

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD021920\
 Data File : VD065244.D
 Acq On : 19 Feb 2020 17:48
 Operator : VA/SY
 Sample : L1596-02
 Misc : 4.81G/5.00ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Feb 20 03:42:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D021820S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:26:54 2020
 Response via : Initial Calibration

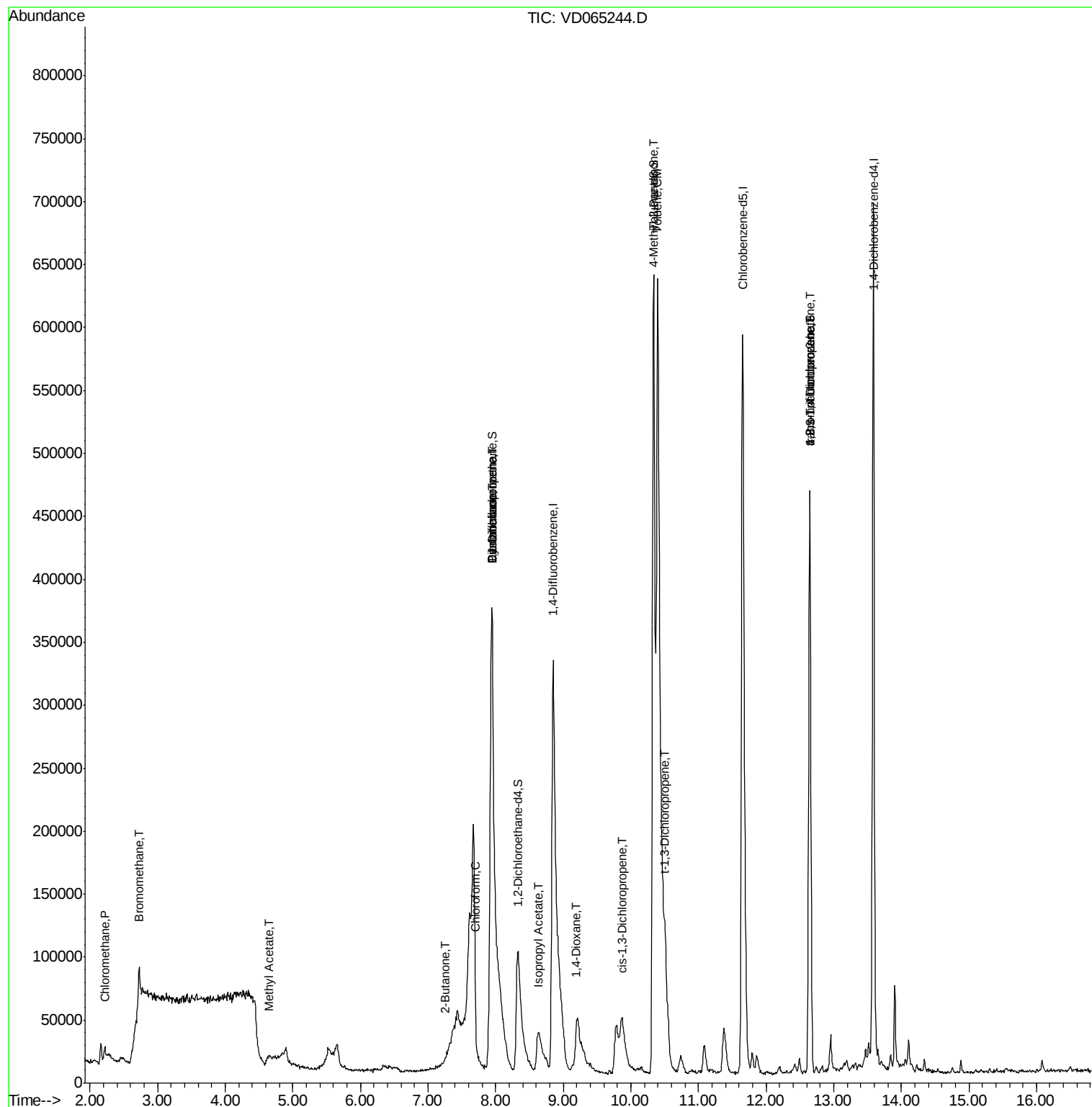
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.94	168	372392	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	8.85	114	693059	50.00	ug/l	-0.02
63) Chlorobenzene-d5	11.66	117	564200	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.59	152	219009	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.33	65	193047	57.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.24%	
35) Dibromofluoromethane	7.94	113	194217	45.96	ug/l	0.02
Spiked Amount	50.000		Recovery	=	91.92%	
50) Toluene-d8	10.34	98	813662	50.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.74%	
62) 4-Bromofluorobenzene	12.65	95	204254	39.91	ug/l	0.01
Spiked Amount	50.000		Recovery	=	79.82%	
Target Compounds				Qvalue		
3) Chloromethane	2.22	50	13987	3.518	ug/l	100
5) Bromomethane	2.73	94	29893	12.230	ug/l	94
13) Acrolein	3.92	56	698	Below Cal		84
18) Methyl Acetate	4.66	43	9654	5.242	ug/l #	62
20) Methylene Chloride	4.95	84	224	Below Cal	#	66
25) 2-Butanone	7.26	43	1129	1.090	ug/l #	49
30) Chloroform	7.70	83	9287	1.375	ug/l	87
31) Cyclohexane	7.95	56	8064	1.224	ug/l #	32
36) 1,1-Dichloropropene	7.94	75	30680	4.550	ug/l #	48
43) Isopropyl Acetate	8.63	43	29119	5.680	ug/l #	51
49) 1,4-Dioxane	9.19	88	153	5.357	ug/l #	1
51) 4-Methyl-2-Pentanone	10.33	43	3208	1.232	ug/l #	36
52) Toluene	10.40	92	391152	33.200	ug/l	100
53) t-1,3-Dichloropropene	10.50	75	59154	9.944	ug/l #	46
54) cis-1,3-Dichloropropene	9.87	75	35256	4.908	ug/l #	60
76) 1,2,3-Trichloropropane	12.64	75	100818	54.105	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	100818	116.821	ug/l #	11

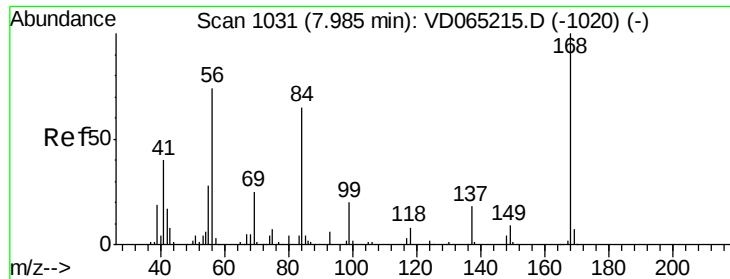
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:26:54 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.94 min Scan# 1024

Delta R.T. -0.04 min

Lab File: VD065244.D

Acq: 19 Feb 2020 17:48

Instrument :

MSVOA_D

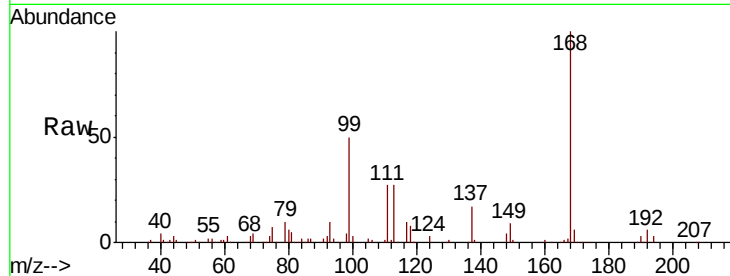
ClientSampleId :

Tot Ion:168 Resp: 372392

Ion Ratio Lower Upper

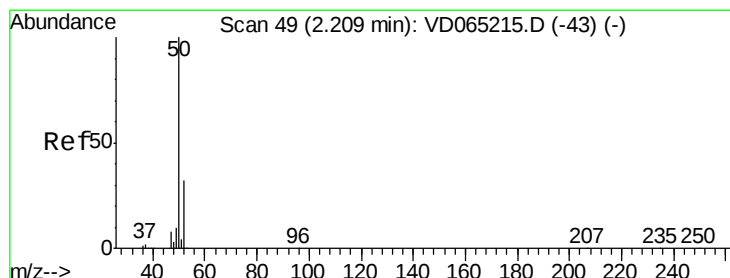
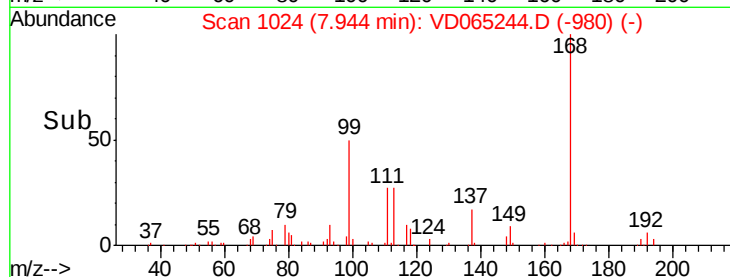
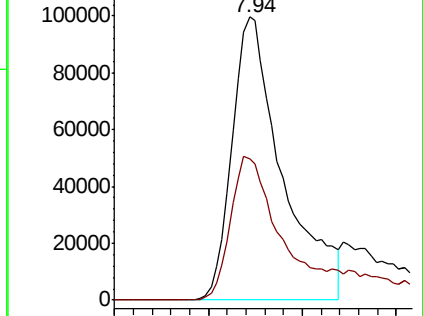
168 100

99 50.0 41.4 62.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: 3.518 ug/l

RT: 2.22 min Scan# 51

Delta R.T. 0.01 min

Lab File: VD065244.D

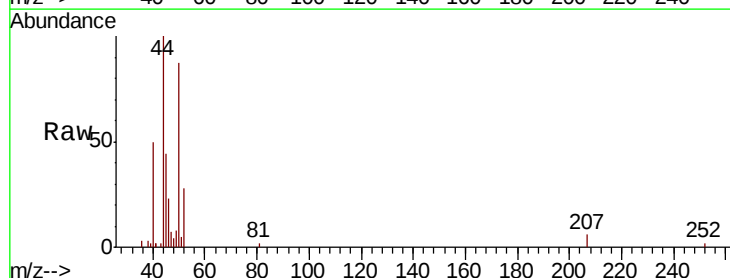
Acq: 19 Feb 2020 17:48

Tgt Ion: 50 Resp: 13987

Ion Ratio Lower Upper

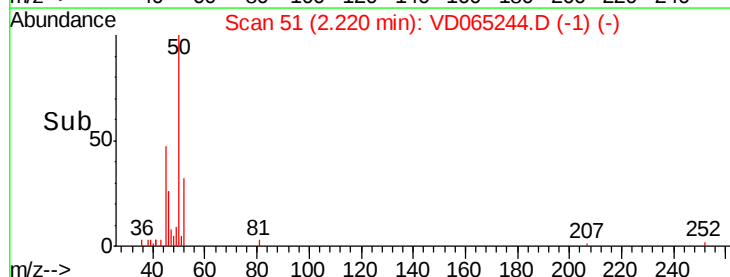
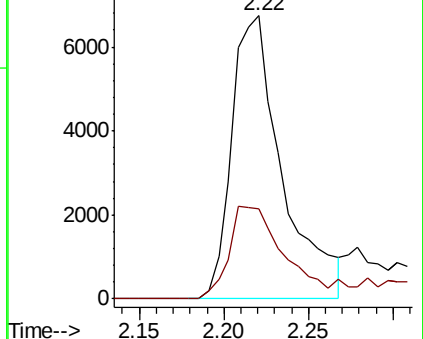
50 100

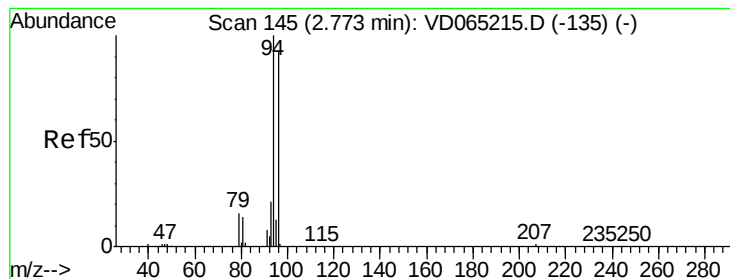
52 31.7 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 12.230 ug/l

RT: 2.73 min Scan# 137

Delta R.T. -0.05 min

Lab File: VD065244.D

Acq: 19 Feb 2020 17:48

Instrument :

MSVOA_D

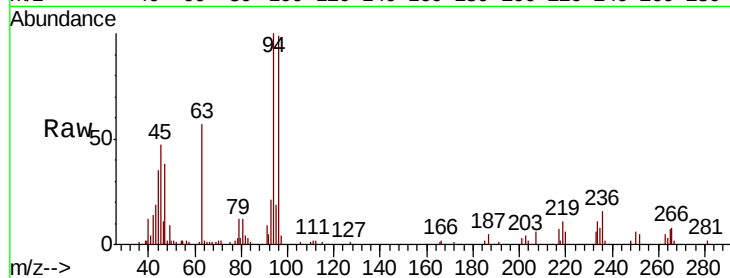
ClientSampled :

Tot Ion: 94 Resp: 29893

Ion Ratio Lower Upper

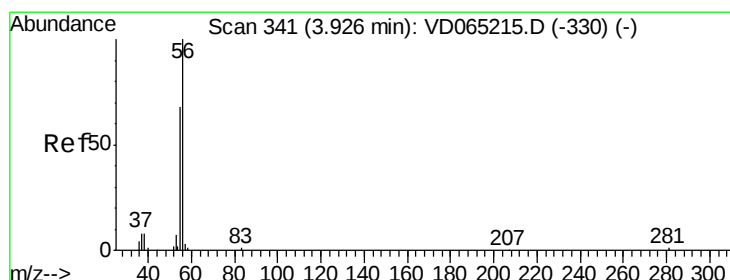
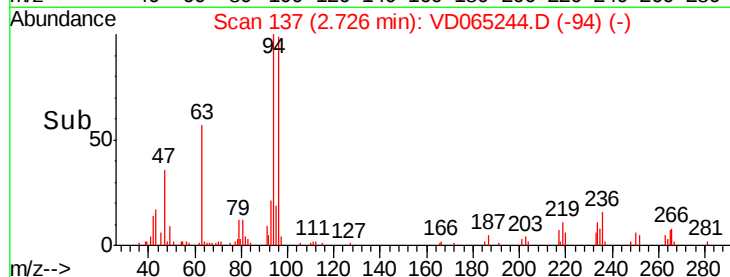
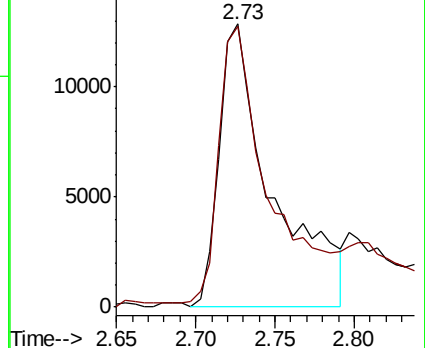
94 100

96 98.7 74.2 111.4



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#13

Acrolein

Concen: Below Cal

RT: 3.92 min Scan# 340

Delta R.T. -0.01 min

Lab File: VD065244.D

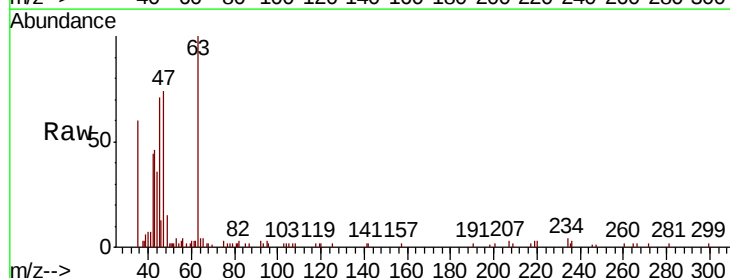
Acq: 19 Feb 2020 17:48

Tgt Ion: 56 Resp: 698

Ion Ratio Lower Upper

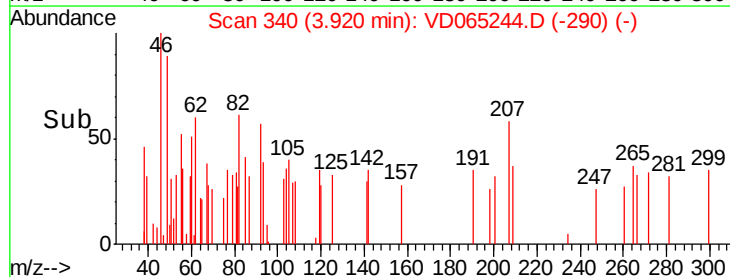
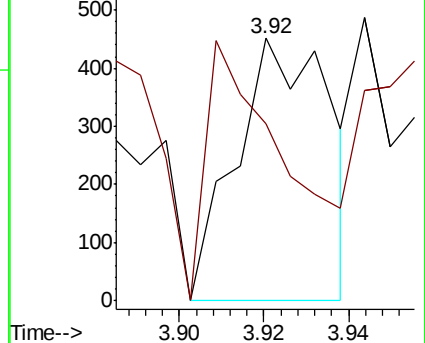
56 100

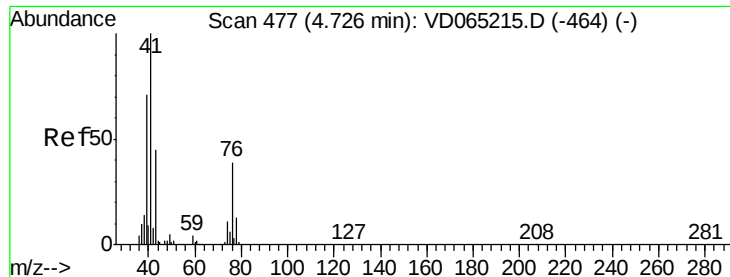
55 84.1 56.6 85.0



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

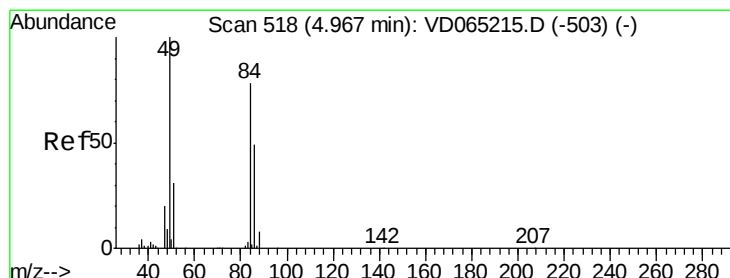
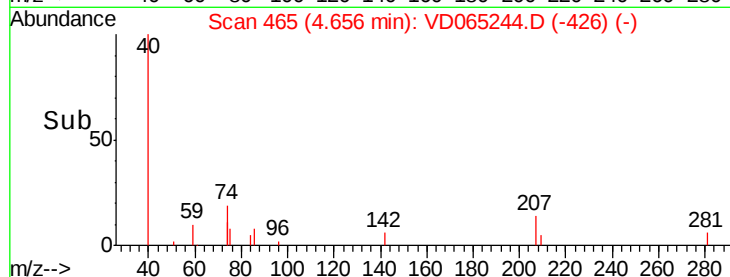
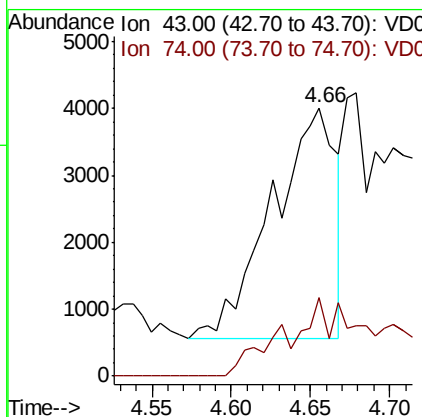
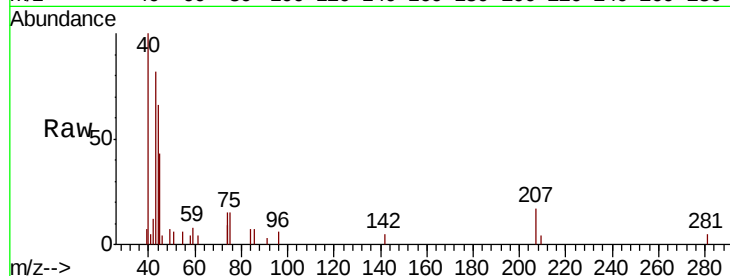




#18
Methyl Acetate
Concen: 5.242 ug/l
RT: 4.66 min Scan# 465
Delta R.T. -0.07 min
Lab File: VD065244.D
Acq: 19 Feb 2020 17:48

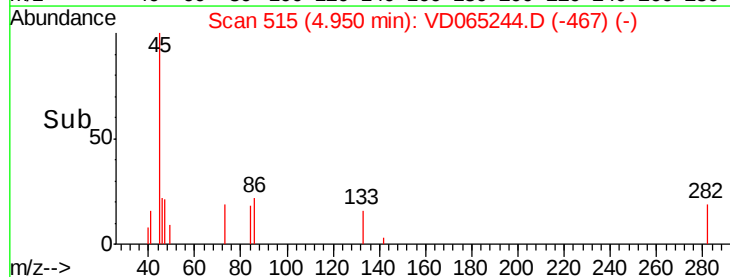
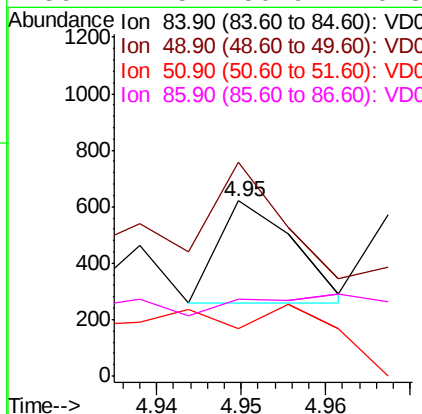
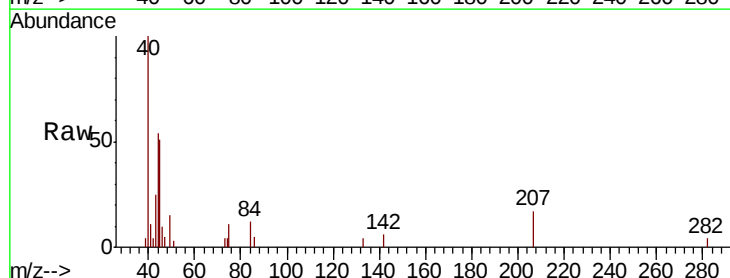
Instrument :
MSVOA_D
ClientSampleId :

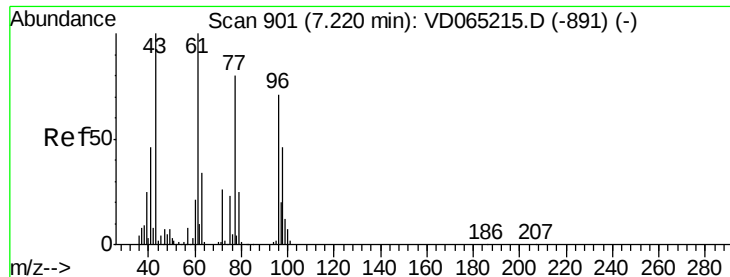
Tot Ion: 43 Resp: 9654
Ion Ratio Lower Upper
43 100
74 5.7 19.4 29.2#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.95 min Scan# 515
Delta R.T. -0.02 min
Lab File: VD065244.D
Acq: 19 Feb 2020 17:48

Tgt Ion: 84 Resp: 224
Ion Ratio Lower Upper
84 100
49 114.4 103.1 154.7
51 0.6 31.7 47.5#
86 17.5 50.9 76.3#

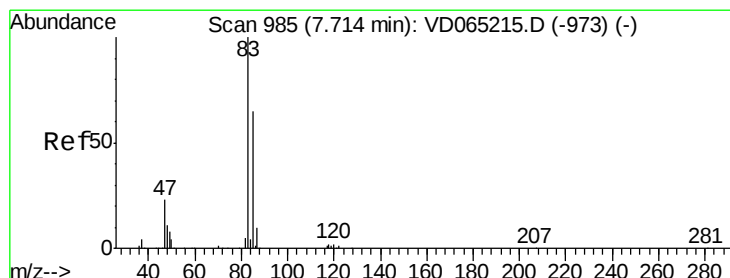
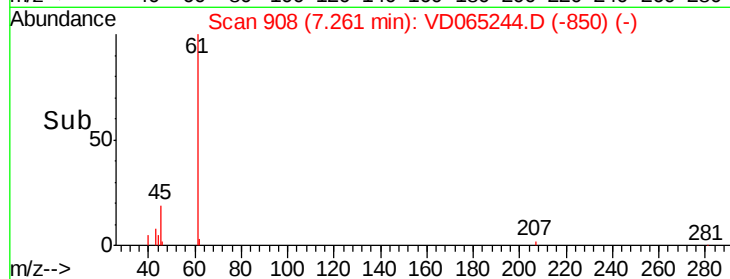
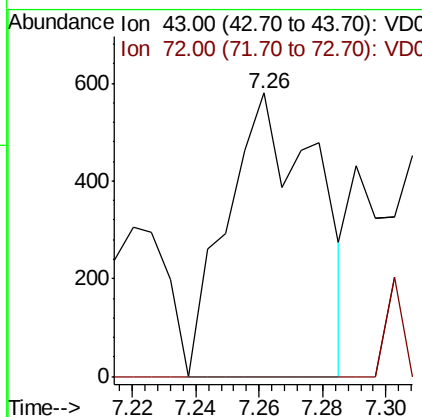
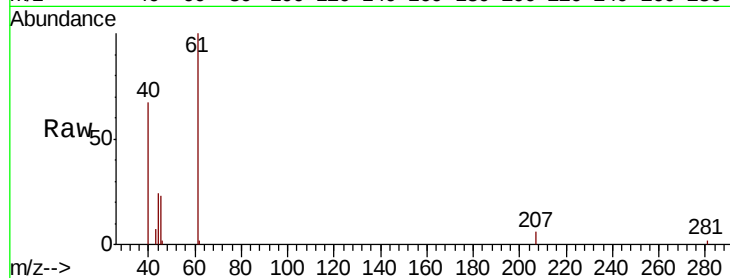




#25
2-Butanone
Concen: 1.090 ug/l
RT: 7.26 min Scan# 908
Delta R.T. 0.04 min
Lab File: VD065244.D
Acq: 19 Feb 2020 17:48

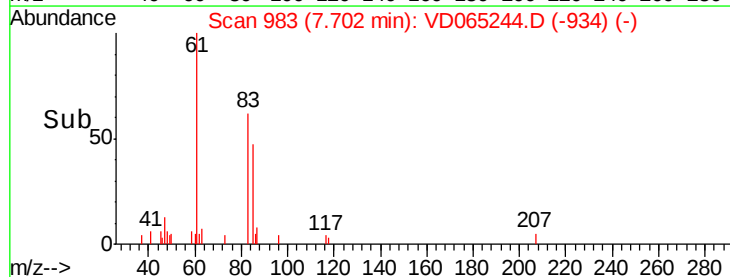
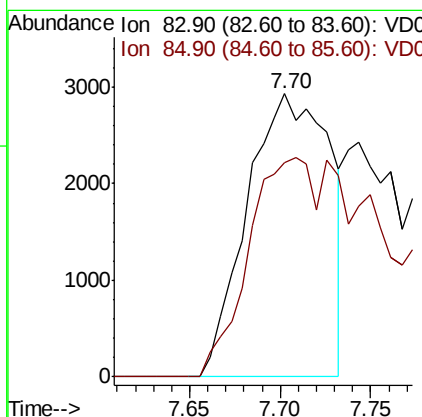
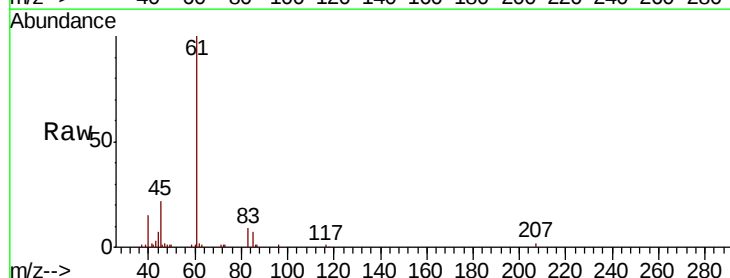
Instrument :
MSVOA_D
ClientSampleId :

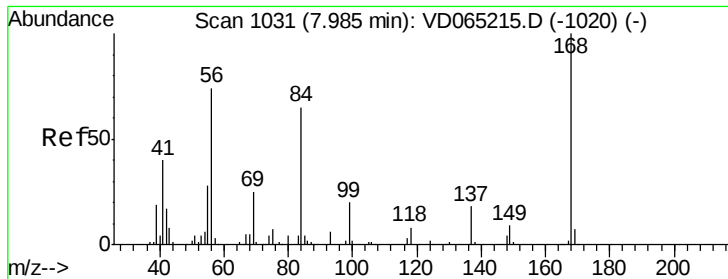
Tot Ion: 43 Resp: 1129
Ion Ratio Lower Upper
43 100
72 0.0 20.9 31.3#



#30
Chloroform
Concen: 1.375 ug/l
RT: 7.70 min Scan# 983
Delta R.T. -0.01 min
Lab File: VD065244.D
Acq: 19 Feb 2020 17:48

Tgt Ion: 83 Resp: 9287
Ion Ratio Lower Upper
83 100
85 75.7 52.3 78.5





#31

Cyclohexane

Concen: 1.224 ug/l

RT: 7.95 min Scan# 1025

Delta R.T. -0.04 min

Lab File: VD065244.D

Acq: 19 Feb 2020 17:48

Instrument :

MSVOA_D

ClientSampled :

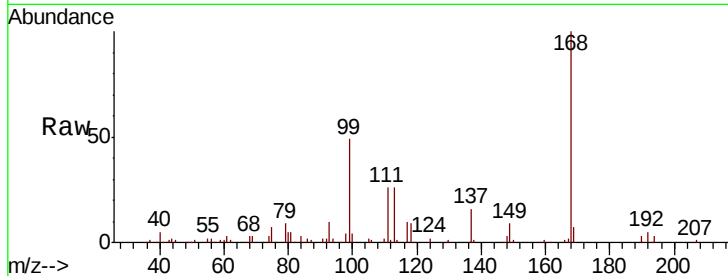
Tot Ion: 56 Resp: 8064

Ion Ratio Lower Upper

56 100

69 138.2 27.4 41.0#

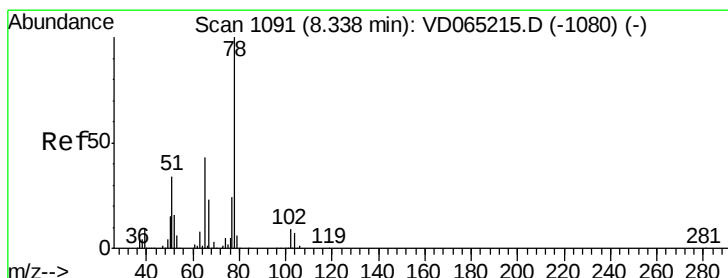
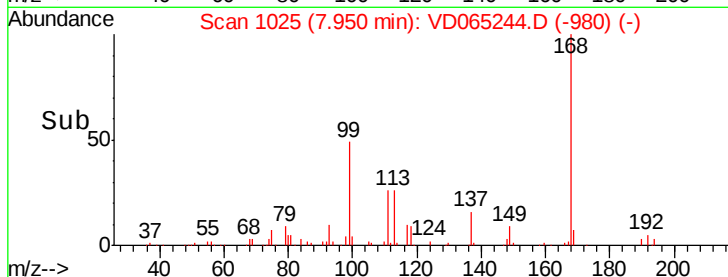
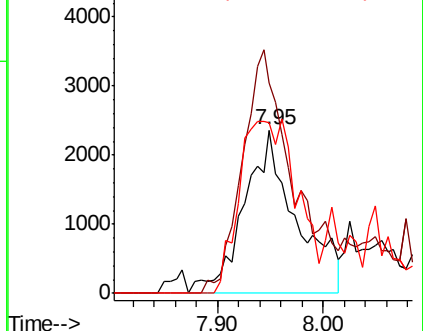
84 111.8 71.1 106.7#



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: 57.625 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD065244.D

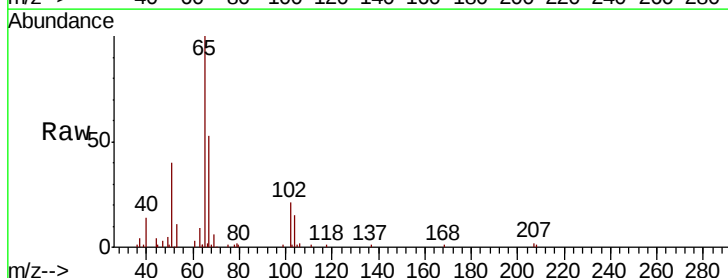
Acq: 19 Feb 2020 17:48

Tgt Ion: 65 Resp: 193047

Ion Ratio Lower Upper

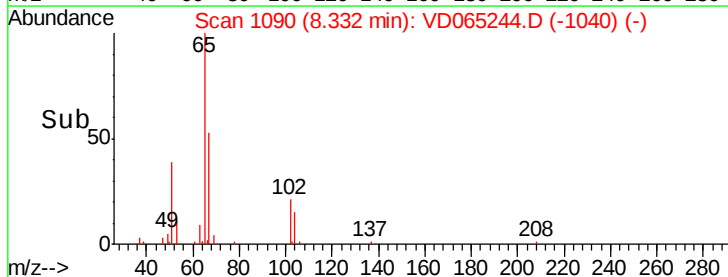
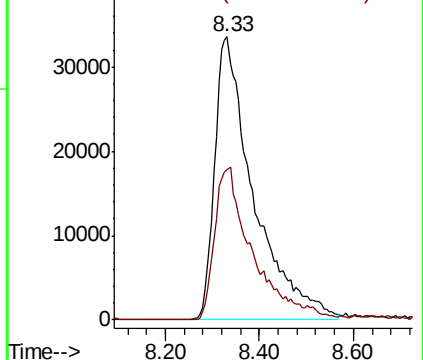
65 100

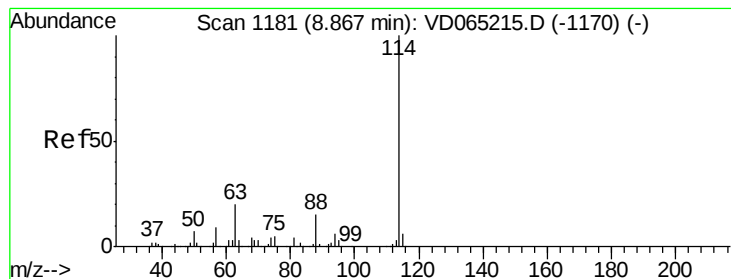
67 50.8 0.0 106.8



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: 8.85 min Scan# 1178

Delta R.T. -0.02 min

Lab File: VD065244.D

Acq: 19 Feb 2020 17:48

Instrument :

MSVOA_D

ClientSampleId :

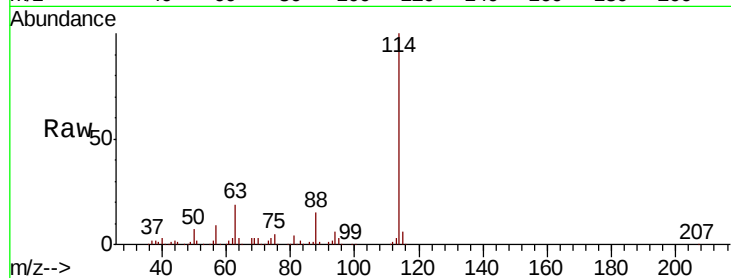
Tot Ion:114 Resp: 693059

Ion Ratio Lower Upper

114 100

63 19.4 0.0 39.4

88 14.7 0.0 30.4

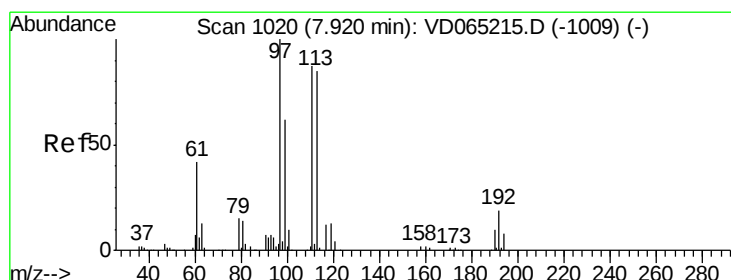
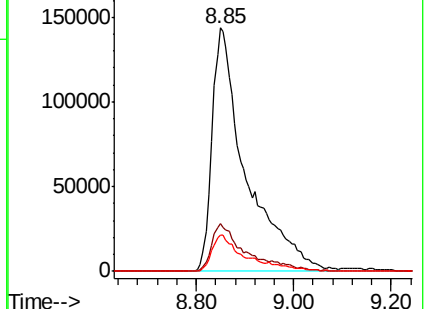
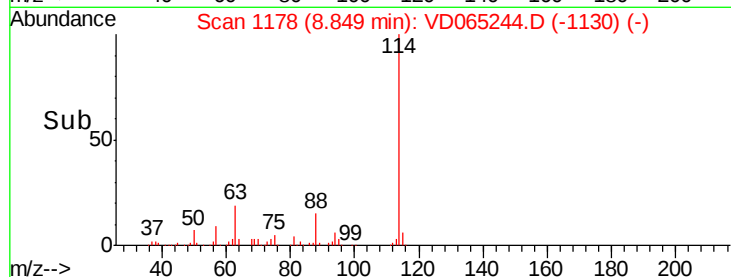


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V

8.85



#35

Dibromofluoromethane

Concen: 45.959 ug/l

RT: 7.94 min Scan# 1023

Delta R.T. 0.02 min

Lab File: VD065244.D

Acq: 19 Feb 2020 17:48

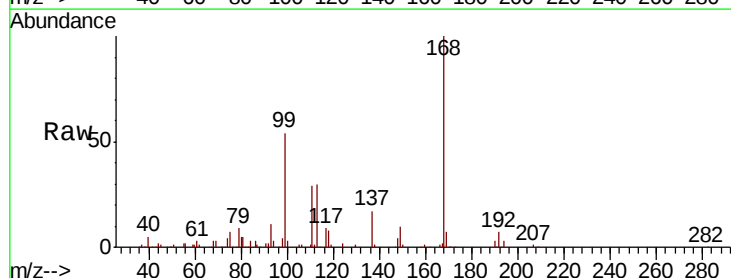
Tgt Ion:113 Resp: 194217

Ion Ratio Lower Upper

113 100

111 98.1 82.9 124.3

192 7.0 17.3 25.9#

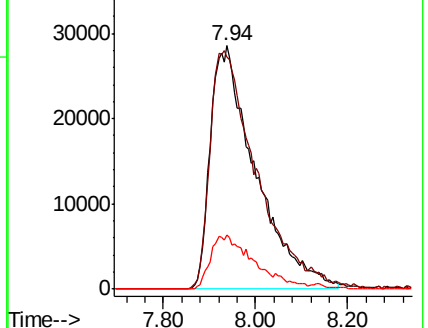
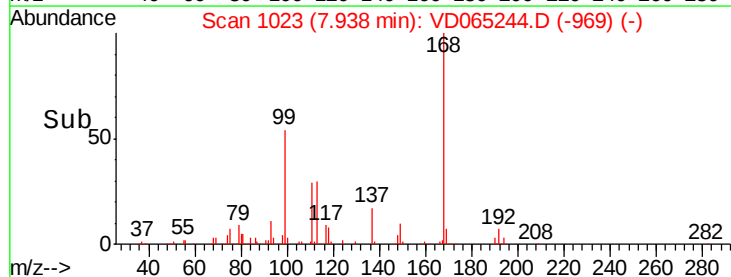


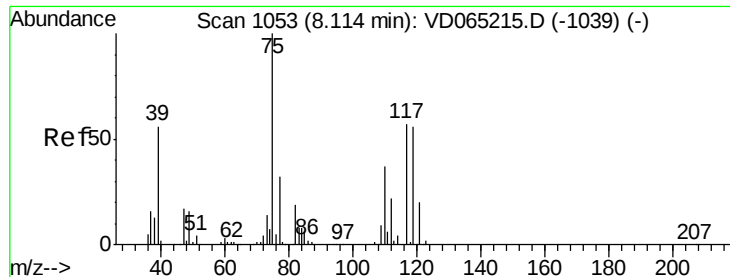
Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

7.94





#36

1,1-Dichloropropene

Concen: 4.550 ug/l

RT: 7.94 min Scan# 1024

Delta R.T. -0.17 min

Lab File: VD065244.D

Acq: 19 Feb 2020 17:48

Instrument :

MSVOA_D

ClientSampled :

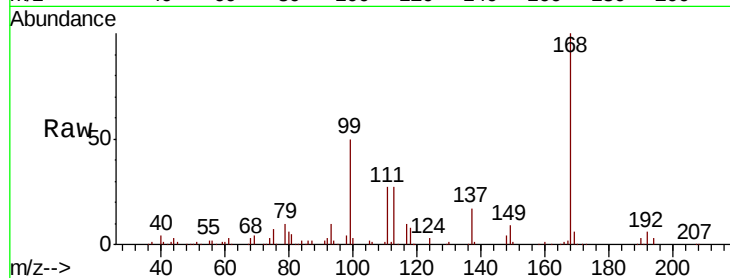
Tot Ion: 75 Resp: 30680

Ion Ratio Lower Upper

75 100

110 7.6 17.9 53.7#

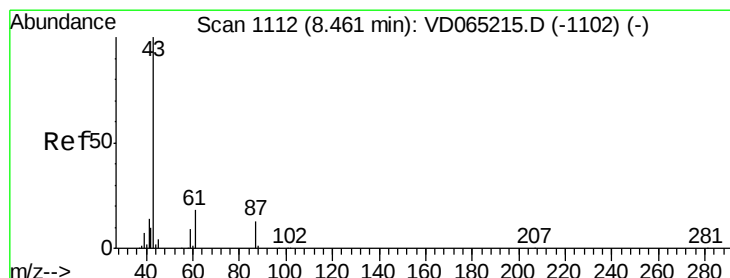
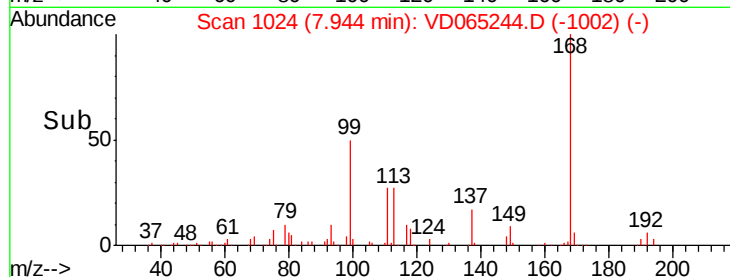
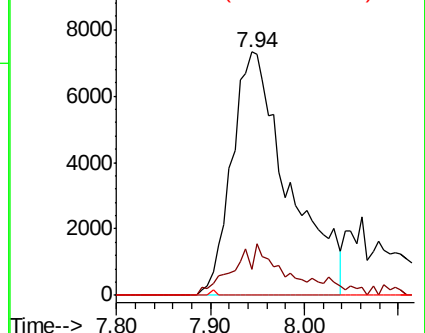
77 0.0 25.1 37.7#



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



#43

Isopropyl Acetate

Concen: 5.680 ug/l

RT: 8.63 min Scan# 1140

Delta R.T. 0.16 min

Lab File: VD065244.D

Acq: 19 Feb 2020 17:48

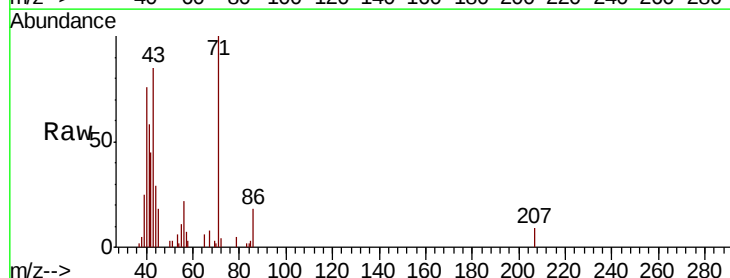
Tgt Ion: 43 Resp: 29119

Ion Ratio Lower Upper

43 100

61 0.0 24.6 36.8#

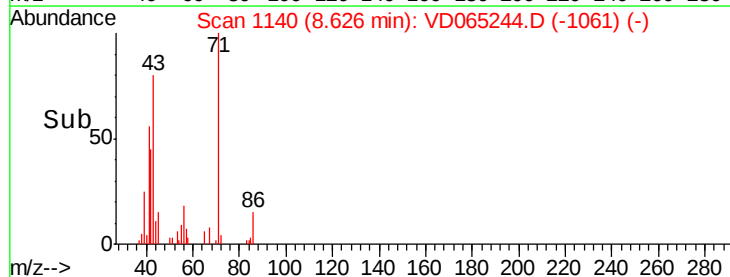
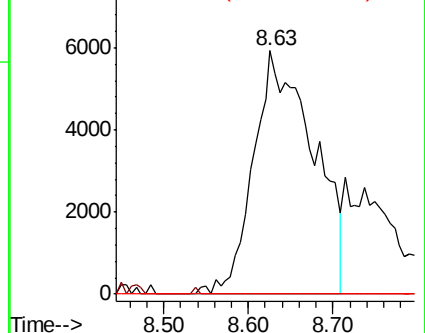
87 0.0 10.6 16.0#

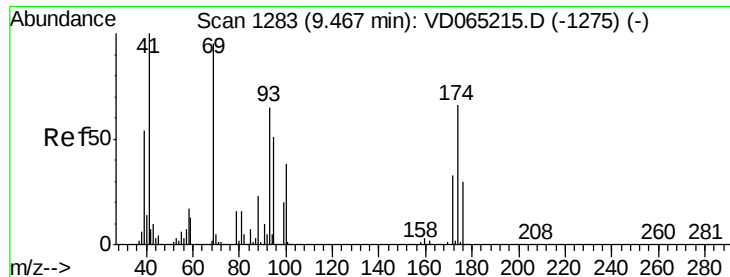


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 61.00 (60.70 to 61.70): VDC

Ion 87.00 (86.70 to 87.70): VDC

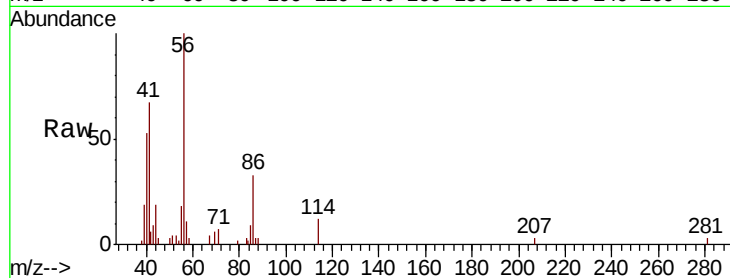




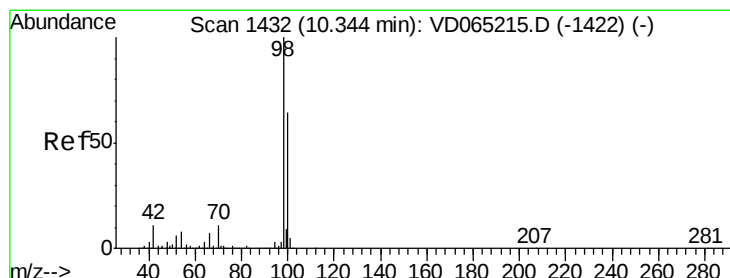
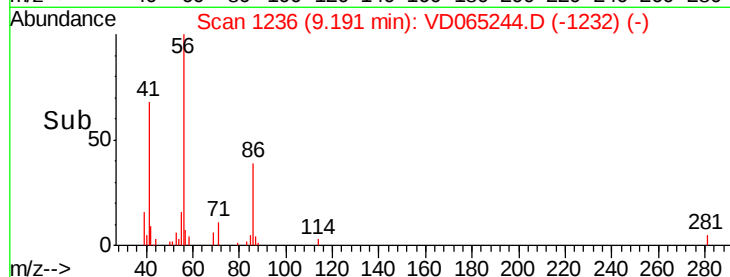
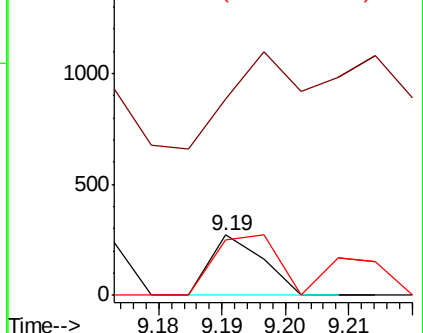
#49
1,4-Dioxane
Concen: 5.357 ug/l
RT: 9.19 min Scan# 1236
Delta R.T. -0.28 min
Lab File: VD065244.D
Acq: 19 Feb 2020 17:48

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 88 Resp: 153
Ion Ratio Lower Upper
88 100
43 213.7 28.5 42.7#
58 120.3 58.6 87.8#

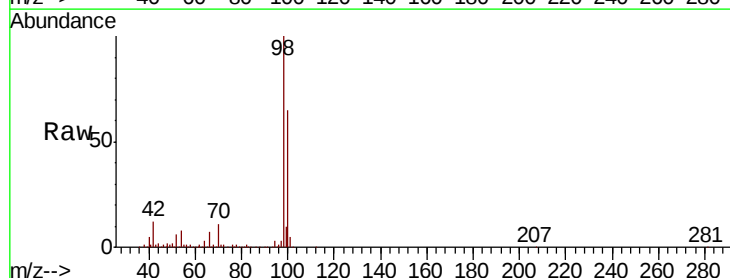


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC

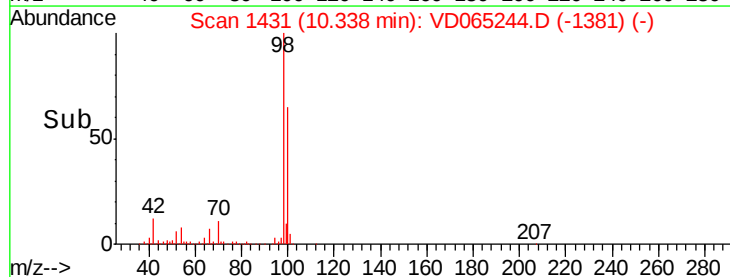
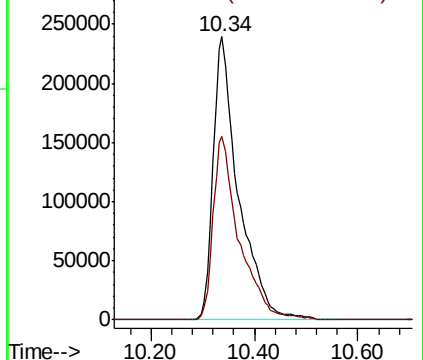


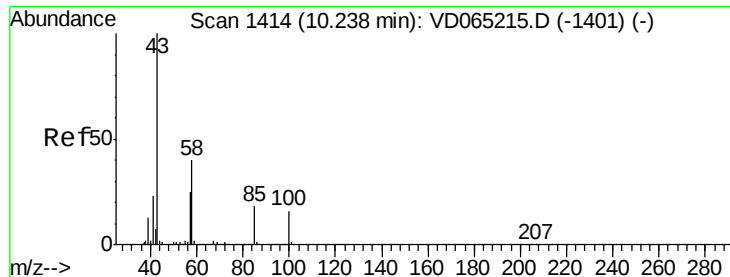
#50
Toluene-d8
Concen: 50.366 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.01 min
Lab File: VD065244.D
Acq: 19 Feb 2020 17:48

Tgt Ion: 98 Resp: 813662
Ion Ratio Lower Upper
98 100
100 66.6 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VDC
Ion 100.00 (99.70 to 100.70): VDC

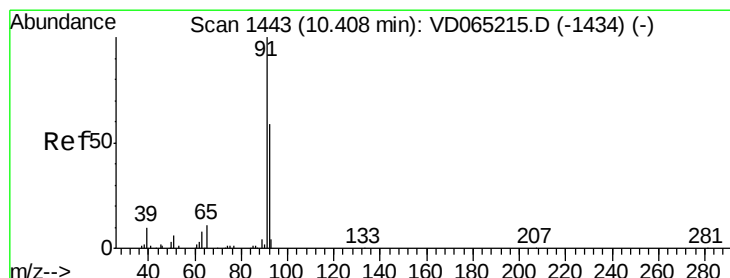
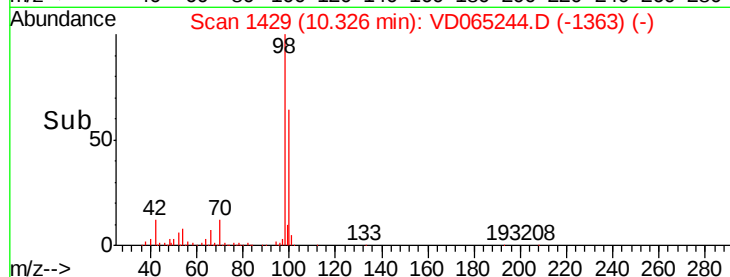
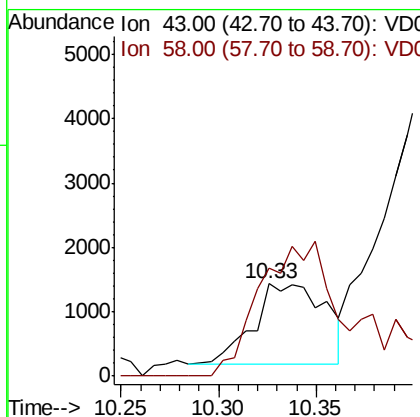
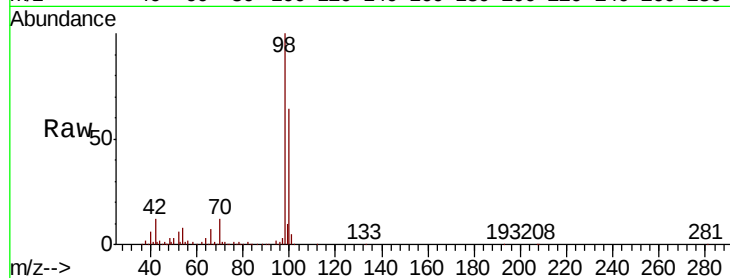




#51
4-Methyl-2-Pentanone
Concen: 1.232 ug/l
RT: 10.33 min Scan# 1429
Delta R.T. 0.09 min
Lab File: VD065244.D
Acq: 19 Feb 2020 17:48

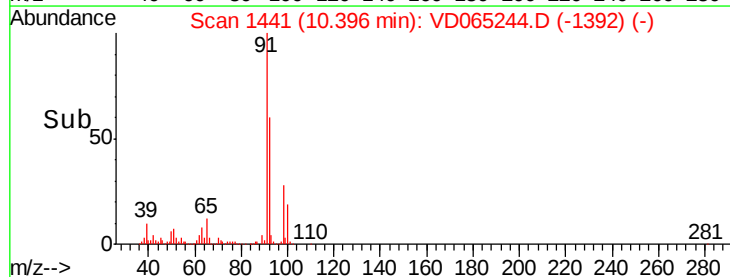
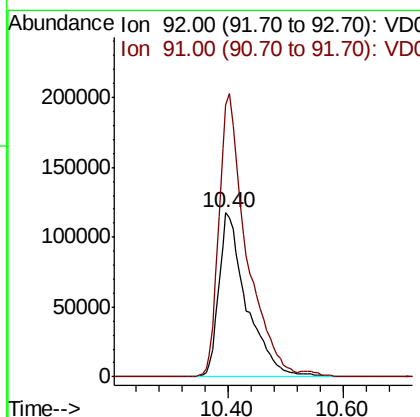
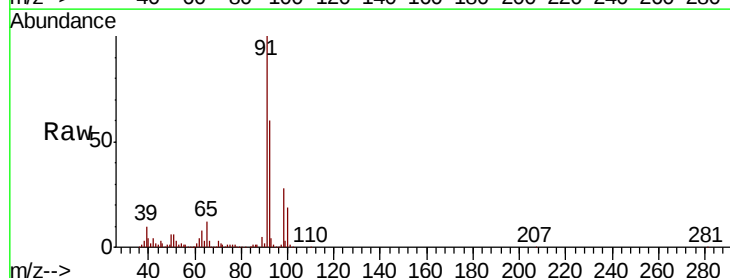
Instrument :
MSVOA_D
ClientSampled :

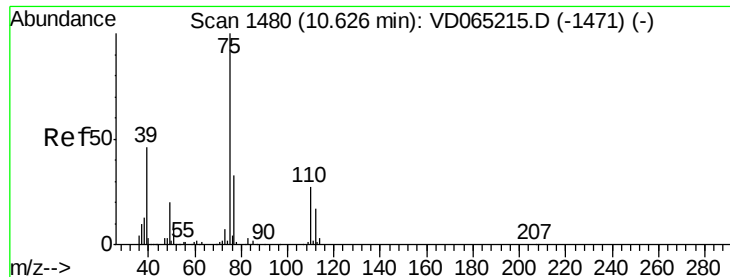
Tot Ion: 43 Resp: 3208
Ion Ratio Lower Upper
43 100
58 0.0 31.1 46.7#



#52
Toluene
Concen: 33.200 ug/l
RT: 10.40 min Scan# 1441
Delta R.T. -0.01 min
Lab File: VD065244.D
Acq: 19 Feb 2020 17:48

Tgt Ion: 92 Resp: 391152
Ion Ratio Lower Upper
92 100
91 170.2 136.3 204.5





#53

t-1,3-Dichloropropene

Concen: 9.944 ug/l

RT: 10.50 min Scan# 1459

Delta R.T. -0.12 min

Lab File: VD065244.D

Acq: 19 Feb 2020 17:48

Instrument :

MSVOA_D

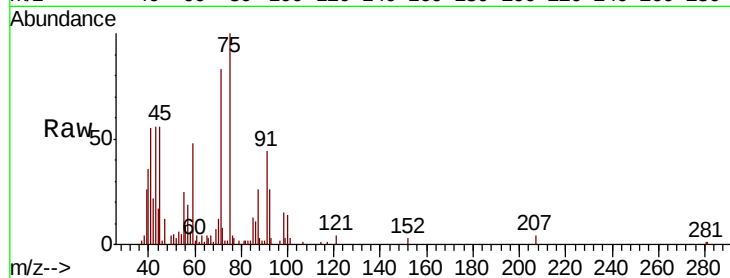
ClientSampleId :

Tot Ion: 75 Resp: 59154

Ion Ratio Lower Upper

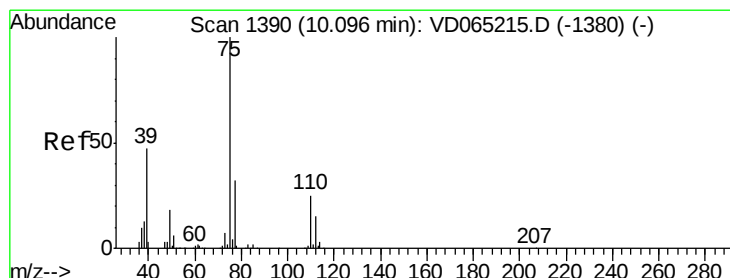
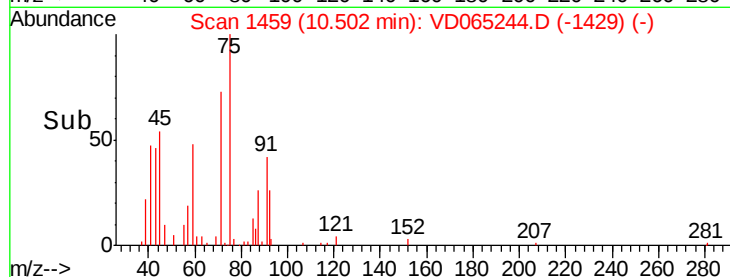
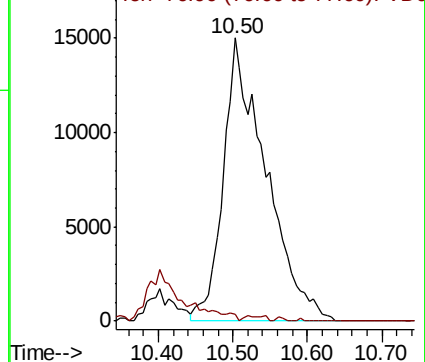
75 100

77 2.6 26.6 40.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC



#54

cis-1,3-Dichloropropene

Concen: 4.908 ug/l

RT: 9.87 min Scan# 1352

Delta R.T. -0.22 min

Lab File: VD065244.D

Acq: 19 Feb 2020 17:48

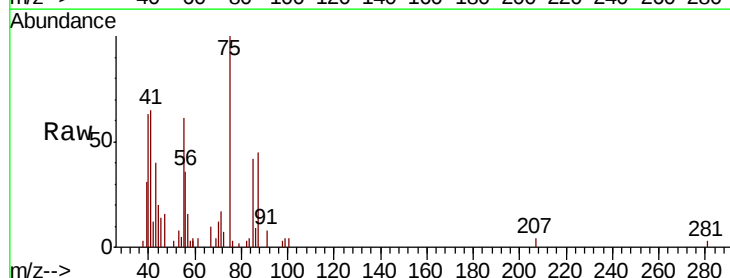
Tgt Ion: 75 Resp: 35256

Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.8#

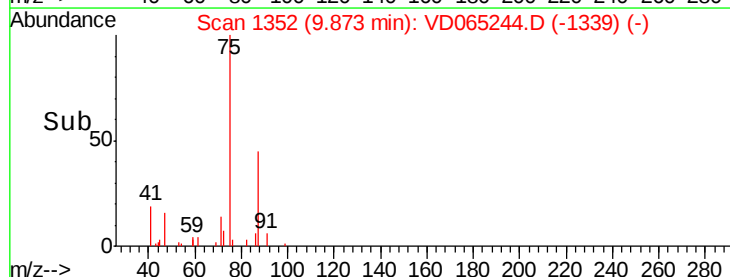
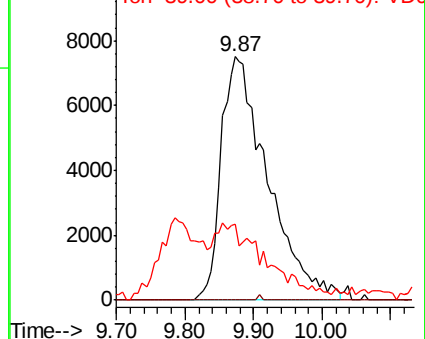
39 28.2 37.3 55.9#

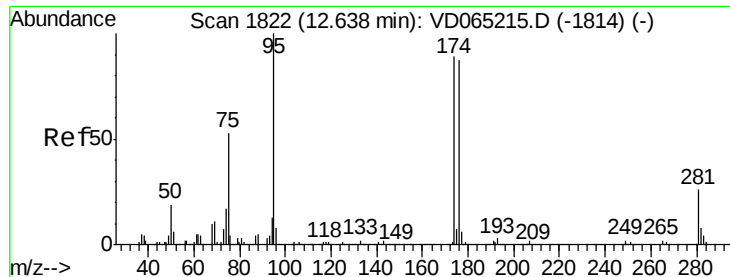


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC

Ion 39.00 (38.70 to 39.70): VDC

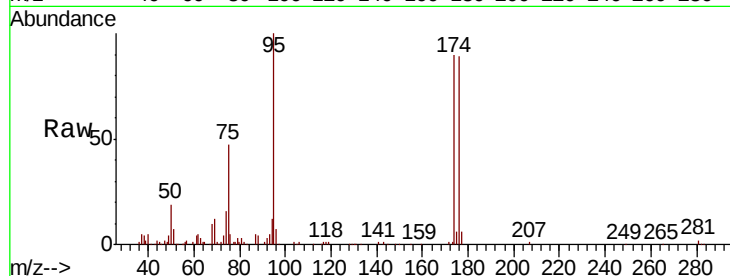




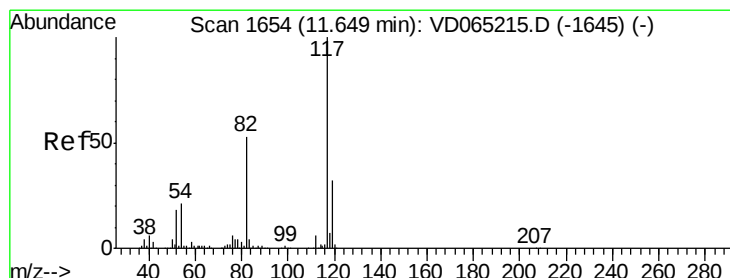
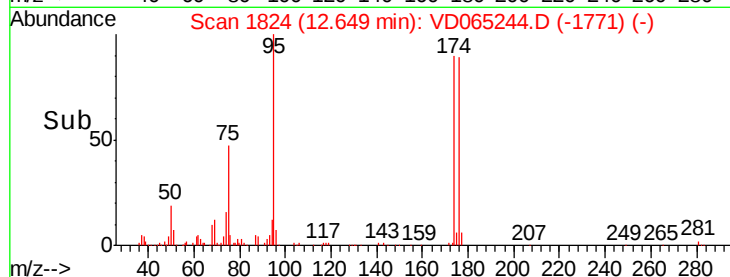
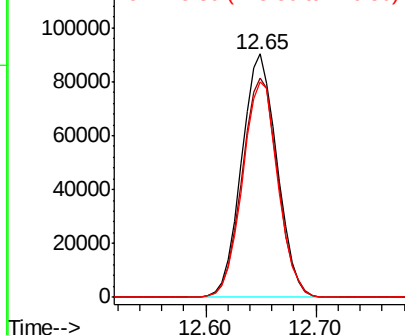
#62
4-Bromofluorobenzene
Concen: 39.911 ug/l
RT: 12.65 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VD065244.D
Acq: 19 Feb 2020 17:48

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
95	100		
174	90.9	0.0	178.0
176	88.3	0.0	174.4

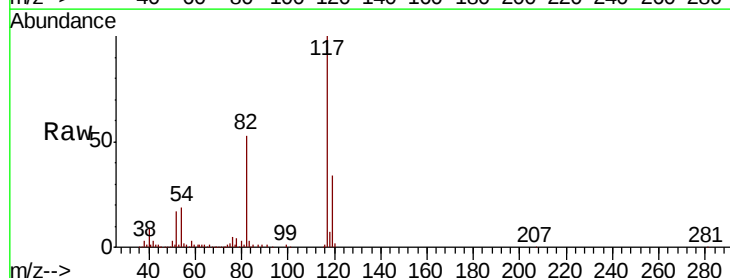


Abundance Ion 94.90 (94.60 to 95.60): V
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

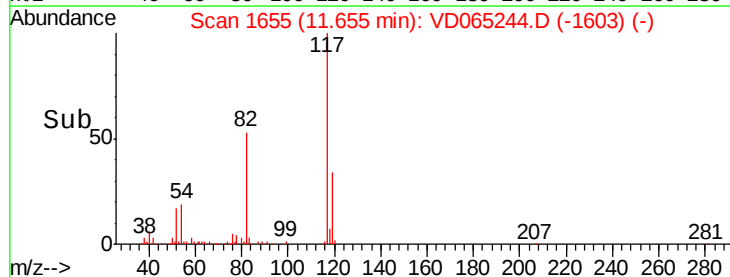
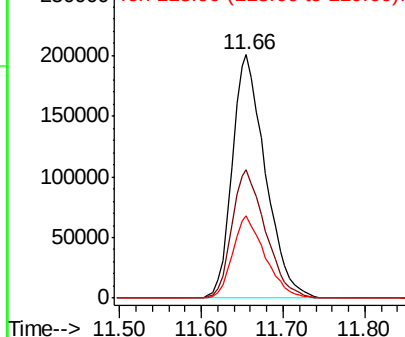


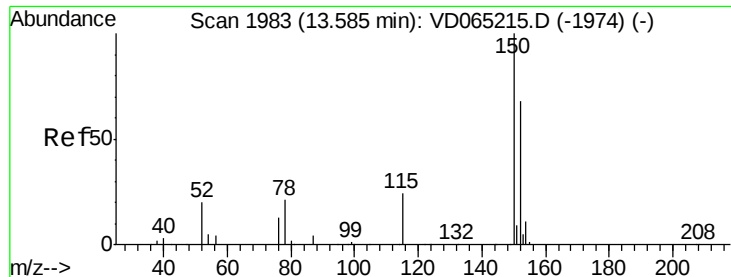
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.66 min Scan# 1655
Delta R.T. 0.01 min
Lab File: VD065244.D
Acq: 19 Feb 2020 17:48

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.9	42.7	64.1
119	33.6	25.5	38.3



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: 13.59 min Scan# 1984

Delta R.T. 0.01 min

Lab File: VD065244.D

Acq: 19 Feb 2020 17:48

Instrument :

MSVOA_D

ClientSampleId :

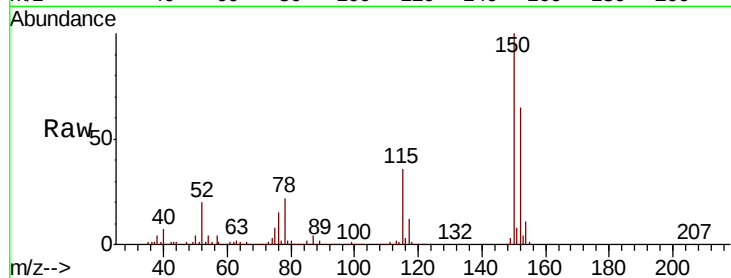
Tot Ion:152 Resp: 219009

Ion Ratio Lower Upper

152 100

115 54.1 27.6 82.8

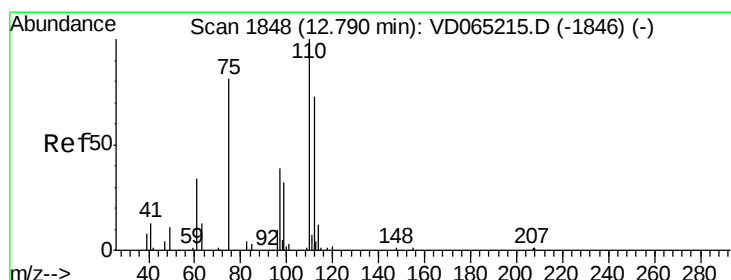
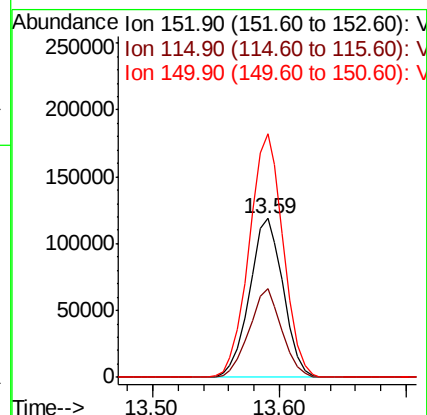
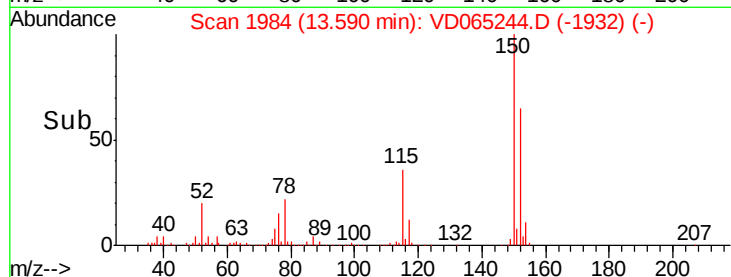
150 154.5 0.0 347.4



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



#76

1,2,3-Trichloropropane

Concen: 54.105 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. -0.15 min

Lab File: VD065244.D

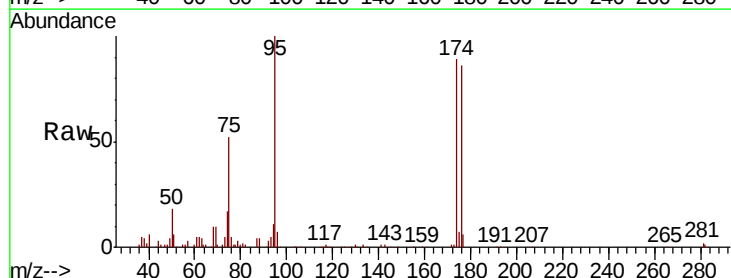
Acq: 19 Feb 2020 17:48

Tgt Ion: 75 Resp: 100818

Ion Ratio Lower Upper

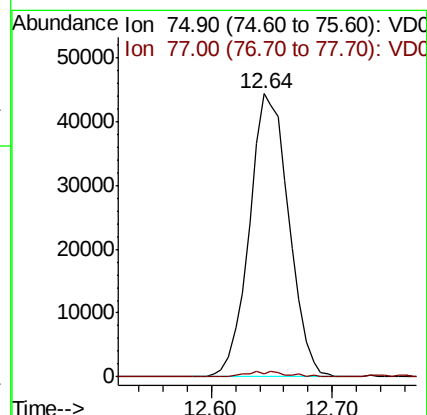
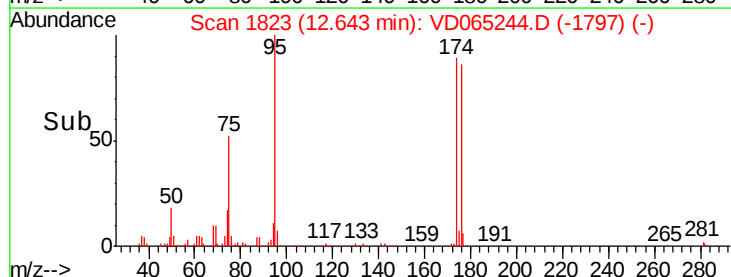
75 100

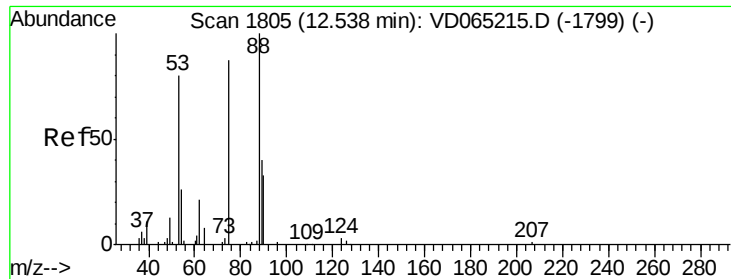
77 1.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 116.821 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.11 min

Lab File: VD065244.D

Acq: 19 Feb 2020 17:48

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 75 Resp: 100818

Ion Ratio Lower Upper

75 100

53 0.1 77.6 116.4#

89 0.0 37.2 55.8#

