

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
 Data File : VD062508.D
 Acq On : 22 May 2019 17:42
 Operator : VA/AP
 Sample : K2996-07
 Misc : 5.79g/5ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 P-7(4.5-5.0)

Manual Integrations
 APPROVED

MMDadoda
 5/23/2019 11:21:37 AM

Quant Time: May 23 04:22:17 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	7.03	168	528891	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	8.20	114	706157	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.35	117	595683	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.51	152	248466	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.44	65	191787	33.88	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	67.76%	
35) Dibromofluoromethane	6.91	113	241209	37.86	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	75.72%	
50) Toluene-d8	10.39	98	461613	33.11	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	66.22%	
62) 4-Bromofluorobenzene	13.54	95	219582	36.01	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	72.02%	
Target Compounds						
					Qvalue	
31) Cyclohexane	6.95	56	26024	4.868	ug/l #	50
39) Methylcyclohexane	8.86	83	16042	2.881	ug/l #	80
52) Toluene	10.49	92	28826	3.180	ug/l	94
67) Ethyl Benzene	12.51	91	174319	8.835	ug/l	96
68) m/p-Xylenes	12.66	106	252804	35.694	ug/l	87
69) o-Xylene	13.04	106	43275	6.476	ug/l	95
73) Isopropylbenzene	13.39	105	32859	2.098	ug/l	99
78) n-propylbenzene	13.76	91	58258	3.211	ug/l	90
80) 1,3,5-Trimethylbenzene	13.93	105	76537	5.644	ug/l	98
84) 1,2,4-Trimethylbenzene	14.23	105	315092	22.676	ug/l	93
95) Naphthalene	16.12	128	111286	15.504	ug/l	99

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

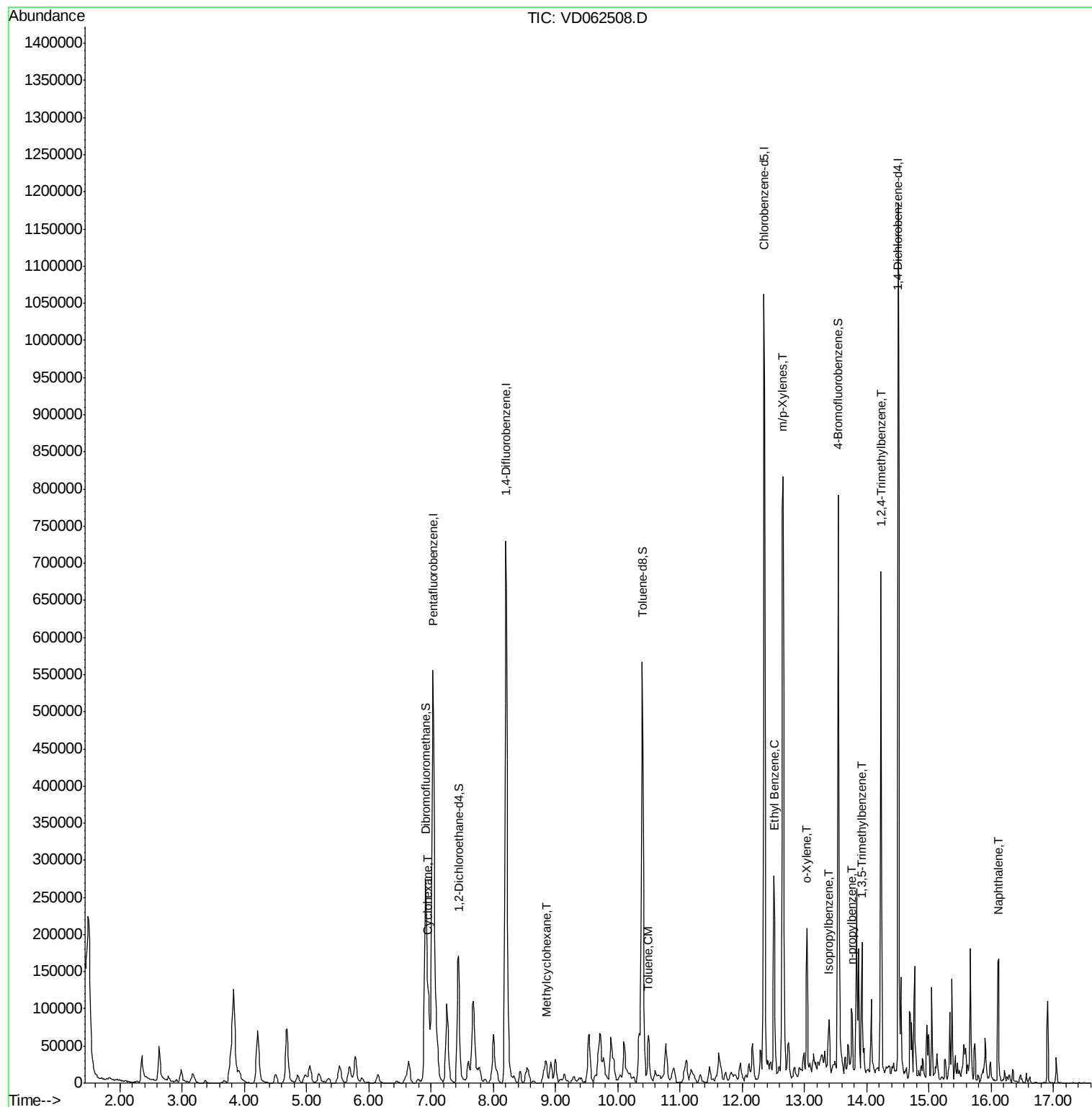
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD052219\
Data File : VD062508.D
Acq On : 22 May 2019 17:42
Operator : VA/AP
Sample : K2996-07
Misc : 5.79g/5ml/MSVOA D/SOIL
ALS Vial : 14 Sample Multiplier: 1

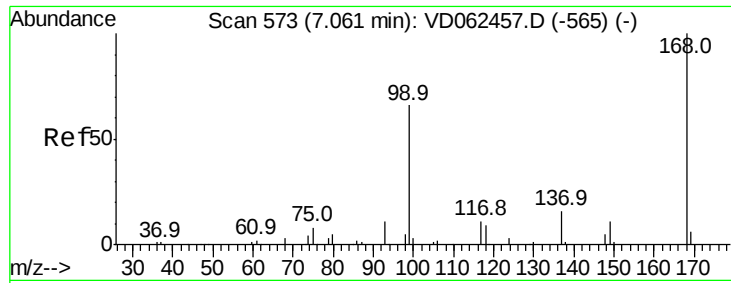
Instrument :
MSVOA_D
ClientSampleId :
P-7(4.5-5.0)

Manual Integrations
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5/23/2019 11:21:37 AM

Quant Time: May 23 04:22:17 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260
QLast Update : Tue May 21 03:32:39 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: VD062508.D

Acq: 22 May 2019 17:42

Instrument :

MSVOA_D

ClientSampleId :

P-7(4.5-5.0)

Tot Ion:168 Resp: 528891

Ion Ratio Lower Upper

168 100

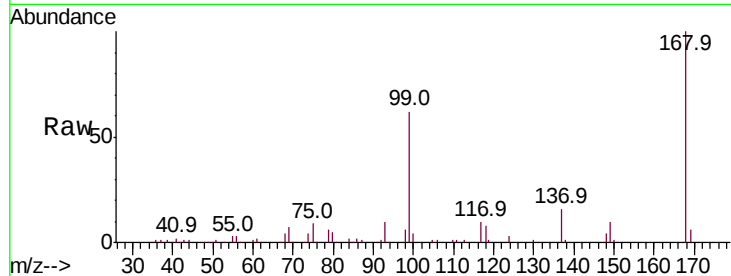
99 61.7 46.5 69.7

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.03

200000

150000

100000

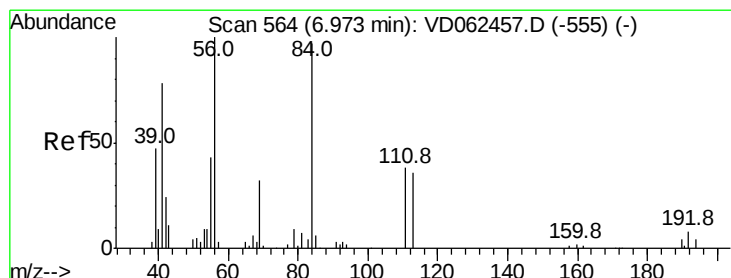
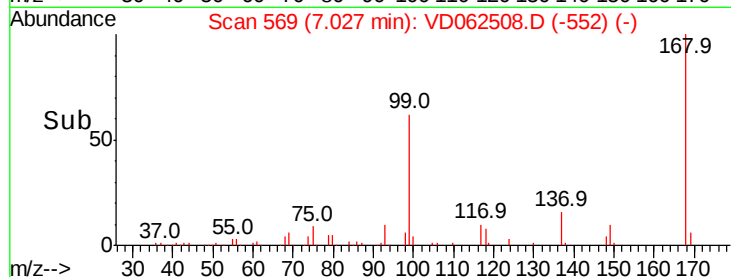
50000

0

7.00

7.20

Time-->



#31

Cyclohexane

Concen: 4.868 ug/l

RT: 6.95 min Scan# 561

Delta R.T. -0.02 min

Lab File: VD062508.D

Acq: 22 May 2019 17:42

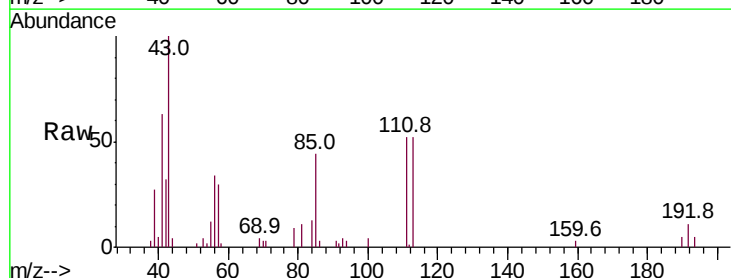
Tgt Ion: 56 Resp: 26024

Ion Ratio Lower Upper

56 100

69 11.4 25.8 38.6#

84 38.6 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

15000

10000

5000

0

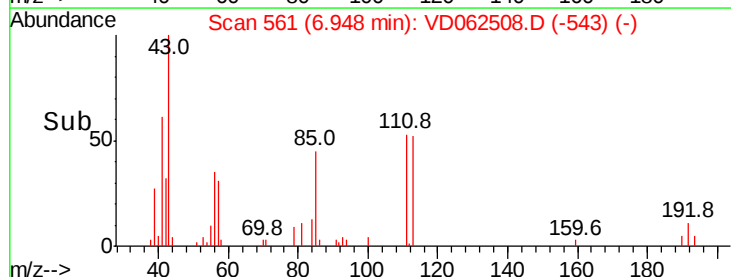
6.85

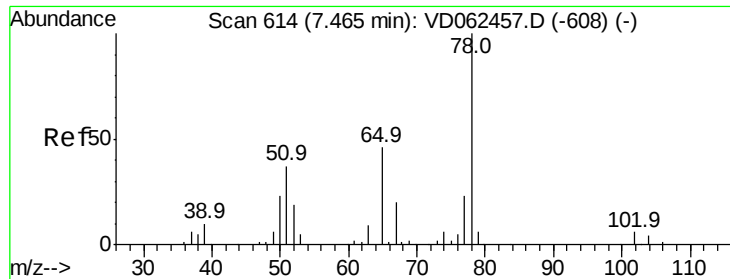
6.90

6.95

7.00

Time-->





#33

1,2-Dichloroethane-d4

Concen: 33.876 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.02 min

Lab File: VD062508.D

Acq: 22 May 2019 17:42

Instrument :

MSVOA_D

ClientSampleId :

P-7(4.5-5.0)

Tot Ion: 65 Resp: 191787

Ion Ratio Lower Upper

65 100

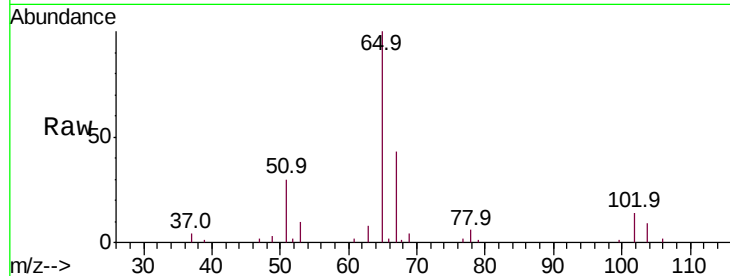
67 43.3 0.0 98.0

Manual Integrations

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Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.44

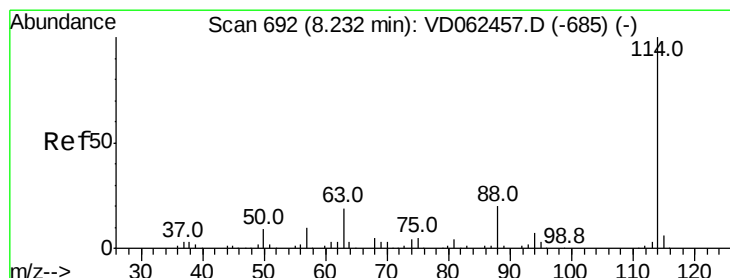
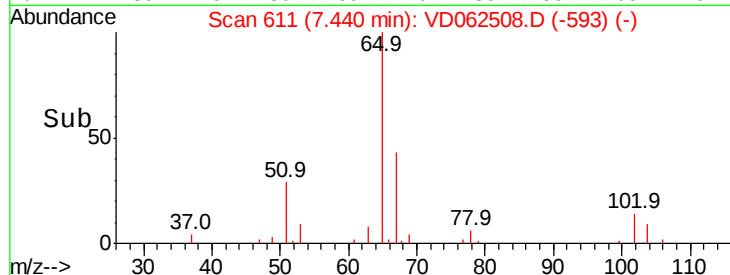
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.20 min Scan# 688

Delta R.T. -0.03 min

Lab File: VD062508.D

Acq: 22 May 2019 17:42

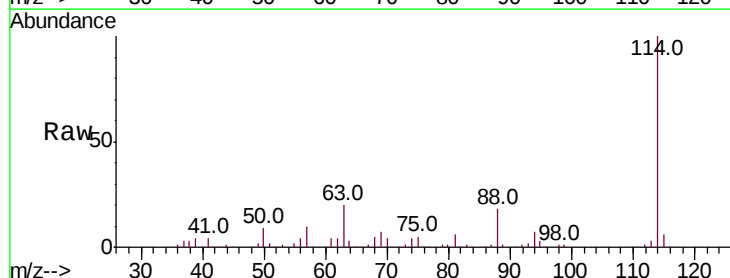
Tgt Ion:114 Resp: 706157

Ion Ratio Lower Upper

114 100

63 20.0 0.0 32.4

88 18.1 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

8.20

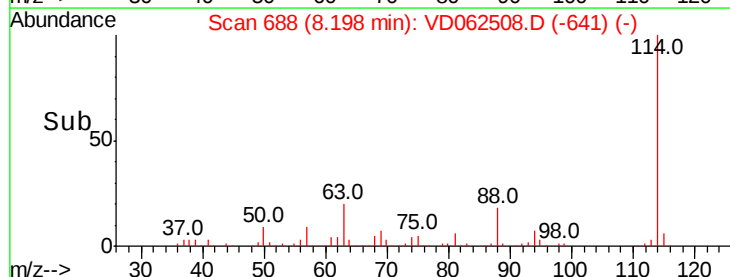
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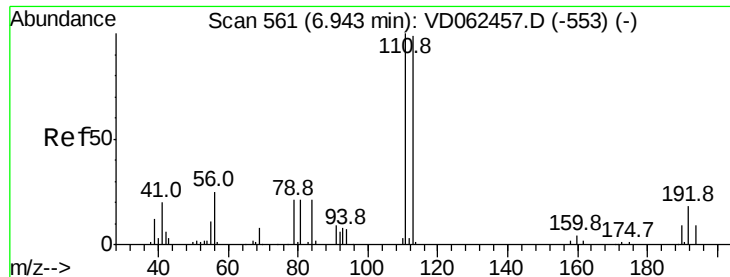
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 37.864 ug/l

RT: 6.91 min Scan# 557

Delta R.T. -0.03 min

Lab File: VD062508.D

Acq: 22 May 2019 17:42

Instrument :

MSVOA_D

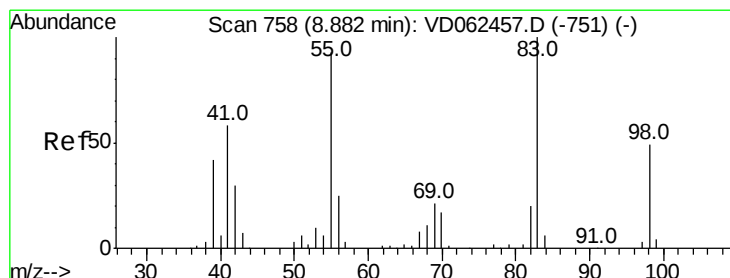
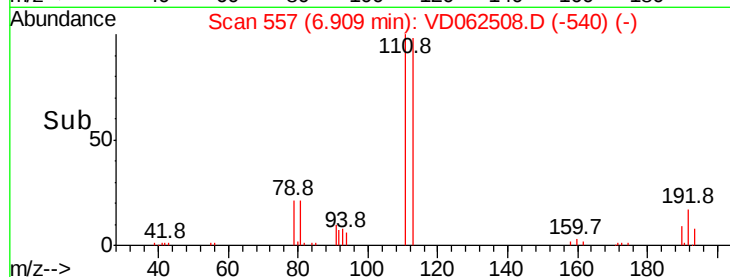
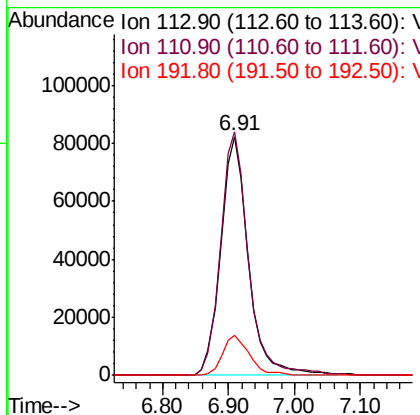
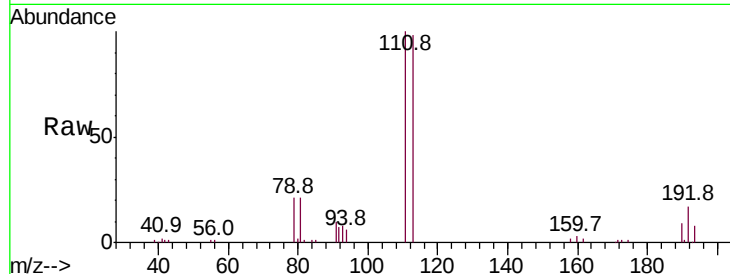
ClientSampled :

P-7(4.5-5.0)

Tot Ion:	113	Resp:	241209
Ion Ratio	Lower	Upper	
113	100		
111	101.9	78.5	117.7
192	16.9	13.0	19.4

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#39

Methylcyclohexane

Concen: 2.881 ug/l

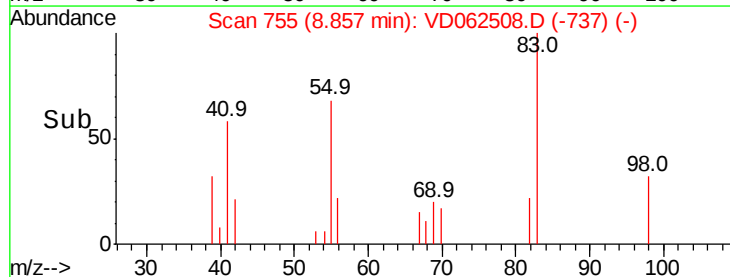
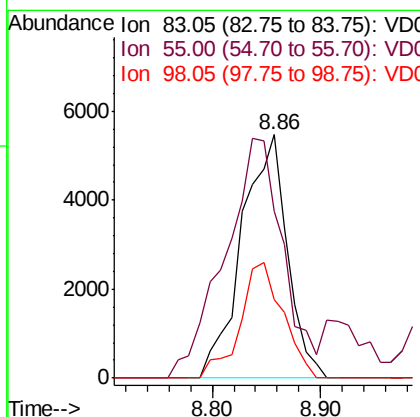
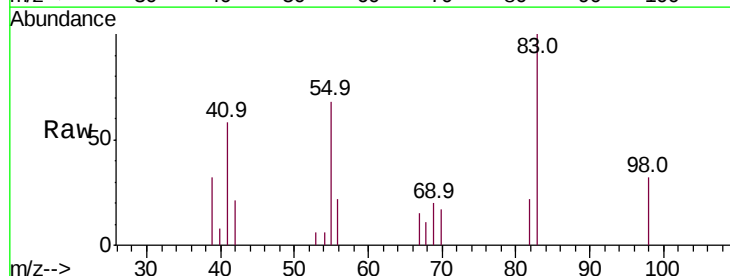
RT: 8.86 min Scan# 755

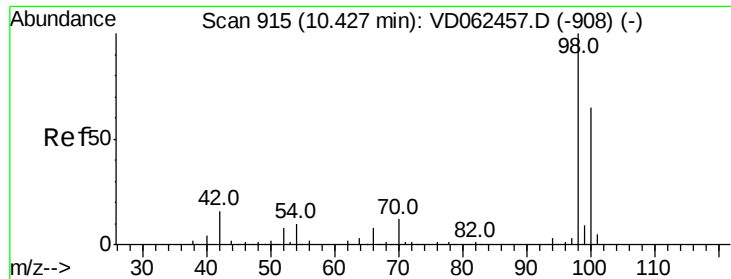
Delta R.T. -0.02 min

Lab File: VD062508.D

Acq: 22 May 2019 17:42

Tgt Ion:	83	Resp:	16042
Ion Ratio	Lower	Upper	
83	100		
55	68.3	68.2	102.4
98	32.5	38.2	57.4#





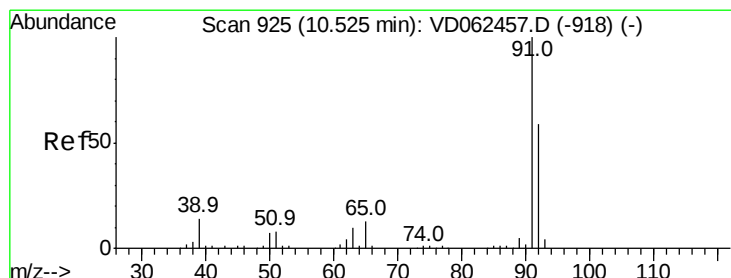
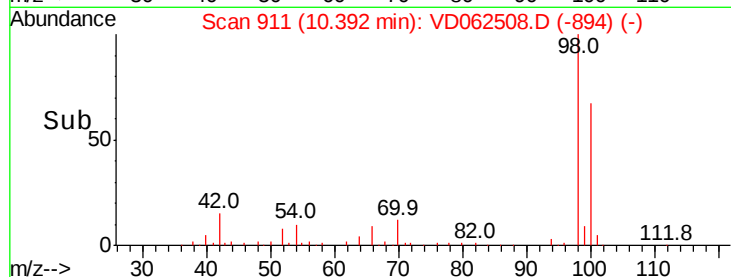
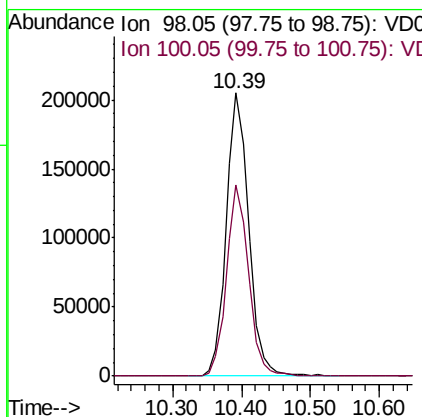
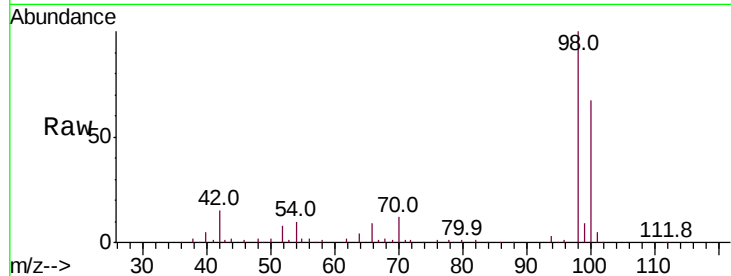
#50
Toluene-d8
Concen: 33.112 ug/l
RT: 10.39 min Scan# 911
Delta R.T. -0.03 min
Lab File: VD062508.D
Acq: 22 May 2019 17:42

Instrument :
MSVOA_D
ClientSampleId :
P-7(4.5-5.0)

Tot Ion: 98 Resp: 461613
Ion Ratio Lower Upper
98 100
100 67.5 53.8 80.8

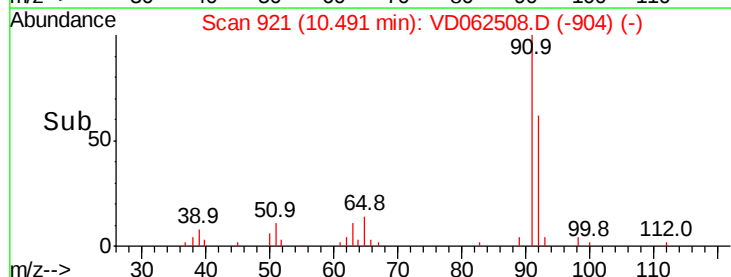
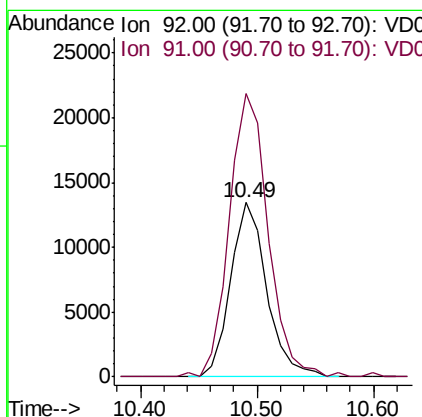
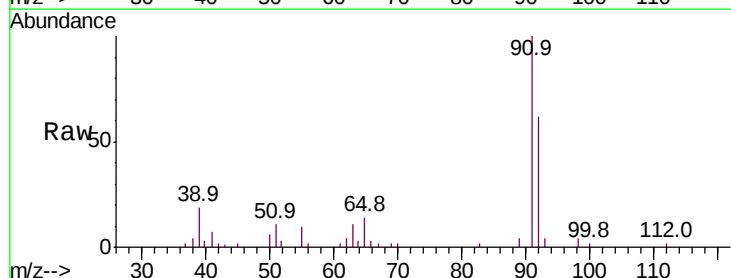
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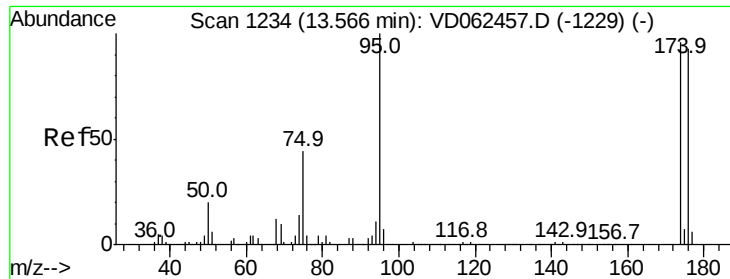
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#52
Toluene
Concen: 3.180 ug/l
RT: 10.49 min Scan# 921
Delta R.T. -0.03 min
Lab File: VD062508.D
Acq: 22 May 2019 17:42

Tgt Ion: 92 Resp: 28826
Ion Ratio Lower Upper
92 100
91 162.2 136.6 204.8





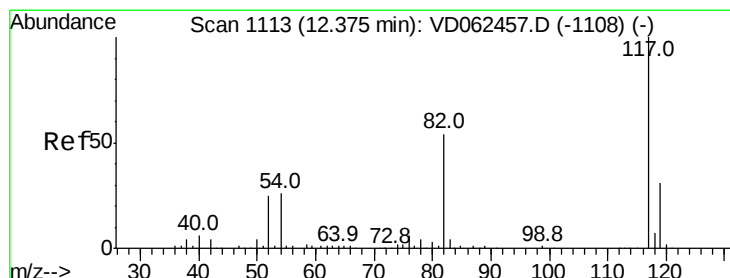
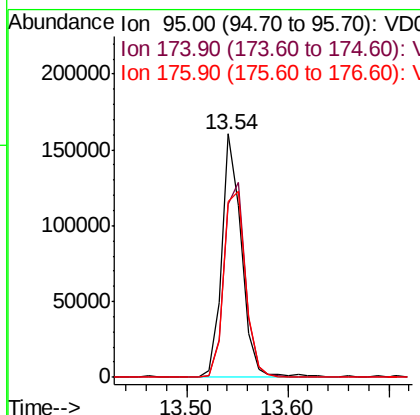
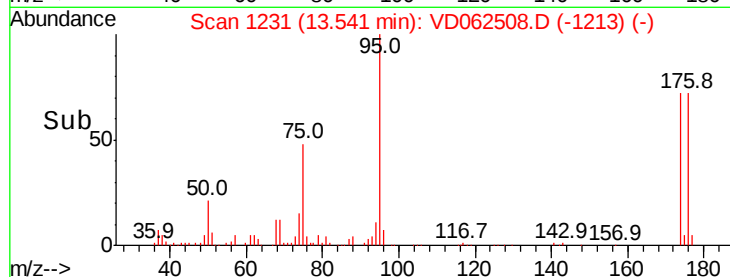
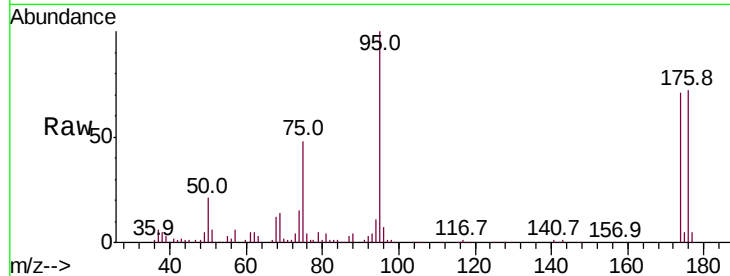
#62
 4-Bromofluorobenzene
 Concen: 36.007 ug/l
 RT: 13.54 min Scan# 1231
 Delta R.T. -0.02 min
 Lab File: VD062508.D
 Acq: 22 May 2019 17:42

Instrument :
 MSVOA_D
 ClientSampleId :
 P-7(4.5-5.0)

Tot Ion	Ratio	Resp	Lower	Upper
95	100	219582		
174	71.3	0.0	181.8	
176	72.1	0.0	174.4	

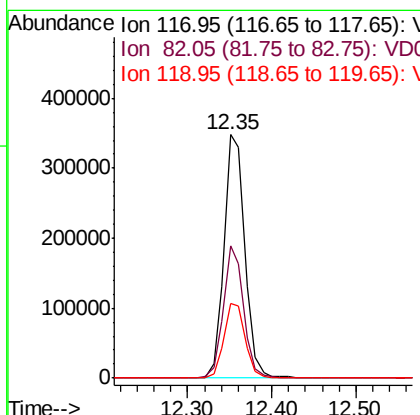
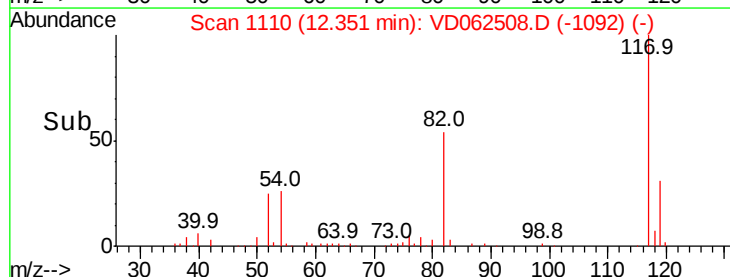
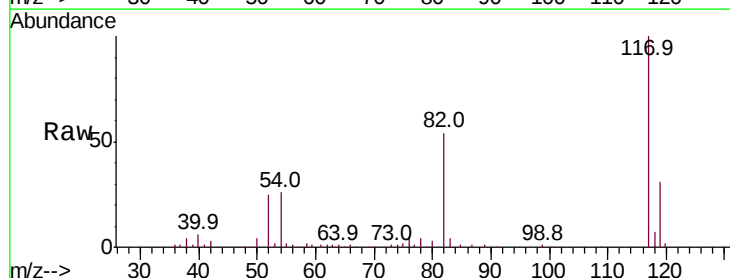
Manual Integrations
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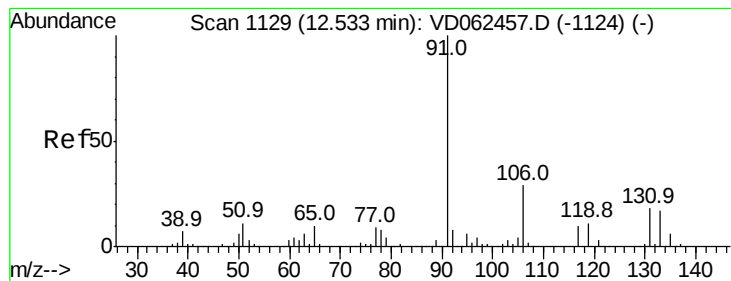
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#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 12.35 min Scan# 1110
 Delta R.T. -0.02 min
 Lab File: VD062508.D
 Acq: 22 May 2019 17:42

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	595683		
82	54.2	36.2	54.2#	
119	30.8	26.2	39.4	





#67

Ethyl Benzene

Concen: 8.835 ug/l

RT: 12.51 min Scan# 1126

Delta R.T. -0.02 min

Lab File: VD062508.D

Acq: 22 May 2019 17:42

Instrument :

MSVOA_D

ClientSampleId :

P-7(4.5-5.0)

Tot Ion: 91 Resp: 174319

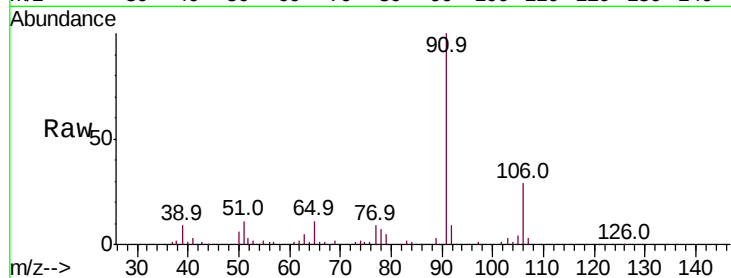
Ion Ratio Lower Upper

91 100

106 28.9 24.7 37.1

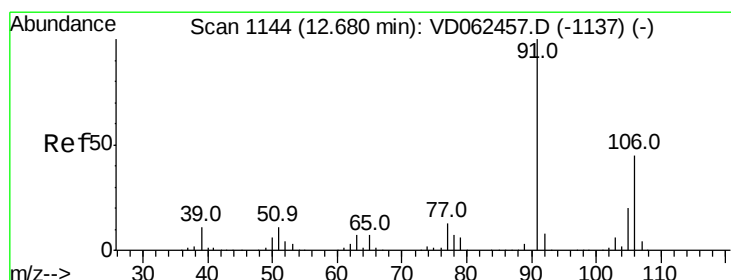
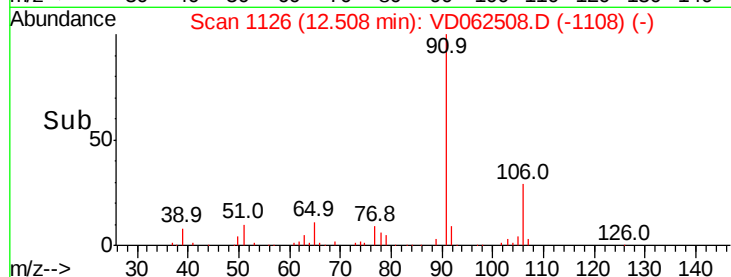
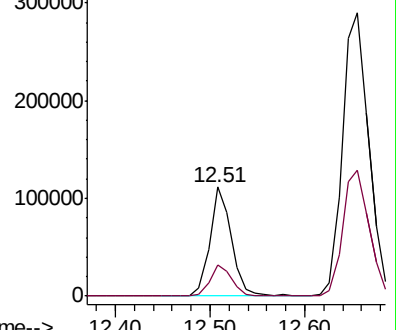
Manual Integrations
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Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 106.05 (105.75 to 106.75): V



#68

m/p-Xylenes

Concen: 35.694 ug/l

RT: 12.66 min Scan# 1141

Delta R.T. -0.02 min

Lab File: VD062508.D

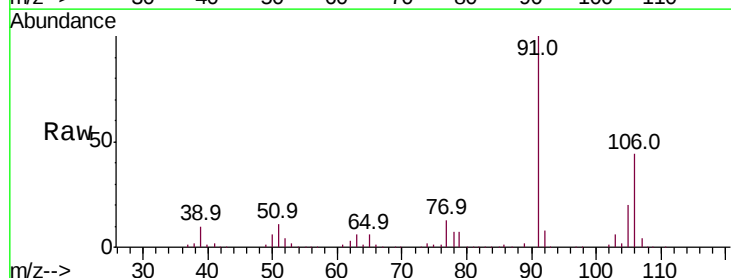
Acq: 22 May 2019 17:42

Tgt Ion: 106 Resp: 252804

Ion Ratio Lower Upper

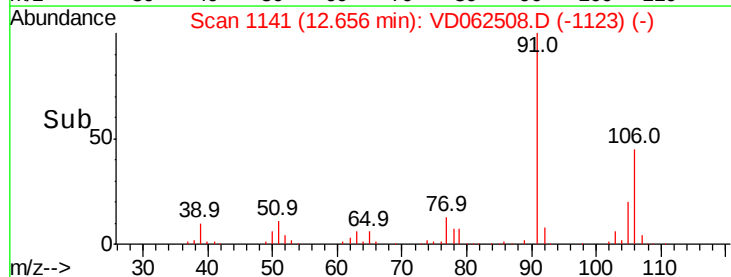
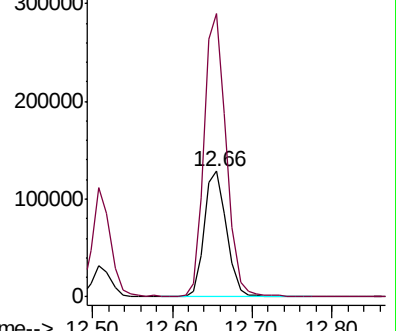
106 100

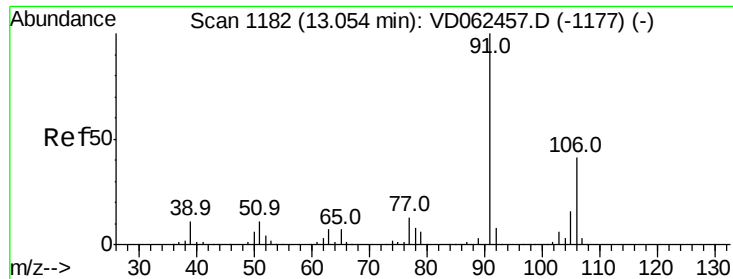
91 225.1 164.0 246.0



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): VDC





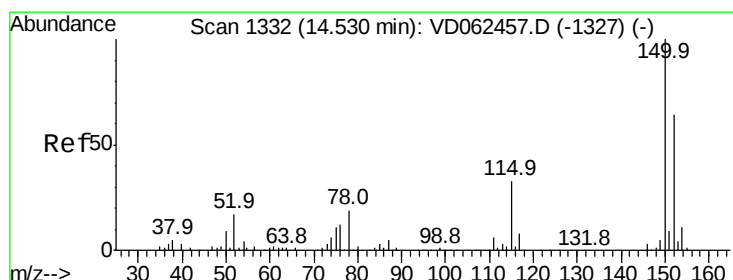
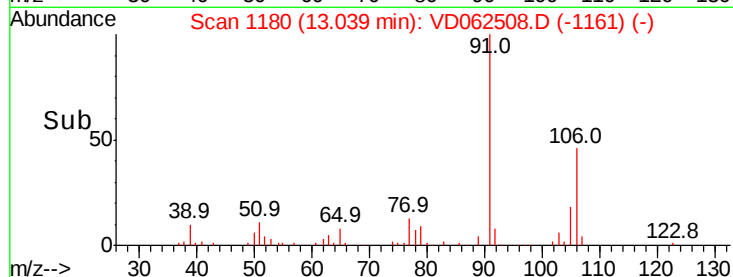
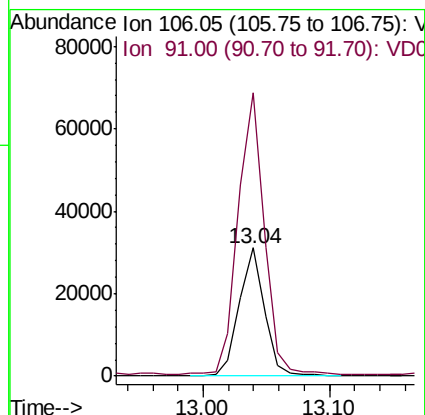
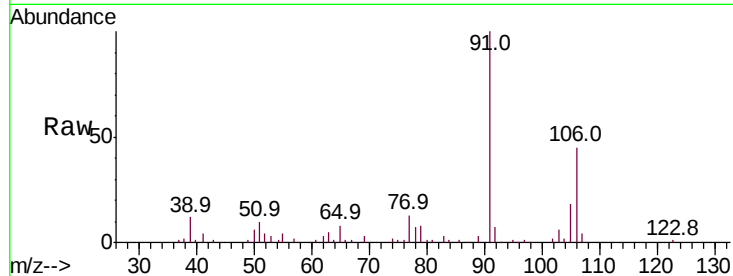
#69
o-Xylene
Concen: 6.476 ug/l
RT: 13.04 min Scan# 1180
Delta R.T. -0.01 min
Lab File: VD062508.D
Acq: 22 May 2019 17:42

Instrument :
MSVOA_D
ClientSampleId :
P-7(4.5-5.0)

Tot Ion:106 Resp: 43275
Ion Ratio Lower Upper
106 100
91 220.5 106.7 319.9

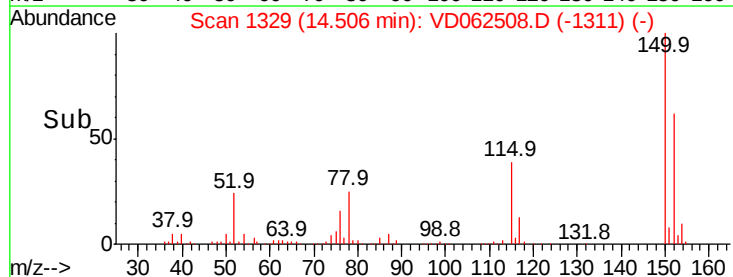
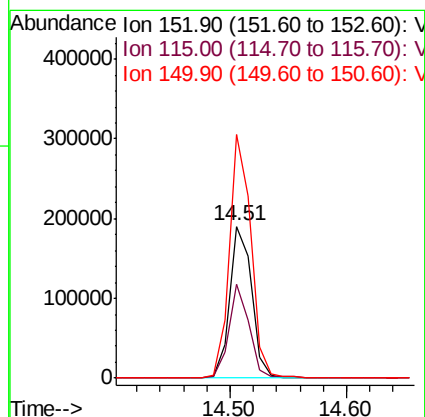
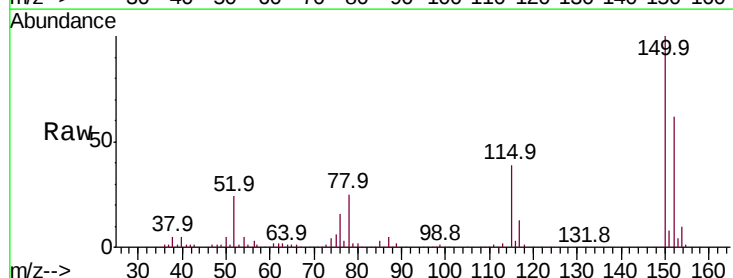
Manual Integrations
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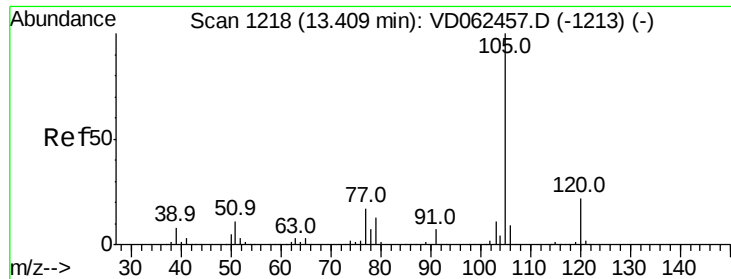
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5/23/2019 11:21:37 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.02 min
Lab File: VD062508.D
Acq: 22 May 2019 17:42

Tgt Ion:152 Resp: 248466
Ion Ratio Lower Upper
152 100
115 62.4 30.9 92.7
150 160.8 0.0 314.8





#73

Isopropylbenzene

Concen: 2.098 ug/l

RT: 13.39 min Scan# 1216

Delta R.T. -0.01 min

Lab File: VD062508.D

Acq: 22 May 2019 17:42

Instrument :

MSVOA_D

ClientSampleId :

P-7(4.5-5.0)

Tot Ion:105 Resp: 32859

Ion Ratio Lower Upper

105 100

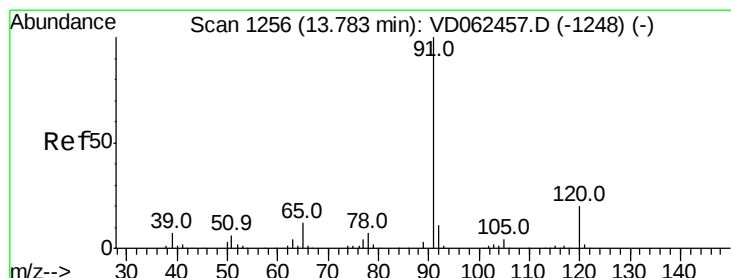
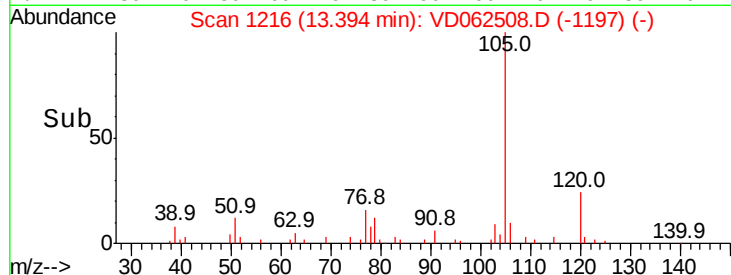
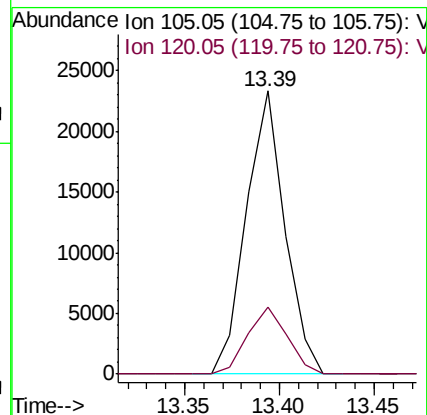
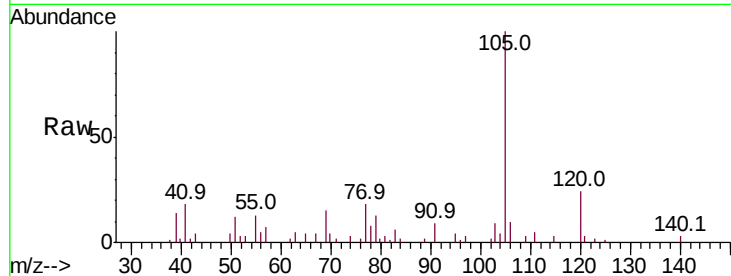
120 23.7 12.0 36.1

Manual Integrations

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#78

n-propylbenzene

Concen: 3.211 ug/l

RT: 13.76 min Scan# 1253

Delta R.T. -0.02 min

Lab File: VD062508.D

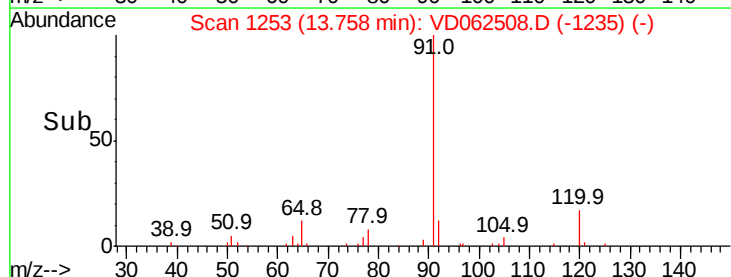
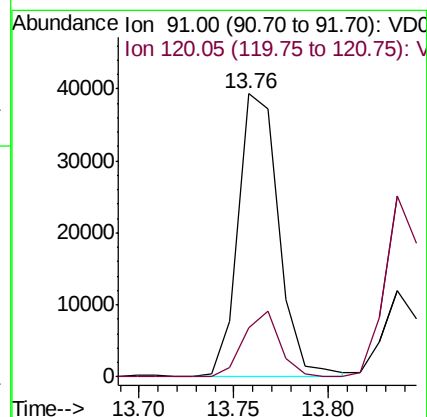
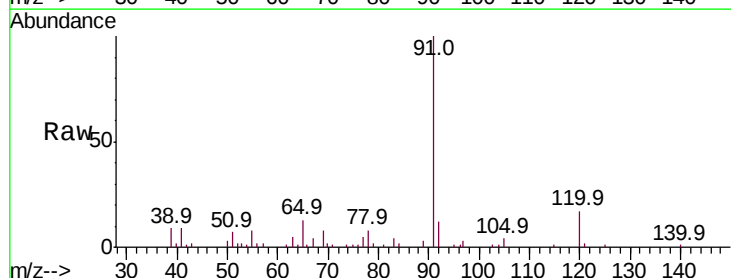
Acq: 22 May 2019 17:42

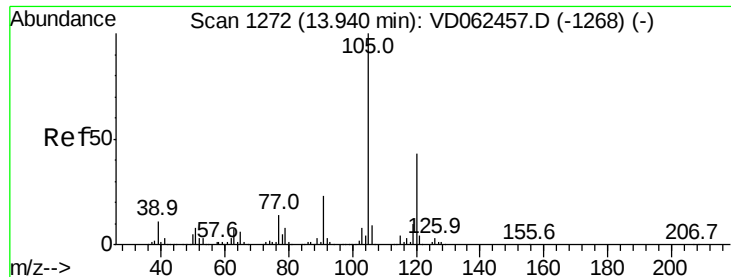
Tgt Ion: 91 Resp: 58258

Ion Ratio Lower Upper

91 100

120 17.2 11.1 33.1





#80

1,3,5-Trimethylbenzene

Concen: 5.644 ug/l

RT: 13.93 min Scan# 1270

Delta R.T. -0.01 min

Lab File: VD062508.D

Acq: 22 May 2019 17:42

Instrument :

MSVOA_D

ClientSampleId :

P-7(4.5-5.0)

Tot Ion:105 Resp: 76537

Ion Ratio Lower Upper

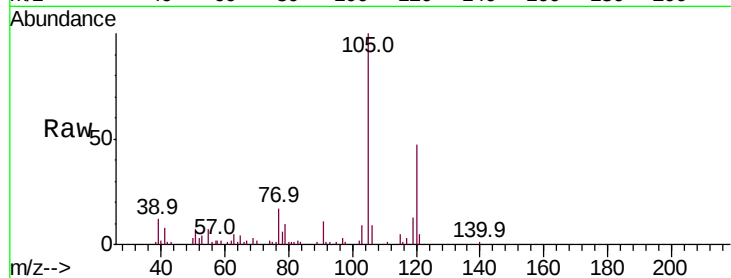
105 100

120 46.7 24.0 72.0

Manual Integrations
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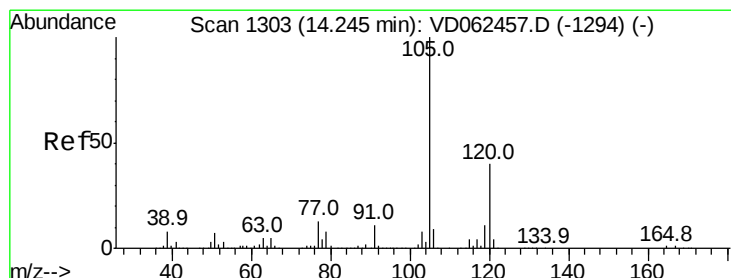
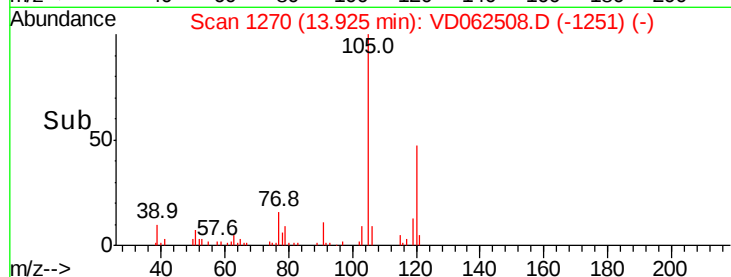
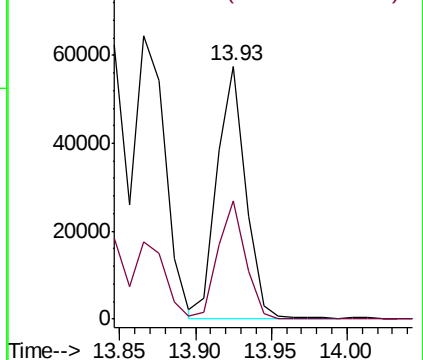
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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#84

1,2,4-Trimethylbenzene

Concen: 22.676 ug/l

RT: 14.23 min Scan# 1301

Delta R.T. -0.01 min

Lab File: VD062508.D

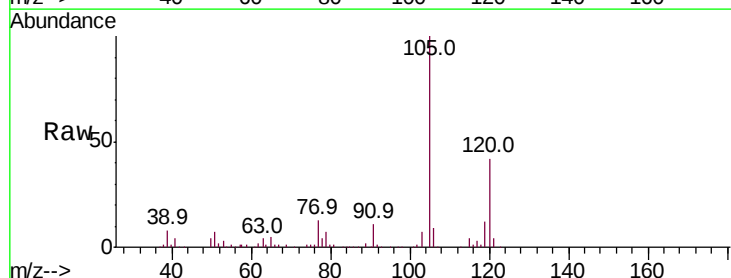
Acq: 22 May 2019 17:42

Tgt Ion:105 Resp: 315092

Ion Ratio Lower Upper

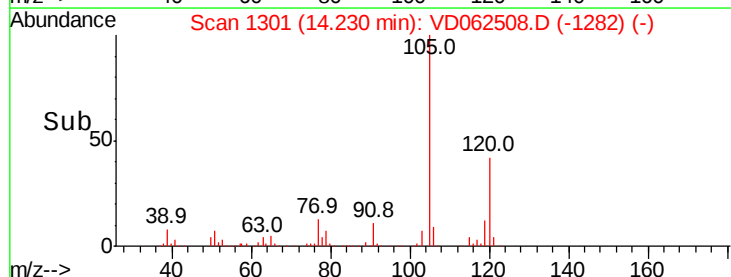
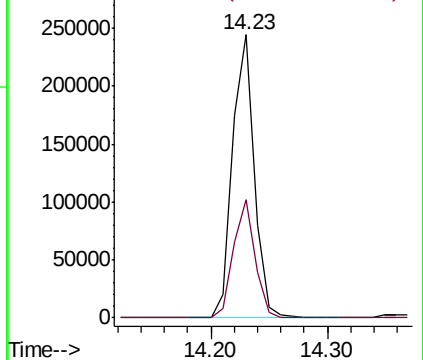
105 100

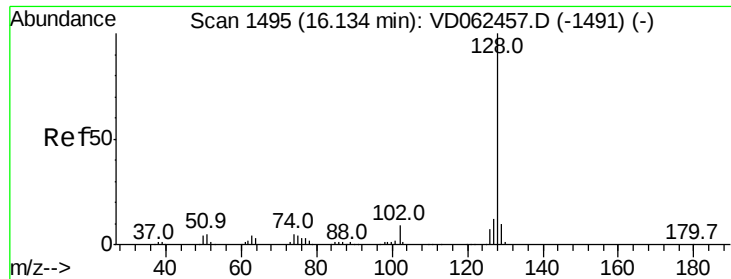
120 41.7 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#95
 Naphthalene
 Concen: 15.504 ug/l
 RT: 16.12 min Scan# 1493
 Delta R.T. -0.01 min
 Lab File: VD062508.D
 Acq: 22 May 2019 17:42

Instrument :
 MSVOA_D
 ClientSampleId :
 P-7(4.5-5.0)

Tot Ion	Ratio	Resp Lower	Upper
128	100		
127	11.9	9.8	14.8
129	10.9	8.8	13.2

Manual Integrations
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