

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111620\
 Data File : VD067642.D
 Acq On : 16 Nov 2020 15:51
 Operator : VA/SY
 Sample : L4687-06
 Misc : 6.03G/5.01ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SS-5

Quant Time: Nov 17 01:08:28 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	267460	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	420985	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	436616	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	209188	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	122594	52.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.84%	
35) Dibromofluoromethane	7.92	113	134736	53.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.24%	
50) Toluene-d8	10.34	98	494802	55.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.02%	
62) 4-Bromofluorobenzene	12.64	95	185102	60.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	120.30%	

Target Compounds

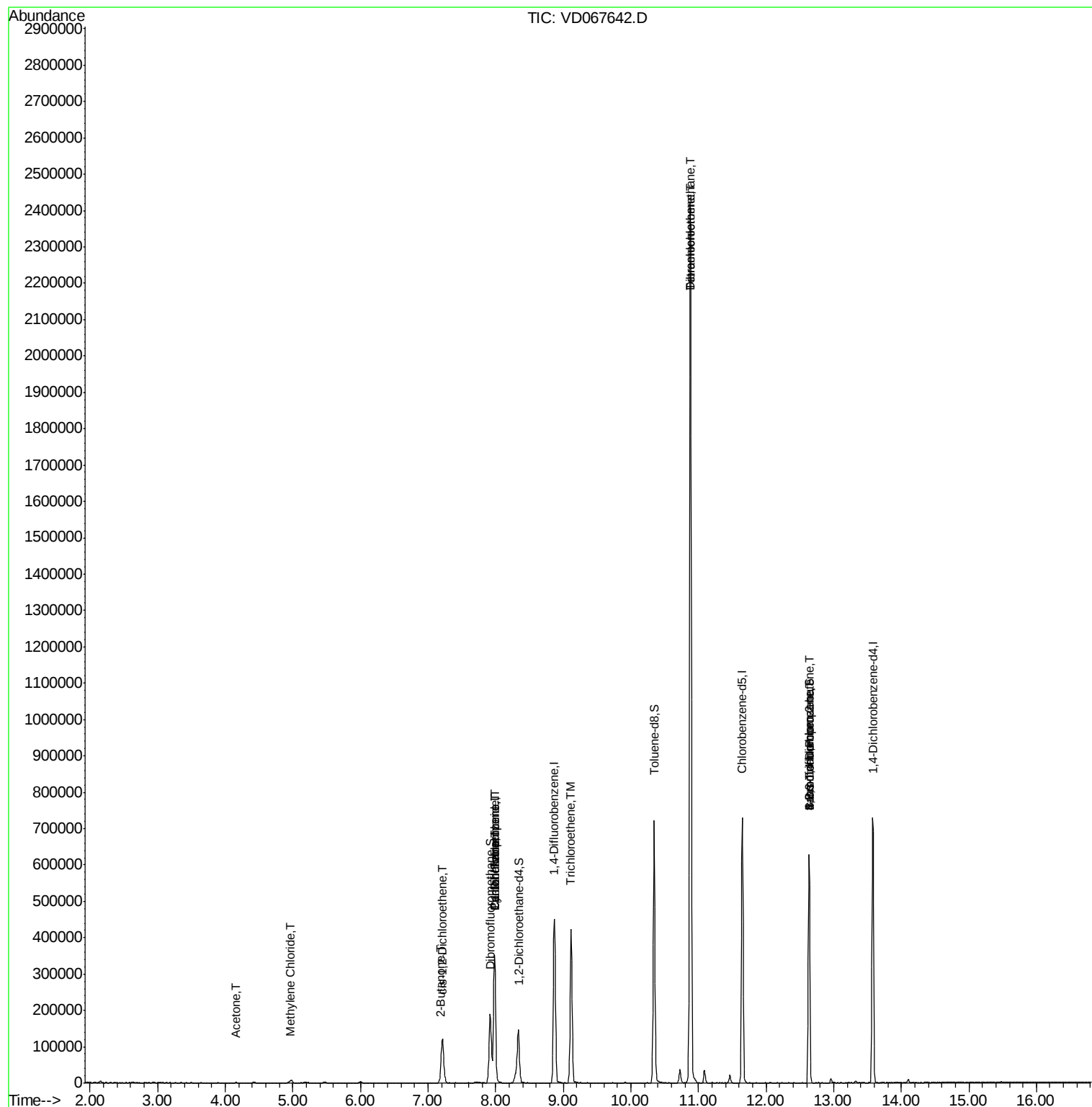
						Qvalue
2) Dichlorodifluoromethane	1.99	85	161	Below Cal	#	44
11) Tert butyl alcohol	5.20	59	908	Below Cal	#	79
16) Acetone	4.16	43	829	2.369	ug/l #	43
20) Methylene Chloride	4.97	84	6062	2.452	ug/l #	76
25) 2-Butanone	7.18	43	682	1.824	ug/l #	42
27) cis-1,2-Dichloroethene	7.21	96	73547	27.252	ug/l	89
31) Cyclohexane	7.98	56	5340	1.574	ug/l #	38
36) 1,1-Dichloropropene	7.98	75	18000	4.995	ug/l #	50
38) Carbon Tetrachloride	7.98	117	27452	5.863	ug/l #	17
44) Trichloroethene	9.11	130	163937	51.078	ug/l	100
60) Dibromochloromethane	10.88	129	534465	203.498	ug/l #	11
64) Tetrachloroethene	10.88	164	577734	178.669	ug/l	97
71) Bromoform	12.64	173	1780	1.053	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	95550	75.717	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	95550	153.725	ug/l #	10

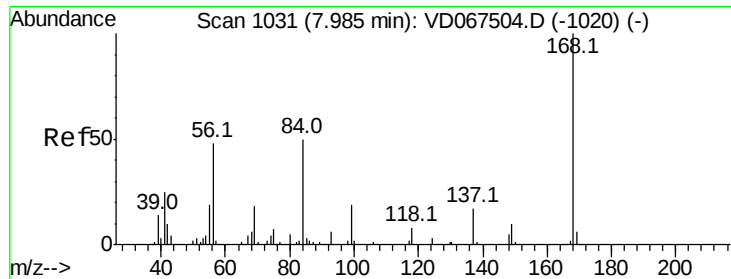
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD067642.D

Acq: 16 Nov 2020 15:51

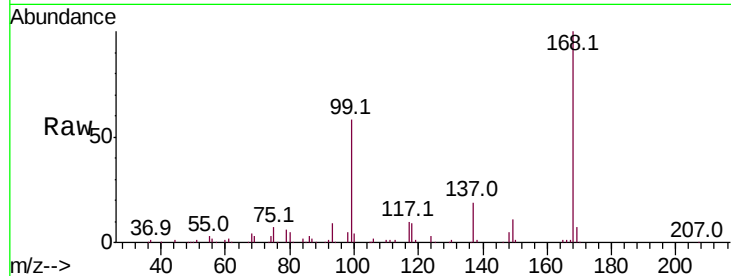
Instrument :
MSVOA_D
ClientSampleId :
SS-5

Tot Ion:168 Resp: 267460

Ion Ratio Lower Upper

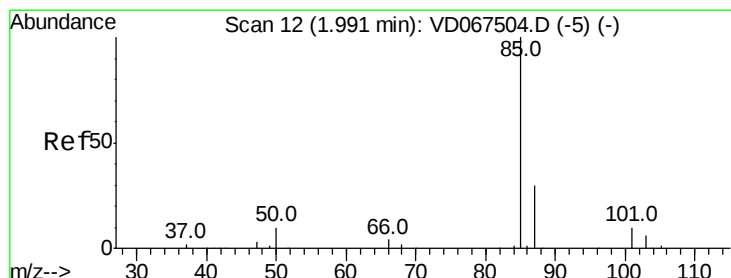
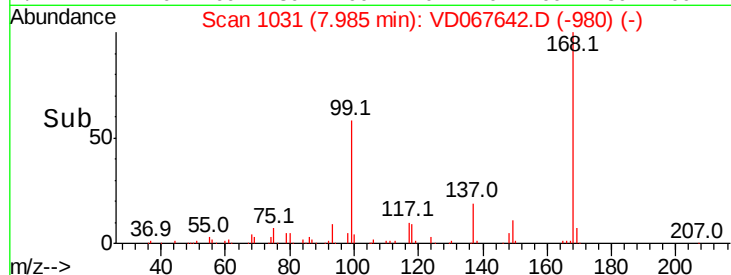
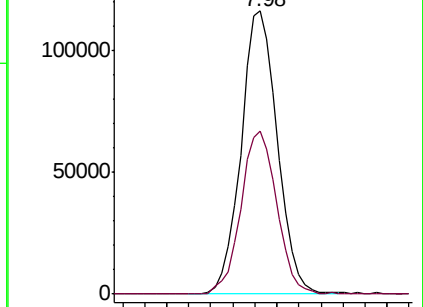
168 100

99 57.6 45.0 67.6



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: 1.99 min Scan# 11

Delta R.T. -0.01 min

Lab File: VD067642.D

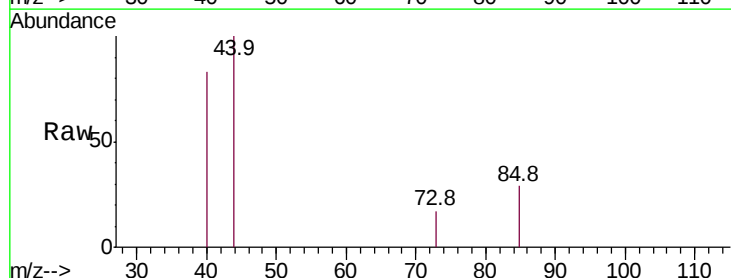
Acq: 16 Nov 2020 15:51

Tgt Ion: 85 Resp: 161

Ion Ratio Lower Upper

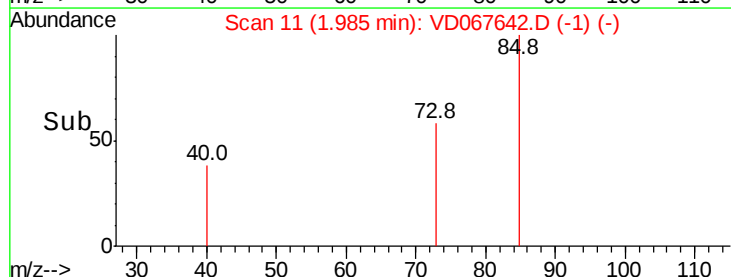
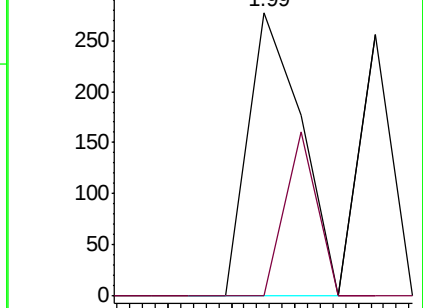
85 100

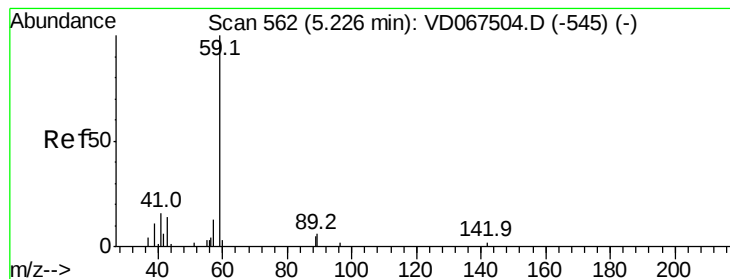
87 0.0 15.3 45.8#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC



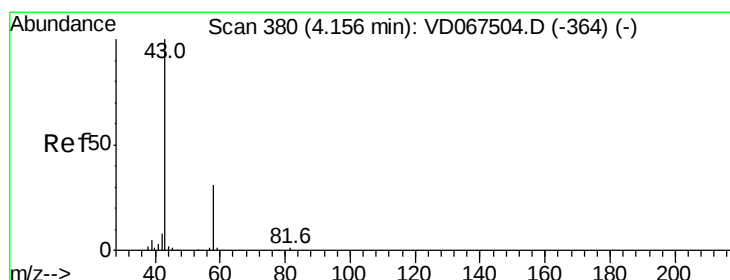
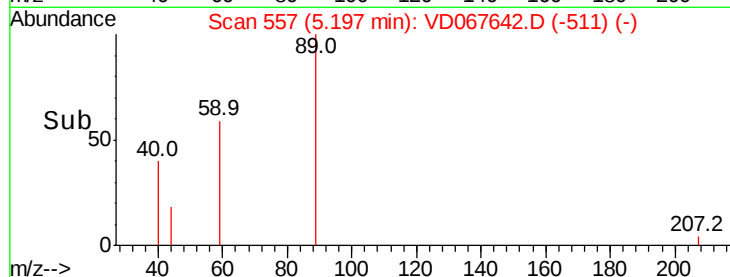
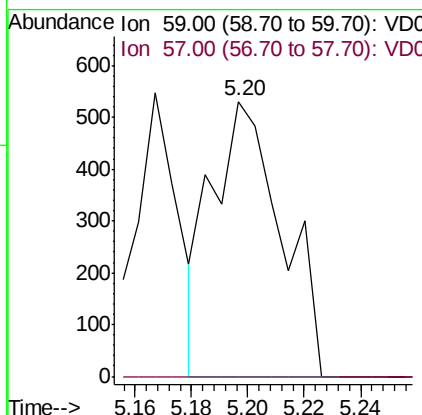
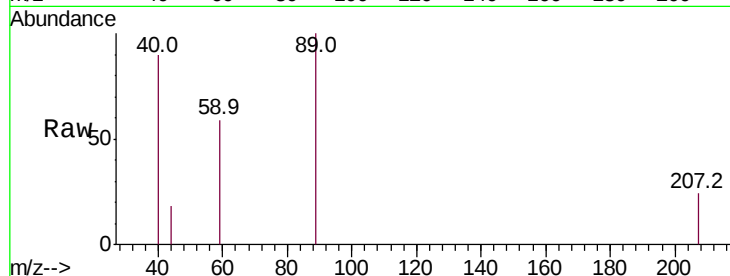


#11

Tert butyl alcohol
Concen: Below Cal
RT: 5.20 min Scan# 557
Delta R.T. -0.03 min
Lab File: VD067642.D
Acq: 16 Nov 2020 15:51

Instrument :
MSVOA_D
ClientSampleId :
SS-5

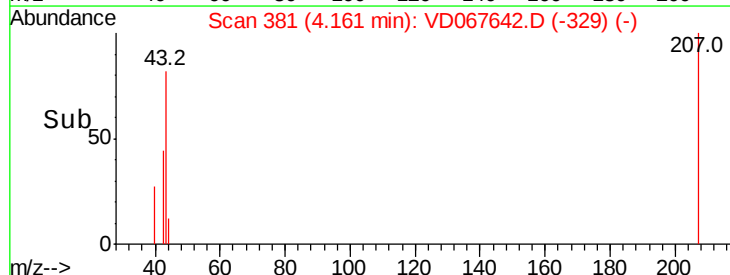
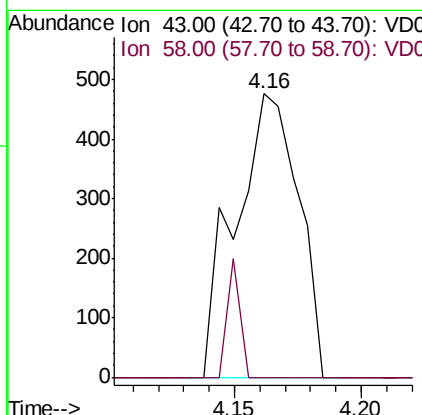
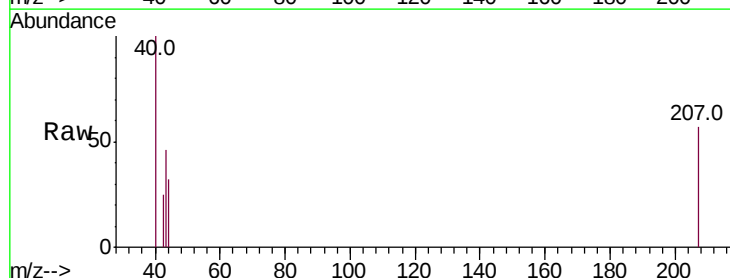
Tot Ion: 59 Resp: 908
Ion Ratio Lower Upper
59 100
57 0.0 5.9 8.9#

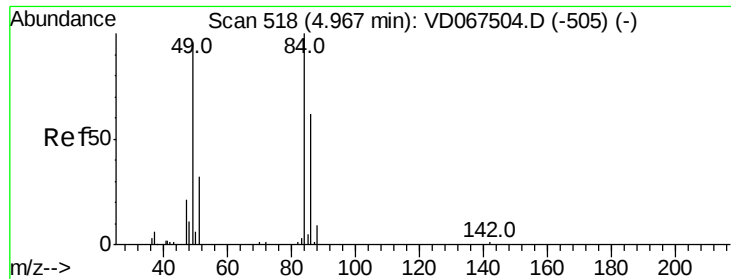


#16

Acetone
Concen: 2.369 ug/l
RT: 4.16 min Scan# 381
Delta R.T. 0.01 min
Lab File: VD067642.D
Acq: 16 Nov 2020 15:51

Tgt Ion: 43 Resp: 829
Ion Ratio Lower Upper
43 100
58 0.0 25.2 37.8#

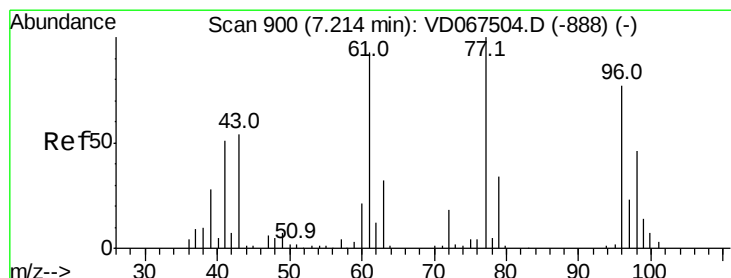
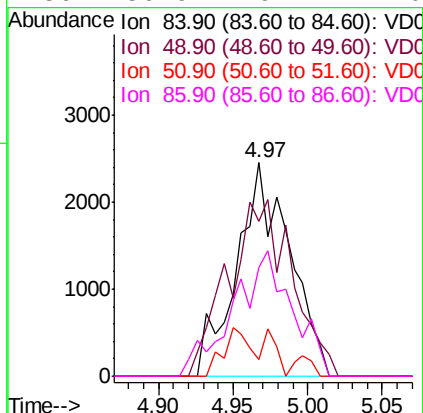
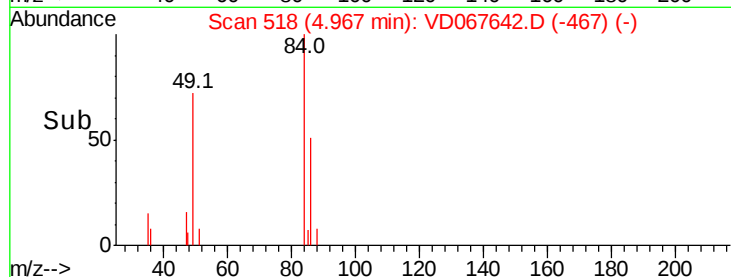
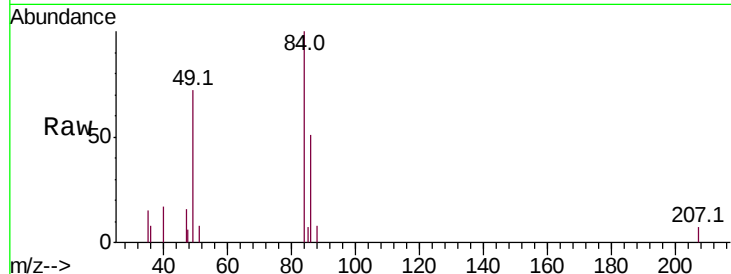




#20
Methvlene Chloride
Concen: 2.452 ug/l
RT: 4.97 min Scan# 518
Delta R.T. -0.00 min
Lab File: VD067642.D
Acq: 16 Nov 2020 15:51

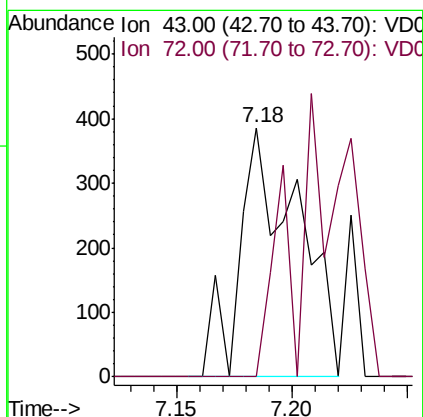
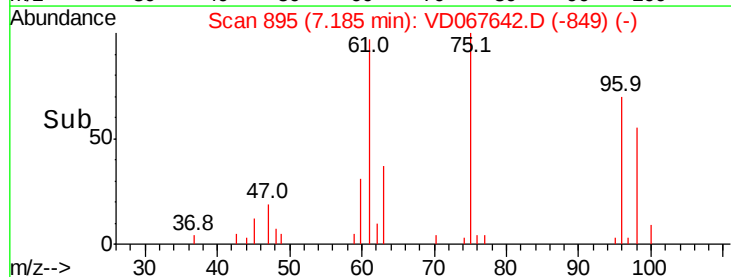
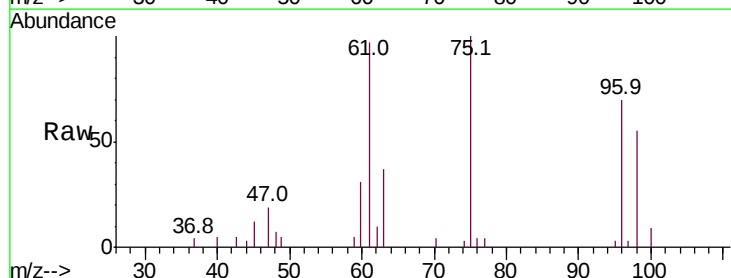
Instrument :
MSVOA_D
ClientSampled :
SS-5

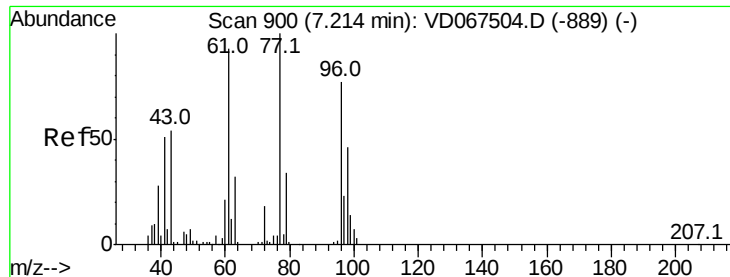
Tot Ion: 84 Resp: 6062
Ion Ratio Lower Upper
84 100
49 72.5 77.0 115.4#
51 7.9 25.4 38.2#
86 50.9 49.4 74.0



#25
2-Butanone
Concen: 1.824 ug/l
RT: 7.18 min Scan# 895
Delta R.T. -0.03 min
Lab File: VD067642.D
Acq: 16 Nov 2020 15:51

Tgt Ion: 43 Resp: 682
Ion Ratio Lower Upper
43 100
72 0.0 26.4 39.6#

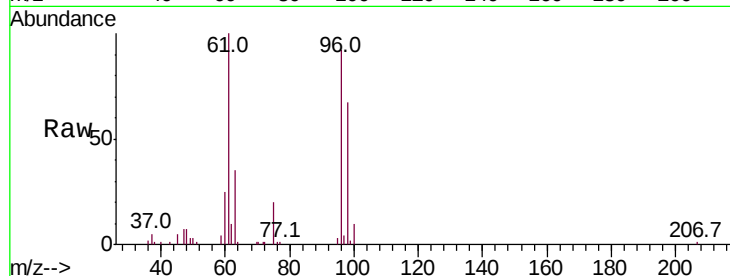




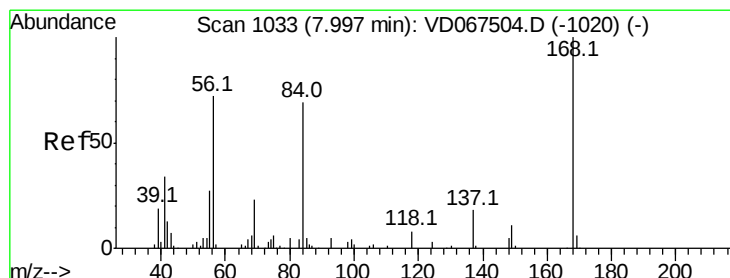
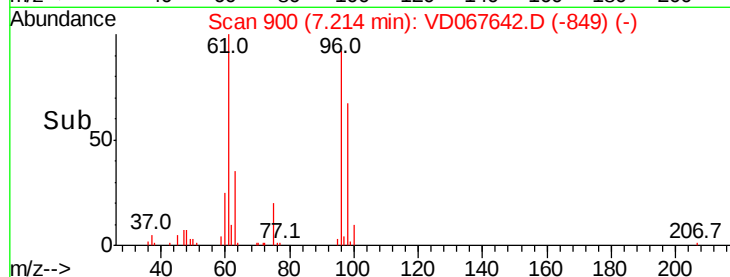
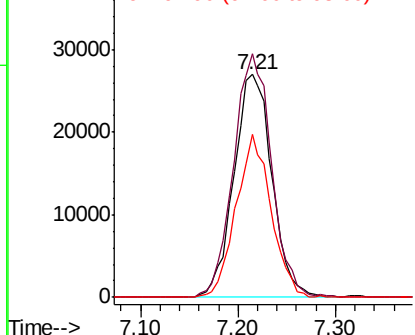
#27
 cis-1,2-Dichloroethene
 Concen: 27.252 ug/l
 RT: 7.21 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VD067642.D
 Acq: 16 Nov 2020 15:51

Instrument :
 MSVOA_D
 ClientSampleId :
 SS-5

Tot Ion: 96 Resp: 73547
 Ion Ratio Lower Upper
 96 100
 61 108.7 0.0 251.6
 98 67.1 0.0 128.0

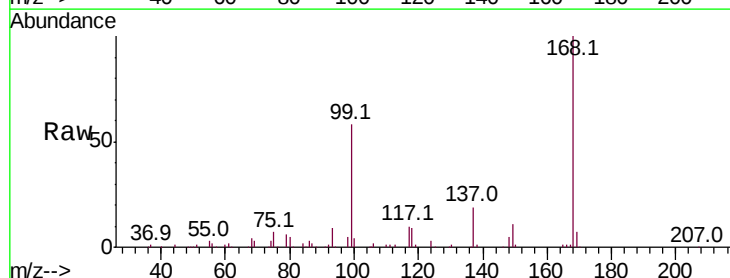


Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.90 (60.60 to 61.60): VDC
 Ion 97.90 (97.60 to 98.60): VDC

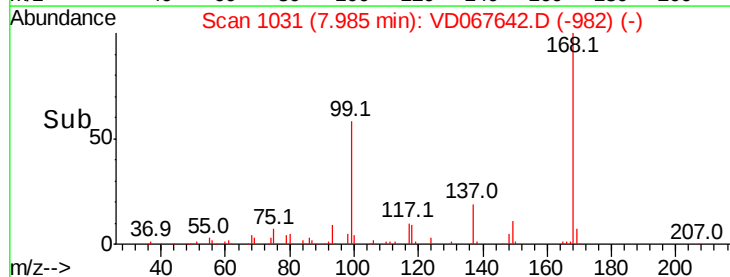
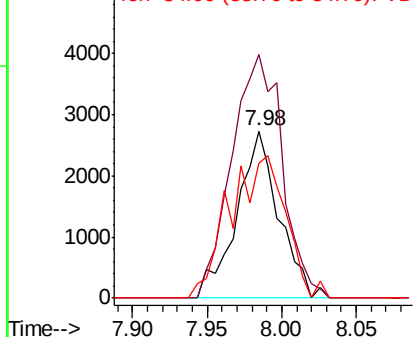


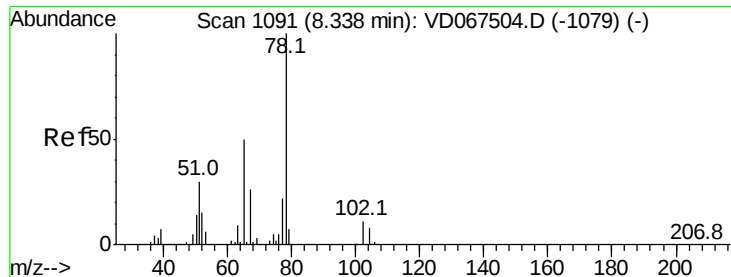
#31
 Cyclohexane
 Concen: 1.574 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.01 min
 Lab File: VD067642.D
 Acq: 16 Nov 2020 15:51

Tgt Ion: 56 Resp: 5340
 Ion Ratio Lower Upper
 56 100
 69 145.7 25.9 38.9#
 84 80.9 76.2 114.4



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: 52.421 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. -0.00 min

Lab File: VD067642.D

Acq: 16 Nov 2020 15:51

Instrument :

MSVOA_D

ClientSampleId :

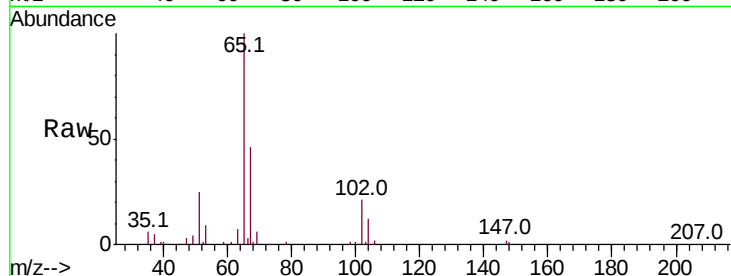
SS-5

Tot Ion: 65 Resp: 122594

Ion Ratio Lower Upper

65 100

67 48.2 0.0 99.4



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.34

60000

50000

40000

30000

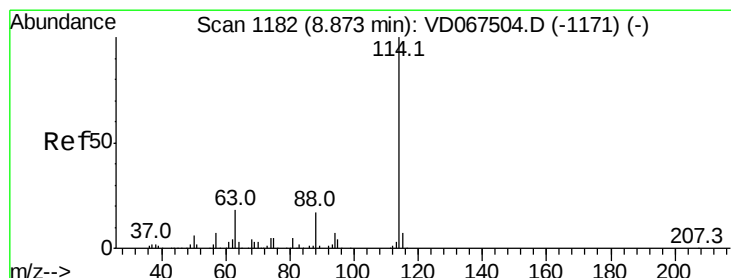
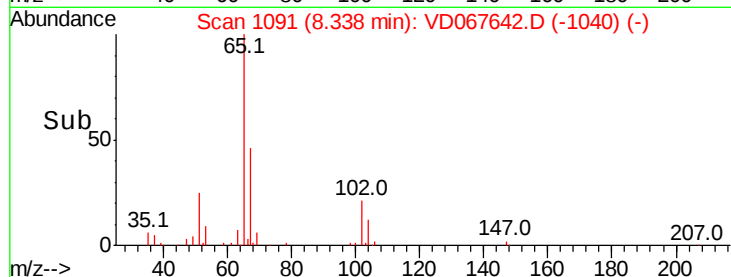
20000

10000

0

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: VD067642.D

Acq: 16 Nov 2020 15:51

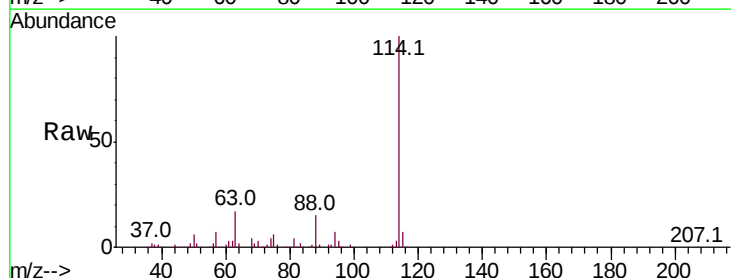
Tgt Ion: 114 Resp: 420985

Ion Ratio Lower Upper

114 100

63 17.5 0.0 35.0

88 14.9 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

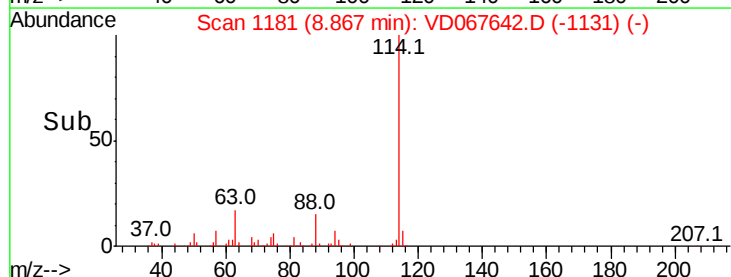
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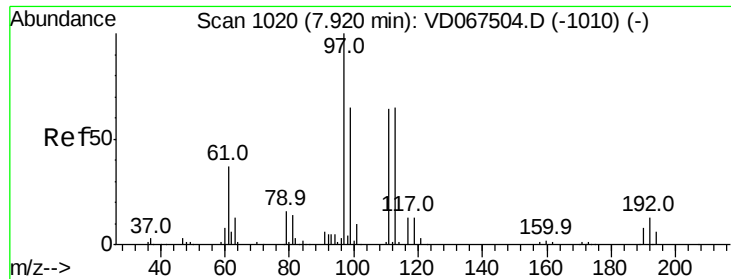
50000

0

8.80 8.90 9.00

Time-->

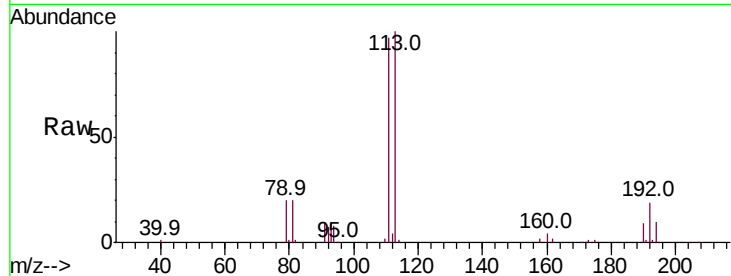




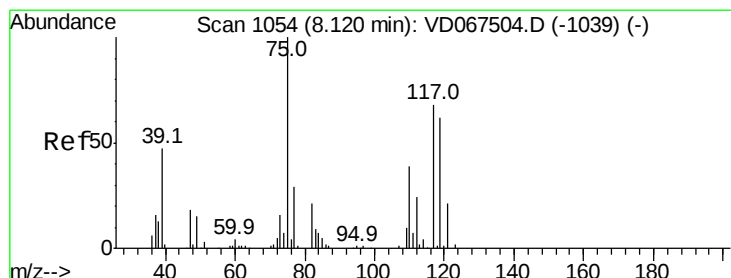
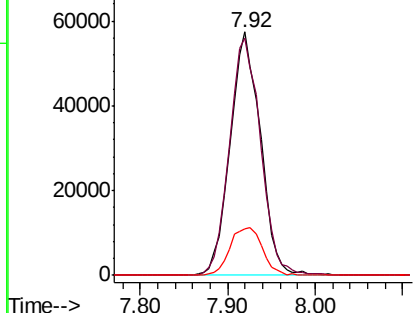
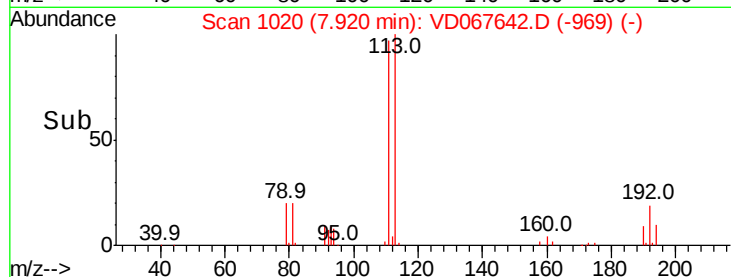
#35
 Dibromofluoromethane
 Concen: 53.120 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VD067642.D
 Acq: 16 Nov 2020 15:51

Instrument :
 MSVOA_D
 ClientSampleId :
 SS-5

Tot Ion:113 Resp: 134736
 Ion Ratio Lower Upper
 113 100
 111 100.8 80.0 120.0
 192 21.1 16.3 24.5

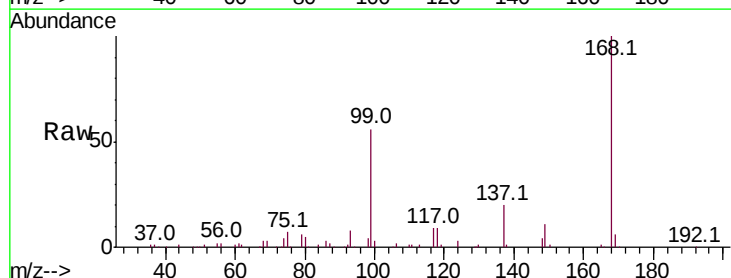


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

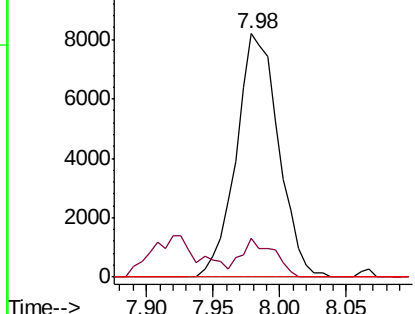
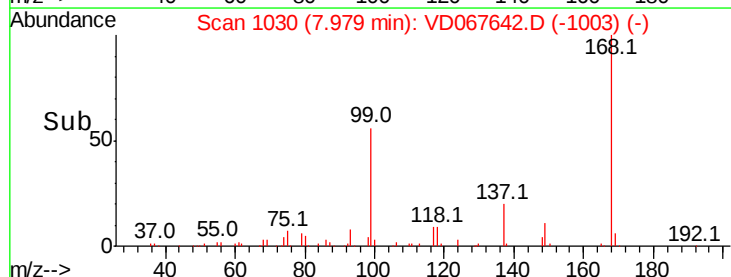


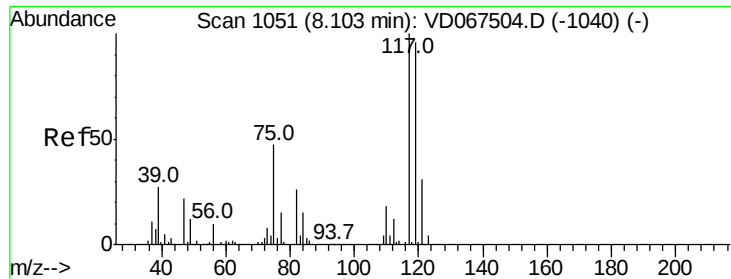
#36
 1,1-Dichloropropene
 Concen: 4.995 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD067642.D
 Acq: 16 Nov 2020 15:51

Tgt Ion: 75 Resp: 18000
 Ion Ratio Lower Upper
 75 100
 110 12.2 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: 5.863 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.12 min

Lab File: VD067642.D

Acq: 16 Nov 2020 15:51

Instrument :

MSVOA_D

ClientSampleId :

SS-5

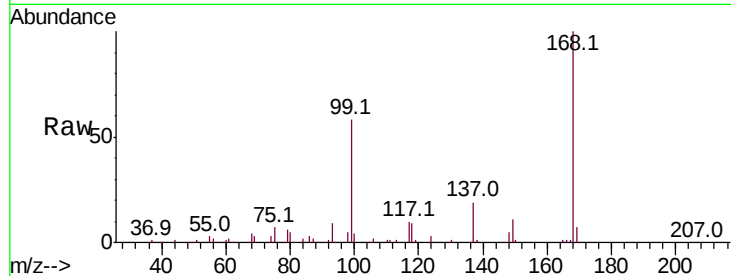
Tot Ion:117 Resp: 27452

Ion Ratio Lower Upper

117 100

119 6.9 76.9 115.3#

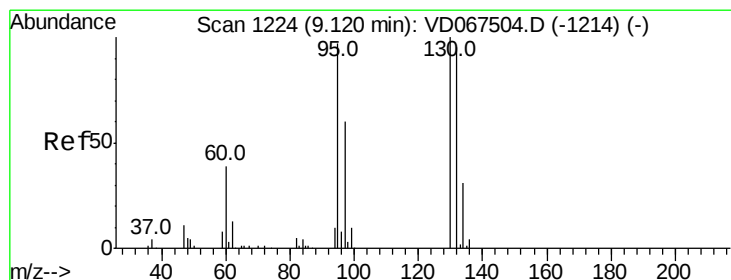
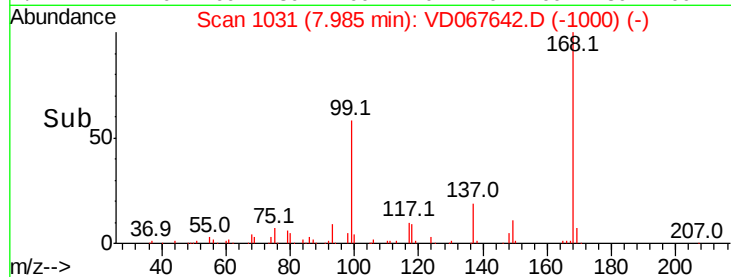
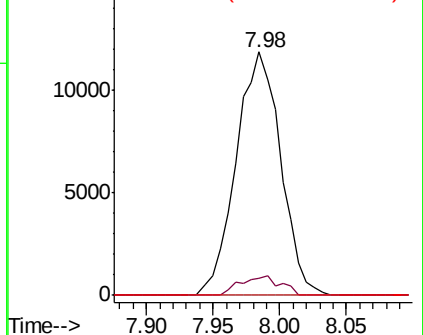
121 0.0 24.5 36.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 51.078 ug/l

RT: 9.11 min Scan# 1223

Delta R.T. -0.01 min

Lab File: VD067642.D

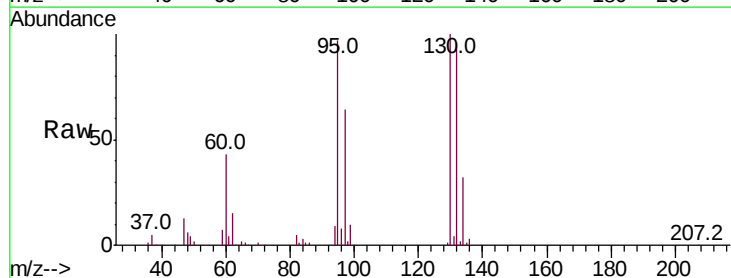
Acq: 16 Nov 2020 15:51

Tgt Ion:130 Resp: 163937

Ion Ratio Lower Upper

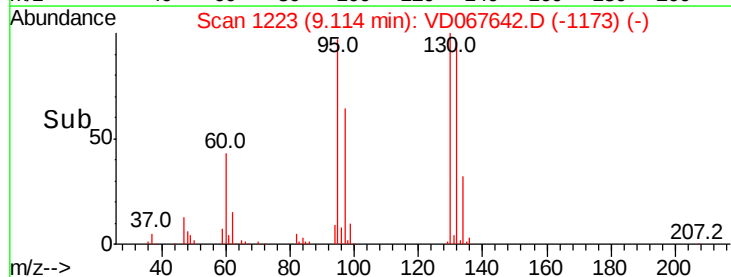
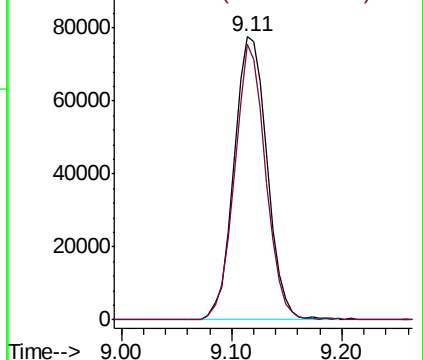
130 100

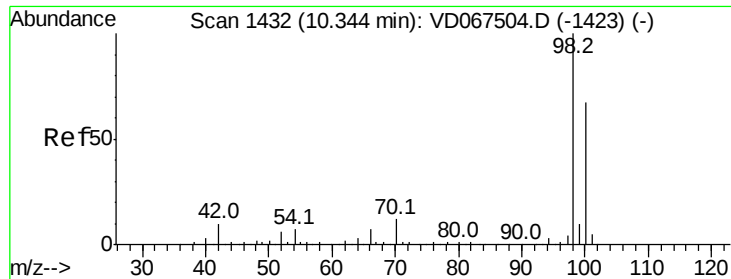
95 97.5 0.0 194.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V





#50

Toluene-d8

Concen: 55.511 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD067642.D

Acq: 16 Nov 2020 15:51

Instrument :

MSVOA_D

ClientSampled :

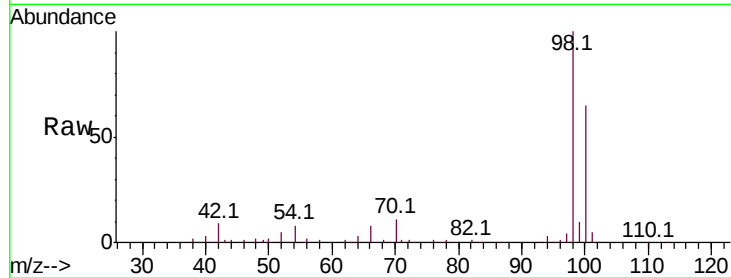
SS-5

Tot Ion: 98 Resp: 494802

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

10.34

250000

200000

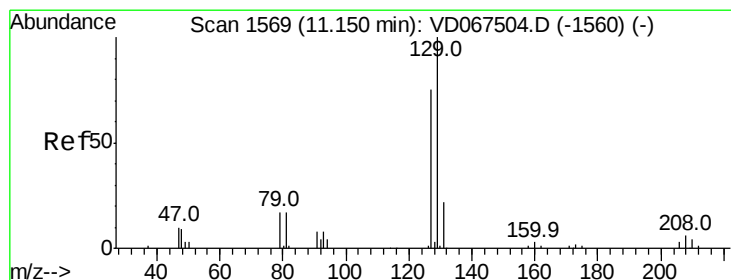
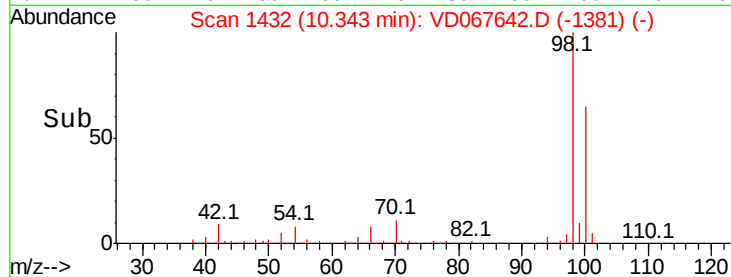
150000

100000

50000

0

Time--> 10.20 10.30 10.40 10.50



#60

Dibromochloromethane

Concen: 203.498 ug/l

RT: 10.88 min Scan# 1523

Delta R.T. -0.27 min

Lab File: VD067642.D

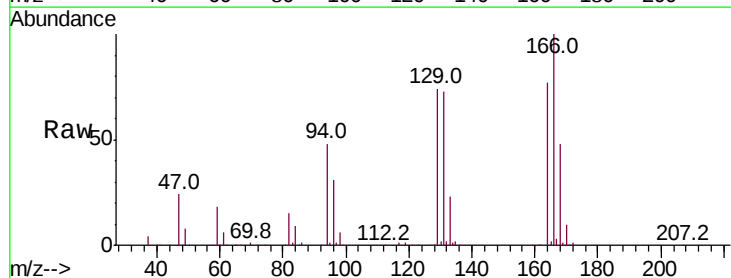
Acq: 16 Nov 2020 15:51

Tgt Ion:129 Resp: 534465

Ion Ratio Lower Upper

129 100

127 0.1 38.0 114.1#



Abundance Ion 128.80 (128.50 to 129.50): VDC

Ion 126.80 (126.50 to 127.50): VDC

10.88

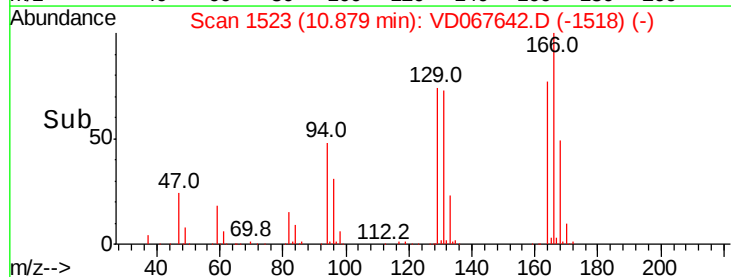
300000

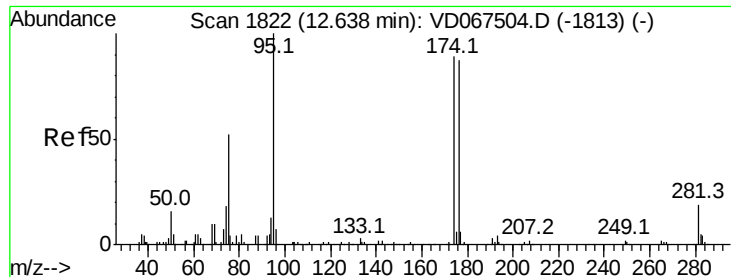
200000

100000

0

Time--> 10.80 10.90 11.00





#62

4-Bromofluorobenzene

Concen: 60.149 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD067642.D

Acq: 16 Nov 2020 15:51

Instrument :

MSVOA_D

ClientSampleId :

SS-5

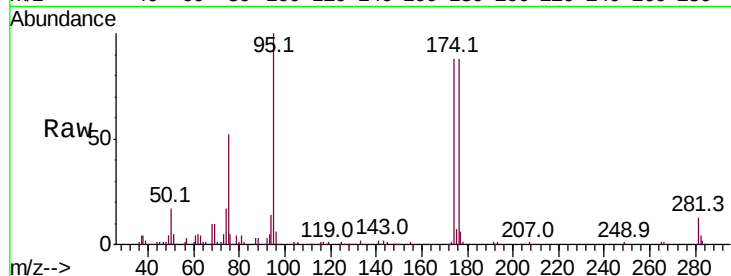
Tot Ion: 95 Resp: 185102

Ion Ratio Lower Upper

95 100

174 89.0 0.0 177.8

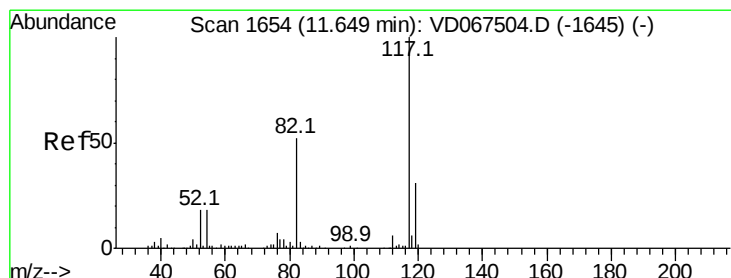
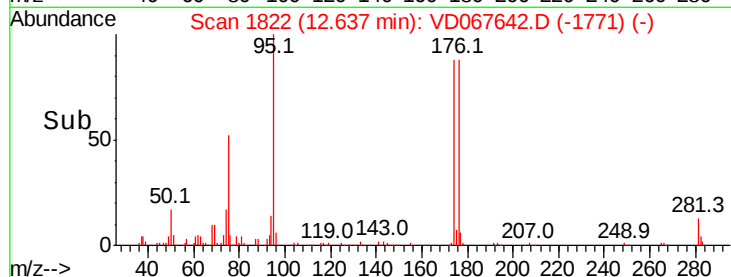
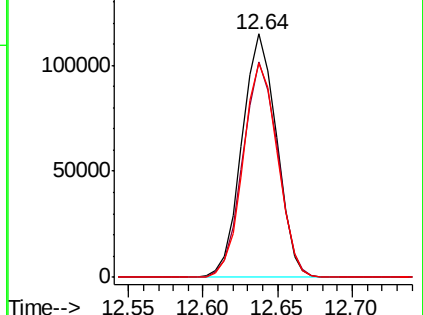
176 87.4 0.0 172.0



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: 11.65 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VD067642.D

Acq: 16 Nov 2020 15:51

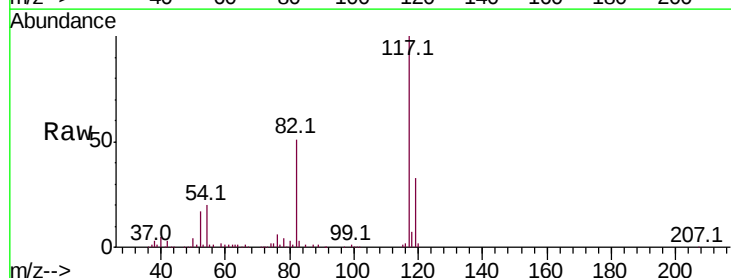
Tgt Ion: 117 Resp: 436616

Ion Ratio Lower Upper

117 100

82 50.6 41.6 62.4

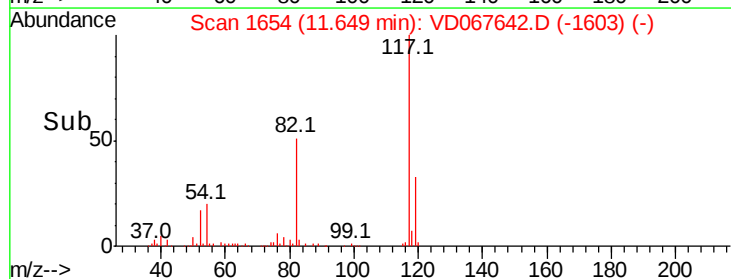
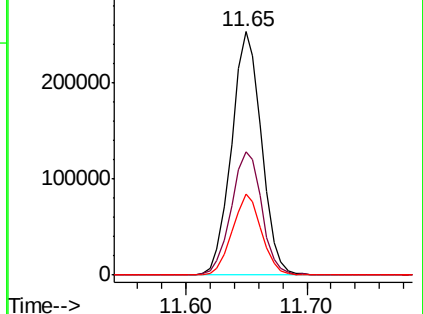
119 33.2 25.1 37.7

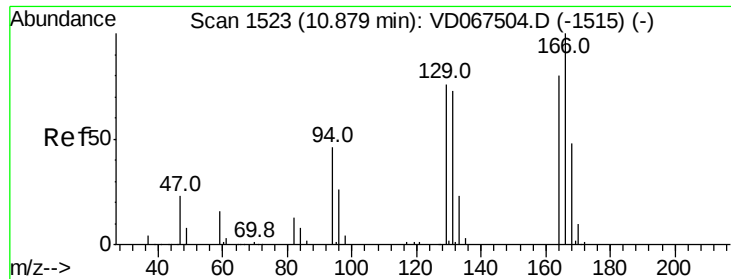


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 178.669 ug/l

RT: 10.88 min Scan# 1523

Delta R.T. -0.00 min

Lab File: VD067642.D

Acq: 16 Nov 2020 15:51

Instrument :

MSVOA_D

ClientSampleId :

SS-5

Tot Ion:164 Resp: 577734

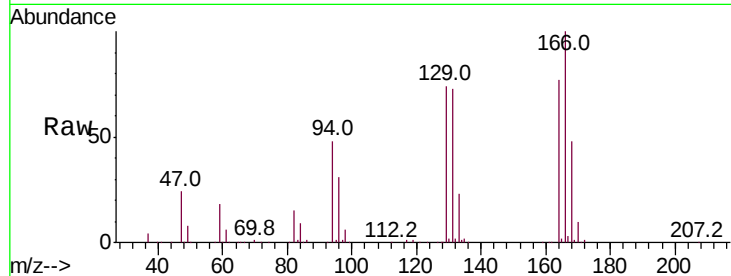
Ion Ratio Lower Upper

164 100

166 129.0 99.9 149.9

129 95.8 75.5 113.3

131 93.7 73.4 110.0

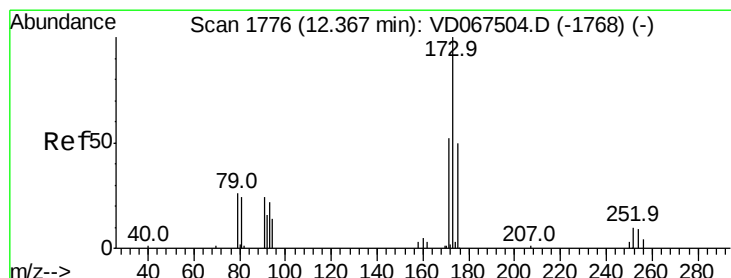
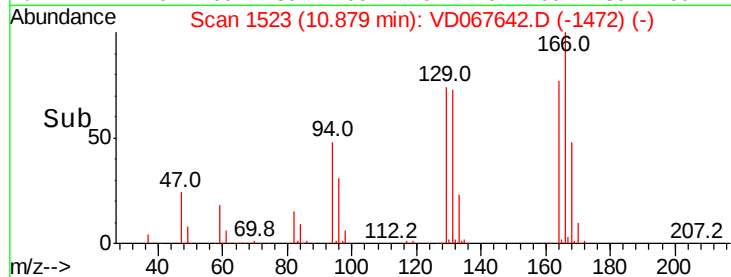
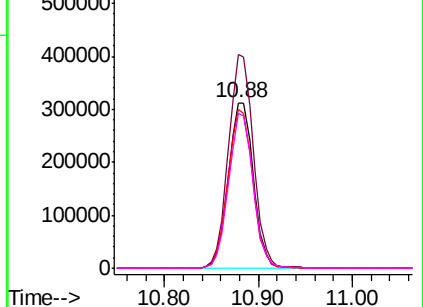


Abundance Ion 163.80 (163.50 to 164.50): V

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



#71

Bromoform

Concen: 1.053 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.27 min

Lab File: VD067642.D

Acq: 16 Nov 2020 15:51

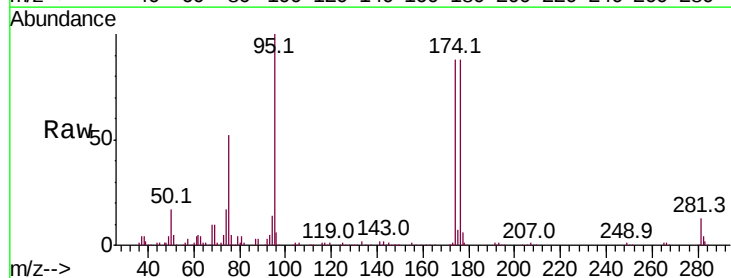
Tgt Ion:173 Resp: 1780

Ion Ratio Lower Upper

173 100

175 567.5 24.1 72.2#

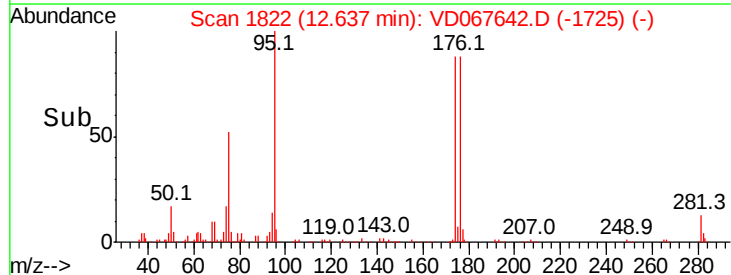
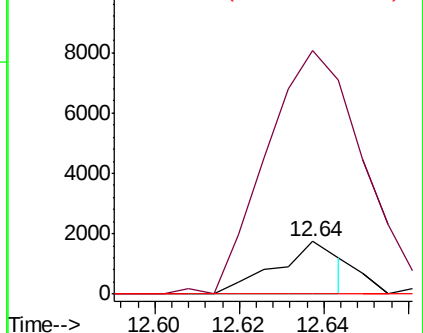
254 0.0 0.0 0.0

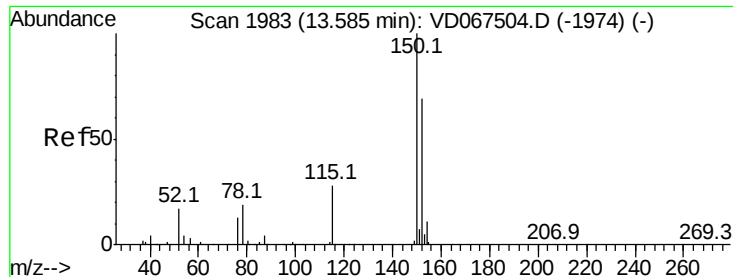


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VD067642.D

Acq: 16 Nov 2020 15:51

Instrument :

MSVOA_D

ClientSampleId :

SS-5

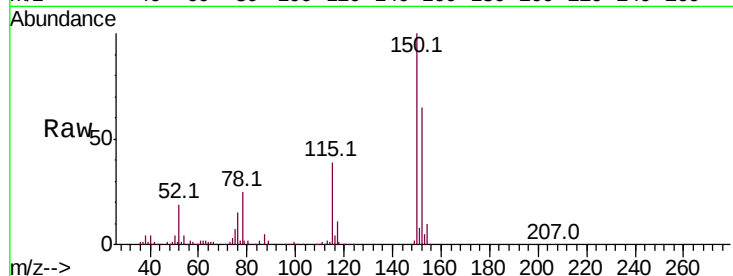
Tot Ion:152 Resp: 209188

Ion Ratio Lower Upper

152 100

115 58.6 29.3 88.0

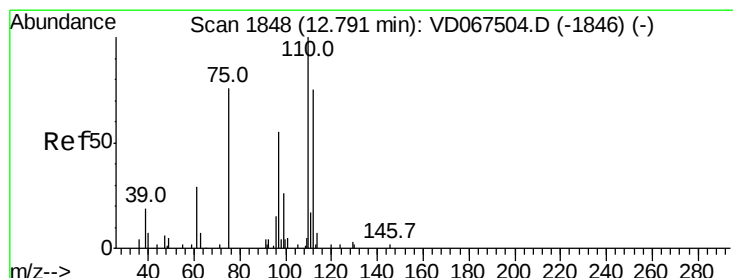
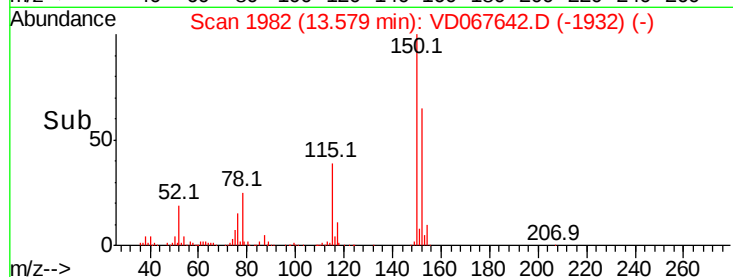
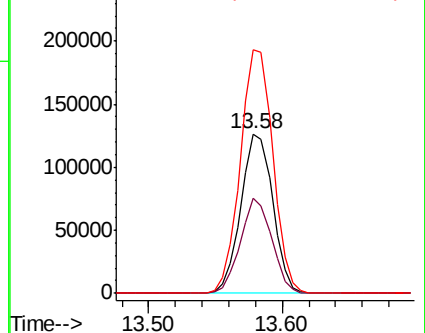
150 155.6 0.0 338.2



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: 75.717 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067642.D

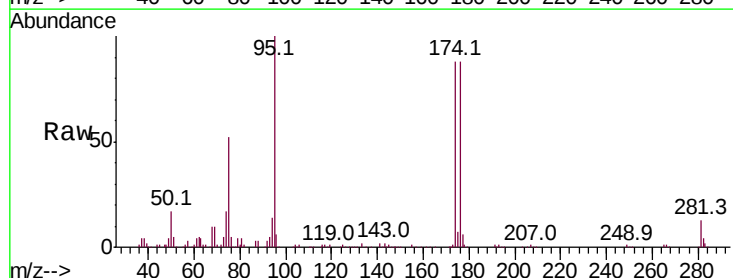
Acq: 16 Nov 2020 15:51

Tgt Ion: 75 Resp: 95550

Ion Ratio Lower Upper

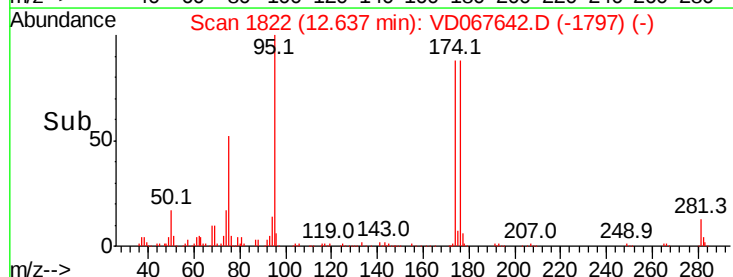
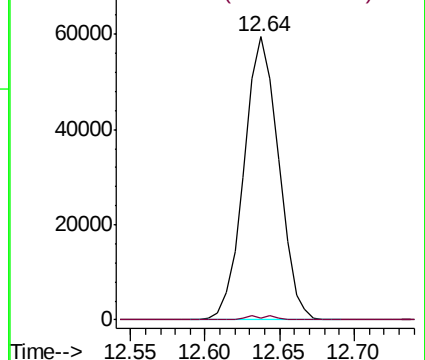
75 100

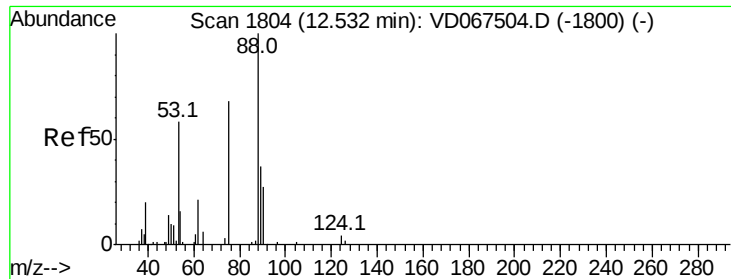
77 1.1 0.0 0.0#



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: 153.725 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067642.D

Acq: 16 Nov 2020 15:51

Instrument :

MSVOA_D

ClientSampleId :

SS-5

Tot Ion: 75 Resp: 95550

Ion Ratio Lower Upper

75 100

53 0.0 75.9 113.9#

89 0.1 44.6 67.0#

