

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU110918\
 Data File : VU028043.D
 Acq On : 09 Nov 2018 14:37
 Operator : MD/SY
 Sample : J5885-02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-1

Manual Integrations
 APPROVED

MMDadoda
 11/12/2018 12:02:00 PM

Quant Time: Nov 12 07:00:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 02 02:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	189525	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	374578	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.10	117	394426	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	195193	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	161081	57.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.34%	
35) Dibromofluoromethane	4.88	113	118973	50.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.74%	
50) Toluene-d8	7.58	98	508339	55.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.44%	
62) 4-Bromofluorobenzene	10.31	95	202326	60.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	120.26%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.40	62	323781	112.006	ug/l	100
12) 1,1-Dichloroethene	2.29	96	7455	3.753	ug/l	87
16) Acetone	2.32	43	12290	7.030	ug/l	94
19) Methyl tert-butyl Ether	3.00	73	5889	0.735	ug/l	96
21) trans-1,2-Dichloroethene	2.99	96	16336	7.126	ug/l	99
27) cis-1,2-Dichloroethene	4.23	96	4490862	1747.036	ug/l	90
30) Chloroform	4.68	83	4495	0.982	ug/l	97
44) Trichloroethene	6.19	130	2017258	782.419	ug/l	99
52) Toluene	7.65	92	46722	6.626	ug/l	100
64) Tetrachloroethene	8.24	164	87616416m	34257.750	ug/l	
65) Chlorobenzene	9.13	112	21691	2.603	ug/l	89
66) 1,1,1,2-Tetrachloroethane	9.22	131	55185	19.388	ug/l	98
67) Ethyl Benzene	9.26	91	39416	2.570	ug/l	100
68) m/p-Xylenes	9.38	106	33084	5.944	ug/l	95
69) o-Xylene	9.78	106	41649	7.411	ug/l	98
73) Isopropylbenzene	10.17	105	61042	4.037	ug/l	100
78) n-propylbenzene	10.59	91	130126	7.189	ug/l	99
80) 1,3,5-Trimethylbenzene	10.77	105	107608	8.590	ug/l	98
84) 1,2,4-Trimethylbenzene	11.15	105	280230	22.216	ug/l	100
85) sec-Butylbenzene	11.33	105	5065m	0.333	ug/l	
86) p-Isopropyltoluene	11.48	119	3827m	0.301	ug/l	
87) 1,3-Dichlorobenzene	11.42	146	2342	0.366	ug/l	93
88) 1,4-Dichlorobenzene	11.51	146	8326	1.268	ug/l	91
89) n-Butylbenzene	11.89	91	9226	0.762	ug/l #	65
91) 1,2-Dichlorobenzene	11.88	146	25869	4.016	ug/l	96
93) 1,2,4-Trichlorobenzene	13.50	180	8910	2.630	ug/l	96

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

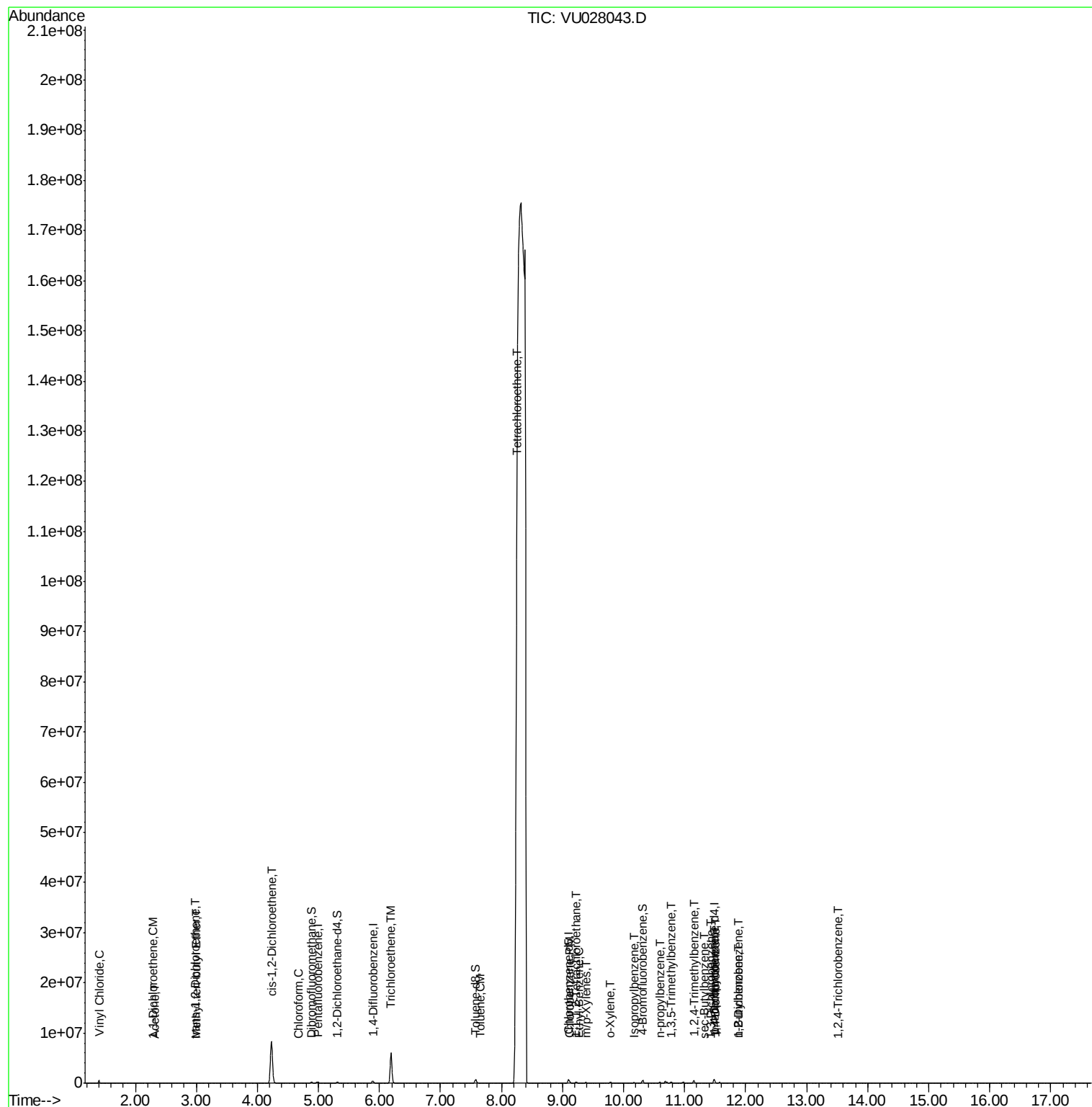
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU110918\
Data File : VU028043.D
Acq On : 09 Nov 2018 14:37
Operator : MD/SY
Sample : J5885-02
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

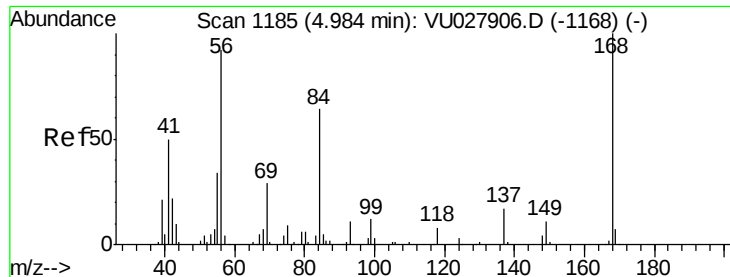
Instrument :
MSVOA_U
ClientSampleId :
MW-1

Manual Integrations
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11/12/2018 12:02:00 PM

Quant Time: Nov 12 07:00:58 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 02 02:28:20 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1187

Delta R.T. 0.01 min

Lab File: VU028043.D

Acq: 09 Nov 2018 14:37

Instrument :

MSVOA_U

ClientSampled :

MW-1

Tot Ion:168 Resp: 189525

Ion Ratio Lower Upper

168 100

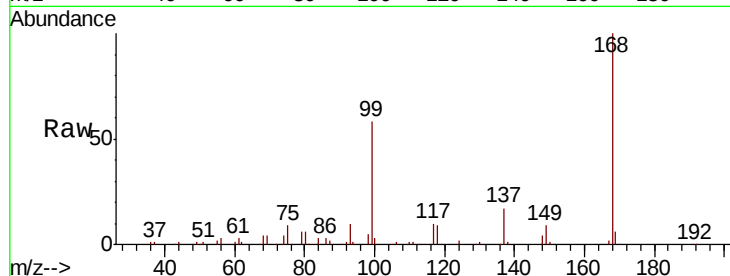
99 57.1 47.9 71.9

Manual Integrations

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11/12/2018 12:02:00 PM



Abundance Ion 167.90 (167.60 to 168.60): VU027906.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU027906.D (-1168) (-)

4.99

80000

60000

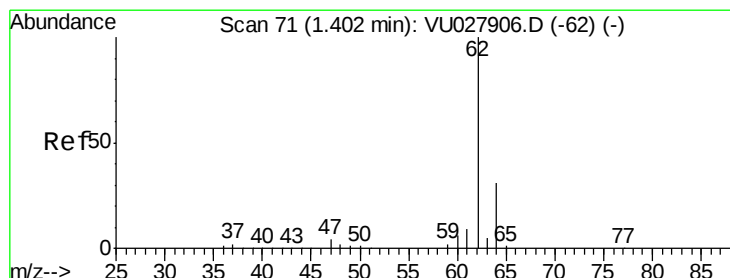
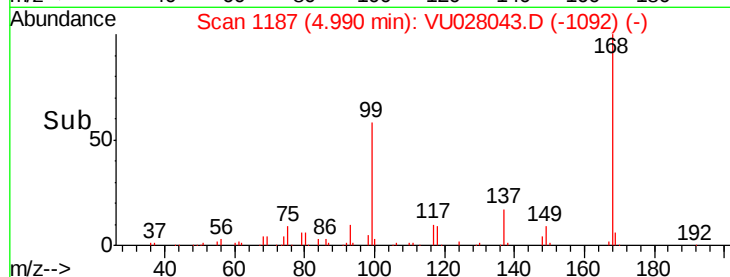
40000

20000

0

4.90 4.95 5.00 5.05

Time-->



#4

Vinyl Chloride

Concen: 112.006 ug/l

RT: 1.40 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU028043.D

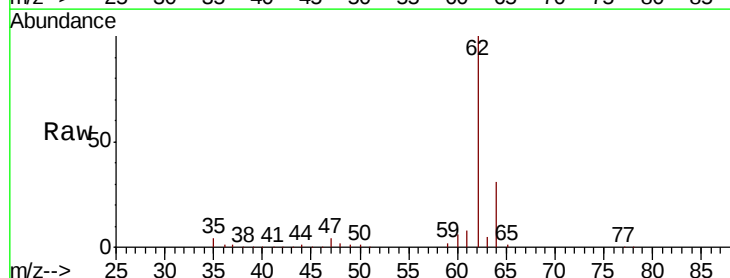
Acq: 09 Nov 2018 14:37

Tgt Ion: 62 Resp: 323781

Ion Ratio Lower Upper

62 100

64 31.5 25.2 37.8



Abundance Ion 61.90 (61.60 to 62.60): VU027906.D (-62) (-)

Ion 63.90 (63.60 to 64.60): VU027906.D (-62) (-)

1.40

300000

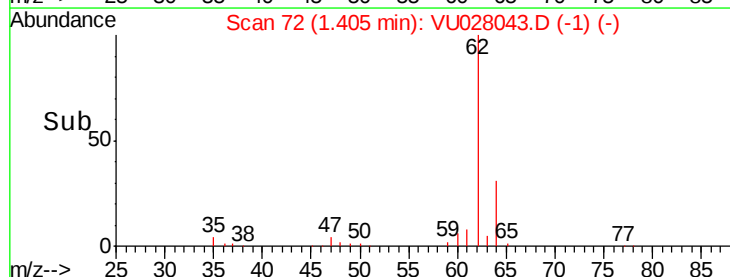
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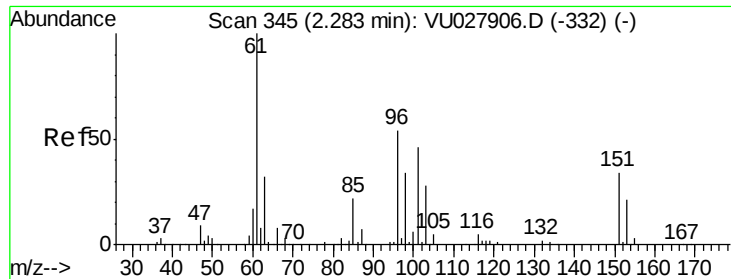
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0

1.35 1.40 1.45 1.50

Time-->





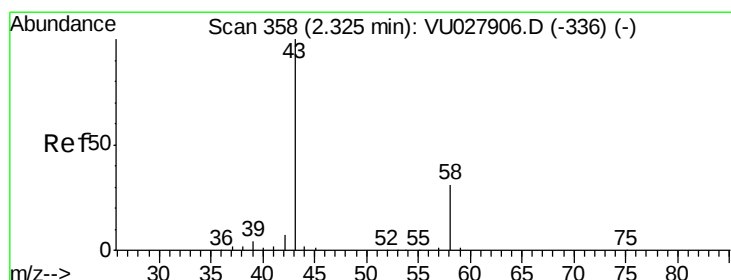
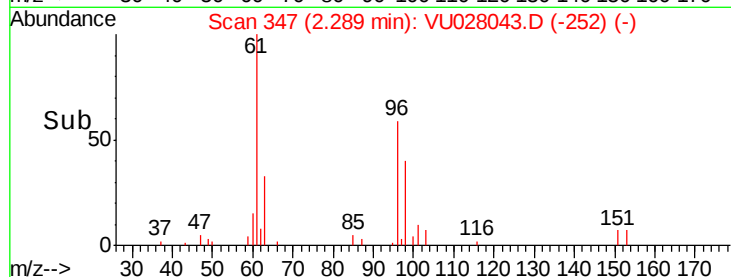
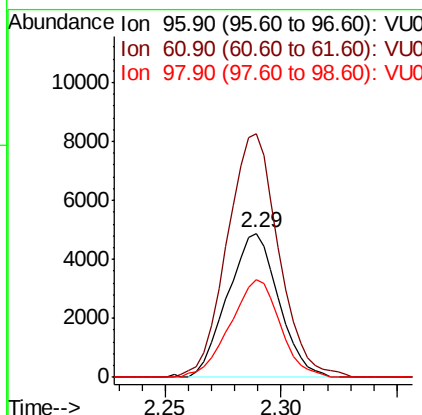
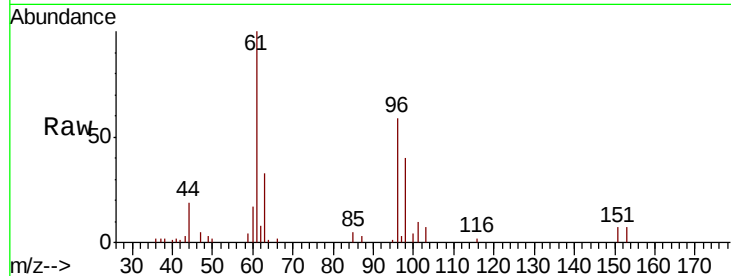
#12
 1,1-Dichloroethene
 Concen: 3.753 ug/l
 RT: 2.29 min Scan# 347
 Delta R.T. 0.01 min
 Lab File: VU028043.D
 Acq: 09 Nov 2018 14:37

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-1

Tot Ion	Ratio	Lower	Upper
96	100		
61	164.4	149.3	223.9
98	68.0	50.6	75.8

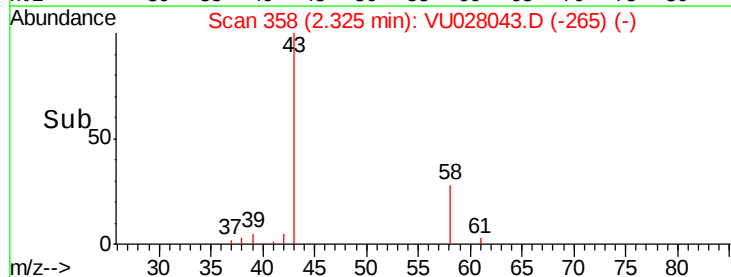
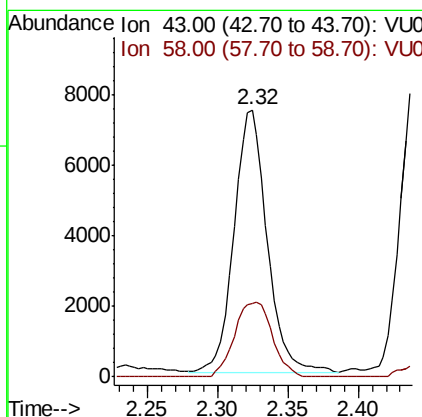
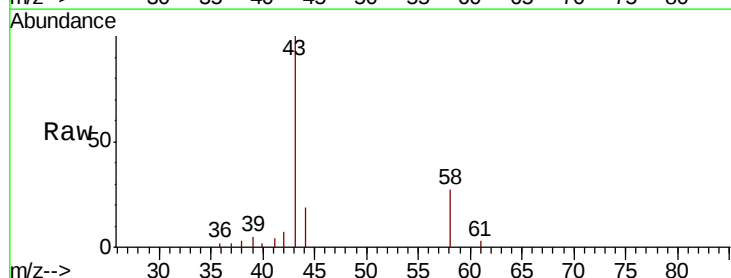
Manual Integrations
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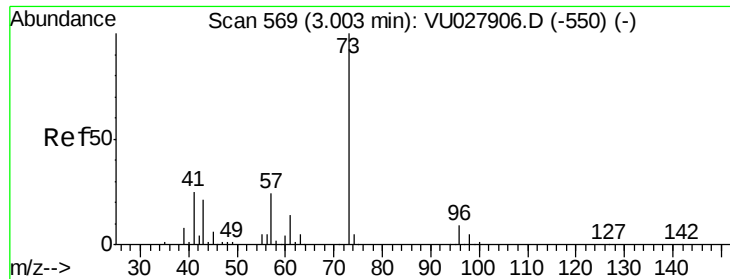
MMDadoda
 11/12/2018 12:02:00 PM



#16
 Acetone
 Concen: 7.030 ug/l
 RT: 2.32 min Scan# 358
 Delta R.T. -0.00 min
 Lab File: VU028043.D
 Acq: 09 Nov 2018 14:37

Tgt Ion	Ratio	Lower	Upper
43	100		
58	27.8	24.6	37.0





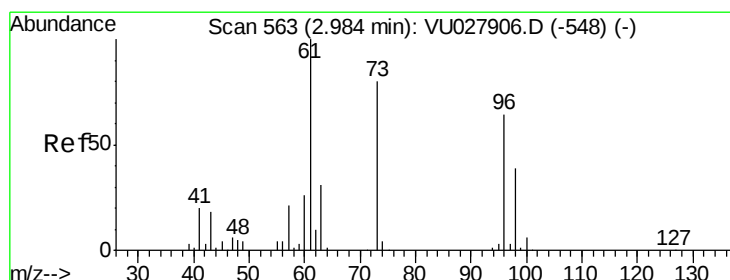
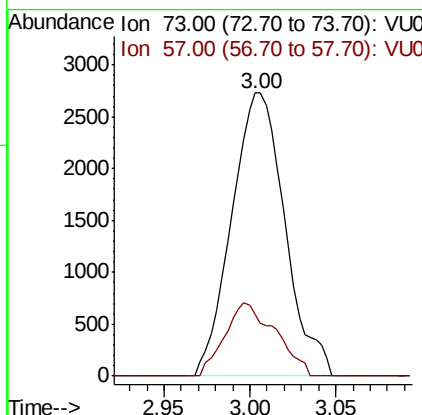
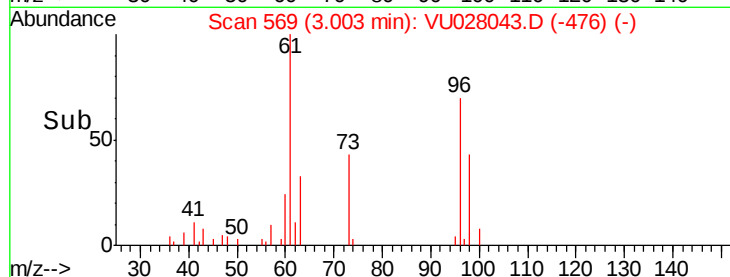
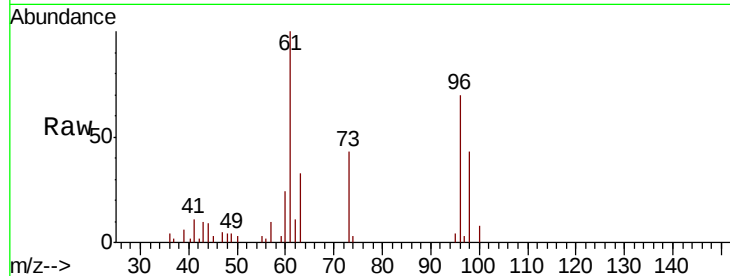
#19
Methvl tert-butvl Ether
Concen: 0.735 ug/l
RT: 3.00 min Scan# 569
Delta R.T. -0.00 min
Lab File: VU028043.D
Acq: 09 Nov 2018 14:37

Instrument :
MSVOA_U
ClientSampleId :
MW-1

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.0	19.3	28.9

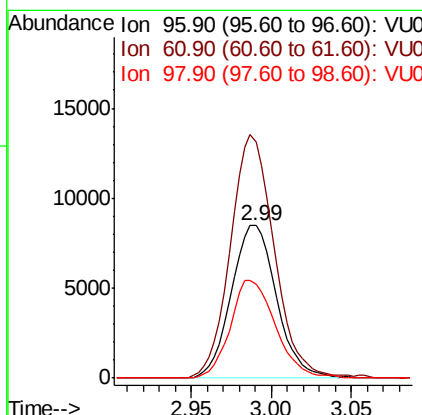
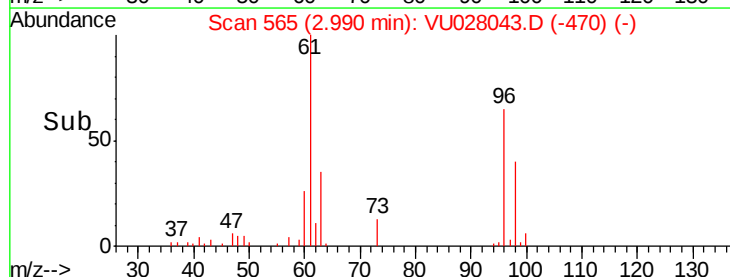
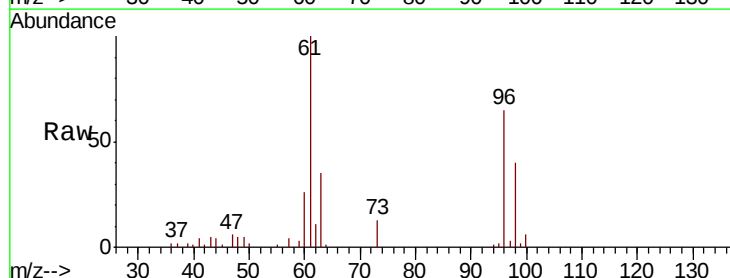
Manual Integrations
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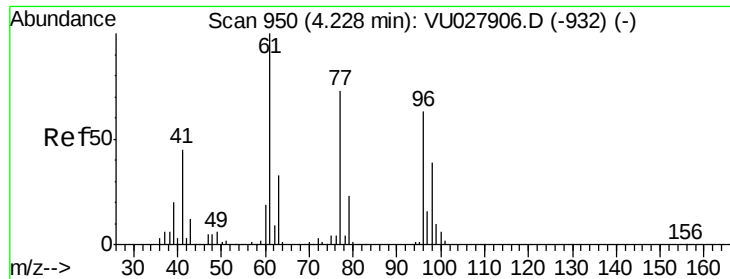
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11/12/2018 12:02:00 PM



#21
trans-1,2-Dichloroethene
Concen: 7.126 ug/l
RT: 2.99 min Scan# 565
Delta R.T. 0.01 min
Lab File: VU028043.D
Acq: 09 Nov 2018 14:37

Tgt Ion	Ratio	Lower	Upper
96	100		
61	154.7	125.0	187.6
98	61.3	48.2	72.4





#27

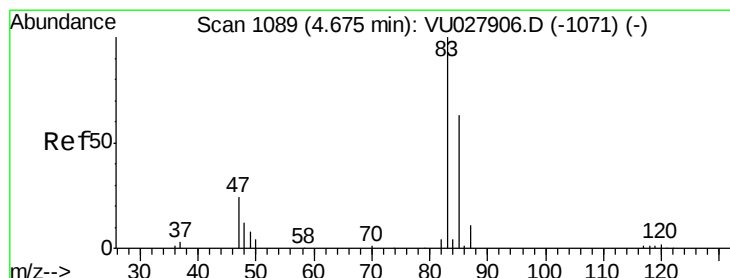
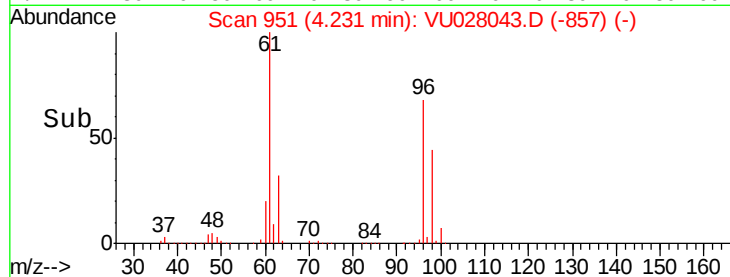
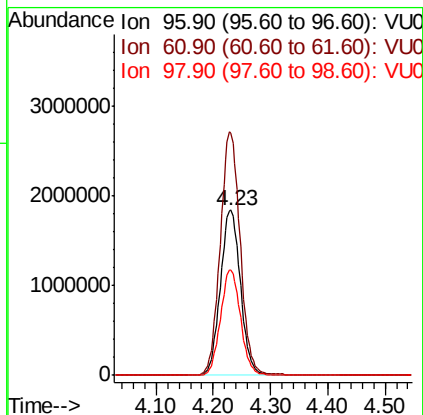
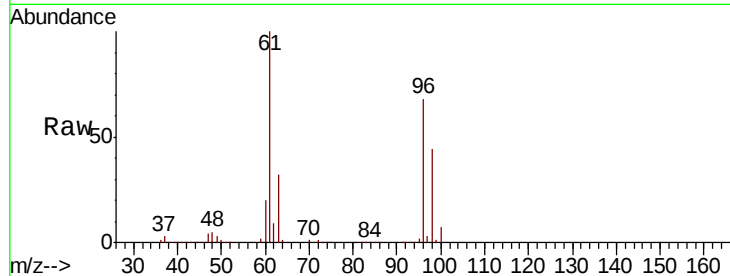
cis-1,2-Dichloroethene
 Concen: 1747.036 ug/l
 RT: 4.23 min Scan# 951
 Delta R.T. 0.00 min
 Lab File: VU028043.D
 Acq: 09 Nov 2018 14:37

Instrument :
 MSVOA_U
 ClientSampled :
 MW-1

Tot Ion	Ratio	Lower	Upper
96	100		
61	146.3	0.0	329.6
98	63.9	0.0	127.2

Manual Integrations
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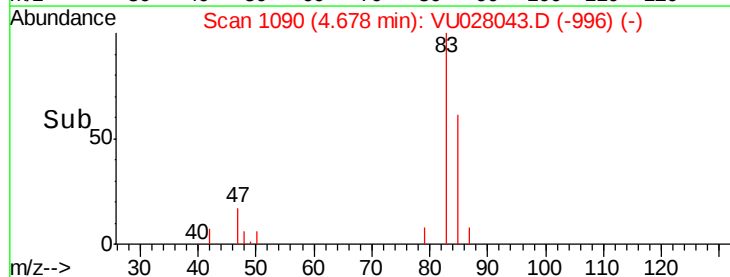
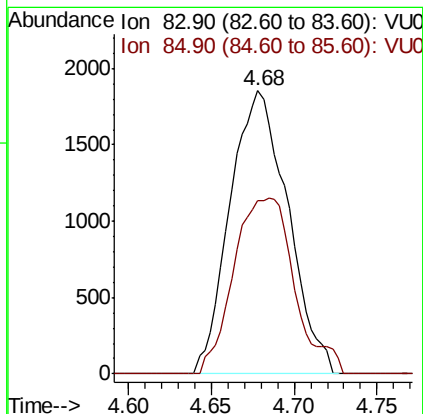
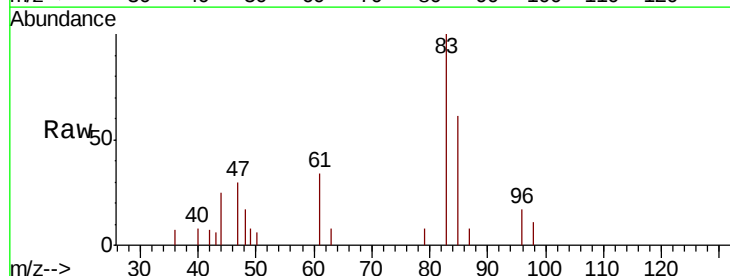
MMDadoda
 11/12/2018 12:02:00 PM

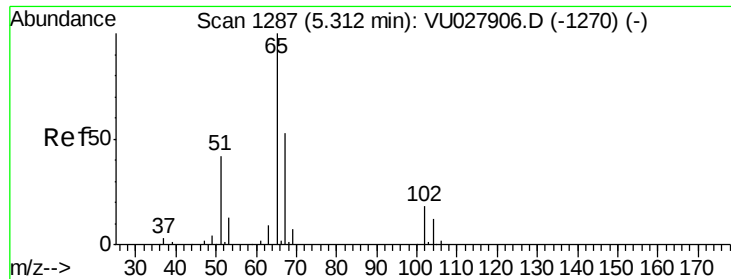


#30

Chloroform
 Concen: 0.982 ug/l
 RT: 4.68 min Scan# 1090
 Delta R.T. 0.00 min
 Lab File: VU028043.D
 Acq: 09 Nov 2018 14:37

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.2	50.6	76.0





#33

1,2-Dichloroethane-d4

Concen: 57.166 ug/l

RT: 5.31 min Scan# 1287

Delta R.T. -0.00 min

Lab File: VU028043.D

Acq: 09 Nov 2018 14:37

Instrument :

MSVOA_U

ClientSampleId :

MW-1

Tot Ion: 65 Resp: 161081

Ion Ratio Lower Upper

65 100

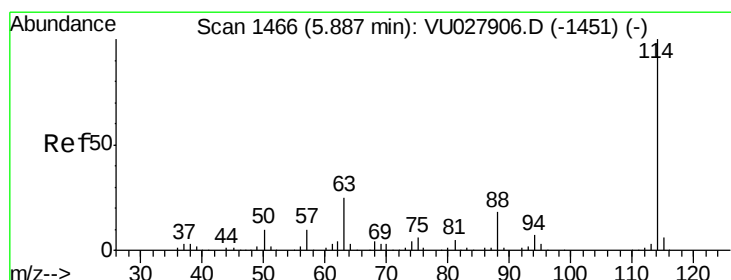
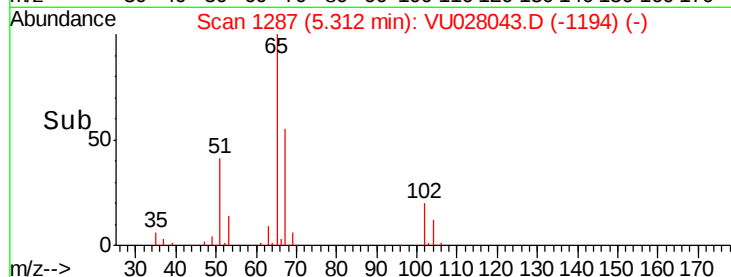
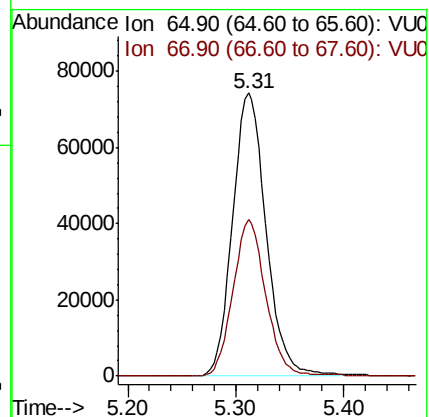
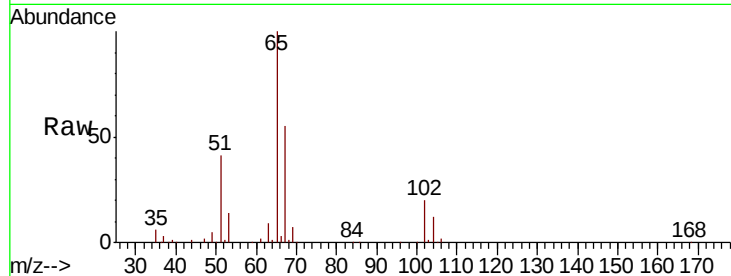
67 54.0 0.0 109.0

Manual Integrations

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11/12/2018 12:02:00 PM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1467

Delta R.T. 0.00 min

Lab File: VU028043.D

Acq: 09 Nov 2018 14:37

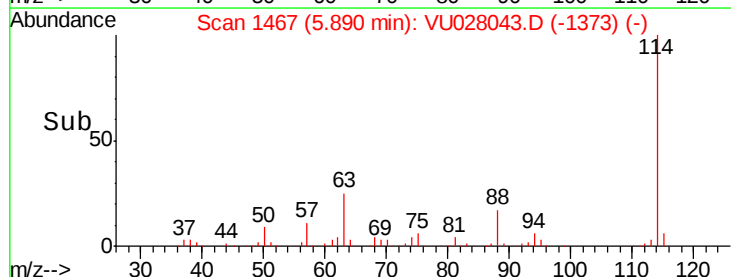
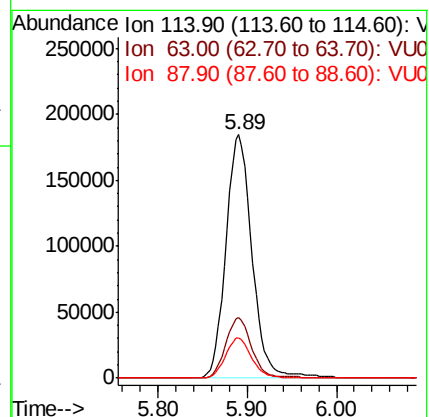
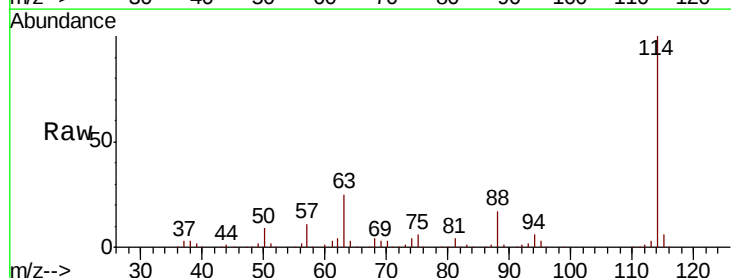
Tgt Ion: 114 Resp: 374578

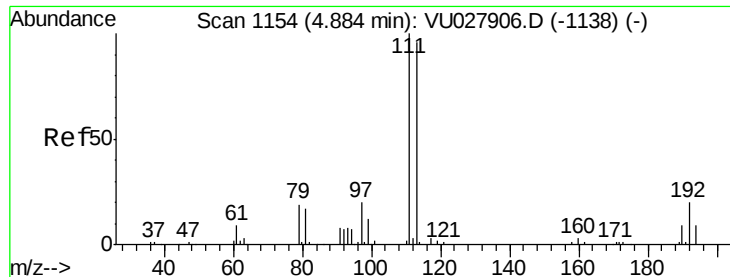
Ion Ratio Lower Upper

114 100

63 24.9 0.0 50.8

88 16.7 0.0 35.8





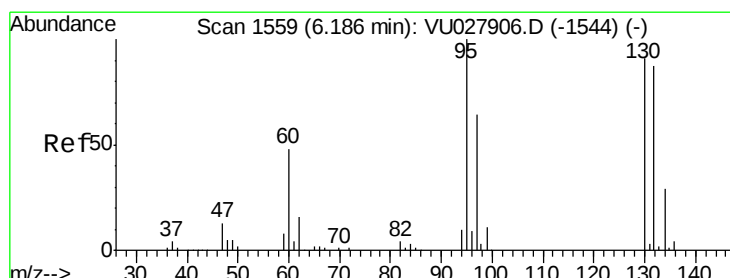
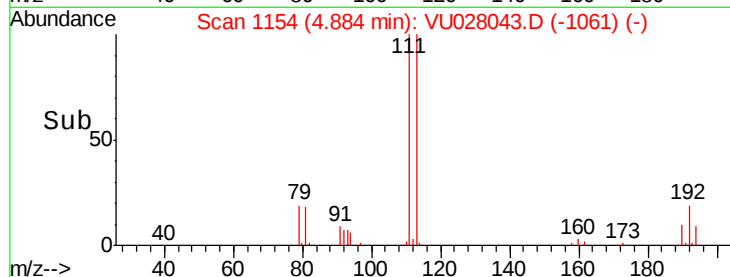
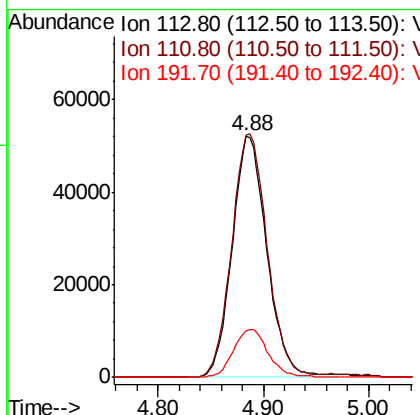
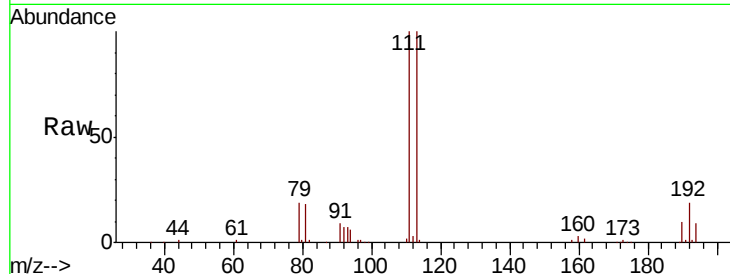
#35
 Dibromofluoromethane
 Concen: 50.374 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: VU028043.D
 Acq: 09 Nov 2018 14:37

Instrument :
 MSVOA_U
 ClientSampled :
 MW-1

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.2	83.0	124.6
192	19.9	15.6	23.4

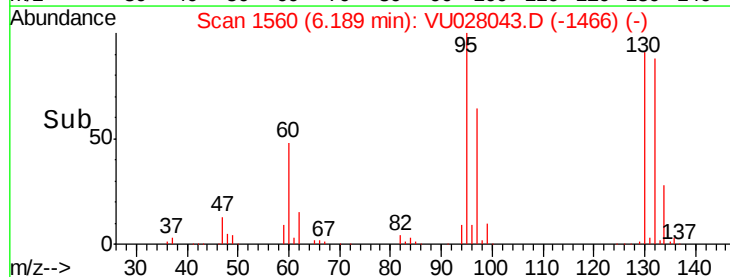
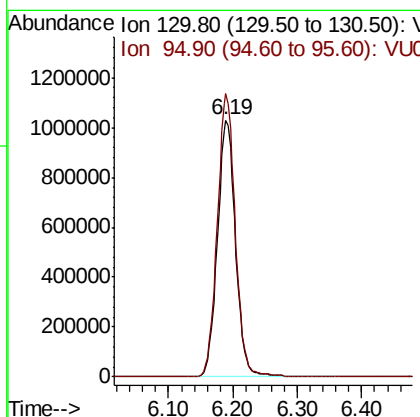
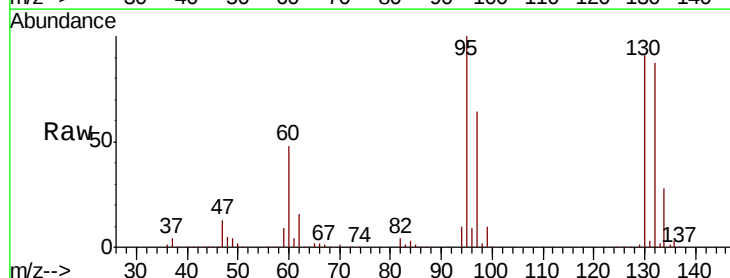
Manual Integrations
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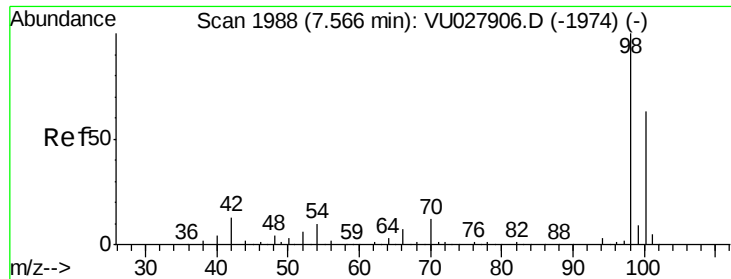
MMDadoda
 11/12/2018 12:02:00 PM



#44
 Trichloroethene
 Concen: 782.419 ug/l
 RT: 6.19 min Scan# 1560
 Delta R.T. 0.00 min
 Lab File: VU028043.D
 Acq: 09 Nov 2018 14:37

Tgt Ion	Ratio	Lower	Upper
130	100		
95	110.1	0.0	219.2





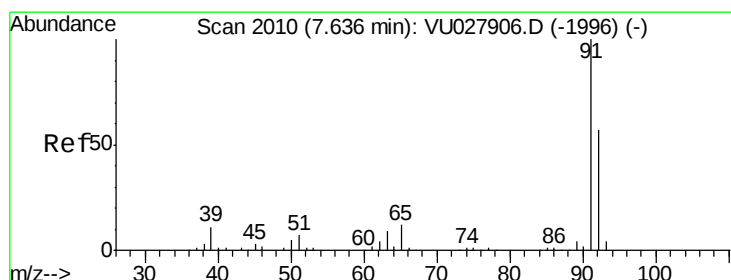
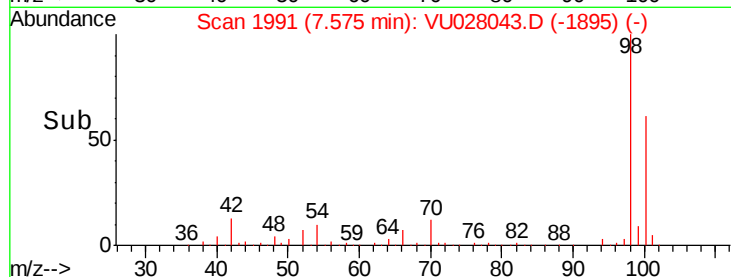
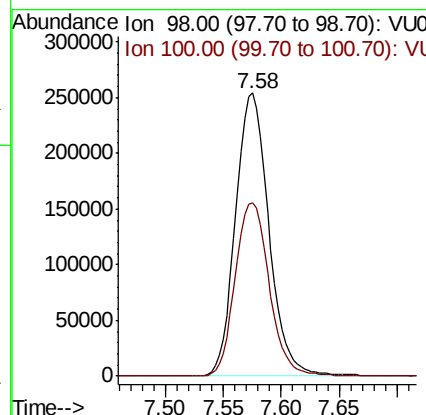
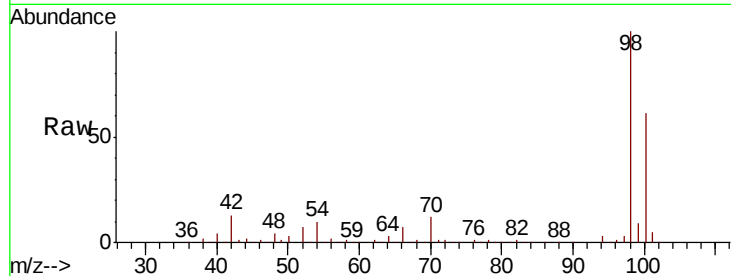
#50
Toluene-d8
Concen: 55.719 ug/l
RT: 7.58 min Scan# 1991
Delta R.T. 0.01 min
Lab File: VU028043.D
Acq: 09 Nov 2018 14:37

Instrument :
MSVOA_U
ClientSampleId :
MW-1

Tot Ion: 98 Resp: 508339
Ion Ratio Lower Upper
98 100
100 62.9 50.1 75.1

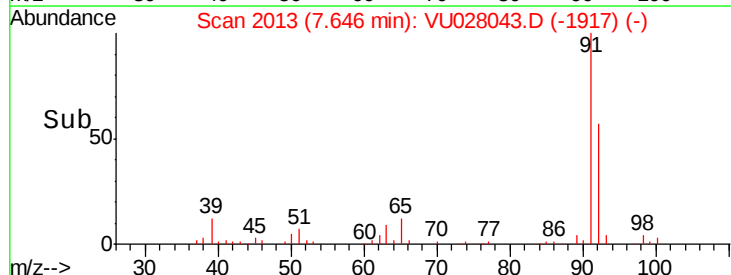
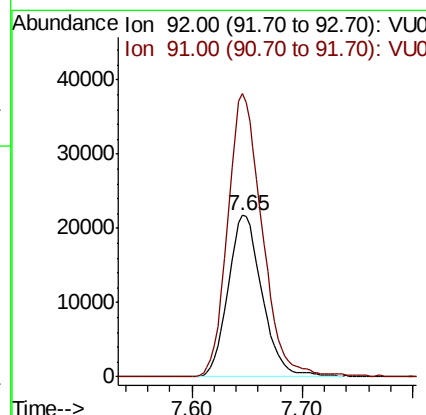
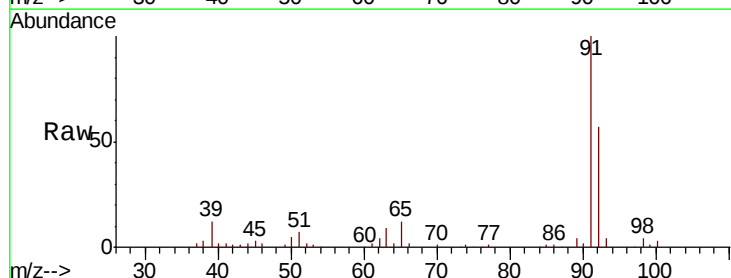
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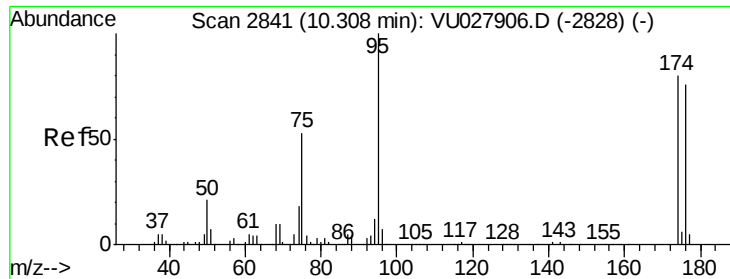
MMDadoda
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#52
Toluene
Concen: 6.626 ug/l
RT: 7.65 min Scan# 2013
Delta R.T. 0.01 min
Lab File: VU028043.D
Acq: 09 Nov 2018 14:37

Tgt Ion: 92 Resp: 46722
Ion Ratio Lower Upper
92 100
91 176.6 141.2 211.8





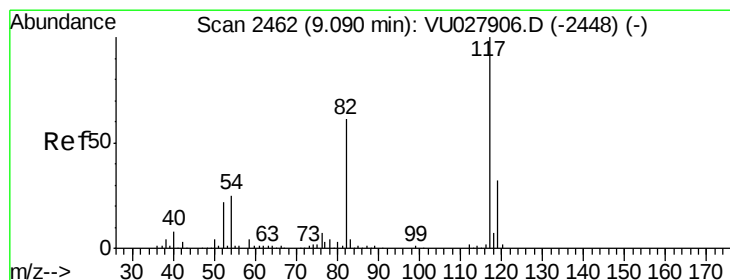
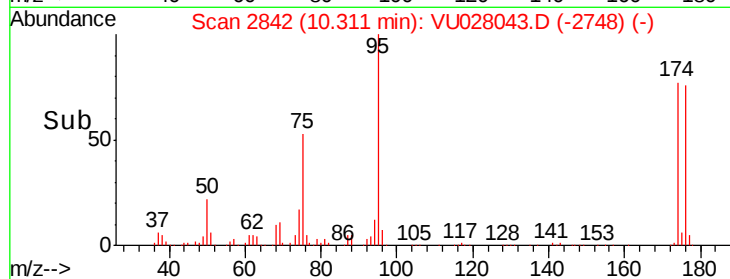
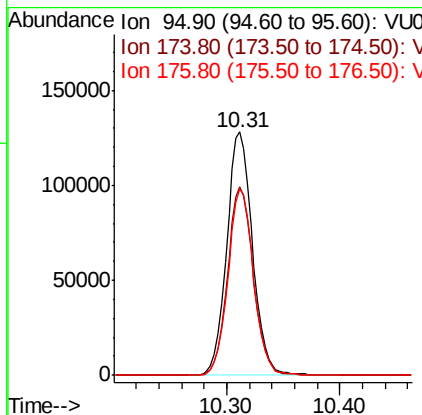
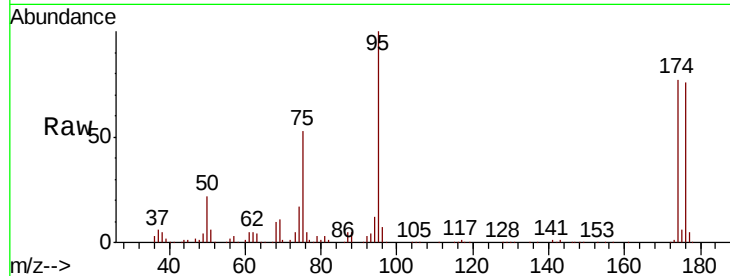
#62
4-Bromofluorobenzene
Concen: 60.125 ug/l
RT: 10.31 min Scan# 2842
Delta R.T. 0.00 min
Lab File: VU028043.D
Acq: 09 Nov 2018 14:37

Instrument :
MSVOA_U
ClientSampleId :
MW-1

Tot Ion	Ratio	Resp	Lower	Upper
95	100	202326		
174	77.3	0.0	156.4	
176	75.8	0.0	150.8	

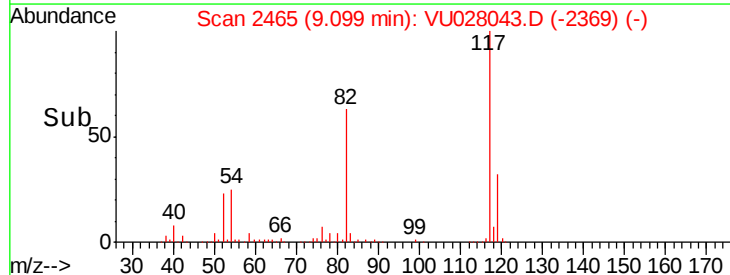
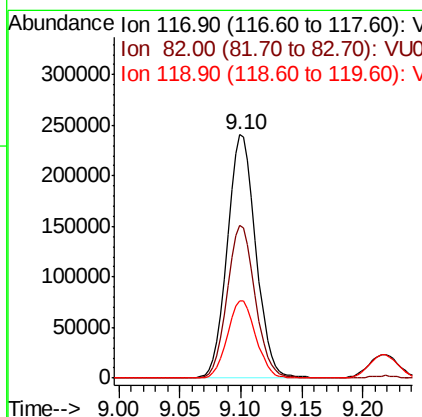
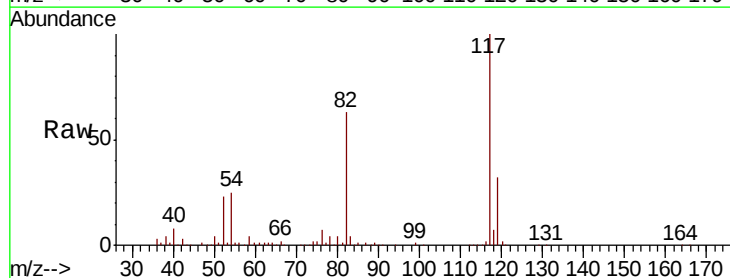
Manual Integrations
APPROVED

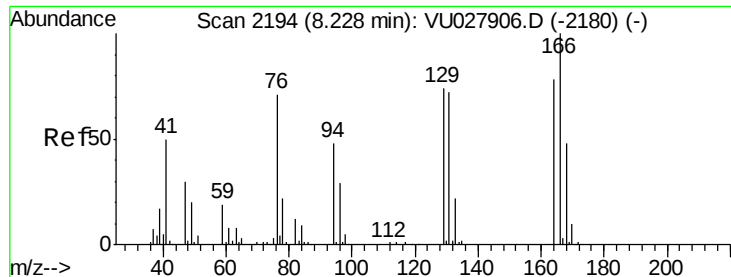
MMDadoda
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#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.10 min Scan# 2465
Delta R.T. 0.01 min
Lab File: VU028043.D
Acq: 09 Nov 2018 14:37

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	394426		
82	62.9	48.6	73.0	
119	31.9	25.8	38.8	





#64

Tetrachloroethene

Concen: 34257.750 ug/l m

RT: 8.24 min Scan# 2198

Delta R.T. 0.01 min

Lab File: VU028043.D

Acq: 09 Nov 2018 14:37

Instrument :

MSVOA_U

ClientSampled :

MW-1

Tot Ion:164 Resp:87616416

Ion Ratio Lower Upper

164 100

166 100.0 102.1 153.1#

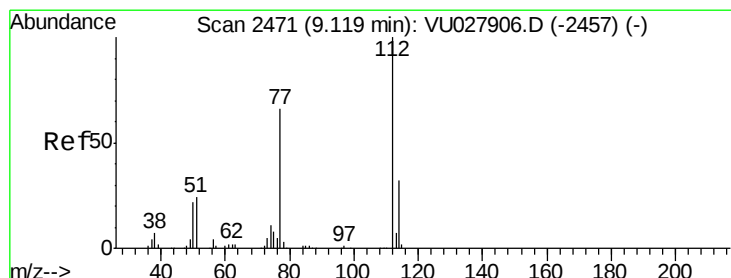
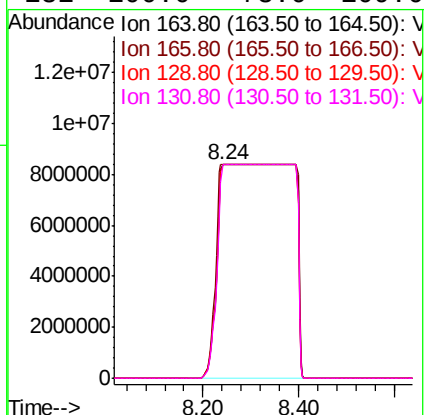
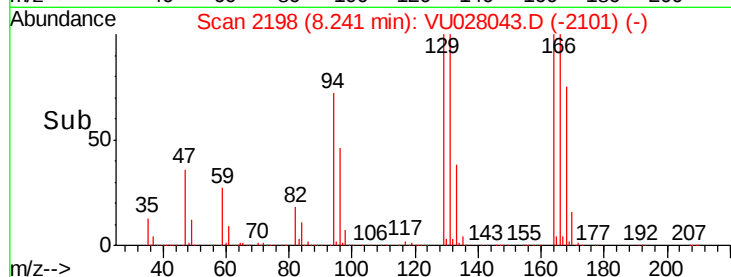
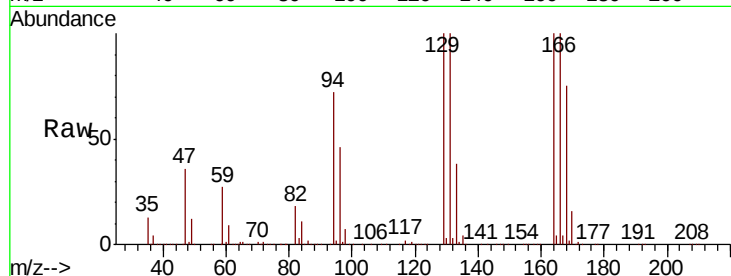
129 100.0 75.9 113.9

131 100.0 73.0 109.6

Manual Integrations
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#65

Chlorobenzene

Concen: 2.603 ug/l

RT: 9.13 min Scan# 2475

Delta R.T. 0.01 min

Lab File: VU028043.D

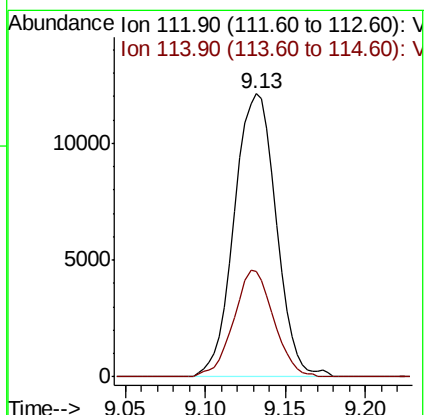
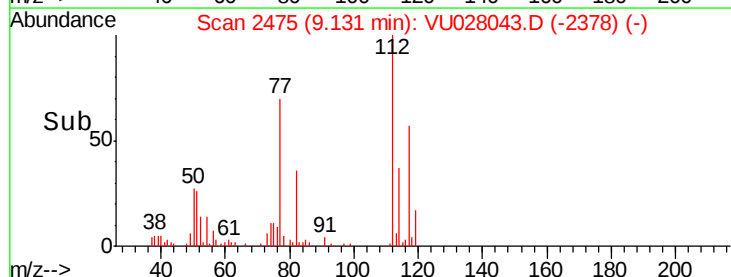
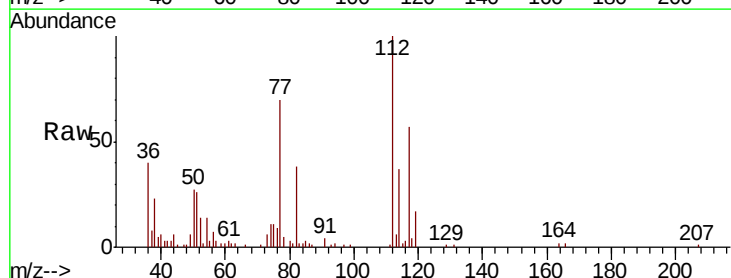
Acq: 09 Nov 2018 14:37

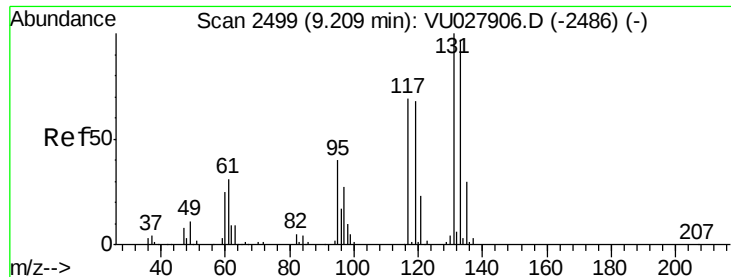
Tgt Ion:112 Resp: 21691

Ion Ratio Lower Upper

112 100

114 37.3 25.2 37.8





#66

1,1,1,2-Tetrachloroethane

Concen: 19.388 ug/l

RT: 9.22 min Scan# 2502

Delta R.T. 0.01 min

Lab File: VU028043.D

Acq: 09 Nov 2018 14:37

Instrument :

MSVOA_U

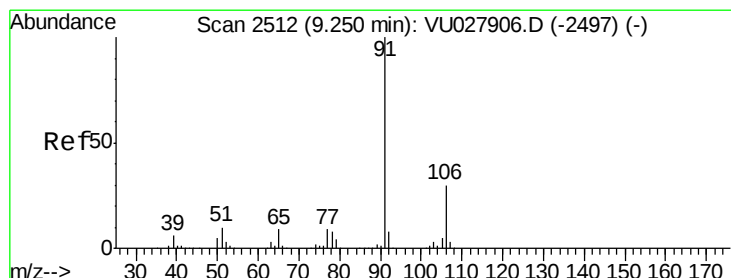
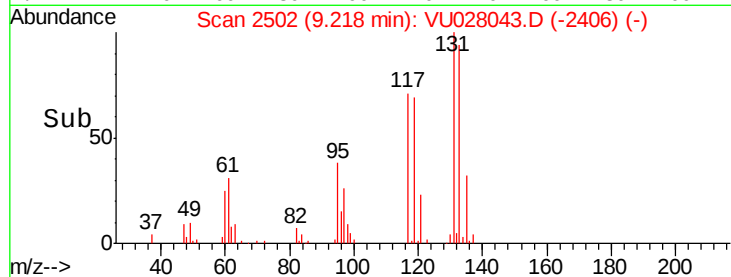
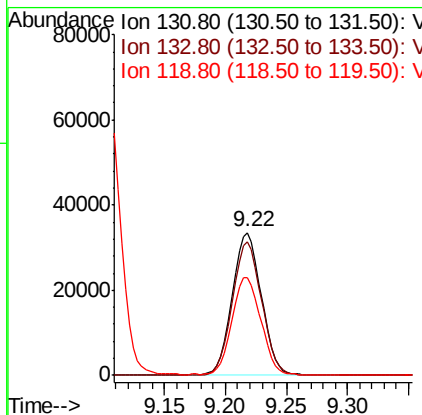
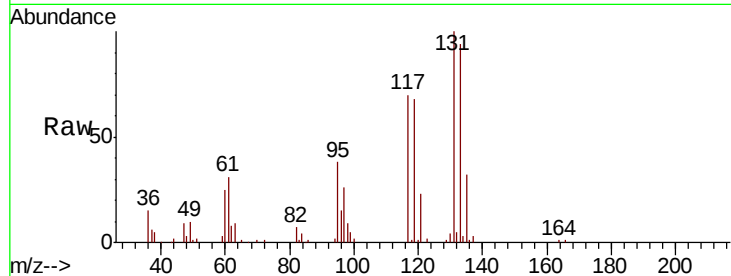
ClientSampled :

MW-1

Tot Ion:	131	Resp:	55185
Ion Ratio	Lower	Upper	
131	100		
133	94.9	48.1	144.4
119	69.2	34.0	101.8

Manual Integrations
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#67

Ethyl Benzene

Concen: 2.570 ug/l

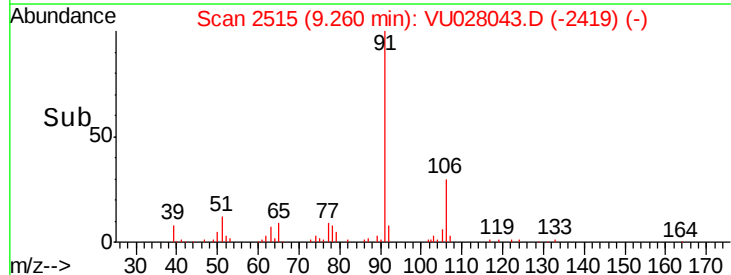
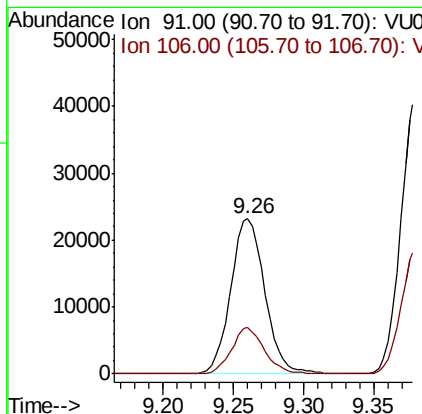
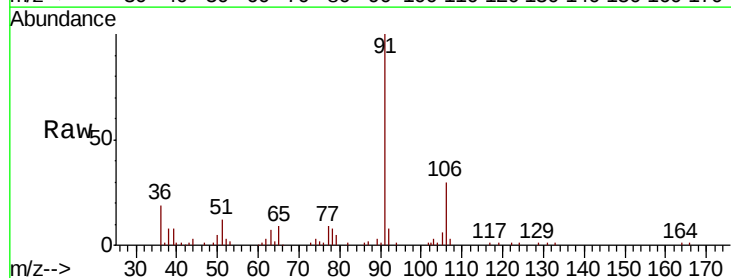
RT: 9.26 min Scan# 2515

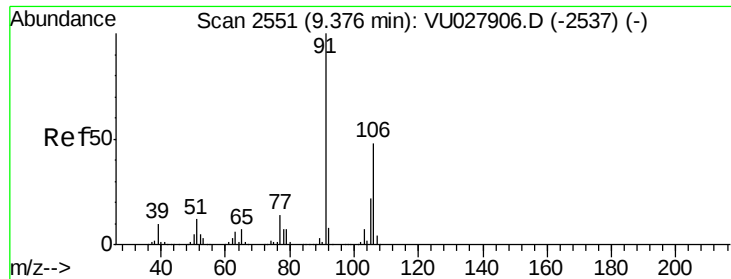
Delta R.T. 0.01 min

Lab File: VU028043.D

Acq: 09 Nov 2018 14:37

Tgt Ion:	91	Resp:	39416
Ion Ratio	Lower	Upper	
91	100		
106	29.7	23.6	35.4





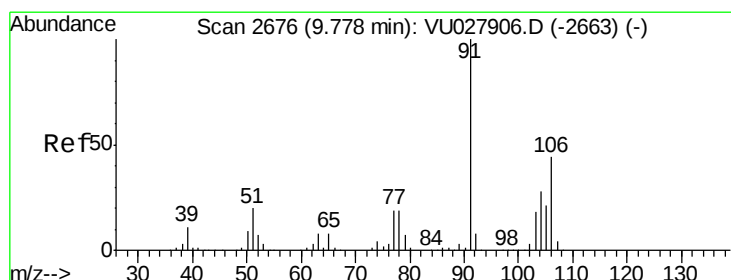
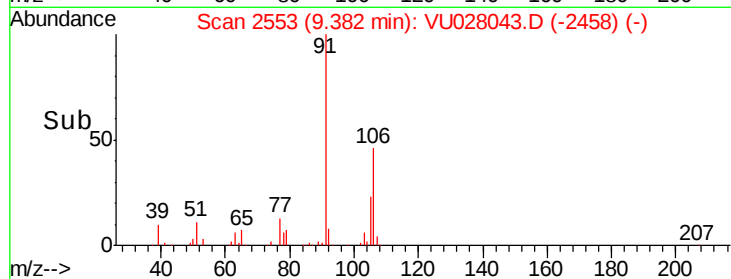
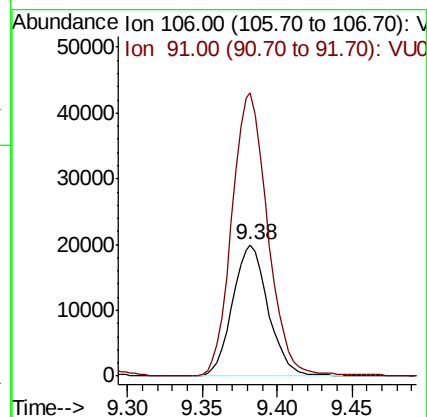
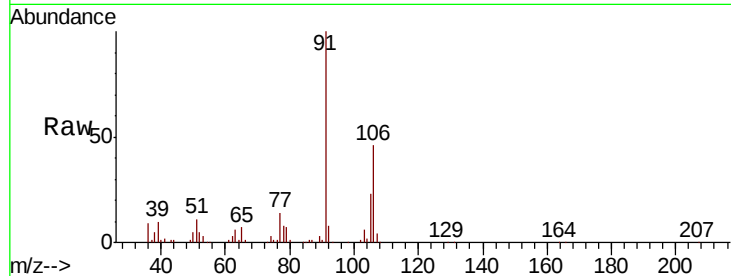
#68
m/p-Xylenes
Concen: 5.944 ug/l
RT: 9.38 min Scan# 2553
Delta R.T. 0.01 min
Lab File: VU028043.D
Acq: 09 Nov 2018 14:37

Instrument :
MSVOA_U
ClientSampled :
MW-1

Tot Ion:106 Resp: 33084
Ion Ratio Lower Upper
106 100
91 217.5 168.2 252.4

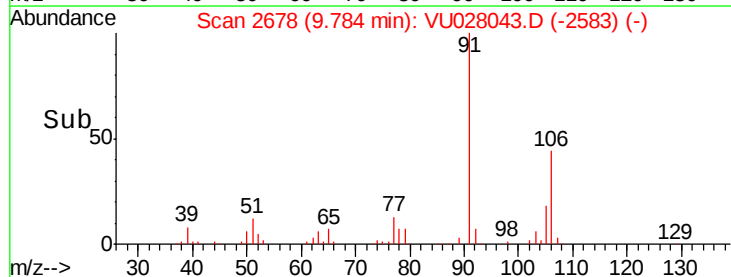
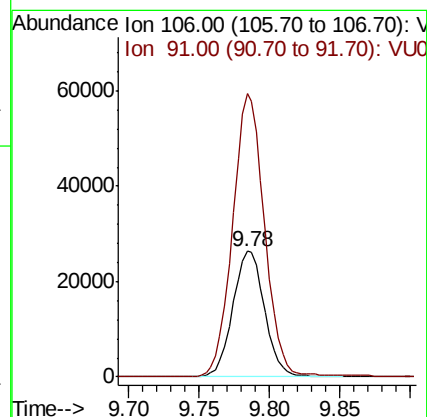
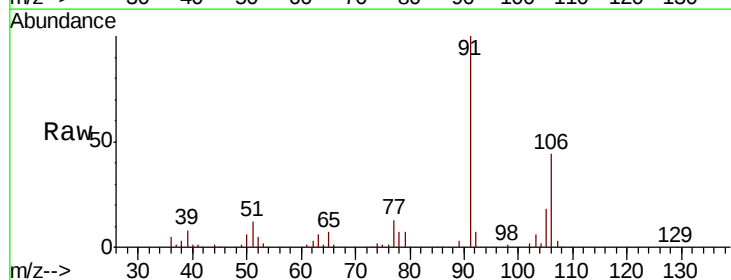
Manual Integrations
APPROVED

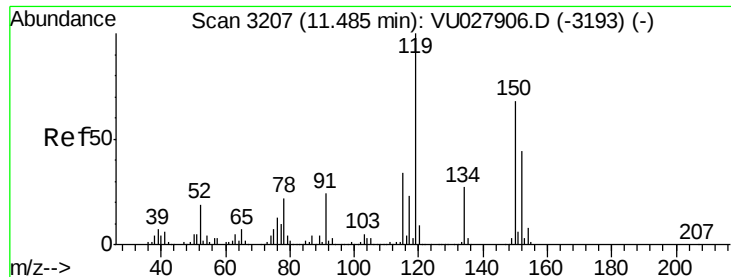
MMDadoda
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#69
o-Xylene
Concen: 7.411 ug/l
RT: 9.78 min Scan# 2678
Delta R.T. 0.01 min
Lab File: VU028043.D
Acq: 09 Nov 2018 14:37

Tgt Ion:106 Resp: 41649
Ion Ratio Lower Upper
106 100
91 224.8 111.1 333.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3207

Delta R.T. -0.00 min

Lab File: VU028043.D

Acq: 09 Nov 2018 14:37

Instrument :

MSVOA_U

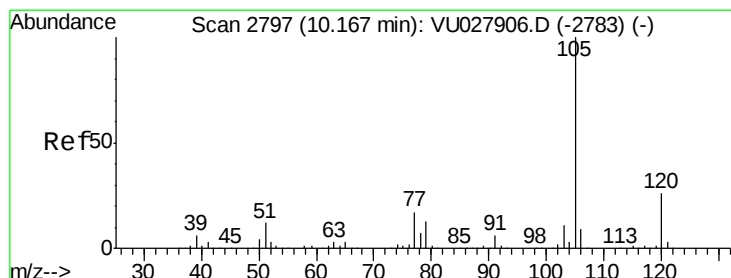
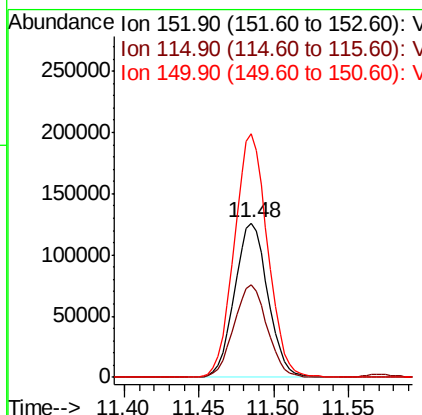
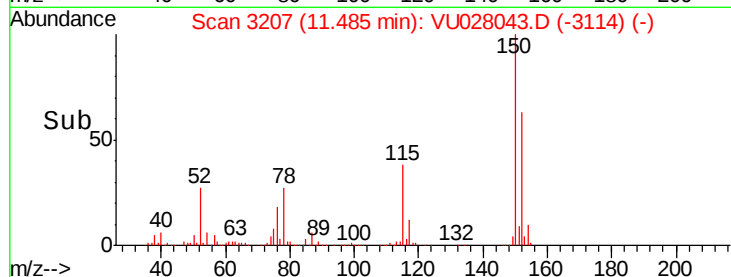
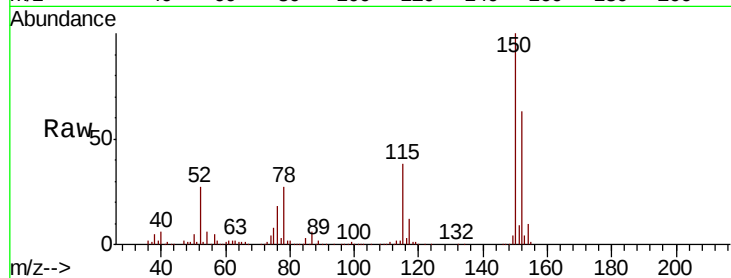
ClientSampleId :

MW-1

Tot Ion	Ratio	Resp	Lower	Upper
152	100	195193		
115	59.9	43.0	129.0	
150	158.1	0.0	349.4	

Manual Integrations
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#73

Isopropylbenzene

Concen: 4.037 ug/l

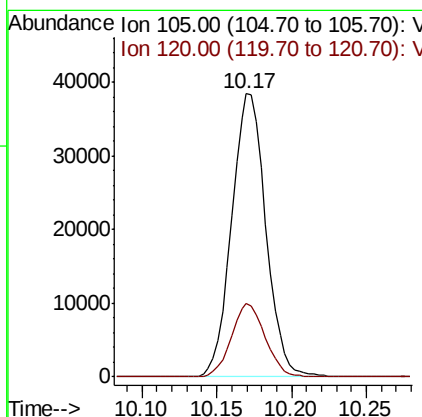
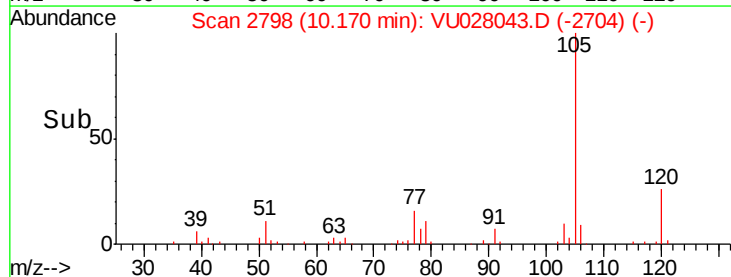
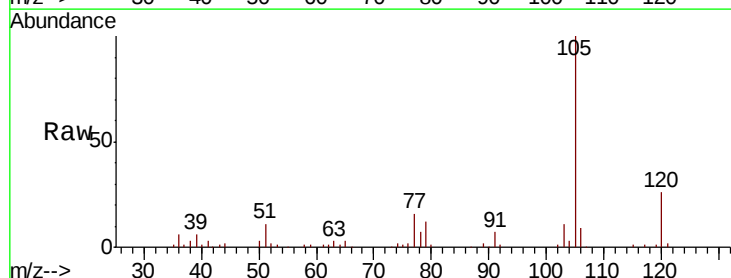
RT: 10.17 min Scan# 2798

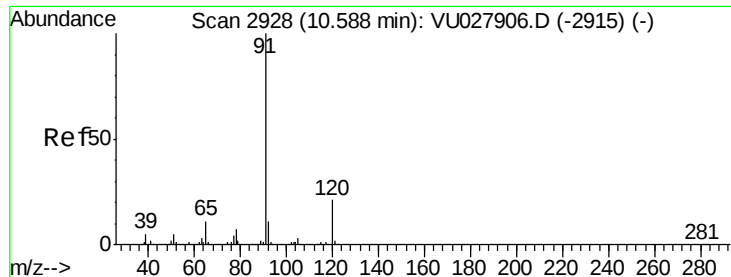
Delta R.T. 0.00 min

Lab File: VU028043.D

Acq: 09 Nov 2018 14:37

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	61042		
120	25.4	12.7	38.0	





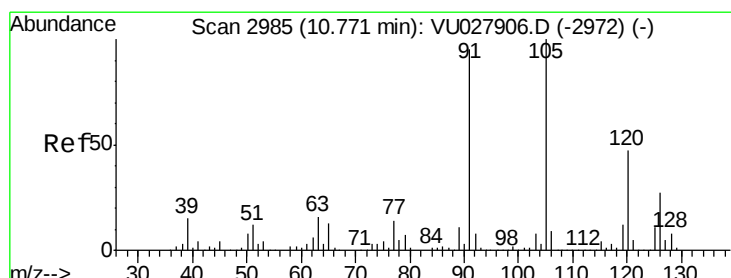
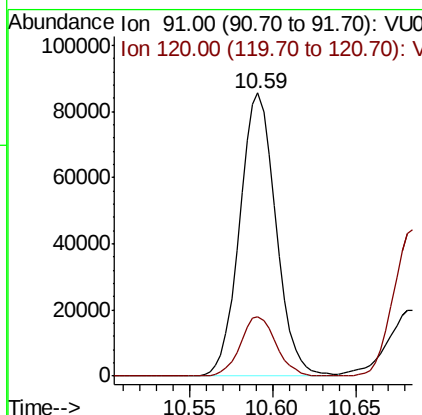
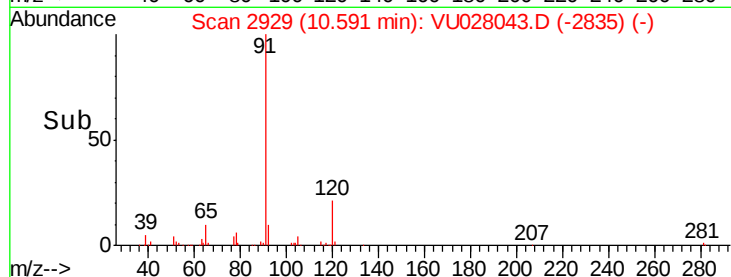
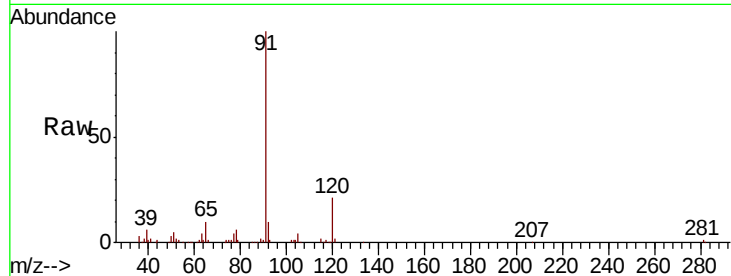
#78
n-propylbenzene
Concen: 7.189 ug/l
RT: 10.59 min Scan# 2929
Delta R.T. 0.00 min
Lab File: VU028043.D
Acq: 09 Nov 2018 14:37

Instrument :
MSVOA_U
ClientSampled :
MW-1

Tot Ion	Ratio	Lower	Upper
91	100		
120	20.8	10.6	31.8

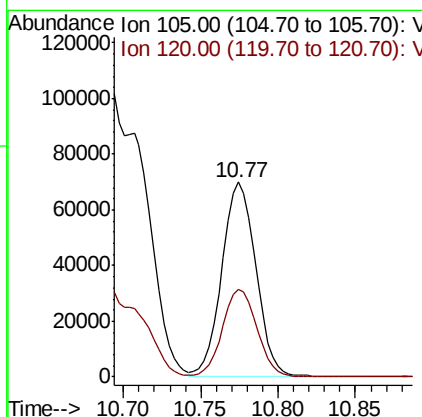
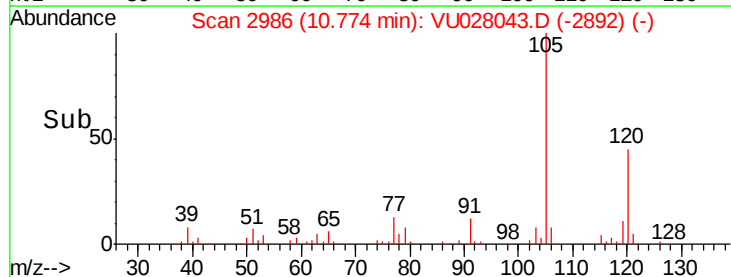
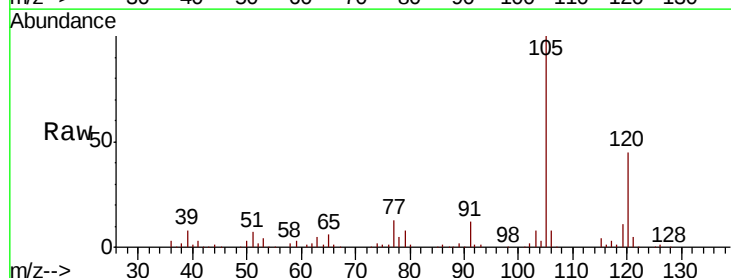
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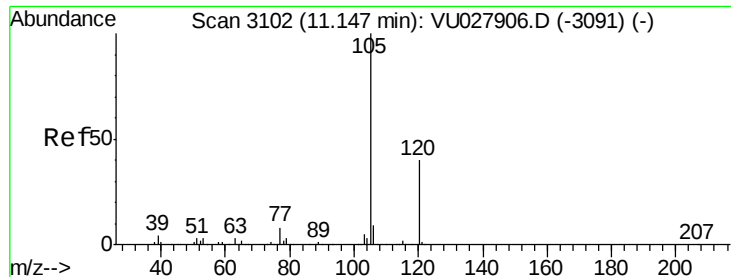
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#80
1,3,5-Trimethylbenzene
Concen: 8.590 ug/l
RT: 10.77 min Scan# 2986
Delta R.T. 0.00 min
Lab File: VU028043.D
Acq: 09 Nov 2018 14:37

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.1	23.3	69.9





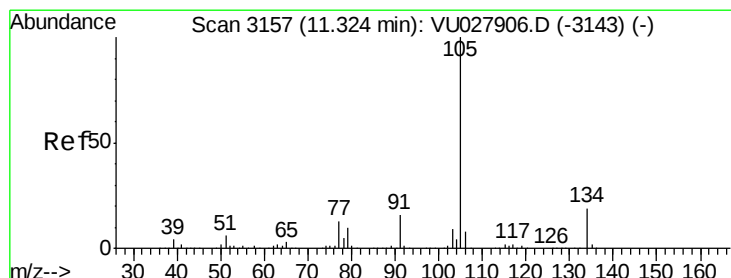
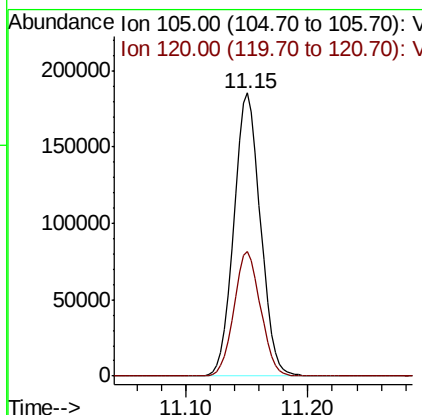
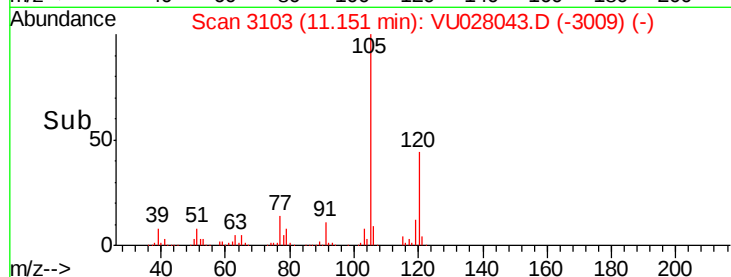
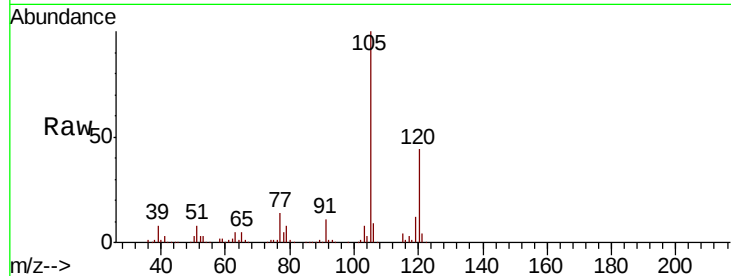
#84
 1,2,4-Trimethylbenzene
 Concen: 22.216 ug/l
 RT: 11.15 min Scan# 3103
 Delta R.T. 0.00 min
 Lab File: VU028043.D
 Acq: 09 Nov 2018 14:37

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-1

Tot Ion	Ratio	Lower	Upper
105	100		
120	44.0	22.1	66.1

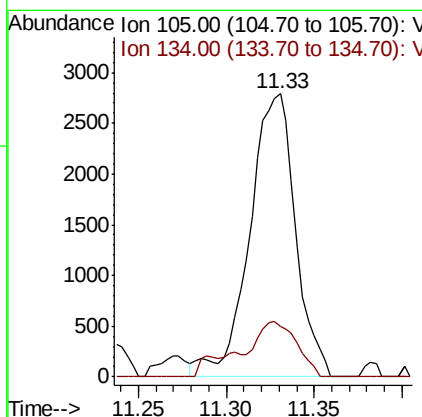
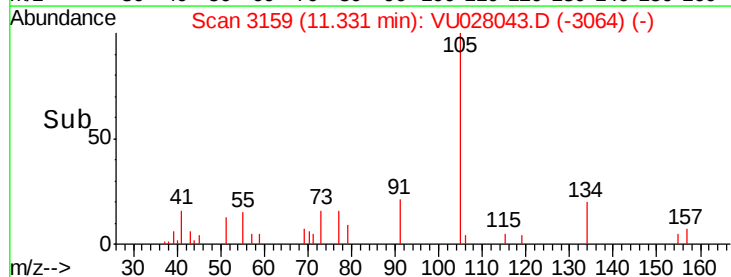
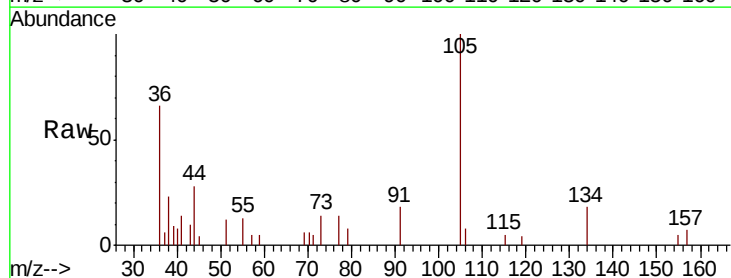
Manual Integrations
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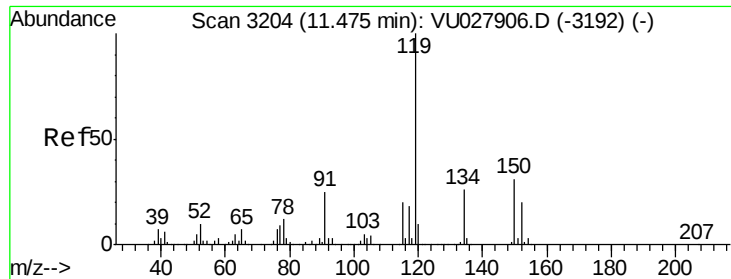
MMDadoda
 11/12/2018 12:02:00 PM



#85
 sec-Butylbenzene
 Concen: 0.333 ug/l m
 RT: 11.33 min Scan# 3159
 Delta R.T. 0.01 min
 Lab File: VU028043.D
 Acq: 09 Nov 2018 14:37

Tgt Ion	Ratio	Lower	Upper
105	100		
134	0.0	9.2	27.6





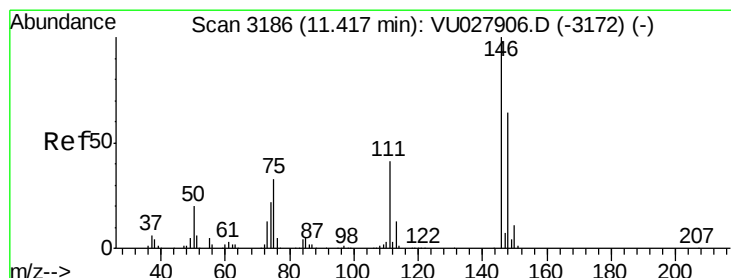
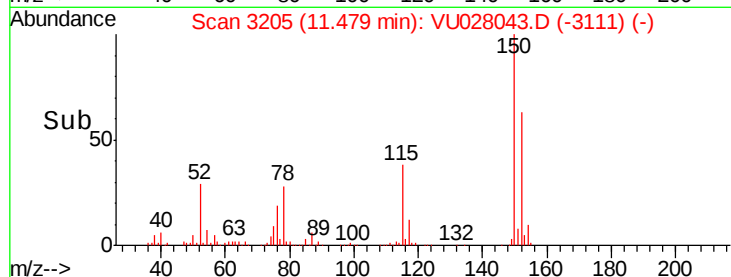
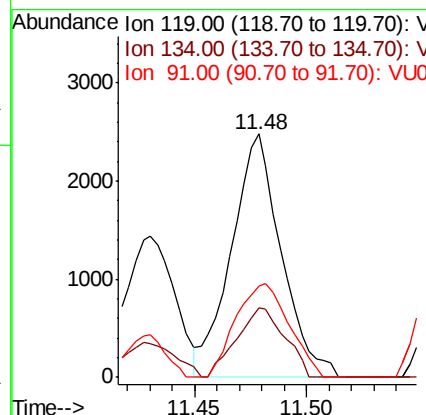
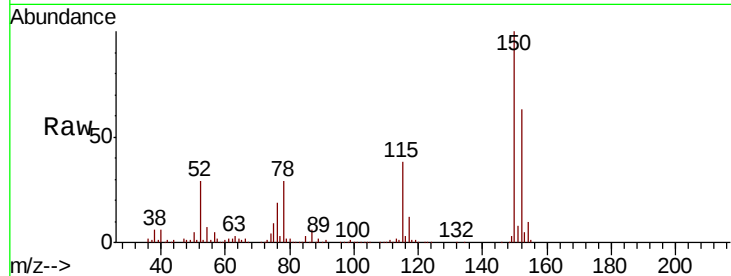
#86
p-Isopropyltoluene
Concen: 0.301 ug/l m
RT: 11.48 min Scan# 3205
Delta R.T. 0.00 min
Lab File: VU028043.D
Acq: 09 Nov 2018 14:37

Instrument :
MSVOA_U
ClientSampled :
MW-1

Tot Ion	Ratio	Lower	Upper
119	100		
134	15.1	12.9	38.7
91	15.3	12.4	37.2

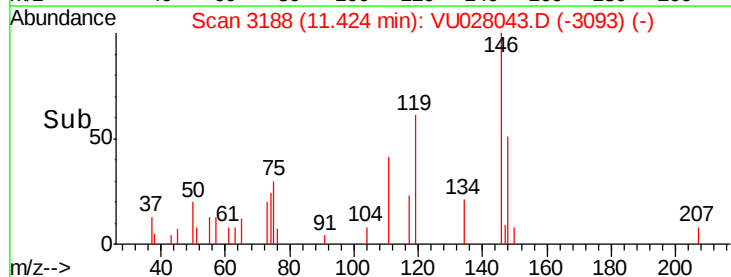
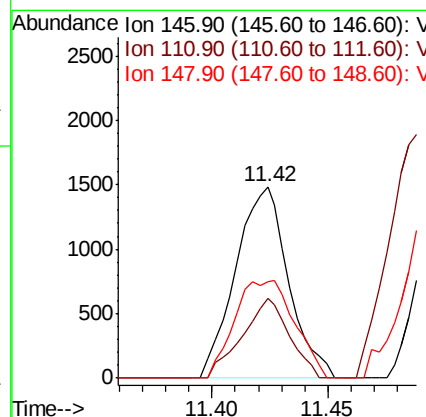
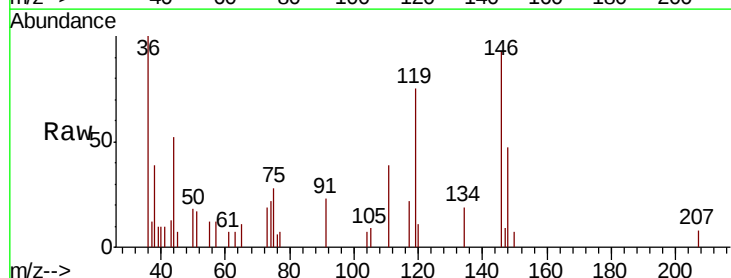
Manual Integrations
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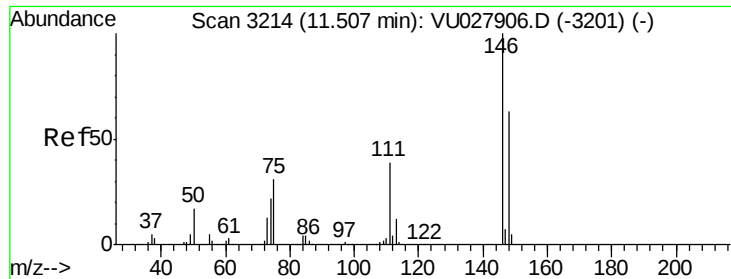
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#87
1,3-Dichlorobenzene
Concen: 0.366 ug/l
RT: 11.42 min Scan# 3188
Delta R.T. 0.01 min
Lab File: VU028043.D
Acq: 09 Nov 2018 14:37

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.3	20.3	61.0
148	58.0	31.8	95.4





#88

1,4-Dichlorobenzene

Concen: 1.268 ug/l

RT: 11.51 min Scan# 3214

Delta R.T. -0.00 min

Lab File: VU028043.D

Acq: 09 Nov 2018 14:37

Instrument :

MSVOA_U

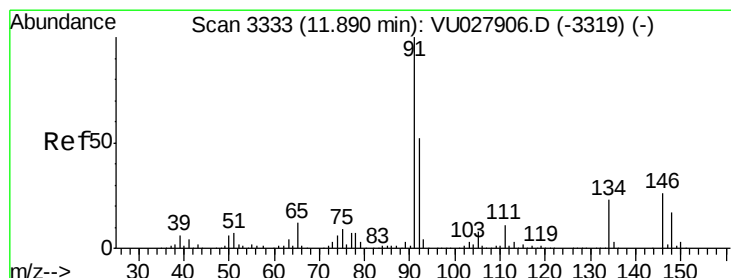
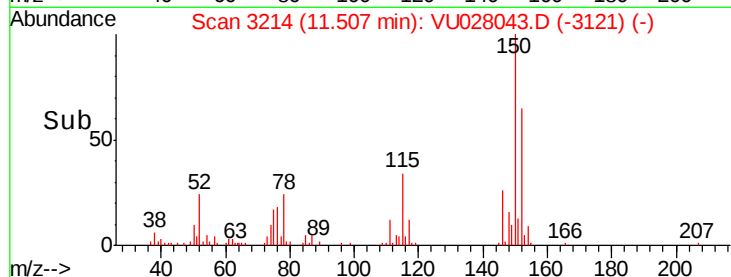
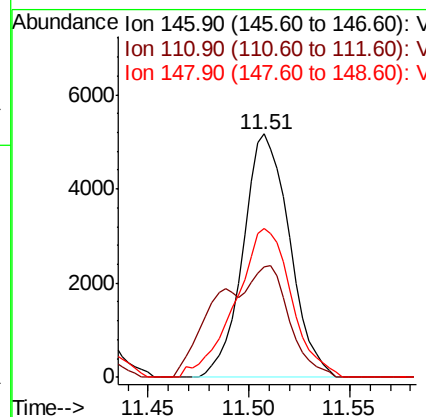
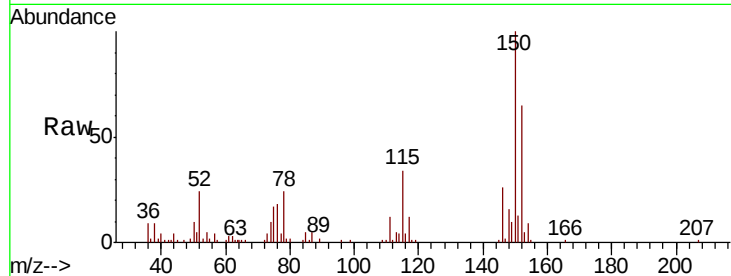
ClientSampled :

MW-1

Tot Ion:	146	Resp:	8326
Ion	Ratio	Lower	Upper
146	100		
111	37.5	20.3	60.9
148	73.7	32.0	96.2

Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:02:00 PM



#89

n-Butylbenzene

Concen: 0.762 ug/l

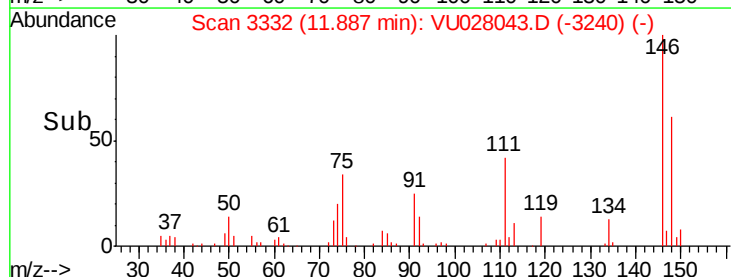
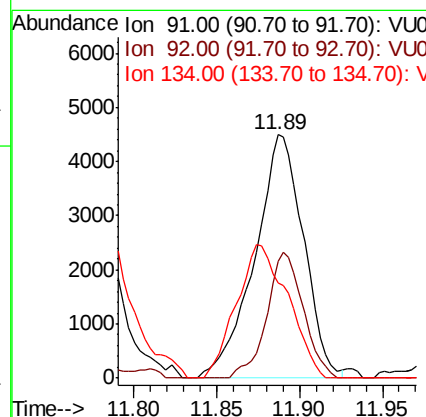
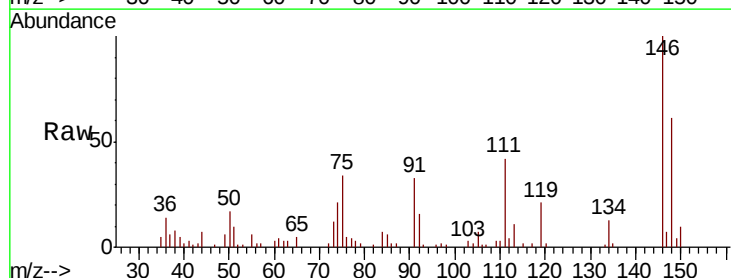
RT: 11.89 min Scan# 3332

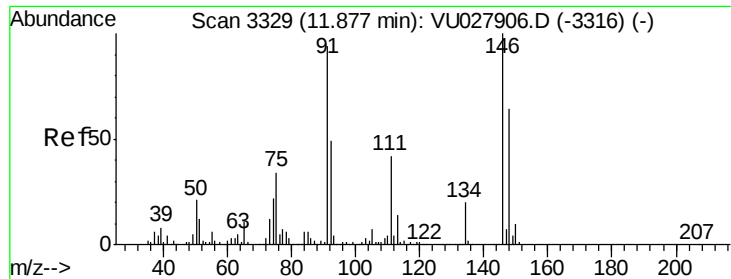
Delta R.T. -0.00 min

Lab File: VU028043.D

Acq: 09 Nov 2018 14:37

Tgt Ion:	91	Resp:	9226
Ion	Ratio	Lower	Upper
91	100		
92	38.7	26.2	78.5
134	57.5	11.5	34.5#





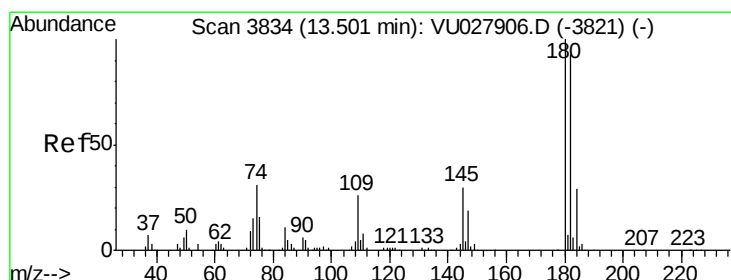
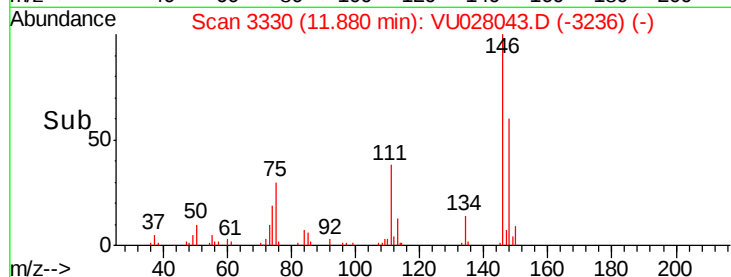
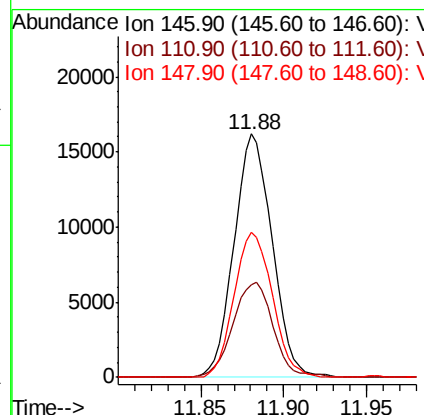
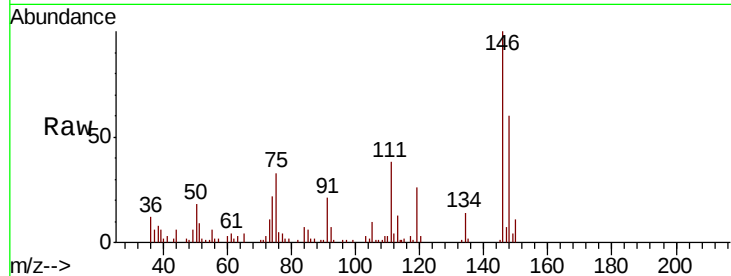
#91
 1,2-Dichlorobenzene
 Concen: 4.016 ug/l
 RT: 11.88 min Scan# 3330
 Delta R.T. 0.00 min
 Lab File: VU028043.D
 Acq: 09 Nov 2018 14:37

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-1

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.0	21.3	64.0
148	59.7	31.8	95.3

Manual Integrations
 APPROVED

MMDadoda
 11/12/2018 12:02:00 PM



#93
 1,2,4-Trichlorobenzene
 Concen: 2.630 ug/l
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.00 min
 Lab File: VU028043.D
 Acq: 09 Nov 2018 14:37

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.6	48.4	145.2
145	32.4	14.9	44.5

