

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081320\
 Data File : VD066223.D
 Acq On : 13 Aug 2020 21:09
 Operator : VA/SY
 Sample : L3508-13
 Misc : 5.87G/5.00ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TR-04-081220

Quant Time: Aug 14 03:05:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080520S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 05 13:49:25 2020
 Response via : Initial Calibration

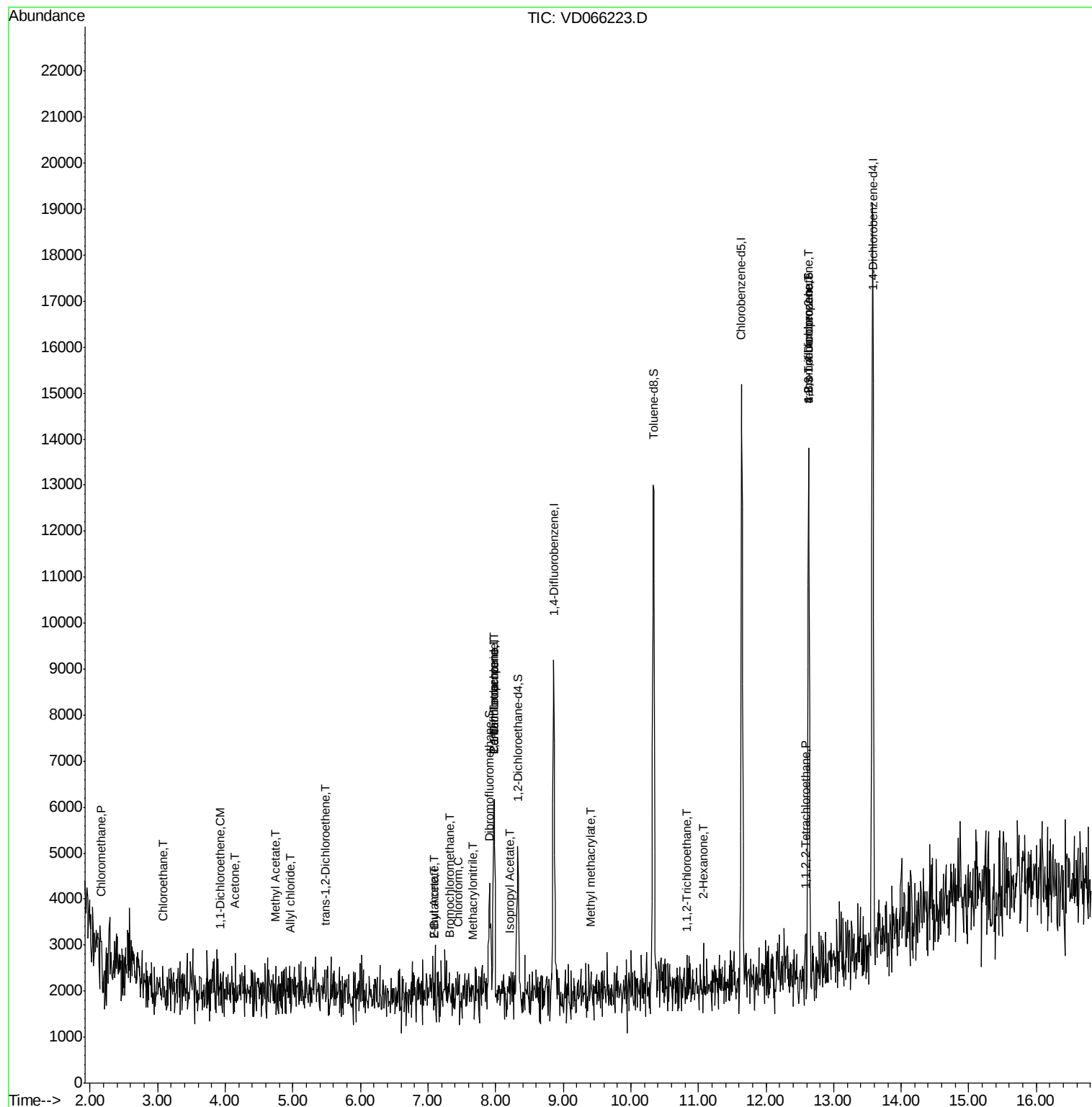
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	4360	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	6740	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	8009	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	4222	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.33	65	2558	65.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	131.52%	
35) Dibromofluoromethane	7.90	113	1127	26.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	52.80%	
50) Toluene-d8	10.34	98	7483	47.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.98%	
62) 4-Bromofluorobenzene	12.63	95	4216	74.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	148.46%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.17	50	55	1.841	ug/l #	40
6) Chloroethane	3.08	64	60	3.695	ug/l #	47
12) 1,1-Dichloroethene	3.92	96	76	1.968	ug/l #	1
14) Allyl chloride	4.97	41	77	1.316	ug/l #	22
16) Acetone	4.16	43	60	8.129	ug/l #	44
18) Methyl Acetate	4.74	43	76	4.054	ug/l #	48
21) trans-1,2-Dichloroethene	5.47	96	65	1.465	ug/l #	1
25) 2-Butanone	7.09	43	59	5.435	ug/l #	47
28) Bromochloromethane	7.33	49	58	2.307	ug/l #	6
30) Chloroform	7.44	83	82	1.091	ug/l #	19
36) 1,1-Dichloropropene	7.98	75	114	1.800	ug/l #	41
37) Ethyl Acetate	7.09	43	59	2.351	ug/l #	66
38) Carbon Tetrachloride	7.97	117	268	3.794	ug/l #	10
41) Methacrylonitrile	7.66	41	56	3.795	ug/l #	21
43) Isopropyl Acetate	8.21	43	68	1.375	ug/l #	50
48) Methyl methacrylate	9.41	41	54	2.139	ug/l #	16
55) 1,1,2-Trichloroethane	10.82	97	58	1.702	ug/l #	17
59) 2-Hexanone	11.07	43	54	3.030	ug/l #	24
75) 1,1,2,2-Tetrachloroethane	12.58	83	60	1.249	ug/l #	26
76) 1,2,3-Trichloropropane	12.63	75	1859	52.800	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	1859	116.717	ug/l #	13

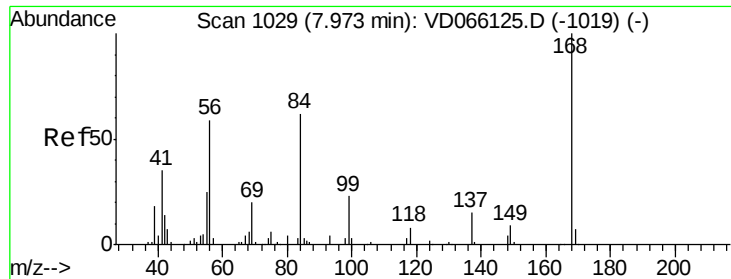
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Aug 05 13:49:25 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.01 min

Lab File: VD066223.D

Acq: 13 Aug 2020 21:09

Instrument :

MSVOA_D

ClientSampleId :

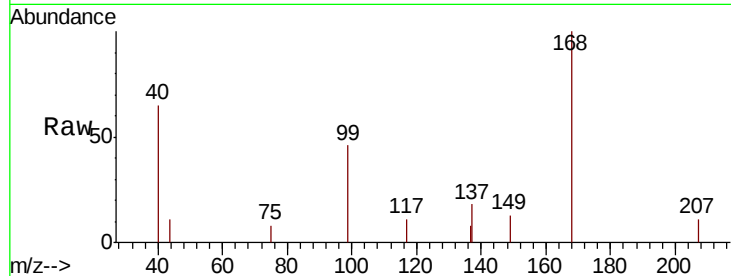
TR-04-081220

Tot Ion:168 Resp: 4360

Ion Ratio Lower Upper

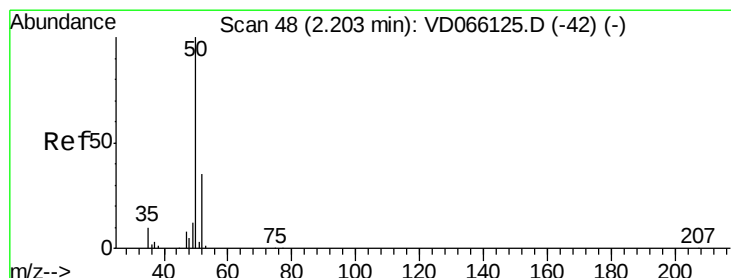
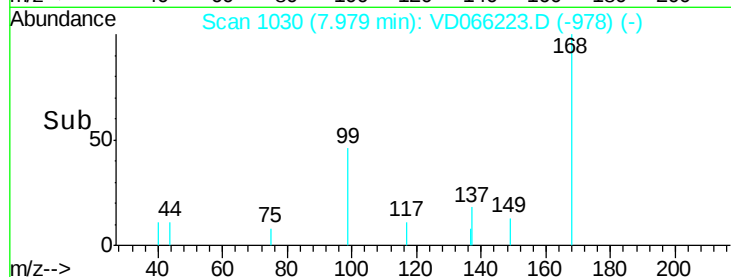
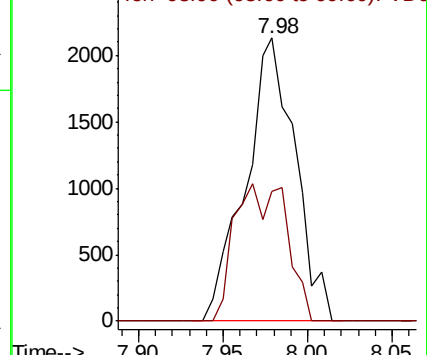
168 100

99 46.0 42.2 63.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: 1.841 ug/l

RT: 2.17 min Scan# 43

Delta R.T. -0.03 min

Lab File: VD066223.D

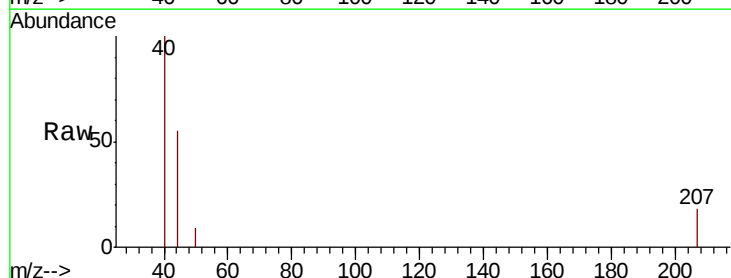
Acq: 13 Aug 2020 21:09

Tgt Ion: 50 Resp: 55

Ion Ratio Lower Upper

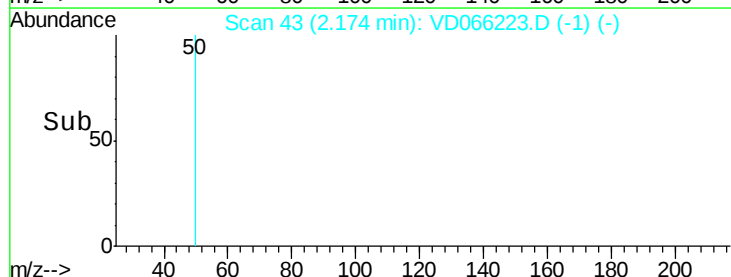
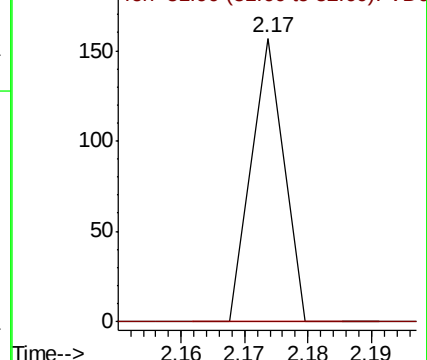
50 100

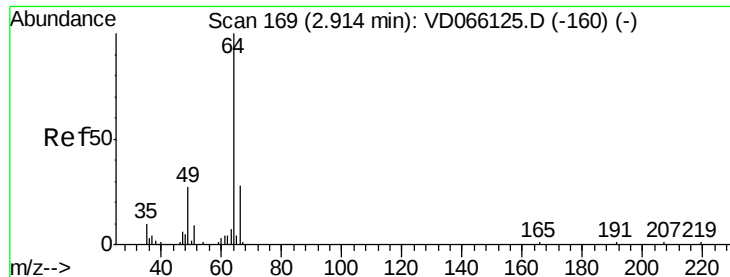
52 0.0 27.9 41.9#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#6

Chloroethane

Concen: 3.695 ug/l

RT: 3.08 min Scan# 197

Delta R.T. 0.16 min

Lab File: VD066223.D

Acq: 13 Aug 2020 21:09

Instrument :

MSVOA_D

ClientSampleId :

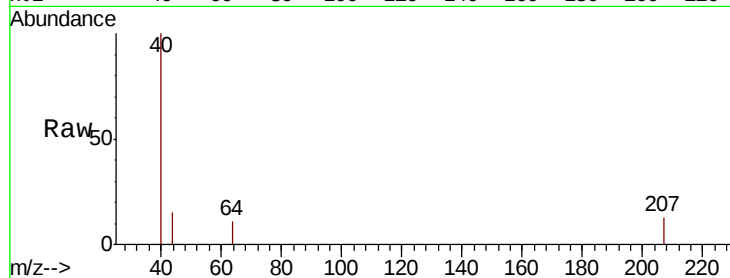
TR-04-081220

Tot Ion: 64 Resp: 60

Ion Ratio Lower Upper

64 100

66 0.0 22.0 33.0#



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC

3.08

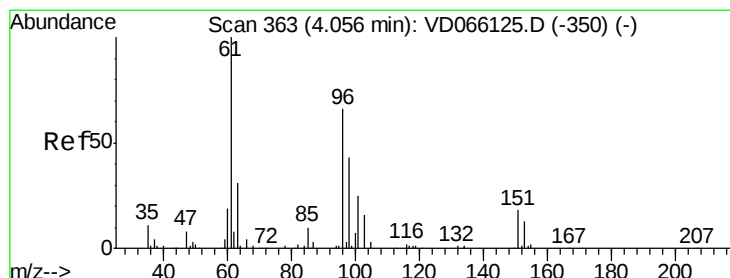
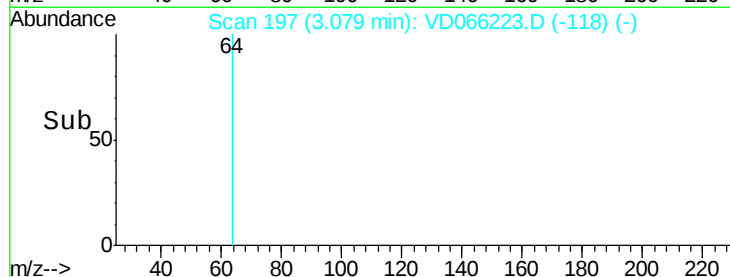
150

100

50

0

Time-->



#12

1,1-Dichloroethene

Concen: 1.968 ug/l

RT: 3.92 min Scan# 340

Delta R.T. -0.14 min

Lab File: VD066223.D

Acq: 13 Aug 2020 21:09

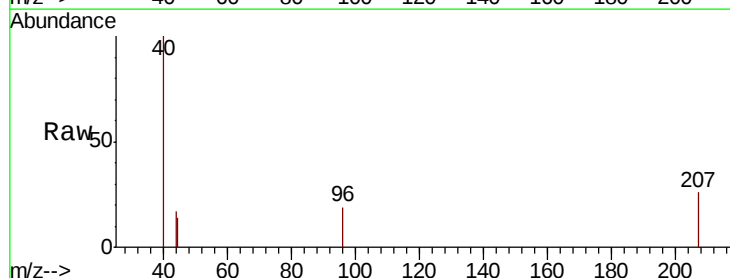
Tgt Ion: 96 Resp: 76

Ion Ratio Lower Upper

96 100

61 0.0 121.6 182.4#

98 0.0 52.0 78.0#



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

3.92

250

200

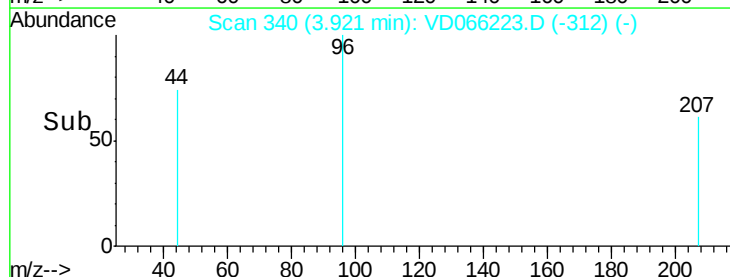
150

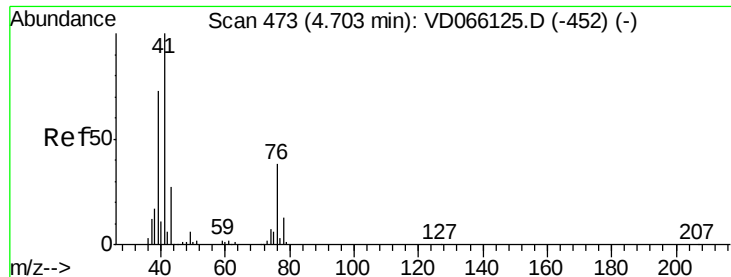
100

50

0

Time-->





#14

Allvl chloride

Concen: 1.316 ug/l

RT: 4.97 min Scan# 518

Delta R.T. 0.26 min

Lab File: VD066223.D

Acq: 13 Aug 2020 21:09

Instrument :

MSVOA_D

ClientSampleId :

TR-04-081220

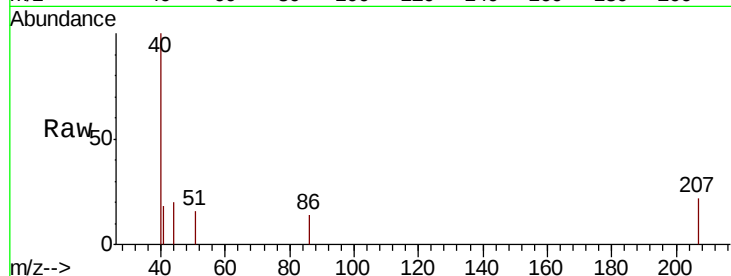
Tot Ion: 41 Resp: 77

Ion Ratio Lower Upper

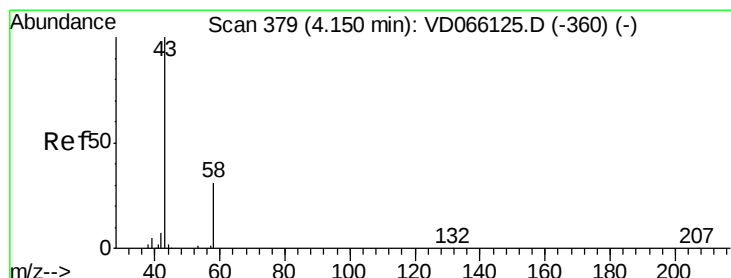
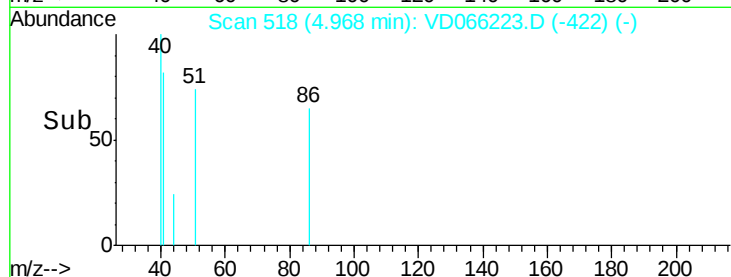
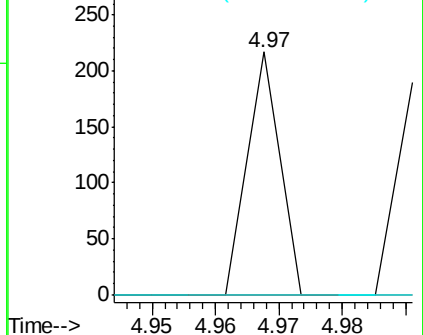
41 100

39 0.0 57.4 86.0#

76 0.0 30.1 45.1#



Abundance Ion 41.00 (40.70 to 41.70): VDC
Ion 39.00 (38.70 to 39.70): VDC
Ion 75.90 (75.60 to 76.60): VDC



#16

Acetone

Concen: 8.129 ug/l

RT: 4.16 min Scan# 380

Delta R.T. 0.01 min

Lab File: VD066223.D

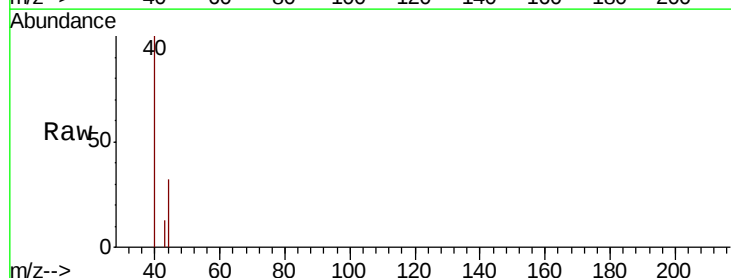
Acq: 13 Aug 2020 21:09

Tgt Ion: 43 Resp: 60

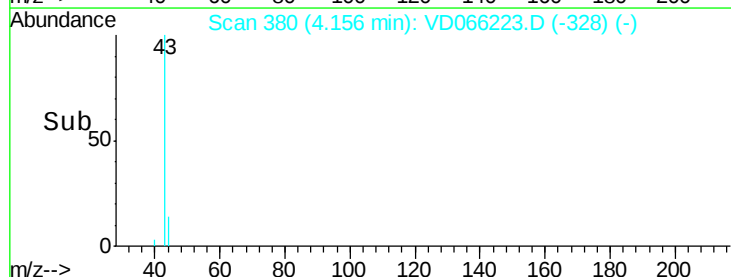
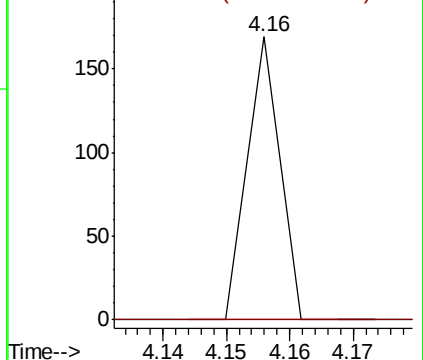
Ion Ratio Lower Upper

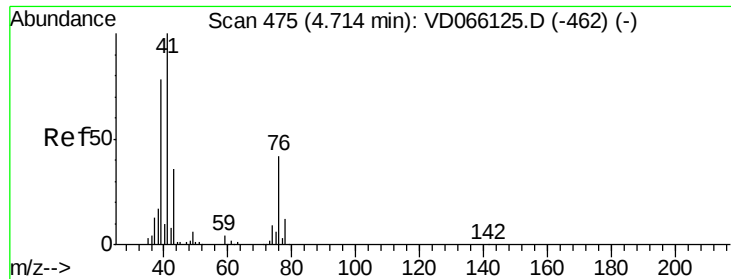
43 100

58 0.0 24.7 37.1#



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





#18

Methyl Acetate

Concen: 4.054 ug/l

RT: 4.74 min Scan# 480

Delta R.T. 0.03 min

Lab File: VD066223.D

Acq: 13 Aug 2020 21:09

Instrument :

MSVOA_D

ClientSampleId :

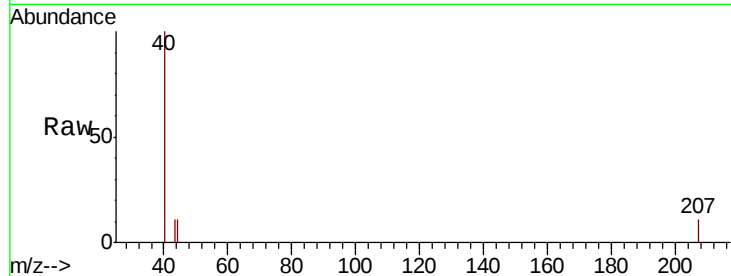
TR-04-081220

Tot Ion: 43 Resp: 76

Ion Ratio Lower Upper

43 100

74 0.0 21.2 31.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

4.74

200

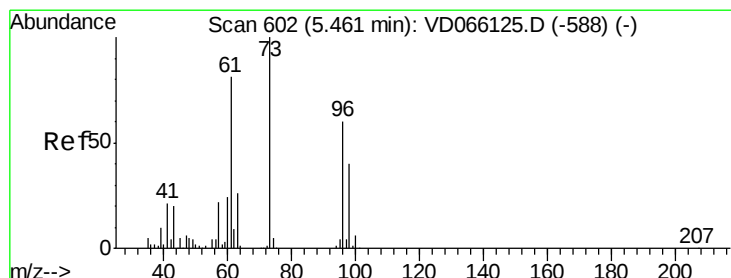
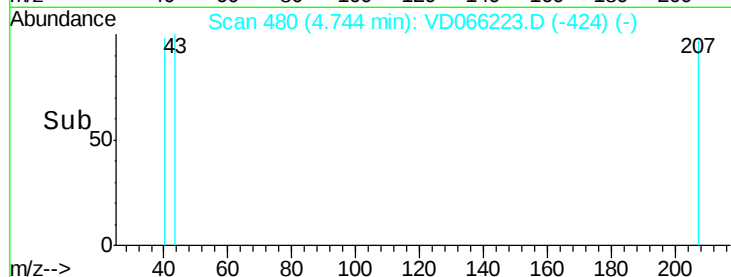
150

100

50

0

Time-->



#21

trans-1,2-Dichloroethene

Concen: 1.465 ug/l

RT: 5.47 min Scan# 603

Delta R.T. 0.01 min

Lab File: VD066223.D

Acq: 13 Aug 2020 21:09

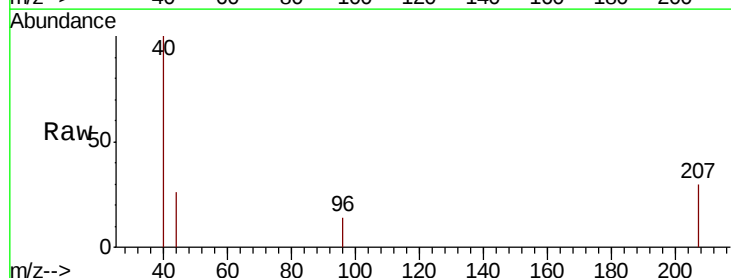
Tgt Ion: 96 Resp: 65

Ion Ratio Lower Upper

96 100

61 0.0 106.9 160.3#

98 0.0 53.4 80.0#



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

5.47

200

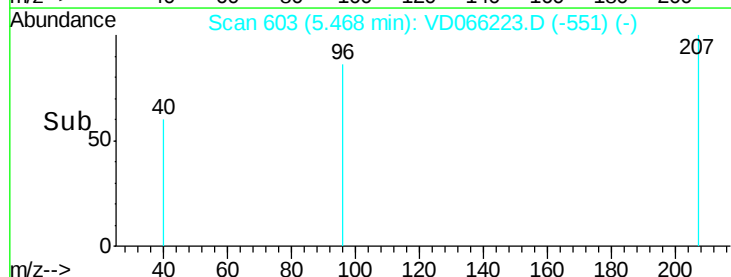
150

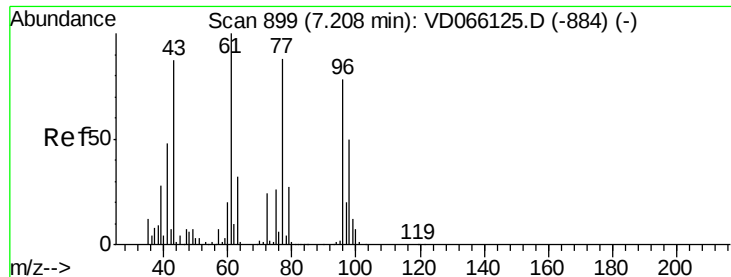
100

50

0

Time-->





#25

2-Butanone

Concen: 5.435 ug/l

RT: 7.09 min Scan# 878

Delta R.T. -0.12 min

Lab File: VD066223.D

Acq: 13 Aug 2020 21:09

Instrument :

MSVOA_D

ClientSampleId :

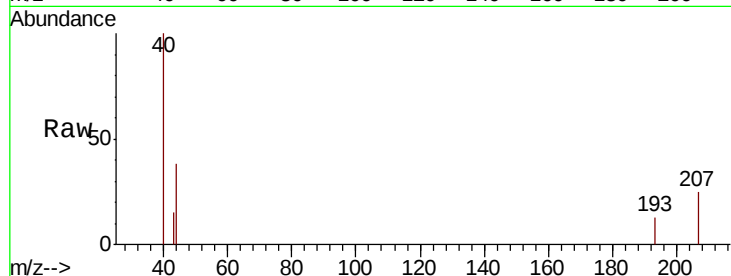
TR-04-081220

Tot Ion: 43 Resp: 59

Ion Ratio Lower Upper

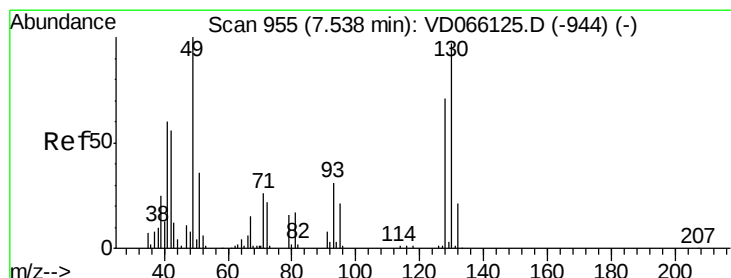
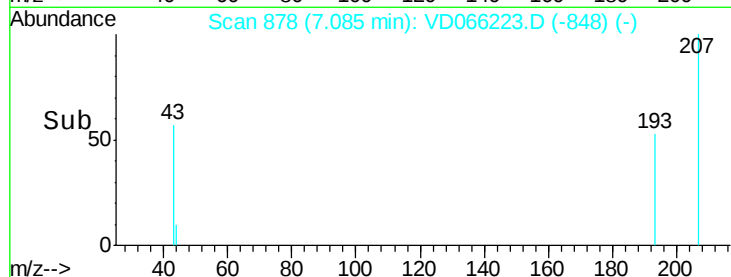
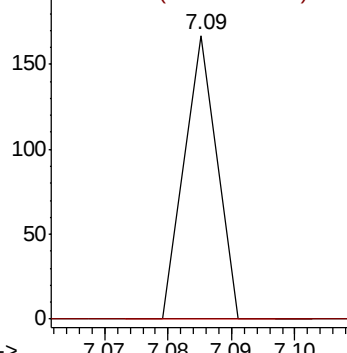
43 100

72 0.0 22.2 33.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#28

Bromochloromethane

Concen: 2.307 ug/l

RT: 7.33 min Scan# 920

Delta R.T. -0.21 min

Lab File: VD066223.D

Acq: 13 Aug 2020 21:09

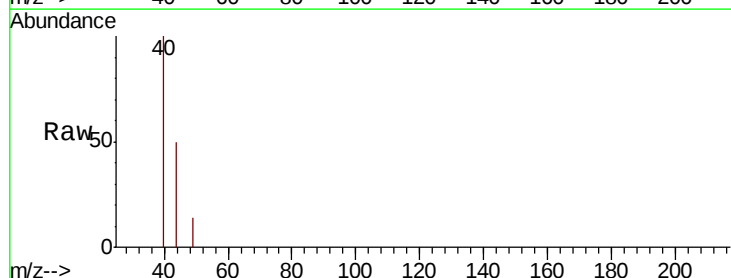
Tgt Ion: 49 Resp: 58

Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.0

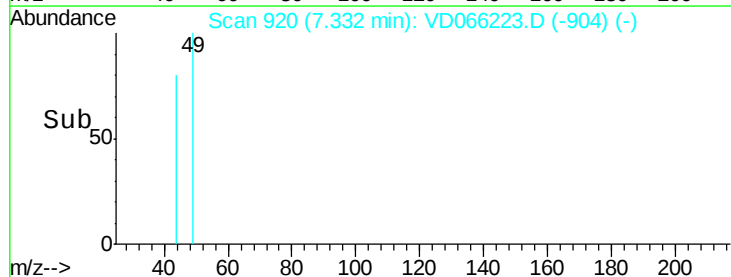
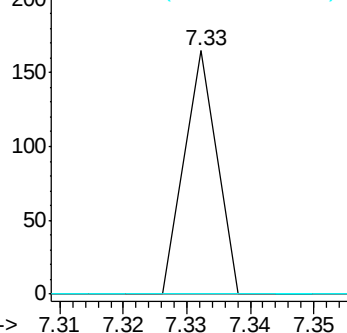
130 0.0 73.8 110.6#

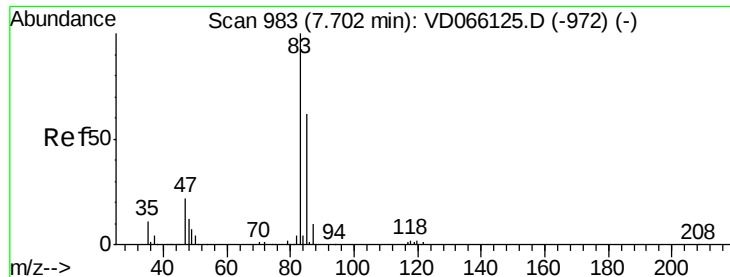


Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

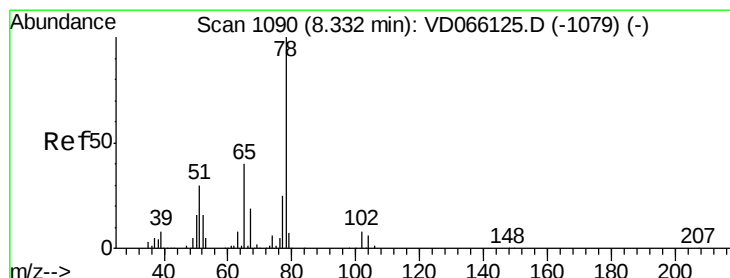
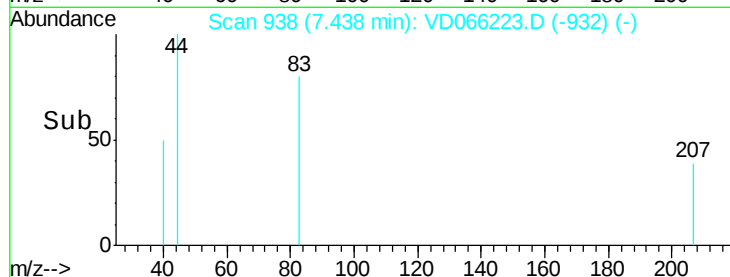
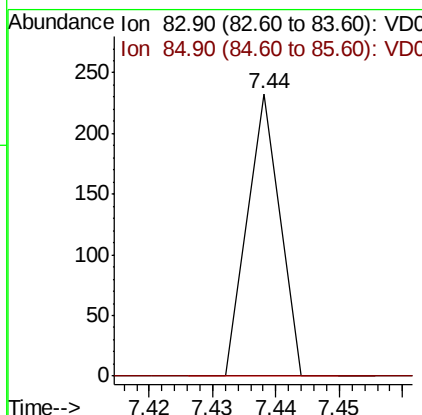
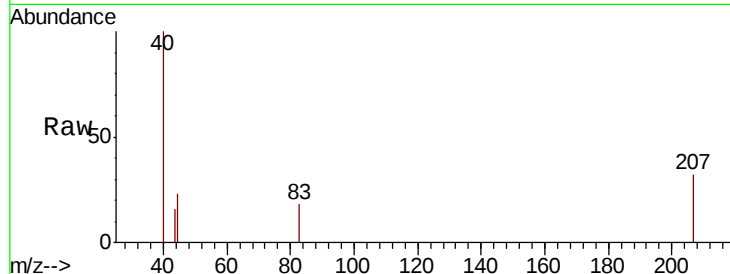




#30
Chloroform
Concen: 1.091 ug/l
RT: 7.44 min Scan# 938
Delta R.T. -0.26 min
Lab File: VD066223.D
Acq: 13 Aug 2020 21:09

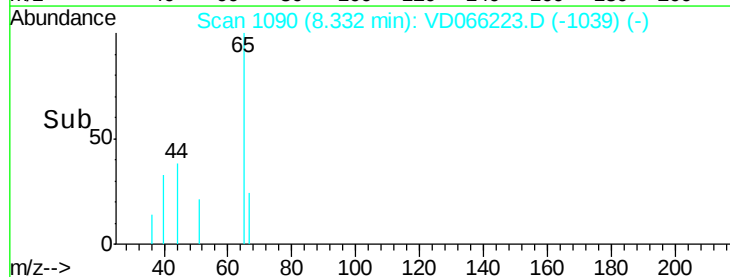
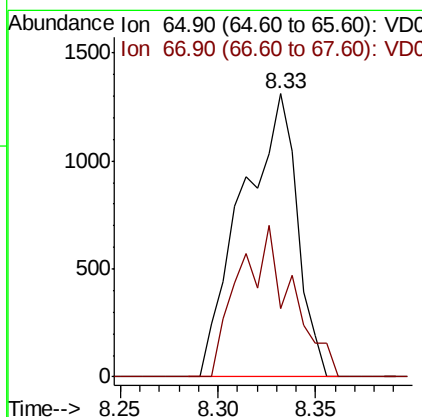
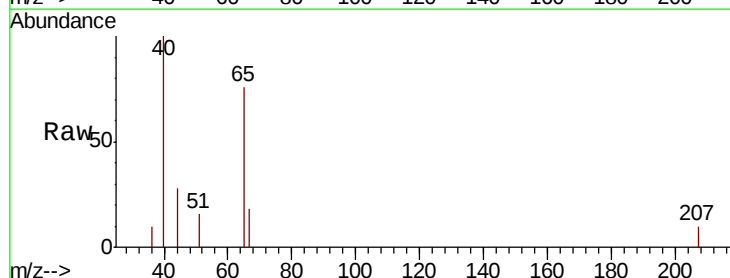
Instrument :
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TR-04-081220

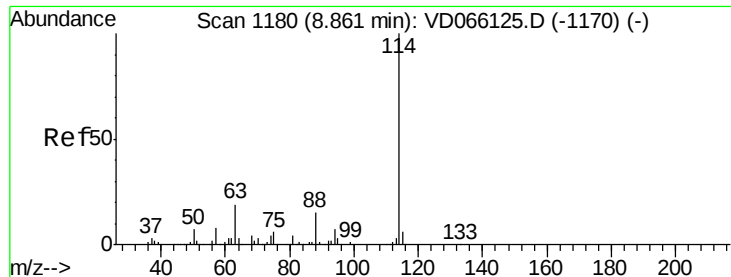
Tot Ion: 83 Resp: 82
Ion Ratio Lower Upper
83 100
85 0.0 49.5 74.3#



#33
1,2-Dichloroethane-d4
Concen: 65.762 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VD066223.D
Acq: 13 Aug 2020 21:09

Tgt Ion: 65 Resp: 2558
Ion Ratio Lower Upper
65 100
67 23.3 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VD066223.D

Acq: 13 Aug 2020 21:09

Instrument :

MSVOA_D

ClientSampleId :

TR-04-081220

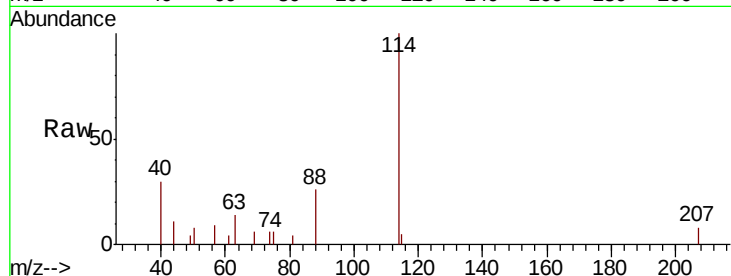
Tot Ion:114 Resp: 6740

Ion Ratio Lower Upper

114 100

63 13.8 0.0 38.6

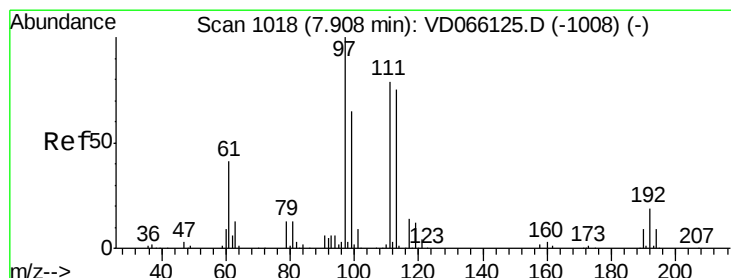
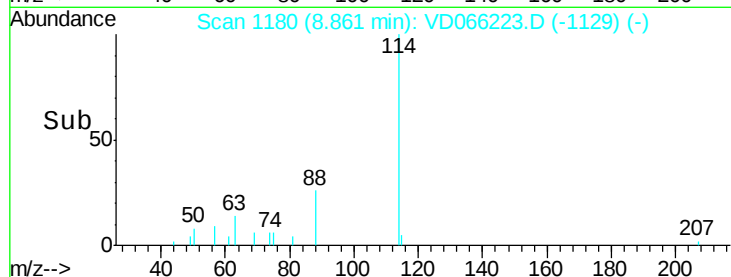
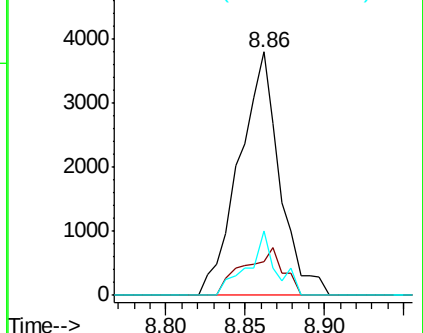
88 26.3 0.0 30.0



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: 26.395 ug/l

RT: 7.90 min Scan# 1017

Delta R.T. -0.01 min

Lab File: VD066223.D

Acq: 13 Aug 2020 21:09

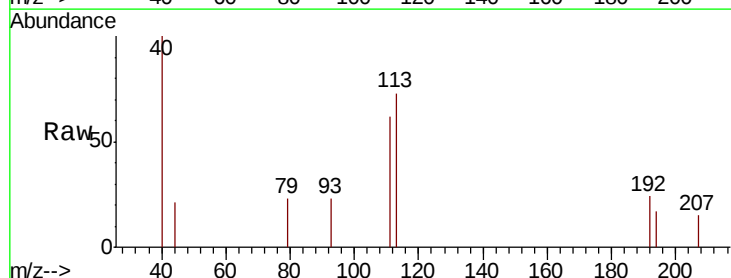
Tgt Ion:113 Resp: 1127

Ion Ratio Lower Upper

113 100

111 168.9 80.7 121.1#

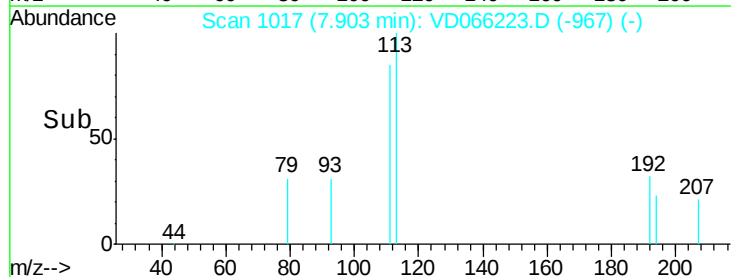
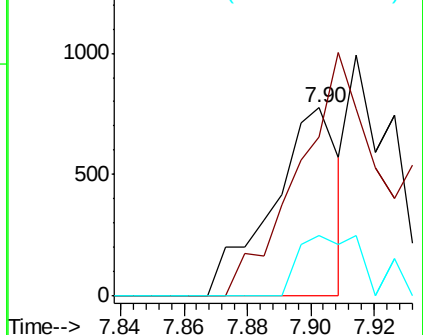
192 33.8 18.4 27.6#

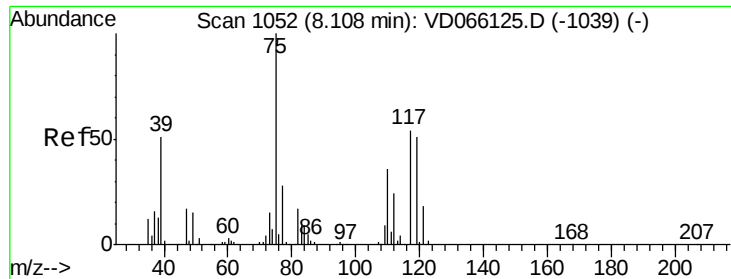


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 1.800 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.13 min

Lab File: VD066223.D

Acq: 13 Aug 2020 21:09

Instrument :

MSVOA_D

ClientSampleId :

TR-04-081220

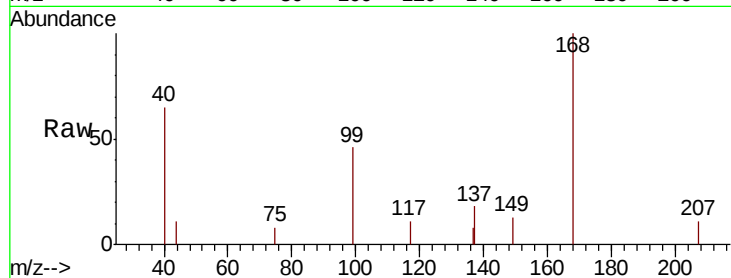
Tot Ion: 75 Resp: 114

Ion Ratio Lower Upper

75 100

110 0.0 18.8 56.3#

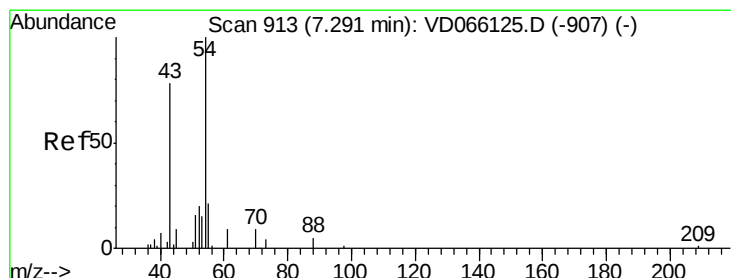
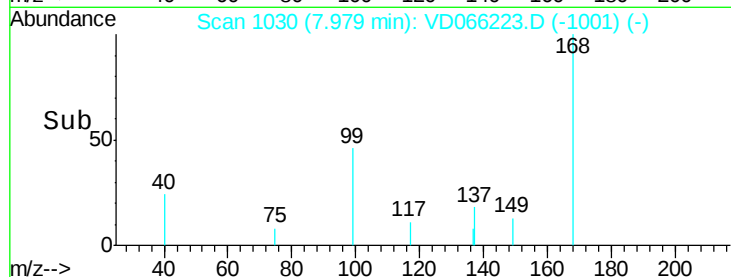
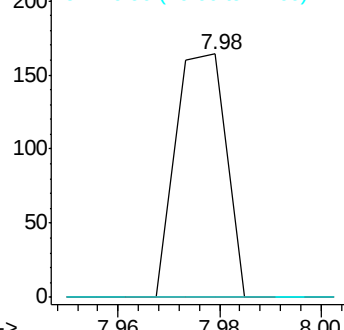
77 0.0 24.2 36.2#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.90 (76.60 to 77.60): VDC



#37

Ethyl Acetate

Concen: 2.351 ug/l

RT: 7.09 min Scan# 878

Delta R.T. -0.21 min

Lab File: VD066223.D

Acq: 13 Aug 2020 21:09

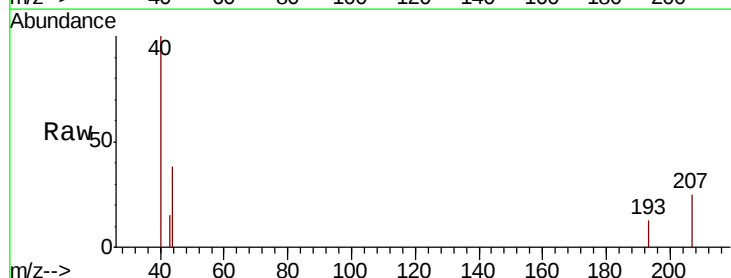
Tgt Ion: 43 Resp: 59

Ion Ratio Lower Upper

43 100

61 0.0 12.0 18.0#

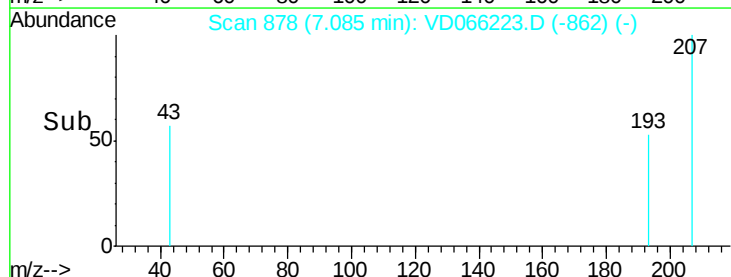
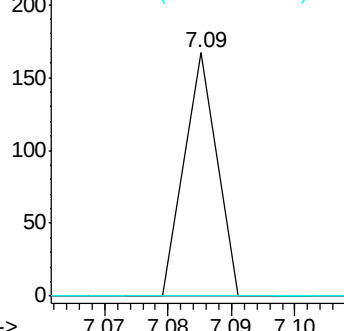
70 0.0 9.7 14.5#

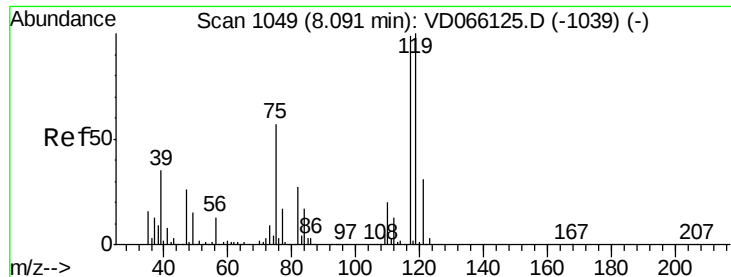


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 3.794 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.12 min

Lab File: VD066223.D

Acq: 13 Aug 2020 21:09

Instrument :

MSVOA_D

ClientSampleId :

TR-04-081220

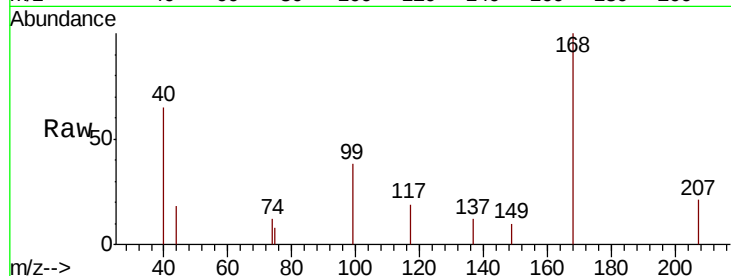
Tot Ion:117 Resp: 268

Ion Ratio Lower Upper

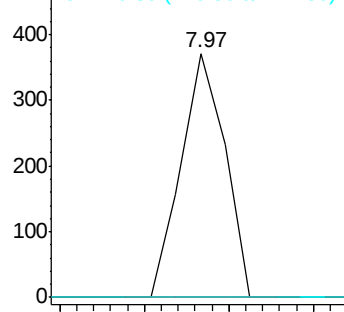
117 100

119 0.0 81.0 121.4#

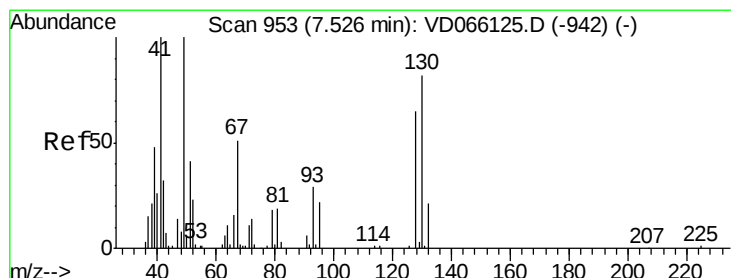
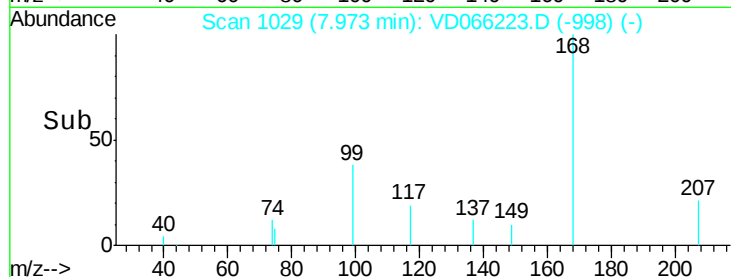
121 0.0 24.8 37.2#



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



Time--> 7.94 7.96 7.98 8.00



#41

Methacrylonitrile

Concen: 3.795 ug/l

RT: 7.66 min Scan# 976

Delta R.T. 0.14 min

Lab File: VD066223.D

Acq: 13 Aug 2020 21:09

Tgt Ion: 41 Resp: 56

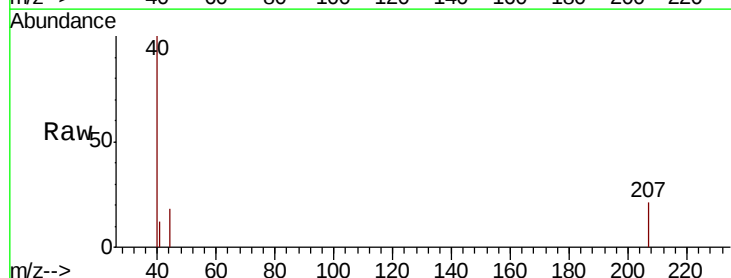
Ion Ratio Lower Upper

41 100

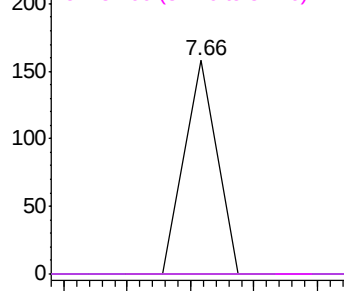
39 0.0 47.5 71.3#

67 0.0 59.1 88.7#

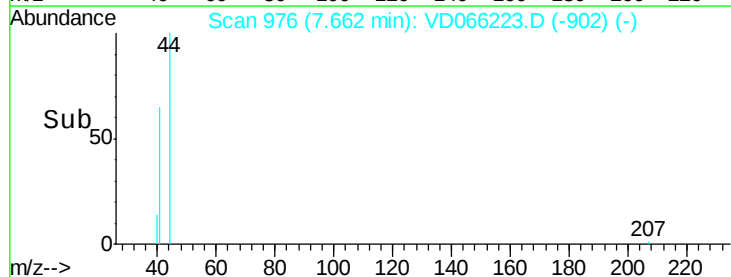
52 0.0 25.4 38.0#

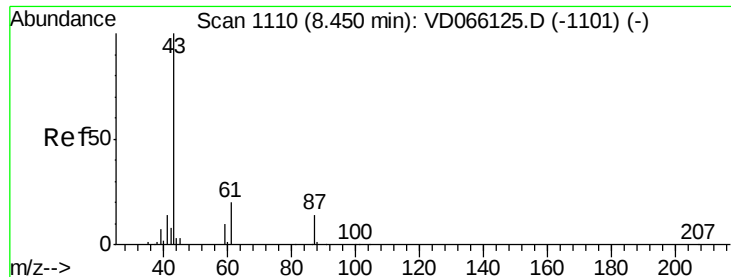


Abundance Ion 41.00 (40.70 to 41.70): VDC
Ion 39.00 (38.70 to 39.70): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC



Time--> 7.64 7.65 7.66 7.67 7.68





#43

Isopropyl Acetate

Concen: 1.375 ug/l

RT: 8.21 min Scan# 1069

Delta R.T. -0.24 min

Lab File: VD066223.D

Acq: 13 Aug 2020 21:09

Instrument :

MSVOA_D

ClientSampleId :

TR-04-081220

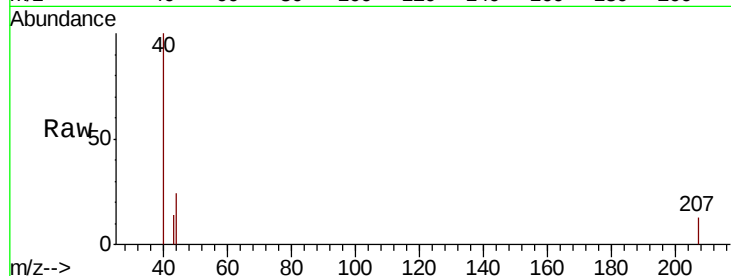
Tot Ion: 43 Resp: 68

Ion Ratio Lower Upper

43 100

61 0.0 25.5 38.3#

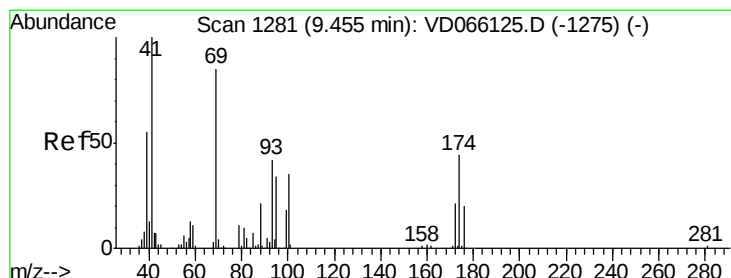
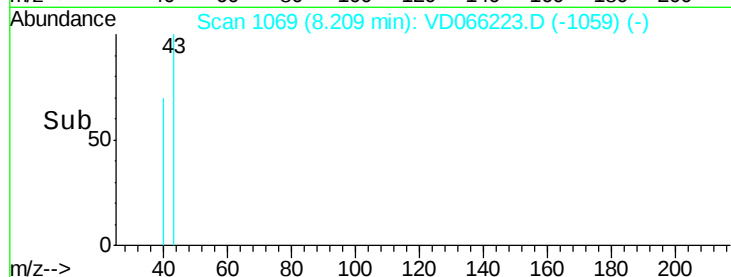
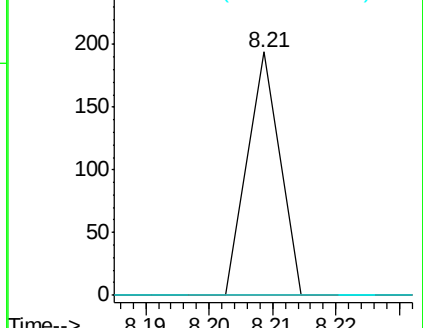
87 0.0 11.2 16.8#



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



#48

Methyl methacrylate

Concen: 2.139 ug/l

RT: 9.41 min Scan# 1273

Delta R.T. -0.05 min

Lab File: VD066223.D

Acq: 13 Aug 2020 21:09

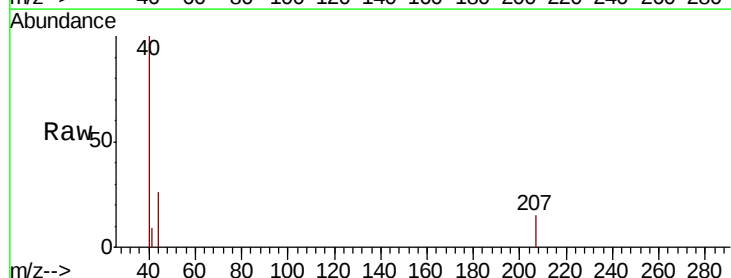
Tgt Ion: 41 Resp: 54

Ion Ratio Lower Upper

41 100

69 0.0 63.9 95.9#

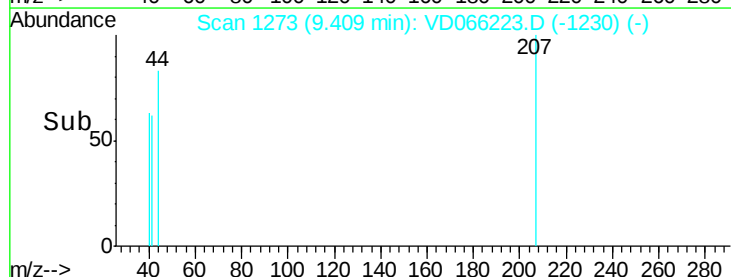
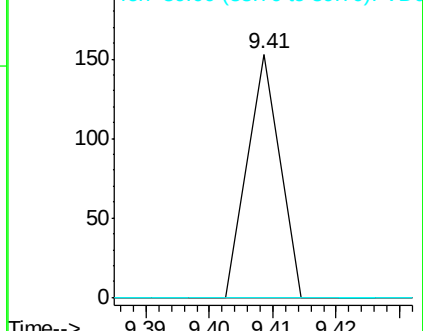
39 0.0 42.6 64.0#

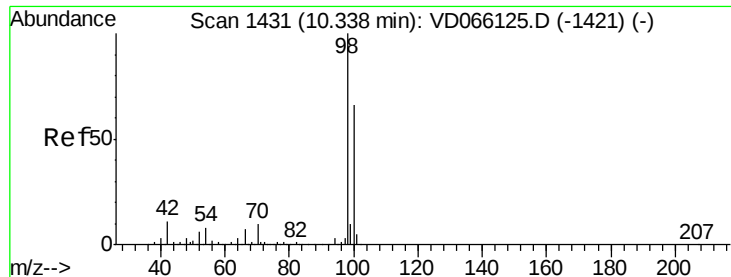


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 39.00 (38.70 to 39.70): VDC





#50

Toluene-d8

Concen: 47.492 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD066223.D

Acq: 13 Aug 2020 21:09

Instrument :

MSVOA_D

ClientSampleId :

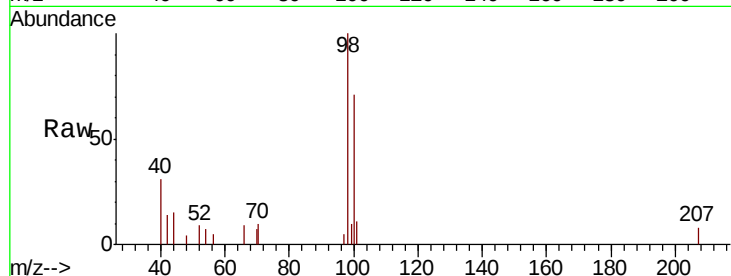
TR-04-081220

Tot Ion: 98 Resp: 7483

Ion Ratio Lower Upper

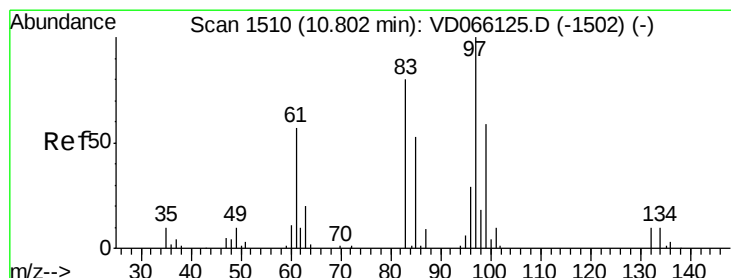
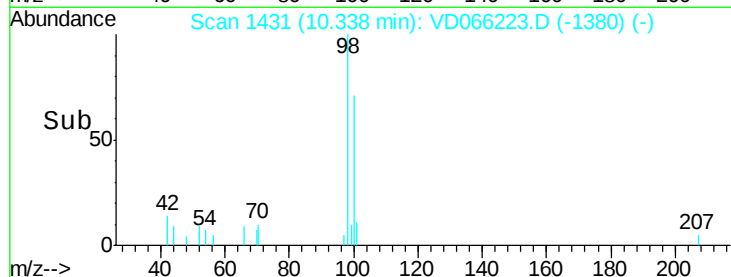
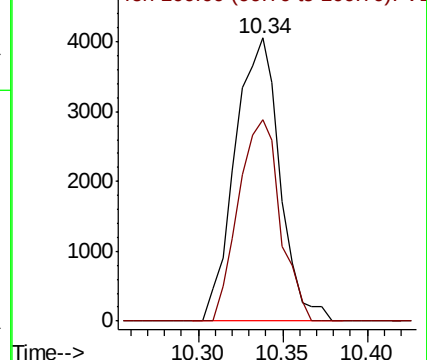
98 100

100 66.4 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#55

1,1,2-Trichloroethane

Concen: 1.702 ug/l

RT: 10.82 min Scan# 1513

Delta R.T. 0.02 min

Lab File: VD066223.D

Acq: 13 Aug 2020 21:09

Tgt Ion: 97 Resp: 58

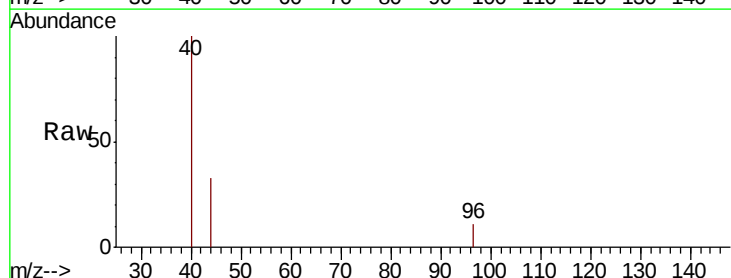
Ion Ratio Lower Upper

97 100

83 0.0 63.9 95.9#

85 0.0 42.5 63.7#

99 0.0 47.4 71.0#

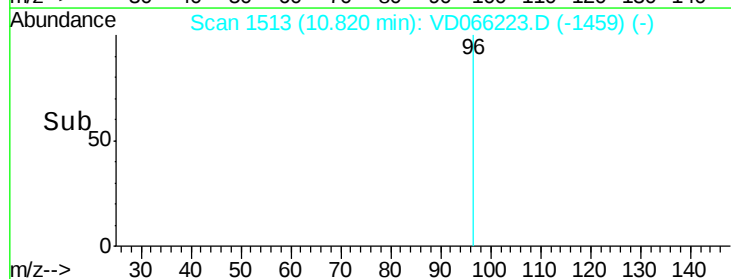
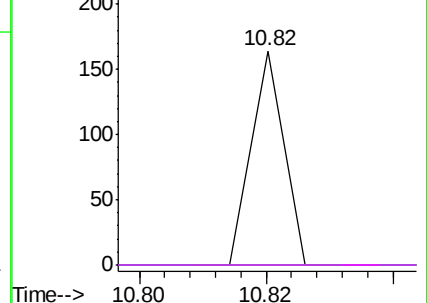


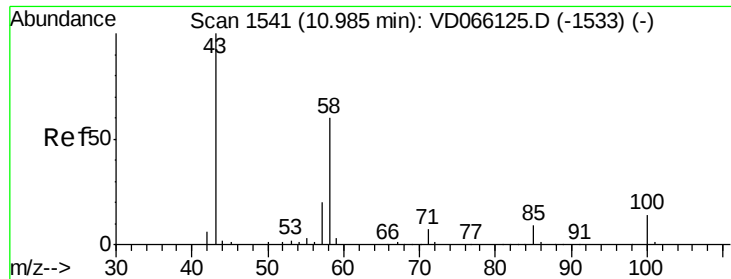
Abundance Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC





#59

2-Hexanone

Concen: 3.030 ug/l

RT: 11.07 min Scan# 1555

Delta R.T. 0.08 min

Lab File: VD066223.D

Acq: 13 Aug 2020 21:09

Instrument :

MSVOA_D

ClientSampleId :

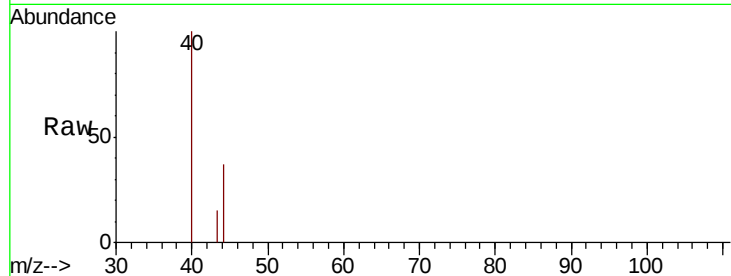
TR-04-081220

Tot Ion: 43 Resp: 54

Ion Ratio Lower Upper

43 100

58 0.0 27.8 83.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

11.07

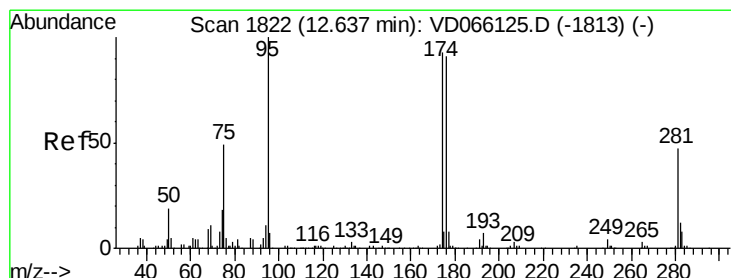
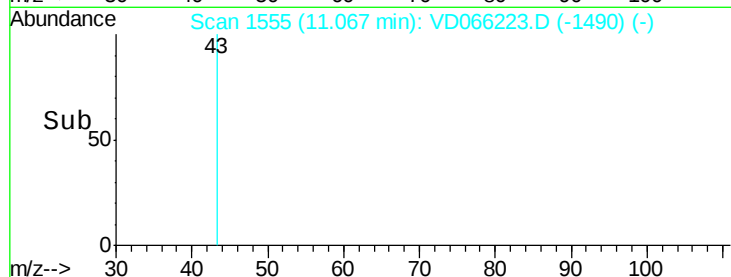
150

100

50

0

Time-->



#62

4-Bromofluorobenzene

Concen: 74.231 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.01 min

Lab File: VD066223.D

Acq: 13 Aug 2020 21:09

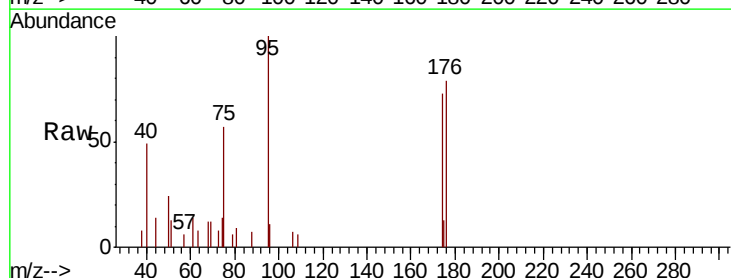
Tgt Ion: 95 Resp: 4216

Ion Ratio Lower Upper

95 100

174 77.5 0.0 180.8

176 82.6 0.0 181.2



Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

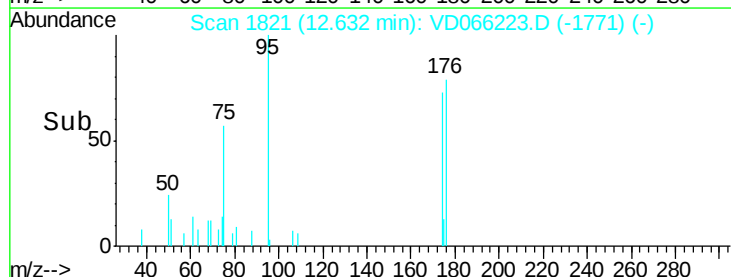
3000

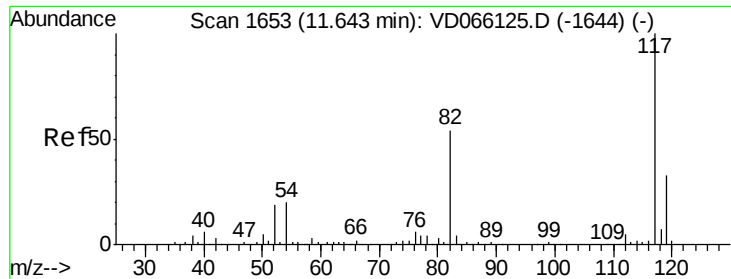
2000

1000

0

Time-->

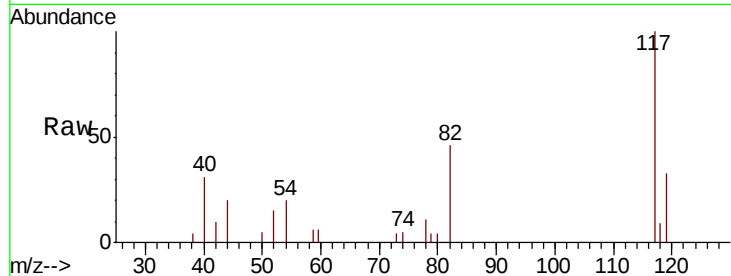




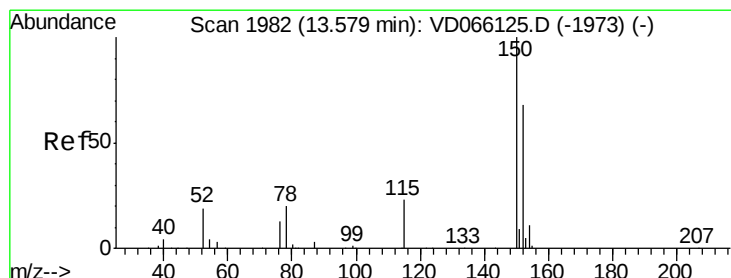
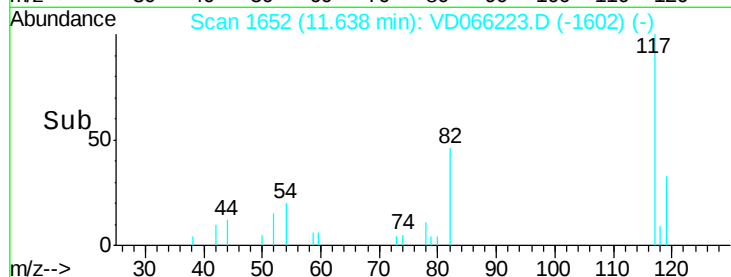
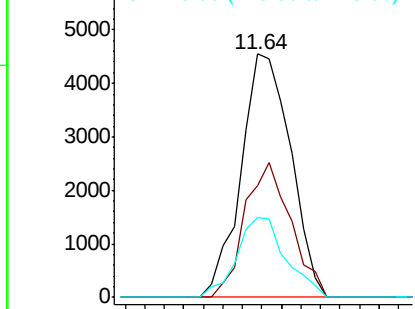
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1652
Delta R.T. -0.01 min
Lab File: VD066223.D
Acq: 13 Aug 2020 21:09

Instrument :
MSVOA_D
ClientSampleId :
TR-04-081220

Tot Ion:117 Resp: 8009
Ion Ratio Lower Upper
117 100
82 45.9 43.0 64.4
119 32.9 26.1 39.1

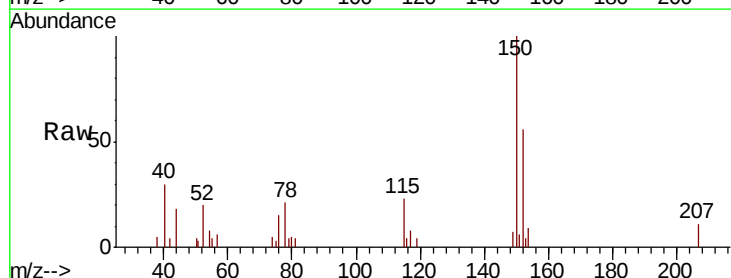


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

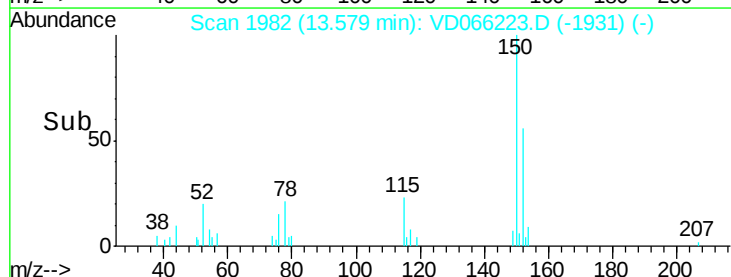
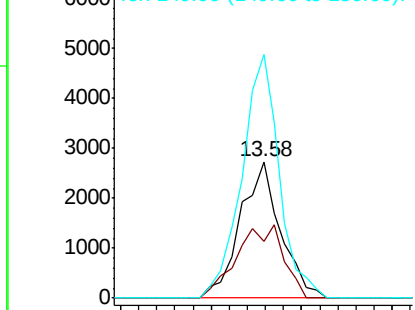


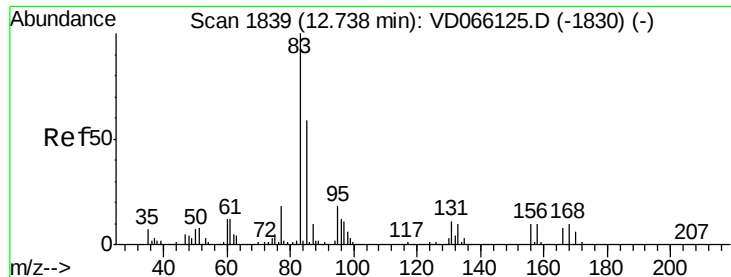
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VD066223.D
Acq: 13 Aug 2020 21:09

Tgt Ion:152 Resp: 4222
Ion Ratio Lower Upper
152 100
115 61.7 28.0 83.9
150 166.0 0.0 346.4



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





#75

1,1,2,2-Tetrachloroethane

Concen: 1.249 ug/l

RT: 12.58 min Scan# 1813

Delta R.T. -0.15 min

Lab File: VD066223.D

Acq: 13 Aug 2020 21:09

Instrument :

MSVOA_D

ClientSampleId :

TR-04-081220

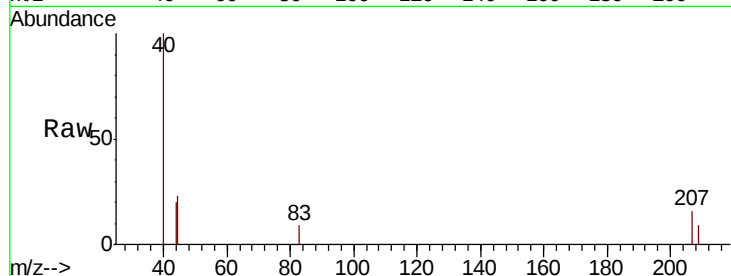
Tot Ion: 83 Resp: 60

Ion Ratio Lower Upper

83 100

131 0.0 6.2 18.6#

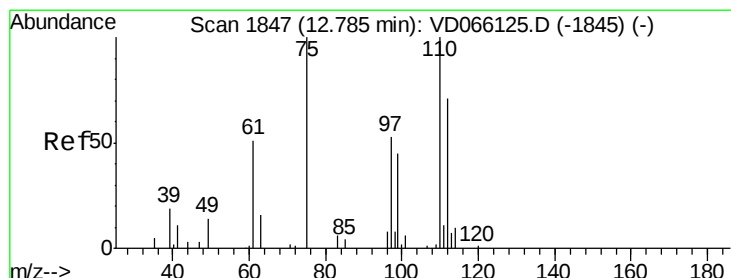
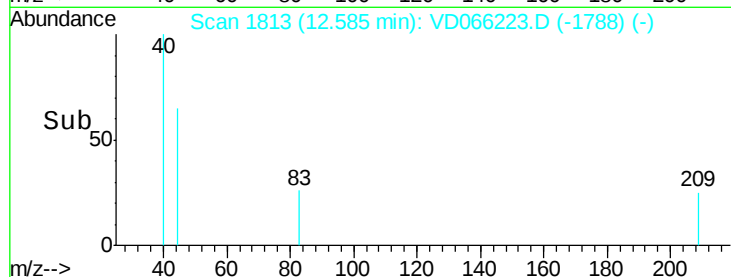
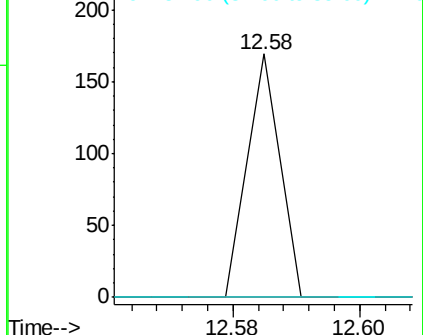
85 0.0 32.4 97.2#



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 130.80 (130.50 to 131.50): VDC

Ion 84.90 (84.60 to 85.60): VDC



#76

1,2,3-Trichloropropane

Concen: 52.800 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066223.D

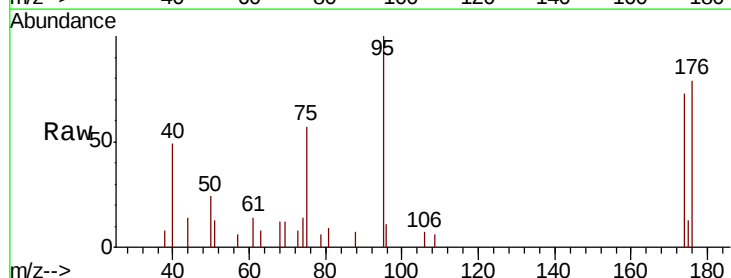
Acq: 13 Aug 2020 21:09

Tgt Ion: 75 Resp: 1859

Ion Ratio Lower Upper

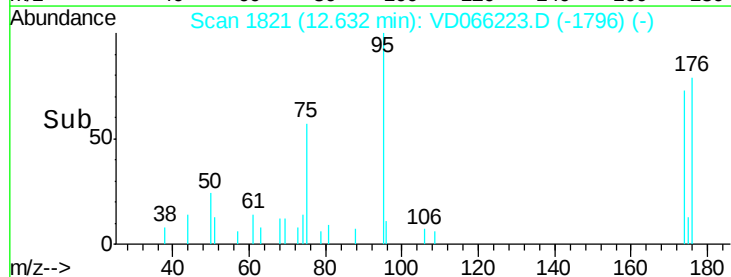
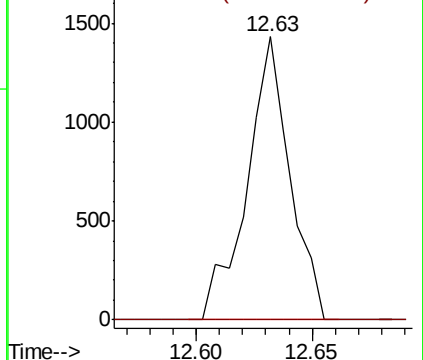
75 100

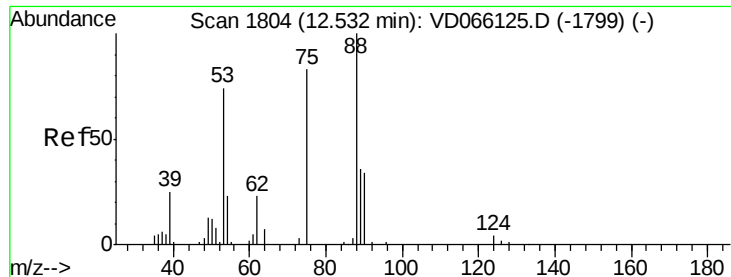
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 116.717 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066223.D

Acq: 13 Aug 2020 21:09

Instrument :

MSVOA_D

ClientSampleId :

TR-04-081220

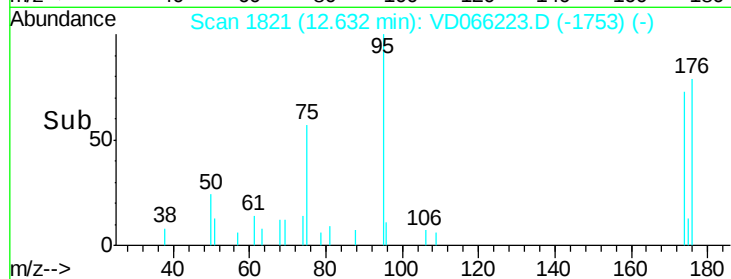
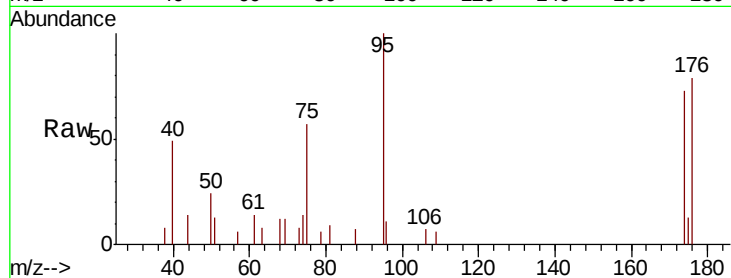
Tot Ion: 75 Resp: 1859

Ion Ratio Lower Upper

75 100

53 0.0 73.4 110.2#

89 0.0 36.6 55.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

