

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111620\
 Data File : VD067643.D
 Acq On : 16 Nov 2020 16:18
 Operator : VA/SY
 Sample : L4687-07
 Misc : 5.60G/5.01ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SS-6

Quant Time: Nov 17 01:08:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110320S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 04 00:56:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	265599	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	424565	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	445193	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	225567	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	119931	51.64	ug/l	0.00
Spiked Amount			Recovery	=	103.28%	
35) Dibromofluoromethane	7.92	113	131838	51.54	ug/l	0.00
Spiked Amount			Recovery	=	103.08%	
50) Toluene-d8	10.34	98	506693	56.37	ug/l	0.00
Spiked Amount			Recovery	=	112.74%	
62) 4-Bromofluorobenzene	12.64	95	195802	63.09	ug/l	0.00
Spiked Amount			Recovery	=	126.18%	

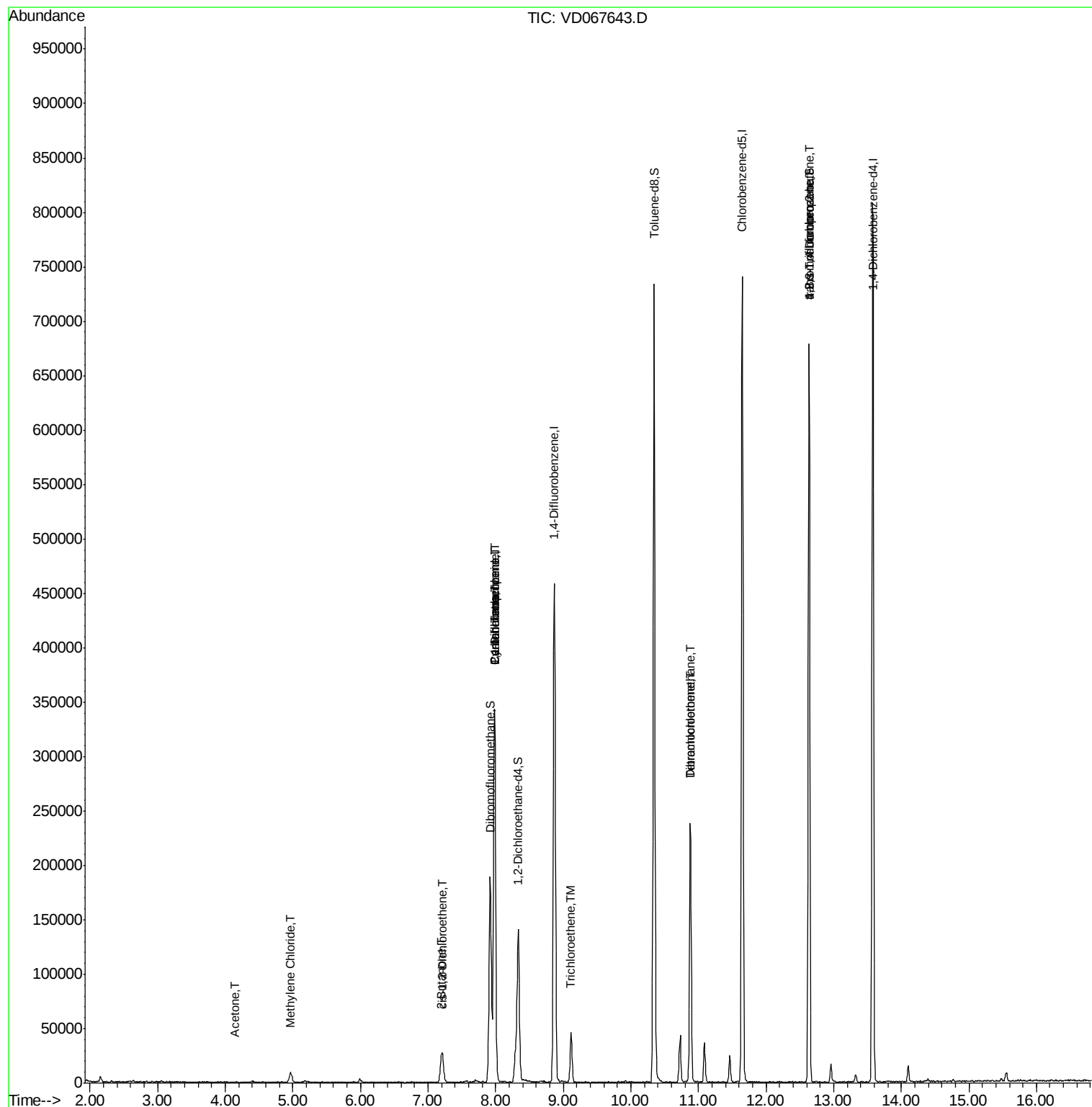
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	55	Below Cal	#	44
11) Tert butyl alcohol	5.18	59	803	Below Cal	#	79
16) Acetone	4.16	43	389	1.119	ug/l #	43
20) Methylene Chloride	4.97	84	6757	2.752	ug/l #	89
25) 2-Butanone	7.20	43	688	1.853	ug/l	93
27) cis-1,2-Dichloroethene	7.22	96	10840	4.045	ug/l	91
31) Cyclohexane	7.98	56	5051	1.500	ug/l #	43
36) 1,1-Dichloropropene	7.98	75	17043	4.690	ug/l #	50
38) Carbon Tetrachloride	7.98	117	26228	5.555	ug/l #	16
44) Trichloroethene	9.11	130	17466	5.396	ug/l	96
60) Dibromochloromethane	10.88	129	51202	19.331	ug/l #	11
64) Tetrachloroethene	10.88	164	57179	17.342	ug/l	98
76) 1,2,3-Trichloropropane	12.64	75	102798	75.545	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	102798	153.377	ug/l #	10

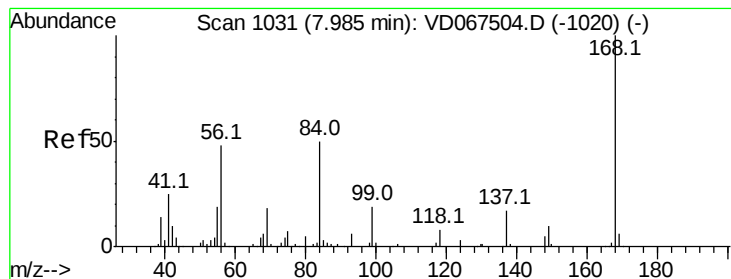
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Nov 04 00:56:28 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD067643.D

Acq: 16 Nov 2020 16:18

Instrument :

MSVOA_D

ClientSampleId :

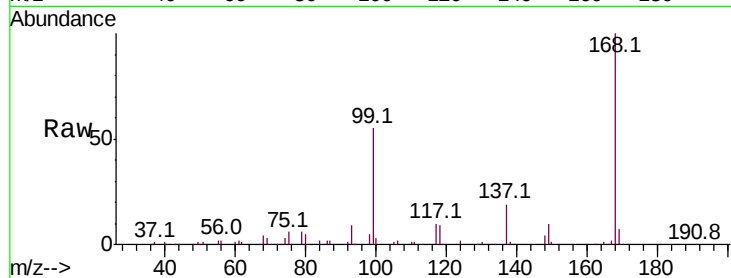
SS-6

Tot Ion:168 Resp: 265599

Ion Ratio Lower Upper

168 100

99 54.5 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

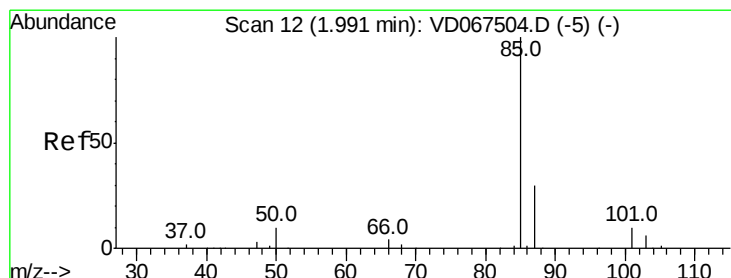
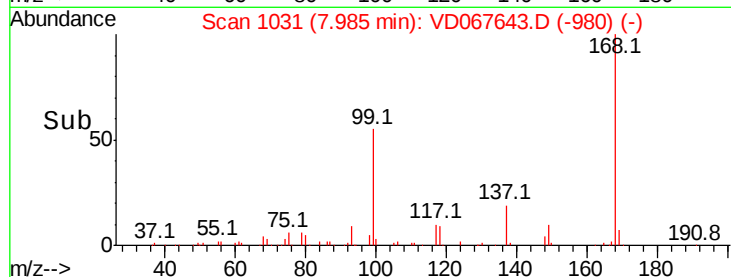
100000

50000

0

Time-->

7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. -0.01 min

Lab File: VD067643.D

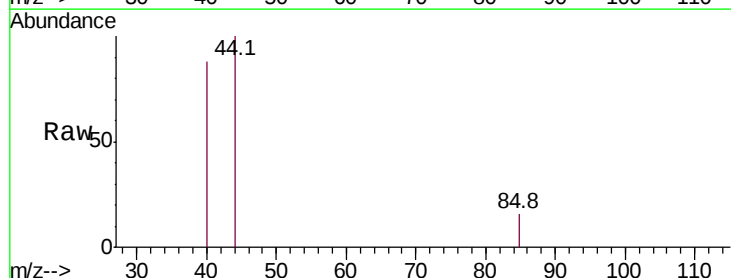
Acq: 16 Nov 2020 16:18

Tgt Ion: 85 Resp: 55

Ion Ratio Lower Upper

85 100

87 0.0 15.3 45.8#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

200

150

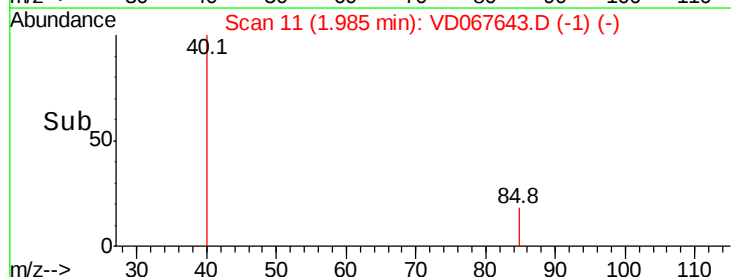
100

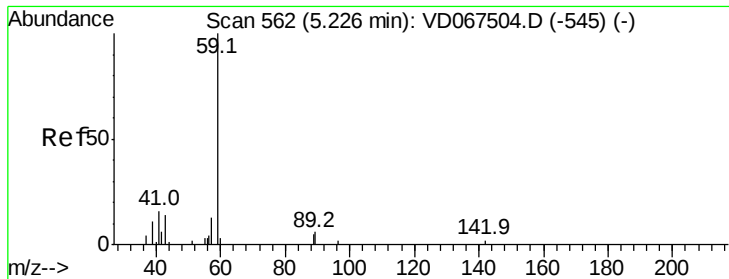
50

0

Time-->

1.97 1.98 1.99 2.00



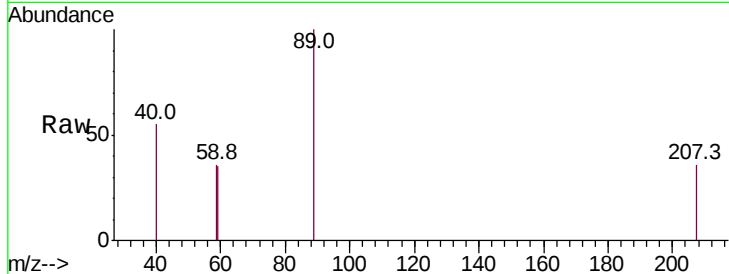


#11

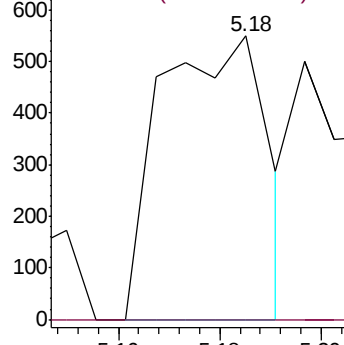
Tert butyl alcohol
 Concen: Below Cal
 RT: 5.18 min Scan# 555
 Delta R.T. -0.04 min
 Lab File: VD067643.D
 Acq: 16 Nov 2020 16:18

Instrument :
 MSVOA_D
 ClientSampleId :
 SS-6

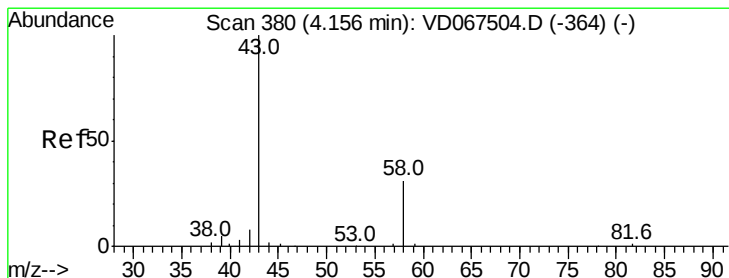
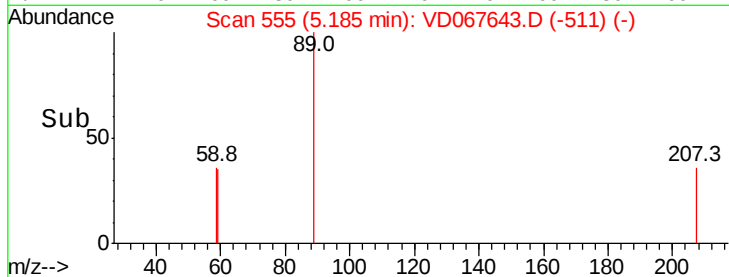
Tot Ion: 59 Resp: 803
 Ion Ratio Lower Upper
 59 100
 57 0.0 5.9 8.9#



Abundance Ion 59.00 (58.70 to 59.70): VDC
 Ion 57.00 (56.70 to 57.70): VDC



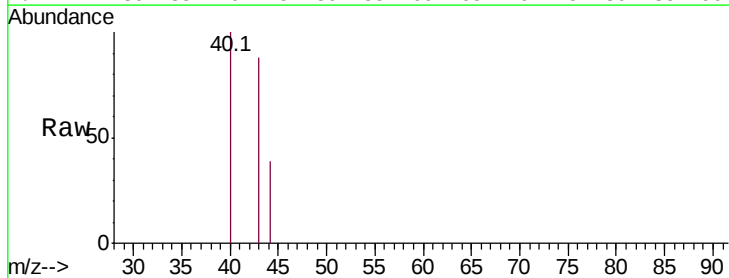
Time-->



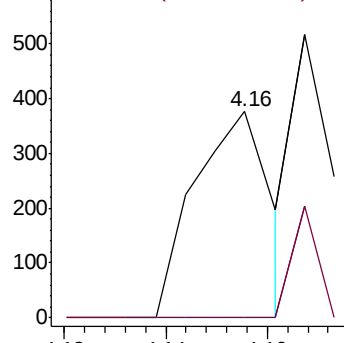
#16

Acetone
 Concen: 1.119 ug/l
 RT: 4.16 min Scan# 380
 Delta R.T. -0.00 min
 Lab File: VD067643.D
 Acq: 16 Nov 2020 16:18

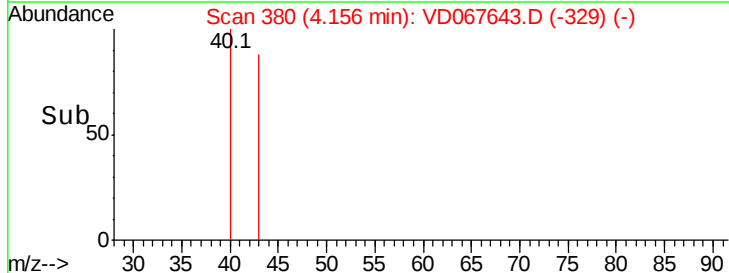
Tgt Ion: 43 Resp: 389
 Ion Ratio Lower Upper
 43 100
 58 0.0 25.2 37.8#

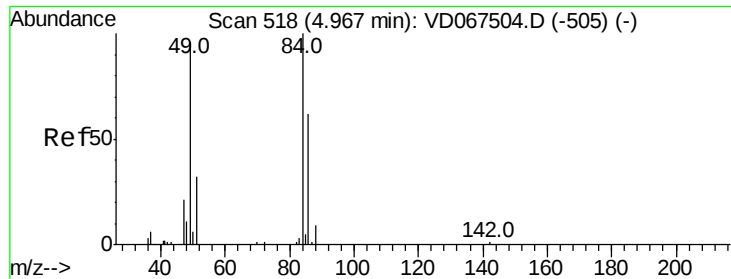


Abundance Ion 43.00 (42.70 to 43.70): VDC
 Ion 58.00 (57.70 to 58.70): VDC



Time-->

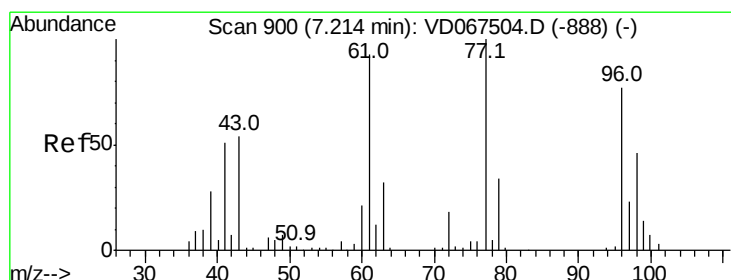
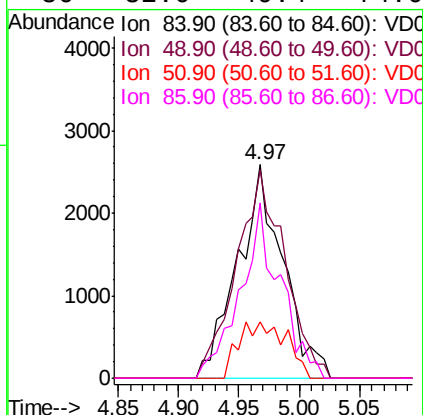
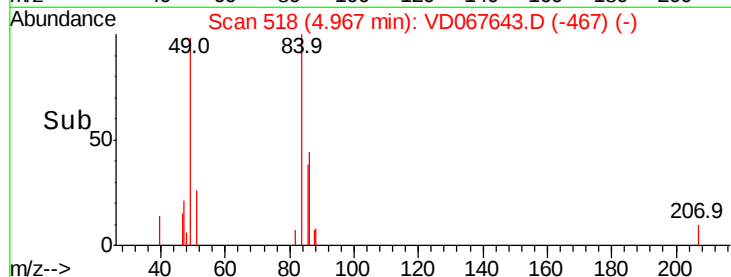
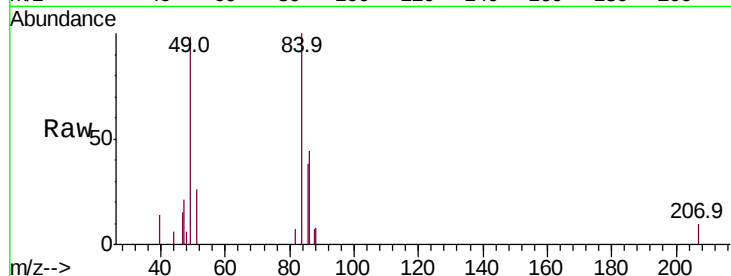




#20
Methvlene Chloride
Concen: 2.752 ug/l
RT: 4.97 min Scan# 518
Delta R.T. -0.00 min
Lab File: VD067643.D
Acq: 16 Nov 2020 16:18

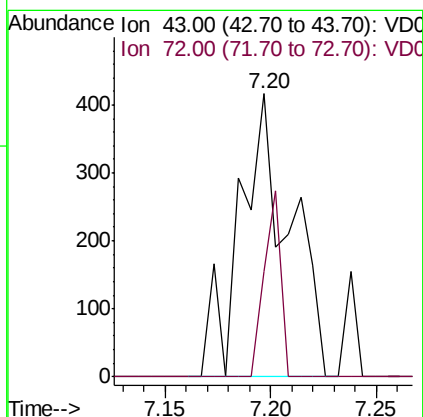
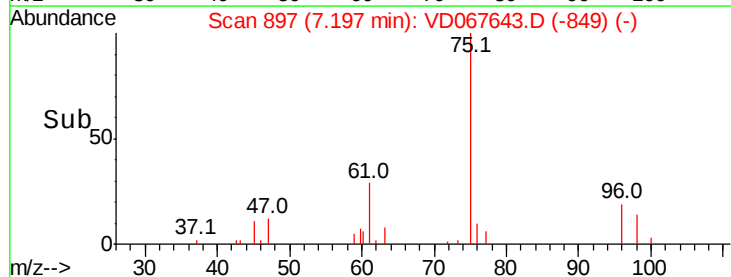
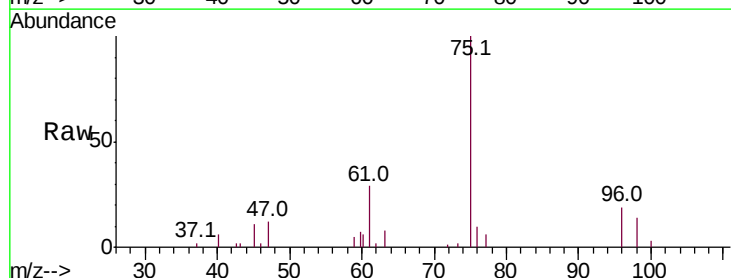
Instrument :
MSVOA_D
ClientSampleId :
SS-6

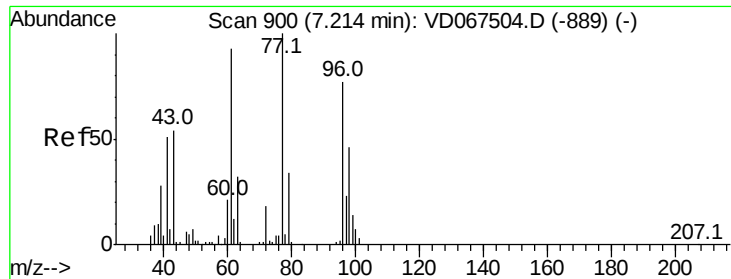
Tot Ion: 84 Resp: 6757
Ion Ratio Lower Upper
84 100
49 98.0 77.0 115.4
51 26.4 25.4 38.2
86 82.0 49.4 74.0#



#25
2-Butanone
Concen: 1.853 ug/l
RT: 7.20 min Scan# 897
Delta R.T. -0.02 min
Lab File: VD067643.D
Acq: 16 Nov 2020 16:18

Tgt Ion: 43 Resp: 688
Ion Ratio Lower Upper
43 100
72 36.9 26.4 39.6

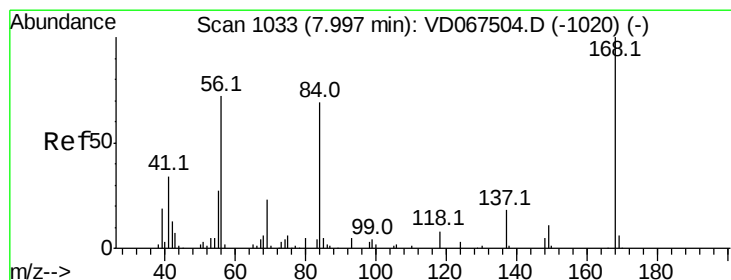
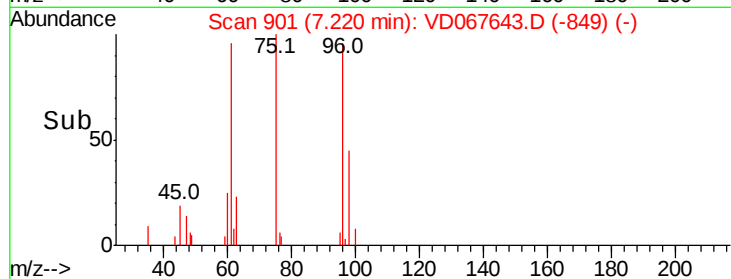
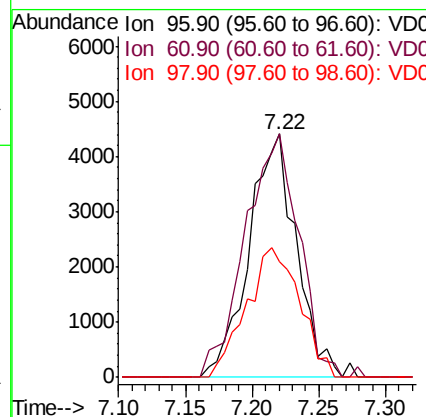
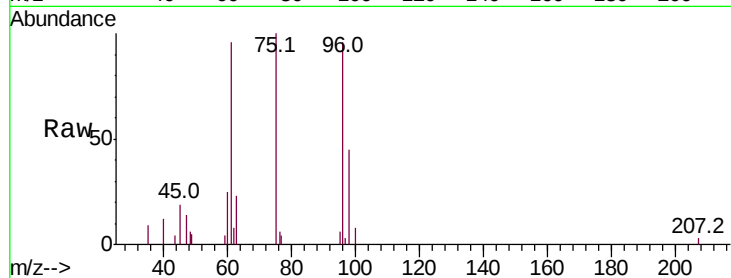




#27
 cis-1,2-Dichloroethene
 Concen: 4.045 ug/l
 RT: 7.22 min Scan# 901
 Delta R.T. 0.01 min
 Lab File: VD067643.D
 Acq: 16 Nov 2020 16:18

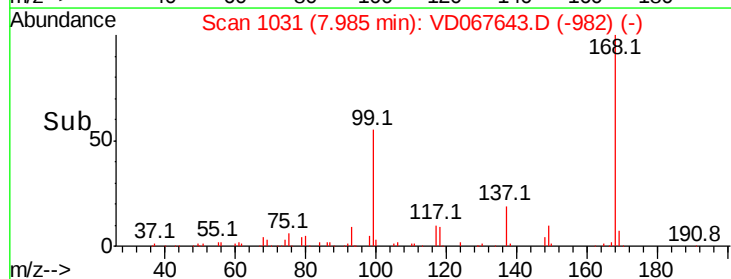
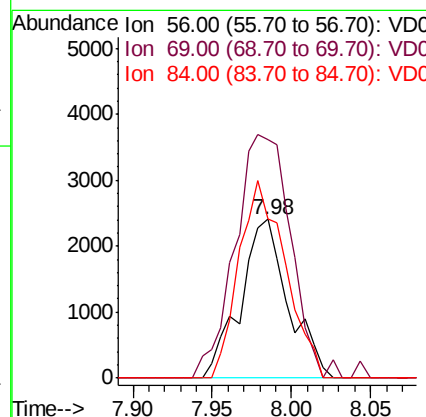
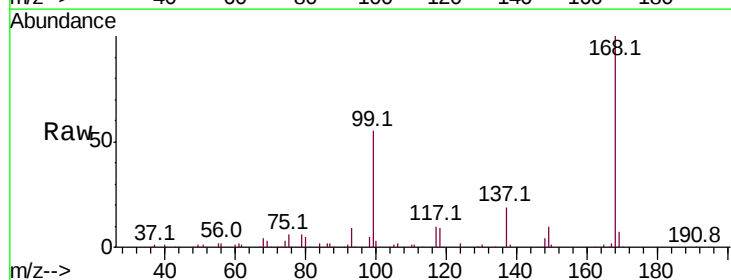
Instrument :
 MSVOA_D
 ClientSampleId :
 SS-6

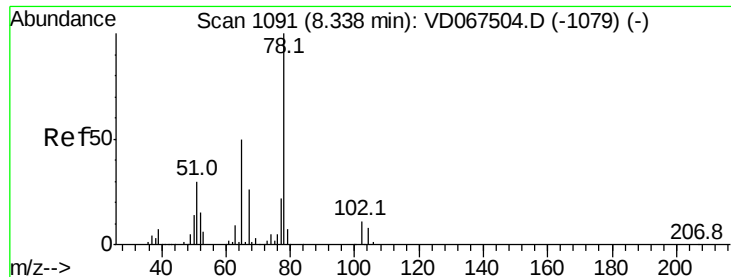
Tot Ion: 96 Resp: 10840
 Ion Ratio Lower Upper
 96 100
 61 113.6 0.0 251.6
 98 60.0 0.0 128.0



#31
 Cyclohexane
 Concen: 1.500 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.01 min
 Lab File: VD067643.D
 Acq: 16 Nov 2020 16:18

Tgt Ion: 56 Resp: 5051
 Ion Ratio Lower Upper
 56 100
 69 150.6 25.9 38.9#
 84 100.2 76.2 114.4





#33

1,2-Dichloroethane-d4

Concen: 51.642 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. -0.00 min

Lab File: VD067643.D

Acq: 16 Nov 2020 16:18

Instrument :

MSVOA_D

ClientSampleId :

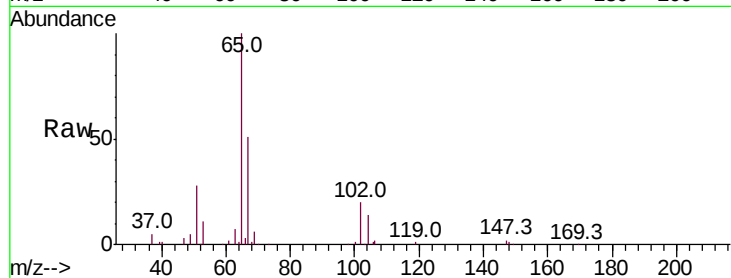
SS-6

Tot Ion: 65 Resp: 119931

Ion Ratio Lower Upper

65 100

67 50.4 0.0 99.4



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

60000

50000

40000

30000

20000

10000

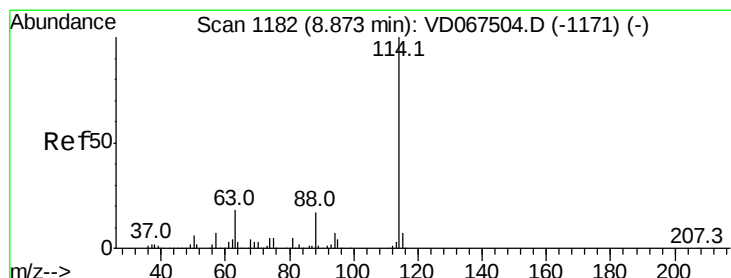
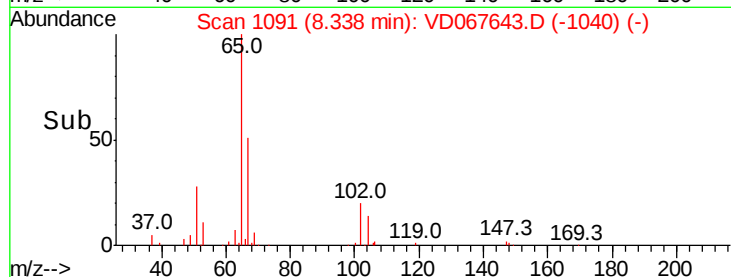
0

8.34

8.30

8.40

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.01 min

Lab File: VD067643.D

Acq: 16 Nov 2020 16:18

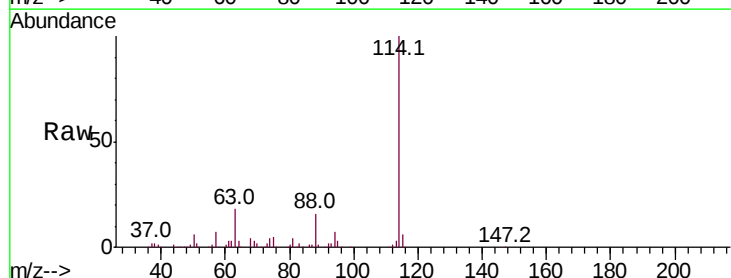
Tgt Ion:114 Resp: 424565

Ion Ratio Lower Upper

114 100

63 18.5 0.0 35.0

88 16.4 0.0 33.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

250000

200000

150000

100000

50000

0

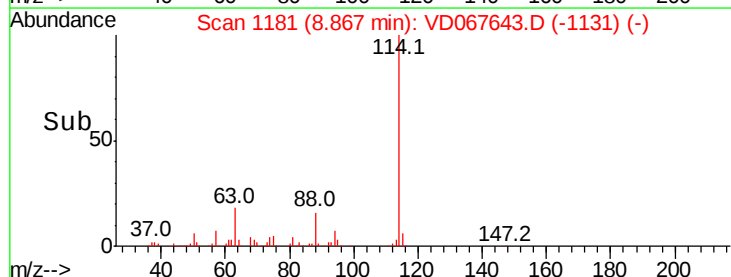
8.87

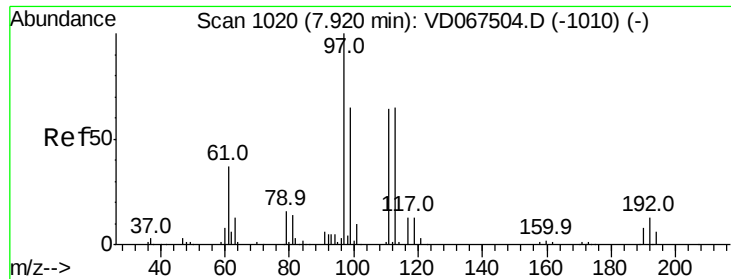
8.80

8.90

9.00

Time-->

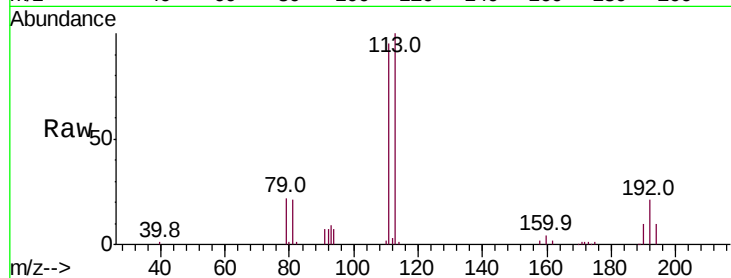




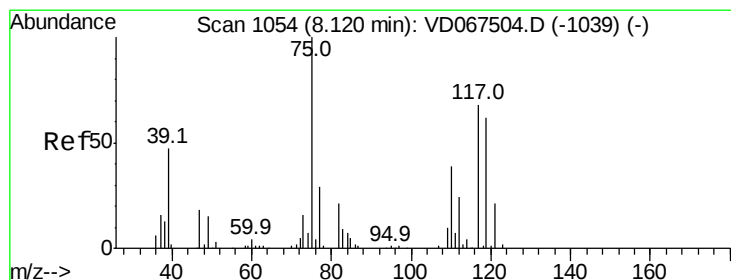
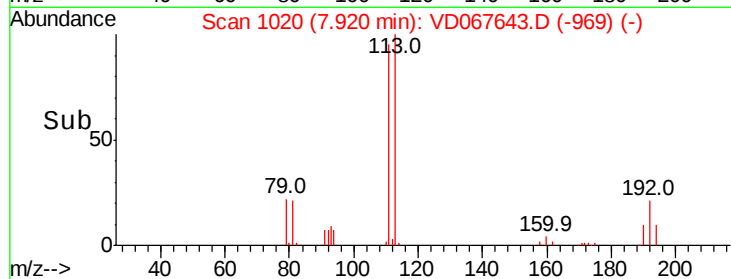
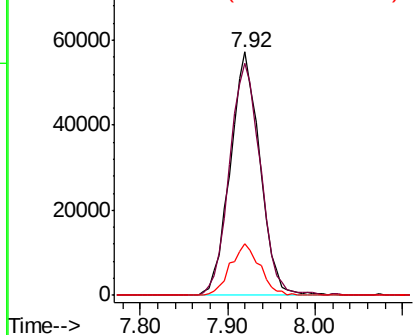
#35
 Dibromofluoromethane
 Concen: 51.540 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VD067643.D
 Acq: 16 Nov 2020 16:18

Instrument :
 MSVOA_D
 ClientSampleId :
 SS-6

Tot Ion:113 Resp: 131838
 Ion Ratio Lower Upper
 113 100
 111 99.3 80.0 120.0
 192 21.1 16.3 24.5

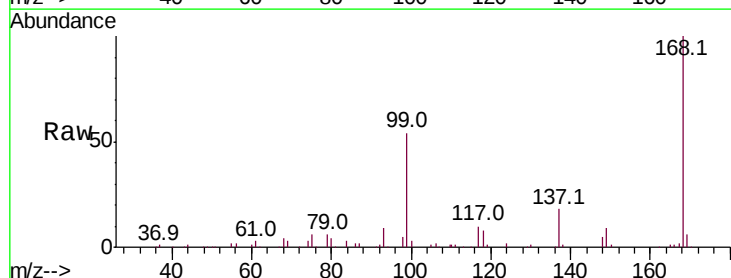


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

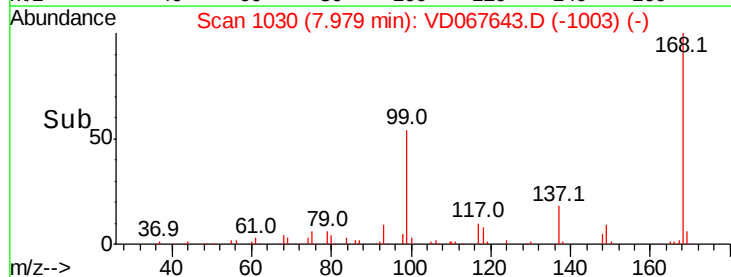
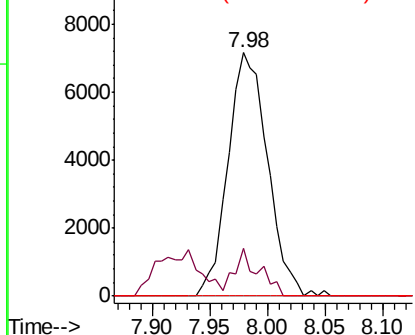


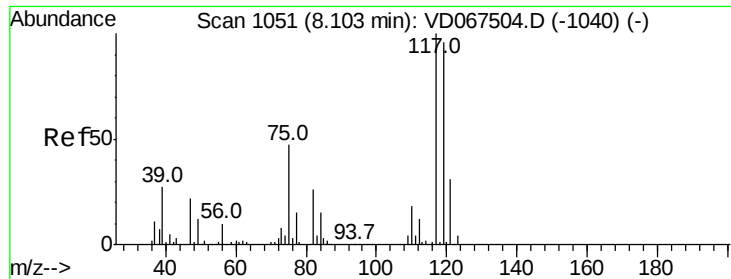
#36
 1,1-Dichloropropene
 Concen: 4.690 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD067643.D
 Acq: 16 Nov 2020 16:18

Tgt Ion: 75 Resp: 17043
 Ion Ratio Lower Upper
 75 100
 110 11.9 19.9 59.7#
 77 0.0 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V

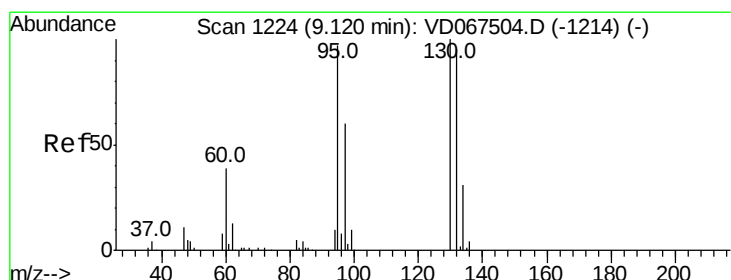
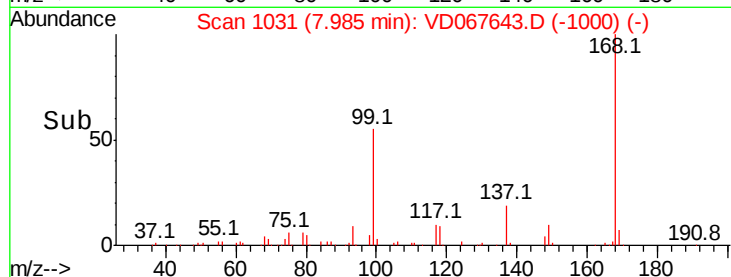
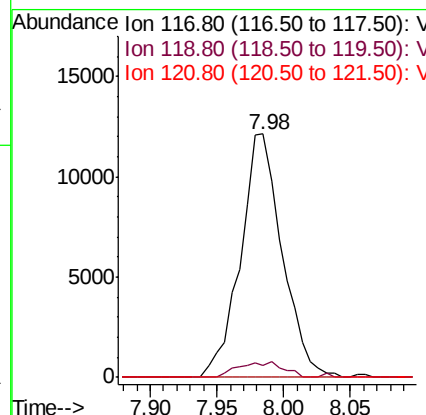
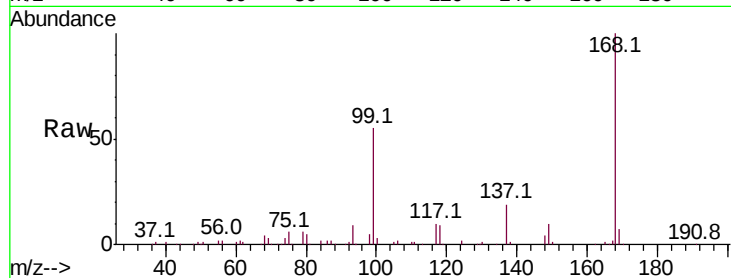




#38
Carbon Tetrachloride
Concen: 5.555 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.12 min
Lab File: VD067643.D
Acq: 16 Nov 2020 16:18

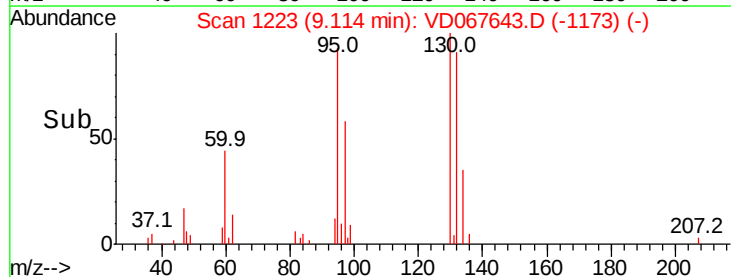
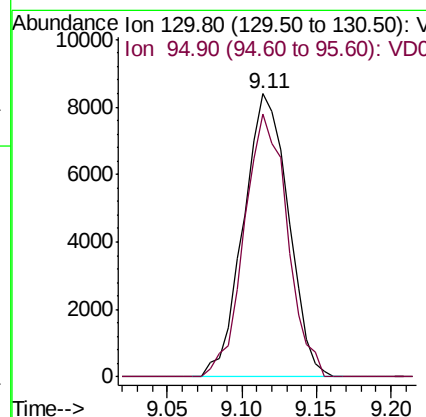
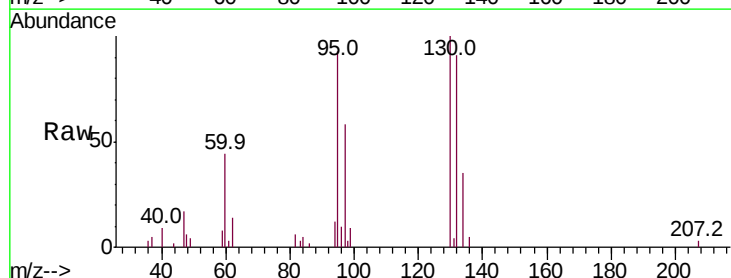
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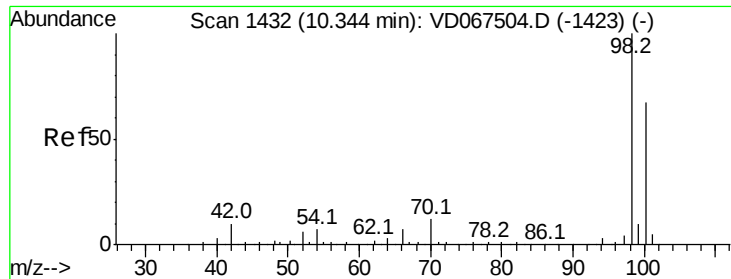
Tot Ion:117 Resp: 26228
Ion Ratio Lower Upper
117 100
119 4.7 76.9 115.3#
121 0.0 24.5 36.7#



#44
Trichloroethene
Concen: 5.396 ug/l
RT: 9.11 min Scan# 1223
Delta R.T. -0.01 min
Lab File: VD067643.D
Acq: 16 Nov 2020 16:18

Tgt Ion:130 Resp: 17466
Ion Ratio Lower Upper
130 100
95 93.1 0.0 194.4

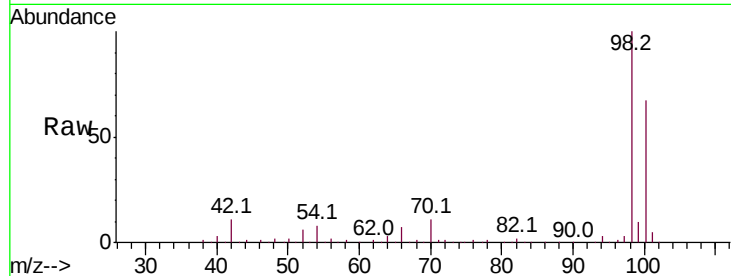




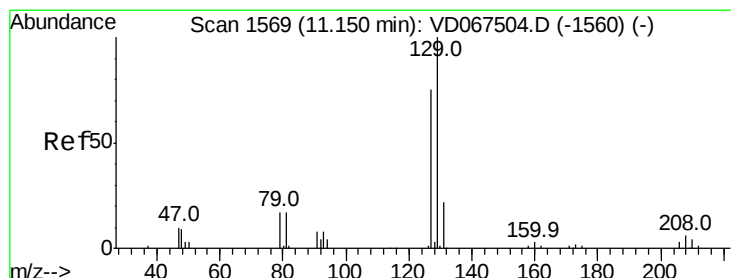
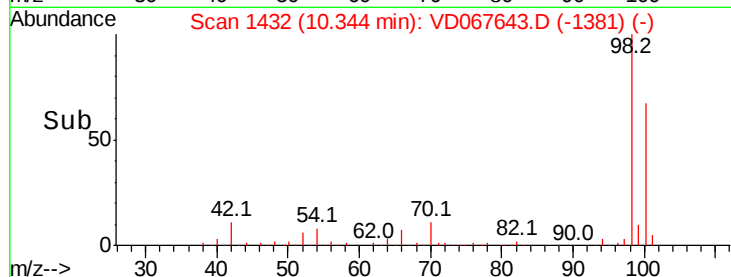
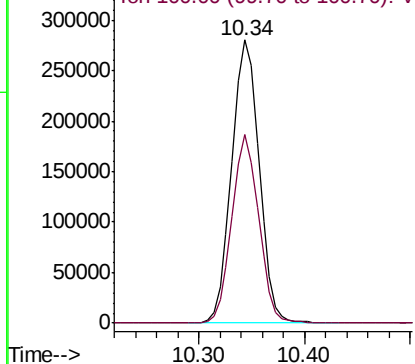
#50
Toluene-d8
Concen: 56.366 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD067643.D
Acq: 16 Nov 2020 16:18

Instrument :
MSVOA_D
ClientSampleId :
SS-6

Tot Ion: 98 Resp: 506693
Ion Ratio Lower Upper
98 100
100 65.0 53.0 79.6

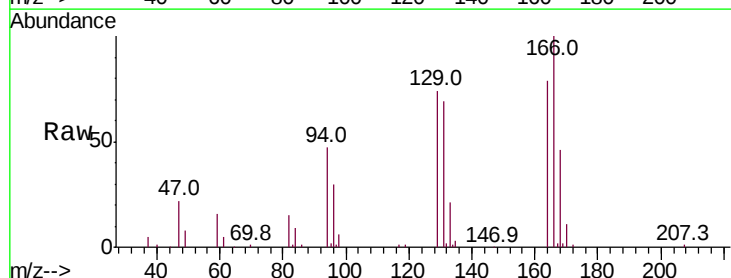


Abundance Ion 98.00 (97.70 to 98.70): VDC
Ion 100.00 (99.70 to 100.70): VDC

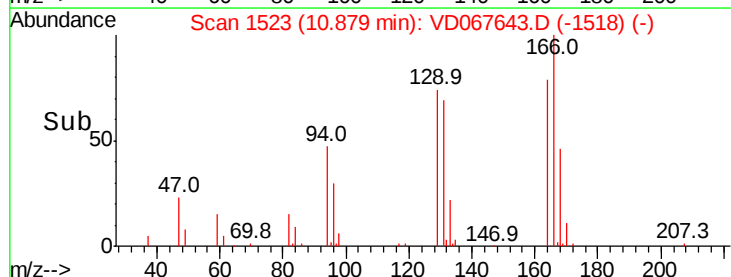
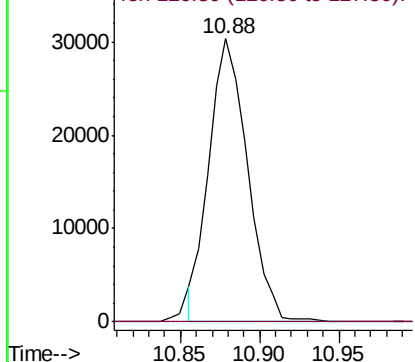


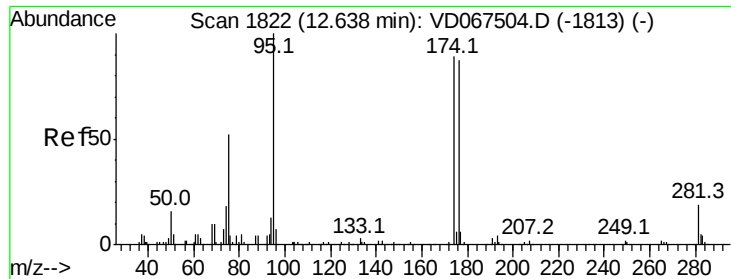
#60
Dibromochloromethane
Concen: 19.331 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. -0.27 min
Lab File: VD067643.D
Acq: 16 Nov 2020 16:18

Tgt Ion:129 Resp: 51202
Ion Ratio Lower Upper
129 100
127 0.0 38.0 114.1#



Abundance Ion 128.80 (128.50 to 129.50): VDC
Ion 126.80 (126.50 to 127.50): VDC

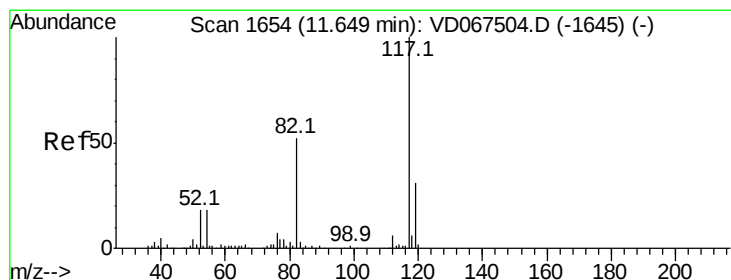
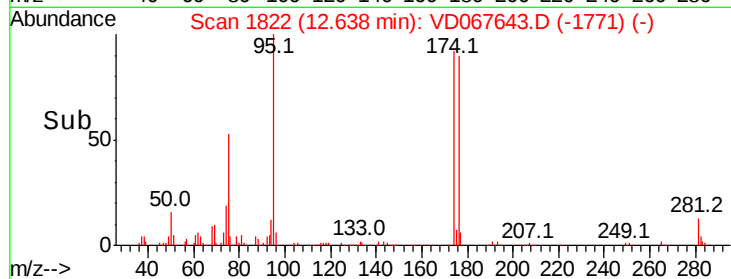
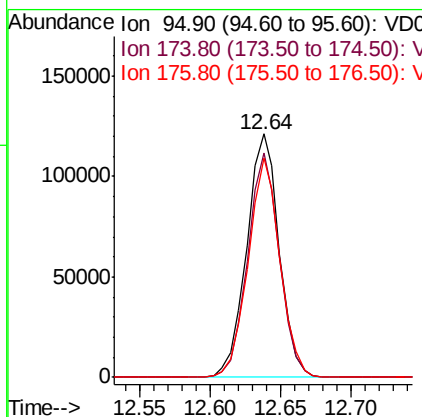
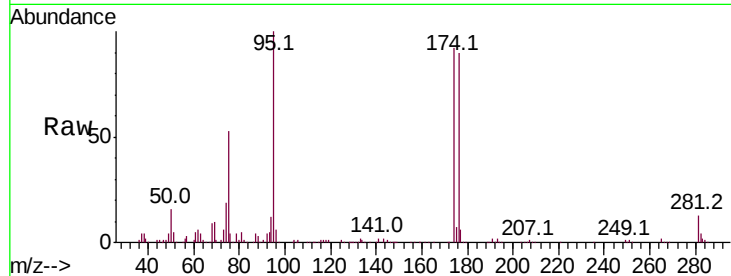




#62
4-Bromofluorobenzene
Concen: 63.090 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD067643.D
Acq: 16 Nov 2020 16:18

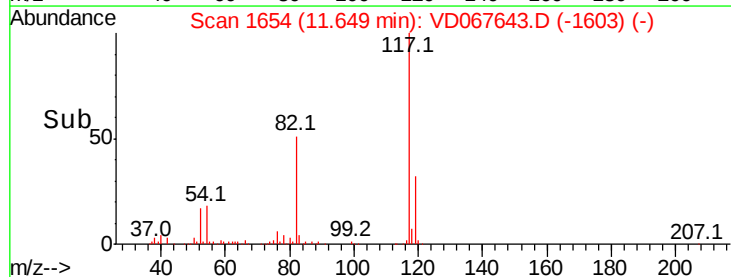
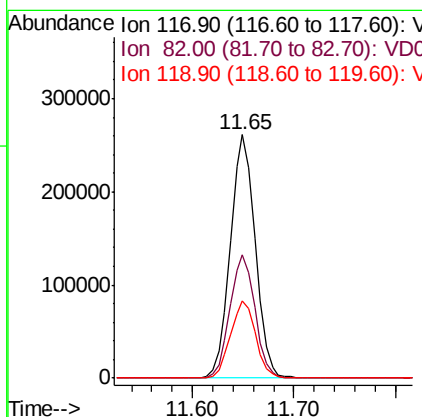
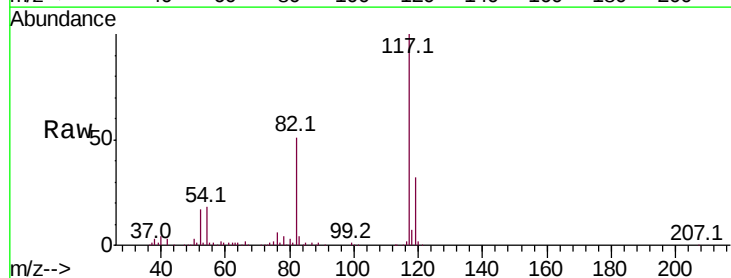
Instrument :
MSVOA_D
ClientSampleId :
SS-6

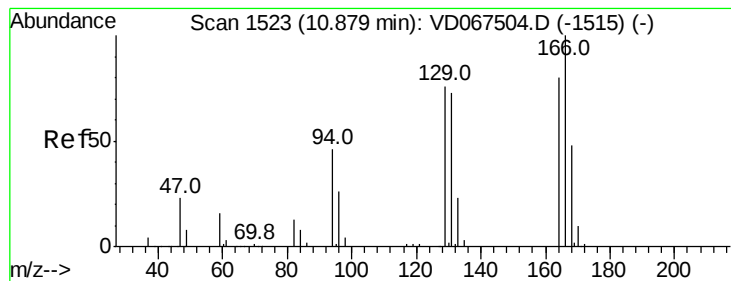
Tot Ion: 95 Resp: 195802
Ion Ratio Lower Upper
95 100
174 89.5 0.0 177.8
176 88.1 0.0 172.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD067643.D
Acq: 16 Nov 2020 16:18

Tgt Ion: 117 Resp: 445193
Ion Ratio Lower Upper
117 100
82 50.5 41.6 62.4
119 31.8 25.1 37.7





#64

Tetrachloroethene

Concen: 17.342 ug/l

RT: 10.88 min Scan# 1523

Delta R.T. -0.00 min

Lab File: VD067643.D

Acq: 16 Nov 2020 16:18

Instrument :

MSVOA_D

ClientSampleId :

SS-6

Tot Ion:164 Resp: 57179

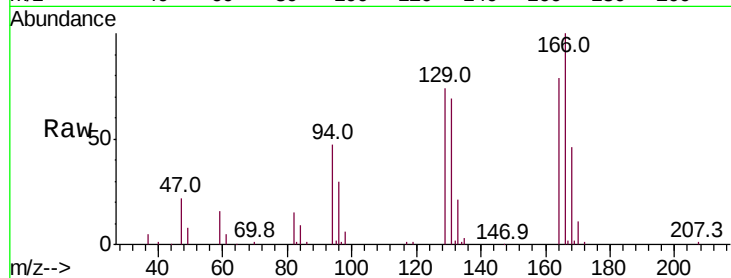
Ion Ratio Lower Upper

164 100

166 126.4 99.9 149.9

129 94.0 75.5 113.3

131 87.6 73.4 110.0



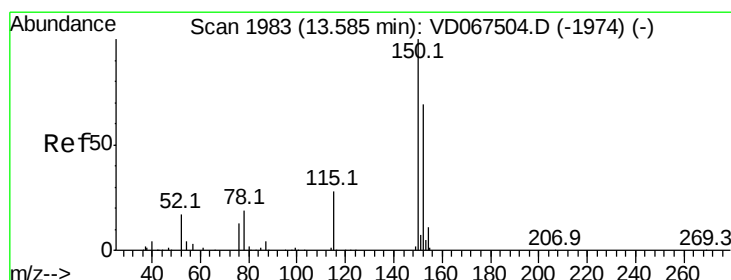
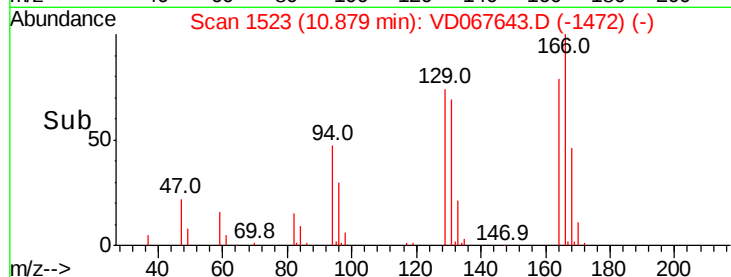
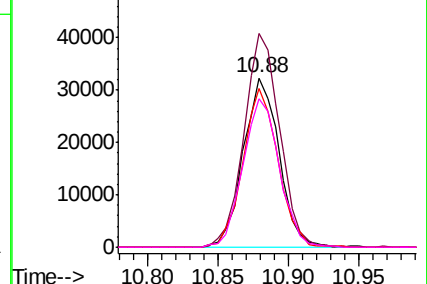
Abundance

Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.01 min

Lab File: VD067643.D

Acq: 16 Nov 2020 16:18

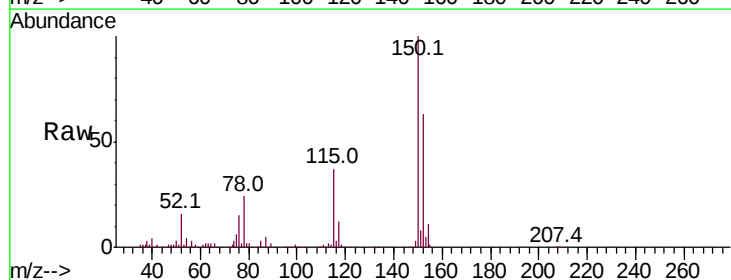
Tgt Ion:152 Resp: 225567

Ion Ratio Lower Upper

152 100

115 58.9 29.3 88.0

150 160.0 0.0 338.2

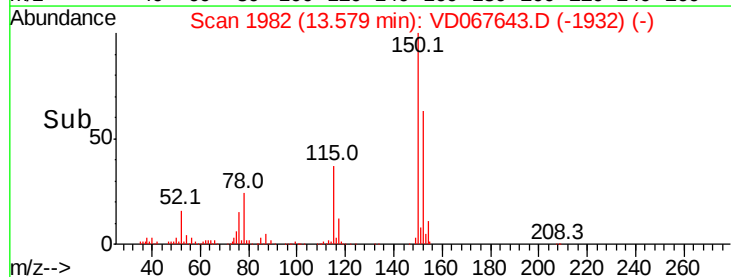
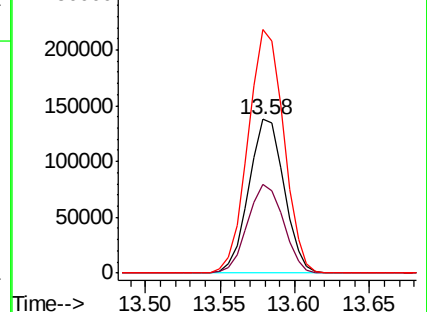


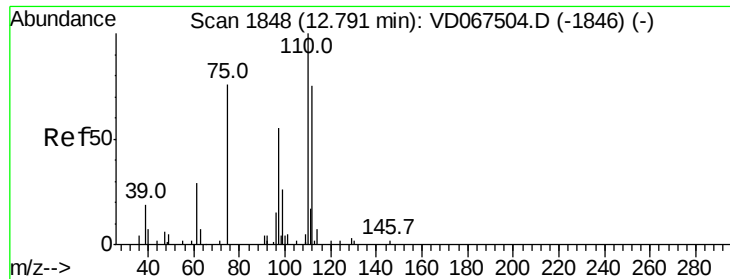
Abundance

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: 75.545 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067643.D

Acq: 16 Nov 2020 16:18

Instrument :

MSVOA_D

ClientSampleId :

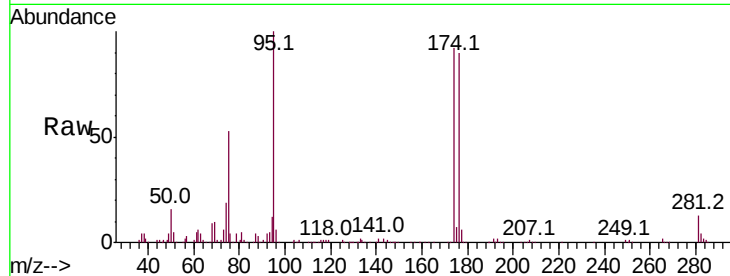
SS-6

Tot Ion: 75 Resp: 102798

Ion Ratio Lower Upper

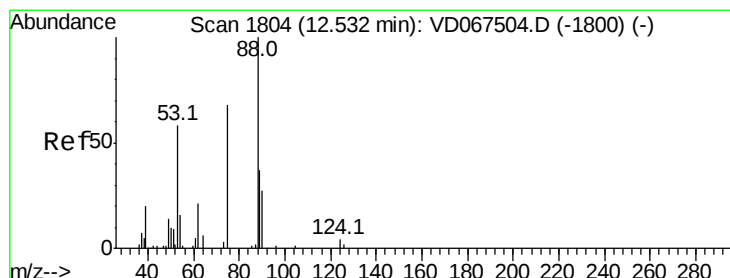
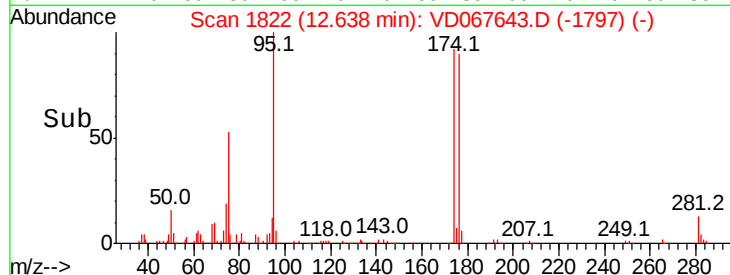
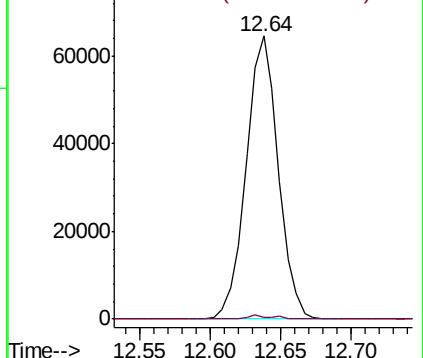
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 153.377 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067643.D

Acq: 16 Nov 2020 16:18

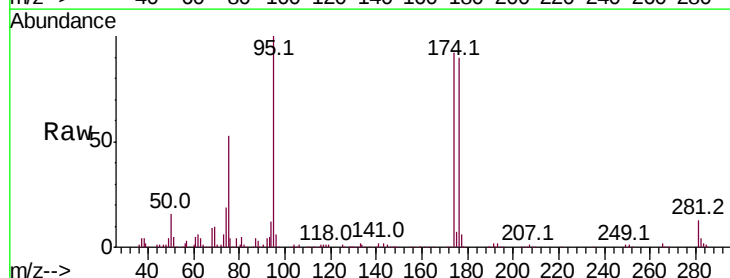
Tgt Ion: 75 Resp: 102798

Ion Ratio Lower Upper

75 100

53 0.0 75.9 113.9#

89 0.2 44.6 67.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

