

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U103018\
 Data File : VU027876.D
 Acq On : 30 Oct 2018 16:20
 Operator : MD/SY
 Sample : MDL05
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Manual Integrations
 APPROVED

MMDadoda
 11/1/2018 11:15:48 AM

Quant Time: Oct 31 02:43:57 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	81134	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	77961	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	39055	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	30487	4.81	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	96.20%
7) Chloroethane-d5	1.68	69	23191	4.74	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.80%
11) 1,1-Dichloroethene-d2	2.28	63	43720	3.63	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	72.60%
20) 2-Butanone-d5	4.19	46	91995	48.65	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.30%
24) Chloroform-d	4.65	84	52530	4.61	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.20%
26) 1,2-Dichloroethane-d4	5.31	65	31776	4.85	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.00%
32) Benzene-d6	5.34	84	101930	4.77	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.40%
36) 1,2-Dichloropropane-d6	6.33	67	35711	4.73	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.60%
41) Toluene-d8	7.57	98	94652	4.66	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.20%
43) trans-1,3-Dichloropropene-	7.85	79	13378	4.57	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.40%
46) 2-Hexanone-d5	8.31	63	76338	47.71	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	95.42%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	25431	4.76	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.20%
64) 1,2-Dichlorobenzene-d4	11.86	152	34785	4.66	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.21	85	2354	0.295 ug/L	99
3) Chloromethane	1.33	50	2552	0.322 ug/L	97
5) Vinyl chloride	1.40	62	2635	0.334 ug/L #	65
6) Bromomethane	1.63	94	755	0.291 ug/L	81
8) Chloroethane	1.70	64	1879m	0.407 ug/L	
9) Trichlorofluoromethane	1.89	101	3621	0.346 ug/L	90
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	1859	0.348 ug/L	92
12) 1,1-Dichloroethene	2.29	96	1919	0.381 ug/L #	1
13) Acetone	2.33	43	5427	4.553 ug/L	84
14) Carbon disulfide	2.48	76	5785	0.321 ug/L	98
15) Methyl Acetate	2.62	43	1359	0.426 ug/L #	85
16) Methylene chloride	2.71	84	2081	0.368 ug/L	88
17) Methyl tert-butyl Ether	3.01	73	4659	0.310 ug/L #	88
18) trans-1,2-Dichloroethene	2.99	96	1711	0.319 ug/L	93
19) 1,1-Dichloroethane	3.45	63	3629	0.321 ug/L	97
21) 2-Butanone	4.28	43	6474m	3.124 ug/L	
22) cis-1,2-Dichloroethene	4.22	96	1877m	0.303 ug/L	

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Manual Integrations
 APPROVED

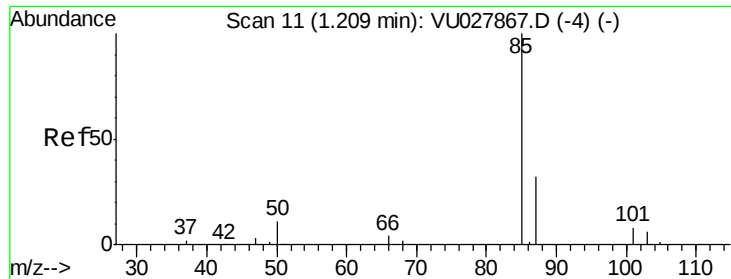
MMDadoda
 11/1/2018 11:15:48 AM

Quant Time: Oct 31 02:43:57 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)

23) Bromochloromethane	4.56	128	785	0.306	ug/L #	67
25) Chloroform	4.68	83	3808	0.332	ug/L	100
27) 1,2-Dichloroethane	5.41	62	2739	0.342	ug/L #	78
29) 1,1,1-Trichloroethane	4.92	97	2784	0.277	ug/L	91
30) Cyclohexane	5.00	56	3393	0.287	ug/L	92
31) Carbon tetrachloride	5.13	117	2664	0.309	ug/L	99
33) Benzene	5.39	78	7646	0.310	ug/L	100
34) Trichloroethene	6.19	95	1872	0.291	ug/L #	88
35) Methylcyclohexane	6.41	83	3333	0.305	ug/L	91
37) 1,2-Dichloropropane	6.43	63	2278	0.324	ug/L #	90
38) Bromodichloromethane	6.76	83	2328	0.283	ug/L	87
39) cis-1,3-Dichloropropene	7.27	75	3108	0.308	ug/L	96
40) 4-Methyl-2-pentanone	7.47	43	15628	3.145	ug/L #	92
42) Toluene	7.64	91	8054	0.312	ug/L	96
44) trans-1,3-Dichloropropene	7.88	75	2632	0.304	ug/L	96
45) 1,1,2-Trichloroethane	8.07	97	1399	0.323	ug/L	82
47) Tetrachloroethene	8.23	164	1684	0.341	ug/L	87
48) 2-Hexanone	8.37	43	11817	3.299	ug/L	99
49) Dibromochloromethane	8.48	129	1350	0.258	ug/L	94
50) 1,2-Dibromoethane	8.59	107	1302	0.315	ug/L #	86
51) Chlorobenzene	9.12	112	5122	0.320	ug/L	94
52) Ethylbenzene	9.25	91	8958	0.304	ug/L	99
53) m,p-xylene	9.38	106	3027	0.283	ug/L	97
54) o-xylene	9.78	106	3063	0.292	ug/L	95
55) Styrene	9.80	104	4856	0.276	ug/L	93
56) Isopropylbenzene	10.17	105	8476	0.297	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.46	83	1892	0.335	ug/L #	87
59) 1,2,3-Trichloropropane	10.50	75	1346m	0.316	ug/L	
61) Bromoform	9.96	173	648m	0.226	ug/L	
62) 1,3-Dichlorobenzene	11.42	146	3567	0.284	ug/L	93
63) 1,4-Dichlorobenzene	11.51	146	4169	0.332	ug/L	98
65) 1,2-Dichlorobenzene	11.88	146	3851	0.325	ug/L	90
67) 1,3,5-Trichlorobenzene	12.89	180	3057	0.302	ug/L	98
68) 1,2,4-trichlorobenzene	13.51	180	2343m	0.273	ug/L	
69) Naphthalene	13.75	128	3588	0.268	ug/L #	86
70) 1,2,3-Trichlorobenzene	13.99	180	2063	0.263	ug/L #	86

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



#2

Dichlorodifluoromethane

Concen: 0.295 ug/L

RT: 1.21 min Scan# 11

Delta R.T. -0.00 min

Lab File: VU027876.D

Acq: 30 Oct 2018 16:20

Instrument :

MSVOA_U

ClientSampleId :

MDL05

Tot Ion: 85 Resp: 2354

Ion Ratio Lower Upper

85 100

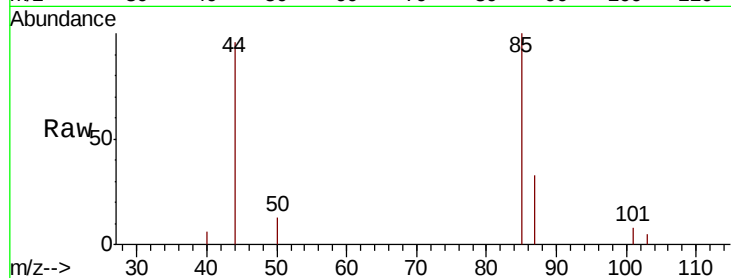
87 30.7 25.2 37.8

Manual Integrations

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Abundance Ion 85.00 (84.70 to 85.70): VU027867.D (-4) (-)

Ion 87.00 (86.70 to 87.70): VU027867.D (-4) (-)

1.21

2500

2000

1500

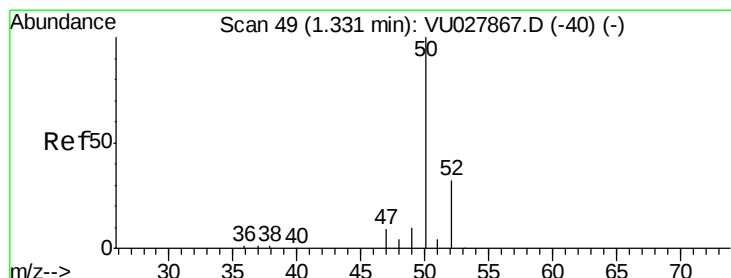
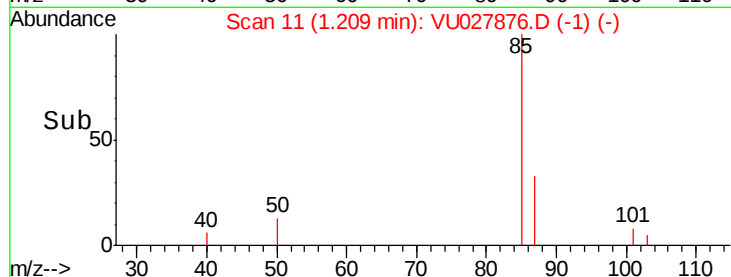
1000

500

0

1.18 1.20 1.22 1.24

Time-->



#3

Chloromethane

Concen: 0.322 ug/L

RT: 1.33 min Scan# 49

Delta R.T. -0.00 min

Lab File: VU027876.D

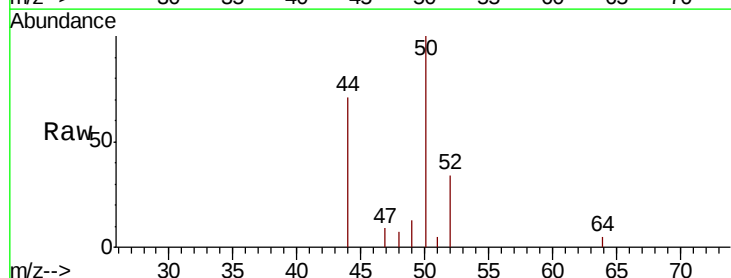
Acq: 30 Oct 2018 16:20

Tgt Ion: 50 Resp: 2552

Ion Ratio Lower Upper

50 100

52 33.7 22.3 41.5



Abundance Ion 50.05 (49.75 to 50.75): VU027867.D (-40) (-)

Ion 52.05 (51.75 to 52.75): VU027867.D (-40) (-)

1.33

2500

2000

1500

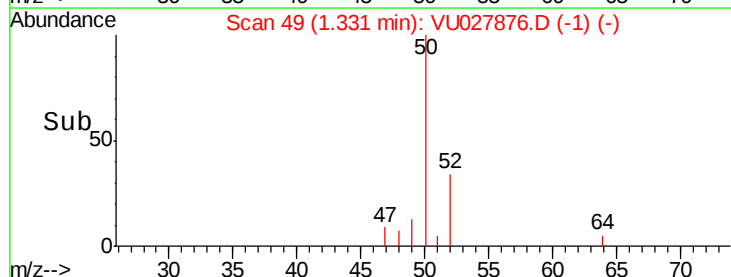
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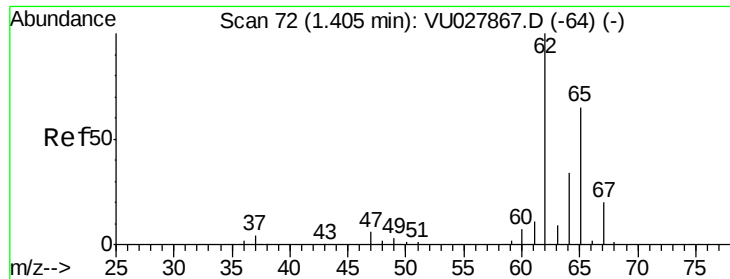
500

0

1.30 1.32 1.34 1.36

Time-->





#5

Vinyl chloride

Concen: 0.334 ug/L

RT: 1.40 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU027876.D

Acq: 30 Oct 2018 16:20

Instrument :

MSVOA_U

ClientSampled :

MDL05

Tot Ion: 62 Resp: 2635

Ion Ratio Lower Upper

62 100

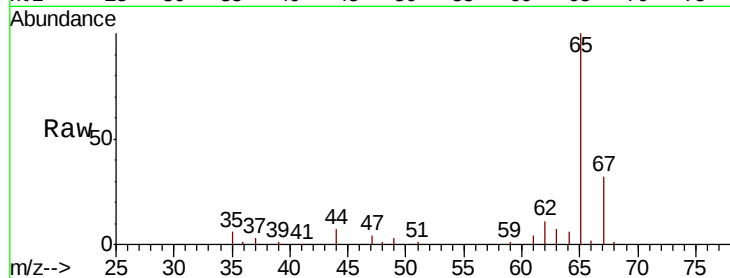
64 54.6 24.0 44.6#

Manual Integrations

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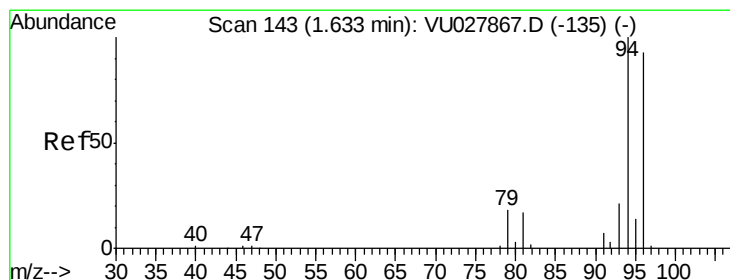
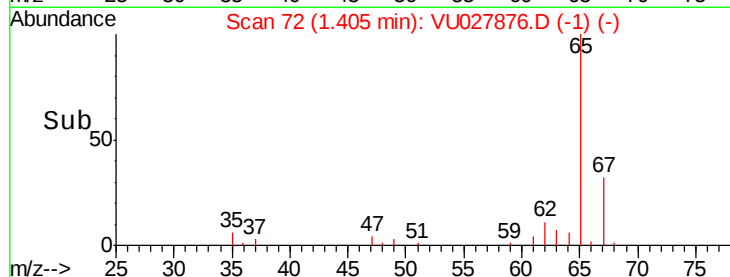
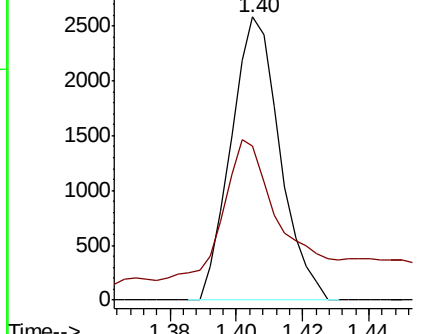
MMDadoda

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Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 0.291 ug/L

RT: 1.63 min Scan# 143

Delta R.T. -0.00 min

Lab File: VU027876.D

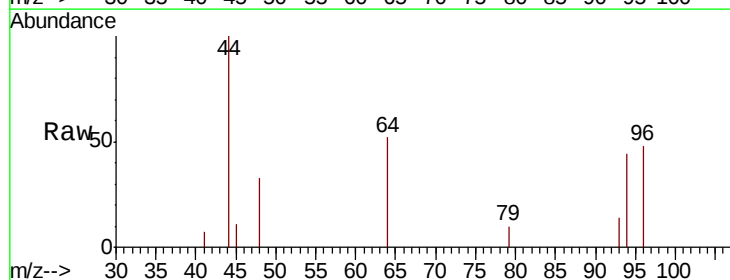
Acq: 30 Oct 2018 16:20

Tgt Ion: 94 Resp: 755

Ion Ratio Lower Upper

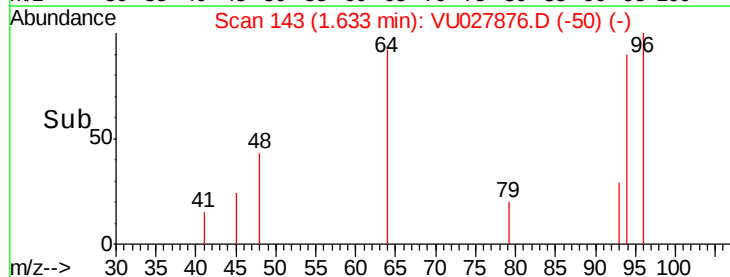
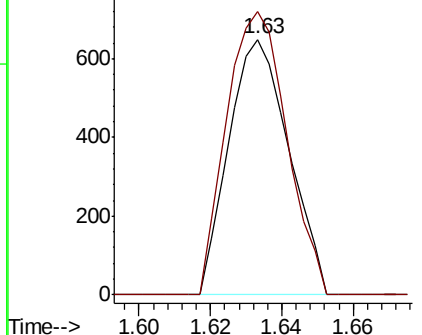
94 100

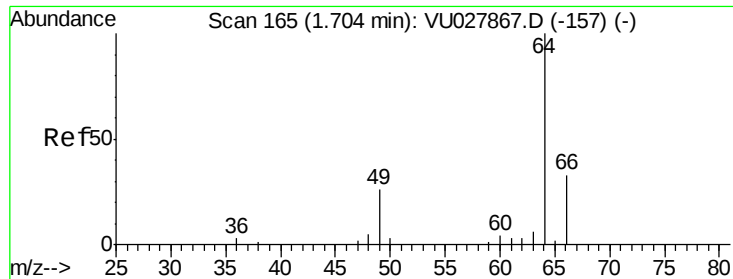
96 110.8 65.0 120.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





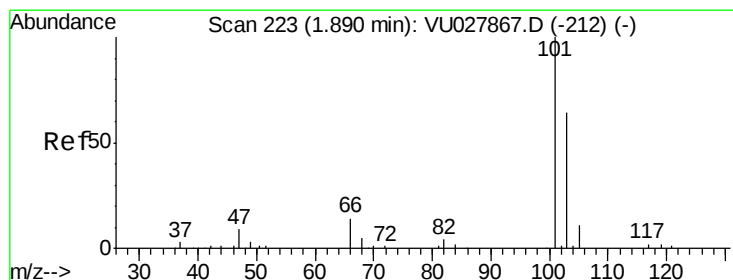
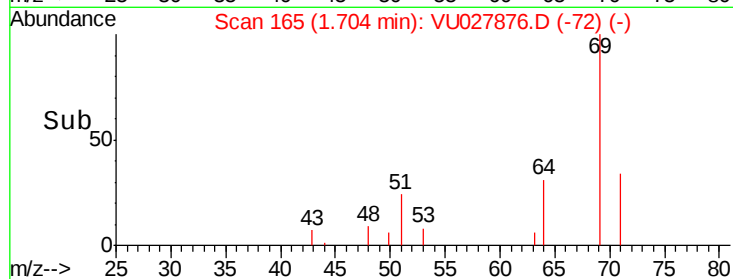
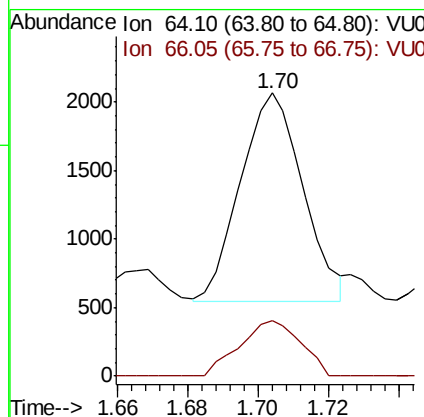
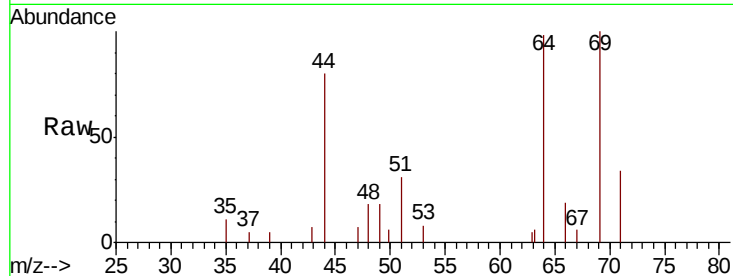
#8
 Chloroethane
 Concen: 0.407 ug/L m
 RT: 1.70 min Scan# 165
 Delta R.T. -0.00 min
 Lab File: VU027876.D
 Acq: 30 Oct 2018 16:20

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Tot Ion: 64 Resp: 1879
 Ion Ratio Lower Upper
 64 100
 66 19.7 21.8 40.6#

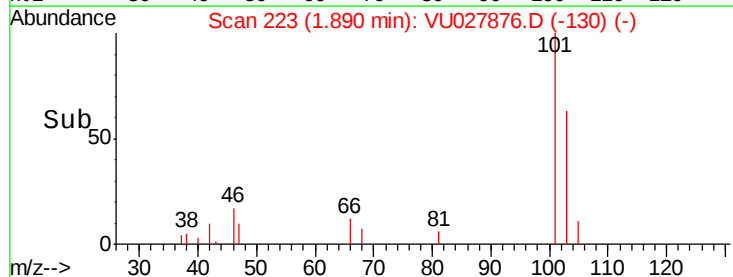
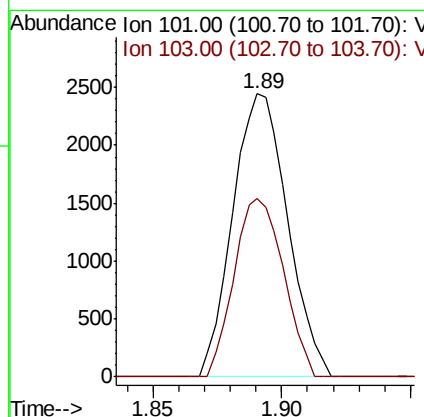
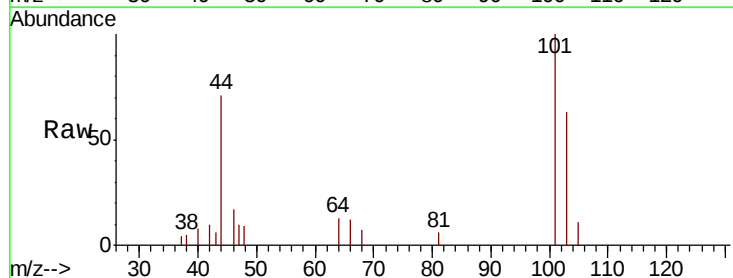
Manual Integrations
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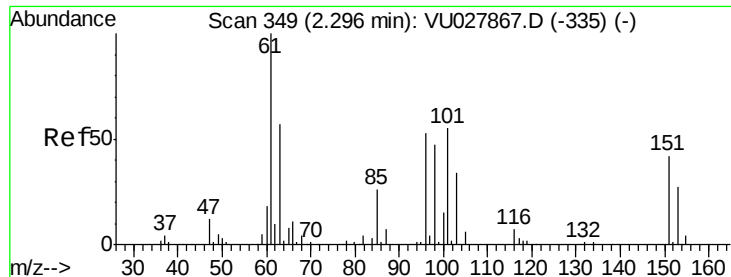
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 11/1/2018 11:15:48 AM



#9
 Trichlorofluoromethane
 Concen: 0.346 ug/L
 RT: 1.89 min Scan# 223
 Delta R.T. -0.00 min
 Lab File: VU027876.D
 Acq: 30 Oct 2018 16:20

Tgt Ion:101 Resp: 3621
 Ion Ratio Lower Upper
 101 100
 103 56.5 51.4 77.0





#10

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

Concen: 0.348 ug/L

RT: 2.29 min Scan# 348

Delta R.T. -0.00 min

Lab File: VU027876.D

Acq: 30 Oct 2018 16:20

Instrument :

MSVOA_U

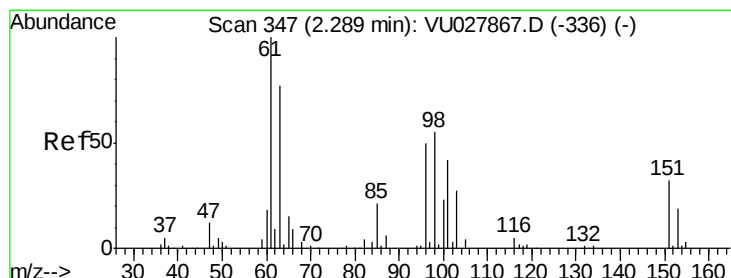
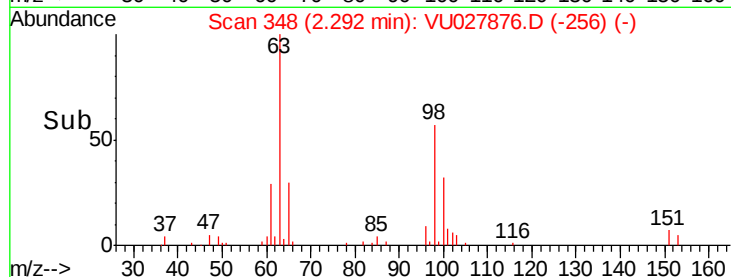
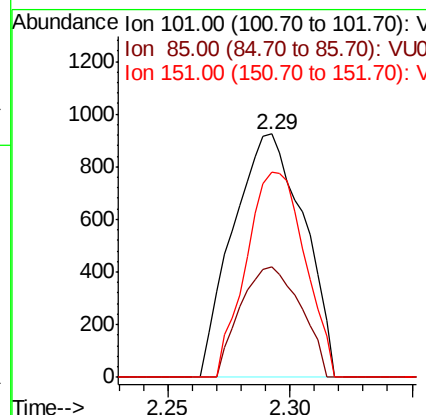
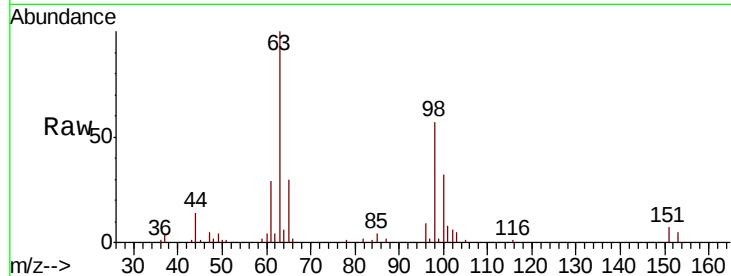
ClientSampled :

MDL05

Tot Ion:	101	Resp:	1859
Ion Ratio	Lower	Upper	
101	100		
85	38.9	37.1	55.7
151	69.7	59.9	89.9

Manual Integrations
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11/1/2018 11:15:48 AM



#12

1,1-Dichloroethene

Concen: 0.381 ug/L

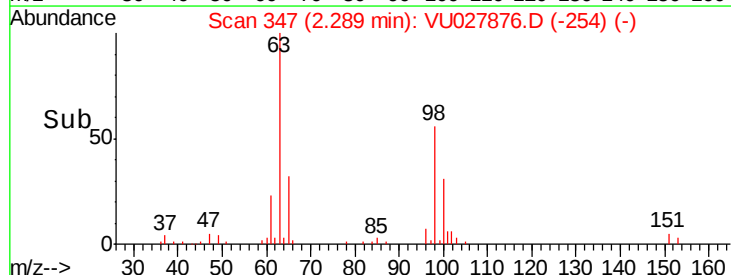
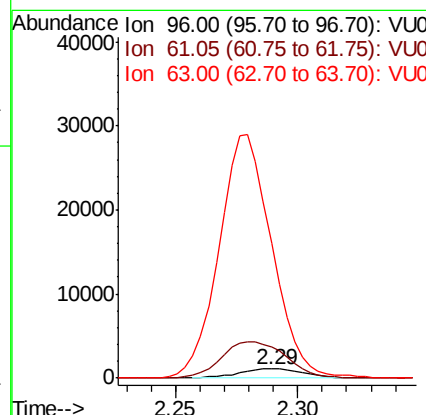
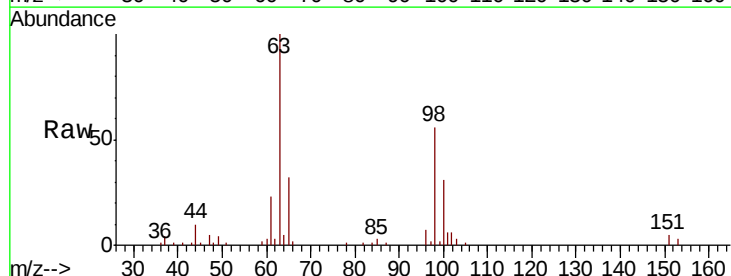
RT: 2.29 min Scan# 347

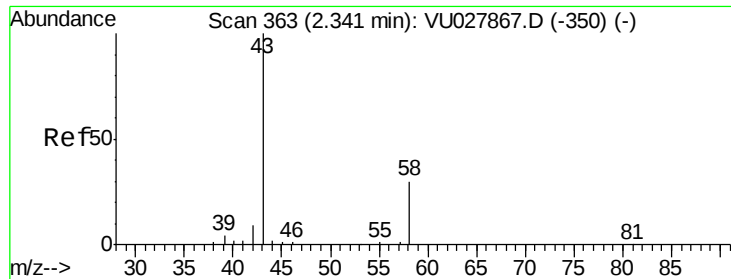
Delta R.T. -0.00 min

Lab File: VU027876.D

Acq: 30 Oct 2018 16:20

Tgt Ion:	96	Resp:	1919
Ion Ratio	Lower	Upper	
96	100		
61	341.5	141.1	262.1#
63	1453.4	113.0	209.9#





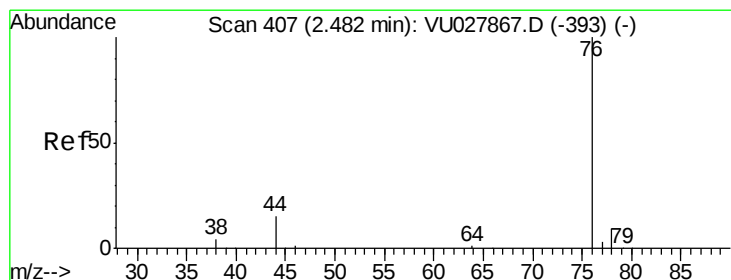
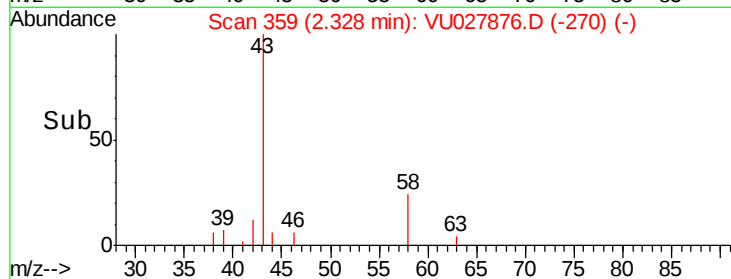
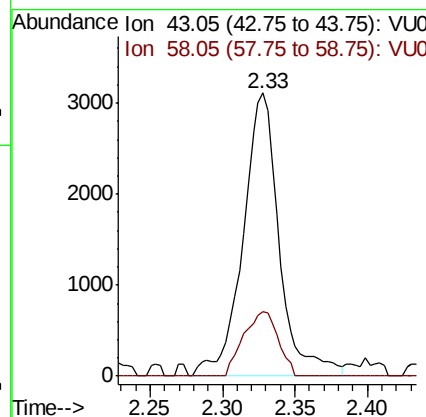
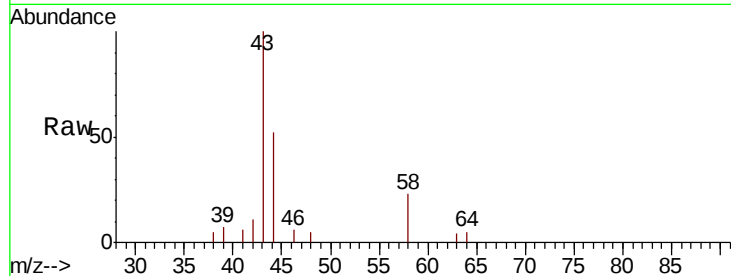
#13
Acetone
Concen: 4.553 ug/L
RT: 2.33 min Scan# 359
Delta R.T. -0.01 min
Lab File: VU027876.D
Acq: 30 Oct 2018 16:20

Instrument :
MSVOA_U
ClientSampleId :
MDL05

Tot Ion: 43 Resp: 5427
Ion Ratio Lower Upper
43 100
58 21.7 0.0 61.4

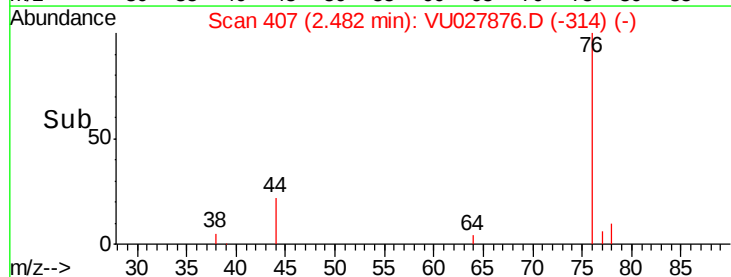
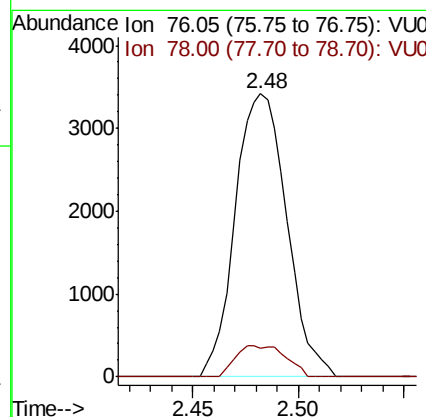
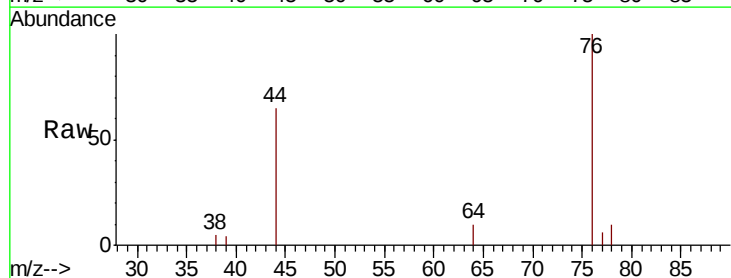
Manual Integrations
APPROVED

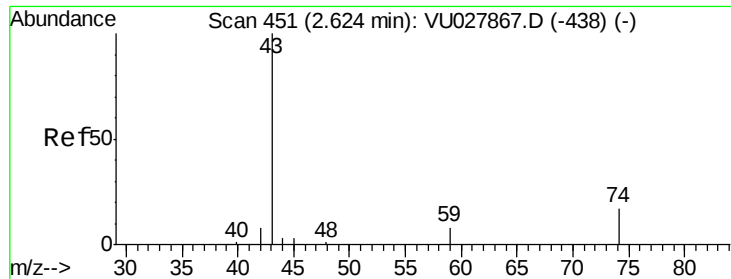
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11/1/2018 11:15:48 AM



#14
Carbon disulfide
Concen: 0.321 ug/L
RT: 2.48 min Scan# 407
Delta R.T. -0.00 min
Lab File: VU027876.D
Acq: 30 Oct 2018 16:20

Tgt Ion: 76 Resp: 5785
Ion Ratio Lower Upper
76 100
78 10.2 7.5 11.3





#15

Methyl Acetate

Concen: 0.426 ug/L

RT: 2.62 min Scan# 450

Delta R.T. -0.00 min

Lab File: VU027876.D

Acq: 30 Oct 2018 16:20

Instrument :

MSVOA_U

ClientSampled :

MDL05

Tot Ion: 43 Resp: 1359

Ion Ratio Lower Upper

43 100

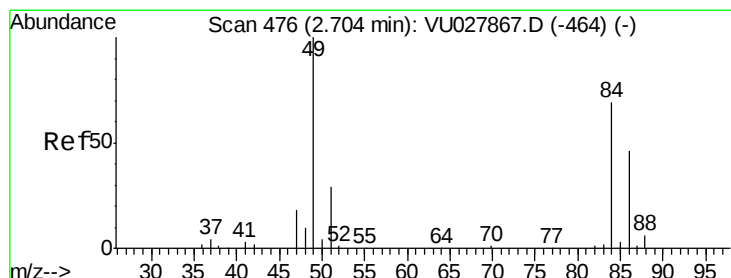
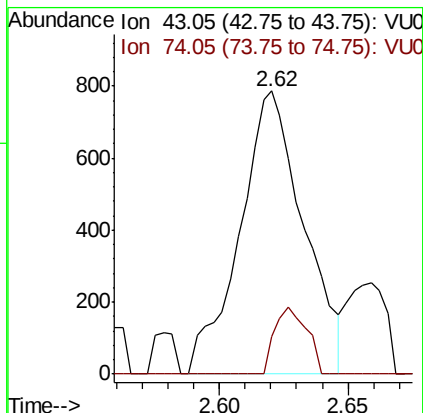
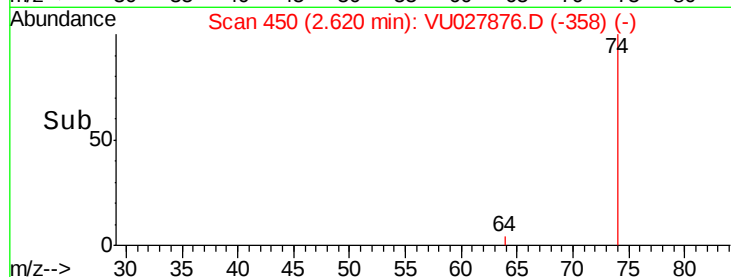
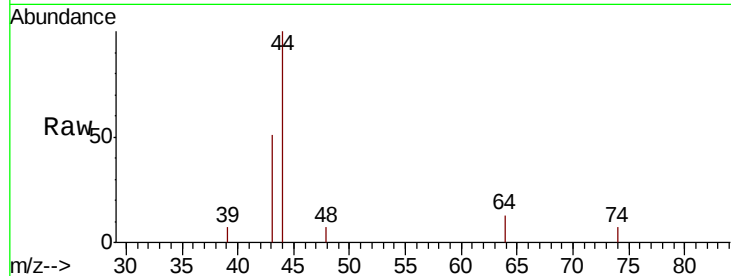
74 11.9 14.9 22.3#

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#16

Methylene chloride

Concen: 0.368 ug/L

RT: 2.71 min Scan# 477

Delta R.T. 0.00 min

Lab File: VU027876.D

Acq: 30 Oct 2018 16:20

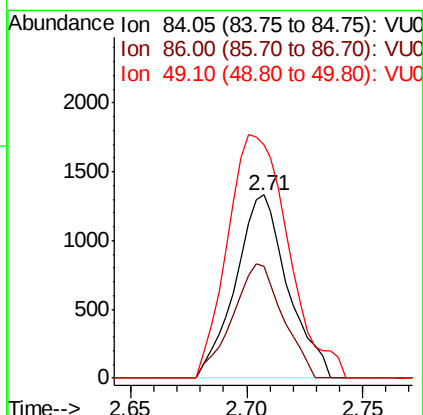
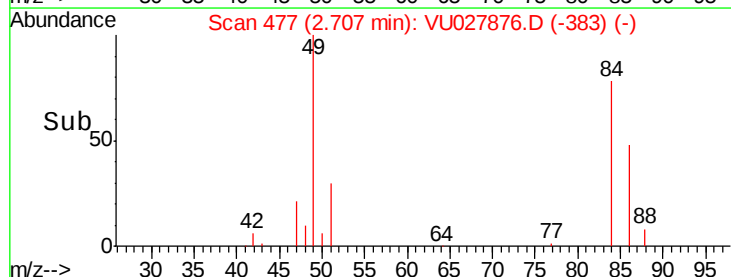
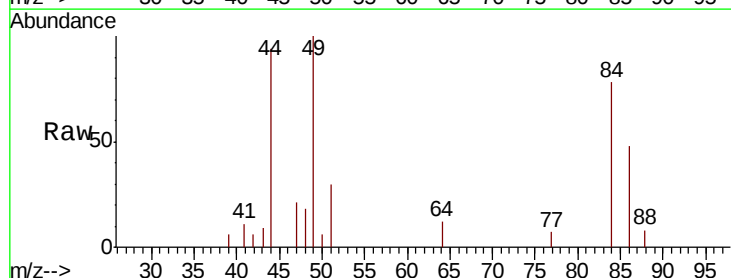
Tgt Ion: 84 Resp: 2081

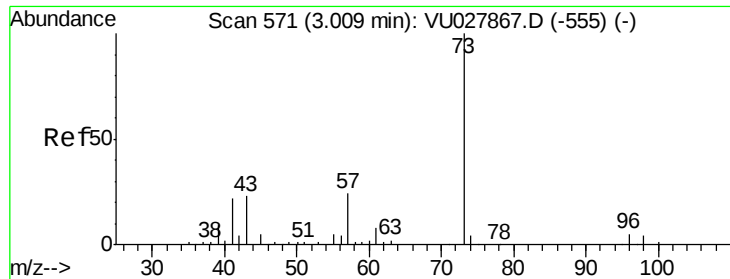
Ion Ratio Lower Upper

84 100

86 61.1 46.7 86.7

49 127.5 101.3 188.1





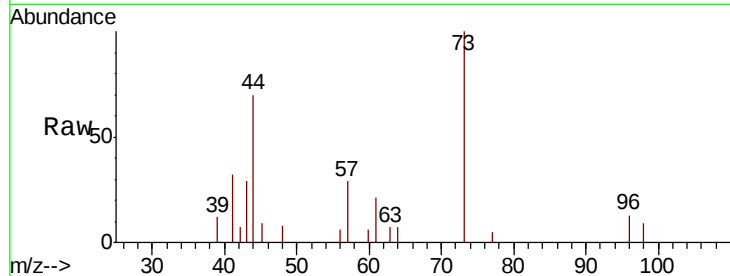
#17
Methvl tert-butvl Ether
Concen: 0.310 ug/L
RT: 3.01 min Scan# 570
Delta R.T. -0.00 min
Lab File: VU027876.D
Acq: 30 Oct 2018 16:20

Instrument :
MSVOA_U
ClientSampleId :
MDL05

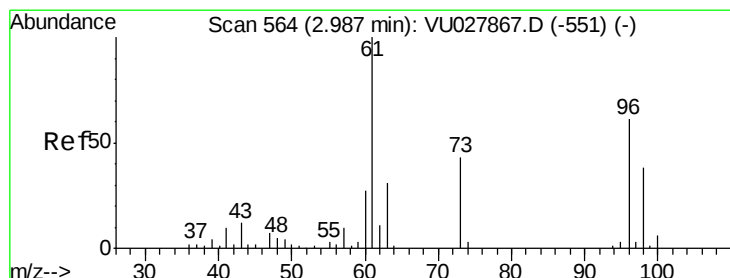
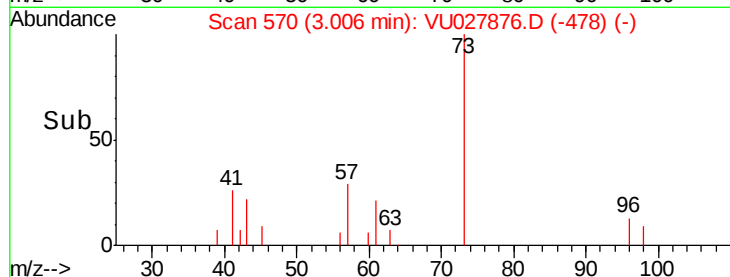
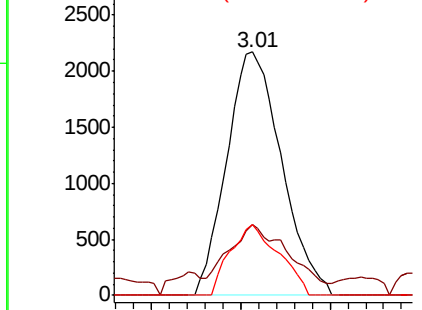
Tot Ion	Ratio	Lower	Upper
73	100		
43	33.2	18.7	28.1#
57	25.5	18.7	28.1

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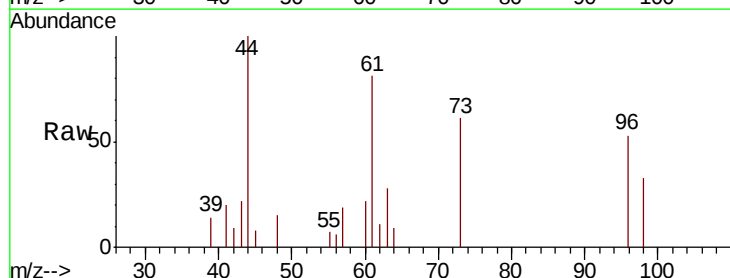


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

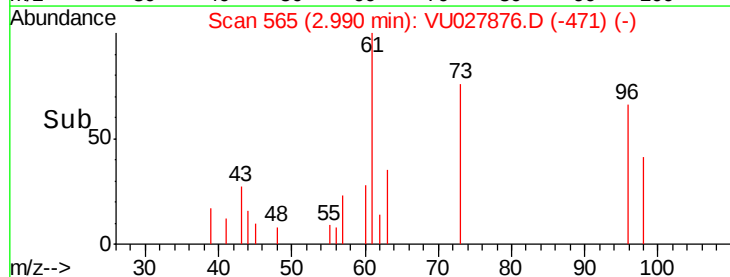
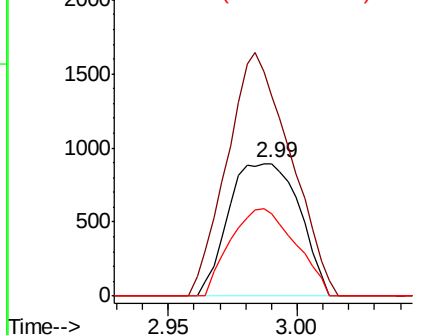


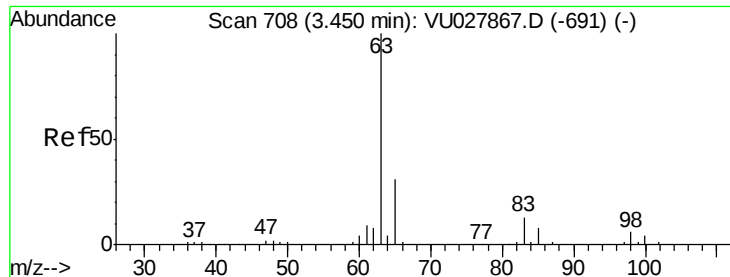
#18
trans-1,2-Dichloroethene
Concen: 0.319 ug/L
RT: 2.99 min Scan# 565
Delta R.T. 0.00 min
Lab File: VU027876.D
Acq: 30 Oct 2018 16:20

Tgt Ion	Ratio	Lower	Upper
96	100		
61	151.4	115.2	214.0
98	61.8	44.0	81.8



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0





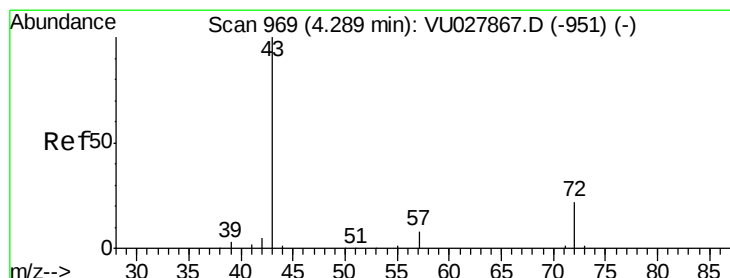
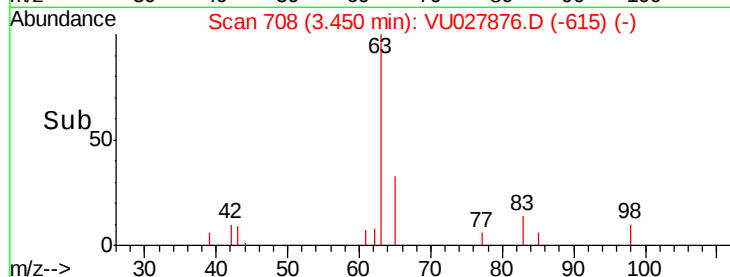
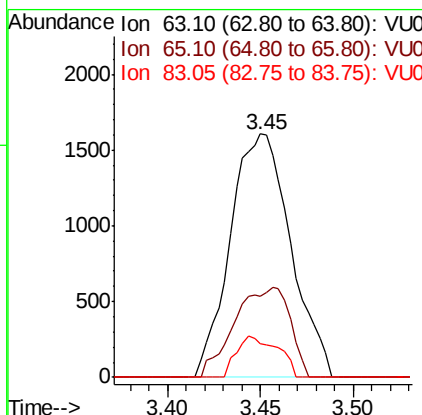
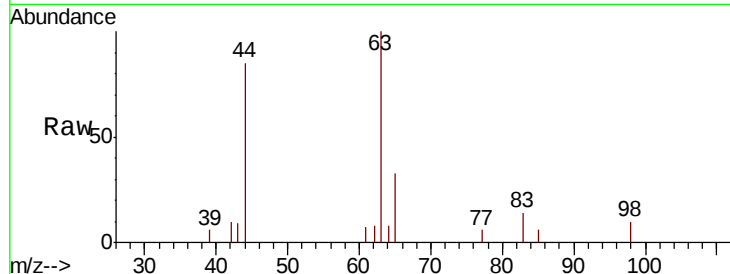
#19
 1,1-Dichloroethane
 Concen: 0.321 ug/L
 RT: 3.45 min Scan# 708
 Delta R.T. -0.00 min
 Lab File: VU027876.D
 Acq: 30 Oct 2018 16:20

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Tot Ion	Ratio	Lower	Upper
63	100		
65	33.3	21.8	40.4
83	14.0	9.4	17.4

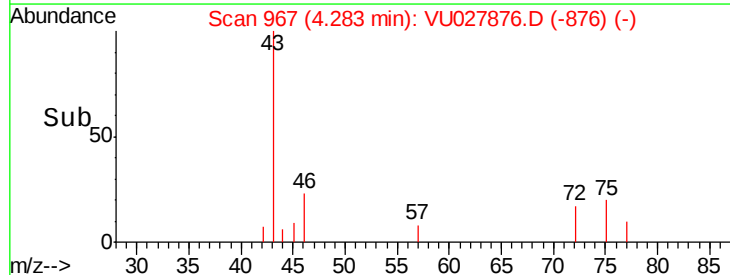
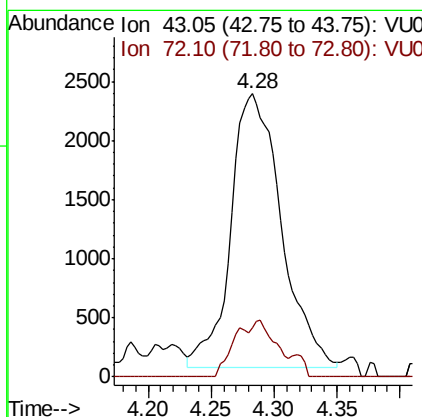
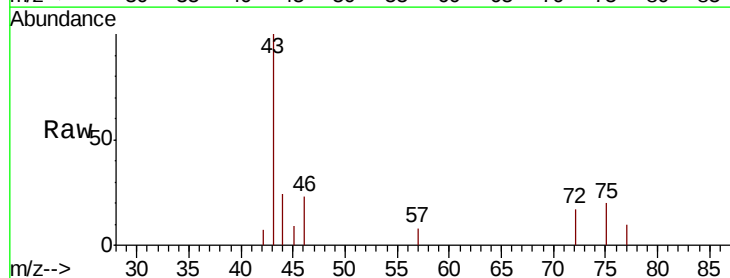
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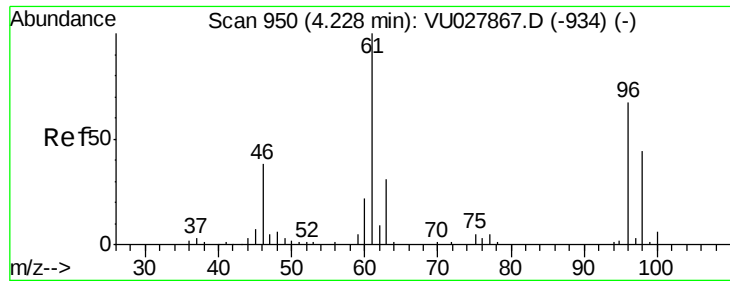
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#21
 2-Butanone
 Concen: 3.124 ug/L m
 RT: 4.28 min Scan# 967
 Delta R.T. -0.01 min
 Lab File: VU027876.D
 Acq: 30 Oct 2018 16:20

Tgt Ion	Ratio	Lower	Upper
43	100		
72	16.5	10.9	32.9





#22

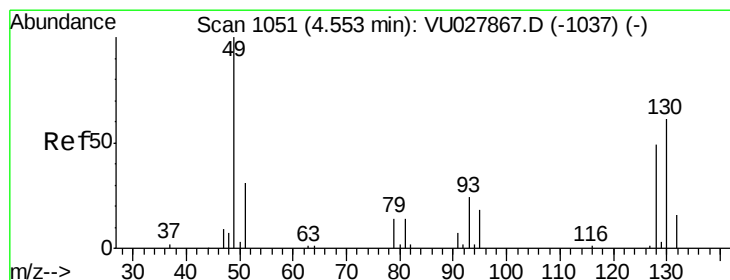
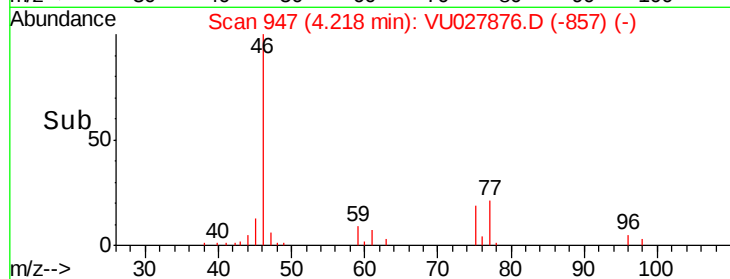
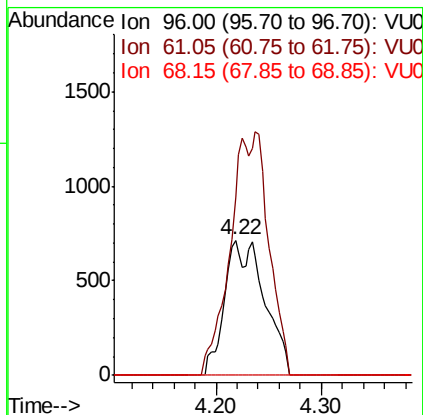
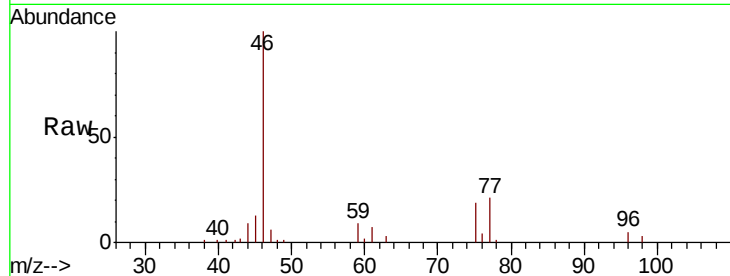
cis-1,2-Dichloroethene
 Concen: 0.303 ug/L m
 RT: 4.22 min Scan# 947
 Delta R.T. -0.01 min
 Lab File: VU027876.D
 Acq: 30 Oct 2018 16:20

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Tot Ion	Ratio	Lower	Upper
96	100		
61	131.7	104.0	193.2
68	0.0	0.0	0.0

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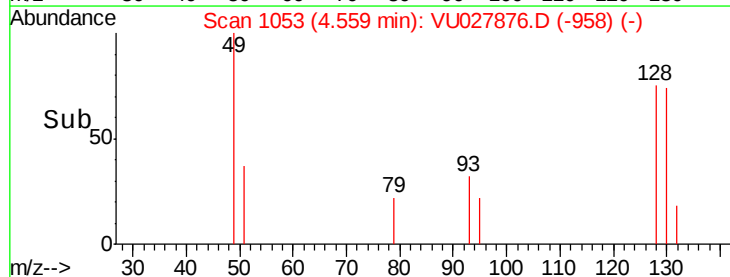
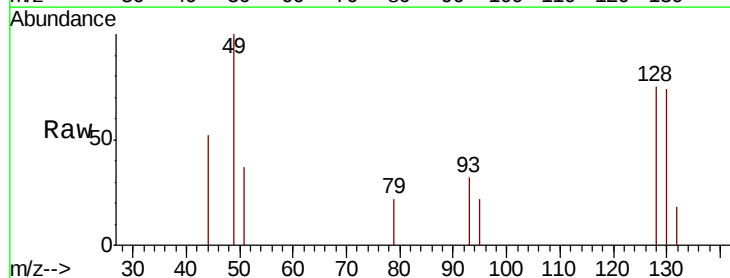
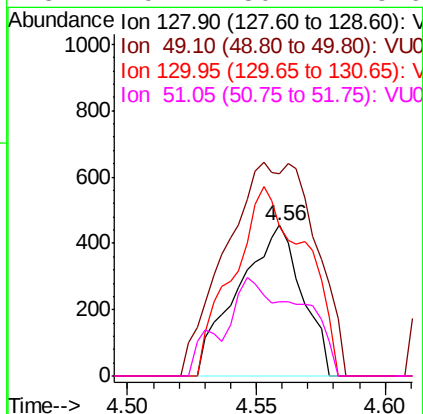
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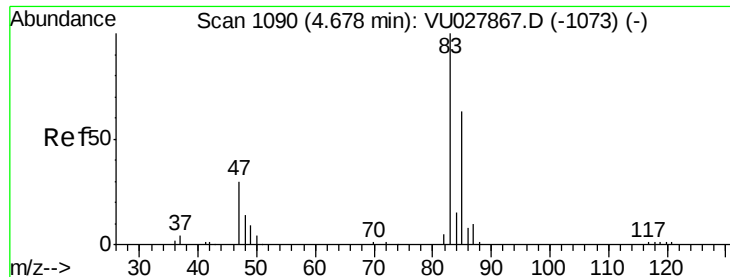


#23

Bromochloromethane
 Concen: 0.306 ug/L
 RT: 4.56 min Scan# 1053
 Delta R.T. 0.01 min
 Lab File: VU027876.D
 Acq: 30 Oct 2018 16:20

Tgt Ion	Ratio	Lower	Upper
128	100		
49	134.1	142.0	263.8#
130	99.3	86.1	159.9
51	49.7	50.4	75.6#





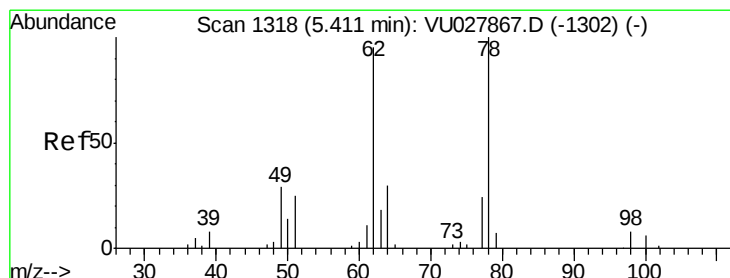
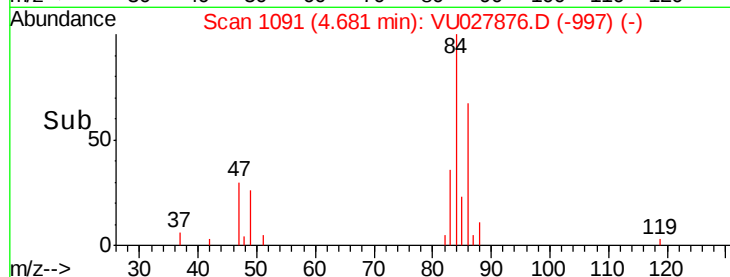
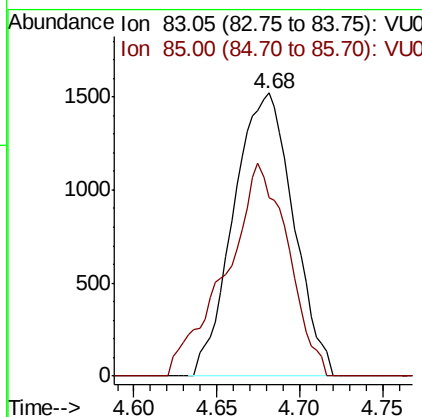
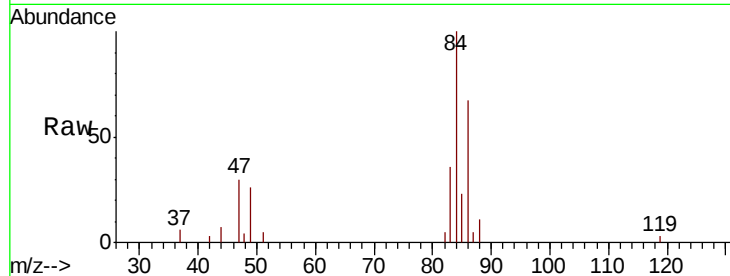
#25
Chloroform
Concen: 0.332 ug/L
RT: 4.68 min Scan# 1091
Delta R.T. 0.00 min
Lab File: VU027876.D
Acq: 30 Oct 2018 16:20

Instrument :
MSVOA_U
ClientSampled :
MDL05

Tot Ion: 83 Resp: 3808
Ion Ratio Lower Upper
83 100
85 63.0 44.0 81.8

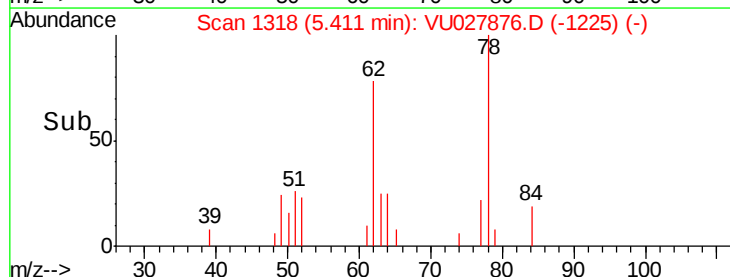
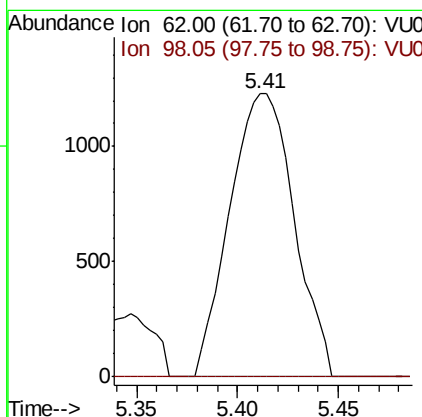
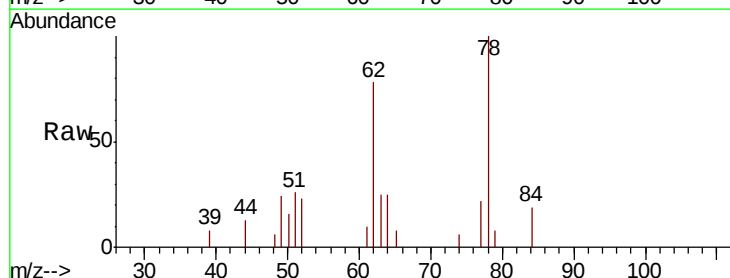
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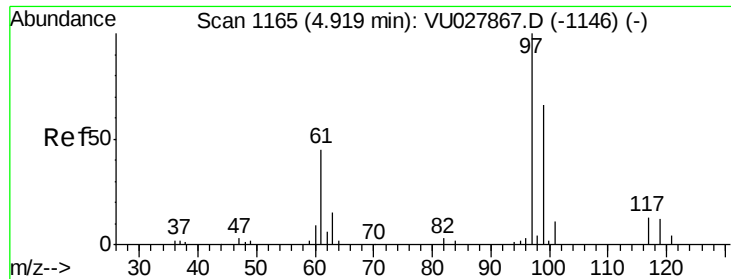
MMDadoda
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#27
1,2-Dichloroethane
Concen: 0.342 ug/L
RT: 5.41 min Scan# 1318
Delta R.T. -0.00 min
Lab File: VU027876.D
Acq: 30 Oct 2018 16:20

Tgt Ion: 62 Resp: 2739
Ion Ratio Lower Upper
62 100
98 0.0 6.3 9.5#





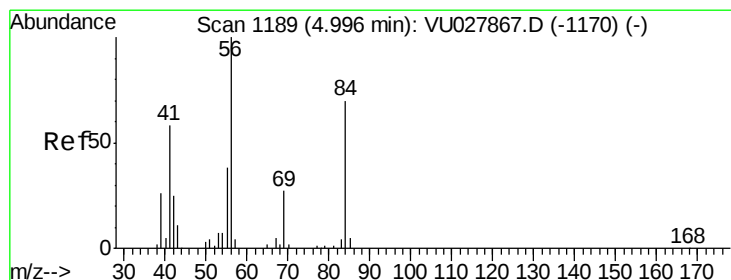
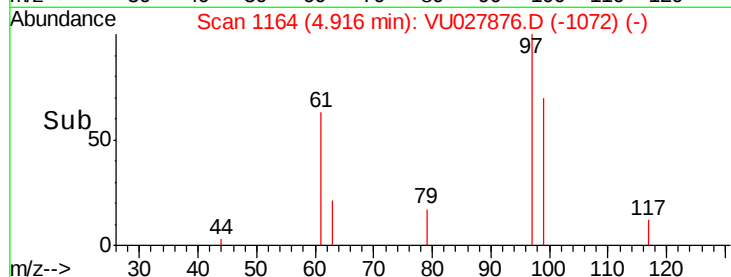
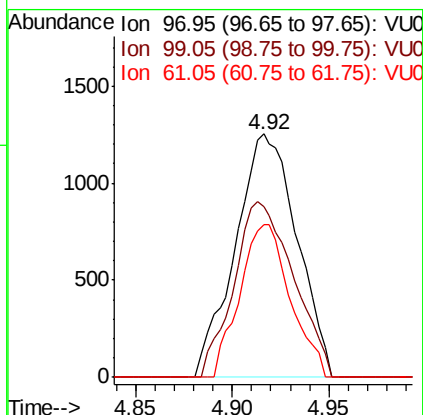
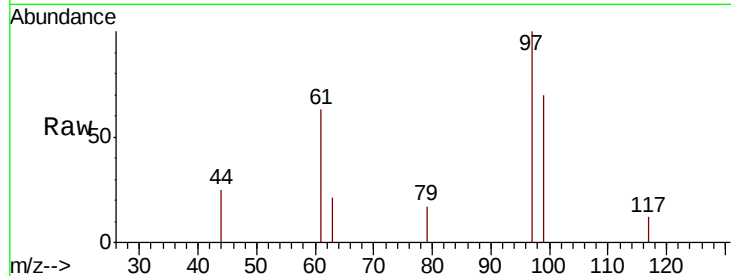
#29
 1,1,1-Trichloroethane
 Concen: 0.277 ug/L
 RT: 4.92 min Scan# 1164
 Delta R.T. -0.00 min
 Lab File: VU027876.D
 Acq: 30 Oct 2018 16:20

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Tot Ion	Ratio	Lower	Upper
97	100		
99	69.5	50.6	76.0
61	51.4	35.8	53.6

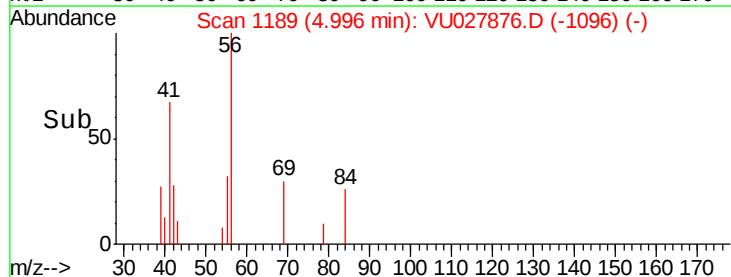
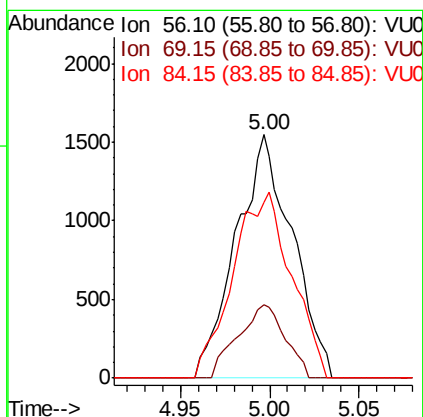
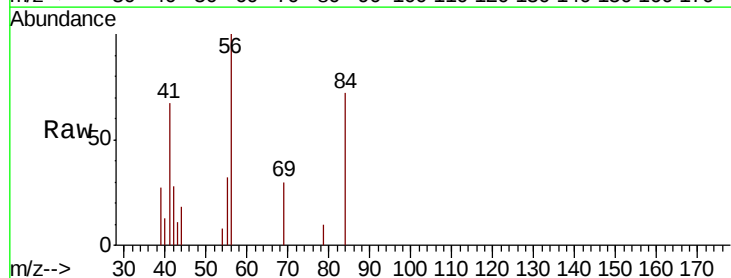
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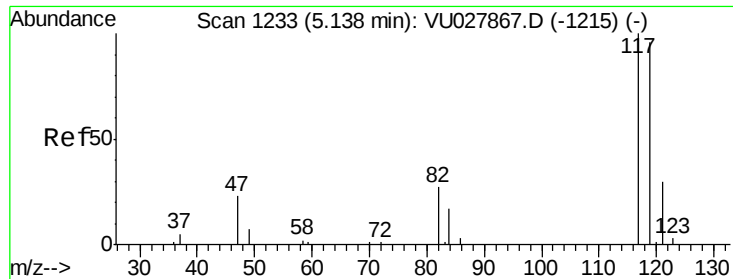
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#30
 Cyclohexane
 Concen: 0.287 ug/L
 RT: 5.00 min Scan# 1189
 Delta R.T. -0.00 min
 Lab File: VU027876.D
 Acq: 30 Oct 2018 16:20

Tgt Ion	Ratio	Lower	Upper
56	100		
69	25.4	22.7	34.1
84	79.8	58.1	87.1





#31

Carbon tetrachloride

Concen: 0.309 ug/L

RT: 5.13 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VU027876.D

Acq: 30 Oct 2018 16:20

Instrument :

MSVOA_U

ClientSampleId :

MDL05

Tot Ion:117 Resp: 2664

Ion Ratio Lower Upper

117 100

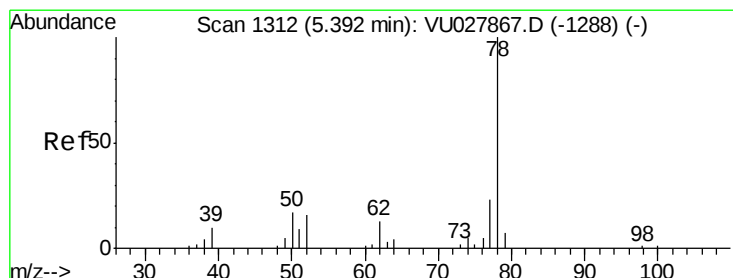
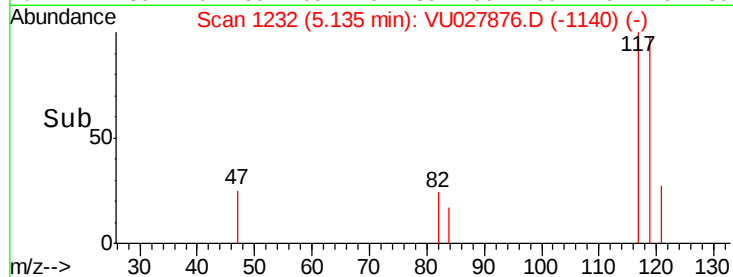
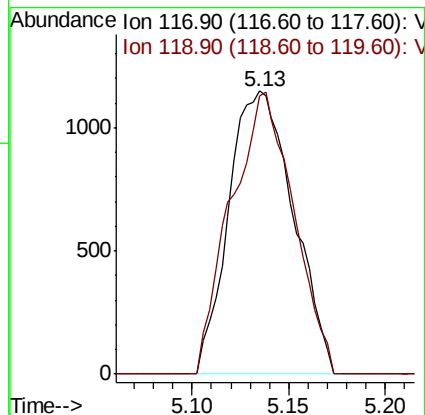
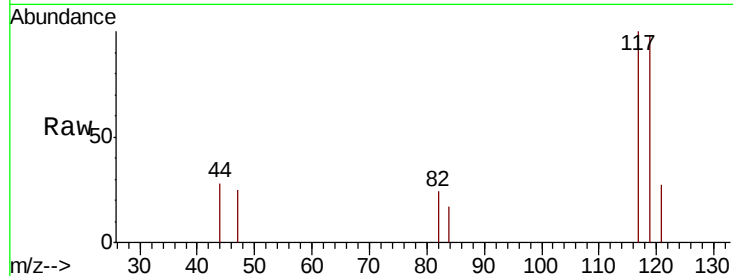
119 97.1 77.1 115.7

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#33

Benzene

Concen: 0.310 ug/L

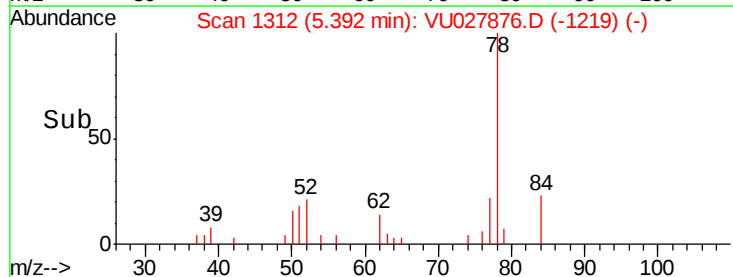
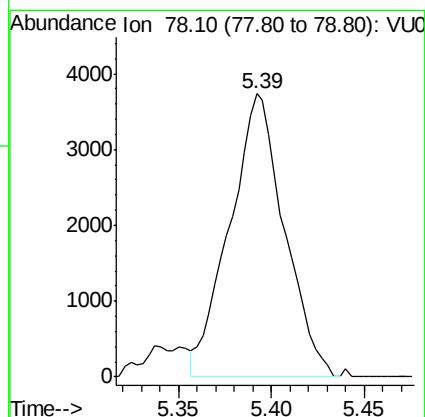
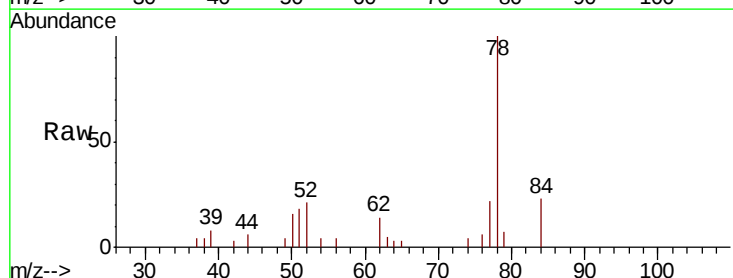
RT: 5.39 min Scan# 1312

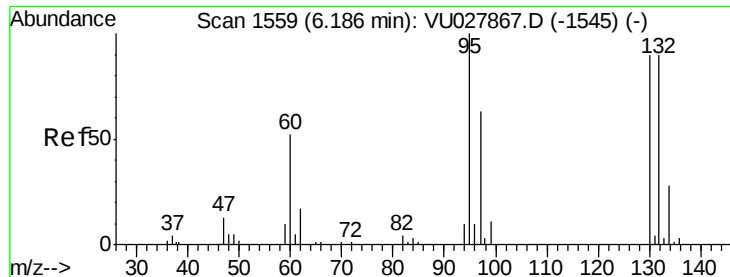
Delta R.T. -0.00 min

Lab File: VU027876.D

Acq: 30 Oct 2018 16:20

Tgt Ion: 78 Resp: 7646





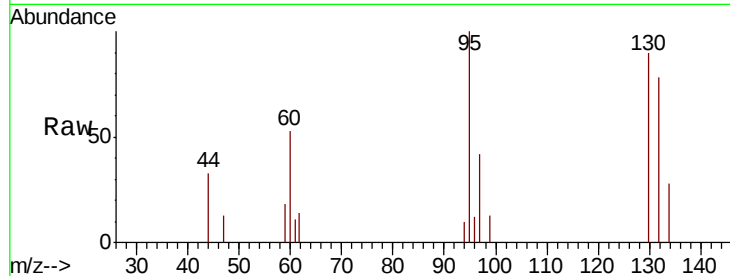
#34
 Trichloroethene
 Concen: 0.291 ug/L
 RT: 6.19 min Scan# 1561
 Delta R.T. 0.01 min
 Lab File: VU027876.D
 Acq: 30 Oct 2018 16:20

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

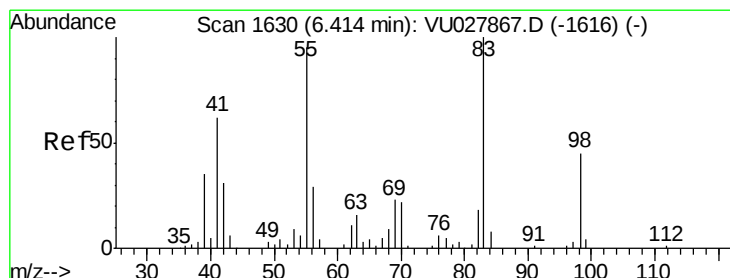
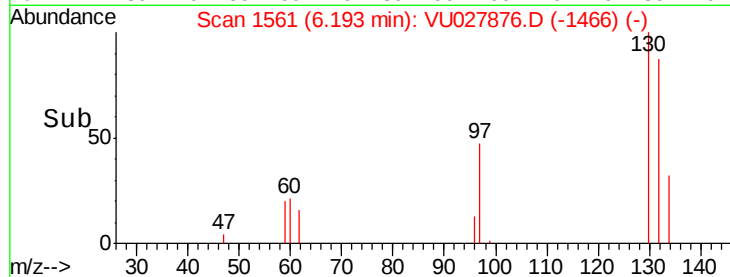
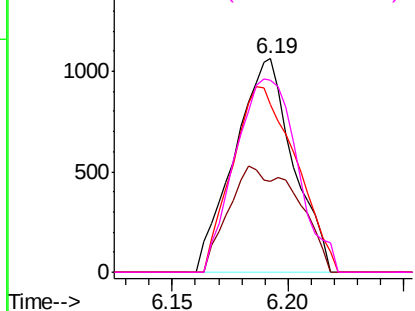
Tot Ion: 95 Resp: 1872
 Ion Ratio Lower Upper
 95 100
 97 42.3 44.0 81.6#
 132 78.4 63.3 117.5
 130 89.7 63.1 117.3

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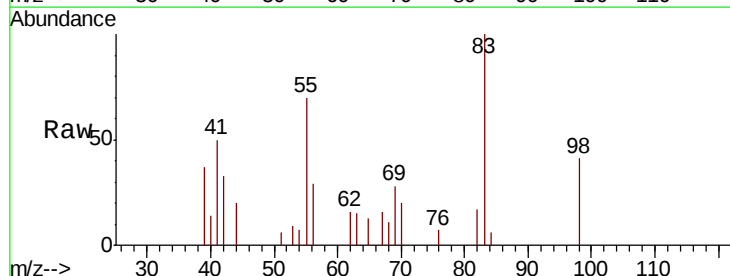


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

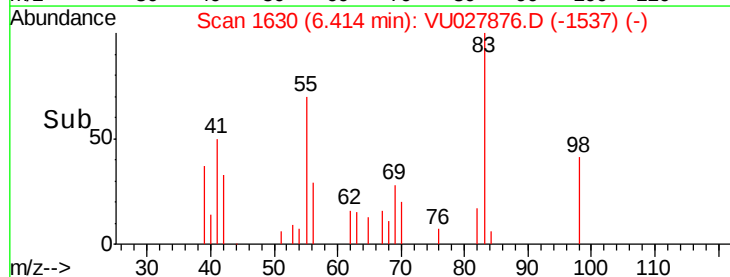
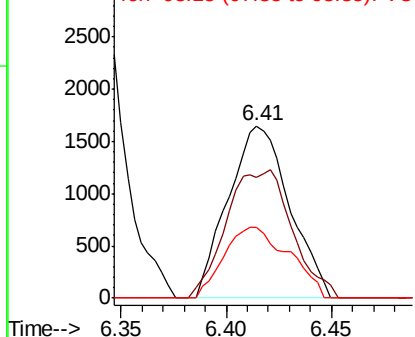


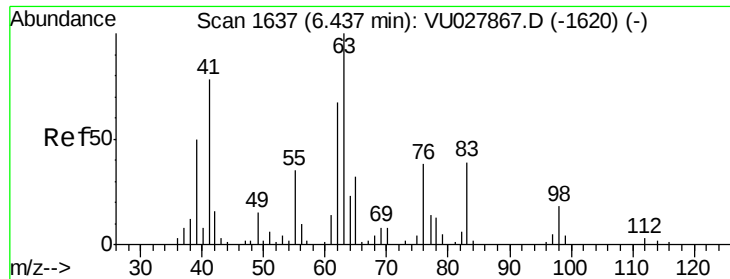
#35
 Methylcyclohexane
 Concen: 0.305 ug/L
 RT: 6.41 min Scan# 1630
 Delta R.T. -0.00 min
 Lab File: VU027876.D
 Acq: 30 Oct 2018 16:20

Tgt Ion: 83 Resp: 3333
 Ion Ratio Lower Upper
 83 100
 55 79.8 73.4 110.0
 98 43.5 35.3 52.9



Abundance Ion 83.15 (82.85 to 83.85): VU0
 Ion 55.10 (54.80 to 55.80): VU0
 Ion 98.15 (97.85 to 98.85): VU0





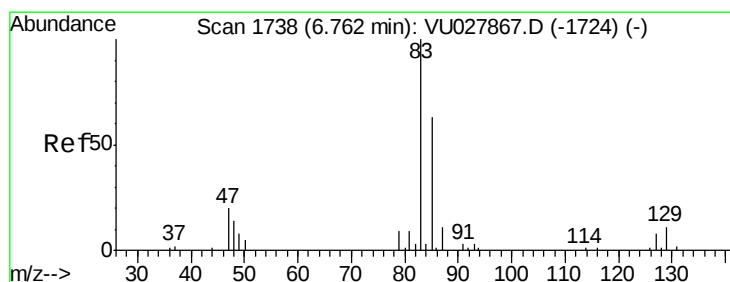
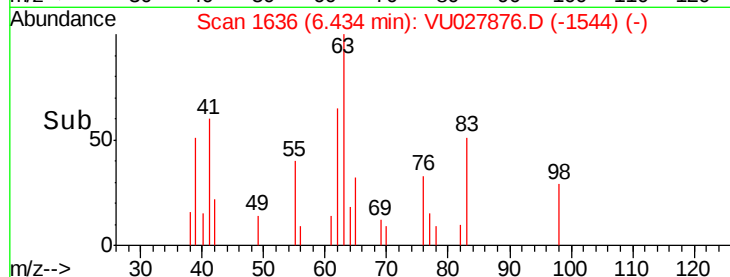
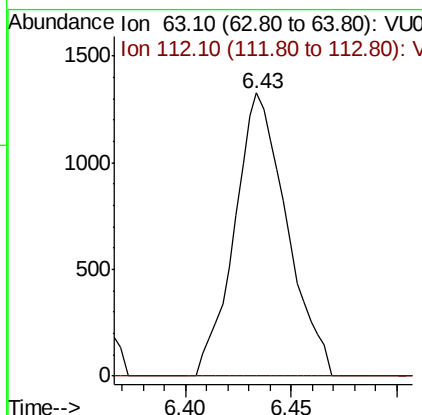
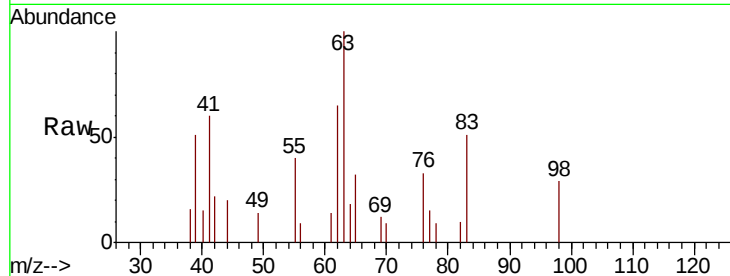
#37
 1,2-Dichloropropane
 Concen: 0.324 ug/L
 RT: 6.43 min Scan# 1636
 Delta R.T. -0.00 min
 Lab File: VU027876.D
 Acq: 30 Oct 2018 16:20

Instrument :
 MSVOA_U
 ClientSampled :
 MDL05

Tot Ion: 63 Resp: 2278
 Ion Ratio Lower Upper
 63 100
 112 0.0 2.6 3.8#

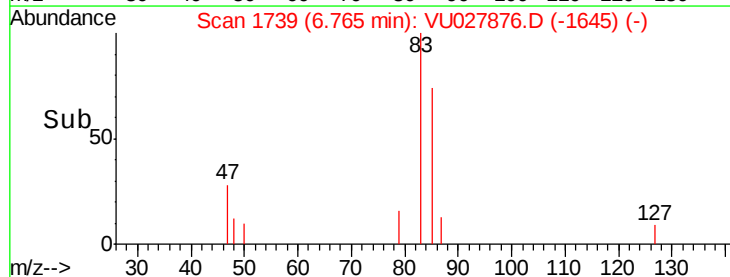
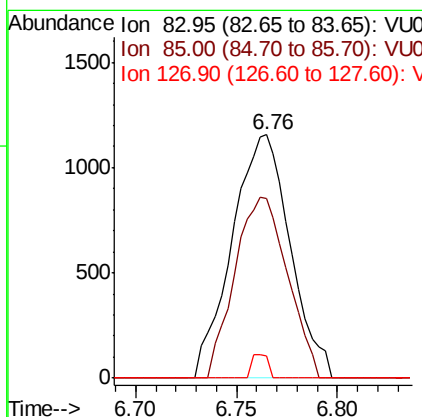
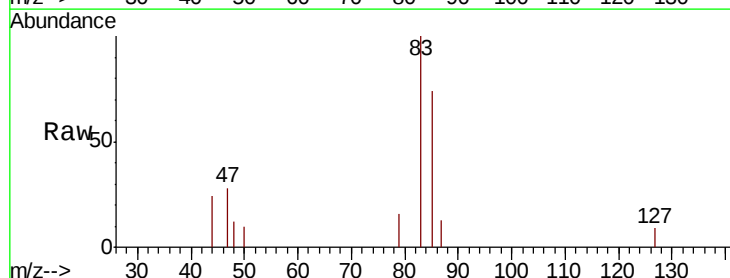
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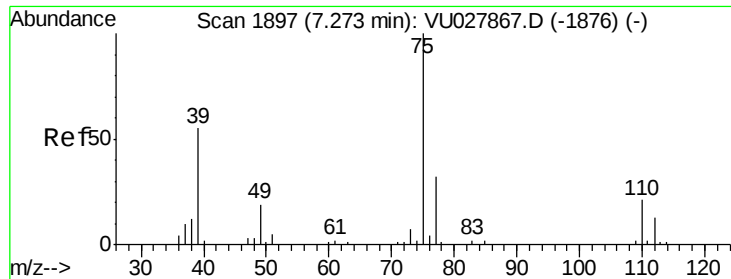
MMDadoda
 11/1/2018 11:15:48 AM



#38
 Bromodichloromethane
 Concen: 0.283 ug/L
 RT: 6.76 min Scan# 1739
 Delta R.T. 0.00 min
 Lab File: VU027876.D
 Acq: 30 Oct 2018 16:20

Tgt Ion: 83 Resp: 2328
 Ion Ratio Lower Upper
 83 100
 85 74.0 43.8 81.4
 127 8.9 6.4 9.6





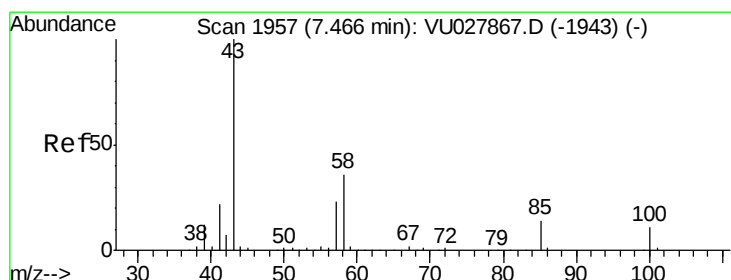
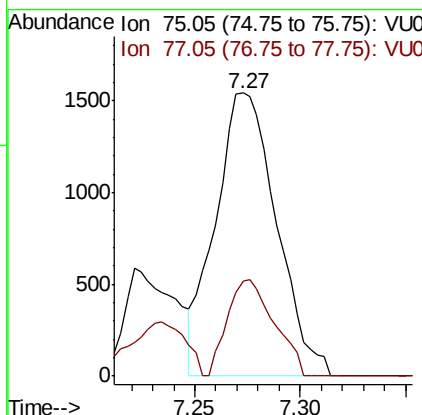
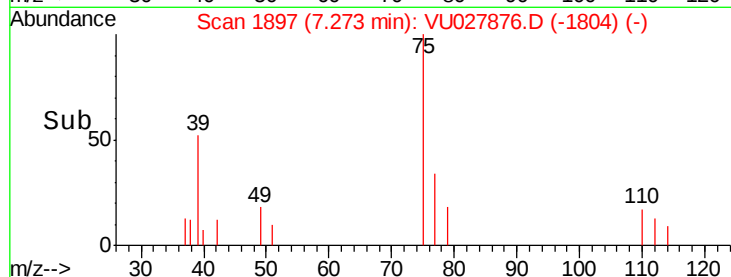
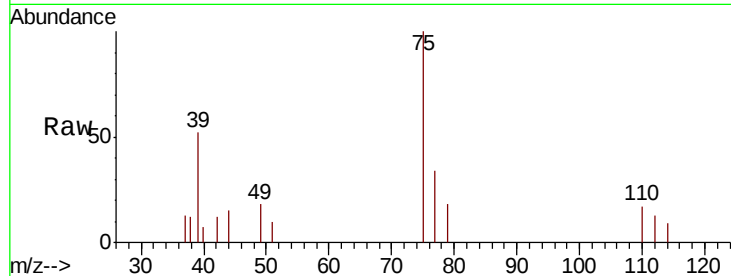
#39
 cis-1,3-Dichloropropene
 Concen: 0.308 ug/L
 RT: 7.27 min Scan# 1897
 Delta R.T. -0.00 min
 Lab File: VU027876.D
 Acq: 30 Oct 2018 16:20

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Tot Ion: 75 Resp: 3108
 Ion Ratio Lower Upper
 75 100
 77 33.7 22.2 41.2

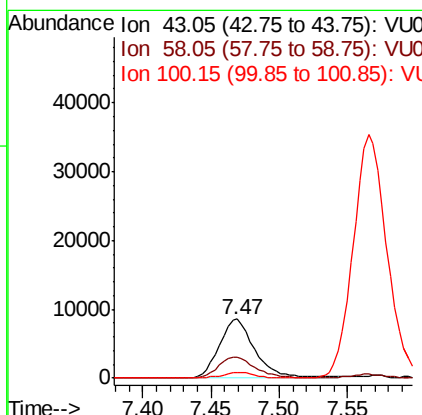
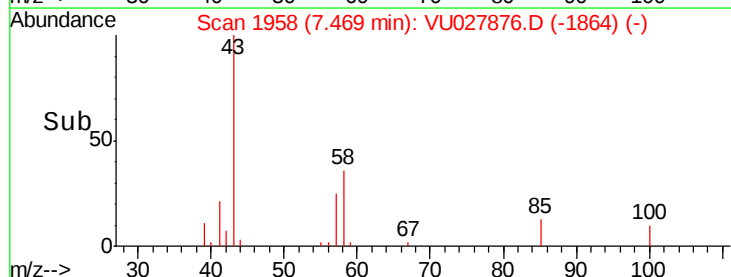
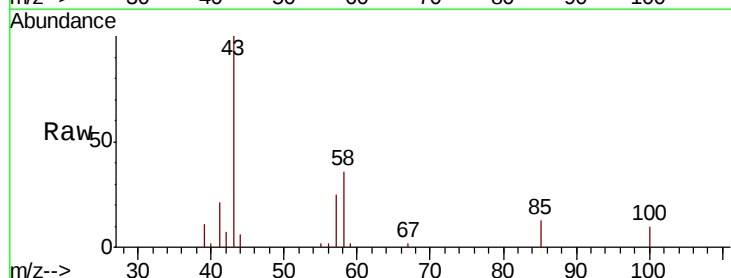
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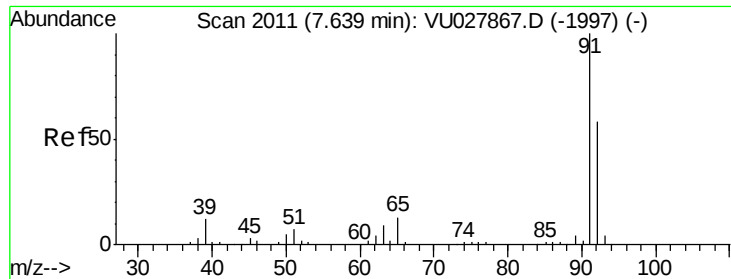
MMDadoda
 11/1/2018 11:15:48 AM



#40
 4-Methyl-2-pentanone
 Concen: 3.145 ug/L
 RT: 7.47 min Scan# 1958
 Delta R.T. 0.00 min
 Lab File: VU027876.D
 Acq: 30 Oct 2018 16:20

Tgt Ion: 43 Resp: 15628
 Ion Ratio Lower Upper
 43 100
 58 36.6 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: VU027876.D

Acq: 30 Oct 2018 16:20

Instrument :

MSVOA_U

ClientSampleId :

MDL05

Tot Ion: 91 Resp: 8054

Ion Ratio Lower Upper

91 100

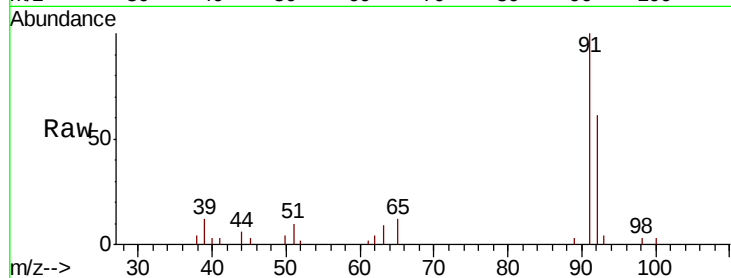
92 60.6 40.3 74.9

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Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0

7.64

5000

4000

3000

2000

1000

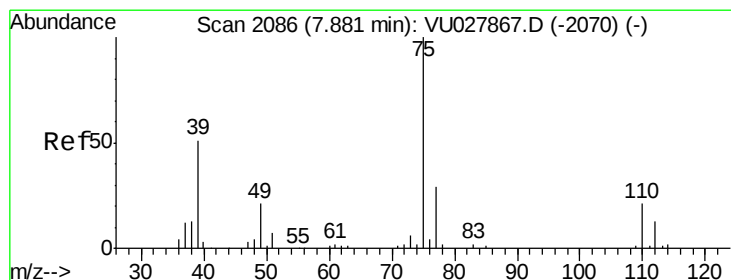
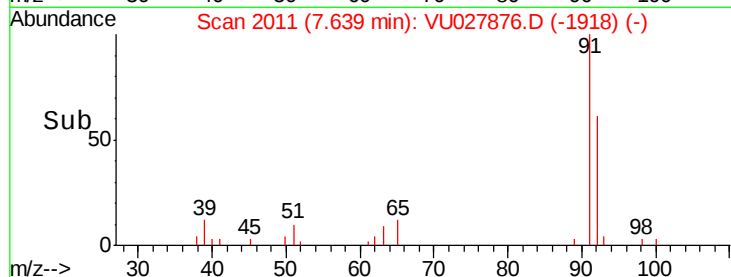
0

7.60

7.65

7.70

Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.304 ug/L

RT: 7.88 min Scan# 2087

Delta R.T. 0.00 min

Lab File: VU027876.D

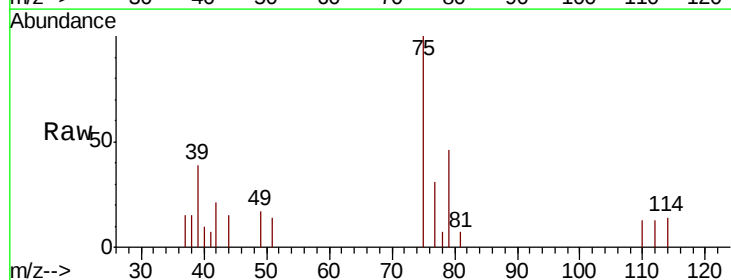
Acq: 30 Oct 2018 16:20

Tgt Ion: 75 Resp: 2632

Ion Ratio Lower Upper

75 100

77 31.2 20.5 38.1



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

7.88

1500

1000

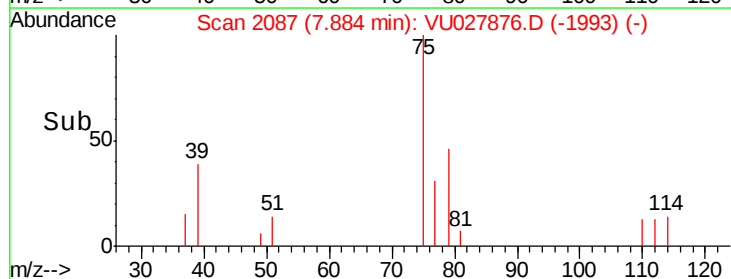
500

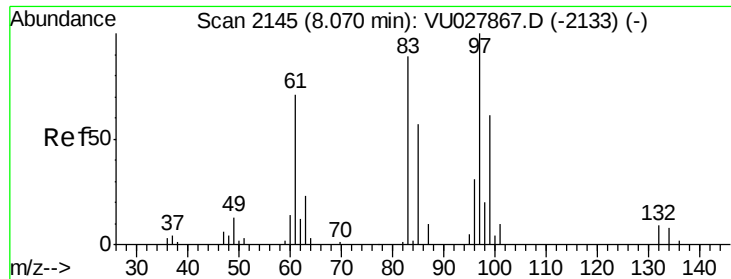
0

7.85

7.90

Time-->





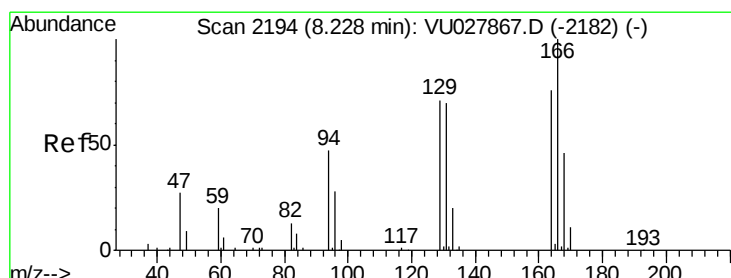
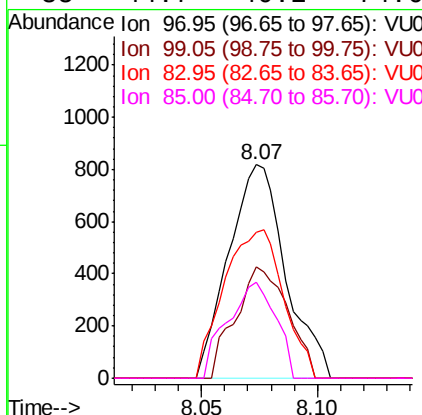
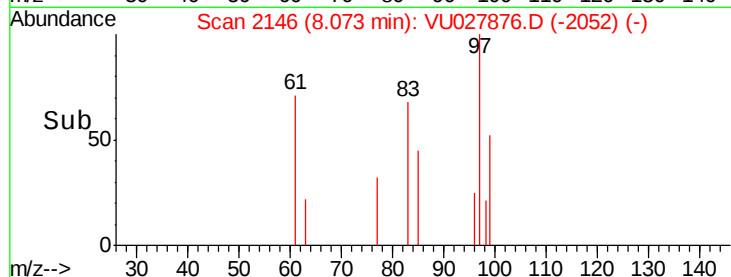
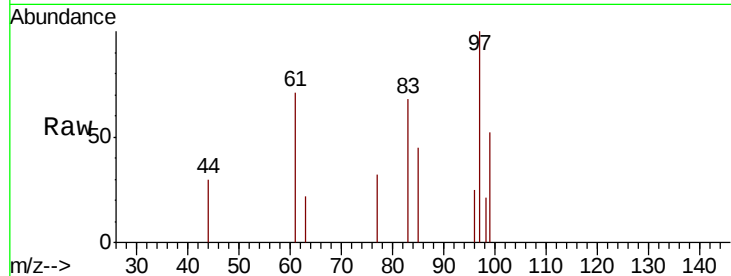
#45
1,1,2-Trichloroethane
Concen: 0.323 ug/L
RT: 8.07 min Scan# 2146
Delta R.T. 0.00 min
Lab File: VU027876.D
Acq: 30 Oct 2018 16:20

Instrument :
MSVOA_U
ClientSampled :
MDL05

Tot Ion:	97	Resp:	1399
Ion	Ratio	Lower	Upper
97	100		
99	52.4	42.9	79.7
83	68.4	62.2	115.6
85	44.7	40.2	74.6

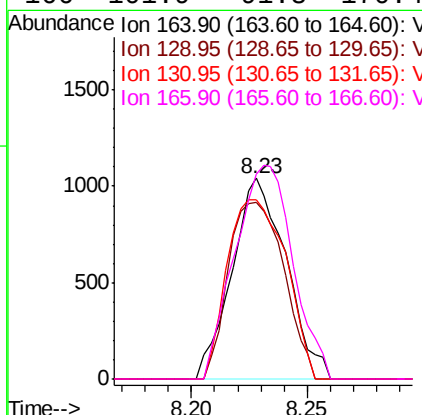
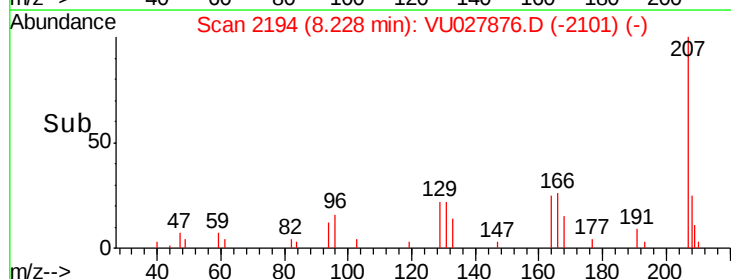
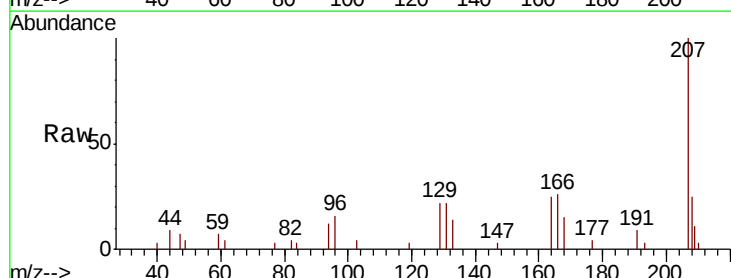
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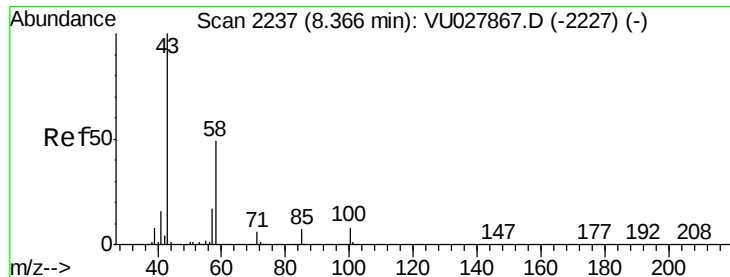
MMDadoda
11/1/2018 11:15:48 AM



#47
Tetrachloroethene
Concen: 0.341 ug/L
RT: 8.23 min Scan# 2194
Delta R.T. -0.00 min
Lab File: VU027876.D
Acq: 30 Oct 2018 16:20

Tgt Ion:	164	Resp:	1684
Ion	Ratio	Lower	Upper
164	100		
129	88.1	64.9	120.5
131	89.3	64.3	119.5
166	101.9	91.8	170.4





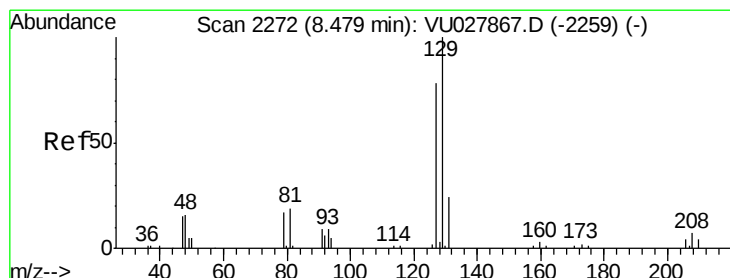
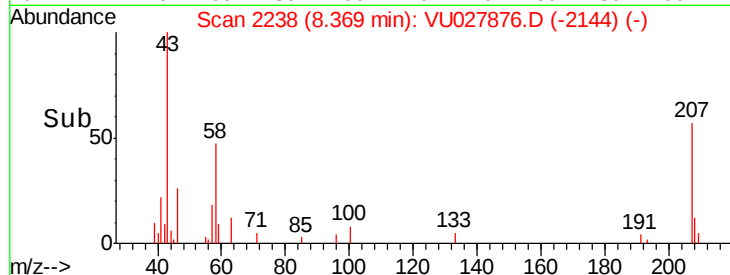
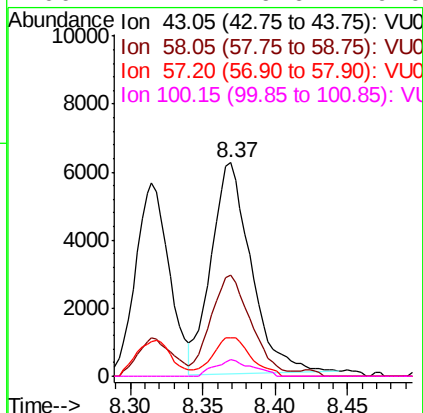
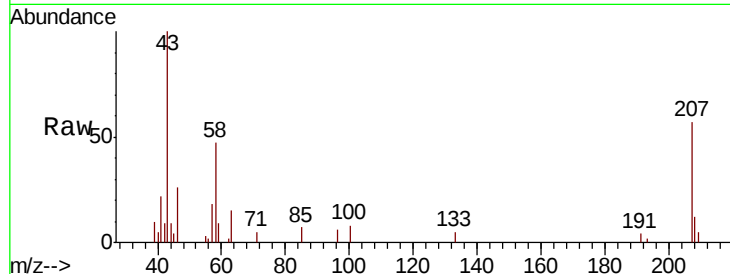
#48
2-Hexanone
Concen: 3.299 ug/L
RT: 8.37 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VU027876.D
Acq: 30 Oct 2018 16:20

Instrument :
MSVOA_U
ClientSampleId :
MDL05

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.8	38.9	58.3
57	17.5	13.3	19.9
100	7.4	6.6	10.0

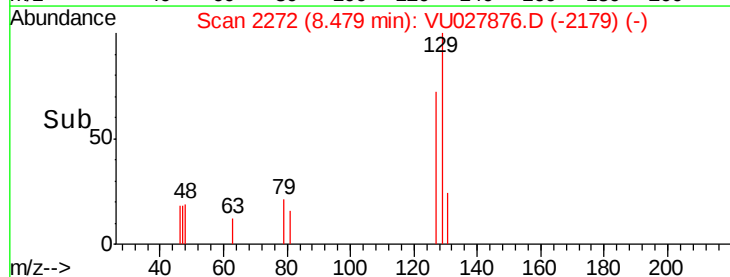
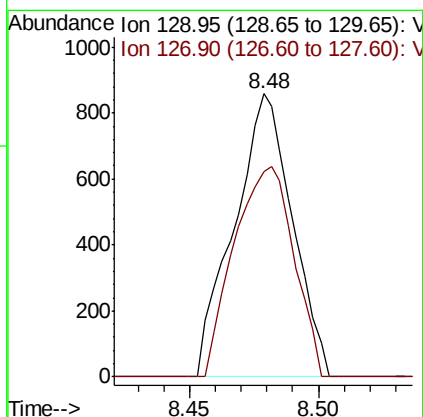
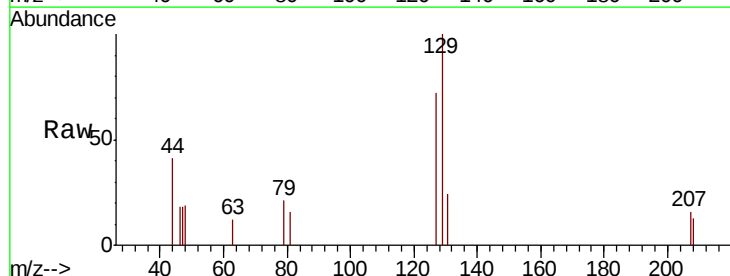
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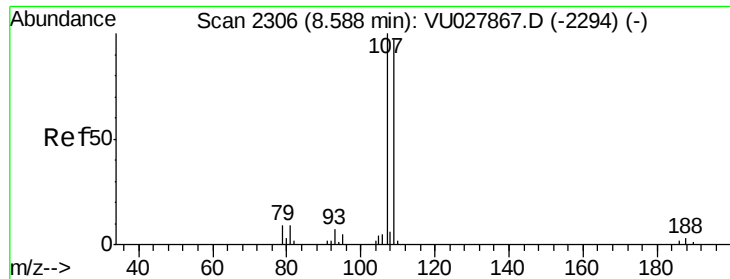
MMDadoda
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#49
Dibromochloromethane
Concen: 0.258 ug/L
RT: 8.48 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VU027876.D
Acq: 30 Oct 2018 16:20

Tgt Ion	Ratio	Lower	Upper
129	100		
127	72.5	54.5	101.1





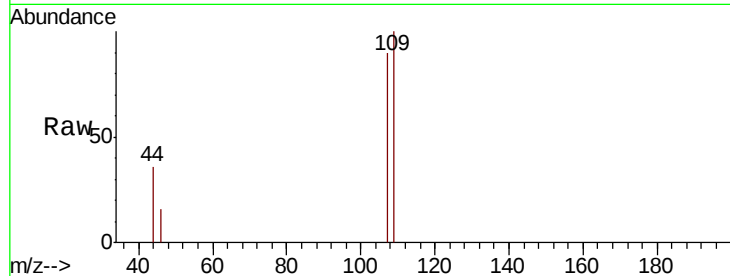
#50
1,2-Dibromoethane
Concen: 0.315 ug/L
RT: 8.59 min Scan# 2306
Delta R.T. -0.00 min
Lab File: VU027876.D
Acq: 30 Oct 2018 16:20

Instrument :
MSVOA_U
ClientSampleId :
MDL05

Tot Ion	Ratio	Lower	Upper
107	100		
109	110.8	68.0	126.4
188	0.0	2.7	4.1#

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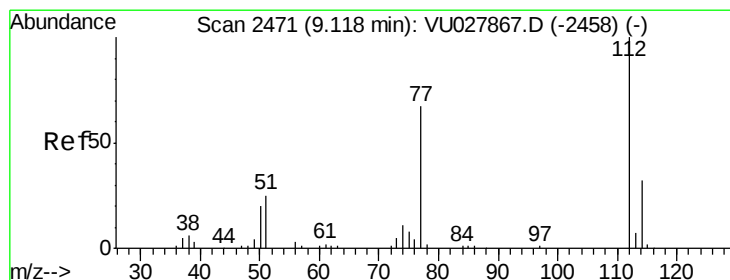
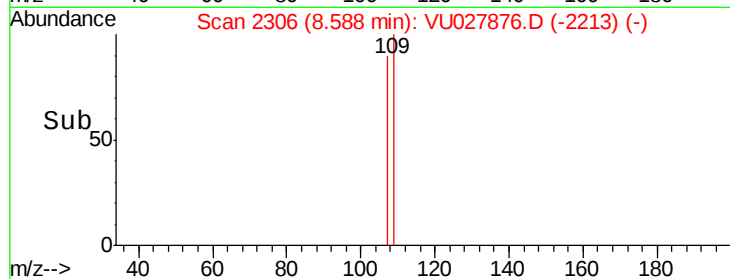
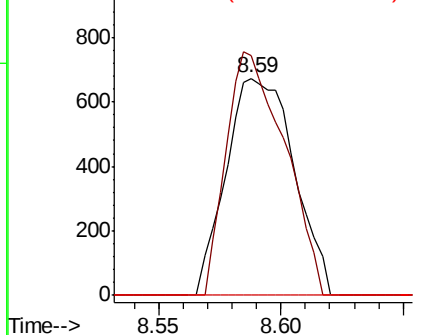


Abundance

Ion 106.95 (106.65 to 107.65): V

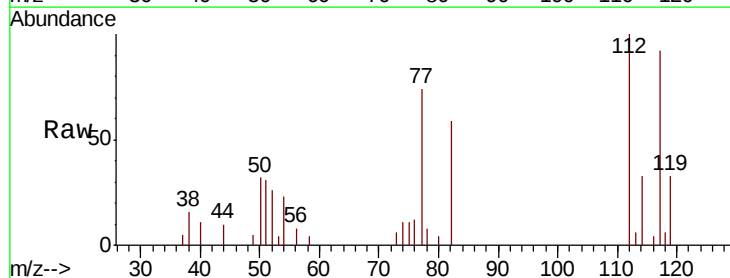
Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51
Chlorobenzene
Concen: 0.320 ug/L
RT: 9.12 min Scan# 2471
Delta R.T. -0.00 min
Lab File: VU027876.D
Acq: 30 Oct 2018 16:20

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.7	22.0	41.0
77	74.3	54.3	81.5

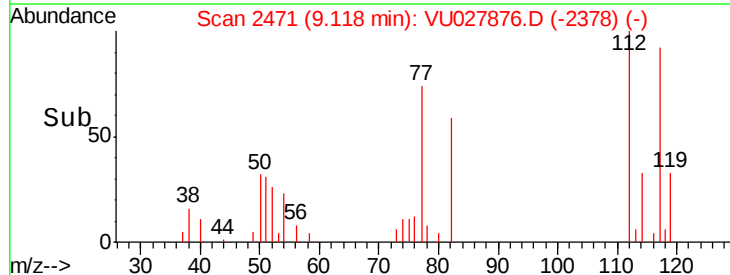
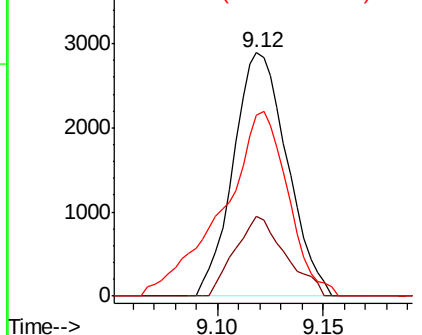


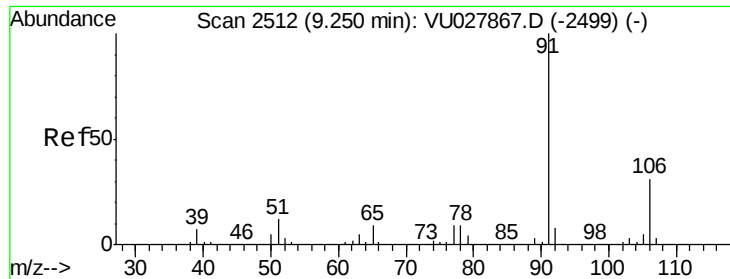
Abundance

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: 0.304 ug/L

RT: 9.25 min Scan# 2513

Delta R.T. 0.00 min

Lab File: VU027876.D

Acq: 30 Oct 2018 16:20

Instrument :

MSVOA_U

ClientSampled :

MDL05

Tot Ion: 91 Resp: 8958

Ion Ratio Lower Upper

91 100

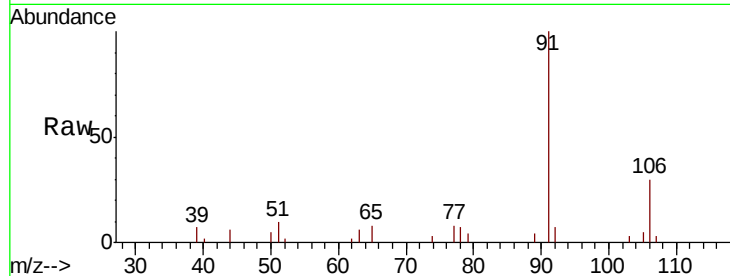
106 30.1 21.5 39.9

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

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

6000

5000

4000

3000

2000

1000

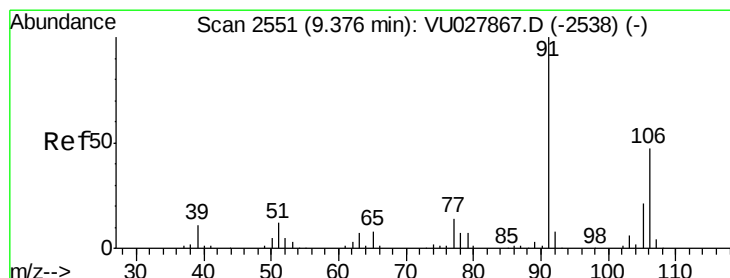
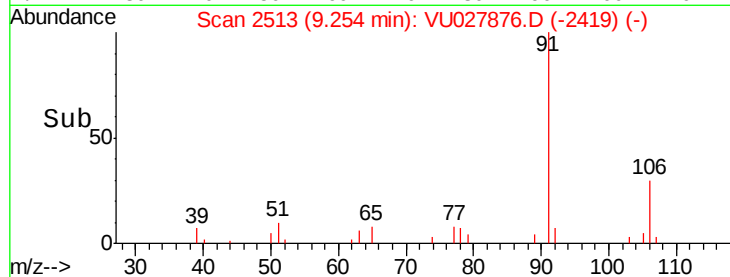
0

9.20

9.25

9.30

Time-->



#53

m,p-xylene

Concen: 0.283 ug/L

RT: 9.38 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VU027876.D

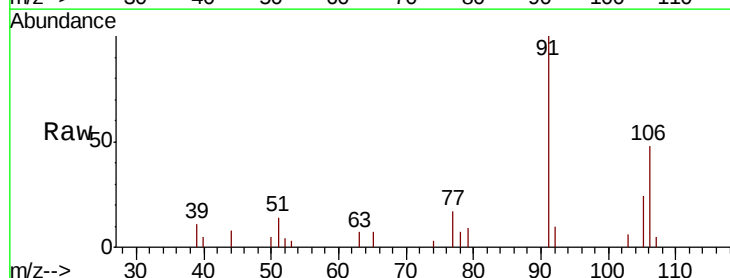
Acq: 30 Oct 2018 16:20

Tgt Ion: 106 Resp: 3027

Ion Ratio Lower Upper

106 100

91 208.0 148.7 276.1



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

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

4000

3000

2000

1000

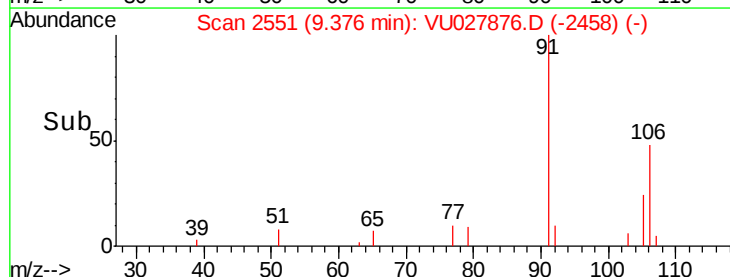
0

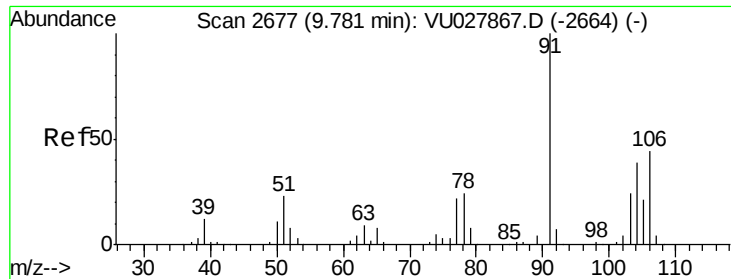
9.35

9.38

9.40

Time-->





#54

o-xylene

Concen: 0.292 ug/L

RT: 9.78 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VU027876.D

Acq: 30 Oct 2018 16:20

Instrument :

MSVOA_U

ClientSampled :

MDL05

Tot Ion:106 Resp: 3063

Ion Ratio Lower Upper

106 100

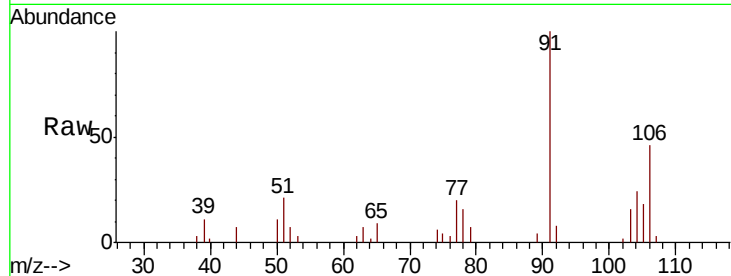
91 218.6 158.3 293.9

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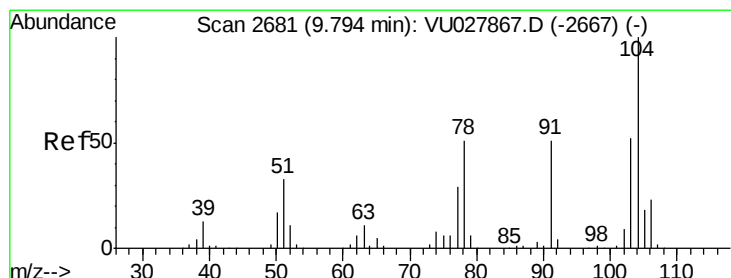
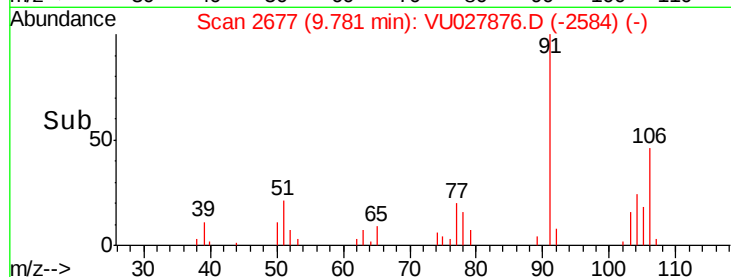
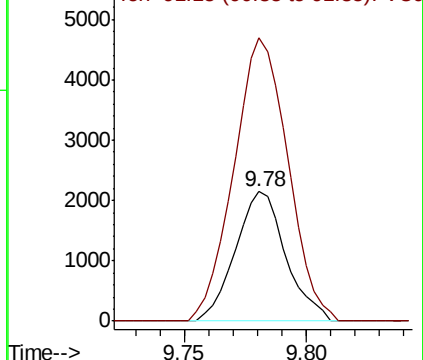
MMDadoda

11/1/2018 11:15:48 AM



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 0.276 ug/L

RT: 9.80 min Scan# 2682

Delta R.T. 0.00 min

Lab File: VU027876.D

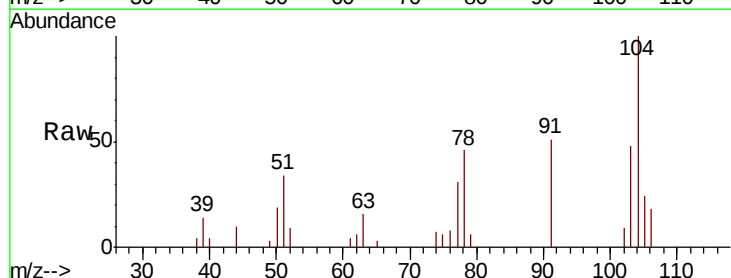
Acq: 30 Oct 2018 16:20

Tgt Ion:104 Resp: 4856

Ion Ratio Lower Upper

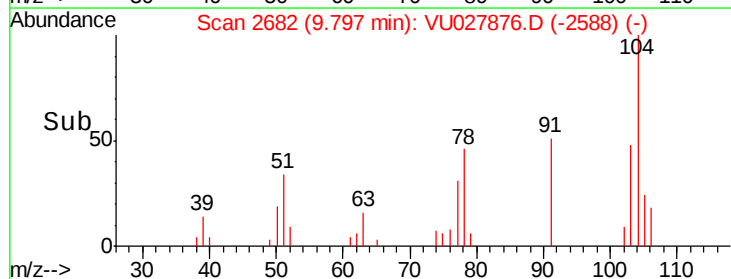
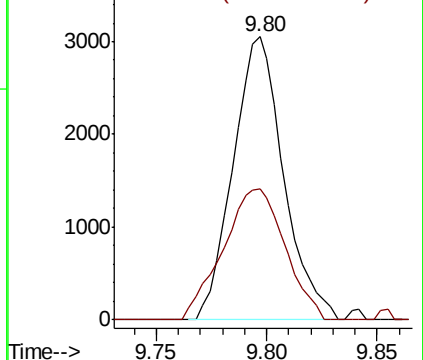
104 100

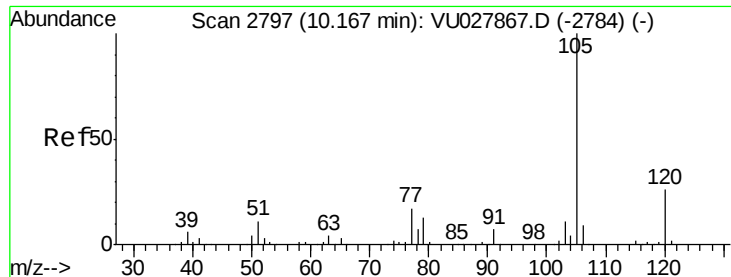
78 46.2 35.6 66.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 0.297 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. -0.00 min

Lab File: VU027876.D

Acq: 30 Oct 2018 16:20

Instrument :

MSVOA_U

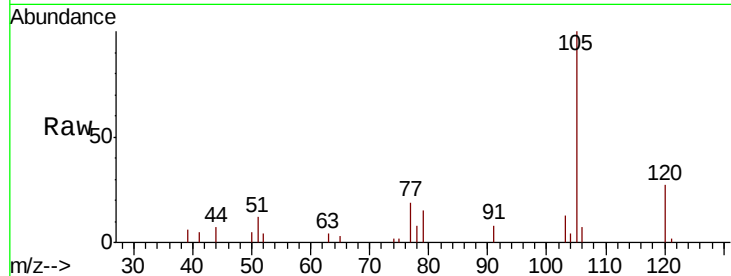
ClientSampleId :

MDL05

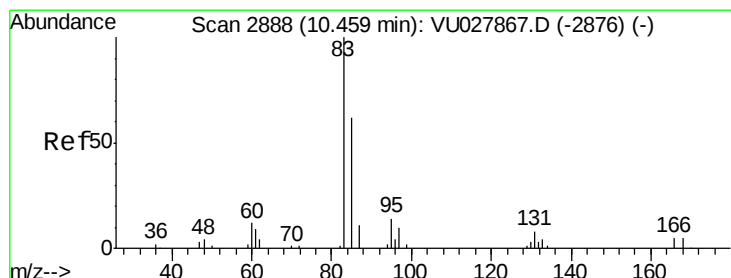
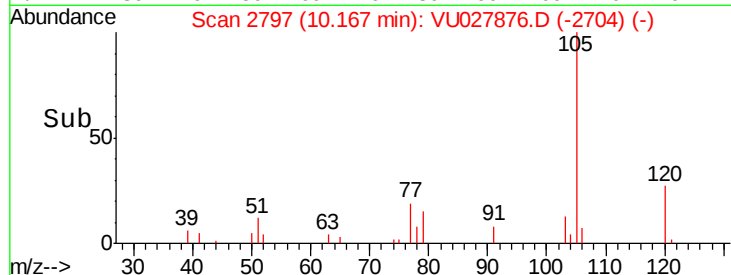
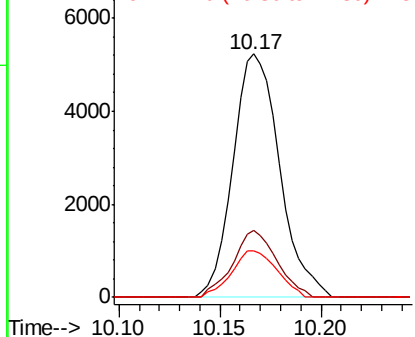
Tot Ion:	105	Resp:	8476
Ion Ratio	Lower	Upper	
105	100		
120	25.8	20.2	30.2
77	18.5	13.4	20.2

Manual Integrations
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11/1/2018 11:15:48 AM



Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.10 (119.80 to 120.80): V
Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 0.335 ug/L

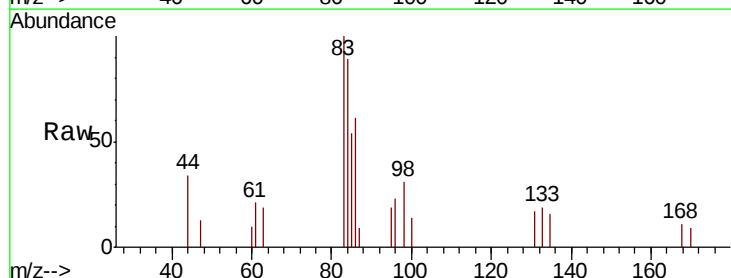
RT: 10.46 min Scan# 2888

Delta R.T. -0.00 min

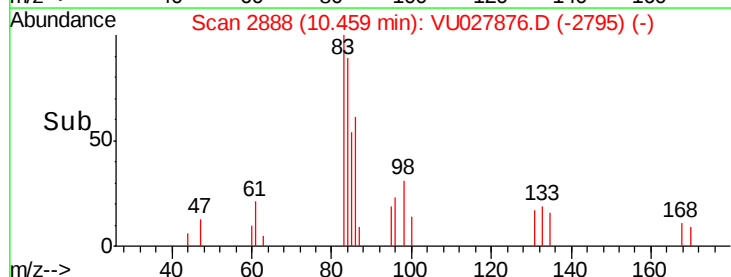
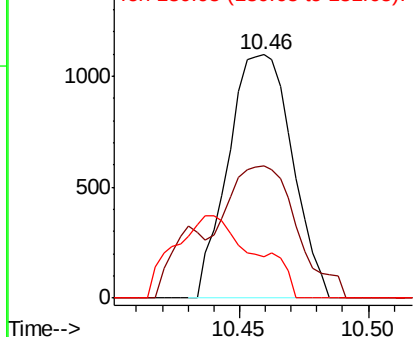
Lab File: VU027876.D

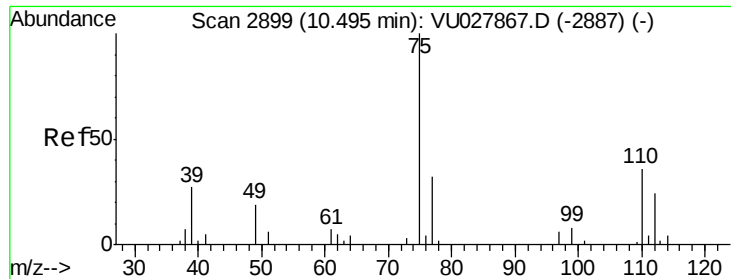
Acq: 30 Oct 2018 16:20

Tgt Ion:	83	Resp:	1892
Ion Ratio	Lower	Upper	
83	100		
85	54.4	44.4	82.4
131	16.9	6.8	10.2#



Abundance Ion 82.95 (82.65 to 83.65): VU0
Ion 85.00 (84.70 to 85.70): VU0
Ion 130.95 (130.65 to 131.65): V





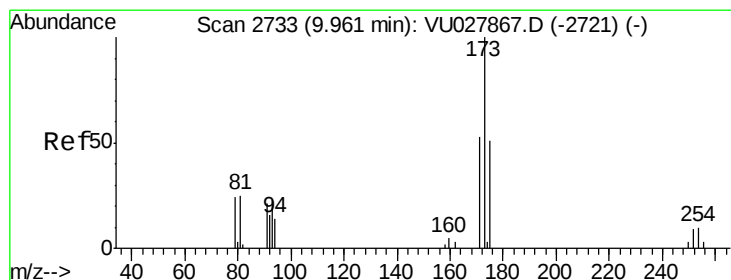
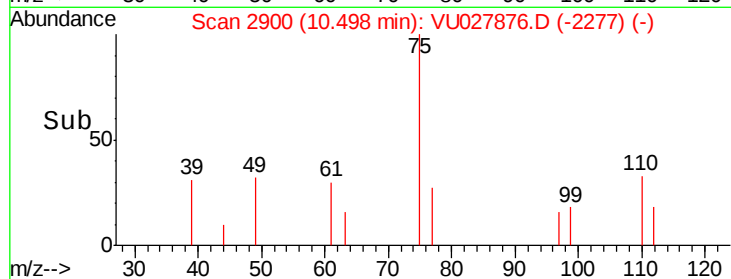
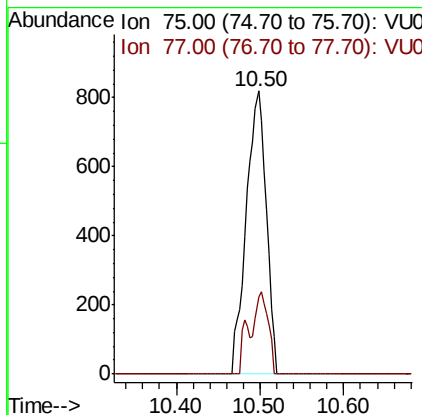
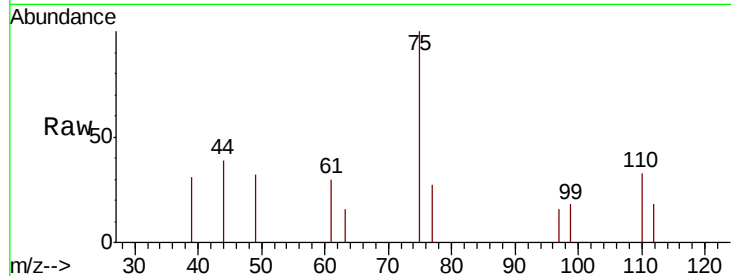
#59
 1,2,3-Trichloropropane
 Concen: 0.316 ug/L m
 RT: 10.50 min Scan# 2900
 Delta R.T. 0.00 min
 Lab File: VU027876.D
 Acq: 30 Oct 2018 16:20

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Tot Ion: 75 Resp: 1346
 Ion Ratio Lower Upper
 75 100
 77 157.9 25.8 38.6#

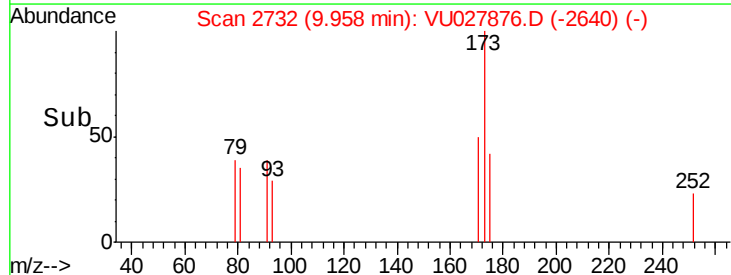
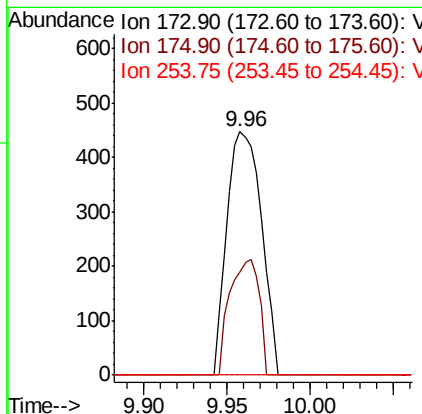
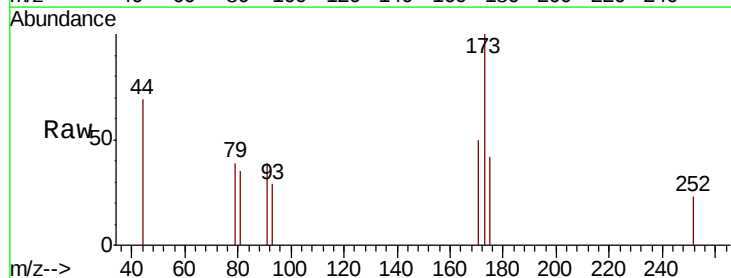
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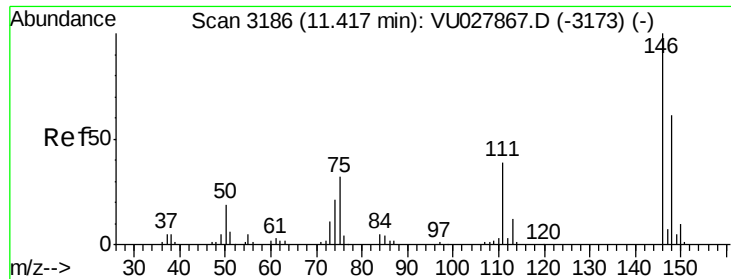
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#61
 Bromoform
 Concen: 0.226 ug/L m
 RT: 9.96 min Scan# 2732
 Delta R.T. -0.00 min
 Lab File: VU027876.D
 Acq: 30 Oct 2018 16:20

Tgt Ion: 173 Resp: 648
 Ion Ratio Lower Upper
 173 100
 175 40.4 38.3 57.5
 254 0.0 7.8 11.6#





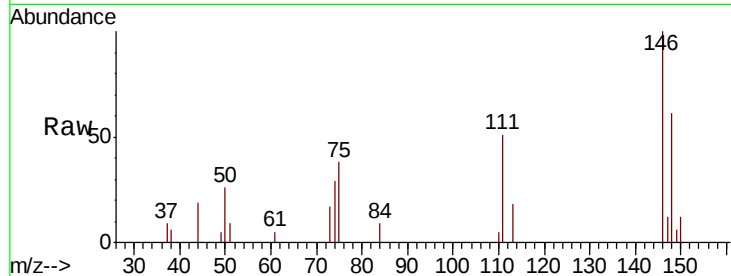
#62
 1,3-Dichlorobenzene
 Concen: 0.284 ug/L
 RT: 11.42 min Scan# 3186
 Delta R.T. -0.00 min
 Lab File: VU027876.D
 Acq: 30 Oct 2018 16:20

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

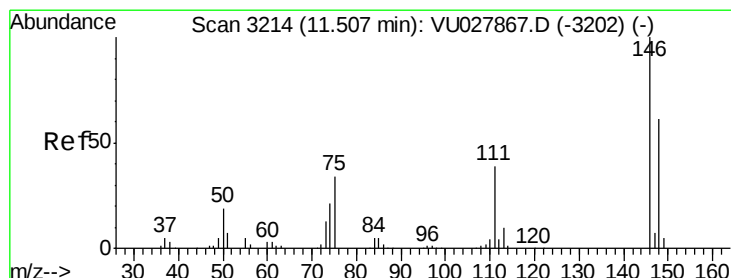
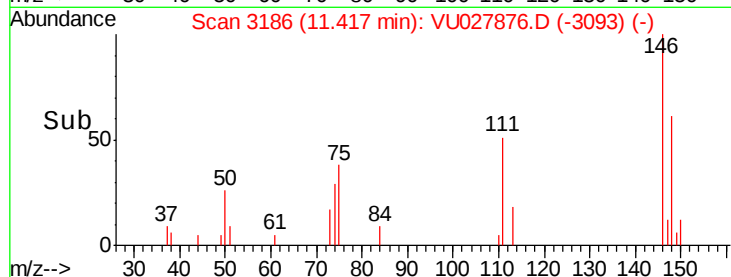
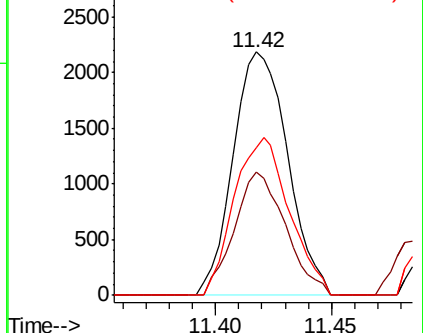
Tot Ion	Ratio	Lower	Upper
146	100		
111	50.8	27.4	51.0
148	60.8	42.6	79.0

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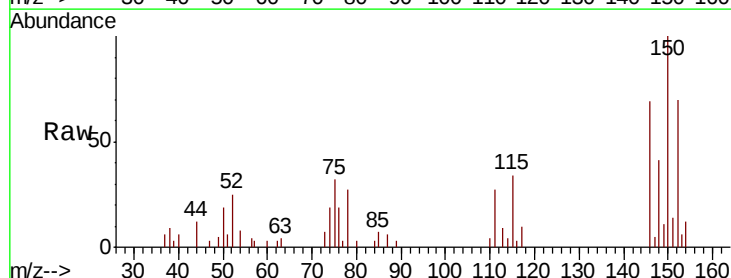


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

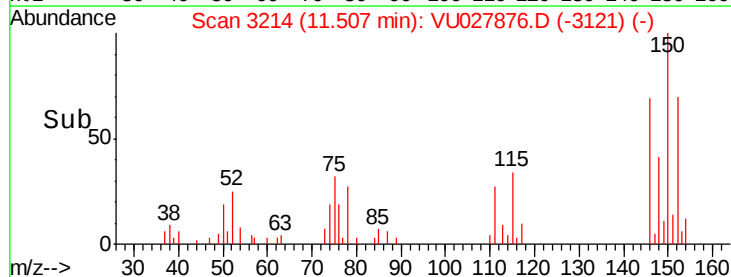
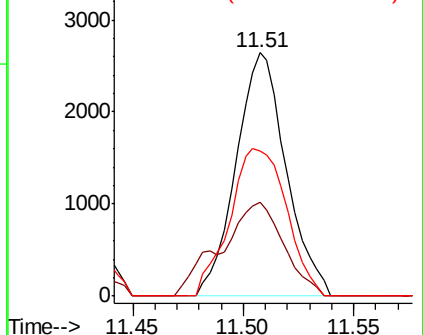


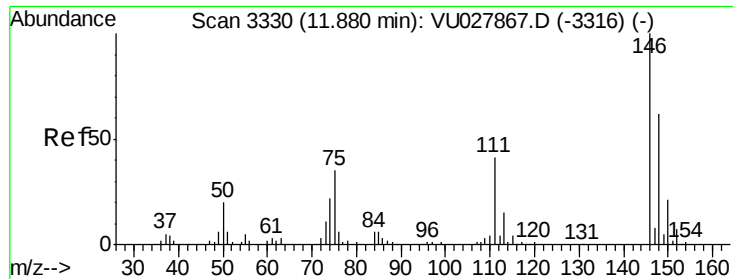
#63
 1,4-Dichlorobenzene
 Concen: 0.332 ug/L
 RT: 11.51 min Scan# 3214
 Delta R.T. -0.00 min
 Lab File: VU027876.D
 Acq: 30 Oct 2018 16:20

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.4	27.4	51.0
148	59.5	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





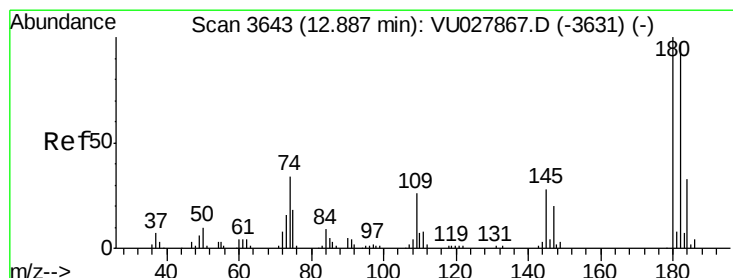
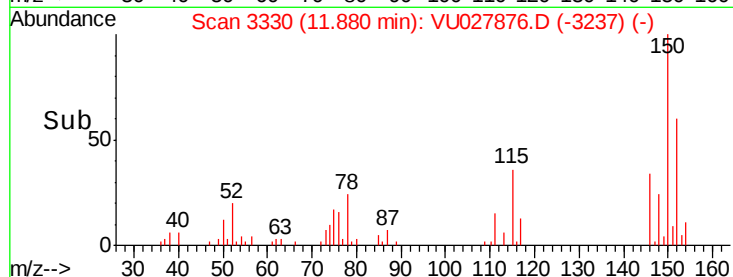
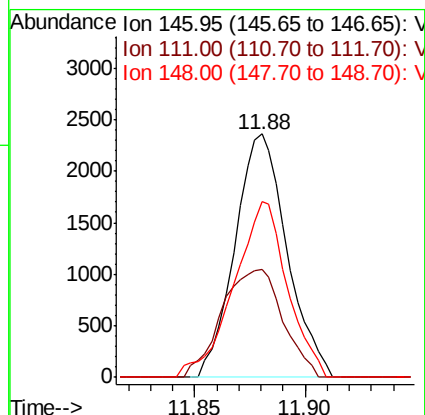
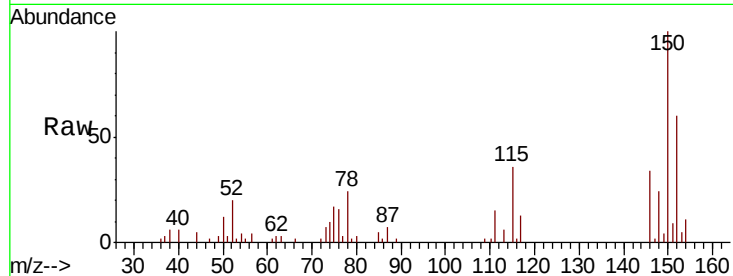
#65
 1,2-Dichlorobenzene
 Concen: 0.325 ug/L
 RT: 11.88 min Scan# 3330
 Delta R.T. -0.00 min
 Lab File: VU027876.D
 Acq: 30 Oct 2018 16:20

Instrument :
 MSVOA_U
 ClientSampled :
 MDL05

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.4	33.0	49.4
148	72.2	49.2	73.8

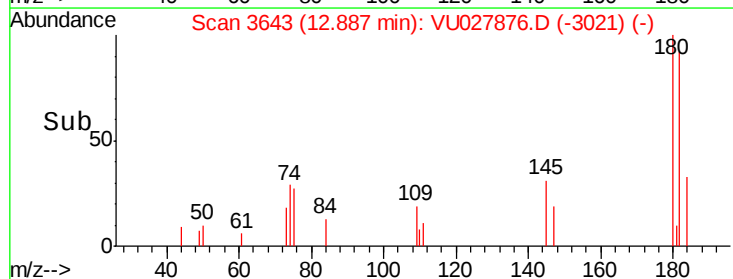
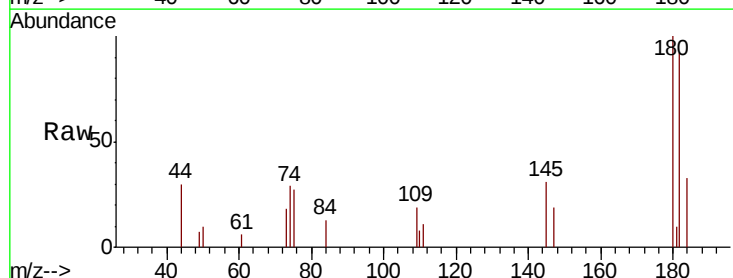
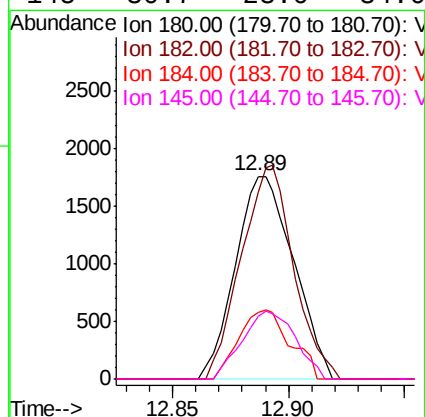
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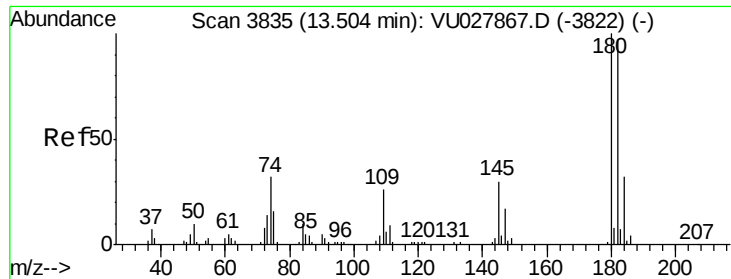
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#67
 1,3,5-Trichlorobenzene
 Concen: 0.302 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. -0.00 min
 Lab File: VU027876.D
 Acq: 30 Oct 2018 16:20

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.8	77.3	115.9
184	29.9	24.6	37.0
145	30.7	23.0	34.6





#68

1,2,4-trichlorobenzene

Concen: 0.273 ug/L m

RT: 13.51 min Scan# 3836

Delta R.T. 0.00 min

Lab File: VU027876.D

Acq: 30 Oct 2018 16:20

Instrument :

MSVOA_U

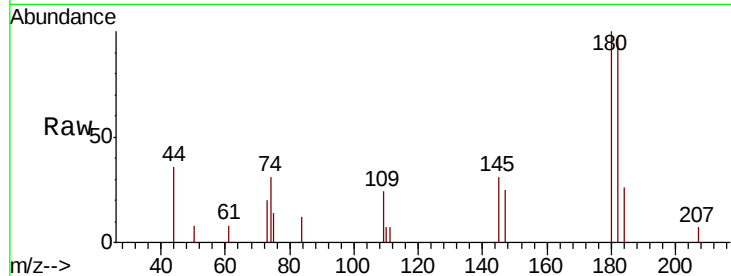
ClientSampleId :

MDL05

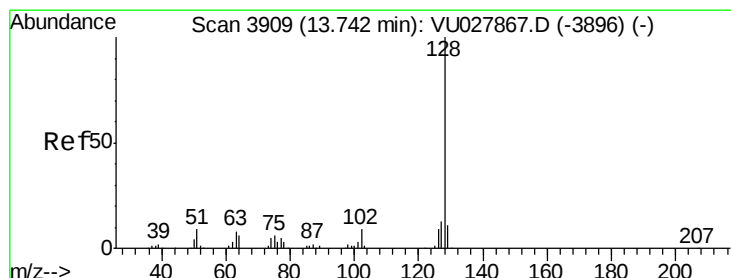
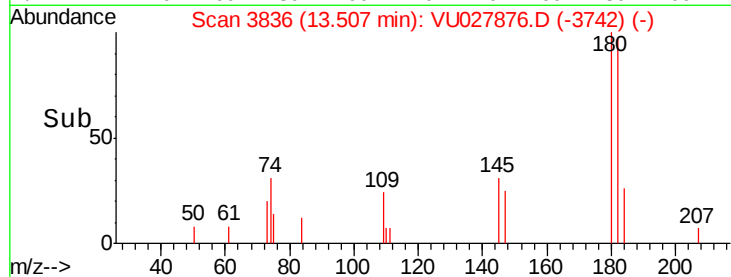
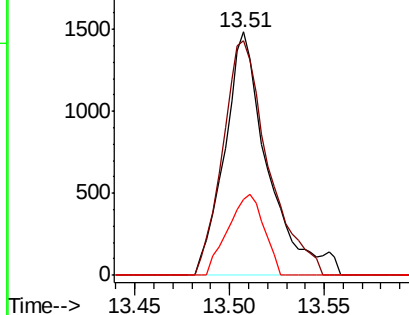
Tot Ion:	180	Resp:	2343
Ion Ratio	Lower	Upper	
180	100		
182	101.7	77.8	116.6
145	27.6	22.9	34.3

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Abundance Ion 179.90 (179.60 to 180.60): V
2000 Ion 182.00 (181.70 to 182.70): V
Ion 144.95 (144.65 to 145.65): V



#69

Naphthalene

Concen: 0.268 ug/L

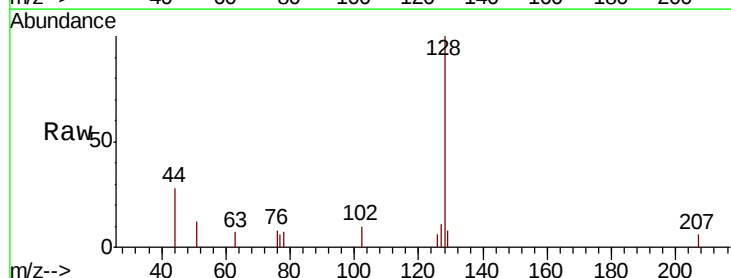
RT: 13.75 min Scan# 3911

Delta R.T. 0.01 min

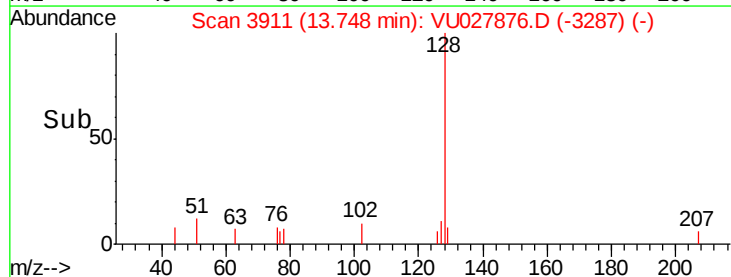
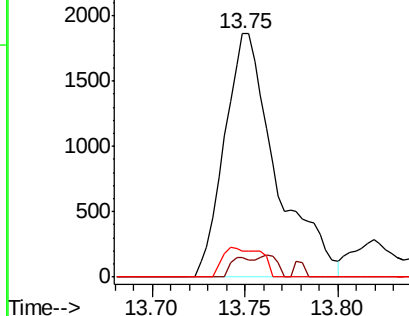
Lab File: VU027876.D

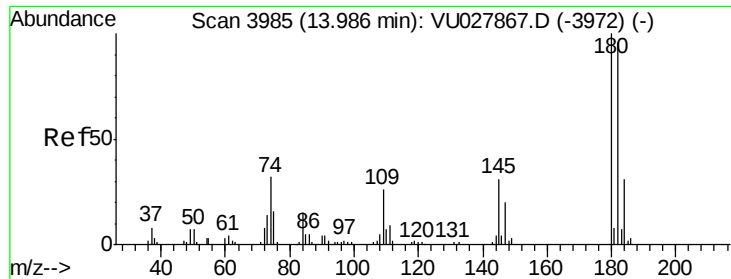
Acq: 30 Oct 2018 16:20

Tgt Ion:	128	Resp:	3588
Ion Ratio	Lower	Upper	
128	100		
129	3.5	8.6	12.8#
127	9.1	10.5	15.7#



Abundance Ion 128.00 (127.70 to 128.70): V
2500 Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V





#70
 1,2,3-Trichlorobenzene
 Concen: 0.263 ug/L
 RT: 13.99 min Scan# 3985
 Delta R.T. -0.00 min
 Lab File: VU027876.D
 Acq: 30 Oct 2018 16:20

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Tot Ion:	180	Resp:	2063
Ion Ratio	Lower	Upper	
180	100		
182	113.5	79.4	119.0
145	38.3	25.4	38.0

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