

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111919\
 Data File : VD064284.D
 Acq On : 19 Nov 2019 12:32
 Operator : VA/SY
 Sample : K5818-03RE
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 40180

Manual Integrations
 APPROVED

MMDadoda
 11/20/2019 9:56:56 AM

Quant Time: Nov 20 08:36:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 12 02:43:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	427122	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	750597	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	253082	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	32419	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.34	65	317953	90.51	ug/l	0.00
Spiked Amount 50.000			Recovery	=	181.02%	
35) Dibromofluoromethane	7.92	113	304611	70.70	ug/l	0.00
Spiked Amount 50.000			Recovery	=	141.40%	
50) Toluene-d8	10.34	98	484460	29.81	ug/l	0.00
Spiked Amount 50.000			Recovery	=	59.62%	
62) 4-Bromofluorobenzene	12.64	95	66990	11.90	ug/l	0.00
Spiked Amount 50.000			Recovery	=	23.80%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.24	59	38748	157.926	ug/l #	69
16) Acetone	4.17	43	202108	242.863	ug/l	98
17) Carbon Disulfide	4.40	76	23535	2.106	ug/l	97
25) 2-Butanone	7.23	43	31024	28.856	ug/l	96
30) Chloroform	7.71	83	27589	3.945	ug/l	93
31) Cyclohexane	7.98	56	112952	16.383	ug/l	95
39) Methylcyclohexane	9.36	83	220390	25.143	ug/l	95
40) Benzene	8.35	78	116153	6.135	ug/l	95
51) 4-Methyl-2-Pentanone	10.24	43	109942	38.101	ug/l	99
52) Toluene	10.41	92	580197	46.605	ug/l	100
67) Ethyl Benzene	11.75	91	462210	49.652	ug/l	99
68) m/p-Xylenes	11.86	106	535211	149.996	ug/l	100
69) o-Xylene	12.18	106	216223	65.339	ug/l	100
73) Isopropylbenzene	12.48	105	105547	44.356	ug/l	99
78) n-propylbenzene	12.83	91	244425	89.906	ug/l	95
80) 1,3,5-Trimethylbenzene	12.97	105	255384	130.613	ug/l	100
84) 1,2,4-Trimethylbenzene	13.28	105	777085	402.559	ug/l	100
85) sec-Butylbenzene	13.41	105	110621	47.771	ug/l	83
86) p-Isopropyltoluene	13.53	119	153132	69.559	ug/l	100
89) n-Butylbenzene	13.86	91	91595m	46.053	ug/l	
95) Naphthalene	15.41	128	21960	19.120	ug/l #	94

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

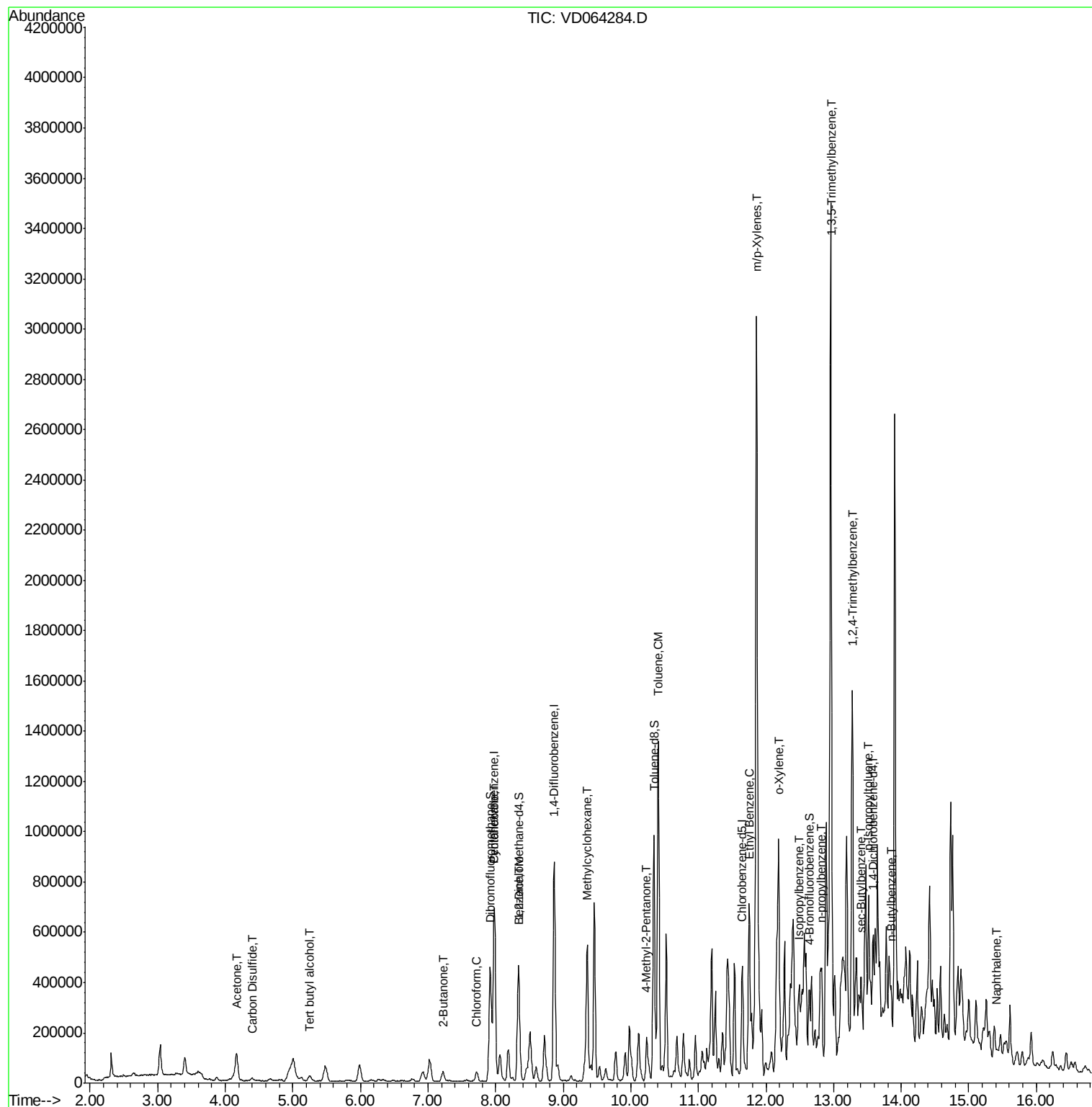
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD111919\
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Quant Title : SW846 8260
QLast Update : Tue Nov 12 02:43:24 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064284.D

Acq: 19 Nov 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

40180

Tot Ion:168 Resp: 427122

Ion Ratio Lower Upper

168 100

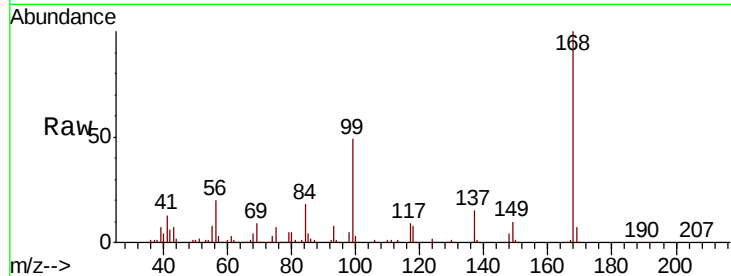
99 48.9 41.6 62.4

Manual Integrations

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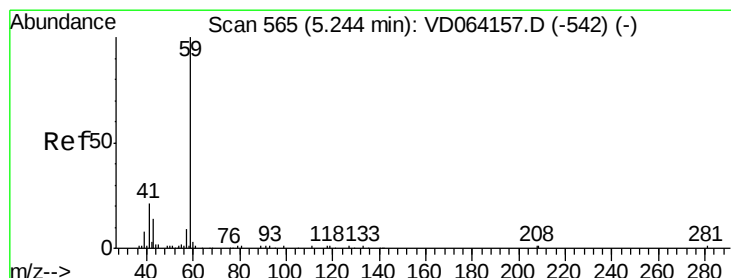
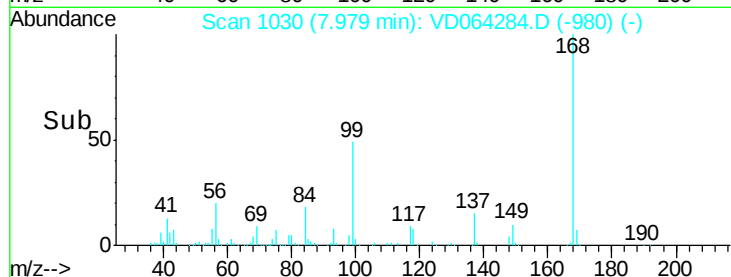
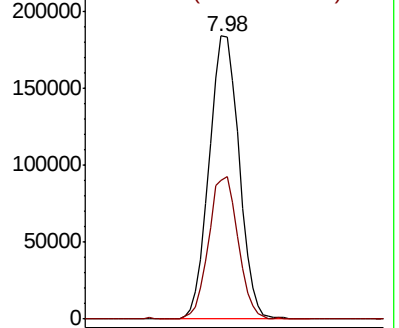
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#11

Tert butyl alcohol

Concen: 157.926 ug/l

RT: 5.24 min Scan# 565

Delta R.T. 0.00 min

Lab File: VD064284.D

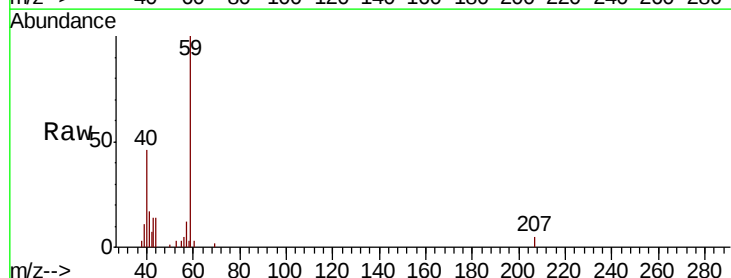
Acq: 19 Nov 2019 12:32

Tgt Ion: 59 Resp: 38748

Ion Ratio Lower Upper

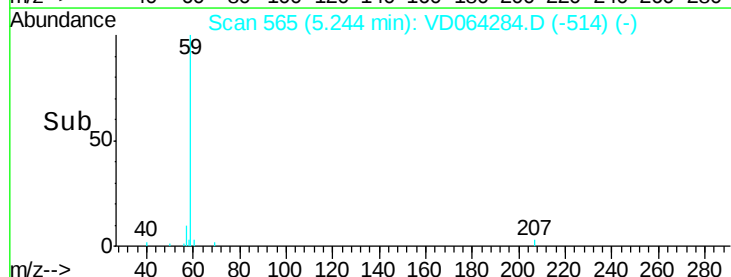
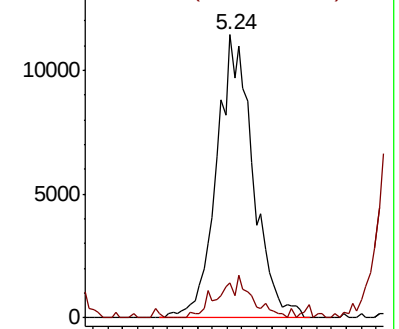
59 100

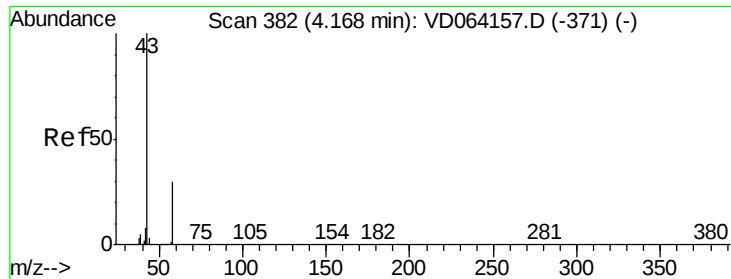
57 0.0 9.4 14.2#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





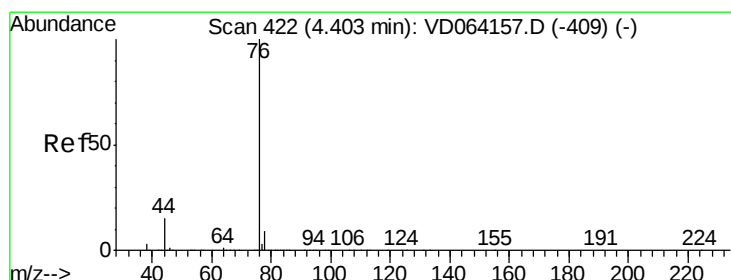
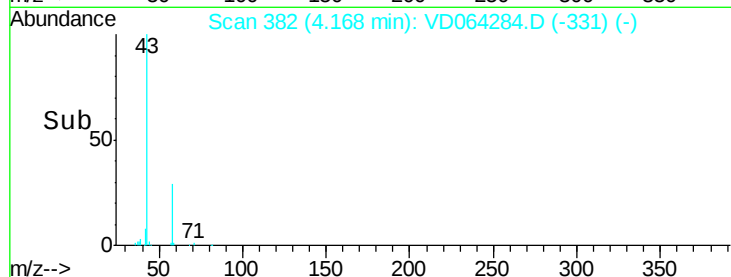
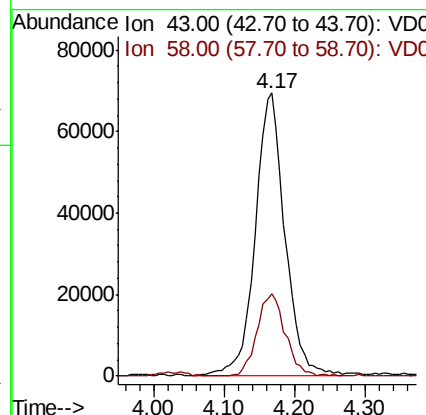
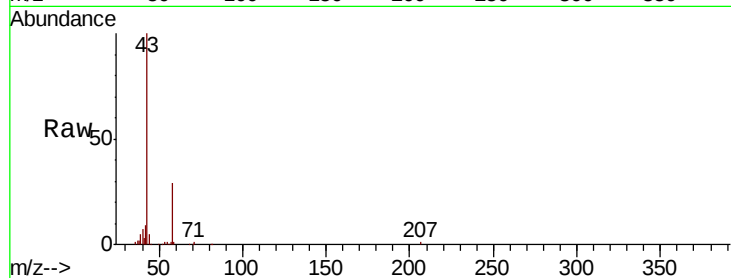
#16
Acetone
Concen: 242.863 ug/l
RT: 4.17 min Scan# 382
Delta R.T. -0.00 min
Lab File: VD064284.D
Acq: 19 Nov 2019 12:32

Instrument :
MSVOA_D
ClientSampleId :
40180

Tot Ion	43	Resp	202108
Ion Ratio	100	Lower	Upper
43	100		
58	28.9	24.1	36.1

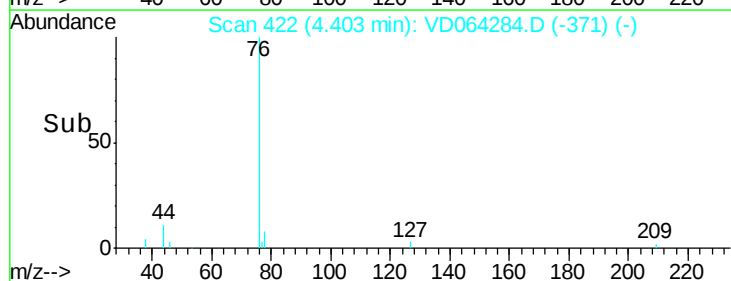
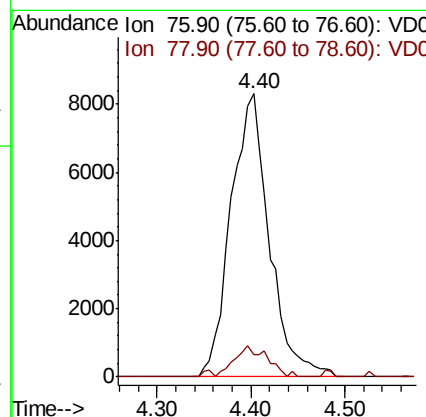
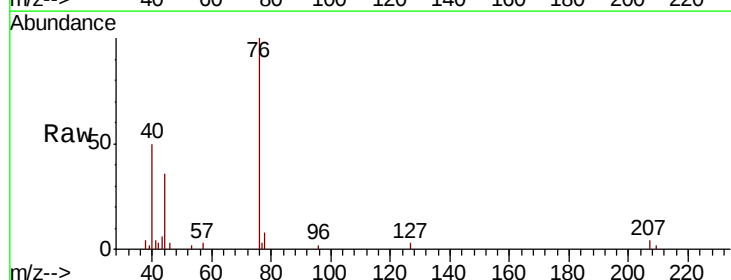
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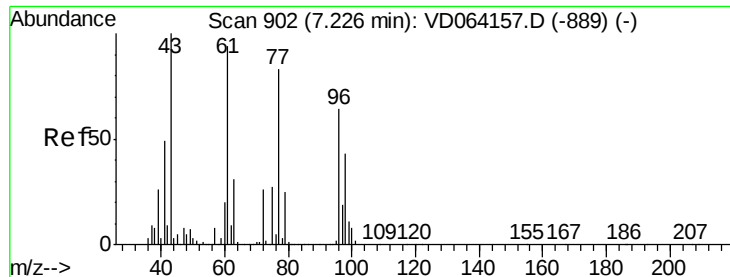
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#17
Carbon Disulfide
Concen: 2.106 ug/l
RT: 4.40 min Scan# 422
Delta R.T. -0.00 min
Lab File: VD064284.D
Acq: 19 Nov 2019 12:32

Tgt Ion	76	Resp	23535
Ion Ratio	100	Lower	Upper
76	100		
78	7.8	7.2	10.8





#25

2-Butanone

Concen: 28.856 ug/l

RT: 7.23 min Scan# 902

Delta R.T. 0.00 min

Lab File: VD064284.D

Acq: 19 Nov 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

40180

Tot Ion: 43 Resp: 31024

Ion Ratio Lower Upper

43 100

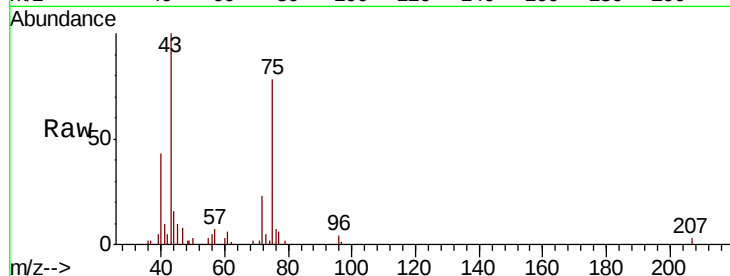
72 23.9 20.6 30.8

Manual Integrations

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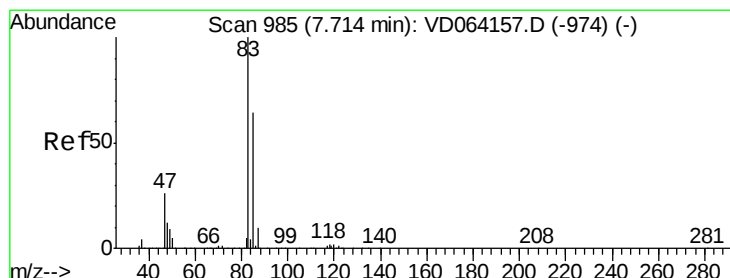
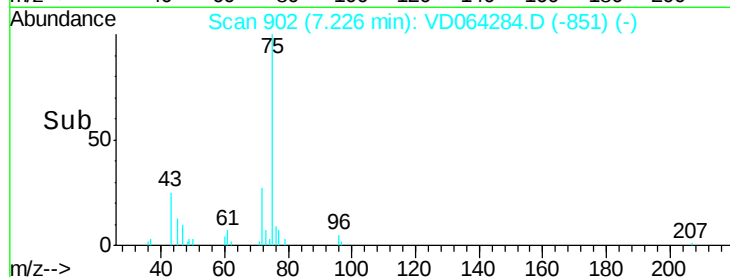
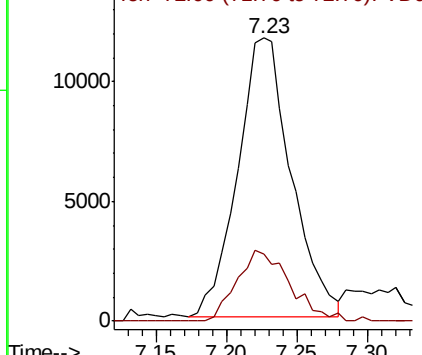
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Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#30

Chloroform

Concen: 3.945 ug/l

RT: 7.71 min Scan# 984

Delta R.T. -0.01 min

Lab File: VD064284.D

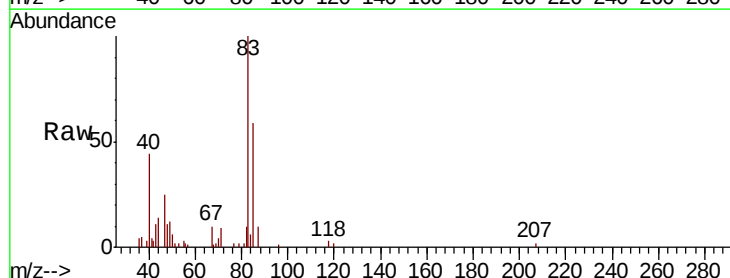
Acq: 19 Nov 2019 12:32

Tgt Ion: 83 Resp: 27589

Ion Ratio Lower Upper

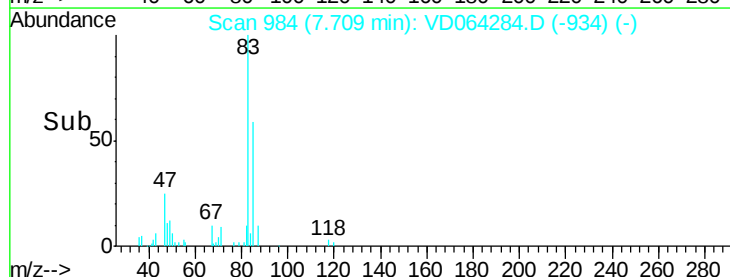
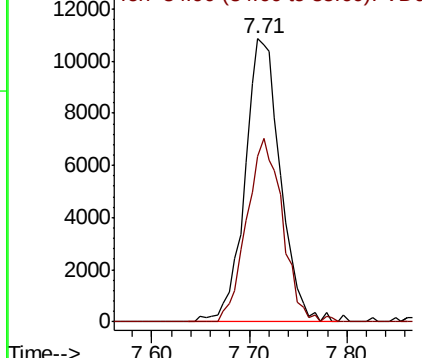
83 100

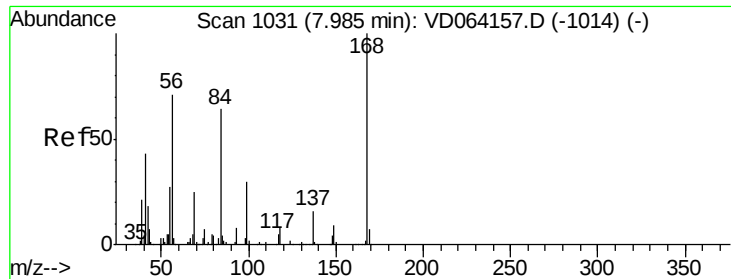
85 58.6 51.4 77.0



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC





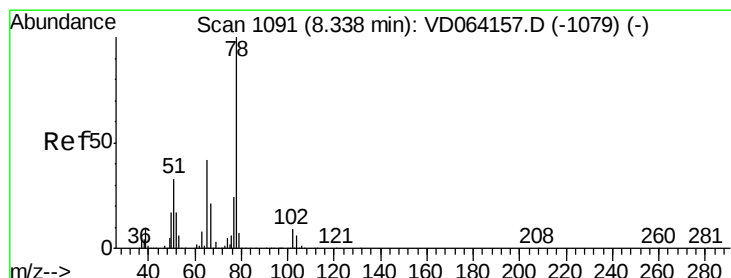
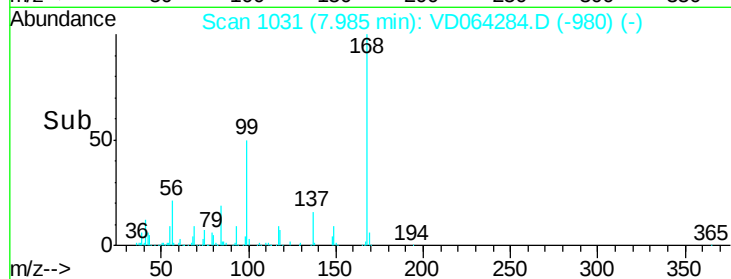
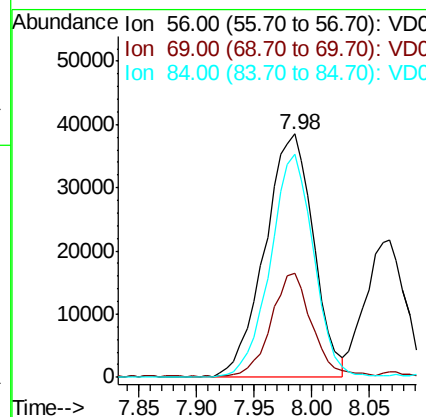
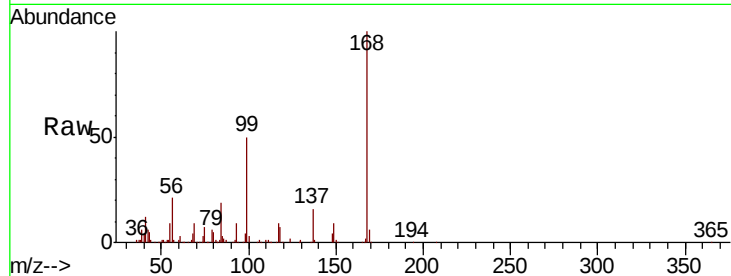
#31
Cyclohexane
Concen: 16.383 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD064284.D
Acq: 19 Nov 2019 12:32

Instrument :
MSVOA_D
ClientSampled :
40180

Tot Ion	Ratio	Lower	Upper
56	100		
69	42.3	28.2	42.4
84	91.6	71.8	107.6

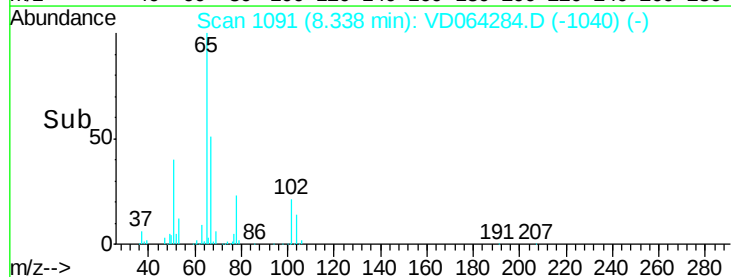
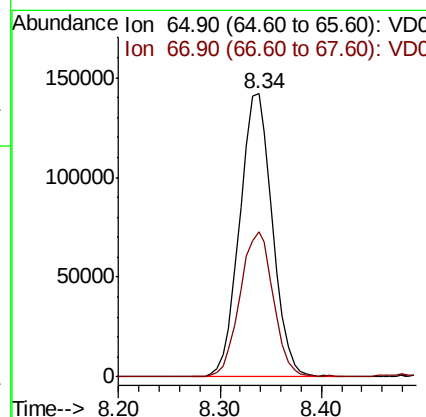
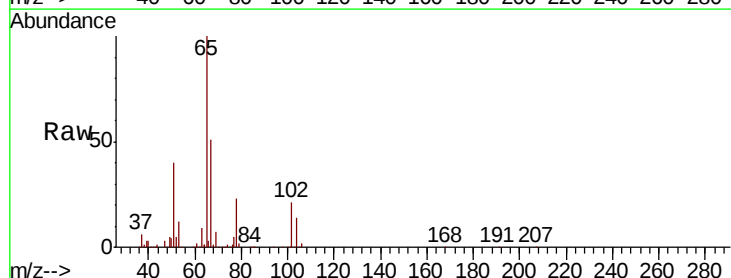
Manual Integrations
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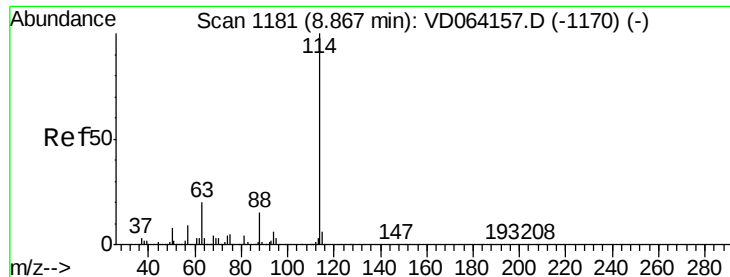
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#33
1,2-Dichloroethane-d4
Concen: 90.512 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. -0.00 min
Lab File: VD064284.D
Acq: 19 Nov 2019 12:32

Tgt Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	104.4





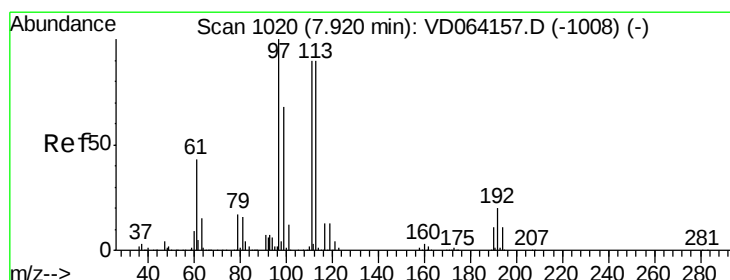
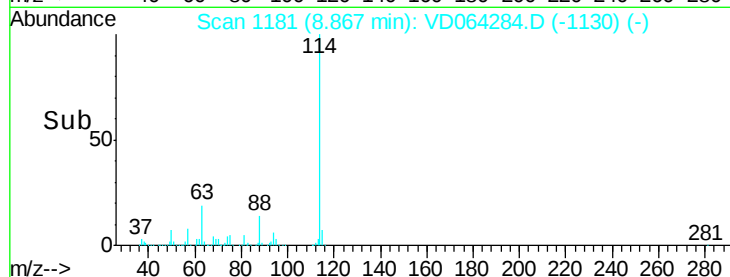
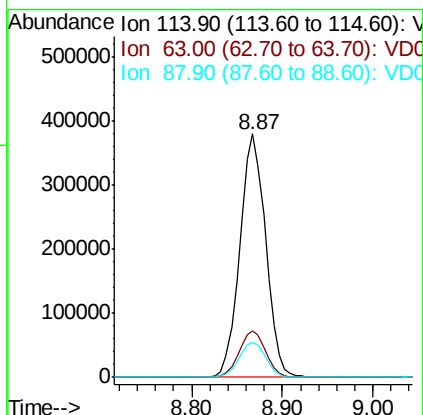
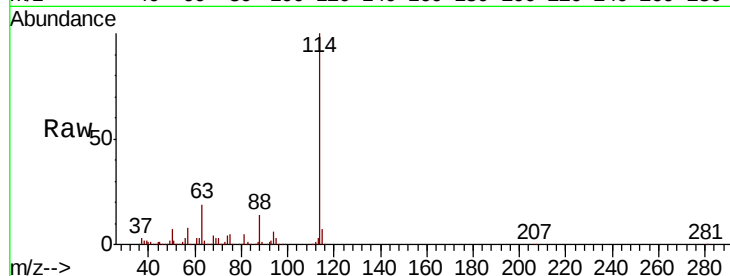
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.87 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VD064284.D
Acq: 19 Nov 2019 12:32

Instrument :
MSVOA_D
ClientSampleId :
40180

Tot Ion	Ratio	Resp Lower	Upper
114	100		
63	18.9	0.0	40.0
88	14.2	0.0	30.2

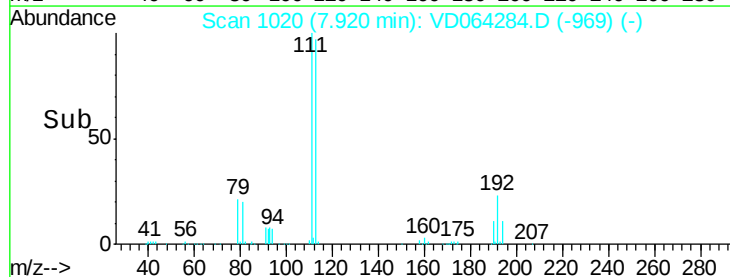
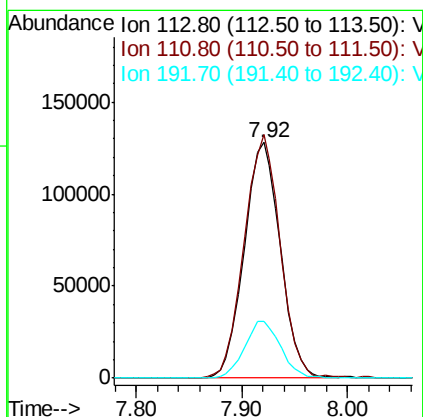
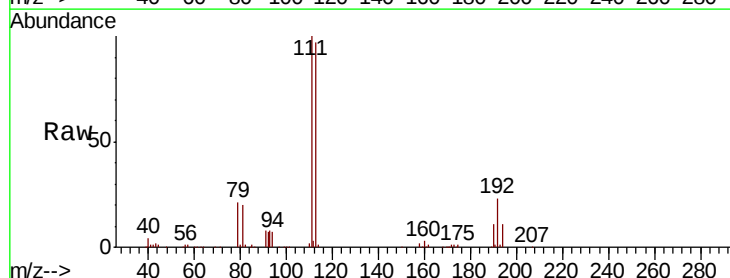
Manual Integrations
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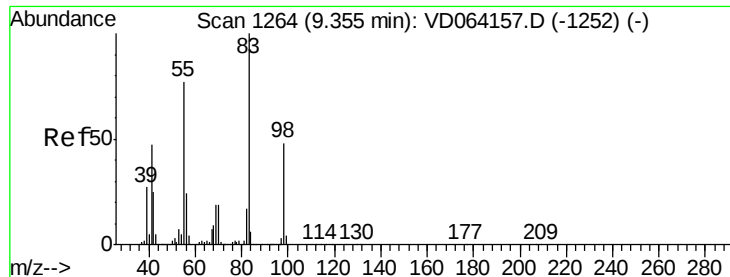
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#35
Dibromofluoromethane
Concen: 70.699 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VD064284.D
Acq: 19 Nov 2019 12:32

Tgt Ion	Ratio	Resp Lower	Upper
113	100		
111	102.9	81.5	122.3
192	24.0	18.8	28.2





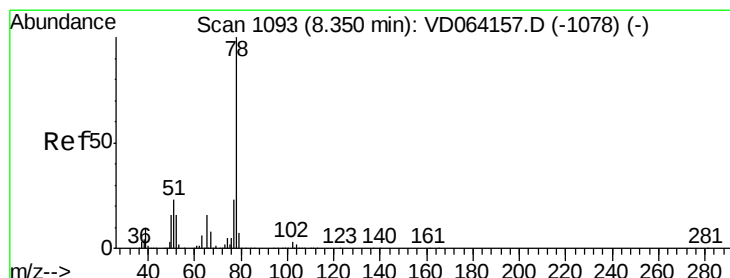
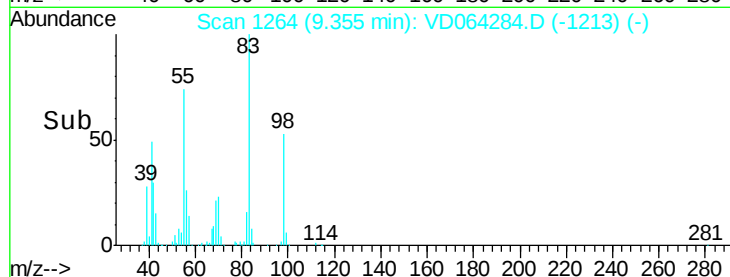
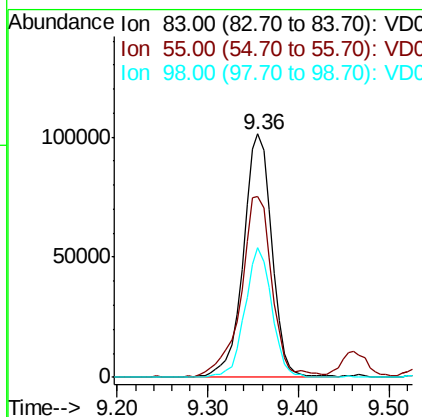
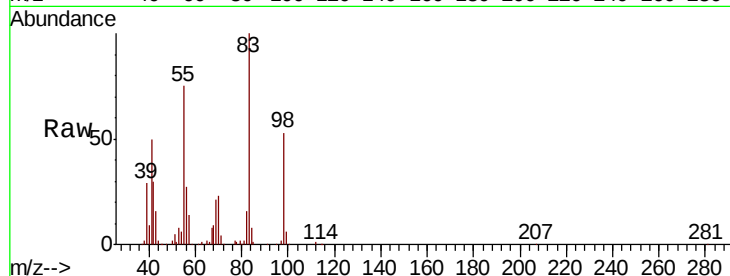
#39
Methvlcvclohexane
Concen: 25.143 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD064284.D
Acq: 19 Nov 2019 12:32

Instrument :
MSVOA_D
ClientSampled :
40180

Tot Ion	Ratio	Lower	Upper
83	100		
55	74.0	61.7	92.5
98	53.1	38.6	58.0

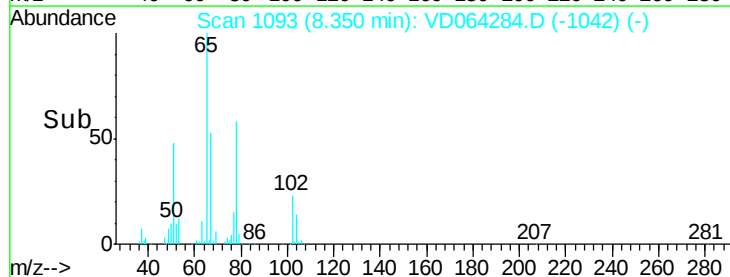
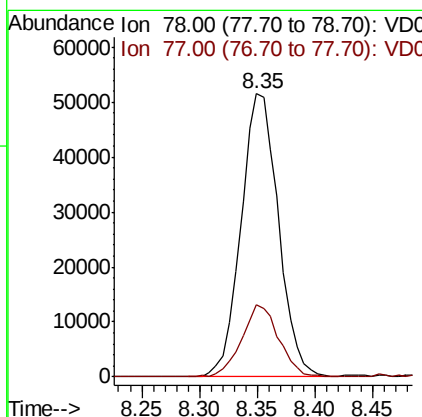
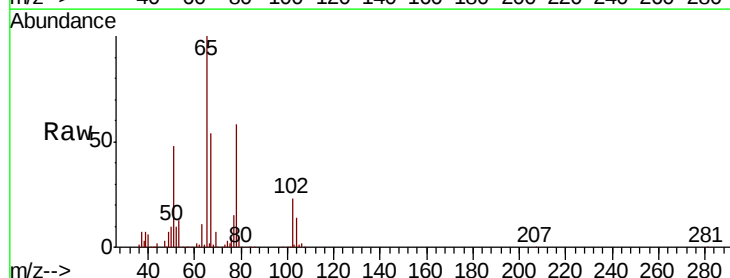
Manual Integrations
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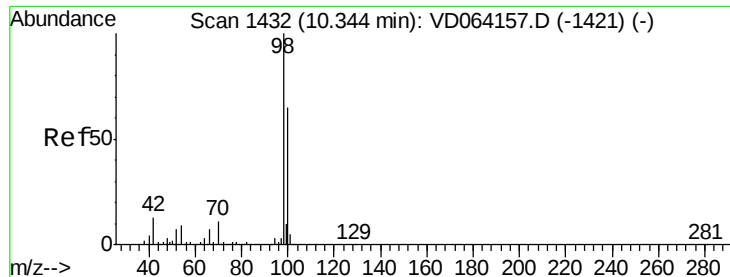
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#40
Benzene
Concen: 6.135 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. -0.00 min
Lab File: VD064284.D
Acq: 19 Nov 2019 12:32

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.7	18.6	28.0





#50

Toluene-d8

Concen: 29.806 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD064284.D

Acq: 19 Nov 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

40180

Tot Ion: 98 Resp: 484460

Ion Ratio Lower Upper

98 100

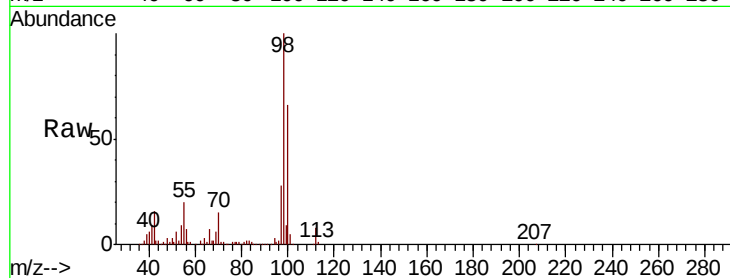
100 64.7 52.6 78.8

Manual Integrations

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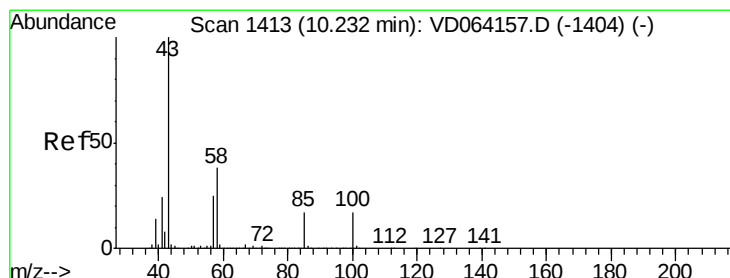
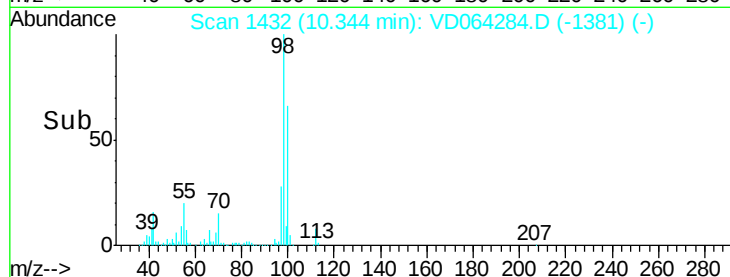
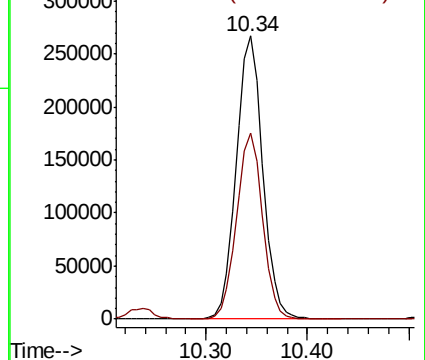
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Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#51

4-Methyl-2-Pentanone

Concen: 38.101 ug/l

RT: 10.24 min Scan# 1414

Delta R.T. 0.01 min

Lab File: VD064284.D

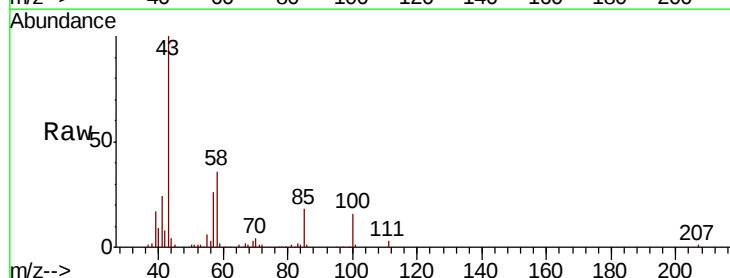
Acq: 19 Nov 2019 12:32

Tgt Ion: 43 Resp: 109942

Ion Ratio Lower Upper

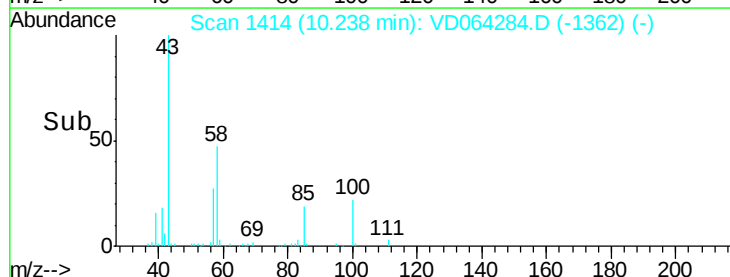
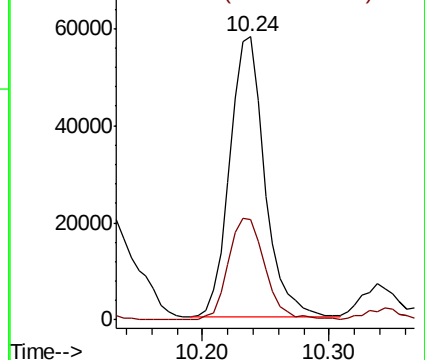
43 100

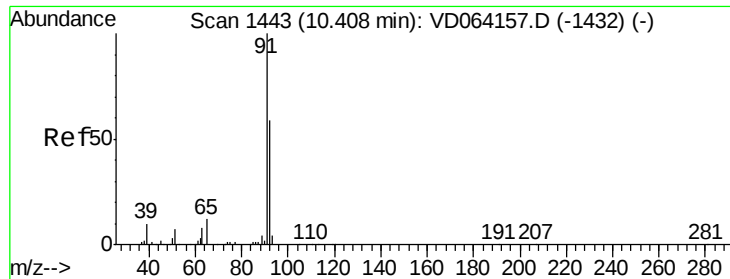
58 38.4 30.2 45.4



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#52

Toluene

Concen: 46.605 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. 0.00 min

Lab File: VD064284.D

Acq: 19 Nov 2019 12:32

Instrument :

MSVOA_D

ClientSampled :

40180

Tot Ion: 92 Resp: 580197

Ion Ratio Lower Upper

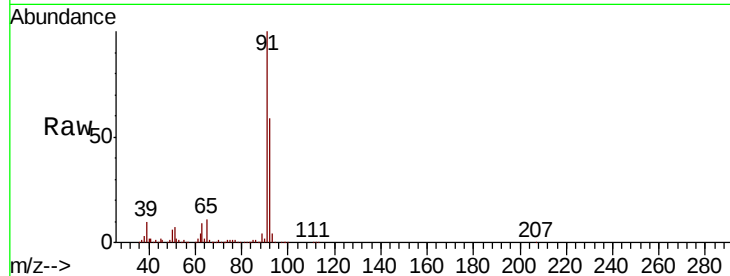
92 100

91 170.4 136.4 204.6

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Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

600000

500000

400000

300000

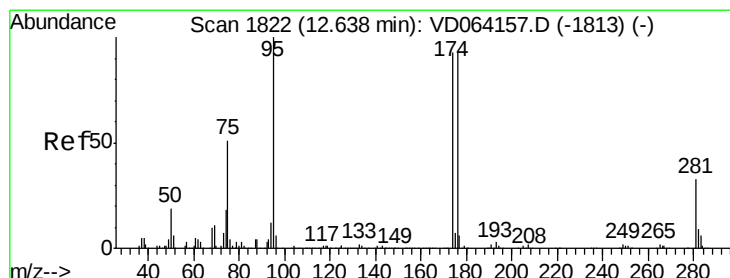
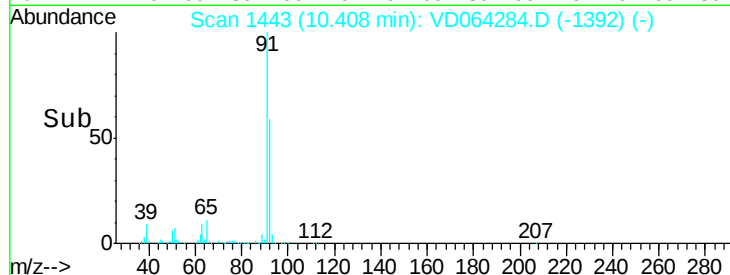
200000

100000

0

10.30 10.40 10.50

Time-->



#62

4-Bromofluorobenzene

Concen: 11.901 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064284.D

Acq: 19 Nov 2019 12:32

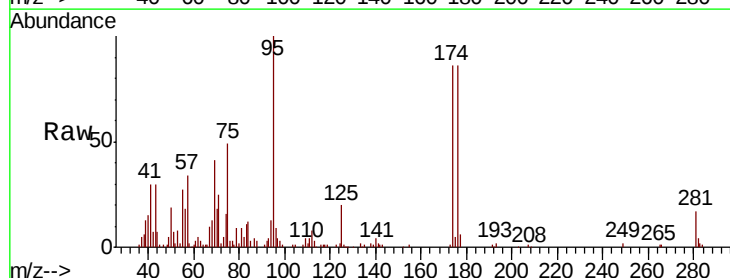
Tgt Ion: 95 Resp: 66990

Ion Ratio Lower Upper

95 100

174 90.2 0.0 183.6

176 89.3 0.0 180.2



Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

50000

40000

30000

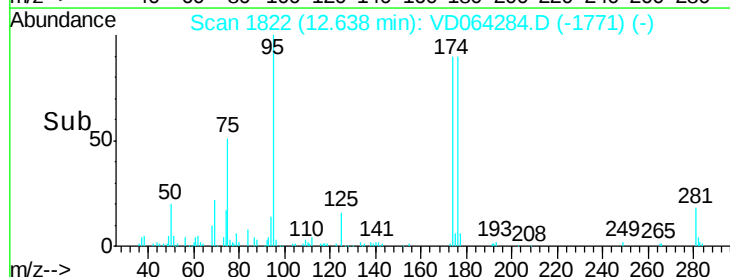
20000

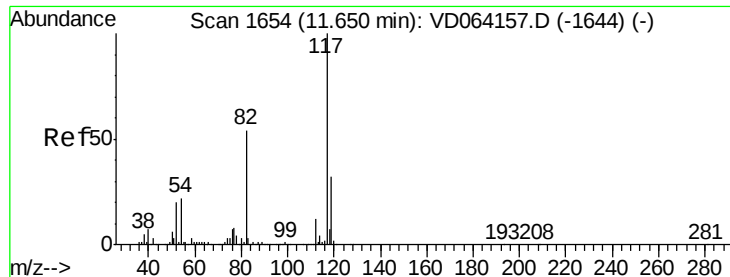
10000

0

12.60 12.65 12.70

Time-->





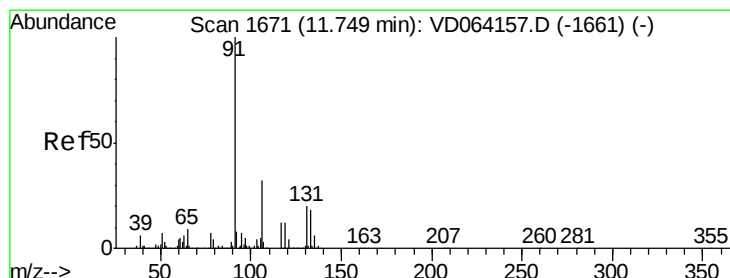
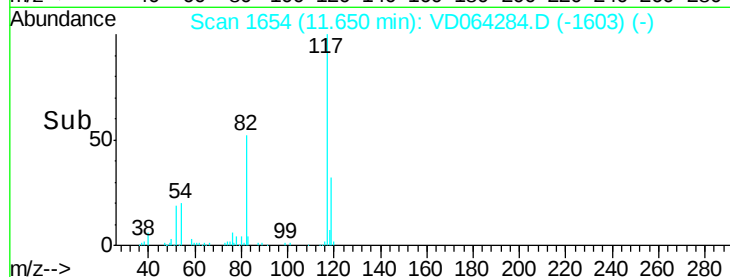
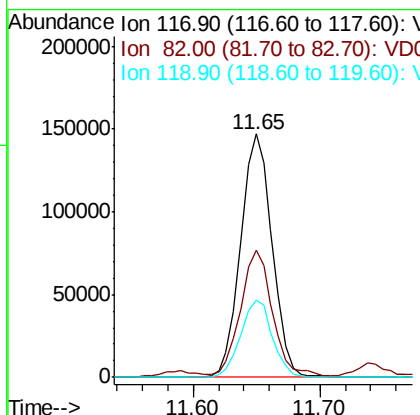
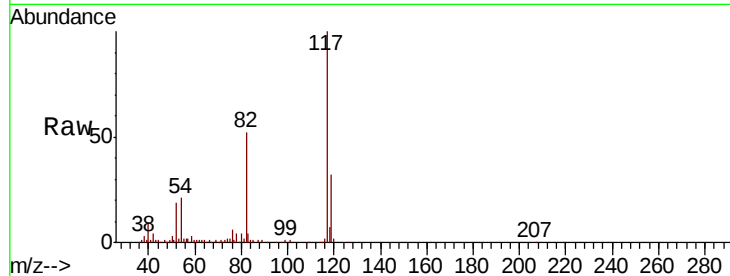
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064284.D
Acq: 19 Nov 2019 12:32

Instrument :
MSVOA_D
ClientSampleId :
40180

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.2	42.8	64.2
119	32.0	25.6	38.4

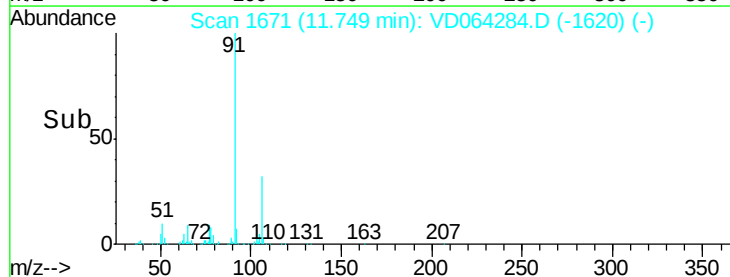
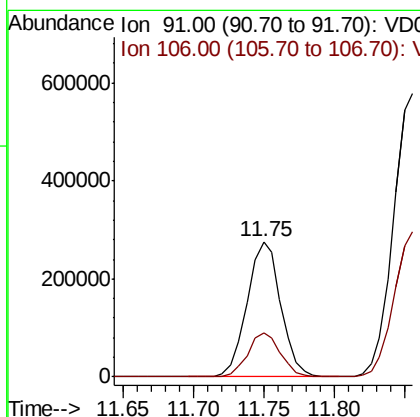
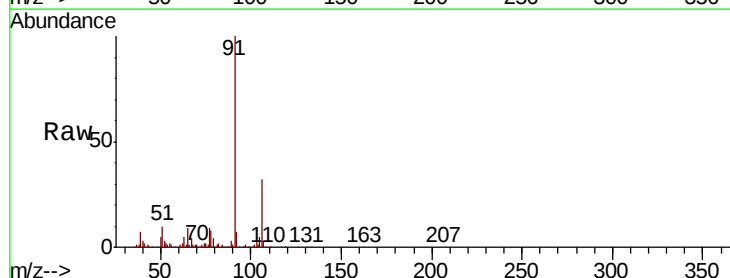
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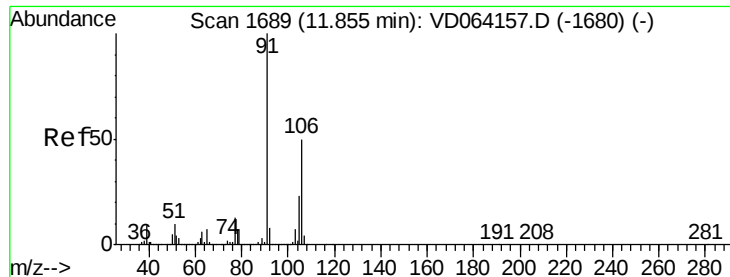
MMDadoda
11/20/2019 9:56:56 AM



#67
Ethyl Benzene
Concen: 49.652 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. -0.00 min
Lab File: VD064284.D
Acq: 19 Nov 2019 12:32

Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.2	25.5	38.3





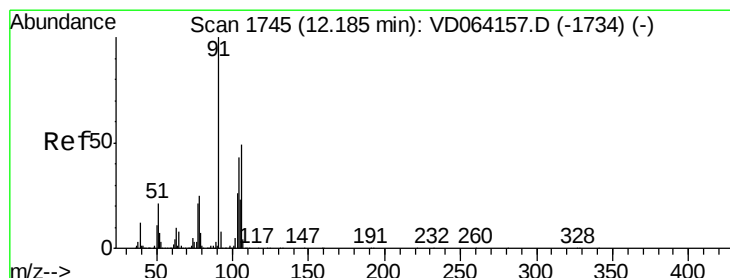
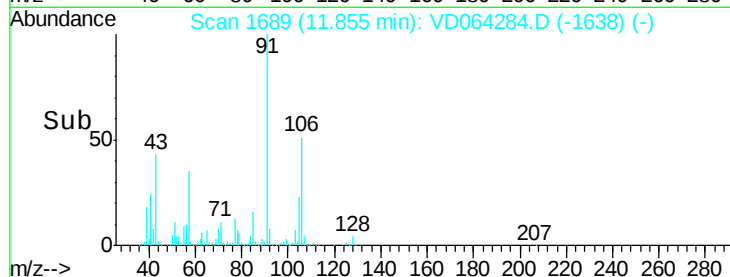
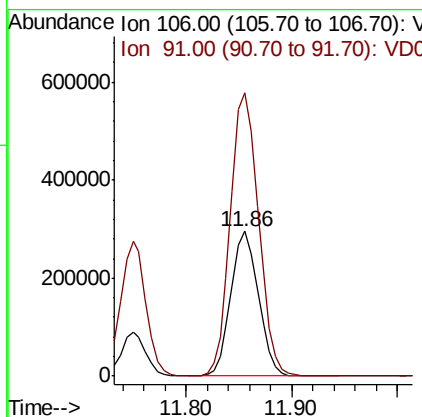
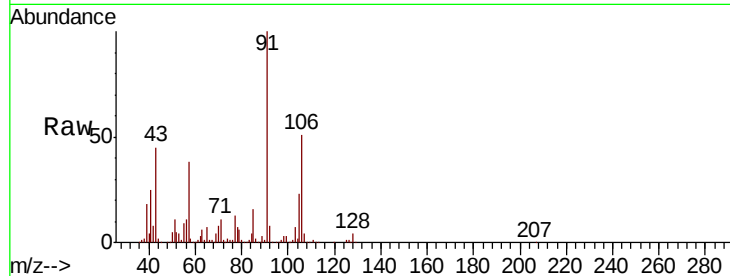
#68
m/p-Xylenes
Concen: 149.996 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. 0.00 min
Lab File: VD064284.D
Acq: 19 Nov 2019 12:32

Instrument :
MSVOA_D
ClientSampleId :
40180

Tot Ion	Ion	Ratio	Lower	Upper
106	100			
91	200.0	160.3	240.5	

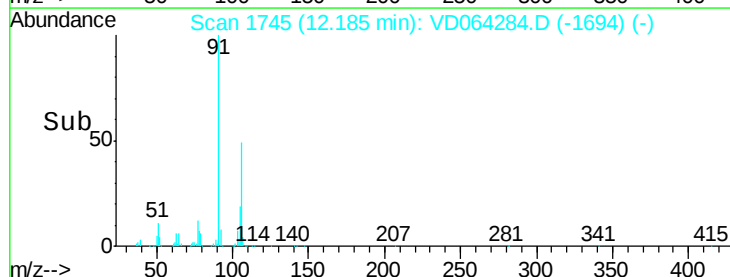
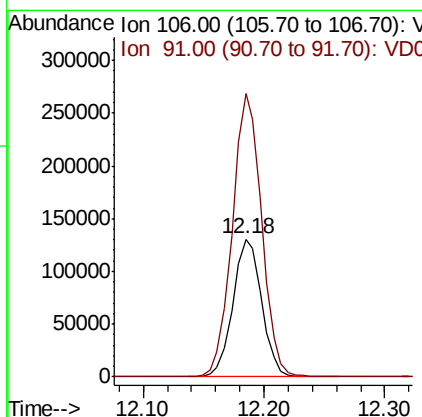
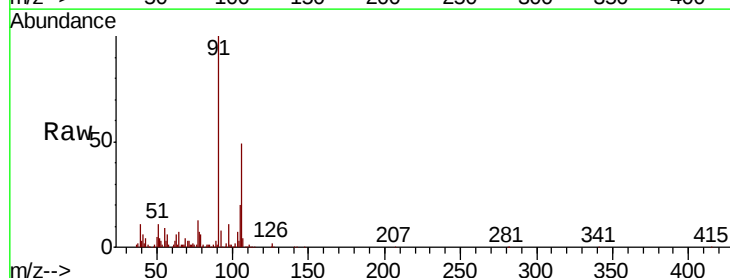
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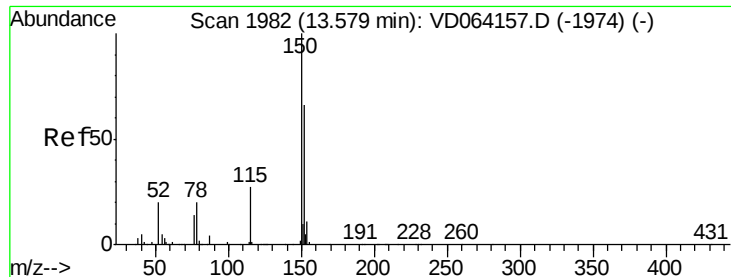
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#69
o-Xylene
Concen: 65.339 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. -0.00 min
Lab File: VD064284.D
Acq: 19 Nov 2019 12:32

Tgt Ion	Ion	Ratio	Lower	Upper
106	100			
91	210.2	105.1	315.3	





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.01 min

Lab File: VD064284.D

Acq: 19 Nov 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

40180

Tot Ion:152 Resp: 32419

Ion Ratio Lower Upper

152 100

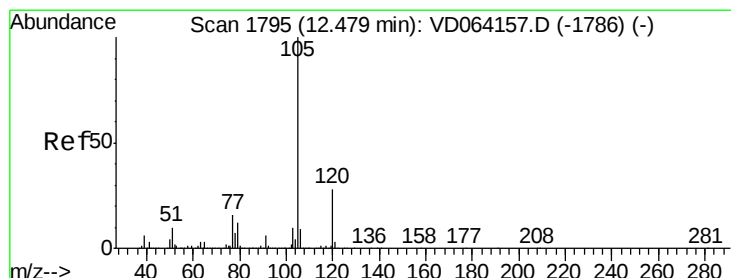
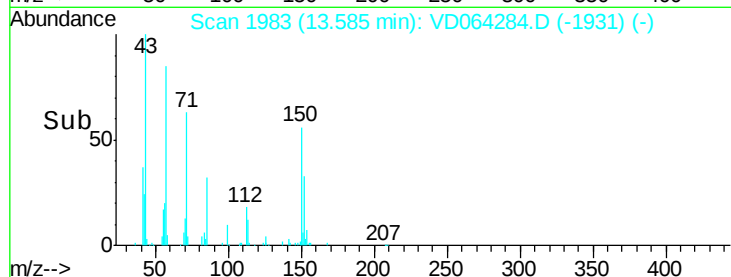
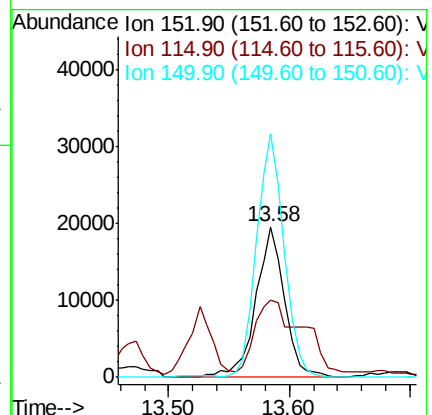
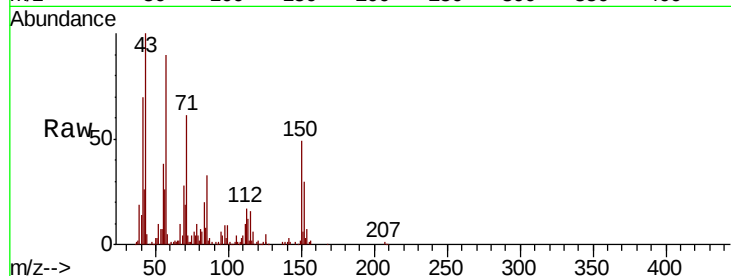
115 77.4 27.4 82.2

150 154.0 0.0 351.6

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#73

Isopropylbenzene

Concen: 44.356 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.01 min

Lab File: VD064284.D

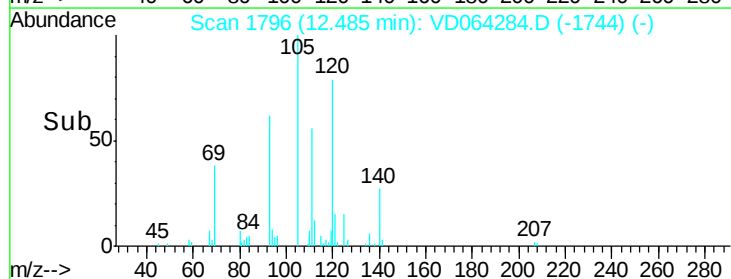
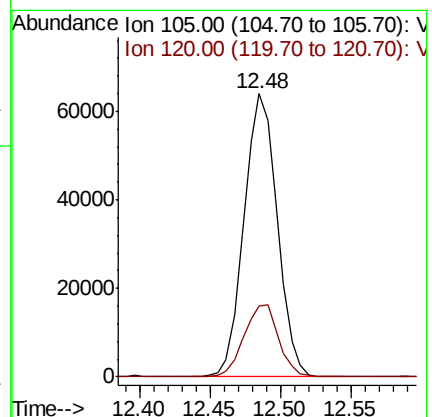
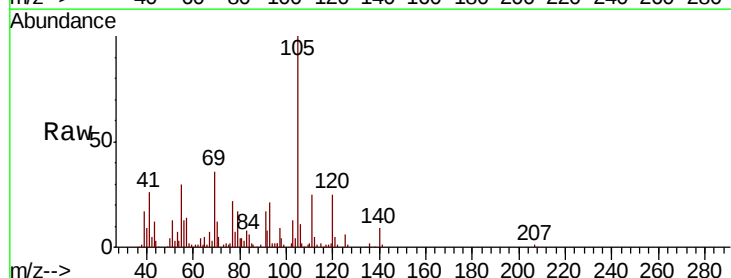
Acq: 19 Nov 2019 12:32

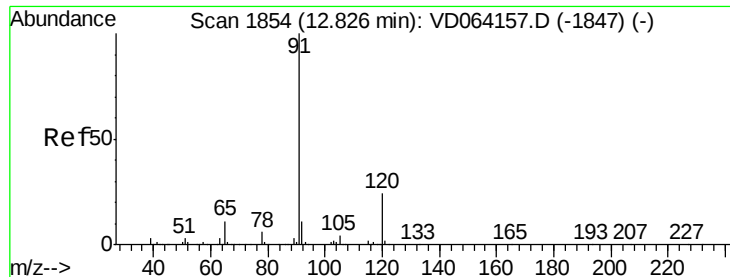
Tgt Ion:105 Resp: 105547

Ion Ratio Lower Upper

105 100

120 26.5 13.6 40.8





#78

n-propylbenzene

Concen: 89.906 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. -0.00 min

Lab File: VD064284.D

Acq: 19 Nov 2019 12:32

Instrument :

MSVOA_D

ClientSampled :

40180

Tot Ion: 91 Resp: 244425

Ion Ratio Lower Upper

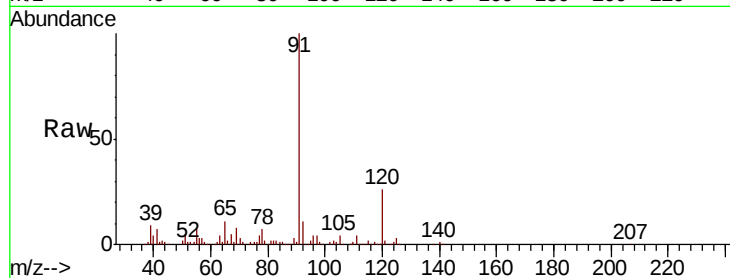
91 100

120 25.9 11.8 35.4

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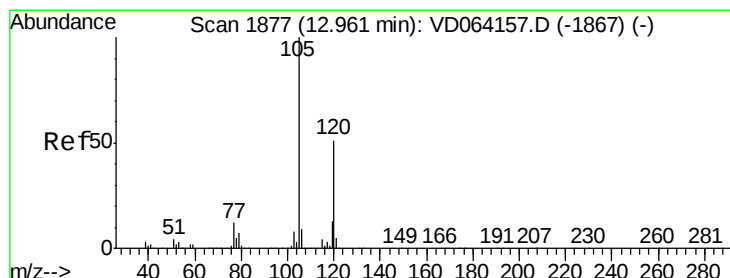
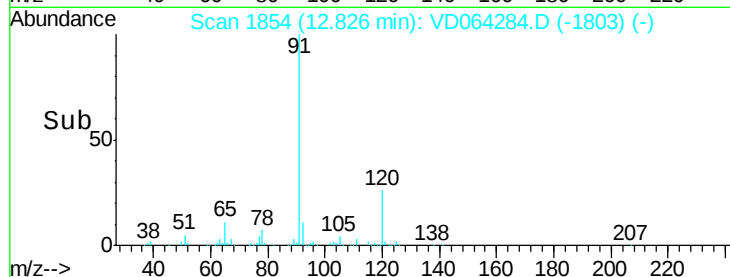
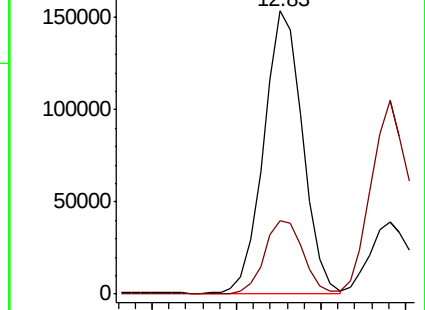
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Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V



#80

1,3,5-Trimethylbenzene

Concen: 130.613 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.01 min

Lab File: VD064284.D

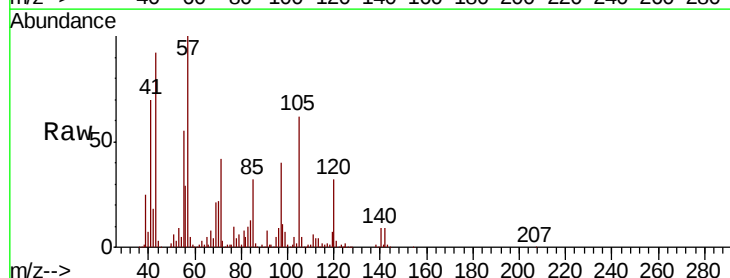
Acq: 19 Nov 2019 12:32

Tgt Ion: 105 Resp: 255384

Ion Ratio Lower Upper

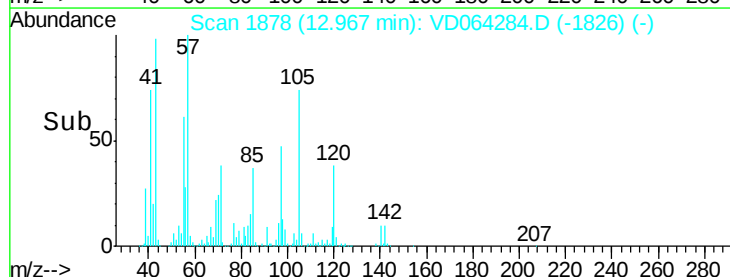
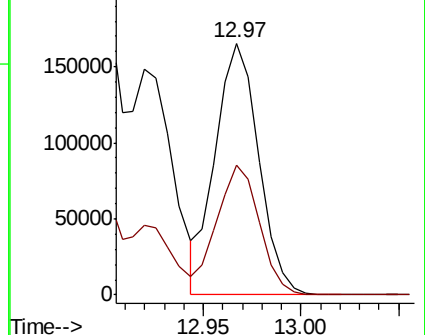
105 100

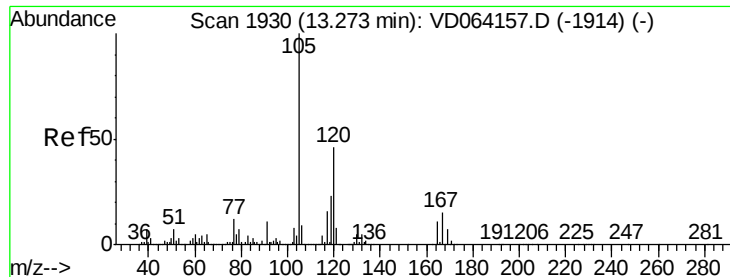
120 50.6 25.4 76.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





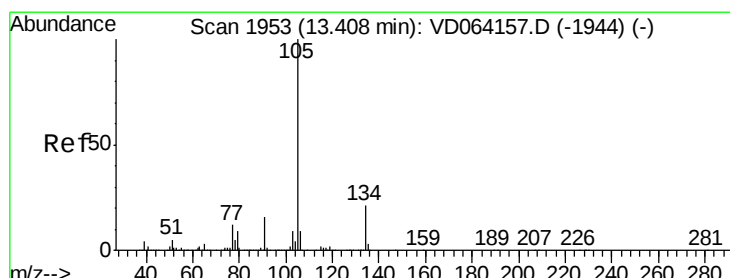
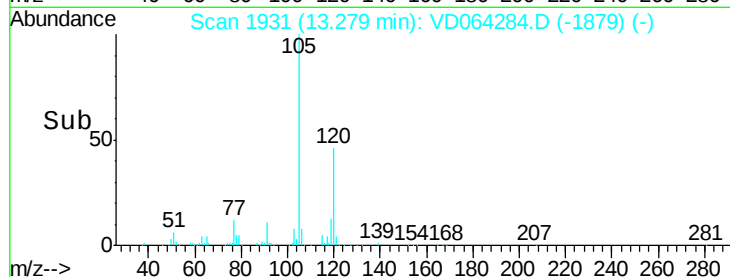
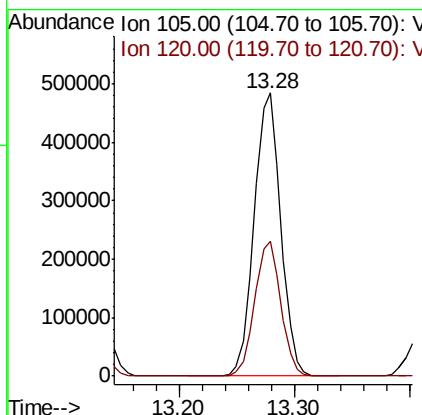
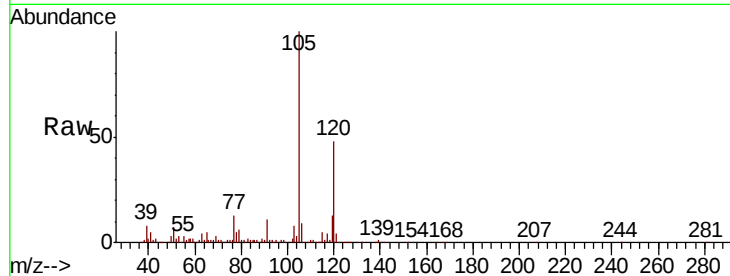
#84
 1,2,4-Trimethylbenzene
 Concen: 402.559 ug/l
 RT: 13.28 min Scan# 1931
 Delta R.T. 0.01 min
 Lab File: VD064284.D
 Acq: 19 Nov 2019 12:32

Instrument :
 MSVOA_D
 ClientSampleID :
 40180

Tot Ion	Ratio	Lower	Upper
105	100		
120	46.8	23.3	69.8

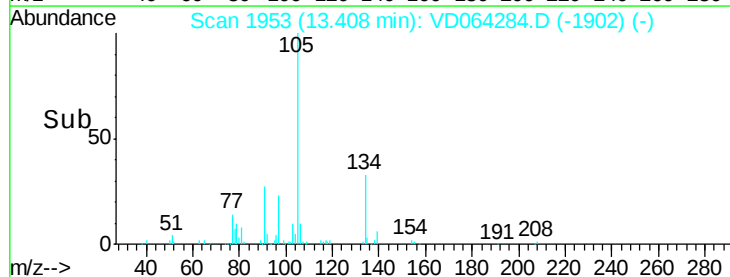
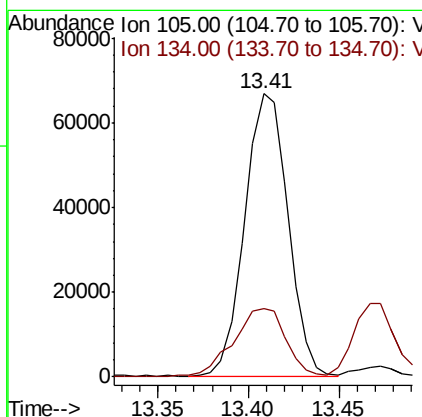
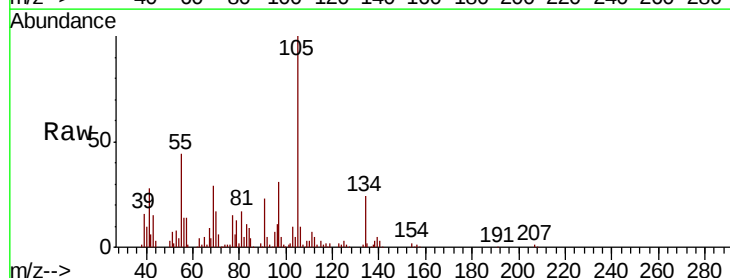
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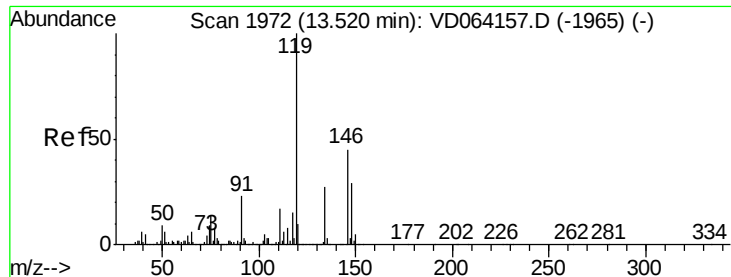
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#85
 sec-Butylbenzene
 Concen: 47.771 ug/l
 RT: 13.41 min Scan# 1953
 Delta R.T. -0.00 min
 Lab File: VD064284.D
 Acq: 19 Nov 2019 12:32

Tgt Ion	Ratio	Lower	Upper
105	100		
134	29.5	10.7	31.9





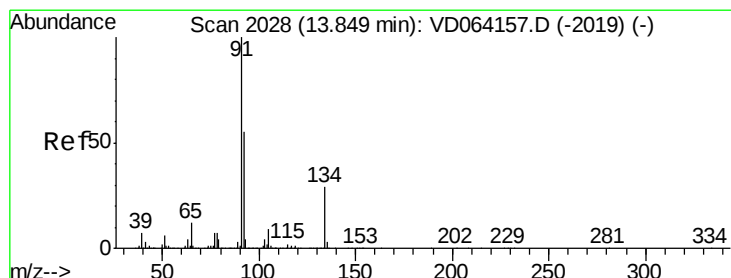
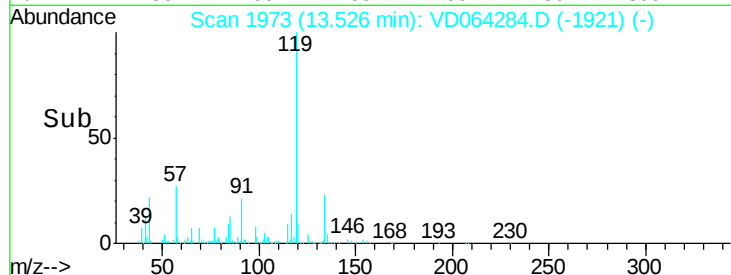
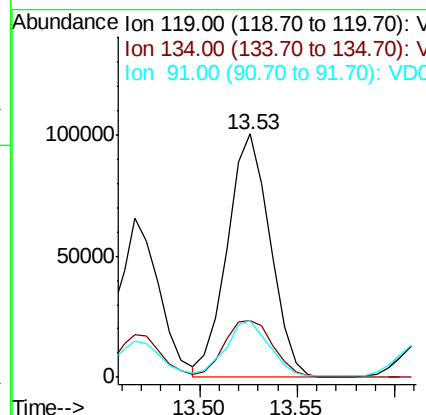
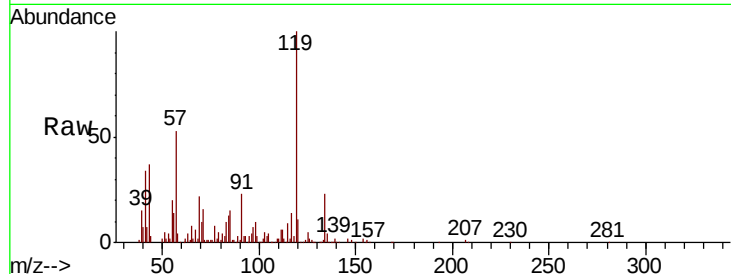
#86
p-Isopropyltoluene
Concen: 69.559 ug/l
RT: 13.53 min Scan# 1973
Delta R.T. 0.01 min
Lab File: VD064284.D
Acq: 19 Nov 2019 12:32

Instrument :
MSVOA_D
ClientSampleID :
40180

Tot Ion	Ratio	Resp	Lower	Upper
119	100	153132		
134	26.7	13.5	40.5	
91	23.0	11.5	34.4	

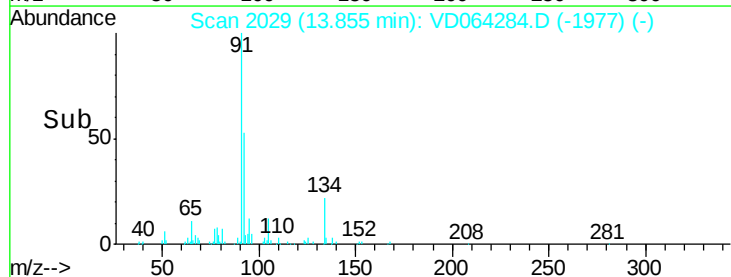
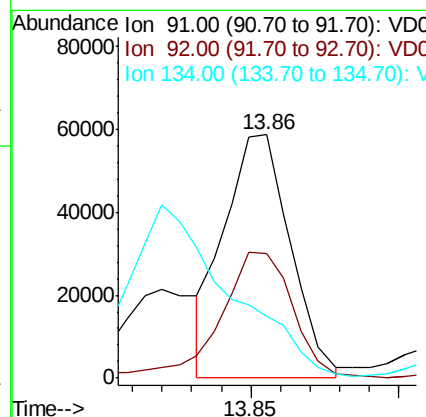
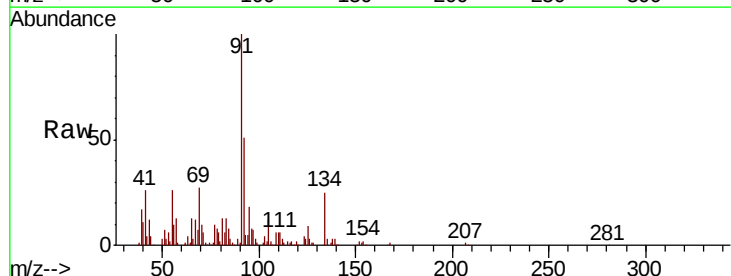
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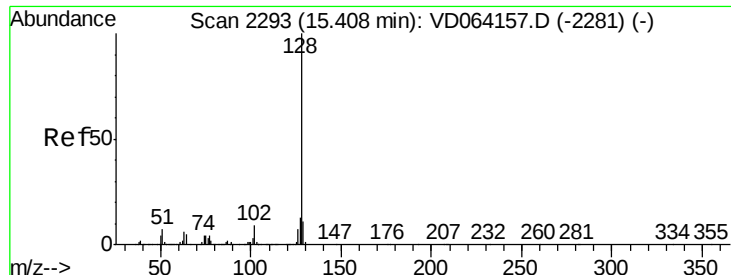
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#89
n-Butylbenzene
Concen: 46.053 ug/l m
RT: 13.86 min Scan# 2029
Delta R.T. 0.01 min
Lab File: VD064284.D
Acq: 19 Nov 2019 12:32

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	91595		
92	55.9	27.3	81.8	
134	0.0	14.1	42.4	





#95
Naphthalene
Concen: 19.120 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. 0.01 min
Lab File: VD064284.D
Acq: 19 Nov 2019 12:32

Instrument :
MSVOA_D
ClientSampleId :
40180

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.0	10.5	15.7
129	8.3	8.6	13.0

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