

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU103018\
 Data File : VU027872.D
 Acq On : 30 Oct 2018 13:55
 Operator : MD/SY
 Sample : MDL01
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Manual Integrations
 APPROVED

MMDadoda
 11/1/2018 11:15:19 AM

Quant Time: Oct 31 02:32:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR103018WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Oct 31 02:11:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	83620	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	77419	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	38314	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	31197	4.78	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	95.60%
7) Chloroethane-d5	1.68	69	24267	4.81	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.20%
11) 1,1-Dichloroethene-d2	2.28	63	46747	3.77	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	75.40%
20) 2-Butanone-d5	4.20	46	94613	48.54	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.08%
24) Chloroform-d	4.65	84	54670	4.65	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.00%
26) 1,2-Dichloroethane-d4	5.31	65	31786	4.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.00%
32) Benzene-d6	5.34	84	104095	4.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.20%
36) 1,2-Dichloropropane-d6	6.33	67	35763	4.77	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.40%
41) Toluene-d8	7.57	98	98889	4.90	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.00%
43) trans-1,3-Dichloropropene-	7.85	79	14230	4.90	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	98.00%
46) 2-Hexanone-d5	8.31	63	78447	49.37	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.74%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	25804	4.86	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.20%
64) 1,2-Dichlorobenzene-d4	11.86	152	35657	4.86	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.21	85	2355	0.286 ug/L	94
3) Chloromethane	1.33	50	2763	0.338 ug/L	98
5) Vinyl chloride	1.40	62	2698	0.332 ug/L #	53
6) Bromomethane	1.63	94	989	0.370 ug/L	90
8) Chloroethane	1.70	64	1167m	0.245 ug/L	
9) Trichlorofluoromethane	1.89	101	3223	0.299 ug/L	94
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	2011	0.365 ug/L	88
12) 1,1-Dichloroethene	2.29	96	1875	0.361 ug/L #	1
13) Acetone	2.33	43	4535	3.691 ug/L	87
14) Carbon disulfide	2.48	76	6421	0.346 ug/L	95
15) Methyl Acetate	2.63	43	1513	0.460 ug/L #	68
16) Methylene chloride	2.70	84	2234	0.383 ug/L	88
17) Methyl tert-butyl Ether	3.01	73	4632	0.299 ug/L #	93
18) trans-1,2-Dichloroethene	2.98	96	1811	0.328 ug/L	89
19) 1,1-Dichloroethane	3.45	63	3796	0.326 ug/L	89
21) 2-Butanone	4.29	43	6423m	3.007 ug/L	
22) cis-1,2-Dichloroethene	4.22	96	2103	0.330 ug/L	82

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Manual Integrations
 APPROVED

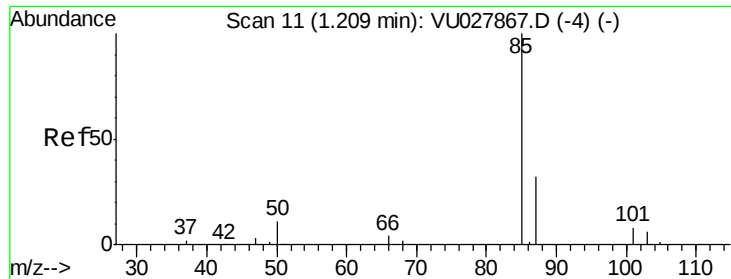
MMDadoda
 11/1/2018 11:15:19 AM

Quant Time: Oct 31 02:32:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR103018WMA.M
 Quant Title : TRACE VOA SOM01.0
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.55	128	599	0.227	ug/L	89
25) Chloroform	4.67	83	4047	0.343	ug/L	86
27) 1,2-Dichloroethane	5.41	62	2579	0.313	ug/L #	78
29) 1,1,1-Trichloroethane	4.91	97	3181	0.318	ug/L	93
30) Cyclohexane	5.00	56	3621	0.308	ug/L	99
31) Carbon tetrachloride	5.13	117	2485	0.290	ug/L	93
33) Benzene	5.39	78	7936	0.324	ug/L	100
34) Trichloroethene	6.19	95	2155	0.338	ug/L	91
35) Methylcyclohexane	6.41	83	3435	0.316	ug/L	96
37) 1,2-Dichloropropane	6.45	63	2149m	0.308	ug/L	
38) Bromodichloromethane	6.76	83	2558	0.313	ug/L	86
39) cis-1,3-Dichloropropene	7.27	75	3028	0.302	ug/L	94
40) 4-Methyl-2-pentanone	7.47	43	14839	3.007	ug/L #	92
42) Toluene	7.64	91	8001	0.312	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	2437	0.284	ug/L	95
45) 1,1,2-Trichloroethane	8.08	97	1201	0.280	ug/L	90
47) Tetrachloroethene	8.23	164	1676	0.342	ug/L	86
48) 2-Hexanone	8.37	43	11181	3.143	ug/L	94
49) Dibromochloromethane	8.48	129	1517	0.292	ug/L	90
50) 1,2-Dibromoethane	8.59	107	1259	0.306	ug/L #	97
51) Chlorobenzene	9.12	112	5222	0.328	ug/L	92
52) Ethylbenzene	9.25	91	9615	0.329	ug/L	97
53) m,p-xylene	9.38	106	3110	0.293	ug/L	79
54) o-xylene	9.78	106	3199	0.307	ug/L	86
55) Styrene	9.80	104	5547	0.318	ug/L	92
56) Isopropylbenzene	10.17	105	8455	0.298	ug/L	96
58) 1,1,2,2-Tetrachloroethane	10.46	83	1719	0.307	ug/L #	86
59) 1,2,3-Trichloropropane	10.49	75	1184m	0.280	ug/L	
61) Bromoform	9.96	173	828	0.294	ug/L #	91
62) 1,3-Dichlorobenzene	11.42	146	4124	0.335	ug/L	94
63) 1,4-Dichlorobenzene	11.51	146	4333	0.352	ug/L	91
65) 1,2-Dichlorobenzene	11.88	146	3885	0.334	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.66	75	216	0.237	ug/L	92
67) 1,3,5-Trichlorobenzene	12.89	180	3073	0.310	ug/L	96
68) 1,2,4-trichlorobenzene	13.51	180	2535	0.301	ug/L	95
69) Naphthalene	13.75	128	3790	0.289	ug/L #	93
70) 1,2,3-Trichlorobenzene	13.99	180	2557m	0.333	ug/L	

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



#2

Dichlorodifluoromethane

Concen: 0.286 ug/L

RT: 1.21 min Scan# 11

Delta R.T. -0.00 min

Lab File: VU027872.D

Acq: 30 Oct 2018 13:55

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 85 Resp: 2355

Ion Ratio Lower Upper

85 100

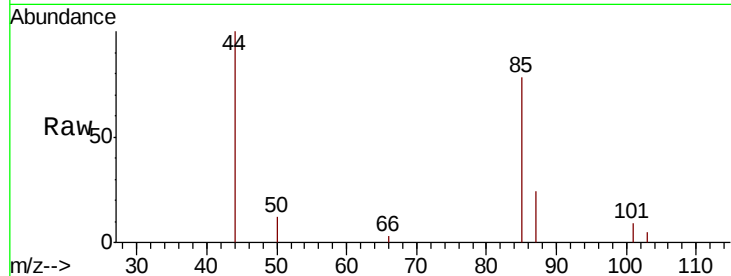
87 28.0 25.2 37.8

Manual Integrations

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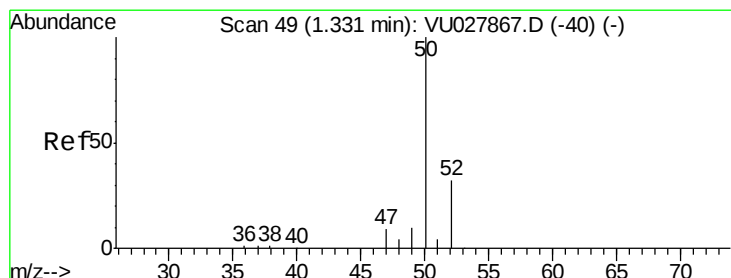
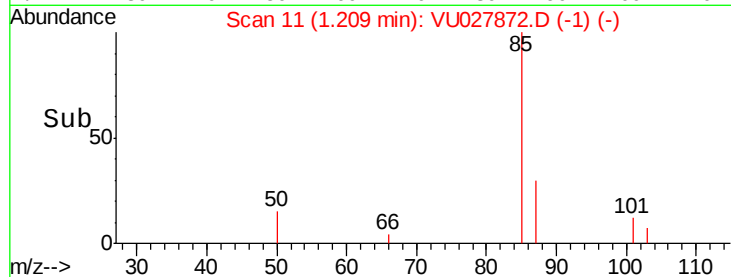
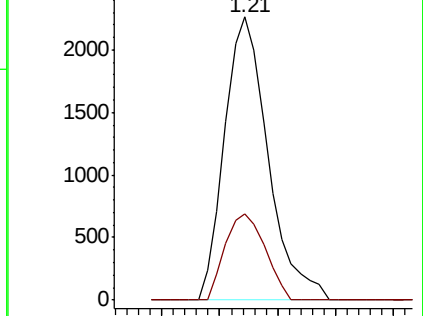
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Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 0.338 ug/L

RT: 1.33 min Scan# 49

Delta R.T. -0.00 min

Lab File: VU027872.D

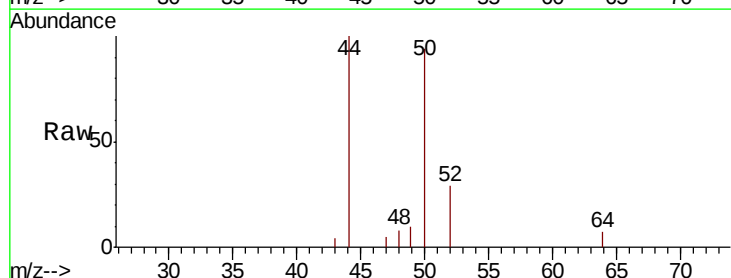
Acq: 30 Oct 2018 13:55

Tgt Ion: 50 Resp: 2763

Ion Ratio Lower Upper

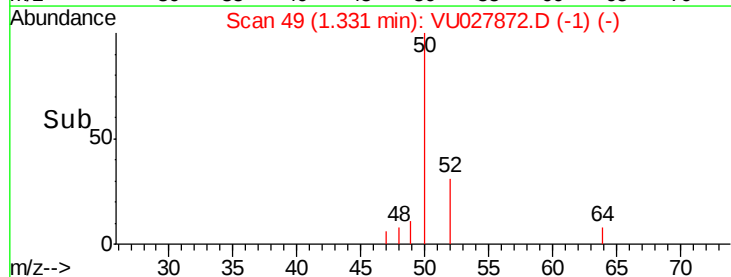
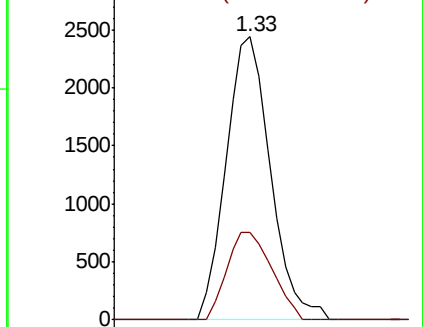
50 100

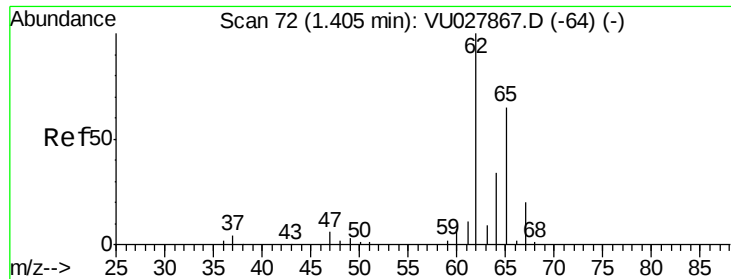
52 30.8 22.3 41.5



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 0.332 ug/L

RT: 1.40 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU027872.D

Acq: 30 Oct 2018 13:55

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 62 Resp: 2698

Ion Ratio Lower Upper

62 100

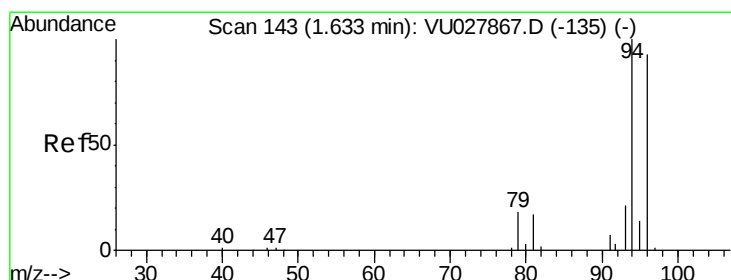
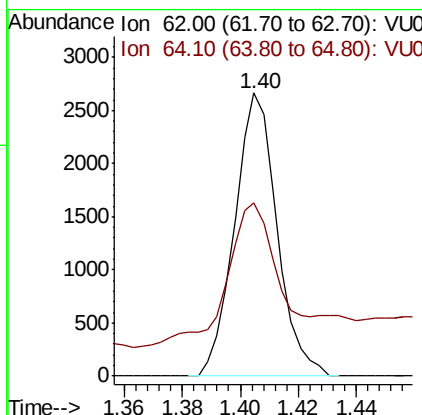
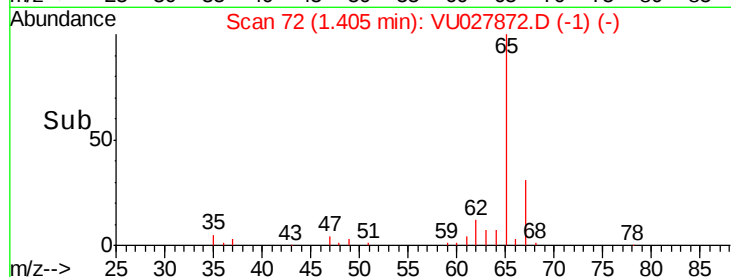
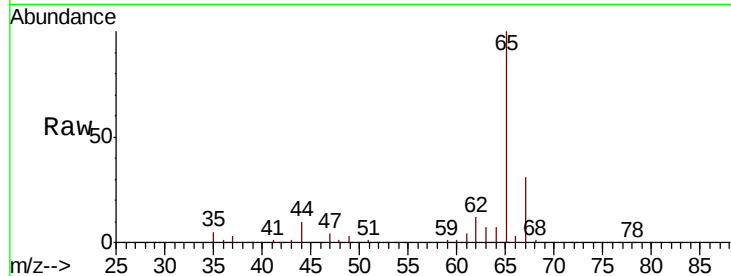
64 61.2 24.0 44.6#

Manual Integrations

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#6

Bromomethane

Concen: 0.370 ug/L

RT: 1.63 min Scan# 143

Delta R.T. -0.00 min

Lab File: VU027872.D

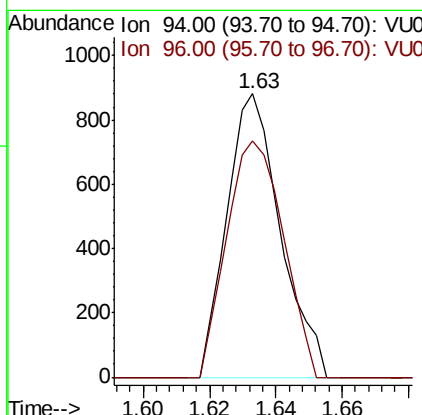
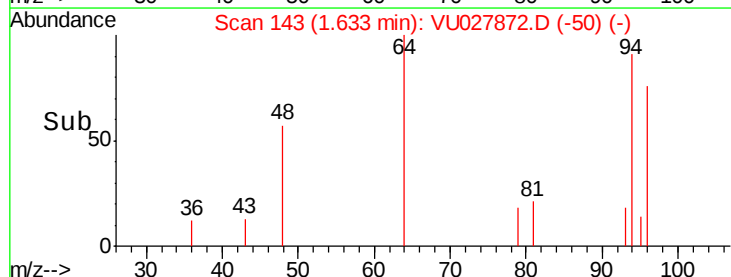
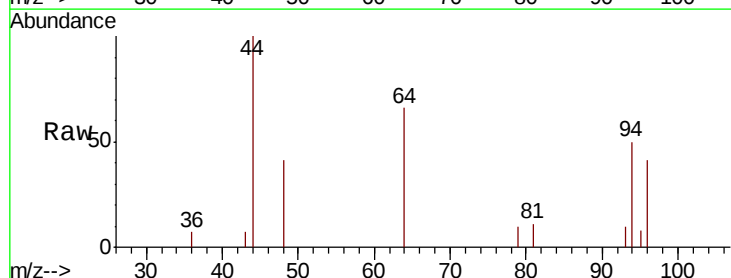
Acq: 30 Oct 2018 13:55

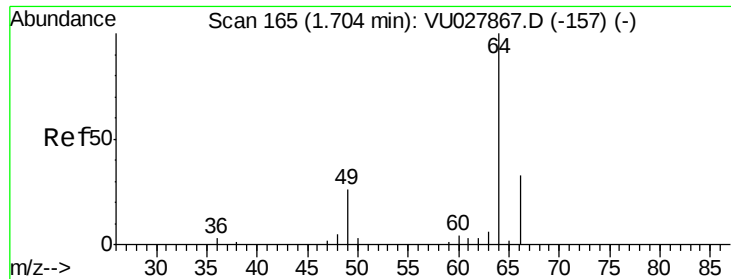
Tgt Ion: 94 Resp: 989

Ion Ratio Lower Upper

94 100

96 83.5 65.0 120.6





#8

Chloroethane

Concen: 0.245 ug/L m

RT: 1.70 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU027872.D

Acq: 30 Oct 2018 13:55

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tot Ion: 64 Resp: 1167

Ion Ratio Lower Upper

64 100

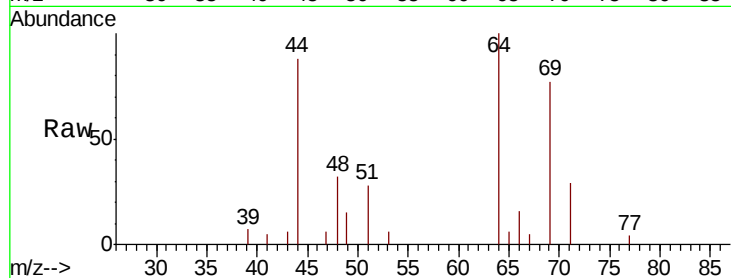
66 16.3 21.8 40.6#

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VU027872.D (-157) (-)

Ion 66.05 (65.75 to 66.75): VU027872.D (-157) (-)

1.70

2500

2000

1500

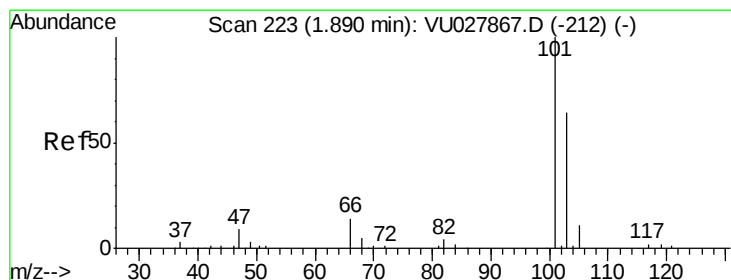
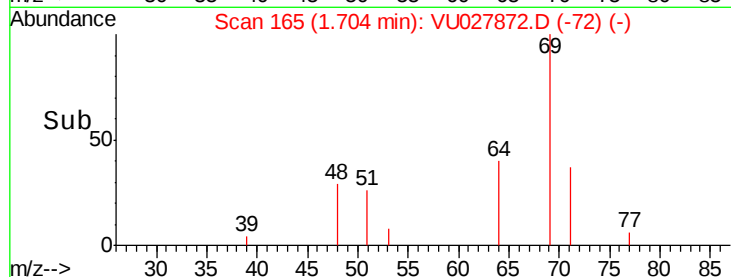
1000

500

0

1.68 1.70 1.72

Time-->



#9

Trichlorofluoromethane

Concen: 0.299 ug/L

RT: 1.89 min Scan# 223

Delta R.T. -0.00 min

Lab File: VU027872.D

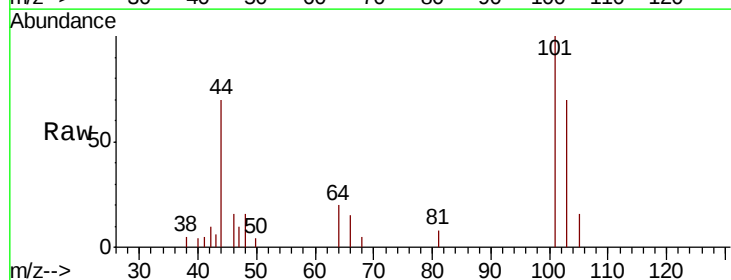
Acq: 30 Oct 2018 13:55

Tgt Ion:101 Resp: 3223

Ion Ratio Lower Upper

101 100

103 68.8 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): VU027872.D (-212) (-)

Ion 103.00 (102.70 to 103.70): VU027872.D (-212) (-)

1.89

2500

2000

1500

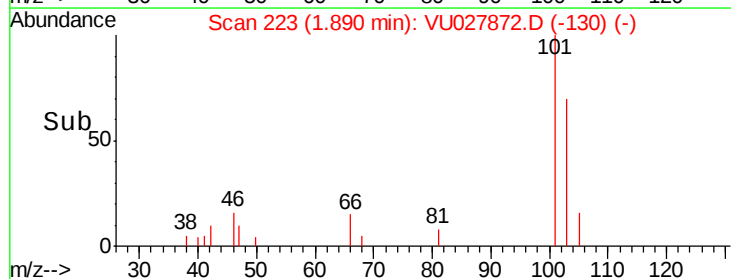
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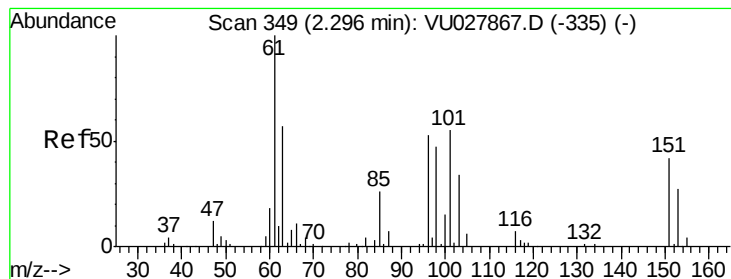
500

0

1.85 1.90

Time-->





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.365 ug/L

RT: 2.29 min Scan# 348

Delta R.T. -0.00 min

Lab File: VU027872.D

Acq: 30 Oct 2018 13:55

Instrument :

MSVOA_U

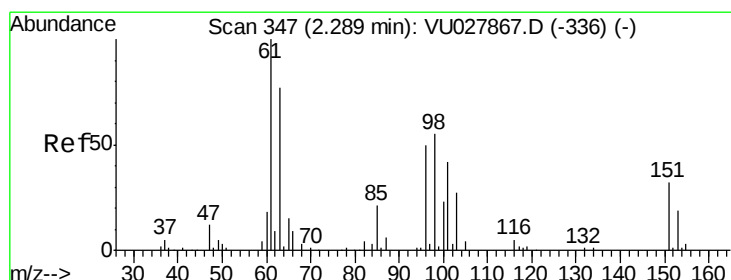
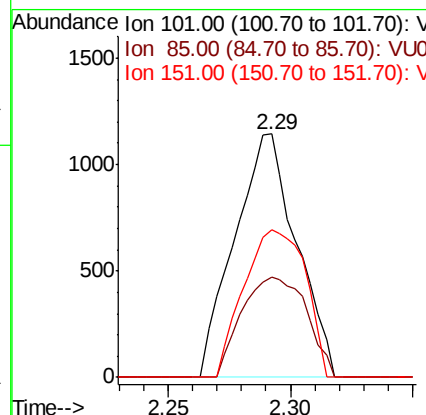
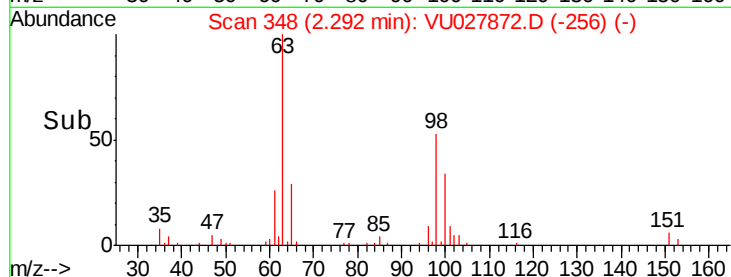
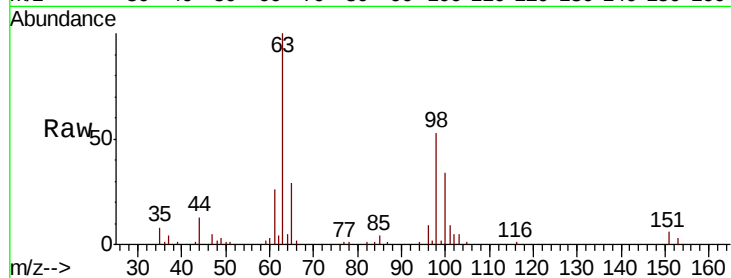
ClientSampleId :

MDL01

Tot Ion:	101	Resp:	2011
Ion Ratio	Lower	Upper	
101	100		
85	43.3	37.1	55.7
151	60.8	59.9	89.9

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 0.361 ug/L

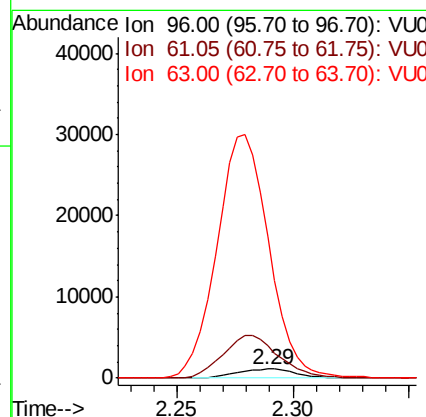
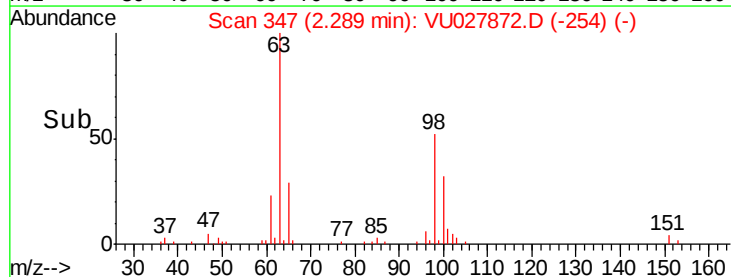
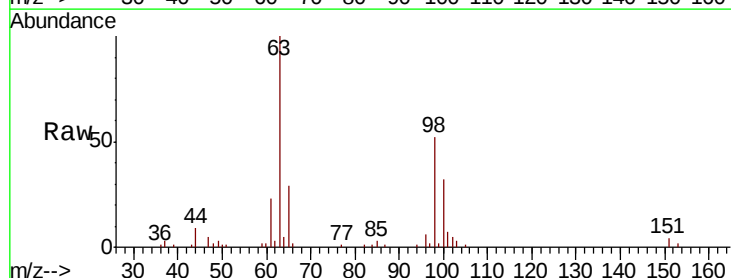
RT: 2.29 min Scan# 347

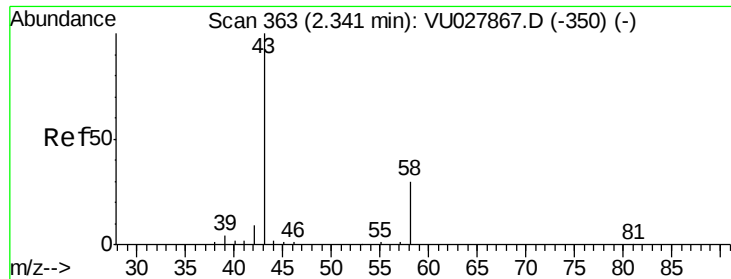
Delta R.T. -0.00 min

Lab File: VU027872.D

Acq: 30 Oct 2018 13:55

Tgt Ion:	96	Resp:	1875
Ion Ratio	Lower	Upper	
96	100		
61	352.7	141.1	262.1#
63	1557.2	113.0	209.9#





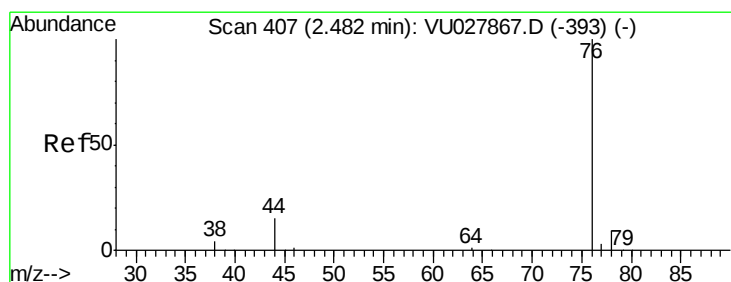
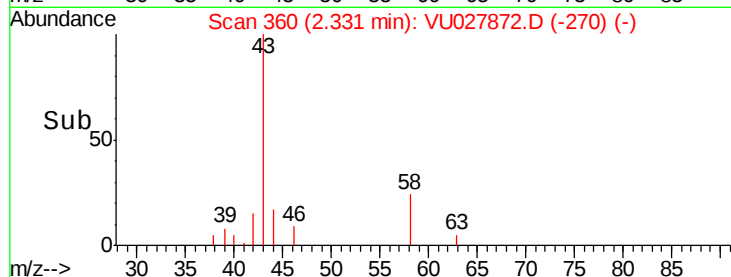
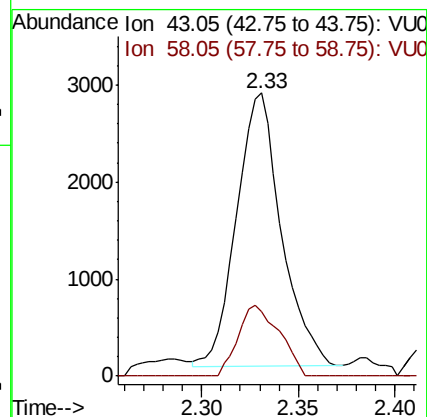
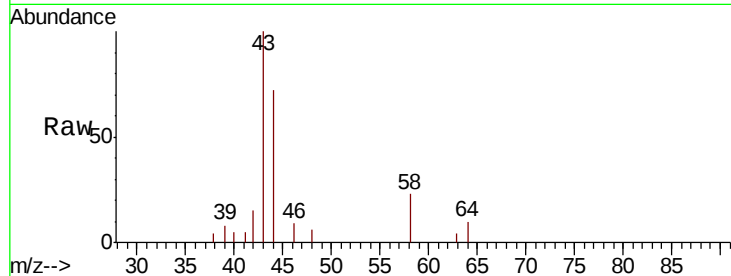
#13
Acetone
Concen: 3.691 ug/L
RT: 2.33 min Scan# 360
Delta R.T. -0.01 min
Lab File: VU027872.D
Acq: 30 Oct 2018 13:55

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion: 43 Resp: 4535
Ion Ratio Lower Upper
43 100
58 23.7 0.0 61.4

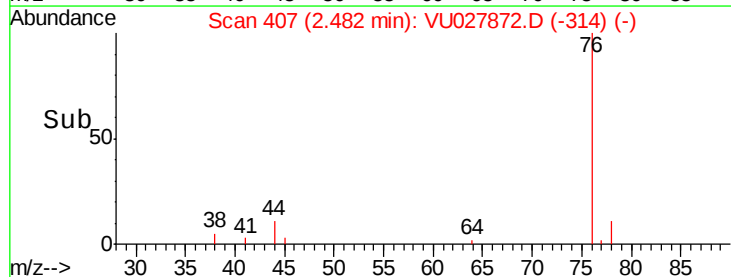
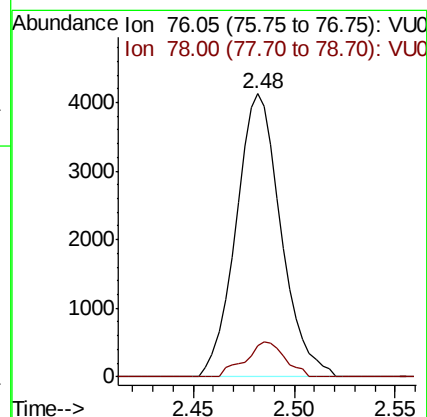
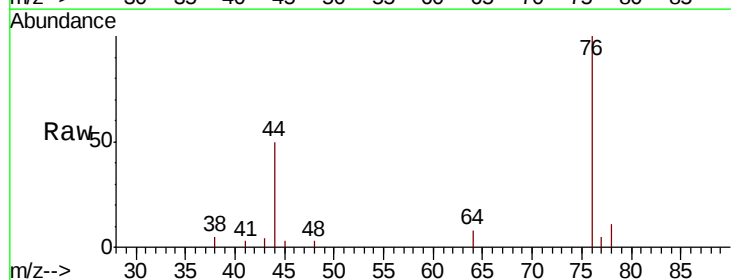
Manual Integrations
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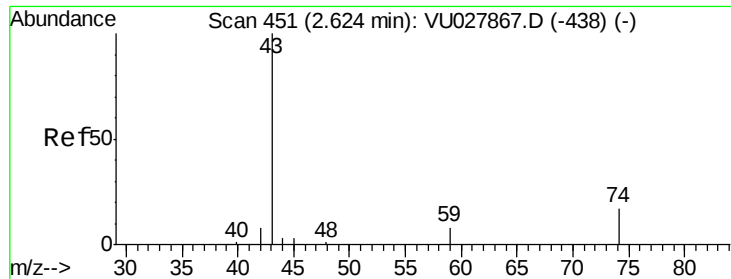
MMDadoda
11/1/2018 11:15:19 AM



#14
Carbon disulfide
Concen: 0.346 ug/L
RT: 2.48 min Scan# 407
Delta R.T. -0.00 min
Lab File: VU027872.D
Acq: 30 Oct 2018 13:55

Tgt Ion: 76 Resp: 6421
Ion Ratio Lower Upper
76 100
78 11.1 7.5 11.3





#15

Methvl Acetate

Concen: 0.460 ug/L

RT: 2.63 min Scan# 452

Delta R.T. 0.00 min

Lab File: VU027872.D

Acq: 30 Oct 2018 13:55

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tot Ion: 43 Resp: 1513

Ion Ratio Lower Upper

43 100

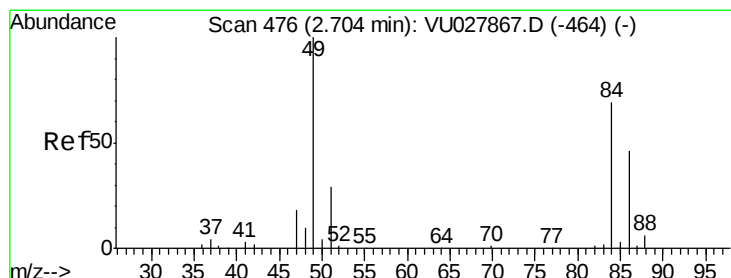
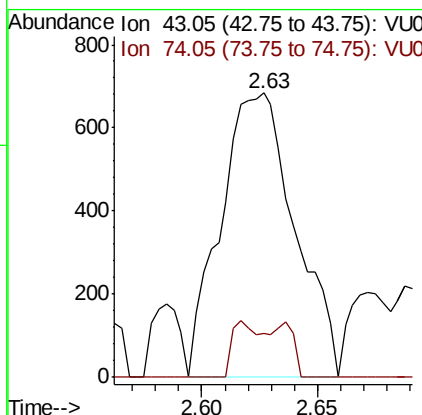
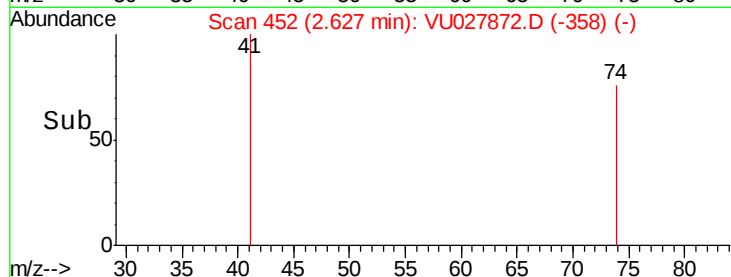
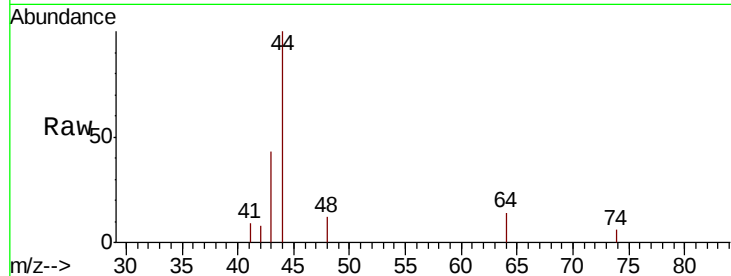
74 4.5 14.9 22.3#

Manual Integrations

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#16

Methylene chloride

Concen: 0.383 ug/L

RT: 2.70 min Scan# 476

Delta R.T. -0.00 min

Lab File: VU027872.D

Acq: 30 Oct 2018 13:55

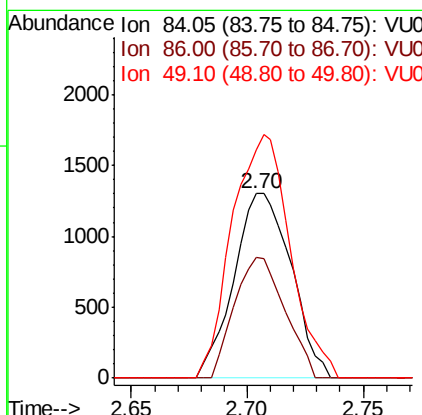
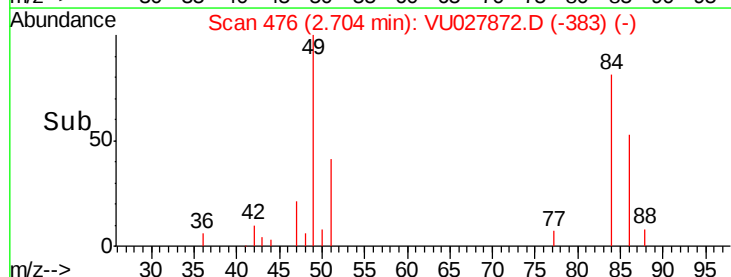
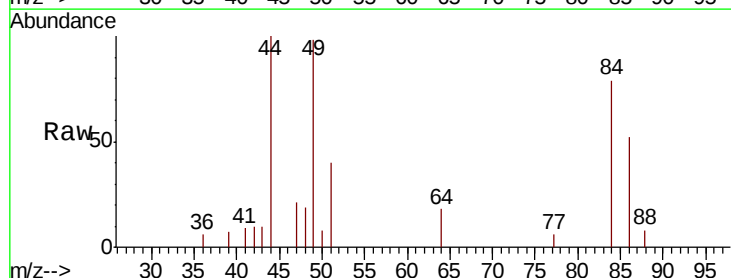
Tgt Ion: 84 Resp: 2234

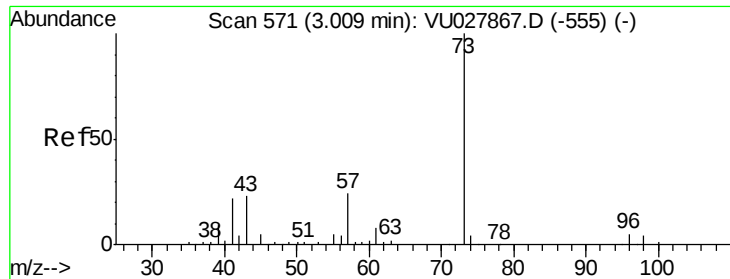
Ion Ratio Lower Upper

84 100

86 65.5 46.7 86.7

49 123.8 101.3 188.1





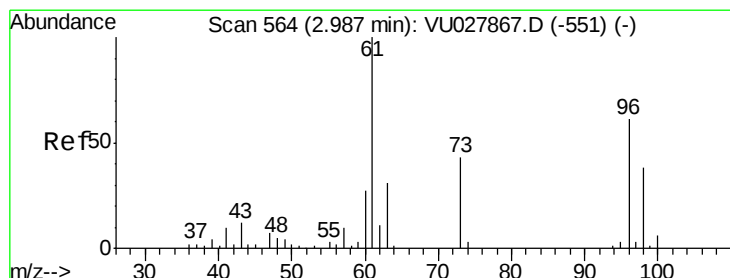
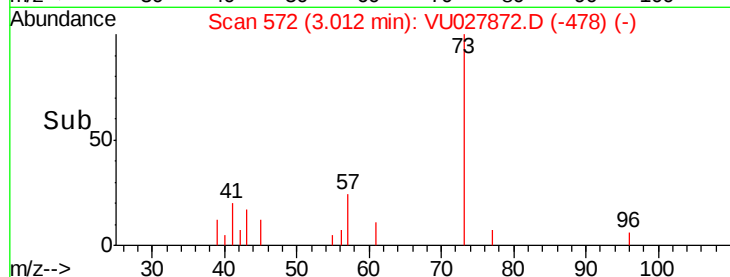
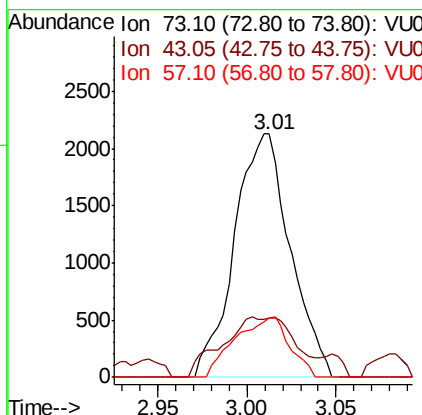
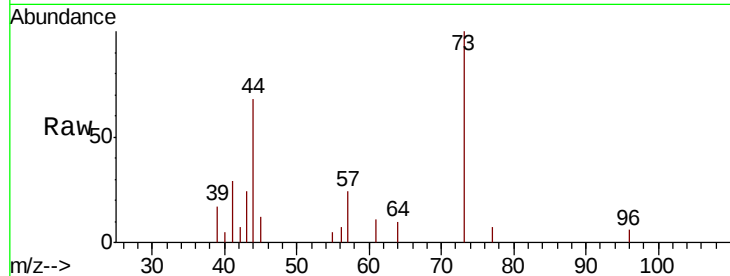
#17
Methvl tert-butvl Ether
Concen: 0.299 ug/L
RT: 3.01 min Scan# 572
Delta R.T. 0.00 min
Lab File: VU027872.D
Acq: 30 Oct 2018 13:55

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion	Ratio	Lower	Upper
73	100		
43	16.6	18.7	28.1#
57	23.9	18.7	28.1

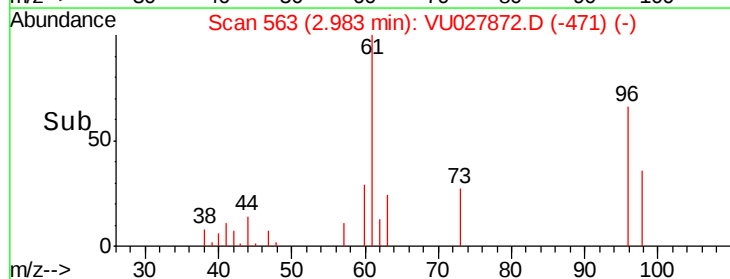
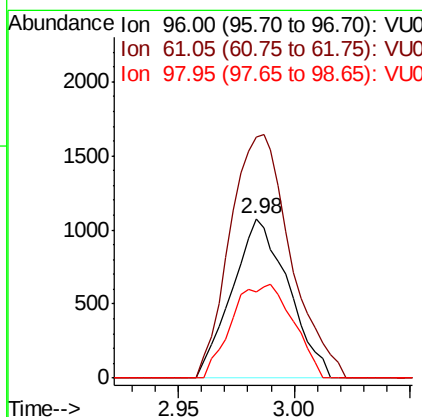
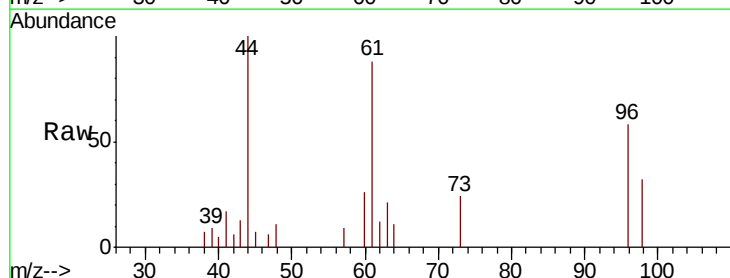
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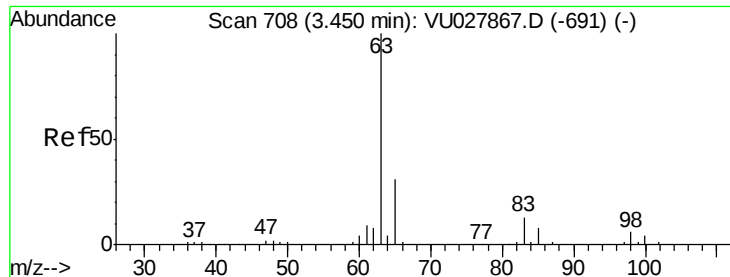
MMDadoda
11/1/2018 11:15:19 AM



#18
trans-1,2-Dichloroethene
Concen: 0.328 ug/L
RT: 2.98 min Scan# 563
Delta R.T. -0.00 min
Lab File: VU027872.D
Acq: 30 Oct 2018 13:55

Tgt Ion	Ratio	Lower	Upper
96	100		
61	150.6	115.2	214.0
98	54.3	44.0	81.8





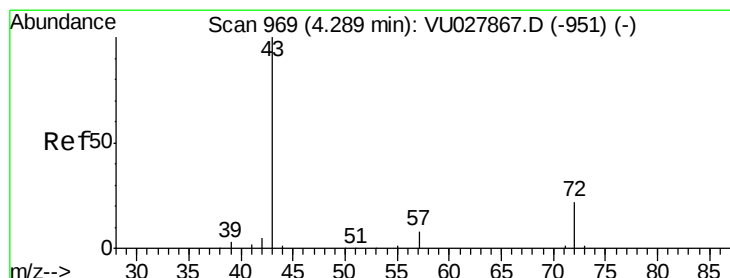
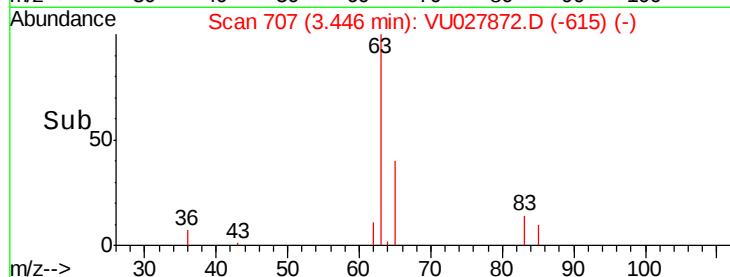
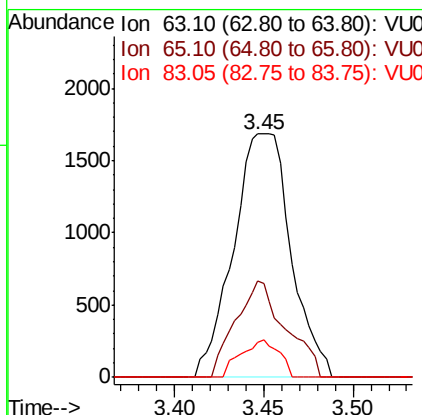
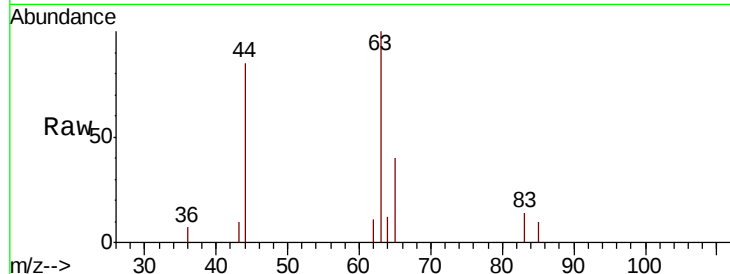
#19
 1,1-Dichloroethane
 Concen: 0.326 ug/L
 RT: 3.45 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: VU027872.D
 Acq: 30 Oct 2018 13:55

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
63	100		
65	39.5	21.8	40.4
83	14.4	9.4	17.4

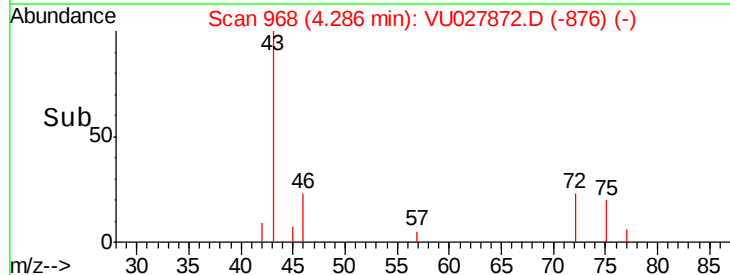
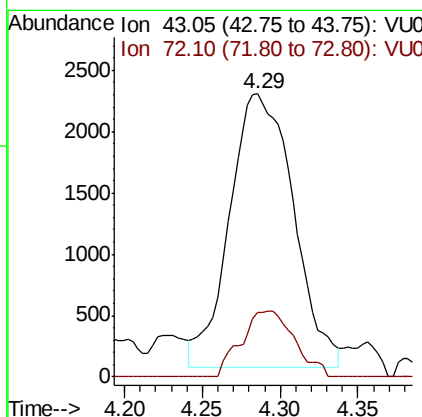
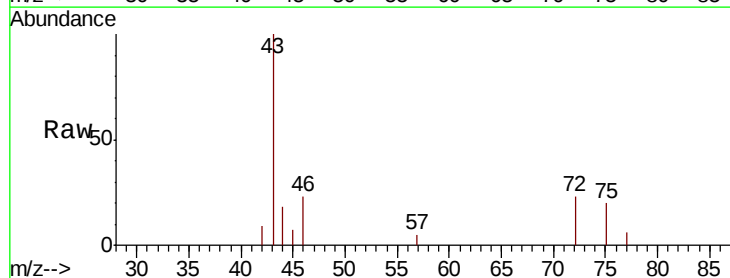
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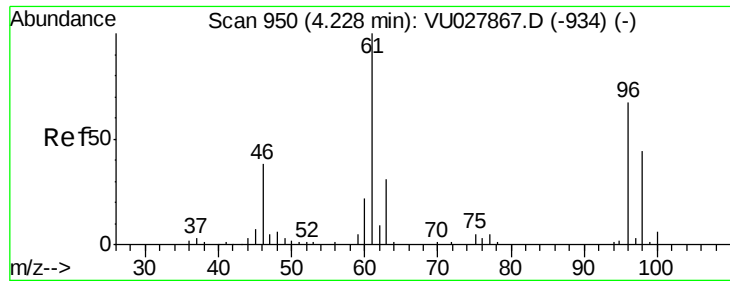
MMDadoda
 11/1/2018 11:15:19 AM



#21
 2-Butanone
 Concen: 3.007 ug/L m
 RT: 4.29 min Scan# 968
 Delta R.T. -0.00 min
 Lab File: VU027872.D
 Acq: 30 Oct 2018 13:55

Tgt Ion	Ratio	Lower	Upper
43	100		
72	19.8	10.9	32.9





#22

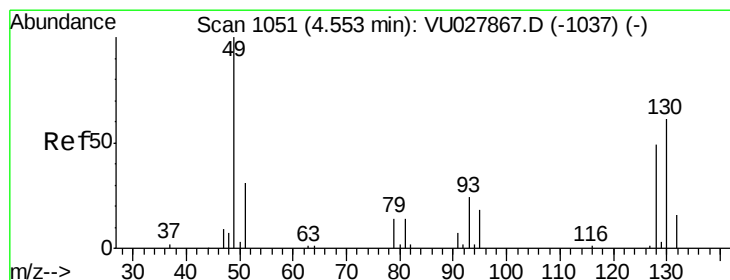
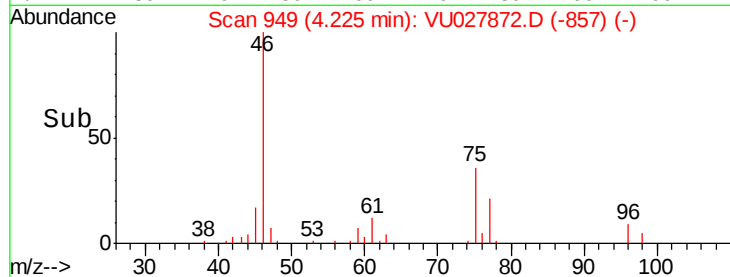
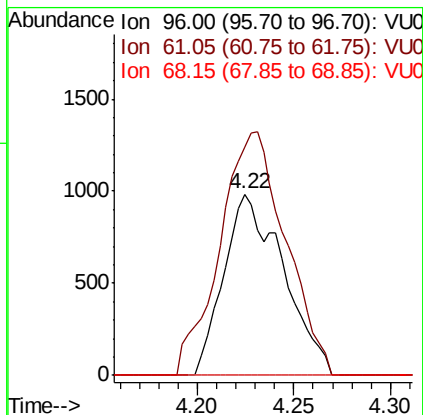
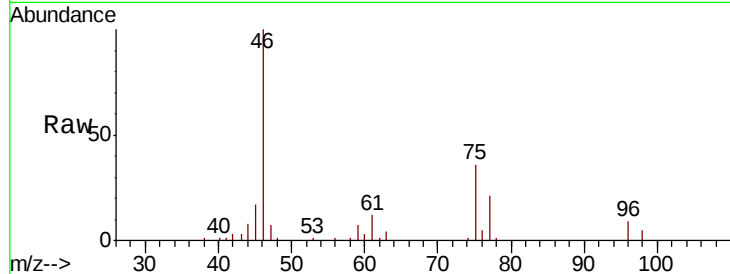
cis-1,2-Dichloroethene
 Concen: 0.330 ug/L
 RT: 4.22 min Scan# 949
 Delta R.T. -0.00 min
 Lab File: VU027872.D
 Acq: 30 Oct 2018 13:55

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
96	100		
61	125.6	104.0	193.2
68	0.0	0.0	0.0

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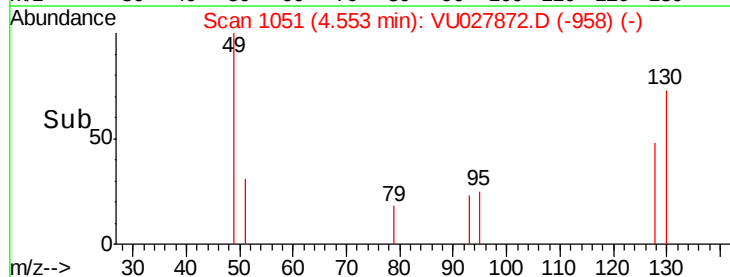
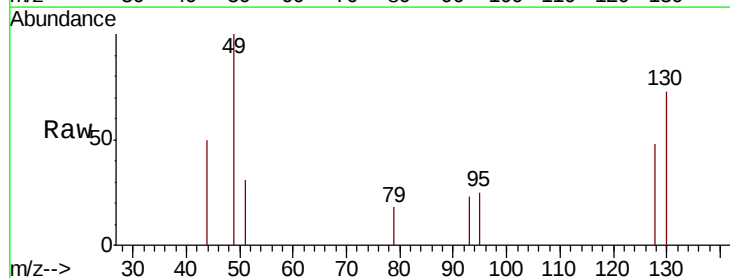
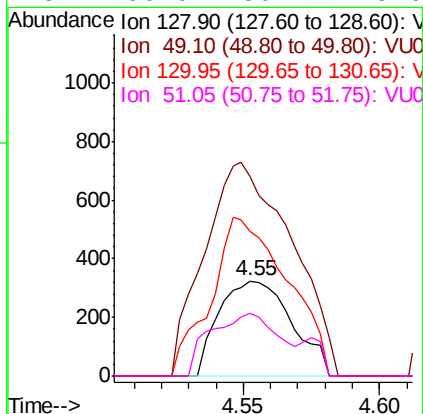
MMDadoda
 11/1/2018 11:15:19 AM

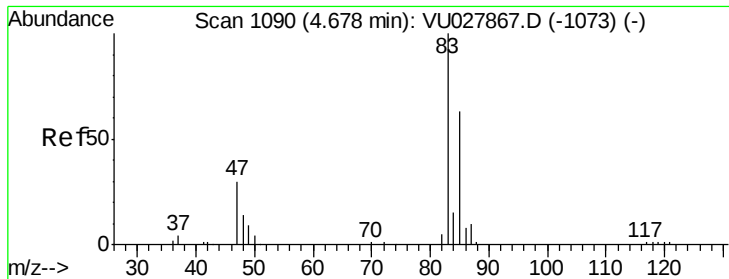


#23

Bromochloromethane
 Concen: 0.227 ug/L
 RT: 4.55 min Scan# 1051
 Delta R.T. -0.00 min
 Lab File: VU027872.D
 Acq: 30 Oct 2018 13:55

Tgt Ion	Ratio	Lower	Upper
128	100		
49	210.2	142.0	263.8
130	152.8	86.1	159.9
51	66.0	50.4	75.6





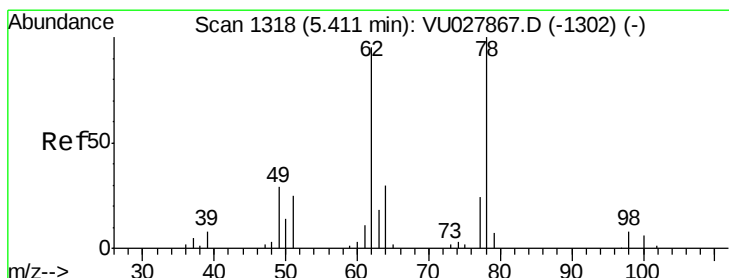
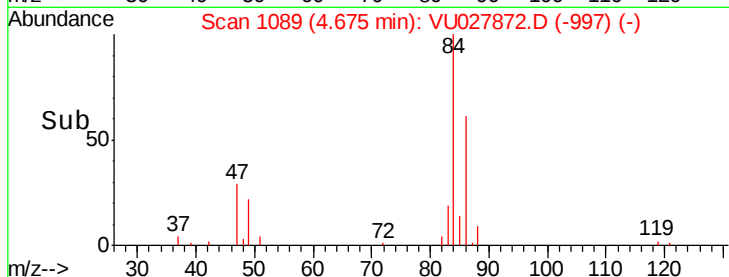
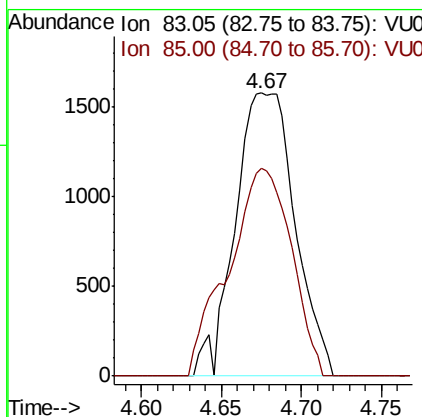
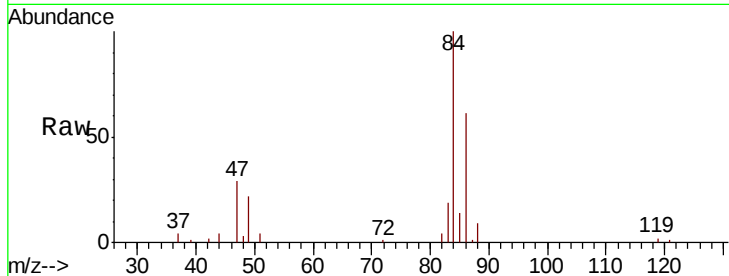
#25
Chloroform
Concen: 0.343 ug/L
RT: 4.67 min Scan# 1089
Delta R.T. -0.00 min
Lab File: VU027872.D
Acq: 30 Oct 2018 13:55

Instrument :
MSVOA_U
ClientSampled :
MDL01

Tot Ion: 83 Resp: 4047
Ion Ratio Lower Upper
83 100
85 73.4 44.0 81.8

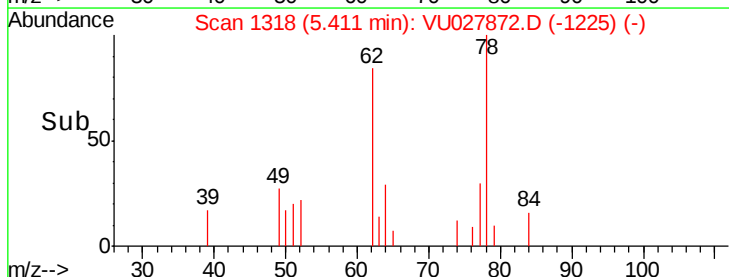
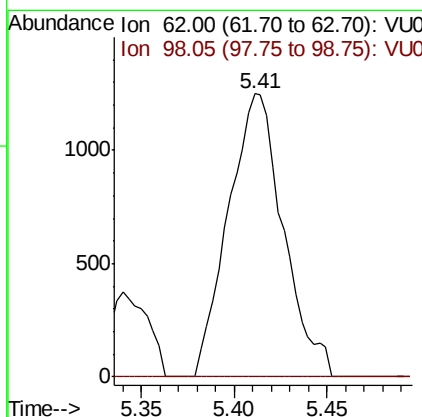
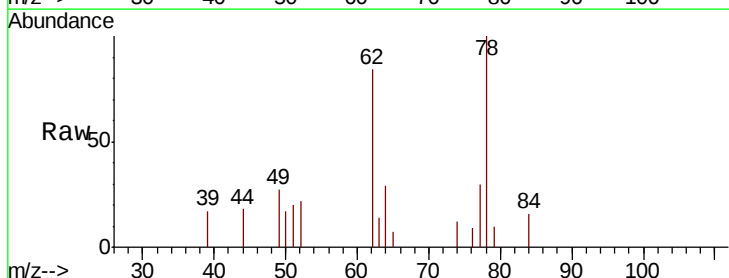
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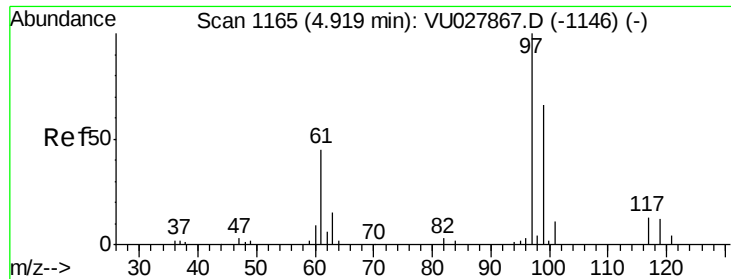
MMDadoda
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#27
1,2-Dichloroethane
Concen: 0.313 ug/L
RT: 5.41 min Scan# 1318
Delta R.T. -0.00 min
Lab File: VU027872.D
Acq: 30 Oct 2018 13:55

Tgt Ion: 62 Resp: 2579
Ion Ratio Lower Upper
62 100
98 0.0 6.3 9.5#





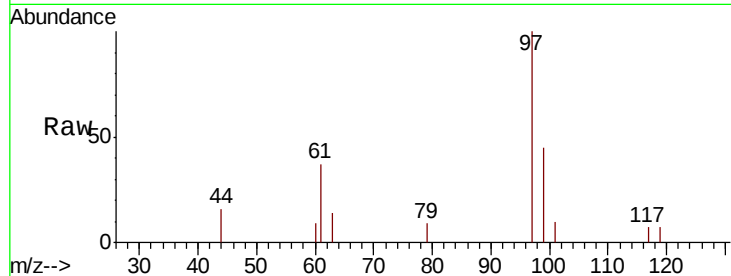
#29
 1,1,1-Trichloroethane
 Concen: 0.318 ug/L
 RT: 4.91 min Scan# 1163
 Delta R.T. -0.01 min
 Lab File: VU027872.D
 Acq: 30 Oct 2018 13:55

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
97	100		
99	57.0	50.6	76.0
61	41.6	35.8	53.6

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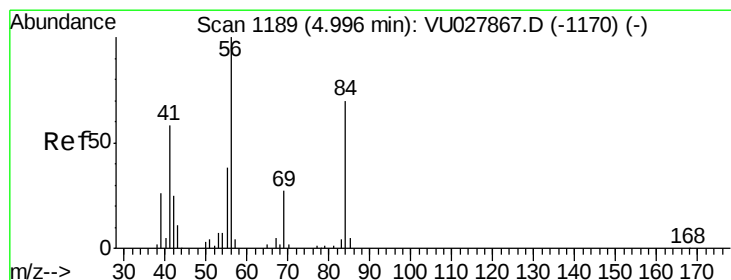
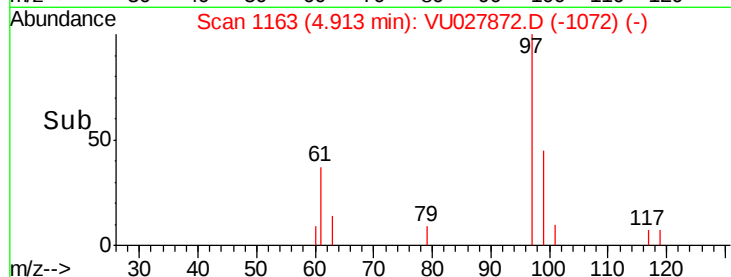
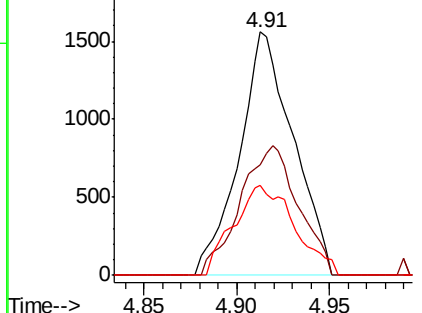


Abundance

Ion 96.95 (96.65 to 97.65): VU0

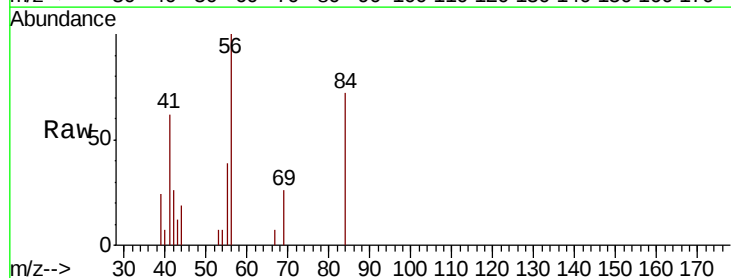
Ion 99.05 (98.75 to 99.75): VU0

Ion 61.05 (60.75 to 61.75): VU0



#30
 Cyclohexane
 Concen: 0.308 ug/L
 RT: 5.00 min Scan# 1189
 Delta R.T. -0.00 min
 Lab File: VU027872.D
 Acq: 30 Oct 2018 13:55

Tgt Ion	Ratio	Lower	Upper
56	100		
69	27.0	22.7	34.1
84	72.2	58.1	87.1

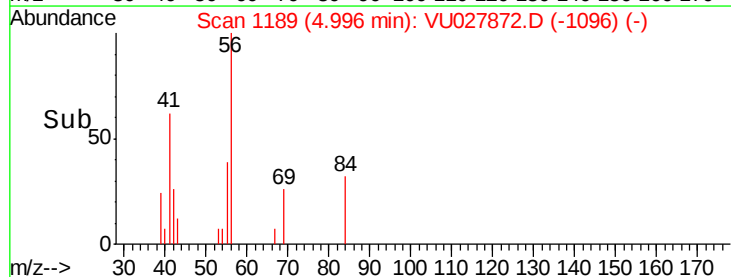
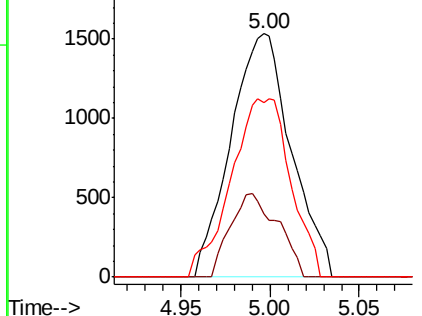


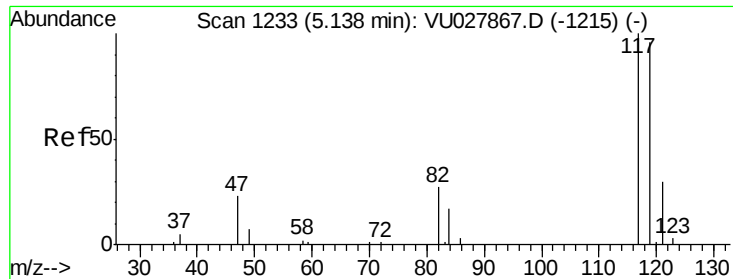
Abundance

Ion 56.10 (55.80 to 56.80): VU0

Ion 69.15 (68.85 to 69.85): VU0

Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 0.290 ug/L

RT: 5.13 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VU027872.D

Acq: 30 Oct 2018 13:55

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tot Ion:117 Resp: 2485

Ion Ratio Lower Upper

117 100

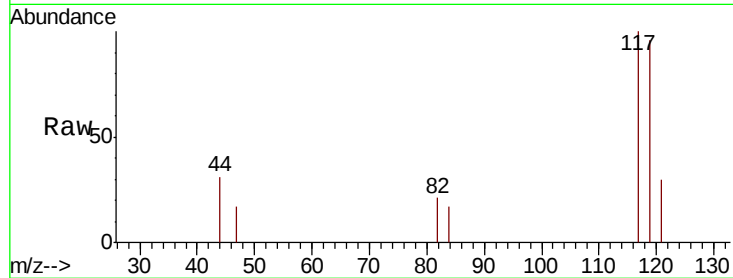
119 103.7 77.1 115.7

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Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

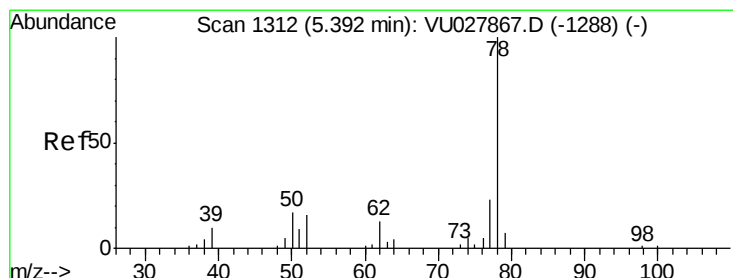
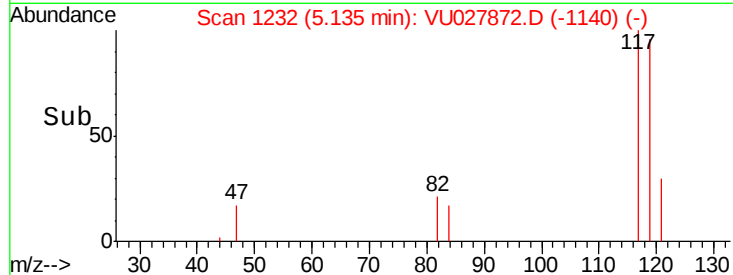
5.13

1000

500

0

Time-->



#33

Benzene

Concen: 0.324 ug/L

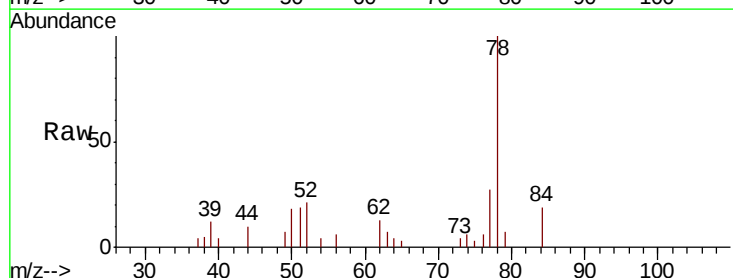
RT: 5.39 min Scan# 1312

Delta R.T. -0.00 min

Lab File: VU027872.D

Acq: 30 Oct 2018 13:55

Tgt Ion: 78 Resp: 7936



Abundance Ion 78.10 (77.80 to 78.80): VU0

5.39

4000

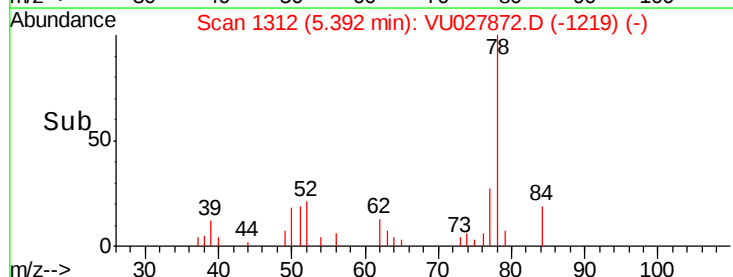
3000

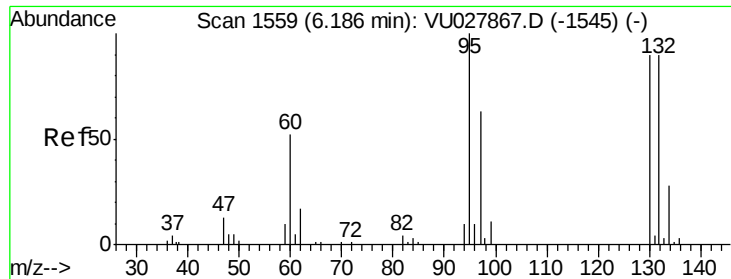
2000

1000

0

Time-->





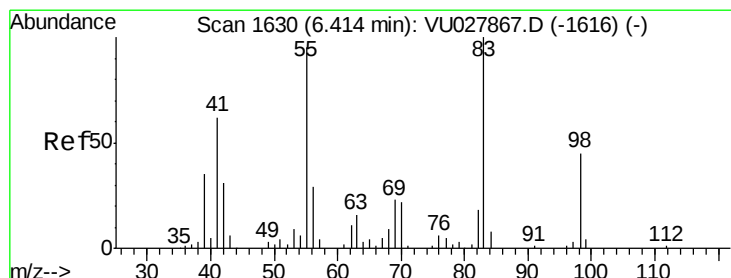
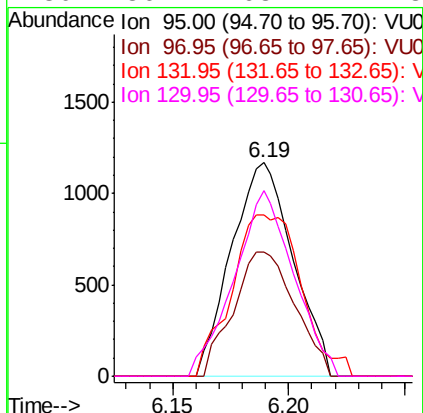
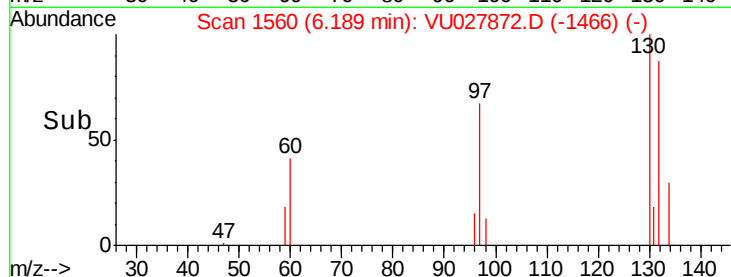
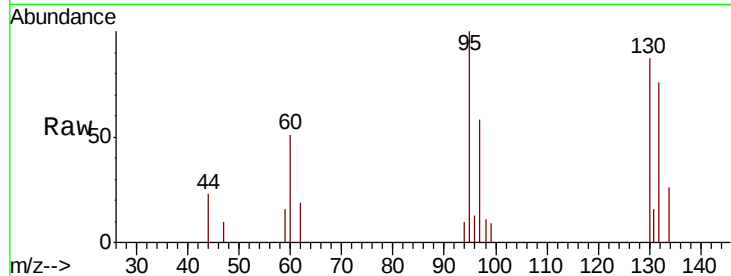
#34
 Trichloroethene
 Concen: 0.338 ug/L
 RT: 6.19 min Scan# 1560
 Delta R.T. 0.00 min
 Lab File: VU027872.D
 Acq: 30 Oct 2018 13:55

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Tot Ion:	95	Resp:	2155
Ion	Ratio	Lower	Upper
95	100		
97	58.0	44.0	81.6
132	75.5	63.3	117.5
130	86.7	63.1	117.3

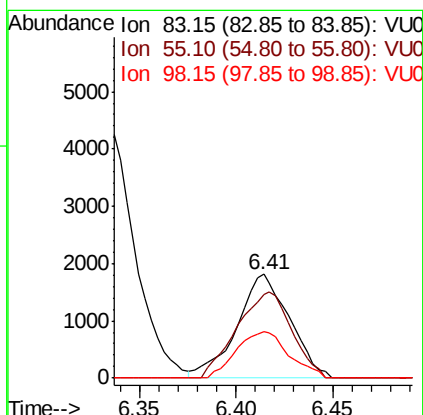
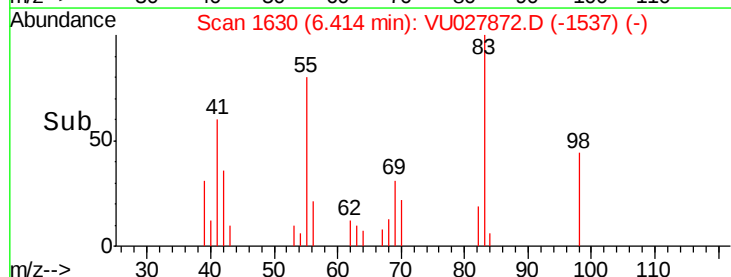
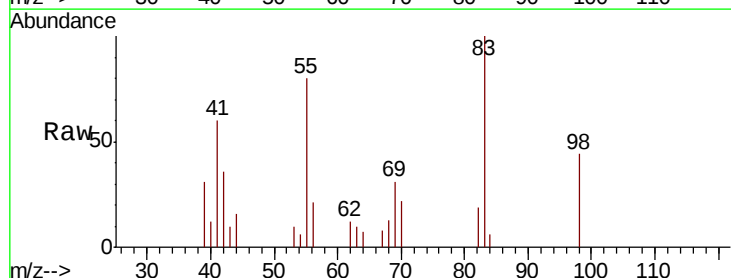
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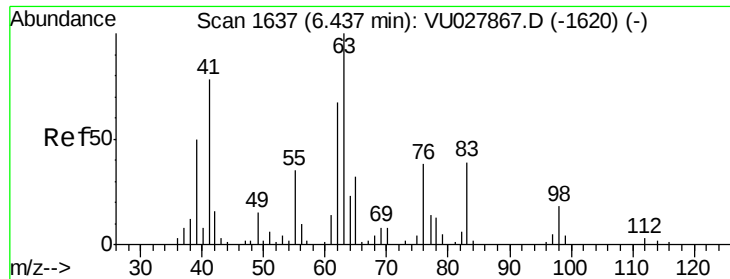
MMDadoda
 11/1/2018 11:15:19 AM



#35
 Methylcyclohexane
 Concen: 0.316 ug/L
 RT: 6.41 min Scan# 1630
 Delta R.T. -0.00 min
 Lab File: VU027872.D
 Acq: 30 Oct 2018 13:55

Tgt Ion:	83	Resp:	3435
Ion	Ratio	Lower	Upper
83	100		
55	86.1	73.4	110.0
98	44.1	35.3	52.9





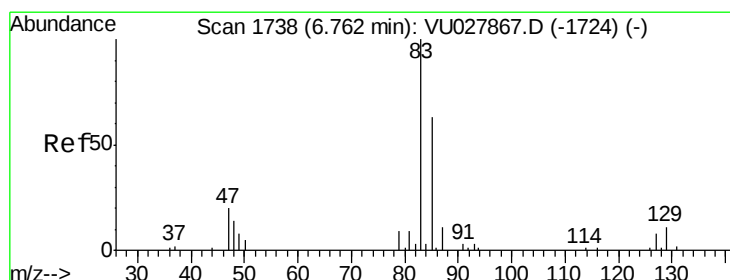
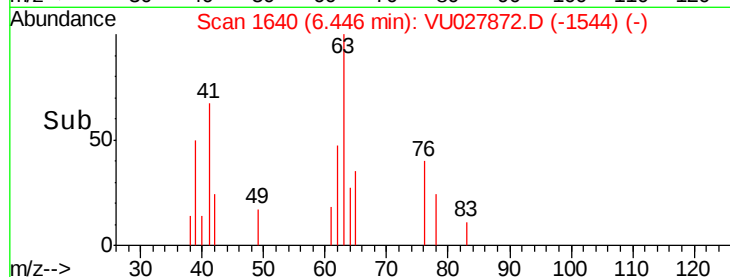
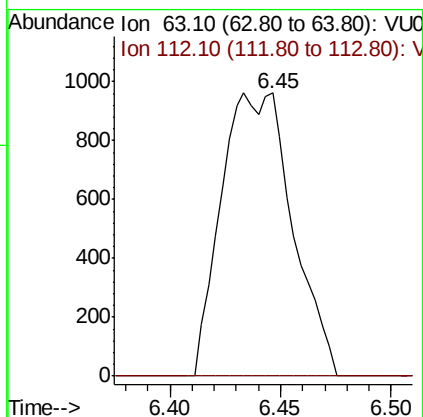
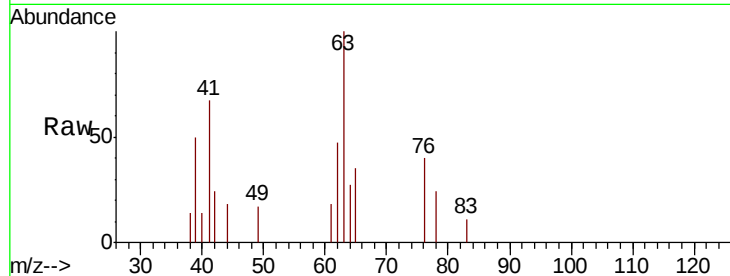
#37
 1,2-Dichloropropane
 Concen: 0.308 ug/L m
 RT: 6.45 min Scan# 1640
 Delta R.T. 0.01 min
 Lab File: VU027872.D
 Acq: 30 Oct 2018 13:55

Instrument :
 MSVOA_U
 ClientSampled :
 MDL01

Tot Ion: 63 Resp: 2149
 Ion Ratio Lower Upper
 63 100
 112 0.0 2.6 3.8#

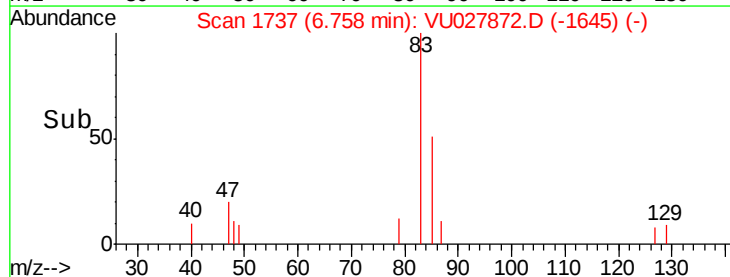
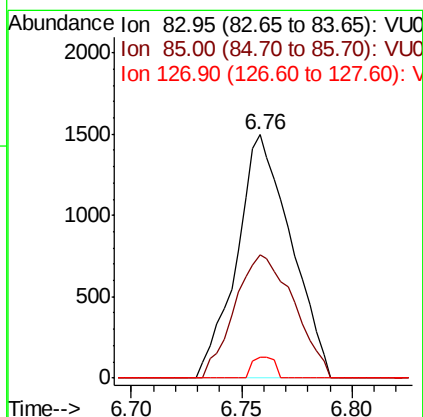
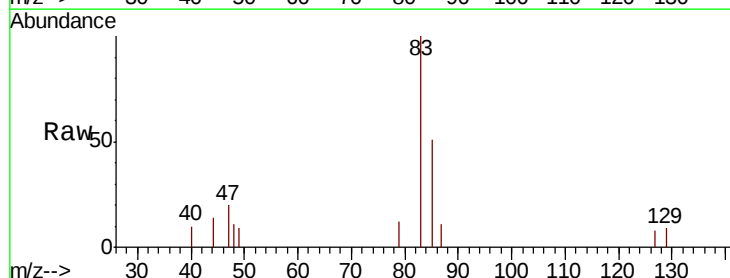
Manual Integrations
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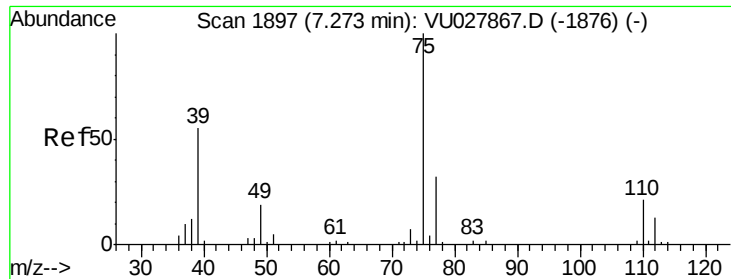
MMDadoda
 11/1/2018 11:15:19 AM



#38
 Bromodichloromethane
 Concen: 0.313 ug/L
 RT: 6.76 min Scan# 1737
 Delta R.T. -0.00 min
 Lab File: VU027872.D
 Acq: 30 Oct 2018 13:55

Tgt Ion: 83 Resp: 2558
 Ion Ratio Lower Upper
 83 100
 85 50.8 43.8 81.4
 127 8.4 6.4 9.6





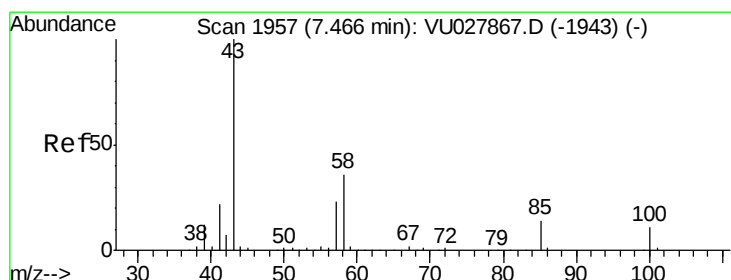
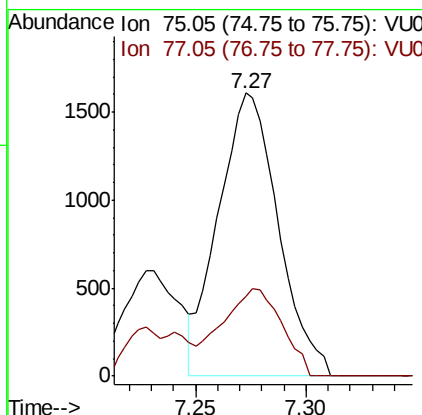
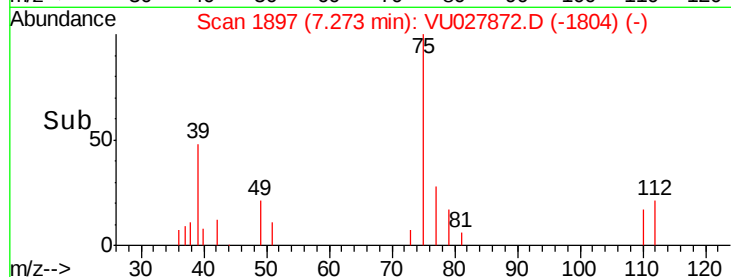
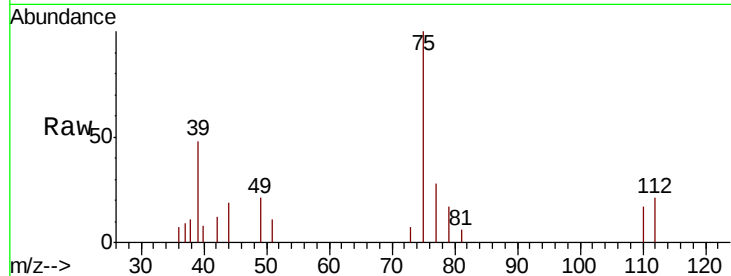
#39
 cis-1,3-Dichloropropene
 Concen: 0.302 ug/L
 RT: 7.27 min Scan# 1897
 Delta R.T. -0.00 min
 Lab File: VU027872.D
 Acq: 30 Oct 2018 13:55

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Tot Ion: 75 Resp: 3028
 Ion Ratio Lower Upper
 75 100
 77 28.4 22.2 41.2

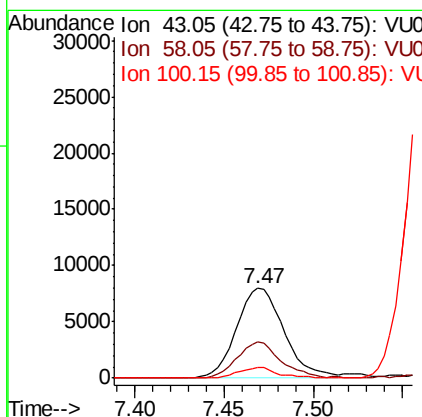
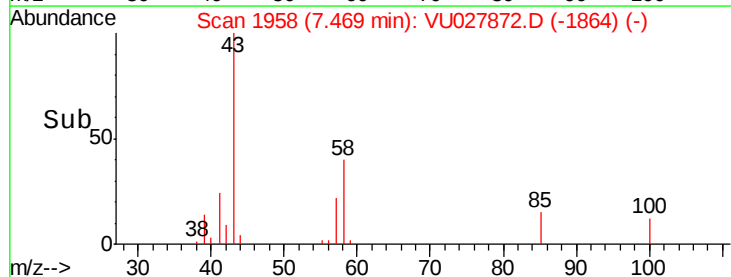
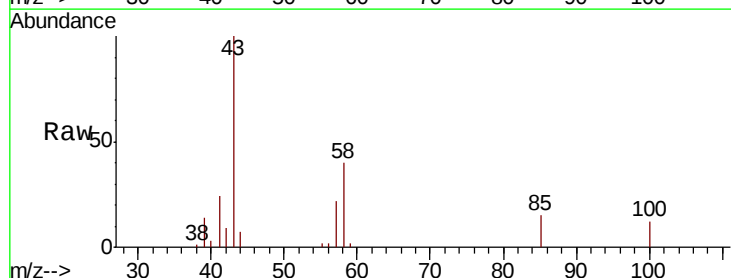
Manual Integrations
 APPROVED

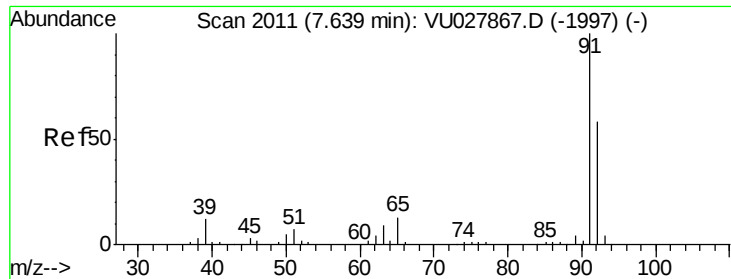
MMDadoda
 11/1/2018 11:15:19 AM



#40
 4-Methyl-2-pentanone
 Concen: 3.007 ug/L
 RT: 7.47 min Scan# 1958
 Delta R.T. 0.00 min
 Lab File: VU027872.D
 Acq: 30 Oct 2018 13:55

Tgt Ion: 43 Resp: 14839
 Ion Ratio Lower Upper
 43 100
 58 36.8 28.5 42.7
 100 0.0 8.8 13.2#





#42

Toluene

Concen: 0.312 ug/L

RT: 7.64 min Scan# 2011

Delta R.T. -0.00 min

Lab File: VU027872.D

Acq: 30 Oct 2018 13:55

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tot Ion: 91 Resp: 8001

Ion Ratio Lower Upper

91 100

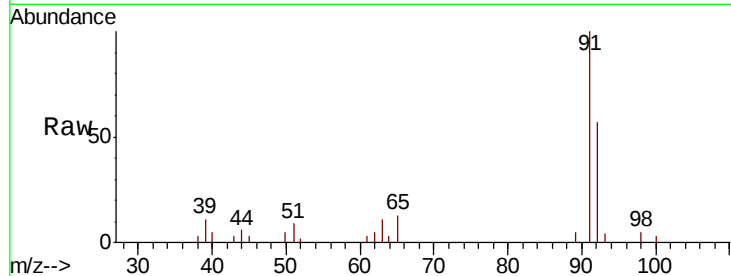
92 57.3 40.3 74.9

Manual Integrations

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MMDadoda

11/1/2018 11:15:19 AM



Abundance Ion 91.15 (90.85 to 91.85): VU027867.D (-1997) (-)

Ion 92.15 (91.85 to 92.85): VU027867.D (-1997) (-)

7.64

4000

3000

2000

1000

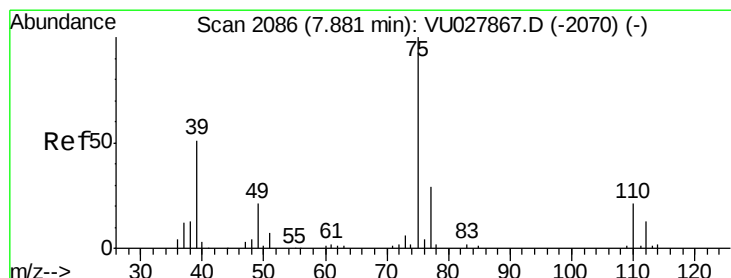
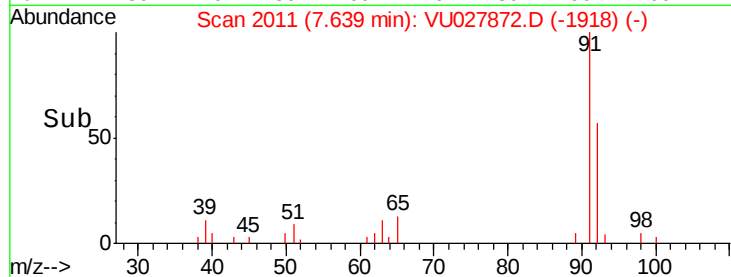
0

7.60

7.65

7.70

Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.284 ug/L

RT: 7.88 min Scan# 2087

Delta R.T. 0.00 min

Lab File: VU027872.D

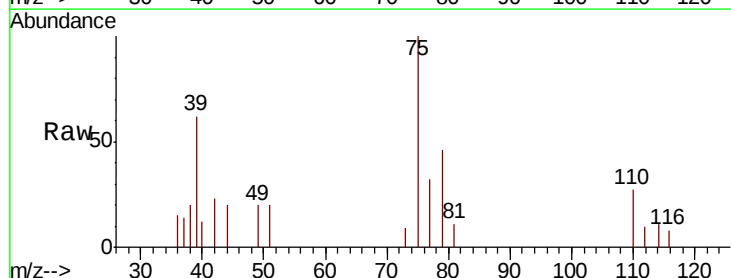
Acq: 30 Oct 2018 13:55

Tgt Ion: 75 Resp: 2437

Ion Ratio Lower Upper

75 100

77 32.2 20.5 38.1



Abundance Ion 75.05 (74.75 to 75.75): VU027867.D (-2070) (-)

Ion 77.05 (76.75 to 77.75): VU027867.D (-2070) (-)

7.88

1500

1000

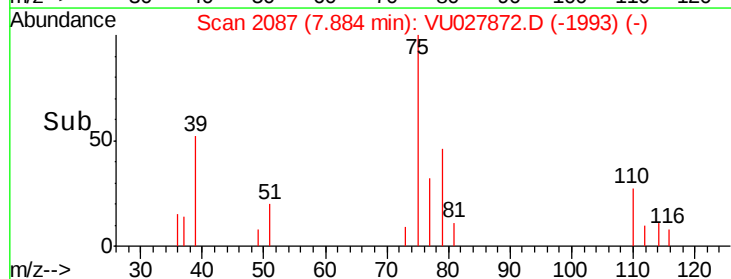
500

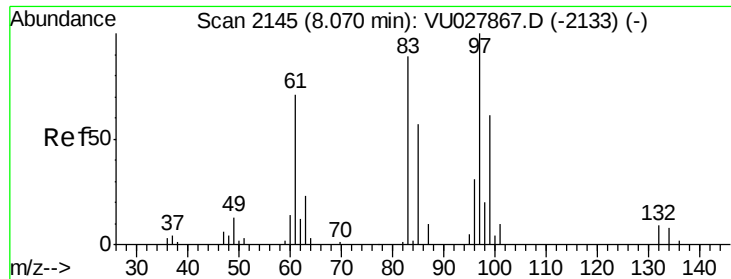
0

7.85

7.90

Time-->





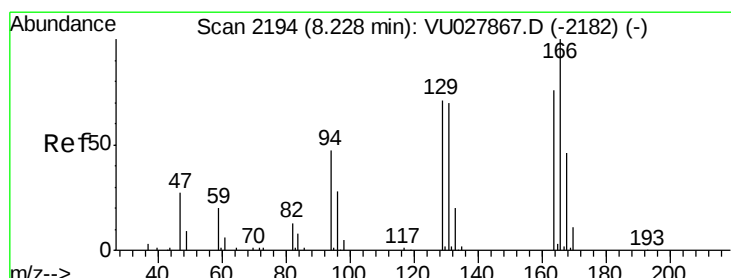
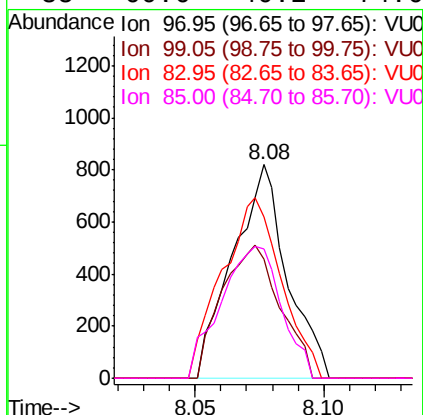
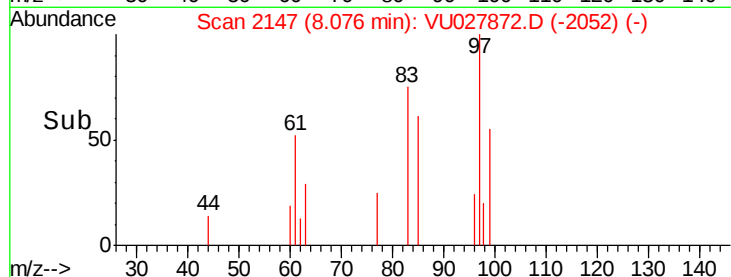
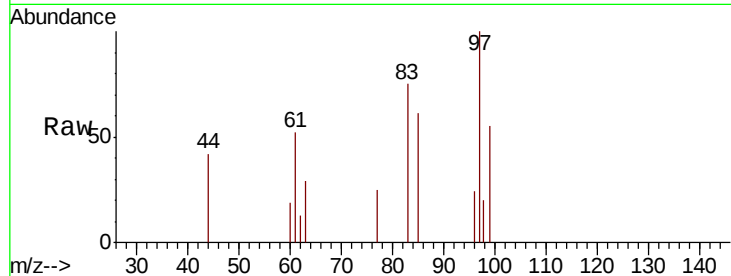
#45
1,1,2-Trichloroethane
Concen: 0.280 ug/L
RT: 8.08 min Scan# 2147
Delta R.T. 0.01 min
Lab File: VU027872.D
Acq: 30 Oct 2018 13:55

Instrument :
MSVOA_U
ClientSampled :
MDL01

Tot Ion:	97	Resp:	1201
Ion	Ratio	Lower	Upper
97	100		
99	55.5	42.9	79.7
83	75.4	62.2	115.6
85	60.6	40.2	74.6

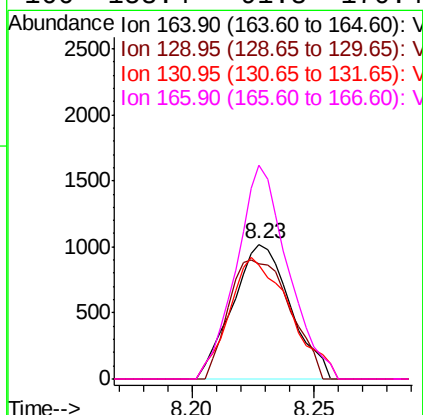
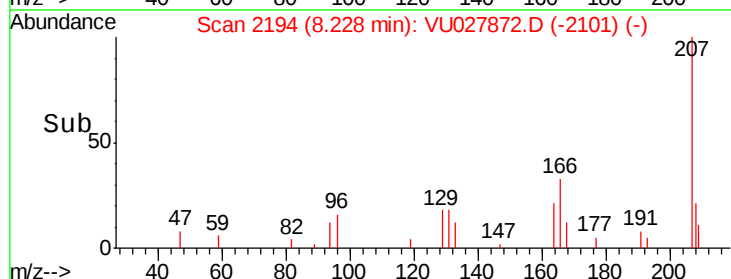
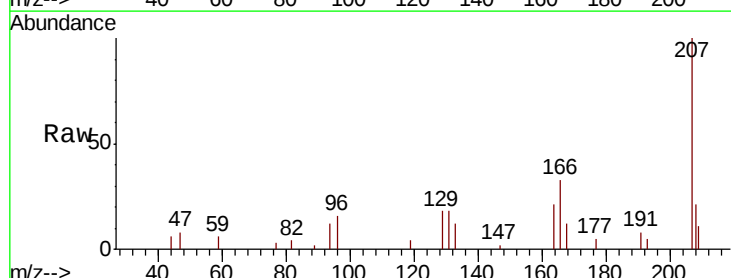
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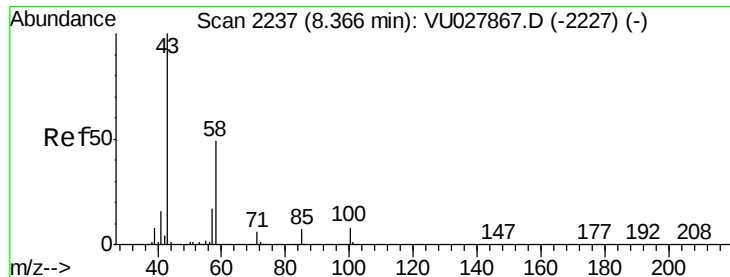
MMDadoda
11/1/2018 11:15:19 AM



#47
Tetrachloroethene
Concen: 0.342 ug/L
RT: 8.23 min Scan# 2194
Delta R.T. -0.00 min
Lab File: VU027872.D
Acq: 30 Oct 2018 13:55

Tgt Ion:	164	Resp:	1676
Ion	Ratio	Lower	Upper
164	100		
129	86.0	64.9	120.5
131	84.6	64.3	119.5
166	158.4	91.8	170.4





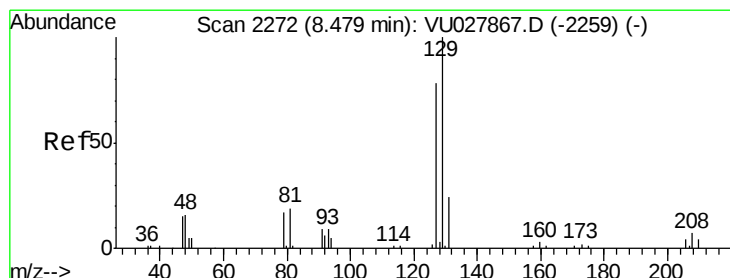
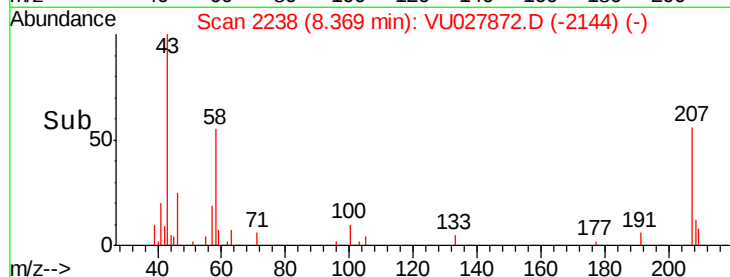
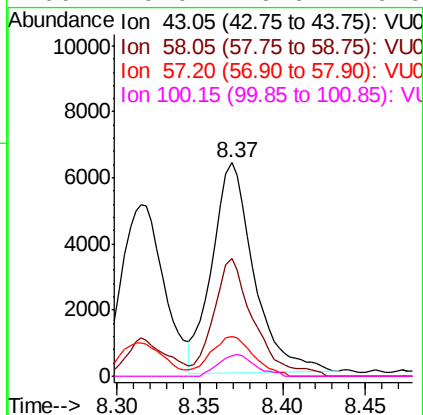
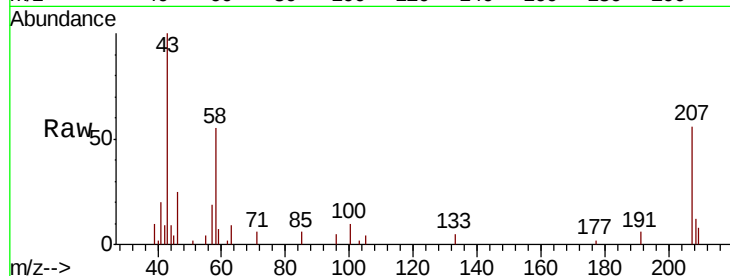
#48
2-Hexanone
Concen: 3.143 ug/L
RT: 8.37 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VU027872.D
Acq: 30 Oct 2018 13:55

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion:	43	Resp:	11181
Ion Ratio	Lower	Upper	
43	100		
58	53.4	38.9	58.3
57	19.2	13.3	19.9
100	9.0	6.6	10.0

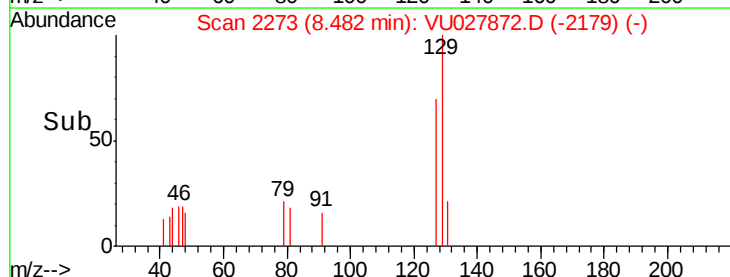
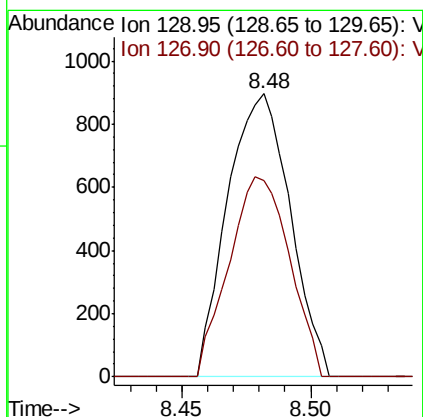
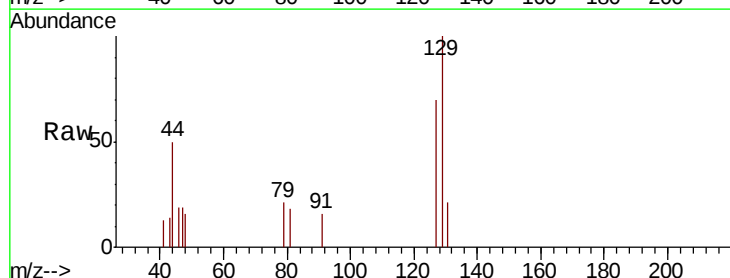
Manual Integrations
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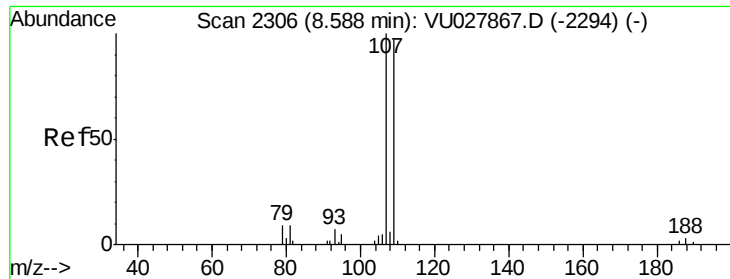
MMDadoda
11/1/2018 11:15:19 AM



#49
Dibromochloromethane
Concen: 0.292 ug/L
RT: 8.48 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VU027872.D
Acq: 30 Oct 2018 13:55

Tgt Ion:	129	Resp:	1517
Ion Ratio	Lower	Upper	
129	100		
127	69.5	54.5	101.1





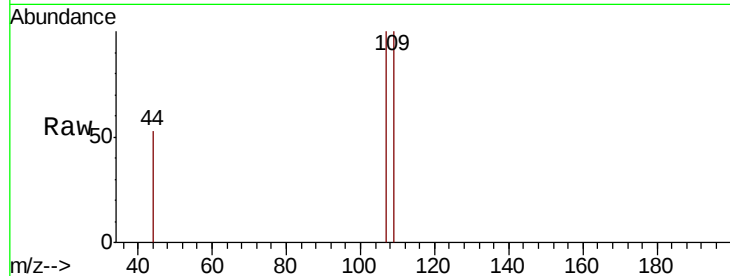
#50
1,2-Dibromoethane
Concen: 0.306 ug/L
RT: 8.59 min Scan# 2307
Delta R.T. 0.00 min
Lab File: VU027872.D
Acq: 30 Oct 2018 13:55

Instrument :
MSVOA_U
ClientSampled :
MDL01

Tot Ion	Ratio	Resp	Lower	Upper
107	100	1259		
109	100.1	68.0	126.4	
188	0.0	2.7	4.1#	

Manual Integrations
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MMDadoda
11/1/2018 11:15:19 AM

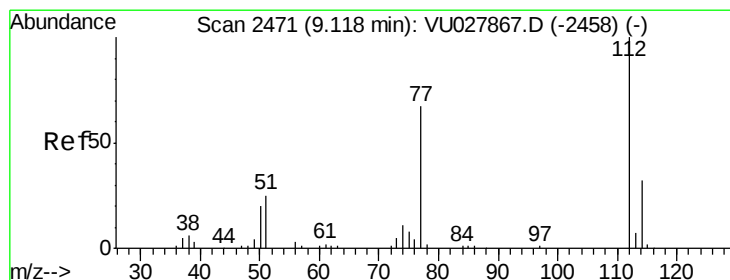
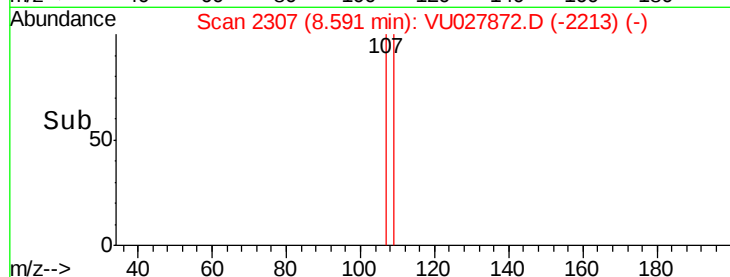
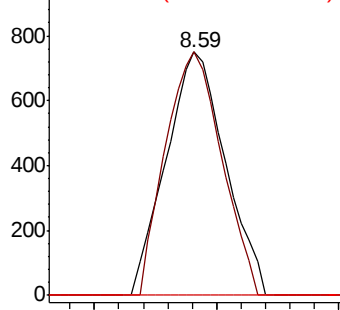


Abundance

Ion 106.95 (106.65 to 107.65): V

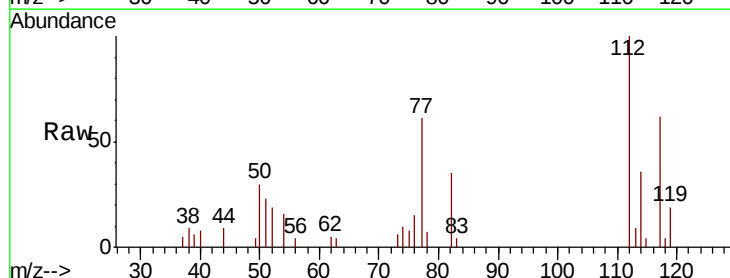
Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51
Chlorobenzene
Concen: 0.328 ug/L
RT: 9.12 min Scan# 2472
Delta R.T. 0.00 min
Lab File: VU027872.D
Acq: 30 Oct 2018 13:55

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	5222		
114	35.9	22.0	41.0	
77	60.8	54.3	81.5	

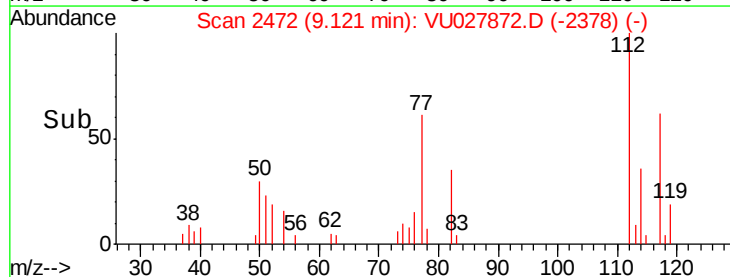
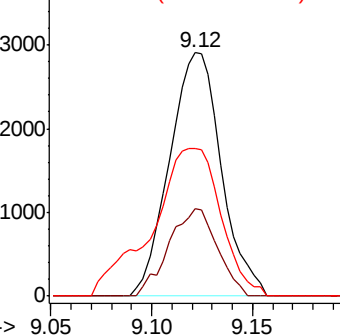


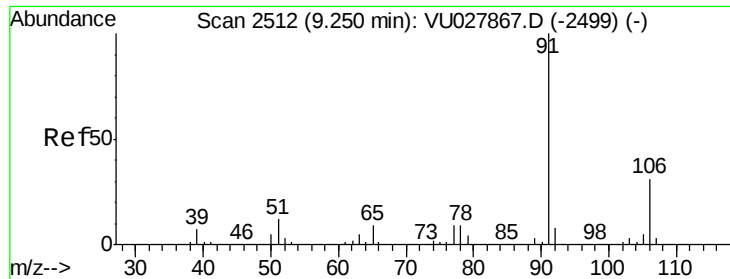
Abundance

Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU





#52

Ethylbenzene

Concen: 0.329 ug/L

RT: 9.25 min Scan# 2512

Delta R.T. -0.00 min

Lab File: VU027872.D

Acq: 30 Oct 2018 13:55

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tot Ion: 91 Resp: 9615

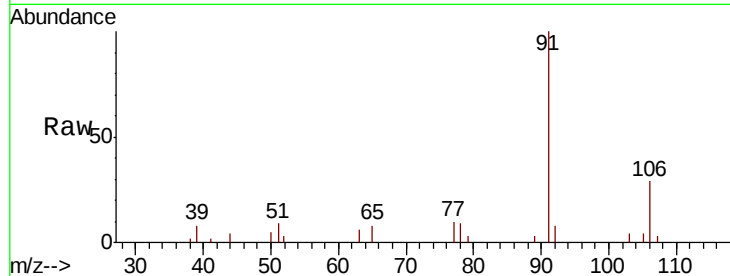
Ion Ratio Lower Upper

91 100

106 28.9 21.5 39.9

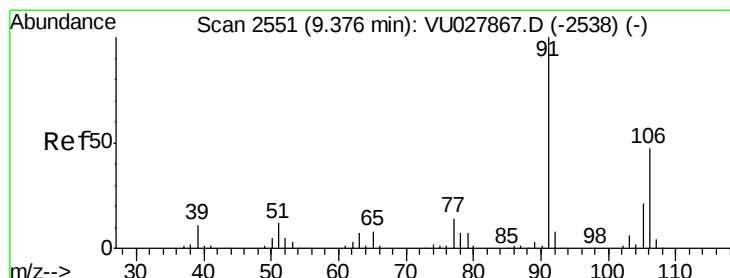
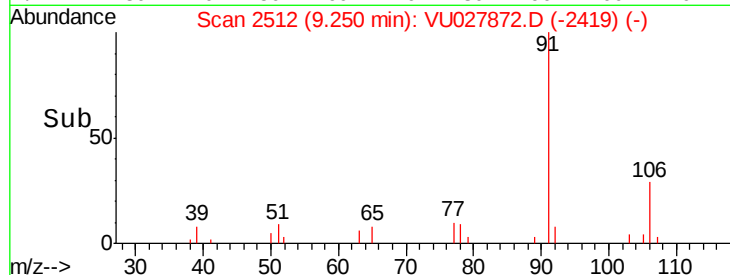
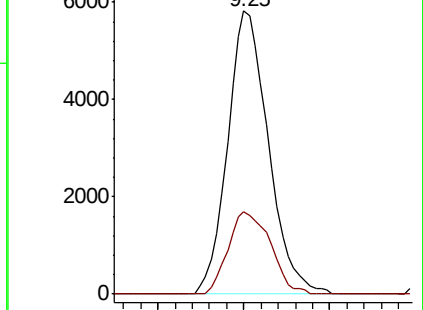
Manual Integrations
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MMDadoda
11/1/2018 11:15:19 AM



Abundance Ion 91.15 (90.85 to 91.85): VU027867.D (-2499) (-)

Ion 106.15 (105.85 to 106.85): VU027867.D (-2499) (-)



#53

m,p-xylene

Concen: 0.293 ug/L

RT: 9.38 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VU027872.D

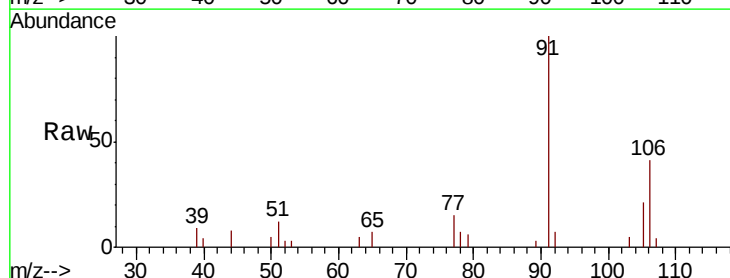
Acq: 30 Oct 2018 13:55

Tgt Ion: 106 Resp: 3110

Ion Ratio Lower Upper

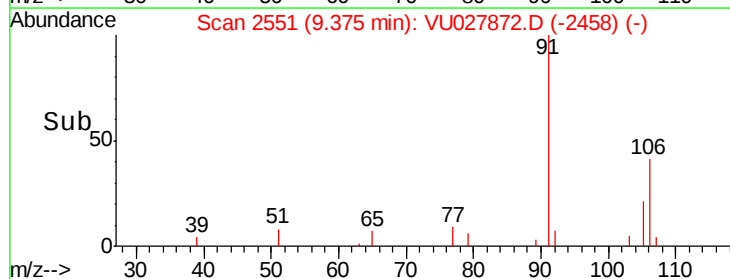
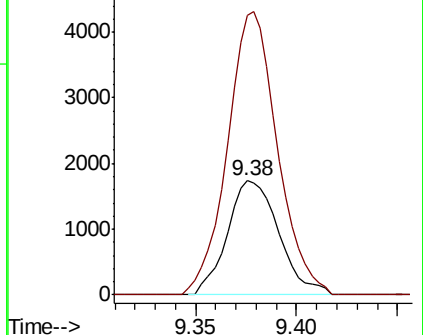
106 100

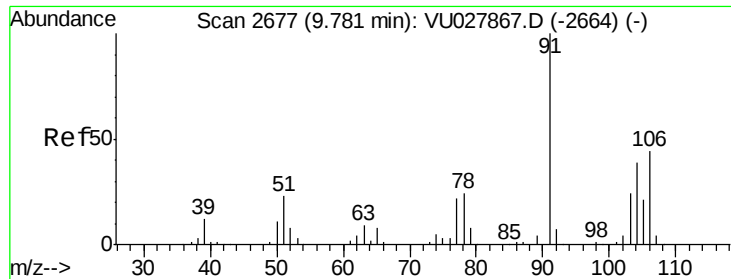
91 245.1 148.7 276.1



Abundance Ion 106.15 (105.85 to 106.85): VU027867.D (-2538) (-)

Ion 91.15 (90.85 to 91.85): VU027867.D (-2538) (-)





#54

o-xylene

Concen: 0.307 ug/L

RT: 9.78 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VU027872.D

Acq: 30 Oct 2018 13:55

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion:106 Resp: 3199

Ion Ratio Lower Upper

106 100

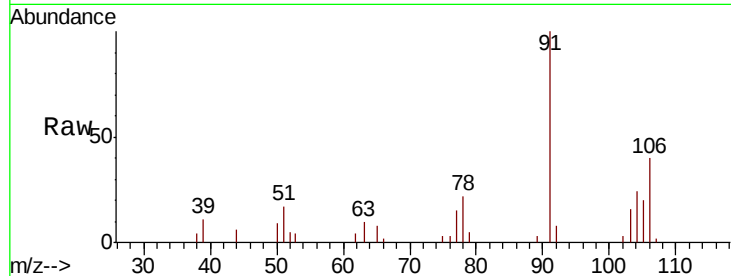
91 248.5 158.3 293.9

Manual Integrations

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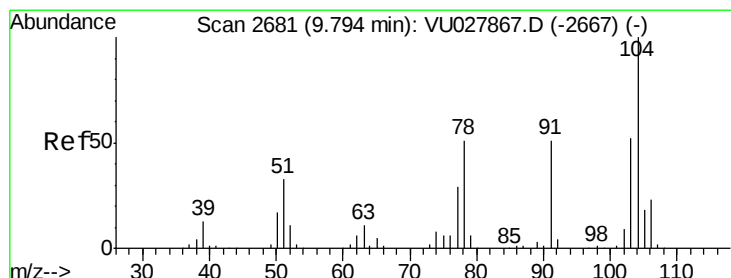
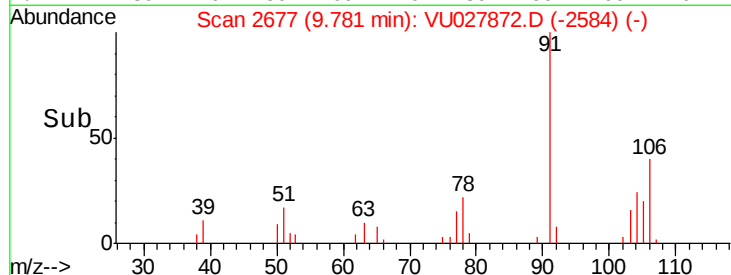
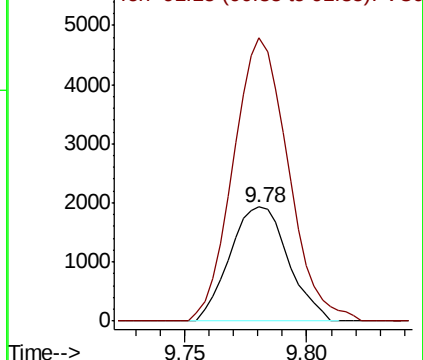
MMDadoda

11/1/2018 11:15:19 AM



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 0.318 ug/L

RT: 9.80 min Scan# 2682

Delta R.T. 0.00 min

Lab File: VU027872.D

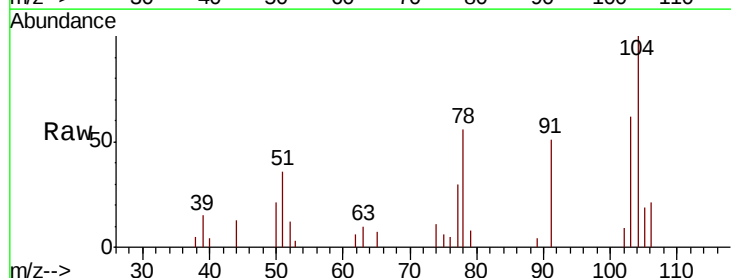
Acq: 30 Oct 2018 13:55

Tgt Ion:104 Resp: 5547

Ion Ratio Lower Upper

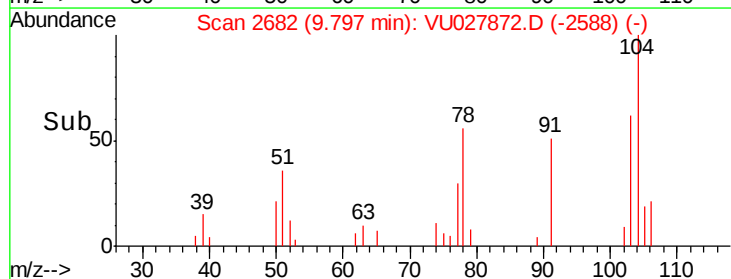
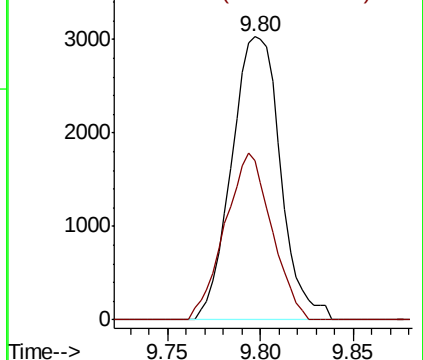
104 100

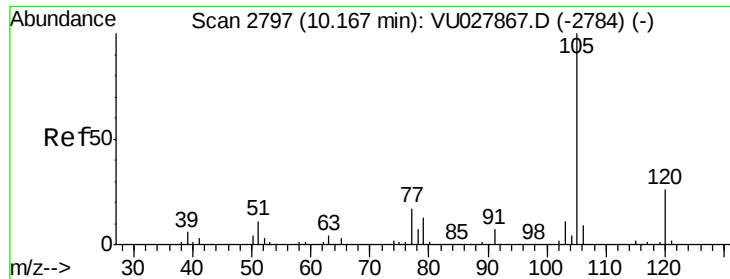
78 56.3 35.6 66.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





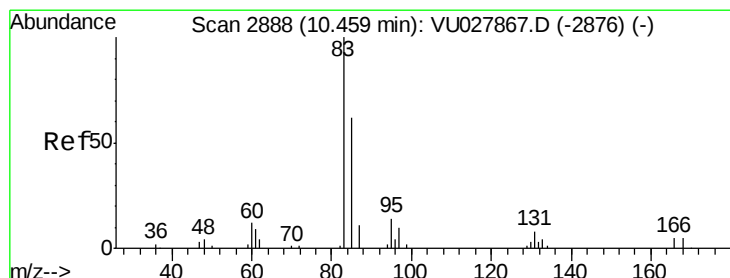
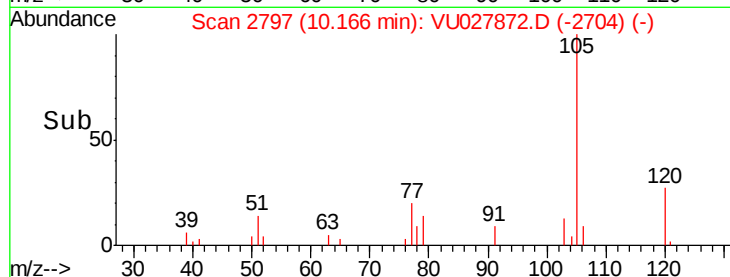
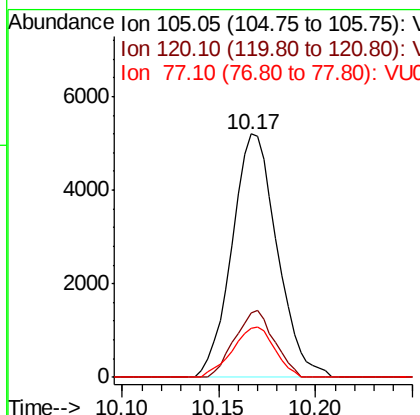
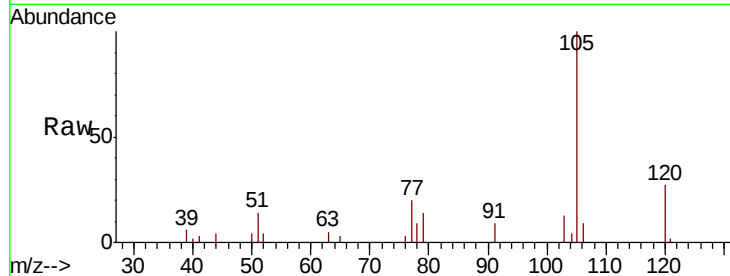
#56
Isopropylbenzene
Concen: 0.298 ug/L
RT: 10.17 min Scan# 2797
Delta R.T. -0.00 min
Lab File: VU027872.D
Acq: 30 Oct 2018 13:55

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion	Ratio	Lower	Upper
105	100		
120	23.9	20.2	30.2
77	19.2	13.4	20.2

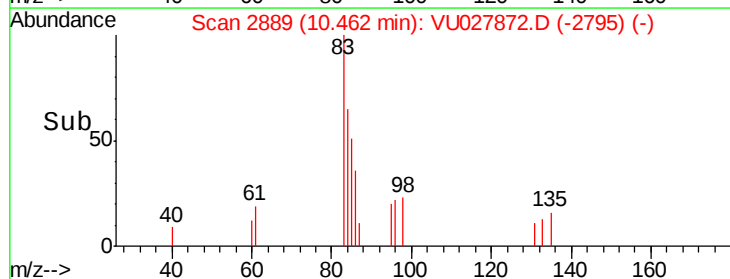
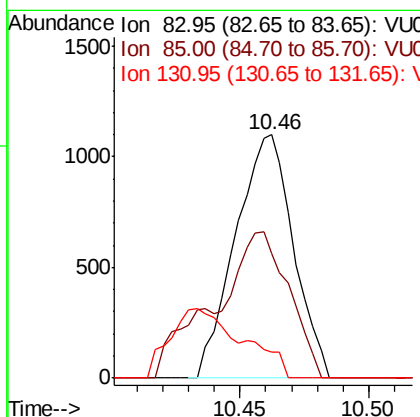
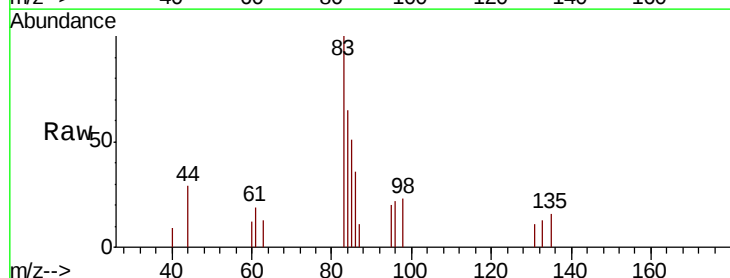
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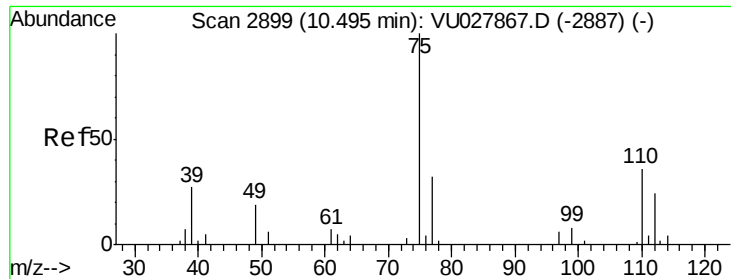
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#58
1,1,2,2-Tetrachloroethane
Concen: 0.307 ug/L
RT: 10.46 min Scan# 2889
Delta R.T. 0.00 min
Lab File: VU027872.D
Acq: 30 Oct 2018 13:55

Tgt Ion	Ratio	Lower	Upper
83	100		
85	51.4	44.4	82.4
131	10.6	6.8	10.2#





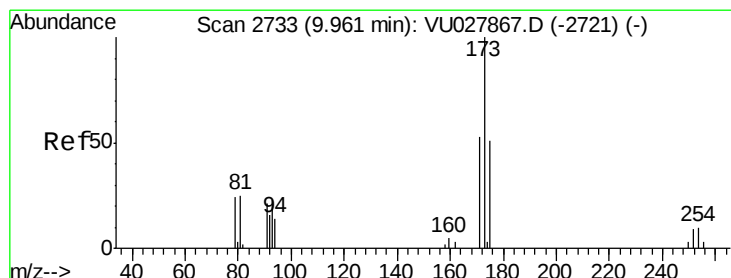
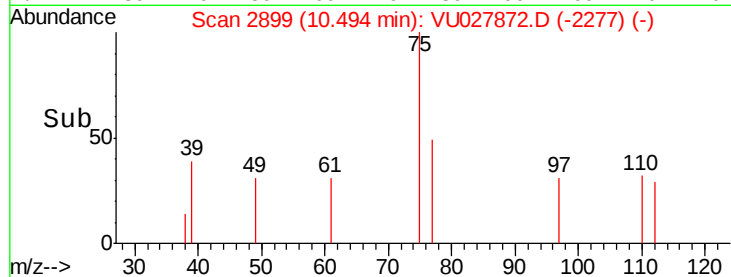
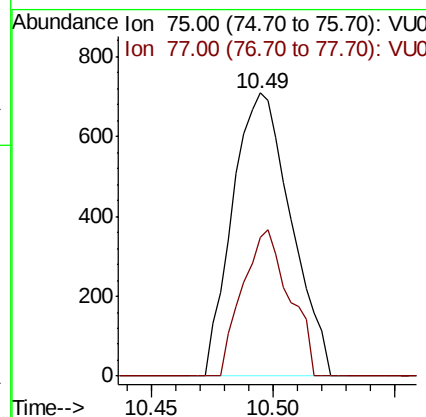
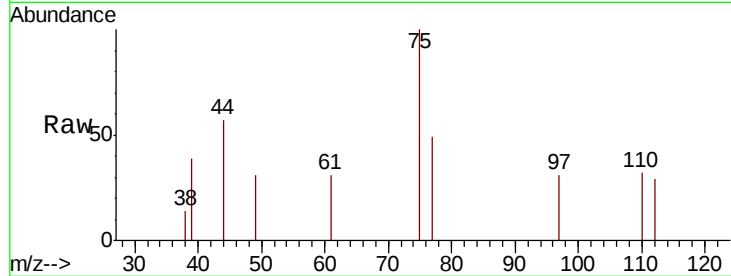
#59
 1,2,3-Trichloropropane
 Concen: 0.280 ug/L m
 RT: 10.49 min Scan# 2899
 Delta R.T. -0.00 min
 Lab File: VU027872.D
 Acq: 30 Oct 2018 13:55

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Tot Ion: 75 Resp: 1184
 Ion Ratio Lower Upper
 75 100
 77 157.3 25.8 38.6#

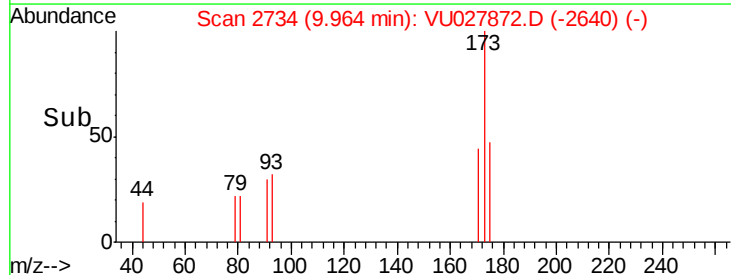
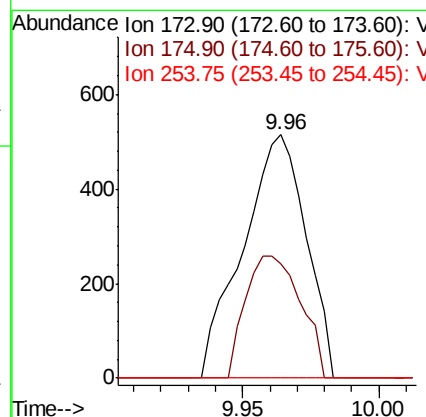
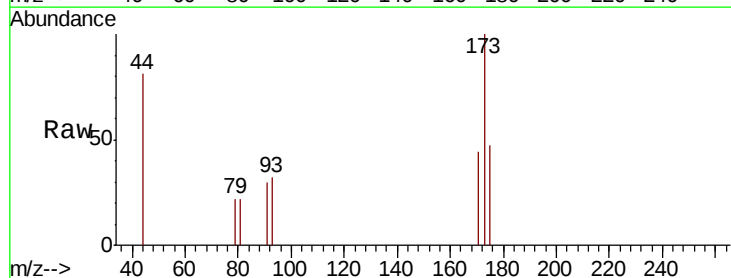
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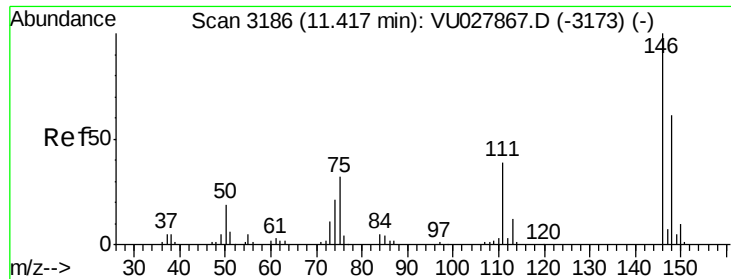
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#61
 Bromoform
 Concen: 0.294 ug/L
 RT: 9.96 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VU027872.D
 Acq: 30 Oct 2018 13:55

Tgt Ion: 173 Resp: 828
 Ion Ratio Lower Upper
 173 100
 175 44.0 38.3 57.5
 254 0.0 7.8 11.6#





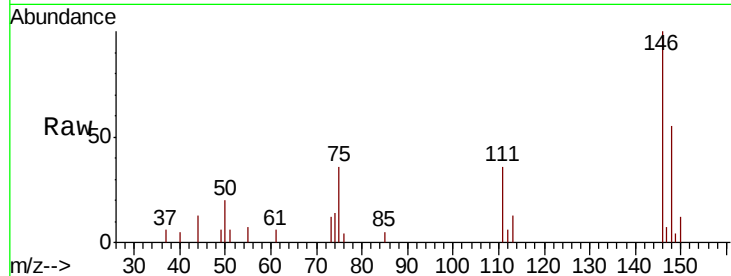
#62
 1,3-Dichlorobenzene
 Concen: 0.335 ug/L
 RT: 11.42 min Scan# 3187
 Delta R.T. 0.00 min
 Lab File: VU027872.D
 Acq: 30 Oct 2018 13:55

Instrument :
 MSVOA_U
 ClientSampled :
 MDL01

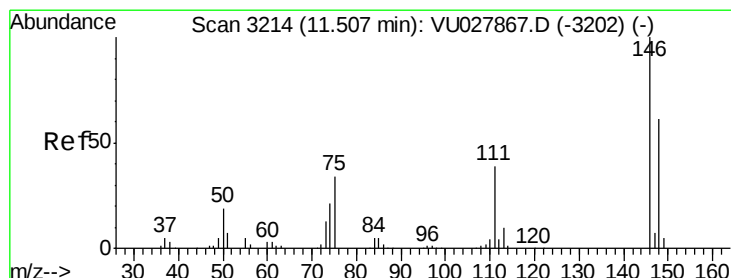
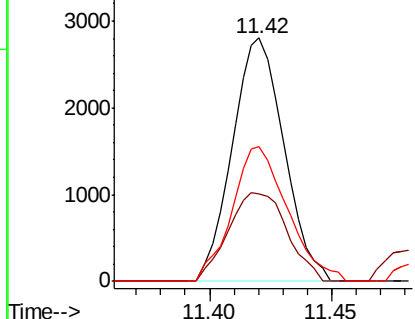
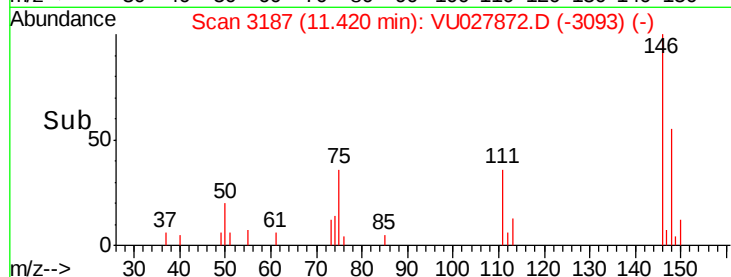
Tot Ion	Ratio	Lower	Upper
146	100		
111	36.2	27.4	51.0
148	55.4	42.6	79.0

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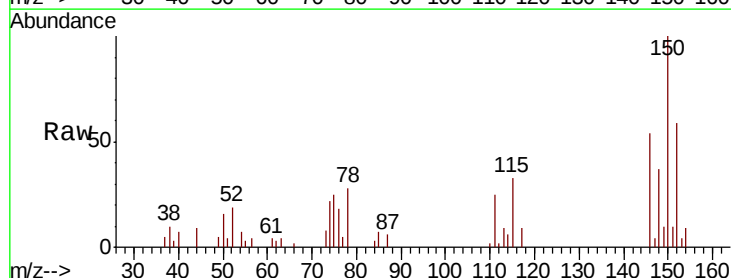


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

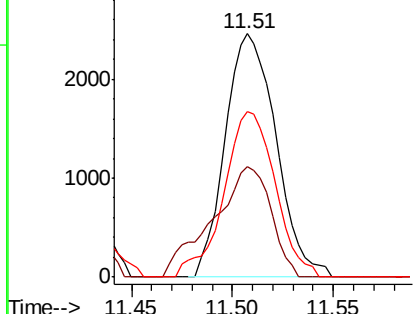
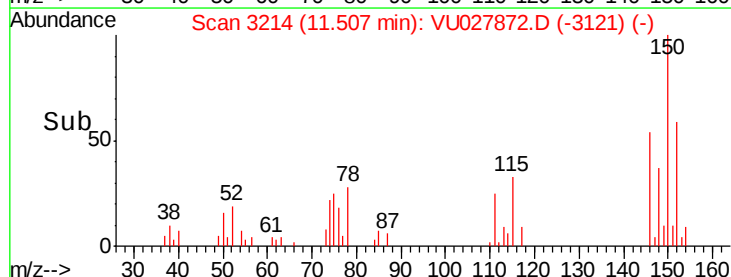


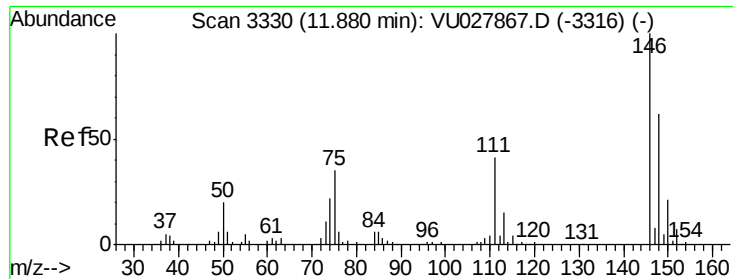
#63
 1,4-Dichlorobenzene
 Concen: 0.352 ug/L
 RT: 11.51 min Scan# 3214
 Delta R.T. -0.00 min
 Lab File: VU027872.D
 Acq: 30 Oct 2018 13:55

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.3	27.4	51.0
148	67.9	43.1	80.1



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 0.334 ug/L

RT: 11.88 min Scan# 3331

Delta R.T. 0.00 min

Lab File: VU027872.D

Acq: 30 Oct 2018 13:55

Instrument :

MSVOA_U

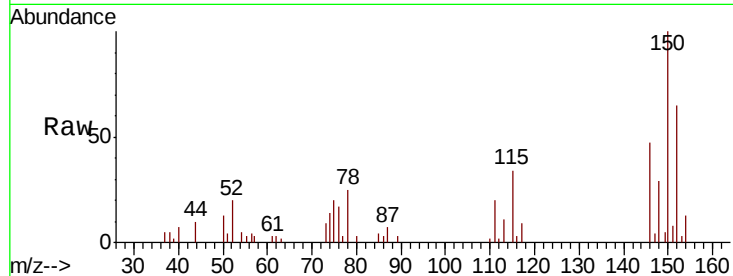
ClientSampleId :

MDL01

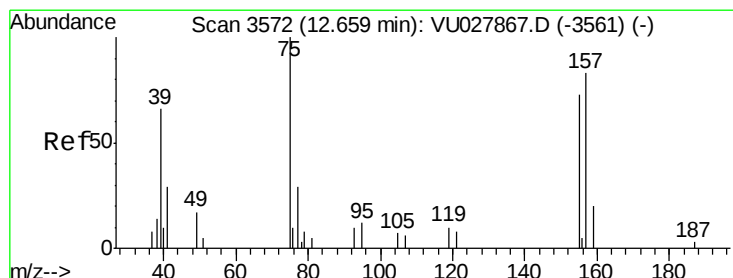
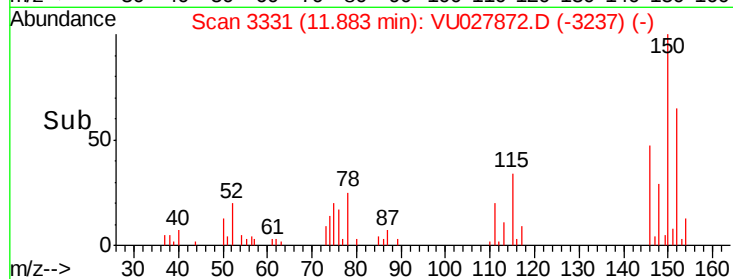
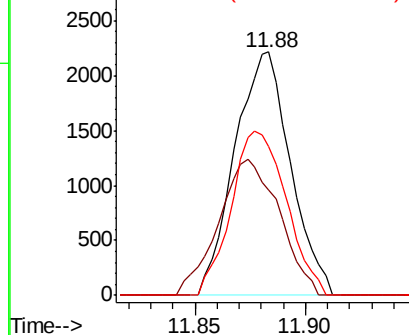
Tot Ion:	146	Resp:	3885
Ion Ratio	Lower	Upper	
146	100		
111	43.3	33.0	49.4
148	61.1	49.2	73.8

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Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 0.237 ug/L

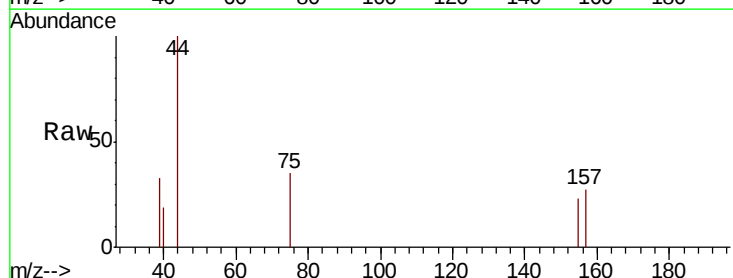
RT: 12.66 min Scan# 3572

Delta R.T. -0.00 min

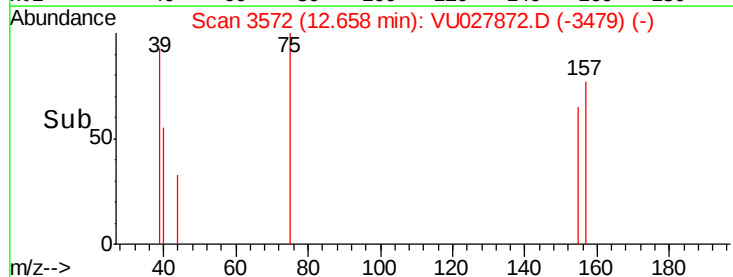
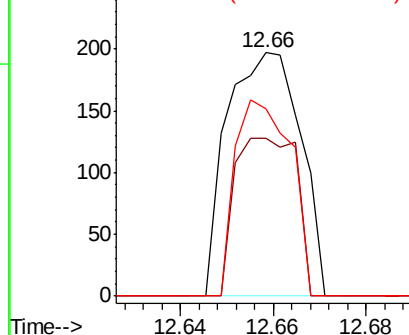
Lab File: VU027872.D

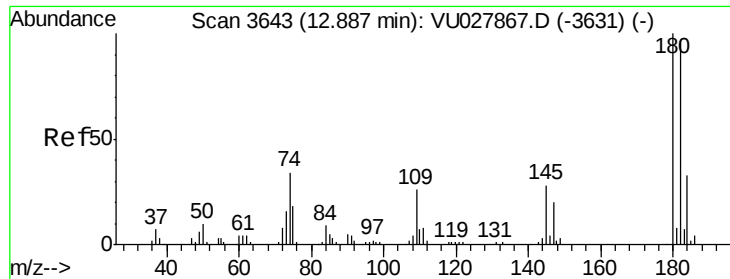
Acq: 30 Oct 2018 13:55

Tgt Ion:	75	Resp:	216
Ion Ratio	Lower	Upper	
75	100		
155	65.0	58.6	87.8
157	77.2	66.7	100.1



Abundance Ion 75.05 (74.75 to 75.75): VU0
Ion 154.95 (154.65 to 155.65): V
Ion 156.90 (156.60 to 157.60): V





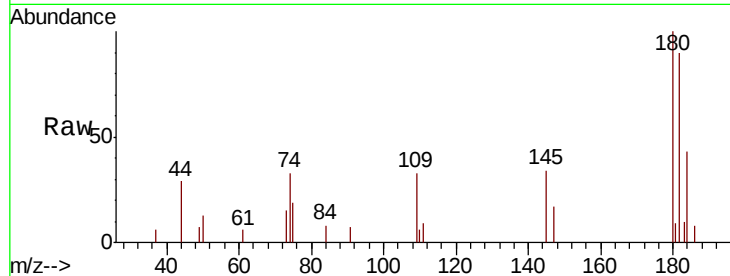
#67
 1,3,5-Trichlorobenzene
 Concen: 0.310 ug/L
 RT: 12.89 min Scan# 3644
 Delta R.T. 0.00 min
 Lab File: VU027872.D
 Acq: 30 Oct 2018 13:55

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.4	77.3	115.9
184	34.9	24.6	37.0
145	31.3	23.0	34.6

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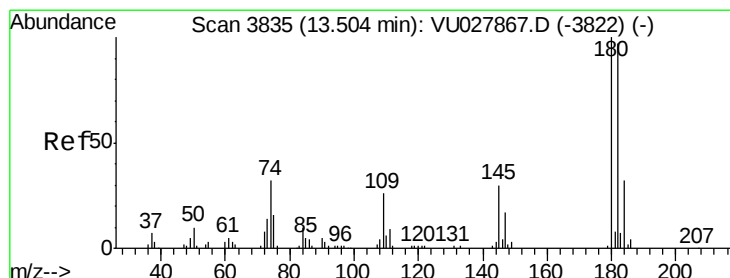
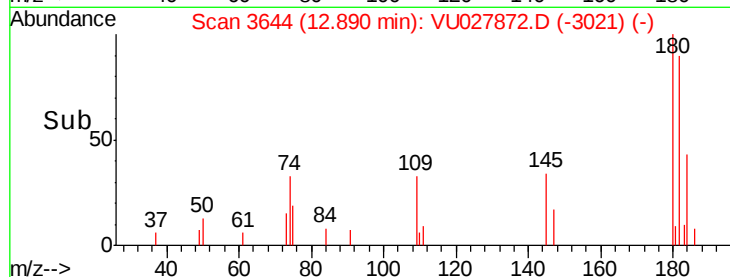
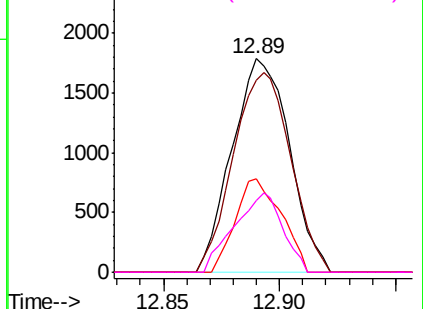
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

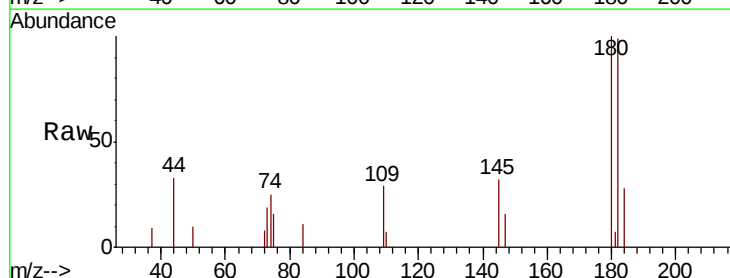
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 0.301 ug/L
 RT: 13.51 min Scan# 3836
 Delta R.T. 0.00 min
 Lab File: VU027872.D
 Acq: 30 Oct 2018 13:55

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.0	77.8	116.6
145	26.7	22.9	34.3

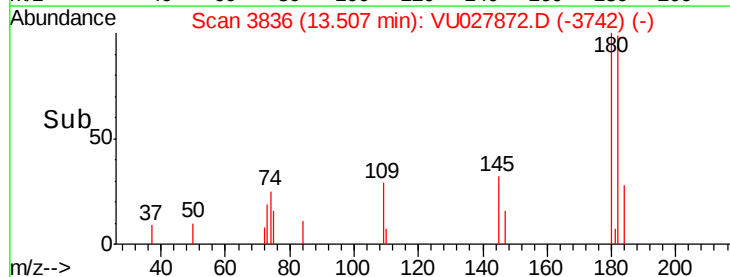
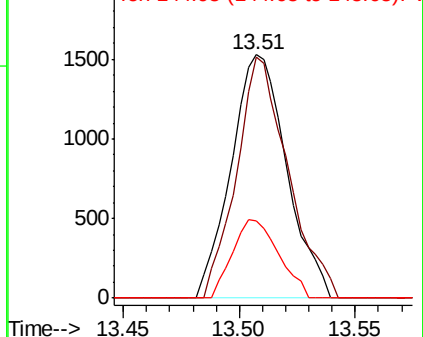


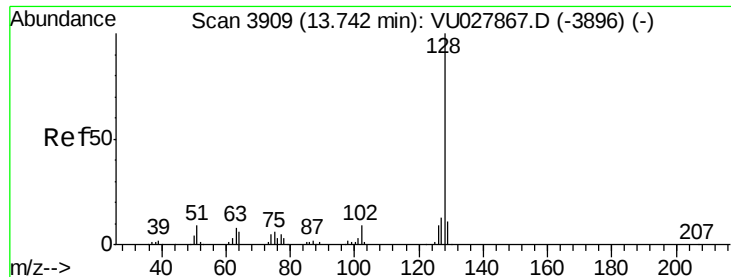
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





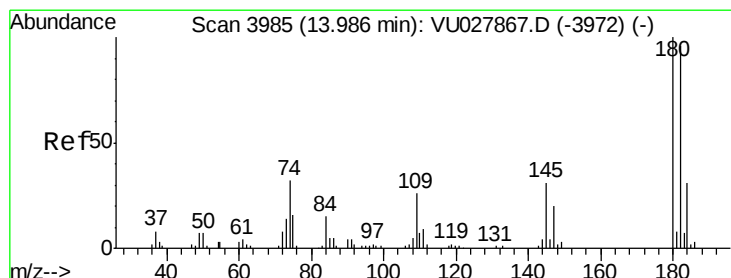
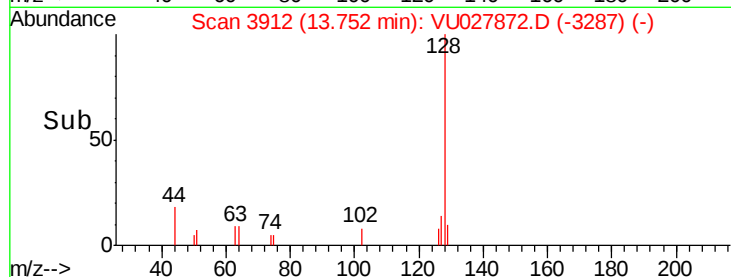
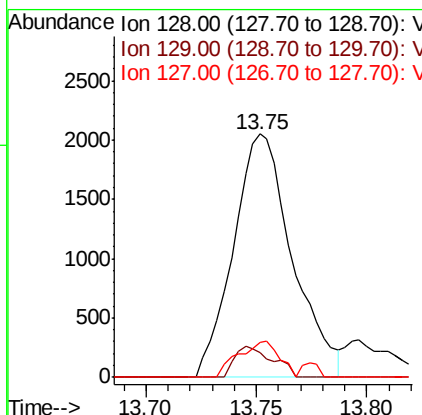
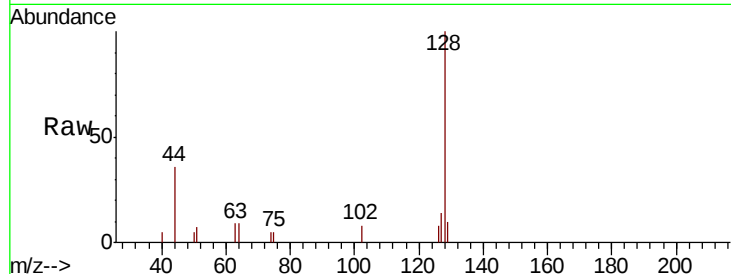
#69
Naphthalene
Concen: 0.289 ug/L
RT: 13.75 min Scan# 3912
Delta R.T. 0.01 min
Lab File: VU027872.D
Acq: 30 Oct 2018 13:55

Instrument :
MSVOA_U
ClientSampled :
MDL01

Tot Ion	Ratio	Lower	Upper
128	100		
129	8.1	8.6	12.8#
127	10.2	10.5	15.7#

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#70
1,2,3-Trichlorobenzene
Concen: 0.333 ug/L m
RT: 13.99 min Scan# 3986
Delta R.T. 0.00 min
Lab File: VU027872.D
Acq: 30 Oct 2018 13:55

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.0	79.4	119.0
145	30.2	25.4	38.0

