

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052119\
 Data File : VD062491.D
 Acq On : 21 May 2019 19:47
 Operator : VA/AP
 Sample : K2971-16
 Misc : 5.74g/5ml/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: May 22 01:46:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 03:32:39 2019
 Response via : Initial Calibration

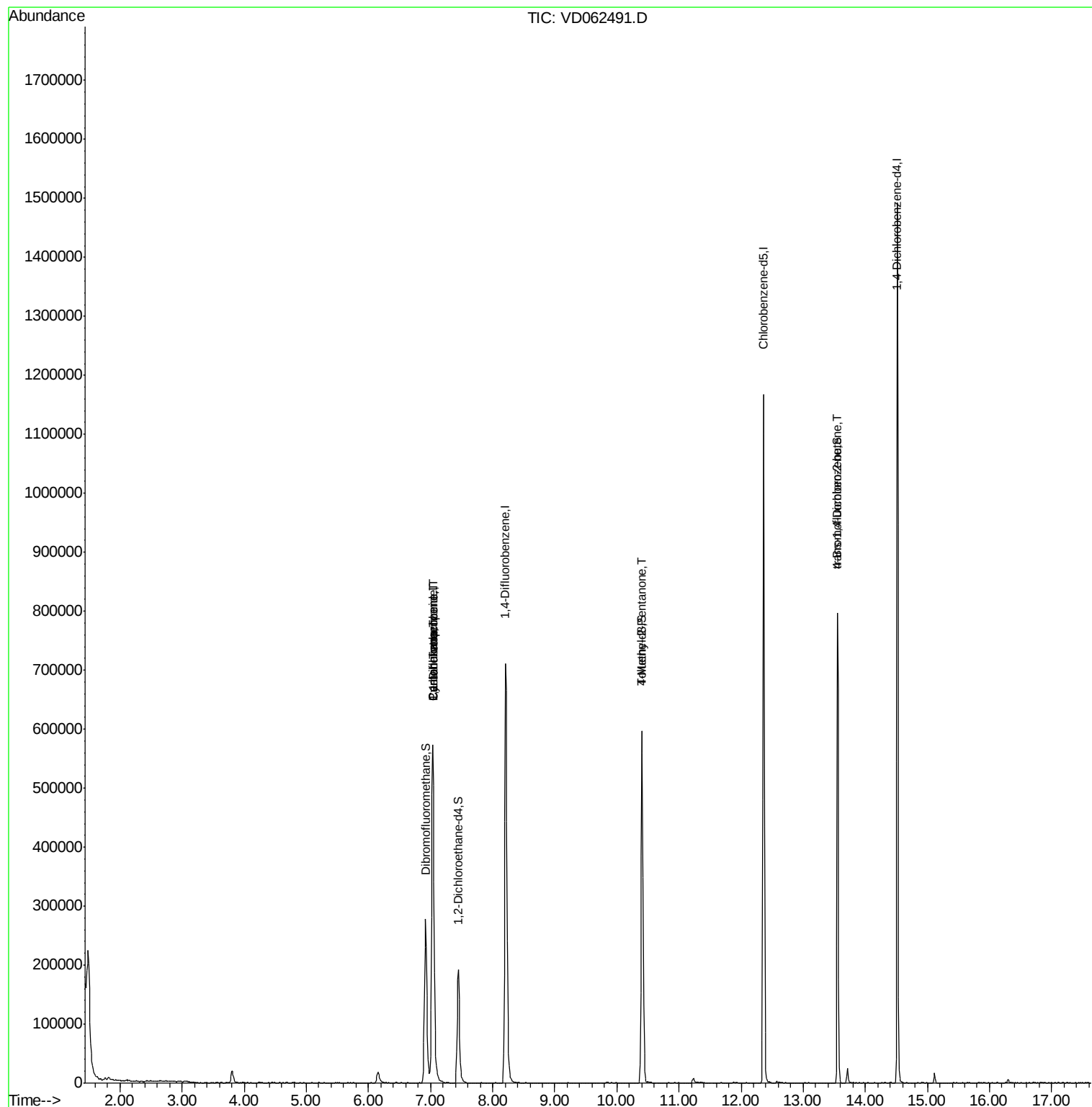
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	550216	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	8.21	114	765350	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.37	117	661624	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	323305	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.45	65	217347	36.90	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	73.80%	
35) Dibromofluoromethane	6.92	113	242823	35.17	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	70.34%	
50) Toluene-d8	10.40	98	508620	33.66	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	67.32%	
62) 4-Bromofluorobenzene	13.55	95	232356	35.16	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	70.32%	
Target Compounds						
2) Dichlorodifluoromethane	1.56	85	187	Below Cal	#	42
20) Methylene Chloride	3.80	84	13439	Below Cal		96
31) Cyclohexane	7.03	56	10676	1.920	ug/l #	27
36) 1,1-Dichloropropene	7.04	75	45711	6.247	ug/l #	46
38) Carbon Tetrachloride	7.04	117	55761	5.127	ug/l #	18
51) 4-Methyl-2-Pentanone	10.40	43	3016	1.211	ug/l #	1
81) trans-1,4-Dichloro-2-buten	13.55	75	105107	97.865	ug/l #	16

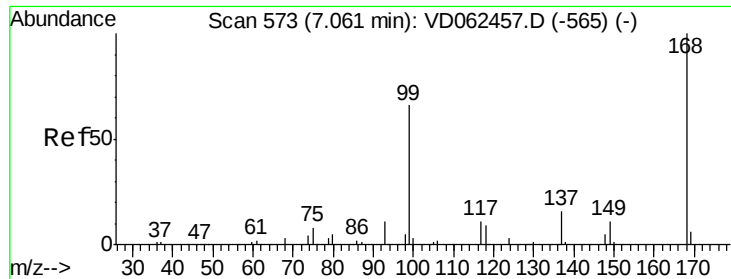
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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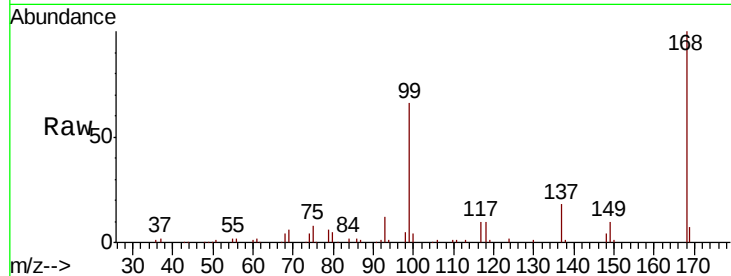




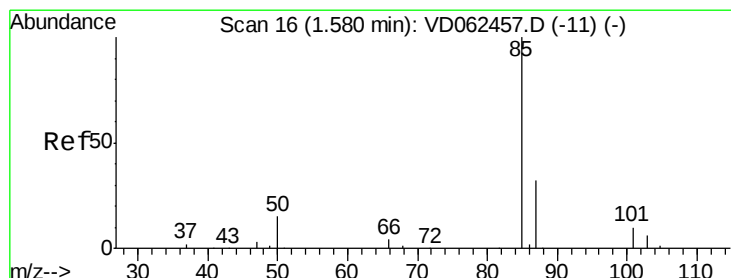
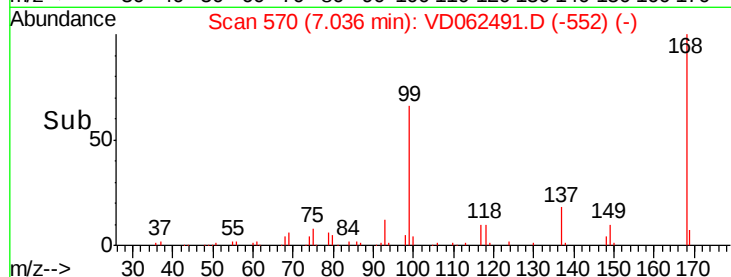
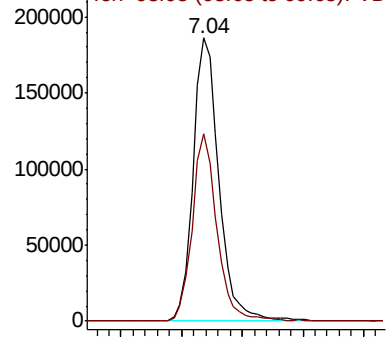
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.04 min Scan# 570
Delta R.T. -0.03 min
Lab File: VD062491.D
Acq: 21 May 2019 19:47

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 550216
Ion Ratio Lower Upper
168 100
99 66.4 46.5 69.7

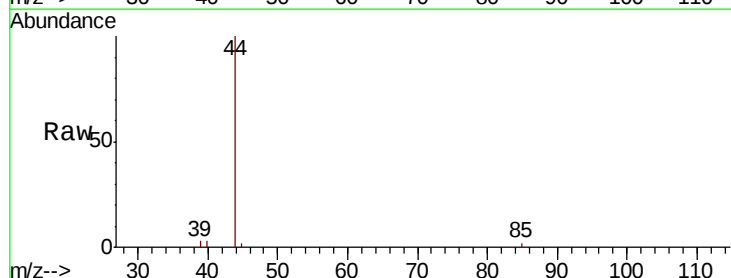


Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.95 (98.65 to 99.65): VDC

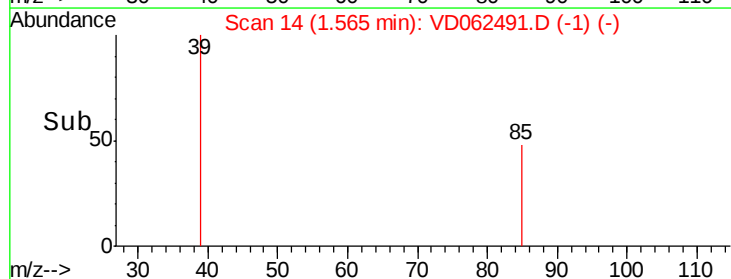
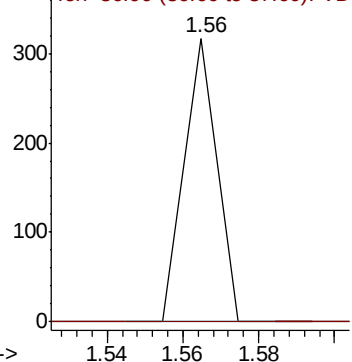


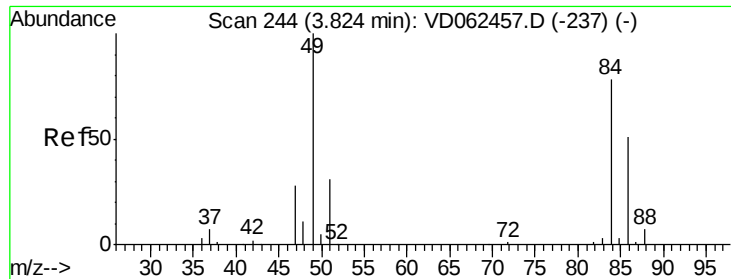
#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.56 min Scan# 14
Delta R.T. -0.01 min
Lab File: VD062491.D
Acq: 21 May 2019 19:47

Tgt Ion: 85 Resp: 187
Ion Ratio Lower Upper
85 100
87 0.0 16.2 48.6#



Abundance Ion 84.95 (84.65 to 85.65): VDC
Ion 86.90 (86.60 to 87.60): VDC

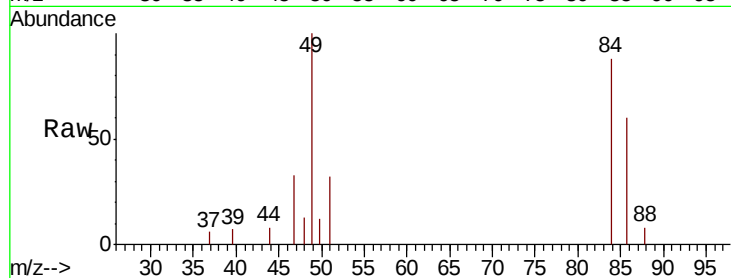




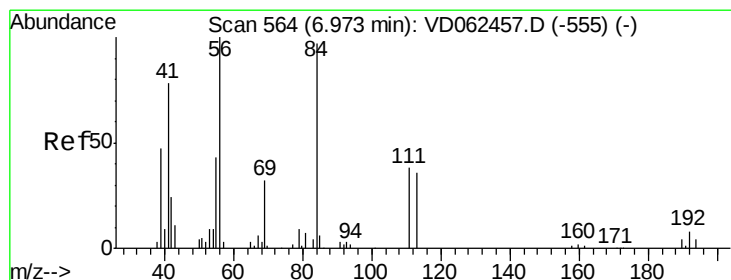
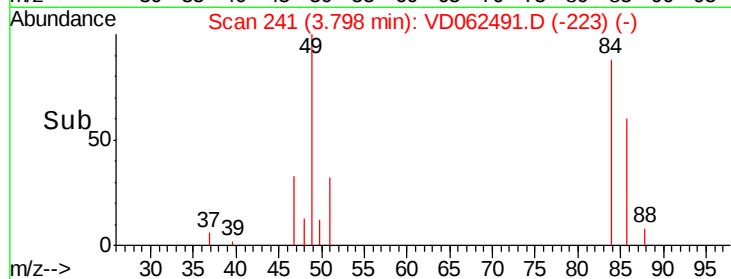
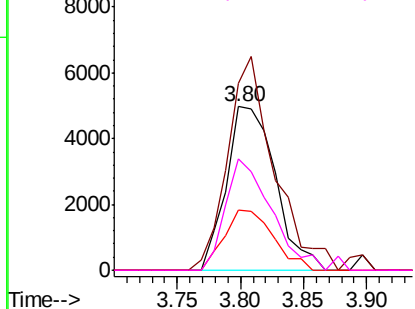
#20
Methylene Chloride
Concen: Below Cal
RT: 3.80 min Scan# 241
Delta R.T. -0.02 min
Lab File: VD062491.D
Acq: 21 May 2019 19:47

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:	84	Resp:	13439
Ion	Ratio	Lower	Upper
84	100		
49	114.1	94.0	141.0
51	36.4	29.0	43.4
86	68.0	49.8	74.6

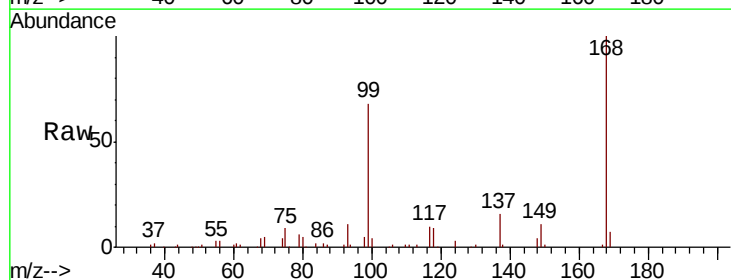


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

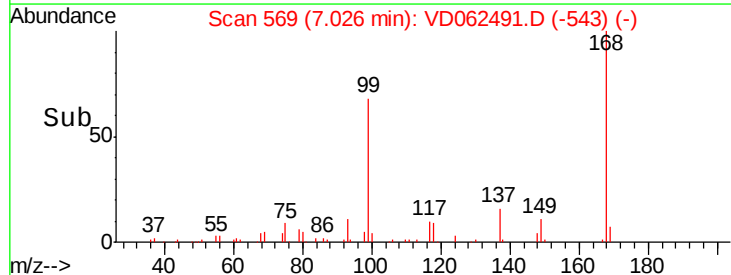
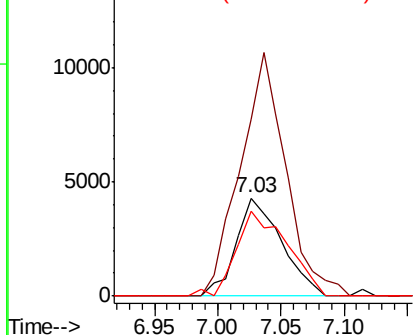


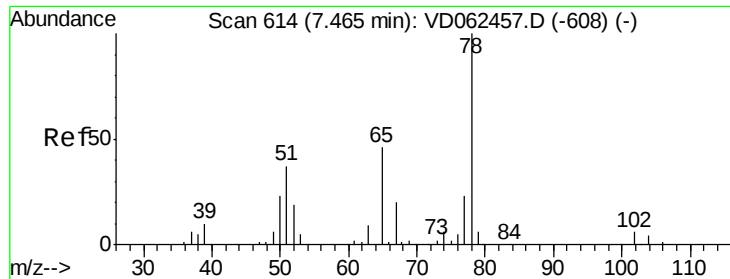
#31
Cyclohexane
Concen: 1.920 ug/l
RT: 7.03 min Scan# 569
Delta R.T. 0.05 min
Lab File: VD062491.D
Acq: 21 May 2019 19:47

Tgt Ion:	56	Resp:	10676
Ion	Ratio	Lower	Upper
56	100		
69	181.1	25.8	38.6#
84	86.7	72.2	108.4



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC





#33

1,2-Dichloroethane-d4

Concen: 36.903 ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.02 min

Lab File: VD062491.D

Acq: 21 May 2019 19:47

Instrument :

MSVOA_D

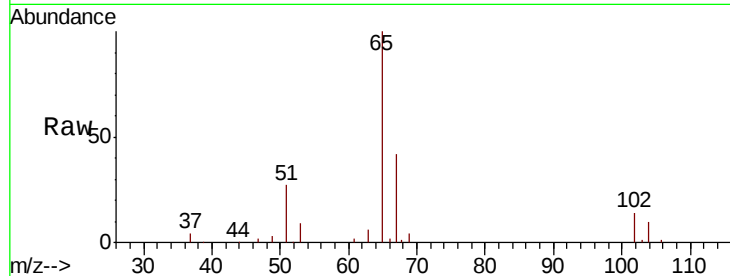
ClientSampleId :

Tot Ion: 65 Resp: 217347

Ion Ratio Lower Upper

65 100

67 42.3 0.0 98.0

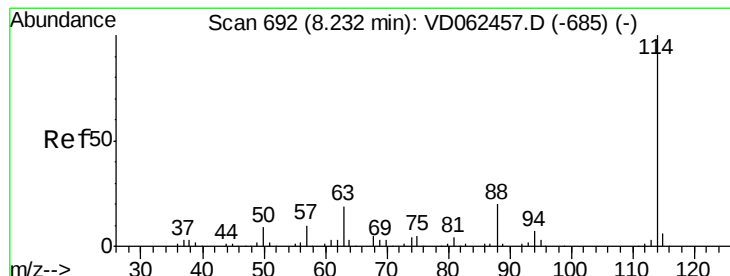
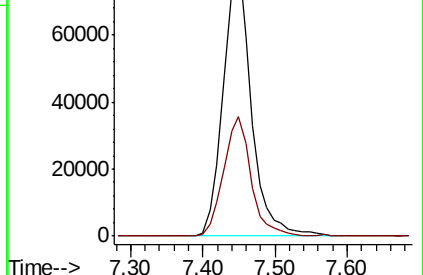
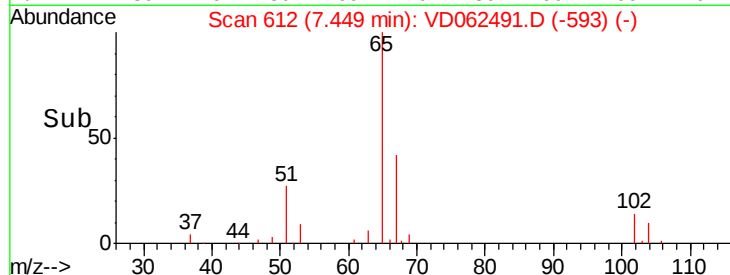


Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.45

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. -0.03 min

Lab File: VD062491.D

Acq: 21 May 2019 19:47

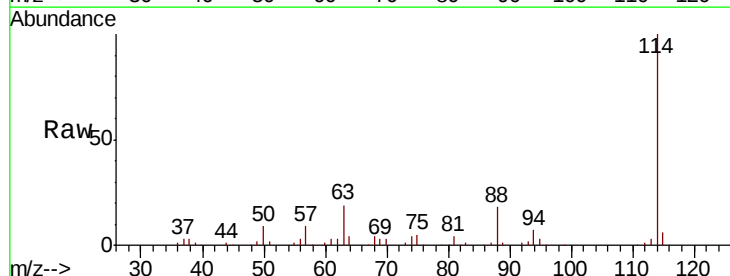
Tgt Ion: 114 Resp: 765350

Ion Ratio Lower Upper

114 100

63 19.0 0.0 32.4

88 18.3 0.0 33.6



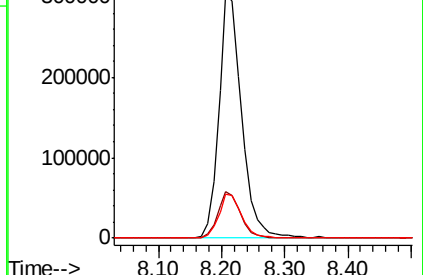
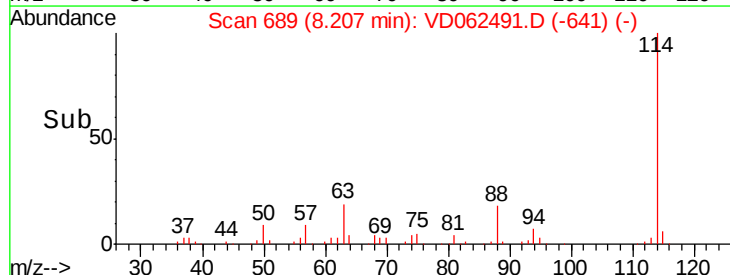
Abundance Ion 114.00 (113.70 to 114.70): V

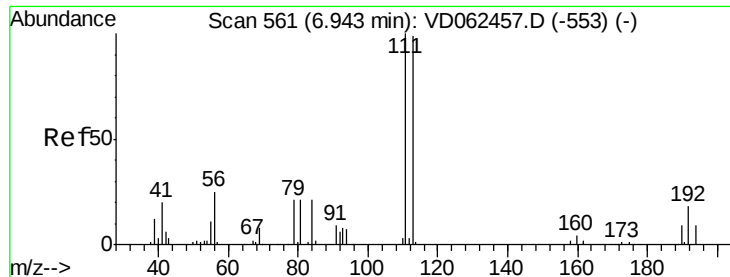
Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.21

Time-->

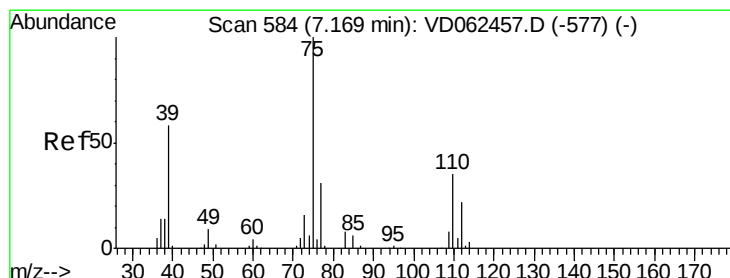
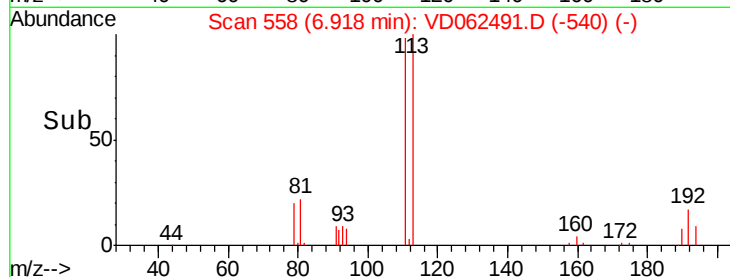
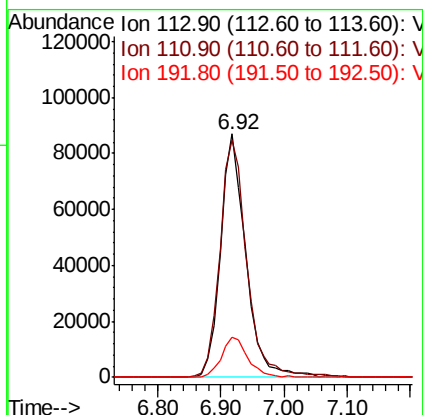
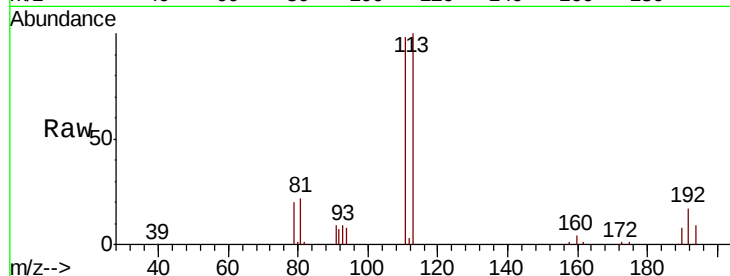




#35
 Dibromofluoromethane
 Concen: 35.169 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. -0.03 min
 Lab File: VD062491.D
 Acq: 21 May 2019 19:47

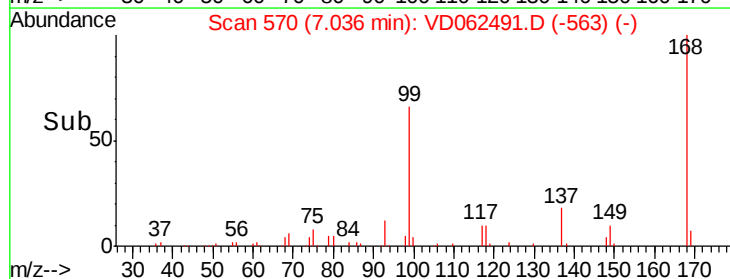
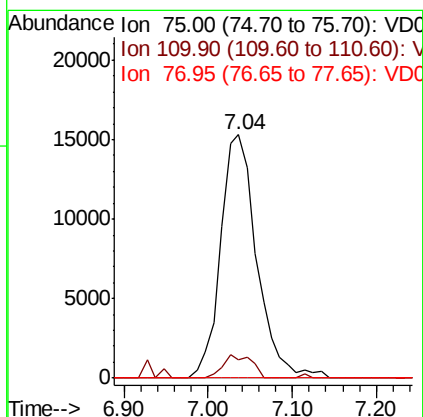
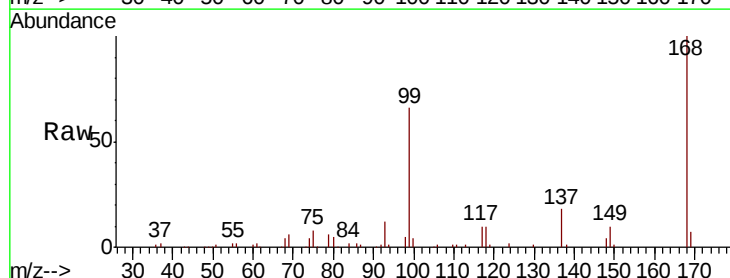
Instrument :
 MSVOA_D
 ClientSampleID :

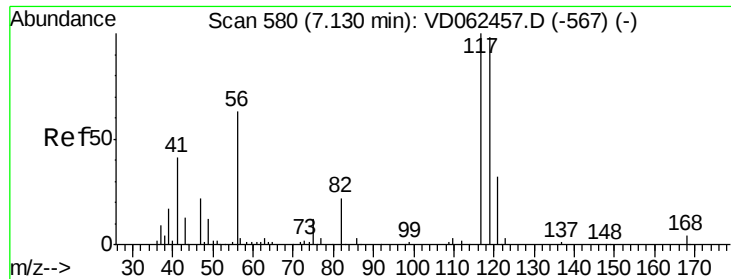
Tot Ion:113 Resp: 242823
 Ion Ratio Lower Upper
 113 100
 111 97.6 78.5 117.7
 192 16.6 13.0 19.4



#36
 1,1-Dichloropropene
 Concen: 6.247 ug/l
 RT: 7.04 min Scan# 570
 Delta R.T. -0.13 min
 Lab File: VD062491.D
 Acq: 21 May 2019 19:47

Tgt Ion: 75 Resp: 45711
 Ion Ratio Lower Upper
 75 100
 110 7.5 19.1 57.1#
 77 0.0 25.6 38.4#





#38

Carbon Tetrachloride

Concen: 5.127 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.09 min

Lab File: VD062491.D

Acq: 21 May 2019 19:47

Instrument :

MSVOA_D

ClientSampled :

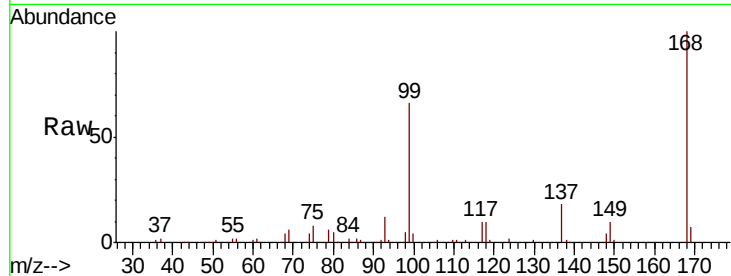
Tot Ion:117 Resp: 55761

Ion Ratio Lower Upper

117 100

119 7.2 75.8 113.8#

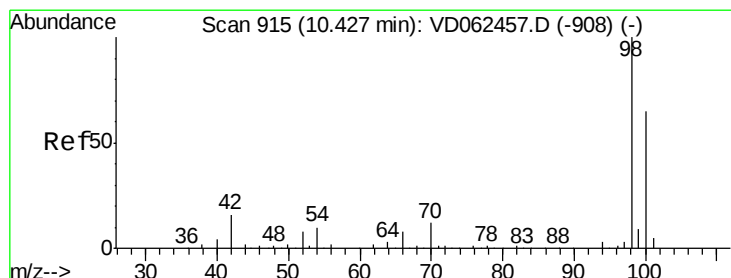
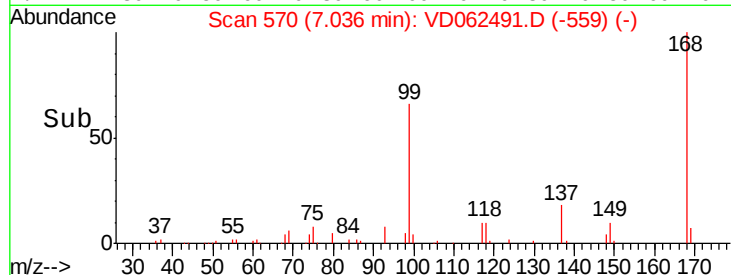
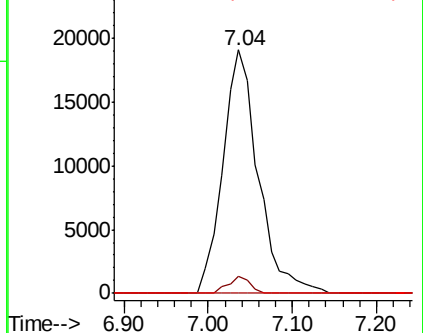
121 0.0 25.9 38.9#



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



#50

Toluene-d8

Concen: 33.662 ug/l

RT: 10.40 min Scan# 912

Delta R.T. -0.03 min

Lab File: VD062491.D

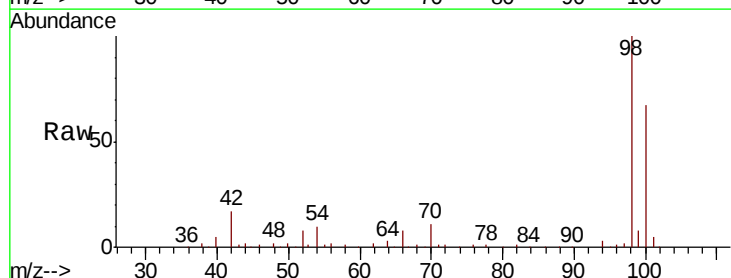
Acq: 21 May 2019 19:47

Tgt Ion: 98 Resp: 508620

Ion Ratio Lower Upper

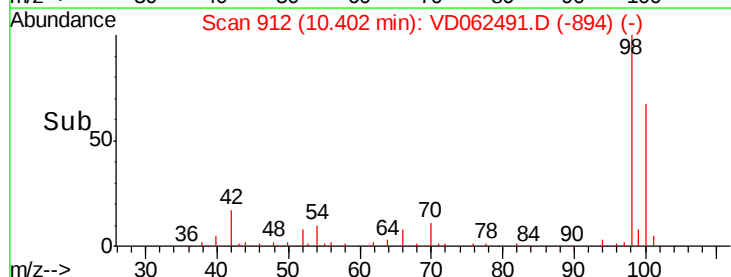
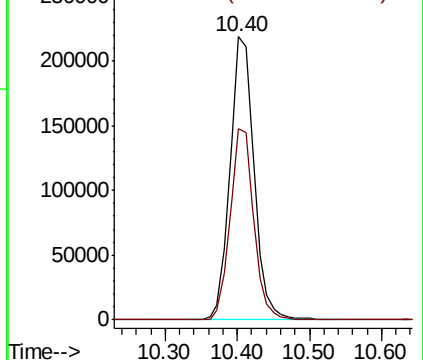
98 100

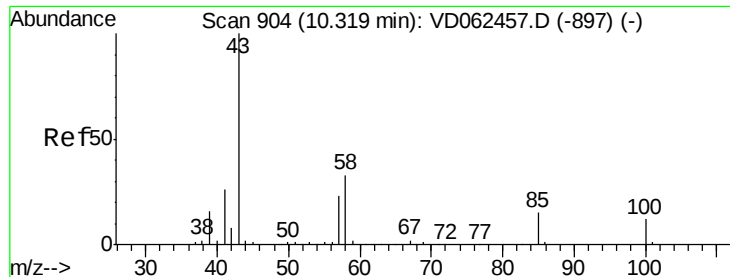
100 67.5 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#51

4-Methyl-2-Pentanone

Concen: 1.211 ug/l

RT: 10.40 min Scan# 912

Delta R.T. 0.08 min

Lab File: VD062491.D

Acq: 21 May 2019 19:47

Instrument :

MSVOA_D

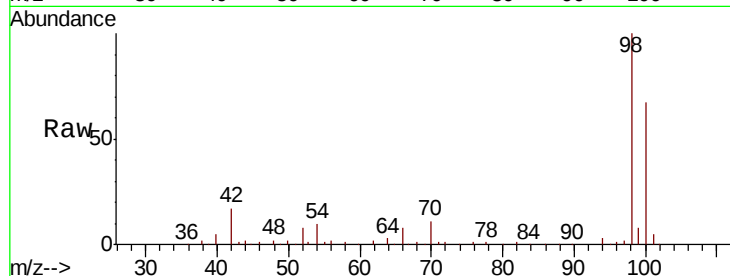
ClientSampleID :

Tot Ion: 43 Resp: 3016

Ion Ratio Lower Upper

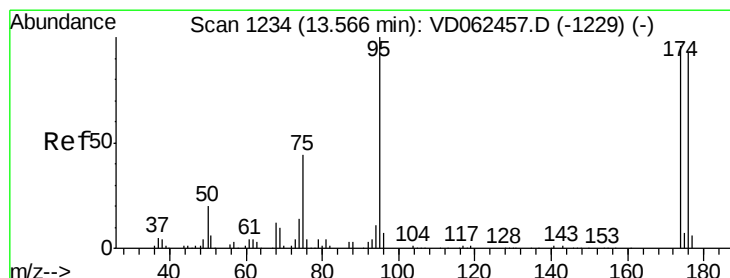
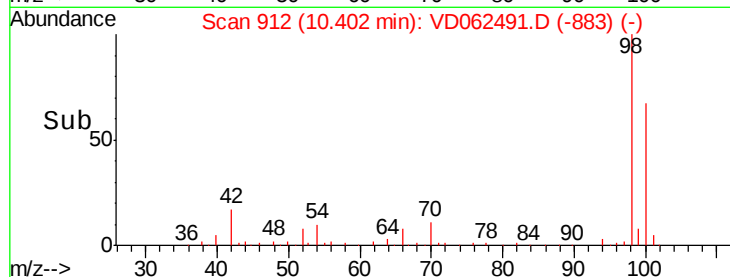
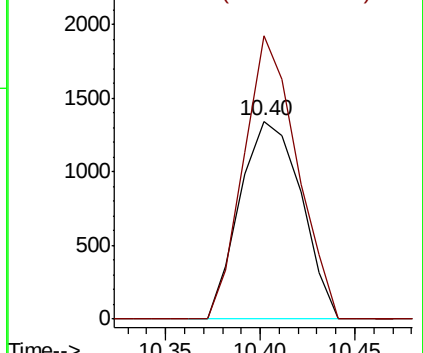
43 100

58 143.2 30.4 45.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#62

4-Bromofluorobenzene

Concen: 35.155 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.02 min

Lab File: VD062491.D

Acq: 21 May 2019 19:47

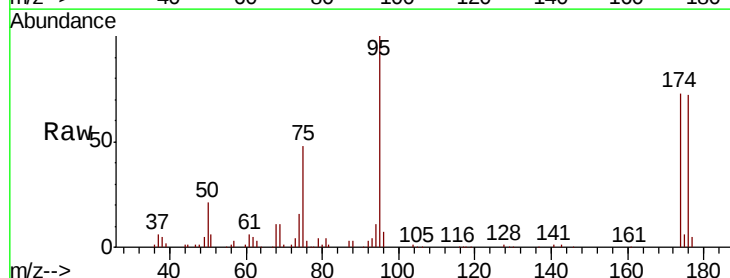
Tgt Ion: 95 Resp: 232356

Ion Ratio Lower Upper

95 100

174 73.5 0.0 181.8

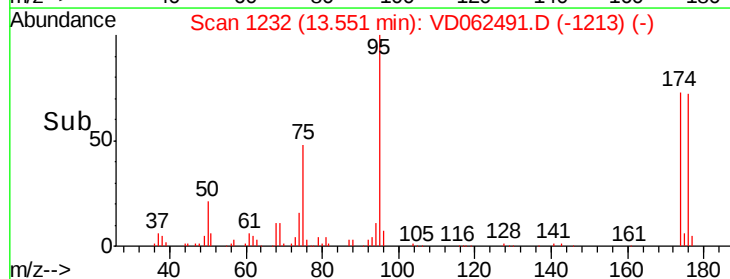
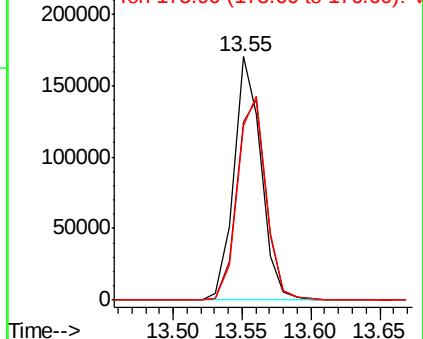
176 71.6 0.0 174.4

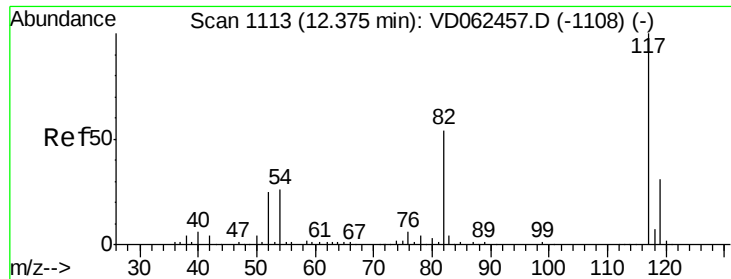


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

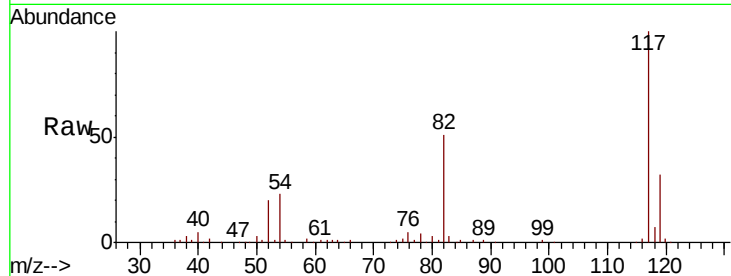




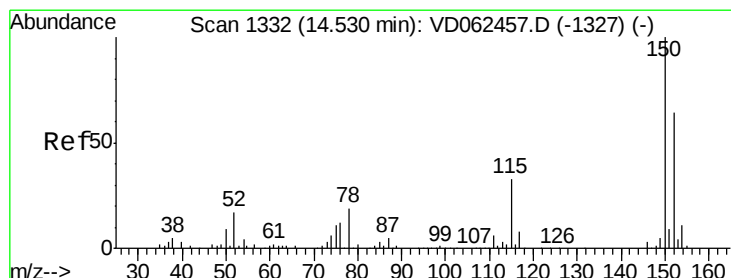
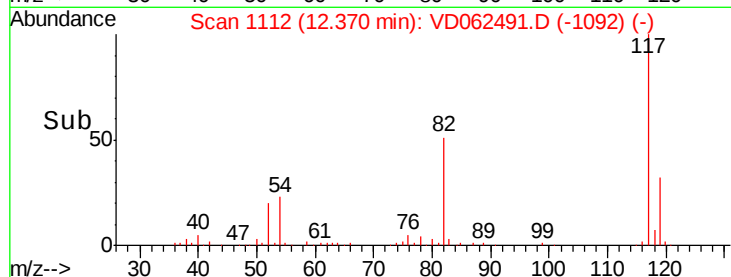
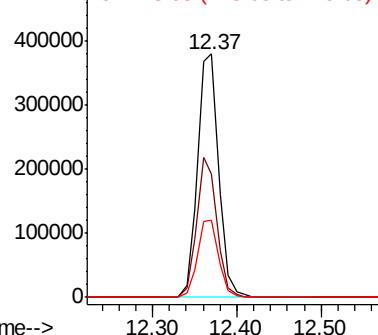
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VD062491.D
Acq: 21 May 2019 19:47

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 661624
Ion Ratio Lower Upper
117 100
82 50.7 36.2 54.2
119 31.9 26.2 39.4

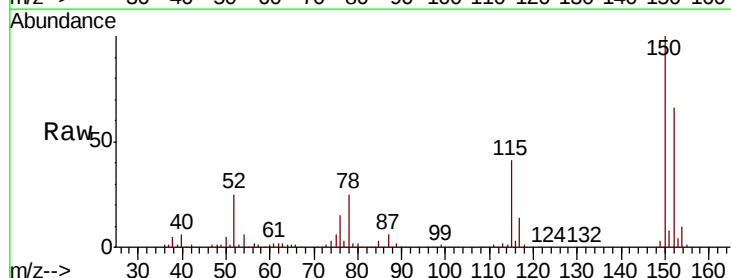


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

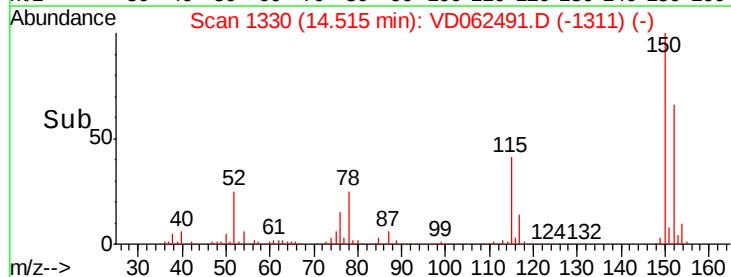
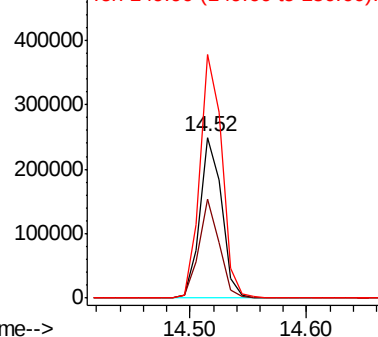


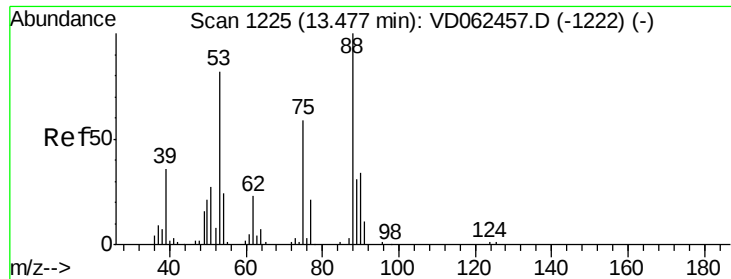
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.02 min
Lab File: VD062491.D
Acq: 21 May 2019 19:47

Tgt Ion:152 Resp: 323305
Ion Ratio Lower Upper
152 100
115 61.4 30.9 92.7
150 151.5 0.0 314.8



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: 97.865 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD062491.D

Acq: 21 May 2019 19:47

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 75 Resp: 105107

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

89 0.0 35.0 52.6#

