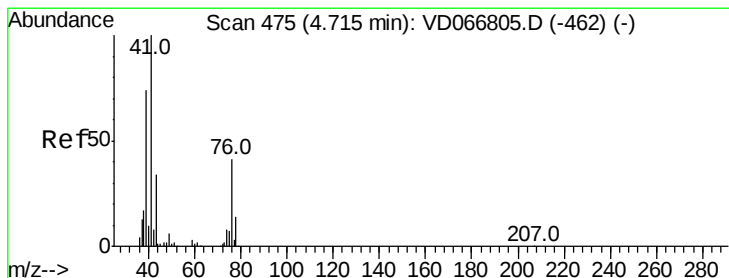
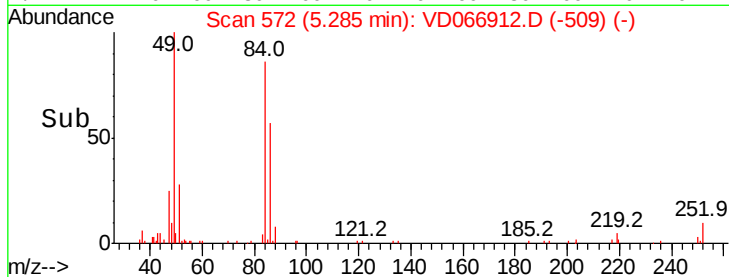
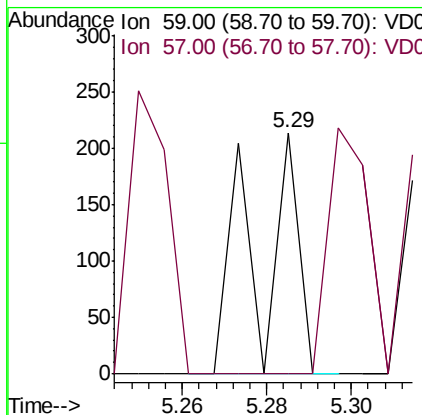
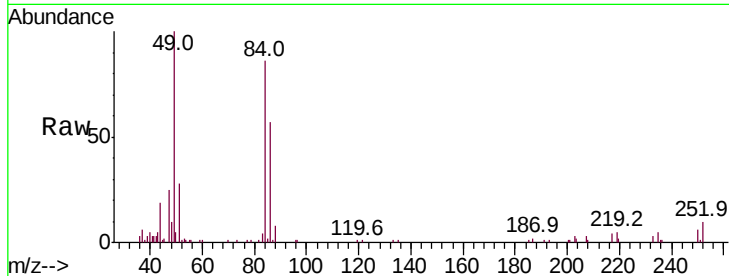


#11

Tert butyl alcohol
Concen: Below Cal
RT: 5.29 min Scan# 572
Delta R.T. 0.07 min
Lab File: VD066912.D
Acq: 28 Sep 2020 14:42

Instrument :
MSVOA_D
ClientSampleId :
RBR251606

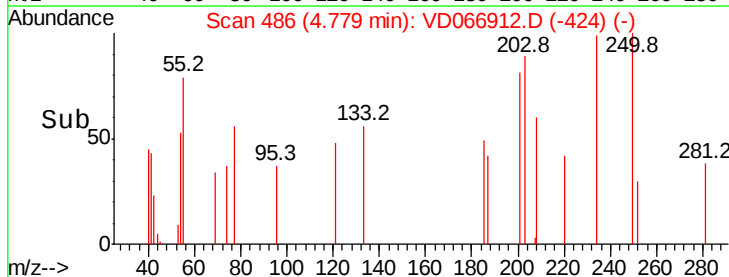
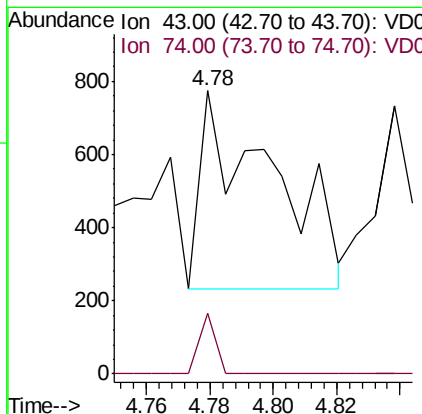
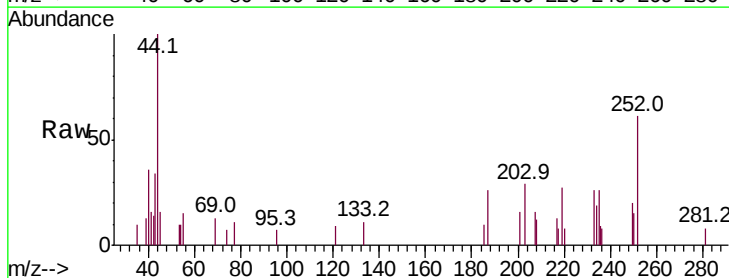
Tot Ion: 59 Resp: 148
Ion Ratio Lower Upper
59 100
57 95.9 8.3 12.5#

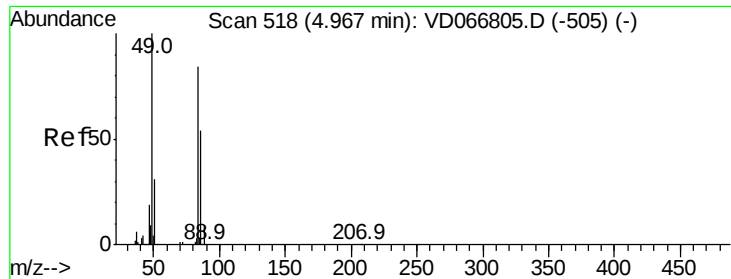


#18

Methyl Acetate
Concen: Below Cal
RT: 4.78 min Scan# 486
Delta R.T. 0.07 min
Lab File: VD066912.D
Acq: 28 Sep 2020 14:42

Tgt Ion: 43 Resp: 861
Ion Ratio Lower Upper
43 100
74 6.7 20.3 30.5#

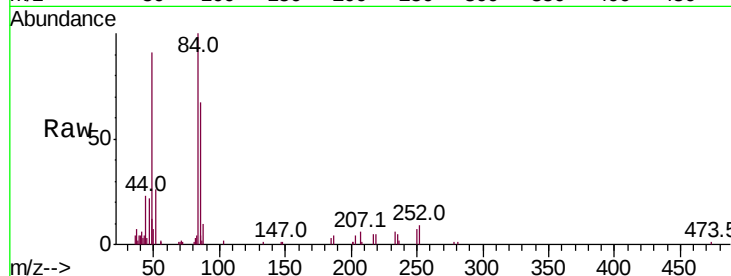




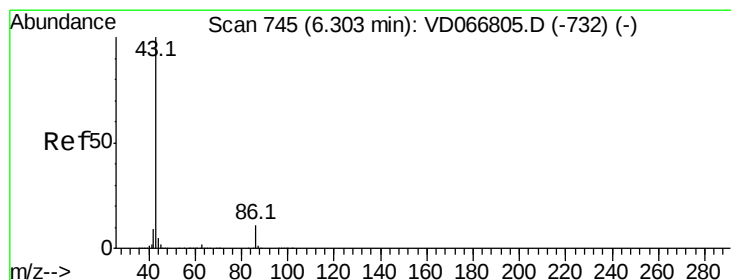
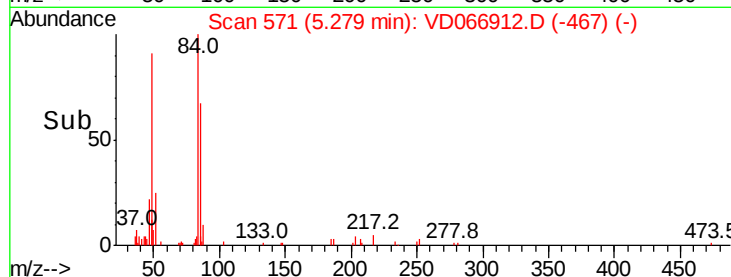
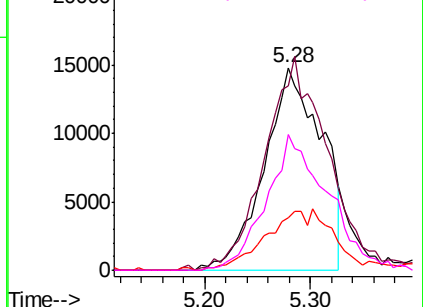
#20
Methvlene Chloride
Concen: 1.192 ug/l
RT: 5.28 min Scan# 571
Delta R.T. 0.31 min
Lab File: VD066912.D
Acq: 28 Sep 2020 14:42

Instrument :
MSVOA_D
ClientSampleId :
RBR251606

Tot Ion: 84 Resp: 56003
Ion Ratio Lower Upper
84 100
49 88.2 95.4 143.2#
51 25.1 29.7 44.5#
86 66.7 51.4 77.2

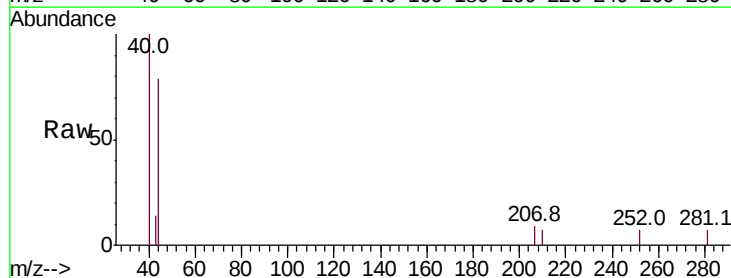


Abundance Ion 83.90 (83.60 to 84.60): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

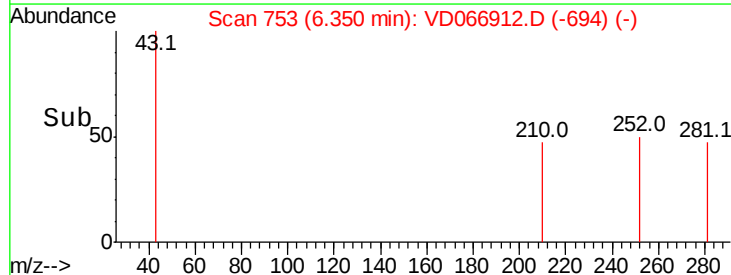
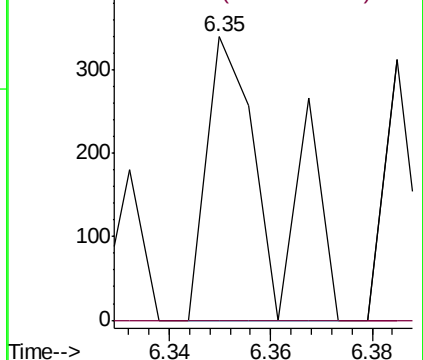


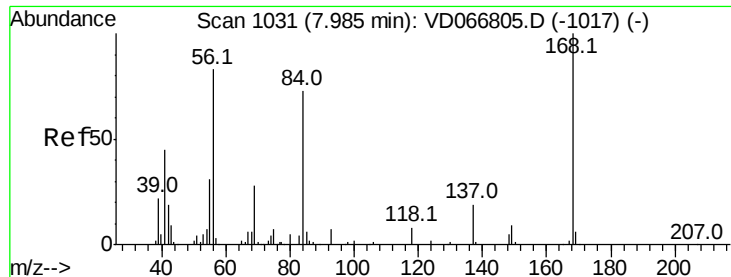
#23
Vinyl Acetate
Concen: 2.698 ug/l
RT: 6.35 min Scan# 753
Delta R.T. 0.05 min
Lab File: VD066912.D
Acq: 28 Sep 2020 14:42

Tgt Ion: 43 Resp: 305
Ion Ratio Lower Upper
43 100
86 0.0 8.9 13.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 86.00 (85.70 to 86.70): VDC

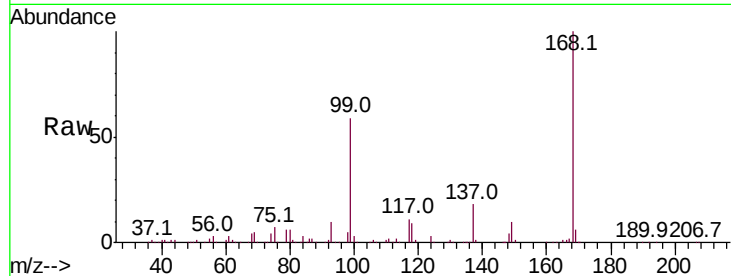




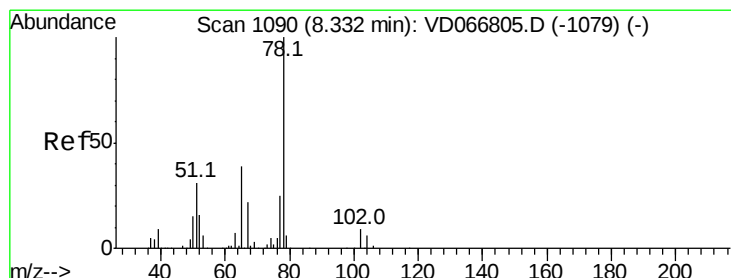
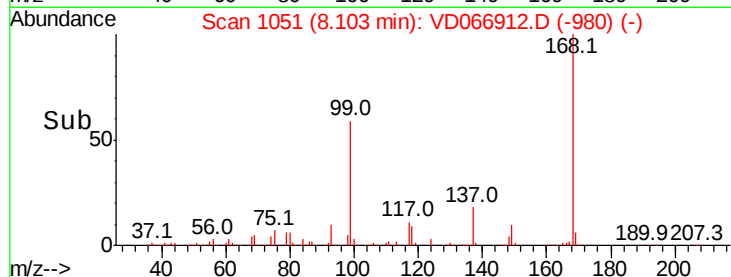
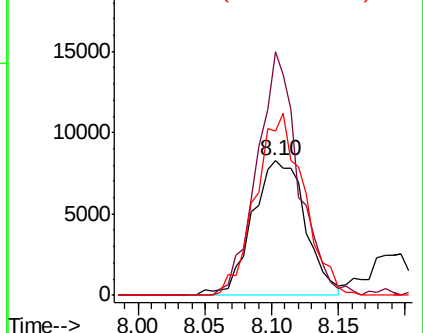
#31
Cyclohexane
Concen: 1.754 ug/l
RT: 8.10 min Scan# 1051
Delta R.T. 0.12 min
Lab File: VD066912.D
Acq: 28 Sep 2020 14:42

Instrument :
MSVOA_D
ClientSampleId :
RBR251606

Tot Ion: 56 Resp: 22691
Ion Ratio Lower Upper
56 100
69 181.4 27.0 40.4#
84 122.4 70.2 105.4#

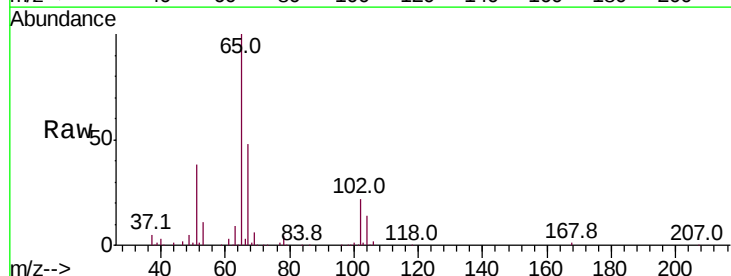


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

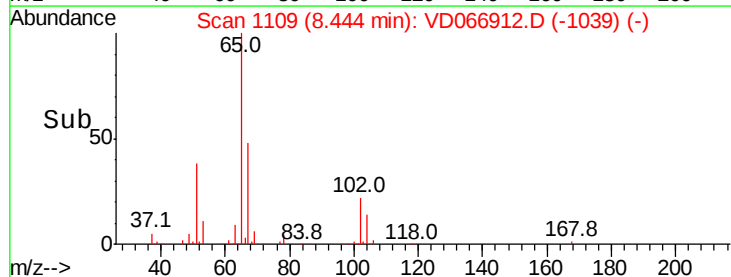
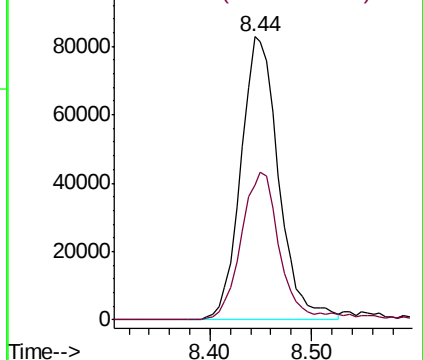


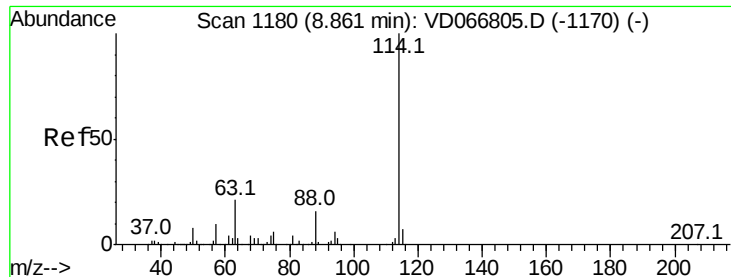
#33
1,2-Dichloroethane-d4
Concen: 30.048 ug/l
RT: 8.44 min Scan# 1109
Delta R.T. 0.11 min
Lab File: VD066912.D
Acq: 28 Sep 2020 14:42

Tgt Ion: 65 Resp: 213812
Ion Ratio Lower Upper
65 100
67 52.1 0.0 107.2



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

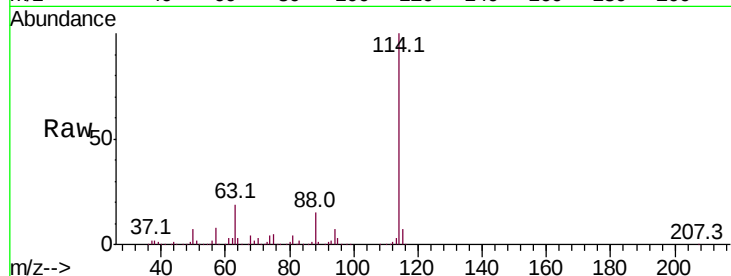




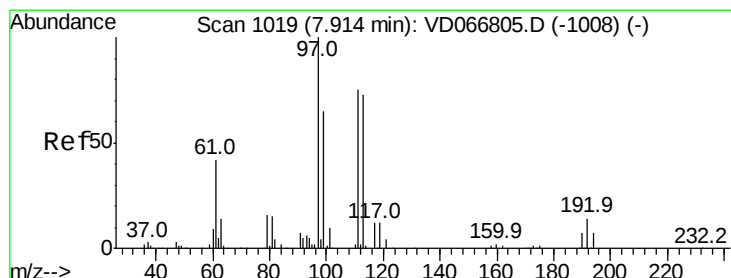
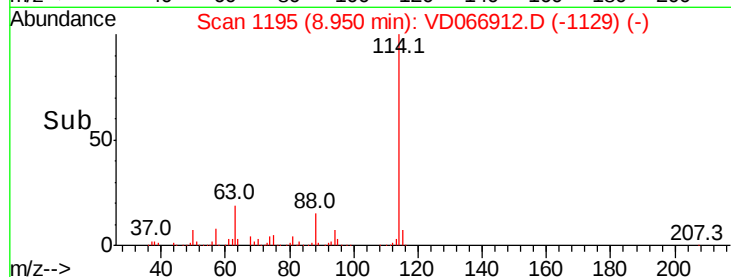
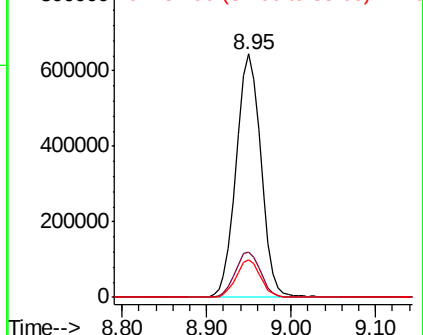
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.95 min Scan# 1195
Delta R.T. 0.09 min
Lab File: VD066912.D
Acq: 28 Sep 2020 14:42

Instrument :
MSVOA_D
ClientSampleId :
RBR251606

Tot Ion:114 Resp: 1308677
Ion Ratio Lower Upper
114 100
63 18.6 0.0 42.6
88 15.4 0.0 32.6

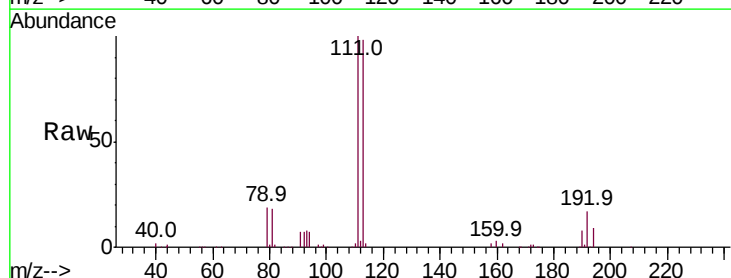


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): V
Ion 87.90 (87.60 to 88.60): V

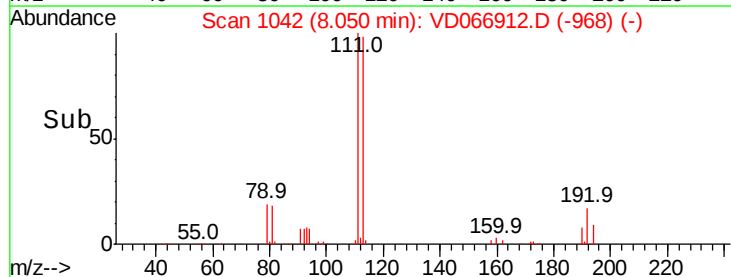
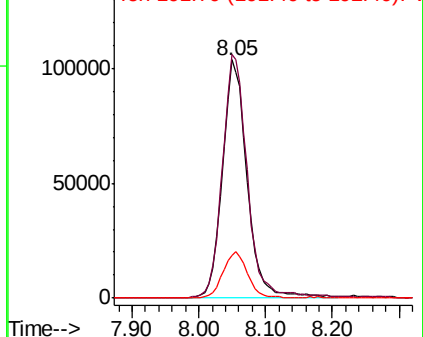


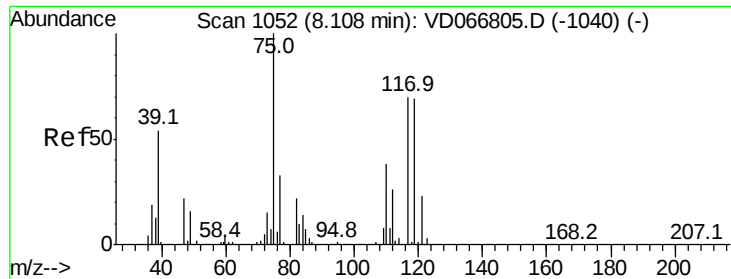
#35
Dibromofluoromethane
Concen: 32.670 ug/l
RT: 8.05 min Scan# 1042
Delta R.T. 0.14 min
Lab File: VD066912.D
Acq: 28 Sep 2020 14:42

Tgt Ion:113 Resp: 272005
Ion Ratio Lower Upper
113 100
111 101.2 81.8 122.8
192 19.1 14.4 21.6



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: 4.380 ug/l

RT: 8.10 min Scan# 1051

Delta R.T. -0.01 min

Lab File: VD066912.D

Acq: 28 Sep 2020 14:42

Instrument :

MSVOA_D

ClientSampleId :

RBR251606

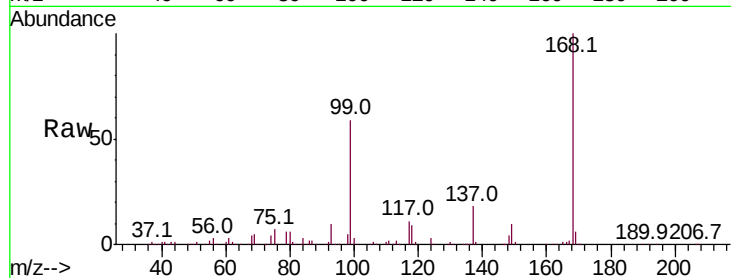
Tot Ion: 75 Resp: 56861

Ion Ratio Lower Upper

75 100

110 7.5 17.9 53.8#

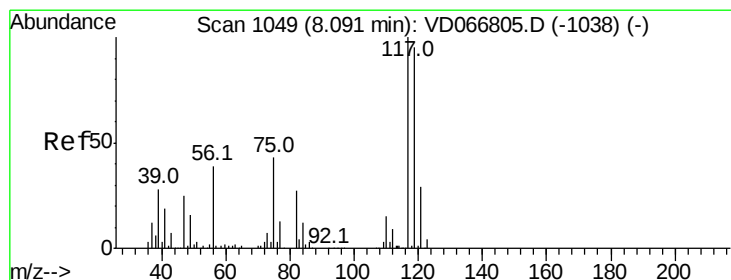
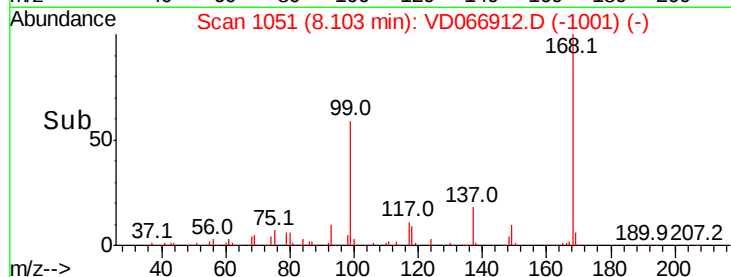
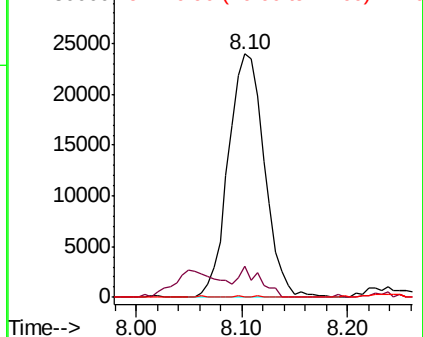
77 0.0 25.0 37.6#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V



#38

Carbon Tetrachloride

Concen: 5.375 ug/l

RT: 8.10 min Scan# 1051

Delta R.T. 0.01 min

Lab File: VD066912.D

Acq: 28 Sep 2020 14:42

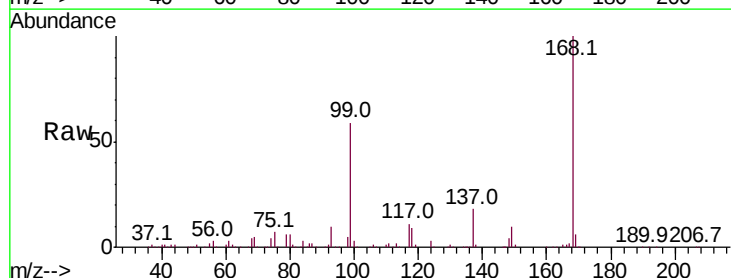
Tgt Ion: 117 Resp: 76297

Ion Ratio Lower Upper

117 100

119 5.9 75.8 113.8#

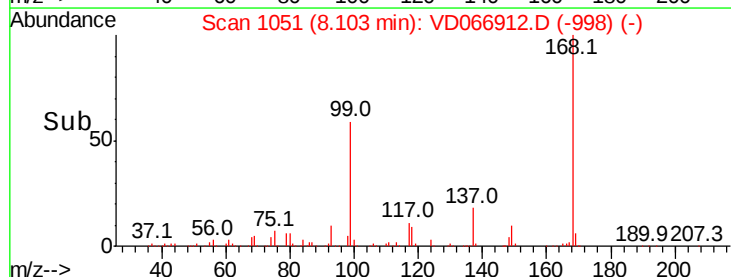
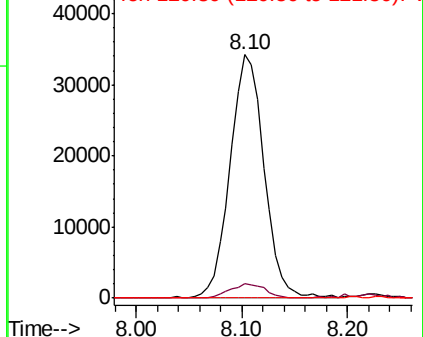
121 0.0 23.4 35.0#

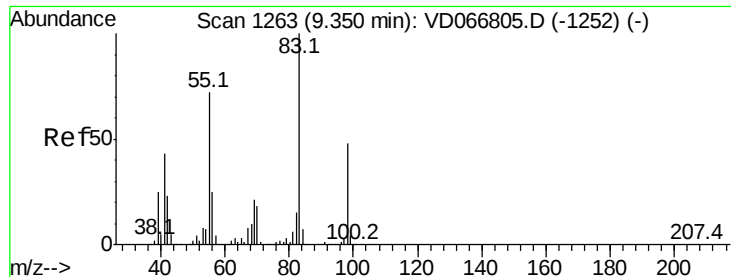


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#39

Methylcyclohexane

Concen: 1.045 ug/l

RT: 9.42 min Scan# 1275

Delta R.T. 0.07 min

Lab File: VD066912.D

Acq: 28 Sep 2020 14:42

Instrument :

MSVOA_D

ClientSampleId :

RBR251606

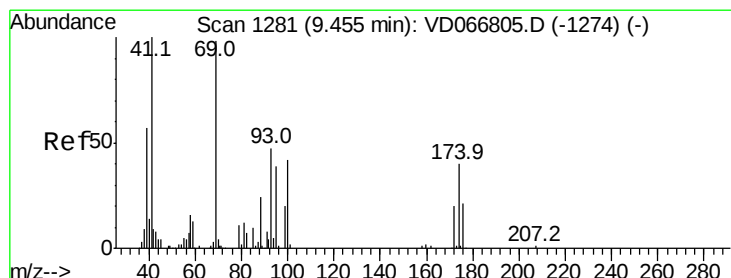
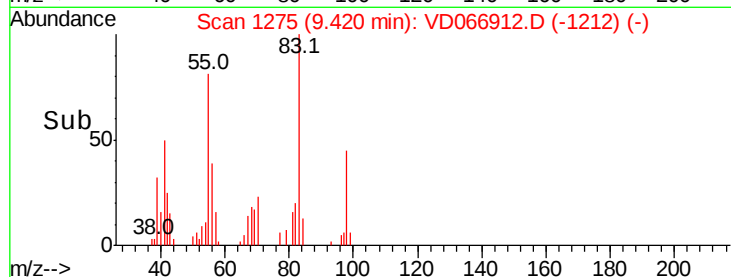
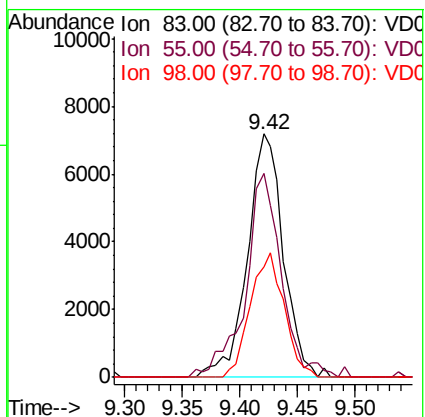
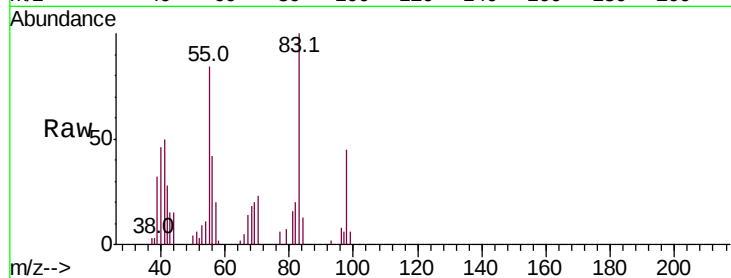
Tot Ion: 83 Resp: 15579

Ion Ratio Lower Upper

83 100

55 83.7 57.7 86.5

98 45.4 38.4 57.6



#49

1,4-Dioxane

Concen: Below Cal

RT: 9.32 min Scan# 1258

Delta R.T. -0.13 min

Lab File: VD066912.D

Acq: 28 Sep 2020 14:42

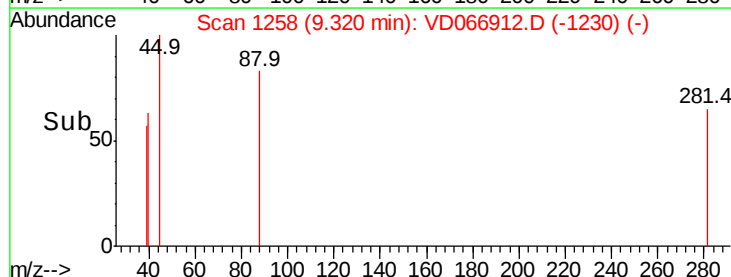
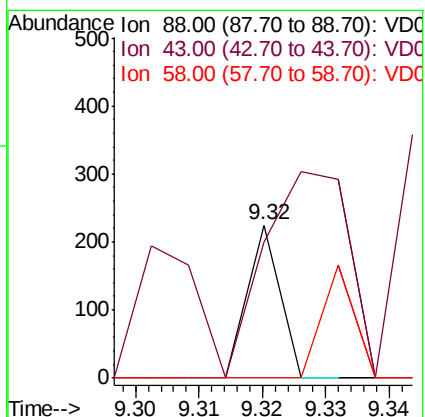
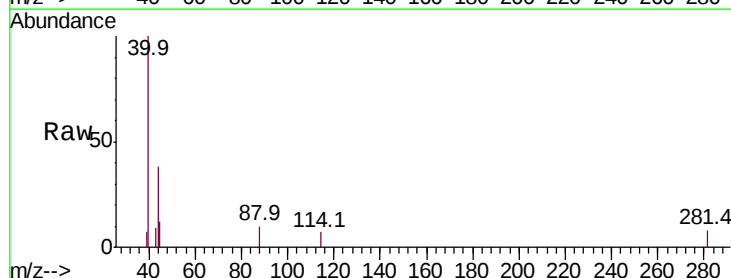
Tgt Ion: 88 Resp: 79

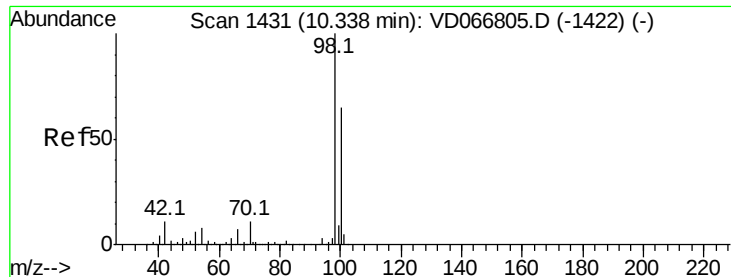
Ion Ratio Lower Upper

88 100

43 355.7 27.7 41.5#

58 74.7 55.5 83.3

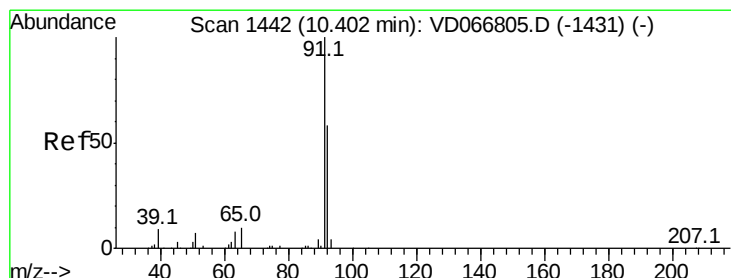
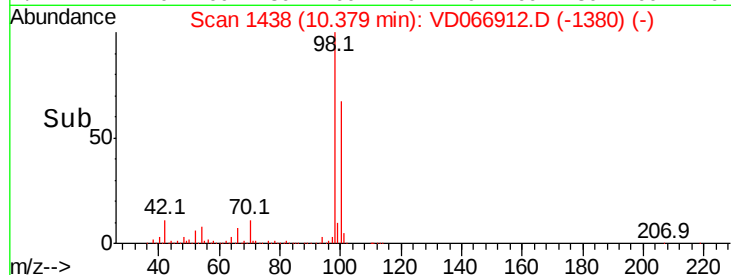
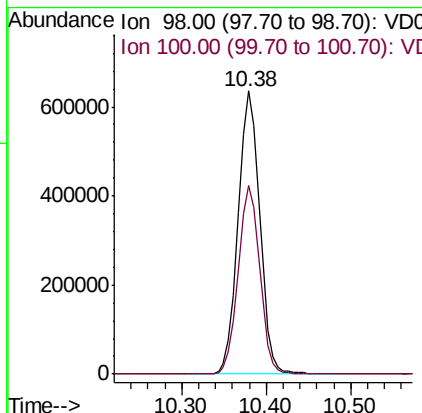
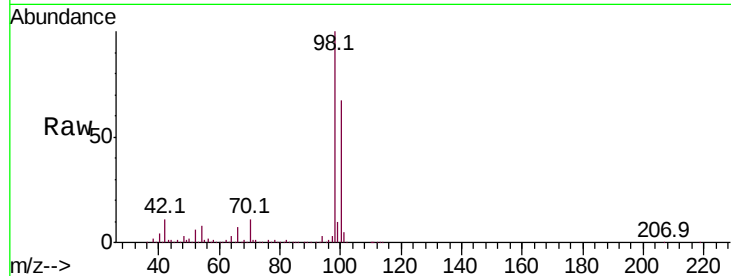




#50
Toluene-d8
Concen: 39.577 ug/l
RT: 10.38 min Scan# 1438
Delta R.T. 0.04 min
Lab File: VD066912.D
Acq: 28 Sep 2020 14:42

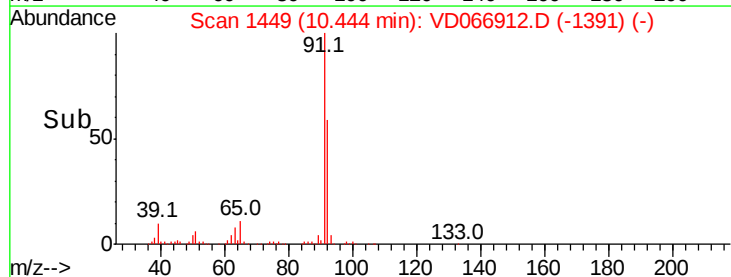
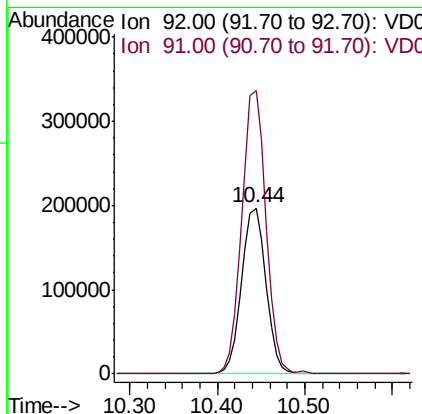
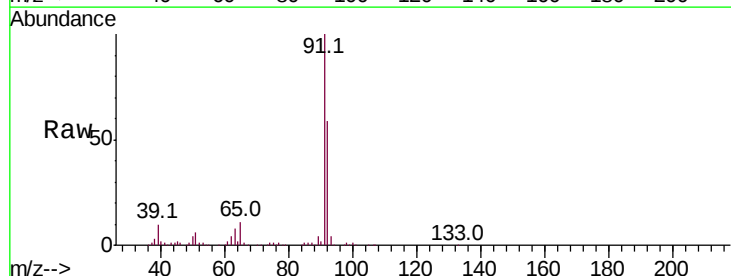
Instrument :
MSVOA_D
ClientSampleId :
RBR251606

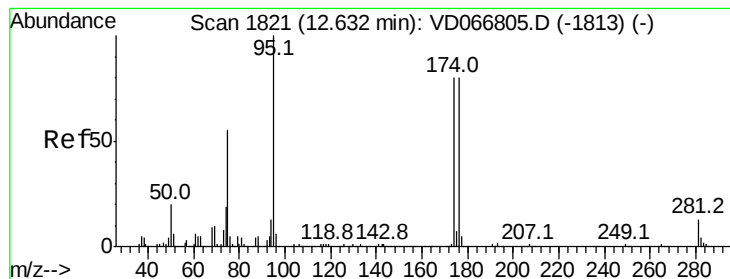
Tot Ion: 98 Resp: 1122691
Ion Ratio Lower Upper
98 100
100 66.2 52.2 78.2



#52
Toluene
Concen: 15.823 ug/l
RT: 10.44 min Scan# 1449
Delta R.T. 0.04 min
Lab File: VD066912.D
Acq: 28 Sep 2020 14:42

Tgt Ion: 92 Resp: 368796
Ion Ratio Lower Upper
92 100
91 169.6 134.6 202.0





#62

4-Bromofluorobenzene

Concen: 23.989 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.01 min

Lab File: VD066912.D

Acq: 28 Sep 2020 14:42

Instrument :

MSVOA_D

ClientSampleId :

RBR251606

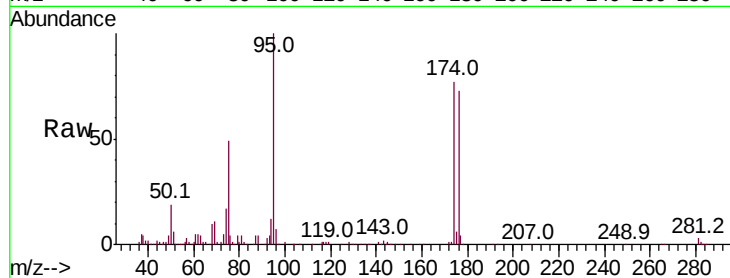
Tot Ion: 95 Resp: 232962

Ion Ratio Lower Upper

95 100

174 81.2 0.0 159.8

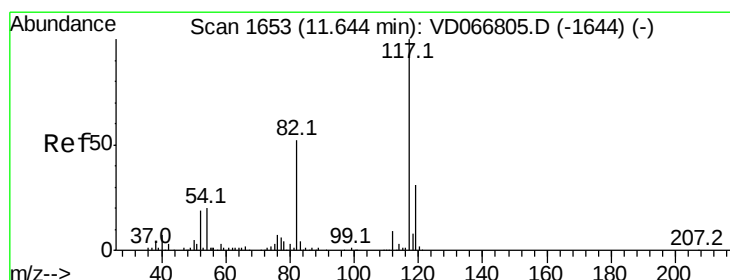
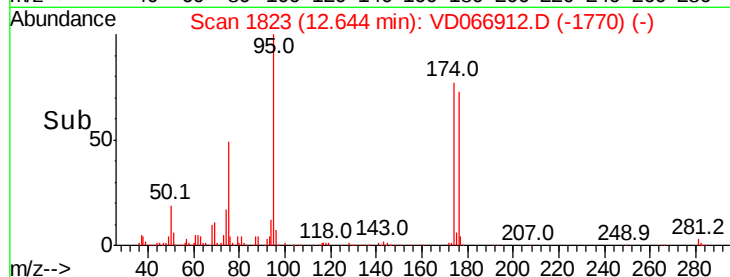
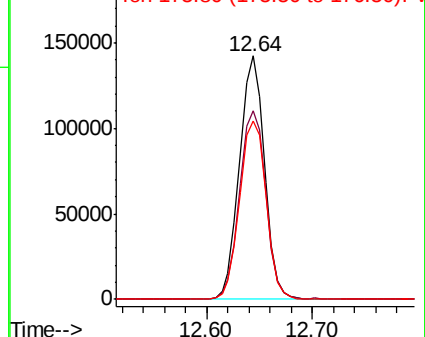
176 77.6 0.0 154.4



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.66 min Scan# 1656

Delta R.T. 0.02 min

Lab File: VD066912.D

Acq: 28 Sep 2020 14:42

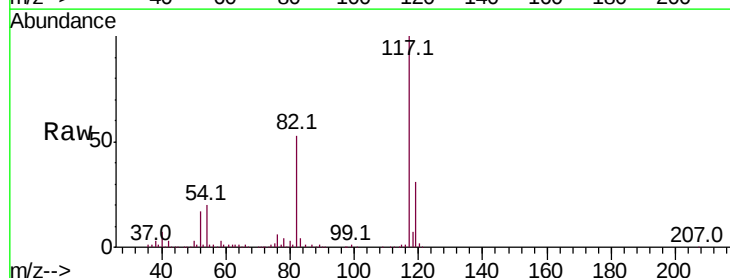
Tgt Ion: 117 Resp: 723087

Ion Ratio Lower Upper

117 100

82 53.5 41.8 62.6

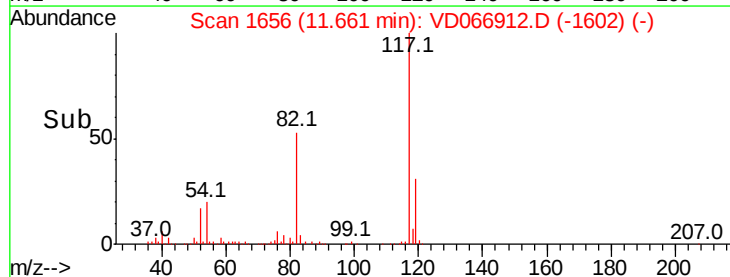
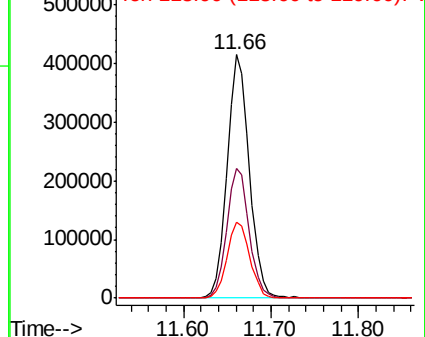
119 31.2 24.6 37.0

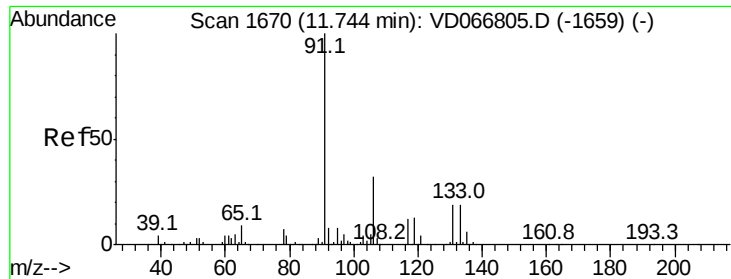


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#67

Ethyl Benzene

Concen: 3.542 ug/l

RT: 11.76 min Scan# 1673

Delta R.T. 0.02 min

Lab File: VD066912.D

Acq: 28 Sep 2020 14:42

Instrument :

MSVOA_D

ClientSampleId :

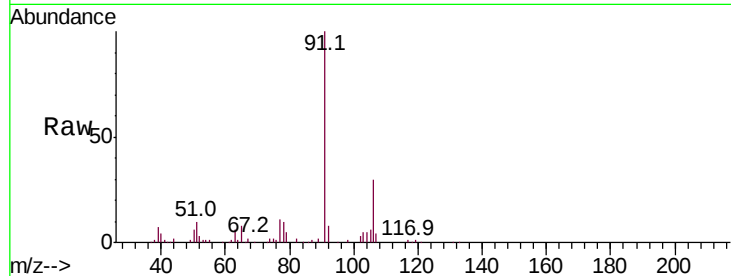
RBR251606

Tot Ion: 91 Resp: 93640

Ion Ratio Lower Upper

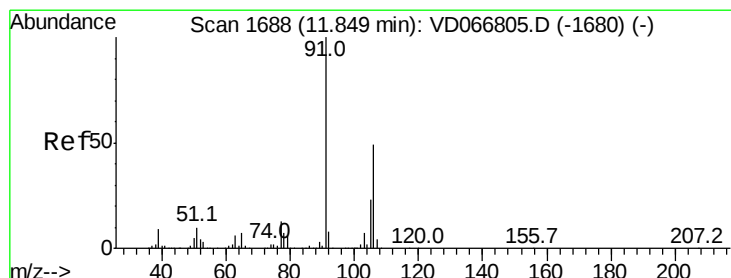
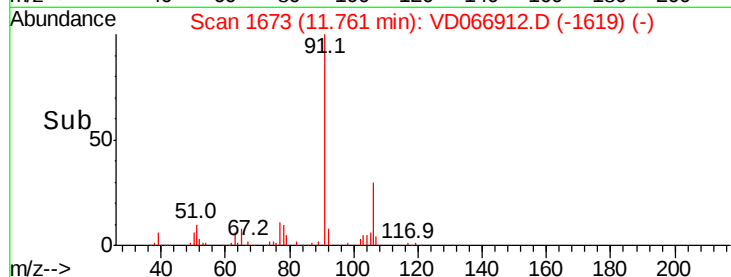
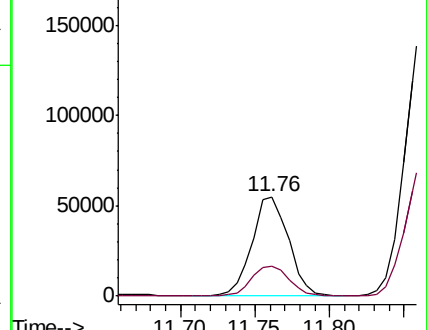
91 100

106 30.4 25.6 38.4



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 15.183 ug/l

RT: 11.87 min Scan# 1691

Delta R.T. 0.02 min

Lab File: VD066912.D

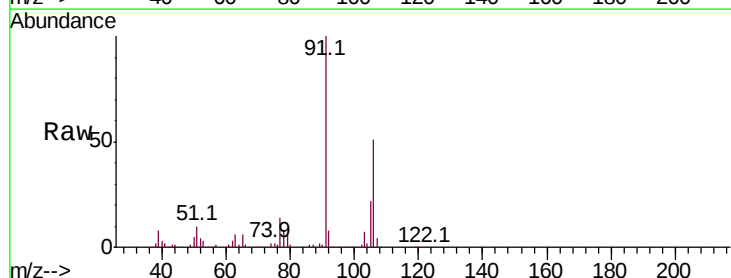
Acq: 28 Sep 2020 14:42

Tgt Ion:106 Resp: 151958

Ion Ratio Lower Upper

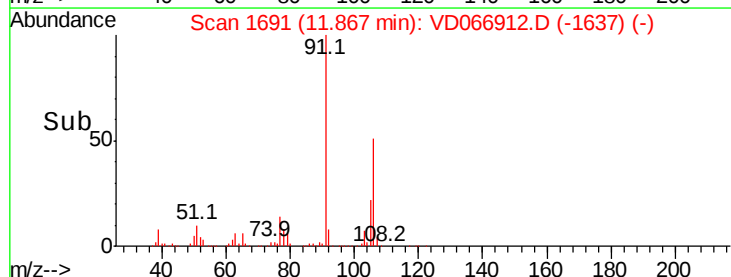
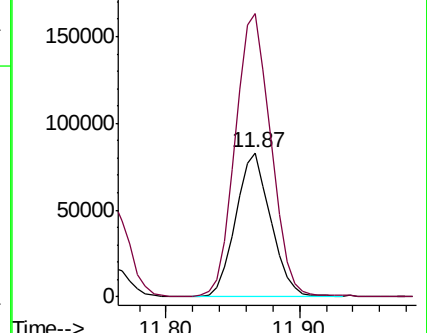
106 100

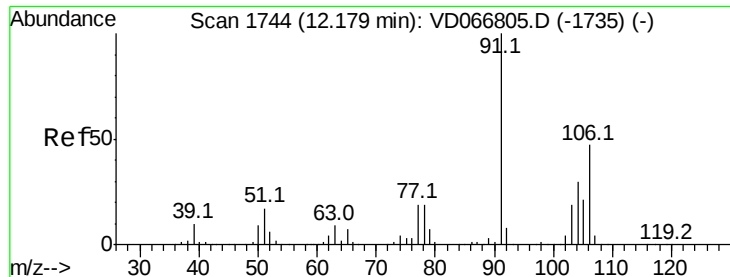
91 200.9 160.7 241.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): V

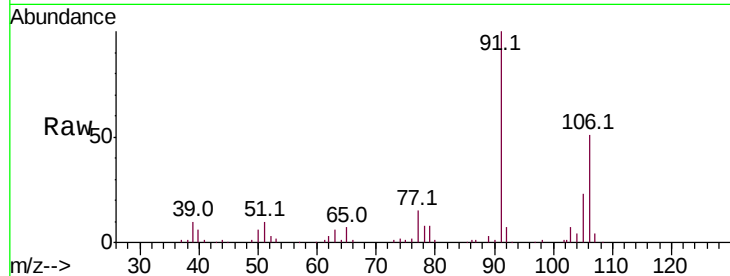




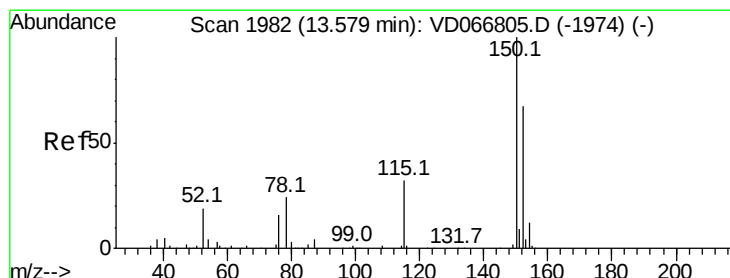
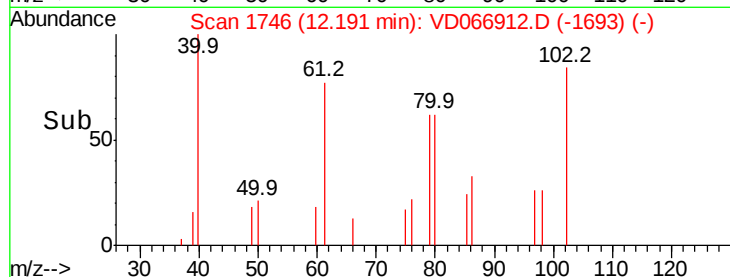
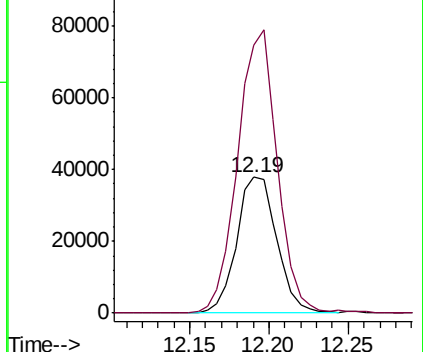
#69
o-Xylene
Concen: 7.375 ug/l
RT: 12.19 min Scan# 1746
Delta R.T. 0.01 min
Lab File: VD066912.D
Acq: 28 Sep 2020 14:42

Instrument :
MSVOA_D
ClientSampleId :
RBR251606

Tot Ion:106 Resp: 66743
Ion Ratio Lower Upper
106 100
91 205.9 106.3 318.8

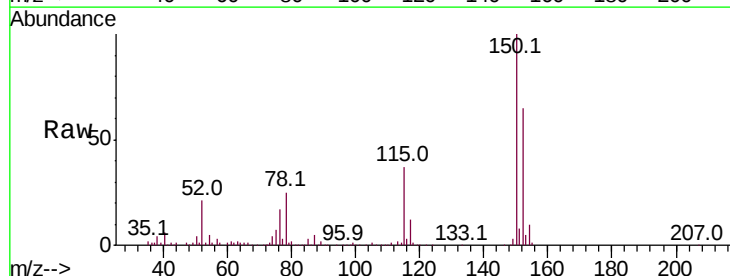


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

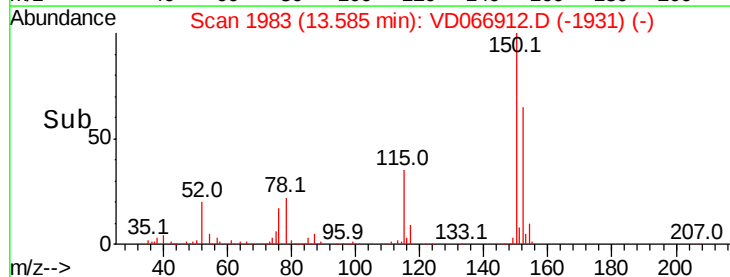
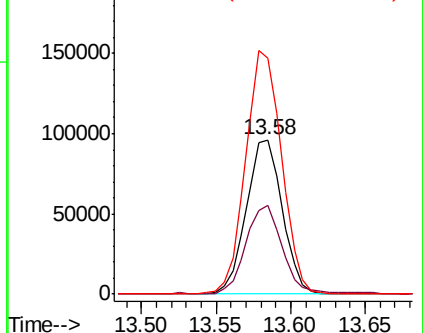


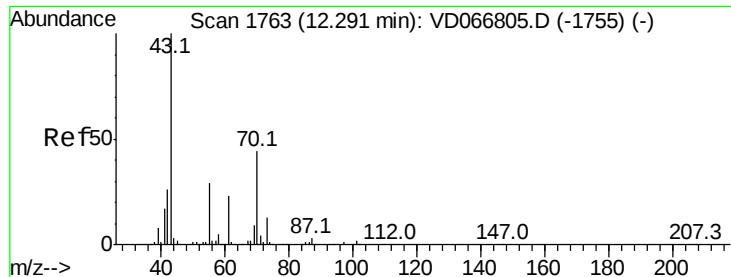
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.01 min
Lab File: VD066912.D
Acq: 28 Sep 2020 14:42

Tgt Ion:152 Resp: 159724
Ion Ratio Lower Upper
152 100
115 59.3 30.3 91.0
150 158.1 0.0 346.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.062 ug/l

RT: 12.26 min Scan# 1758

Delta R.T. -0.03 min

Lab File: VD066912.D

Acq: 28 Sep 2020 14:42

Instrument :

MSVOA_D

ClientSampleId :

RBR251606

Tot Ion: 43 Resp: 2393

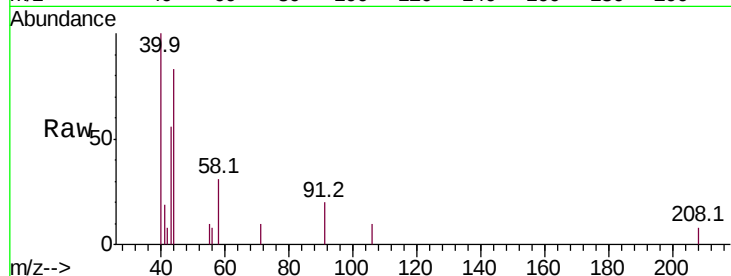
Ion Ratio Lower Upper

43 100

70 0.0 36.1 54.1#

55 8.2 21.8 32.8#

61 0.0 19.0 28.4#

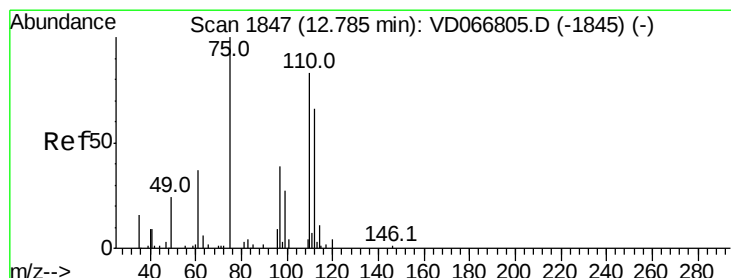
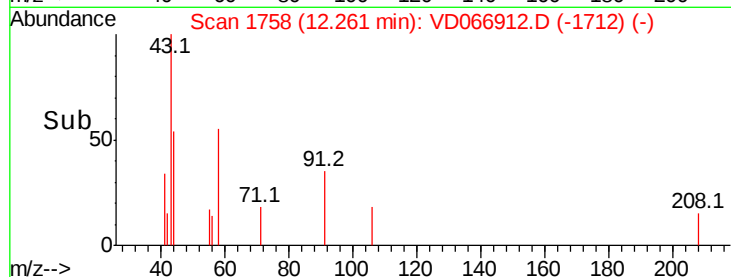
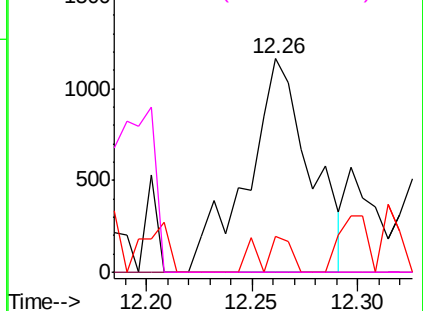


Abundance Ion 43.00 (42.70 to 43.70): VDC

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



#76

1,2,3-Trichloropropane

Concen: 89.127 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. -0.14 min

Lab File: VD066912.D

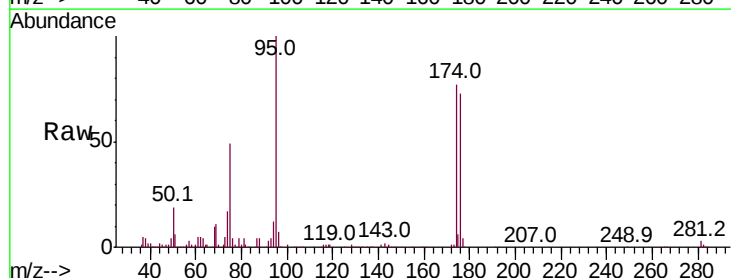
Acq: 28 Sep 2020 14:42

Tgt Ion: 75 Resp: 117974

Ion Ratio Lower Upper

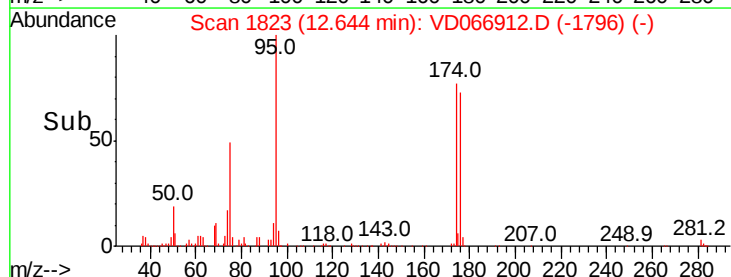
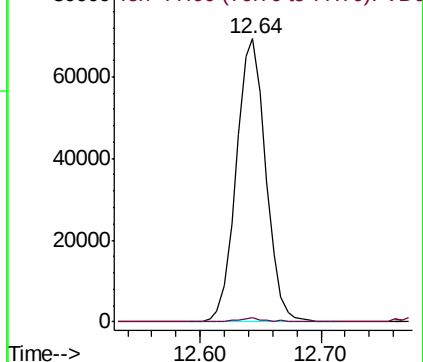
75 100

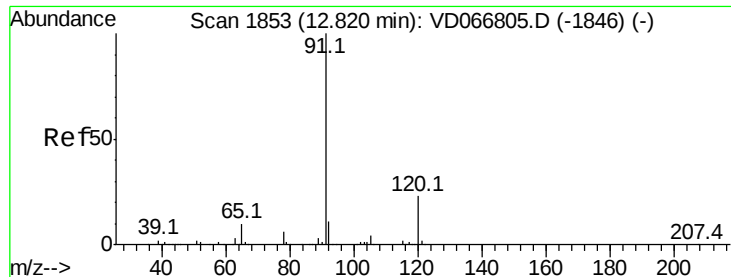
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#78

n-propylbenzene

Concen: 2.040 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.01 min

Lab File: VD066912.D

Acq: 28 Sep 2020 14:42

Instrument :

MSVOA_D

ClientSampleId :

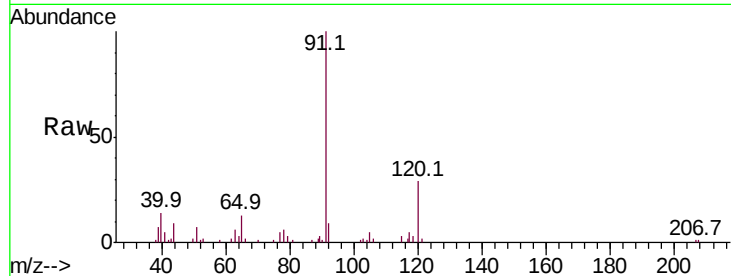
RBR251606

Tot Ion: 91 Resp: 28324

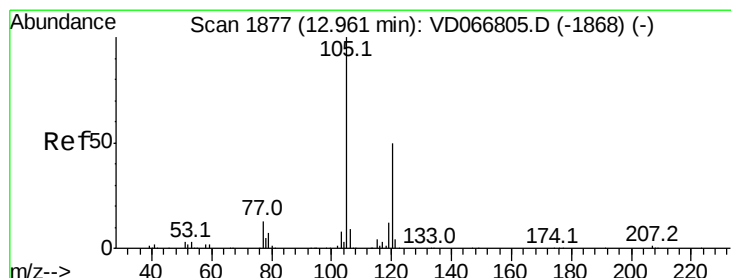
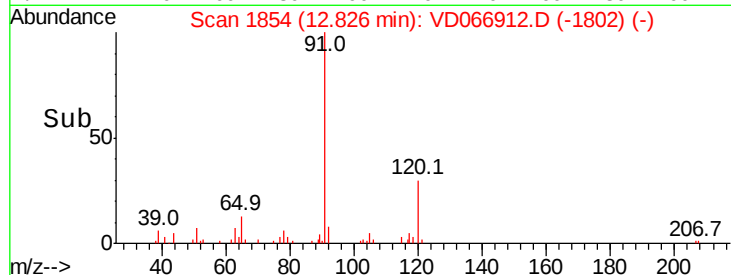
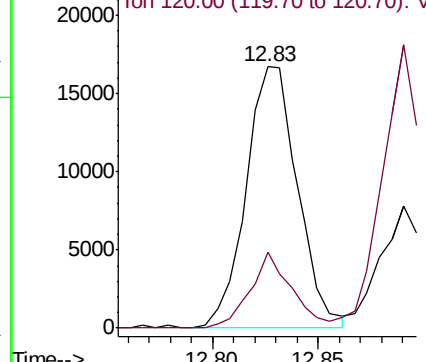
Ion Ratio Lower Upper

91 100

120 23.4 11.4 34.2



Abundance Ion 91.00 (90.70 to 91.70): V



#80

1,3,5-Trimethylbenzene

Concen: 3.946 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.01 min

Lab File: VD066912.D

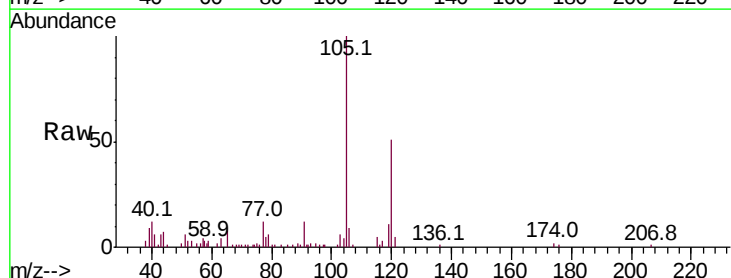
Acq: 28 Sep 2020 14:42

Tgt Ion:105 Resp: 38637

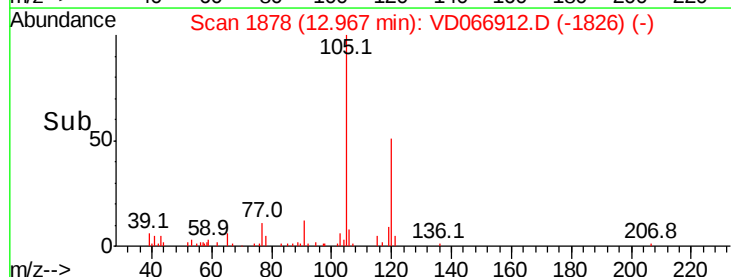
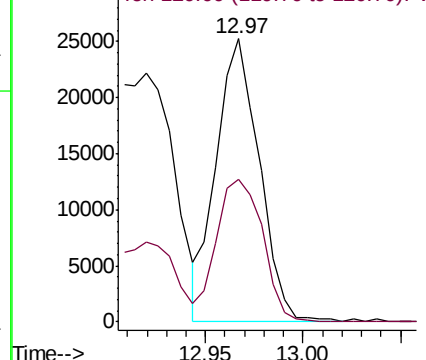
Ion Ratio Lower Upper

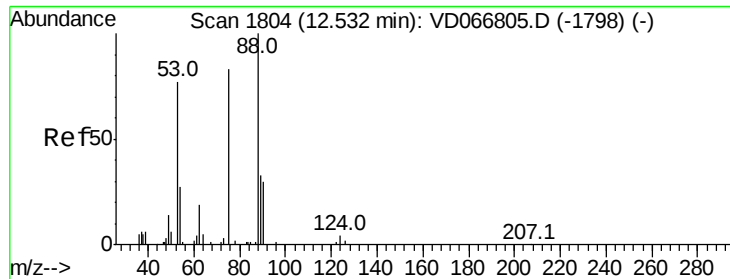
105 100

120 54.1 24.4 73.4



Abundance Ion 105.00 (104.70 to 105.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 222.987 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.11 min

Lab File: VD066912.D

Acq: 28 Sep 2020 14:42

Instrument :

MSVOA_D

ClientSampleId :

RBR251606

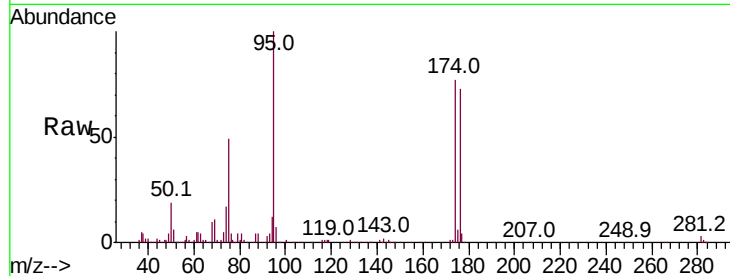
Tot Ion: 75 Resp: 117974

Ion Ratio Lower Upper

75 100

53 0.3 78.5 117.7#

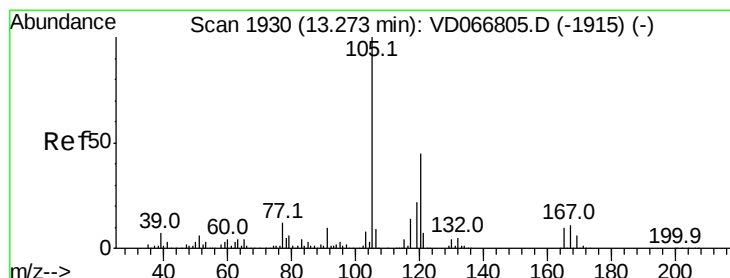
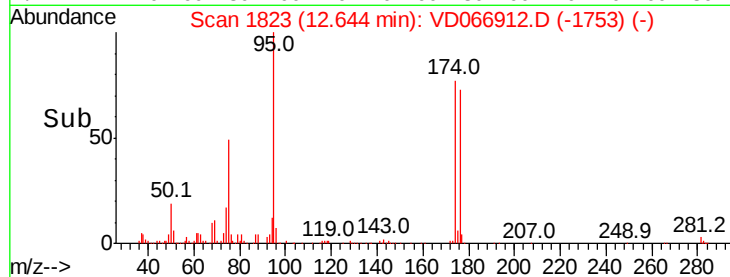
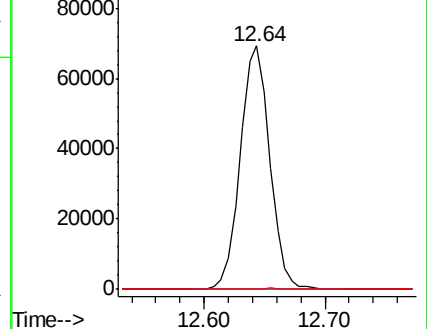
89 0.1 38.1 57.1#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC



#84

1,2,4-Trimethylbenzene

Concen: 14.743 ug/l

RT: 13.28 min Scan# 1931

Delta R.T. 0.01 min

Lab File: VD066912.D

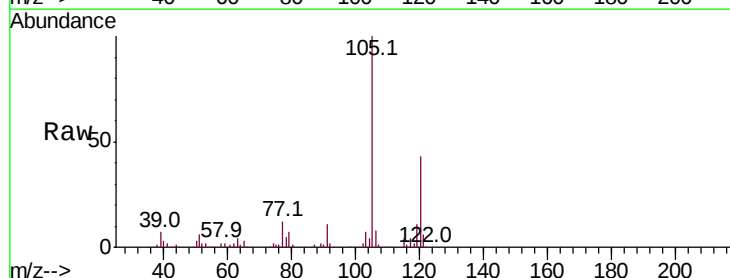
Acq: 28 Sep 2020 14:42

Tgt Ion: 105 Resp: 143132

Ion Ratio Lower Upper

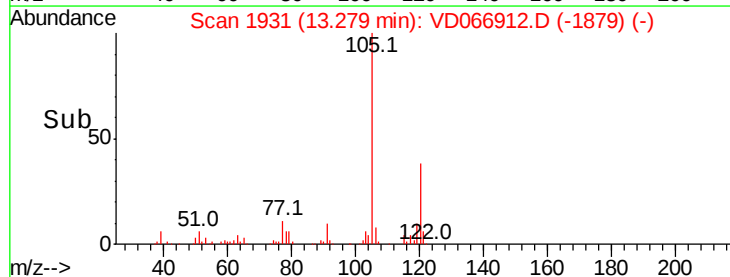
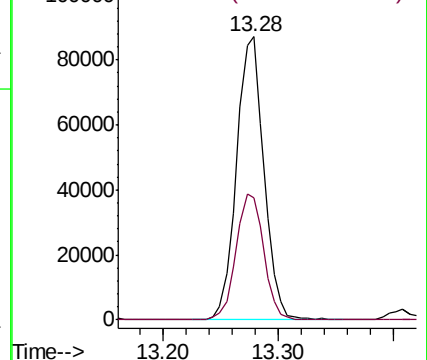
105 100

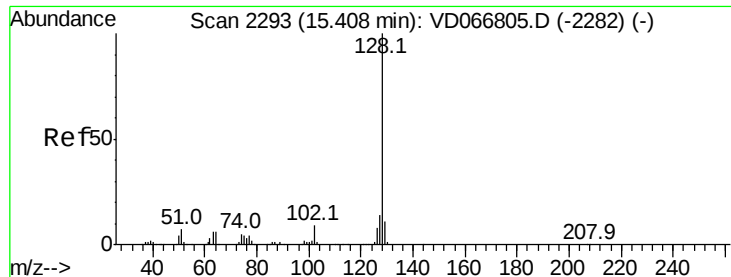
120 44.7 22.3 66.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95

Naphthalene

Concen: 3.471 ug/l

RT: 15.40 min Scan# 2292

Delta R.T. -0.01 min

Lab File: VD066912.D

Acq: 28 Sep 2020 14:42

Instrument :

MSVOA_D

ClientSampleId :

RBR251606

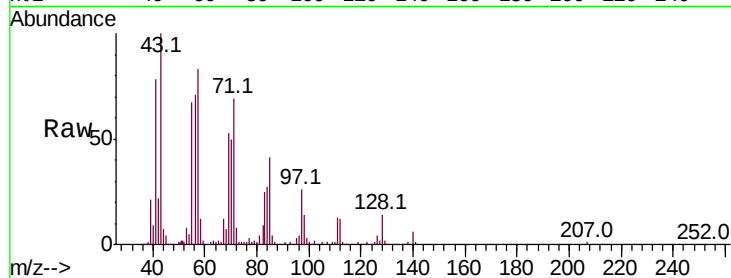
Tot Ion:128 Resp: 16922

Ion Ratio Lower Upper

128 100

127 24.9 10.6 16.0#

129 13.3 8.9 13.3



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

