

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD091520\
 Data File : VD066706.D
 Acq On : 15 Sep 2020 19:48
 Operator : VA/SY
 Sample : L4005-03
 Misc : 5.83G/5.00ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 32-34

Quant Time: Sep 16 01:46:34 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	7.98	168	381698	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	716090	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	706605	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	320821	50.00	ug/l	0.00

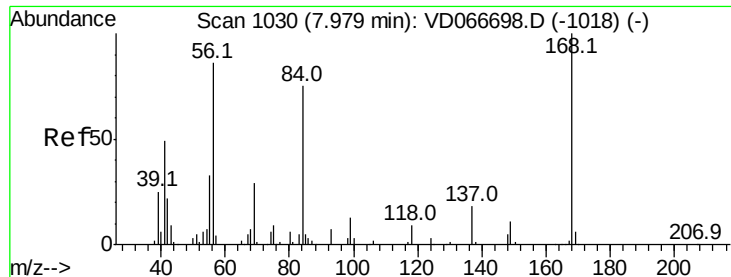
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	250890	61.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	123.22%	
35) Dibromofluoromethane	7.91	113	246813	56.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.44%	
50) Toluene-d8	10.34	98	883665	56.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.98%	
62) 4-Bromofluorobenzene	12.63	95	336587	62.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	124.68%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	1427	Below Cal	#	43
11) Tert butyl alcohol	5.23	59	65	Below Cal	#	76
16) Acetone	4.17	43	2487	2.999	ug/l #	47
18) Methyl Acetate	4.73	43	443	Below Cal	#	52
20) Methylene Chloride	4.97	84	6122	Below Cal		94
31) Cyclohexane	7.98	56	12194	1.695	ug/l #	1
55) 1,1,2-Trichloroethane	10.77	97	10881	3.050	ug/l #	19
56) Ethyl methacrylate	10.68	69	5015	1.239	ug/l #	1
59) 2-Hexanone	10.94	43	2039	1.124	ug/l #	26
74) N-amyl acetate	12.24	43	22615	4.476	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.71	83	24025	5.903	ug/l #	52
76) 1,2,3-Trichloropropane	12.63	75	182383	66.415	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.96	105	33233	1.641	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.63	75	182383	143.336	ug/l #	10
90) Hexachloroethane	14.12	117	4858	1.087	ug/l #	35
92) 1,2-Dibromo-3-Chloropropan	14.53	75	827	1.257	ug/l #	45

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VD066706.D

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Instrument :

MSVOA_D

ClientSampleId :

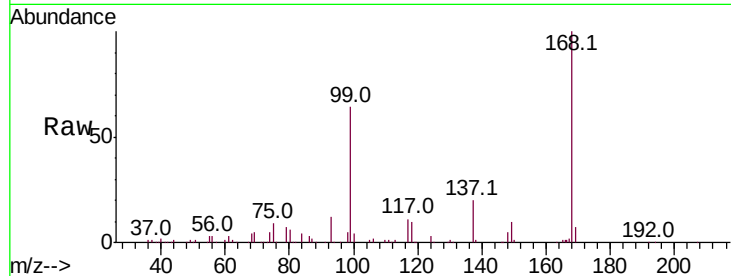
32-34

Tot Ion:168 Resp: 381698

Ion Ratio Lower Upper

168 100

99 63.7 54.4 81.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

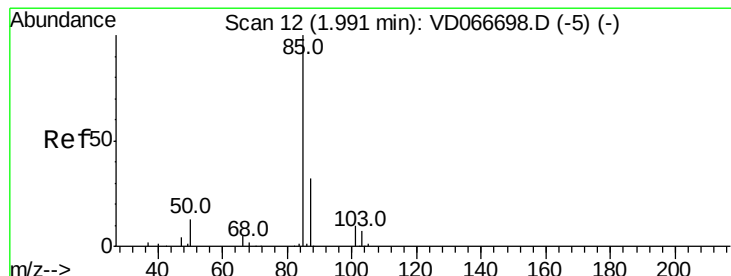
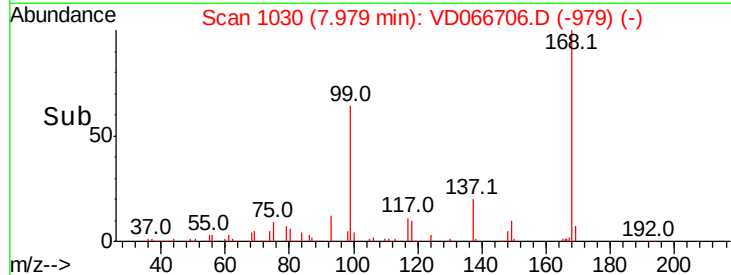
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. -0.01 min

Lab File: VD066706.D

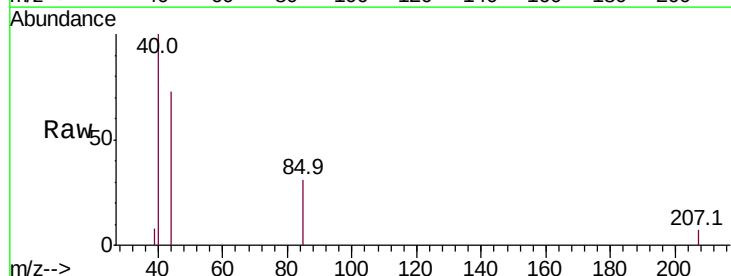
Acq: 15 Sep 2020 19:48

Tgt Ion: 85 Resp: 1427

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.6#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

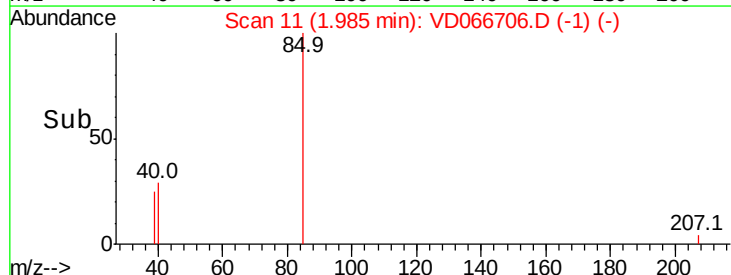
1.99

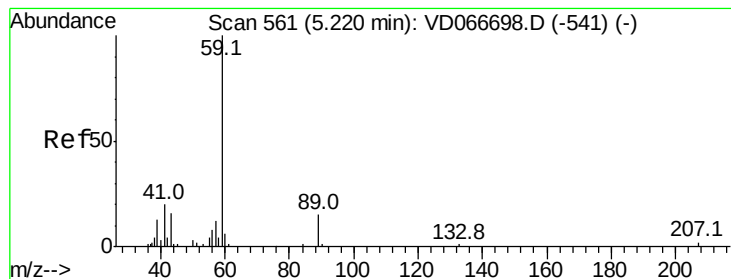
1000

500

0

Time-->



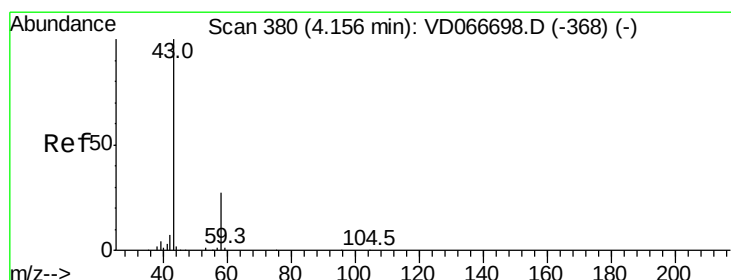
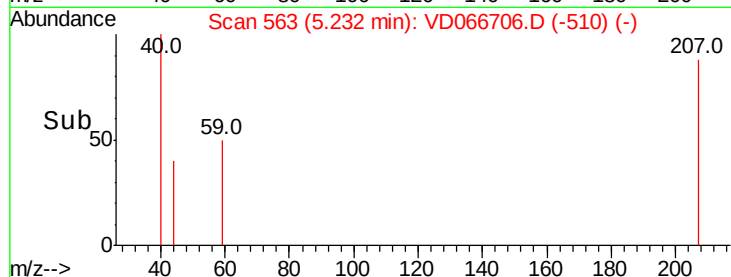
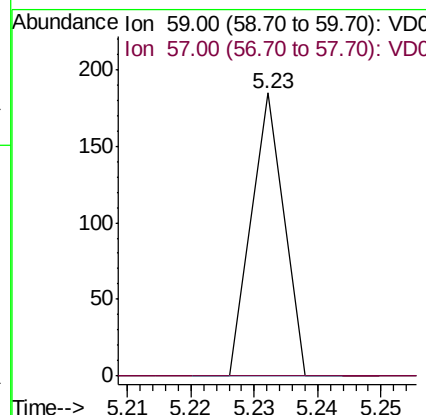
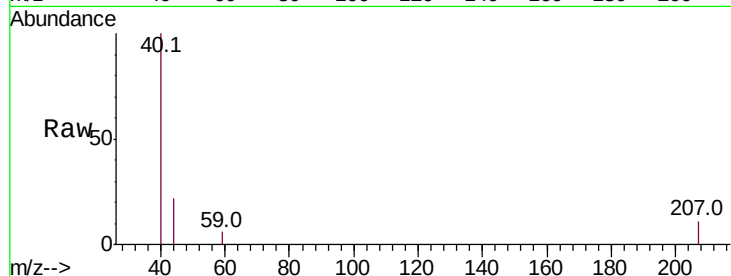


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.23 min Scan# 563
 Delta R.T. 0.01 min
 Lab File: VD066706.D
 Acq: 15 Sep 2020 19:48

Instrument :
 MSVOA_D
 ClientSampleId :
 32-34

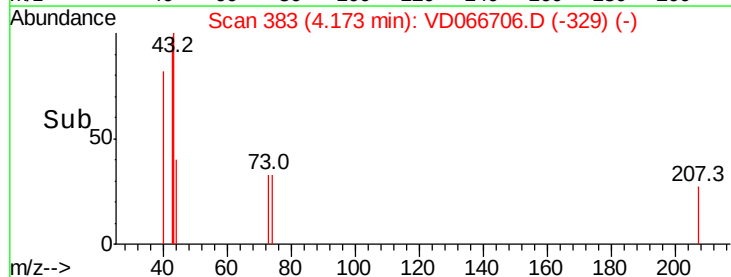
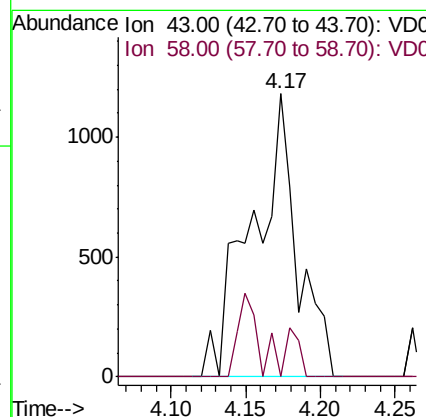
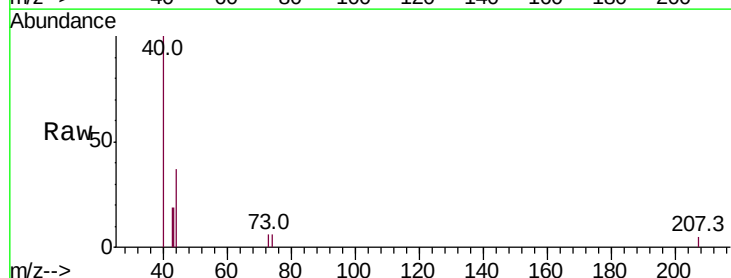
Tot Ion: 59 Resp: 65
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.7 10.1#

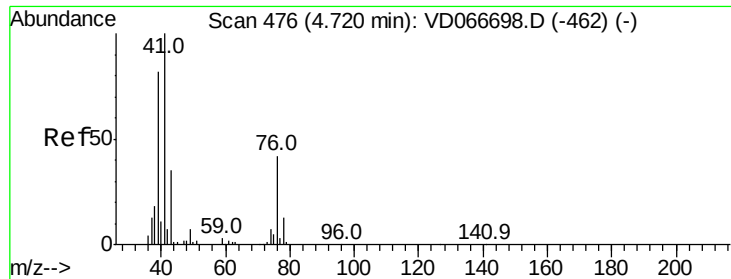


#16

Acetone
 Concen: 2.999 ug/l
 RT: 4.17 min Scan# 383
 Delta R.T. 0.02 min
 Lab File: VD066706.D
 Acq: 15 Sep 2020 19:48

Tgt Ion: 43 Resp: 2487
 Ion Ratio Lower Upper
 43 100
 58 0.0 21.9 32.9#

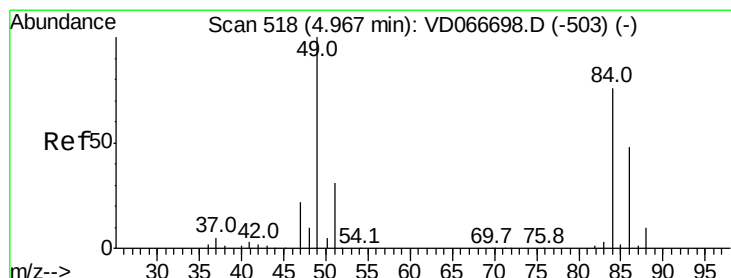
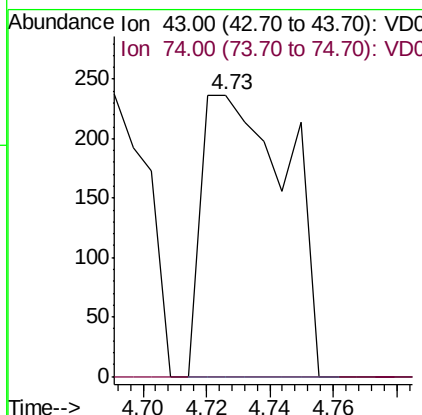
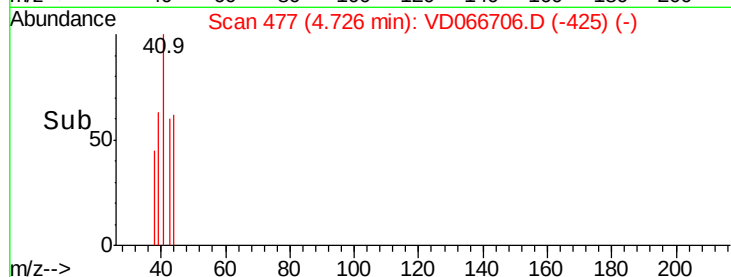
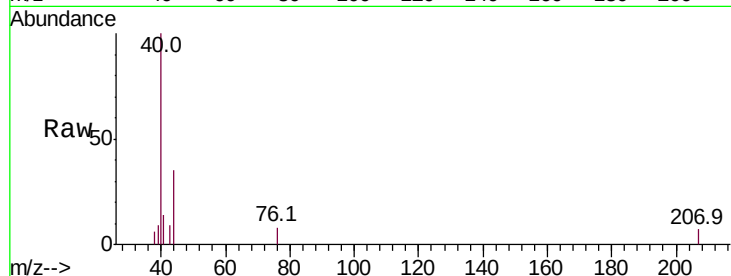




#18
Methyl Acetate
Concen: Below Cal
RT: 4.73 min Scan# 477
Delta R.T. 0.01 min
Lab File: VD066706.D
Acq: 15 Sep 2020 19:48

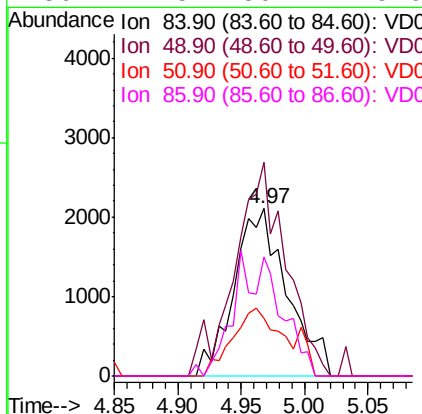
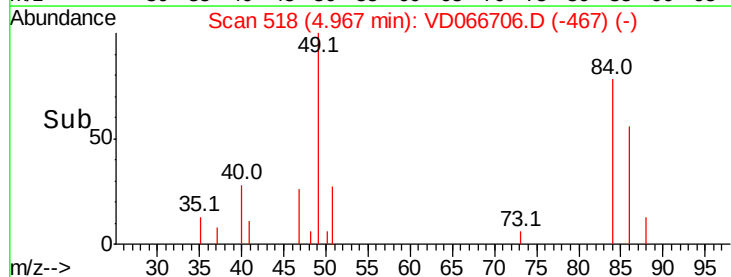
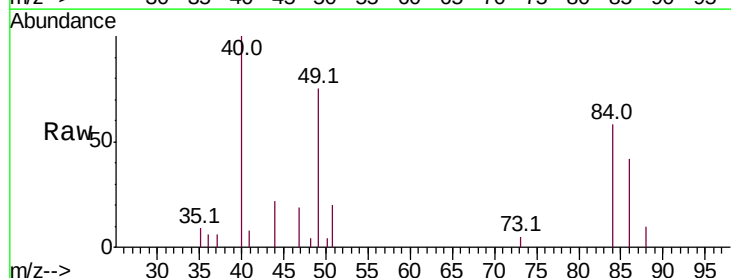
Instrument :
MSVOA_D
ClientSampled :
32-34

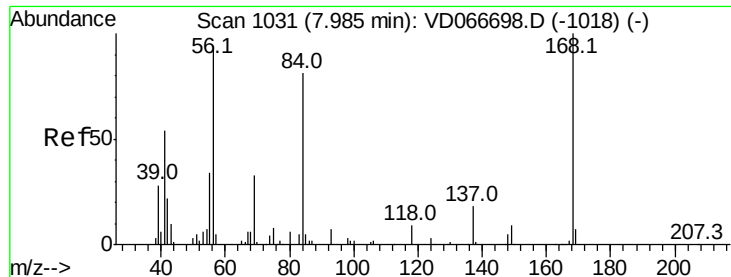
Tot Ion: 43 Resp: 443
Ion Ratio Lower Upper
43 100
74 0.0 18.6 28.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 518
Delta R.T. 0.00 min
Lab File: VD066706.D
Acq: 15 Sep 2020 19:48

Tgt Ion: 84 Resp: 6122
Ion Ratio Lower Upper
84 100
49 127.7 105.0 157.6
51 34.1 32.2 48.4
86 71.5 50.4 75.6

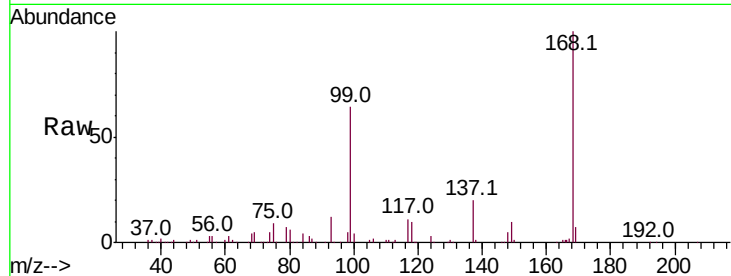




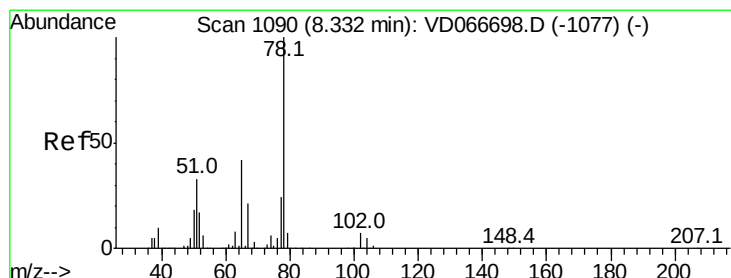
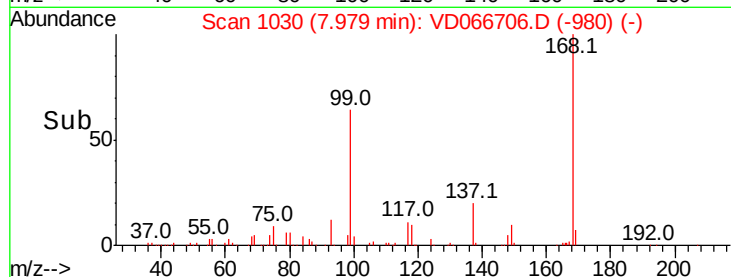
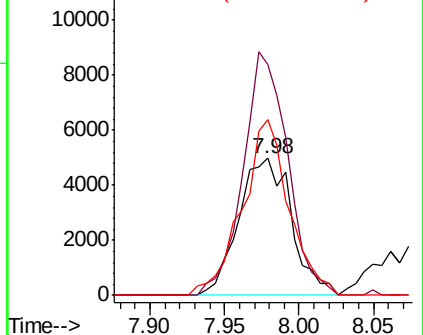
#31
Cyclohexane
Concen: 1.695 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD066706.D
Acq: 15 Sep 2020 19:48

Instrument :
MSVOA_D
ClientSampleId :
32-34

Tot Ion: 56 Resp: 12194
Ion Ratio Lower Upper
56 100
69 168.4 27.7 41.5#
84 128.1 68.5 102.7#

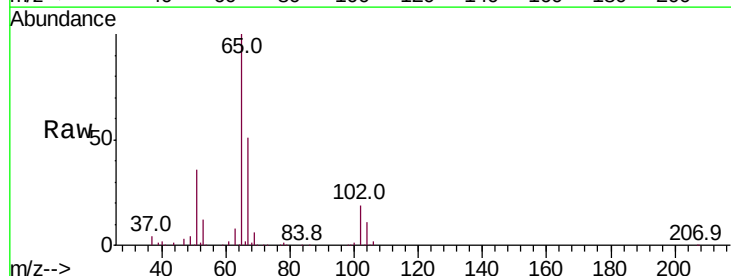


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

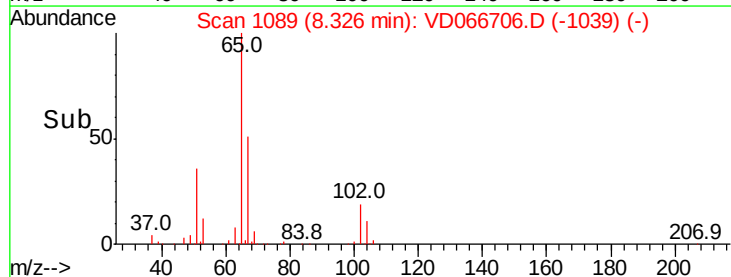
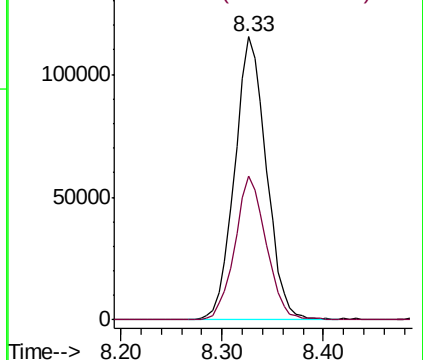


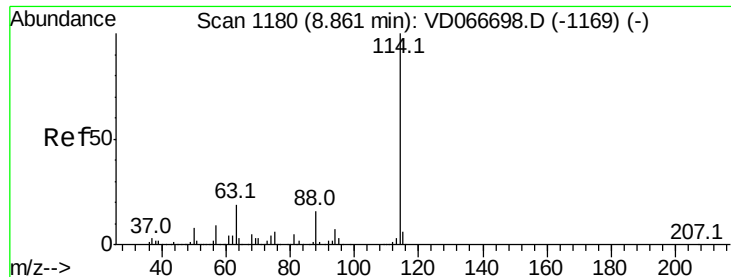
#33
1,2-Dichloroethane-d4
Concen: 61.606 ug/l
RT: 8.33 min Scan# 1089
Delta R.T. -0.01 min
Lab File: VD066706.D
Acq: 15 Sep 2020 19:48

Tgt Ion: 65 Resp: 250890
Ion Ratio Lower Upper
65 100
67 50.2 0.0 102.2



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: 8.86 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VD066706.D

Acq: 15 Sep 2020 19:48

Instrument :

MSVOA_D

ClientSampleId :

32-34

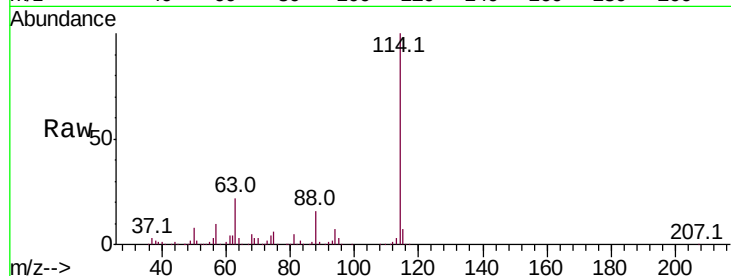
Tot Ion:114 Resp: 716090

Ion Ratio Lower Upper

114 100

63 22.4 0.0 37.6

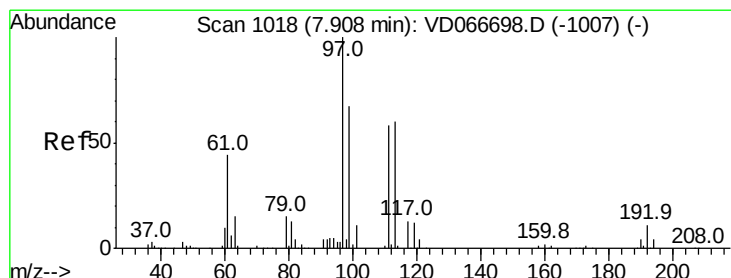
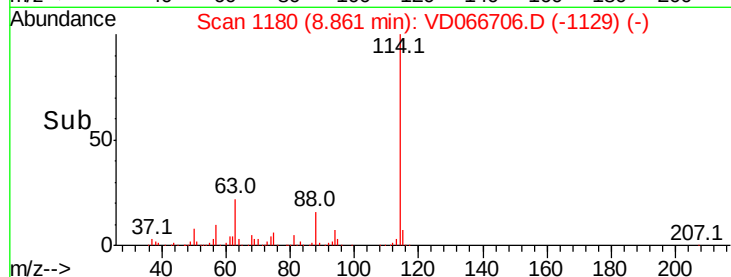
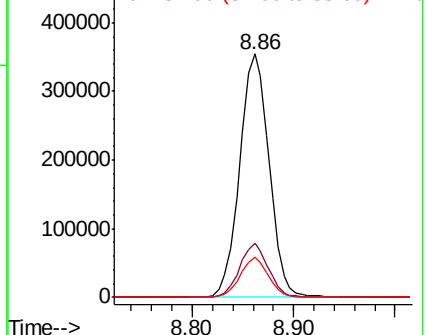
88 16.4 0.0 32.2



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: 56.218 ug/l

RT: 7.91 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VD066706.D

Acq: 15 Sep 2020 19:48

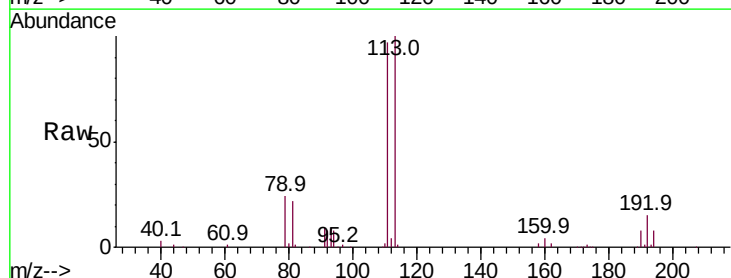
Tgt Ion:113 Resp: 246813

Ion Ratio Lower Upper

113 100

111 101.4 83.2 124.8

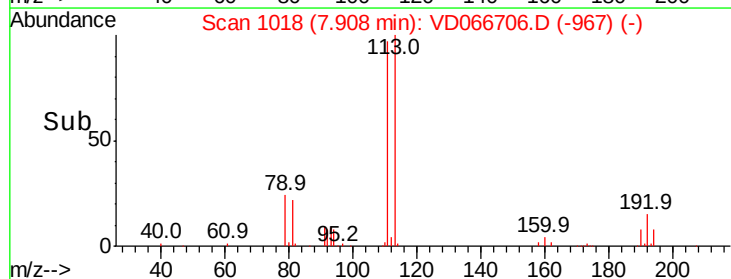
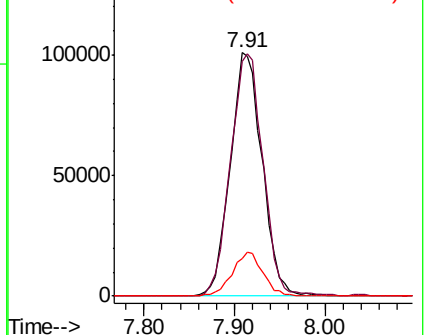
192 17.2 14.8 22.2

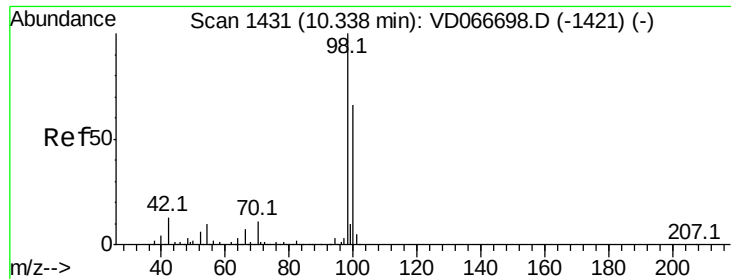


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

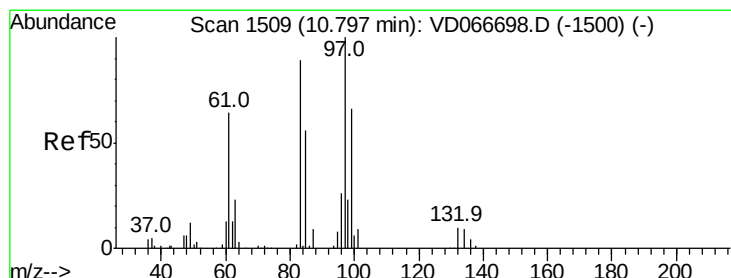
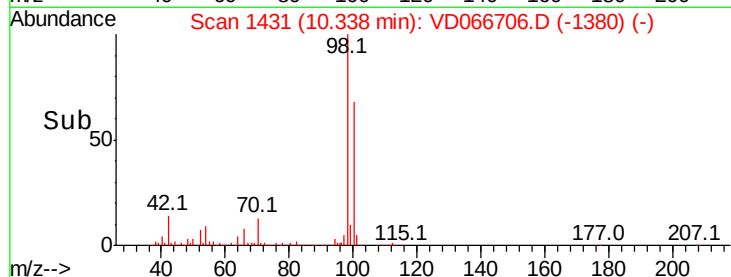
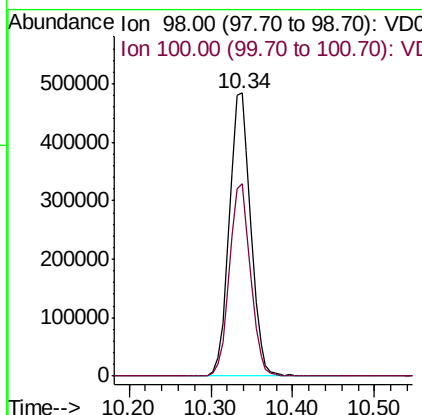
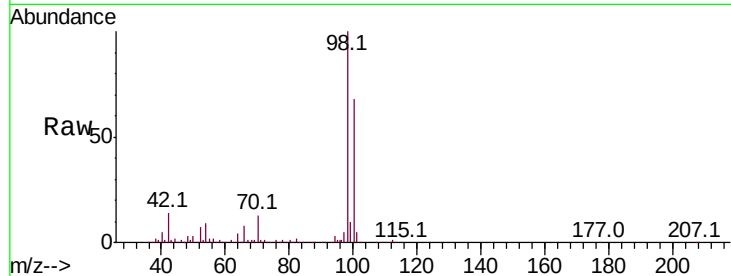




#50
Toluene-d8
Concen: 56.494 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.00 min
Lab File: VD066706.D
Acq: 15 Sep 2020 19:48

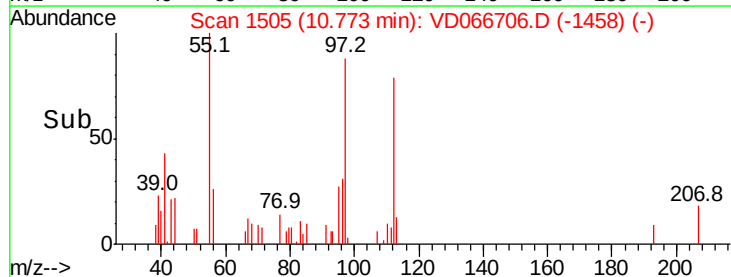
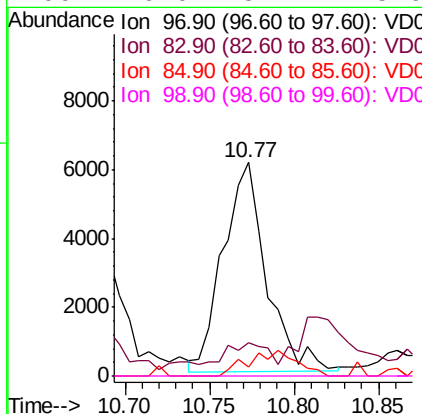
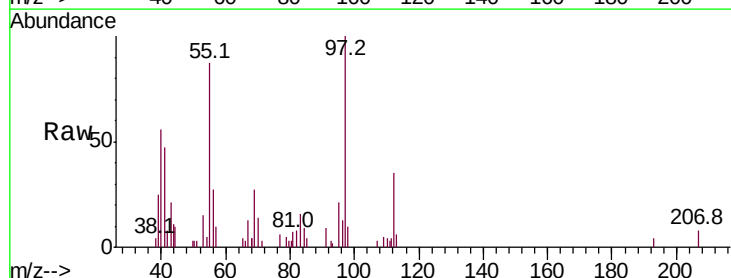
Instrument :
MSVOA_D
ClientSampled :
32-34

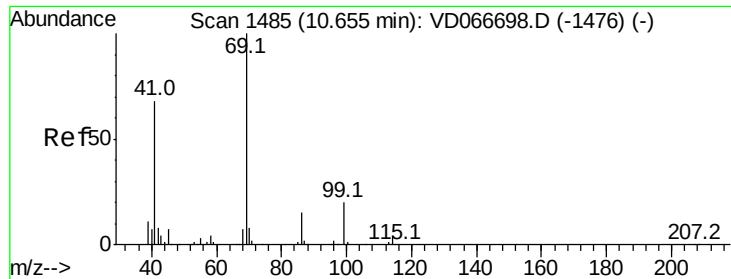
Tot Ion: 98 Resp: 883665
Ion Ratio Lower Upper
98 100
100 67.0 52.7 79.1



#55
1,1,2-Trichloroethane
Concen: 3.050 ug/l
RT: 10.77 min Scan# 1505
Delta R.T. -0.02 min
Lab File: VD066706.D
Acq: 15 Sep 2020 19:48

Tgt Ion: 97 Resp: 10881
Ion Ratio Lower Upper
97 100
83 9.3 71.4 107.2#
85 4.3 44.7 67.1#
99 0.0 52.4 78.6#





#56

Ethyl methacrylate

Concen: 1.239 ug/l

RT: 10.68 min Scan# 1489

Delta R.T. 0.02 min

Lab File: VD066706.D

Acq: 15 Sep 2020 19:48

Instrument :

MSVOA_D

ClientSampleId :

32-34

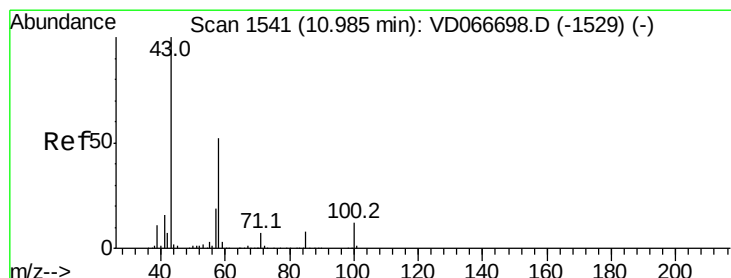
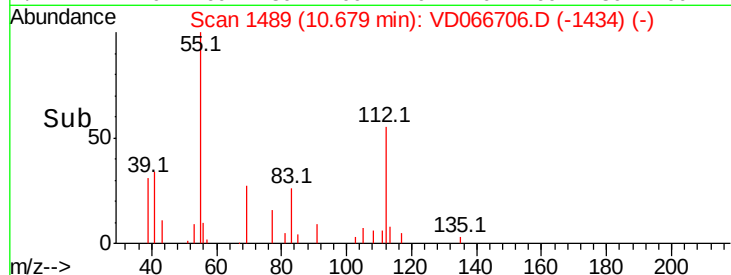
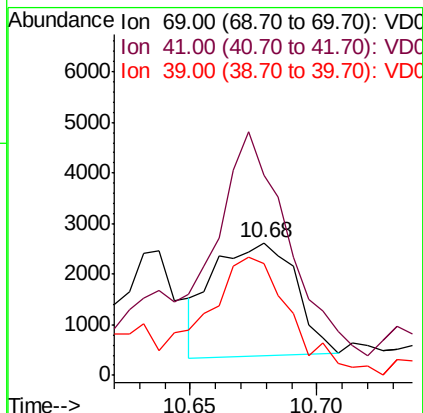
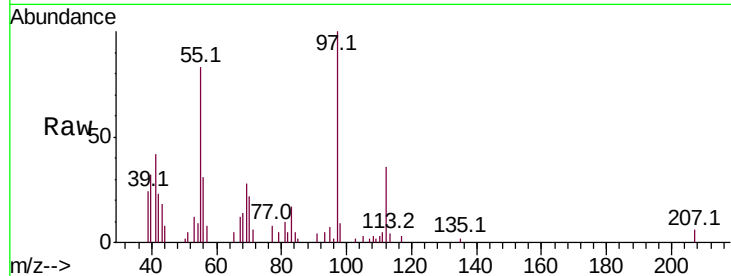
Tot Ion: 69 Resp: 5015

Ion Ratio Lower Upper

69 100

41 217.6 55.5 83.3#

39 108.9 29.7 44.5#



#59

2-Hexanone

Concen: 1.124 ug/l

RT: 10.94 min Scan# 1534

Delta R.T. -0.04 min

Lab File: VD066706.D

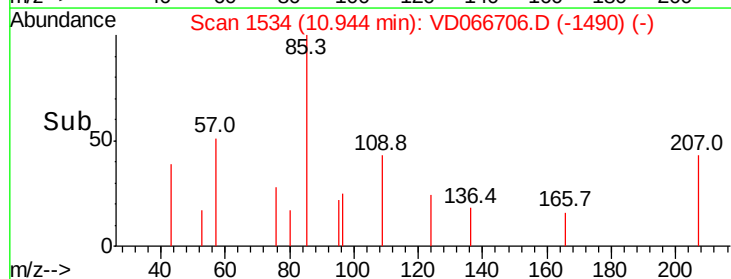
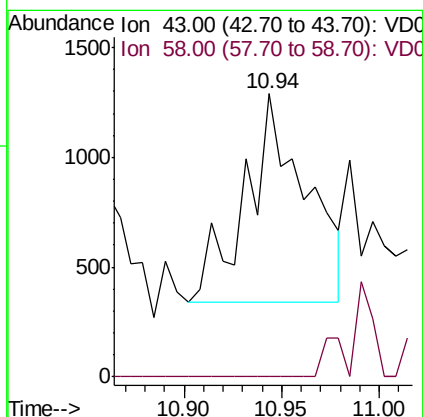
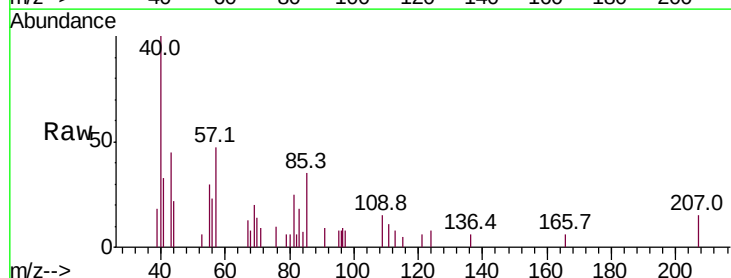
Acq: 15 Sep 2020 19:48

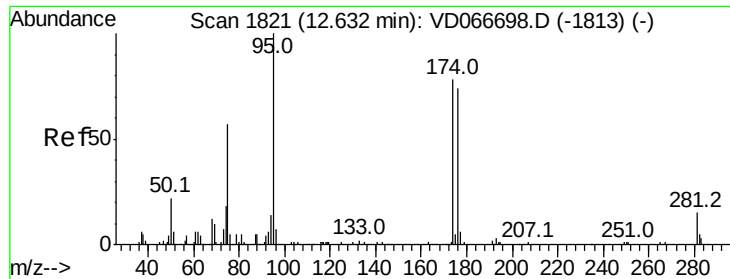
Tgt Ion: 43 Resp: 2039

Ion Ratio Lower Upper

43 100

58 0.0 26.2 78.5#

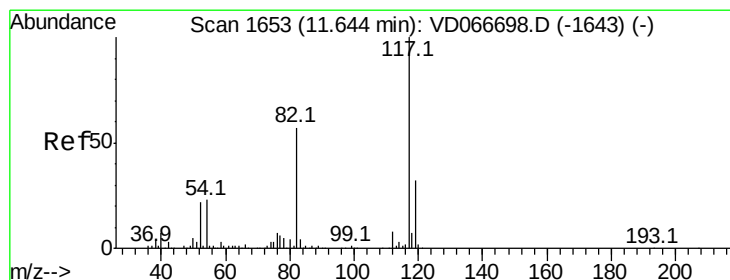
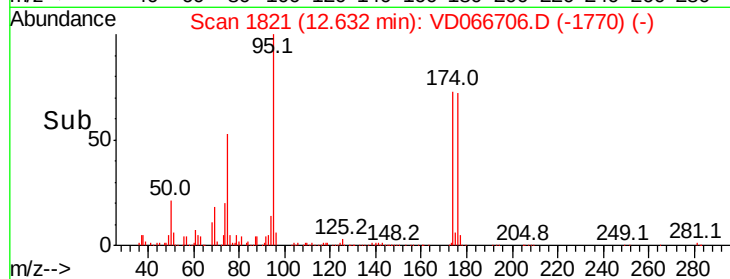
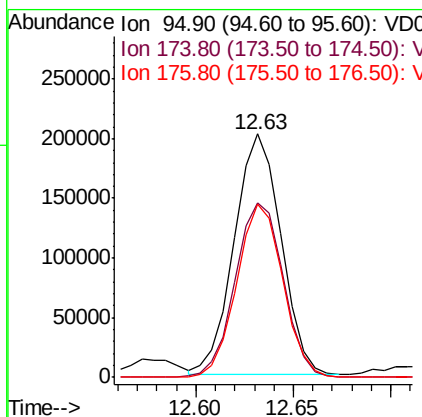
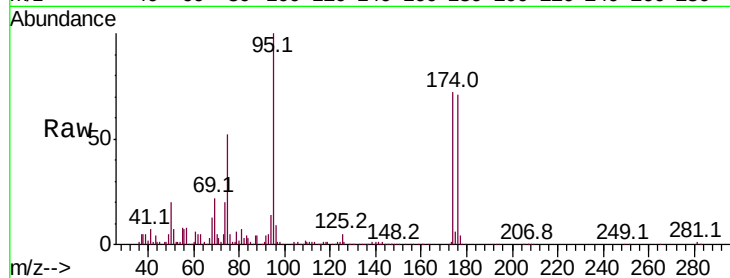




#62
4-Bromofluorobenzene
Concen: 62.339 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. -0.00 min
Lab File: VD066706.D
Acq: 15 Sep 2020 19:48

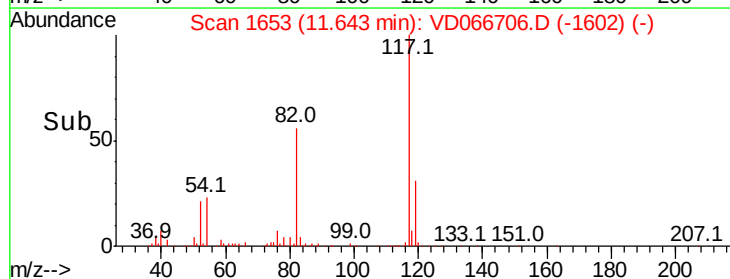
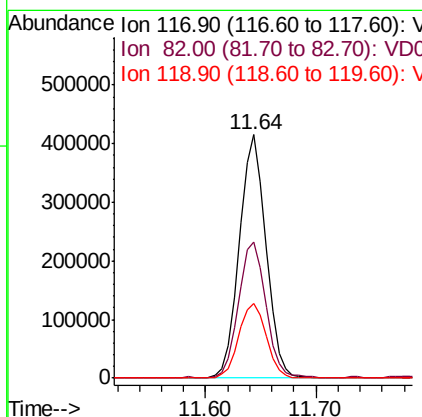
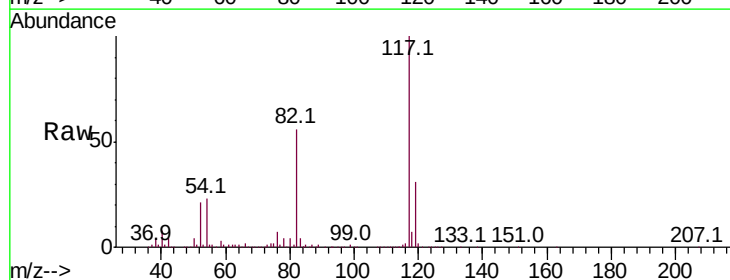
Instrument :
MSVOA_D
ClientSampleId :
32-34

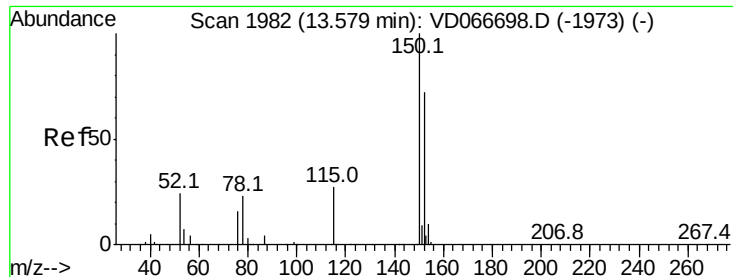
Tot Ion	95	Resp	336587
Ion	Ratio	Lower	Upper
95	100		
174	74.2	0.0	156.6
176	70.6	0.0	150.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD066706.D
Acq: 15 Sep 2020 19:48

Tgt Ion	117	Resp	706605
Ion	Ratio	Lower	Upper
117	100		
82	55.5	45.4	68.0
119	30.5	25.8	38.6



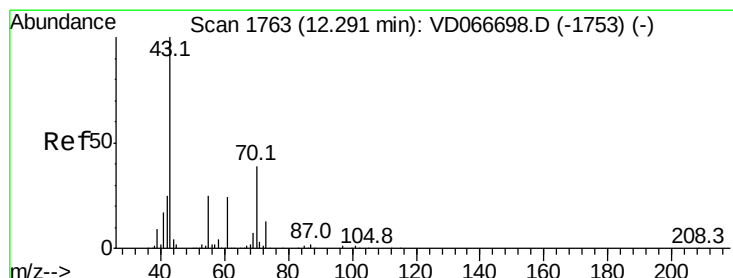
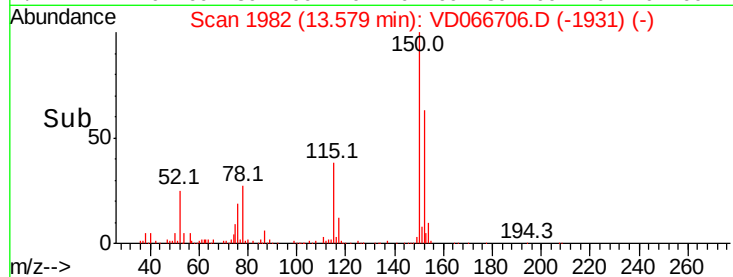
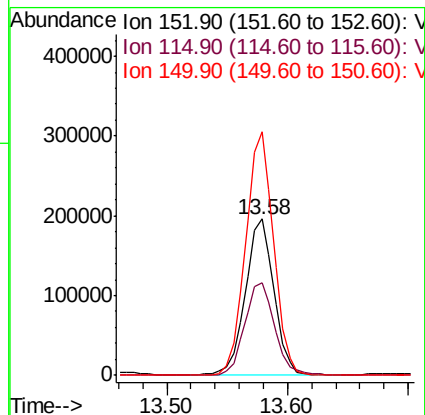
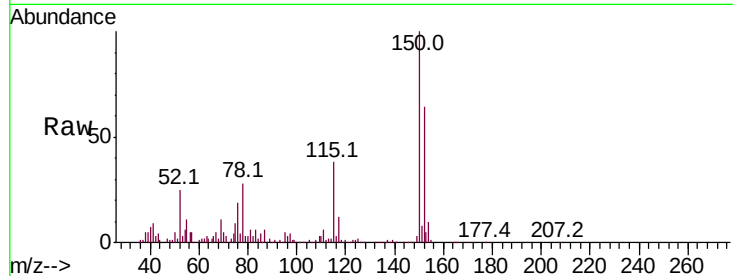


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.00 min
Lab File: VD066706.D
Acq: 15 Sep 2020 19:48

Instrument :
MSVOA_D
ClientSampleId :
32-34

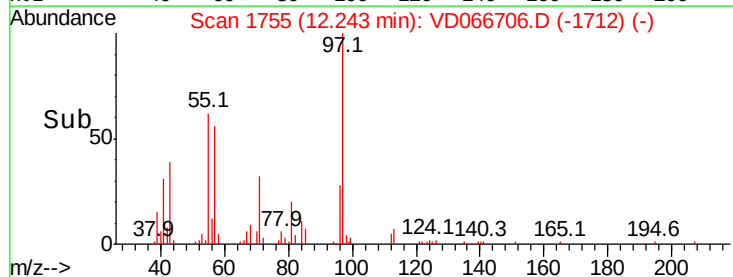
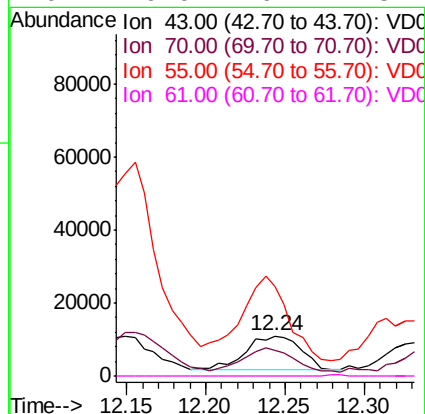
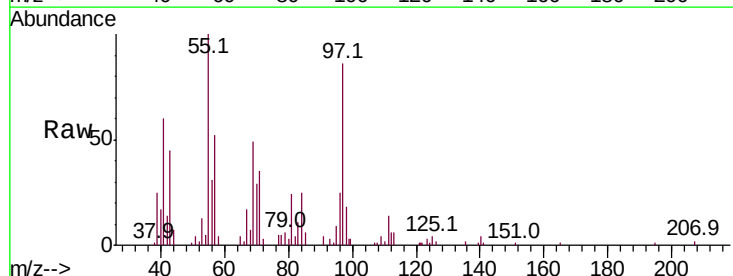
Tot Ion:152 Resp: 320821
Ion Ratio Lower Upper
152 100
115 62.5 30.5 91.5
150 153.1 0.0 344.6

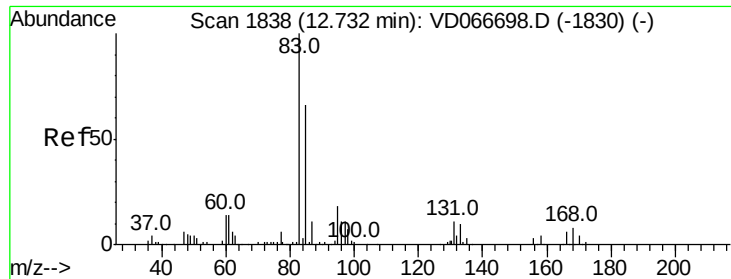


#74

N-ethyl acetate
Concen: 4.476 ug/l
RT: 12.24 min Scan# 1755
Delta R.T. -0.05 min
Lab File: VD066706.D
Acq: 15 Sep 2020 19:48

Tgt Ion: 43 Resp: 22615
Ion Ratio Lower Upper
43 100
70 61.4 33.0 49.4#
55 214.2 20.6 30.8#
61 0.0 19.1 28.7#





#75

1,1,2,2-Tetrachloroethane

Concen: 5.903 ug/l

RT: 12.71 min Scan# 1834

Delta R.T. -0.02 min

Lab File: VD066706.D

Acq: 15 Sep 2020 19:48

Instrument :

MSVOA_D

ClientSampleId :

32-34

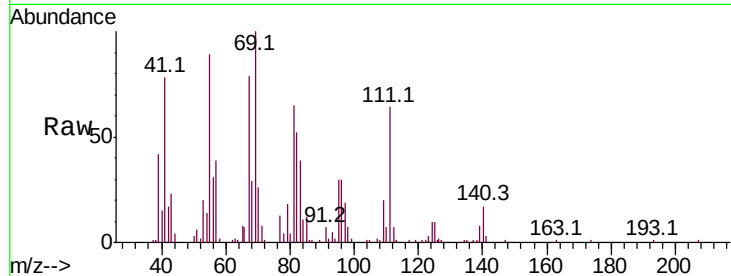
Tot Ion: 83 Resp: 24025

Ion Ratio Lower Upper

83 100

131 0.0 5.8 17.3#

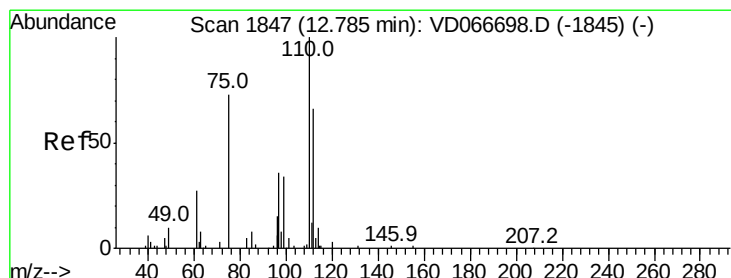
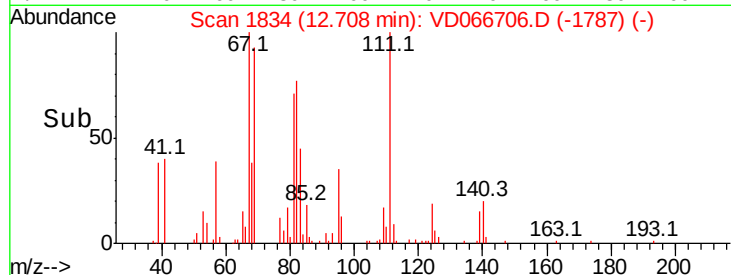
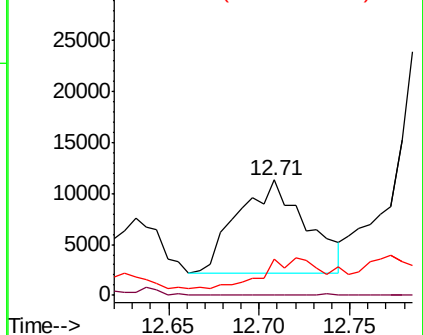
85 25.7 33.3 99.8#



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: 66.415 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066706.D

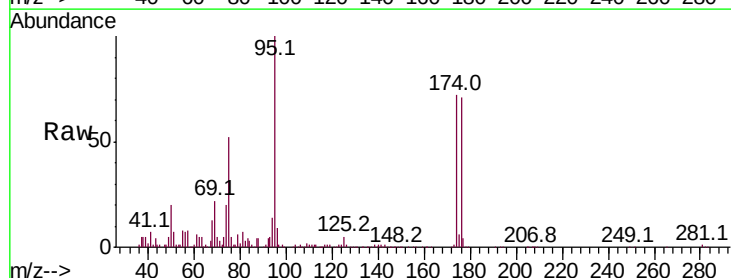
Acq: 15 Sep 2020 19:48

Tgt Ion: 75 Resp: 182383

Ion Ratio Lower Upper

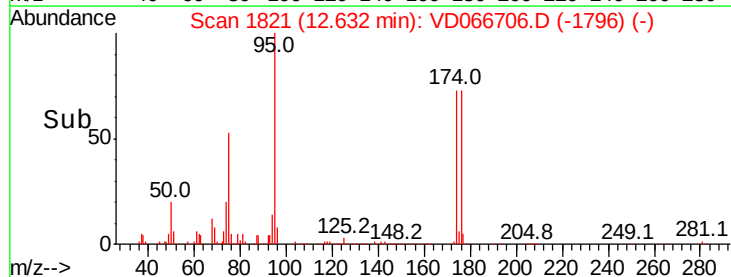
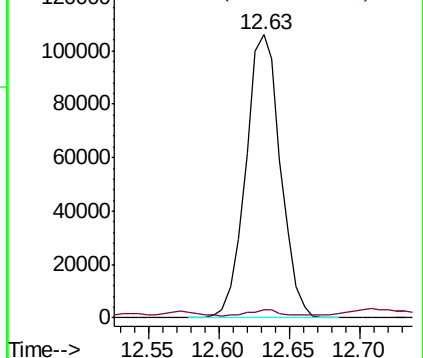
75 100

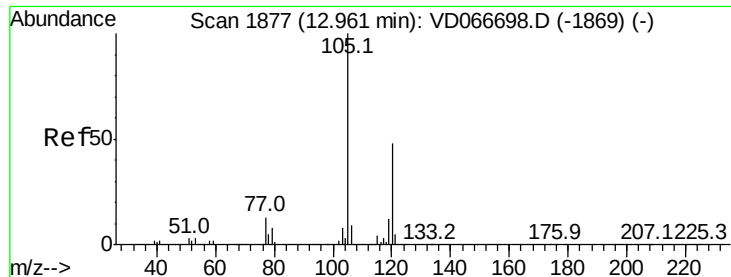
77 1.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#80

1,3,5-Trimethylbenzene

Concen: 1.641 ug/l

RT: 12.96 min Scan# 1877

Delta R.T. -0.00 min

Lab File: VD066706.D

Acq: 15 Sep 2020 19:48

Instrument :

MSVOA_D

ClientSampled :

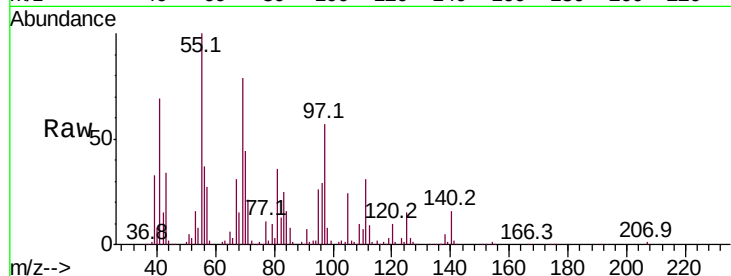
32-34

Tot Ion:105 Resp: 33233

Ion Ratio Lower Upper

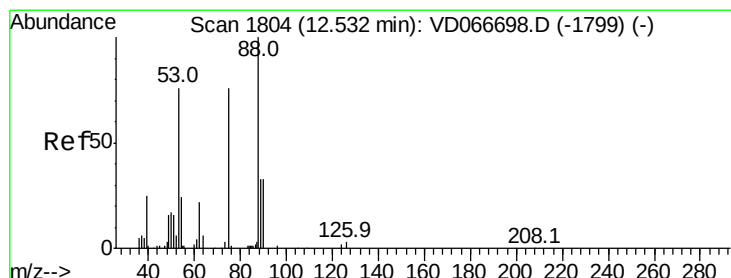
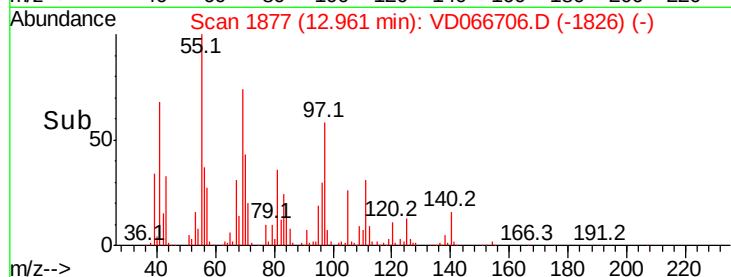
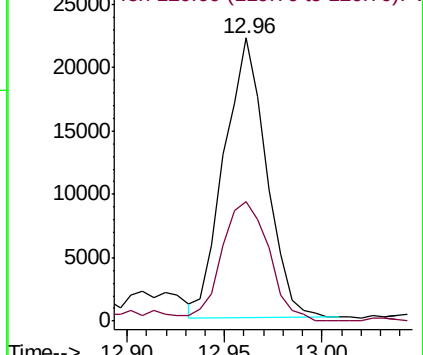
105 100

120 47.3 23.9 71.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 143.336 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066706.D

Acq: 15 Sep 2020 19:48

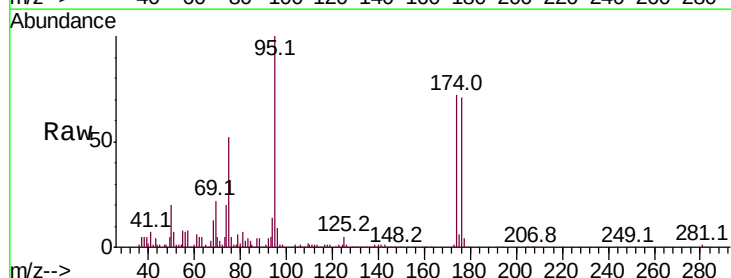
Tgt Ion: 75 Resp: 182383

Ion Ratio Lower Upper

75 100

53 2.9 82.2 123.4#

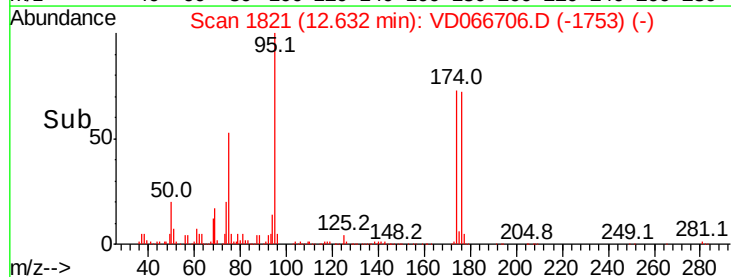
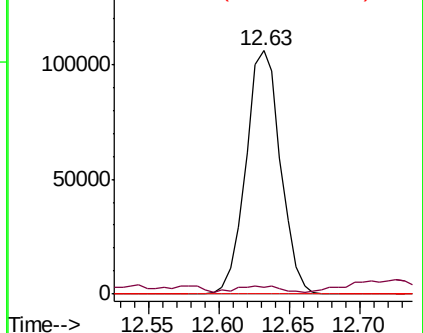
89 0.1 39.6 59.4#

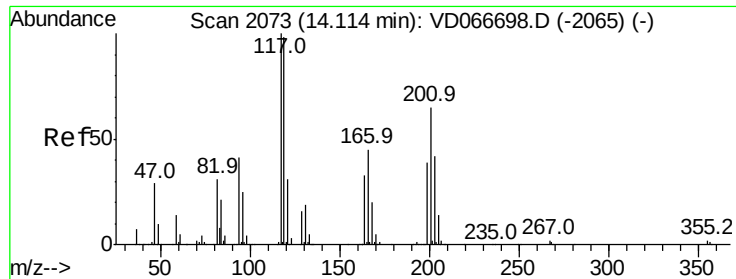


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC





#90

Hexachloroethane

Concen: 1.087 ug/l

RT: 14.12 min Scan# 2074

Delta R.T. 0.01 min

Lab File: VD066706.D

Acq: 15 Sep 2020 19:48

Instrument :

MSVOA_D

ClientSampled :

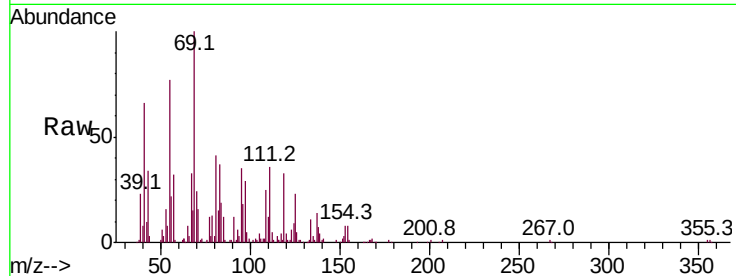
32-34

Tot Ion:117 Resp: 4858

Ion Ratio Lower Upper

117 100

201 14.2 33.1 99.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

6000

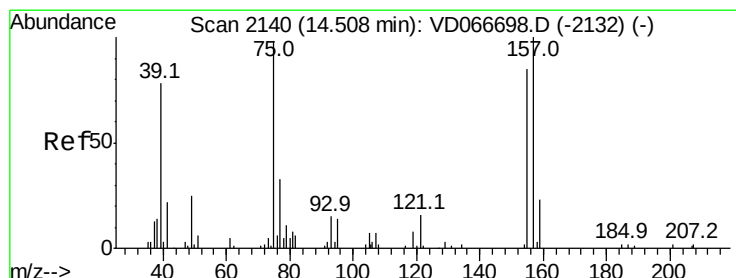
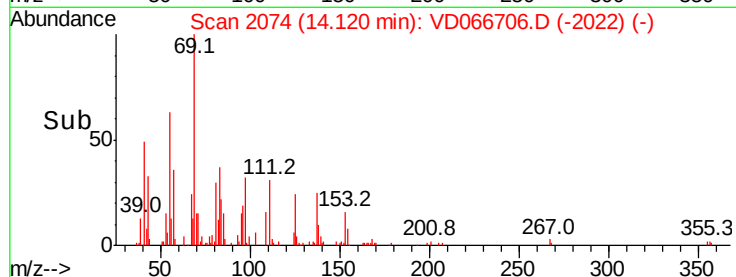
4000

2000

0

14.10 14.15

Time-->



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.257 ug/l

RT: 14.53 min Scan# 2144

Delta R.T. 0.02 min

Lab File: VD066706.D

Acq: 15 Sep 2020 19:48

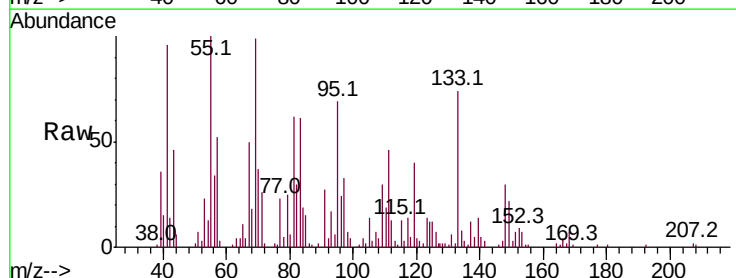
Tgt Ion: 75 Resp: 827

Ion Ratio Lower Upper

75 100

155 72.4 38.9 116.7

157 0.0 46.4 139.2#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

1000

800

600

400

200

0

14.50 14.55

Time-->

