

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD062218\
 Data File : VD058299.D
 Acq On : 22 Jun 2018 16:29
 Operator : VA/AP
 Sample : J3663-02
 Misc : 6.66g/5ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB472-13-15-180618

Manual Integrations
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 6/29/2018 2:36:41 PM

Quant Time: Jun 28 16:49:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:52:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	763104	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.69	114	990727	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.68	117	782002	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	387873	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.02	65	421915	54.74	ug/l	0.00
Spiked Amount 50.000			Recovery	=	109.48%	
35) Dibromofluoromethane	5.54	113	431413	53.50	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.00%	
50) Toluene-d8	8.70	98	938042	48.08	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.16%	
62) 4-Bromofluorobenzene	11.93	95	403914	50.68	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.36%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	2.61	43	706967	670.67	ug/l	95
25) 2-Butanone	4.84	43	598374	260.45	ug/l	98
27) cis-1,2-Dichloroethene	4.81	96	218778	30.56	ug/l	88
44) Trichloroethene	6.98	130	8937	1.27	ug/l	97
51) 4-Methyl-2-Pentanone	8.60	43	562012	115.73	ug/l	100
52) Toluene	8.80	92	68972	5.19	ug/l	97
55) 1,1,2-Trichloroethane	9.44	97	7435m	1.58	ug/l	
59) 2-Hexanone	9.79	43	41909m	11.94	ug/l	
65) Chlorobenzene	10.72	112	1746279	119.38	ug/l	96
67) Ethyl Benzene	10.85	91	71402	2.76	ug/l	98
68) m/p-Xylenes	11.00	106	102741	11.93	ug/l	100
69) o-Xylene	11.40	106	13639	1.66	ug/l	74
73) Isopropylbenzene	11.78	105	29958	1.29	ug/l	98
78) n-propylbenzene	12.15	91	71096	2.37	ug/l	94
80) 1,3,5-Trimethylbenzene	12.32	105	191105	10.56	ug/l	97
84) 1,2,4-Trimethylbenzene	12.62	105	542402	27.57	ug/l	96
85) sec-Butylbenzene	12.75	105	45916	1.88	ug/l	85
86) p-Isopropyltoluene	12.89	119	28116	1.42	ug/l	93
87) 1,3-Dichlorobenzene	12.84	146	740623	61.33	ug/l	98
88) 1,4-Dichlorobenzene	12.93	146	1451977	123.14	ug/l	96
91) 1,2-Dichlorobenzene	13.20	146	5949680	578.99	ug/l	97
93) 1,2,4-Trichlorobenzene	14.34	180	44510	4.53	ug/l	98
95) Naphthalene	14.51	128	405541	31.33	ug/l	100
96) 1,2,3-Trichlorobenzene	14.66	180	9138	1.06	ug/l #	89

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

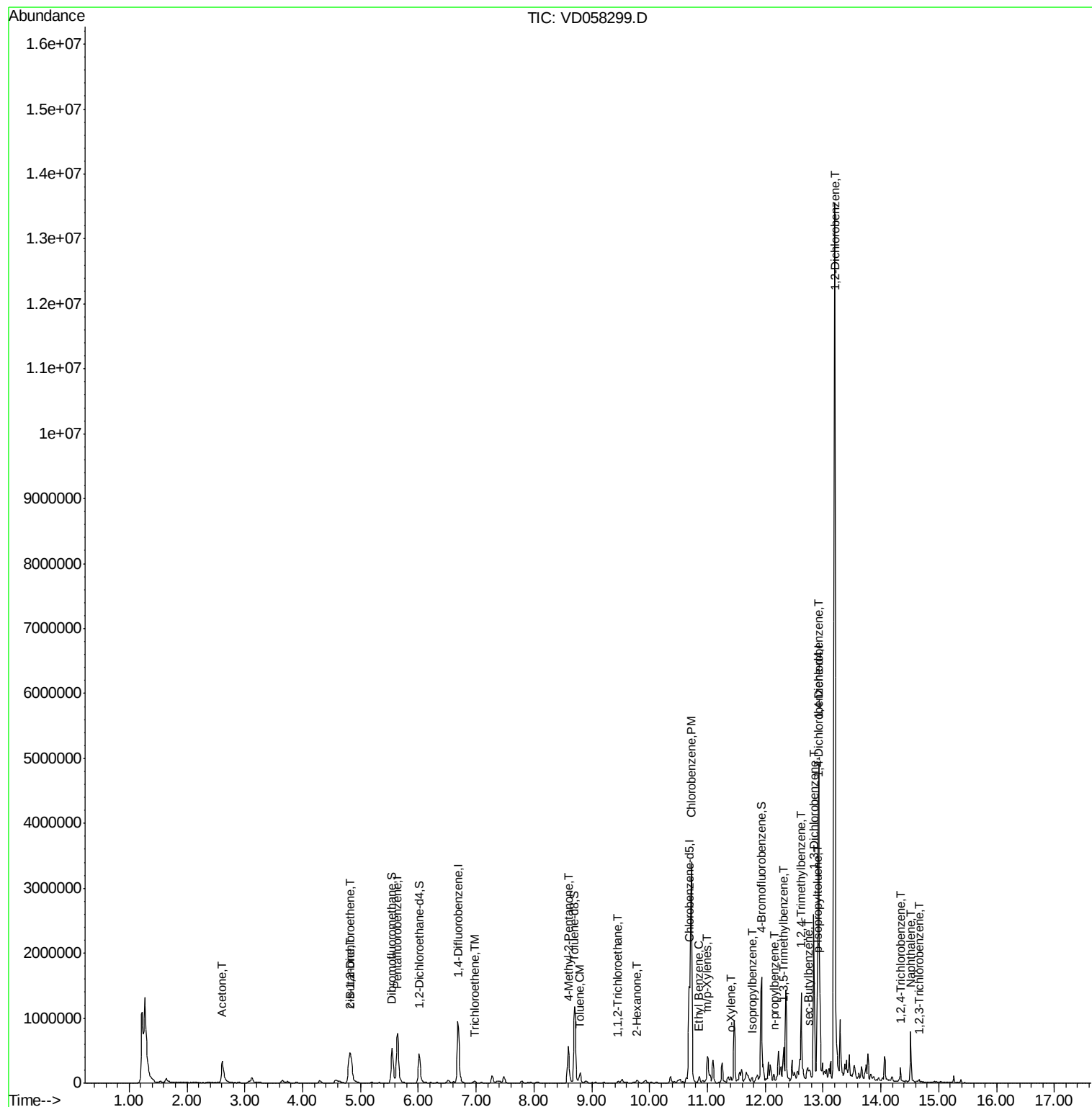
Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD062218\
Data File : VD058299.D
Acq On : 22 Jun 2018 16:29
Operator : VA/AP
Sample : J3663-02
Misc : 6.66g/5ml/MSVOA D/SOIL
ALS Vial : 9 Sample Multiplier: 1

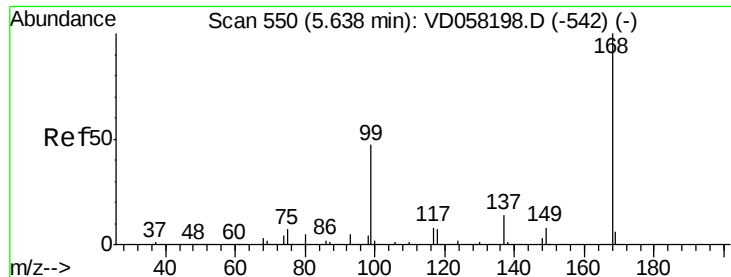
Instrument :
MSVOA_D
ClientSampleId :
WP021SB472-13-15-180618

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Quant Time: Jun 28 16:49:39 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
Quant Title : SW846 8260
QLast Update : Wed Jun 20 05:52:56 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.64 min Scan# 550

Delta R.T. 0.00 min

Lab File: VD058299.D

Acq: 22 Jun 2018 16:29

Instrument :

MSVOA_D

ClientSampleId :

WP021SB472-13-15-180618

Tot Ion:168 Resp: 763104

Ion Ratio Lower Upper

168 100

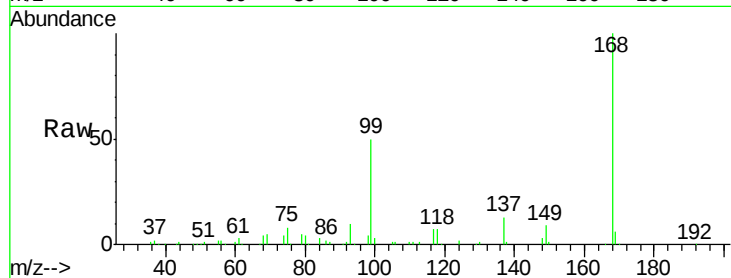
99 50.4 41.1 61.7

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.64

300000

250000

200000

150000

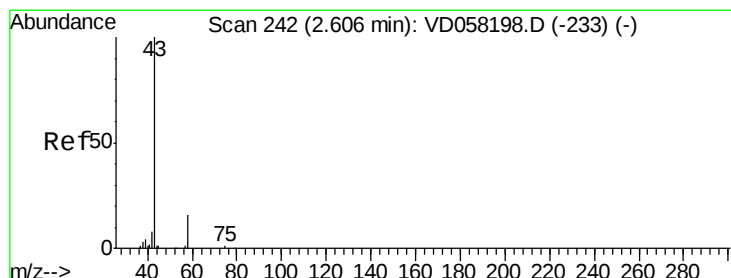
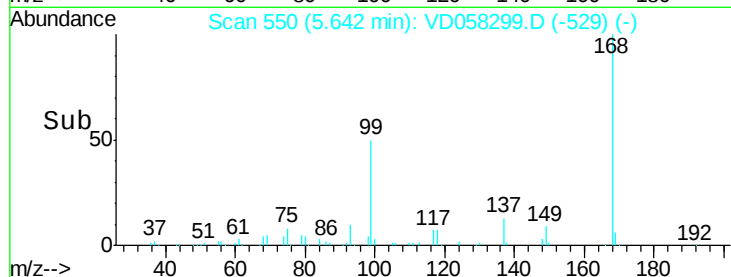
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#16

Acetone

Concen: 670.67 ug/l

RT: 2.61 min Scan# 242

Delta R.T. 0.00 min

Lab File: VD058299.D

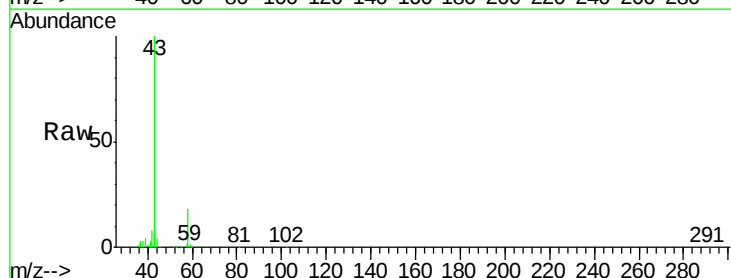
Acq: 22 Jun 2018 16:29

Tgt Ion: 43 Resp: 706967

Ion Ratio Lower Upper

43 100

58 17.9 12.7 19.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

2.61

250000

200000

150000

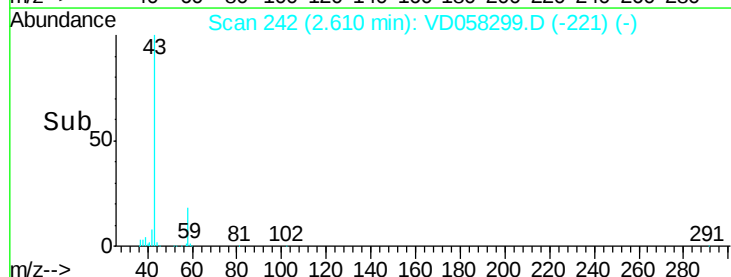
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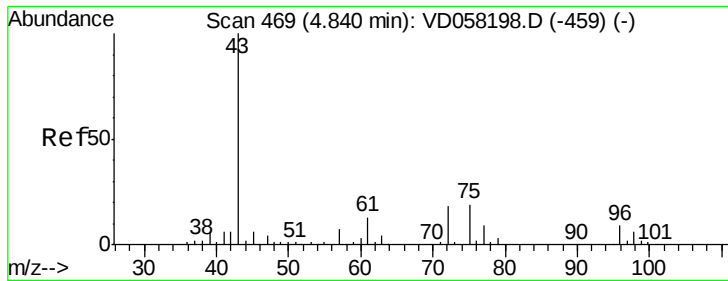
50000

0

Time-->

2.40 2.50 2.60 2.70 2.80





#25

2-Butanone

Concen: 260.45 ug/l

RT: 4.84 min Scan# 468

Delta R.T. -0.00 min

Lab File: VD058299.D

Acq: 22 Jun 2018 16:29

Instrument :

MSVOA_D

ClientSampleId :

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Tot Ion: 43 Resp: 598374

Ion Ratio Lower Upper

43 100

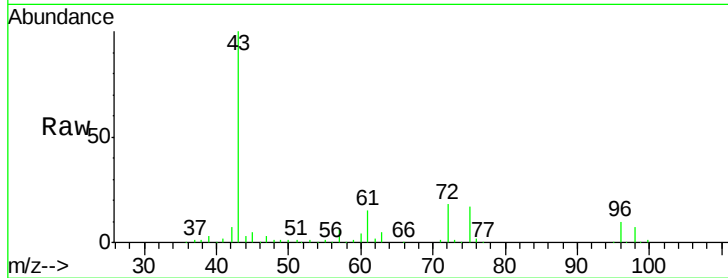
72 18.4 14.1 21.1

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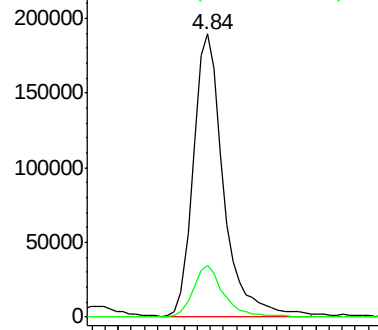
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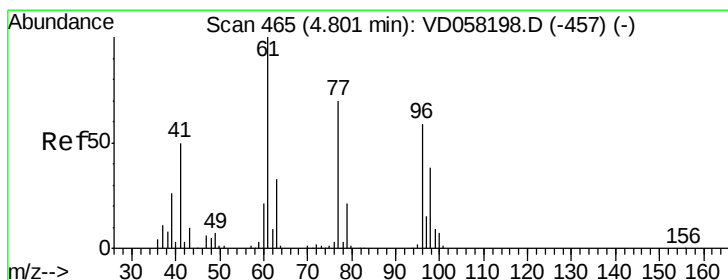
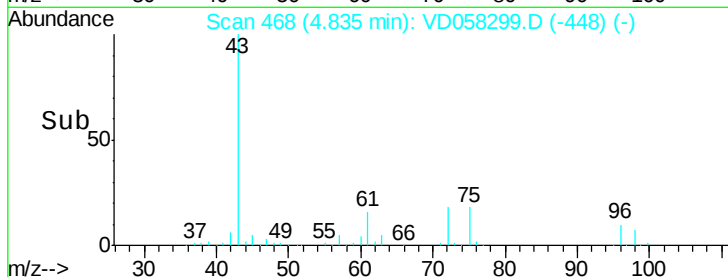


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



Time-->



#27

cis-1,2-Dichloroethene

Concen: 30.56 ug/l

RT: 4.81 min Scan# 465

Delta R.T. 0.00 min

Lab File: VD058299.D

Acq: 22 Jun 2018 16:29

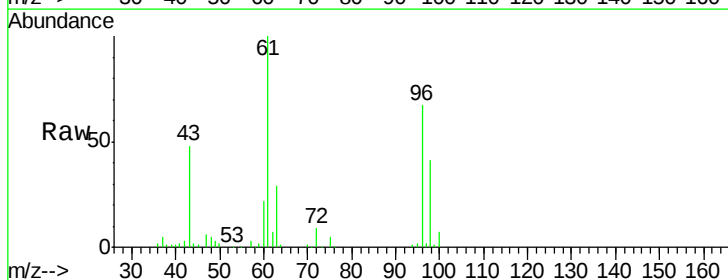
Tgt Ion: 96 Resp: 218778

Ion Ratio Lower Upper

96 100

61 149.6 0.0 338.6

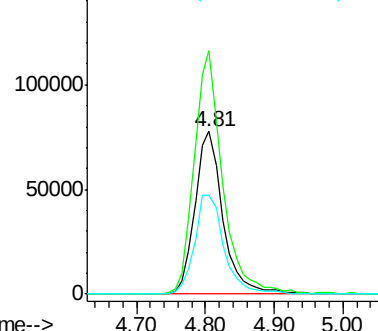
98 61.2 0.0 130.2



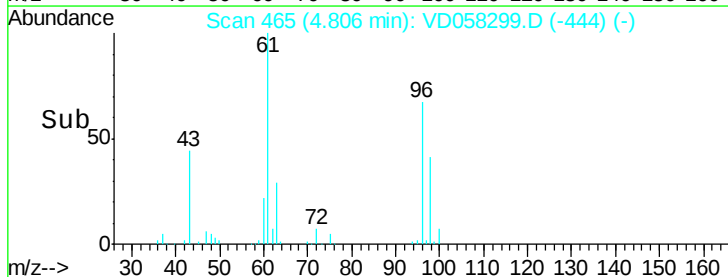
Abundance Ion 95.90 (95.60 to 96.60): VDC

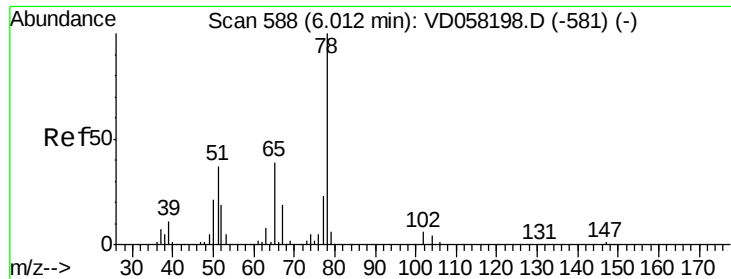
Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



Time-->





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.02 min Scan# 588

Delta R.T. 0.00 min

Lab File: VD058299.D

Acq: 22 Jun 2018 16:29

Tot Ion: 65 Resp: 421915

Ion Ratio Lower Upper

65 100

67 48.8 0.0 97.8

Instrument :

MSVOA_D

ClientSampleId :

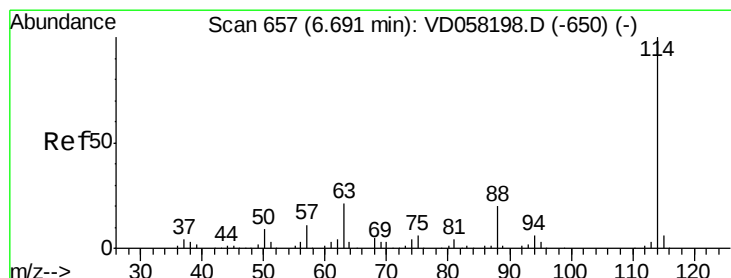
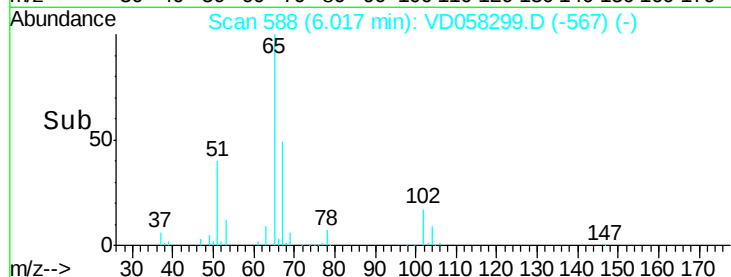
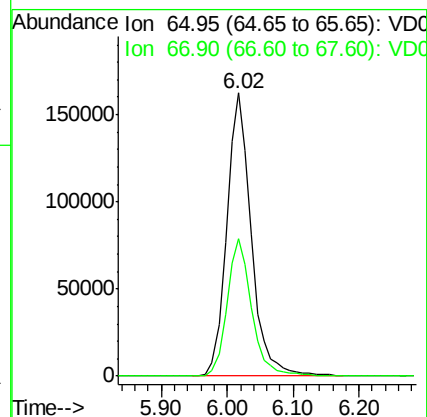
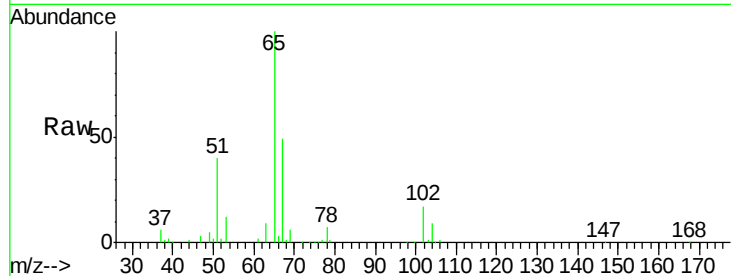
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#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.69 min Scan# 656

Delta R.T. -0.00 min

Lab File: VD058299.D

Acq: 22 Jun 2018 16:29

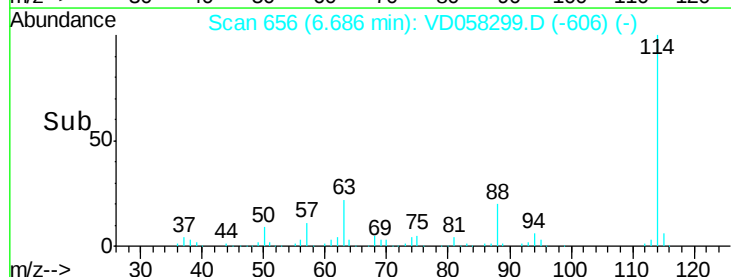
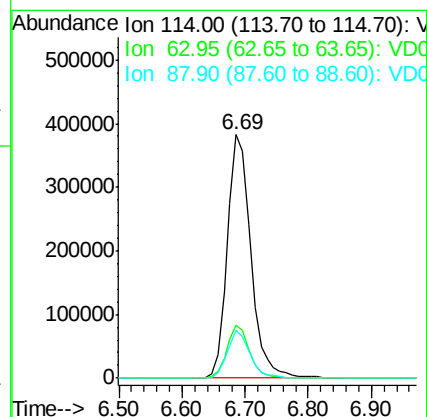
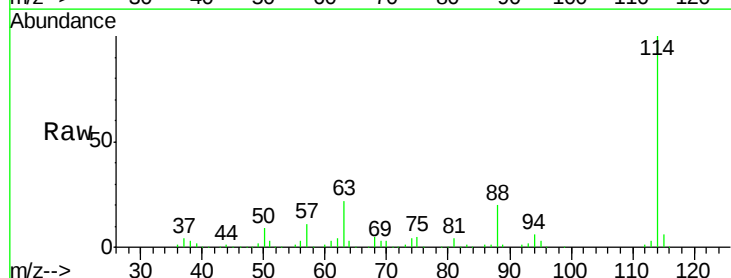
Tgt Ion: 114 Resp: 990727

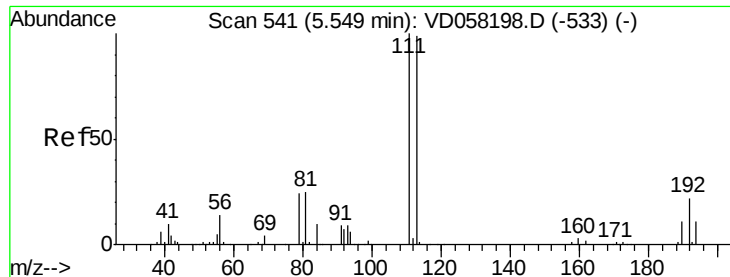
Ion Ratio Lower Upper

114 100

63 21.7 0.0 42.6

88 19.6 0.0 40.6





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 5.54 min Scan# 540

Delta R.T. -0.00 min

Lab File: VD058299.D

Acq: 22 Jun 2018 16:29

Instrument :

MSVOA_D

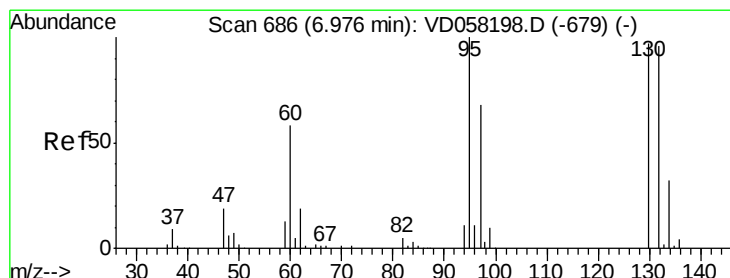
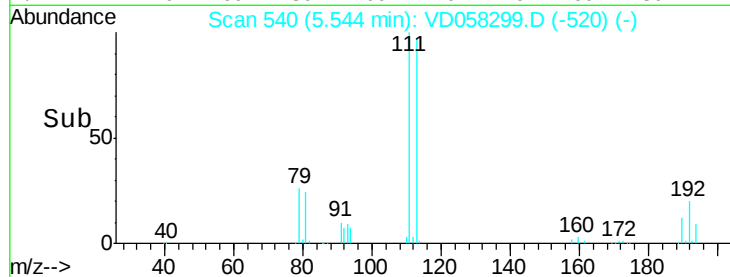
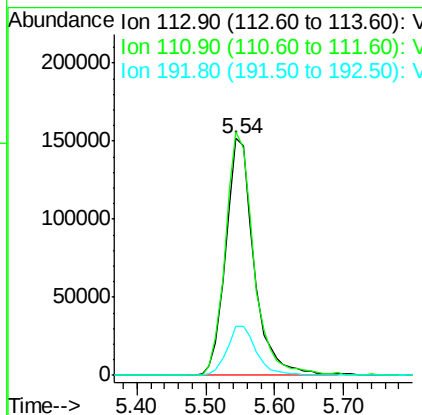
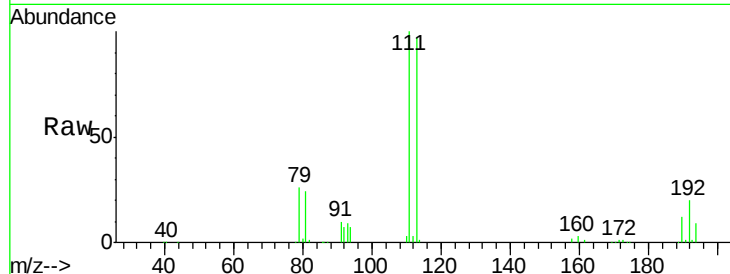
ClientSampleId :

WP021SB472-13-15-180618

Tot Ion:	113	Resp:	431413
Ion	Ratio	Lower	Upper
113	100		
111	102.8	80.6	121.0
192	20.8	17.8	26.6

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#44

Trichloroethene

Concen: 1.27 ug/l

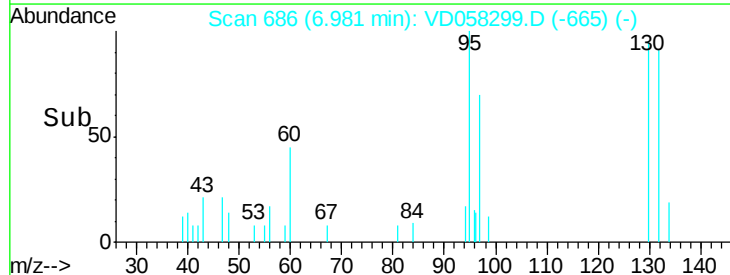
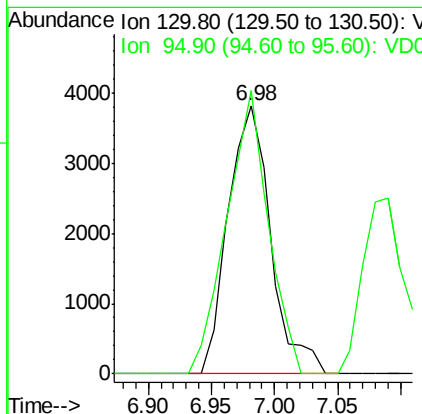
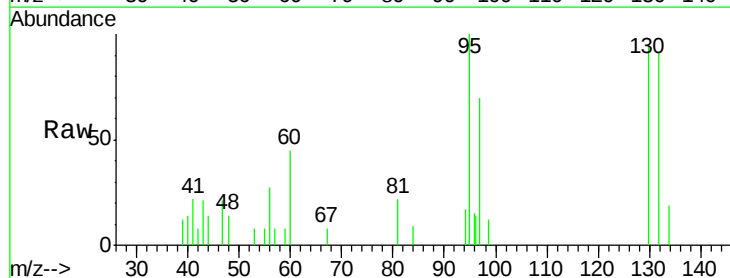
RT: 6.98 min Scan# 686

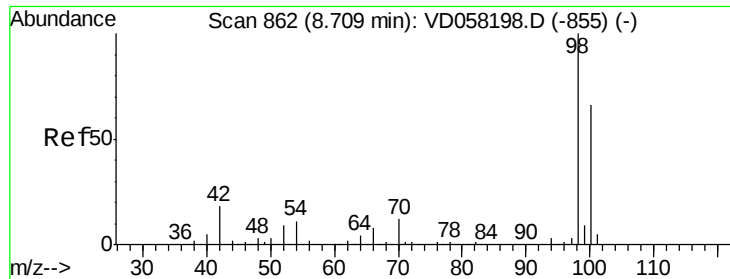
Delta R.T. 0.00 min

Lab File: VD058299.D

Acq: 22 Jun 2018 16:29

Tgt Ion:	130	Resp:	8937
Ion	Ratio	Lower	Upper
130	100		
95	105.4	0.0	205.6





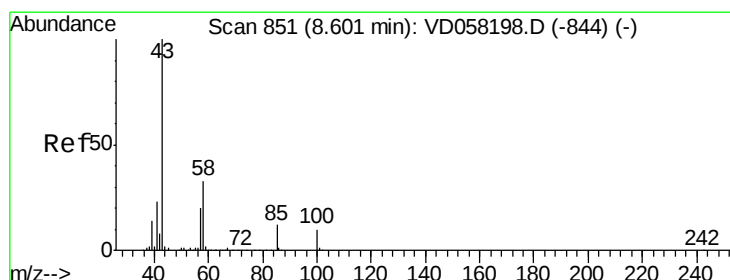
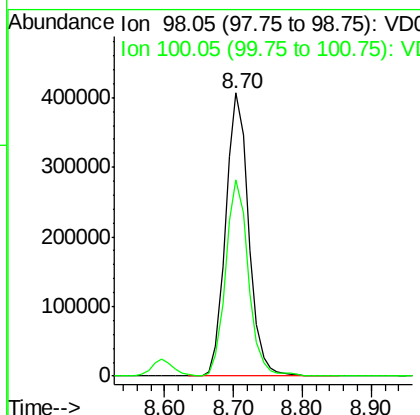
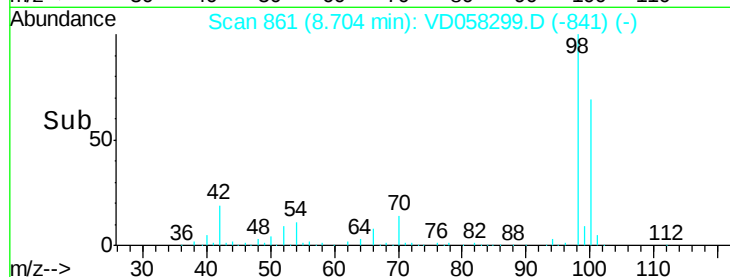
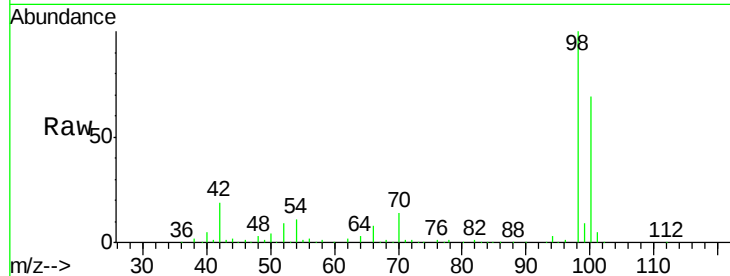
#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.70 min Scan# 861
Delta R.T. -0.00 min
Lab File: VD058299.D
Acq: 22 Jun 2018 16:29

Instrument :
MSVOA_D
ClientSampleId :
WP021SB472-13-15-180618

Tot Ion: 98 Resp: 938042
Ion Ratio Lower Upper
98 100
100 69.4 53.6 80.4

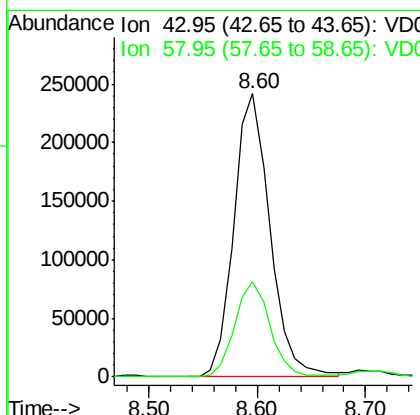
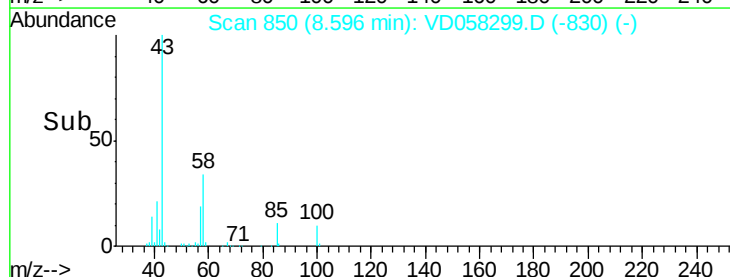
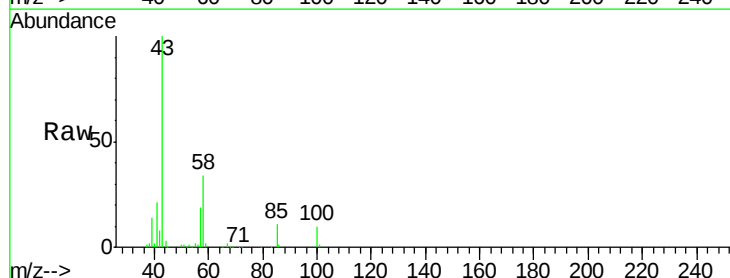
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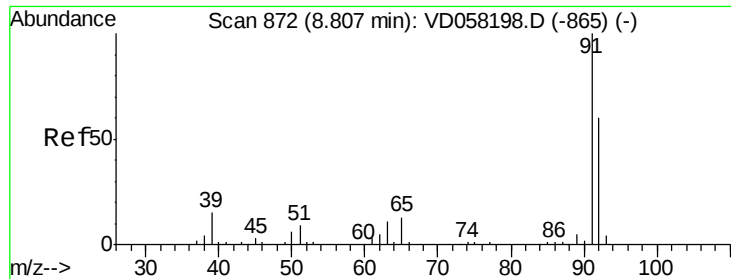
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#51
4-Methyl-2-Pentanone
Concen: 115.73 ug/l
RT: 8.60 min Scan# 850
Delta R.T. -0.00 min
Lab File: VD058299.D
Acq: 22 Jun 2018 16:29

Tgt Ion: 43 Resp: 562012
Ion Ratio Lower Upper
43 100
58 33.6 26.7 40.1





#52

Toluene

Concen: 5.19 ug/l

RT: 8.80 min Scan# 871

Delta R.T. -0.00 min

Lab File: VD058299.D

Acq: 22 Jun 2018 16:29

Instrument :

MSVOA_D

ClientSampleId :

WP021SB472-13-15-180618

Tot Ion: 92 Resp: 68972

Ion Ratio Lower Upper

92 100

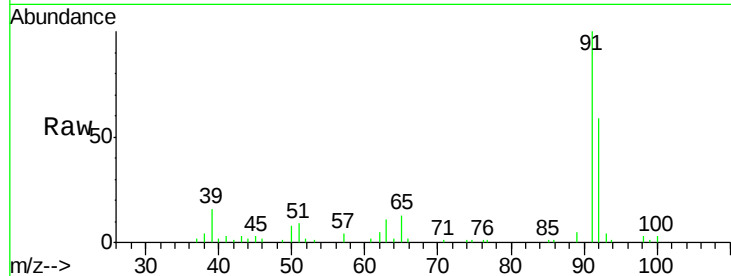
91 170.3 133.2 199.8

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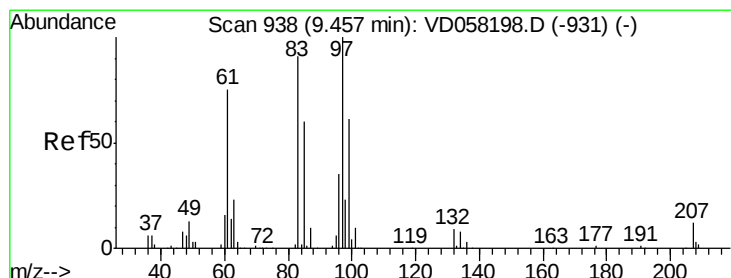
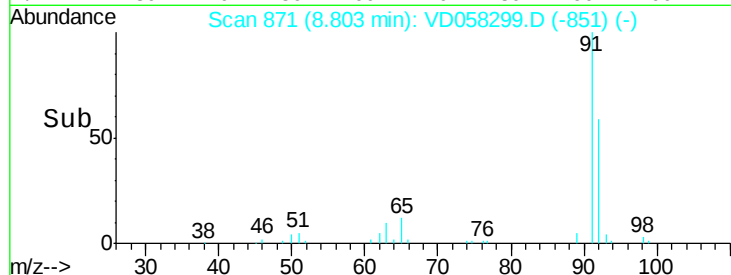
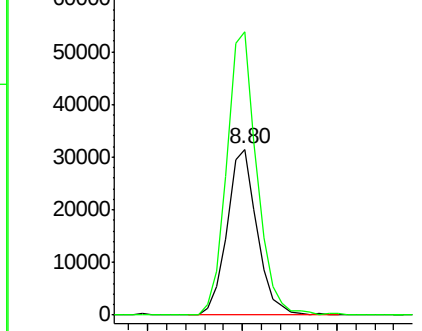
apatel

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Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#55

1,1,2-Trichloroethane

Concen: 1.58 ug/l m

RT: 9.44 min Scan# 936

Delta R.T. -0.01 min

Lab File: VD058299.D

Acq: 22 Jun 2018 16:29

Tgt Ion: 97 Resp: 7435

Ion Ratio Lower Upper

97 100

83 68.4 72.9 109.3#

85 57.8 48.2 72.4

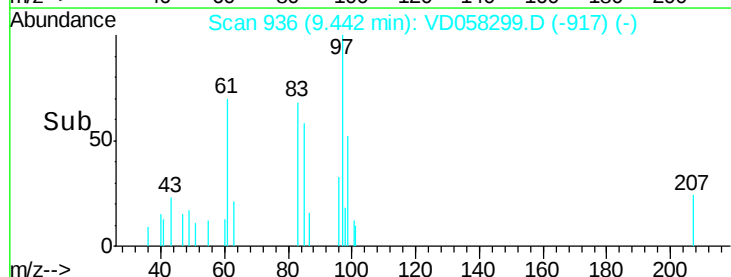
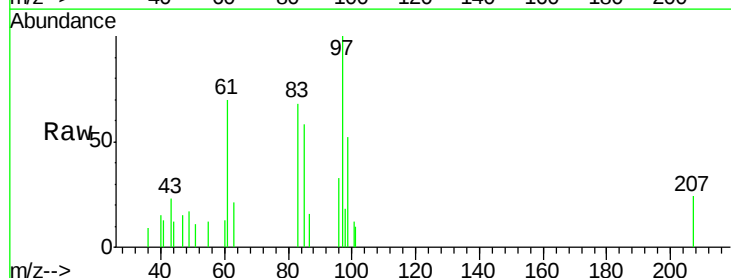
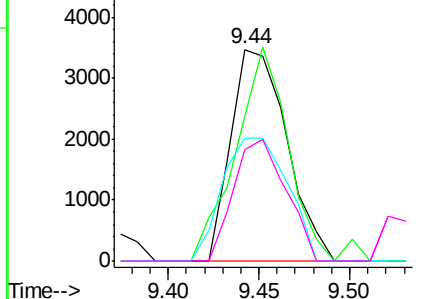
99 52.3 48.9 73.3

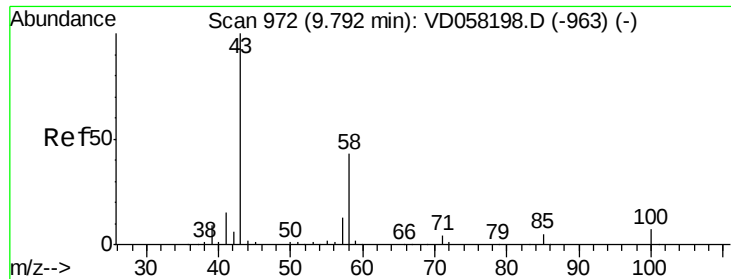
Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC





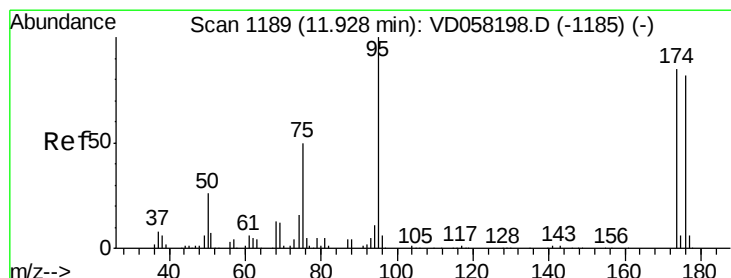
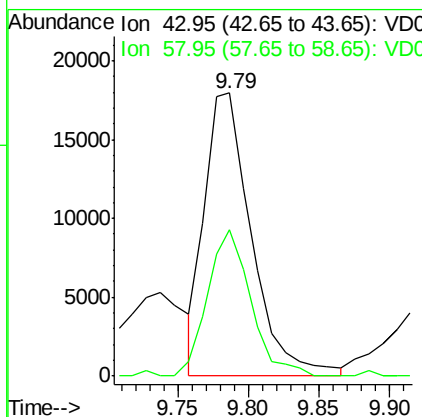
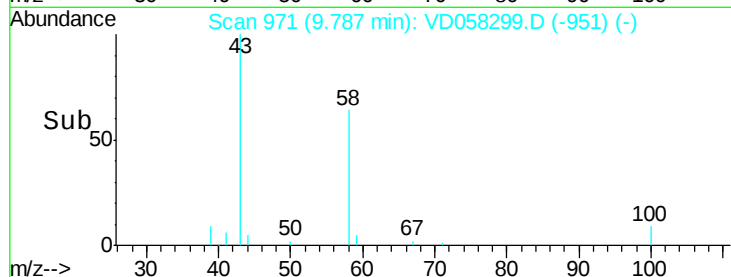
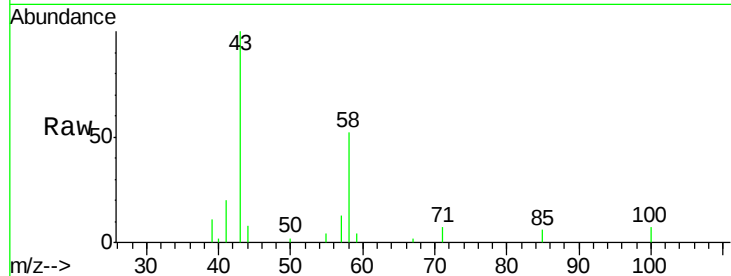
#59
2-Hexanone
Concen: 11.94 ug/l m
RT: 9.79 min Scan# 971
Delta R.T. -0.01 min
Lab File: VD058299.D
Acq: 22 Jun 2018 16:29

Instrument :
MSVOA_D
ClientSampleId :
WP021SB472-13-15-180618

Tot Ion: 43 Resp: 41909
Ion Ratio Lower Upper
43 100
58 51.9 21.7 65.1

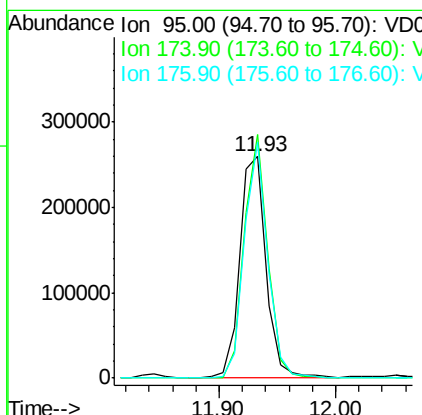
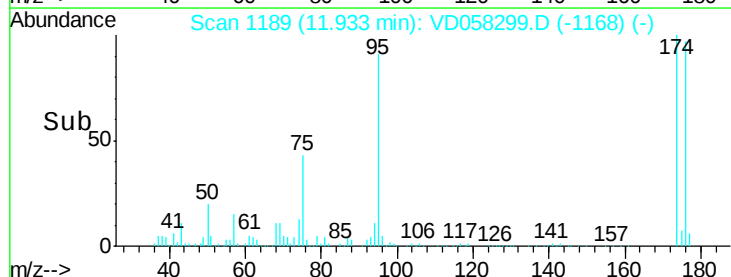
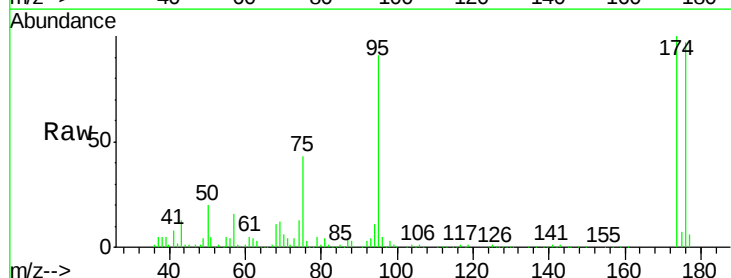
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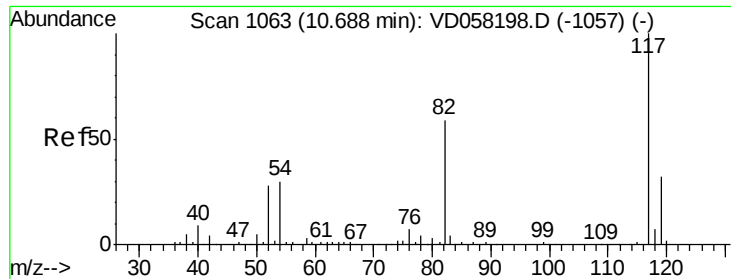
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#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 11.93 min Scan# 1189
Delta R.T. 0.00 min
Lab File: VD058299.D
Acq: 22 Jun 2018 16:29

Tgt Ion: 95 Resp: 403914
Ion Ratio Lower Upper
95 100
174 109.9 0.0 170.2
176 106.7 0.0 164.6





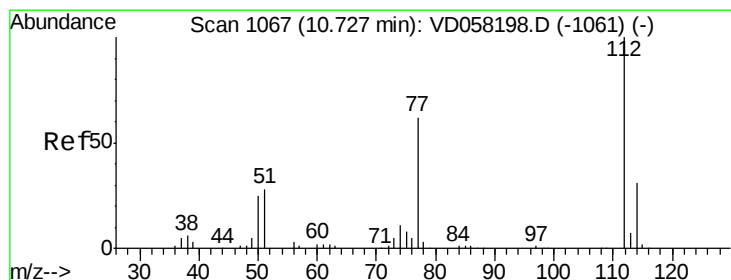
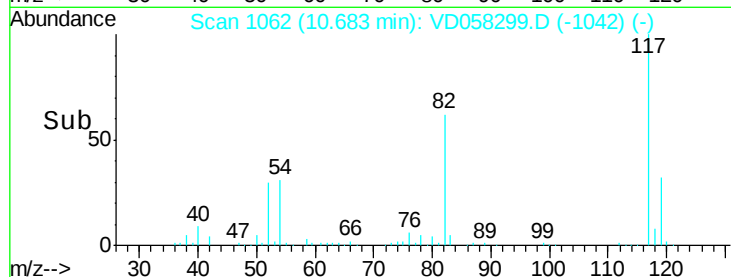
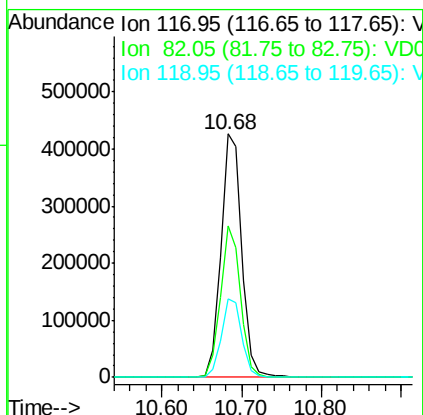
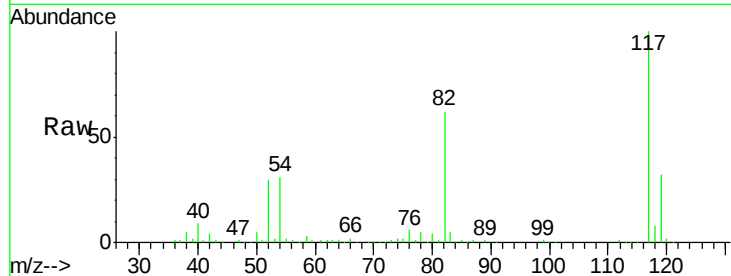
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.68 min Scan# 1062
Delta R.T. -0.00 min
Lab File: VD058299.D
Acq: 22 Jun 2018 16:29

Instrument :
MSVOA_D
ClientSampleId :
WP021SB472-13-15-180618

Tot Ion	Ratio	Lower	Upper
117	100		
82	62.4	47.0	70.6
119	32.4	25.3	37.9

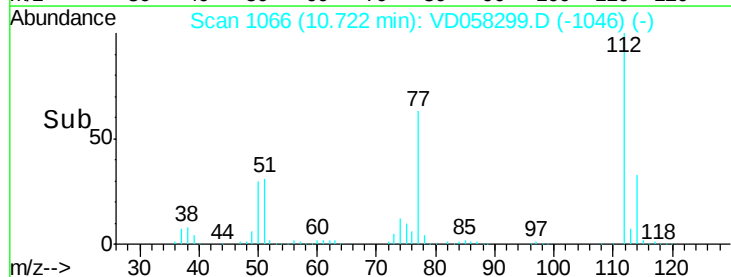
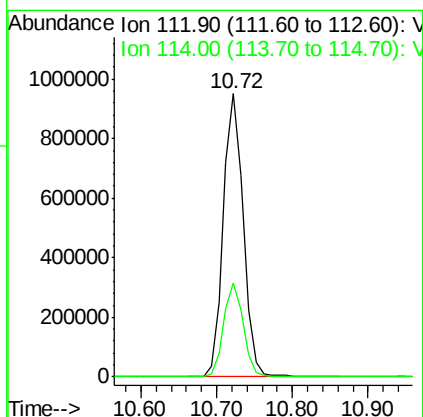
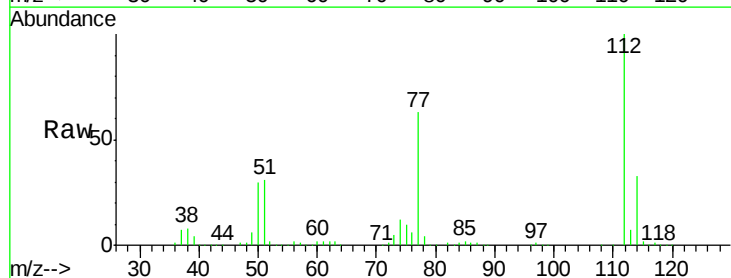
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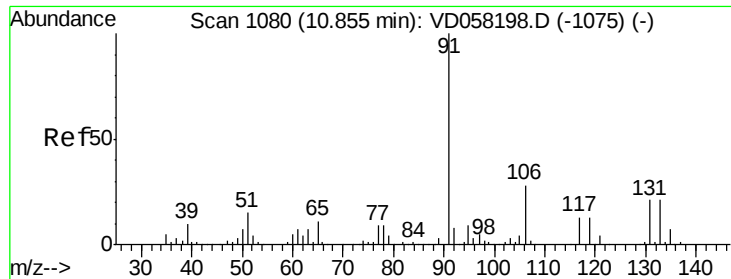
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#65
Chlorobenzene
Concen: 119.38 ug/l
RT: 10.72 min Scan# 1066
Delta R.T. -0.00 min
Lab File: VD058299.D
Acq: 22 Jun 2018 16:29

Tgt Ion	Ratio	Lower	Upper
112	100		
114	33.2	25.0	37.4





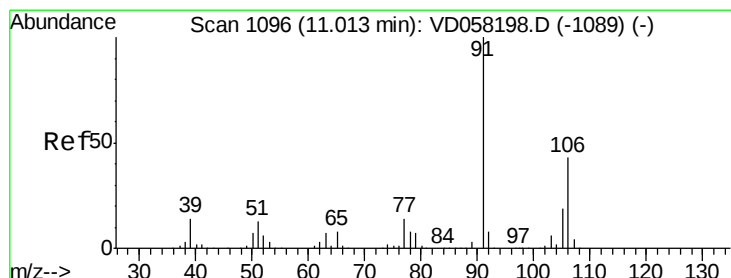
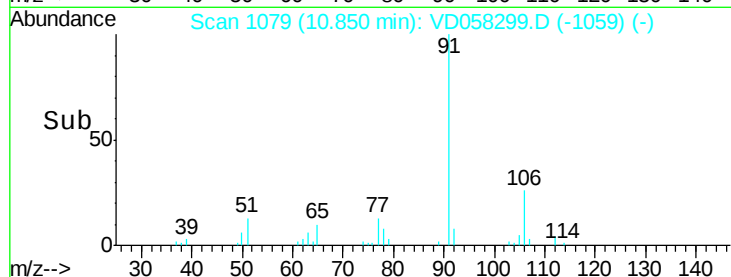
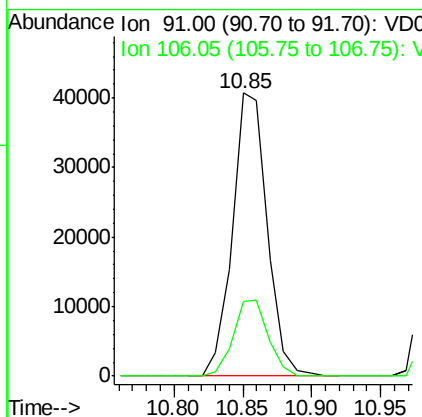
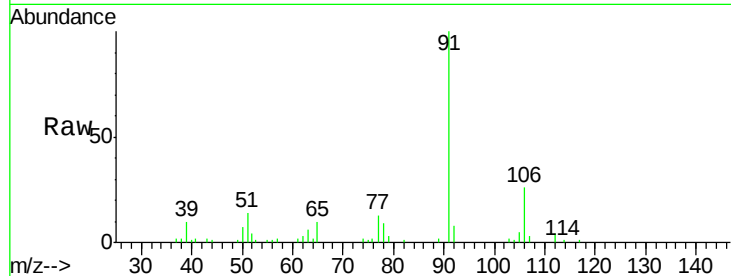
#67
Ethyl Benzene
Concen: 2.76 ug/l
RT: 10.85 min Scan# 1079
Delta R.T. -0.00 min
Lab File: VD058299.D
Acq: 22 Jun 2018 16:29

Instrument :
MSVOA_D
ClientSampleId :
WP021SB472-13-15-180618

Tot Ion: 91 Resp: 71402
Ion Ratio Lower Upper
91 100
106 26.3 22.0 33.0

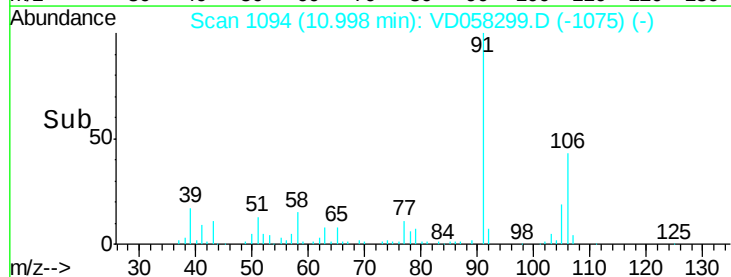
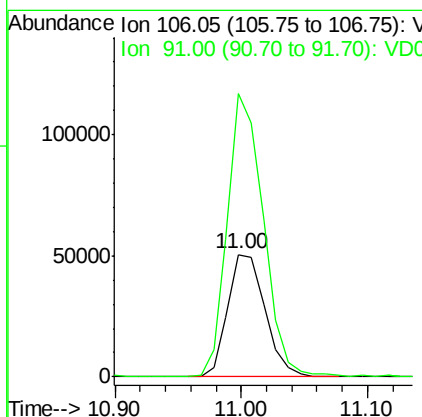
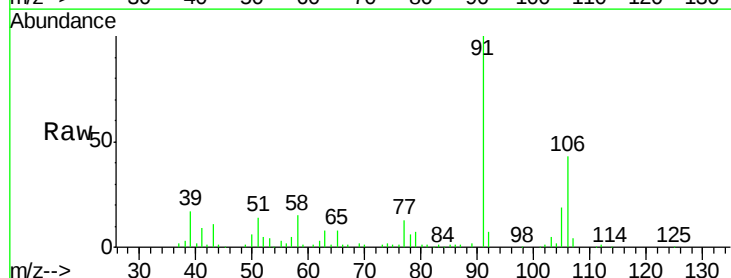
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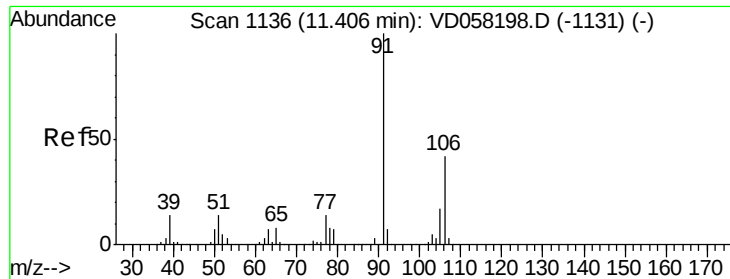
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#68
m/p-Xylenes
Concen: 11.93 ug/l
RT: 11.00 min Scan# 1094
Delta R.T. -0.01 min
Lab File: VD058299.D
Acq: 22 Jun 2018 16:29

Tgt Ion: 106 Resp: 102741
Ion Ratio Lower Upper
106 100
91 231.6 185.0 277.6





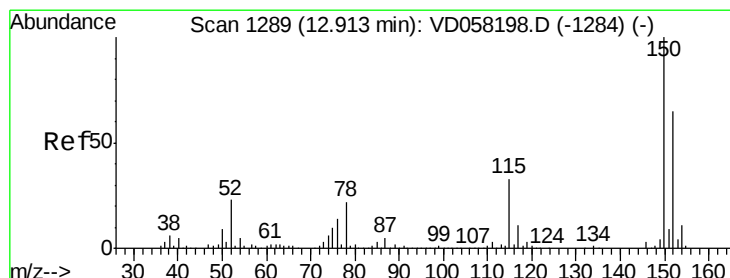
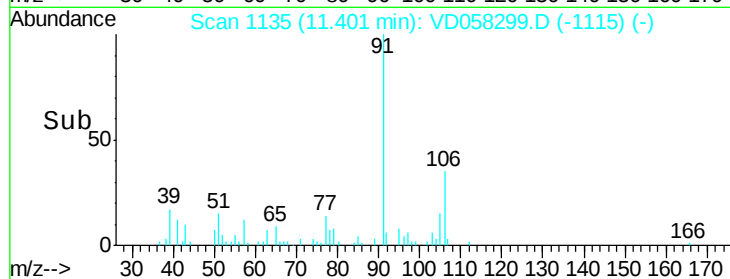
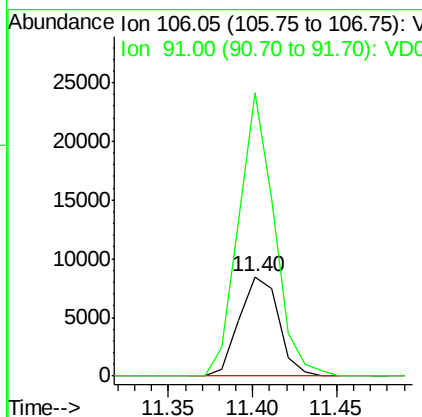
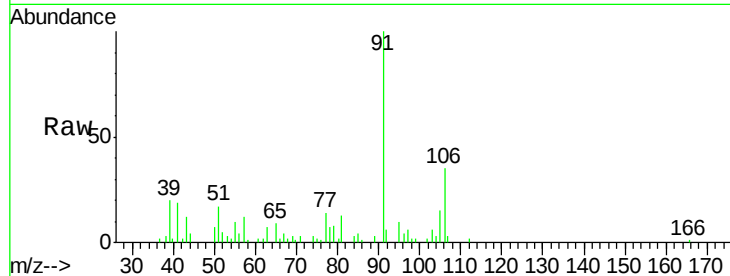
#69
o-Xylene
Concen: 1.66 ug/l
RT: 11.40 min Scan# 1135
Delta R.T. -0.00 min
Lab File: VD058299.D
Acq: 22 Jun 2018 16:29

Instrument :
MSVOA_D
ClientSampleId :
WP021SB472-13-15-180618

Tot Ion:106 Resp: 13639
Ion Ratio Lower Upper
106 100
91 285.2 120.2 360.6

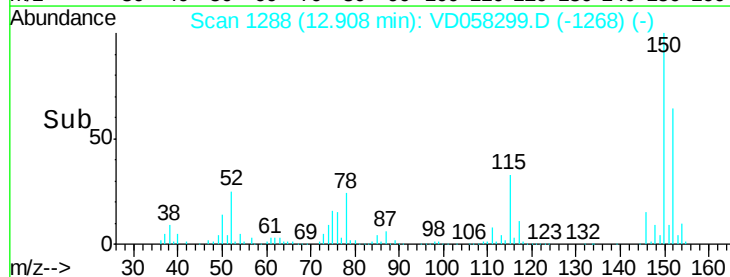
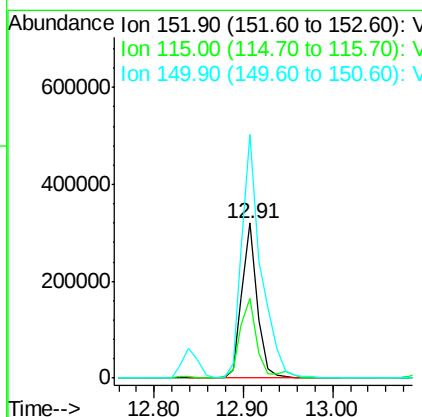
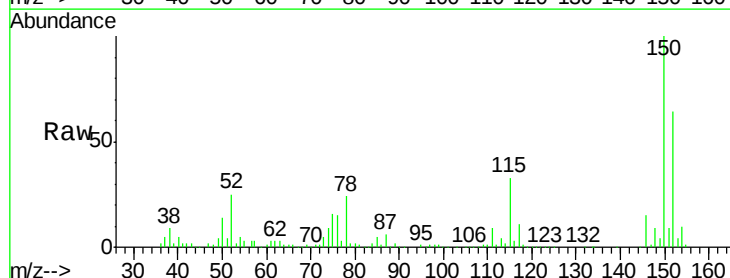
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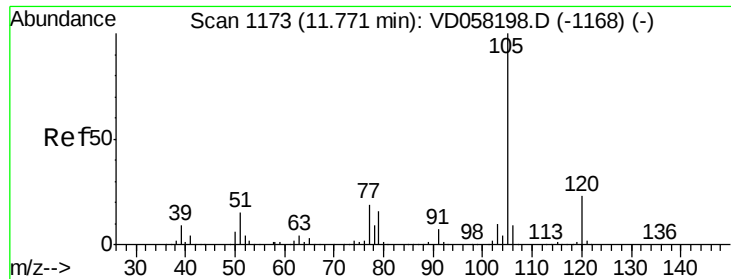
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#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.91 min Scan# 1288
Delta R.T. -0.00 min
Lab File: VD058299.D
Acq: 22 Jun 2018 16:29

Tgt Ion:152 Resp: 387873
Ion Ratio Lower Upper
152 100
115 51.1 25.1 75.3
150 156.9 0.0 308.8





#73

Isopropylbenzene

Concen: 1.29 ug/l

RT: 11.78 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VD058299.D

Acq: 22 Jun 2018 16:29

Instrument :

MSVOA_D

ClientSampleId :

WP021SB472-13-15-180618

Tot Ion: 105 Resp: 29958

Ion Ratio Lower Upper

105 100

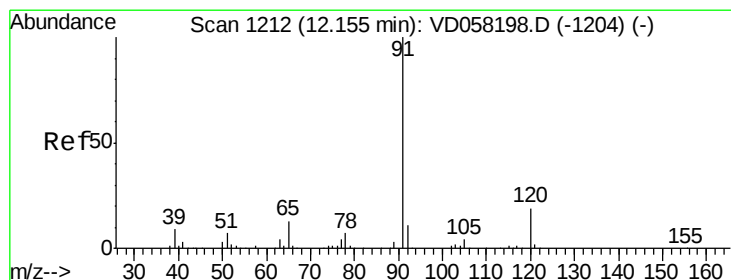
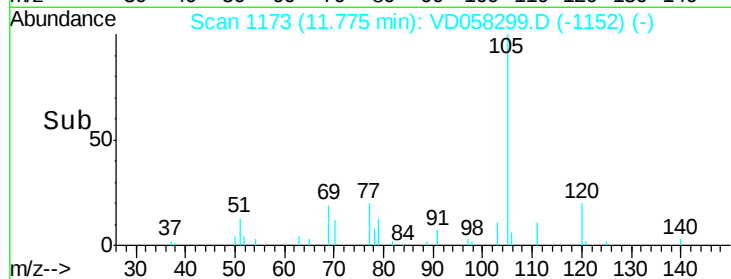
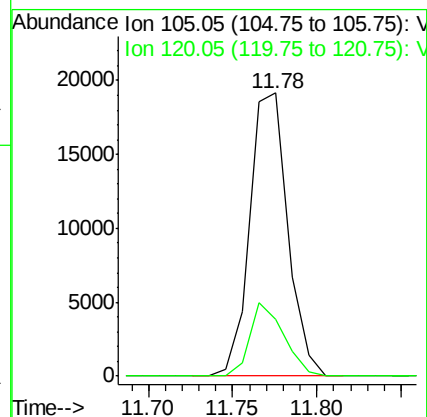
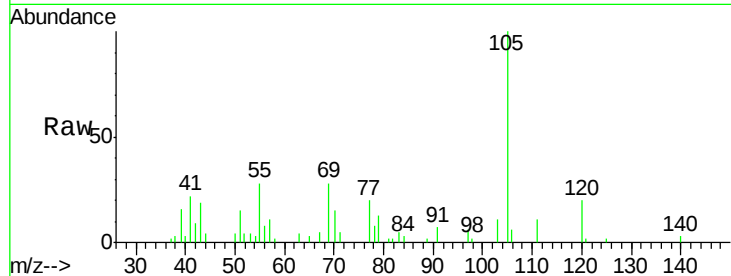
120 22.0 11.6 34.8

Manual Integrations

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#78

n-propylbenzene

Concen: 2.37 ug/l

RT: 12.15 min Scan# 1211

Delta R.T. -0.00 min

Lab File: VD058299.D

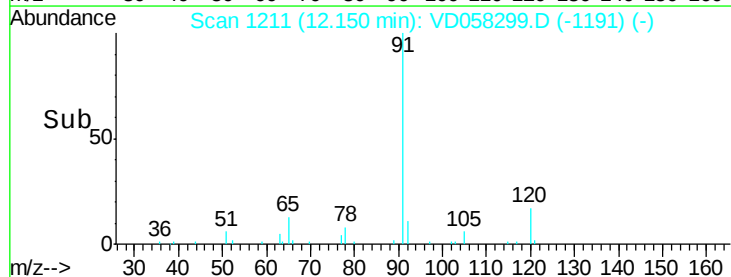
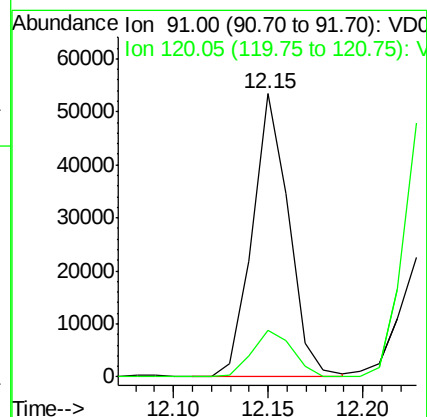
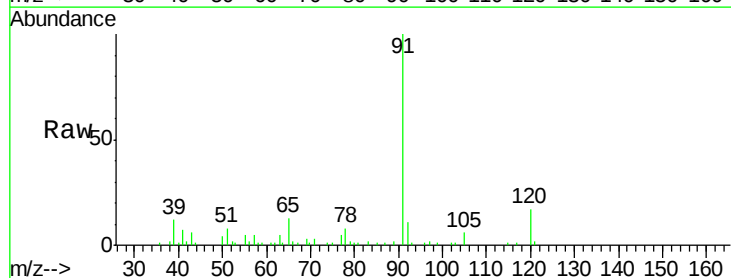
Acq: 22 Jun 2018 16:29

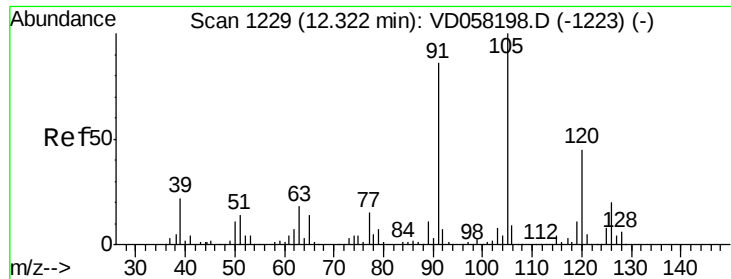
Tgt Ion: 91 Resp: 71096

Ion Ratio Lower Upper

91 100

120 16.5 9.7 29.1





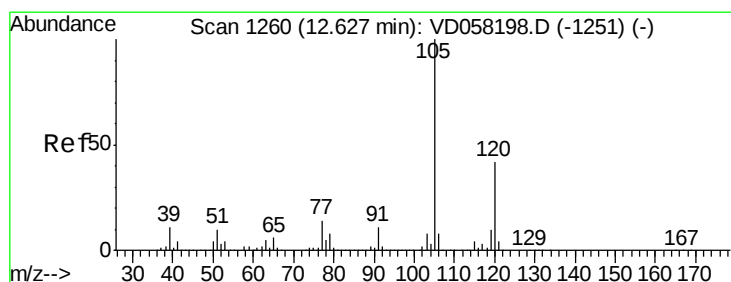
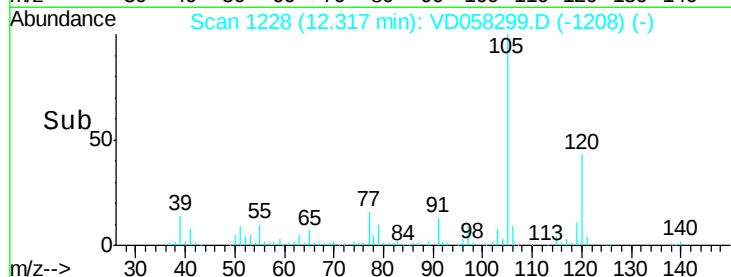
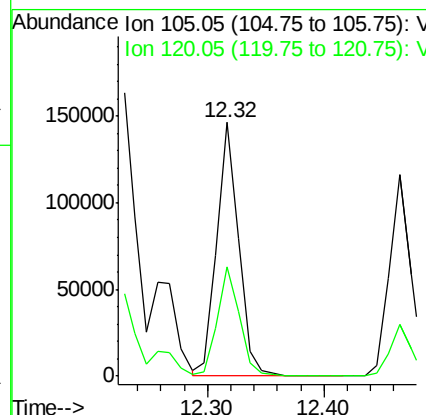
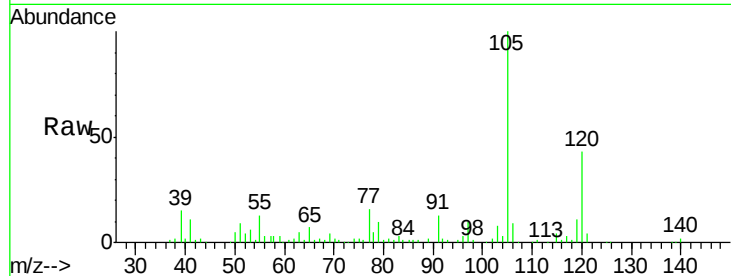
#80
 1,3,5-Trimethylbenzene
 Concen: 10.56 ug/l
 RT: 12.32 min Scan# 1228
 Delta R.T. -0.01 min
 Lab File: VD058299.D
 Acq: 22 Jun 2018 16:29

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB472-13-15-180618

Tot Ion:105 Resp: 191105
 Ion Ratio Lower Upper
 105 100
 120 43.2 22.5 67.5

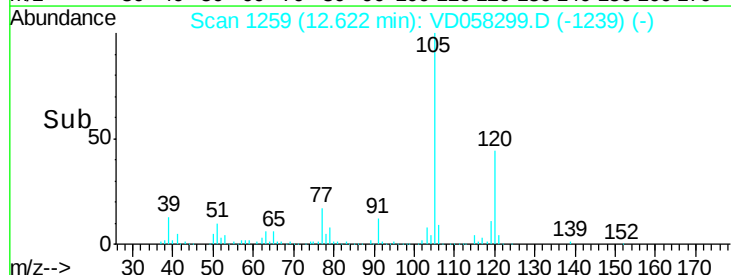
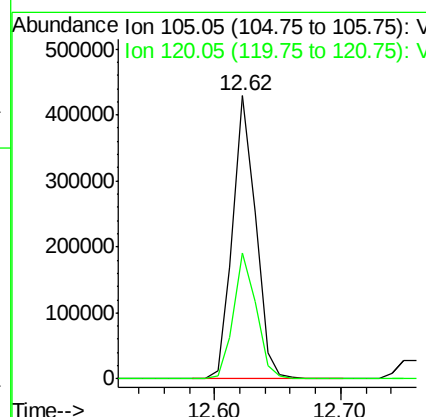
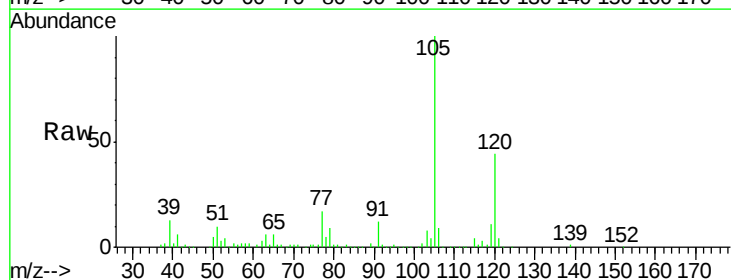
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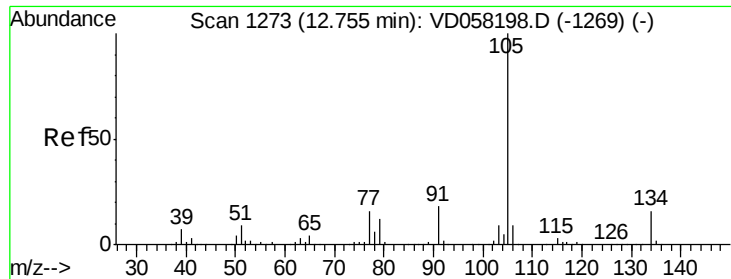
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#84
 1,2,4-Trimethylbenzene
 Concen: 27.57 ug/l
 RT: 12.62 min Scan# 1259
 Delta R.T. -0.00 min
 Lab File: VD058299.D
 Acq: 22 Jun 2018 16:29

Tgt Ion:105 Resp: 542402
 Ion Ratio Lower Upper
 105 100
 120 44.3 20.8 62.4





#85

sec-Butylbenzene

Concen: 1.88 ug/l

RT: 12.75 min Scan# 1272

Delta R.T. -0.00 min

Lab File: VD058299.D

Acq: 22 Jun 2018 16:29

Instrument :

MSVOA_D

ClientSampleId :

WP021SB472-13-15-180618

Tot Ion:105 Resp: 45916

Ion Ratio Lower Upper

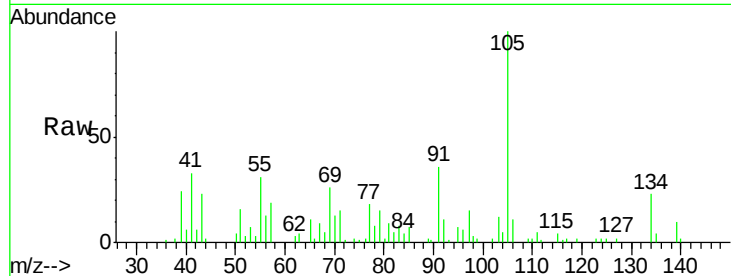
105 100

134 22.6 8.1 24.3

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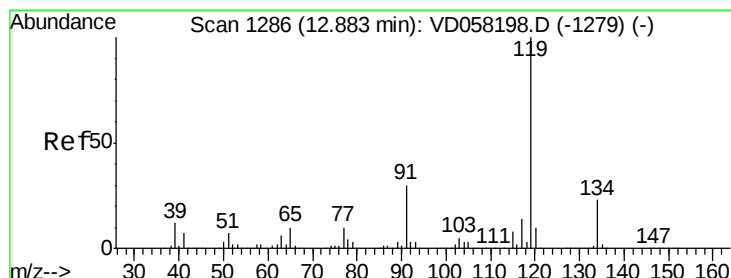
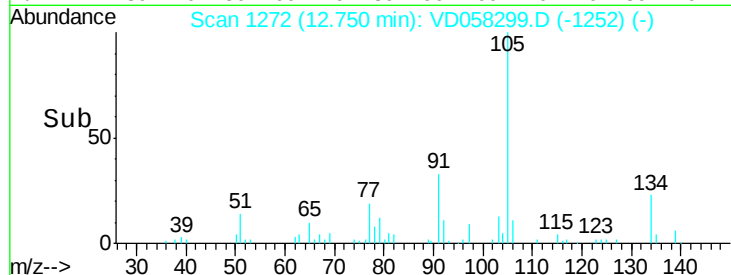
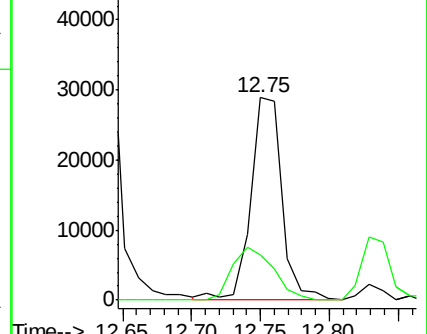
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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 1.42 ug/l

RT: 12.89 min Scan# 1286

Delta R.T. 0.00 min

Lab File: VD058299.D

Acq: 22 Jun 2018 16:29

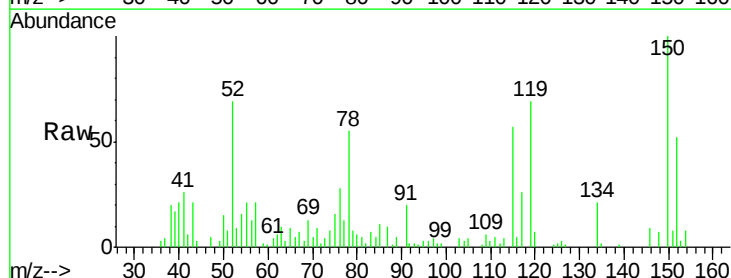
Tgt Ion:119 Resp: 28116

Ion Ratio Lower Upper

119 100

134 30.2 11.6 34.8

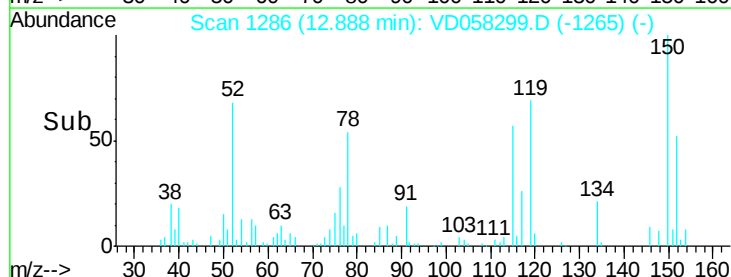
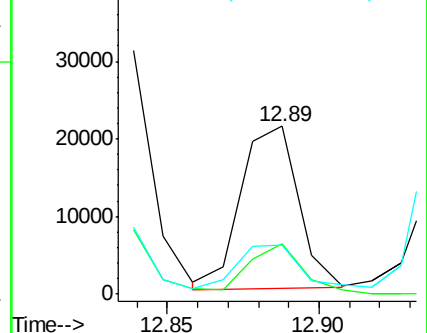
91 29.2 15.0 45.1

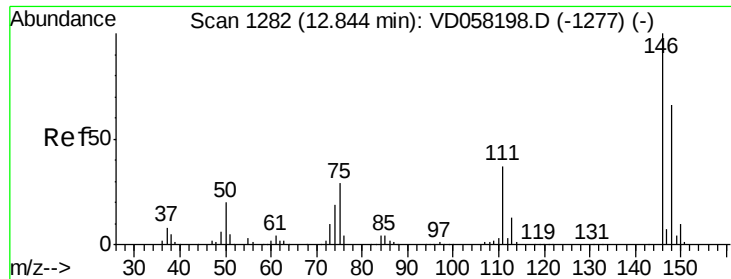


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V





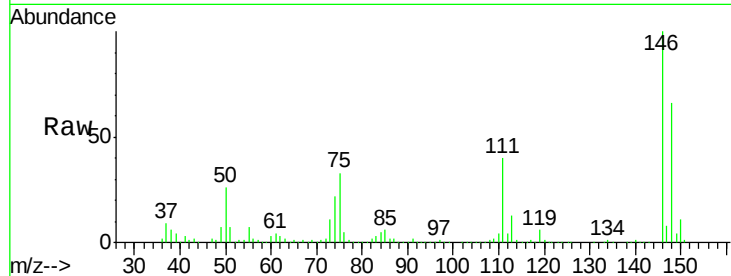
#87
 1,3-Dichlorobenzene
 Concen: 61.33 ug/l
 RT: 12.84 min Scan# 1281
 Delta R.T. -0.00 min
 Lab File: VD058299.D
 Acq: 22 Jun 2018 16:29

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB472-13-15-180618

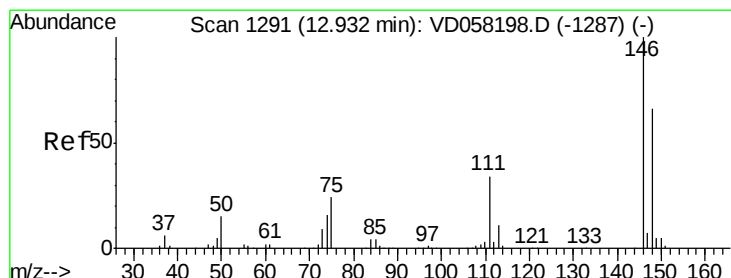
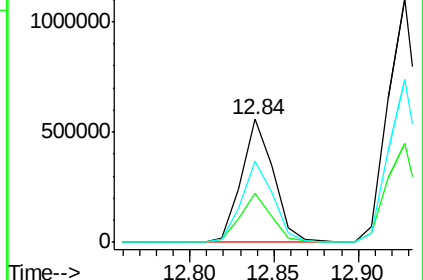
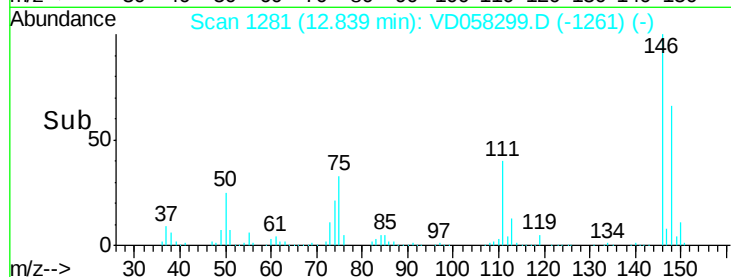
Tot Ion	Ratio	Lower	Upper
146	100		
111	40.0	18.4	55.0
148	66.0	32.8	98.4

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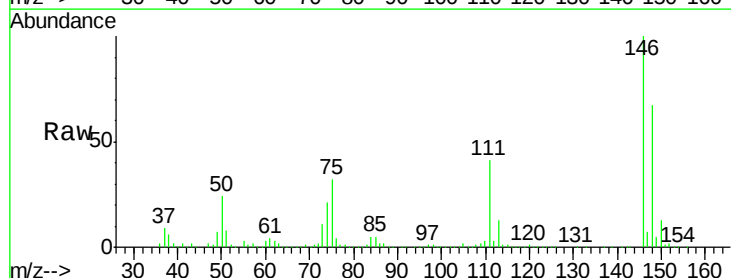


Abundance Ion 145.95 (145.65 to 146.65): V
 1500000 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

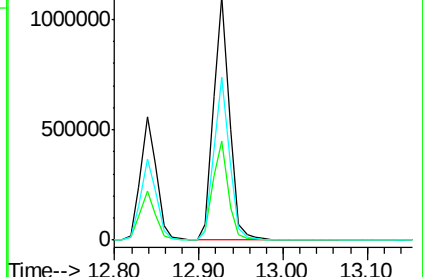
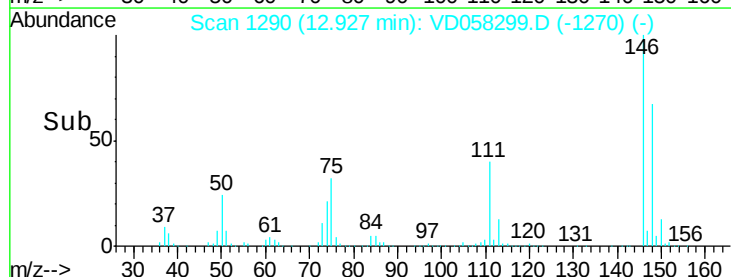


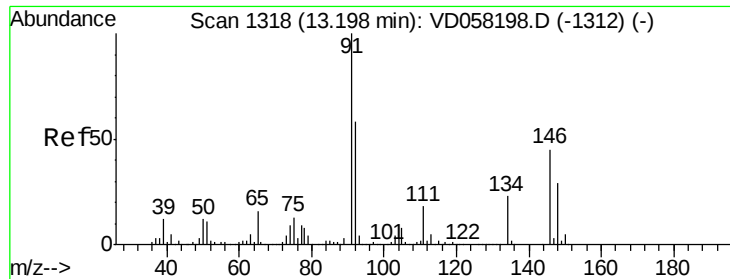
#88
 1,4-Dichlorobenzene
 Concen: 123.14 ug/l
 RT: 12.93 min Scan# 1290
 Delta R.T. -0.01 min
 Lab File: VD058299.D
 Acq: 22 Jun 2018 16:29

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.5	17.2	51.5
148	67.1	33.1	99.3



Abundance Ion 145.95 (145.65 to 146.65): V
 1500000 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V





#91
 1,2-Dichlorobenzene
 Concen: 578.99 ug/l
 RT: 13.20 min Scan# 1318
 Delta R.T. 0.00 min
 Lab File: VD058299.D
 Acq: 22 Jun 2018 16:29

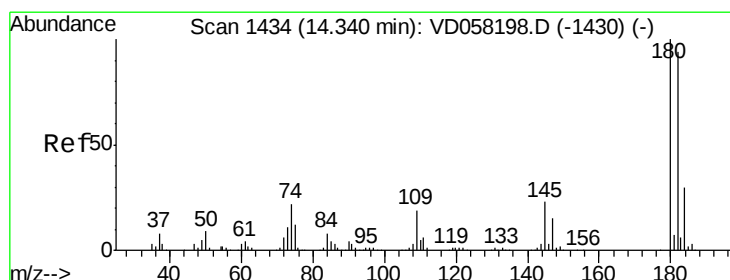
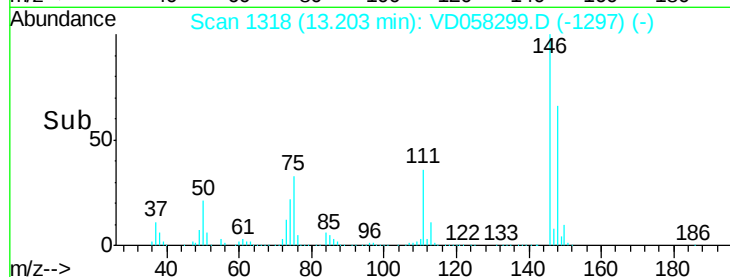
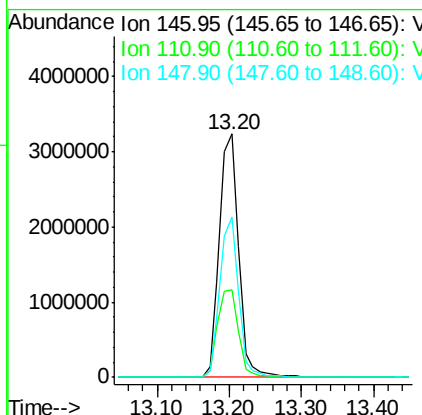
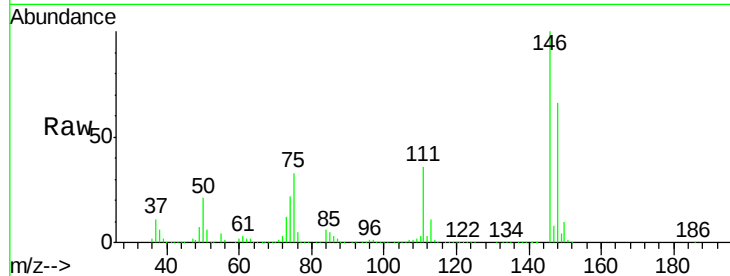
Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB472-13-15-180618

Tot Ion:146 Resp: 5949680

Ion	Ratio	Lower	Upper
146	100		
111	36.0	19.6	58.7
148	66.0	32.0	96.2

Manual Integrations
 APPROVED

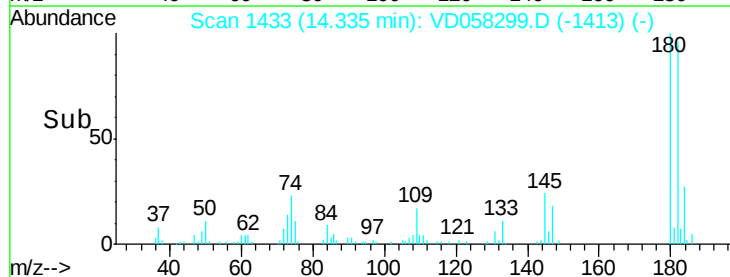
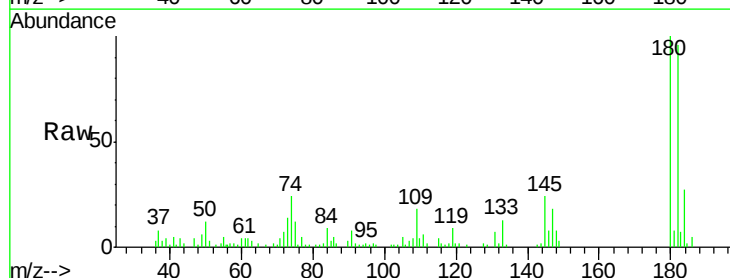
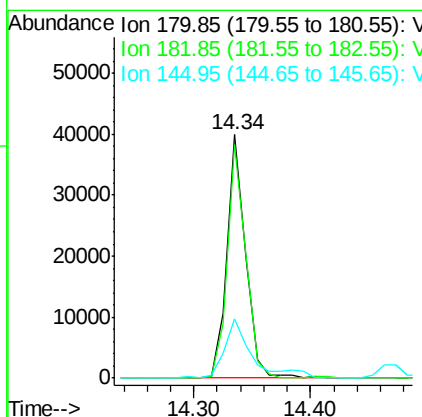
apatel
 6/29/2018 2:36:41 PM

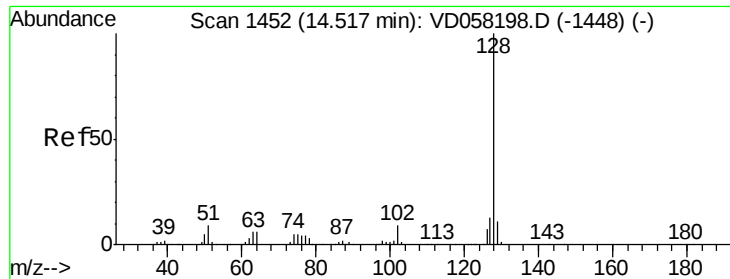


#93
 1,2,4-Trichlorobenzene
 Concen: 4.53 ug/l
 RT: 14.34 min Scan# 1433
 Delta R.T. -0.00 min
 Lab File: VD058299.D
 Acq: 22 Jun 2018 16:29

Tgt Ion:180 Resp: 44510

Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.1	141.3
145	24.5	11.7	35.0





#95

Naphthalene

Concen: 31.33 ug/l

RT: 14.51 min Scan# 1451

Delta R.T. -0.01 min

Lab File: VD058299.D

Acq: 22 Jun 2018 16:29

Instrument :

MSVOA_D

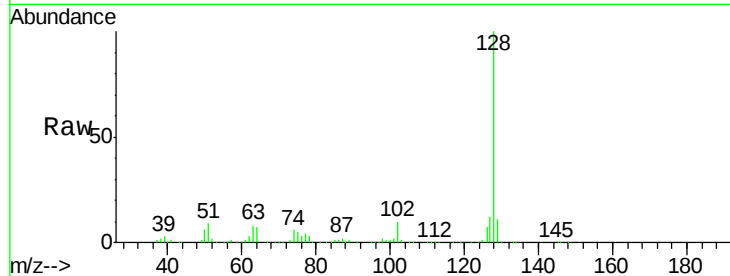
ClientSampleId :

WP021SB472-13-15-180618

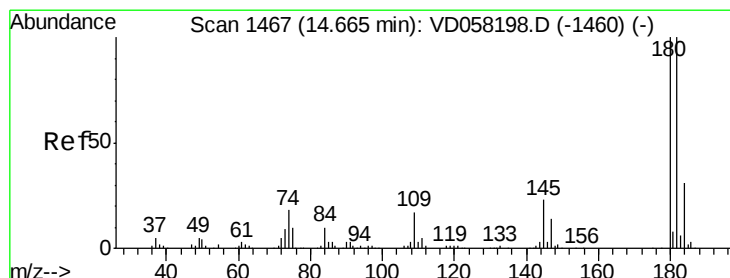
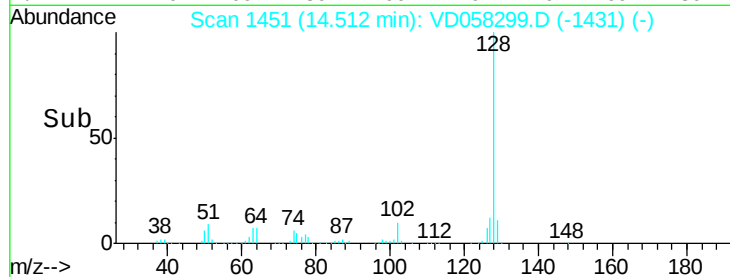
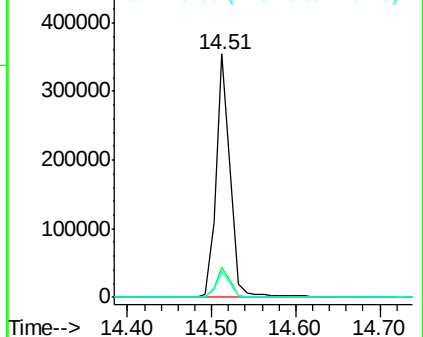
Tot Ion:	128	Resp:	405541
Ion Ratio	Lower	Upper	
128	100		
127	12.5	10.0	15.0
129	10.9	8.7	13.1

Manual Integrations
APPROVED

apatel
6/29/2018 2:36:41 PM



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 1.06 ug/l

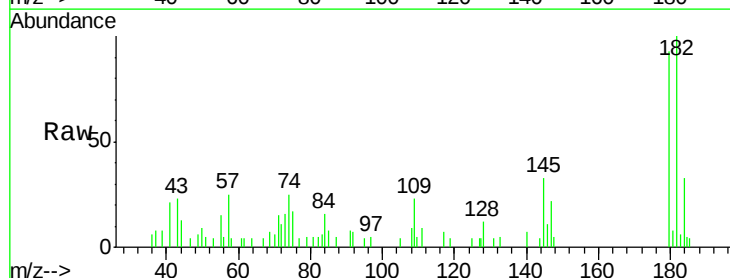
RT: 14.66 min Scan# 1466

Delta R.T. -0.00 min

Lab File: VD058299.D

Acq: 22 Jun 2018 16:29

Tgt Ion:	180	Resp:	9138
Ion Ratio	Lower	Upper	
180	100		
182	108.0	49.9	149.6
145	35.6	11.7	35.1#



Abundance Ion 179.85 (179.55 to 180.55): V
Ion 181.85 (181.55 to 182.55): V
Ion 144.95 (144.65 to 145.65): V

