

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX062718\
 Data File : VX002936.D
 Acq On : 27 Jun 2018 15:11
 Operator : JC/MD
 Sample : J3707-02
 Misc : 5.97µ/5mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WP021SB488-23-25-180622

Manual Integrations
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 6/28/2018 4:47:54 PM

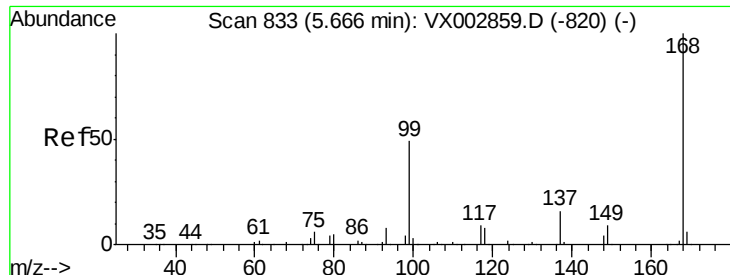
Quant Time: Jun 28 14:59:21 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	244166	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	347055	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	340335	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	231163	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	165700	49.10	ug/l	0.00
Spiked Amount 50.000			Recovery =	98.20%		
35) Dibromofluoromethane	5.51	113	125376	45.62	ug/l	0.00
Spiked Amount 50.000			Recovery =	91.24%		
50) Toluene-d8	8.72	98	498875	49.71	ug/l	0.00
Spiked Amount 50.000			Recovery =	99.42%		
62) 4-Bromofluorobenzene	11.15	95	216401	55.91	ug/l	0.00
Spiked Amount 50.000			Recovery =	111.82%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	687496	248.98	ug/l	99
18) Methyl Acetate	2.80	43	18023	4.61	ug/l #	89
24) 1,1-Dichloroethane	3.68	63	17008	3.45	ug/l	96
27) cis-1,2-Dichloroethene	4.59	96	1551	0.53	ug/l	84
29) Tetrahydrofuran	5.20	42	11145	8.38	ug/l	95
31) Cyclohexane	5.56	56	23567	5.57	ug/l	97
39) Methylcyclohexane	7.46	83	62477	14.09	ug/l	95
40) Benzene	6.14	78	22460	2.03	ug/l	98
52) Toluene	8.79	92	1247260	176.06	ug/l	99
65) Chlorobenzene	10.14	112	36740	4.25	ug/l	97
67) Ethyl Benzene	10.26	91	83611	5.86	ug/l	98
68) m/p-Xylenes	10.36	106	154813	28.13	ug/l	100
69) o-Xylene	10.70	106	64957	12.12	ug/l	98
73) Isopropylbenzene	11.02	105	45496	2.93	ug/l	100
78) n-propylbenzene	11.37	91	99379	5.61	ug/l	98
80) 1,3,5-Trimethylbenzene	11.51	105	266015	20.31	ug/l	100
84) 1,2,4-Trimethylbenzene	11.81	105	645640	47.58	ug/l	98
85) sec-Butylbenzene	11.95	105	77825	4.97	ug/l	97
86) p-Isopropyltoluene	12.07	119	71893	5.11	ug/l	100
87) 1,3-Dichlorobenzene	12.03	146	41123m	5.08	ug/l	
88) 1,4-Dichlorobenzene	12.10	146	88292	10.61	ug/l #	83
89) n-Butylbenzene	12.39	91	161507	13.18	ug/l #	39
91) 1,2-Dichlorobenzene	12.40	146	258629	31.68	ug/l	95
93) 1,2,4-Trichlorobenzene	13.65	180	4481	0.75	ug/l #	66
95) Naphthalene	13.84	128	359293	22.71	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.01 min

Lab File: VX002936.D

Acq: 27 Jun 2018 15:11

Instrument :

MSVOA_X

ClientSampleId :

WP021SB488-23-25-180622

Tot Ion:168 Resp: 244166

Ion Ratio Lower Upper

168 100

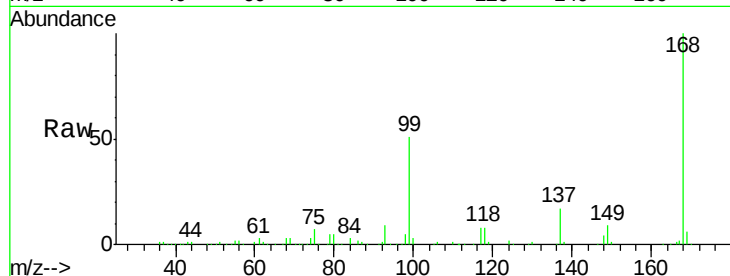
99 50.9 39.3 58.9

Manual Integrations

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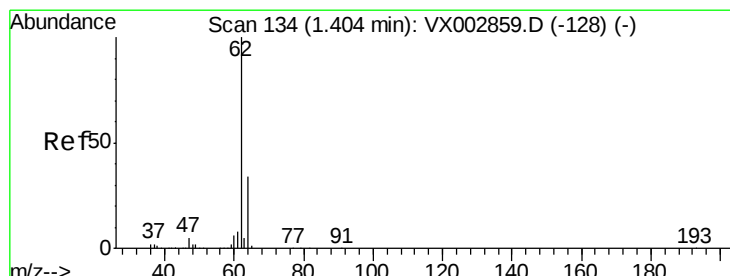
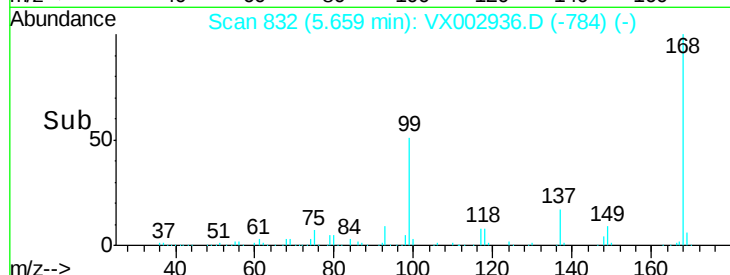
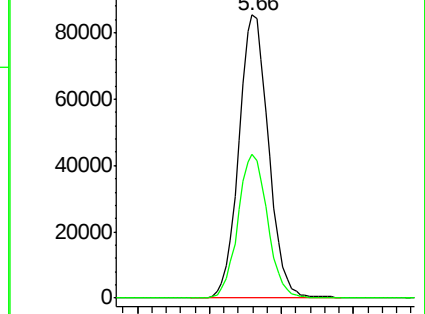
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 248.98 ug/l

RT: 1.41 min Scan# 135

Delta R.T. 0.01 min

Lab File: VX002936.D

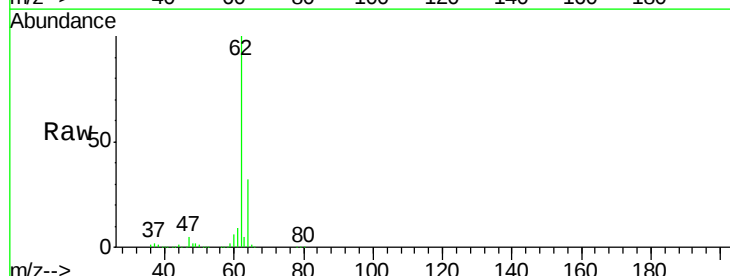
Acq: 27 Jun 2018 15:11

Tgt Ion: 62 Resp: 687496

Ion Ratio Lower Upper

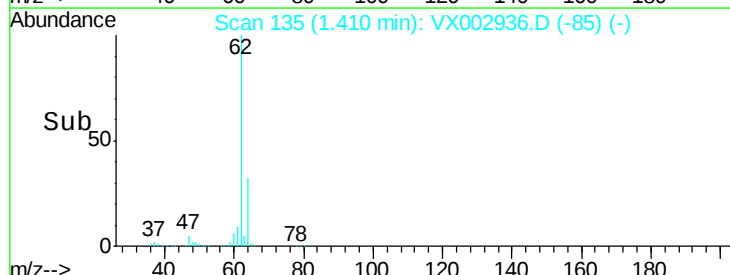
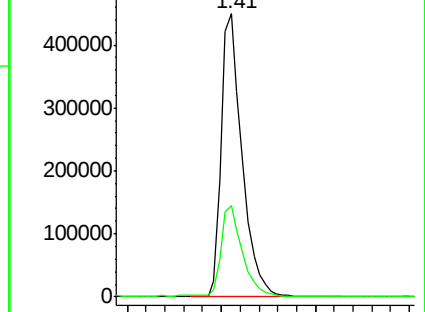
62 100

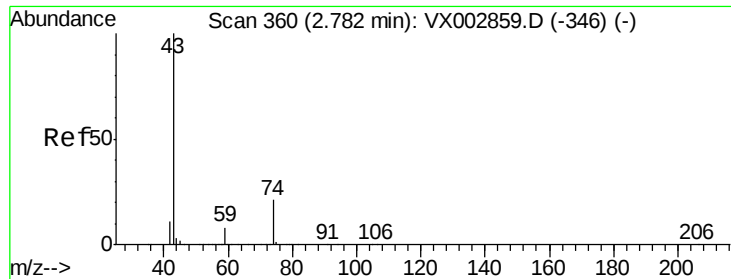
64 32.4 25.4 38.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





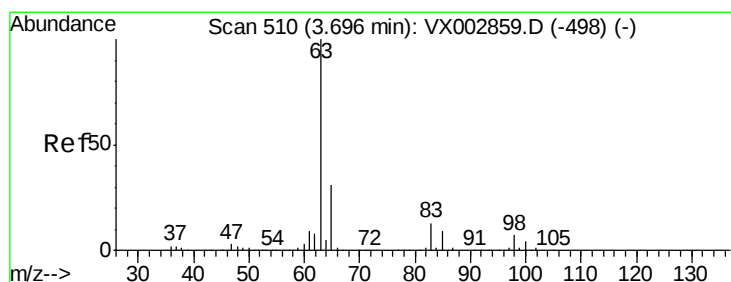
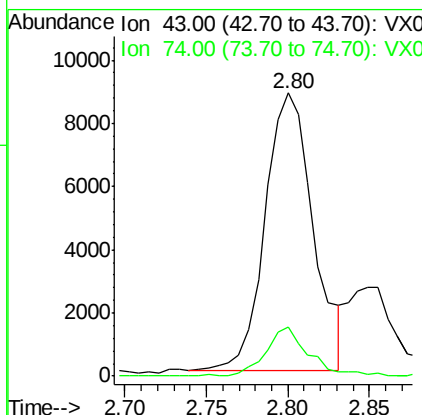
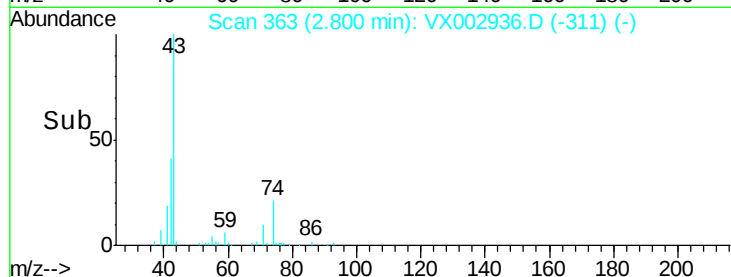
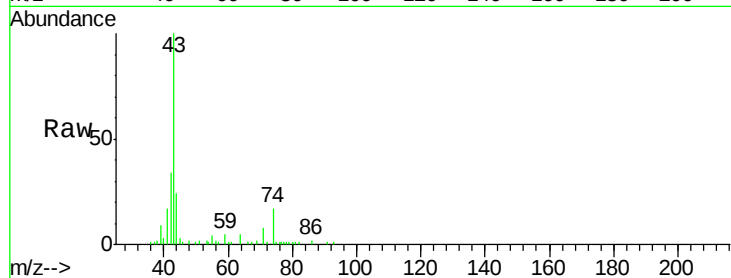
#18
Methvl Acetate
Concen: 4.61 ug/l
RT: 2.80 min Scan# 363
Delta R.T. 0.02 min
Lab File: VX002936.D
Acq: 27 Jun 2018 15:11

Instrument :
MSVOA_X
ClientSampleId :
WP021SB488-23-25-180622

Tot Ion: 43 Resp: 18023
Ion Ratio Lower Upper
43 100
74 15.7 16.7 25.1#

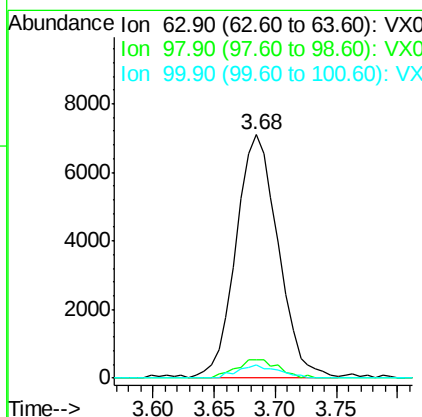
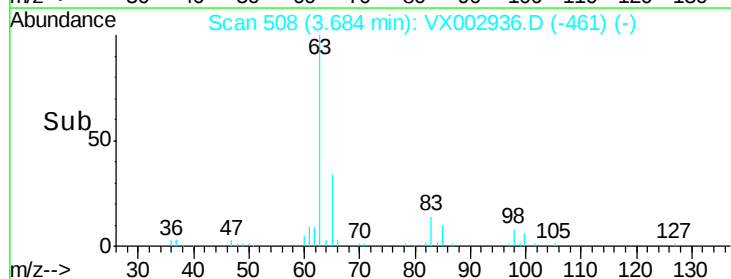
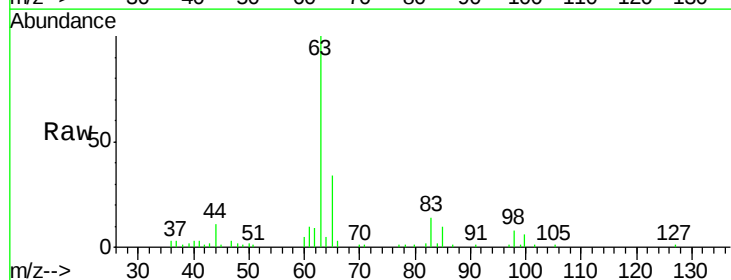
Manual Integrations
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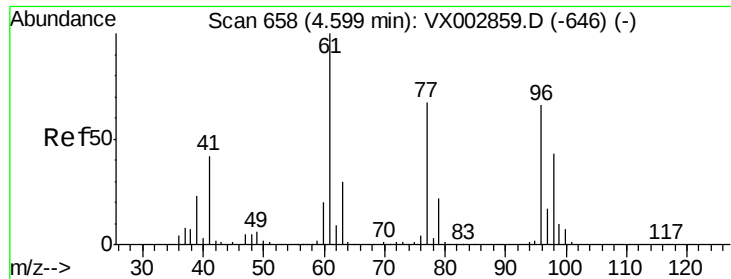
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#24
1,1-Dichloroethane
Concen: 3.45 ug/l
RT: 3.68 min Scan# 508
Delta R.T. -0.01 min
Lab File: VX002936.D
Acq: 27 Jun 2018 15:11

Tgt Ion: 63 Resp: 17008
Ion Ratio Lower Upper
63 100
98 7.8 3.4 10.2
100 5.6 2.0 6.0





#27

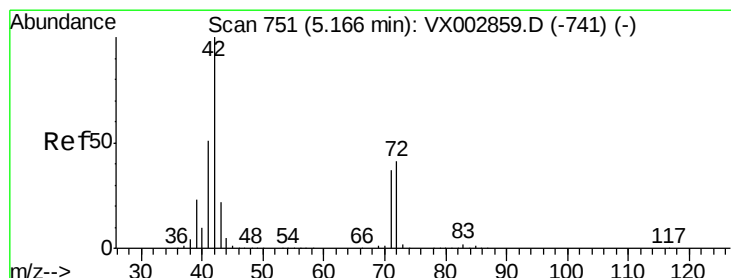
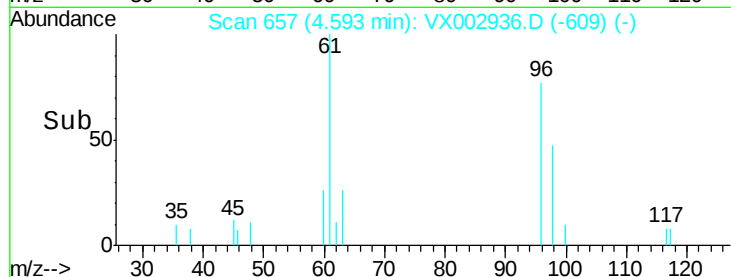
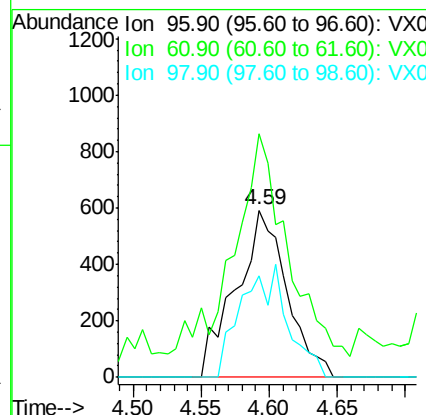
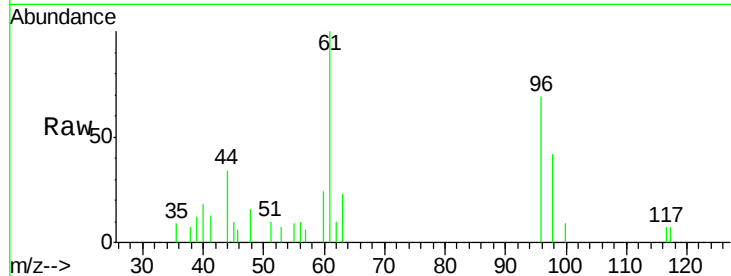
cis-1,2-Dichloroethene
Concen: 0.53 ug/l
RT: 4.59 min Scan# 657
Delta R.T. -0.01 min
Lab File: VX002936.D
Acq: 27 Jun 2018 15:11

Instrument :
MSVOA_X
ClientSampleId :
WP021SB488-23-25-180622

Tot Ion	Ratio	Lower	Upper
96	100		
61	137.6	0.0	330.2
98	61.1	0.0	130.2

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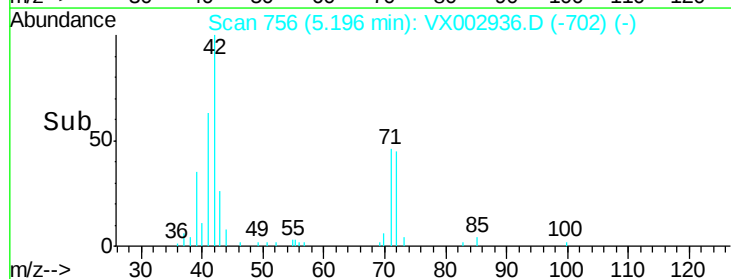
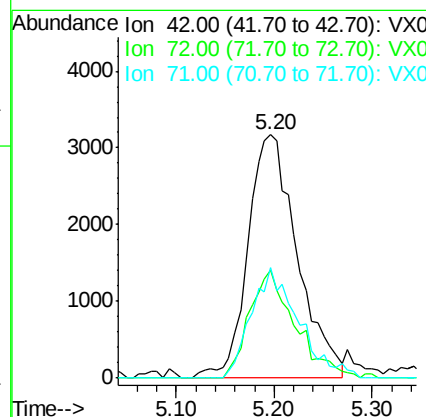
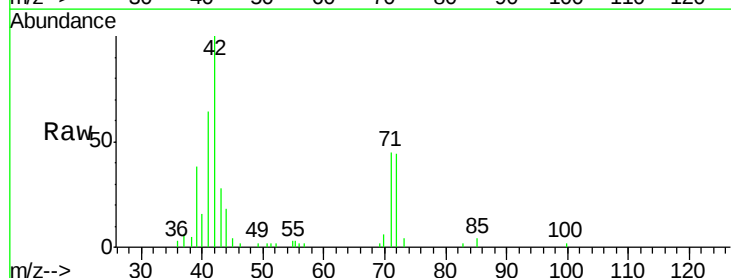
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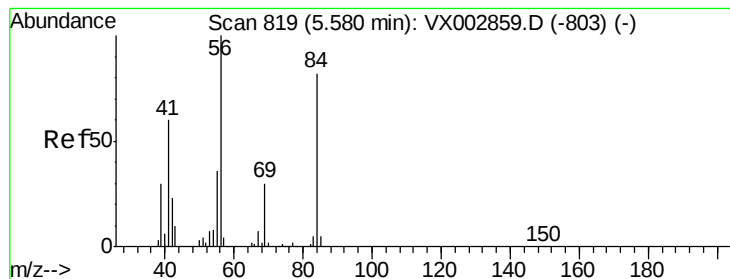


#29

Tetrahydrofuran
Concen: 8.38 ug/l
RT: 5.20 min Scan# 756
Delta R.T. 0.03 min
Lab File: VX002936.D
Acq: 27 Jun 2018 15:11

Tgt Ion	Ratio	Lower	Upper
42	100		
72	41.0	32.0	48.0
71	43.3	30.1	45.1





#31

Cyclohexane

Concen: 5.57 ug/l

RT: 5.56 min Scan# 815

Delta R.T. -0.02 min

Lab File: VX002936.D

Acq: 27 Jun 2018 15:11

Instrument :

MSVOA_X

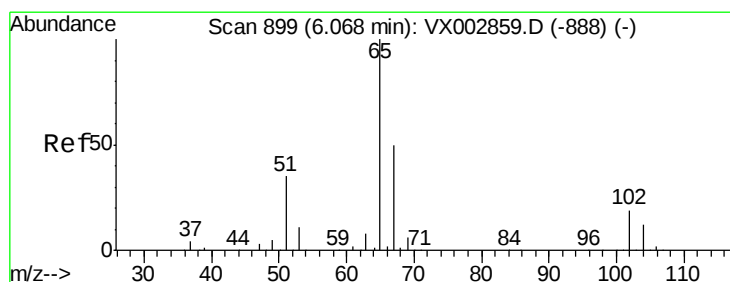
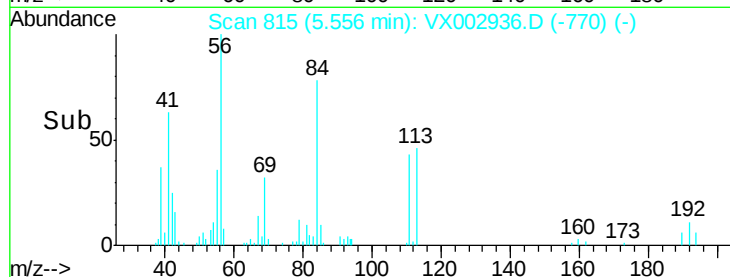
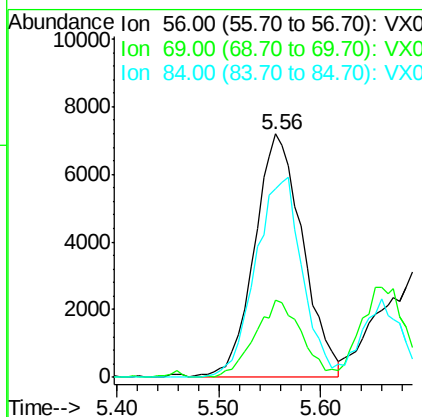
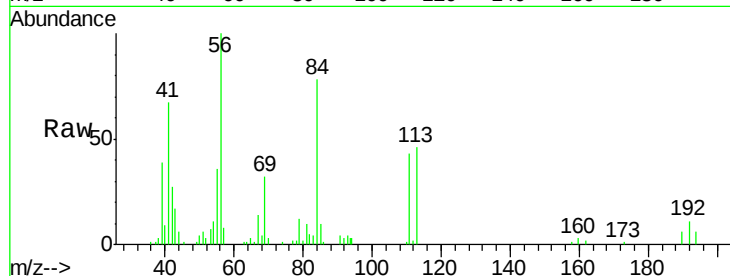
ClientSampleId :

WP021SB488-23-25-180622

Tot Ion:	56	Resp:	23567
Ion	Ratio	Lower	Upper
56	100		
69	31.9	23.7	35.5
84	77.5	64.1	96.1

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#33

1,2-Dichloroethane-d4

Concen: 49.10 ug/l

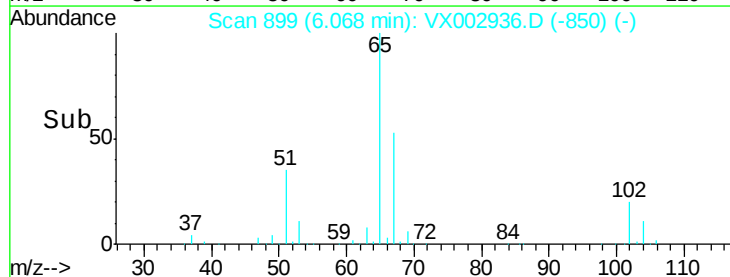
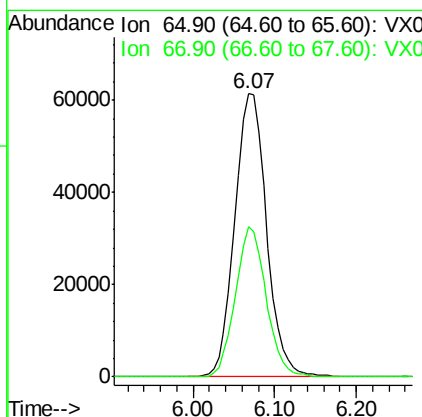
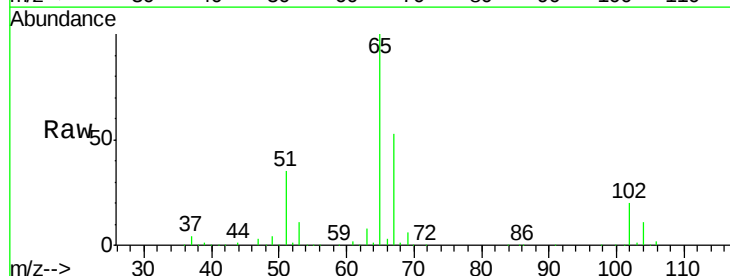
RT: 6.07 min Scan# 899

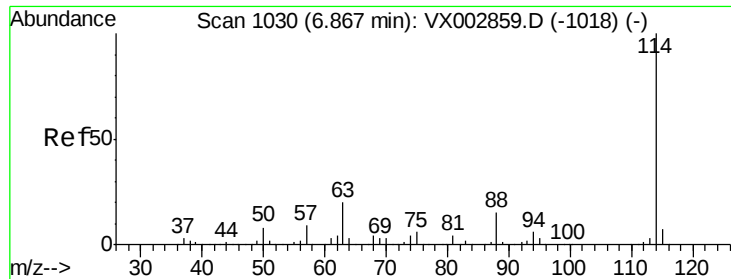
Delta R.T. 0.00 min

Lab File: VX002936.D

Acq: 27 Jun 2018 15:11

Tgt Ion:	65	Resp:	165700
Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	102.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VX002936.D

Acq: 27 Jun 2018 15:11

Instrument :

MSVOA_X

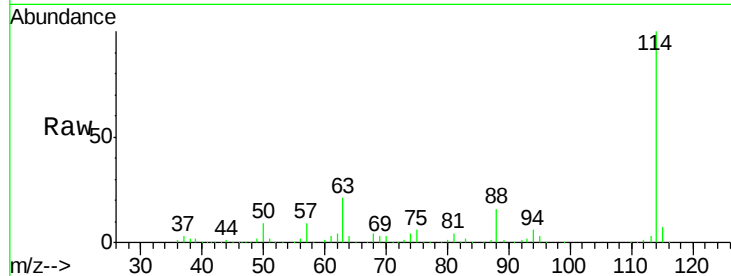
ClientSampleId :

WP021SB488-23-25-180622

Tot Ion:	114	Resp:	347055
Ion Ratio	Lower	Upper	
114	100		
63	20.6	0.0	41.4
88	15.8	0.0	30.0

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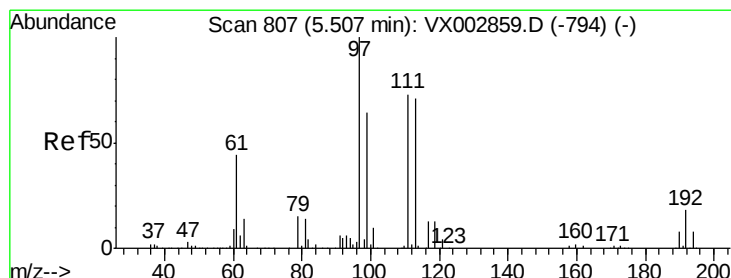
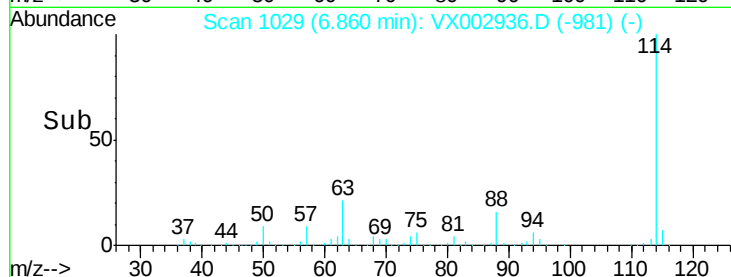
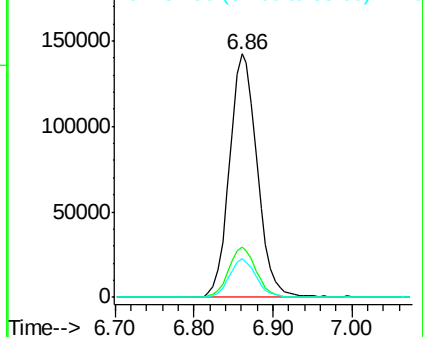
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Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 45.62 ug/l

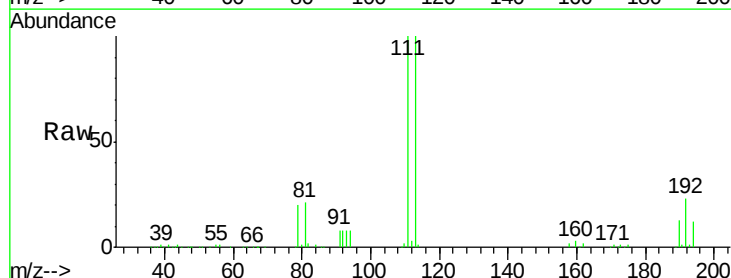
RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002936.D

Acq: 27 Jun 2018 15:11

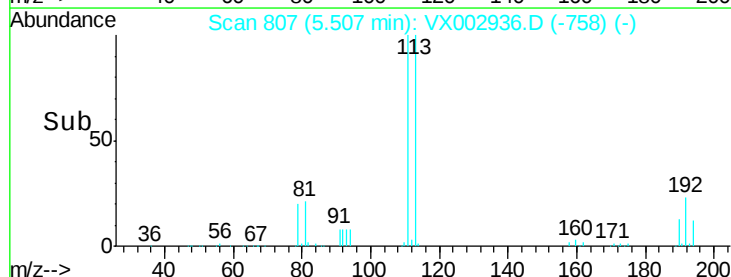
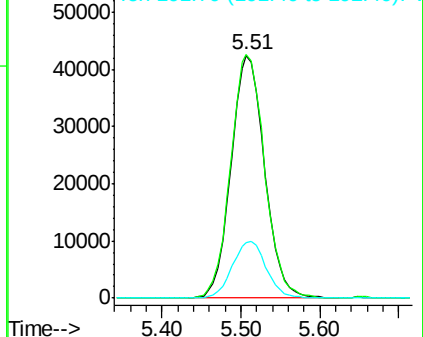
Tgt Ion:	113	Resp:	125376
Ion Ratio	Lower	Upper	
113	100		
111	101.6	81.4	122.0
192	23.7	19.1	28.7

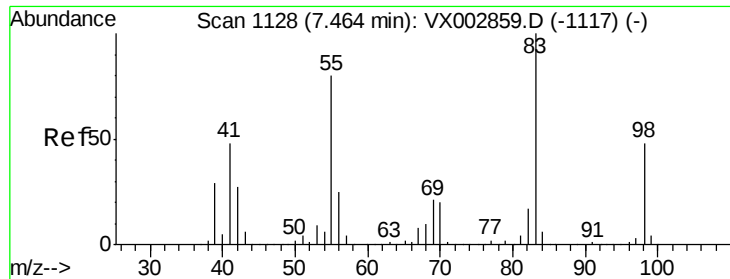


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





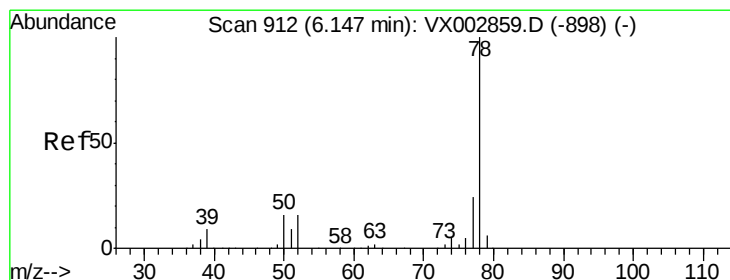
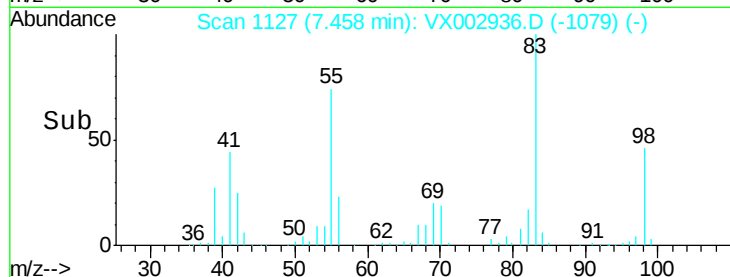
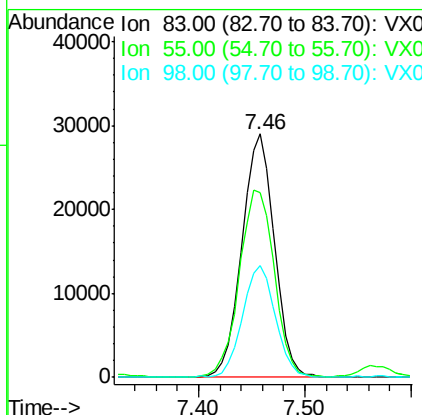
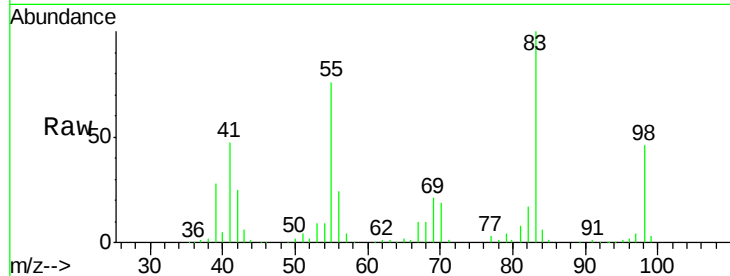
#39
Methvlcvclohexane
Concen: 14.09 ug/l
RT: 7.46 min Scan# 1127
Delta R.T. -0.01 min
Lab File: VX002936.D
Acq: 27 Jun 2018 15:11

Instrument :
MSVOA_X
ClientSampleId :
WP021SB488-23-25-180622

Tot Ion	Ratio	Lower	Upper
83	100		
55	75.5	65.4	98.0
98	46.2	37.4	56.0

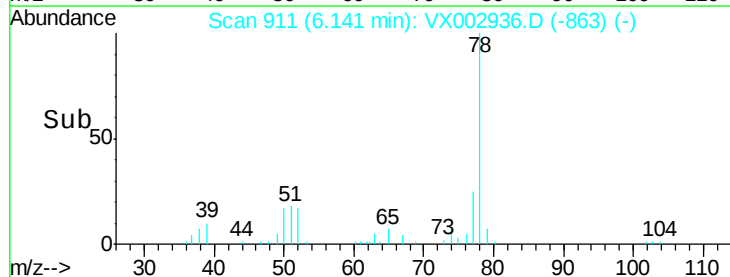
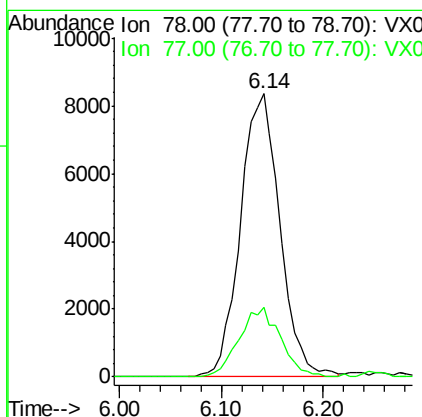
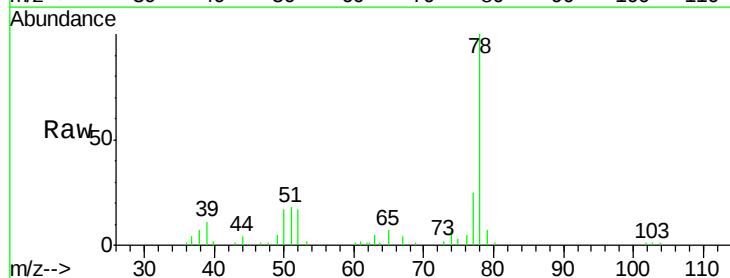
Manual Integrations
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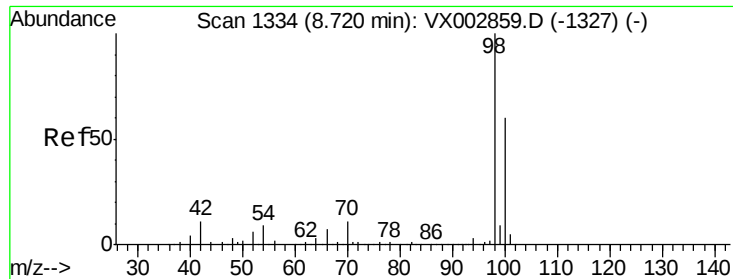
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#40
Benzene
Concen: 2.03 ug/l
RT: 6.14 min Scan# 911
Delta R.T. -0.01 min
Lab File: VX002936.D
Acq: 27 Jun 2018 15:11

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.8	19.1	28.7





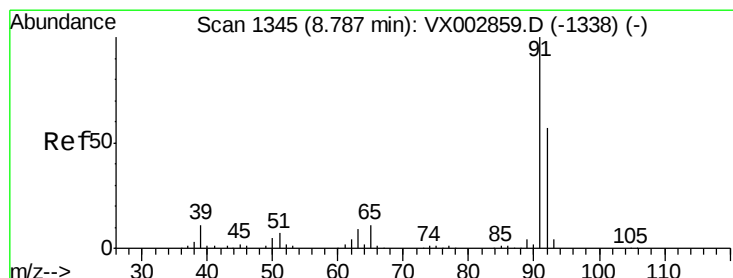
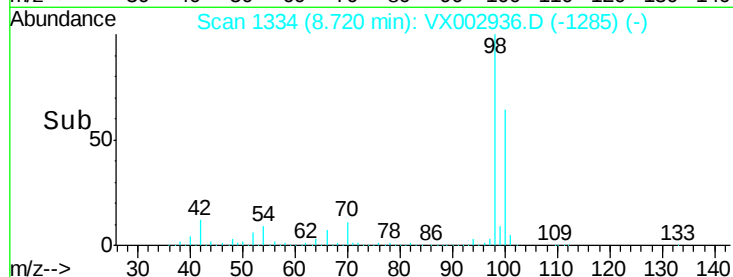
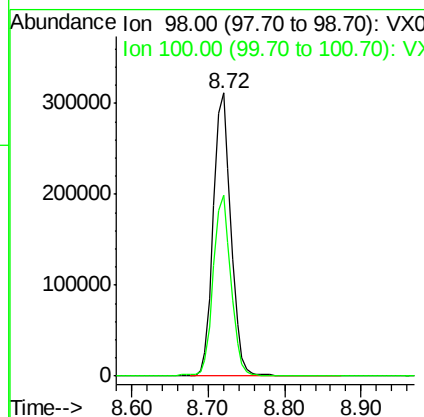
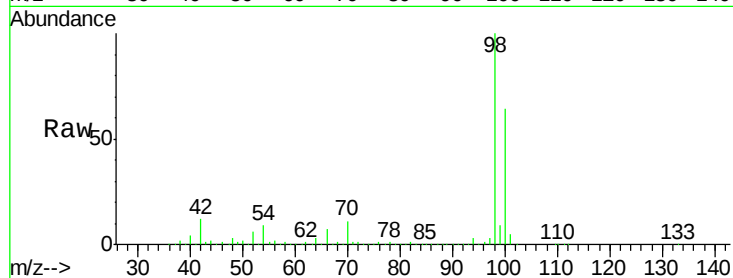
#50
Toluene-d8
Concen: 49.71 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002936.D
Acq: 27 Jun 2018 15:11

Instrument :
MSVOA_X
ClientSampleId :
WP021SB488-23-25-180622

Tot Ion: 98 Resp: 498875
Ion Ratio Lower Upper
98 100
100 64.6 50.9 76.3

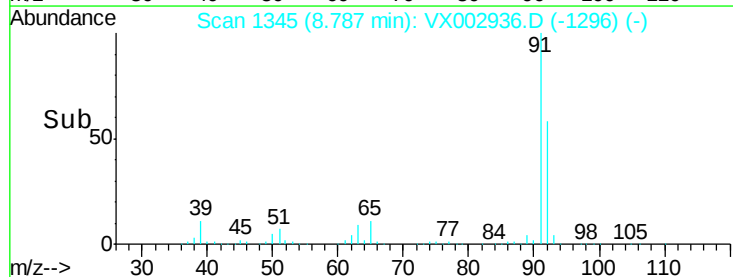
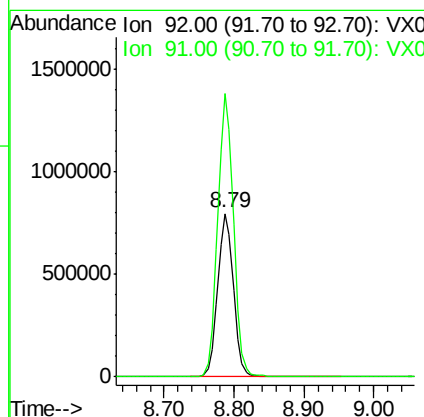
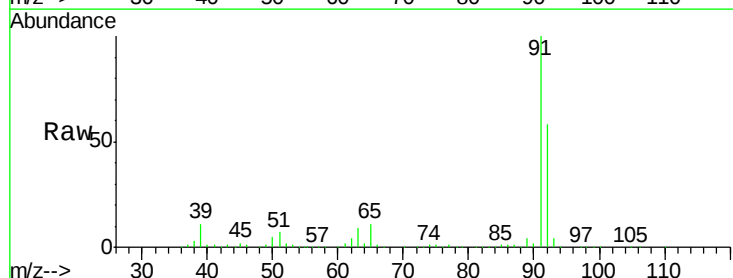
Manual Integrations
APPROVED

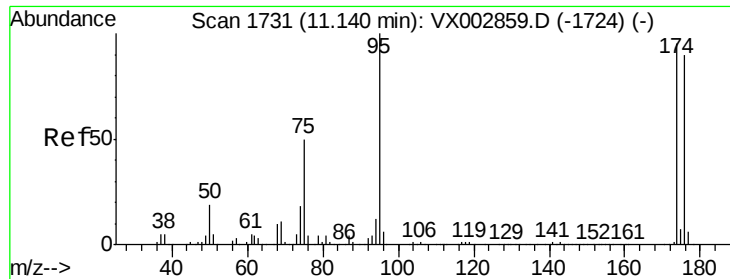
MMDadoda
6/28/2018 4:47:54 PM



#52
Toluene
Concen: 176.06 ug/l
RT: 8.79 min Scan# 1345
Delta R.T. -0.00 min
Lab File: VX002936.D
Acq: 27 Jun 2018 15:11

Tgt Ion: 92 Resp: 1247260
Ion Ratio Lower Upper
92 100
91 173.9 140.4 210.6





#62

4-Bromofluorobenzene

Concen: 55.91 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.01 min

Lab File: VX002936.D

Acq: 27 Jun 2018 15:11

Instrument :

MSVOA_X

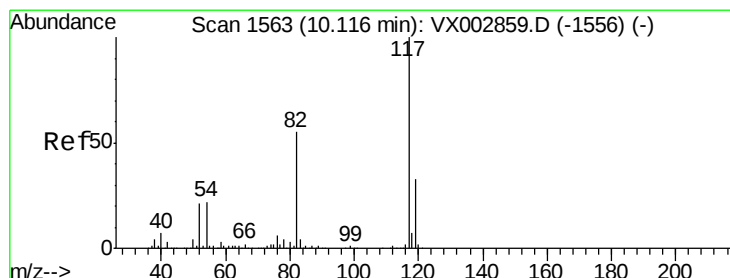
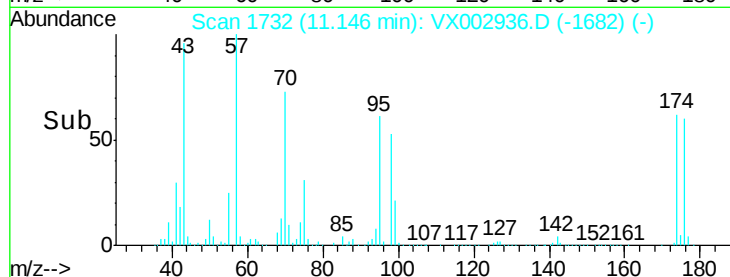
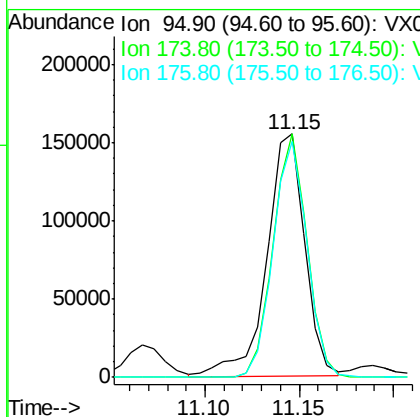
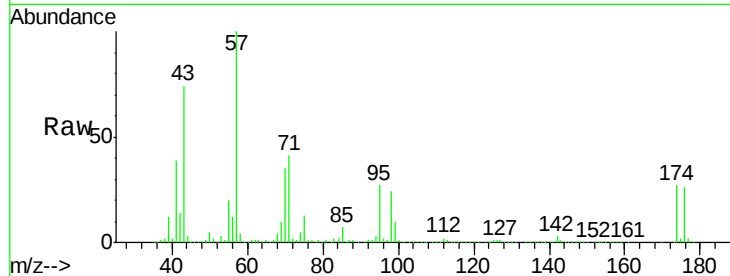
ClientSampleId :

WP021SB488-23-25-180622

Tot Ion:	95	Resp:	216401
Ion Ratio	Lower	Upper	
95	100		
174	89.5	0.0	187.4
176	87.2	0.0	181.0

Manual Integrations
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#63

Chlorobenzene-d5

Concen: 50.00 ug/l

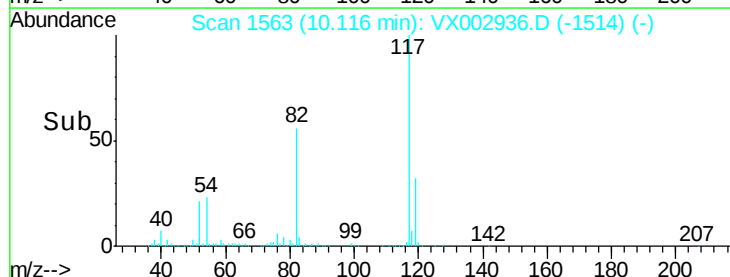
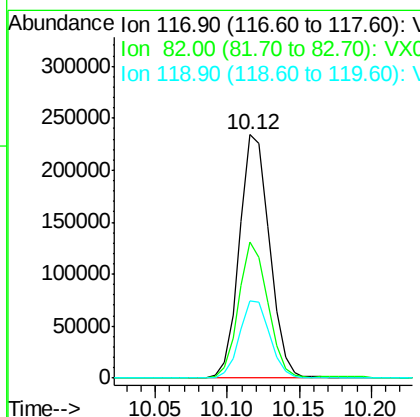
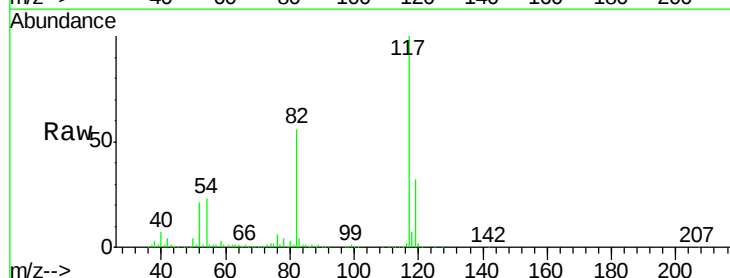
RT: 10.12 min Scan# 1563

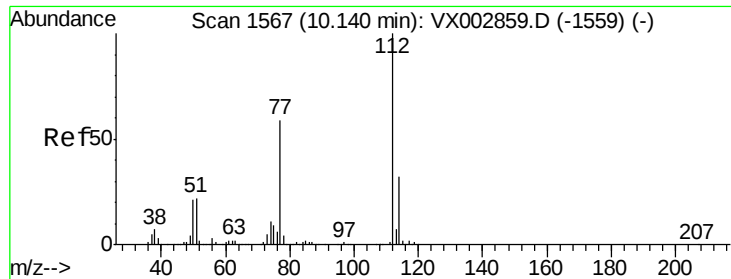
Delta R.T. -0.00 min

Lab File: VX002936.D

Acq: 27 Jun 2018 15:11

Tgt Ion:	117	Resp:	340335
Ion Ratio	Lower	Upper	
117	100		
82	55.5	45.0	67.4
119	31.7	25.8	38.6





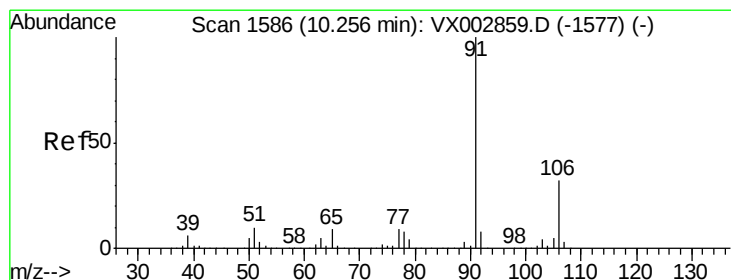
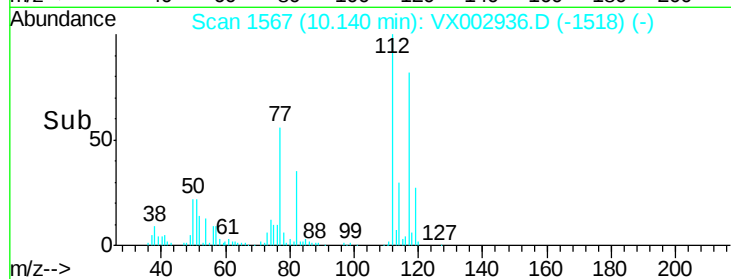
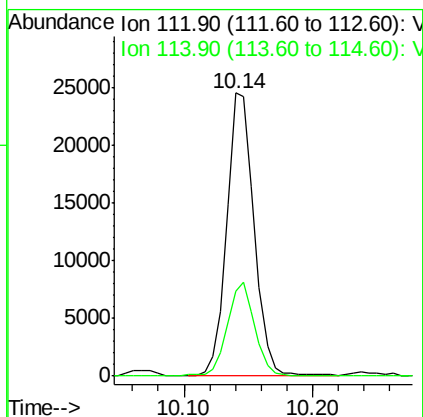
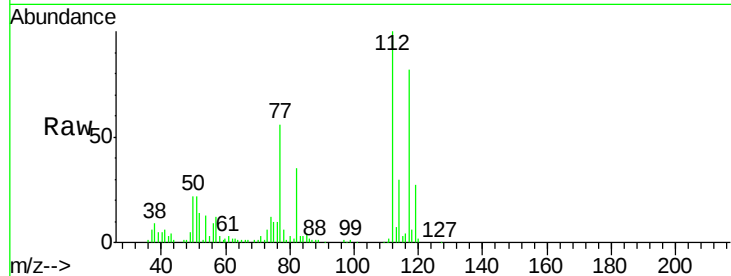
#65
Chlorobenzene
Concen: 4.25 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VX002936.D
Acq: 27 Jun 2018 15:11

Instrument :
MSVOA_X
ClientSampleId :
WP021SB488-23-25-180622

Tot Ion:112 Resp: 36740
Ion Ratio Lower Upper
112 100
114 30.2 25.3 37.9

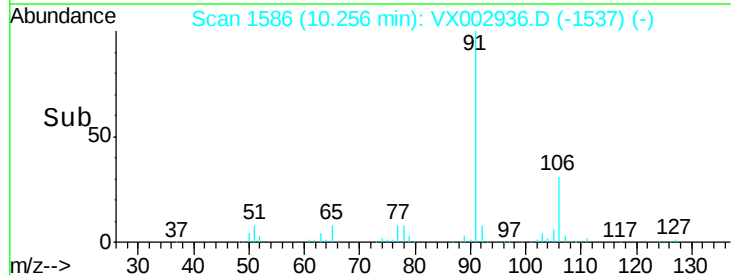
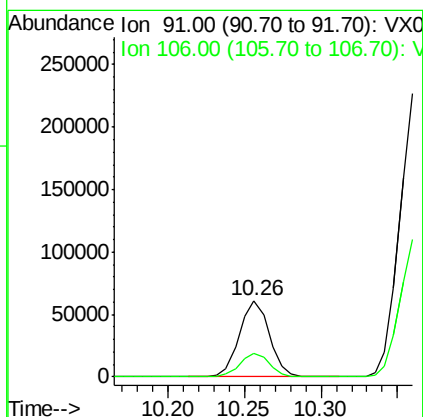
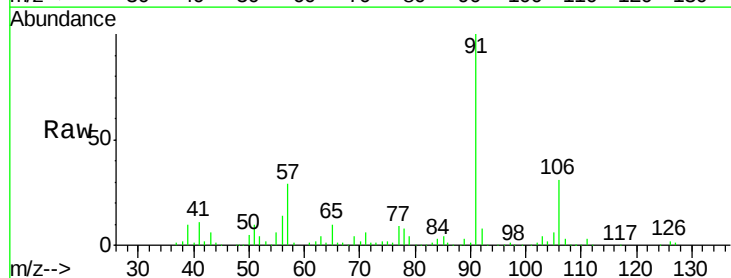
Manual Integrations
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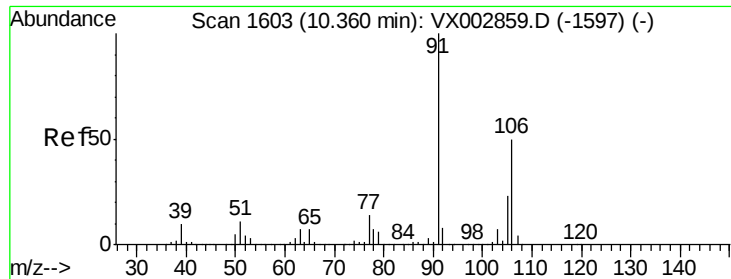
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#67
Ethyl Benzene
Concen: 5.86 ug/l
RT: 10.26 min Scan# 1586
Delta R.T. -0.00 min
Lab File: VX002936.D
Acq: 27 Jun 2018 15:11

Tgt Ion: 91 Resp: 83611
Ion Ratio Lower Upper
91 100
106 30.7 25.5 38.3





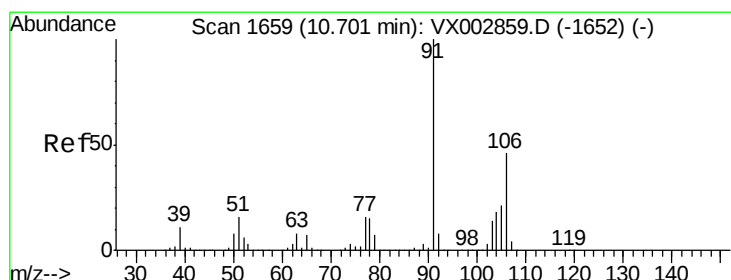
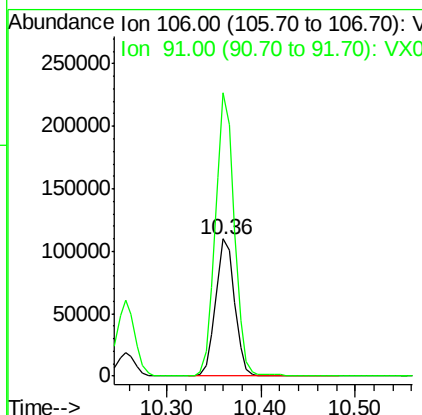
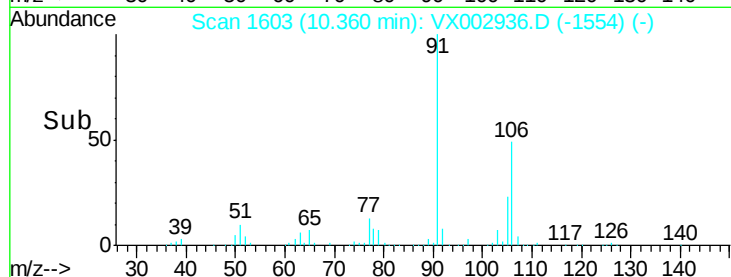
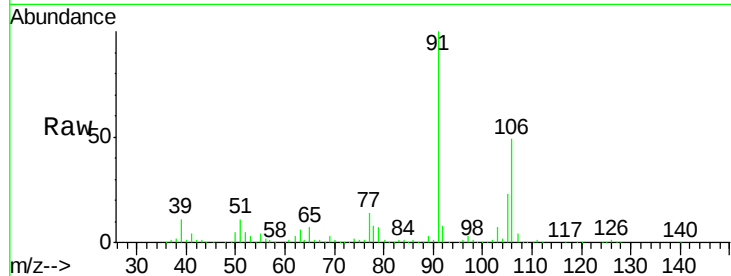
#68
m/p-Xylenes
Concen: 28.13 ug/l
RT: 10.36 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VX002936.D
Acq: 27 Jun 2018 15:11

Instrument :
MSVOA_X
ClientSampleId :
WP021SB488-23-25-180622

Tot Ion:106 Resp: 154813
Ion Ratio Lower Upper
106 100
91 204.1 163.4 245.2

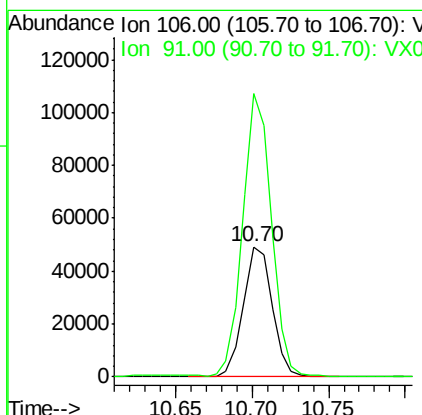
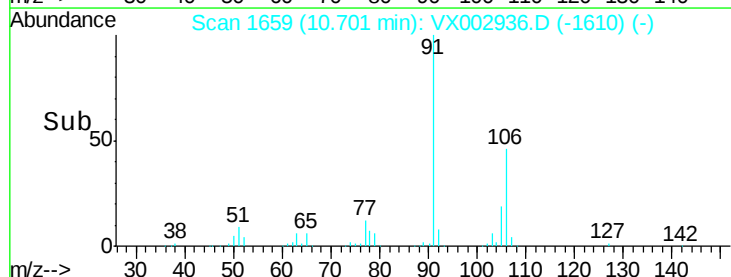
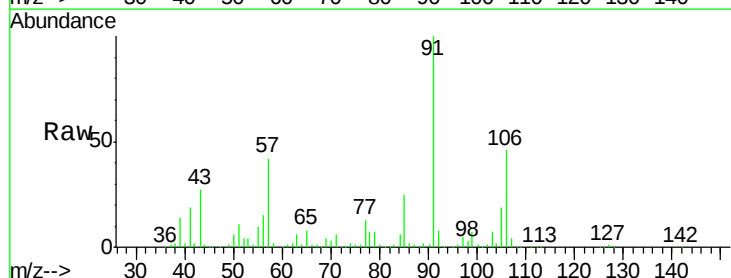
Manual Integrations
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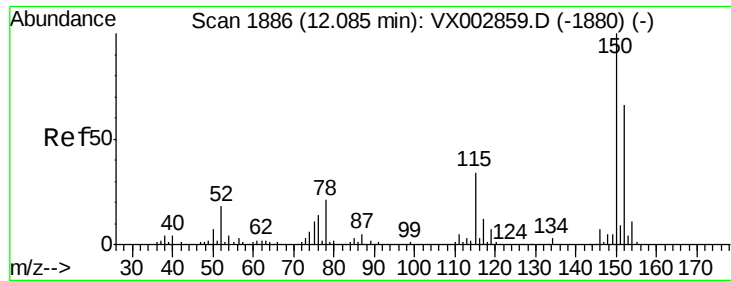
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#69
o-Xylene
Concen: 12.12 ug/l
RT: 10.70 min Scan# 1659
Delta R.T. -0.00 min
Lab File: VX002936.D
Acq: 27 Jun 2018 15:11

Tgt Ion:106 Resp: 64957
Ion Ratio Lower Upper
106 100
91 212.8 108.2 324.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002936.D

Acq: 27 Jun 2018 15:11

Instrument :

MSVOA_X

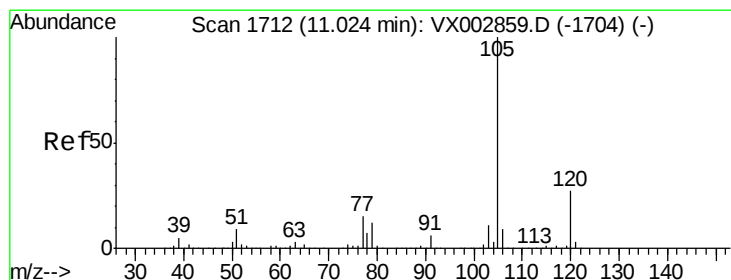
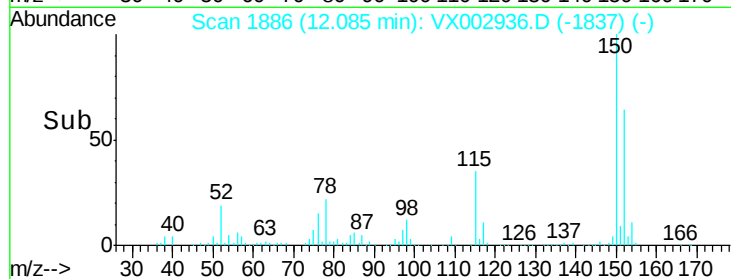
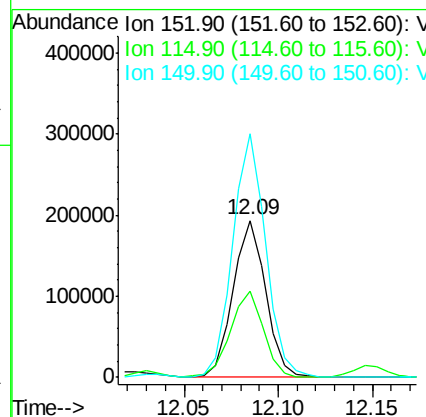
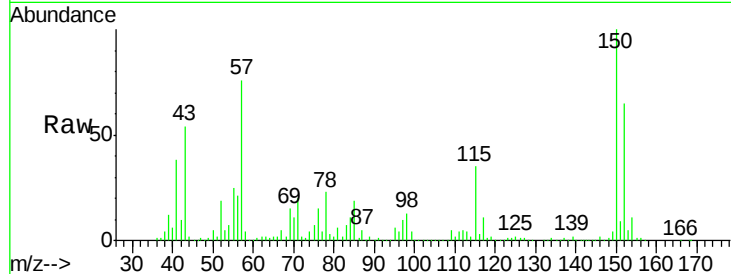
ClientSampleId :

WP021SB488-23-25-180622

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.5	40.1	120.2
150	157.0	0.0	347.2

Manual Integrations
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#73

Isopropylbenzene

Concen: 2.93 ug/l

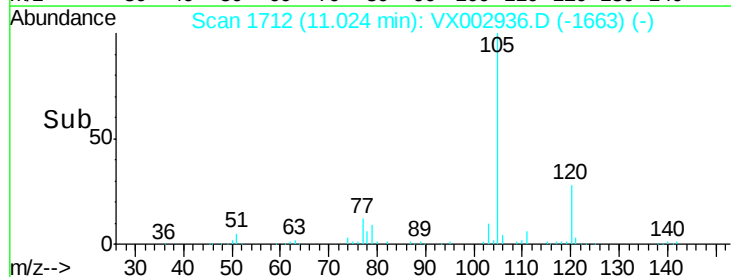
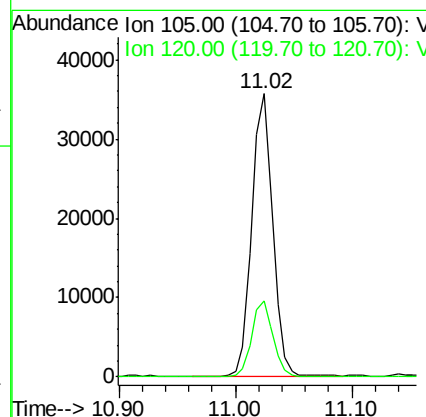
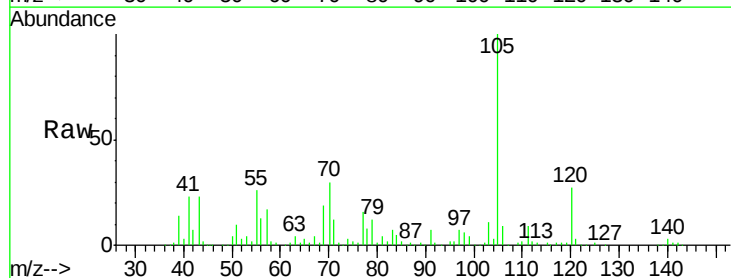
RT: 11.02 min Scan# 1712

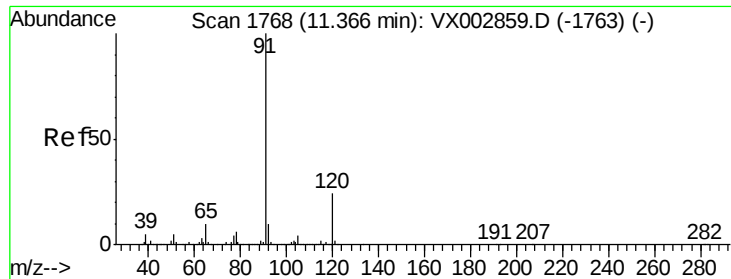
Delta R.T. -0.00 min

Lab File: VX002936.D

Acq: 27 Jun 2018 15:11

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.0	13.5	40.4





#78

n-propylbenzene

Concen: 5.61 ug/l

RT: 11.37 min Scan# 1768

Delta R.T. -0.00 min

Lab File: VX002936.D

Acq: 27 Jun 2018 15:11

Instrument :

MSVOA_X

ClientSampleId :

WP021SB488-23-25-180622

Tot Ion: 91 Resp: 99379

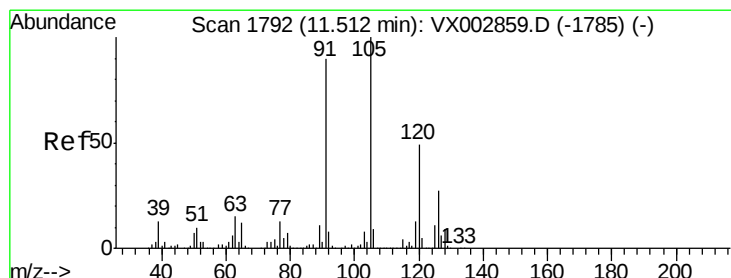
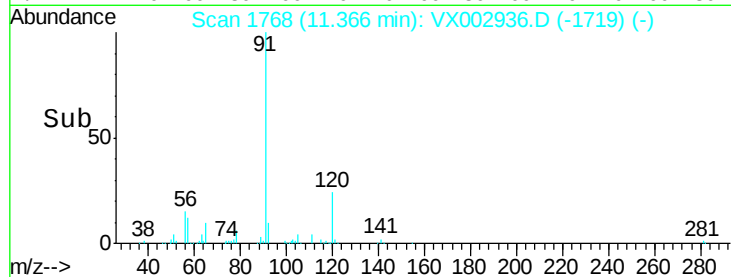
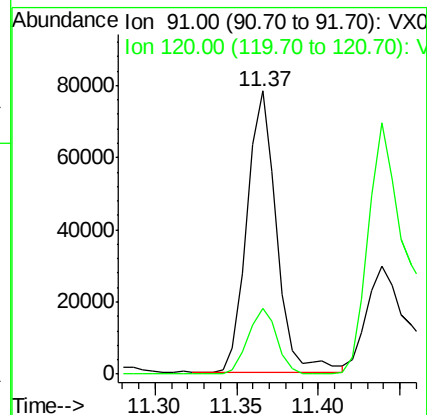
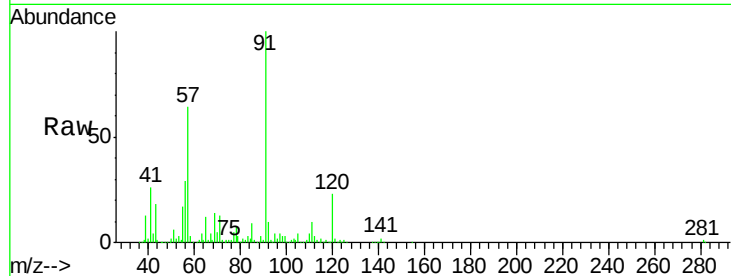
Ion Ratio Lower Upper

91 100

120 22.8 11.8 35.4

Manual Integrations
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#80

1,3,5-Trimethylbenzene

Concen: 20.31 ug/l

RT: 11.51 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX002936.D

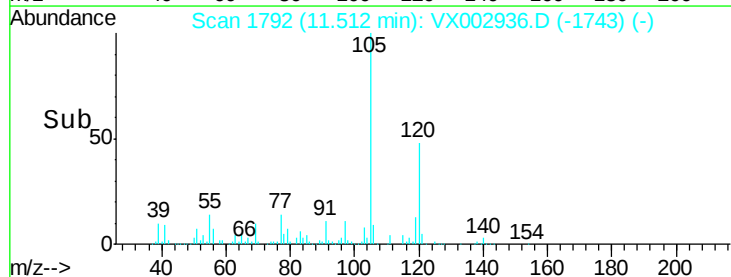
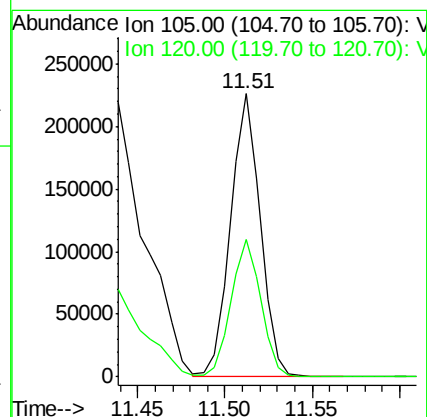
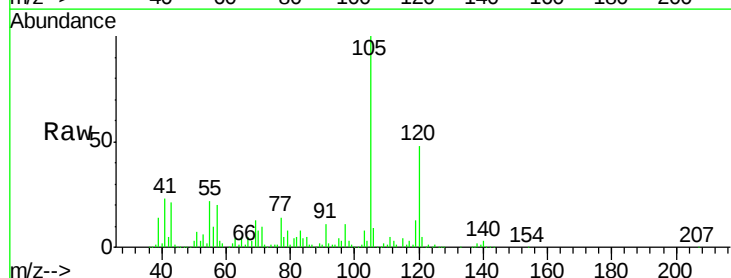
Acq: 27 Jun 2018 15:11

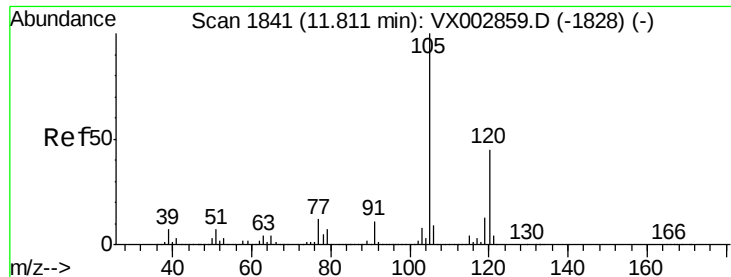
Tgt Ion: 105 Resp: 266015

Ion Ratio Lower Upper

105 100

120 48.7 24.4 73.4





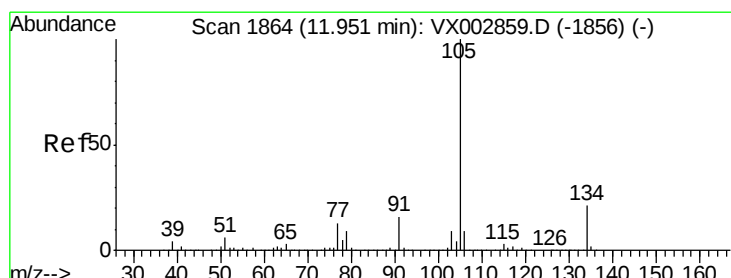
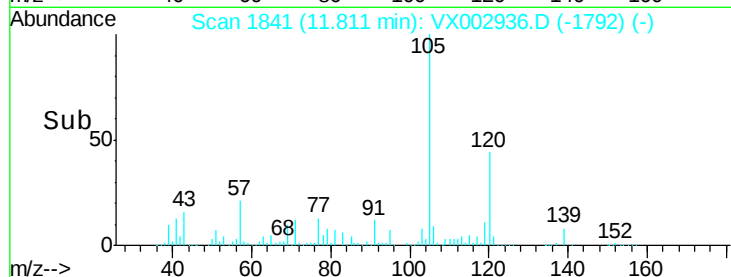
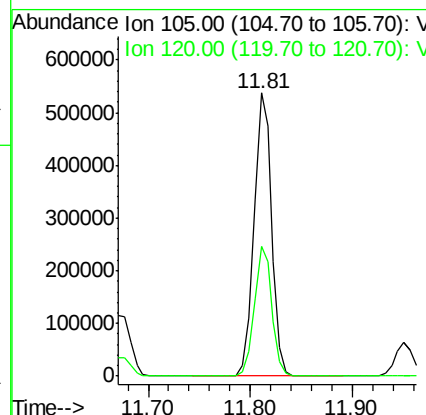
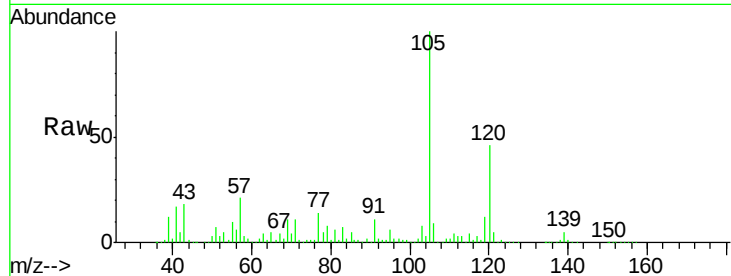
#84
 1,2,4-Trimethylbenzene
 Concen: 47.58 ug/l
 RT: 11.81 min Scan# 1841
 Delta R.T. -0.00 min
 Lab File: VX002936.D
 Acq: 27 Jun 2018 15:11

Instrument :
 MSVOA_X
 ClientSampleId :
 WP021SB488-23-25-180622

Tot Ion:105 Resp: 645640
 Ion Ratio Lower Upper
 105 100
 120 46.0 22.3 66.8

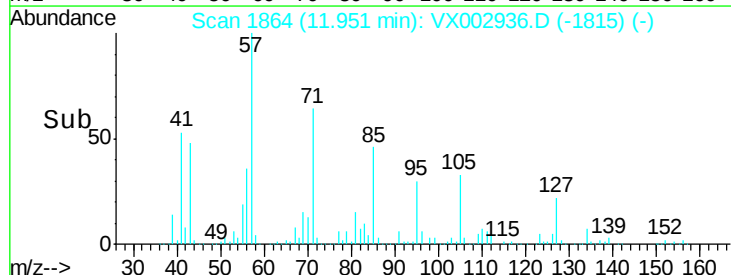
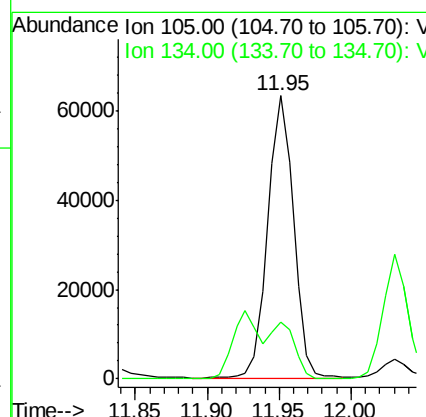
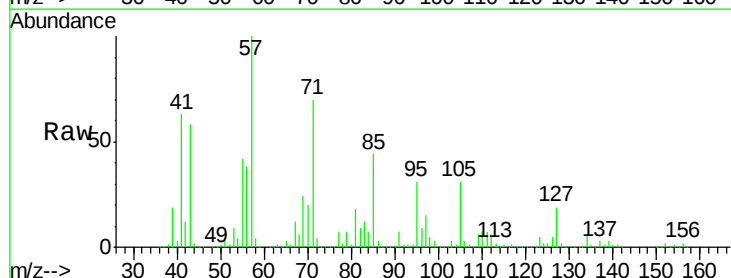
Manual Integrations
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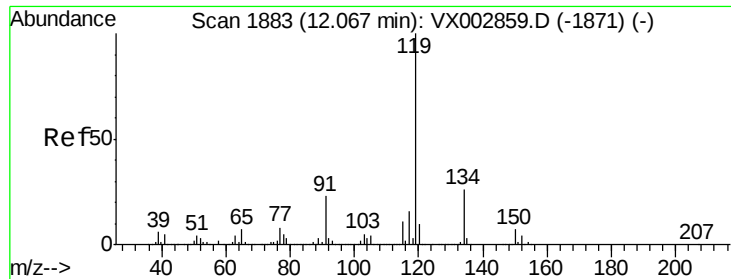
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#85
 sec-Butylbenzene
 Concen: 4.97 ug/l
 RT: 11.95 min Scan# 1864
 Delta R.T. -0.00 min
 Lab File: VX002936.D
 Acq: 27 Jun 2018 15:11

Tgt Ion:105 Resp: 77825
 Ion Ratio Lower Upper
 105 100
 134 19.1 10.4 31.1





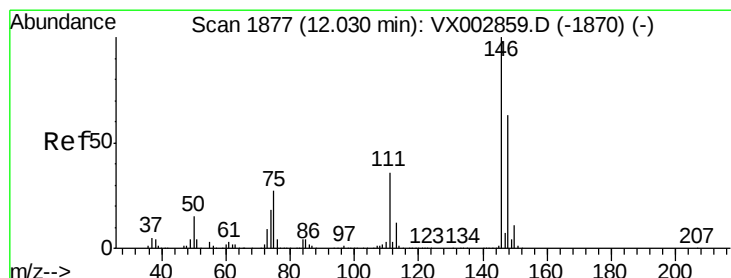
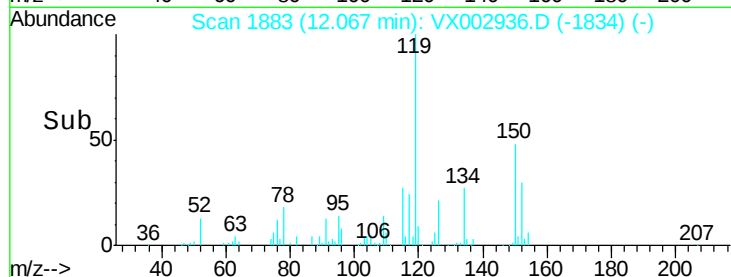
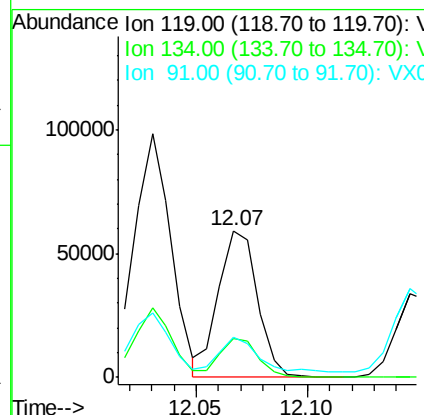
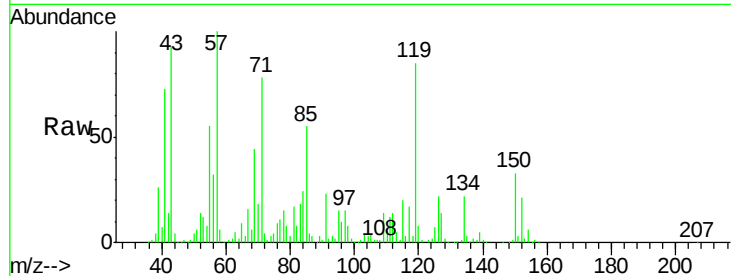
#86
p-Isopropyltoluene
Concen: 5.11 ug/l
RT: 12.07 min Scan# 1883
Delta R.T. -0.00 min
Lab File: VX002936.D
Acq: 27 Jun 2018 15:11

Instrument :
MSVOA_X
ClientSampleId :
WP021SB488-23-25-180622

Tot Ion	Ratio	Resp	Lower	Upper
119	100	71893		
134	26.7	13.4	40.1	
91	23.7	11.9	35.7	

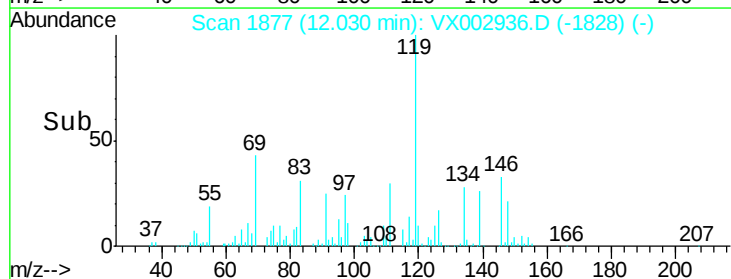
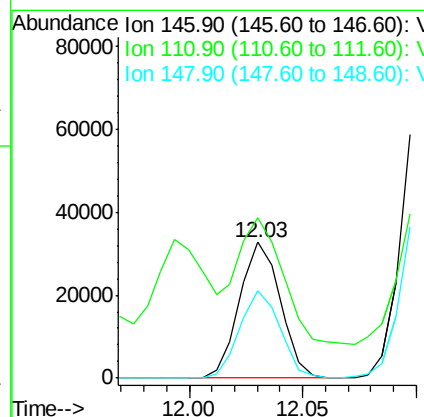
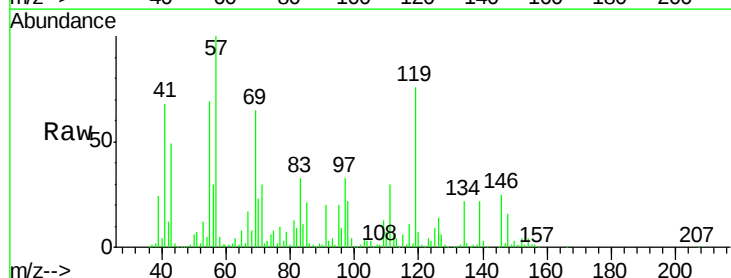
Manual Integrations
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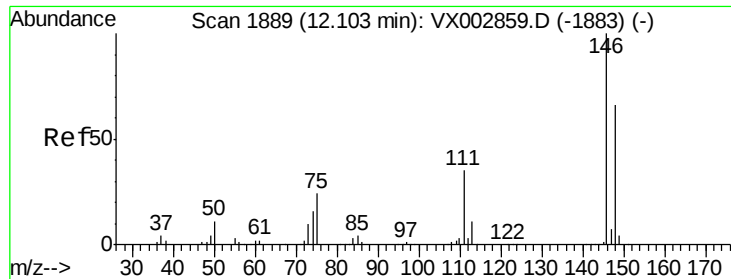
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#87
1,3-Dichlorobenzene
Concen: 5.08 ug/l m
RT: 12.03 min Scan# 1877
Delta R.T. -0.00 min
Lab File: VX002936.D
Acq: 27 Jun 2018 15:11

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	41123		
111	118.1	18.9	56.7#	
148	140.8	32.1	96.3#	





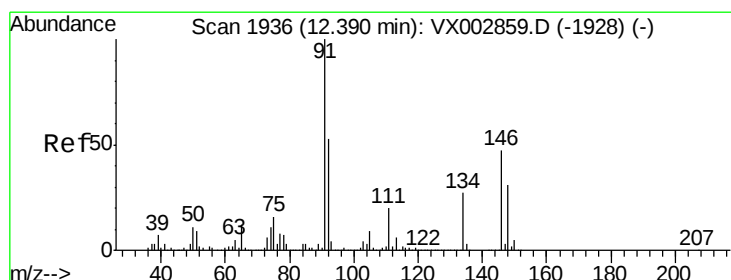
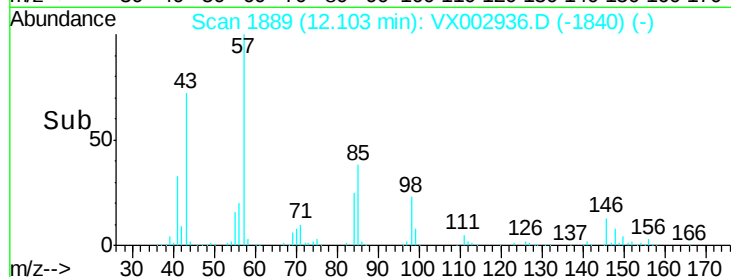
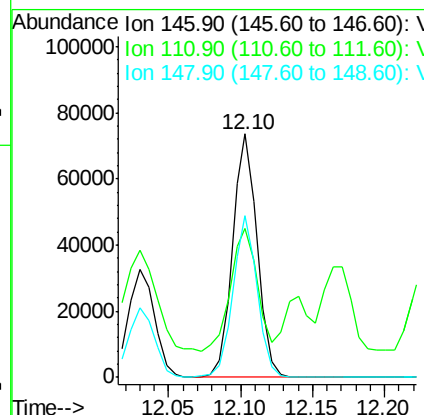
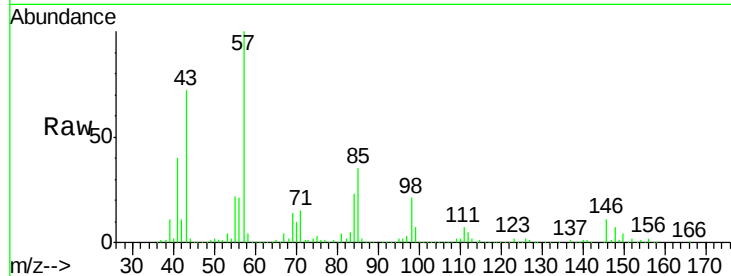
#88
 1,4-Dichlorobenzene
 Concen: 10.61 ug/l
 RT: 12.10 min Scan# 1889
 Delta R.T. -0.00 min
 Lab File: VX002936.D
 Acq: 27 Jun 2018 15:11

Instrument :
 MSVOA_X
 ClientSampleId :
 WP021SB488-23-25-180622

Tot Ion	Ratio	Lower	Upper
146	100		
111	64.5	18.7	56.1#
148	65.6	32.4	97.0

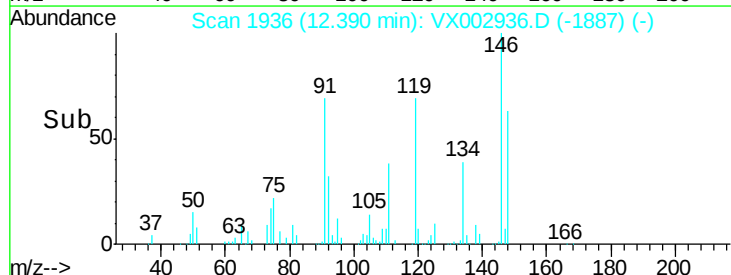
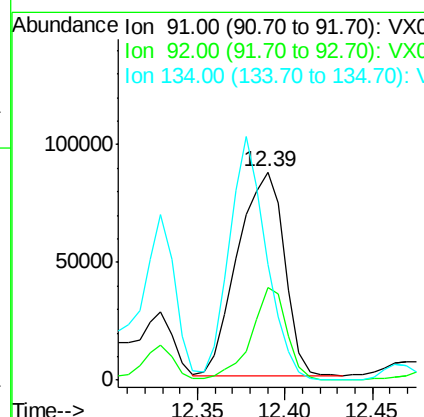
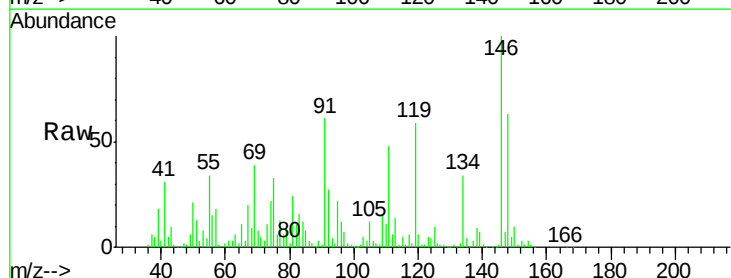
Manual Integrations
 APPROVED

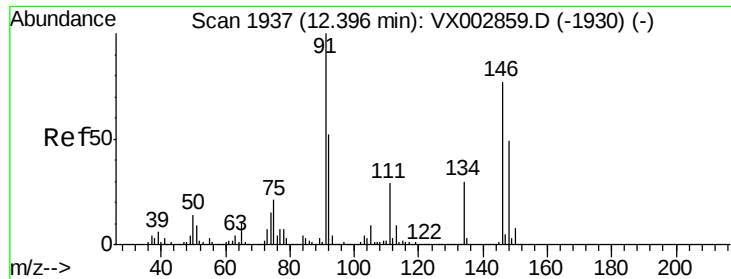
MMDadoda
 6/28/2018 4:47:54 PM



#89
 n-Butylbenzene
 Concen: 13.18 ug/l
 RT: 12.39 min Scan# 1936
 Delta R.T. -0.00 min
 Lab File: VX002936.D
 Acq: 27 Jun 2018 15:11

Tgt Ion	Ratio	Lower	Upper
91	100		
92	33.9	26.0	78.0
134	94.0	13.5	40.5#





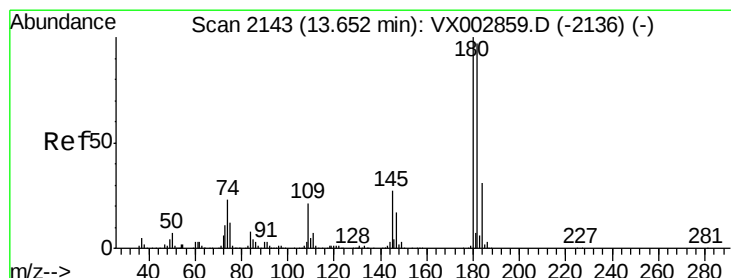
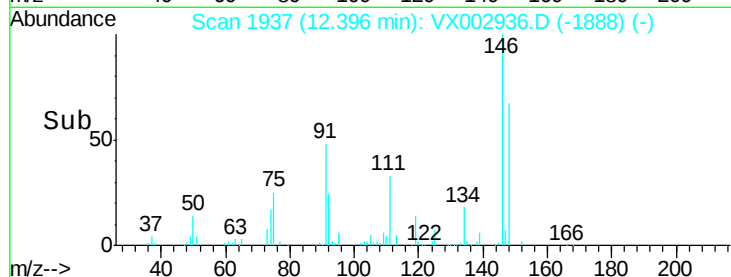
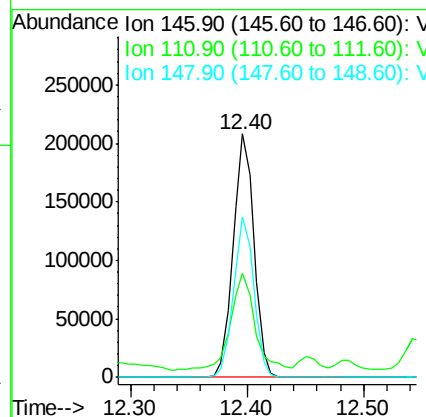
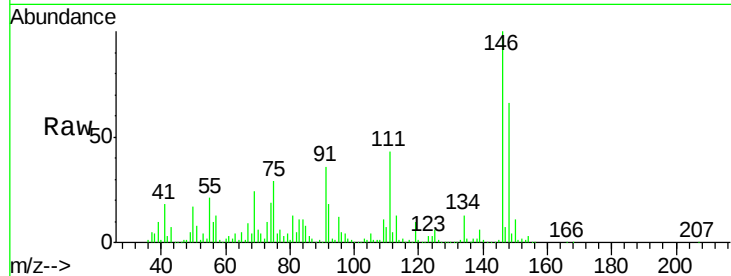
#91
 1,2-Dichlorobenzene
 Concen: 31.68 ug/l
 RT: 12.40 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VX002936.D
 Acq: 27 Jun 2018 15:11

Instrument :
 MSVOA_X
 ClientSampleId :
 WP021SB488-23-25-180622

Tot Ion	Ratio	Resp	Lower	Upper
146	100	258629		
111	45.1	19.4	58.1	
148	64.5	31.7	95.1	

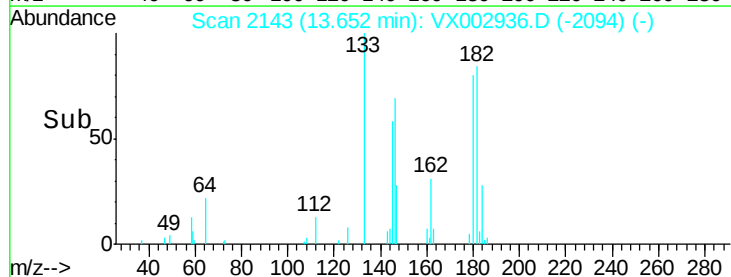
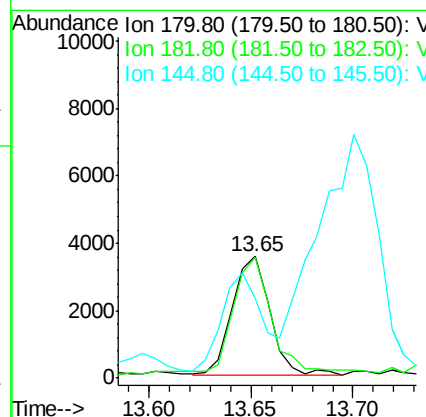
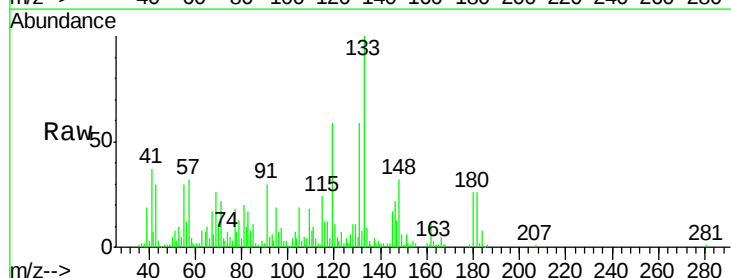
Manual Integrations
 APPROVED

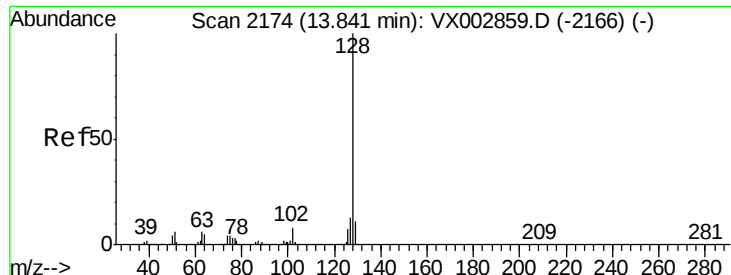
MMDadoda
 6/28/2018 4:47:54 PM



#93
 1,2,4-Trichlorobenzene
 Concen: 0.75 ug/l
 RT: 13.65 min Scan# 2143
 Delta R.T. -0.00 min
 Lab File: VX002936.D
 Acq: 27 Jun 2018 15:11

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	4481		
182	99.0	47.7	143.1	
145	99.5	14.1	42.4#	





#95
Naphthalene
Concen: 22.71 ug/l
RT: 13.84 min Scan# 2174
Delta R.T. -0.00 min
Lab File: VX002936.D
Acq: 27 Jun 2018 15:11

Instrument :
MSVOA_X
ClientSampleId :
WP021SB488-23-25-180622

Tot Ion	Ratio	Resp	Lower	Upper
128	100	359293		
127	13.7		10.4	15.6
129	11.3		8.6	13.0

Manual Integrations
APPROVED

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6/28/2018 4:47:54 PM

