

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
 Data File : VD062510.D
 Acq On : 22 May 2019 18:35
 Operator : VA/AP
 Sample : K2996-09
 Misc : 6.12g/5ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 P-9(0.5-1.0)

Manual Integrations
 APPROVED

MMDadoda
 5/23/2019 11:21:42 AM

Quant Time: May 23 04:30:33 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	7.06	168	179291	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.24	114	424936	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.39	117	143034	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.53	152	81070	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.47	65	166256	86.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	173.26%	
35) Dibromofluoromethane	6.92	113	165168	43.09	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	86.18%	
50) Toluene-d8	10.47	98	582884	69.48	ug/l	0.04
Spiked Amount	50.000		Recovery	=	138.96%	
62) 4-Bromofluorobenzene	13.57	95	498773	135.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	271.84%	

Target Compounds

						Qvalue
3) Chloromethane	1.83	50	33983m	27.361	ug/l	
17) Carbon Disulfide	3.37	76	33510	8.333	ug/l	97
30) Chloroform	6.66	83	5032221	1470.738	ug/l #	26
31) Cyclohexane	7.05	56	12339778	6809.660	ug/l #	64
39) Methylcyclohexane	8.97	83	16396619	4893.199	ug/l #	78
40) Benzene	7.49	78	2318992	291.001	ug/l	98
52) Toluene	10.58	92	882662	161.794	ug/l	99
67) Ethyl Benzene	12.57	91	8146987	1719.593	ug/l	97
68) m/p-Xylenes	12.72	106	1601800	941.868	ug/l	85
69) o-Xylene	13.08	106	351673	219.163	ug/l	80
73) Isopropylbenzene	13.44	105	18759890	3671.104	ug/l	86
78) n-propylbenzene	13.81	91	18341661	3098.643	ug/l #	75
80) 1,3,5-Trimethylbenzene	13.96	105	1389683	314.080	ug/l	99
83) tert-Butylbenzene	14.20	119	877707	178.833	ug/l	89
84) 1,2,4-Trimethylbenzene	14.25	105	1645401	362.919	ug/l	99
85) sec-Butylbenzene	14.38	105	3702538	723.492	ug/l	96
86) p-Isopropyltoluene	14.50	119	896577m	193.324	ug/l	
89) n-Butylbenzene	14.80	91	3678753	821.926	ug/l	96
95) Naphthalene	16.11	128	469875	200.628	ug/l	98

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

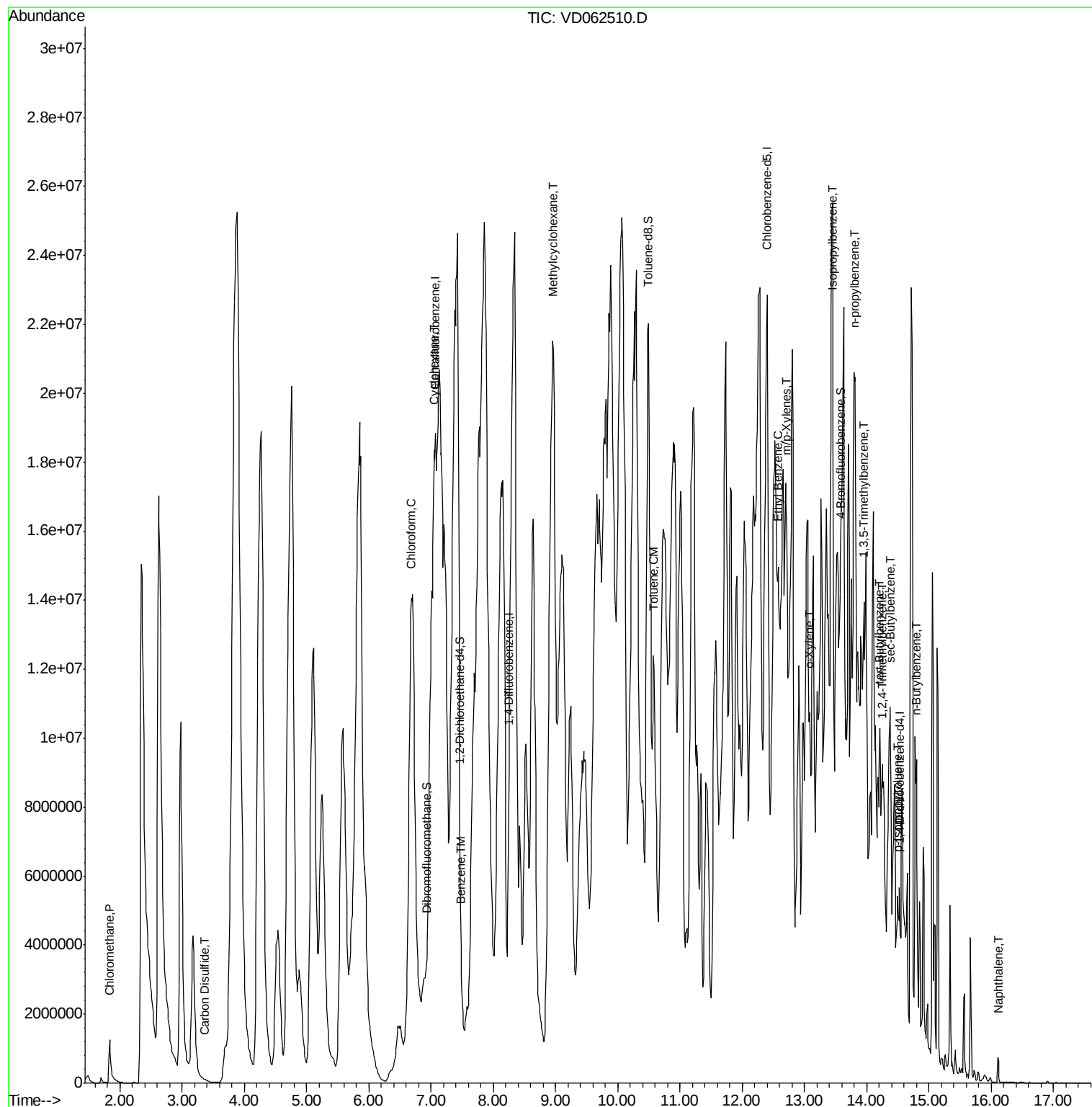
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD052219\
Data File : VD062510.D
Acq On : 22 May 2019 18:35
Operator : VA/AP
Sample : K2996-09
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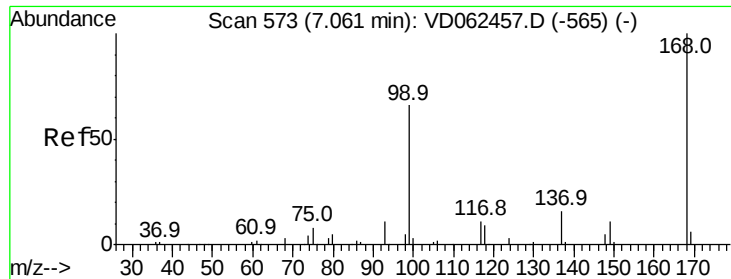
Instrument :
MSVOA_D
ClientSampleId :
P-9(0.5-1.0)

Manual Integrations
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5/23/2019 11:21:42 AM

Quant Time: May 23 04:30:33 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: 7.06 min Scan# 572

Delta R.T. -0.00 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

Instrument :

MSVOA_D

ClientSampleId :

P-9(0.5-1.0)

Tot Ion:168 Resp: 179291

Ion Ratio Lower Upper

168 100

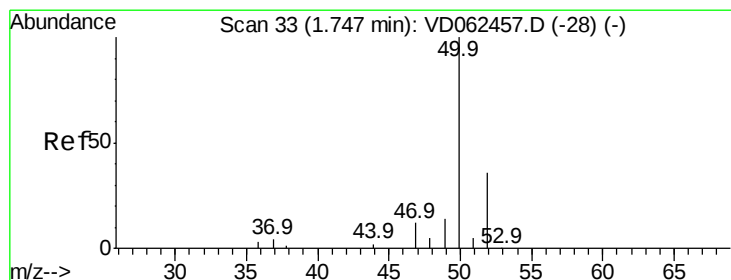
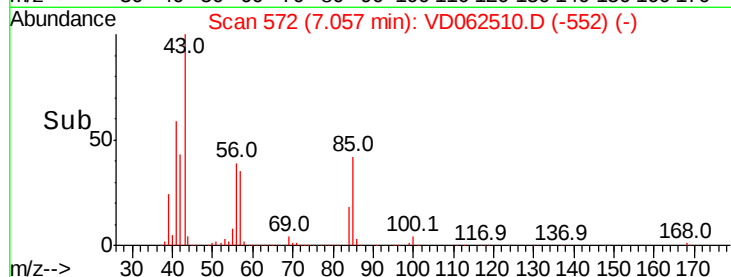
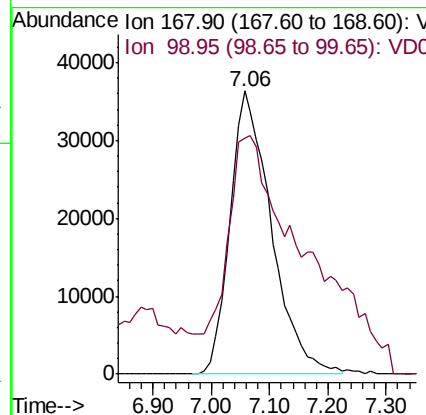
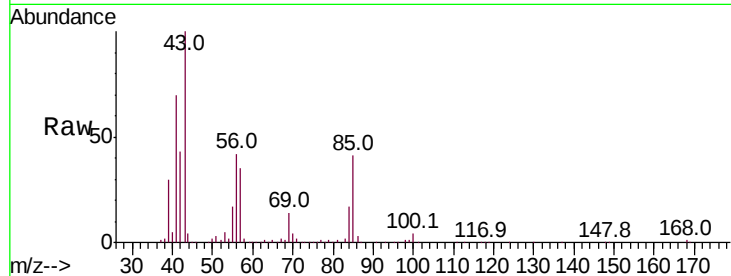
99 83.3 46.5 69.7#

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5/23/2019 11:21:42 AM



#3

Chloromethane

Concen: 27.361 ug/l m

RT: 1.83 min Scan# 41

Delta R.T. 0.08 min

Lab File: VD062510.D

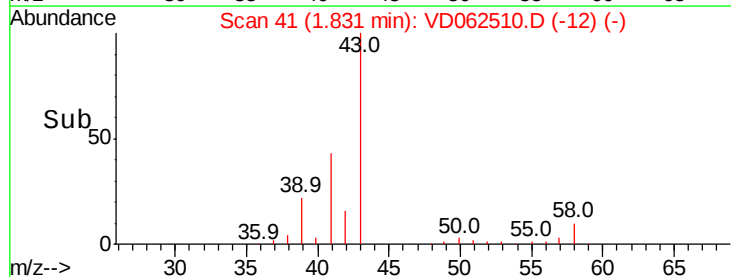
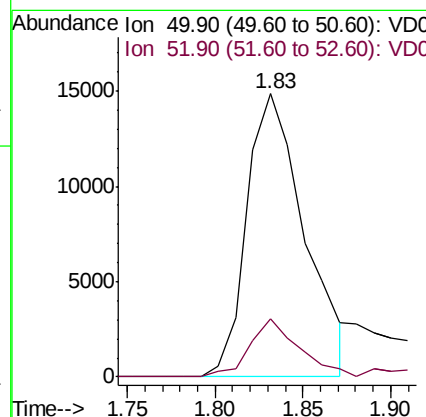
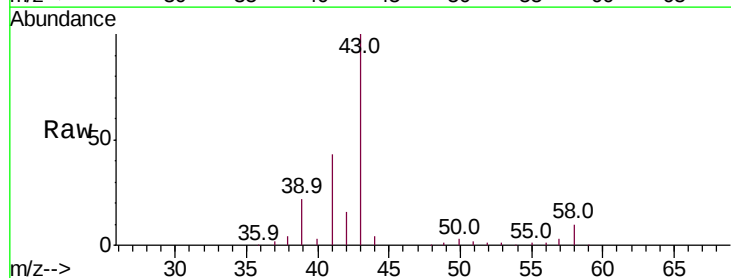
Acq: 22 May 2019 18:35

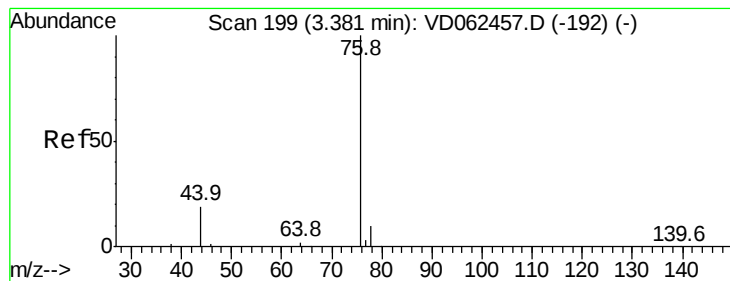
Tgt Ion: 50 Resp: 33983

Ion Ratio Lower Upper

50 100

52 20.5 25.2 37.8#





#17

Carbon Disulfide

Concen: 8.333 ug/l

RT: 3.37 min Scan# 197

Delta R.T. -0.01 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

Instrument :

MSVOA_D

ClientSampleId :

P-9(0.5-1.0)

Tot Ion: 76 Resp: 33510

Ion Ratio Lower Upper

76 100

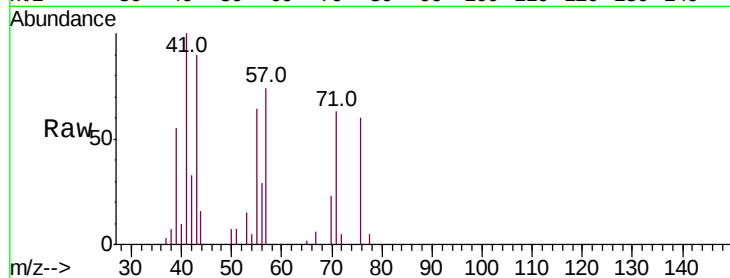
78 8.0 7.2 10.8

Manual Integrations

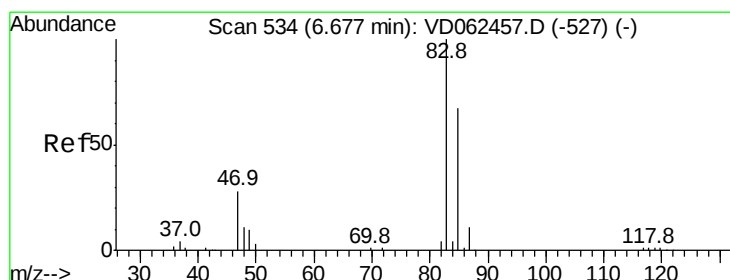
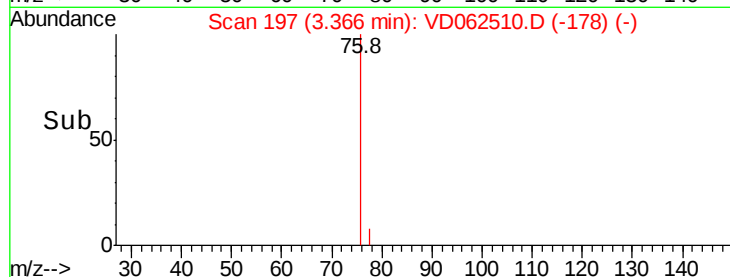
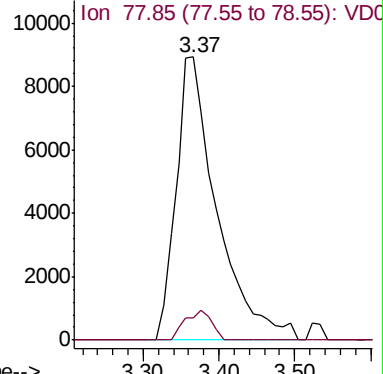
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Abundance Ion 75.85 (75.55 to 76.55): VDC



#30

Chloroform

Concen: 1470.738 ug/l

RT: 6.66 min Scan# 532

Delta R.T. -0.01 min

Lab File: VD062510.D

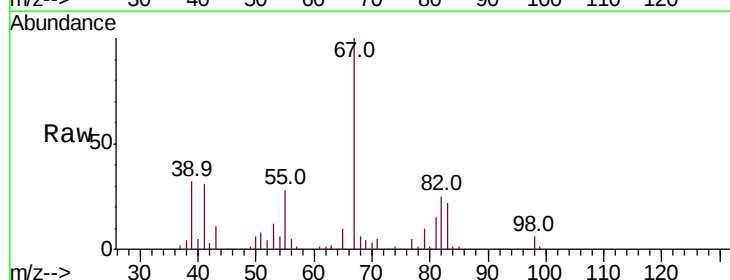
Acq: 22 May 2019 18:35

Tgt Ion: 83 Resp: 5032221

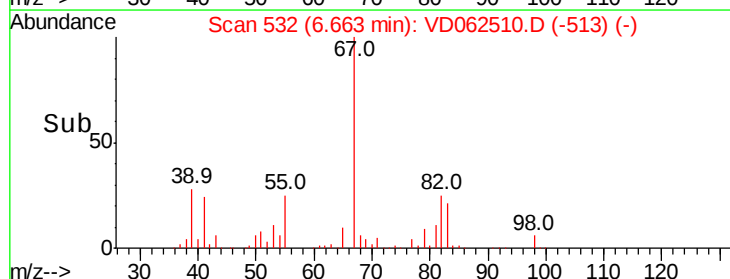
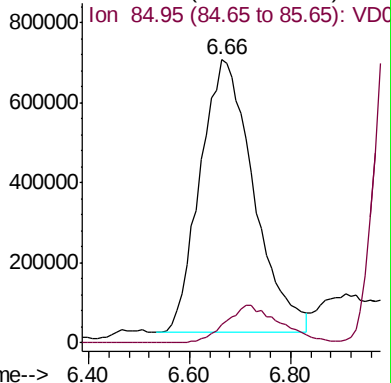
Ion Ratio Lower Upper

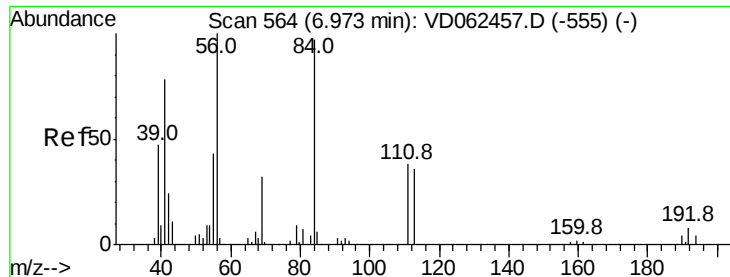
83 100

85 6.5 51.7 77.5#



Abundance Ion 82.95 (82.65 to 83.65): VDC





#31
Cyclohexane
Concen: 6809.660 ug/l
RT: 7.05 min Scan# 571
Delta R.T. 0.07 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

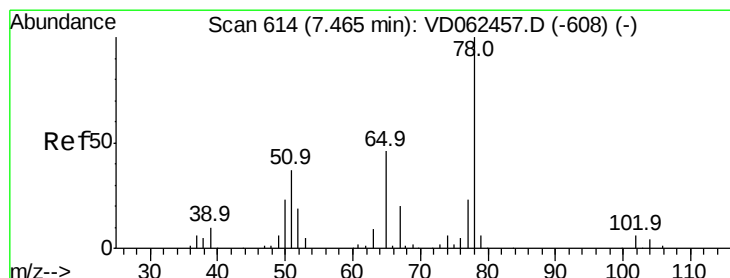
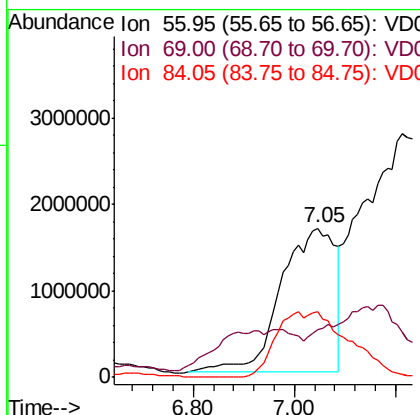
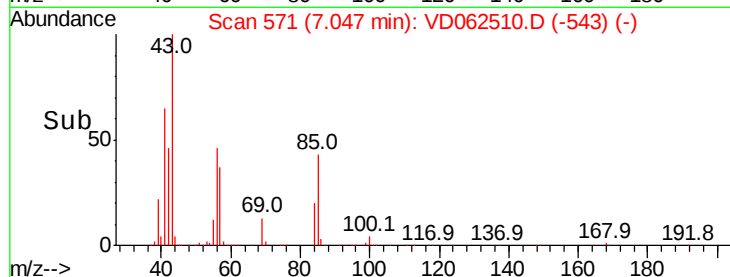
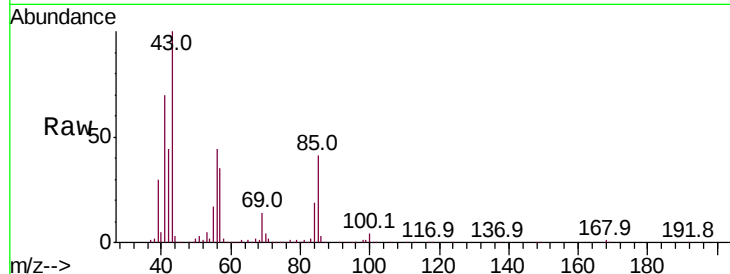
Instrument :
MSVOA_D
ClientSampleId :
P-9(0.5-1.0)

Tot Ion: 56 Resp: 12339778

Ion	Ratio	Lower	Upper
56	100		
69	32.0	25.8	38.6
84	43.8	72.2	108.4

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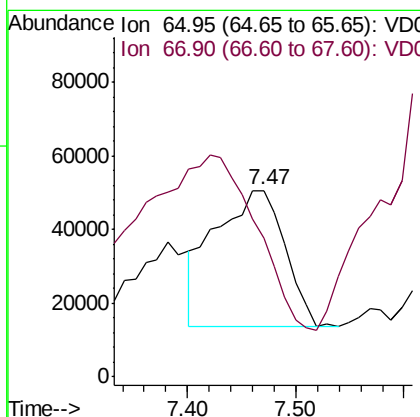
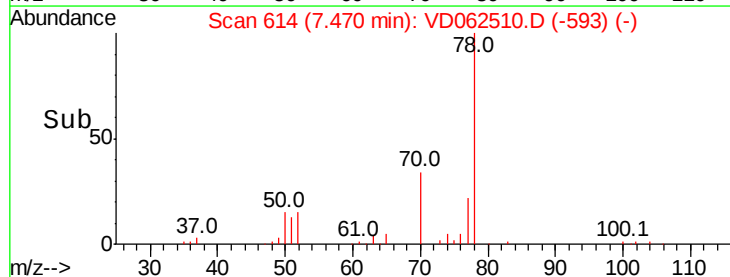
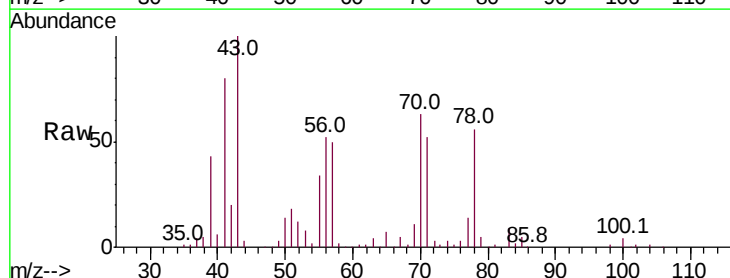
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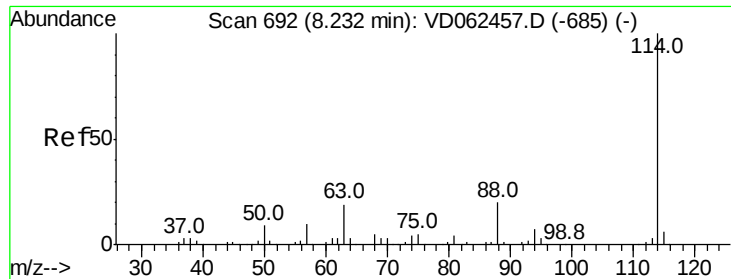


#33
1,2-Dichloroethane-d4
Concen: 86.628 ug/l
RT: 7.47 min Scan# 614
Delta R.T. 0.01 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

Tgt Ion: 65 Resp: 166256

Ion	Ratio	Lower	Upper
65	100		
67	74.6	0.0	98.0





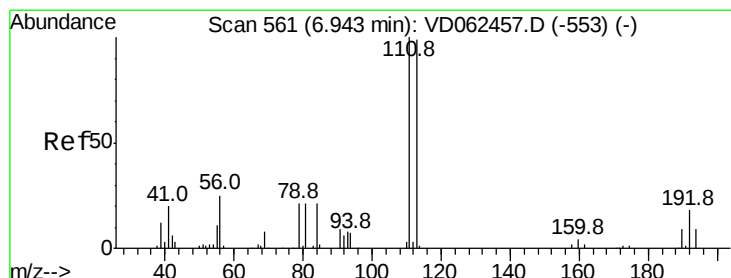
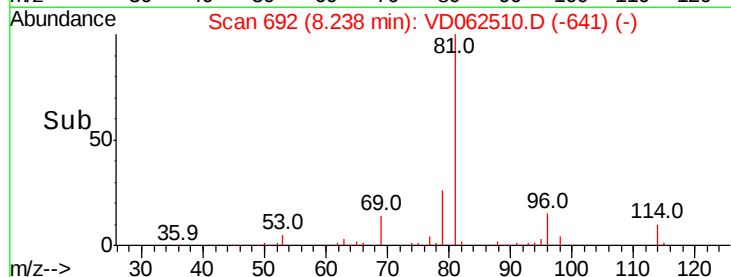
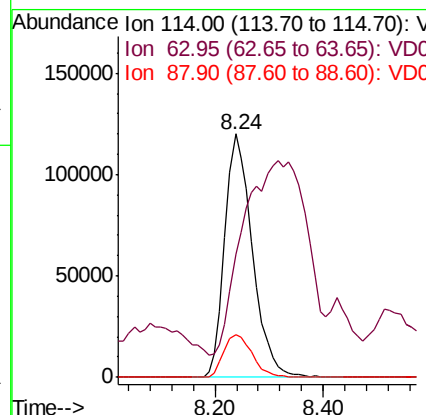
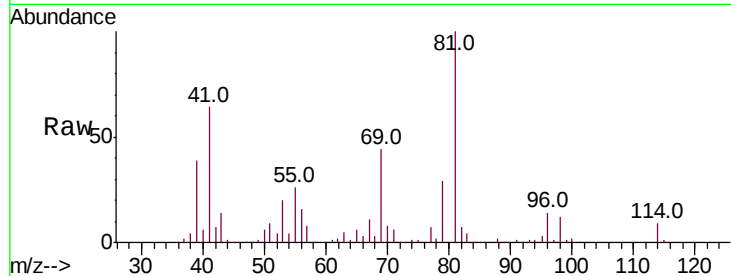
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.24 min Scan# 692
 Delta R.T. 0.01 min
 Lab File: VD062510.D
 Acq: 22 May 2019 18:35

Instrument :
 MSVOA_D
 ClientSampleId :
 P-9(0.5-1.0)

Tot Ion	Ratio	Lower	Upper
114	100		
63	50.6	0.0	32.4#
88	17.7	0.0	33.6

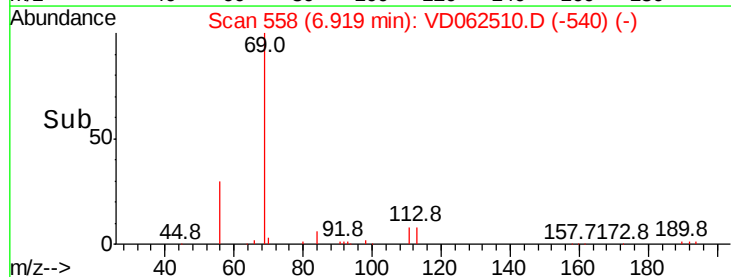
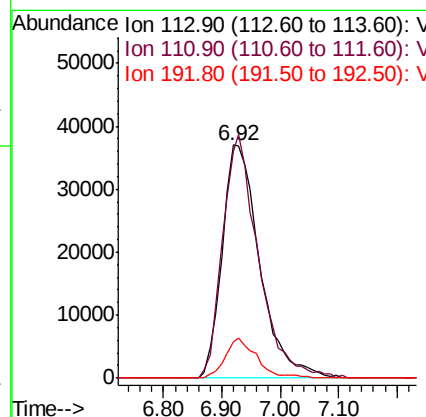
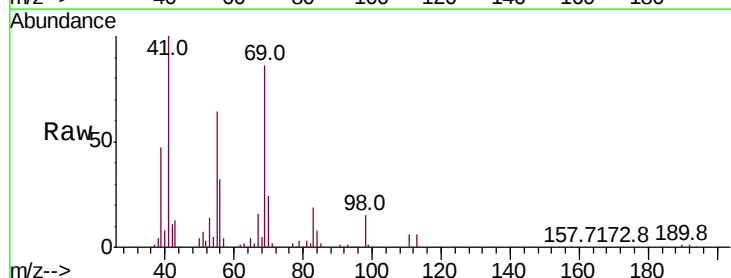
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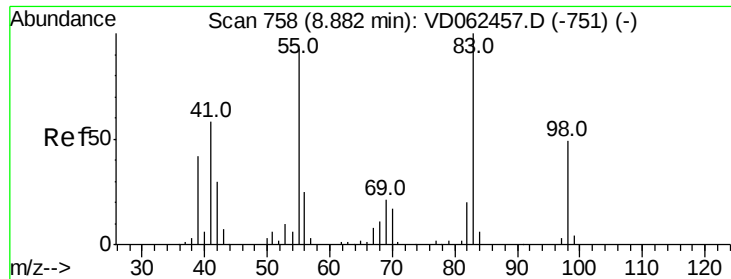
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#35
 Dibromofluoromethane
 Concen: 43.086 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. -0.02 min
 Lab File: VD062510.D
 Acq: 22 May 2019 18:35

Tgt Ion	Ratio	Lower	Upper
113	100		
111	97.6	78.5	117.7
192	15.5	13.0	19.4





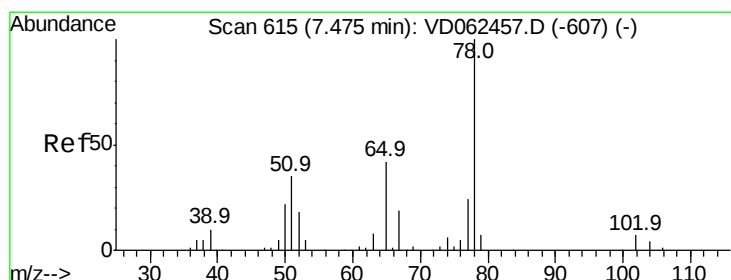
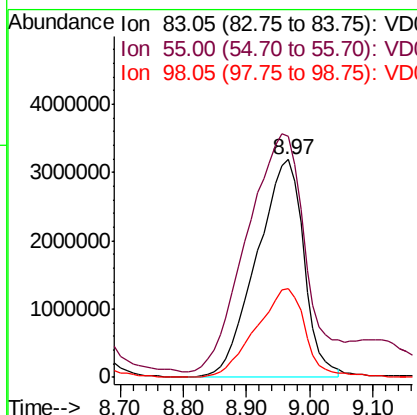
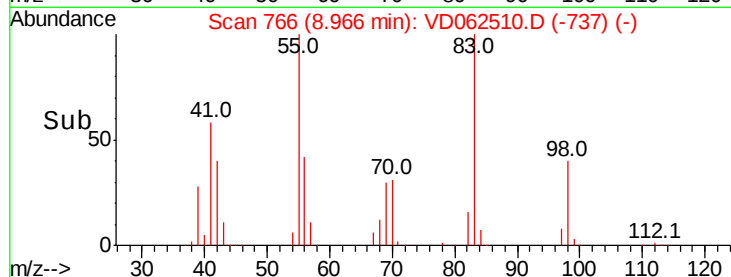
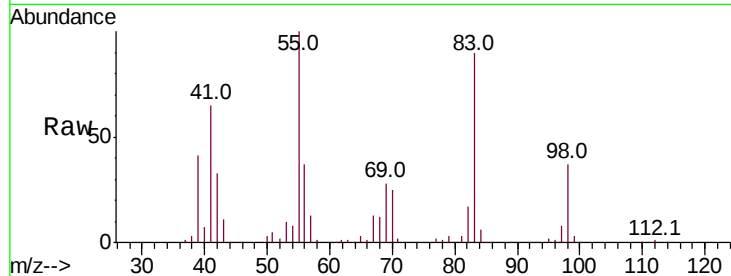
#39
Methvlcvclohexane
Concen: 4893.199 ug/l
RT: 8.97 min Scan# 766
Delta R.T. 0.08 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

Instrument :
MSVOA_D
ClientSampleId :
P-9(0.5-1.0)

Tot Ion: 83 Resp:16396619
Ion Ratio Lower Upper
83 100
55 110.8 68.2 102.4#
98 40.8 38.2 57.4

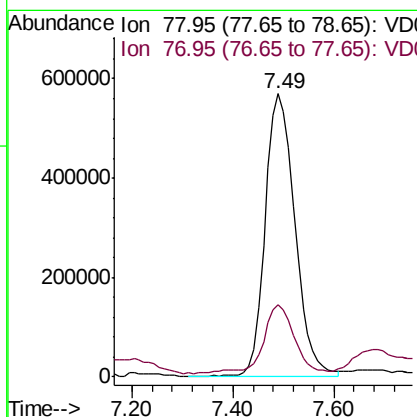
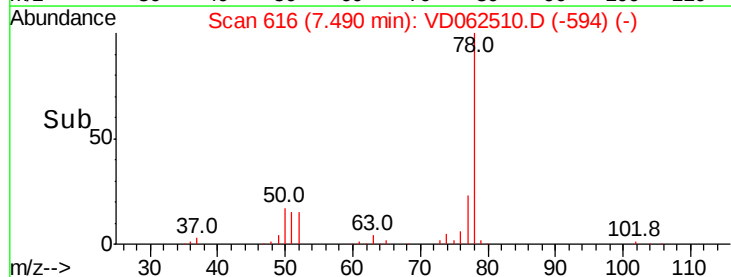
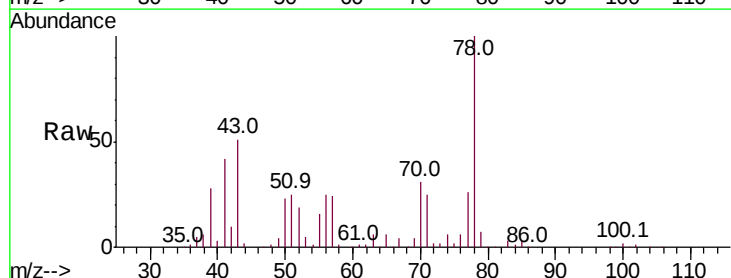
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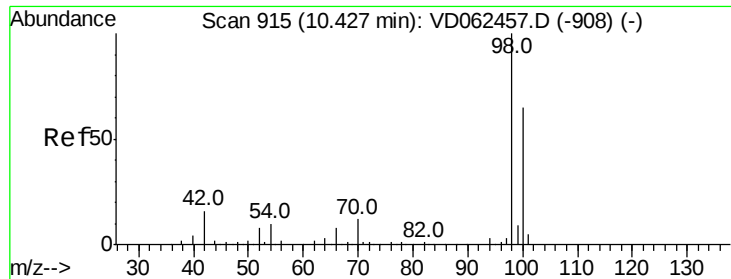
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#40
Benzene
Concen: 291.001 ug/l
RT: 7.49 min Scan# 616
Delta R.T. 0.02 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

Tgt Ion: 78 Resp: 2318992
Ion Ratio Lower Upper
78 100
77 25.6 19.7 29.5





#50

Toluene-d8

Concen: 69.481 ug/l

RT: 10.47 min Scan# 919

Delta R.T. 0.04 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

Instrument :

MSVOA_D

ClientSampleId :

P-9(0.5-1.0)

Tot Ion: 98 Resp: 582884

Ion Ratio Lower Upper

98 100

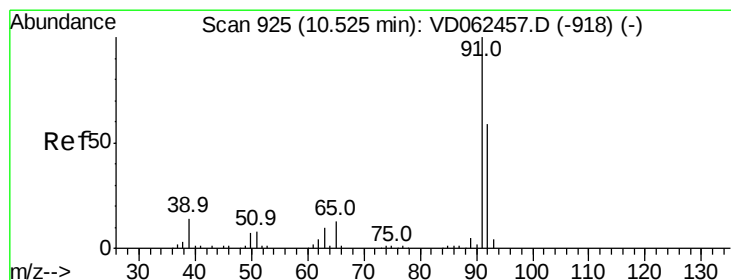
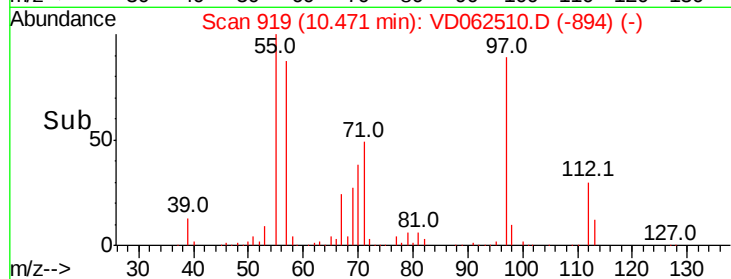
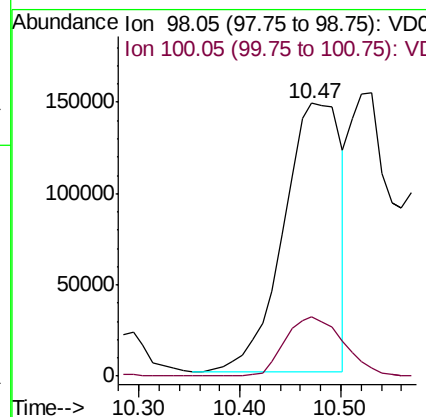
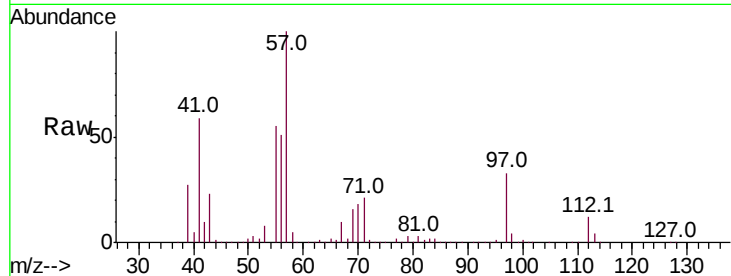
100 21.8 53.8 80.8#

Manual Integrations

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5/23/2019 11:21:42 AM



#52

Toluene

Concen: 161.794 ug/l

RT: 10.58 min Scan# 930

Delta R.T. 0.05 min

Lab File: VD062510.D

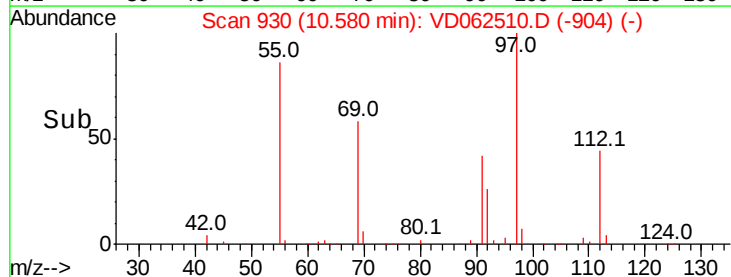
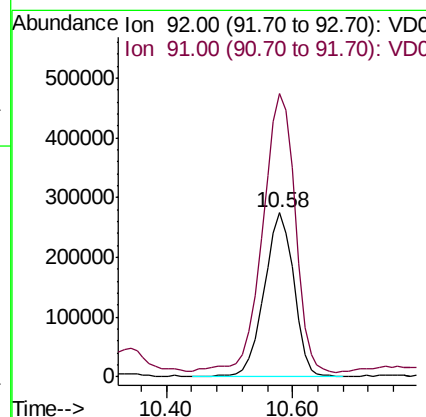
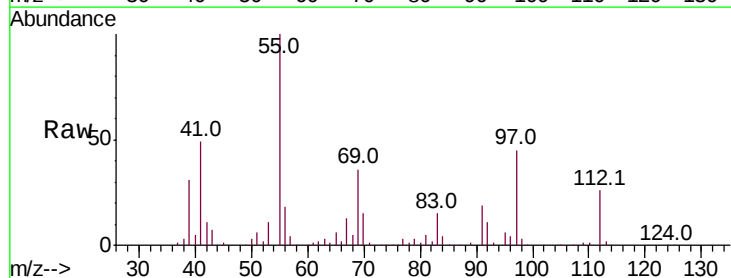
Acq: 22 May 2019 18:35

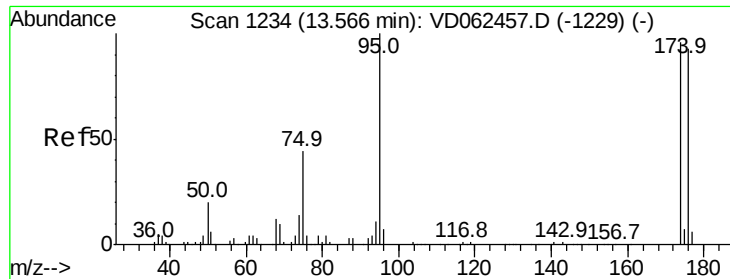
Tgt Ion: 92 Resp: 882662

Ion Ratio Lower Upper

92 100

91 172.5 136.6 204.8





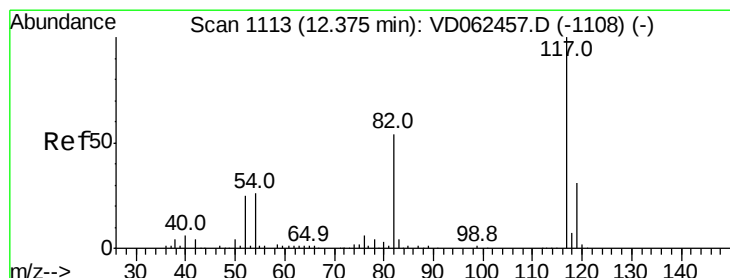
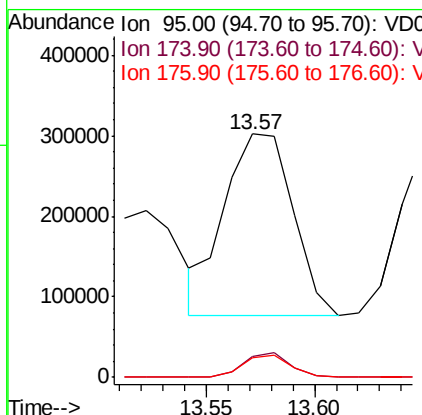
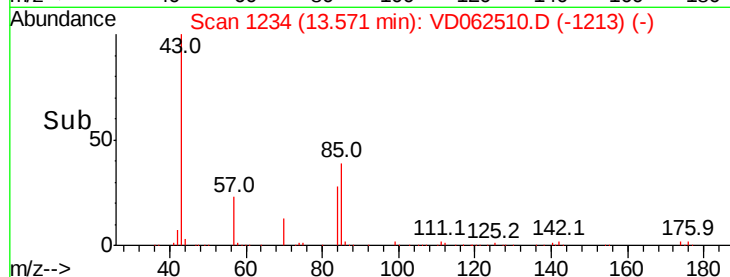
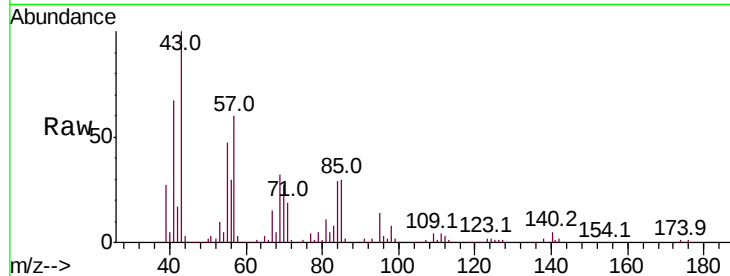
#62
4-Bromofluorobenzene
Concen: 135.917 ug/l
RT: 13.57 min Scan# 1234
Delta R.T. 0.01 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

Instrument :
MSVOA_D
ClientSampleId :
P-9(0.5-1.0)

Tot Ion	Ratio	Resp	Lower	Upper
95	100	498773		
174	8.4	0.0	181.8	
176	8.2	0.0	174.4	

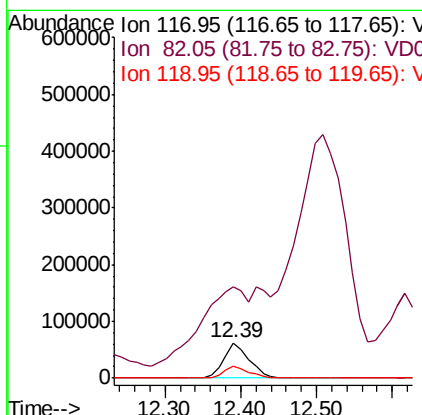
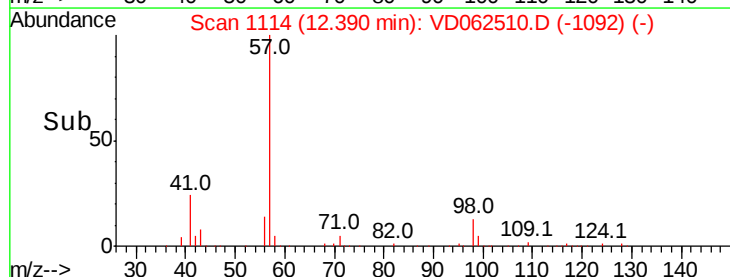
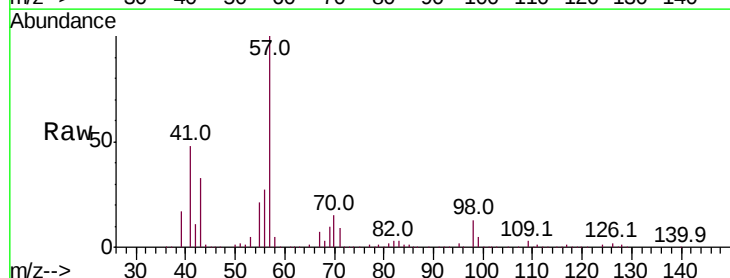
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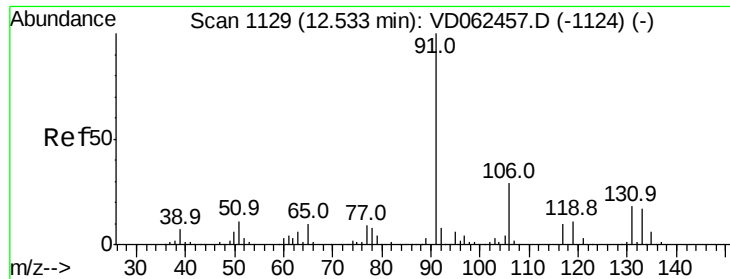
MMDadoda
5/23/2019 11:21:42 AM



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.39 min Scan# 1114
Delta R.T. 0.02 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	143034		
82	260.7	36.2	54.2#	
119	33.3	26.2	39.4	





#67

Ethyl Benzene

Concen: 1719.593 ug/l

RT: 12.57 min Scan# 1132

Delta R.T. 0.03 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

Instrument :

MSVOA_D

ClientSampleId :

P-9(0.5-1.0)

Tot Ion: 91 Resp: 8146987

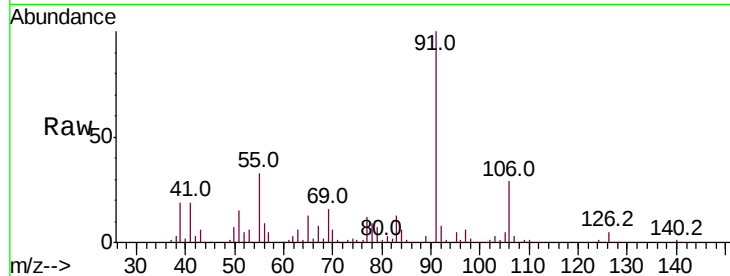
Ion Ratio Lower Upper

91 100

106 29.1 24.7 37.1

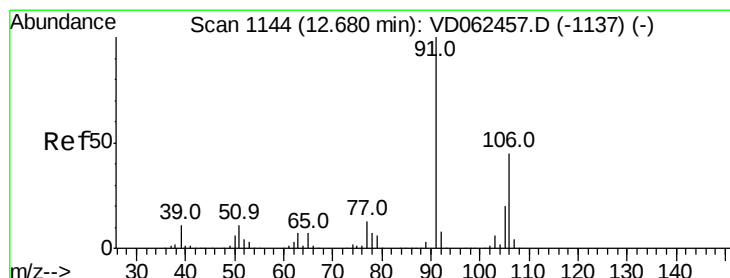
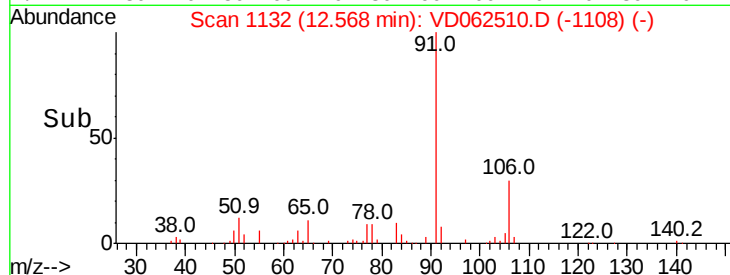
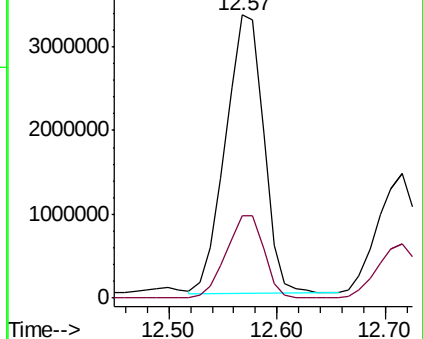
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Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 106.05 (105.75 to 106.75): VDC



#68

m/p-Xylenes

Concen: 941.868 ug/l

RT: 12.72 min Scan# 1147

Delta R.T. 0.03 min

Lab File: VD062510.D

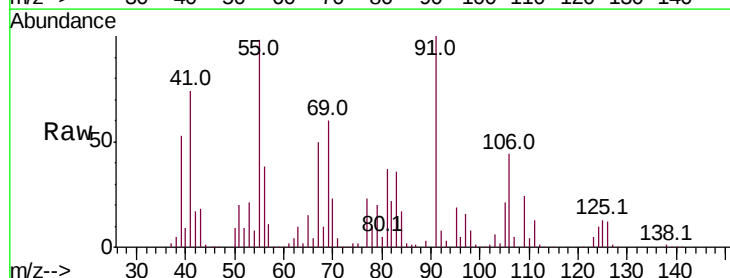
Acq: 22 May 2019 18:35

Tgt Ion:106 Resp: 1601800

Ion Ratio Lower Upper

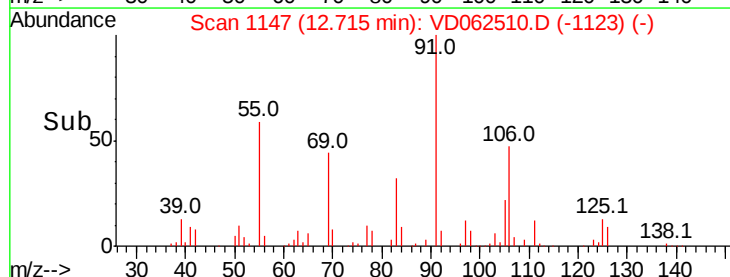
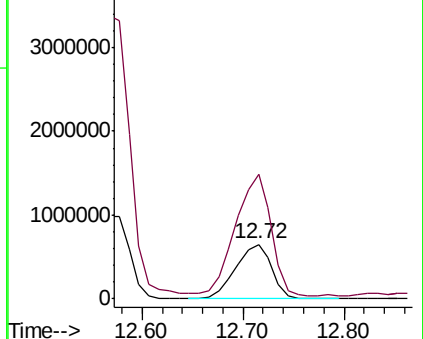
106 100

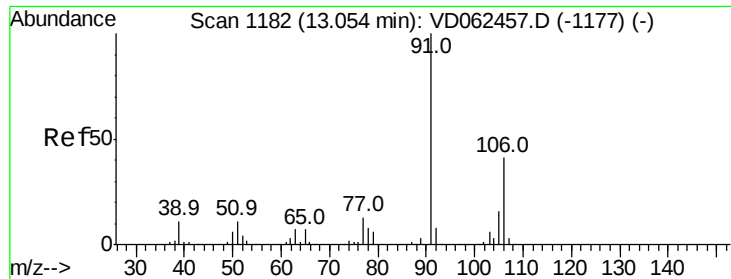
91 228.7 164.0 246.0



Abundance Ion 106.05 (105.75 to 106.75): VDC

Ion 91.00 (90.70 to 91.70): VDC





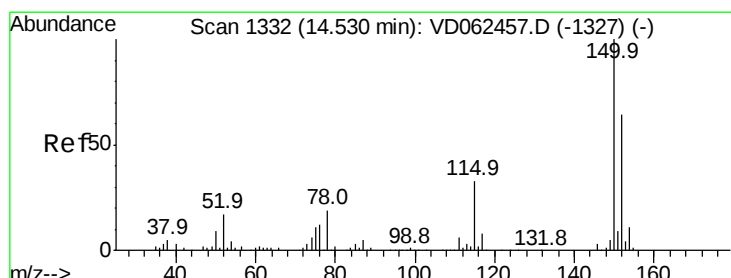
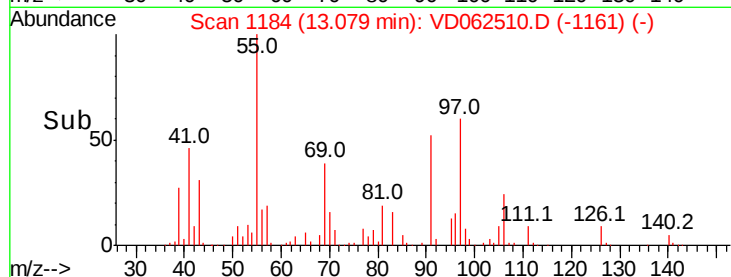
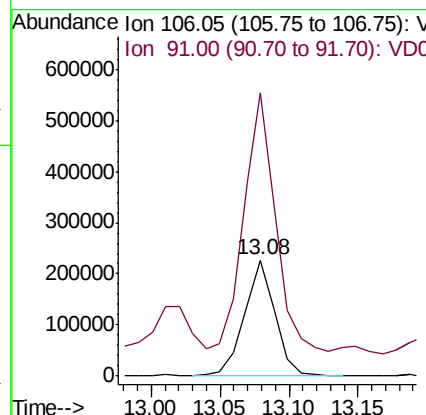
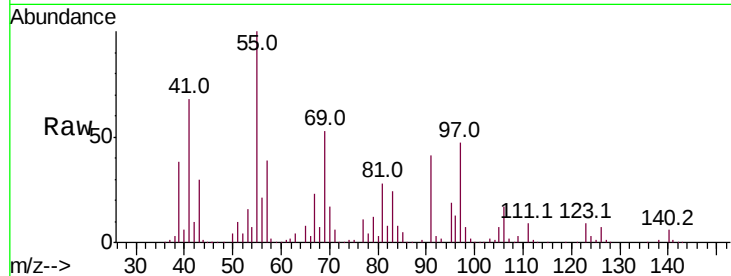
#69
o-Xylene
Concen: 219.163 ug/l
RT: 13.08 min Scan# 1184
Delta R.T. 0.03 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

Instrument :
MSVOA_D
ClientSampled :
P-9(0.5-1.0)

Tot Ion:106 Resp: 351673
Ion Ratio Lower Upper
106 100
91 244.3 106.7 319.9

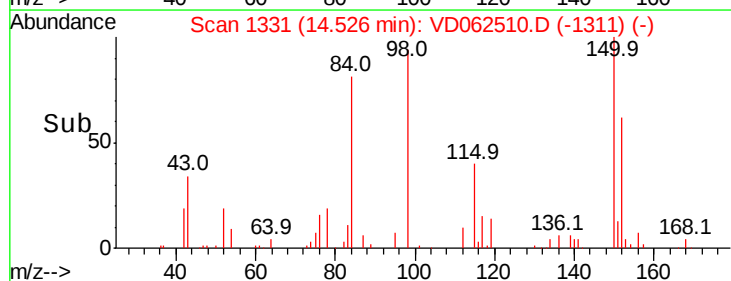
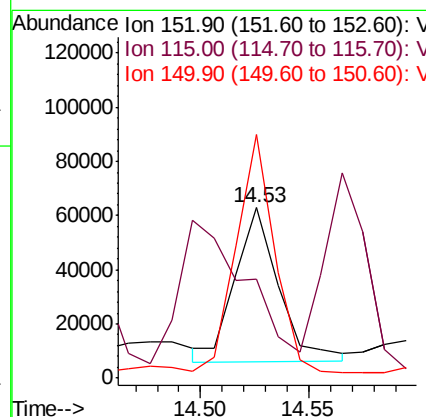
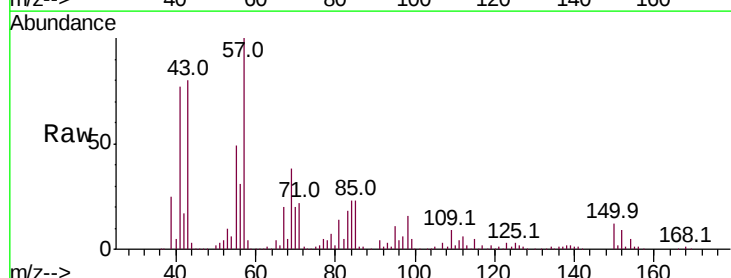
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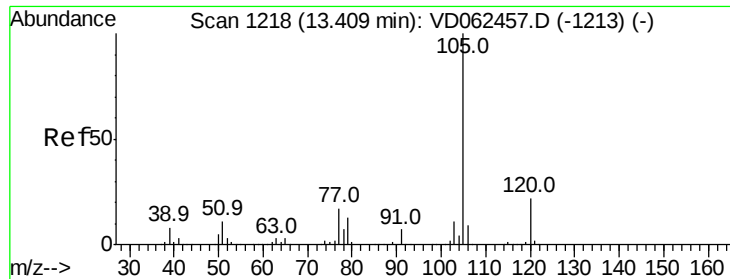
MMDadoda
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1331
Delta R.T. -0.00 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

Tgt Ion:152 Resp: 81070
Ion Ratio Lower Upper
152 100
115 58.1 30.9 92.7
150 142.8 0.0 314.8





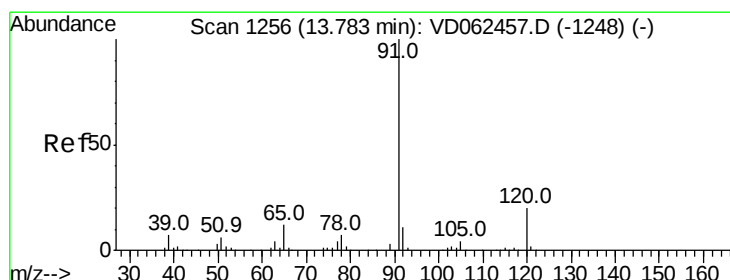
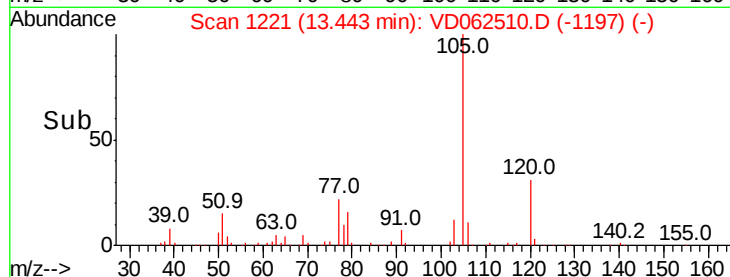
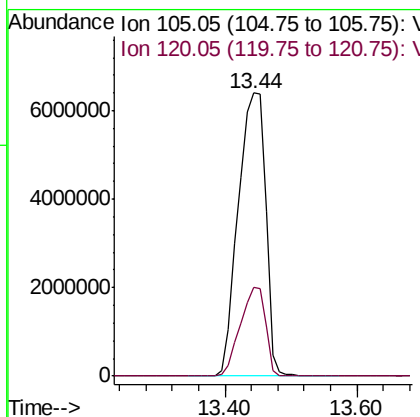
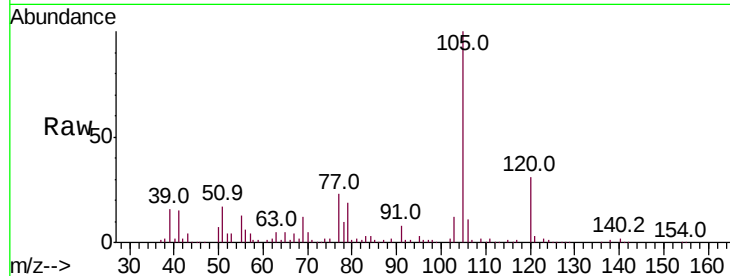
#73
Isopropylbenzene
Concen: 3671.104 ug/l
RT: 13.44 min Scan# 1221
Delta R.T. 0.03 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

Instrument :
MSVOA_D
ClientSampleId :
P-9(0.5-1.0)

Tot Ion:105 Resp:18759890
Ion Ratio Lower Upper
105 100
120 31.2 12.0 36.1

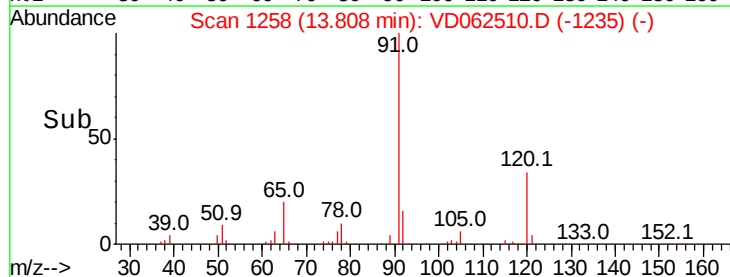
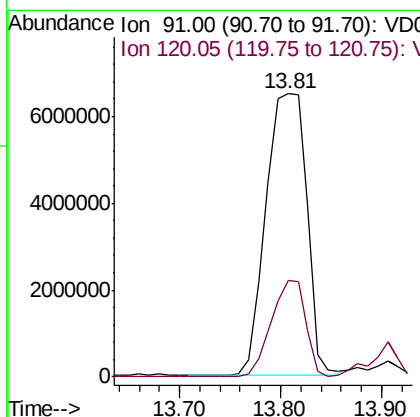
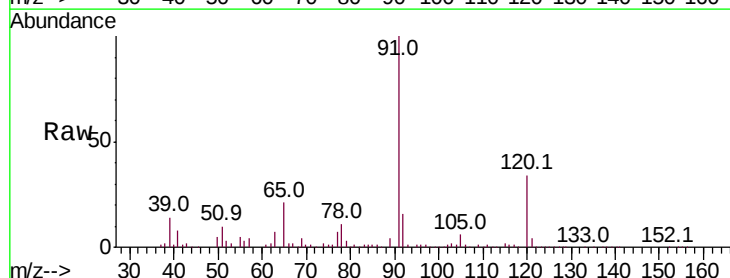
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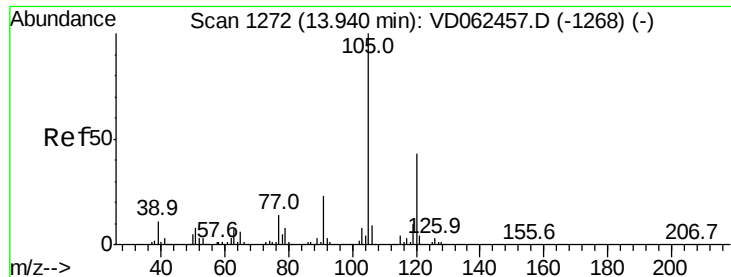
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#78
n-propylbenzene
Concen: 3098.643 ug/l
RT: 13.81 min Scan# 1258
Delta R.T. 0.03 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

Tgt Ion: 91 Resp:18341661
Ion Ratio Lower Upper
91 100
120 34.2 11.1 33.1#





#80

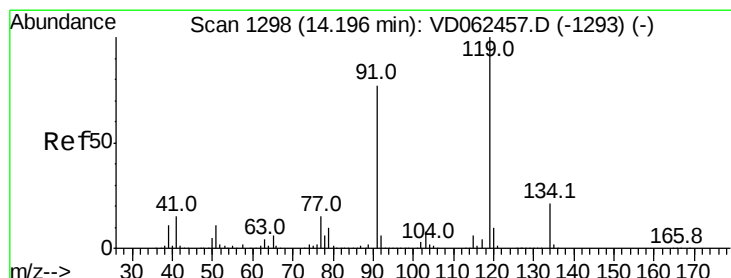
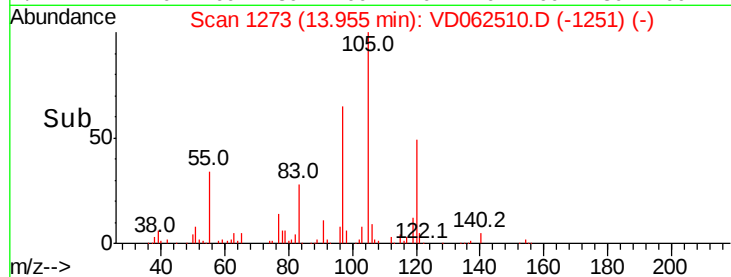
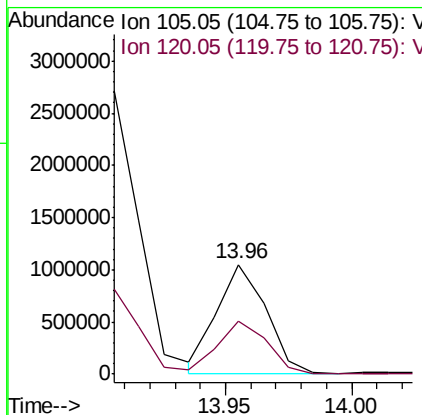
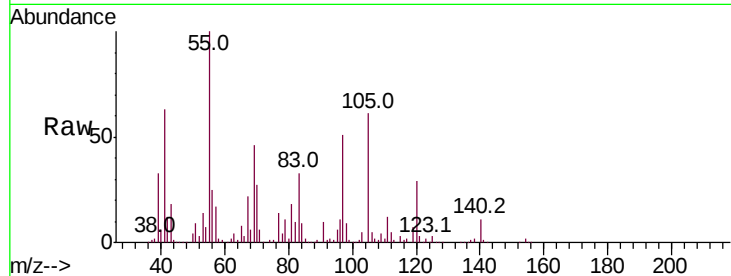
1,3,5-Trimethylbenzene
Concen: 314.080 ug/l
RT: 13.96 min Scan# 1273
Delta R.T. 0.02 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

Instrument :
MSVOA_D
ClientSampleId :
P-9(0.5-1.0)

Tot Ion:105 Resp: 1389683
Ion Ratio Lower Upper
105 100
120 48.4 24.0 72.0

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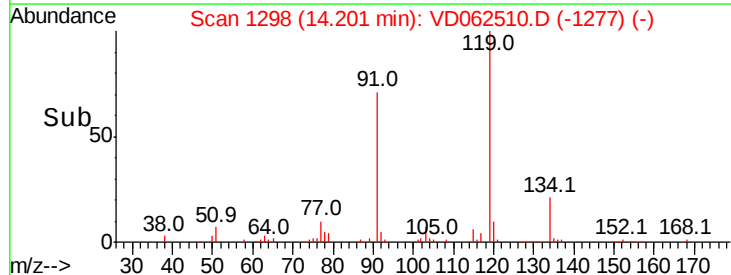
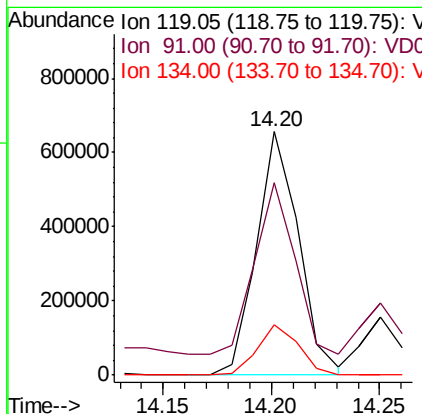
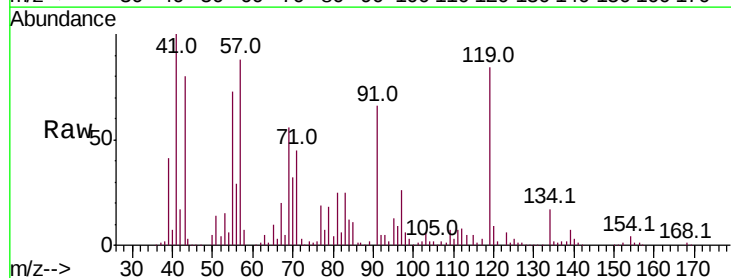
MMDadoda
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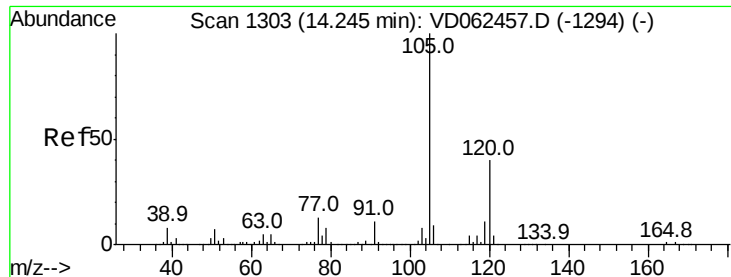


#83

tert-Butylbenzene
Concen: 178.833 ug/l
RT: 14.20 min Scan# 1298
Delta R.T. 0.01 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

Tgt Ion:119 Resp: 877707
Ion Ratio Lower Upper
119 100
91 78.9 34.2 102.6
134 20.5 12.0 36.0





#84

1,2,4-Trimethylbenzene

Concen: 362.919 ug/l

RT: 14.25 min Scan# 1303

Delta R.T. 0.01 min

Lab File: VD062510.D

Acq: 22 May 2019 18:35

Instrument :

MSVOA_D

ClientSampleId :

P-9(0.5-1.0)

Tot Ion:105 Resp: 1645401

Ion Ratio Lower Upper

105 100

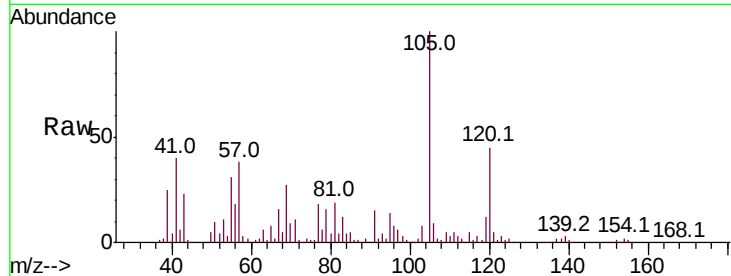
120 45.3 23.1 69.2

Manual Integrations

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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

3000000

2500000

2000000

1500000

1000000

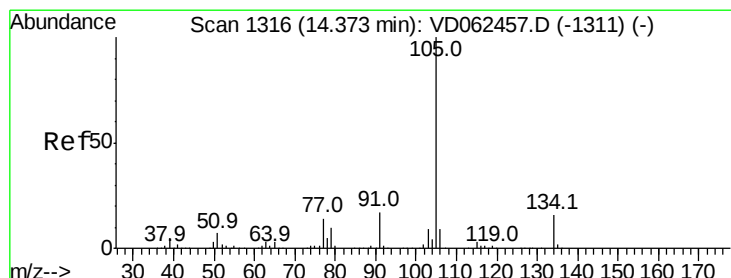
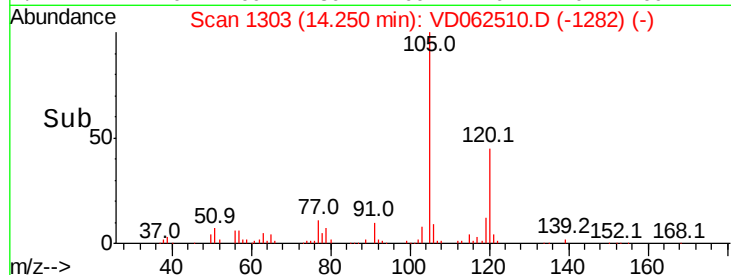
500000

0

14.25

14.20 14.25 14.30 14.35

Time-->



#85

sec-Butylbenzene

Concen: 723.492 ug/l

RT: 14.38 min Scan# 1316

Delta R.T. 0.01 min

Lab File: VD062510.D

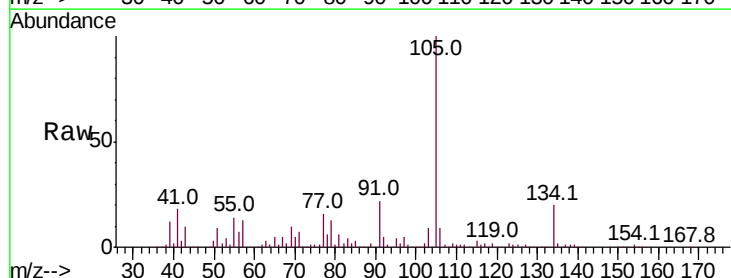
Acq: 22 May 2019 18:35

Tgt Ion:105 Resp: 3702538

Ion Ratio Lower Upper

105 100

134 19.6 8.9 26.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

3000000

2500000

2000000

1500000

1000000

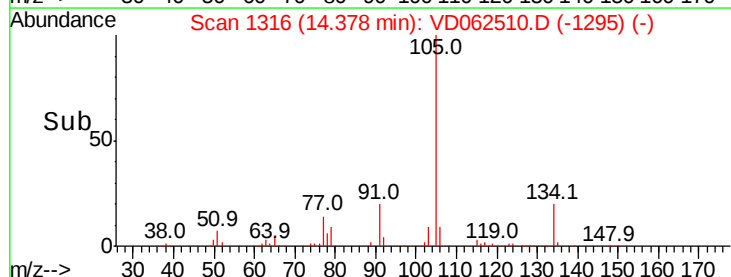
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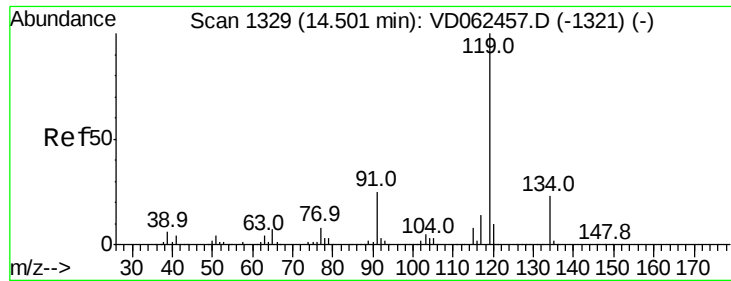
0

14.38

14.30 14.35 14.40 14.45

Time-->





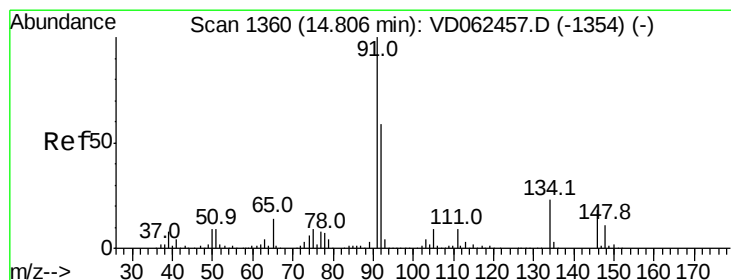
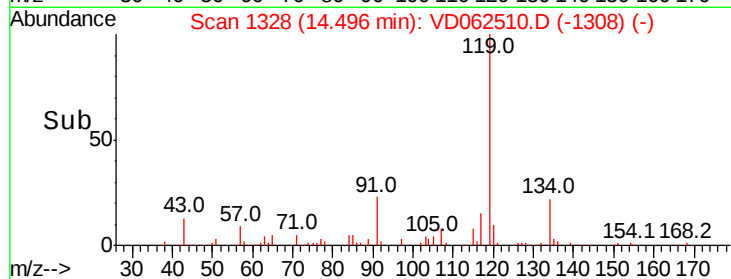
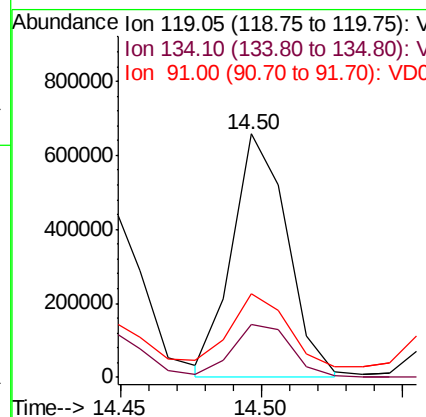
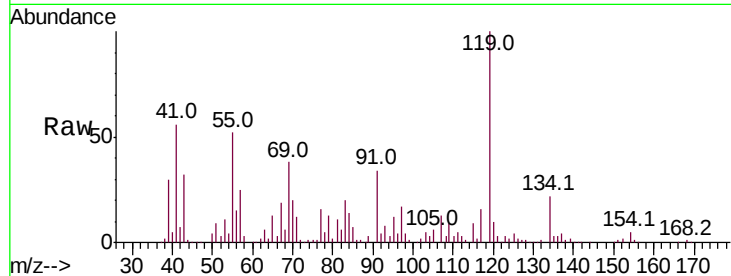
#86
p-Isopropyltoluene
Concen: 193.324 ug/l m
RT: 14.50 min Scan# 1328
Delta R.T. -0.00 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

Instrument :
MSVOA_D
ClientSampleId :
P-9(0.5-1.0)

Tot Ion	Ratio	Resp	Lower	Upper
119	100	896577		
134	21.9	12.8	38.3	
91	34.4	10.7	32.1	

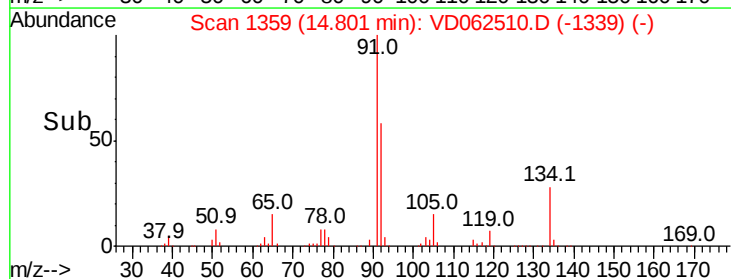
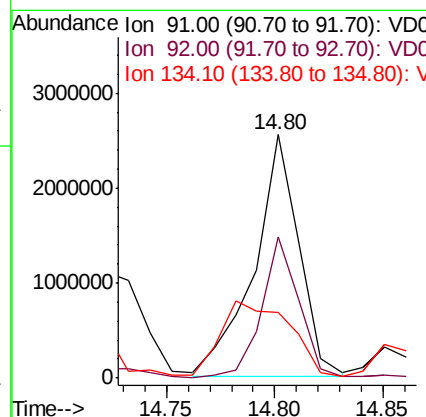
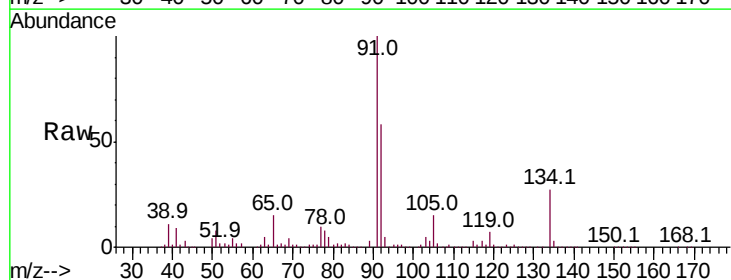
Manual Integrations
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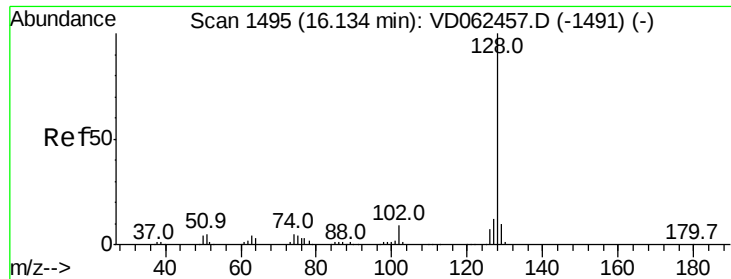
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#89
n-Butylbenzene
Concen: 821.926 ug/l
RT: 14.80 min Scan# 1359
Delta R.T. -0.00 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	3678753		
92	57.9	30.3	91.0	
134	27.2	14.5	43.6	





#95
Naphthalene
Concen: 200.628 ug/l
RT: 16.11 min Scan# 1492
Delta R.T. -0.02 min
Lab File: VD062510.D
Acq: 22 May 2019 18:35

Instrument :
MSVOA_D
ClientSampleId :
P-9(0.5-1.0)

Tot Ion	Ratio	Resp Lower	Upper
128	100		
127	13.3	9.8	14.8
129	10.5	8.8	13.2

Manual Integrations
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