

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD082319\
 Data File : VD063758.D
 Acq On : 23 Aug 2019 11:32
 Operator : JC/SY
 Sample : K4491-02RE
 Misc : 4.85g/5ml/MSVOA_D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TS-1-VERE

Quant Time: Aug 26 01:04:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 10 06:42:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	777347	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	8.20	114	1101969	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.36	117	789700	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.51	152	279278	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	562583	67.71	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	135.42%	
35) Dibromofluoromethane	6.91	113	618647	66.66	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	133.32%	
50) Toluene-d8	10.40	98	1281682	62.81	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	125.62%	
62) 4-Bromofluorobenzene	13.55	95	411370	44.48	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	88.96%	

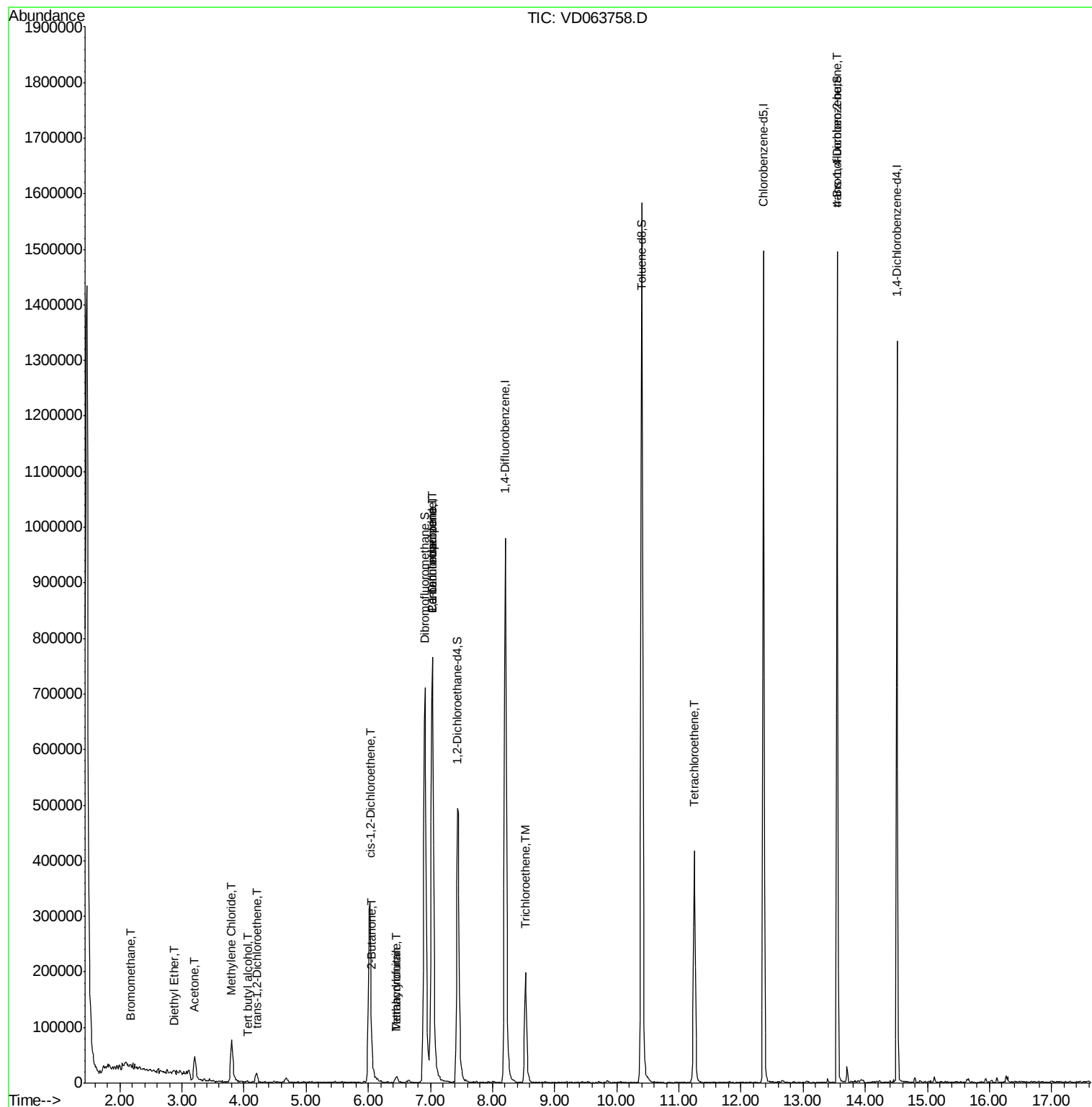
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.17	94	4159	1.208	ug/l #	44
8) Diethyl Ether	2.86	74	2954	1.462	ug/l	90
11) Tert butyl alcohol	4.06	59	2830	7.824	ug/l #	71
16) Acetone	3.20	43	84087	49.782	ug/l #	90
20) Methylene Chloride	3.80	84	47044	6.441	ug/l #	84
21) trans-1,2-Dichloroethene	4.21	96	8515	1.288	ug/l #	74
25) 2-Butanone	6.06	43	10773	6.458	ug/l #	51
27) cis-1,2-Dichloroethene	6.03	96	206292	28.525	ug/l	84
29) Tetrahydrofuran	6.45	42	9097	11.703	ug/l	95
36) 1,1-Dichloropropene	7.02	75	55548	5.702	ug/l #	52
38) Carbon Tetrachloride	7.03	117	76933	5.240	ug/l #	16
41) Methacrylonitrile	6.45	41	7558	1.471	ug/l #	76
44) Trichloroethene	8.54	130	88785	10.835	ug/l	75
64) Tetrachloroethene	11.25	164	113765	18.661	ug/l	94
81) trans-1,4-Dichloro-2-buten	13.55	75	175149	203.314	ug/l #	1

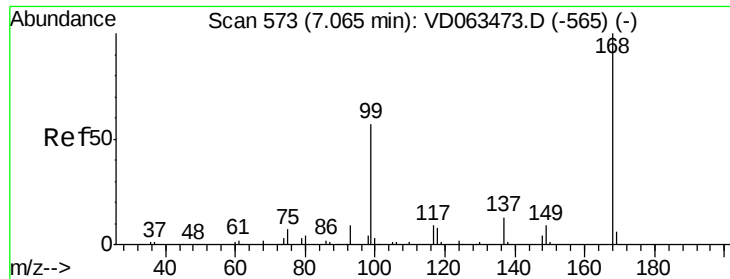
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Aug 10 06:42:47 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.03 min

Lab File: VD063758.D

Acq: 23 Aug 2019 11:32

Instrument :

MSVOA_D

ClientSampleId :

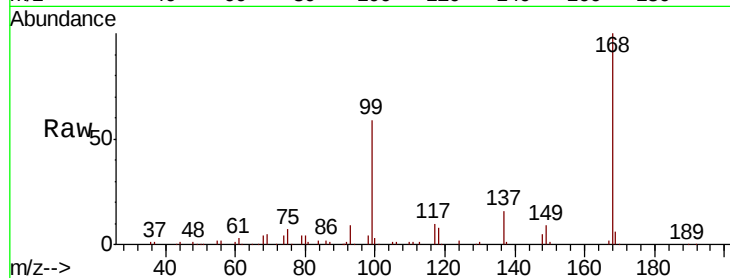
TS-1-VERE

Tgt Ion:168 Resp: 777347

Ion Ratio Lower Upper

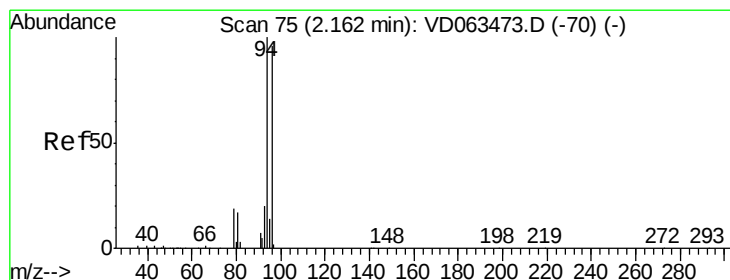
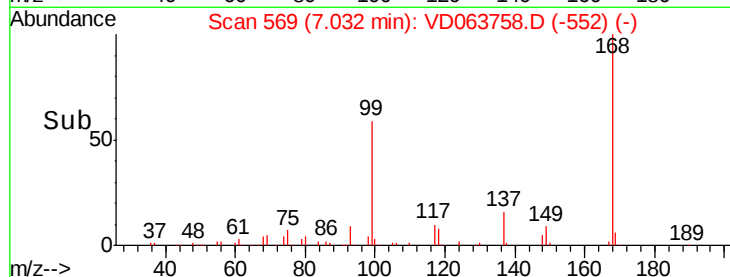
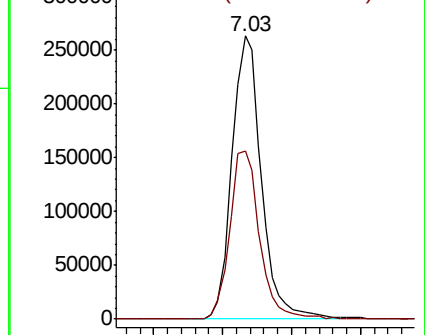
168 100

99 59.3 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 1.208 ug/l

RT: 2.17 min Scan# 75

Delta R.T. 0.01 min

Lab File: VD063758.D

Acq: 23 Aug 2019 11:32

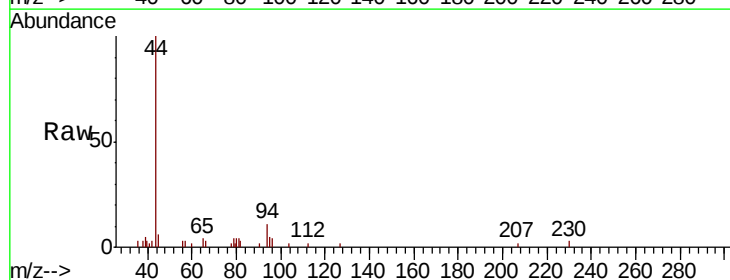
Tgt Ion: 94 Resp: 4159

Ion Ratio Lower Upper

94 100

96 38.9 76.5 114.7#

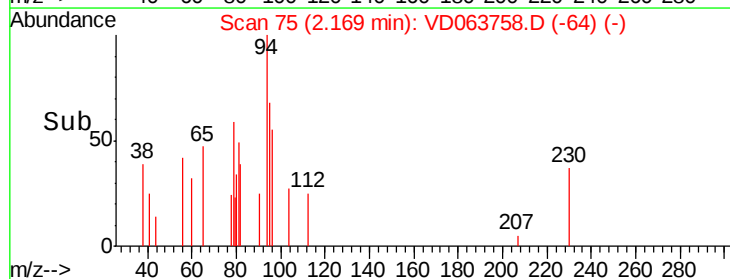
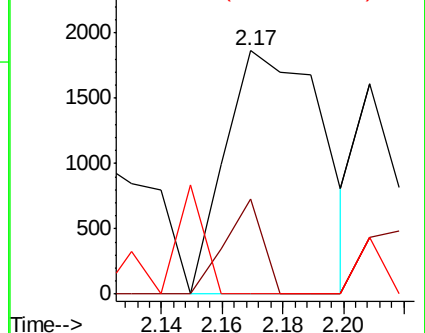
93 0.0 15.8 23.8#

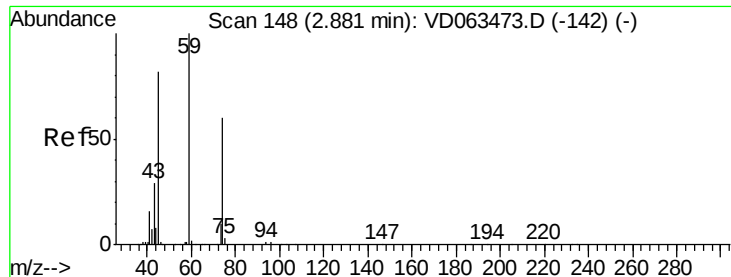


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#8

Diethyl Ether

Concen: 1.462 ug/l

RT: 2.86 min Scan# 145

Delta R.T. -0.02 min

Lab File: VD063758.D

Acq: 23 Aug 2019 11:32

Instrument :

MSVOA_D

ClientSampleId :

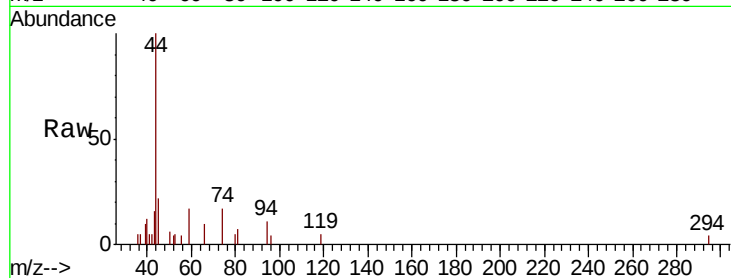
TS-1-VERE

Tgt Ion: 74 Resp: 2954

Ion Ratio Lower Upper

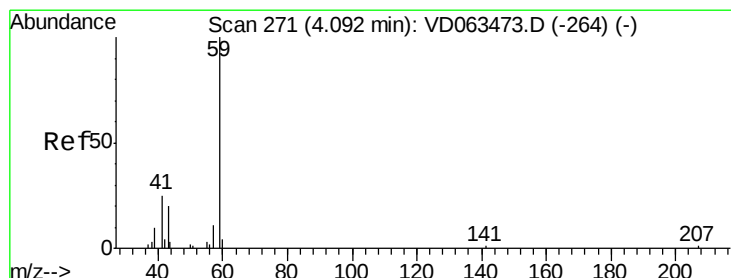
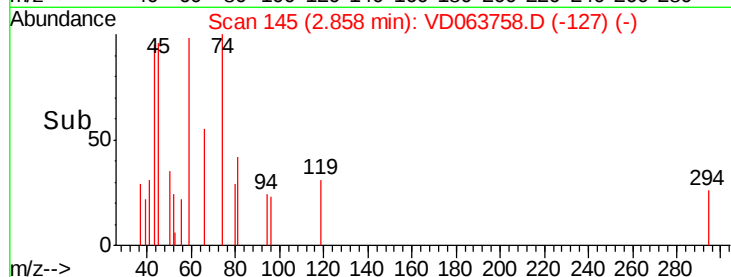
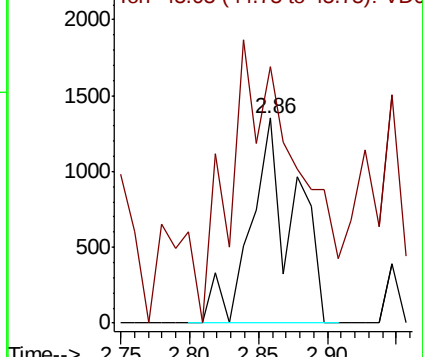
74 100

45 125.0 68.5 205.5



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#11

Tert butyl alcohol

Concen: 7.824 ug/l

RT: 4.06 min Scan# 267

Delta R.T. -0.03 min

Lab File: VD063758.D

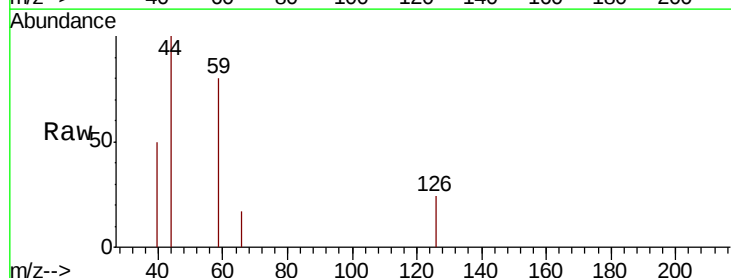
Acq: 23 Aug 2019 11:32

Tgt Ion: 59 Resp: 2830

Ion Ratio Lower Upper

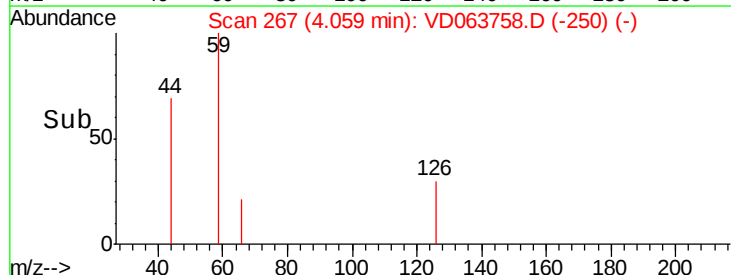
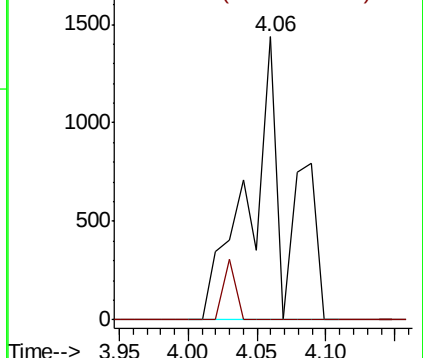
59 100

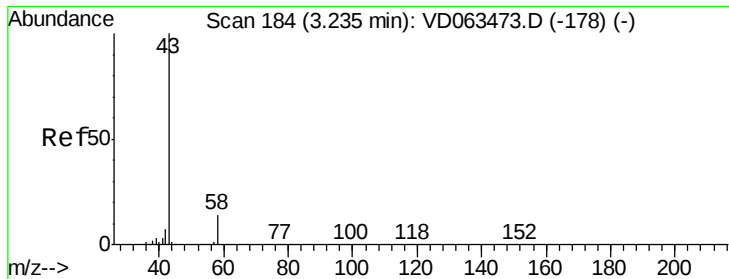
57 0.0 8.7 13.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 49.782 ug/l

RT: 3.20 min Scan# 180

Delta R.T. -0.03 min

Lab File: VD063758.D

Acq: 23 Aug 2019 11:32

Instrument :

MSVOA_D

ClientSampleId :

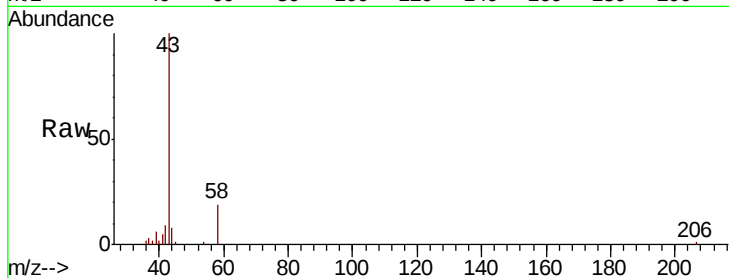
TS-1-VERE

Tgt Ion: 43 Resp: 84087

Ion Ratio Lower Upper

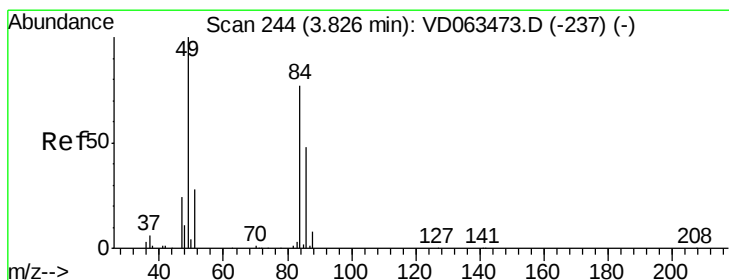
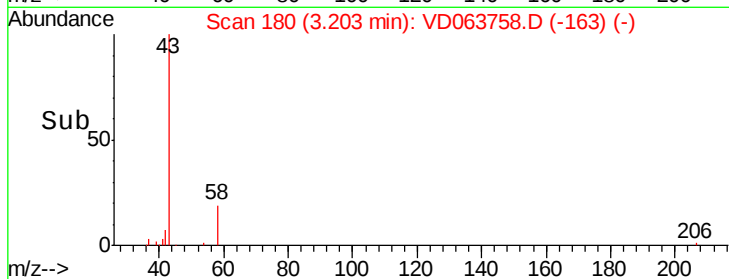
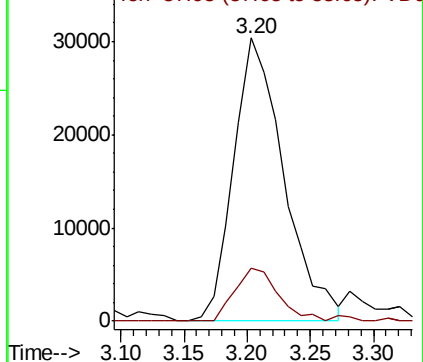
43 100

58 18.6 11.4 17.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 6.441 ug/l

RT: 3.80 min Scan# 241

Delta R.T. -0.02 min

Lab File: VD063758.D

Acq: 23 Aug 2019 11:32

Tgt Ion: 84 Resp: 47044

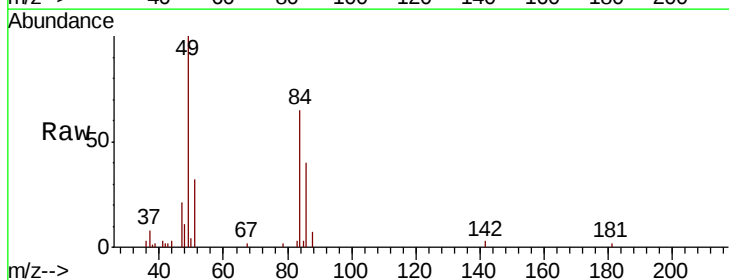
Ion Ratio Lower Upper

84 100

49 153.8 103.4 155.2

51 49.5 28.5 42.7#

86 62.2 49.4 74.2

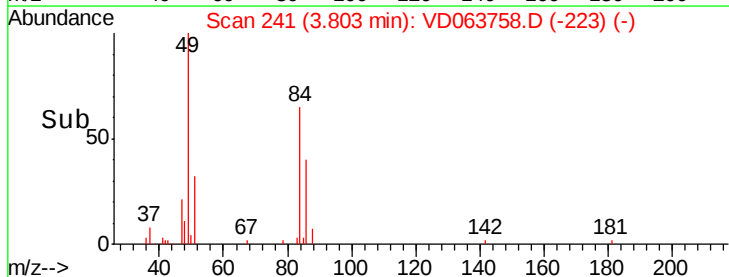
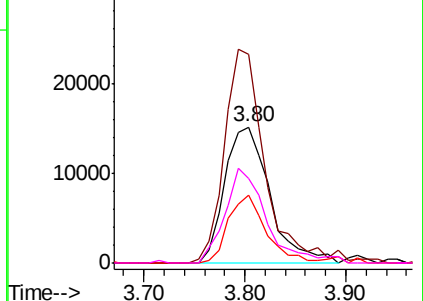


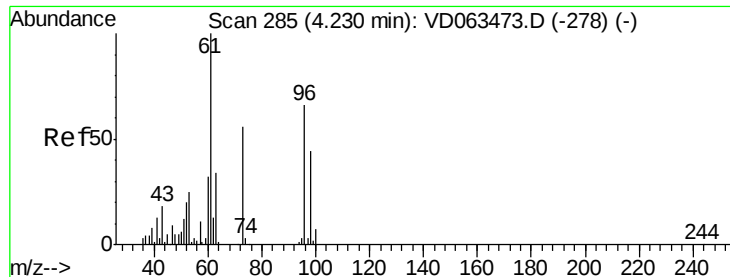
Abundance Ion 83.95 (83.65 to 84.65): VDC

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





#21

trans-1,2-Dichloroethene

Concen: 1.288 ug/l

RT: 4.21 min Scan# 282

Delta R.T. -0.02 min

Lab File: VD063758.D

Acq: 23 Aug 2019 11:32

Instrument :

MSVOA_D

ClientSampleId :

TS-1-VERE

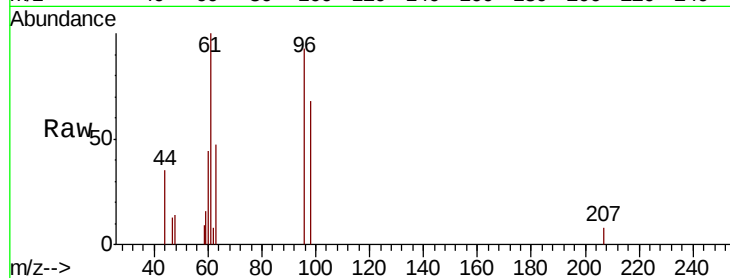
Tgt Ion: 96 Resp: 8515

Ion Ratio Lower Upper

96 100

61 108.0 121.7 182.5#

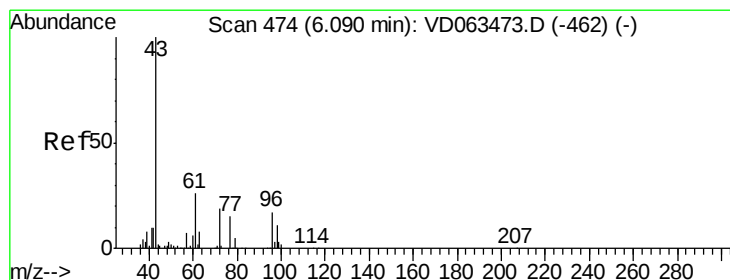
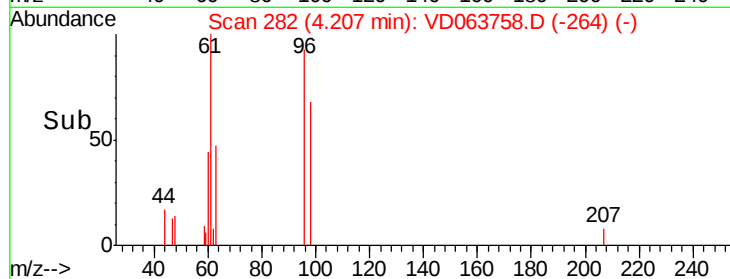
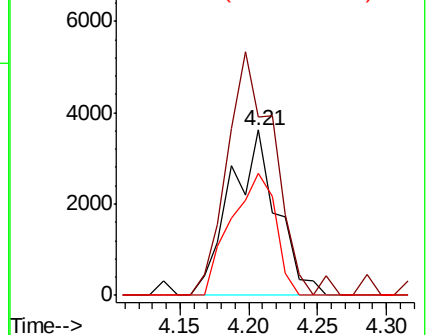
98 74.0 54.2 81.2



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#25

2-Butanone

Concen: 6.458 ug/l

RT: 6.06 min Scan# 470

Delta R.T. -0.03 min

Lab File: VD063758.D

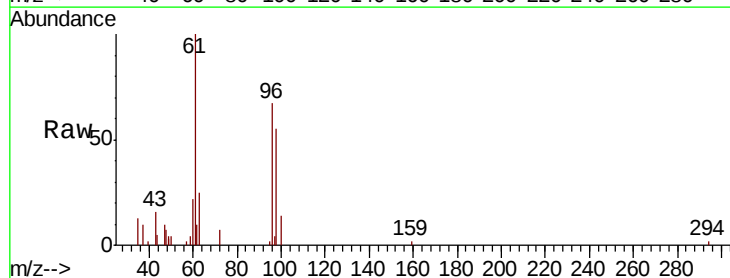
Acq: 23 Aug 2019 11:32

Tgt Ion: 43 Resp: 10773

Ion Ratio Lower Upper

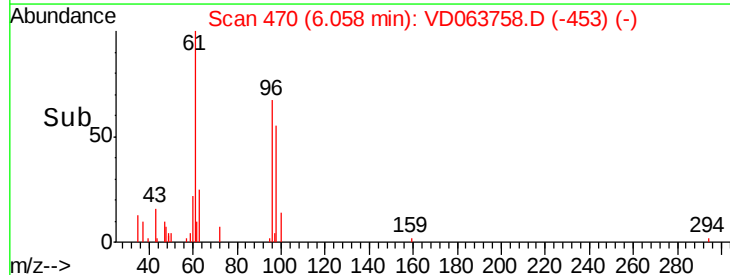
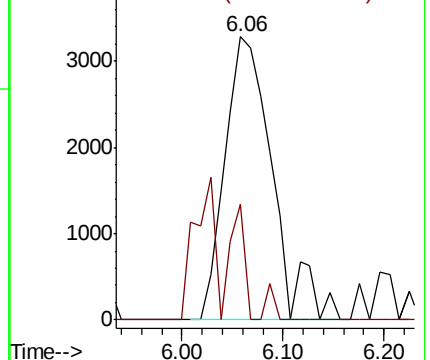
43 100

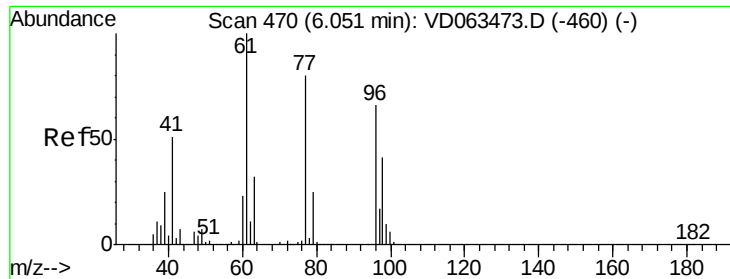
72 41.0 15.1 22.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



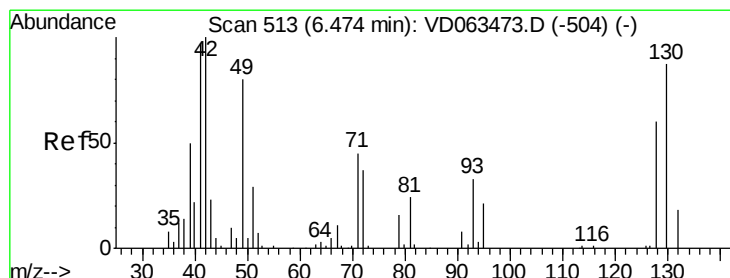
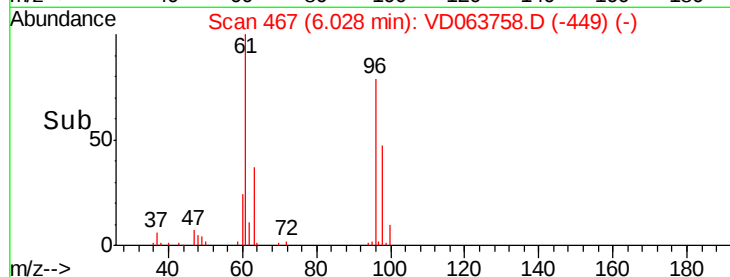
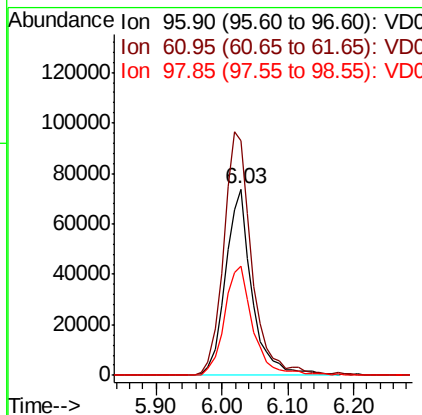
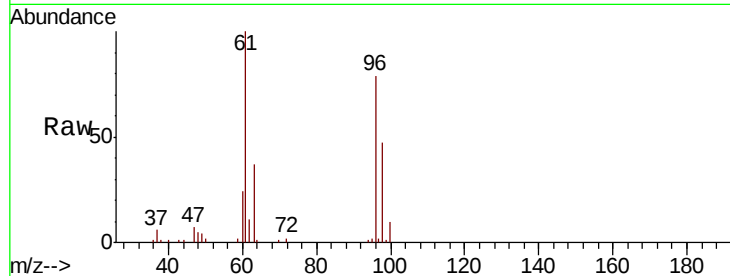


#27

cis-1,2-Dichloroethene
 Concen: 28.525 ug/l
 RT: 6.03 min Scan# 467
 Delta R.T. -0.02 min
 Lab File: VD063758.D
 Acq: 23 Aug 2019 11:32

Instrument :
 MSVOA_D
 ClientSampleId :
 TS-1-VERE

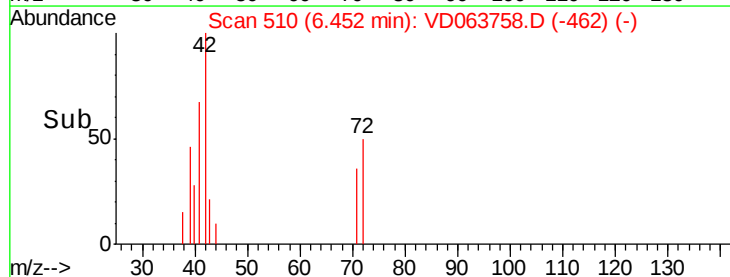
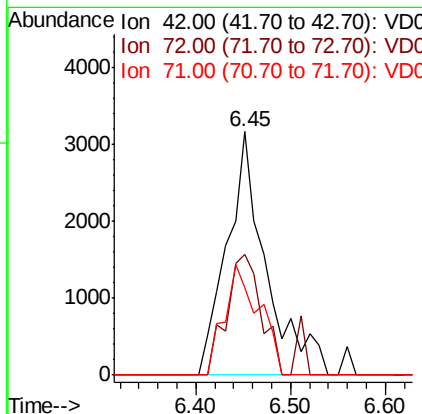
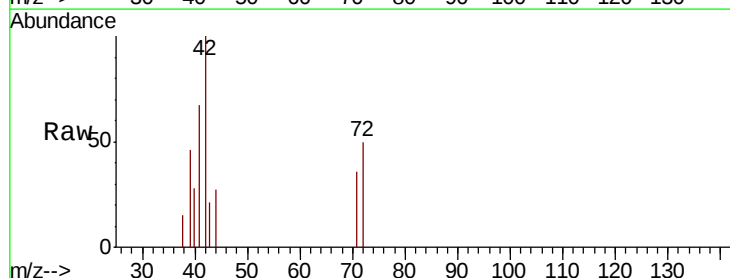
Tgt Ion: 96 Resp: 206292
 Ion Ratio Lower Upper
 96 100
 61 126.3 0.0 304.0
 98 58.9 0.0 124.8

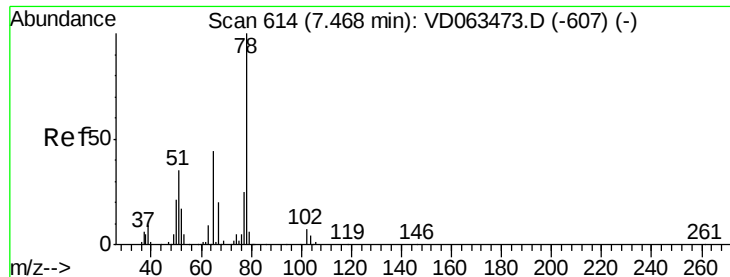


#29

Tetrahydrofuran
 Concen: 11.703 ug/l
 RT: 6.45 min Scan# 510
 Delta R.T. -0.02 min
 Lab File: VD063758.D
 Acq: 23 Aug 2019 11:32

Tgt Ion: 42 Resp: 9097
 Ion Ratio Lower Upper
 42 100
 72 43.8 31.5 47.3
 71 40.3 33.8 50.8

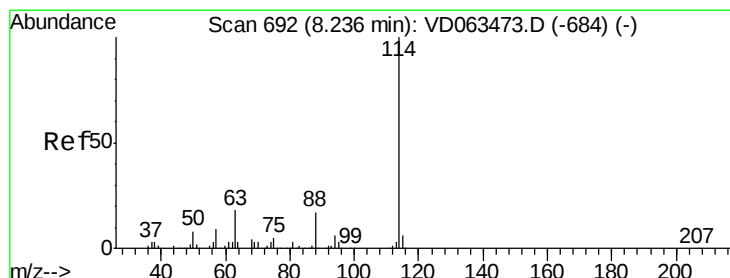
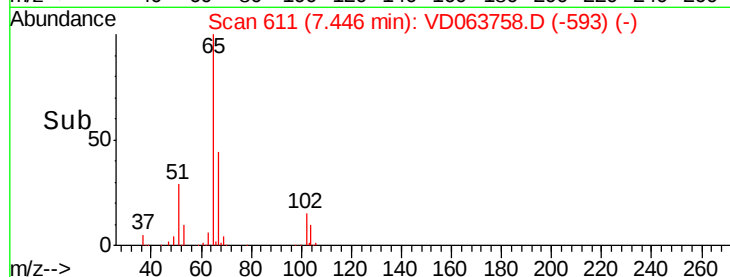
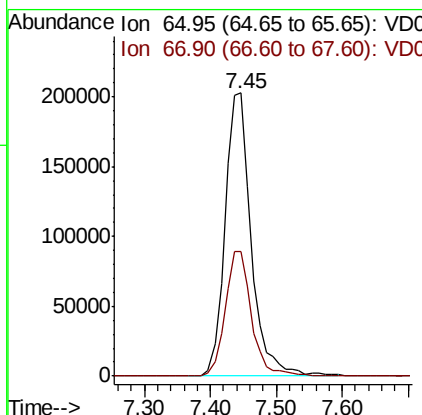
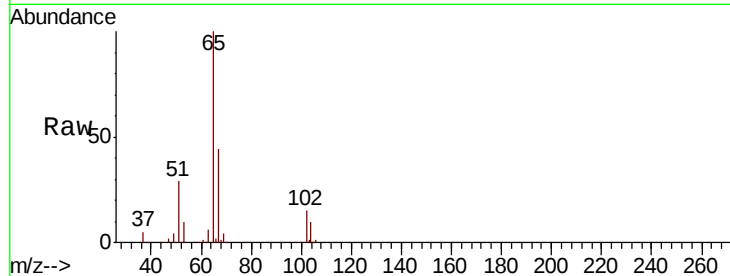




#33
 1,2-Dichloroethane-d4
 Concen: 67.706 ug/l
 RT: 7.45 min Scan# 611
 Delta R.T. -0.02 min
 Lab File: VD063758.D
 Acq: 23 Aug 2019 11:32

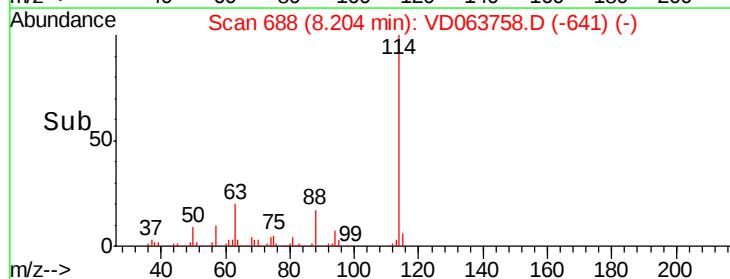
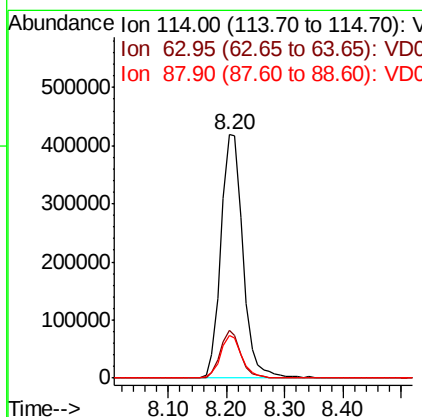
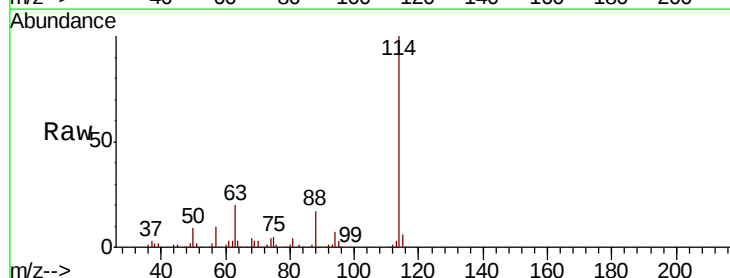
Instrument :
 MSVOA_D
 ClientSampleId :
 TS-1-VERE

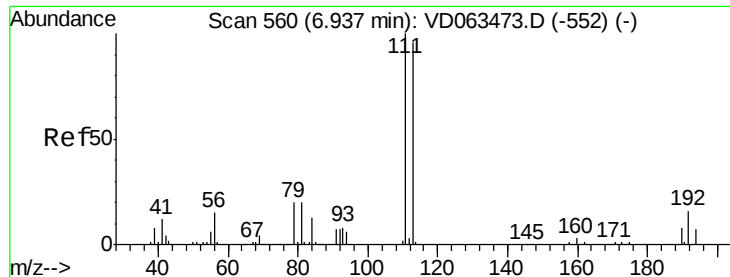
Tgt Ion: 65 Resp: 562583
 Ion Ratio Lower Upper
 65 100
 67 44.1 0.0 89.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.20 min Scan# 688
 Delta R.T. -0.03 min
 Lab File: VD063758.D
 Acq: 23 Aug 2019 11:32

Tgt Ion: 114 Resp: 1101969
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 36.2
 88 17.3 0.0 35.0





#35

Dibromofluoromethane

Concen: 66.658 ug/l

RT: 6.91 min Scan# 557

Delta R.T. -0.02 min

Lab File: VD063758.D

Acq: 23 Aug 2019 11:32

Instrument :

MSVOA_D

ClientSampleId :

TS-1-VERE

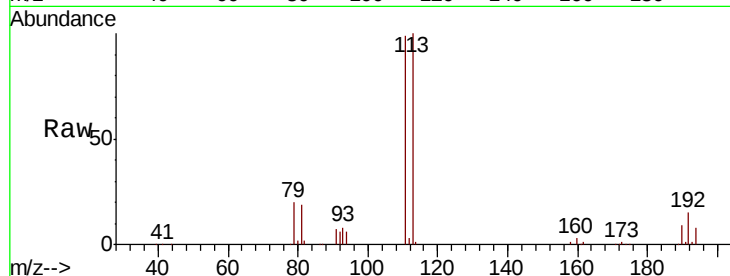
Tgt Ion:113 Resp: 618647

Ion Ratio Lower Upper

113 100

111 98.7 83.1 124.7

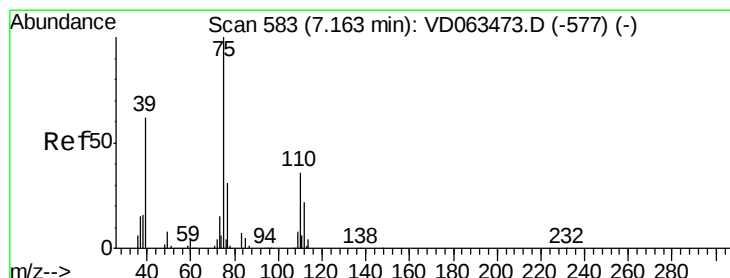
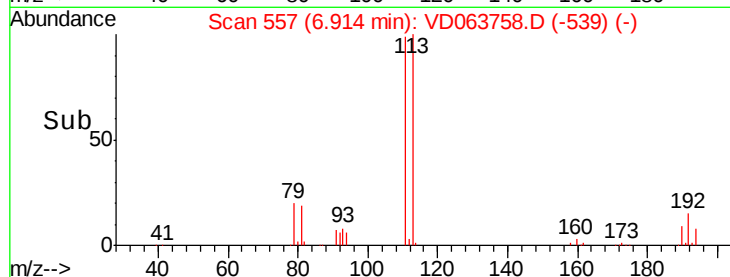
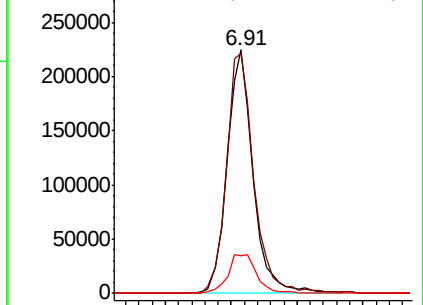
192 15.3 13.1 19.7



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 5.702 ug/l

RT: 7.02 min Scan# 568

Delta R.T. -0.14 min

Lab File: VD063758.D

Acq: 23 Aug 2019 11:32

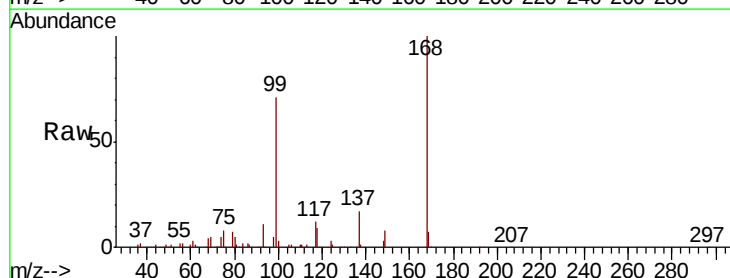
Tgt Ion: 75 Resp: 55548

Ion Ratio Lower Upper

75 100

110 10.8 17.6 52.8#

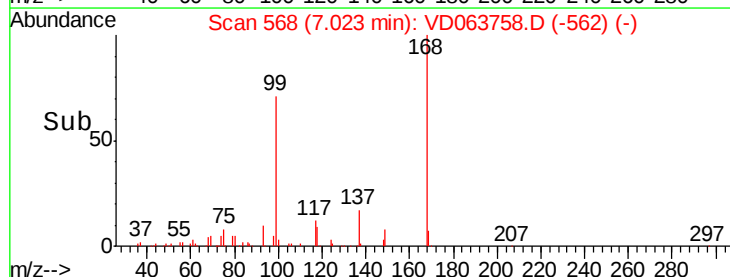
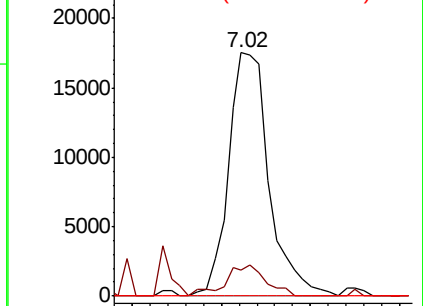
77 0.0 24.3 36.5#

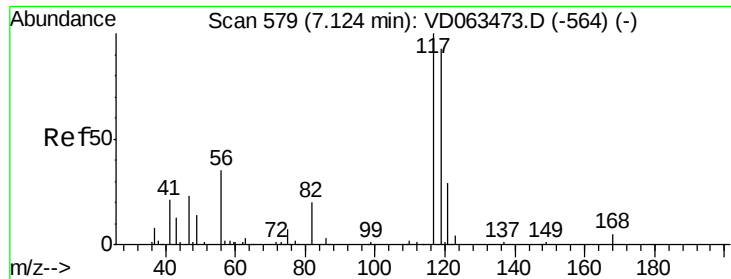


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#38

Carbon Tetrachloride

Concen: 5.240 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.09 min

Lab File: VD063758.D

Acq: 23 Aug 2019 11:32

Instrument :

MSVOA_D

ClientSampleId :

TS-1-VERE

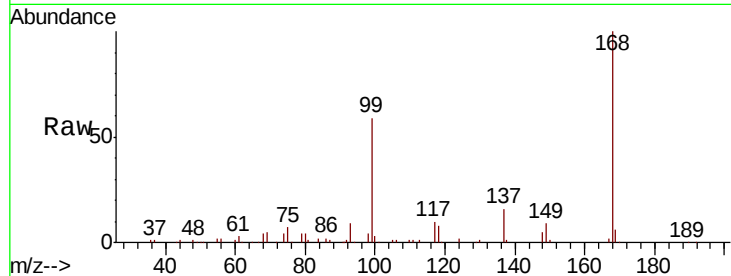
Tgt Ion:117 Resp: 76933

Ion Ratio Lower Upper

117 100

119 3.1 74.2 111.2#

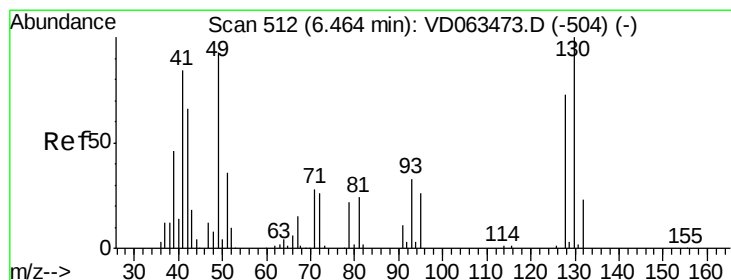
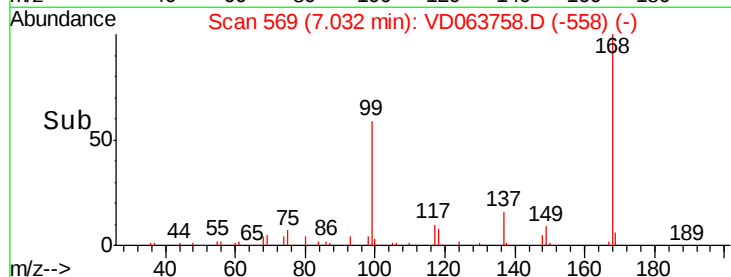
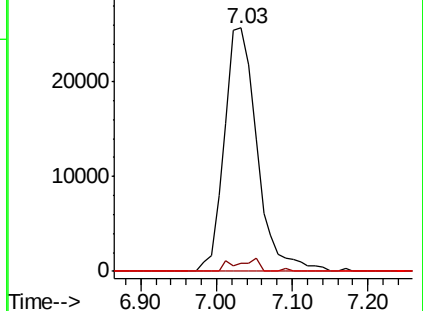
121 0.0 23.1 34.7#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#41

Methacrylonitrile

Concen: 1.471 ug/l

RT: 6.45 min Scan# 510

Delta R.T. -0.01 min

Lab File: VD063758.D

Acq: 23 Aug 2019 11:32

Tgt Ion: 41 Resp: 7558

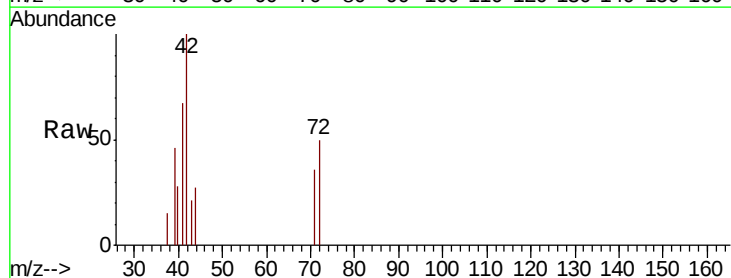
Ion Ratio Lower Upper

41 100

39 68.0 44.6 66.8#

67 0.0 14.4 21.6#

52 0.0 9.3 13.9#

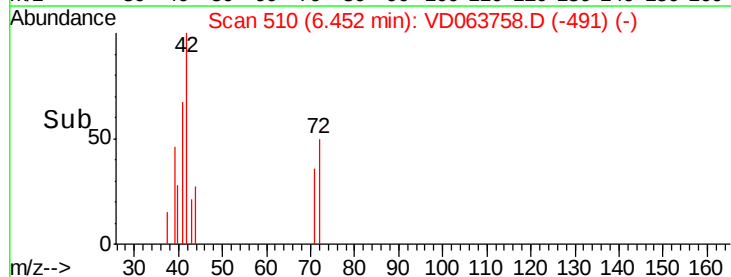
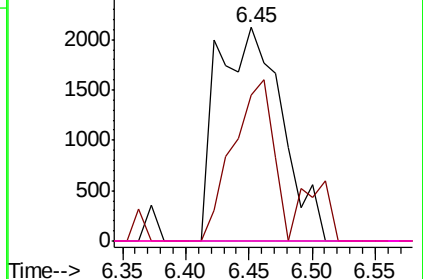


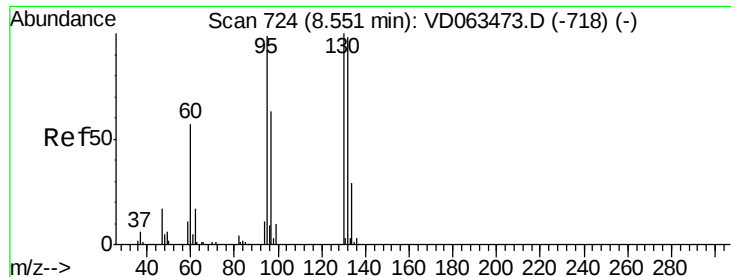
Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC





#44

Trichloroethene

Concen: 10.835 ug/l

RT: 8.54 min Scan# 722

Delta R.T. -0.01 min

Lab File: VD063758.D

Acq: 23 Aug 2019 11:32

Instrument :

MSVOA_D

ClientSampleId :

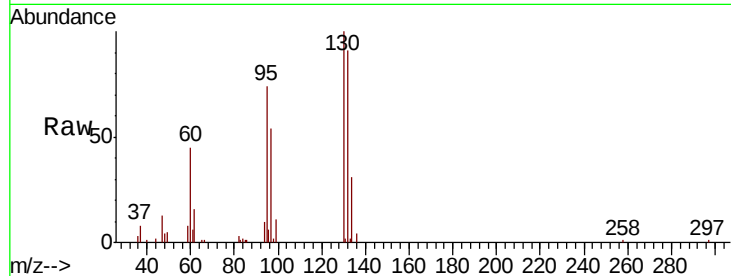
TS-1-VERE

Tgt Ion:130 Resp: 88785

Ion Ratio Lower Upper

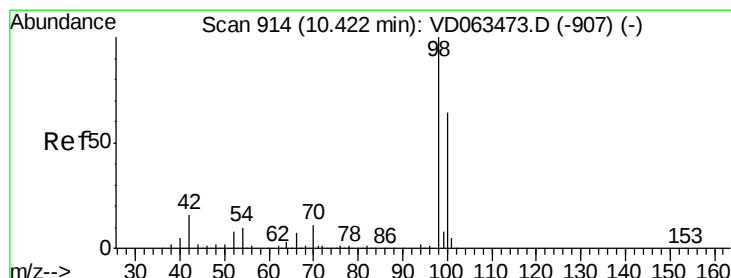
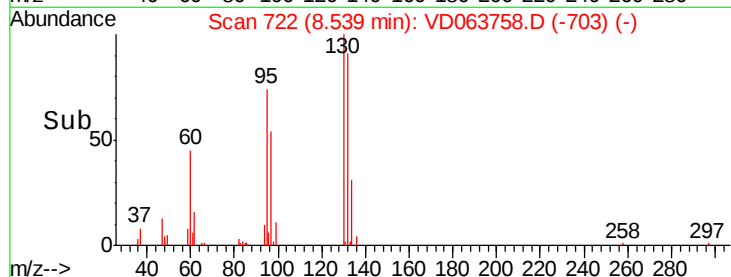
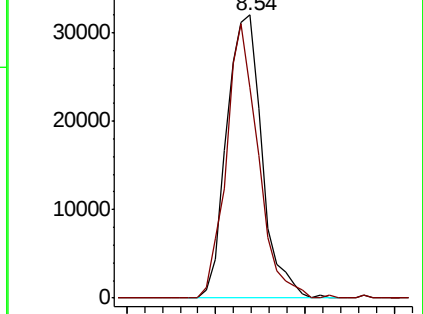
130 100

95 74.5 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC



#50

Toluene-d8

Concen: 62.814 ug/l

RT: 10.40 min Scan# 911

Delta R.T. -0.02 min

Lab File: VD063758.D

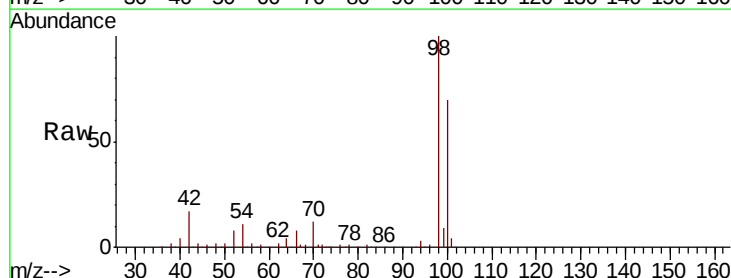
Acq: 23 Aug 2019 11:32

Tgt Ion: 98 Resp: 1281682

Ion Ratio Lower Upper

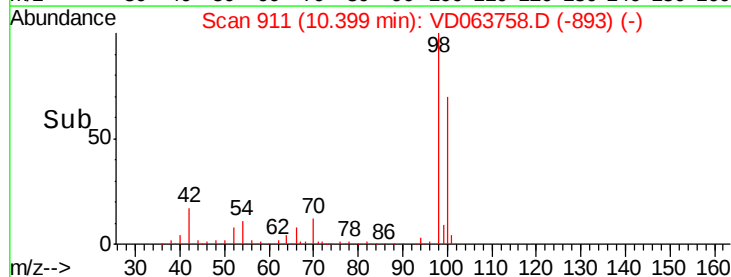
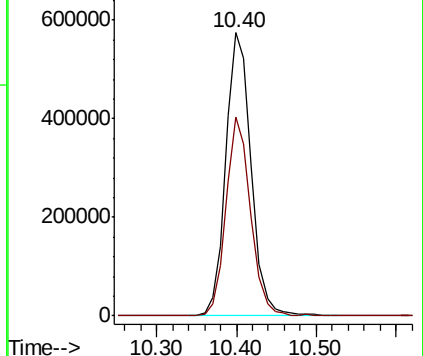
98 100

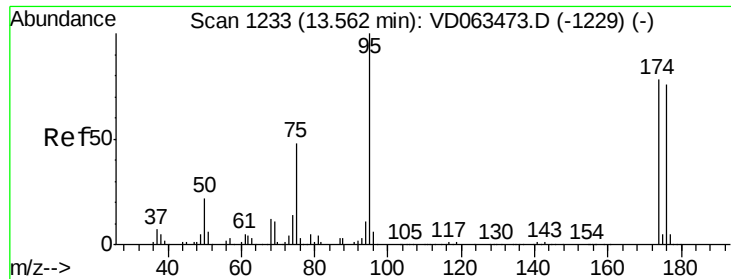
100 70.2 51.7 77.5



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#62

4-Bromofluorobenzene

Concen: 44.481 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VD063758.D

Acq: 23 Aug 2019 11:32

Instrument :

MSVOA_D

ClientSampleId :

TS-1-VERE

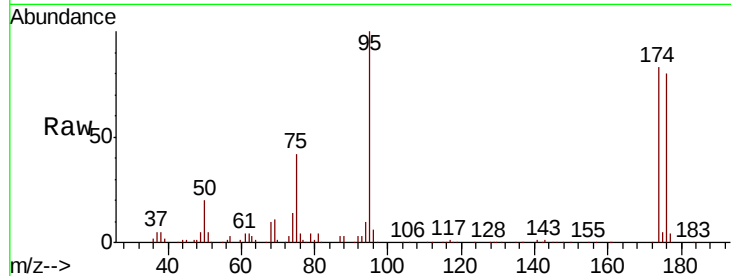
Tgt Ion: 95 Resp: 411370

Ion Ratio Lower Upper

95 100

174 82.6 0.0 155.4

176 79.9 0.0 152.4



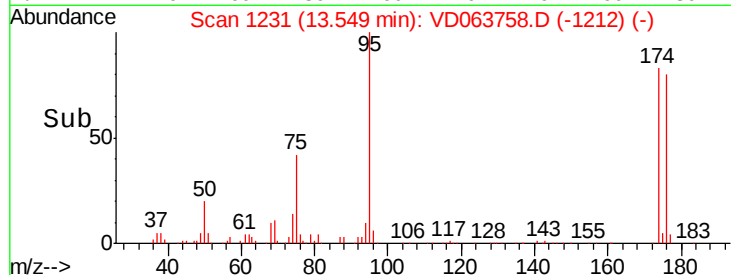
Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

Time-->

13.55



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.36 min Scan# 1110

Delta R.T. -0.02 min

Lab File: VD063758.D

Acq: 23 Aug 2019 11:32

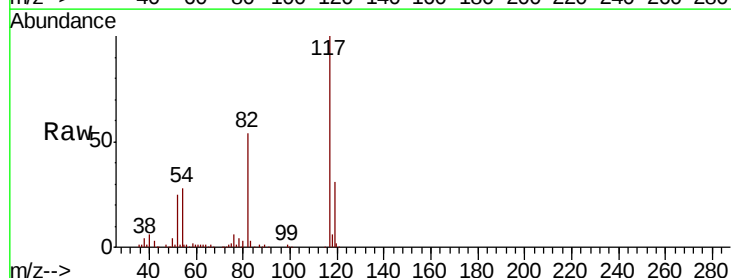
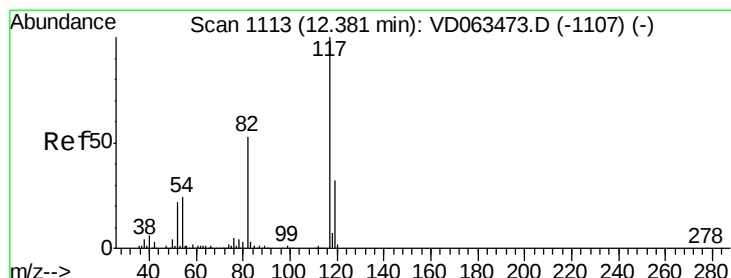
Tgt Ion: 117 Resp: 789700

Ion Ratio Lower Upper

117 100

82 54.3 42.0 63.0

119 30.7 25.4 38.0



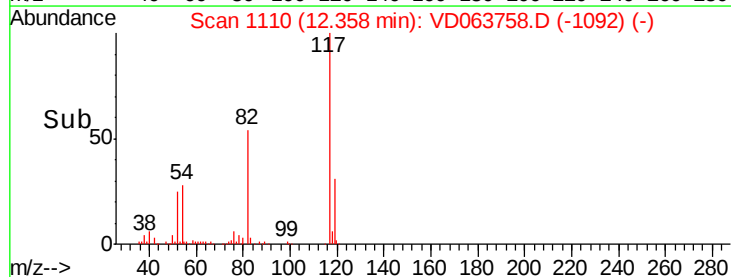
Abundance Ion 116.95 (116.65 to 117.65): V

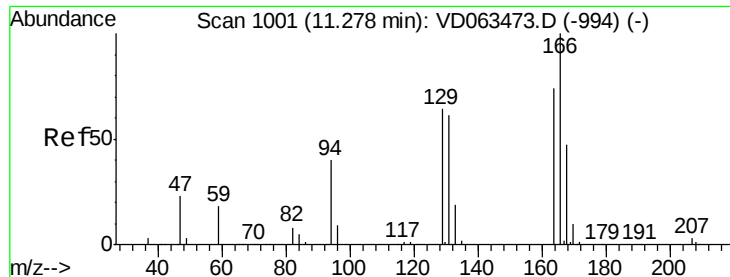
Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

Time-->

12.36





#64

Tetrachloroethene

Concen: 18.661 ug/l

RT: 11.25 min Scan# 997

Delta R.T. -0.03 min

Lab File: VD063758.D

Acq: 23 Aug 2019 11:32

Instrument :

MSVOA_D

ClientSampleId :

TS-1-VERE

Tgt Ion:164 Resp: 113765

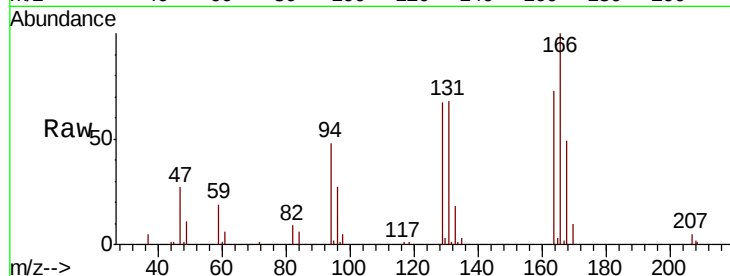
Ion Ratio Lower Upper

164 100

166 137.5 108.6 163.0

129 92.6 69.0 103.6

131 93.7 66.6 99.8

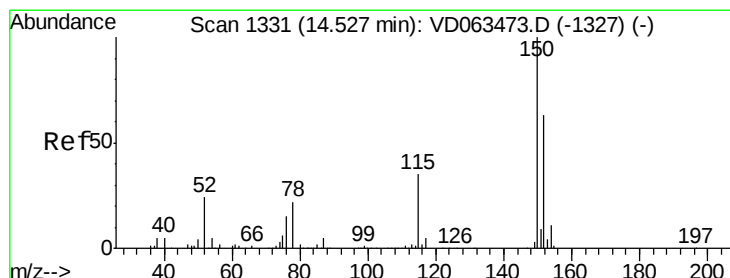
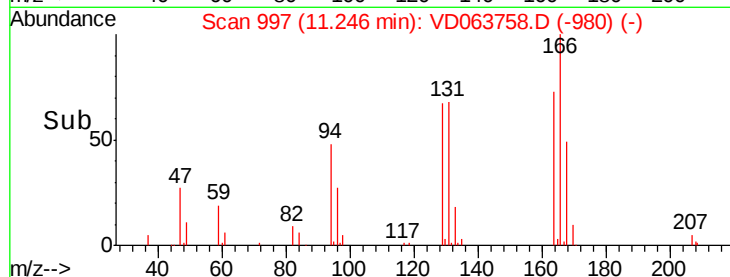
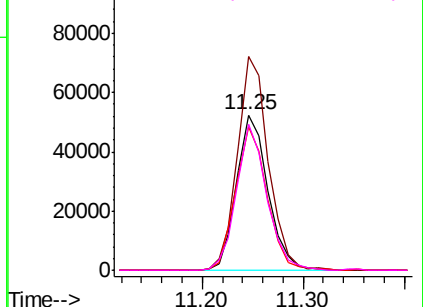


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.85 (165.55 to 166.55): 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: 14.51 min Scan# 1329

Delta R.T. -0.01 min

Lab File: VD063758.D

Acq: 23 Aug 2019 11:32

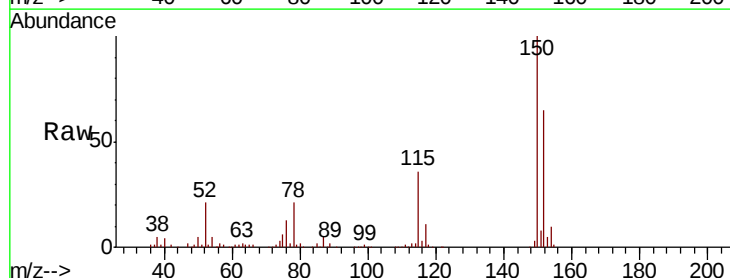
Tgt Ion:152 Resp: 279278

Ion Ratio Lower Upper

152 100

115 55.2 30.9 92.7

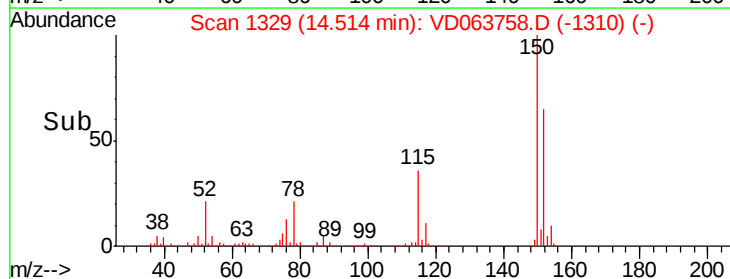
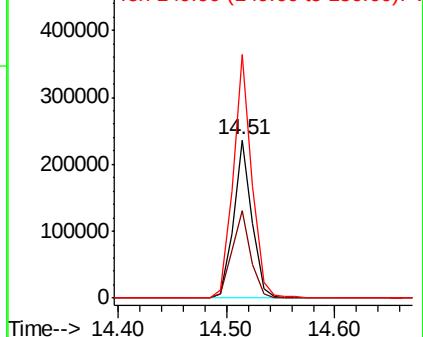
150 154.2 0.0 318.6

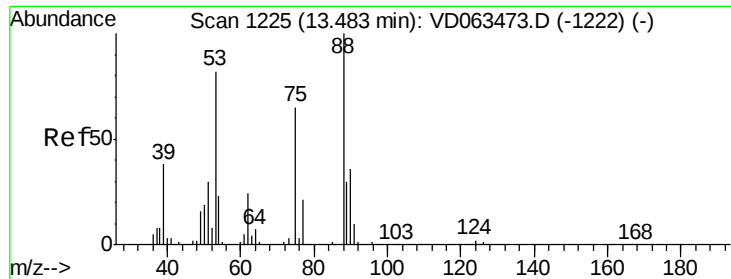


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 203.314 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. 0.07 min

Lab File: VD063758.D

Acq: 23 Aug 2019 11:32

Instrument :

MSVOA_D

ClientSampleId :

TS-1-VERE

Tgt Ion: 75 Resp: 175149

Ion Ratio Lower Upper

75 100

53 0.0 101.0 151.4#

89 0.0 37.0 55.6#

