

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U103018\
 Data File : VU027875.D
 Acq On : 30 Oct 2018 15:33
 Operator : MD/SY
 Sample : MDL04
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Manual Integrations
 APPROVED

MMDadoda
 11/1/2018 11:15:41 AM

Quant Time: Oct 31 02:41:19 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	82385	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	79570	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	38456	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	31565	4.90	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	98.00%
7) Chloroethane-d5	1.68	69	23935	4.82	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.40%
11) 1,1-Dichloroethene-d2	2.28	63	45260	3.70	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	74.00%
20) 2-Butanone-d5	4.20	46	95030	49.49	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	98.98%
24) Chloroform-d	4.65	84	53681	4.63	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.60%
26) 1,2-Dichloroethane-d4	5.31	65	32831	4.93	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.60%
32) Benzene-d6	5.34	84	105665	4.85	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.00%
36) 1,2-Dichloropropane-d6	6.33	67	36488	4.73	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.60%
41) Toluene-d8	7.57	98	98254	4.74	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.80%
43) trans-1,3-Dichloropropene-	7.85	79	13957	4.67	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	93.40%
46) 2-Hexanone-d5	8.31	63	77827	47.66	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	95.32%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	25898	4.75	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.00%
64) 1,2-Dichlorobenzene-d4	11.86	152	35132	4.78	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.21	85	2422	0.299 ug/L	95
3) Chloromethane	1.33	50	2801	0.348 ug/L	94
5) Vinyl chloride	1.40	62	2750	0.343 ug/L #	64
6) Bromomethane	1.63	94	914	0.347 ug/L	86
8) Chloroethane	1.70	64	1770	0.377 ug/L	85
9) Trichlorofluoromethane	1.89	101	3427	0.322 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	1943	0.358 ug/L	91
12) 1,1-Dichloroethene	2.29	96	1807	0.353 ug/L #	1
13) Acetone	2.33	43	4329	3.576 ug/L	95
14) Carbon disulfide	2.48	76	5891	0.322 ug/L #	94
15) Methyl Acetate	2.62	43	1656	0.511 ug/L #	64
16) Methylene chloride	2.71	84	2131	0.371 ug/L	96
17) Methyl tert-butyl Ether	3.01	73	5157	0.338 ug/L #	85
18) trans-1,2-Dichloroethene	2.99	96	1820	0.335 ug/L	80
19) 1,1-Dichloroethane	3.45	63	3864	0.337 ug/L #	94
21) 2-Butanone	4.29	43	6929m	3.293 ug/L	
22) cis-1,2-Dichloroethene	4.23	96	1769	0.281 ug/L #	56

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Manual Integrations
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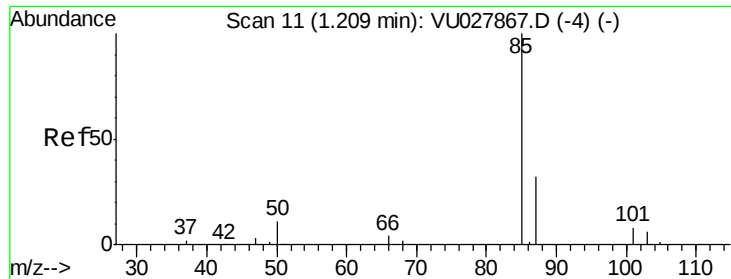
MMDadoda
 11/1/2018 11:15:41 AM

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR103018WMA.M
 Quant Title : TRACE VOA SOM01.0
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.55	128	783	0.301	ug/L #	93
25) Chloroform	4.67	83	4192	0.360	ug/L	100
27) 1,2-Dichloroethane	5.41	62	2622	0.323	ug/L #	78
29) 1,1,1-Trichloroethane	4.92	97	3374	0.329	ug/L	98
30) Cyclohexane	4.99	56	3843	0.319	ug/L	94
31) Carbon tetrachloride	5.13	117	2941	0.334	ug/L	99
33) Benzene	5.40	78	8551	0.339	ug/L	100
34) Trichloroethene	6.19	95	2073	0.316	ug/L	93
35) Methylcyclohexane	6.42	83	3526	0.316	ug/L	96
37) 1,2-Dichloropropane	6.44	63	2342	0.326	ug/L #	90
38) Bromodichloromethane	6.76	83	2418	0.288	ug/L	91
39) cis-1,3-Dichloropropene	7.27	75	3333	0.324	ug/L	86
40) 4-Methyl-2-pentanone	7.47	43	16309	3.216	ug/L #	89
42) Toluene	7.64	91	8525	0.323	ug/L	89
44) trans-1,3-Dichloropropene	7.88	75	2650m	0.300	ug/L	
45) 1,1,2-Trichloroethane	8.08	97	1423	0.322	ug/L	93
47) Tetrachloroethene	8.23	164	1650	0.327	ug/L	94
48) 2-Hexanone	8.37	43	13047	3.569	ug/L #	96
49) Dibromochloromethane	8.48	129	1520	0.285	ug/L	94
50) 1,2-Dibromoethane	8.59	107	1307	0.309	ug/L #	97
51) Chlorobenzene	9.12	112	5267	0.322	ug/L	94
52) Ethylbenzene	9.25	91	9909	0.330	ug/L	96
53) m,p-xylene	9.38	106	3218	0.295	ug/L	77
54) o-xylene	9.78	106	3376	0.315	ug/L	85
55) Styrene	9.79	104	5555	0.310	ug/L	90
56) Isopropylbenzene	10.17	105	8848	0.303	ug/L #	96
58) 1,1,2,2-Tetrachloroethane	10.46	83	1644	0.286	ug/L	93
59) 1,2,3-Trichloropropane	10.49	75	1326m	0.305	ug/L	
61) Bromoform	9.96	173	694	0.245	ug/L #	83
62) 1,3-Dichlorobenzene	11.42	146	4139	0.335	ug/L	84
63) 1,4-Dichlorobenzene	11.50	146	4584	0.371	ug/L	92
65) 1,2-Dichlorobenzene	11.88	146	3988	0.341	ug/L	88
66) 1,2-Dibromo-3-chloropropan	12.66	75	285	0.311	ug/L #	53
67) 1,3,5-Trichlorobenzene	12.89	180	3213	0.323	ug/L	94
68) 1,2,4-trichlorobenzene	13.50	180	2587	0.306	ug/L	91
69) Naphthalene	13.75	128	3819	0.290	ug/L #	93
70) 1,2,3-Trichlorobenzene	13.99	180	2404	0.312	ug/L #	91

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



#2

Dichlorodifluoromethane

Concen: 0.299 ug/L

RT: 1.21 min Scan# 11

Delta R.T. 0.00 min

Lab File: VU027875.D

Acq: 30 Oct 2018 15:33

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 85 Resp: 2422

Ion Ratio Lower Upper

85 100

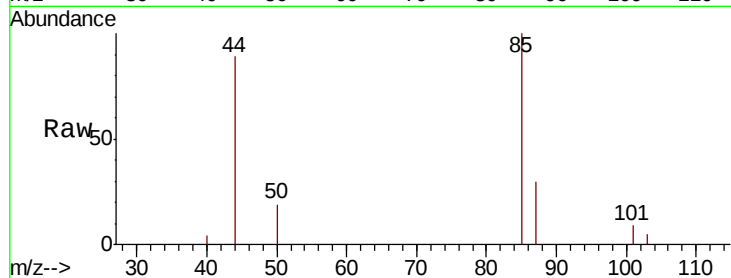
87 28.5 25.2 37.8

Manual Integrations

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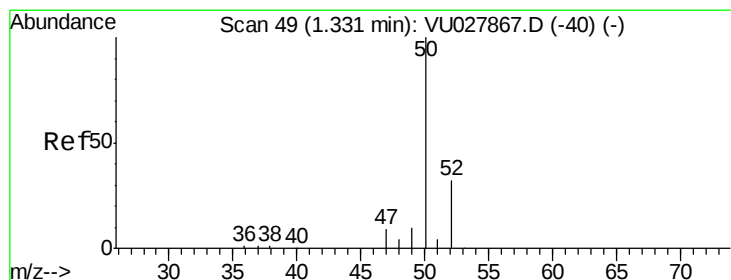
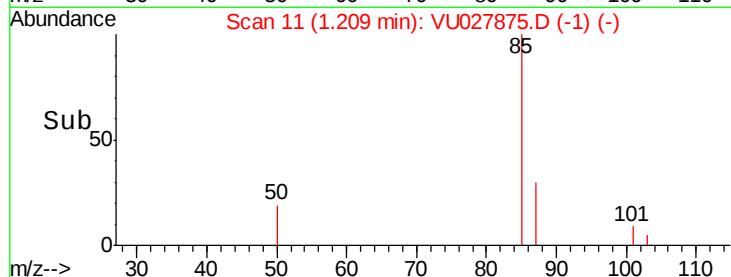
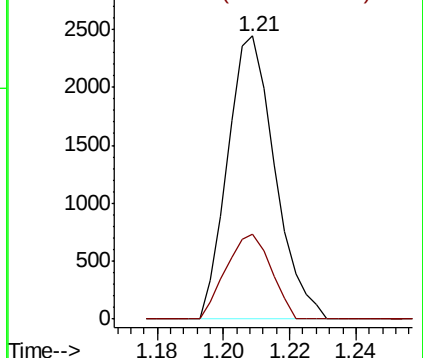
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Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 0.348 ug/L

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU027875.D

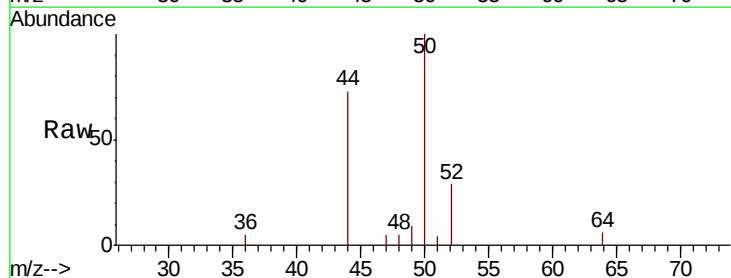
Acq: 30 Oct 2018 15:33

Tgt Ion: 50 Resp: 2801

Ion Ratio Lower Upper

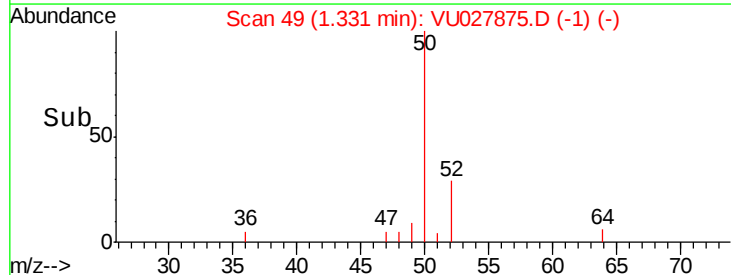
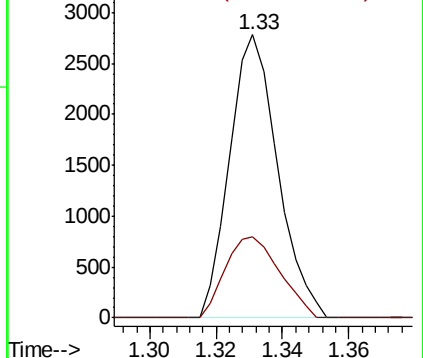
50 100

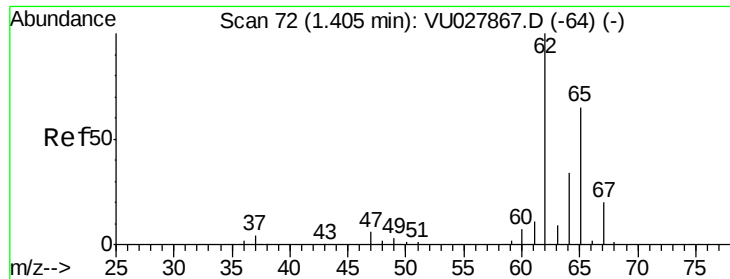
52 28.8 22.3 41.5



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 0.343 ug/L

RT: 1.40 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU027875.D

Acq: 30 Oct 2018 15:33

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion: 62 Resp: 2750

Ion Ratio Lower Upper

62 100

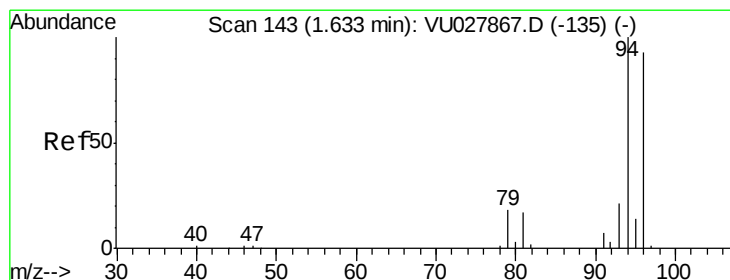
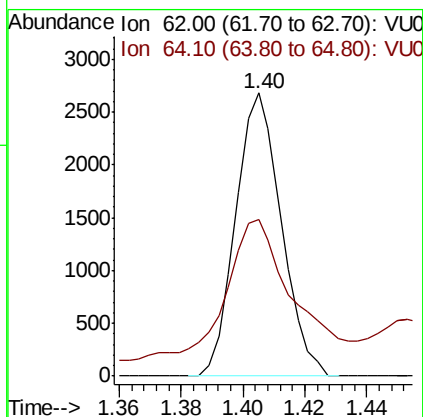
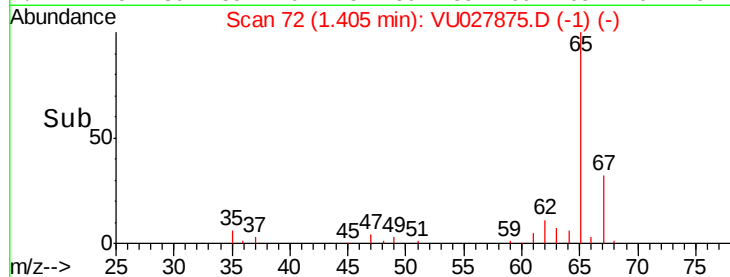
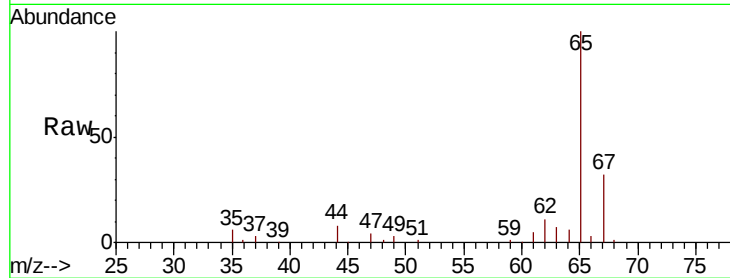
64 55.2 24.0 44.6#

Manual Integrations

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#6

Bromomethane

Concen: 0.347 ug/L

RT: 1.63 min Scan# 142

Delta R.T. -0.00 min

Lab File: VU027875.D

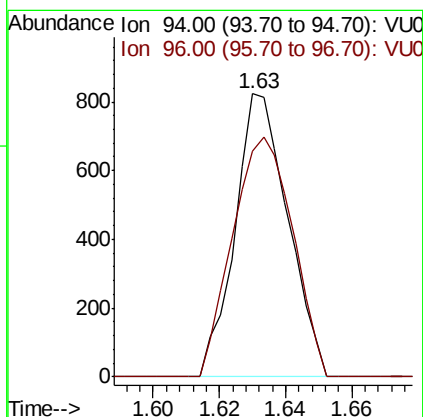
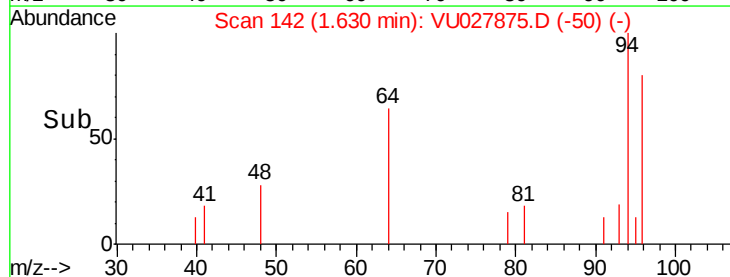
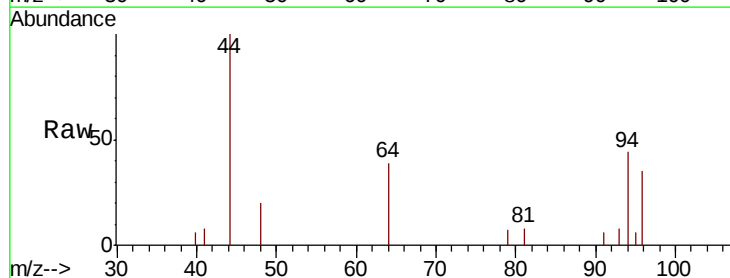
Acq: 30 Oct 2018 15:33

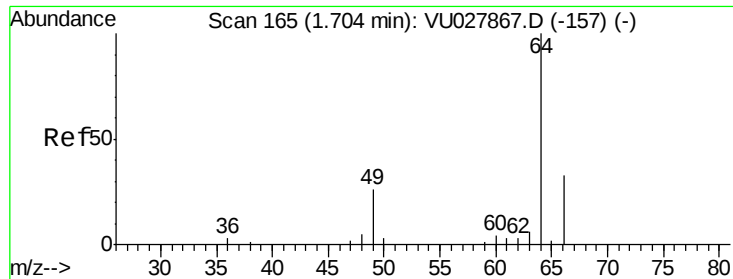
Tgt Ion: 94 Resp: 914

Ion Ratio Lower Upper

94 100

96 79.8 65.0 120.6





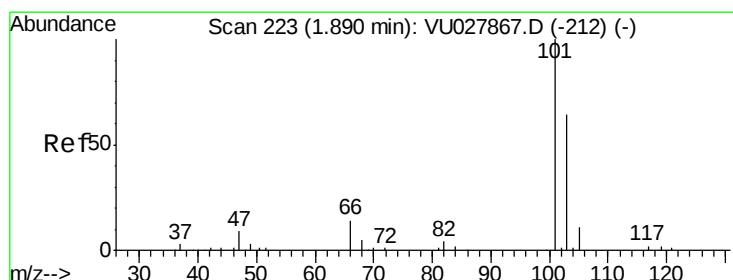
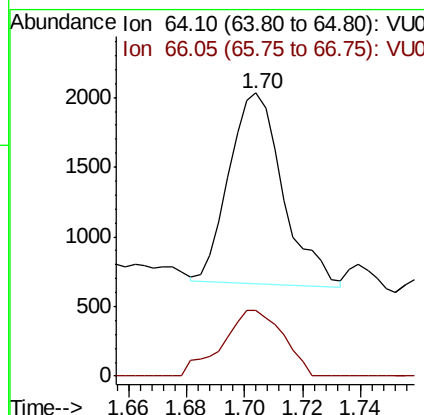
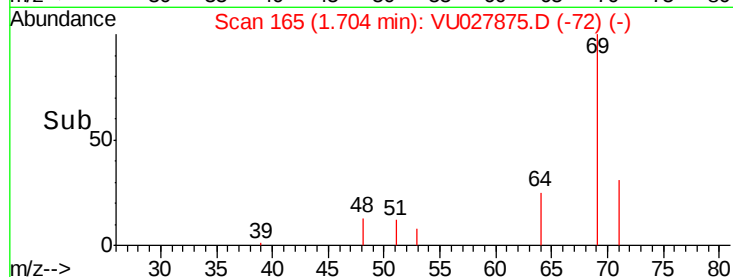
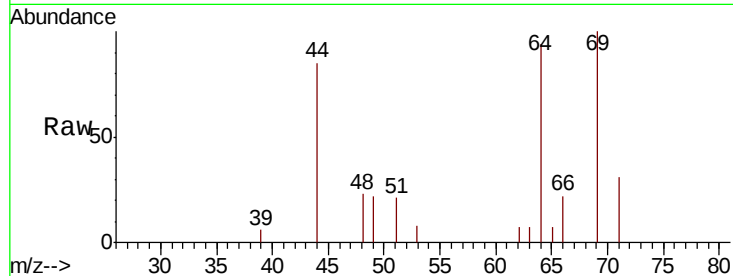
#8
Chloroethane
Concen: 0.377 ug/L
RT: 1.70 min Scan# 165
Delta R.T. 0.00 min
Lab File: VU027875.D
Acq: 30 Oct 2018 15:33

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion: 64 Resp: 1770
Ion Ratio Lower Upper
64 100
66 23.2 21.8 40.6

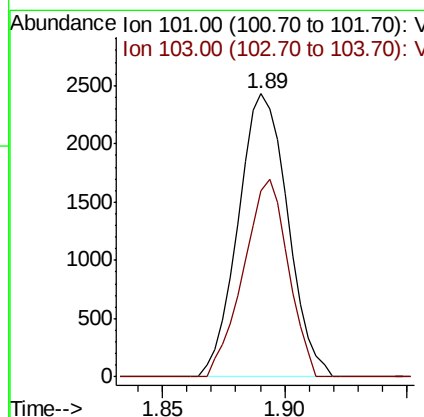
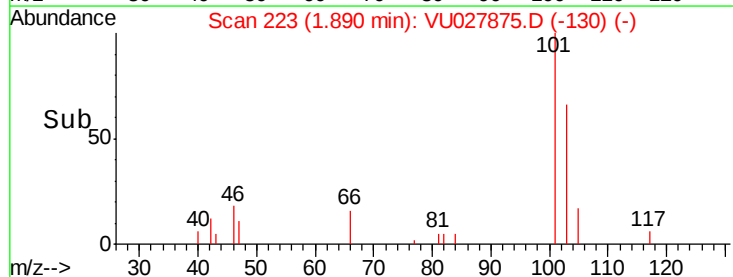
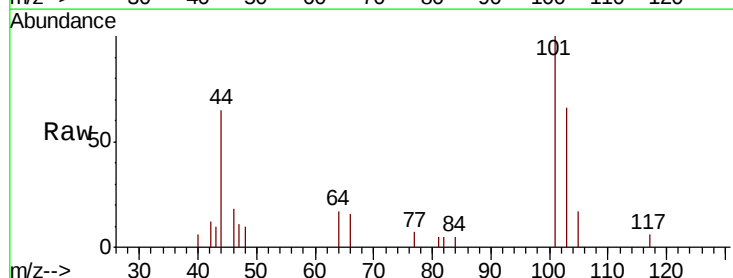
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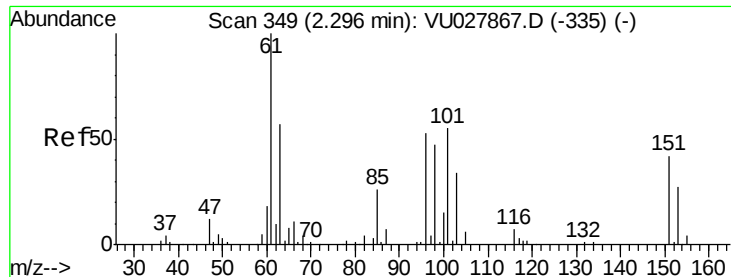
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#9
Trichlorofluoromethane
Concen: 0.322 ug/L
RT: 1.89 min Scan# 223
Delta R.T. 0.00 min
Lab File: VU027875.D
Acq: 30 Oct 2018 15:33

Tgt Ion: 101 Resp: 3427
Ion Ratio Lower Upper
101 100
103 62.7 51.4 77.0





#10

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

Concen: 0.358 ug/L

RT: 2.29 min Scan# 347

Delta R.T. -0.01 min

Lab File: VU027875.D

Acq: 30 Oct 2018 15:33

Instrument :

MSVOA_U

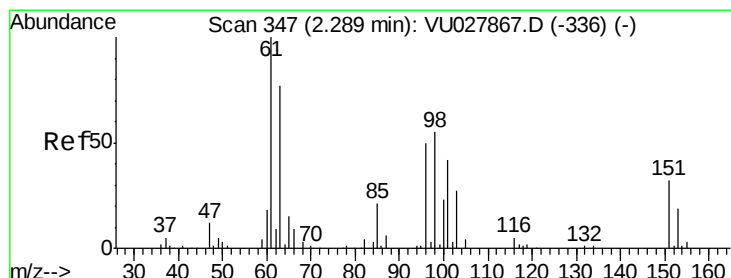
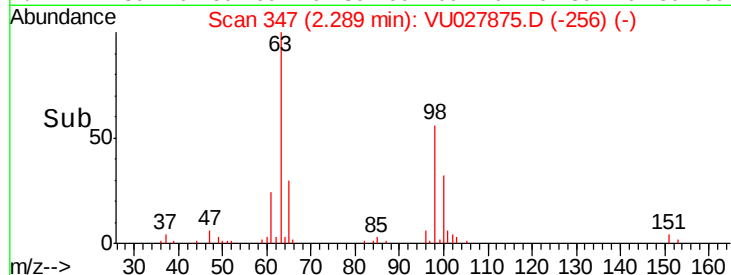
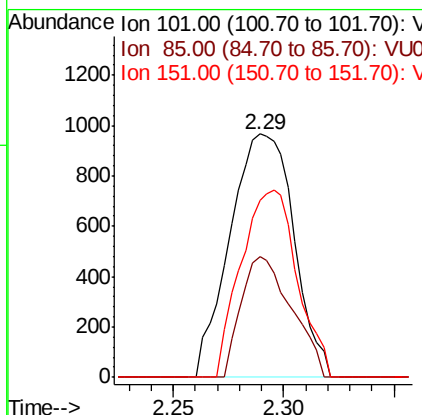
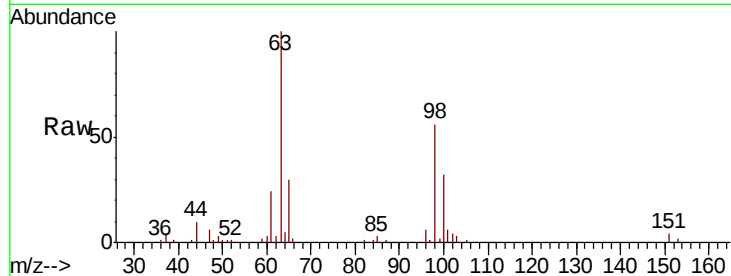
ClientSampleId :

MDL04

Tot Ion:	101	Resp:	1943
Ion Ratio	Lower	Upper	
101	100		
85	39.3	37.1	55.7
151	67.8	59.9	89.9

Manual Integrations
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11/1/2018 11:15:41 AM



#12

1,1-Dichloroethene

Concen: 0.353 ug/L

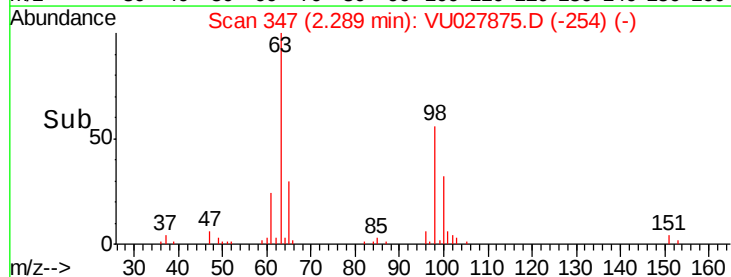
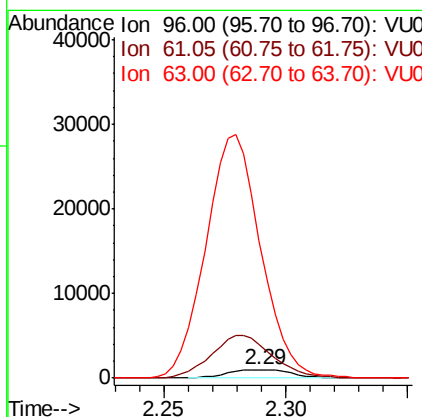
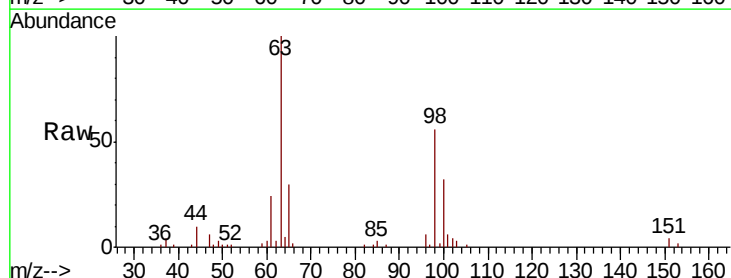
RT: 2.29 min Scan# 347

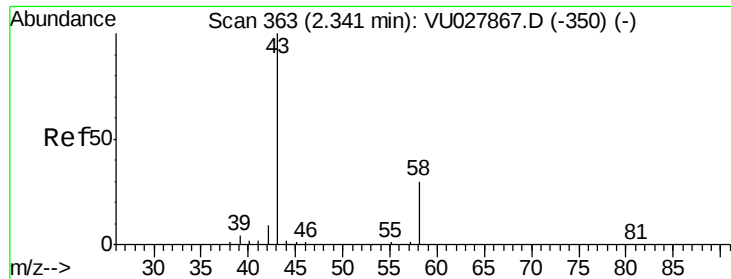
Delta R.T. 0.00 min

Lab File: VU027875.D

Acq: 30 Oct 2018 15:33

Tgt Ion:	96	Resp:	1807
Ion Ratio	Lower	Upper	
96	100		
61	392.2	141.1	262.1#
63	1615.5	113.0	209.9#





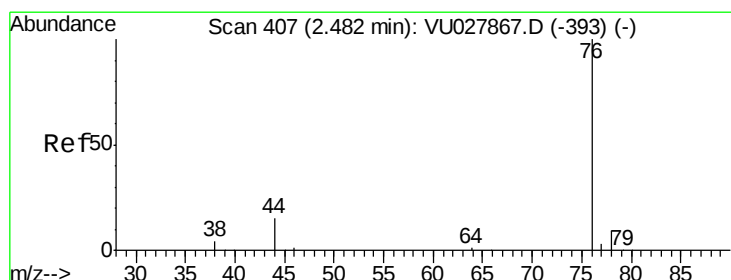
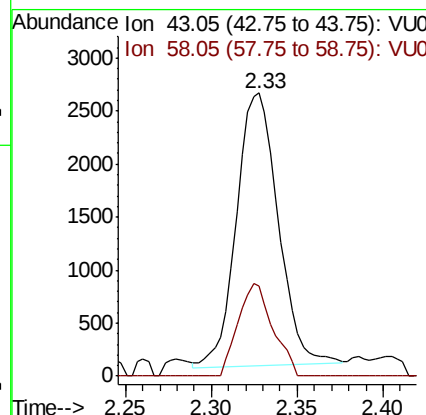
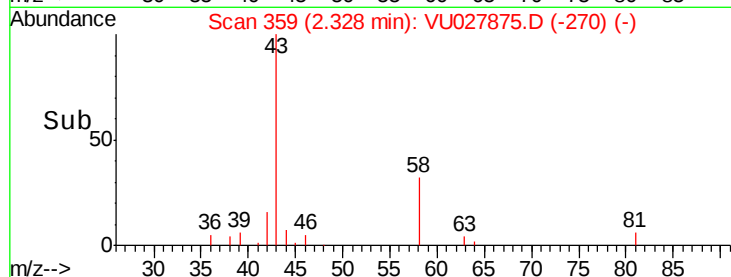
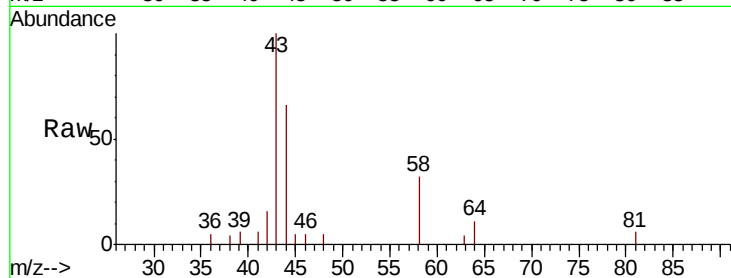
#13
Acetone
Concen: 3.576 ug/L
RT: 2.33 min Scan# 359
Delta R.T. -0.01 min
Lab File: VU027875.D
Acq: 30 Oct 2018 15:33

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
43	100		
58	28.2	0.0	61.4

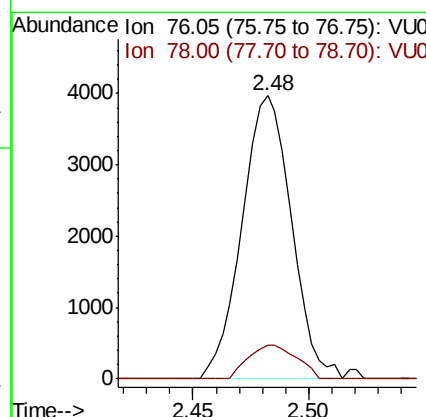
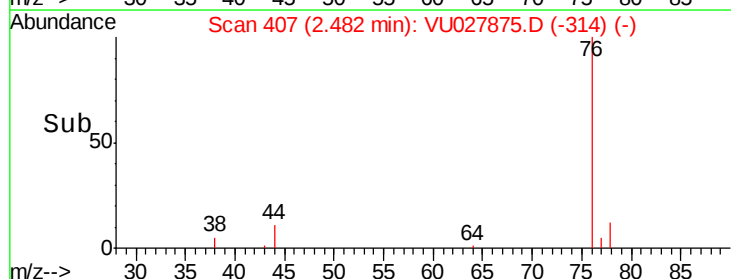
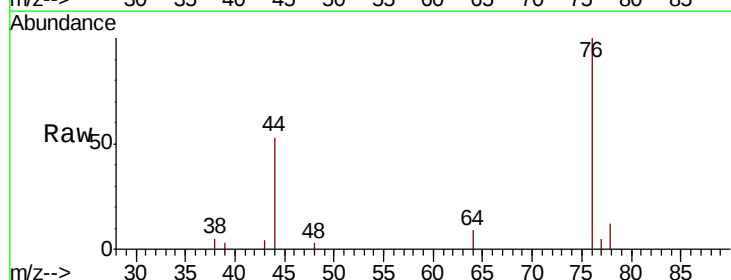
Manual Integrations
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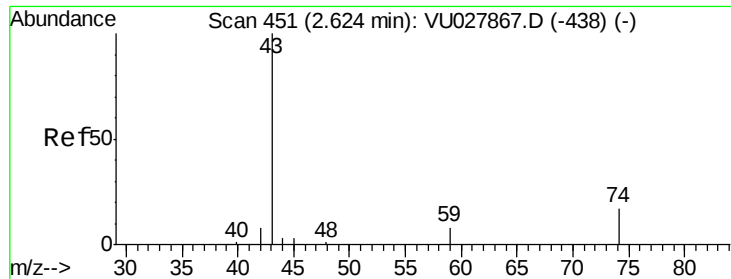
MMDadoda
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#14
Carbon disulfide
Concen: 0.322 ug/L
RT: 2.48 min Scan# 407
Delta R.T. 0.00 min
Lab File: VU027875.D
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Tgt Ion	Ratio	Lower	Upper
76	100		
78	11.7	7.5	11.3#





#15

Methyl Acetate

Concen: 0.511 ug/L

RT: 2.62 min Scan# 451

Delta R.T. 0.00 min

Lab File: VU027875.D

Acq: 30 Oct 2018 15:33

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 43 Resp: 1656

Ion Ratio Lower Upper

43 100

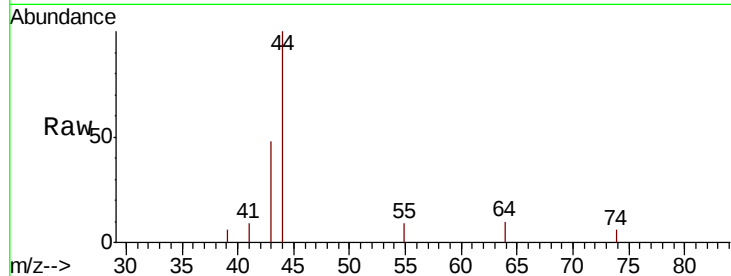
74 2.5 14.9 22.3#

Manual Integrations

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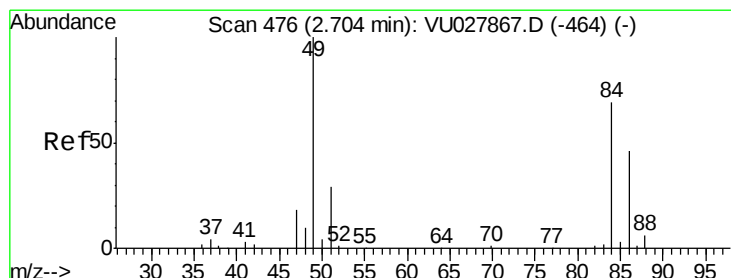
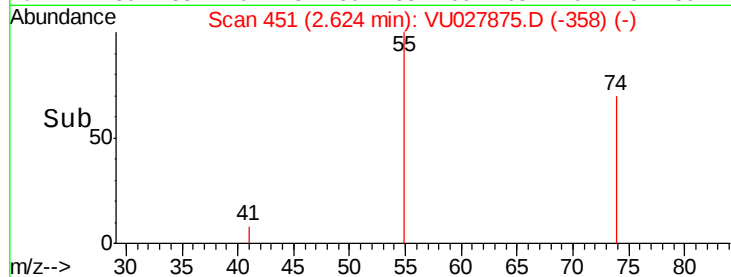
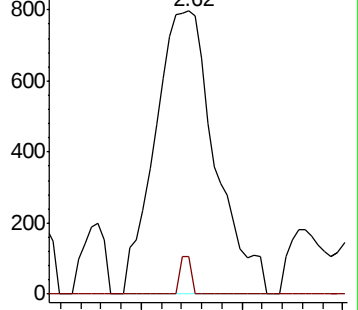
MMDadoda

11/1/2018 11:15:41 AM



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0



#16

Methylene chloride

Concen: 0.371 ug/L

RT: 2.71 min Scan# 477

Delta R.T. 0.00 min

Lab File: VU027875.D

Acq: 30 Oct 2018 15:33

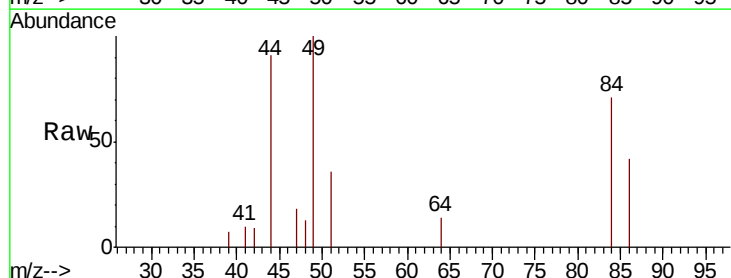
Tgt Ion: 84 Resp: 2131

Ion Ratio Lower Upper

84 100

86 59.9 46.7 86.7

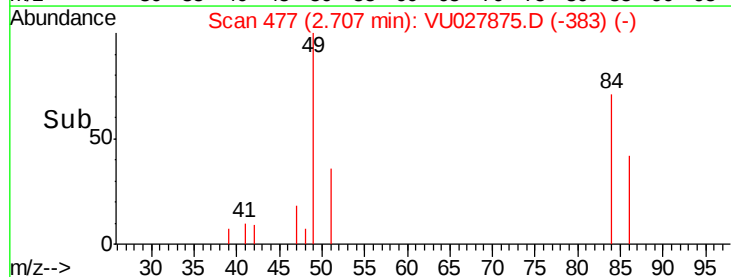
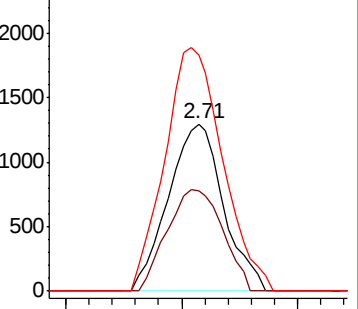
49 141.5 101.3 188.1

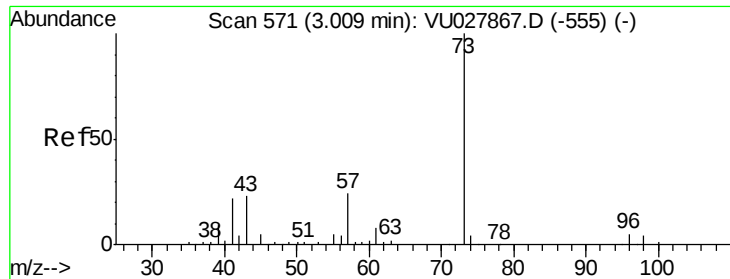


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0





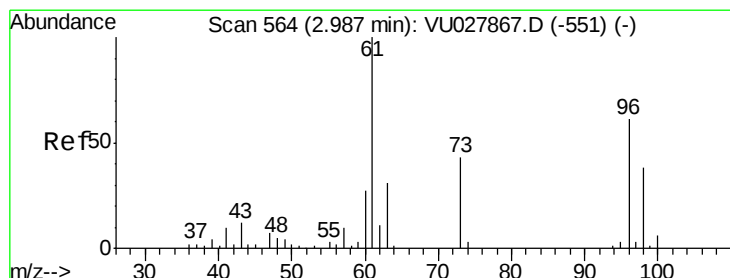
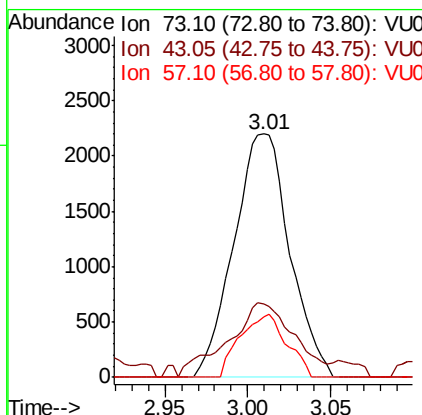
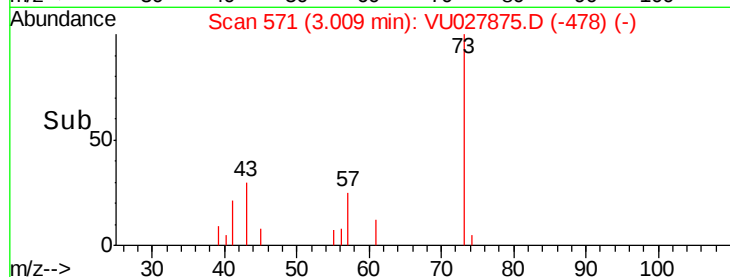
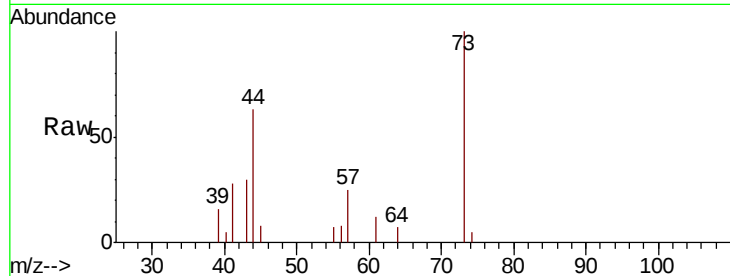
#17
Methvl tert-butvl Ether
Concen: 0.338 ug/L
RT: 3.01 min Scan# 571
Delta R.T. 0.00 min
Lab File: VU027875.D
Acq: 30 Oct 2018 15:33

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
73	100		
43	36.0	18.7	28.1#
57	21.6	18.7	28.1

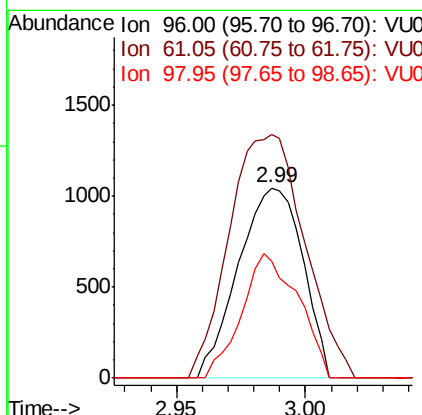
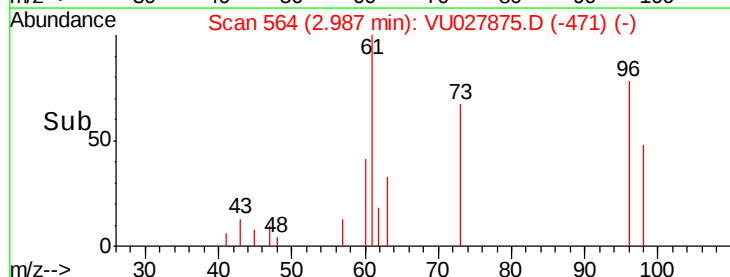
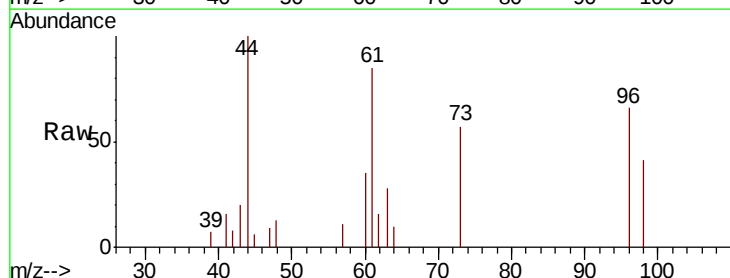
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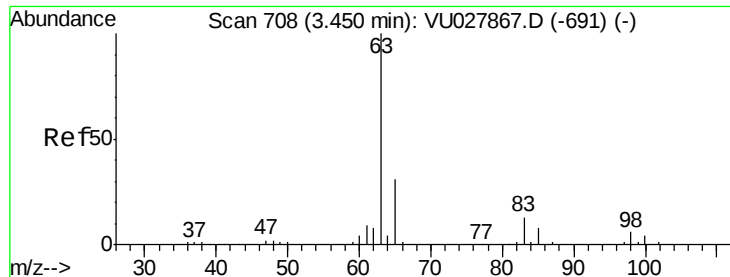
MMDadoda
11/1/2018 11:15:41 AM



#18
trans-1,2-Dichloroethene
Concen: 0.335 ug/L
RT: 2.99 min Scan# 564
Delta R.T. 0.00 min
Lab File: VU027875.D
Acq: 30 Oct 2018 15:33

Tgt Ion	Ratio	Lower	Upper
96	100		
61	128.0	115.2	214.0
98	61.4	44.0	81.8





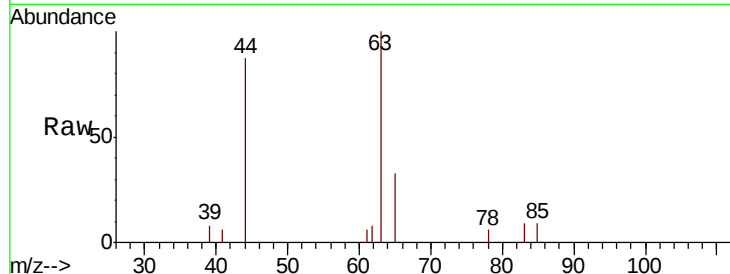
#19
 1,1-Dichloroethane
 Concen: 0.337 ug/L
 RT: 3.45 min Scan# 708
 Delta R.T. 0.00 min
 Lab File: VU027875.D
 Acq: 30 Oct 2018 15:33

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

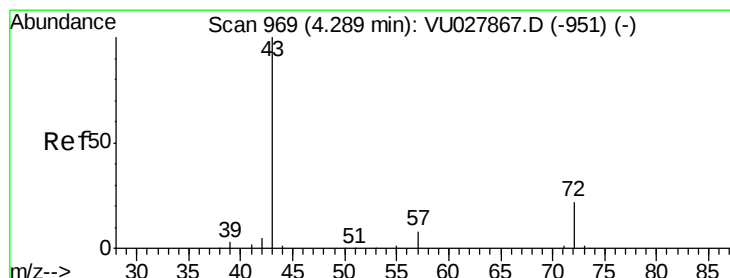
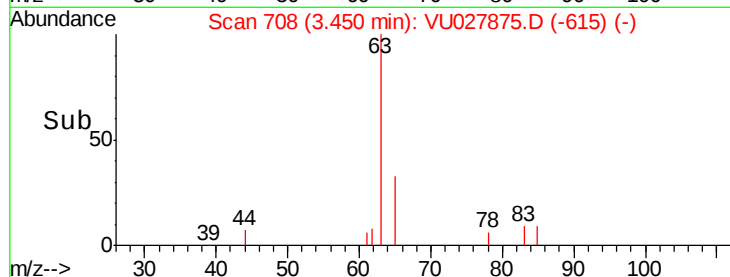
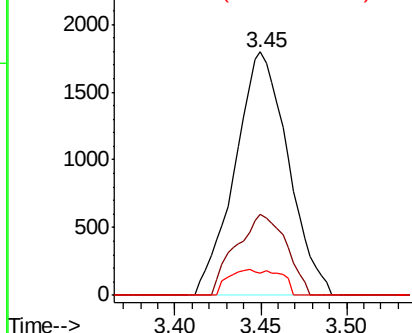
Tot Ion	Ratio	Lower	Upper
63	100		
65	33.1	21.8	40.4
83	9.2	9.4	17.4

Manual Integrations
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MMDadoda
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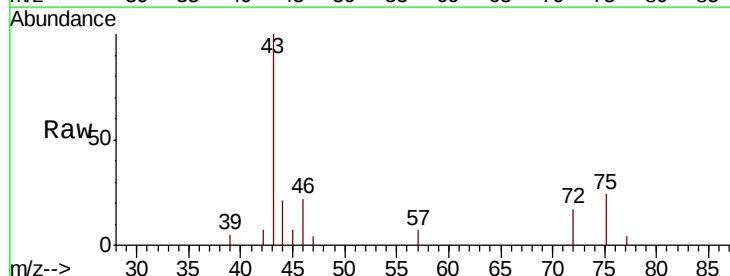


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

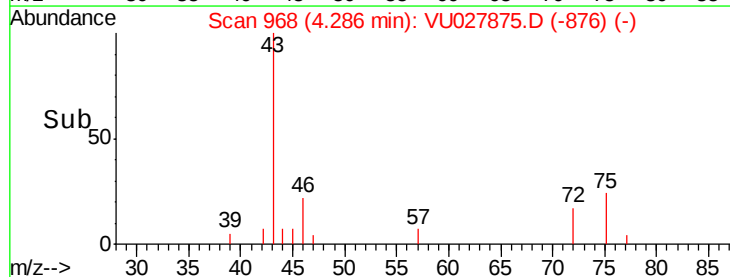
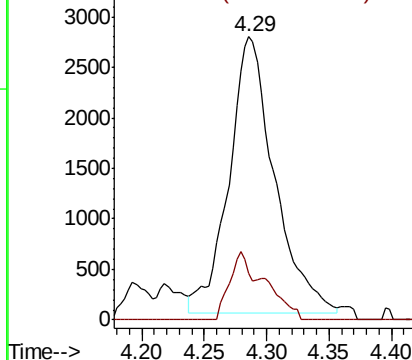


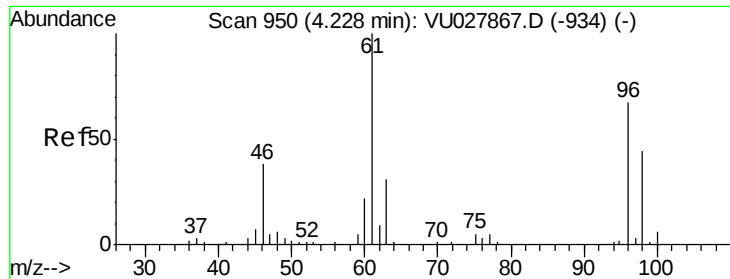
#21
 2-Butanone
 Concen: 3.293 ug/L m
 RT: 4.29 min Scan# 968
 Delta R.T. -0.00 min
 Lab File: VU027875.D
 Acq: 30 Oct 2018 15:33

Tgt Ion	Ratio	Lower	Upper
43	100		
72	12.2	10.9	32.9



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 72.10 (71.80 to 72.80): VU0





#22

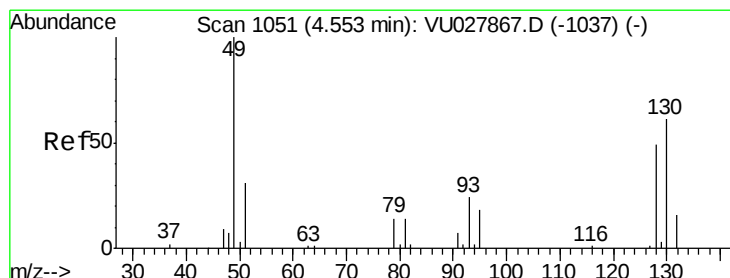
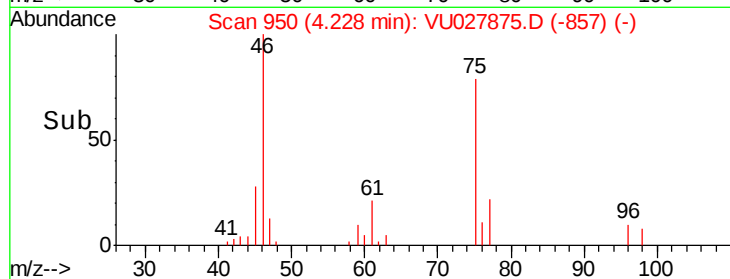
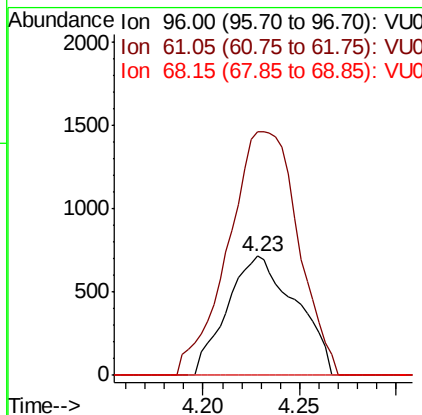
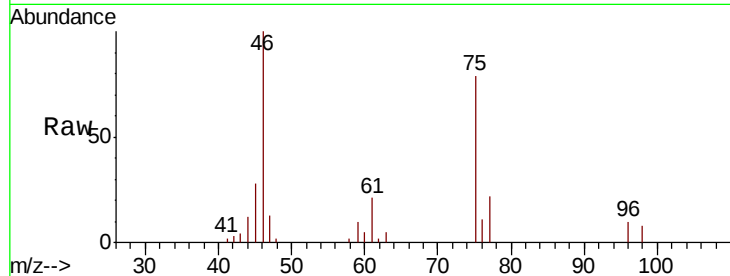
cis-1,2-Dichloroethene
Concen: 0.281 ug/L
RT: 4.23 min Scan# 950
Delta R.T. 0.00 min
Lab File: VU027875.D
Acq: 30 Oct 2018 15:33

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
96	100		
61	204.5	104.0	193.2#
68	0.0	0.0	0.0

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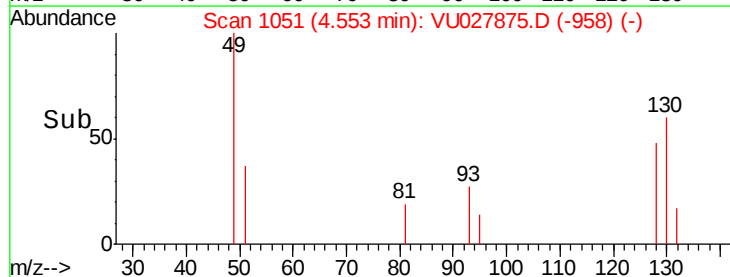
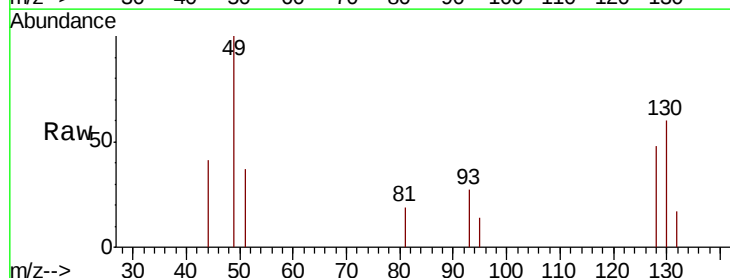
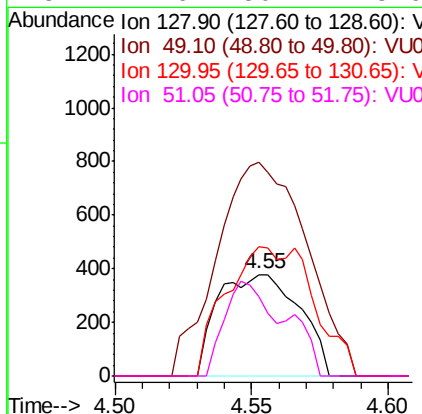
MMDadoda
11/1/2018 11:15:41 AM

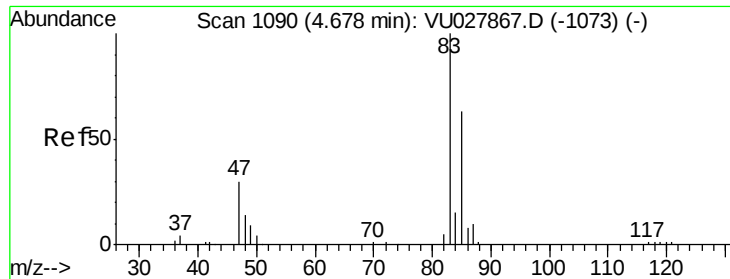


#23

Bromochloromethane
Concen: 0.301 ug/L
RT: 4.55 min Scan# 1051
Delta R.T. 0.00 min
Lab File: VU027875.D
Acq: 30 Oct 2018 15:33

Tgt Ion	Ratio	Lower	Upper
128	100		
49	210.3	142.0	263.8
130	126.9	86.1	159.9
51	77.6	50.4	75.6#





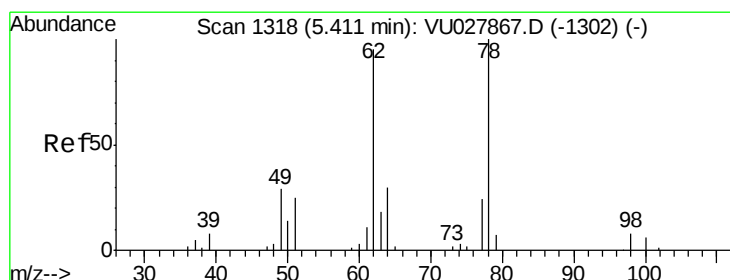
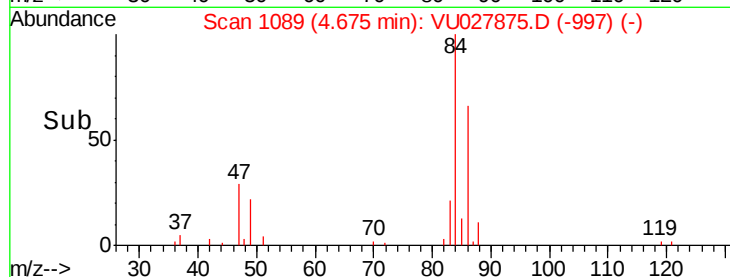
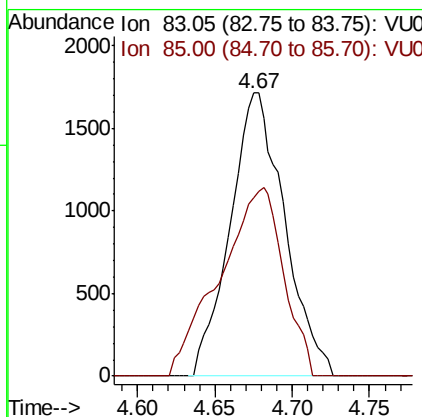
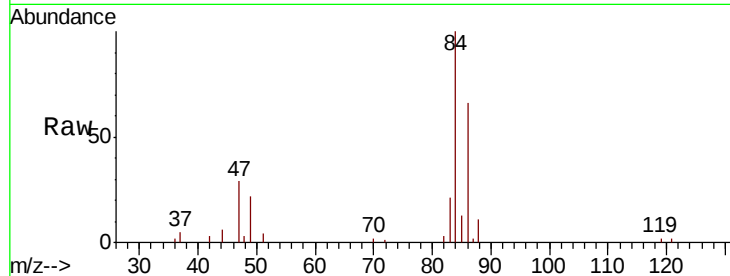
#25
Chloroform
Concen: 0.360 ug/L
RT: 4.67 min Scan# 1089
Delta R.T. -0.00 min
Lab File: VU027875.D
Acq: 30 Oct 2018 15:33

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion: 83 Resp: 4192
Ion Ratio Lower Upper
83 100
85 63.0 44.0 81.8

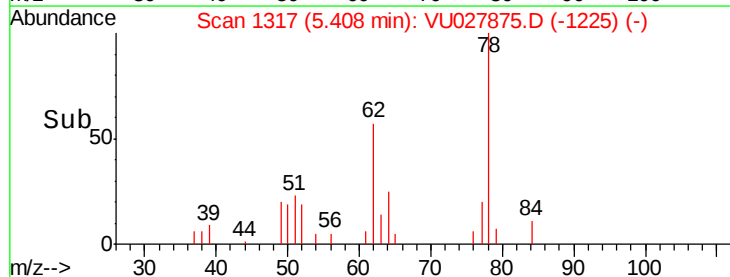
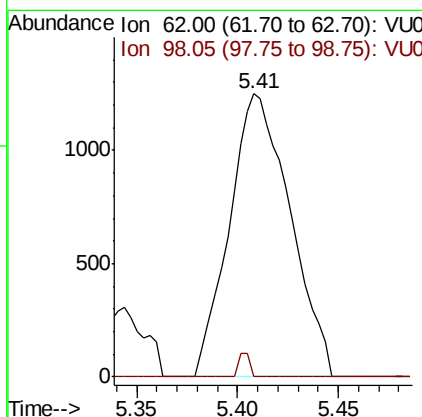
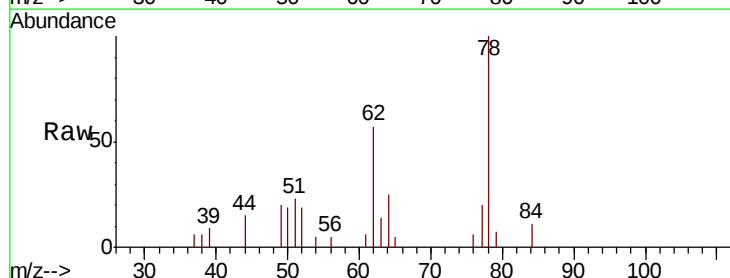
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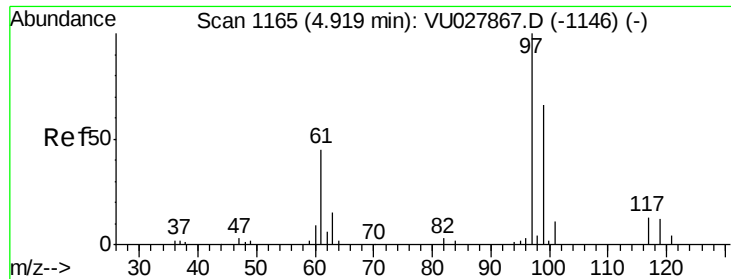
MMDadoda
11/1/2018 11:15:41 AM



#27
1,2-Dichloroethane
Concen: 0.323 ug/L
RT: 5.41 min Scan# 1317
Delta R.T. -0.00 min
Lab File: VU027875.D
Acq: 30 Oct 2018 15:33

Tgt Ion: 62 Resp: 2622
Ion Ratio Lower Upper
62 100
98 0.0 6.3 9.5#





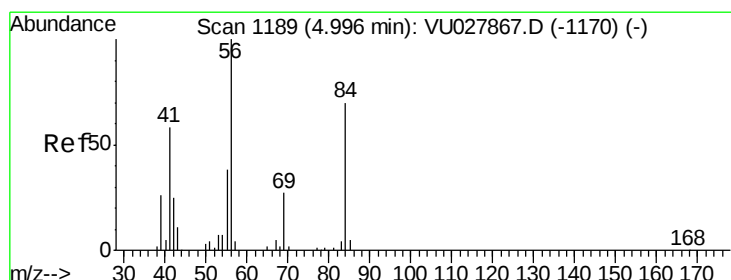
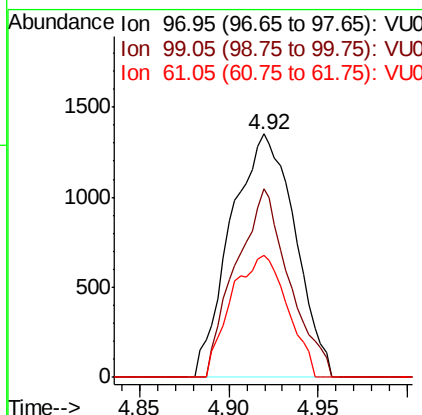
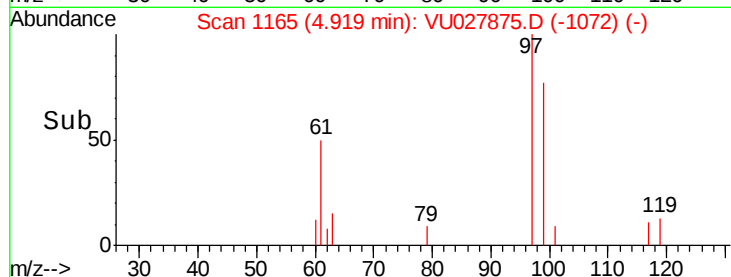
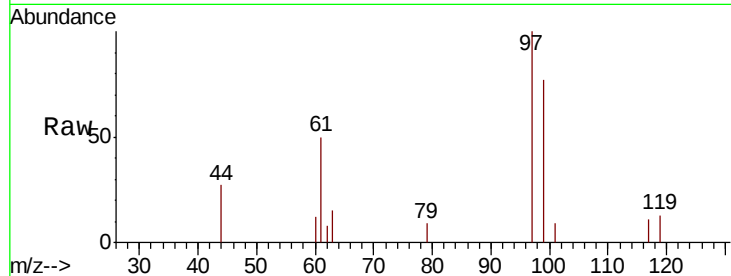
#29
1,1,1-Trichloroethane
Concen: 0.329 ug/L
RT: 4.92 min Scan# 1165
Delta R.T. 0.00 min
Lab File: VU027875.D
Acq: 30 Oct 2018 15:33

Instrument :
MSVOA_U
ClientSampled :
MDL04

Tot Ion	Ratio	Lower	Upper
97	100		
99	64.7	50.6	76.0
61	44.0	35.8	53.6

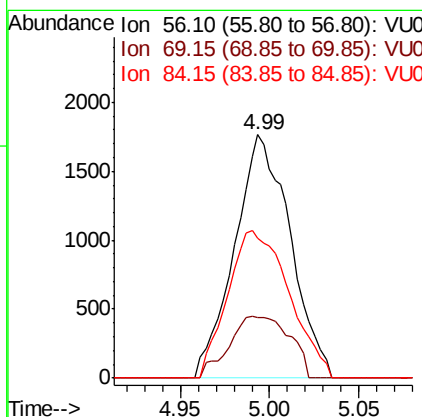
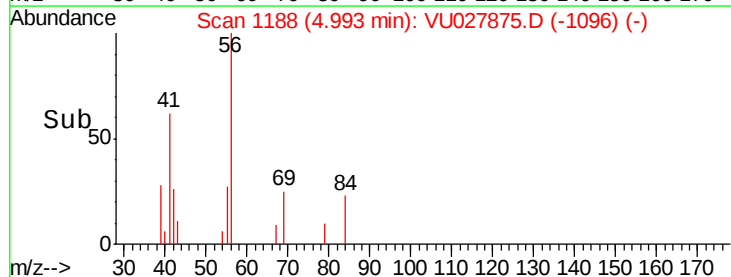
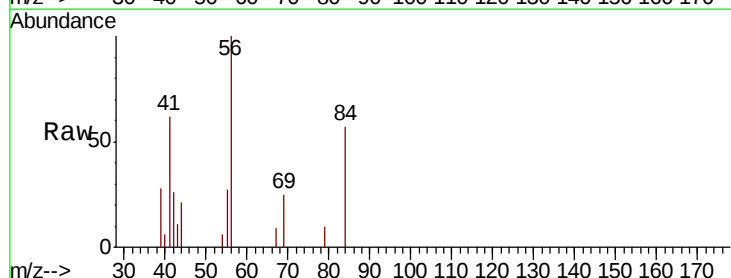
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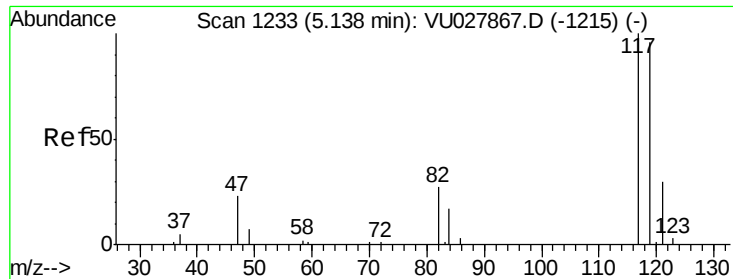
MMDadoda
11/1/2018 11:15:41 AM



#30
Cyclohexane
Concen: 0.319 ug/L
RT: 4.99 min Scan# 1188
Delta R.T. -0.00 min
Lab File: VU027875.D
Acq: 30 Oct 2018 15:33

Tgt Ion	Ratio	Lower	Upper
56	100		
69	27.4	22.7	34.1
84	66.7	58.1	87.1





#31

Carbon tetrachloride

Concen: 0.334 ug/L

RT: 5.13 min Scan# 1229

Delta R.T. -0.01 min

Lab File: VU027875.D

Acq: 30 Oct 2018 15:33

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion:117 Resp: 2941

Ion Ratio Lower Upper

117 100

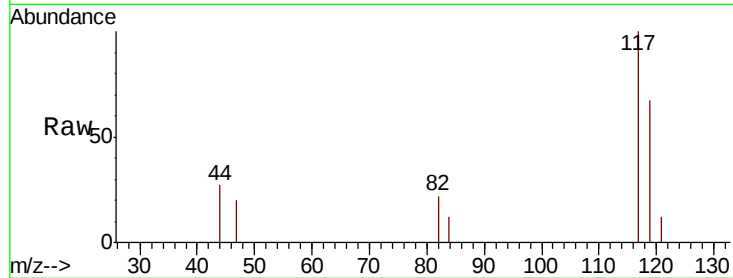
119 95.0 77.1 115.7

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Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

1500

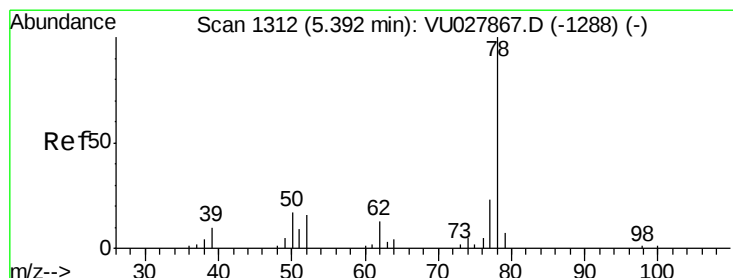
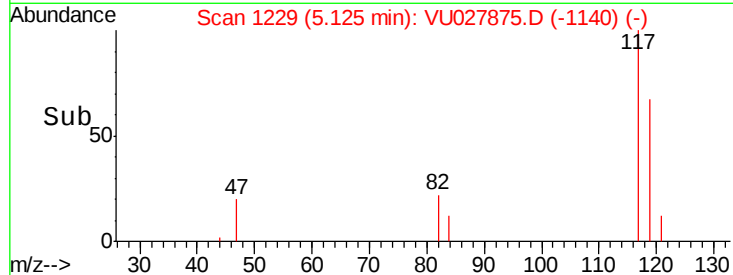
1000

500

0

Time-->

5.10 5.15 5.20



#33

Benzene

Concen: 0.339 ug/L

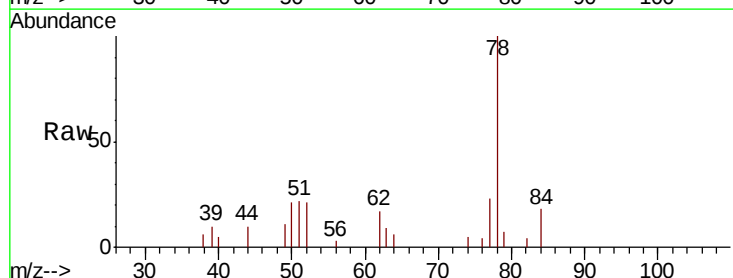
RT: 5.40 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VU027875.D

Acq: 30 Oct 2018 15:33

Tgt Ion: 78 Resp: 8551



Abundance Ion 78.10 (77.80 to 78.80): VU0

4000

3000

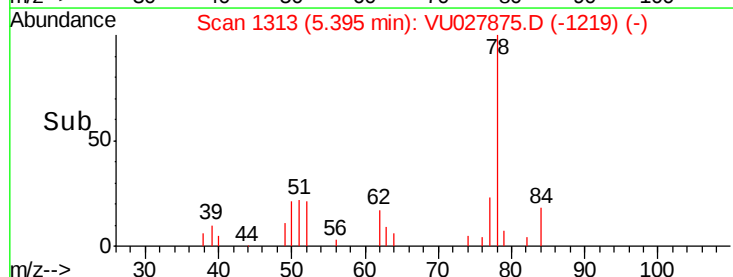
2000

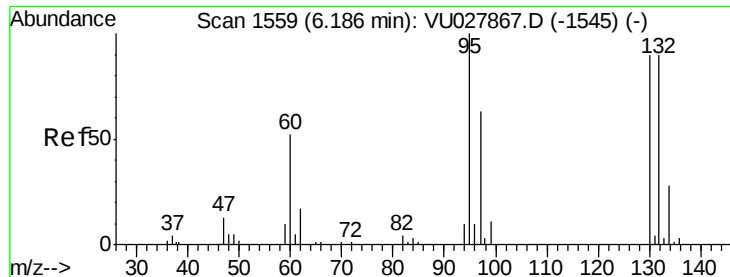
1000

0

Time-->

5.35 5.40 5.45





#34

Trichloroethene

Concen: 0.316 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VU027875.D

Acq: 30 Oct 2018 15:33

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion: 95 Resp: 2073

Ion Ratio Lower Upper

95 100

97 70.7 44.0 81.6

132 96.6 63.3 117.5

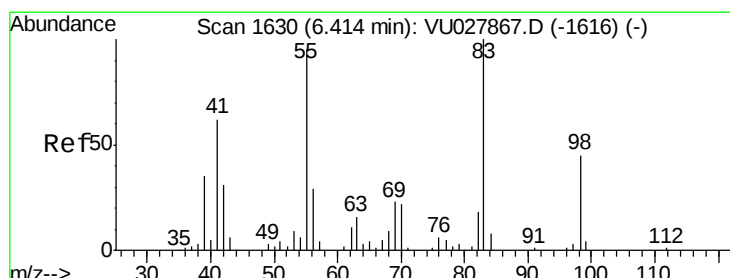
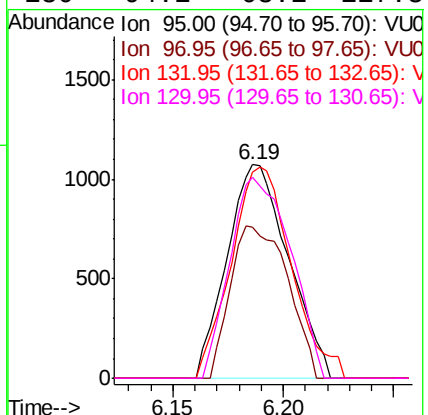
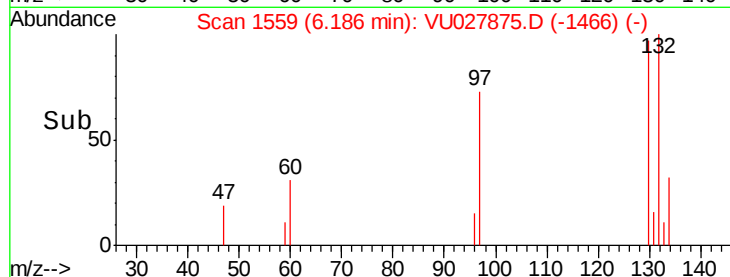
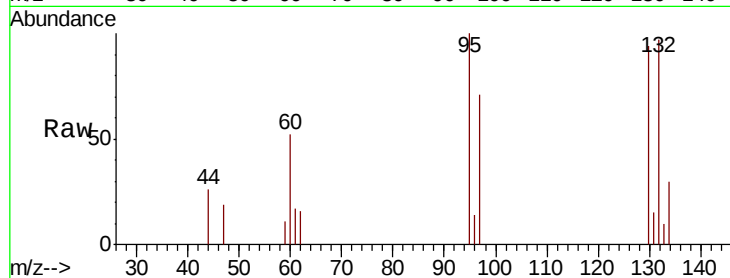
130 94.1 63.1 117.3

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#35

Methylcyclohexane

Concen: 0.316 ug/L

RT: 6.42 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VU027875.D

Acq: 30 Oct 2018 15:33

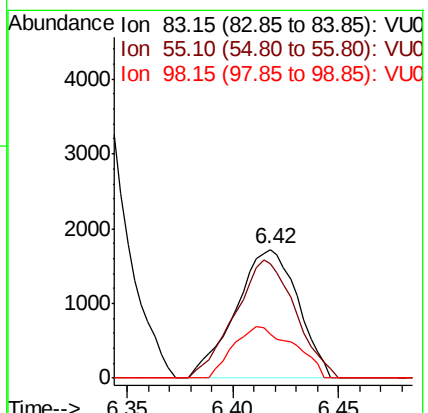
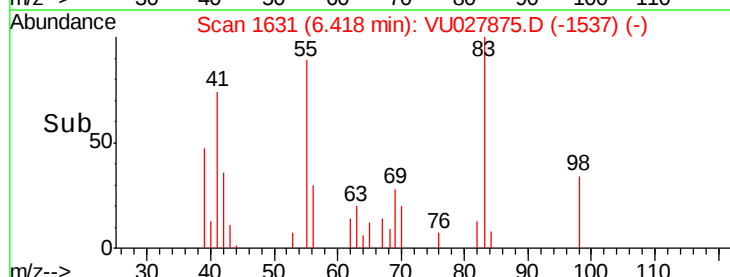
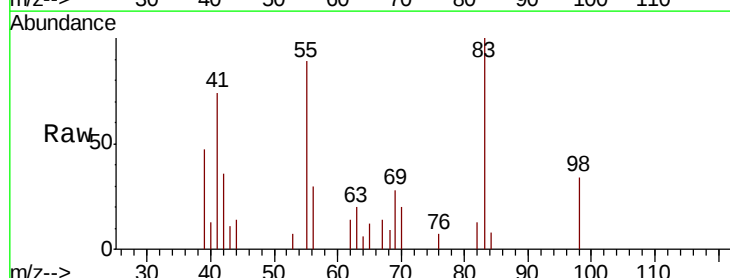
Tgt Ion: 83 Resp: 3526

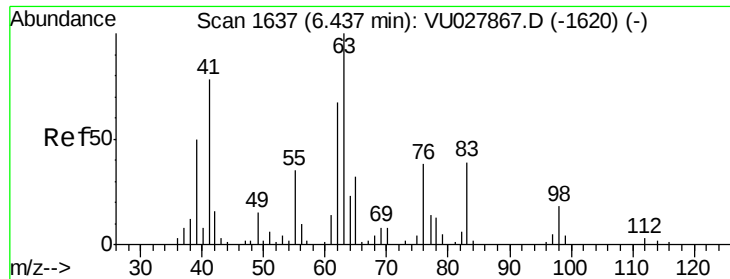
Ion Ratio Lower Upper

83 100

55 89.1 73.4 110.0

98 38.9 35.3 52.9





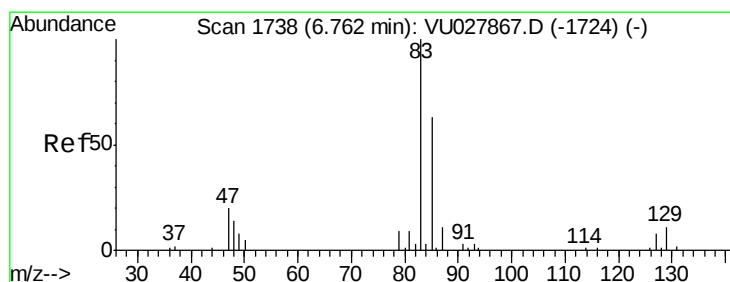
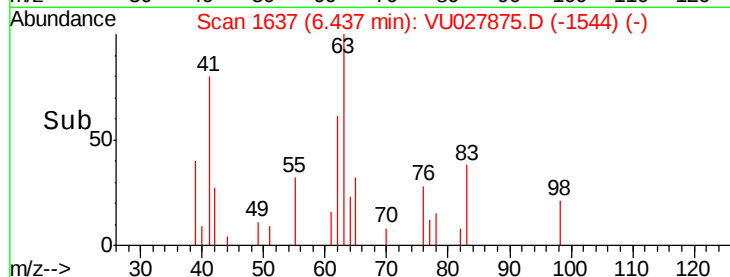
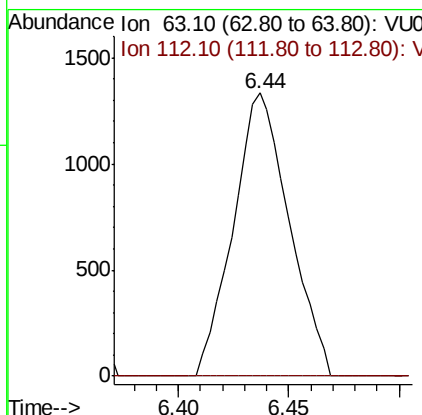
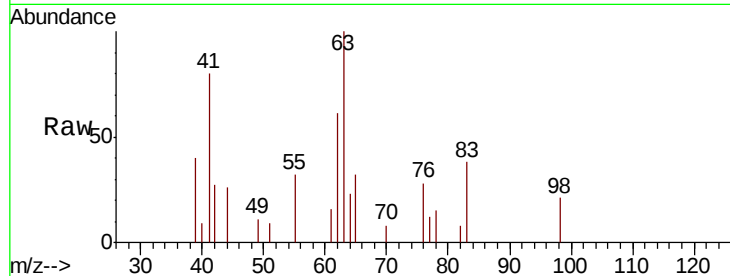
#37
 1,2-Dichloropropane
 Concen: 0.326 ug/L
 RT: 6.44 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VU027875.D
 Acq: 30 Oct 2018 15:33

Instrument :
 MSVOA_U
 ClientSampled :
 MDL04

Tot Ion: 63 Resp: 2342
 Ion Ratio Lower Upper
 63 100
 112 0.0 2.6 3.8#

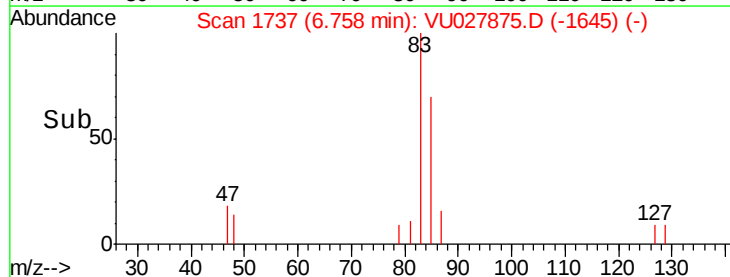
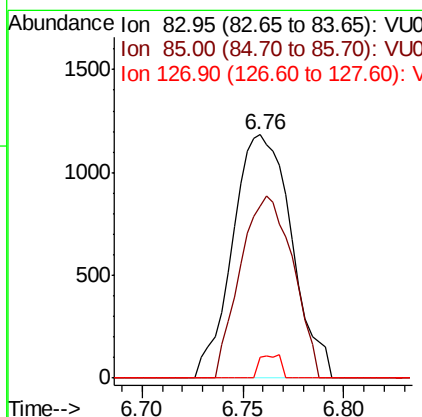
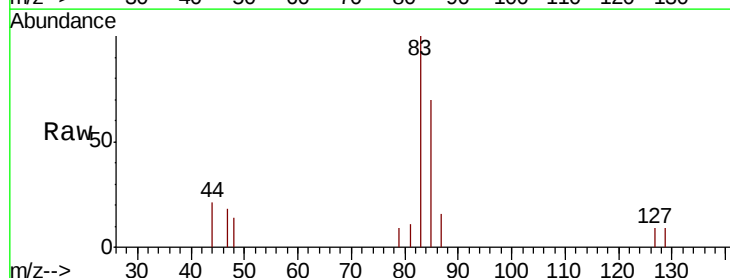
Manual Integrations
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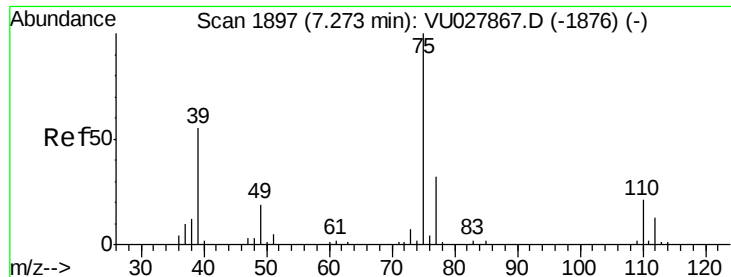
MMDadoda
 11/1/2018 11:15:41 AM



#38
 Bromodichloromethane
 Concen: 0.288 ug/L
 RT: 6.76 min Scan# 1737
 Delta R.T. -0.00 min
 Lab File: VU027875.D
 Acq: 30 Oct 2018 15:33

Tgt Ion: 83 Resp: 2418
 Ion Ratio Lower Upper
 83 100
 85 70.4 43.8 81.4
 127 8.6 6.4 9.6





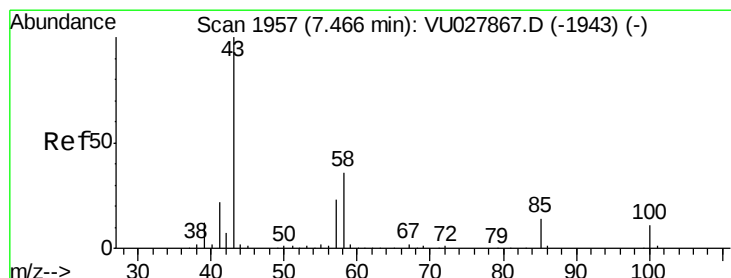
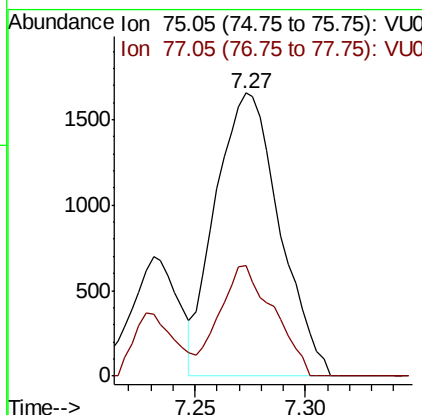
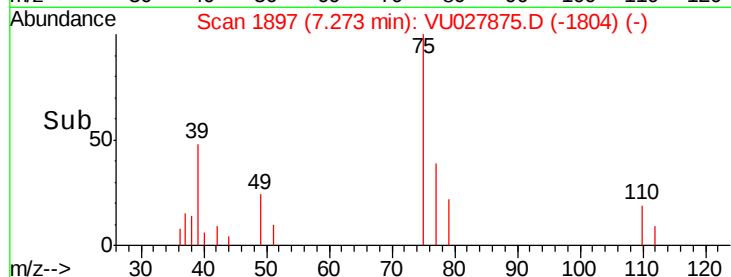
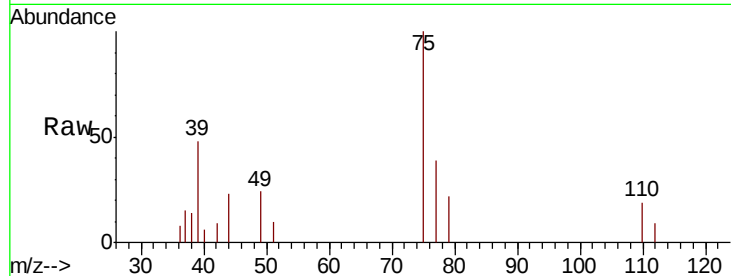
#39
 cis-1,3-Dichloropropene
 Concen: 0.324 ug/L
 RT: 7.27 min Scan# 1897
 Delta R.T. 0.00 min
 Lab File: VU027875.D
 Acq: 30 Oct 2018 15:33

Instrument :
 MSVOA_U
 ClientSampled :
 MDL04

Tot Ion	Ratio	Lower	Upper
75	100		
77	39.2	22.2	41.2

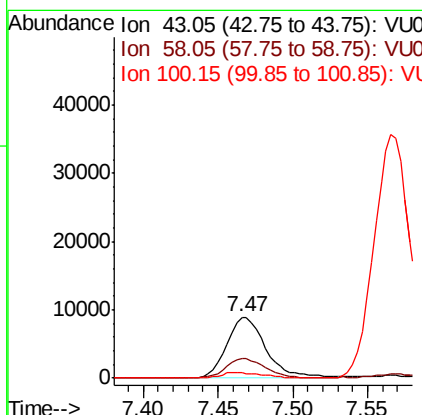
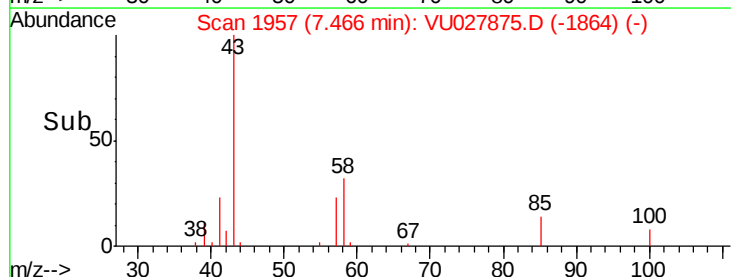
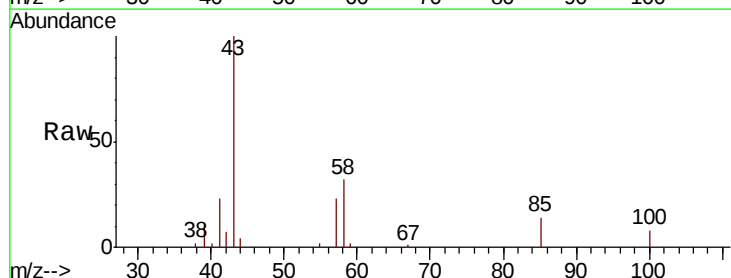
Manual Integrations
 APPROVED

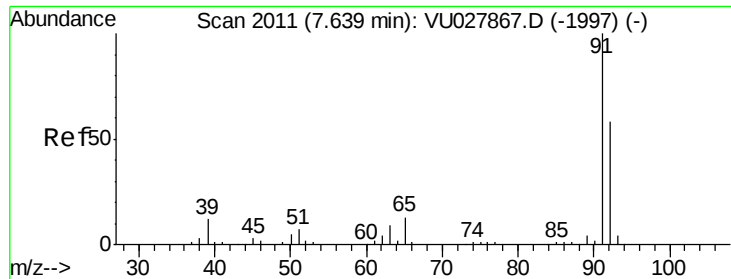
MMDadoda
 11/1/2018 11:15:41 AM



#40
 4-Methyl-2-pentanone
 Concen: 3.216 ug/L
 RT: 7.47 min Scan# 1957
 Delta R.T. 0.00 min
 Lab File: VU027875.D
 Acq: 30 Oct 2018 15:33

Tgt Ion	Ratio	Lower	Upper
43	100		
58	32.4	28.5	42.7
100	0.0	8.8	13.2#





#42

Toluene

Concen: 0.323 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU027875.D

Acq: 30 Oct 2018 15:33

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 91 Resp: 8525

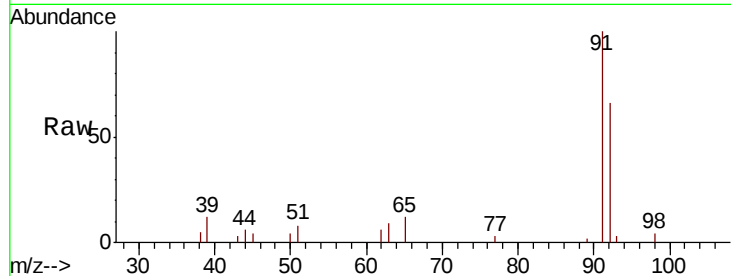
Ion Ratio Lower Upper

91 100

92 65.9 40.3 74.9

Manual Integrations
APPROVED

MMDadoda
11/1/2018 11:15:41 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

5000

4000

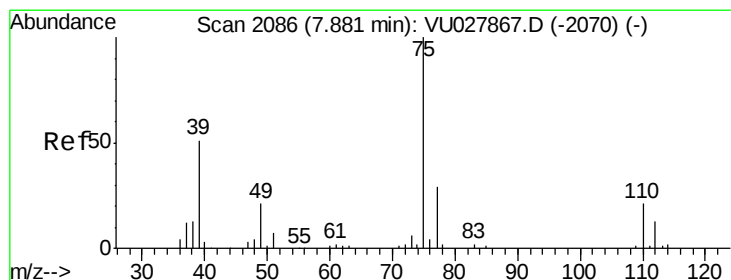
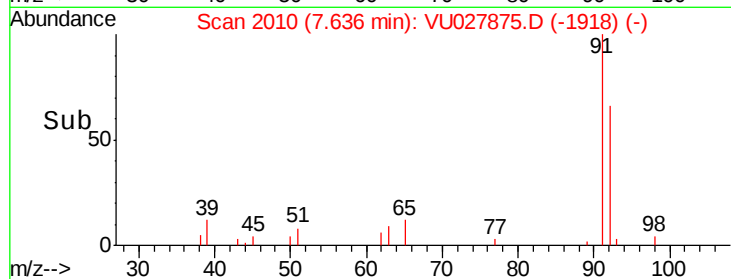
3000

2000

1000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.300 ug/L m

RT: 7.88 min Scan# 2087

Delta R.T. 0.00 min

Lab File: VU027875.D

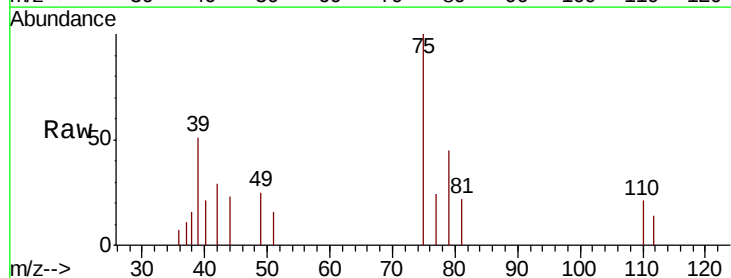
Acq: 30 Oct 2018 15:33

Tgt Ion: 75 Resp: 2650

Ion Ratio Lower Upper

75 100

77 23.8 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

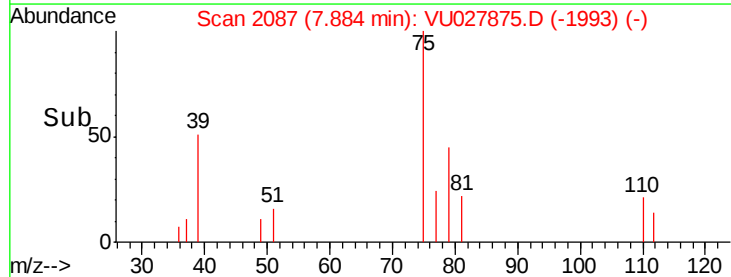
1500

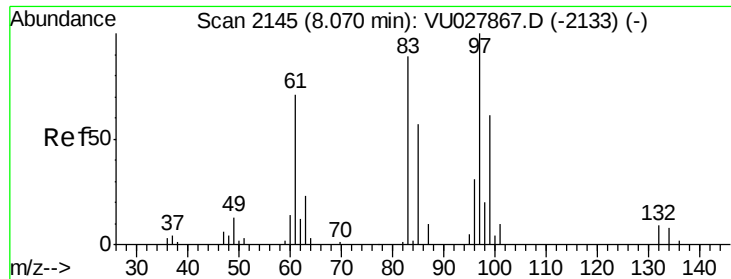
1000

500

0

Time-->





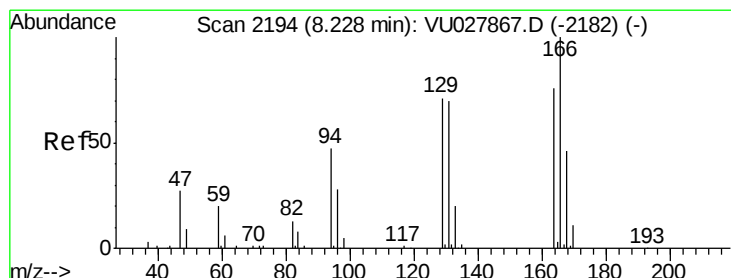
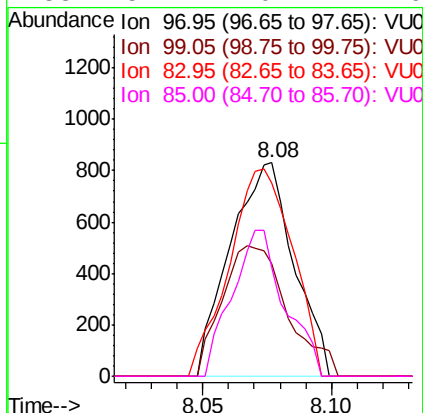
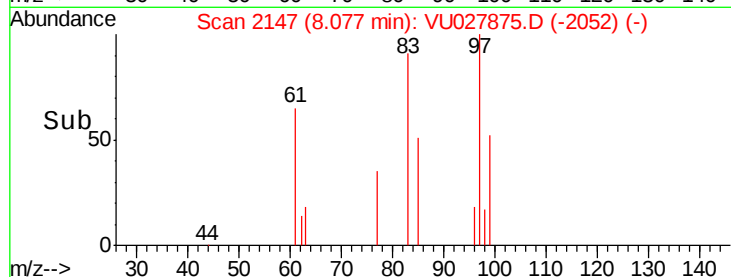
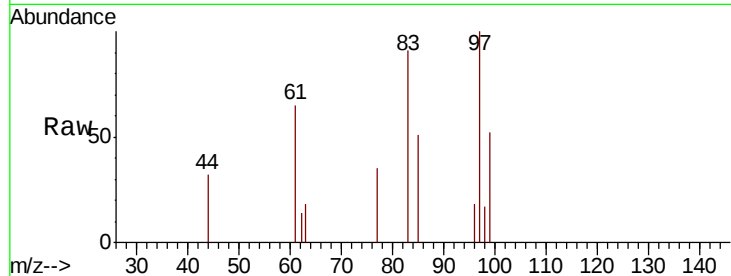
#45
1,1,2-Trichloroethane
Concen: 0.322 ug/L
RT: 8.08 min Scan# 2147
Delta R.T. 0.01 min
Lab File: VU027875.D
Acq: 30 Oct 2018 15:33

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion:	97	Resp:	1423
Ion	Ratio	Lower	Upper
97	100		
99	52.5	42.9	79.7
83	90.7	62.2	115.6
85	51.1	40.2	74.6

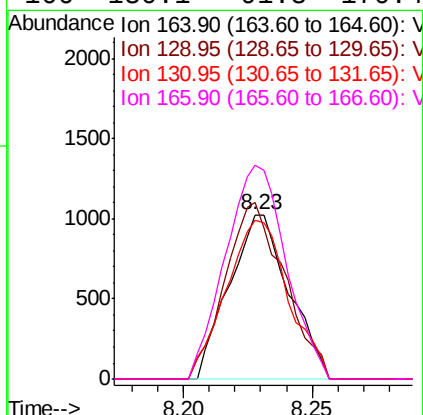
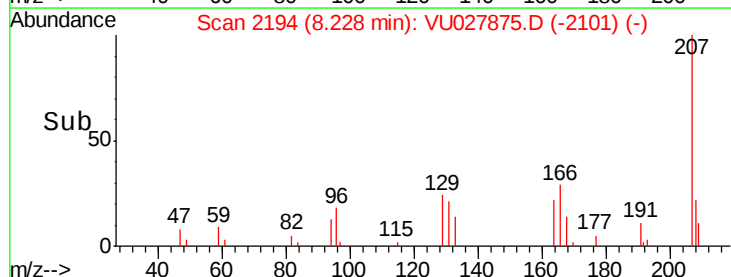
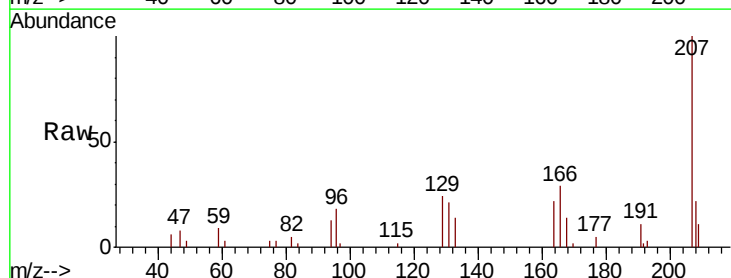
Manual Integrations
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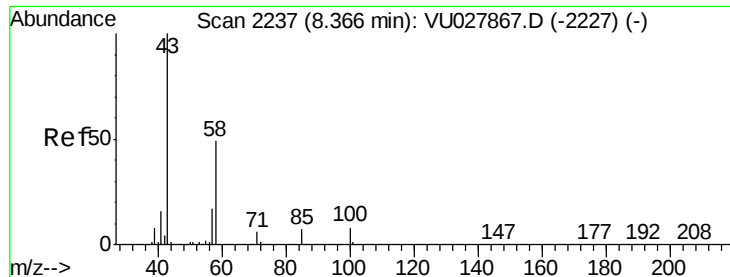
MMDadoda
11/1/2018 11:15:41 AM



#47
Tetrachloroethene
Concen: 0.327 ug/L
RT: 8.23 min Scan# 2194
Delta R.T. 0.00 min
Lab File: VU027875.D
Acq: 30 Oct 2018 15:33

Tgt Ion:	164	Resp:	1650
Ion	Ratio	Lower	Upper
164	100		
129	108.0	64.9	120.5
131	96.5	64.3	119.5
166	130.1	91.8	170.4





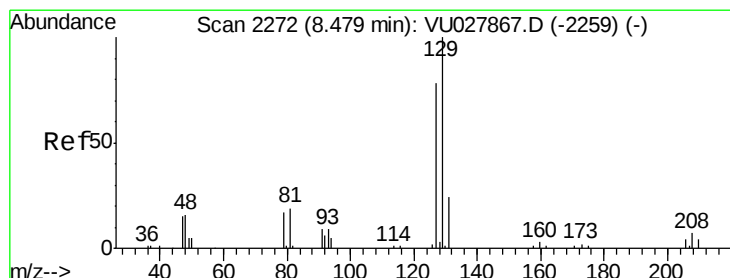
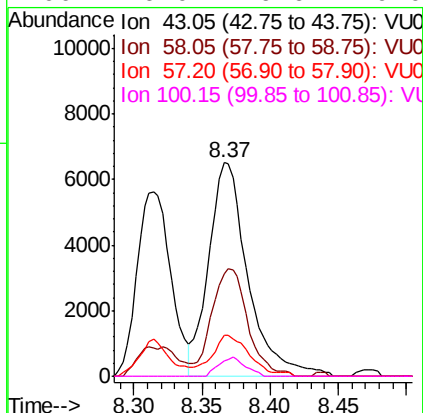
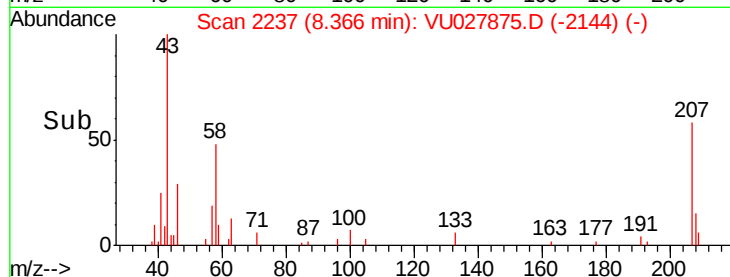
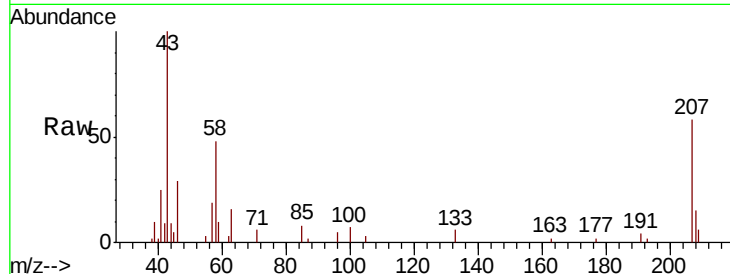
#48
2-Hexanone
Concen: 3.569 ug/L
RT: 8.37 min Scan# 2237
Delta R.T. 0.00 min
Lab File: VU027875.D
Acq: 30 Oct 2018 15:33

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
58	45.9	38.9	58.3	
57	15.2	13.3	19.9	
100	6.0	6.6	10.0	

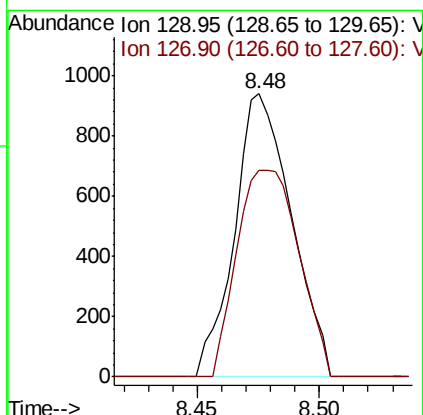
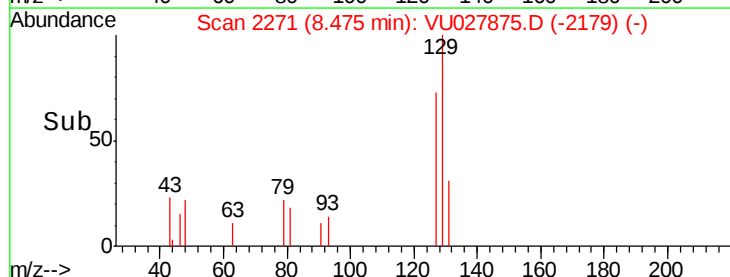
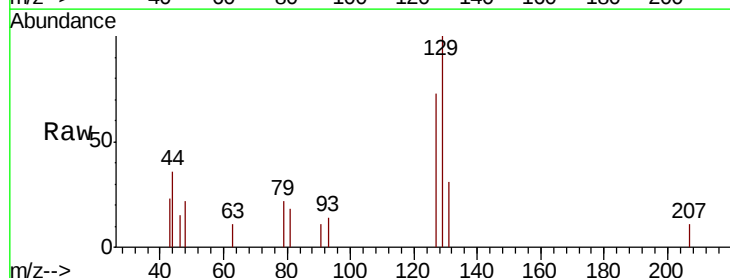
Manual Integrations
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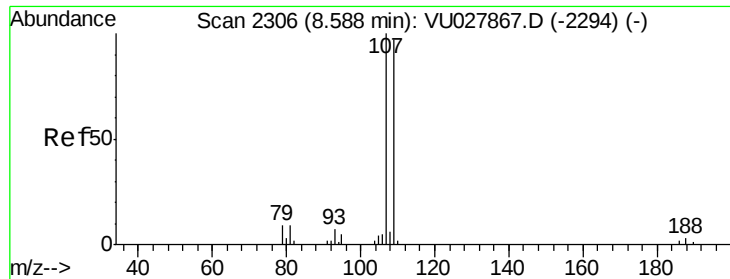
MMDadoda
11/1/2018 11:15:41 AM



#49
Dibromochloromethane
Concen: 0.285 ug/L
RT: 8.48 min Scan# 2271
Delta R.T. -0.00 min
Lab File: VU027875.D
Acq: 30 Oct 2018 15:33

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	73.0	54.5	101.1	





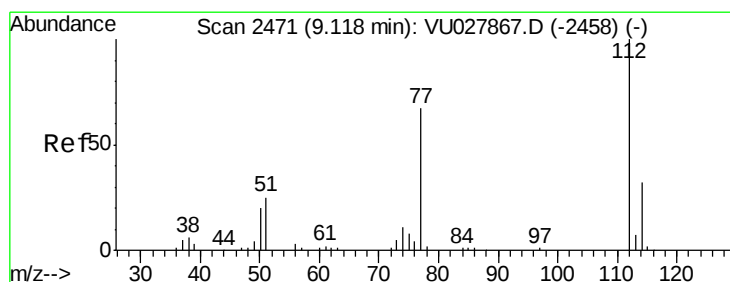
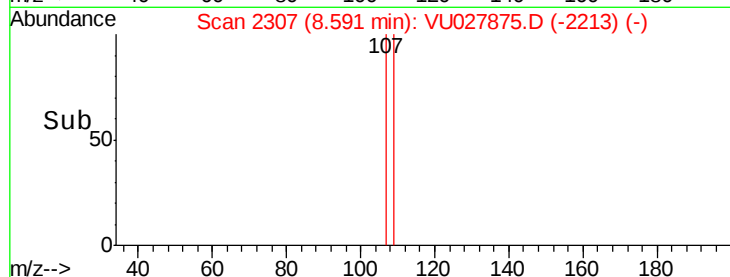
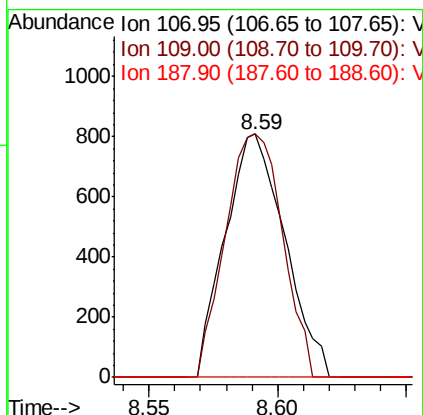
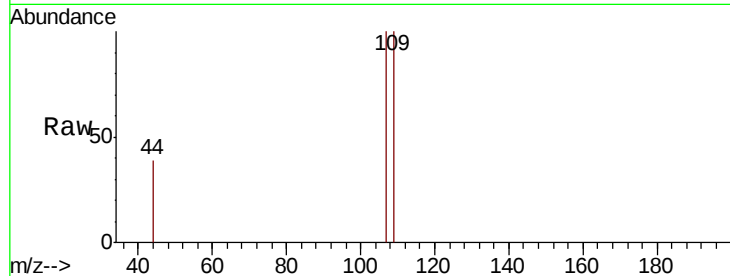
#50
1,2-Dibromoethane
Concen: 0.309 ug/L
RT: 8.59 min Scan# 2307
Delta R.T. 0.00 min
Lab File: VU027875.D
Acq: 30 Oct 2018 15:33

Instrument :
MSVOA_U
ClientSampled :
MDL04

Tot Ion	Ratio	Resp	Lower	Upper
107	100	1307		
109	99.9	68.0	126.4	
188	0.0	2.7	4.1#	

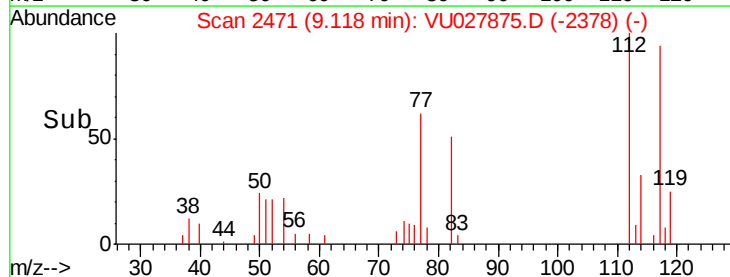
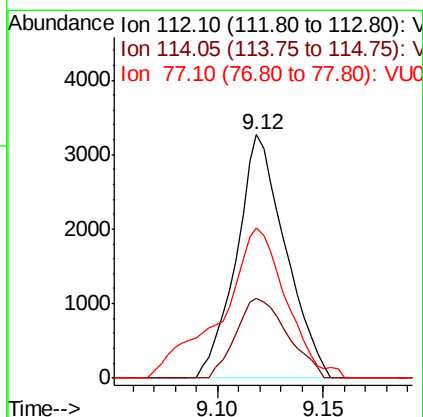
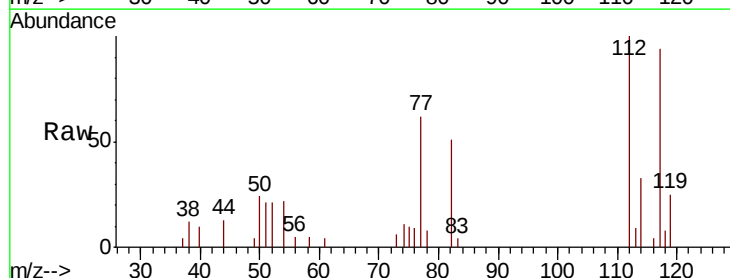
Manual Integrations
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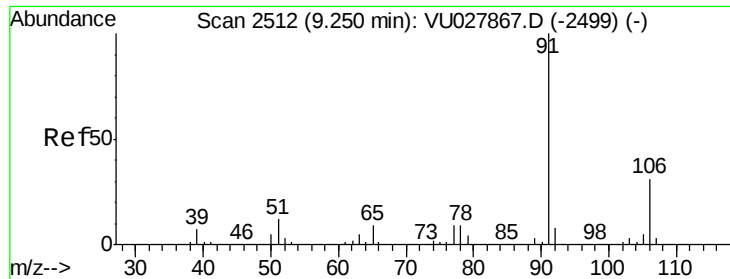
MMDadoda
11/1/2018 11:15:41 AM



#51
Chlorobenzene
Concen: 0.322 ug/L
RT: 9.12 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VU027875.D
Acq: 30 Oct 2018 15:33

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	5267		
114	33.0	22.0	41.0	
77	61.6	54.3	81.5	





#52

Ethylbenzene

Concen: 0.330 ug/L

RT: 9.25 min Scan# 2512

Delta R.T. 0.00 min

Lab File: VU027875.D

Acq: 30 Oct 2018 15:33

Tot Ion: 91 Resp: 9909

Ion Ratio Lower Upper

91 100

106 33.1 21.5 39.9

Instrument :

MSVOA_U

ClientSampled :

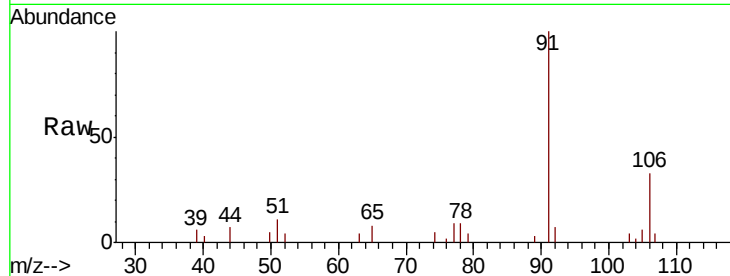
MDL04

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11/1/2018 11:15:41 AM



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

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

9.25

6000

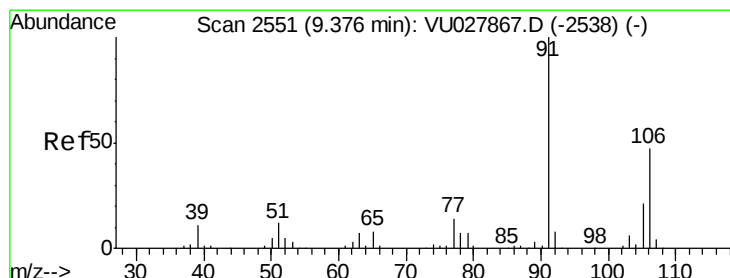
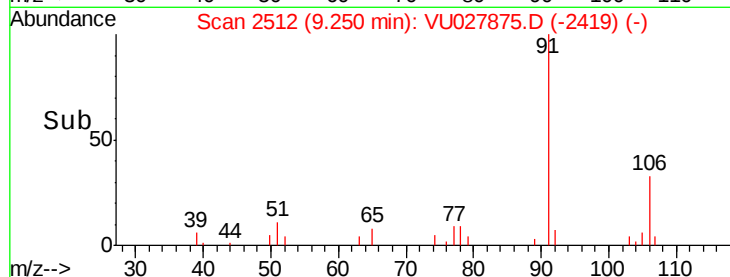
4000

2000

0

9.20 9.25 9.30

Time-->



#53

m,p-xylene

Concen: 0.295 ug/L

RT: 9.38 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VU027875.D

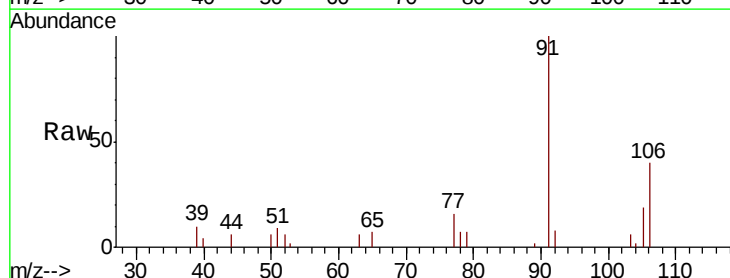
Acq: 30 Oct 2018 15:33

Tgt Ion: 106 Resp: 3218

Ion Ratio Lower Upper

106 100

91 248.3 148.7 276.1



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

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

9.38

5000

4000

3000

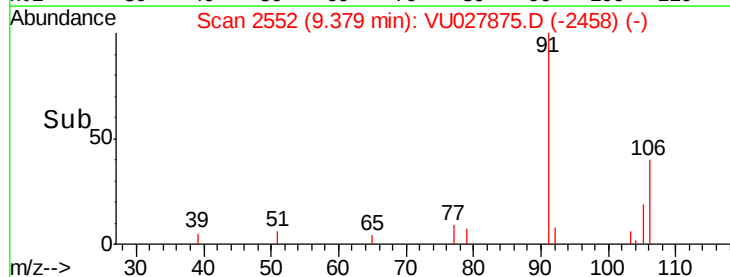
2000

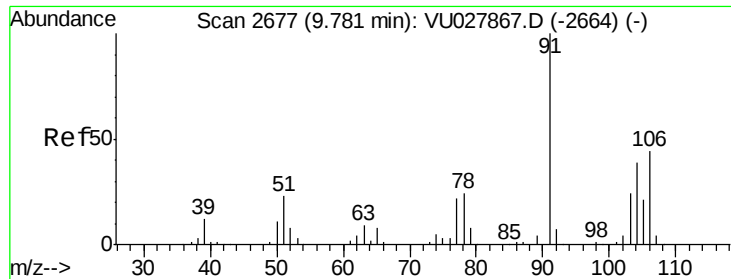
1000

0

9.35 9.40

Time-->





#54

o-xylene

Concen: 0.315 ug/L

RT: 9.78 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VU027875.D

Acq: 30 Oct 2018 15:33

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion:106 Resp: 3376

Ion Ratio Lower Upper

106 100

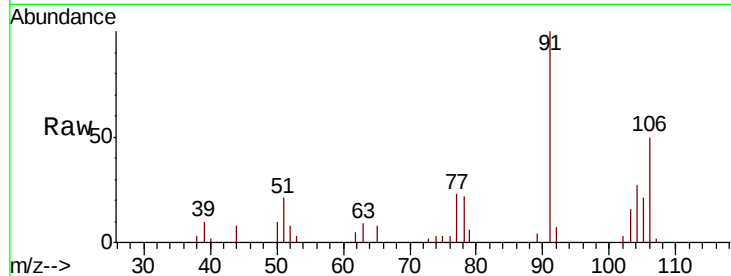
91 201.7 158.3 293.9

Manual Integrations

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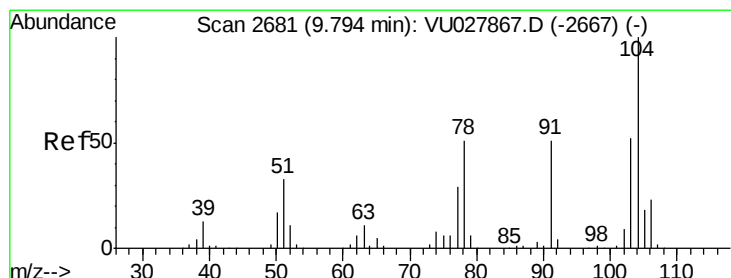
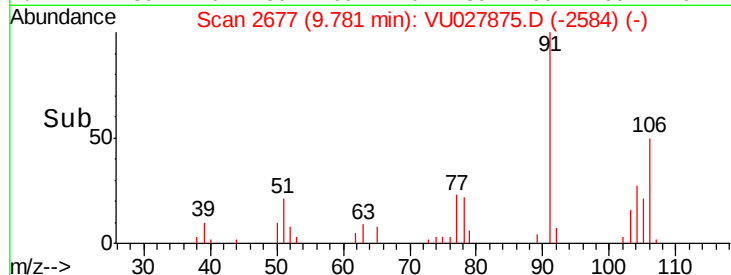
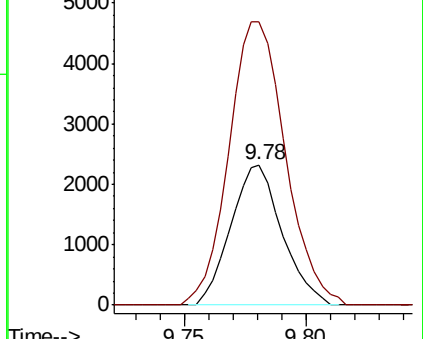
MMDadoda

11/1/2018 11:15:41 AM



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 0.310 ug/L

RT: 9.79 min Scan# 2681

Delta R.T. 0.00 min

Lab File: VU027875.D

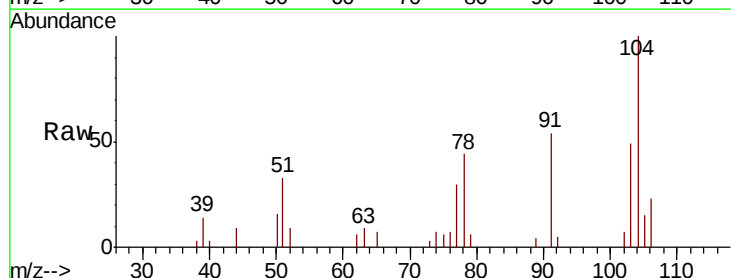
Acq: 30 Oct 2018 15:33

Tgt Ion:104 Resp: 5555

Ion Ratio Lower Upper

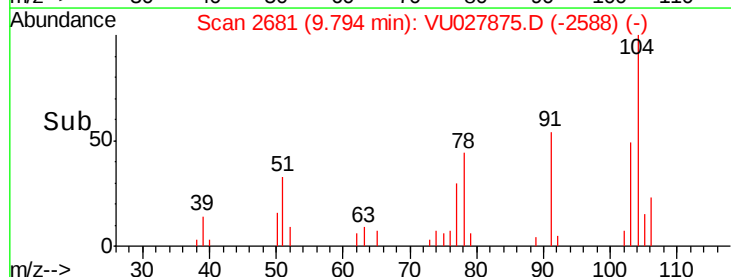
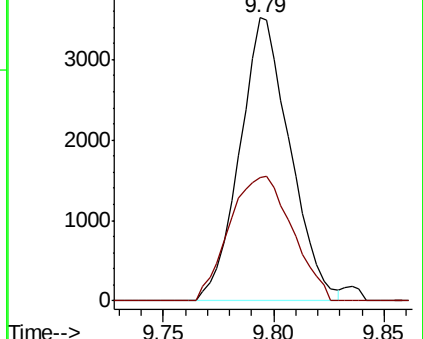
104 100

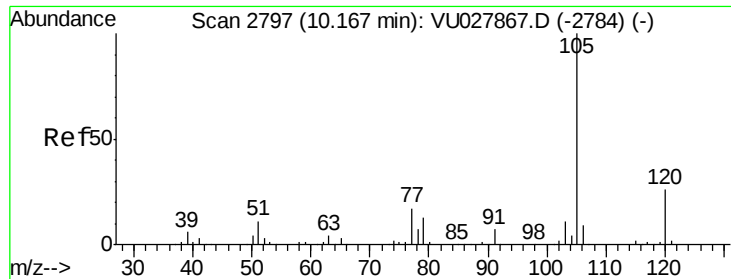
78 43.8 35.6 66.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 0.303 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU027875.D

Acq: 30 Oct 2018 15:33

Instrument :

MSVOA_U

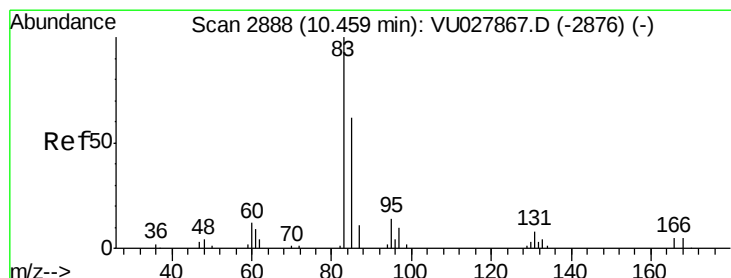
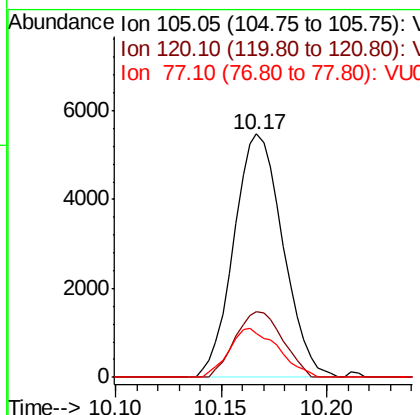
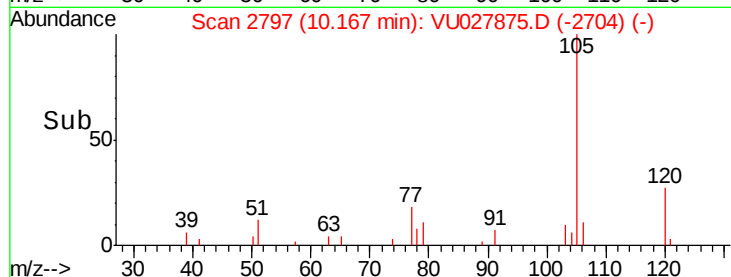
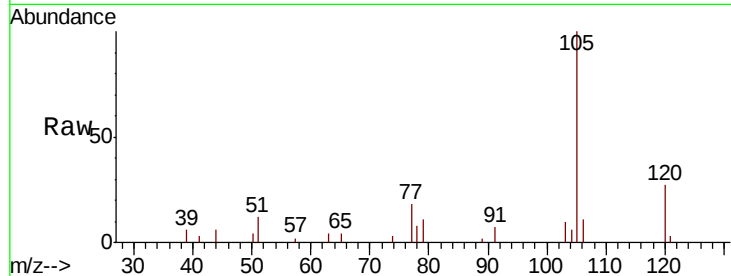
ClientSampled :

MDL04

Tot Ion:	105	Resp:	8848
Ion Ratio	Lower	Upper	
105	100		
120	26.1	20.2	30.2
77	20.2	13.4	20.2

Manual Integrations
APPROVED

MMDadoda
11/1/2018 11:15:41 AM



#58

1,1,2,2-Tetrachloroethane

Concen: 0.286 ug/L

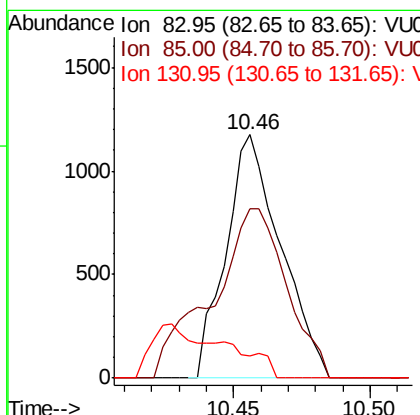
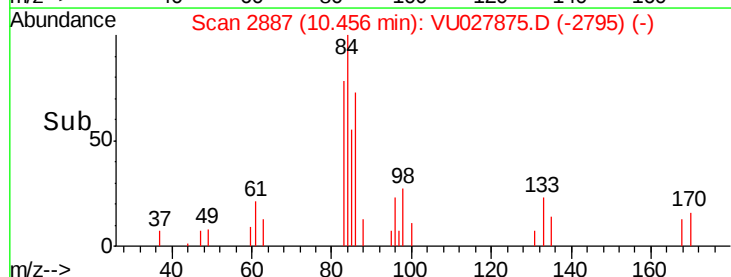
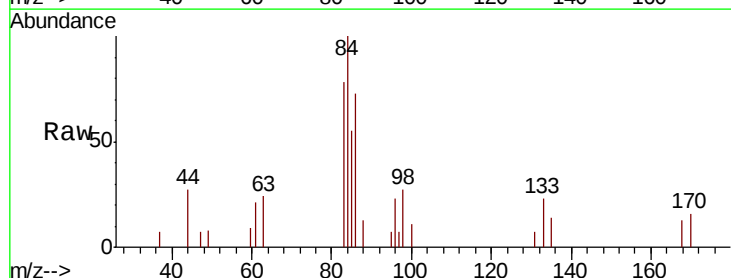
RT: 10.46 min Scan# 2887

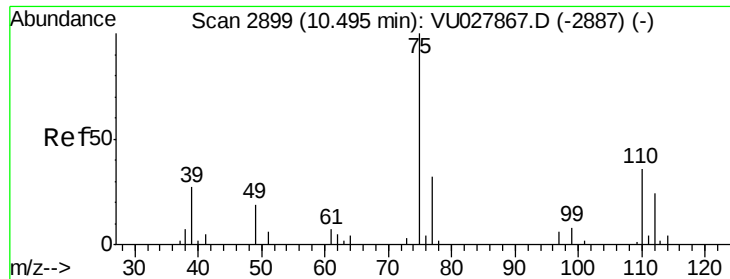
Delta R.T. -0.00 min

Lab File: VU027875.D

Acq: 30 Oct 2018 15:33

Tgt Ion:	83	Resp:	1644
Ion Ratio	Lower	Upper	
83	100		
85	69.7	44.4	82.4
131	9.4	6.8	10.2





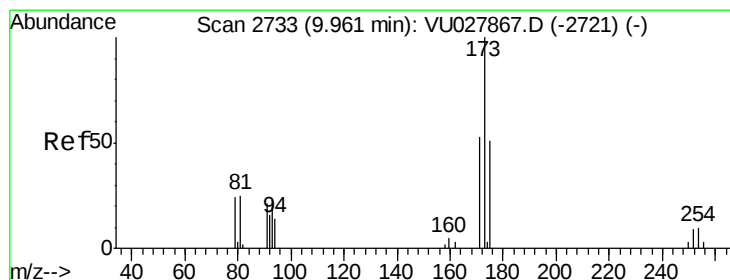
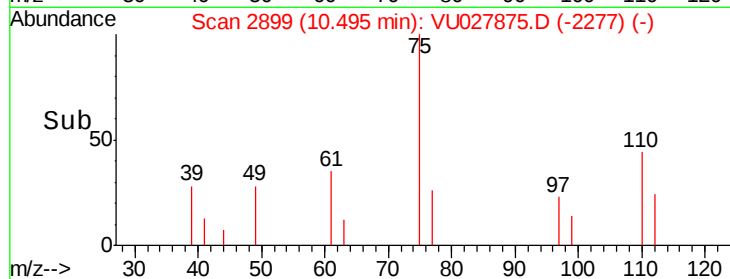
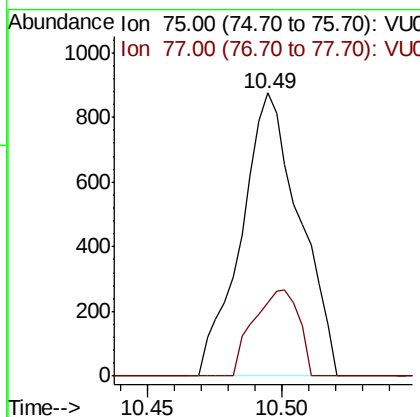
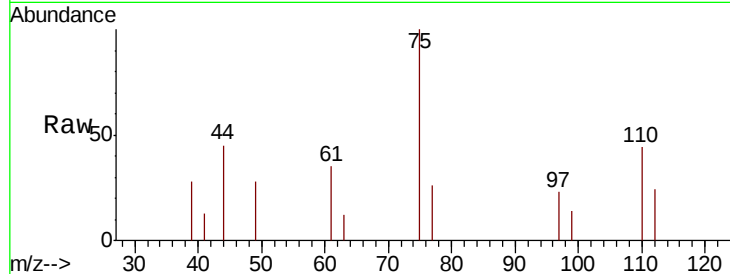
#59
 1,2,3-Trichloropropane
 Concen: 0.305 ug/L m
 RT: 10.49 min Scan# 2899
 Delta R.T. 0.00 min
 Lab File: VU027875.D
 Acq: 30 Oct 2018 15:33

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion: 75 Resp: 1326
 Ion Ratio Lower Upper
 75 100
 77 140.6 25.8 38.6#

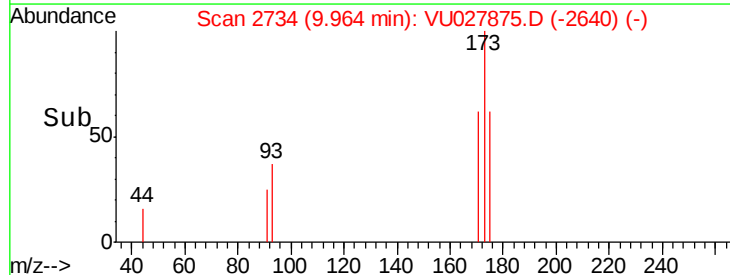
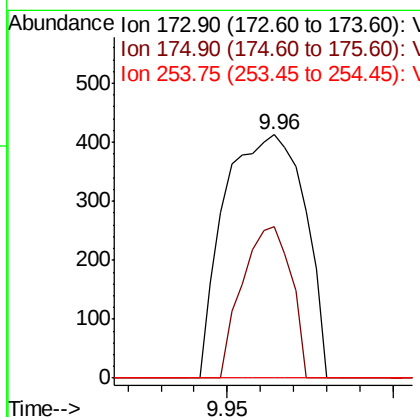
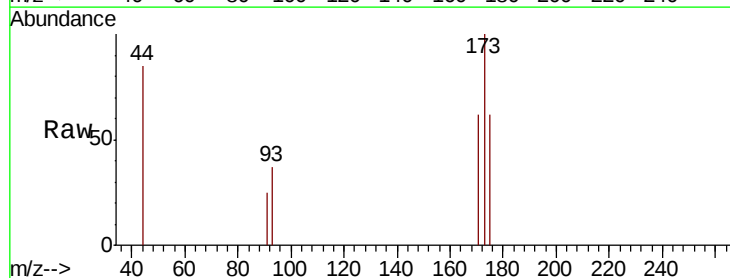
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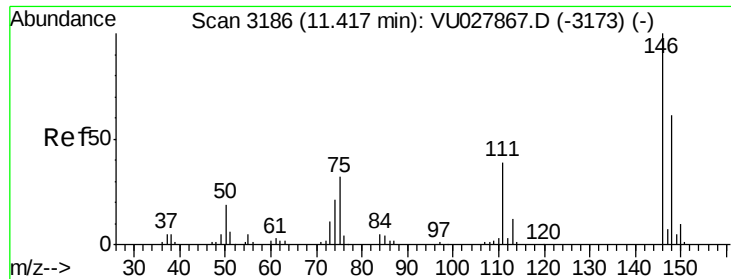
MMDadoda
 11/1/2018 11:15:41 AM



#61
 Bromoform
 Concen: 0.245 ug/L
 RT: 9.96 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VU027875.D
 Acq: 30 Oct 2018 15:33

Tgt Ion: 173 Resp: 694
 Ion Ratio Lower Upper
 173 100
 175 37.8 38.3 57.5#
 254 0.0 7.8 11.6#





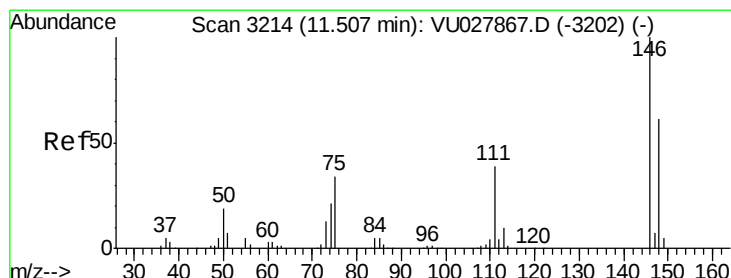
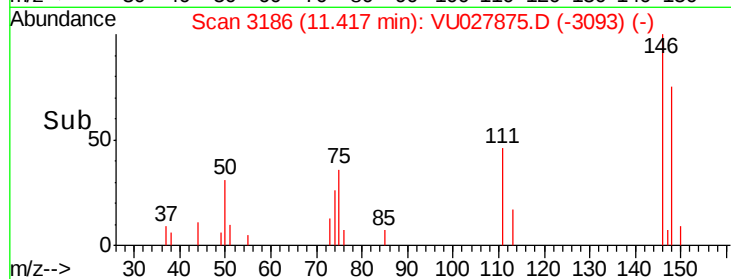
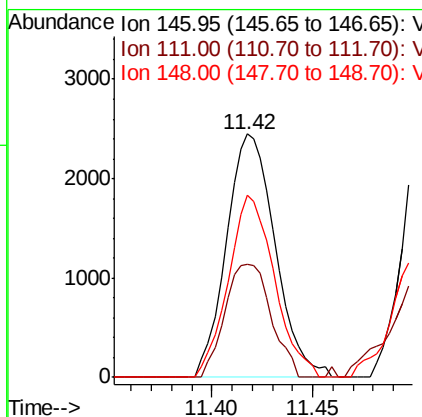
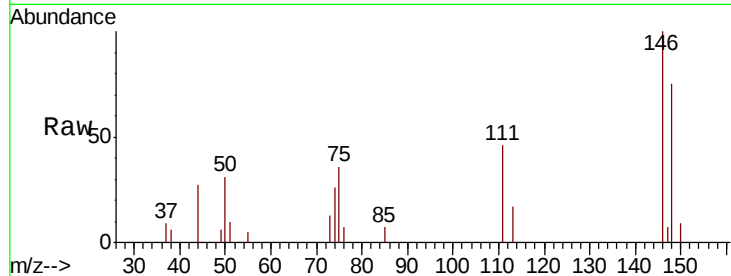
#62
 1,3-Dichlorobenzene
 Concen: 0.335 ug/L
 RT: 11.42 min Scan# 3186
 Delta R.T. 0.00 min
 Lab File: VU027875.D
 Acq: 30 Oct 2018 15:33

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.2	27.4	51.0
148	74.9	42.6	79.0

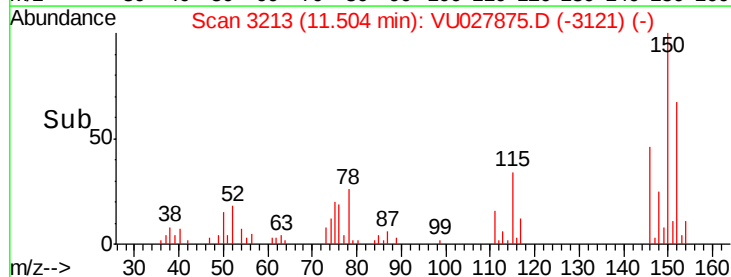
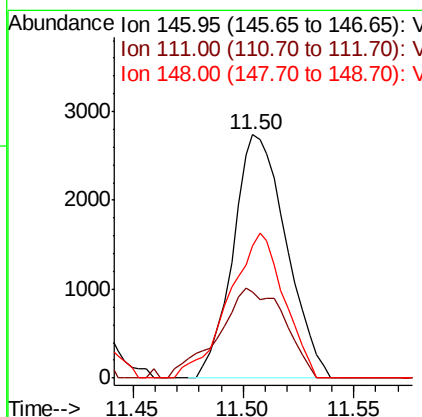
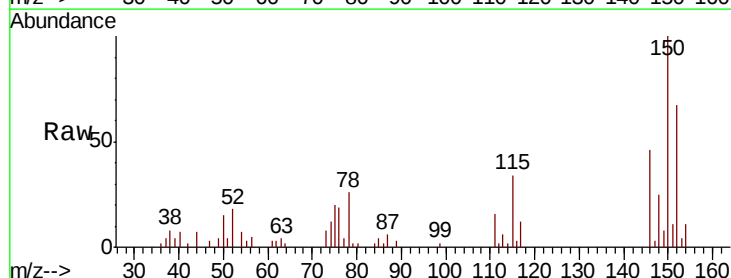
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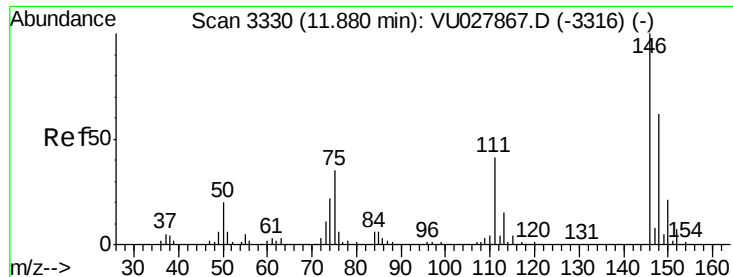
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#63
 1,4-Dichlorobenzene
 Concen: 0.371 ug/L
 RT: 11.50 min Scan# 3213
 Delta R.T. -0.00 min
 Lab File: VU027875.D
 Acq: 30 Oct 2018 15:33

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.4	27.4	51.0
148	54.1	43.1	80.1





#65

1,2-Dichlorobenzene

Concen: 0.341 ug/L

RT: 11.88 min Scan# 3330

Delta R.T. 0.00 min

Lab File: VU027875.D

Acq: 30 Oct 2018 15:33

Instrument :

MSVOA_U

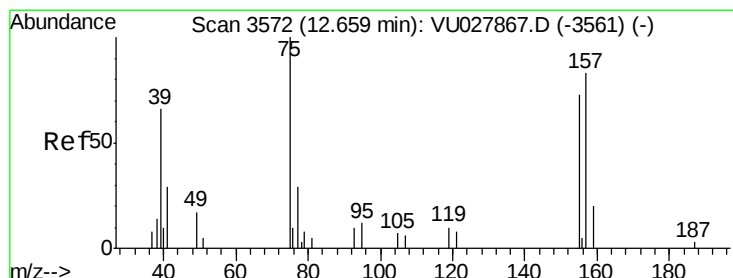
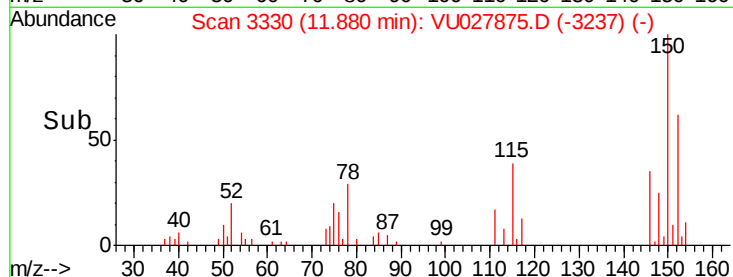
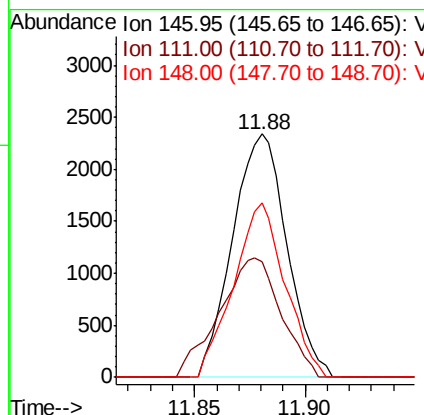
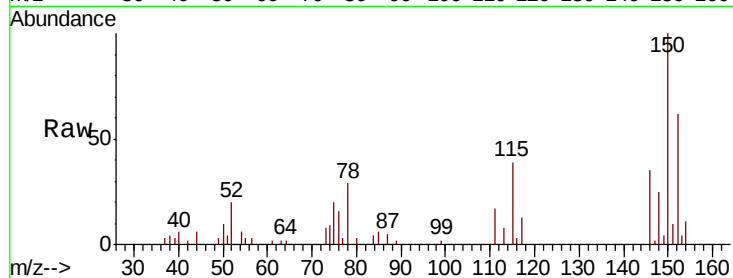
ClientSampleId :

MDL04

Tot Ion:	146	Resp:	3988
Ion	Ratio	Lower	Upper
146	100		
111	47.7	33.0	49.4
148	71.6	49.2	73.8

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#66

1,2-Dibromo-3-chloropropane

Concen: 0.311 ug/L

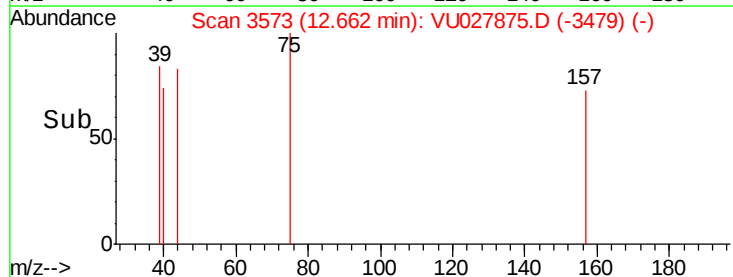
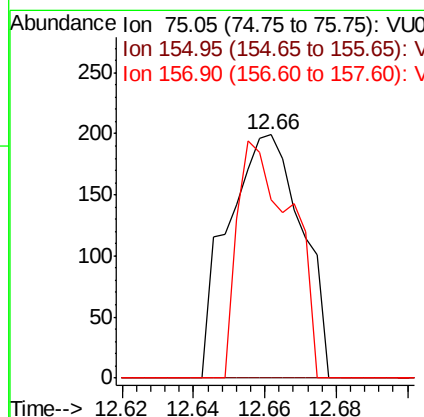
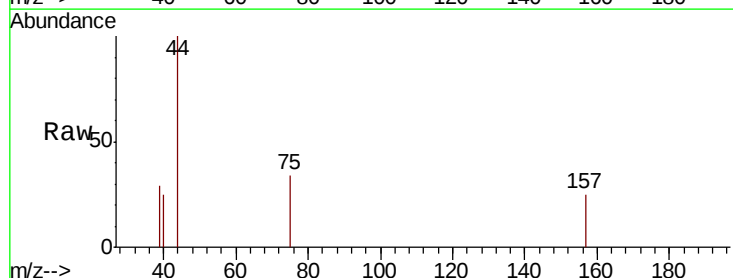
RT: 12.66 min Scan# 3573

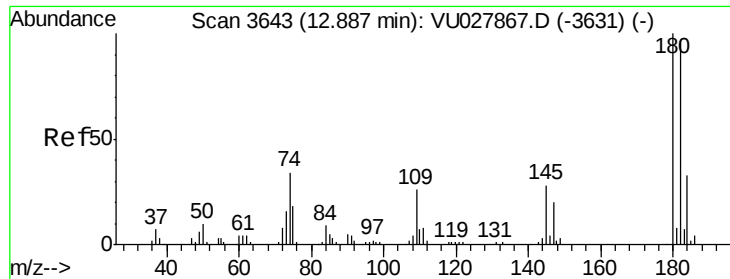
Delta R.T. 0.00 min

Lab File: VU027875.D

Acq: 30 Oct 2018 15:33

Tgt Ion:	75	Resp:	285
Ion	Ratio	Lower	Upper
75	100		
155	0.0	58.6	87.8#
157	73.4	66.7	100.1





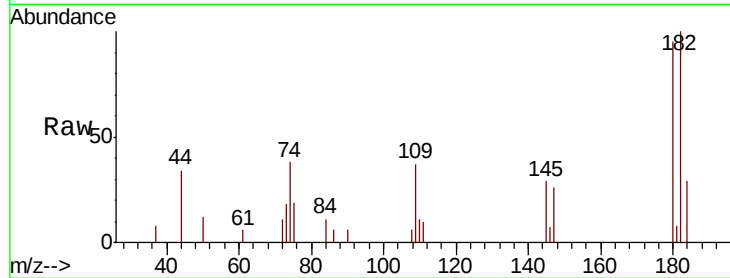
#67
 1,3,5-Trichlorobenzene
 Concen: 0.323 ug/L
 RT: 12.89 min Scan# 3644
 Delta R.T. 0.00 min
 Lab File: VU027875.D
 Acq: 30 Oct 2018 15:33

Instrument :
 MSVOA_U
 ClientSampled :
 MDL04

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.1	77.3	115.9
184	24.8	24.6	37.0
145	26.9	23.0	34.6

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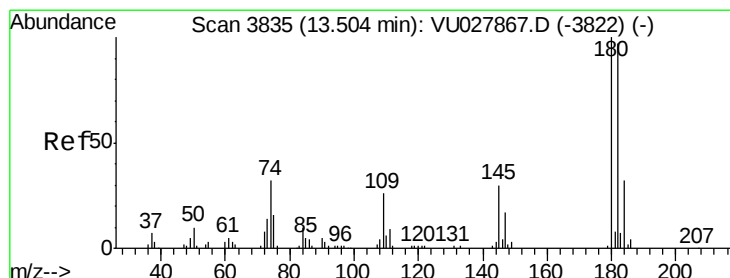
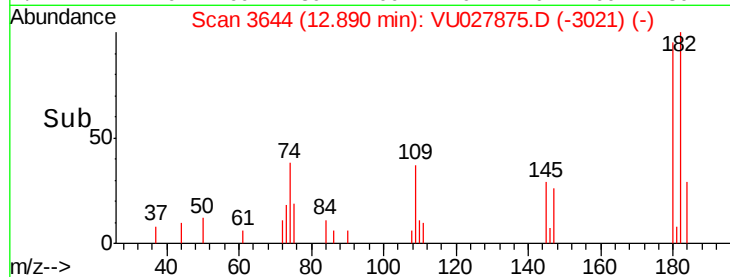
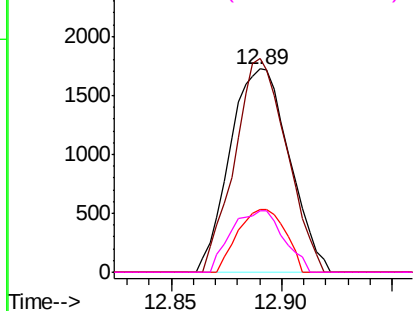
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

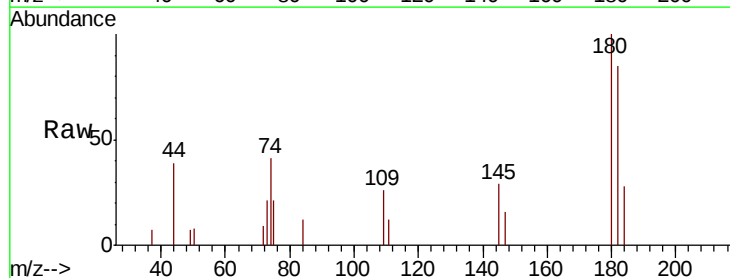
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 0.306 ug/L
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.00 min
 Lab File: VU027875.D
 Acq: 30 Oct 2018 15:33

Tgt Ion	Ratio	Lower	Upper
180	100		
182	86.1	77.8	116.6
145	29.7	22.9	34.3

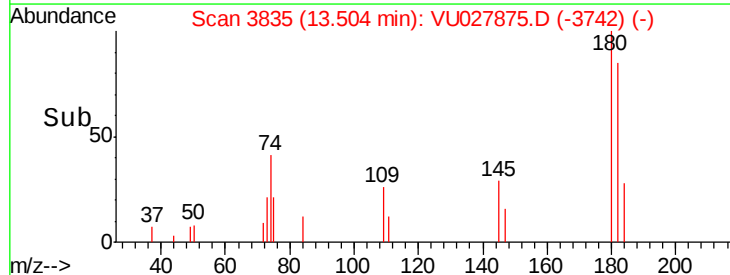
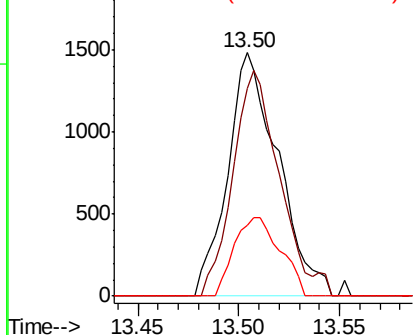


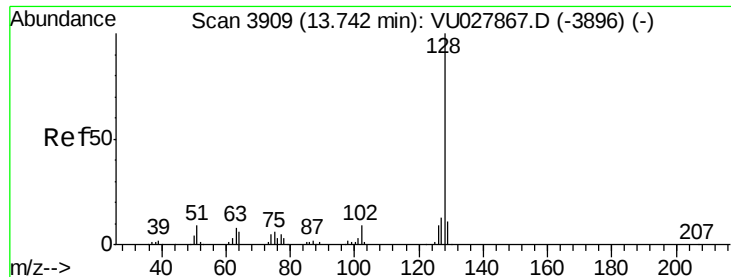
Abundance

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





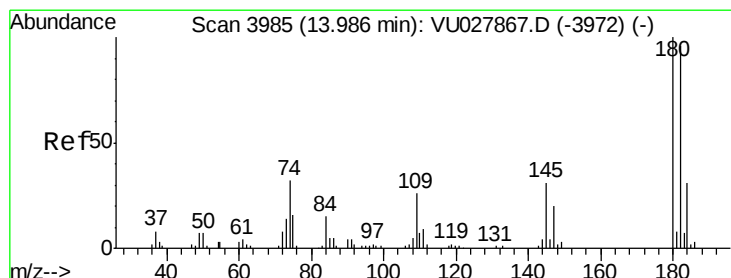
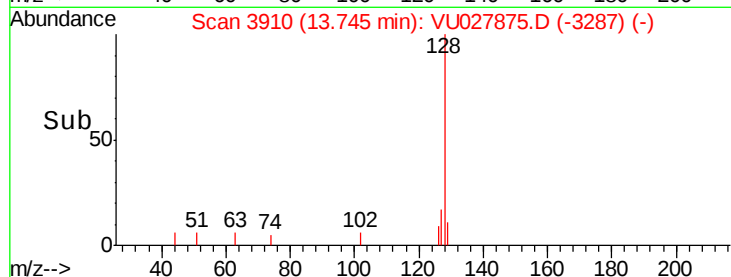
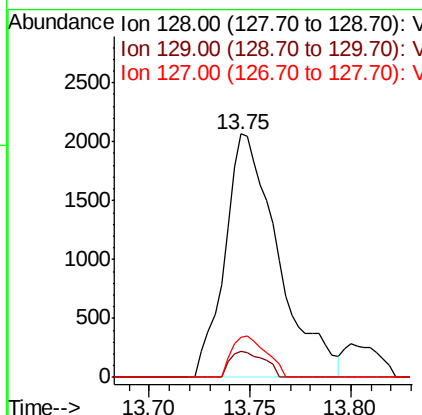
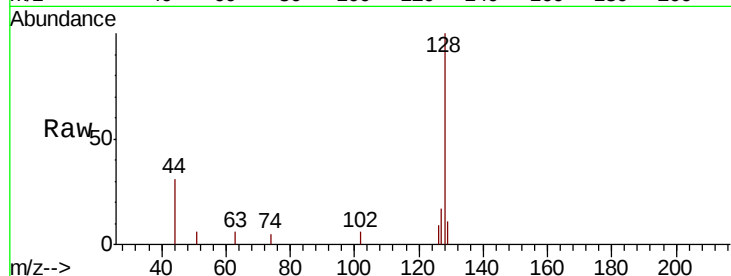
#69
Naphthalene
Concen: 0.290 ug/L
RT: 13.75 min Scan# 3910
Delta R.T. 0.00 min
Lab File: VU027875.D
Acq: 30 Oct 2018 15:33

Instrument :
MSVOA_U
ClientSampled :
MDL04

Tot Ion	Ratio	Lower	Upper
128	100		
129	6.8	8.6	12.8#
127	11.1	10.5	15.7

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#70
1,2,3-Trichlorobenzene
Concen: 0.312 ug/L
RT: 13.99 min Scan# 3986
Delta R.T. 0.00 min
Lab File: VU027875.D
Acq: 30 Oct 2018 15:33

Tgt Ion	Ratio	Lower	Upper
180	100		
182	91.6	79.4	119.0
145	23.7	25.4	38.0#

