

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092920\
 Data File : VD066941.D
 Acq On : 29 Sep 2020 16:19
 Operator : VA/SY
 Sample : L4172-10
 Misc : 5.07G/5.00ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 B-7(12-14)

Quant Time: Sep 30 02:37:05 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	7.97	168	9147	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	14848	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	16282	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	7569	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.32	65	7290	81.43	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	162.86%	
35) Dibromofluoromethane	7.90	113	3713	39.31	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	78.62%	
50) Toluene-d8	10.34	98	16889	52.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.94%	
62) 4-Bromofluorobenzene	12.64	95	7046	63.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	127.90%	

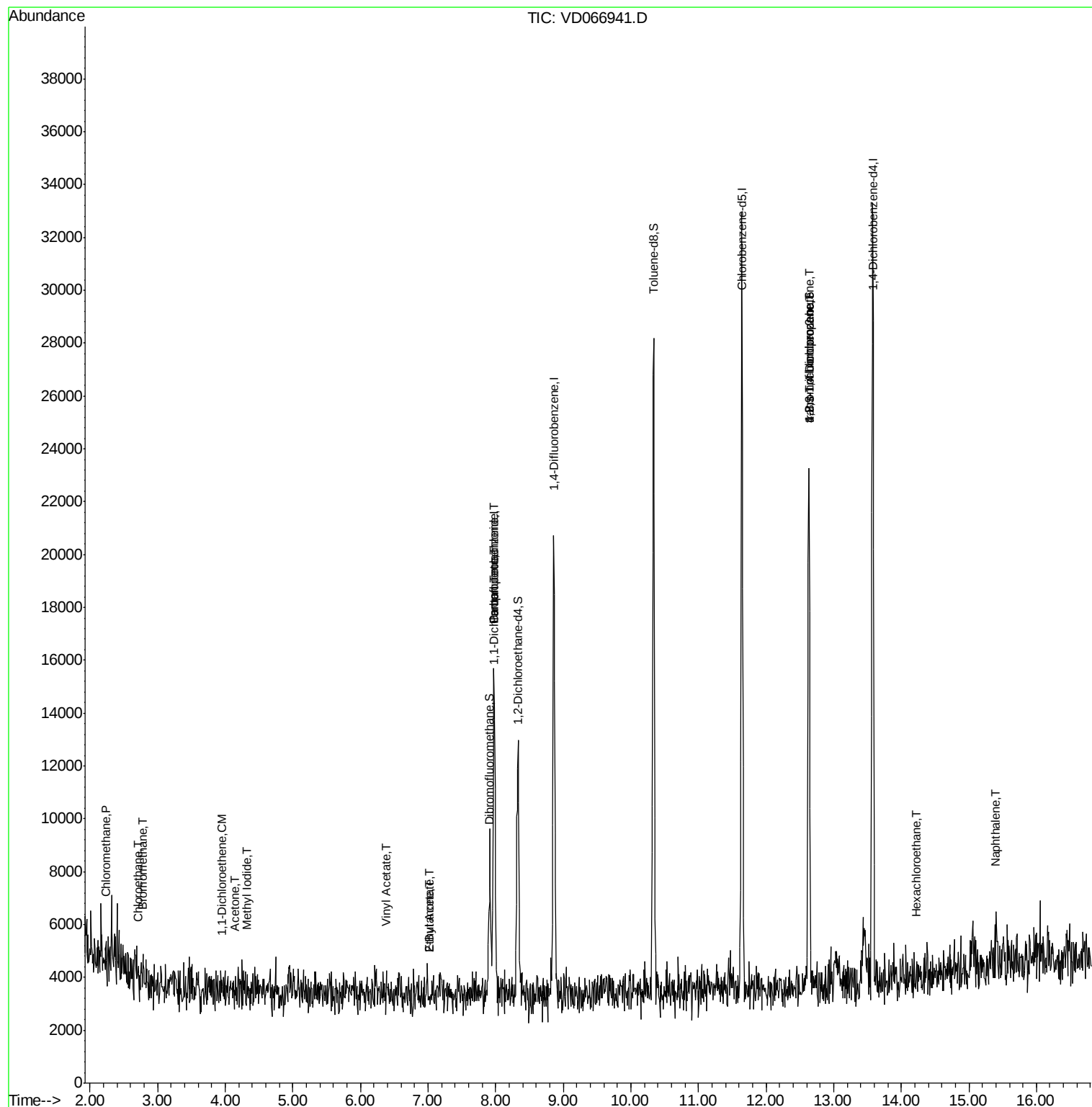
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.24	50	86	1.023	ug/l #	43
5) Bromomethane	2.78	94	341	5.843	ug/l	93
6) Chloroethane	2.71	64	64	1.241	ug/l #	46
10) Methyl Iodide	4.32	142	137	1.570	ug/l #	36
12) 1,1-Dichloroethene	3.95	96	125	1.396	ug/l #	1
16) Acetone	4.15	43	344	18.113	ug/l #	43
18) Methyl Acetate	4.71	43	69	Below Cal	#	50
20) Methylene Chloride	4.97	84	194	Below Cal	#	7
23) Vinyl Acetate	6.38	43	54	3.036	ug/l #	71
25) 2-Butanone	7.03	43	54	2.366	ug/l #	46
36) 1,1-Dichloropropene	7.98	75	683	4.637	ug/l #	41
37) Ethyl Acetate	7.03	43	54	1.014	ug/l #	70
38) Carbon Tetrachloride	7.98	117	767	4.763	ug/l #	12
76) 1,2,3-Trichloropropane	12.64	75	3622	57.743	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	3622	144.469	ug/l #	10
90) Hexachloroethane	14.23	117	148	1.475	ug/l #	16
95) Naphthalene	15.40	128	2293	9.926	ug/l #	86

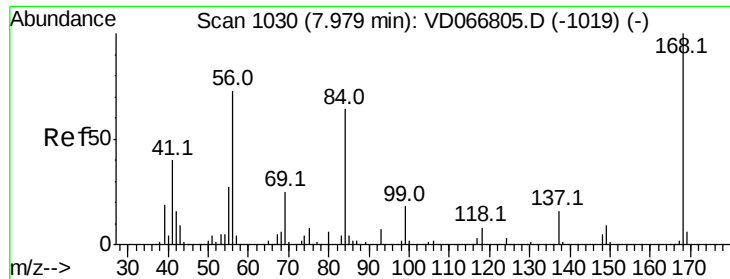
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD066941.D

Acq: 29 Sep 2020 16:19

Instrument :

MSVOA_D

ClientSampleId :

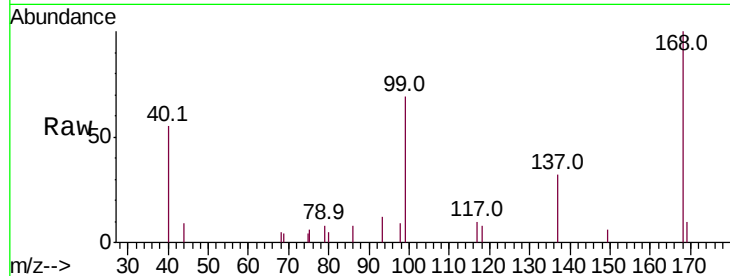
B-7(12-14)

Tot Ion:168 Resp: 9147

Ion Ratio Lower Upper

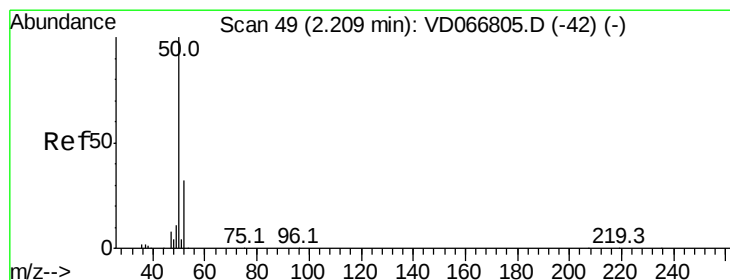
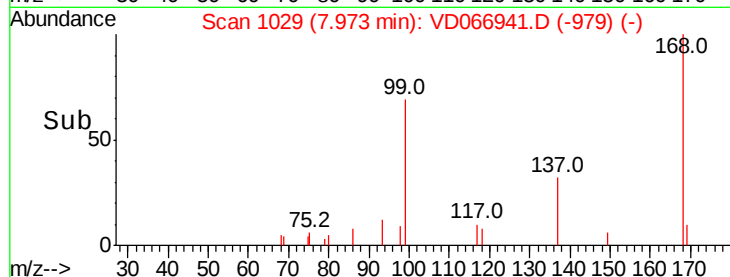
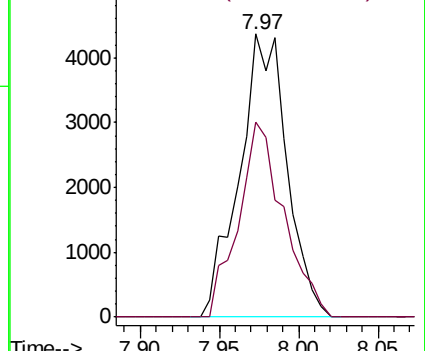
168 100

99 68.8 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: 1.023 ug/l

RT: 2.24 min Scan# 54

Delta R.T. 0.03 min

Lab File: VD066941.D

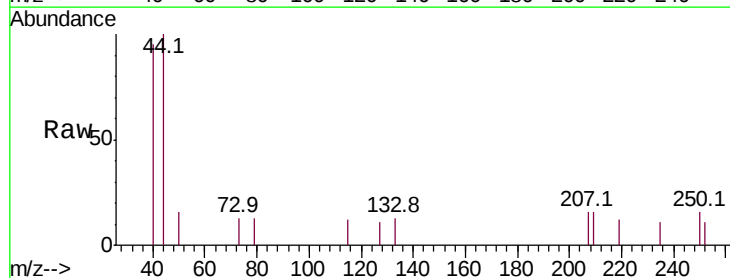
Acq: 29 Sep 2020 16:19

Tgt Ion: 50 Resp: 86

Ion Ratio Lower Upper

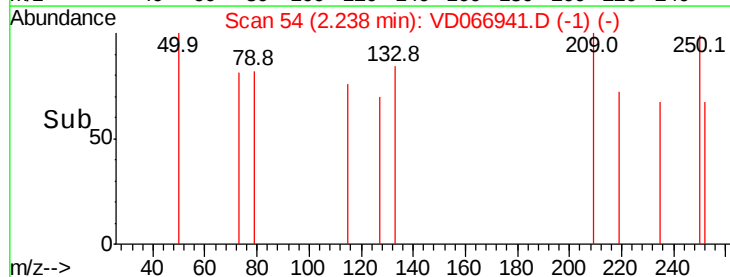
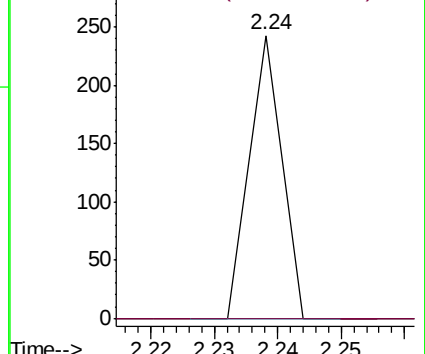
50 100

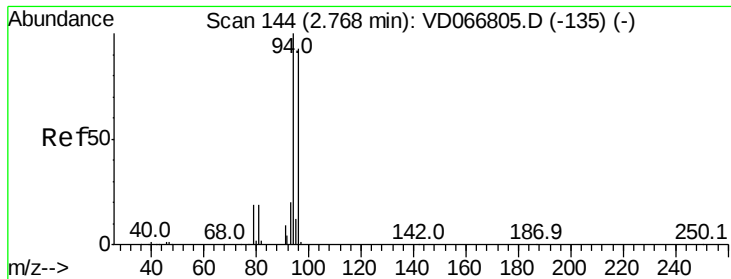
52 0.0 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 5.843 ug/l

RT: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD066941.D

Acq: 29 Sep 2020 16:19

Instrument :

MSVOA_D

ClientSampleId :

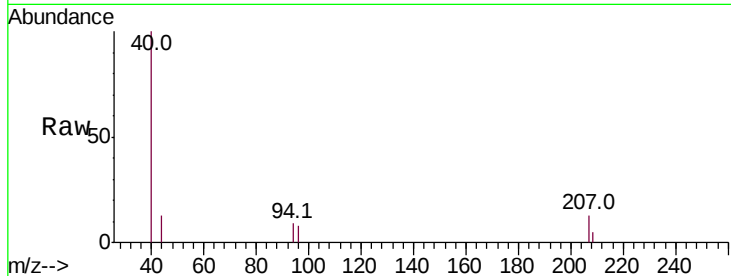
B-7(12-14)

Tot Ion: 94 Resp: 341

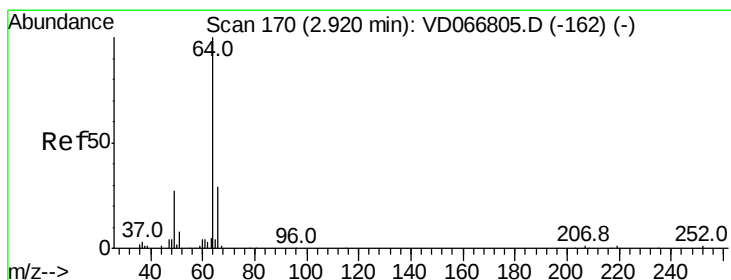
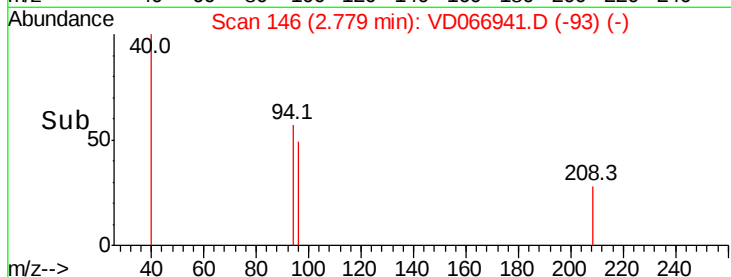
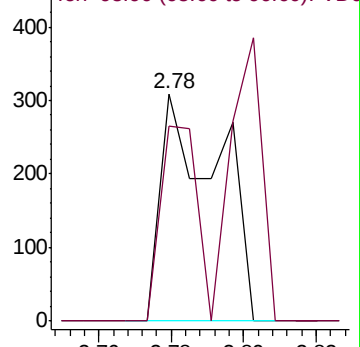
Ion Ratio Lower Upper

94 100

96 85.8 74.3 111.5



Abundance Ion 93.90 (93.60 to 94.60): VDC



#6

Chloroethane

Concen: 1.241 ug/l

RT: 2.71 min Scan# 135

Delta R.T. -0.21 min

Lab File: VD066941.D

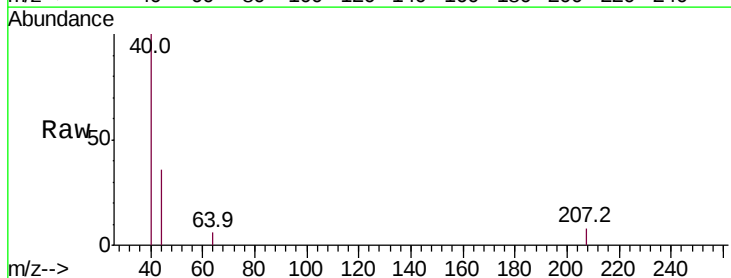
Acq: 29 Sep 2020 16:19

Tgt Ion: 64 Resp: 64

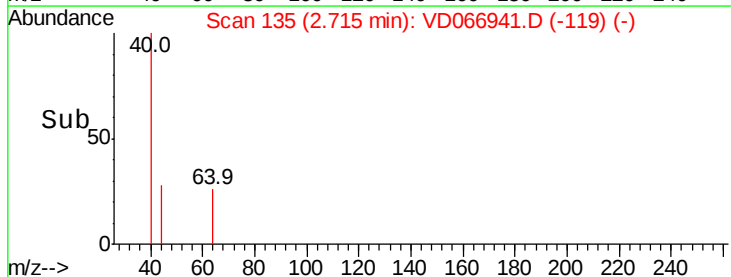
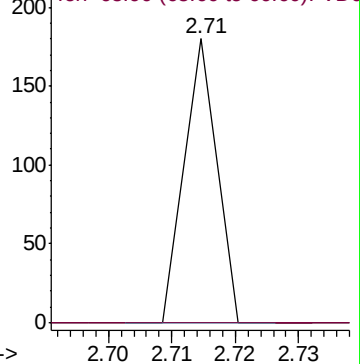
Ion Ratio Lower Upper

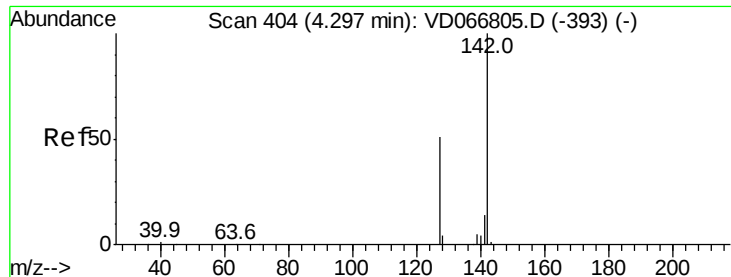
64 100

66 0.0 23.3 34.9#



Abundance Ion 63.90 (63.60 to 64.60): VDC





#10

Methyl Iodide

Concen: 1.570 ug/l

RT: 4.32 min Scan# 408

Delta R.T. 0.02 min

Lab File: VD066941.D

Acq: 29 Sep 2020 16:19

Instrument :

MSVOA_D

ClientSampleId :

B-7(12-14)

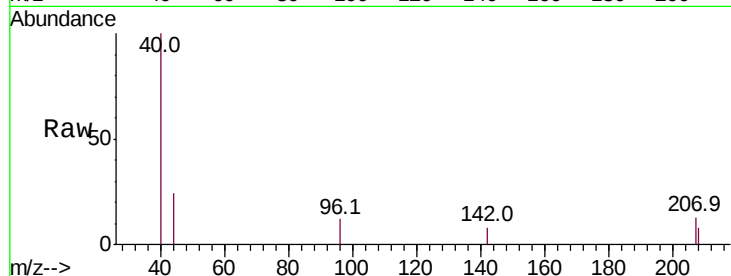
Tot Ion:142 Resp: 137

Ion Ratio Lower Upper

142 100

127 0.0 39.4 59.0#

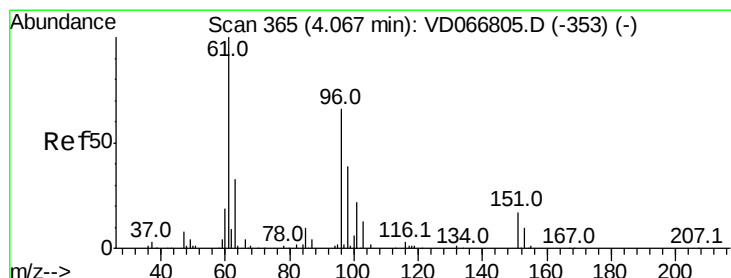
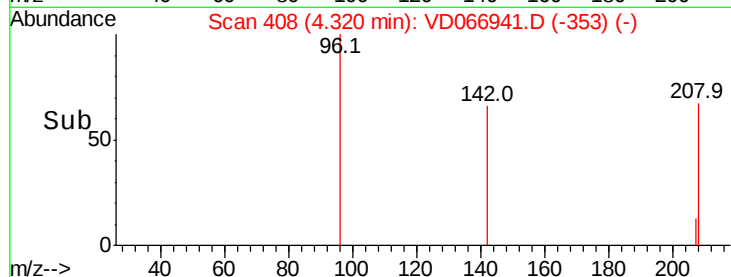
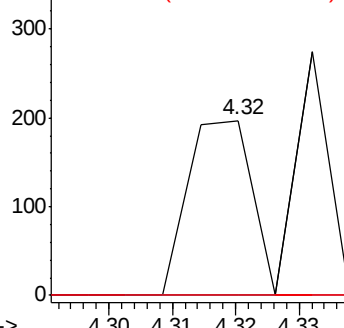
141 0.0 12.1 18.1#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#12

1,1-Dichloroethene

Concen: 1.396 ug/l

RT: 3.95 min Scan# 345

Delta R.T. -0.12 min

Lab File: VD066941.D

Acq: 29 Sep 2020 16:19

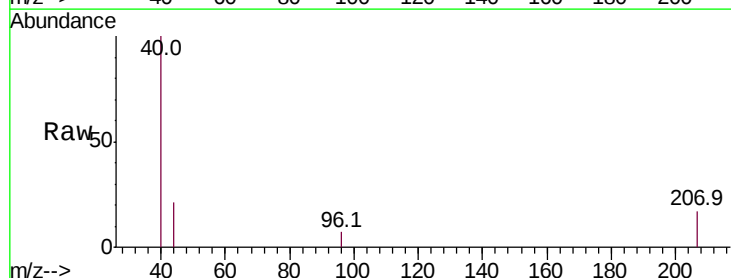
Tgt Ion: 96 Resp: 125

Ion Ratio Lower Upper

96 100

61 0.0 120.8 181.2#

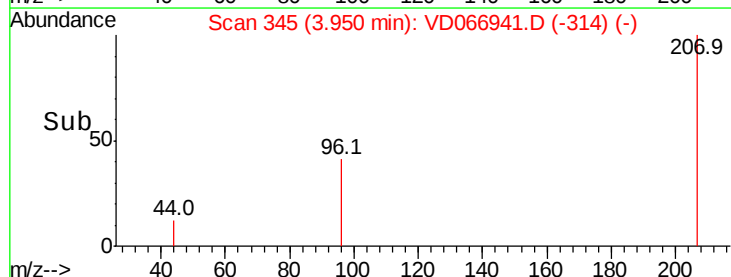
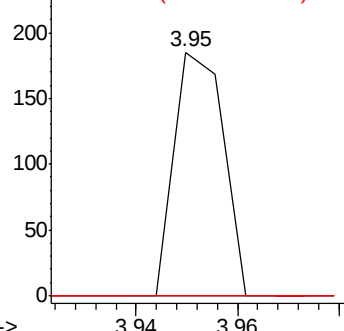
98 0.0 47.7 71.5#

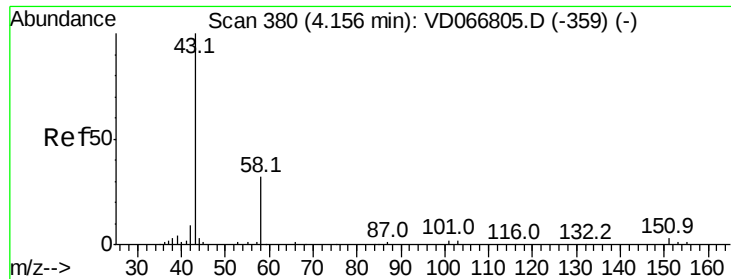


Abundance Ion 95.90 (95.60 to 96.60): V

Ion 60.90 (60.60 to 61.60): V

Ion 97.90 (97.60 to 98.60): V





#16

Acetone

Concen: 18.113 ug/l

RT: 4.15 min Scan# 379

Delta R.T. -0.01 min

Lab File: VD066941.D

Acq: 29 Sep 2020 16:19

Instrument :

MSVOA_D

ClientSampleId :

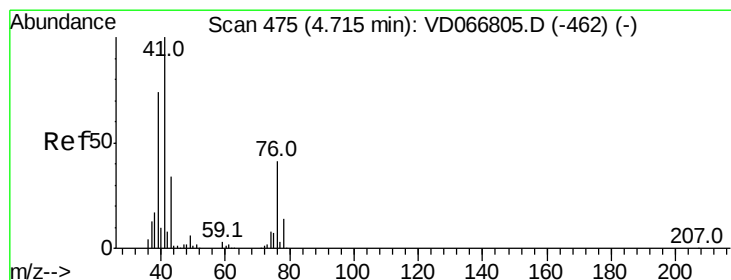
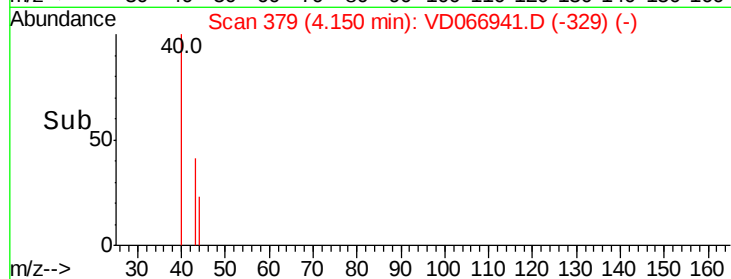
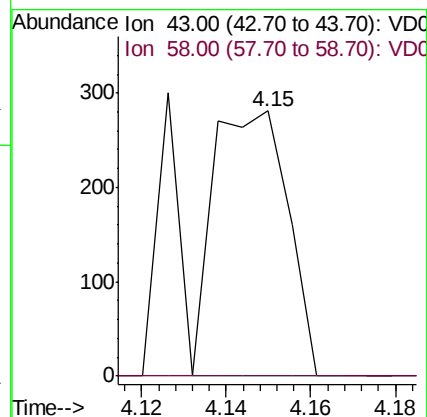
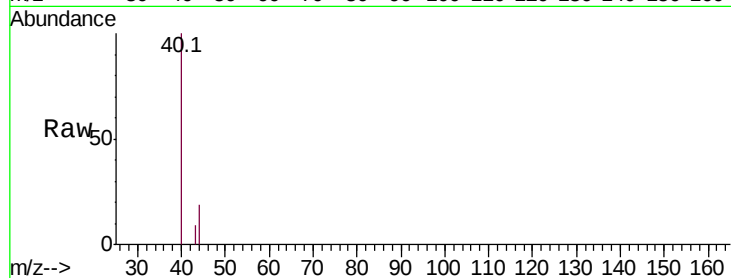
B-7(12-14)

Tot Ion: 43 Resp: 344

Ion Ratio Lower Upper

43 100

58 0.0 25.6 38.4#



#18

Methyl Acetate

Concen: Below Cal

RT: 4.71 min Scan# 474

Delta R.T. -0.01 min

Lab File: VD066941.D

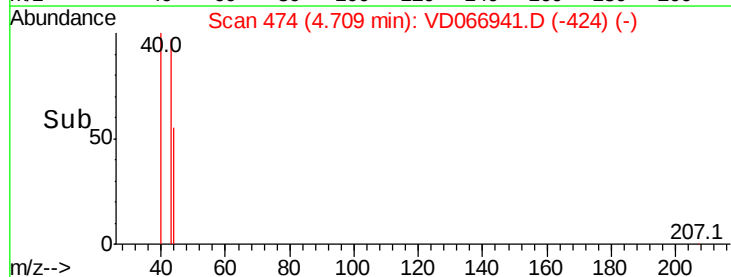
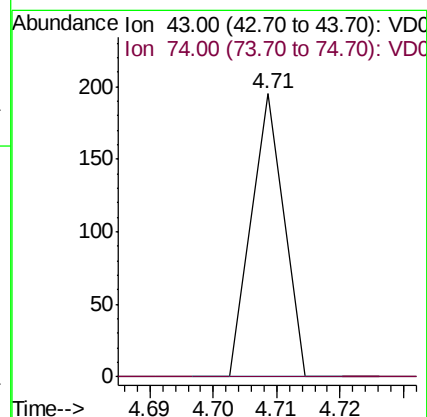
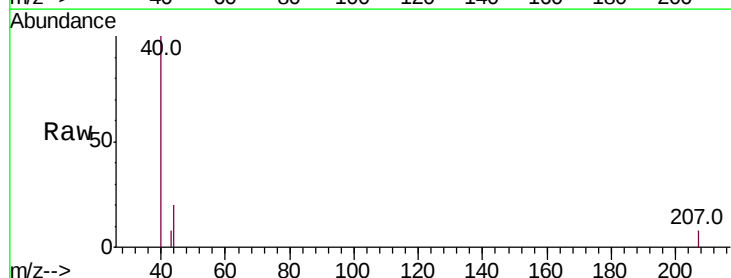
Acq: 29 Sep 2020 16:19

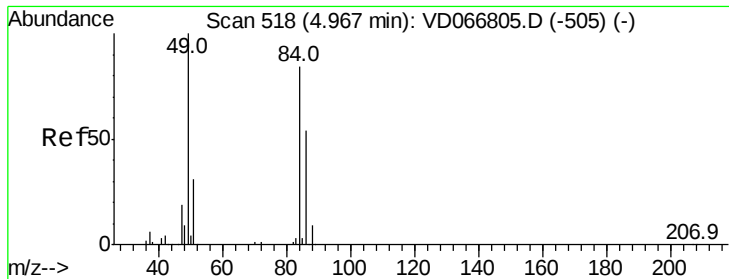
Tgt Ion: 43 Resp: 69

Ion Ratio Lower Upper

43 100

74 0.0 20.3 30.5#

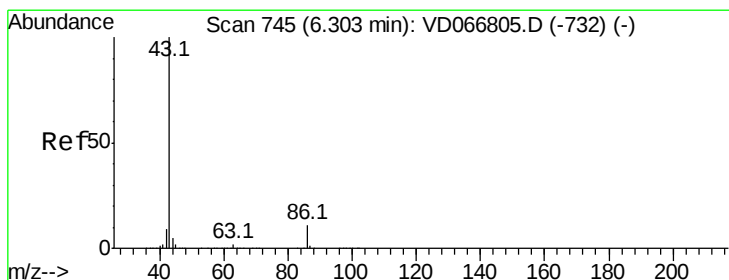
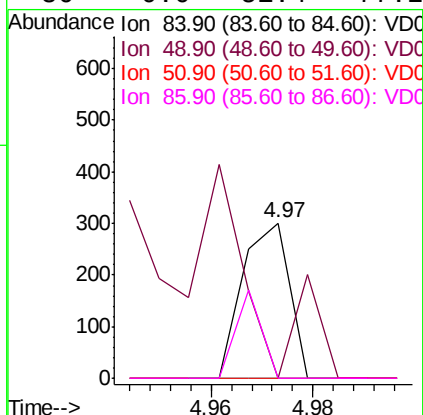
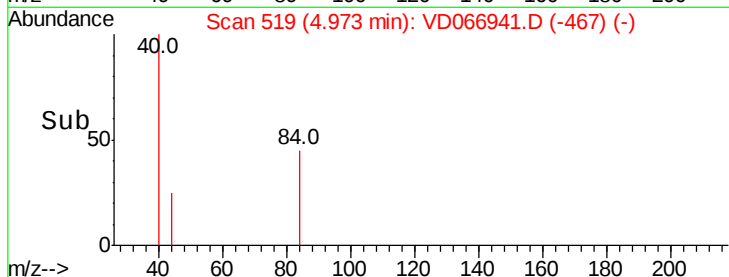
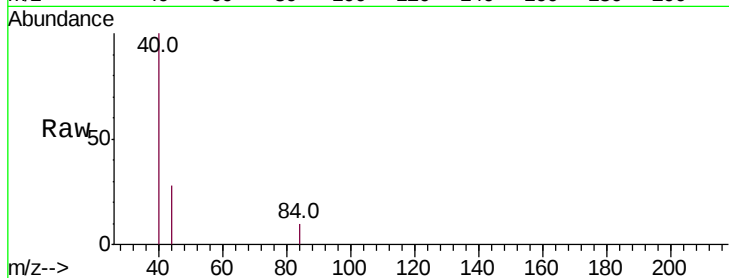




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 519
Delta R.T. 0.01 min
Lab File: VD066941.D
Acq: 29 Sep 2020 16:19

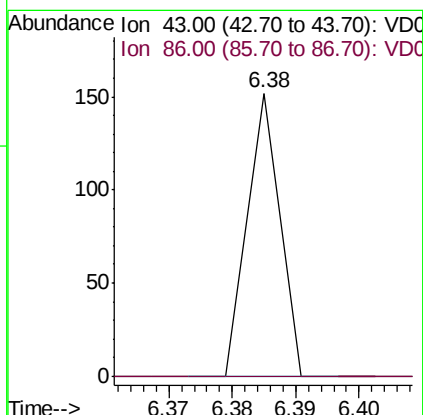
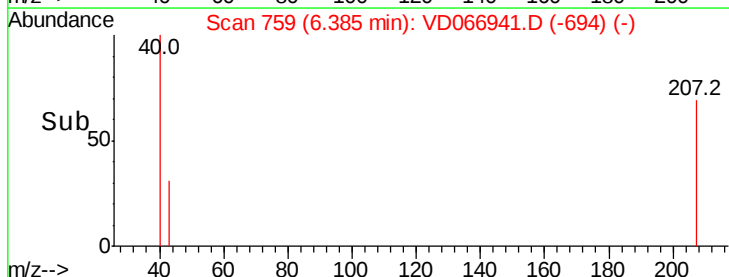
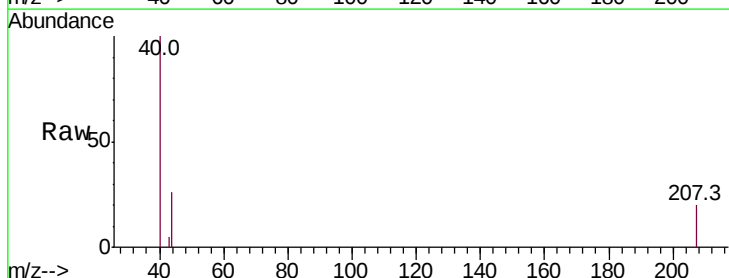
Instrument :
MSVOA_D
ClientSampleId :
B-7(12-14)

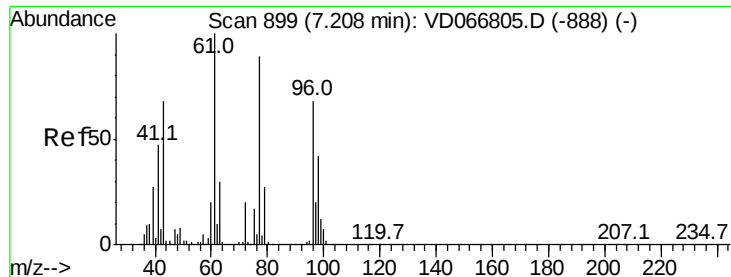
Tot Ion: 84 Resp: 194
Ion Ratio Lower Upper
84 100
49 0.0 95.4 143.2#
51 0.0 29.7 44.5#
86 0.0 51.4 77.2#



#23
Vinyl Acetate
Concen: 3.036 ug/l
RT: 6.38 min Scan# 759
Delta R.T. 0.08 min
Lab File: VD066941.D
Acq: 29 Sep 2020 16:19

Tgt Ion: 43 Resp: 54
Ion Ratio Lower Upper
43 100
86 0.0 8.9 13.3#





#25

2-Butanone

Concen: 2.366 ug/l

RT: 7.03 min Scan# 868

Delta R.T. -0.18 min

Lab File: VD066941.D

Acq: 29 Sep 2020 16:19

Instrument :

MSVOA_D

ClientSampleId :

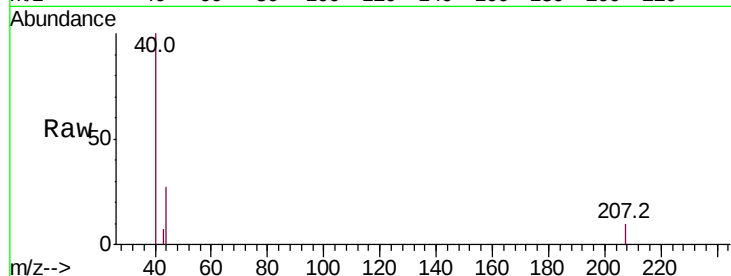
B-7(12-14)

Tot Ion: 43 Resp: 54

Ion Ratio Lower Upper

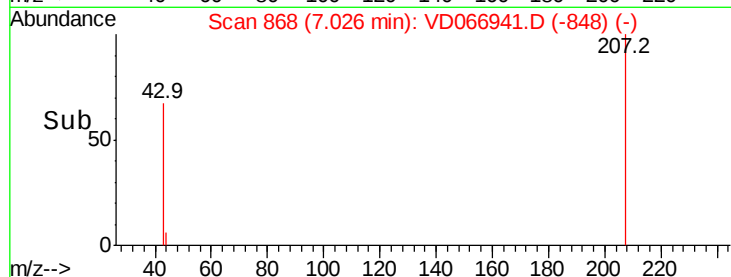
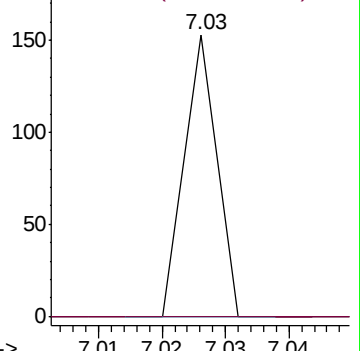
43 100

72 0.0 22.9 34.3#

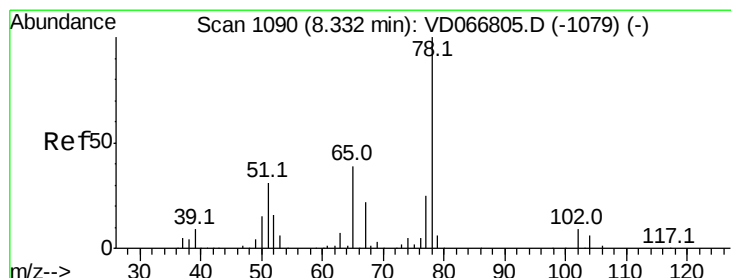


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



Time-->



#33

1,2-Dichloroethane-d4

Concen: 81.428 ug/l

RT: 8.32 min Scan# 1088

Delta R.T. -0.01 min

Lab File: VD066941.D

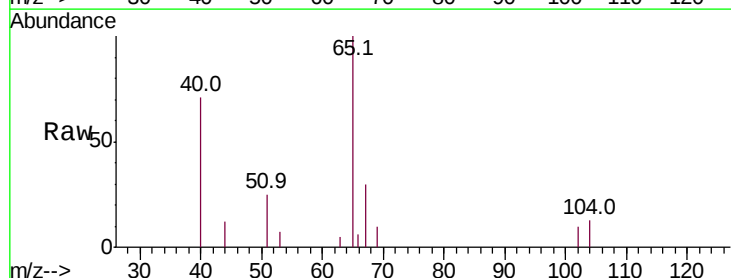
Acq: 29 Sep 2020 16:19

Tgt Ion: 65 Resp: 7290

Ion Ratio Lower Upper

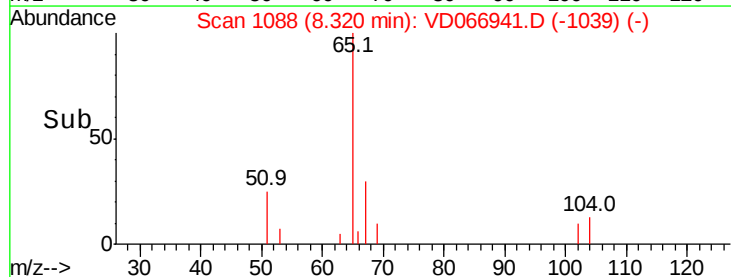
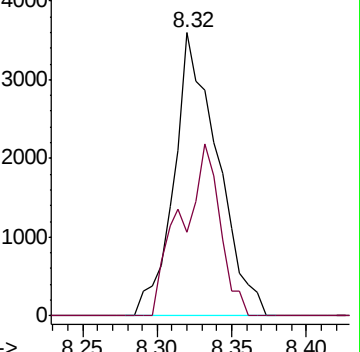
65 100

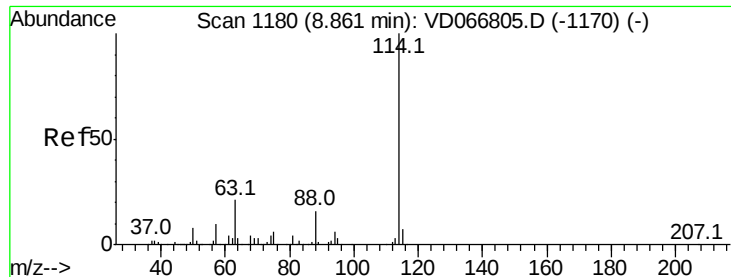
67 54.4 0.0 107.2



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: 8.87 min Scan# 1181

Delta R.T. 0.01 min

Lab File: VD066941.D

Acq: 29 Sep 2020 16:19

Instrument :

MSVOA_D

ClientSampleId :

B-7(12-14)

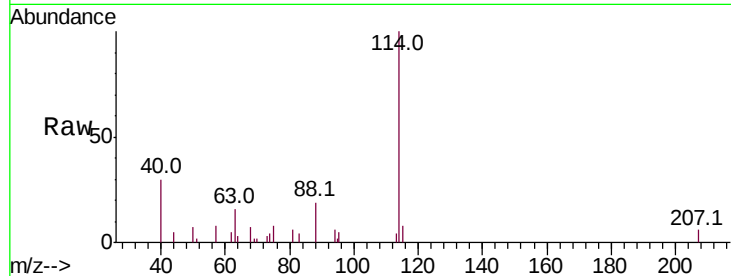
Tot Ion:114 Resp: 14848

Ion Ratio Lower Upper

114 100

63 16.0 0.0 42.6

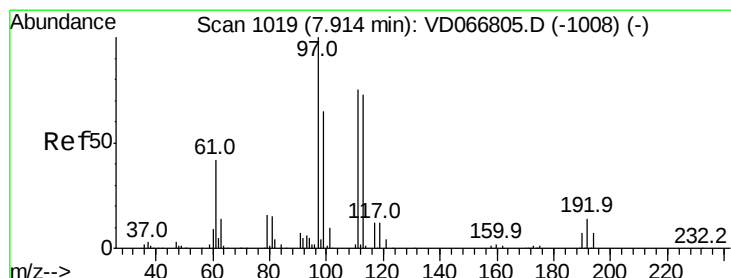
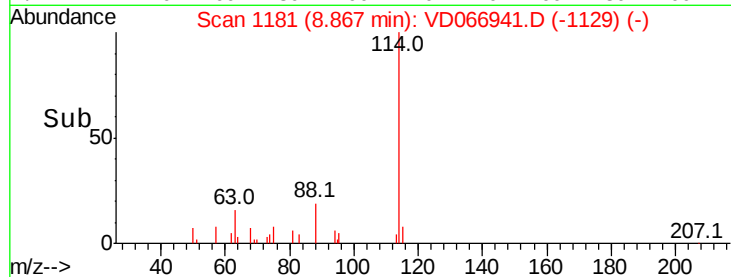
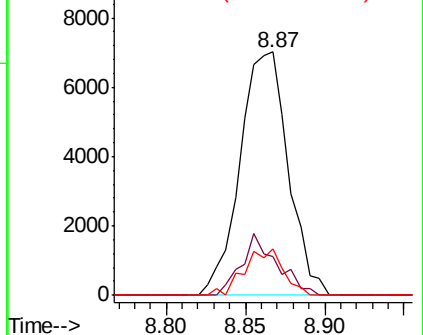
88 19.1 0.0 32.6



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: 39.306 ug/l

RT: 7.90 min Scan# 1017

Delta R.T. -0.01 min

Lab File: VD066941.D

Acq: 29 Sep 2020 16:19

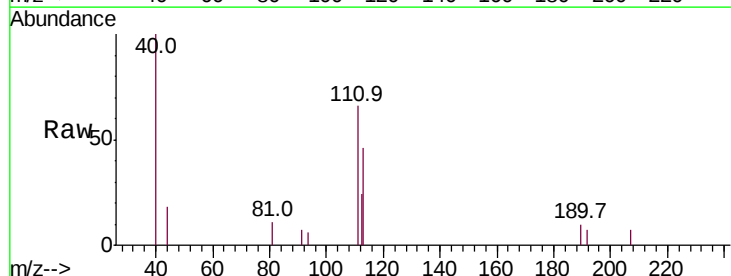
Tgt Ion:113 Resp: 3713

Ion Ratio Lower Upper

113 100

111 0.0 81.8 122.8#

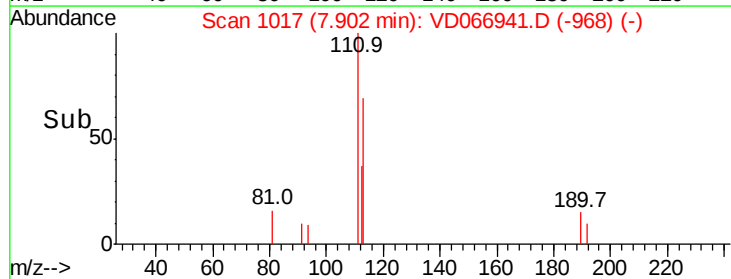
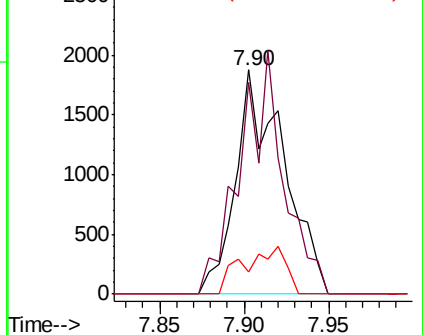
192 6.7 14.4 21.6#

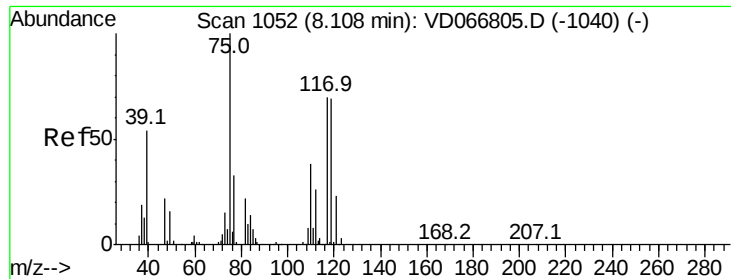


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.637 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.12 min

Lab File: VD066941.D

Acq: 29 Sep 2020 16:19

Instrument :

MSVOA_D

ClientSampleId :

B-7(12-14)

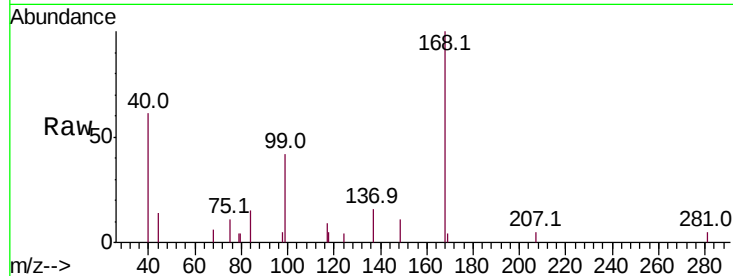
Tot Ion: 75 Resp: 683

Ion Ratio Lower Upper

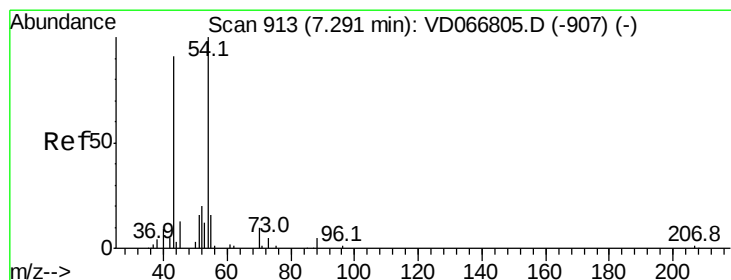
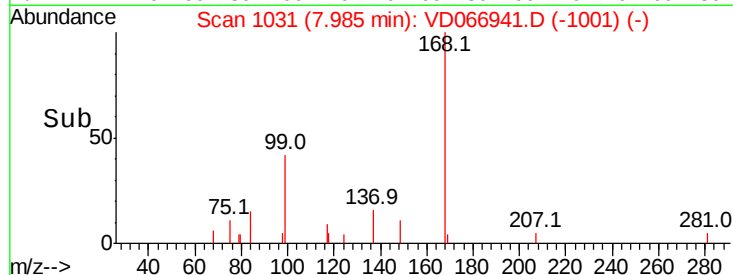
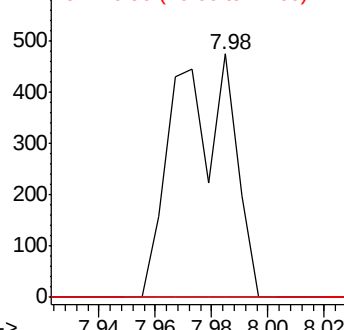
75 100

110 0.0 17.9 53.8#

77 0.0 25.0 37.6#



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: 1.014 ug/l

RT: 7.03 min Scan# 868

Delta R.T. -0.26 min

Lab File: VD066941.D

Acq: 29 Sep 2020 16:19

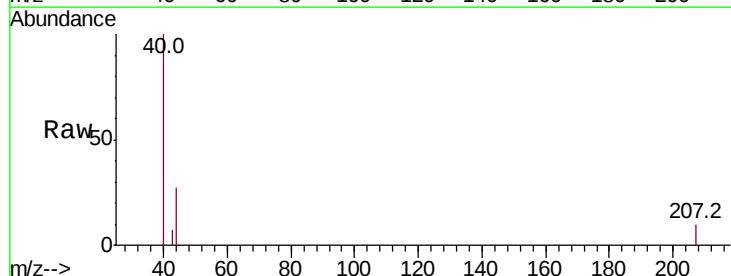
Tgt Ion: 43 Resp: 54

Ion Ratio Lower Upper

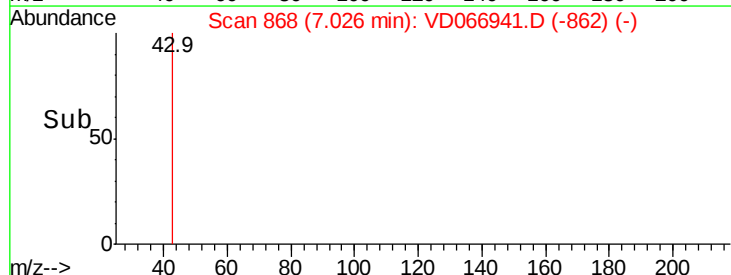
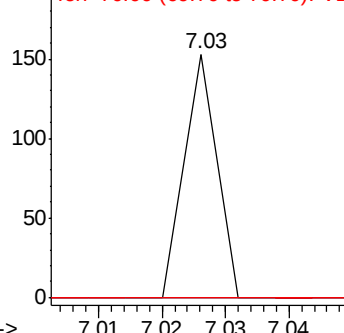
43 100

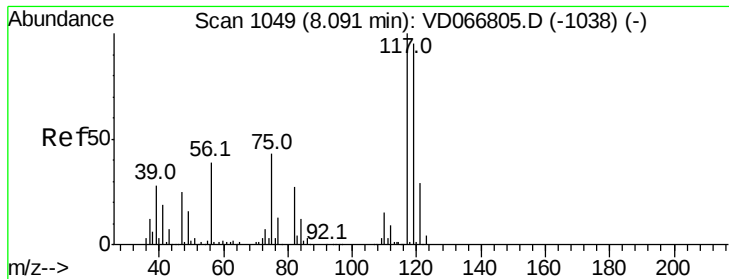
61 0.0 9.8 14.8#

70 0.0 8.5 12.7#



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: 4.763 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.11 min

Lab File: VD066941.D

Acq: 29 Sep 2020 16:19

Instrument :

MSVOA_D

ClientSampleId :

B-7(12-14)

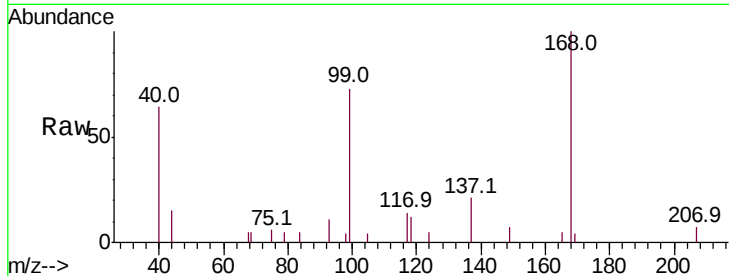
Tot Ion:117 Resp: 767

Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.8#

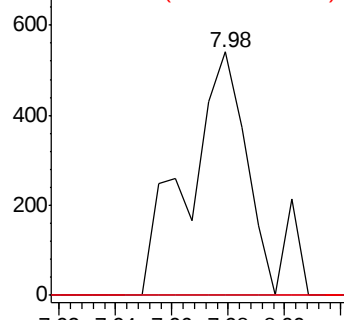
121 0.0 23.4 35.0#



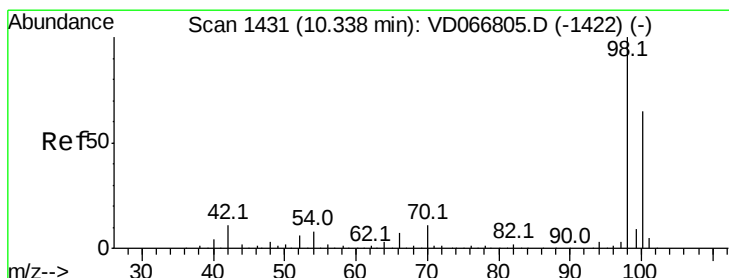
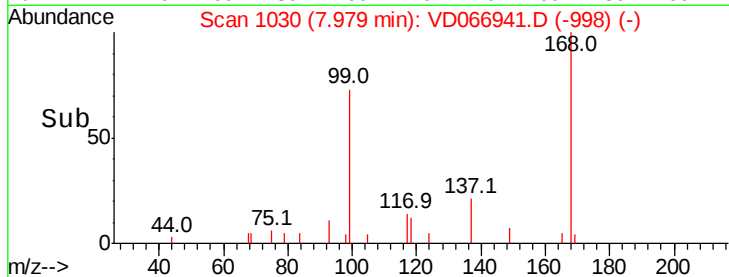
Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



Time-->



#50

Toluene-d8

Concen: 52.474 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VD066941.D

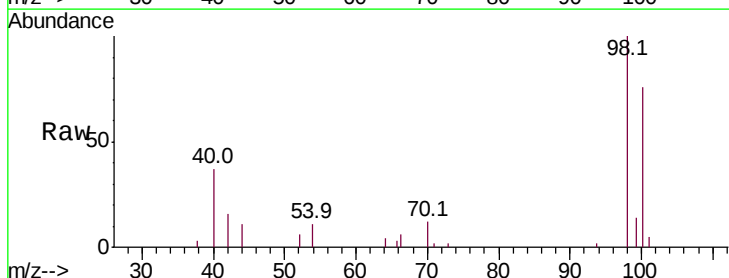
Acq: 29 Sep 2020 16:19

Tgt Ion: 98 Resp: 16889

Ion Ratio Lower Upper

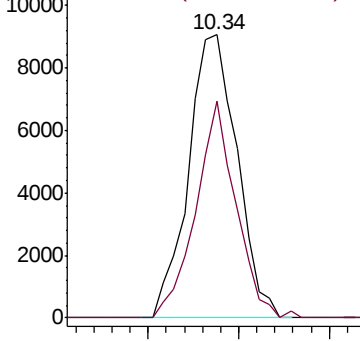
98 100

100 63.3 52.2 78.2

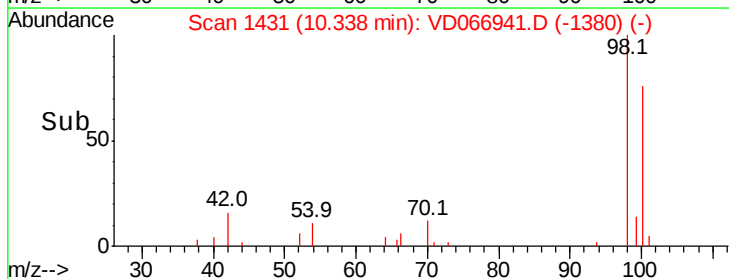


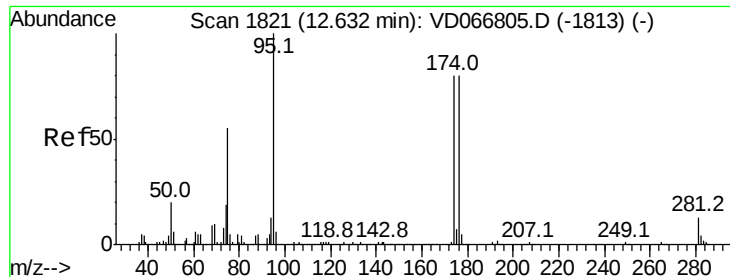
Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V



Time-->

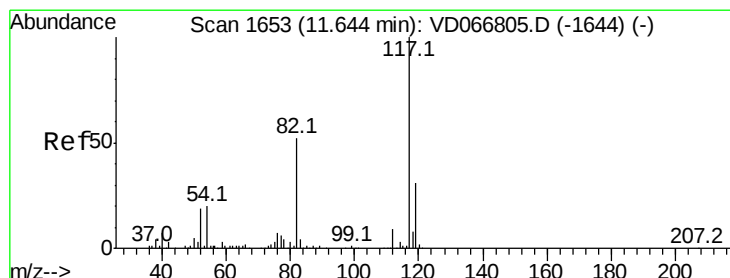
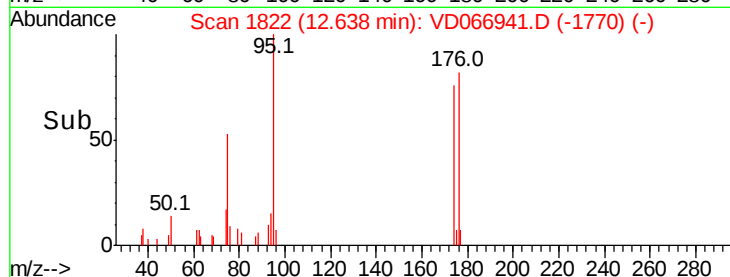
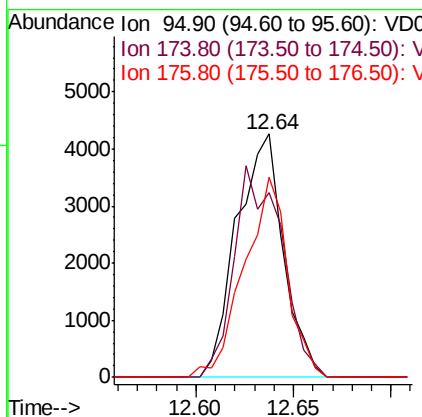
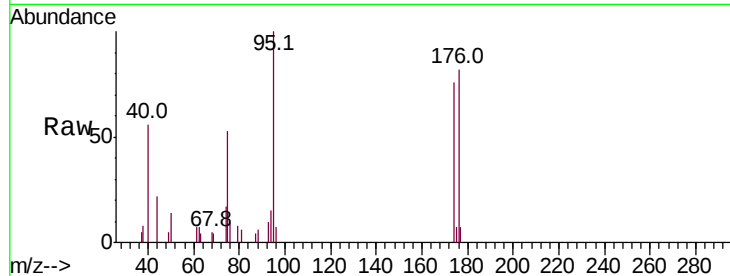




#62
4-Bromofluorobenzene
Concen: 63.949 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.01 min
Lab File: VD066941.D
Acq: 29 Sep 2020 16:19

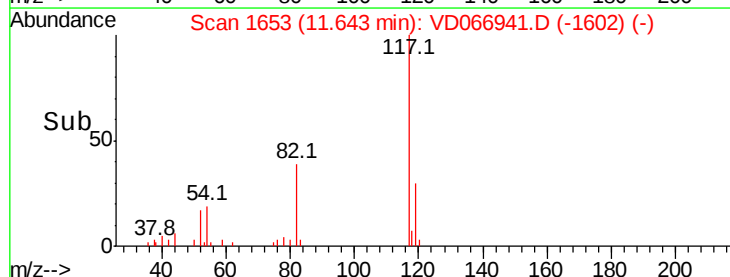
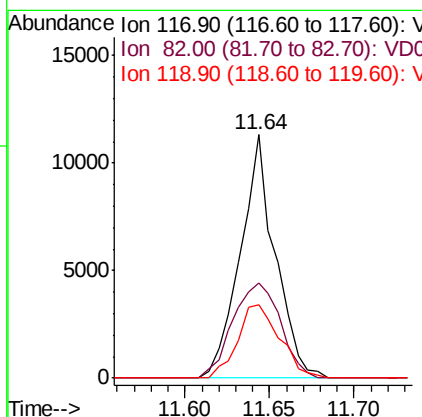
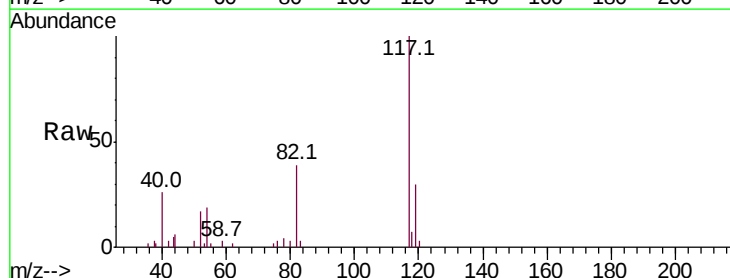
Instrument :
MSVOA_D
ClientSampled :
B-7(12-14)

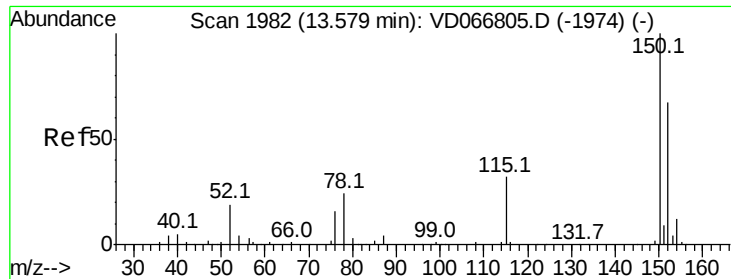
Tot Ion: 95 Resp: 7046
Ion Ratio Lower Upper
95 100
174 88.9 0.0 159.8
176 76.3 0.0 154.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD066941.D
Acq: 29 Sep 2020 16:19

Tgt Ion: 117 Resp: 16282
Ion Ratio Lower Upper
117 100
82 38.8 41.8 62.6#
119 30.1 24.6 37.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VD066941.D

Acq: 29 Sep 2020 16:19

Instrument :

MSVOA_D

ClientSampleId :

B-7(12-14)

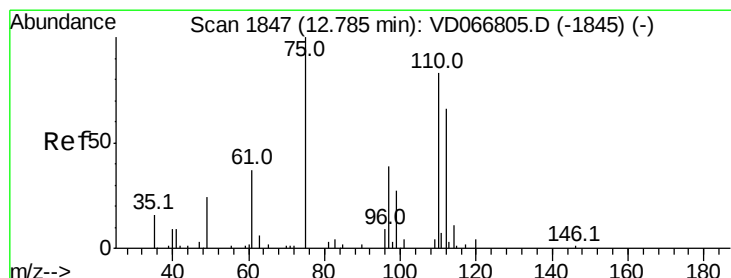
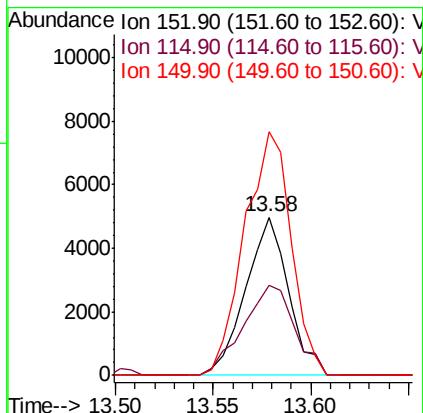
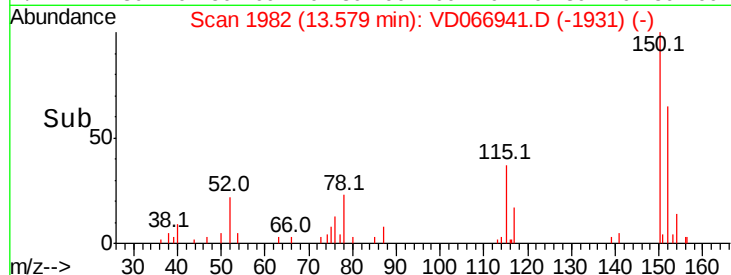
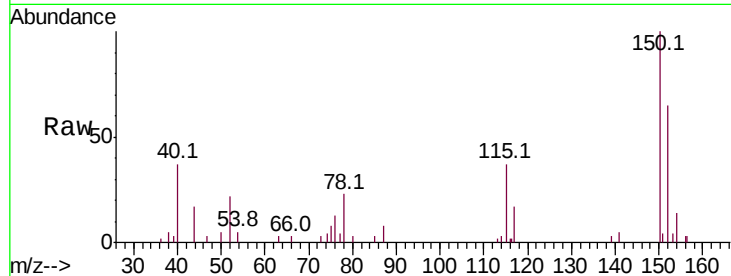
Tot Ion:152 Resp: 7569

Ion Ratio Lower Upper

152 100

115 68.5 30.3 91.0

150 167.2 0.0 346.2



#76

1,2,3-Trichloropropane

Concen: 57.743 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD066941.D

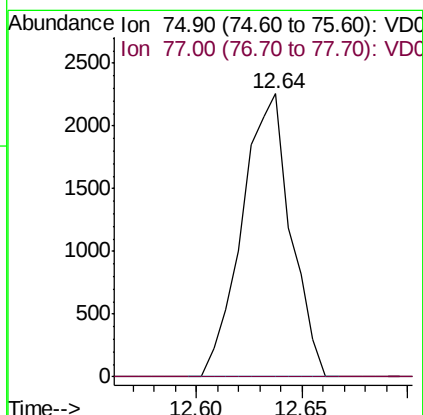
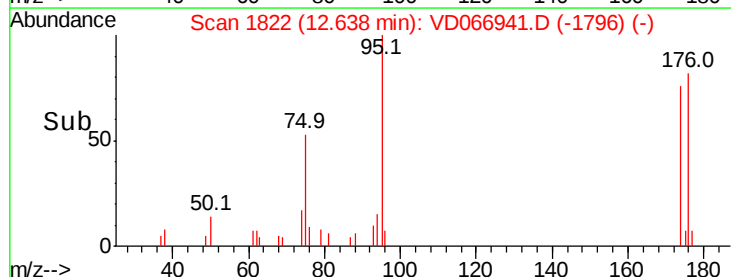
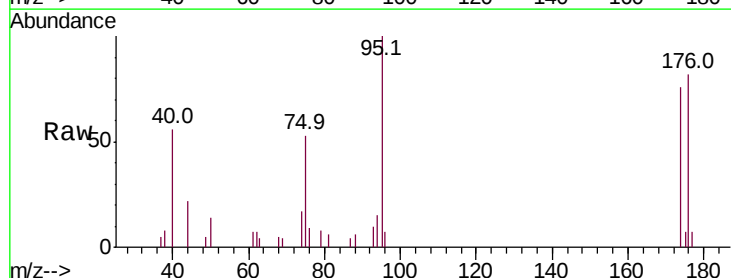
Acq: 29 Sep 2020 16:19

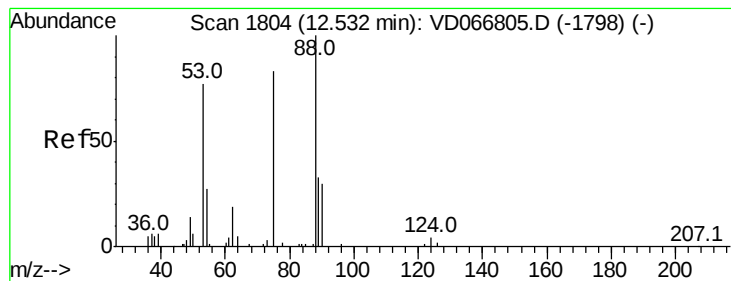
Tgt Ion: 75 Resp: 3622

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#81

trans-1,4-Dichloro-2-butene

Concen: 144.469 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD066941.D

Acq: 29 Sep 2020 16:19

Instrument :

MSVOA_D

ClientSampleId :

B-7(12-14)

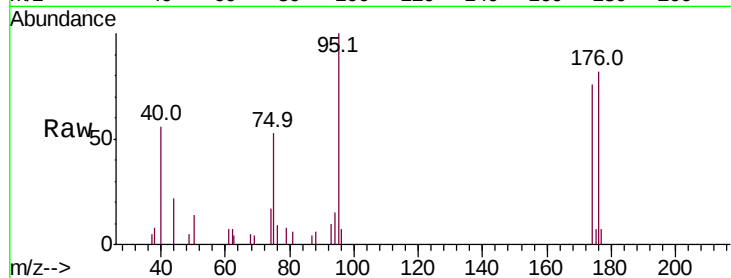
Tot Ion: 75 Resp: 3622

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

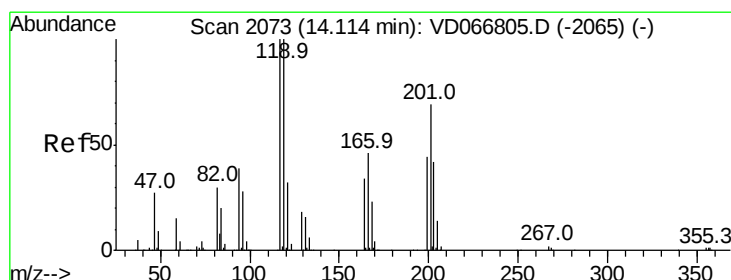
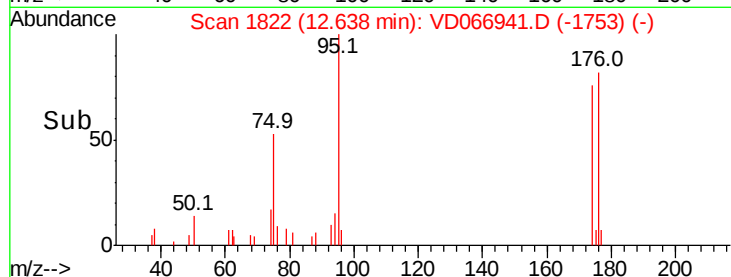
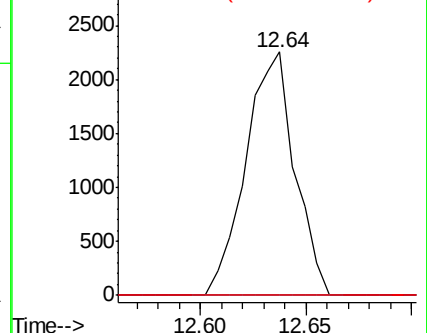
89 0.0 38.1 57.1#



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



#90

Hexachloroethane

Concen: 1.475 ug/l

RT: 14.23 min Scan# 2093

Delta R.T. 0.12 min

Lab File: VD066941.D

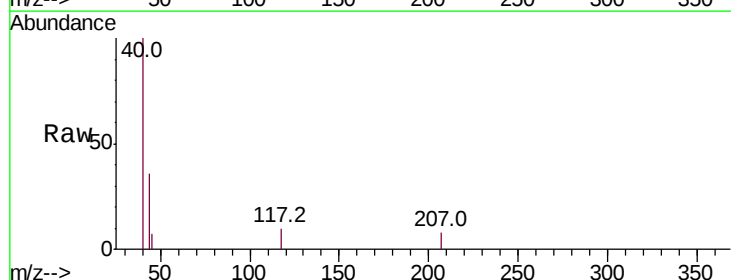
Acq: 29 Sep 2020 16:19

Tgt Ion: 117 Resp: 148

Ion Ratio Lower Upper

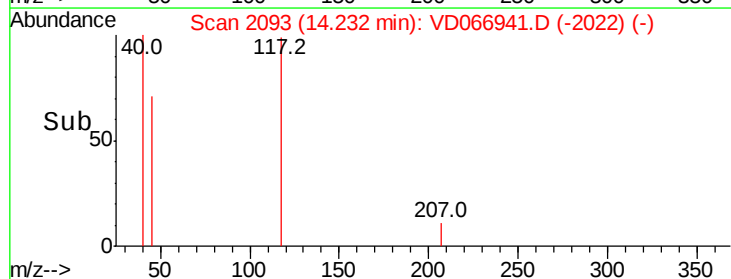
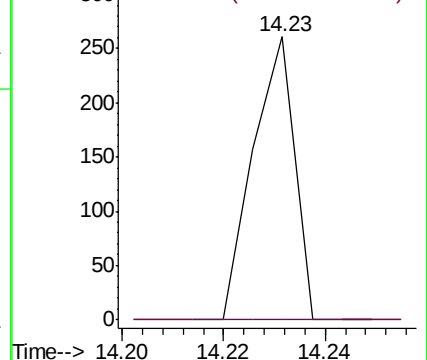
117 100

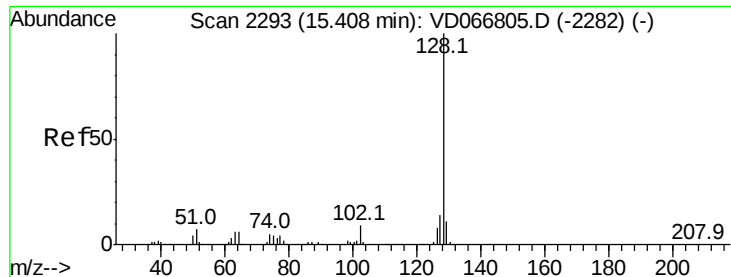
201 0.0 33.7 101.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#95

Naphthalene

Concen: 9.926 ug/l

RT: 15.40 min Scan# 2292

Delta R.T. -0.01 min

Lab File: VD066941.D

Acq: 29 Sep 2020 16:19

Instrument :

MSVOA_D

ClientSampleId :

B-7(12-14)

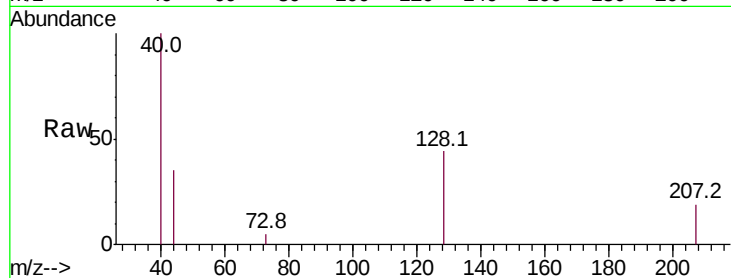
Tot Ion:128 Resp: 2293

Ion Ratio Lower Upper

128 100

127 10.4 10.6 16.0#

129 2.4 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

