

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100220\
 Data File : VD067036.D
 Acq On : 02 Oct 2020 15:31
 Operator : VA/SY
 Sample : L4213-08
 Misc : 5.02G/5.00ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 B-16(11-13)

Quant Time: Oct 03 04:48:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100120S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 15:19:17 2020
 Response via : Initial Calibration

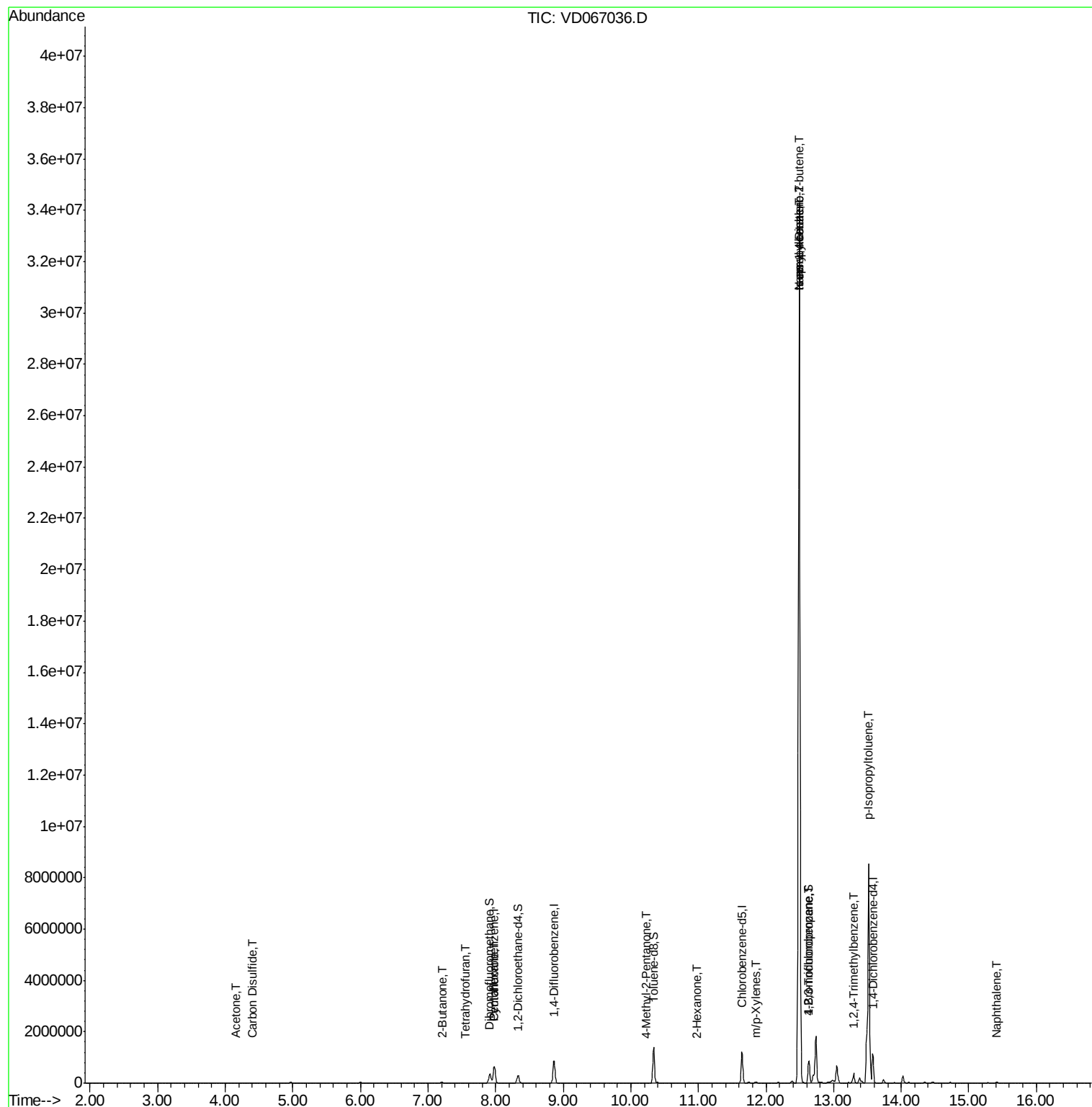
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	493595	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	803768	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	715270	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	304886	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.33	65	236639	49.77	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.54%	
35) Dibromofluoromethane	7.91	113	257891	49.01	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.02%	
50) Toluene-d8	10.34	98	952775	49.69	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.38%	
62) 4-Bromofluorobenzene	12.64	95	294020	45.17	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.34%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.98	85	4047	Below Cal		70
5) Bromomethane	2.77	94	2348	Below Cal		92
11) Tert butyl alcohol	5.23	59	140	Below Cal	#	72
16) Acetone	4.16	43	11849	16.327	ug/l #	84
17) Carbon Disulfide	4.40	76	23039	1.613	ug/l	100
20) Methylene Chloride	4.97	84	17743	Below Cal	#	85
25) 2-Butanone	7.22	43	3011	2.926	ug/l #	73
26) 2,2-Dichloropropane	7.20	77	2957	Below Cal	#	72
29) Tetrahydrofuran	7.56	42	681	1.151	ug/l #	38
31) Cyclohexane	7.98	56	14755	2.067	ug/l #	17
51) 4-Methyl-2-Pentanone	10.22	43	2571	1.080	ug/l	99
59) 2-Hexanone	10.98	43	2004	1.261	ug/l	66
68) m/p-Xylenes	11.84	106	11666	1.228	ug/l	96
73) Isopropylbenzene	12.49	105	1770295	85.512	ug/l #	59
74) N-amyl acetate	12.49	43	611458	164.301	ug/l #	8
76) 1,2,3-Trichloropropane	12.63	75	144707	54.490	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.49	75	58391	54.817	ug/l #	1
84) 1,2,4-Trimethylbenzene	13.29	105	26388	1.512	ug/l #	30
86) p-Isopropyltoluene	13.52	119	4954105	257.620	ug/l	97
95) Naphthalene	15.41	128	30395	3.313	ug/l	99

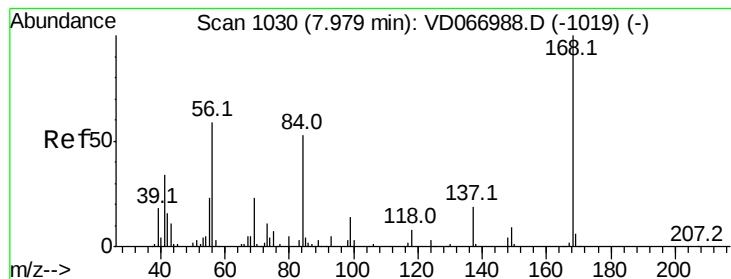
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD067036.D

Acq: 02 Oct 2020 15:31

Instrument :

MSVOA_D

ClientSampleId :

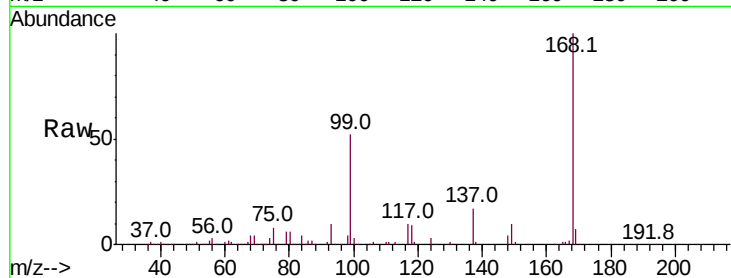
B-16(11-13)

Tot Ion:168 Resp: 493595

Ion Ratio Lower Upper

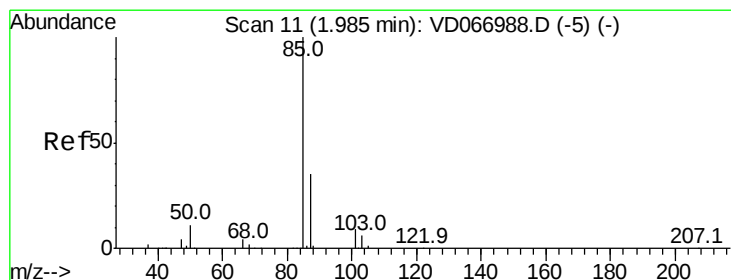
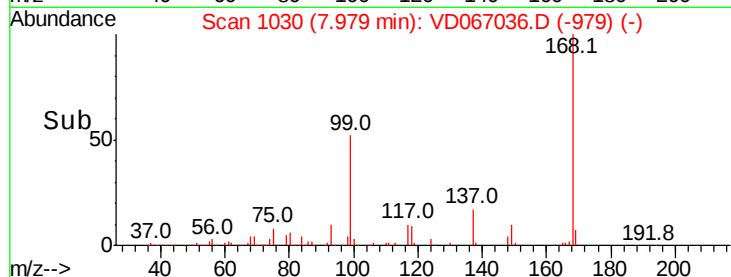
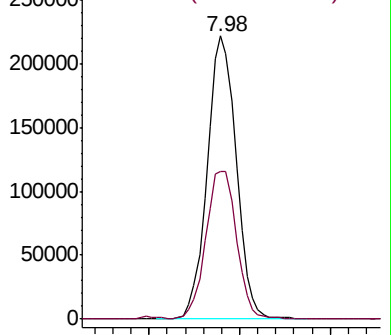
168 100

99 52.1 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.98 min Scan# 10

Delta R.T. -0.01 min

Lab File: VD067036.D

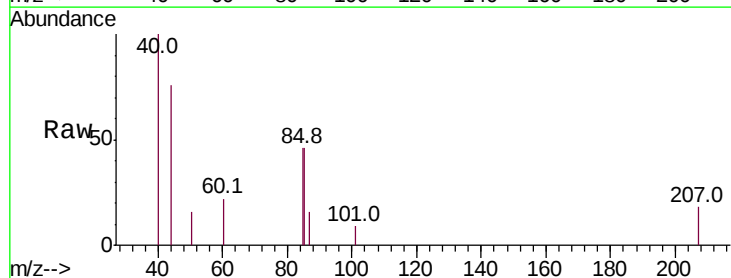
Acq: 02 Oct 2020 15:31

Tgt Ion: 85 Resp: 4047

Ion Ratio Lower Upper

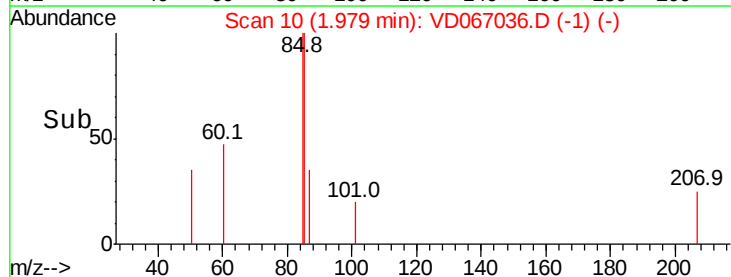
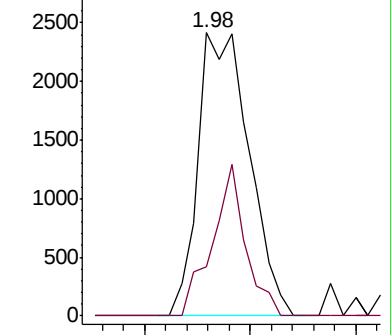
85 100

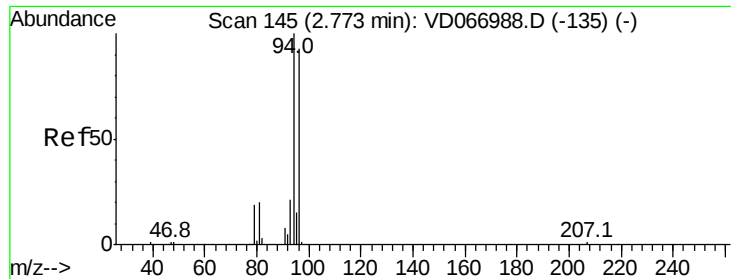
87 17.5 17.3 52.0



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 145

Delta R.T. 0.00 min

Lab File: VD067036.D

Acq: 02 Oct 2020 15:31

Instrument :

MSVOA_D

ClientSampleId :

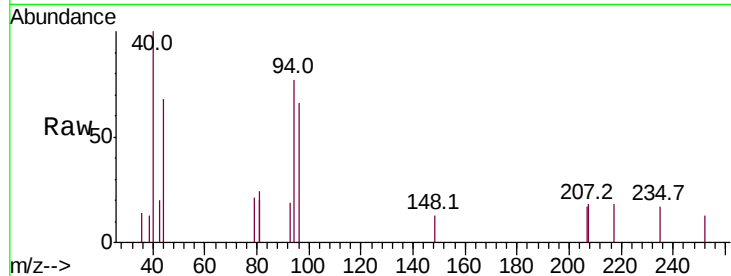
B-16(11-13)

Tot Ion: 94 Resp: 2348

Ion Ratio Lower Upper

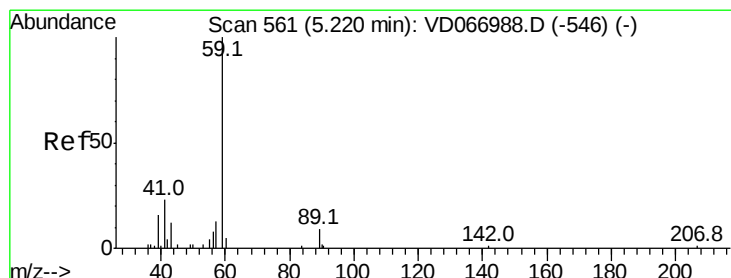
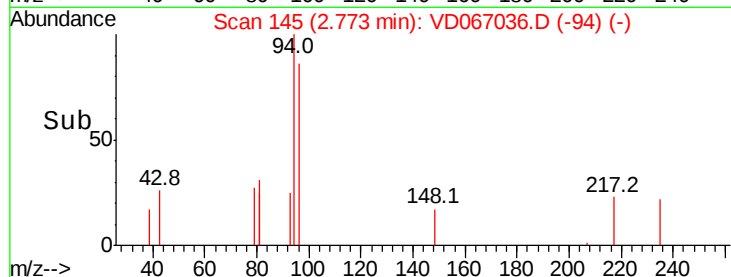
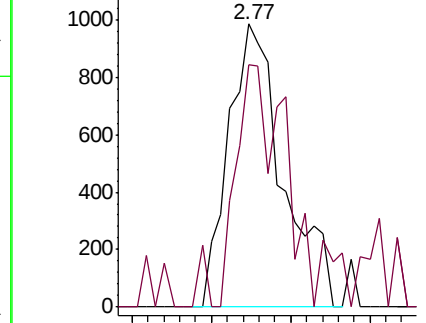
94 100

96 85.8 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.23 min Scan# 563

Delta R.T. 0.01 min

Lab File: VD067036.D

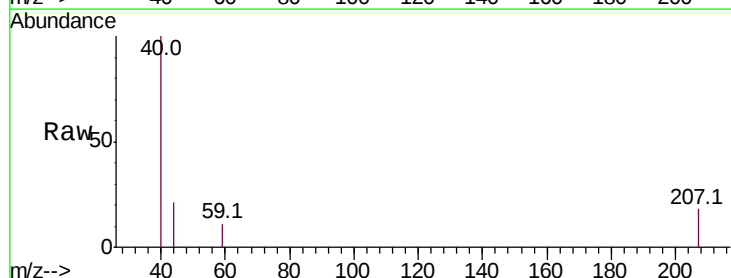
Acq: 02 Oct 2020 15:31

Tgt Ion: 59 Resp: 140

Ion Ratio Lower Upper

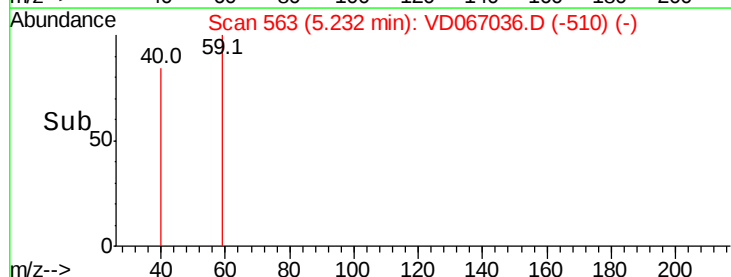
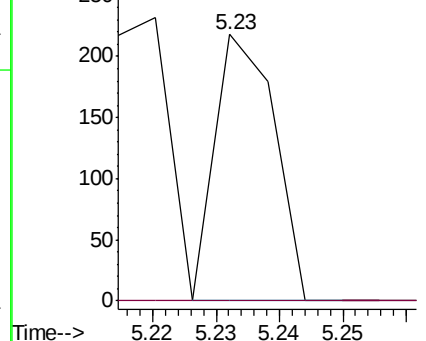
59 100

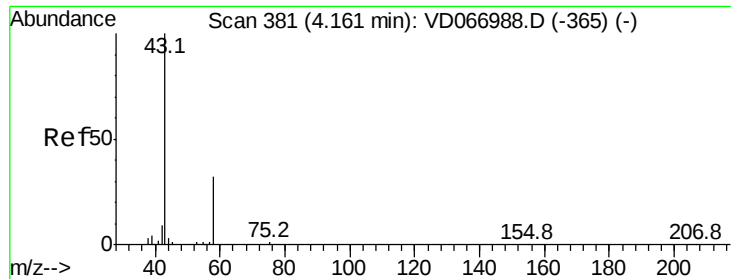
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 16.327 ug/l

RT: 4.16 min Scan# 380

Delta R.T. -0.01 min

Lab File: VD067036.D

Acq: 02 Oct 2020 15:31

Instrument :

MSVOA_D

ClientSampleId :

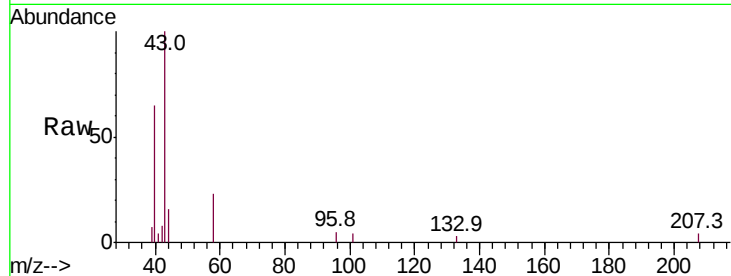
B-16(11-13)

Tot Ion: 43 Resp: 11849

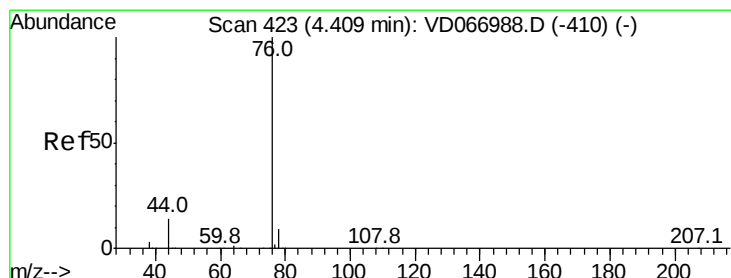
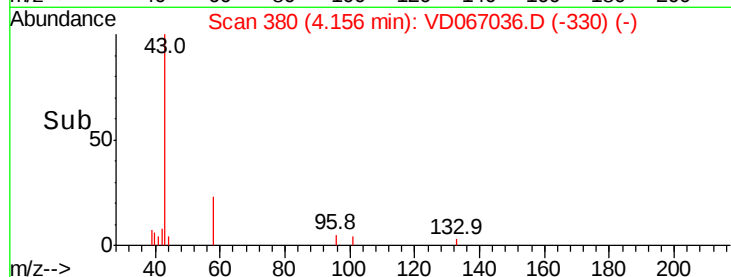
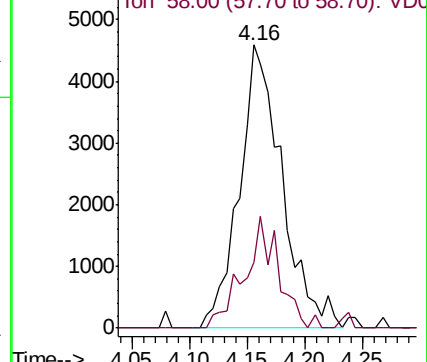
Ion Ratio Lower Upper

43 100

58 23.4 25.9 38.9#



Abundance Ion 43.00 (42.70 to 43.70): VDC



#17

Carbon Disulfide

Concen: 1.613 ug/l

RT: 4.40 min Scan# 422

Delta R.T. -0.01 min

Lab File: VD067036.D

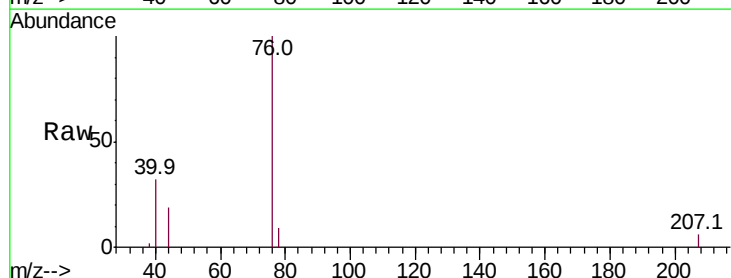
Acq: 02 Oct 2020 15:31

Tgt Ion: 76 Resp: 23039

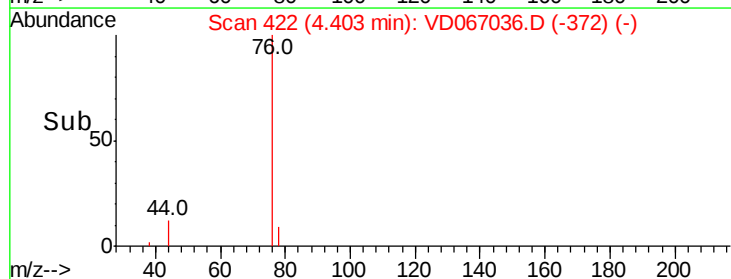
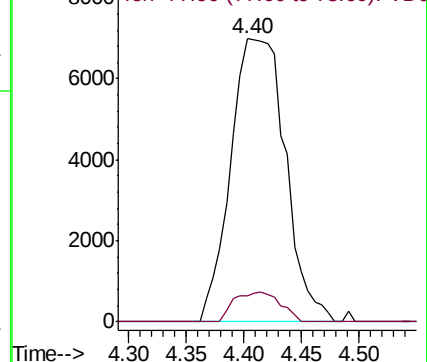
Ion Ratio Lower Upper

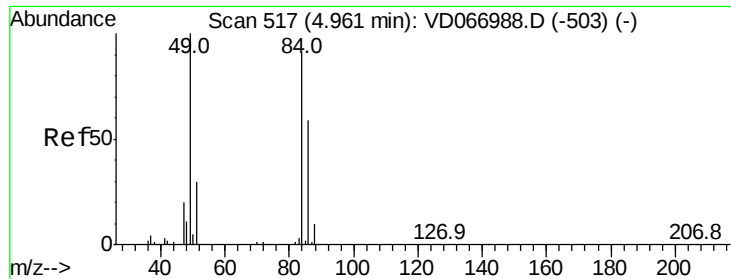
76 100

78 9.3 7.5 11.3



Abundance Ion 75.90 (75.60 to 76.60): VDC

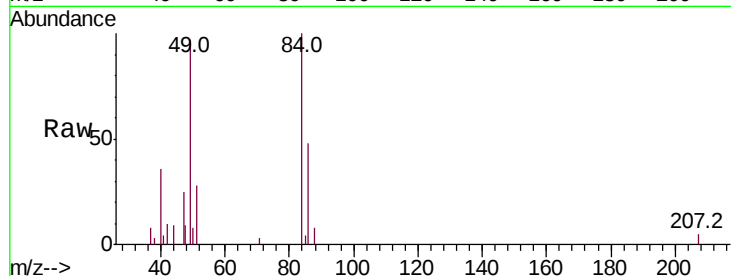




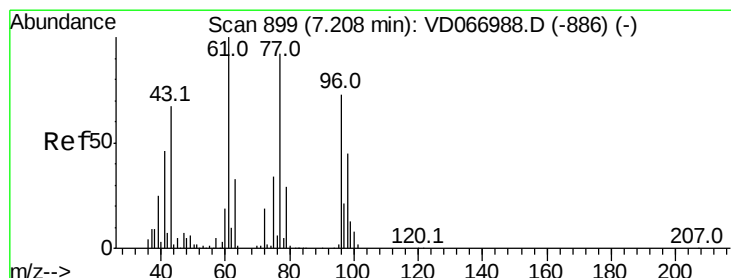
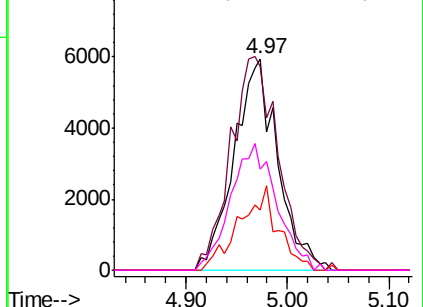
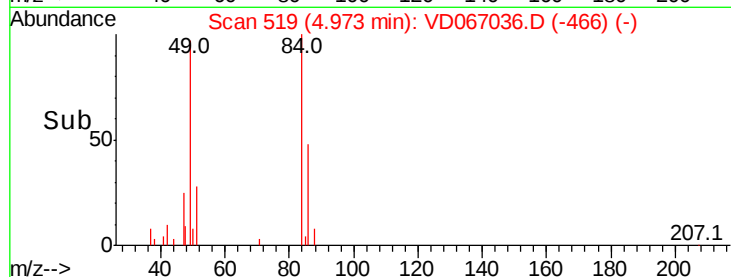
#20
Methvlene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 519
Delta R.T. 0.01 min
Lab File: VD067036.D
Acq: 02 Oct 2020 15:31

Instrument :
MSVOA_D
ClientSampleId :
B-16(11-13)

Tot Ion: 84 Resp: 17743
Ion Ratio Lower Upper
84 100
49 96.5 88.2 132.2
51 28.4 26.6 39.8
86 47.6 52.1 78.1#

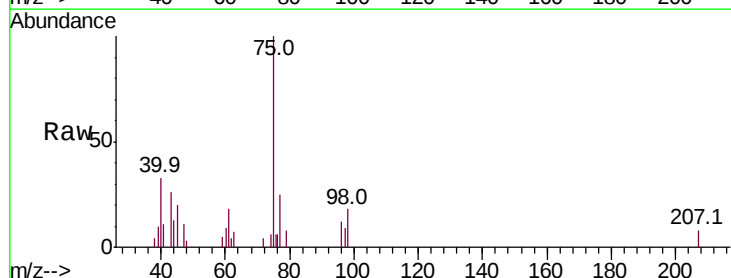


Abundance Ion 83.90 (83.60 to 84.60): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

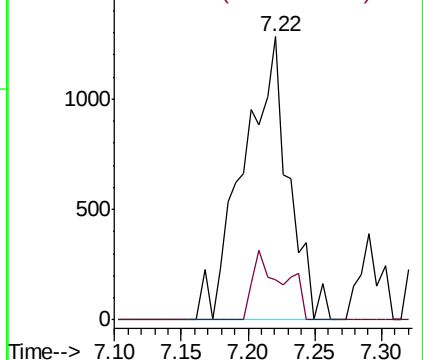
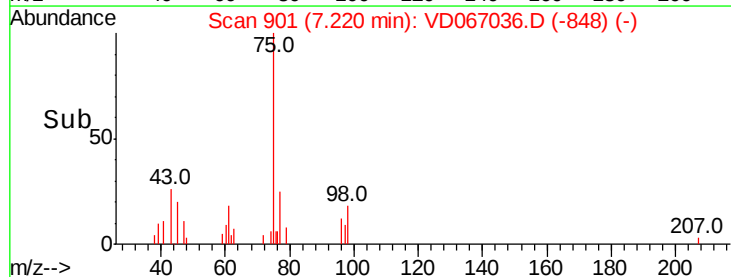


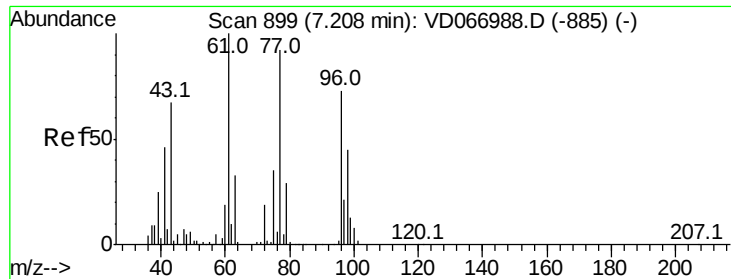
#25
2-Butanone
Concen: 2.926 ug/l
RT: 7.22 min Scan# 901
Delta R.T. 0.01 min
Lab File: VD067036.D
Acq: 02 Oct 2020 15:31

Tgt Ion: 43 Resp: 3011
Ion Ratio Lower Upper
43 100
72 14.2 22.8 34.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 72.00 (71.70 to 72.70): VDC





#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.20 min Scan# 897

Delta R.T. -0.01 min

Lab File: VD067036.D

Acq: 02 Oct 2020 15:31

Instrument :

MSVOA_D

ClientSampleId :

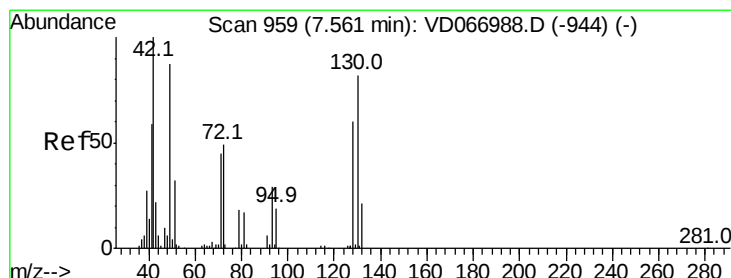
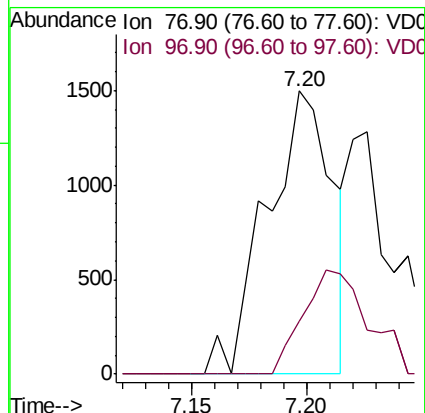
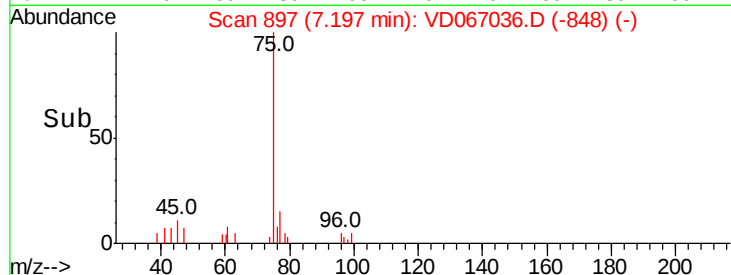
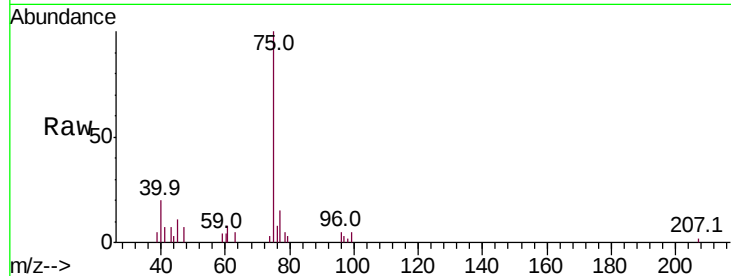
B-16(11-13)

Tot Ion: 77 Resp: 2957

Ion Ratio Lower Upper

77 100

97 36.3 11.4 34.2#



#29

Tetrahydrofuran

Concen: 1.151 ug/l

RT: 7.56 min Scan# 959

Delta R.T. 0.00 min

Lab File: VD067036.D

Acq: 02 Oct 2020 15:31

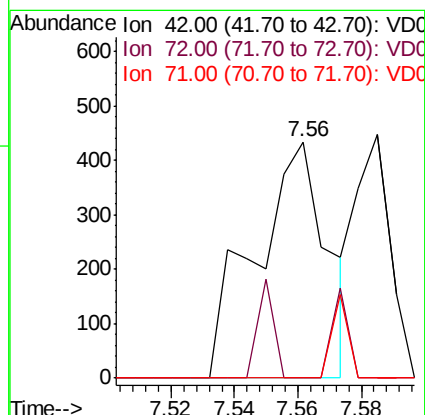
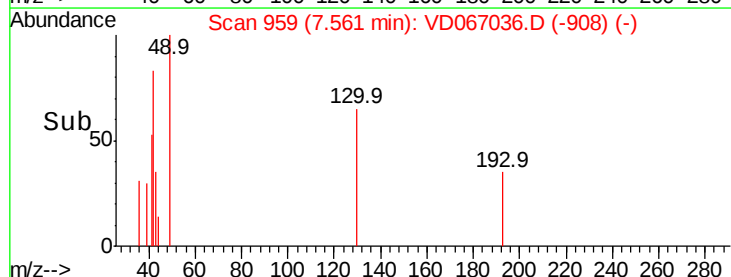
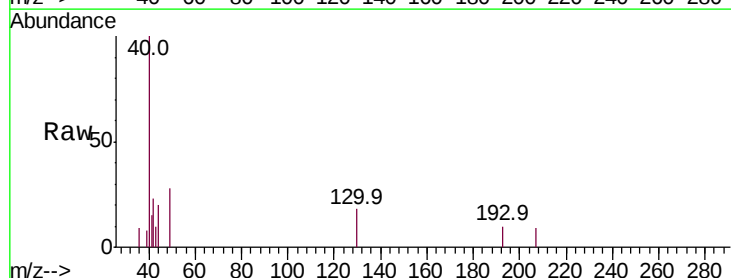
Tgt Ion: 42 Resp: 681

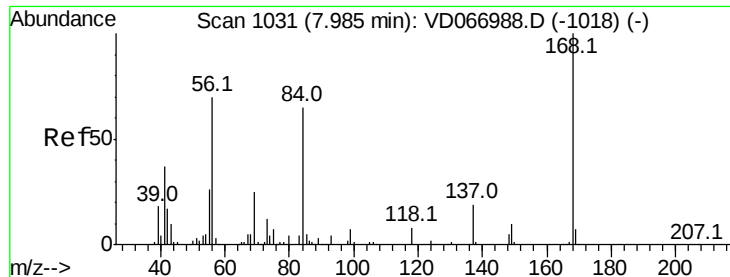
Ion Ratio Lower Upper

42 100

72 9.5 39.1 58.7#

71 0.0 34.2 51.4#





#31

Cyclohexane

Concen: 2.067 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD067036.D

Acq: 02 Oct 2020 15:31

Instrument :

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B-16(11-13)

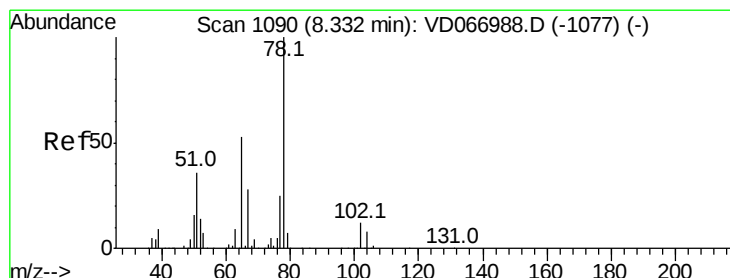
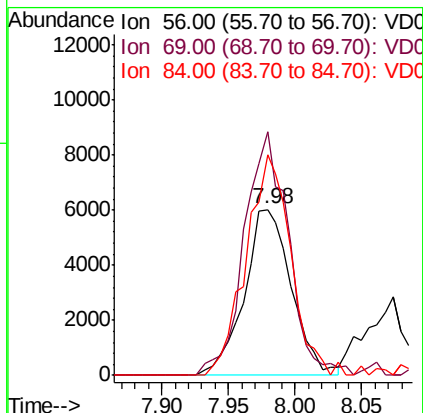
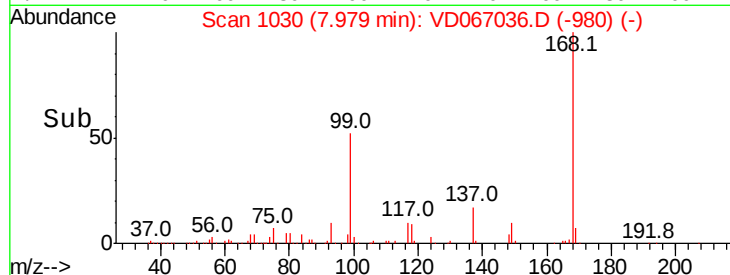
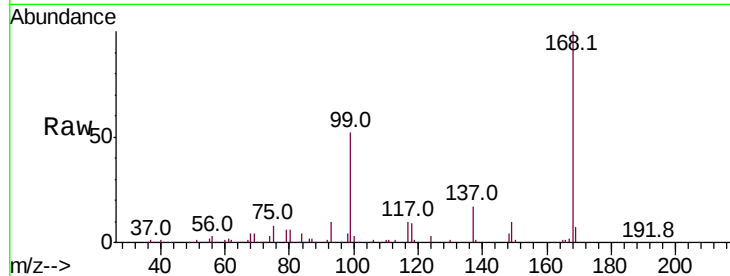
Tot Ion: 56 Resp: 14755

Ion Ratio Lower Upper

56 100

69 146.9 29.0 43.6#

84 132.8 74.2 111.2#



#33

1,2-Dichloroethane-d4

Concen: 49.774 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD067036.D

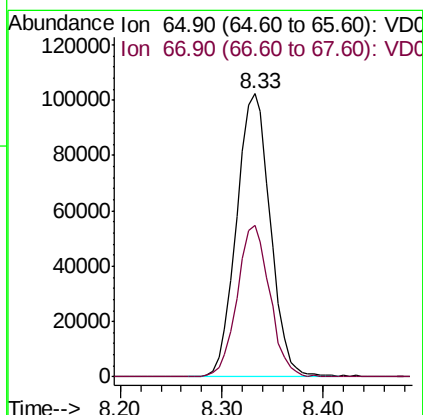
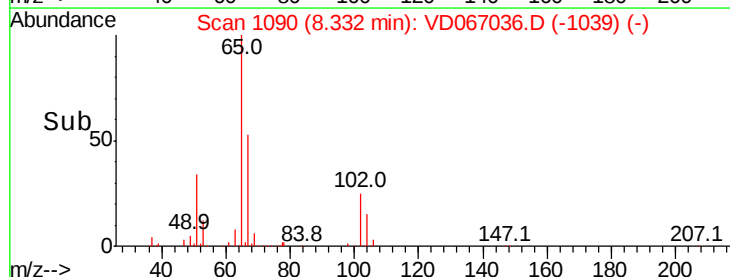
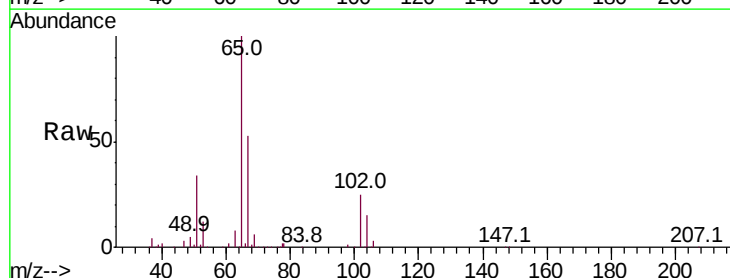
Acq: 02 Oct 2020 15:31

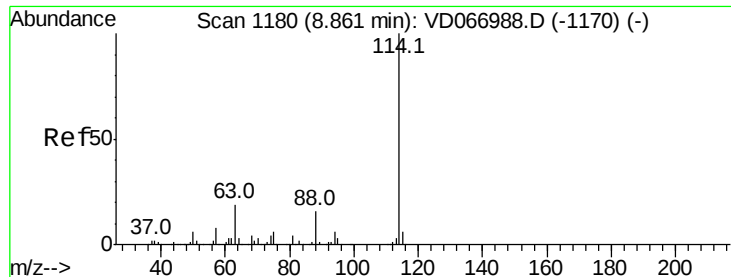
Tgt Ion: 65 Resp: 236639

Ion Ratio Lower Upper

65 100

67 51.6 0.0 106.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VD067036.D

Acq: 02 Oct 2020 15:31

Instrument :

MSVOA_D

ClientSampleId :

B-16(11-13)

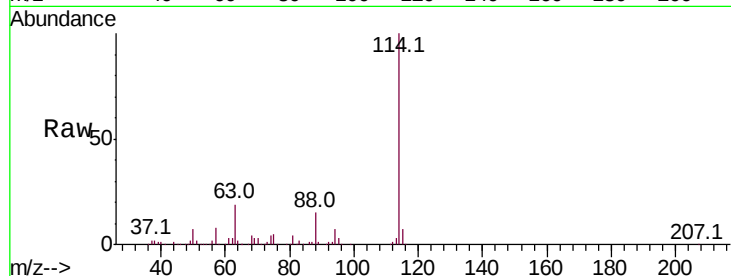
Tot Ion:114 Resp: 803768

Ion Ratio Lower Upper

114 100

63 19.2 0.0 38.4

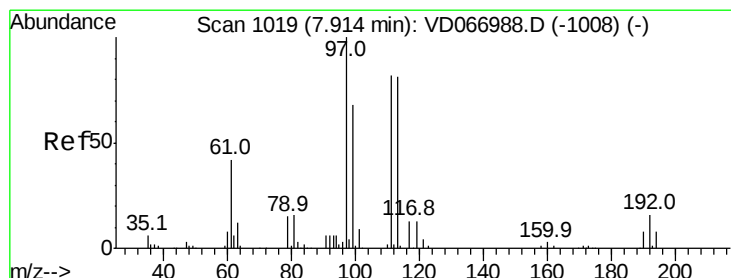
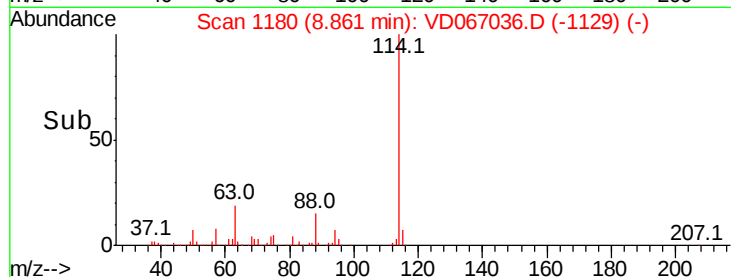
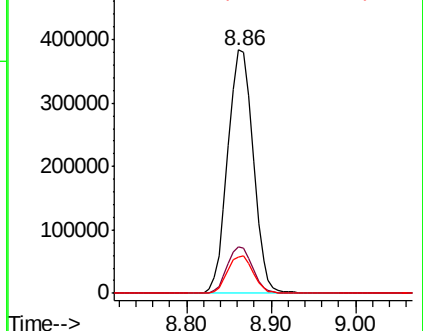
88 15.1 0.0 31.2



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: 49.009 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VD067036.D

Acq: 02 Oct 2020 15:31

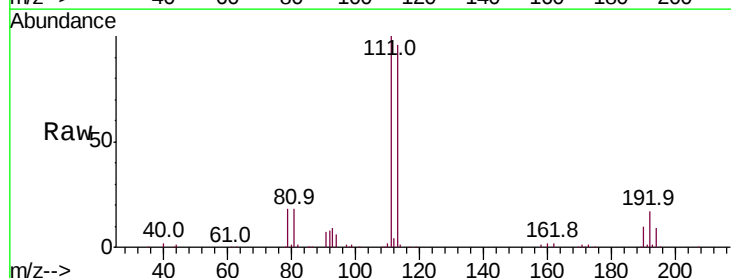
Tgt Ion:113 Resp: 257891

Ion Ratio Lower Upper

113 100

111 103.4 83.0 124.4

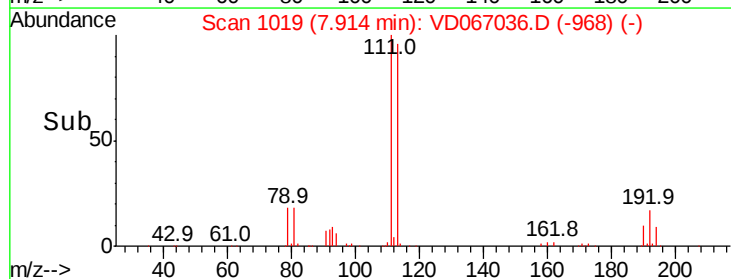
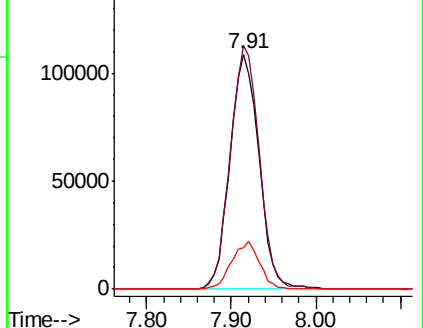
192 19.5 15.5 23.3

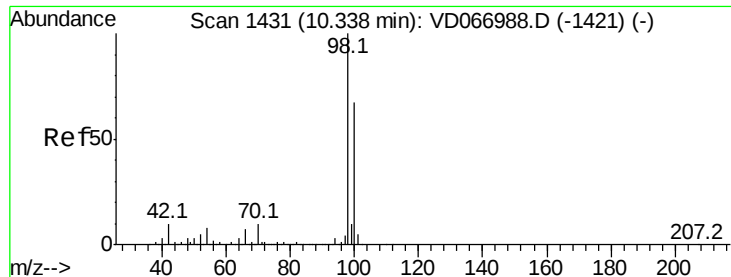


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

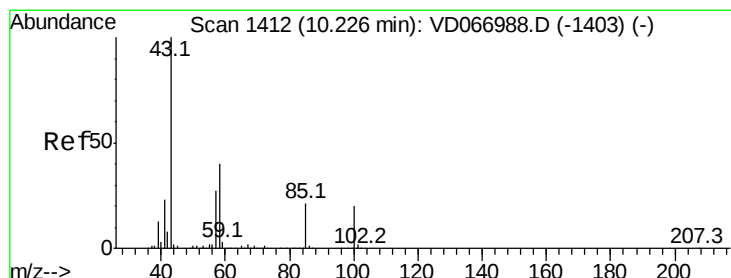
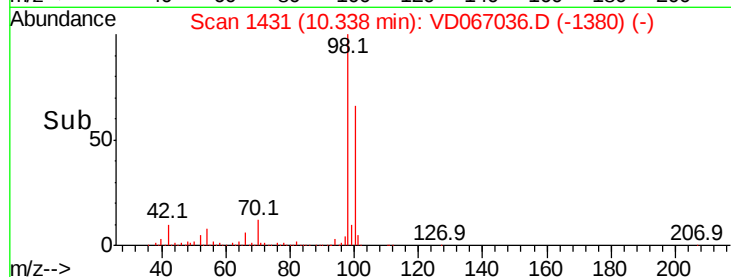
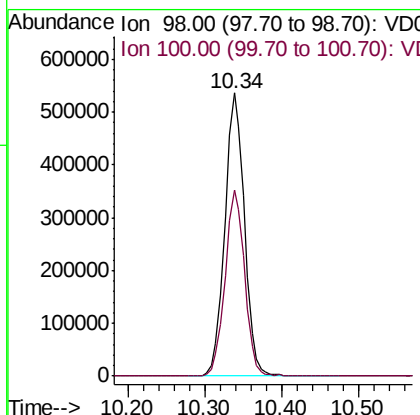
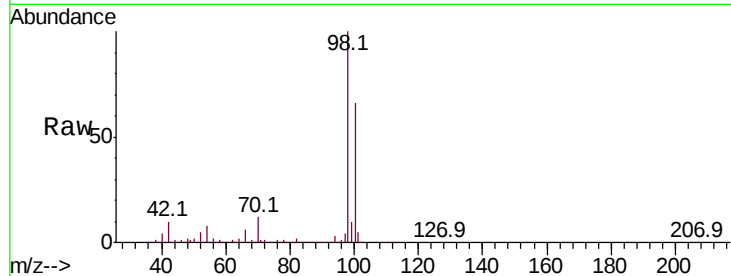




#50
Toluene-d8
Concen: 49.690 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. 0.00 min
Lab File: VD067036.D
Acq: 02 Oct 2020 15:31

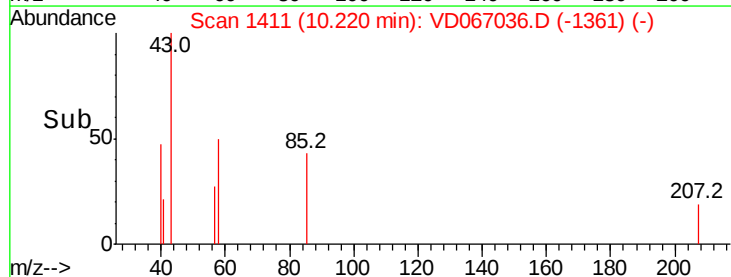
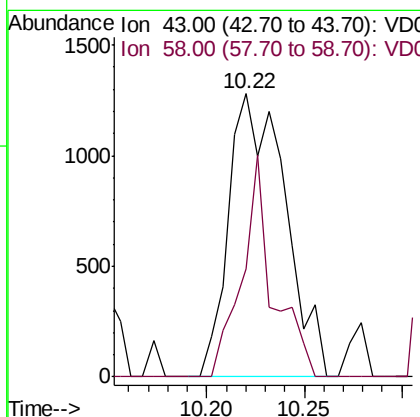
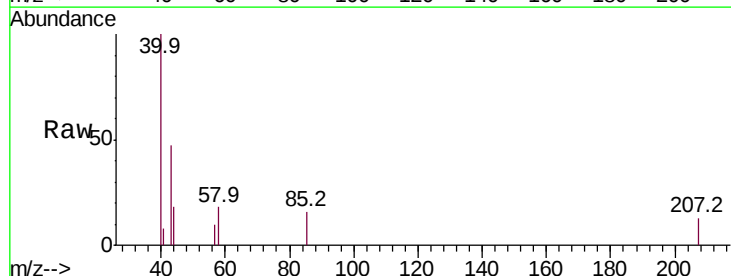
Instrument :
MSVOA_D
ClientSampleId :
B-16(11-13)

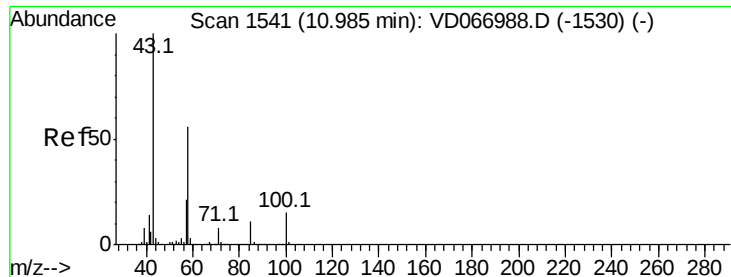
Tot Ion: 98 Resp: 952775
Ion Ratio Lower Upper
98 100
100 65.6 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 1.080 ug/l
RT: 10.22 min Scan# 1411
Delta R.T. -0.01 min
Lab File: VD067036.D
Acq: 02 Oct 2020 15:31

Tgt Ion: 43 Resp: 2571
Ion Ratio Lower Upper
43 100
58 42.6 33.8 50.8

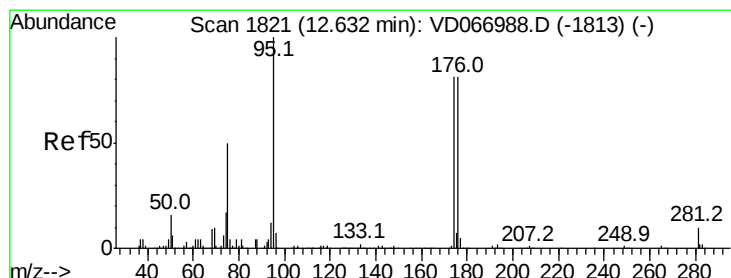
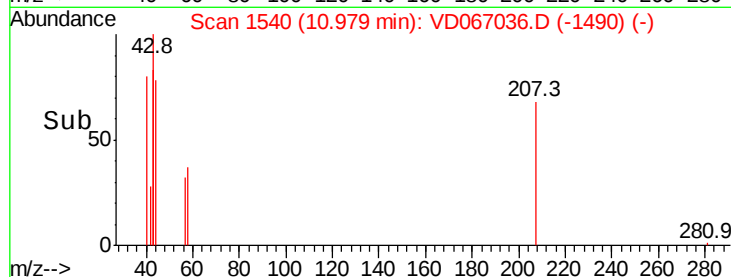
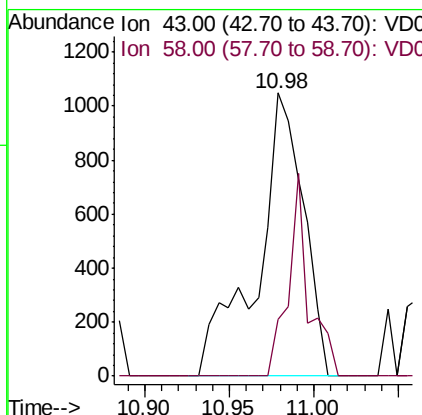
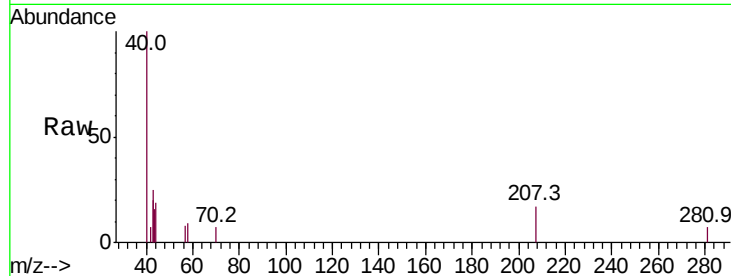




#59
2-Hexanone
Concen: 1.261 ug/l
RT: 10.98 min Scan# 1540
Delta R.T. -0.01 min
Lab File: VD067036.D
Acq: 02 Oct 2020 15:31

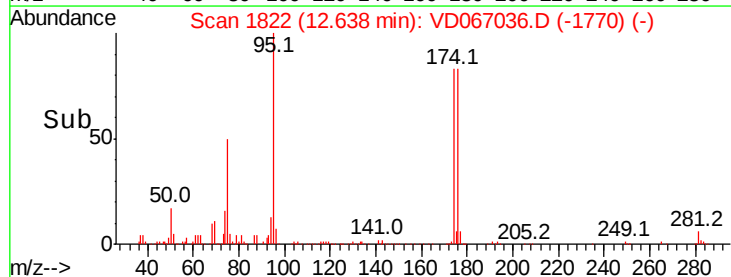
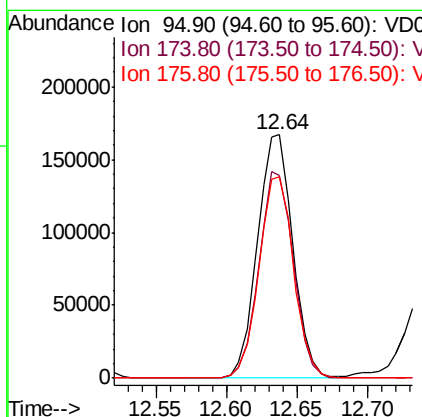
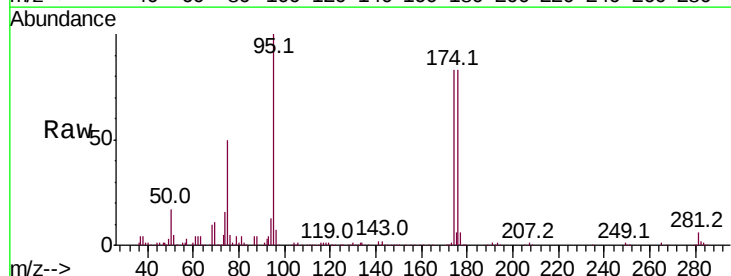
Instrument :
MSVOA_D
ClientSampleId :
B-16(11-13)

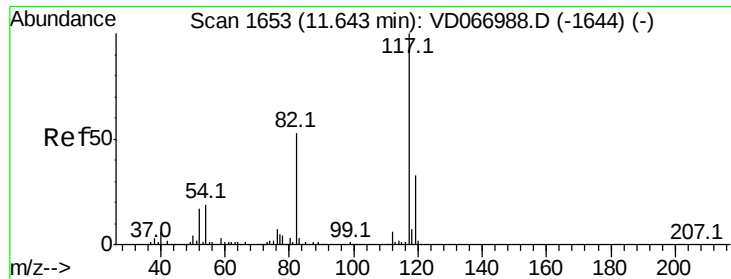
Tot Ion: 43 Resp: 2004
Ion Ratio Lower Upper
43 100
58 31.4 28.3 84.9



#62
4-Bromofluorobenzene
Concen: 45.169 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.01 min
Lab File: VD067036.D
Acq: 02 Oct 2020 15:31

Tgt Ion: 95 Resp: 294020
Ion Ratio Lower Upper
95 100
174 82.8 0.0 167.6
176 81.2 0.0 162.4

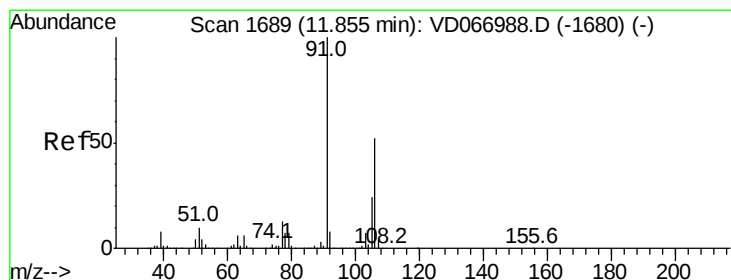
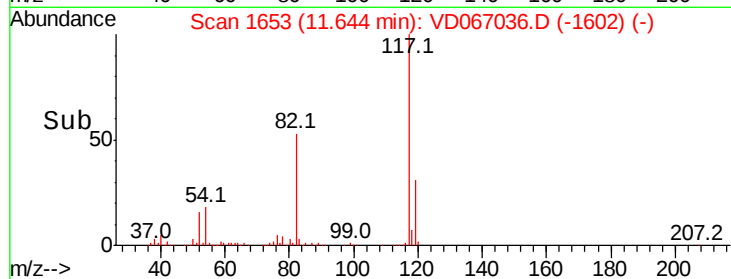
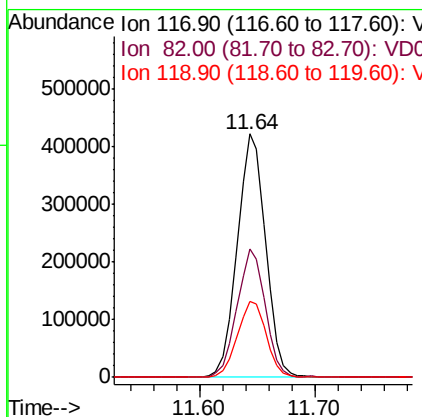
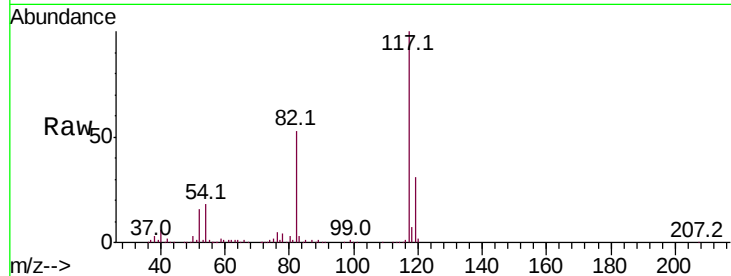




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD067036.D
Acq: 02 Oct 2020 15:31

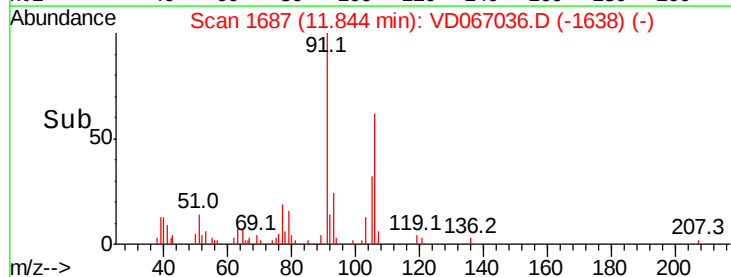
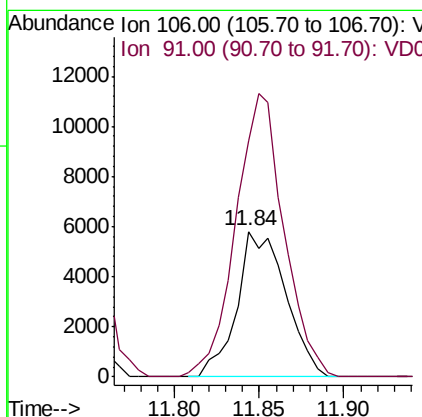
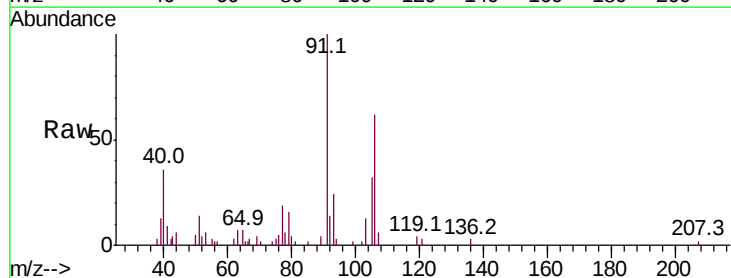
Instrument :
MSVOA_D
ClientSampled :
B-16(11-13)

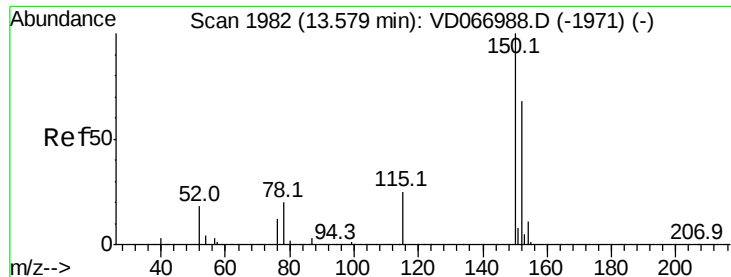
Tot Ion:117 Resp: 715270
Ion Ratio Lower Upper
117 100
82 52.9 42.6 63.8
119 31.4 26.3 39.5



#68
m/p-Xylenes
Concen: 1.228 ug/l
RT: 11.84 min Scan# 1687
Delta R.T. -0.01 min
Lab File: VD067036.D
Acq: 02 Oct 2020 15:31

Tgt Ion:106 Resp: 11666
Ion Ratio Lower Upper
106 100
91 192.5 158.4 237.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD067036.D

Acq: 02 Oct 2020 15:31

Instrument :

MSVOA_D

ClientSampleId :

B-16(11-13)

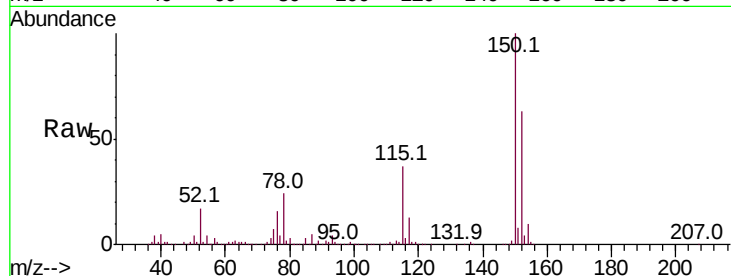
Tot Ion:152 Resp: 304886

Ion Ratio Lower Upper

152 100

115 59.9 29.6 88.8

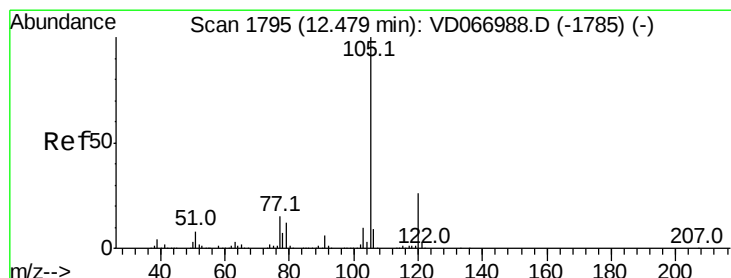
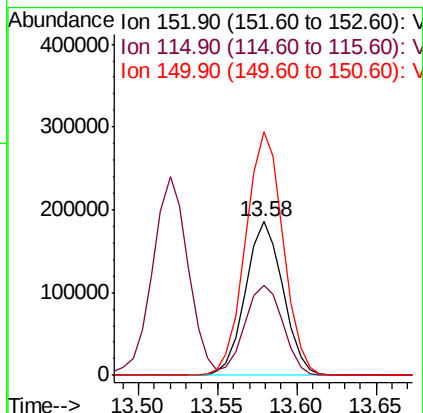
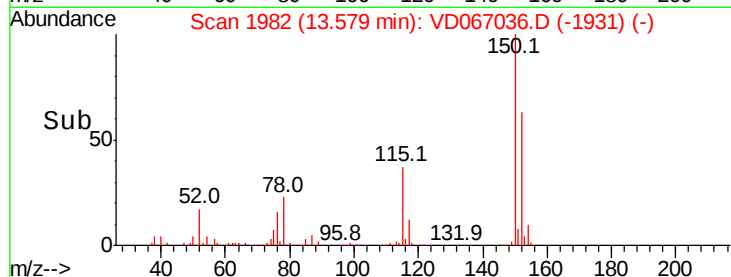
150 159.2 0.0 344.8



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



#73

Isopropylbenzene

Concen: 85.512 ug/l

RT: 12.49 min Scan# 1797

Delta R.T. 0.01 min

Lab File: VD067036.D

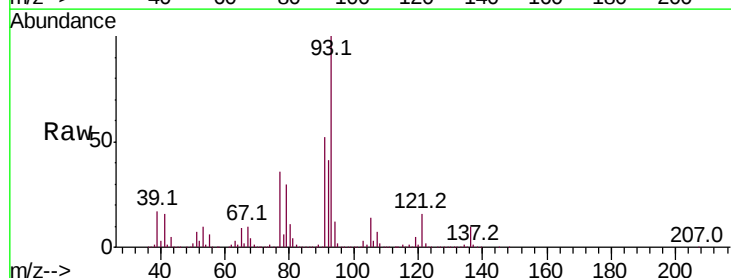
Acq: 02 Oct 2020 15:31

Tgt Ion:105 Resp: 1770295

Ion Ratio Lower Upper

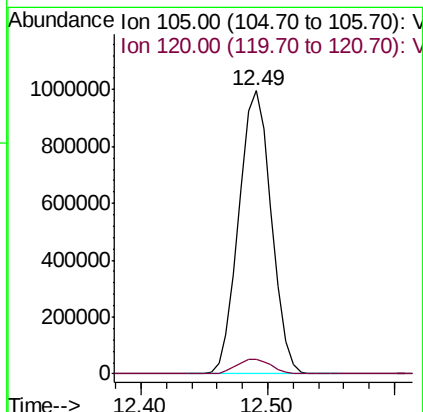
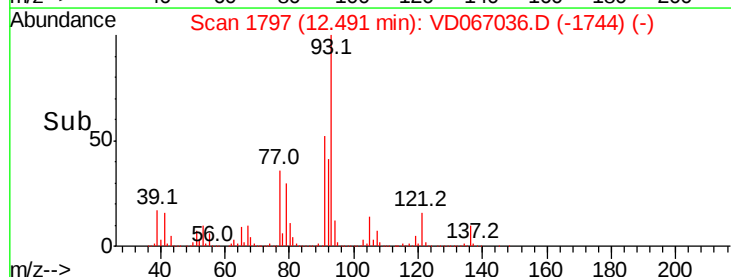
105 100

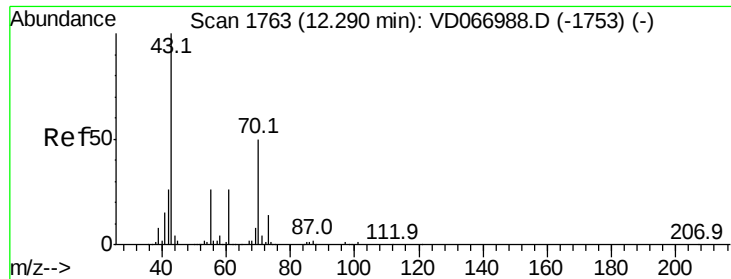
120 5.7 13.3 39.9#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

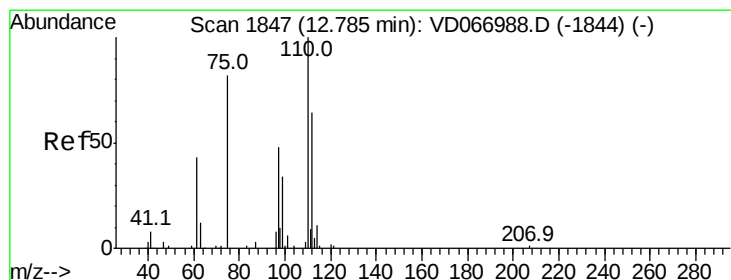
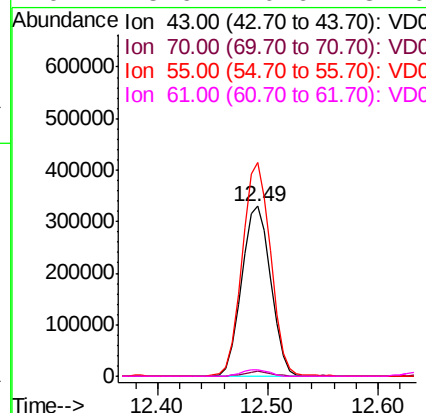
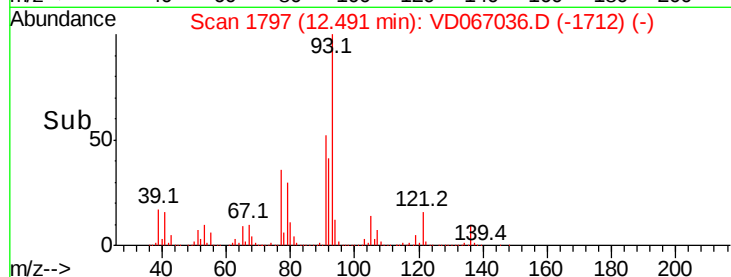
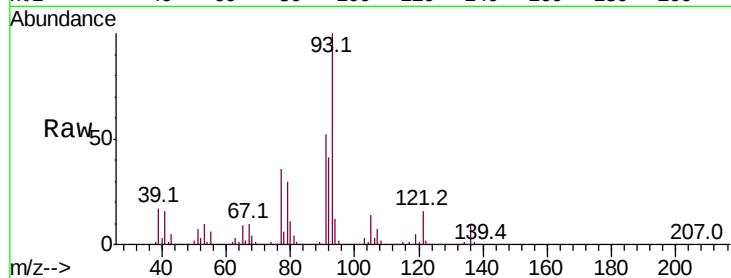




#74
N-amvl acetate
Concen: 164.301 ug/l
RT: 12.49 min Scan# 1797
Delta R.T. 0.20 min
Lab File: VD067036.D
Acq: 02 Oct 2020 15:31

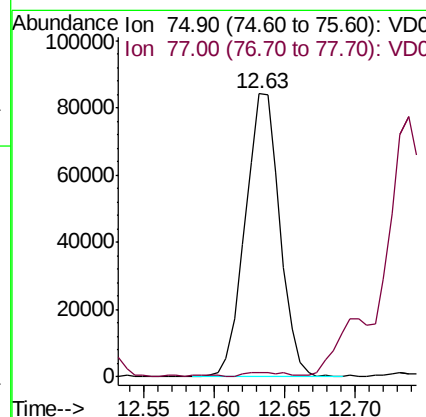
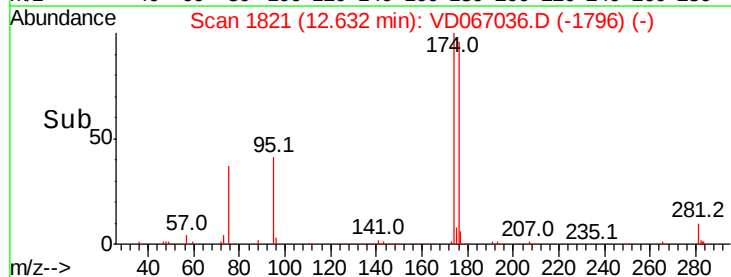
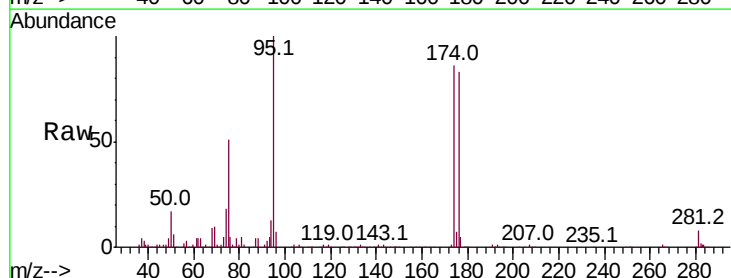
Instrument :
MSVOA_D
ClientSampleId :
B-16(11-13)

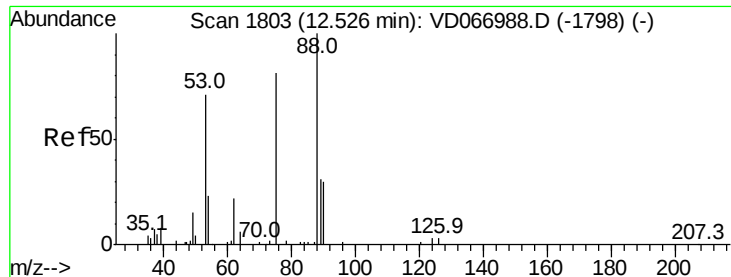
Tot Ion: 43 Resp: 611458
Ion Ratio Lower Upper
43 100
70 2.8 38.2 57.2#
55 122.5 22.4 33.6#
61 3.6 20.6 31.0#



#76
1,2,3-Trichloropropane
Concen: 54.490 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. -0.15 min
Lab File: VD067036.D
Acq: 02 Oct 2020 15:31

Tgt Ion: 75 Resp: 144707
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0





#81

trans-1,4-Dichloro-2-butene

Concen: 54.817 ug/l

RT: 12.49 min Scan# 1797

Delta R.T. -0.04 min

Lab File: VD067036.D

Acq: 02 Oct 2020 15:31

Instrument :

MSVOA_D

ClientSampleId :

B-16(11-13)

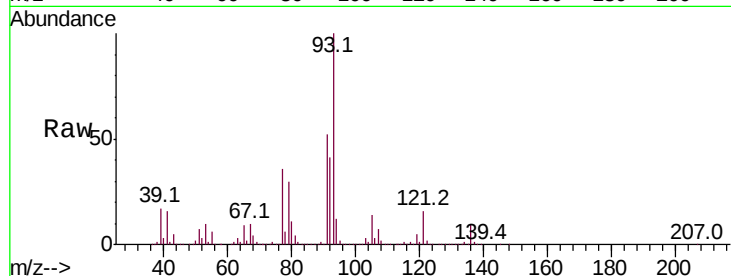
Tot Ion: 75 Resp: 58391

Ion Ratio Lower Upper

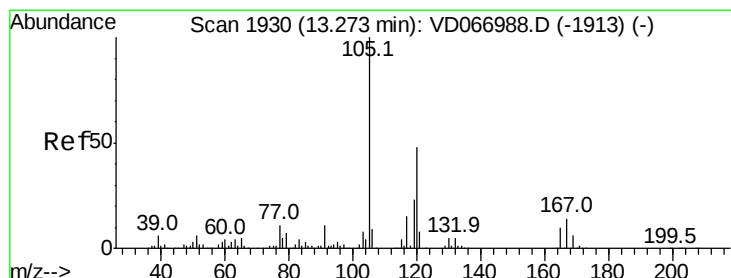
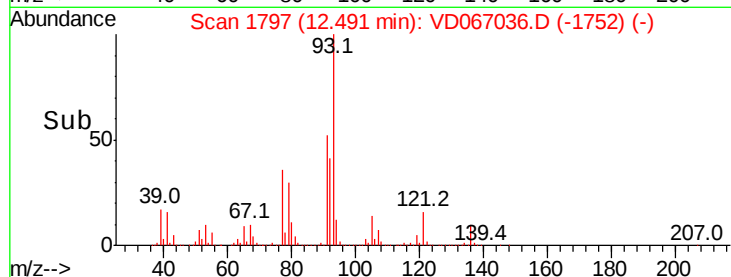
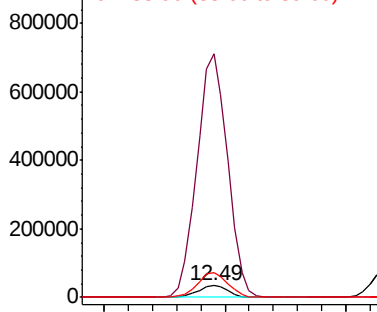
75 100

53 2140.8 73.8 110.6#

89 214.5 38.9 58.3#



Abundance Ion 74.90 (74.60 to 75.60): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 88.90 (88.60 to 89.60): VDC



#84

1,2,4-Trimethylbenzene

Concen: 1.512 ug/l

RT: 13.29 min Scan# 1933

Delta R.T. 0.02 min

Lab File: VD067036.D

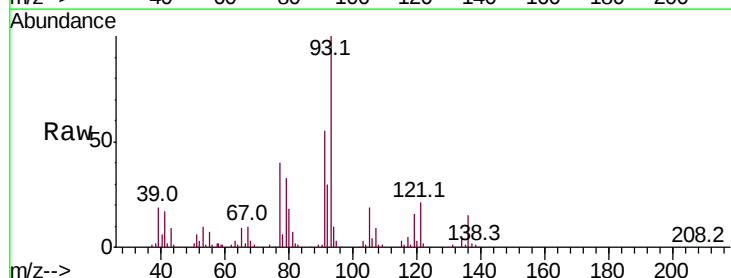
Acq: 02 Oct 2020 15:31

Tgt Ion:105 Resp: 26388

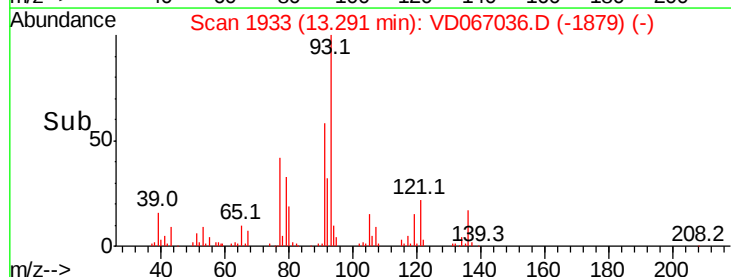
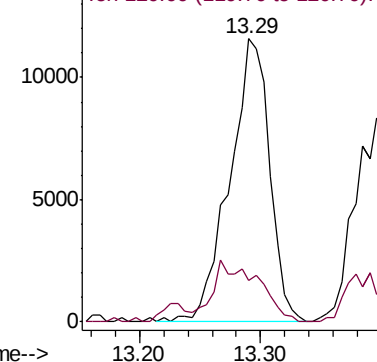
Ion Ratio Lower Upper

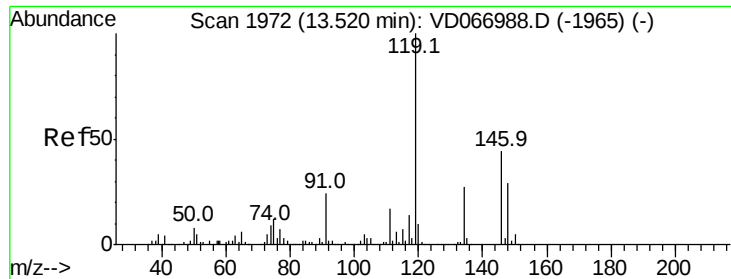
105 100

120 0.0 23.3 69.8#



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

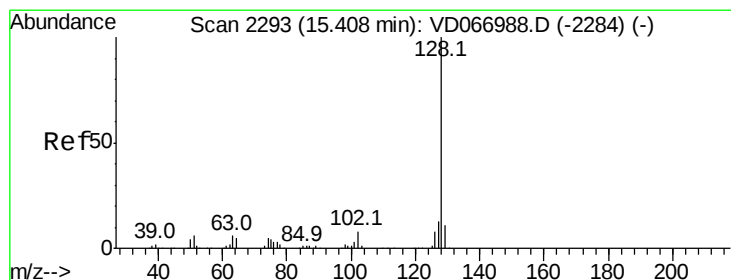
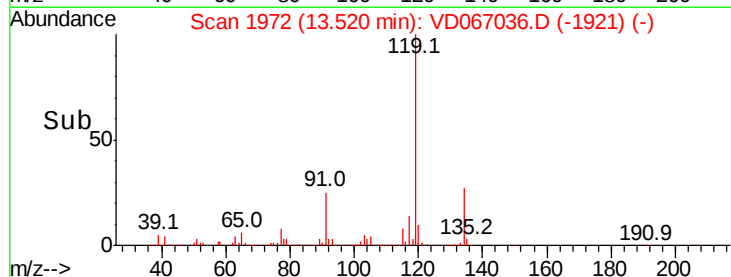
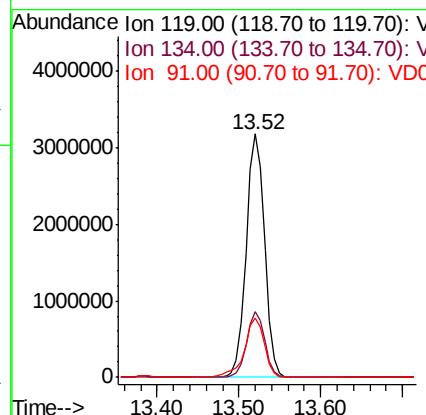
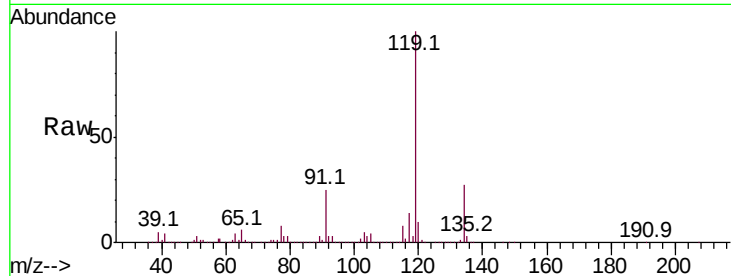




#86
 p-Isopropyltoluene
 Concen: 257.620 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. 0.00 min
 Lab File: VD067036.D
 Acq: 02 Oct 2020 15:31

Instrument :
 MSVOA_D
 ClientSampleId :
 B-16(11-13)

Tot Ion:119 Resp: 4954105
 Ion Ratio Lower Upper
 119 100
 134 26.6 13.1 39.1
 91 26.2 11.7 35.1



#95
 Naphthalene
 Concen: 3.313 ug/l
 RT: 15.41 min Scan# 2293
 Delta R.T. 0.00 min
 Lab File: VD067036.D
 Acq: 02 Oct 2020 15:31

Tgt Ion:128 Resp: 30395
 Ion Ratio Lower Upper
 128 100
 127 13.3 10.3 15.5
 129 10.0 8.6 13.0

