

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU103018\
 Data File : VU027873.D
 Acq On : 30 Oct 2018 14:22
 Operator : MD/SY
 Sample : MDL02
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Manual Integrations
 APPROVED

MMDadoda
 11/1/2018 1:40:19 PM

Quant Time: Oct 31 09:30:52 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	83998	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	79926	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	38885	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	31804	4.85	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	97.00%
7) Chloroethane-d5	1.68	69	25536	5.04	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	100.80%
11) 1,1-Dichloroethene-d2	2.28	63	46416	3.72	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	74.40%
20) 2-Butanone-d5	4.19	46	95314	48.68	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.36%
24) Chloroform-d	4.65	84	54849	4.64	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.80%
26) 1,2-Dichloroethane-d4	5.31	65	32275	4.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.00%
32) Benzene-d6	5.34	84	107053	4.89	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.80%
36) 1,2-Dichloropropane-d6	6.33	67	38006	4.91	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.20%
41) Toluene-d8	7.57	98	99510	4.78	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.60%
43) trans-1,3-Dichloropropene-	7.86	79	14168	4.72	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.40%
46) 2-Hexanone-d5	8.31	63	79407	48.41	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.82%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	26206	4.78	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.60%
64) 1,2-Dichlorobenzene-d4	11.86	152	36151	4.86	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.21	85	2265	0.274	ug/L	89
3) Chloromethane	1.33	50	2442	0.298	ug/L	97
5) Vinyl chloride	1.41	62	2341	0.287	ug/L #	16
6) Bromomethane	1.63	94	852	0.318	ug/L	96
8) Chloroethane	1.70	64	1753m	0.366	ug/L	
9) Trichlorofluoromethane	1.89	101	2824	0.261	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.30	101	1618	0.293	ug/L	97
12) 1,1-Dichloroethene	2.29	96	1715	0.329	ug/L #	1
13) Acetone	2.33	43	3988	3.231	ug/L	92
14) Carbon disulfide	2.48	76	5736	0.308	ug/L #	94
15) Methyl Acetate	2.61	43	1112	0.337	ug/L #	63
16) Methylene chloride	2.71	84	2043	0.349	ug/L	94
17) Methyl tert-butyl Ether	3.01	73	4440	0.285	ug/L #	90
18) trans-1,2-Dichloroethene	2.98	96	1737	0.313	ug/L	97
19) 1,1-Dichloroethane	3.45	63	3525m	0.301	ug/L	
21) 2-Butanone	4.29	43	6308	2.940	ug/L	77
22) cis-1,2-Dichloroethene	4.23	96	1793	0.280	ug/L	94

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

23) Bromochloromethane	4.55	128	607	0.229	ug/L	87
25) Chloroform	4.68	83	4188	0.353	ug/L	90
27) 1,2-Dichloroethane	5.41	62	2737	0.330	ug/L #	78
29) 1,1,1-Trichloroethane	4.92	97	3080	0.299	ug/L	96
30) Cyclohexane	4.99	56	3296	0.272	ug/L #	93
31) Carbon tetrachloride	5.13	117	2289	0.259	ug/L	86
33) Benzene	5.39	78	7595m	0.300	ug/L	
34) Trichloroethene	6.19	95	2010	0.305	ug/L	94
35) Methylcyclohexane	6.42	83	3338	0.298	ug/L	86
37) 1,2-Dichloropropane	6.44	63	2167m	0.301	ug/L	
38) Bromodichloromethane	6.76	83	2176	0.258	ug/L #	85
39) cis-1,3-Dichloropropene	7.28	75	3078	0.298	ug/L	93
40) 4-Methyl-2-pentanone	7.47	43	14602	2.866	ug/L #	90
42) Toluene	7.64	91	7351	0.278	ug/L	92
44) trans-1,3-Dichloropropene	7.88	75	2299	0.259	ug/L	93
45) 1,1,2-Trichloroethane	8.07	97	1140	0.257	ug/L	92
47) Tetrachloroethene	8.23	164	1386	0.274	ug/L	90
48) 2-Hexanone	8.37	43	11149	3.036	ug/L	98
49) Dibromochloromethane	8.48	129	1539	0.287	ug/L	88
50) 1,2-Dibromoethane	8.59	107	1065	0.251	ug/L #	97
51) Chlorobenzene	9.13	112	4984	0.303	ug/L	96
52) Ethylbenzene	9.25	91	8614	0.285	ug/L	97
53) m,p-xylene	9.38	106	3082	0.282	ug/L	91
54) o-xylene	9.78	106	2710	0.252	ug/L	84
55) Styrene	9.79	104	4912	0.273	ug/L	86
56) Isopropylbenzene	10.17	105	8393	0.286	ug/L	96
58) 1,1,2,2-Tetrachloroethane	10.46	83	1637	0.283	ug/L #	95
59) 1,2,3-Trichloropropane	10.49	75	1120	0.256	ug/L	98
61) Bromoform	9.96	173	696	0.243	ug/L #	88
62) 1,3-Dichlorobenzene	11.42	146	3520	0.281	ug/L	91
63) 1,4-Dichlorobenzene	11.51	146	3847	0.308	ug/L	96
65) 1,2-Dichlorobenzene	11.88	146	3873	0.328	ug/L	94
66) 1,2-Dibromo-3-chloropropan	12.66	75	214	0.231	ug/L #	43
67) 1,3,5-Trichlorobenzene	12.89	180	2696	0.268	ug/L	90
68) 1,2,4-trichlorobenzene	13.51	180	2479	0.290	ug/L	93
69) Naphthalene	13.75	128	2977	0.224	ug/L	98
70) 1,2,3-Trichlorobenzene	14.00	180	2496	0.320	ug/L #	86

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

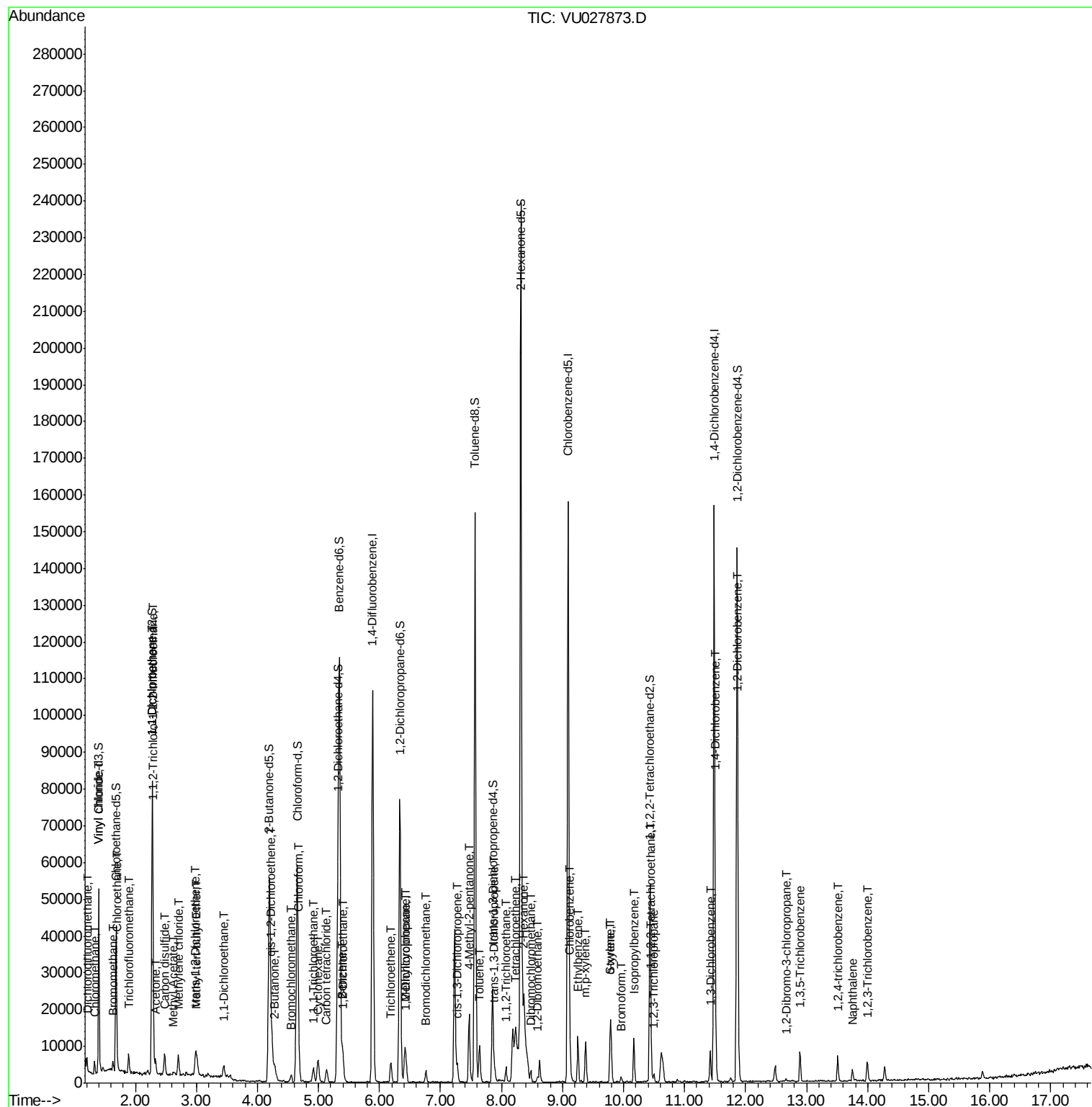
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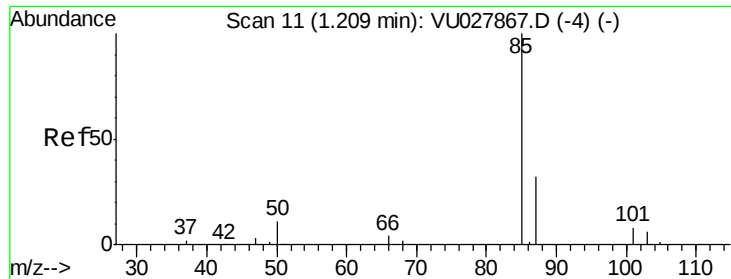
Instrument :
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#2

Dichlorodifluoromethane

Concen: 0.274 ug/L

RT: 1.21 min Scan# 11

Delta R.T. 0.00 min

Lab File: VU027873.D

Acq: 30 Oct 2018 14:22

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tot Ion: 85 Resp: 2265

Ion Ratio Lower Upper

85 100

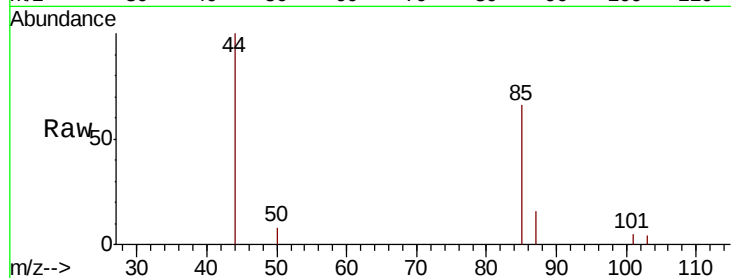
87 25.3 25.2 37.8

Manual Integrations

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Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

1.21

2500

2000

1500

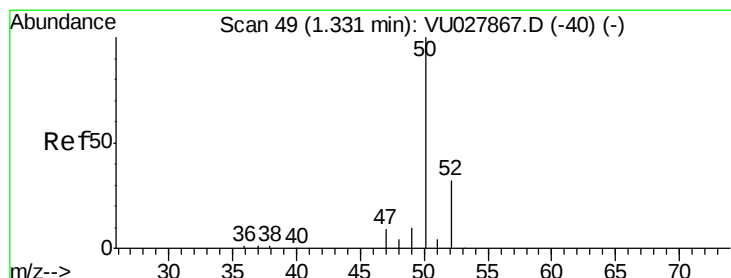
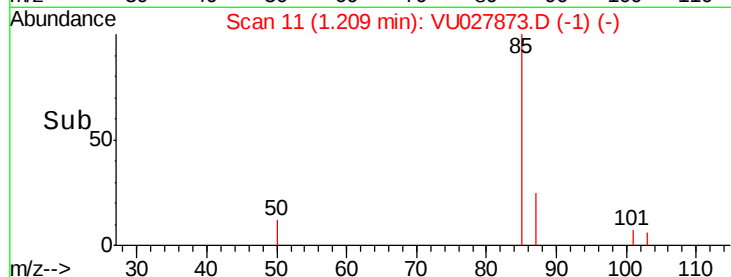
1000

500

0

1.18 1.20 1.22 1.24

Time-->



#3

Chloromethane

Concen: 0.298 ug/L

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU027873.D

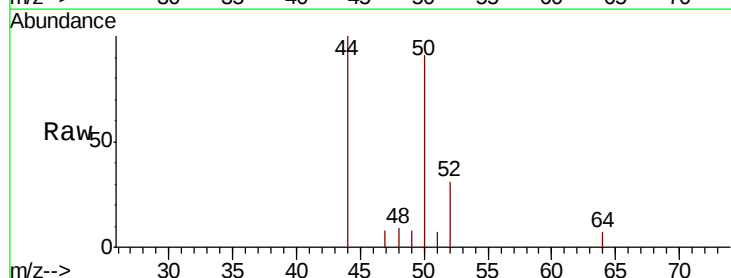
Acq: 30 Oct 2018 14:22

Tgt Ion: 50 Resp: 2442

Ion Ratio Lower Upper

50 100

52 33.6 22.3 41.5



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0

1.33

2500

2000

1500

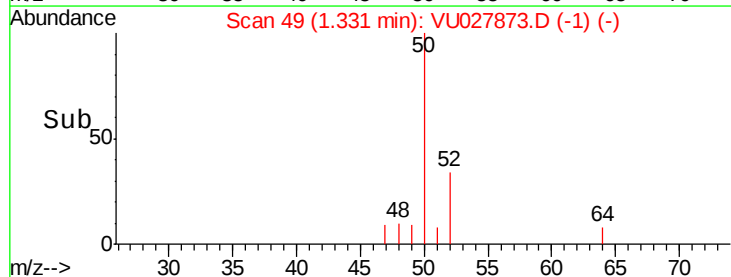
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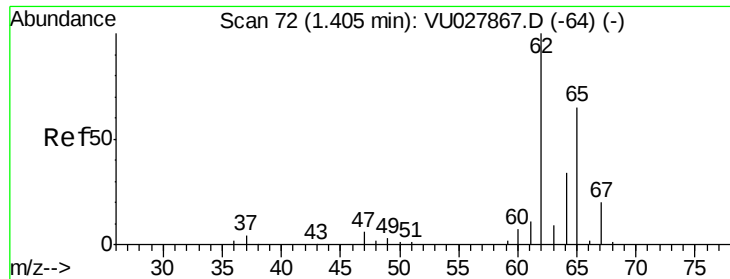
500

0

1.30 1.32 1.34 1.36

Time-->





#5

Vinyl chloride

Concen: 0.287 ug/L

RT: 1.41 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU027873.D

Acq: 30 Oct 2018 14:22

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion: 62 Resp: 2341

Ion Ratio Lower Upper

62 100

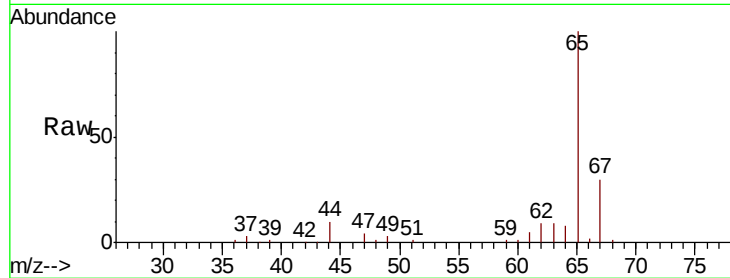
64 82.8 24.0 44.6#

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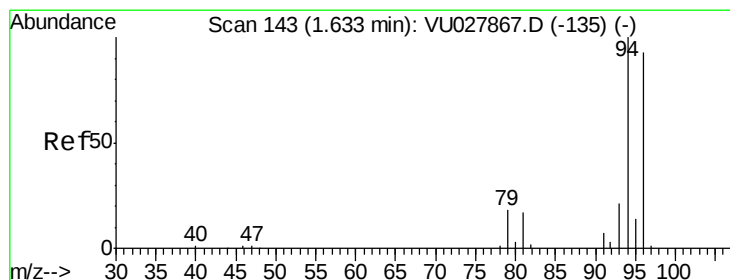
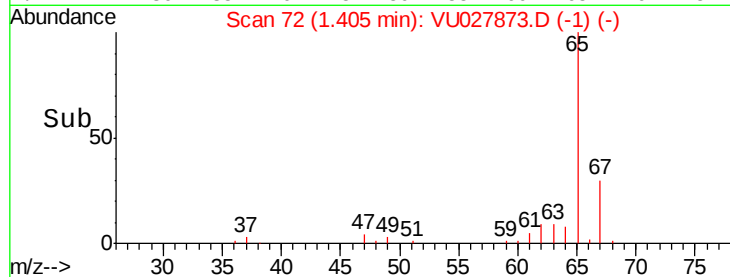
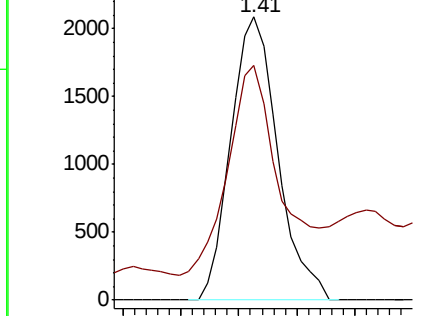
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Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 0.318 ug/L

RT: 1.63 min Scan# 143

Delta R.T. 0.00 min

Lab File: VU027873.D

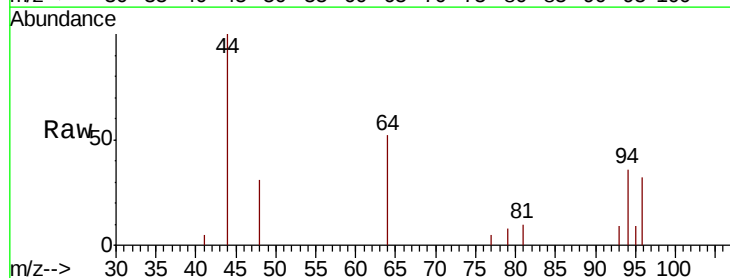
Acq: 30 Oct 2018 14:22

Tgt Ion: 94 Resp: 852

Ion Ratio Lower Upper

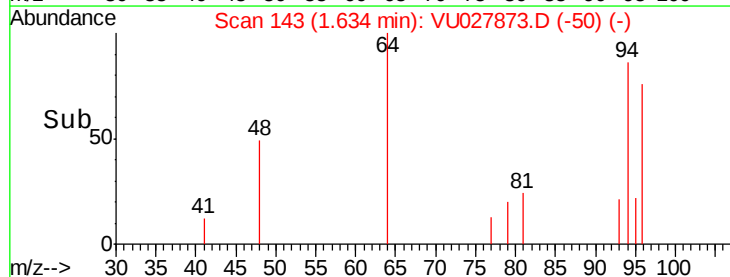
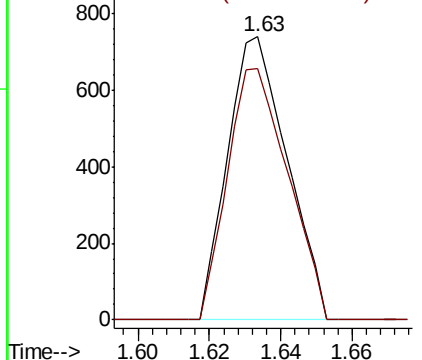
94 100

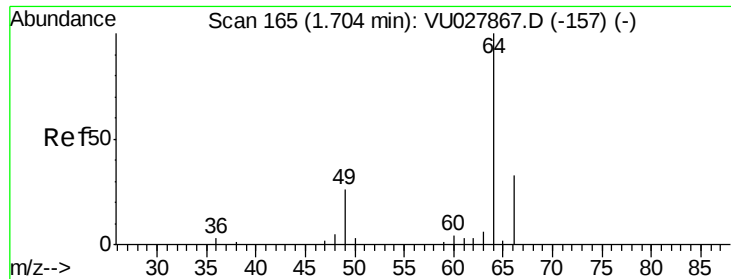
96 88.8 65.0 120.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





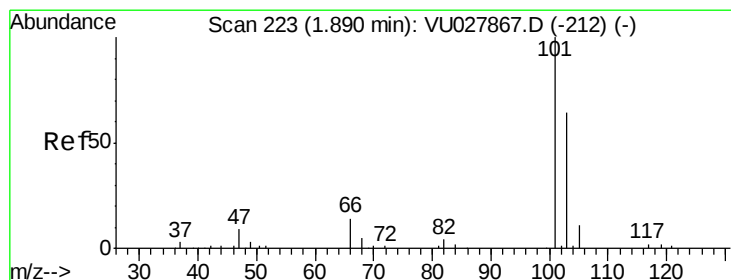
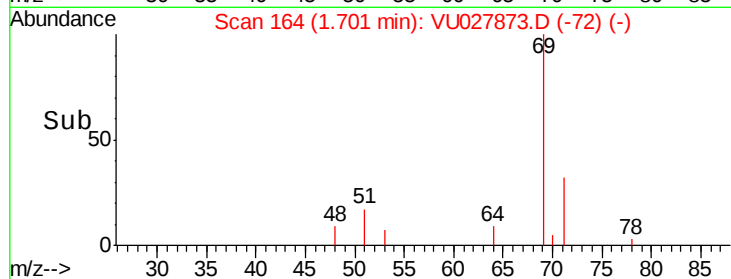
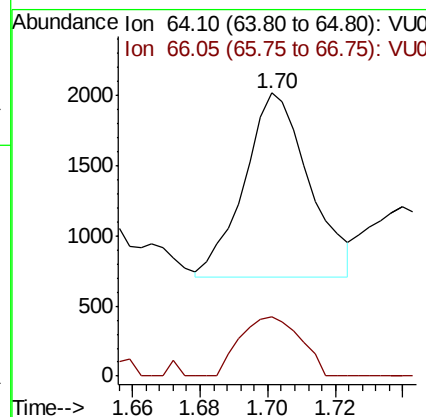
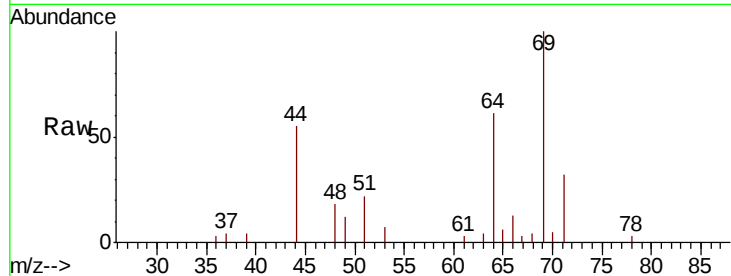
#8
Chloroethane
Concen: 0.366 ug/L m
RT: 1.70 min Scan# 164
Delta R.T. -0.00 min
Lab File: VU027873.D
Acq: 30 Oct 2018 14:22

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tot Ion: 64 Resp: 1753
Ion Ratio Lower Upper
64 100
66 20.8 21.8 40.6#

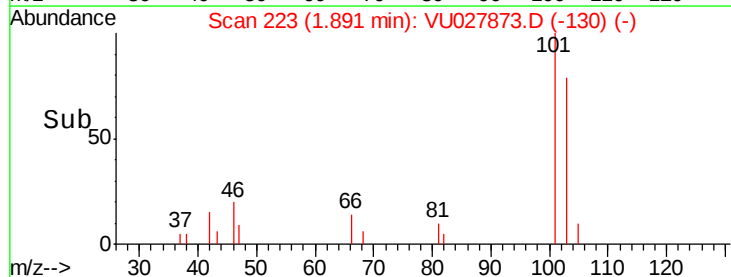
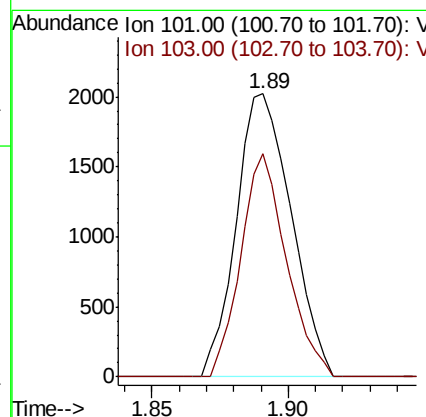
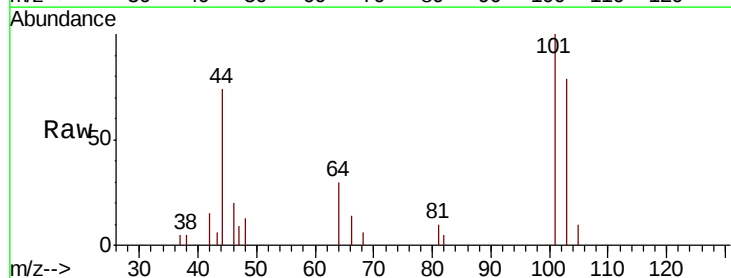
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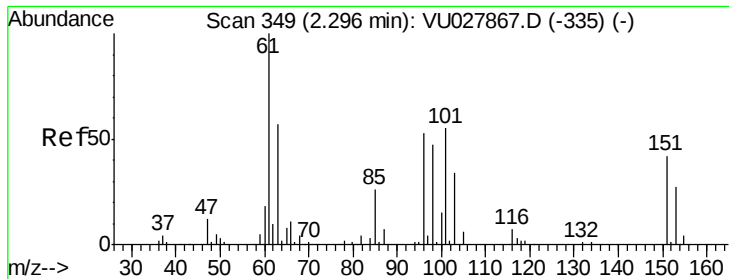
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#9
Trichlorofluoromethane
Concen: 0.261 ug/L
RT: 1.89 min Scan# 223
Delta R.T. 0.00 min
Lab File: VU027873.D
Acq: 30 Oct 2018 14:22

Tgt Ion:101 Resp: 2824
Ion Ratio Lower Upper
101 100
103 65.3 51.4 77.0





#10

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

Concen: 0.293 ug/L

RT: 2.30 min Scan# 349

Delta R.T. 0.00 min

Lab File: VU027873.D

Acq: 30 Oct 2018 14:22

Instrument :

MSVOA_U

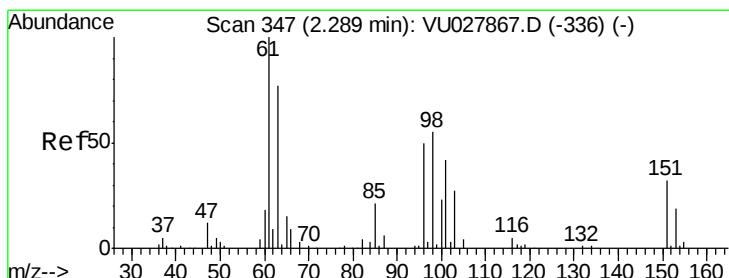
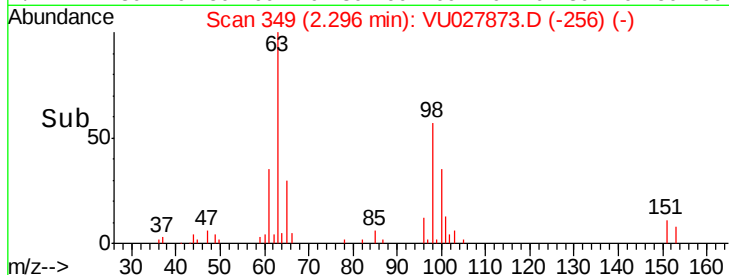
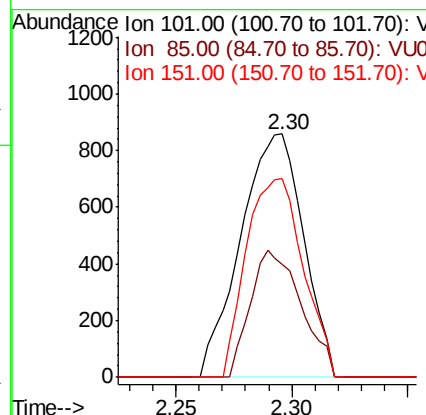
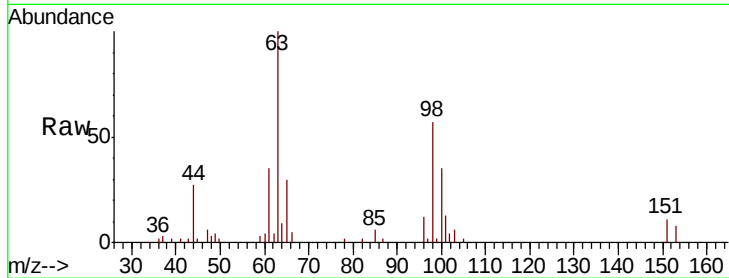
ClientSampleId :

MDL02

Tot Ion:	101	Resp:	1618
Ion Ratio	Lower	Upper	
101	100		
85	42.3	37.1	55.7
151	73.8	59.9	89.9

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#12

1,1-Dichloroethene

Concen: 0.329 ug/L

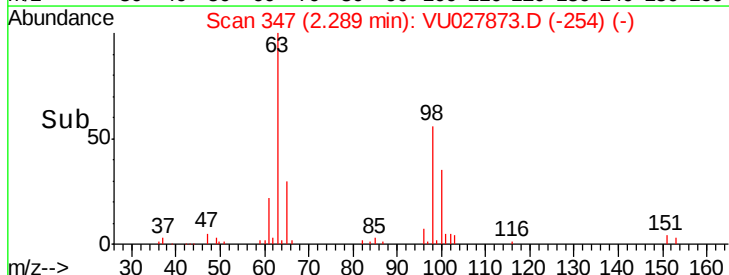
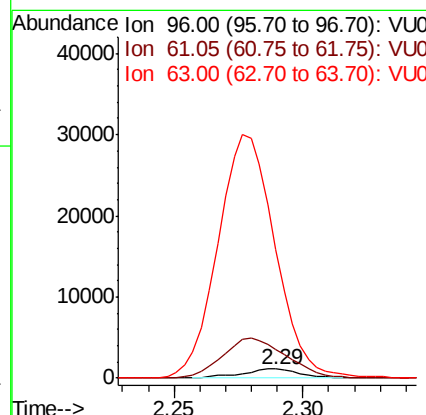
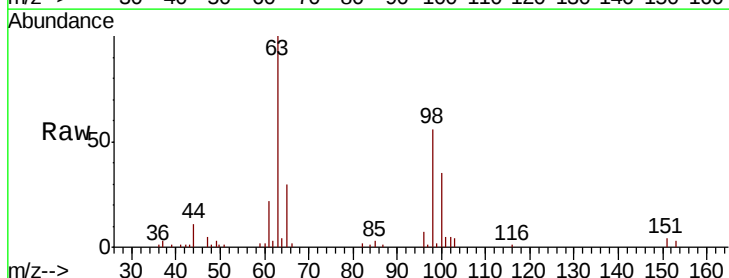
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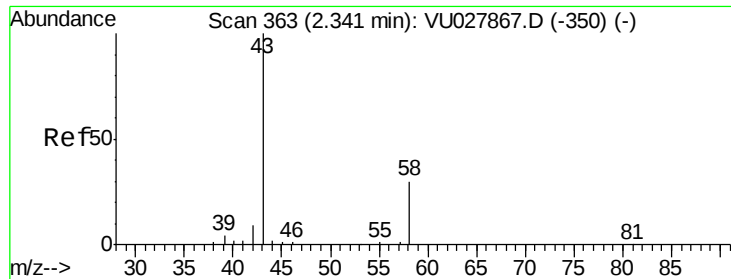
Delta R.T. 0.00 min

Lab File: VU027873.D

Acq: 30 Oct 2018 14:22

Tgt Ion:	96	Resp:	1715
Ion Ratio	Lower	Upper	
96	100		
61	302.6	141.1	262.1#
63	1382.6	113.0	209.9#





#13

Acetone

Concen: 3.231 ug/L

RT: 2.33 min Scan# 359

Delta R.T. -0.01 min

Lab File: VU027873.D

Acq: 30 Oct 2018 14:22

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tot Ion: 43 Resp: 3988

Ion Ratio Lower Upper

43 100

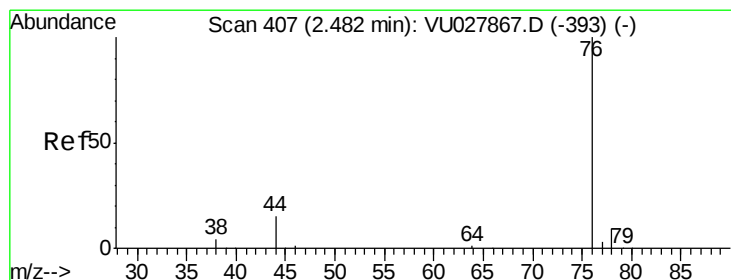
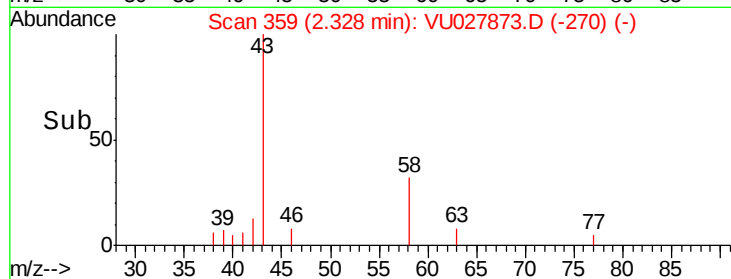
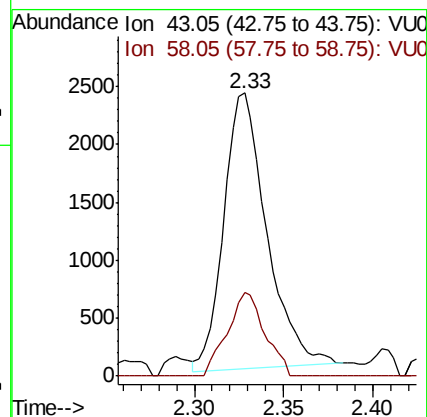
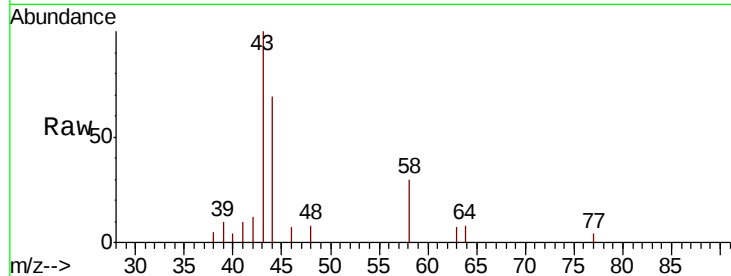
58 26.4 0.0 61.4

Manual Integrations

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#14

Carbon disulfide

Concen: 0.308 ug/L

RT: 2.48 min Scan# 407

Delta R.T. 0.00 min

Lab File: VU027873.D

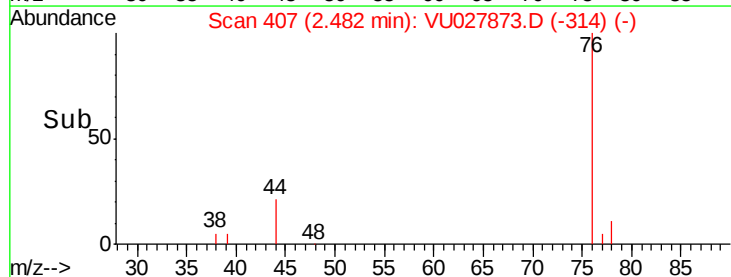
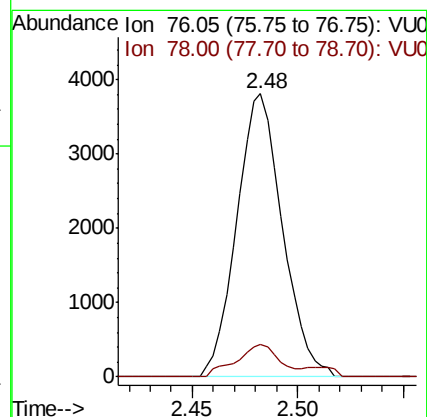
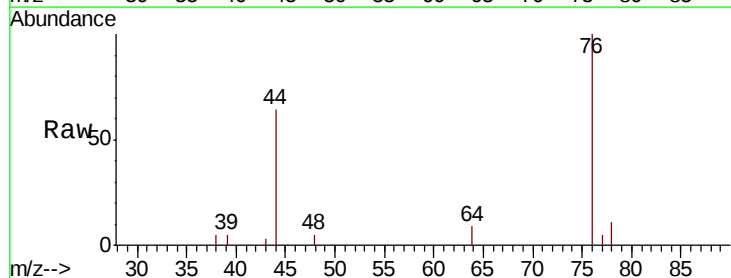
Acq: 30 Oct 2018 14:22

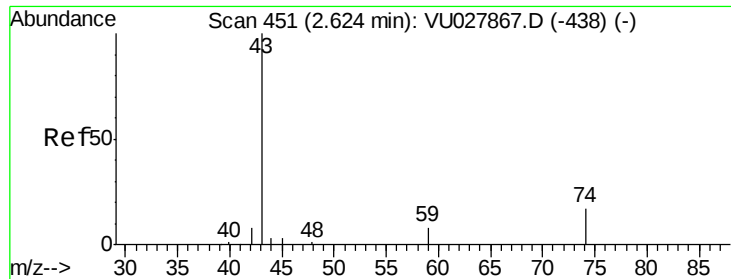
Tgt Ion: 76 Resp: 5736

Ion Ratio Lower Upper

76 100

78 11.4 7.5 11.3#





#15

Methvl Acetate

Concen: 0.337 ug/L

RT: 2.61 min Scan# 448

Delta R.T. -0.01 min

Lab File: VU027873.D

Acq: 30 Oct 2018 14:22

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion: 43 Resp: 1112

Ion Ratio Lower Upper

43 100

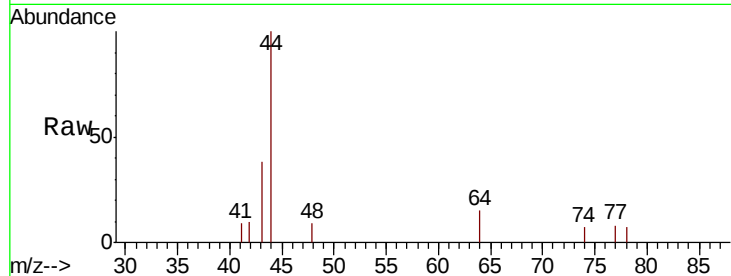
74 1.9 14.9 22.3#

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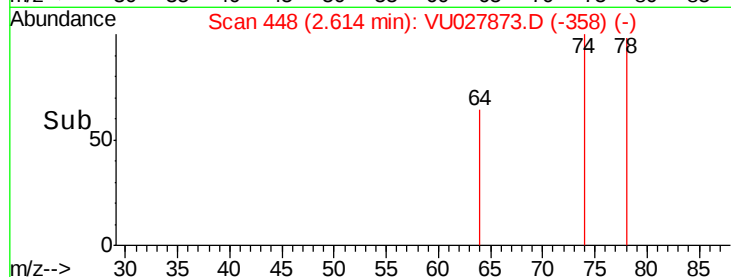


Abundance Ion 43.05 (42.75 to 43.75): VU0

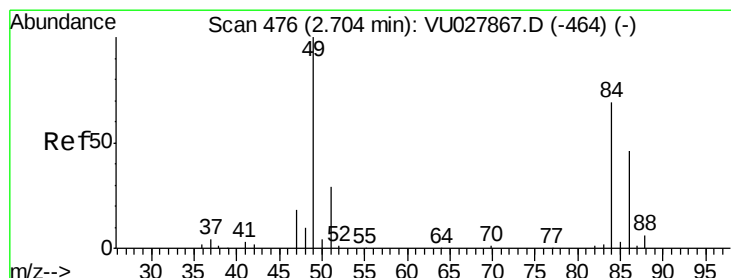
Ion 74.05 (73.75 to 74.75): VU0

2.61

2.65



Time-->



#16

Methylene chloride

Concen: 0.349 ug/L

RT: 2.71 min Scan# 477

Delta R.T. 0.00 min

Lab File: VU027873.D

Acq: 30 Oct 2018 14:22

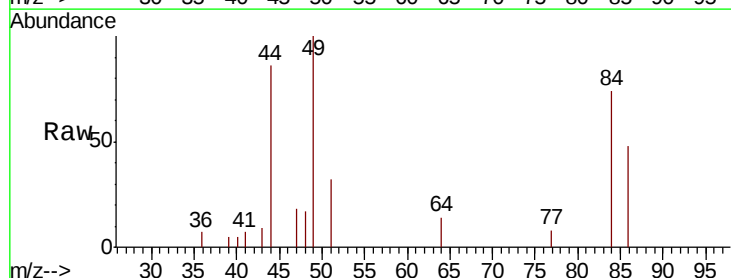
Tgt Ion: 84 Resp: 2043

Ion Ratio Lower Upper

84 100

86 65.3 46.7 86.7

49 134.9 101.3 188.1



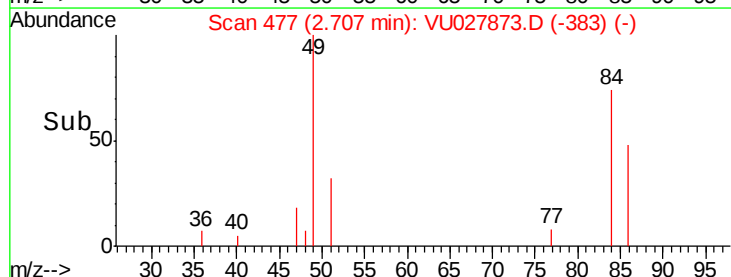
Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

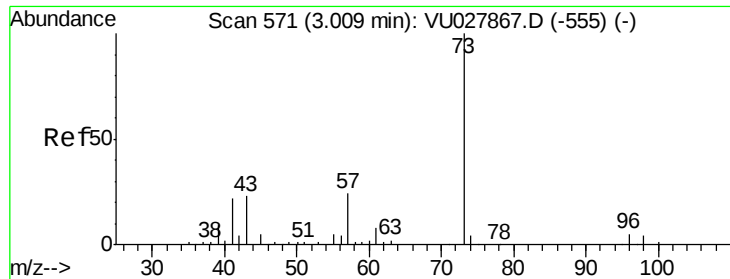
Ion 49.10 (48.80 to 49.80): VU0

2.71

2.75



Time-->



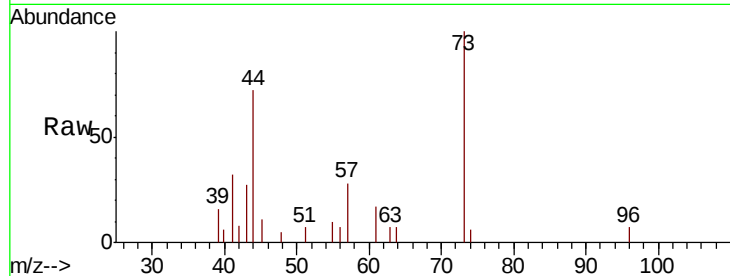
#17
Methvl tert-butvl Ether
Concen: 0.285 ug/L
RT: 3.01 min Scan# 571
Delta R.T. 0.00 min
Lab File: VU027873.D
Acq: 30 Oct 2018 14:22

Instrument :
MSVOA_U
ClientSampled :
MDL02

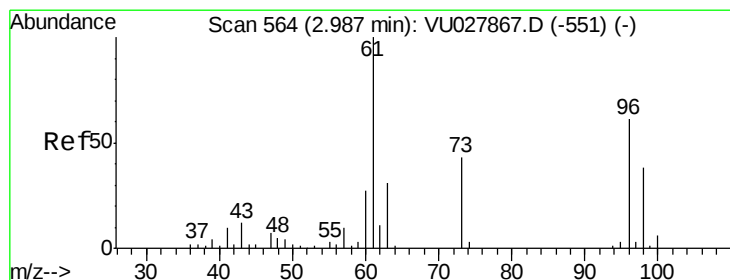
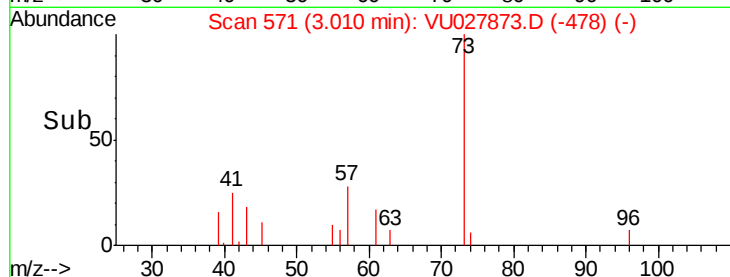
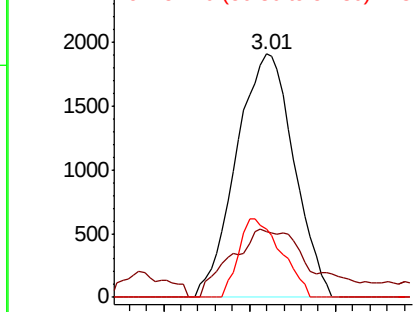
Tot Ion: 73 Resp: 4440
Ion Ratio Lower Upper
73 100
43 32.9 18.7 28.1#
57 23.9 18.7 28.1

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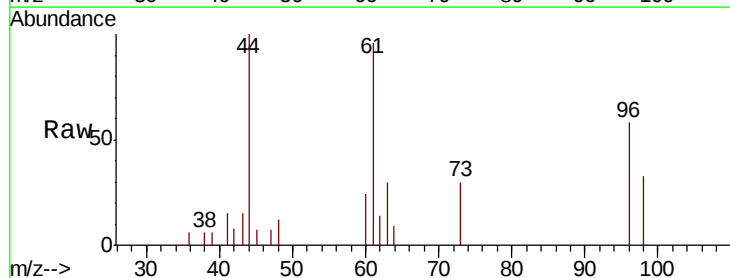


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

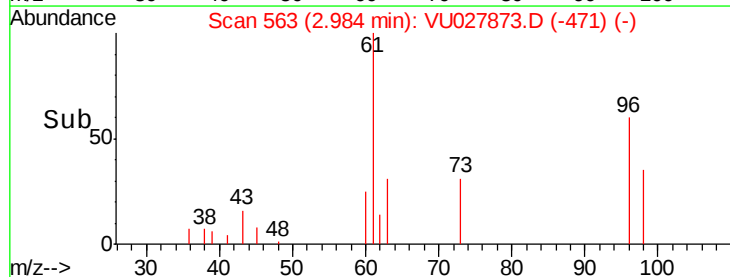
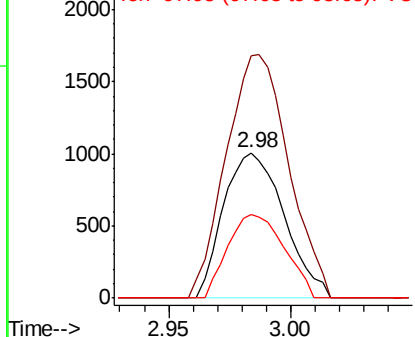


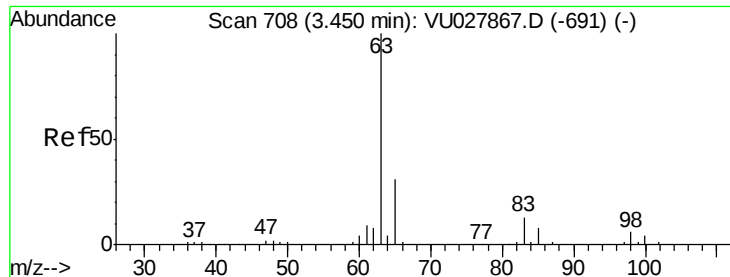
#18
trans-1,2-Dichloroethene
Concen: 0.313 ug/L
RT: 2.98 min Scan# 563
Delta R.T. -0.00 min
Lab File: VU027873.D
Acq: 30 Oct 2018 14:22

Tgt Ion: 96 Resp: 1737
Ion Ratio Lower Upper
96 100
61 166.3 115.2 214.0
98 57.5 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





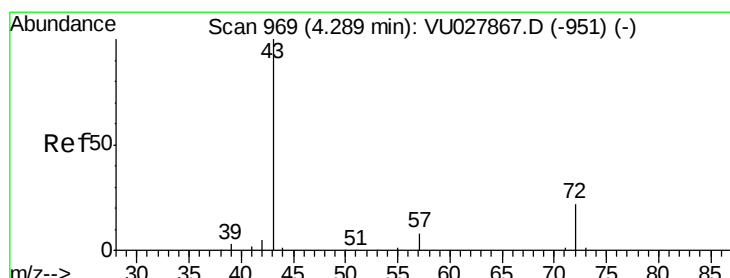
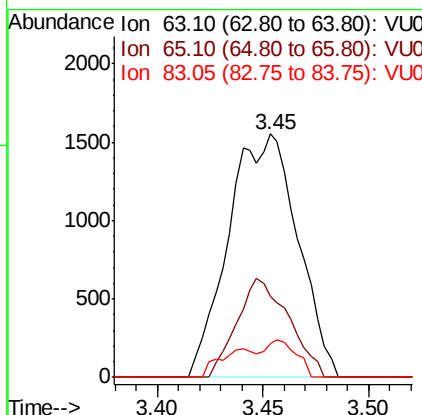
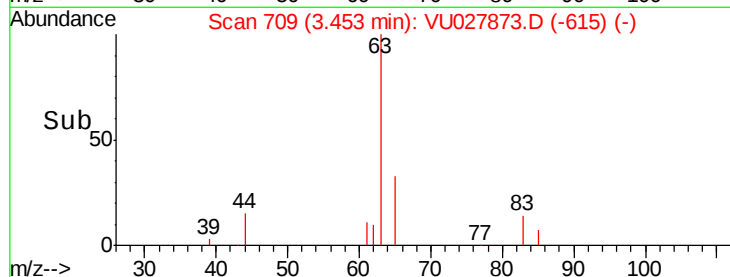
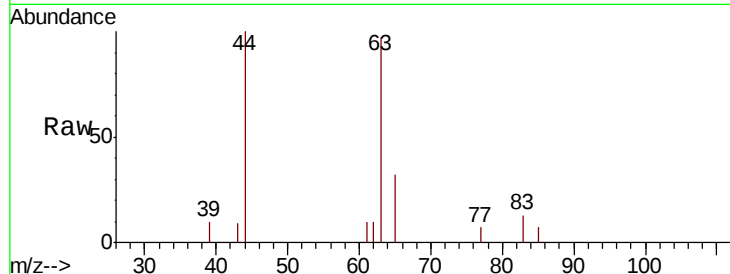
#19
 1,1-Dichloroethane
 Concen: 0.301 ug/L m
 RT: 3.45 min Scan# 709
 Delta R.T. 0.00 min
 Lab File: VU027873.D
 Acq: 30 Oct 2018 14:22

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion:	63	Resp:	3525
Ion	Ratio	Lower	Upper
63	100		
65	33.3	21.8	40.4
83	13.8	9.4	17.4

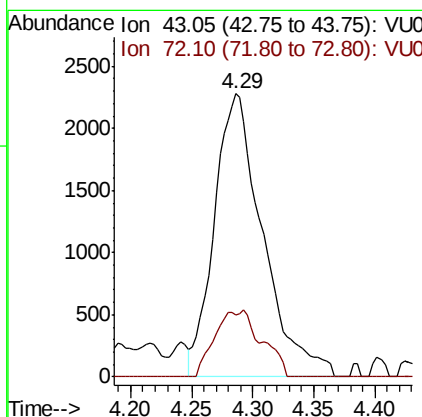
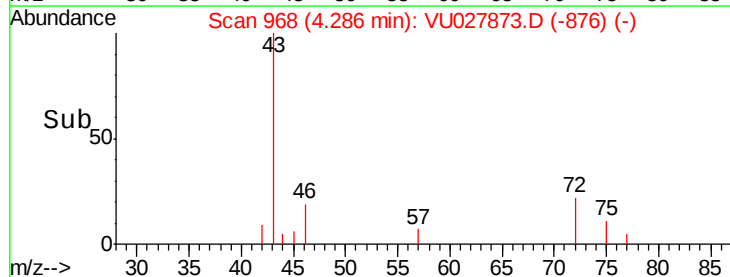
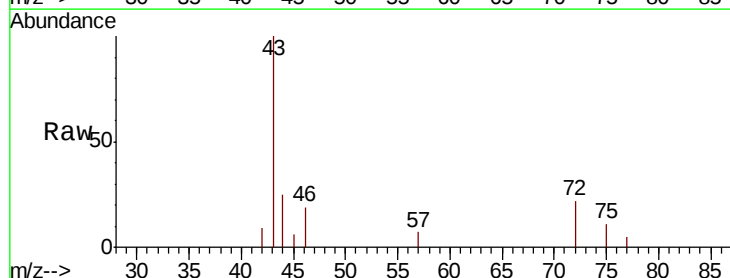
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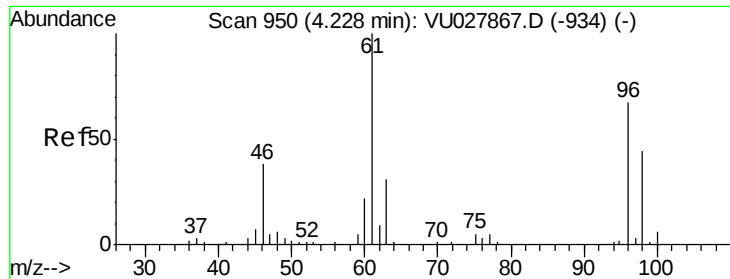
MMDadoda
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#21
 2-Butanone
 Concen: 2.940 ug/L
 RT: 4.29 min Scan# 968
 Delta R.T. -0.00 min
 Lab File: VU027873.D
 Acq: 30 Oct 2018 14:22

Tgt Ion:	43	Resp:	6308
Ion	Ratio	Lower	Upper
43	100		
72	11.0	10.9	32.9





#22

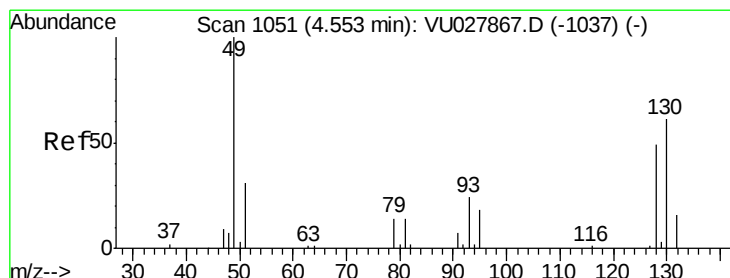
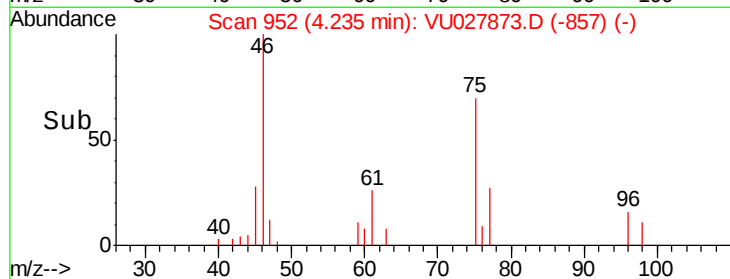
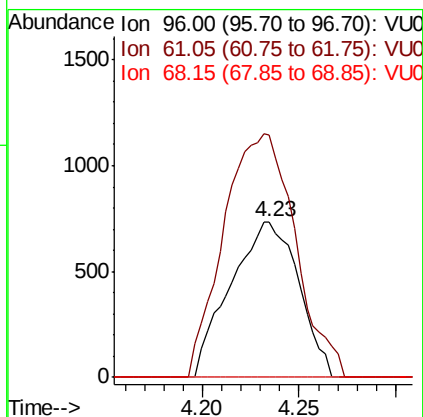
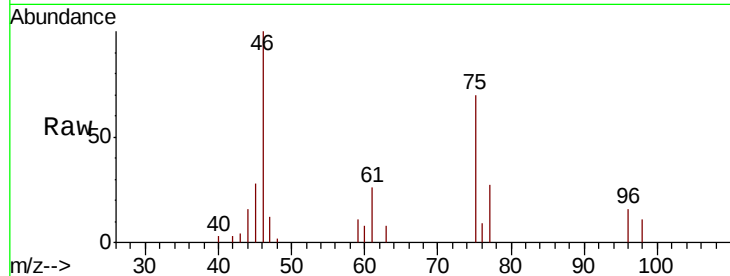
cis-1,2-Dichloroethene
 Concen: 0.280 ug/L
 RT: 4.23 min Scan# 952
 Delta R.T. 0.01 min
 Lab File: VU027873.D
 Acq: 30 Oct 2018 14:22

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
96	100		
61	155.6	104.0	193.2
68	0.0	0.0	0.0

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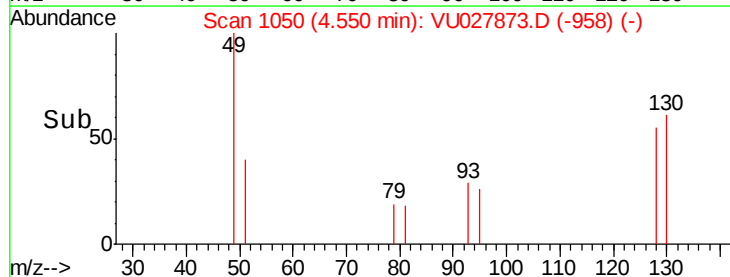
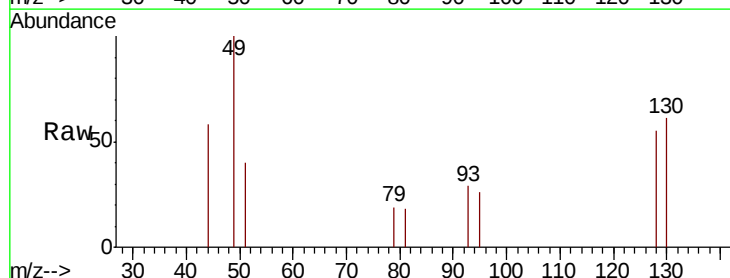
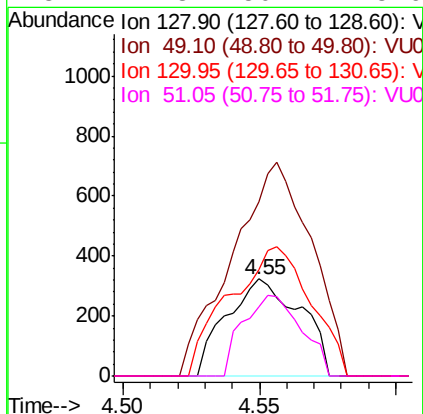
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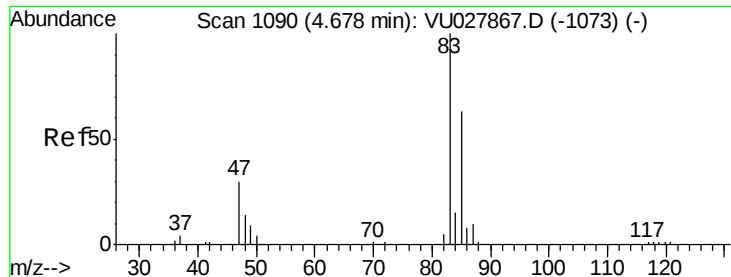


#23

Bromochloromethane
 Concen: 0.229 ug/L
 RT: 4.55 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VU027873.D
 Acq: 30 Oct 2018 14:22

Tgt Ion	Ratio	Lower	Upper
128	100		
49	180.2	142.0	263.8
130	110.2	86.1	159.9
51	71.8	50.4	75.6





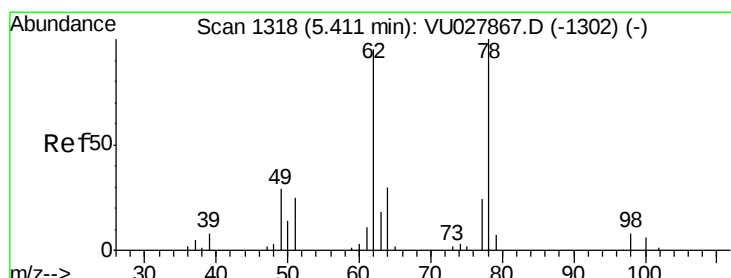
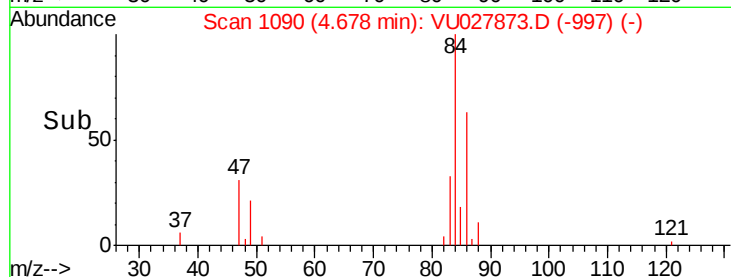
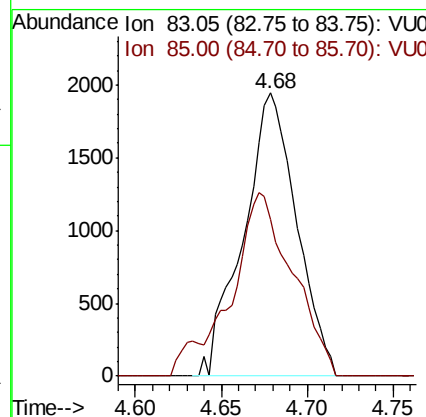
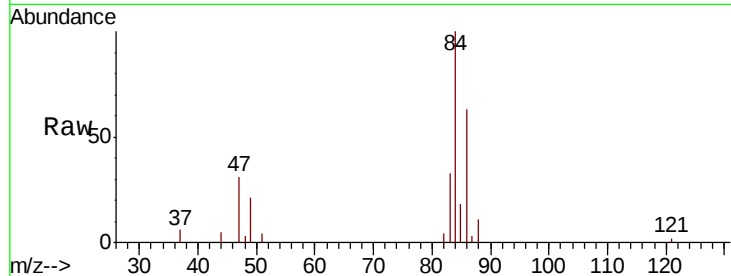
#25
Chloroform
Concen: 0.353 ug/L
RT: 4.68 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VU027873.D
Acq: 30 Oct 2018 14:22

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tot Ion: 83 Resp: 4188
Ion Ratio Lower Upper
83 100
85 55.5 44.0 81.8

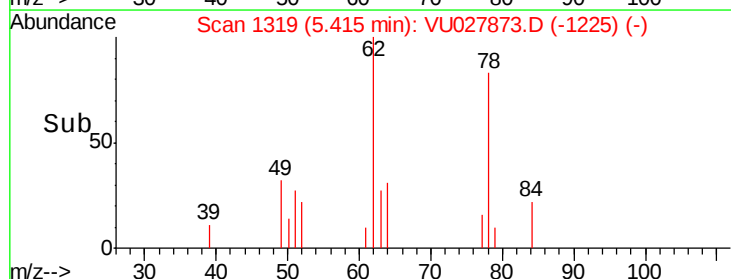
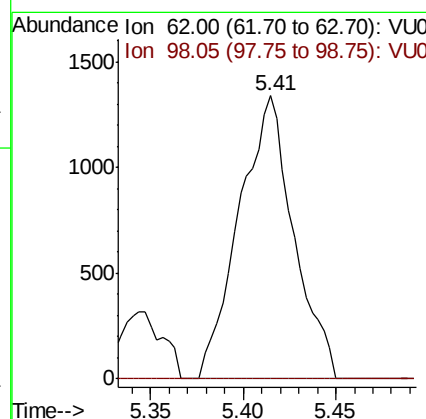
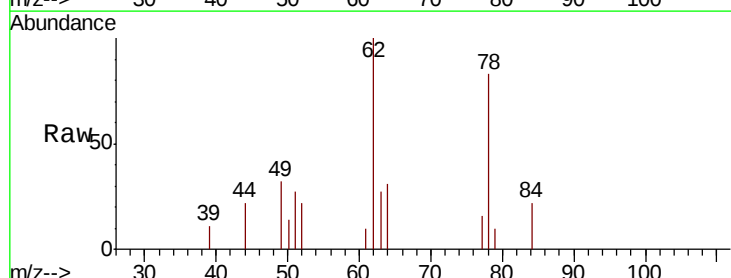
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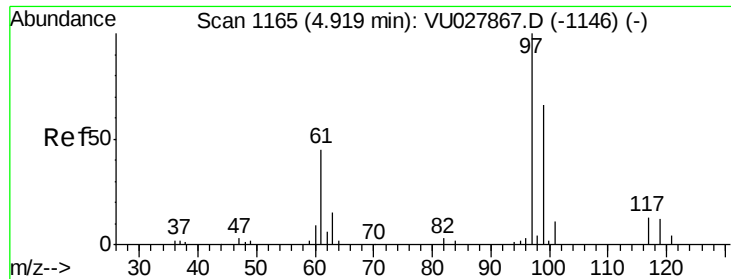
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#27
1,2-Dichloroethane
Concen: 0.330 ug/L
RT: 5.41 min Scan# 1319
Delta R.T. 0.00 min
Lab File: VU027873.D
Acq: 30 Oct 2018 14:22

Tgt Ion: 62 Resp: 2737
Ion Ratio Lower Upper
62 100
98 0.0 6.3 9.5#





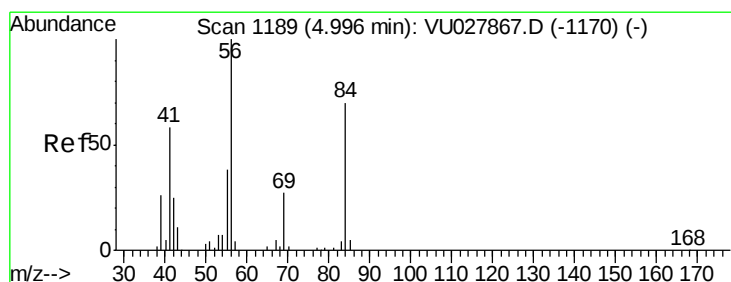
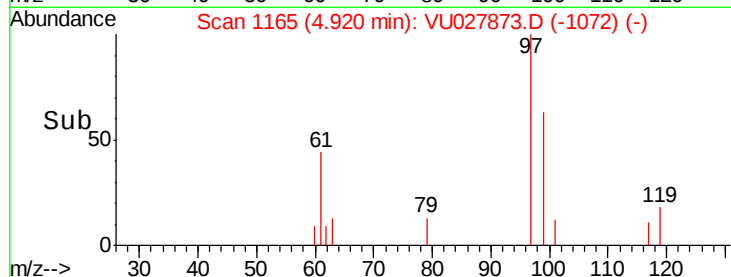
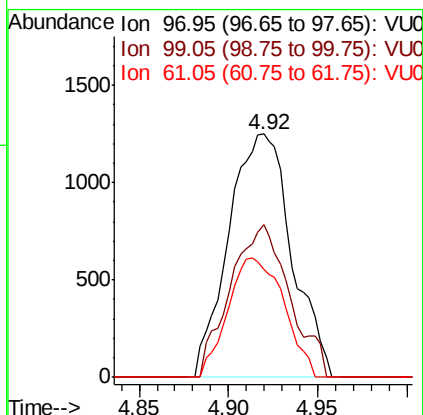
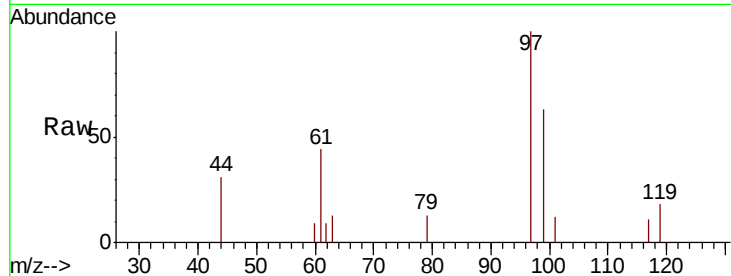
#29
 1,1,1-Trichloroethane
 Concen: 0.299 ug/L
 RT: 4.92 min Scan# 1165
 Delta R.T. 0.00 min
 Lab File: VU027873.D
 Acq: 30 Oct 2018 14:22

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
97	100		
99	58.8	50.6	76.0
61	43.4	35.8	53.6

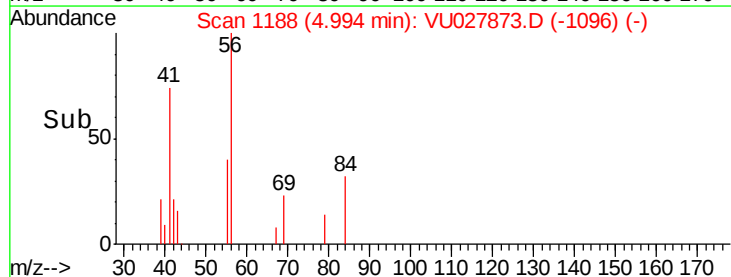
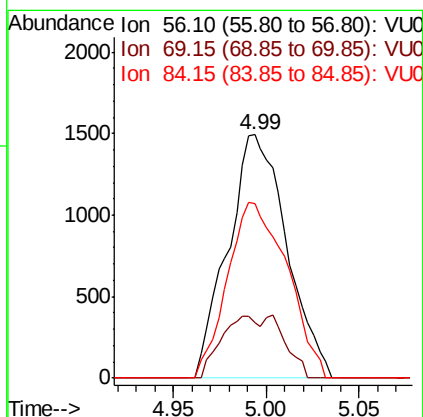
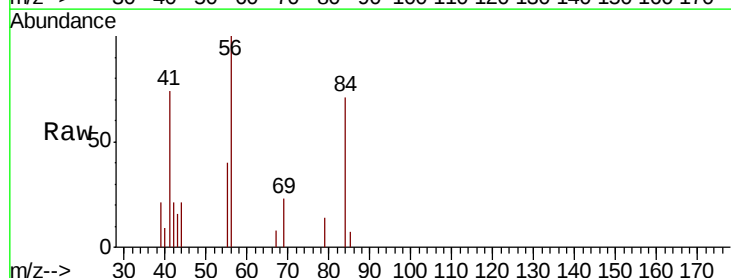
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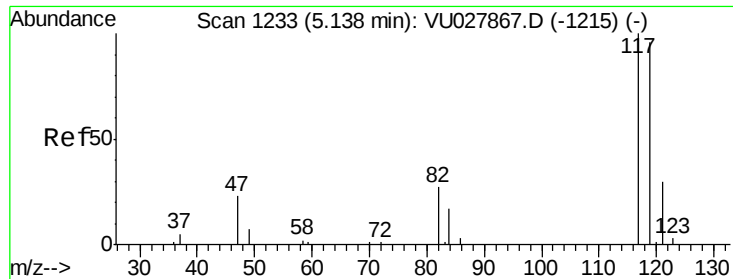
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#30
 Cyclohexane
 Concen: 0.272 ug/L
 RT: 4.99 min Scan# 1188
 Delta R.T. -0.00 min
 Lab File: VU027873.D
 Acq: 30 Oct 2018 14:22

Tgt Ion	Ratio	Lower	Upper
56	100		
69	16.7	22.7	34.1#
84	73.3	58.1	87.1





#31

Carbon tetrachloride

Concen: 0.259 ug/L

RT: 5.13 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VU027873.D

Acq: 30 Oct 2018 14:22

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion:117 Resp: 2289

Ion Ratio Lower Upper

117 100

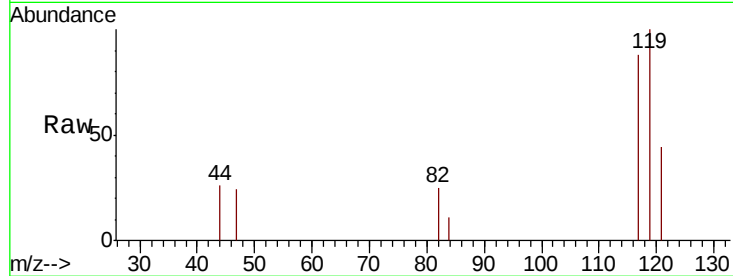
119 109.9 77.1 115.7

Manual Integrations

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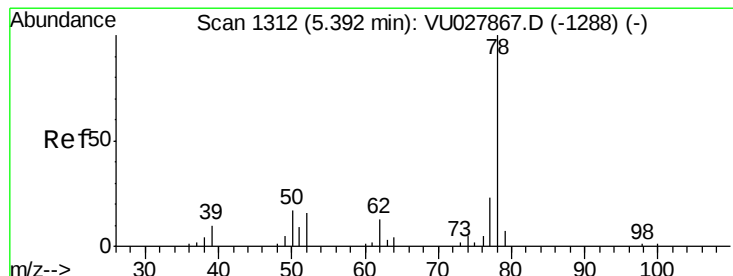
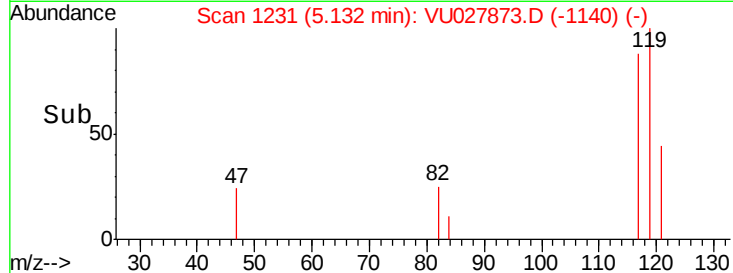
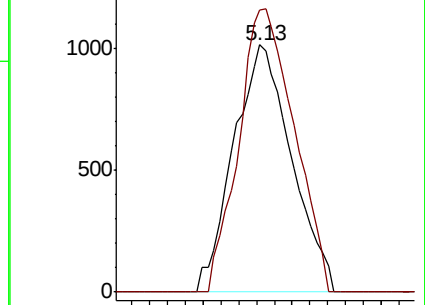
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Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.300 ug/L m

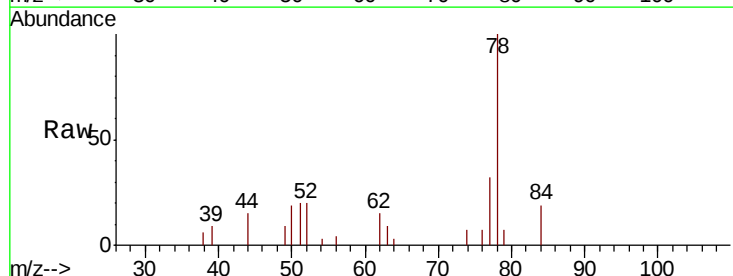
RT: 5.39 min Scan# 1312

Delta R.T. 0.00 min

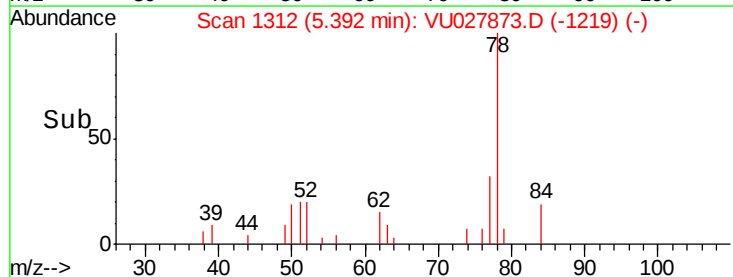
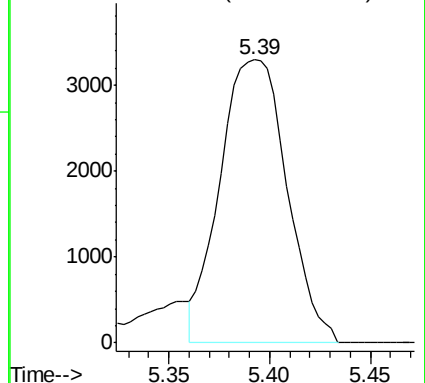
Lab File: VU027873.D

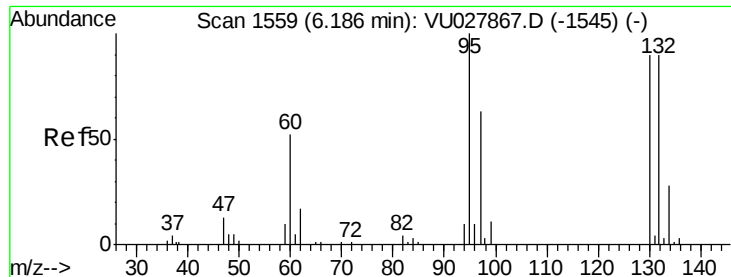
Acq: 30 Oct 2018 14:22

Tgt Ion: 78 Resp: 7595



Abundance Ion 78.10 (77.80 to 78.80): VU0





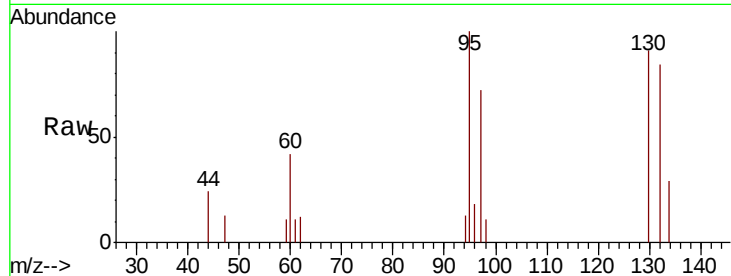
#34
 Trichloroethene
 Concen: 0.305 ug/L
 RT: 6.19 min Scan# 1560
 Delta R.T. 0.00 min
 Lab File: VU027873.D
 Acq: 30 Oct 2018 14:22

Instrument :
 MSVOA_U
 ClientSampled :
 MDL02

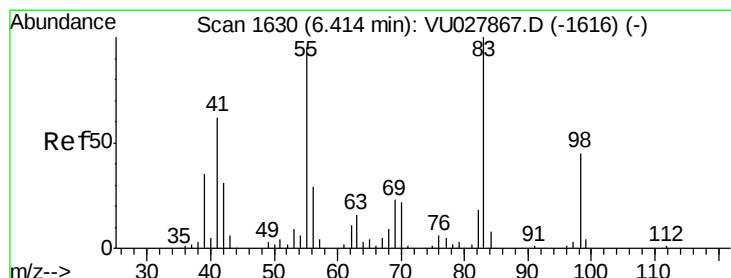
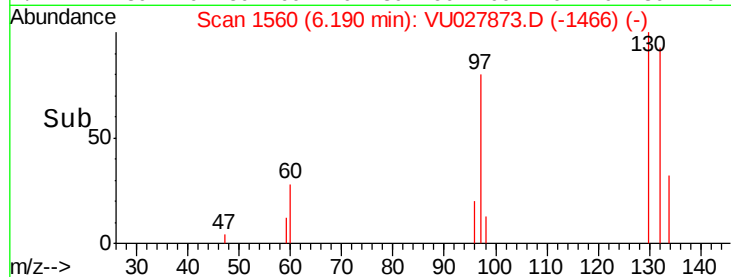
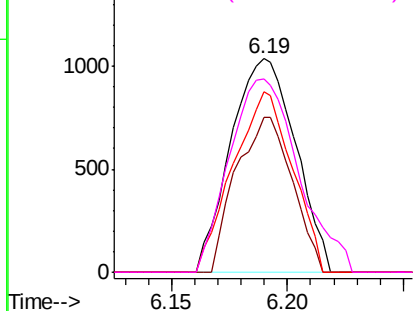
Tot Ion	95	Resp	2010
Ion	Ratio	Lower	Upper
95	100		
97	72.3	44.0	81.6
132	84.4	63.3	117.5
130	90.6	63.1	117.3

Manual Integrations
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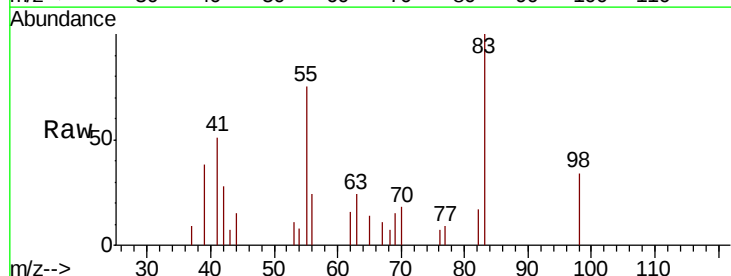


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

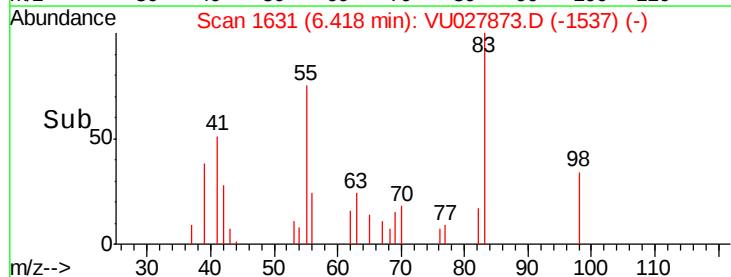
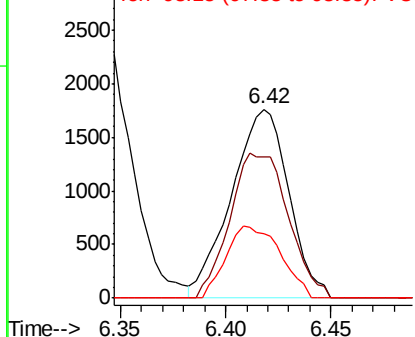


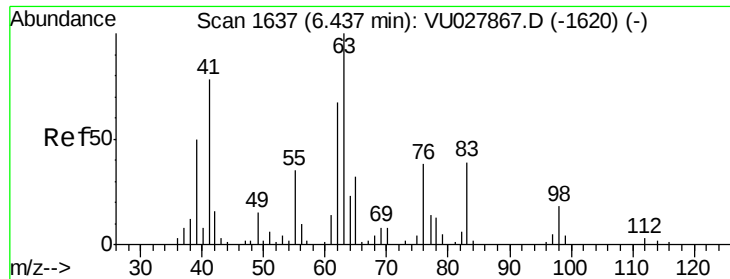
#35
 Methylcyclohexane
 Concen: 0.298 ug/L
 RT: 6.42 min Scan# 1631
 Delta R.T. 0.00 min
 Lab File: VU027873.D
 Acq: 30 Oct 2018 14:22

Tgt Ion	83	Resp	3338
Ion	Ratio	Lower	Upper
83	100		
55	78.0	73.4	110.0
98	36.0	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





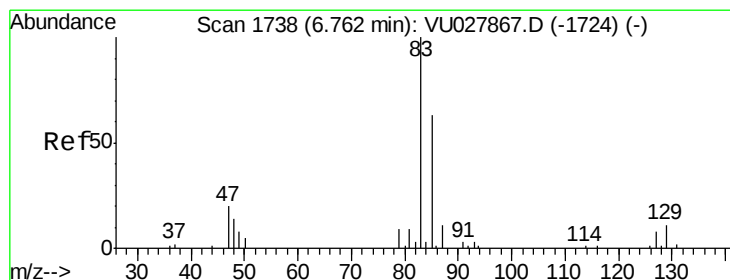
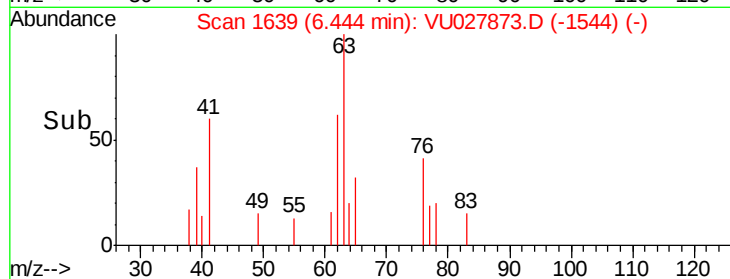
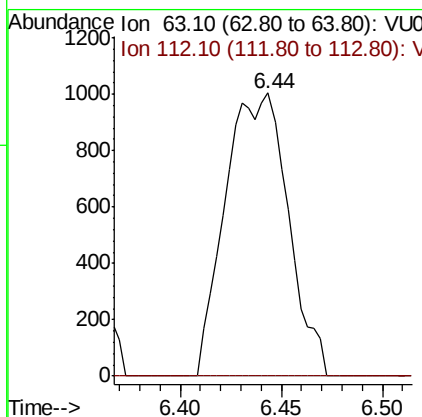
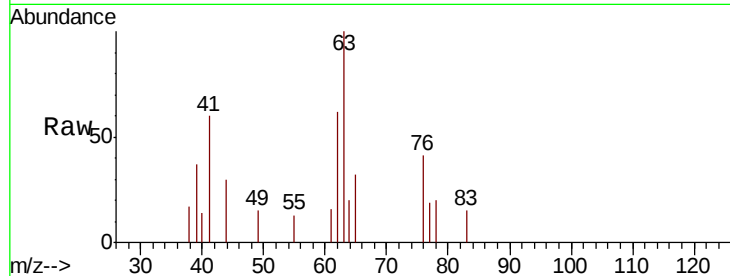
#37
 1,2-Dichloropropane
 Concen: 0.301 ug/L m
 RT: 6.44 min Scan# 1639
 Delta R.T. 0.01 min
 Lab File: VU027873.D
 Acq: 30 Oct 2018 14:22

Instrument :
 MSVOA_U
 ClientSampled :
 MDL02

Tot Ion: 63 Resp: 2167
 Ion Ratio Lower Upper
 63 100
 112 0.0 2.6 3.8#

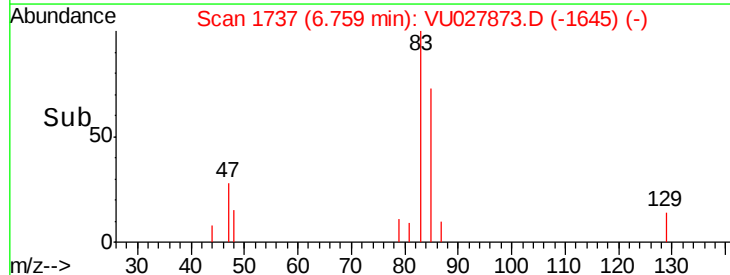
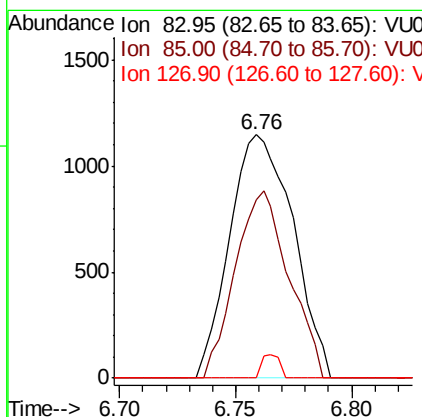
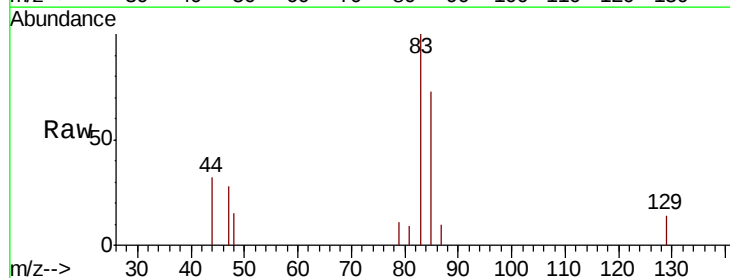
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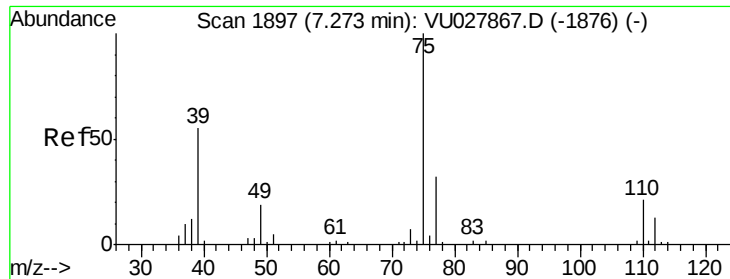
MMDadoda
 11/1/2018 1:40:19 PM



#38
 Bromodichloromethane
 Concen: 0.258 ug/L
 RT: 6.76 min Scan# 1737
 Delta R.T. -0.00 min
 Lab File: VU027873.D
 Acq: 30 Oct 2018 14:22

Tgt Ion: 83 Resp: 2176
 Ion Ratio Lower Upper
 83 100
 85 73.1 43.8 81.4
 127 0.0 6.4 9.6#





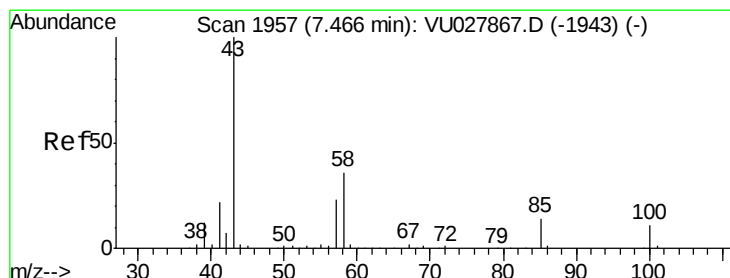
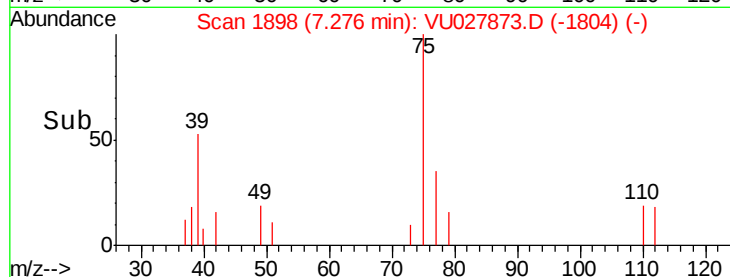
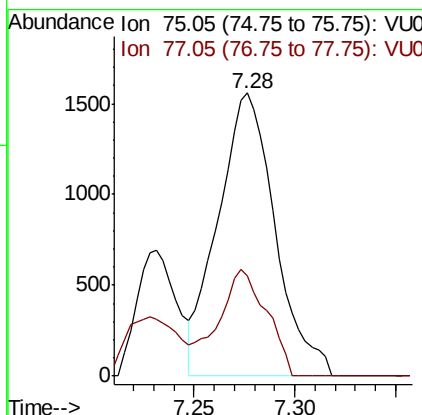
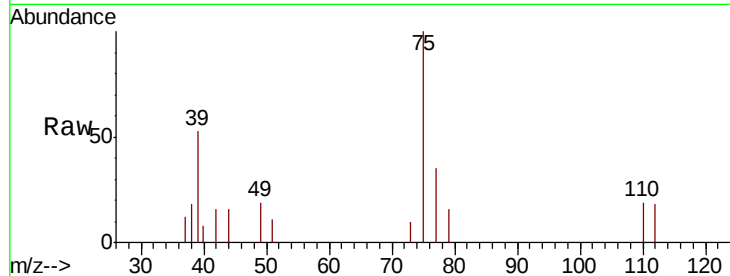
#39
 cis-1,3-Dichloropropene
 Concen: 0.298 ug/L
 RT: 7.28 min Scan# 1898
 Delta R.T. 0.00 min
 Lab File: VU027873.D
 Acq: 30 Oct 2018 14:22

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion: 75 Resp: 3078
 Ion Ratio Lower Upper
 75 100
 77 35.4 22.2 41.2

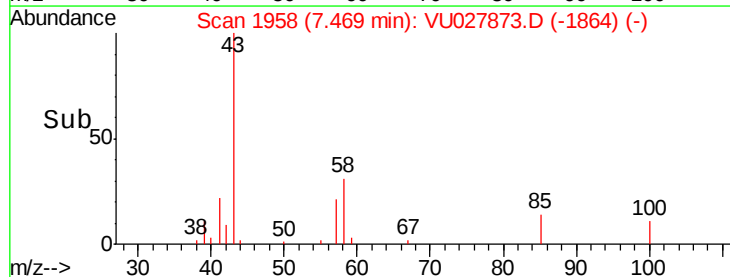
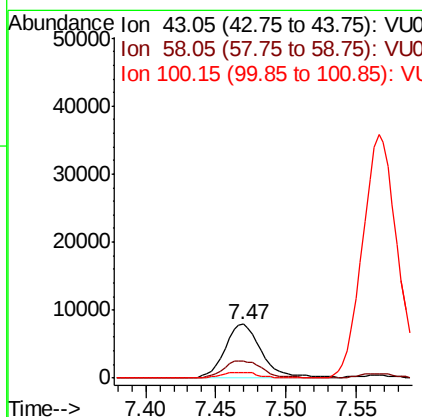
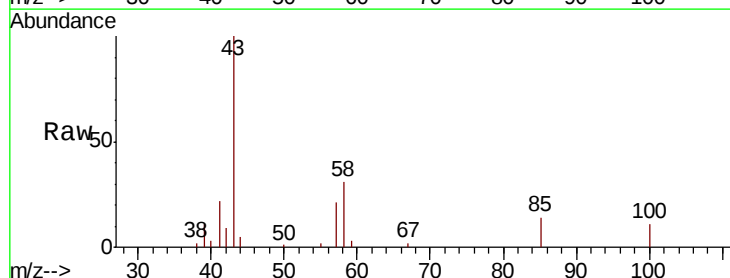
Manual Integrations
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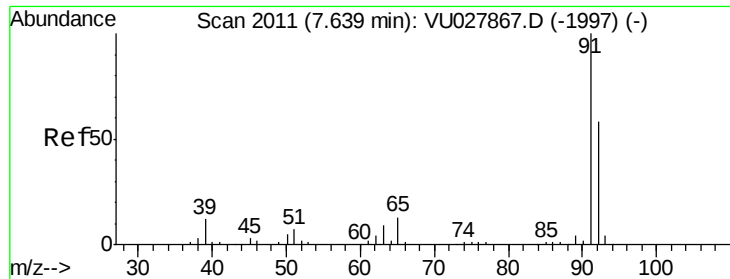
MMDadoda
 11/1/2018 1:40:19 PM



#40
 4-Methyl-2-pentanone
 Concen: 2.866 ug/L
 RT: 7.47 min Scan# 1958
 Delta R.T. 0.00 min
 Lab File: VU027873.D
 Acq: 30 Oct 2018 14:22

Tgt Ion: 43 Resp: 14602
 Ion Ratio Lower Upper
 43 100
 58 33.5 28.5 42.7
 100 0.0 8.8 13.2#





#42

Toluene

Concen: 0.278 ug/L

RT: 7.64 min Scan# 2011

Delta R.T. 0.00 min

Lab File: VU027873.D

Acq: 30 Oct 2018 14:22

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion: 91 Resp: 7351

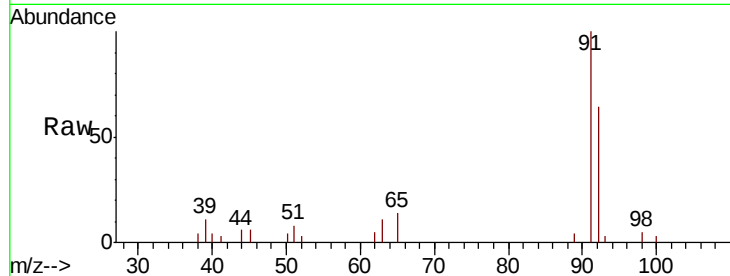
Ion Ratio Lower Upper

91 100

92 63.5 40.3 74.9

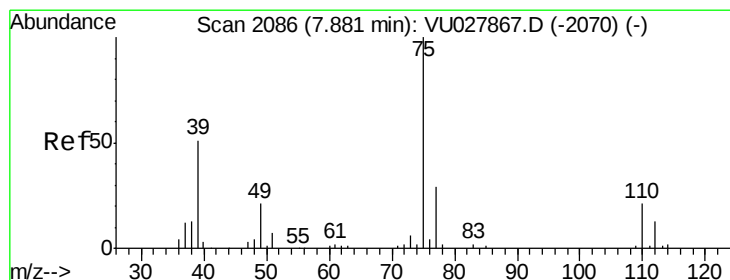
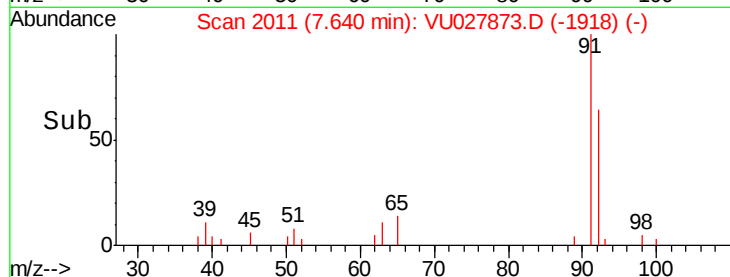
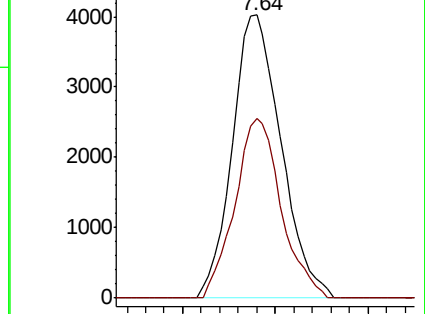
Manual Integrations
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Abundance Ion 91.15 (90.85 to 91.85): VU027867.D (-1997) (-)

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



#44

trans-1,3-Dichloropropene

Concen: 0.259 ug/L

RT: 7.88 min Scan# 2086

Delta R.T. 0.00 min

Lab File: VU027873.D

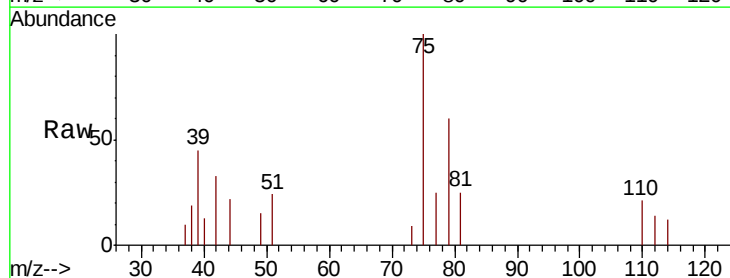
Acq: 30 Oct 2018 14:22

Tgt Ion: 75 Resp: 2299

Ion Ratio Lower Upper

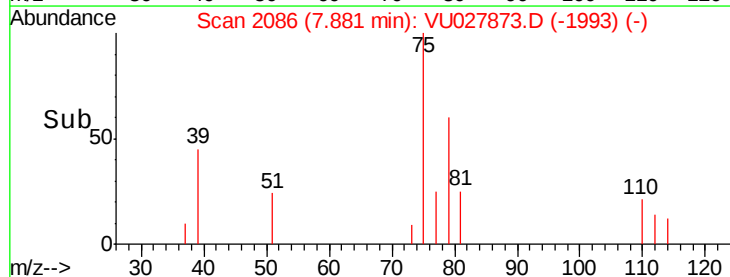
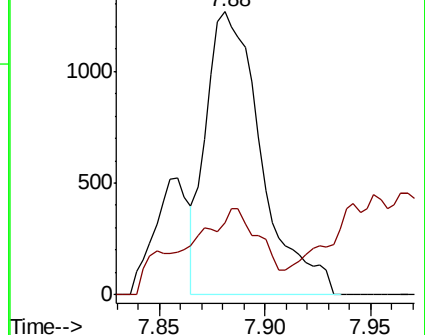
75 100

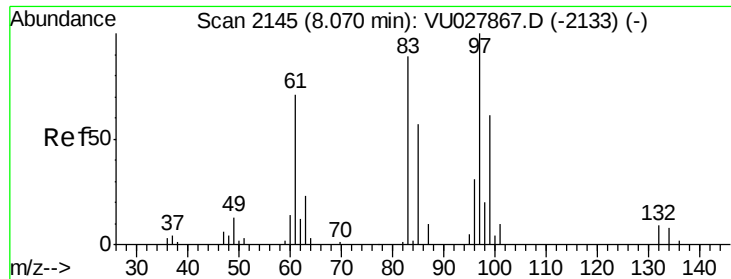
77 25.3 20.5 38.1



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

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





#45

1,1,2-Trichloroethane

Concen: 0.257 ug/L

RT: 8.07 min Scan# 2146

Delta R.T. 0.00 min

Lab File: VU027873.D

Acq: 30 Oct 2018 14:22

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion: 97 Resp: 1140

Ion Ratio Lower Upper

97 100

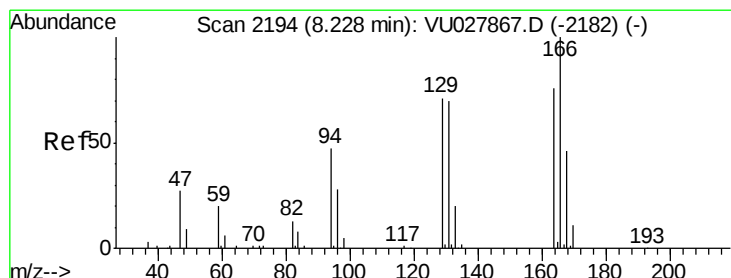
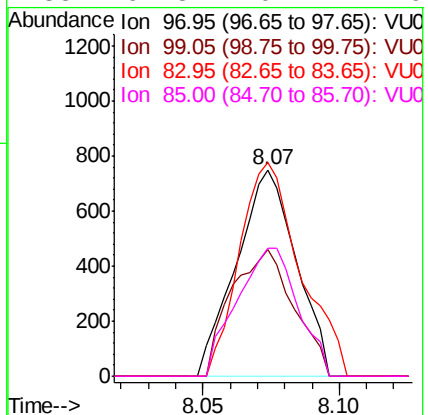
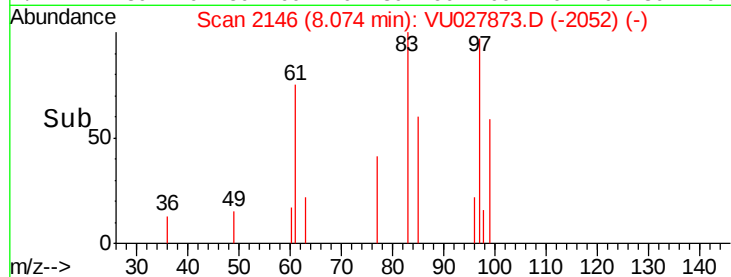
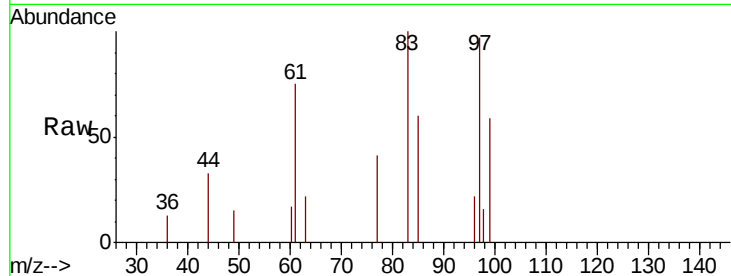
99 61.3 42.9 79.7

83 103.3 62.2 115.6

85 61.8 40.2 74.6

Manual Integrations
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#47

Tetrachloroethene

Concen: 0.274 ug/L

RT: 8.23 min Scan# 2196

Delta R.T. 0.01 min

Lab File: VU027873.D

Acq: 30 Oct 2018 14:22

Tgt Ion: 164 Resp: 1386

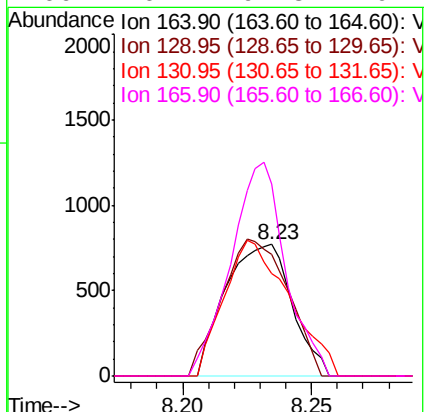
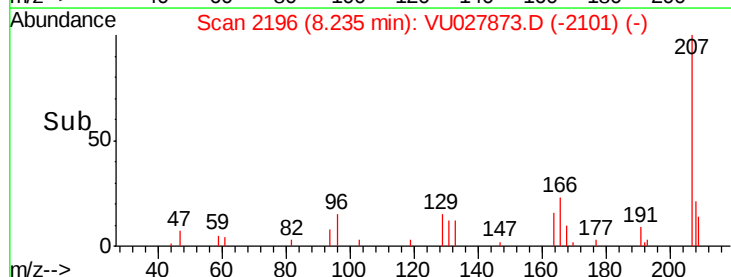
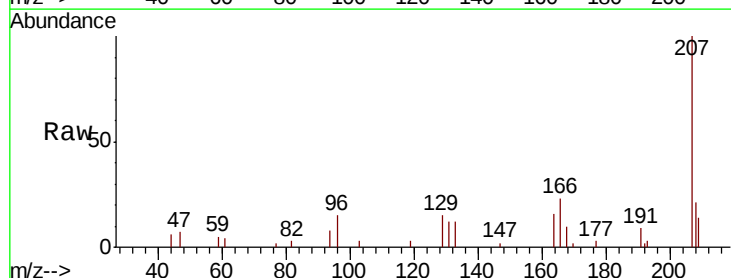
Ion Ratio Lower Upper

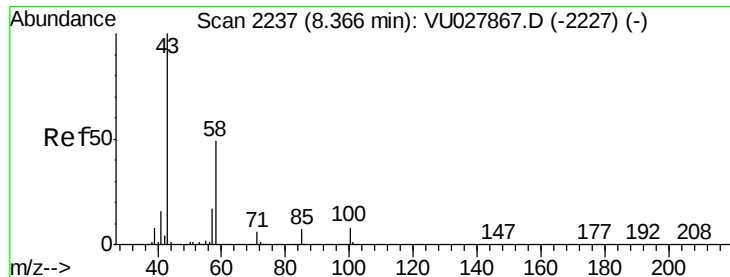
164 100

129 92.2 64.9 120.5

131 77.6 64.3 119.5

166 146.4 91.8 170.4





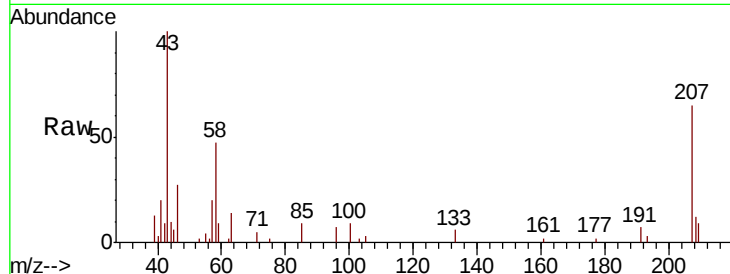
#48
2-Hexanone
Concen: 3.036 ug/L
RT: 8.37 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VU027873.D
Acq: 30 Oct 2018 14:22

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.2	38.9	58.3
57	18.7	13.3	19.9
100	6.8	6.6	10.0

Manual Integrations
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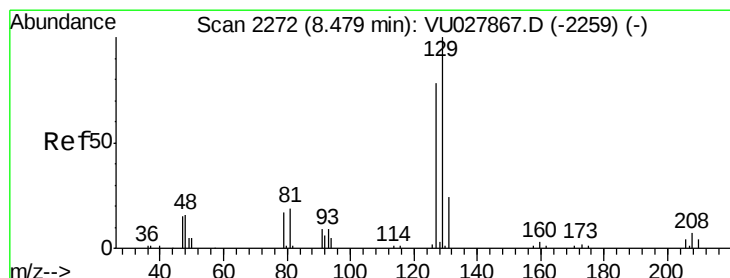
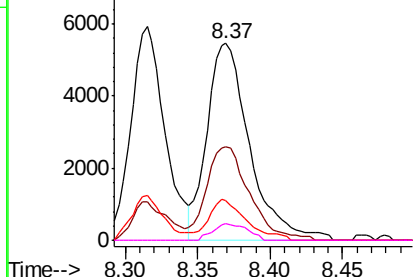
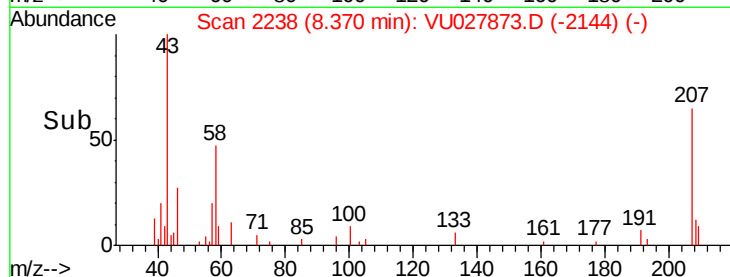
Abundance

Ion 43.05 (42.75 to 43.75): VU027867.D (-2227) (-)

Ion 58.05 (57.75 to 58.75): VU027867.D (-2227) (-)

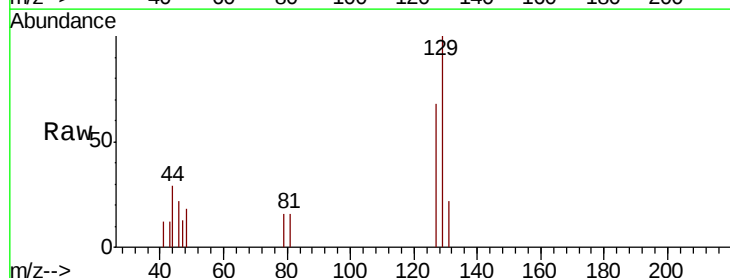
Ion 57.20 (56.90 to 57.90): VU027867.D (-2227) (-)

Ion 100.15 (99.85 to 100.85): VU027867.D (-2227) (-)



#49
Dibromochloromethane
Concen: 0.287 ug/L
RT: 8.48 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VU027873.D
Acq: 30 Oct 2018 14:22

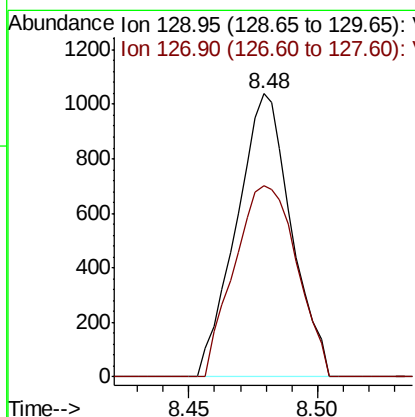
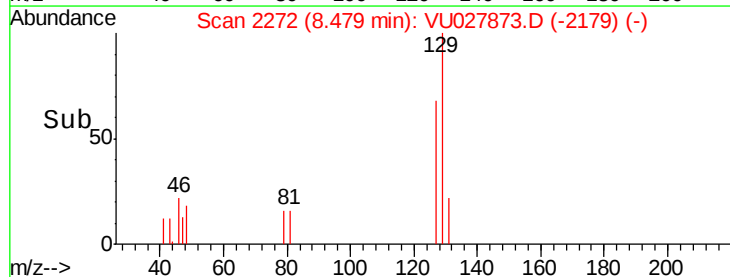
Tgt Ion	Ratio	Lower	Upper
129	100		
127	67.5	54.5	101.1

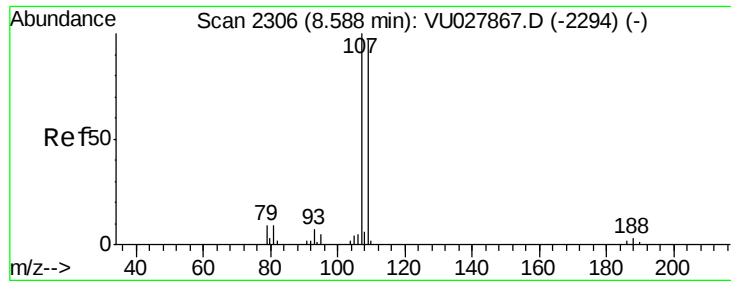


Abundance

Ion 128.95 (128.65 to 129.65): VU027867.D (-2259) (-)

Ion 126.90 (126.60 to 127.60): VU027867.D (-2259) (-)





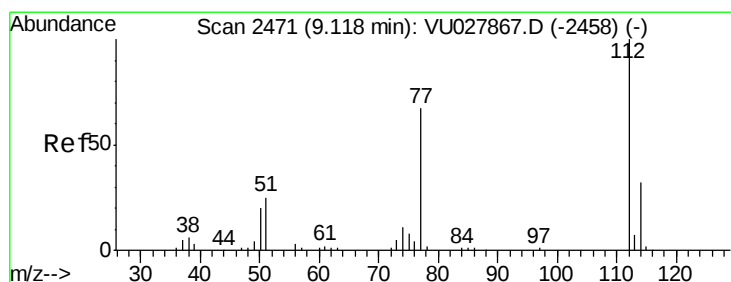
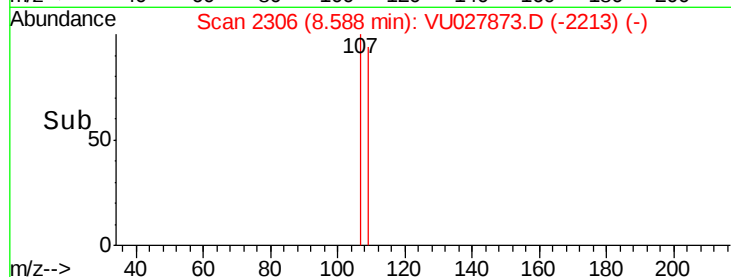
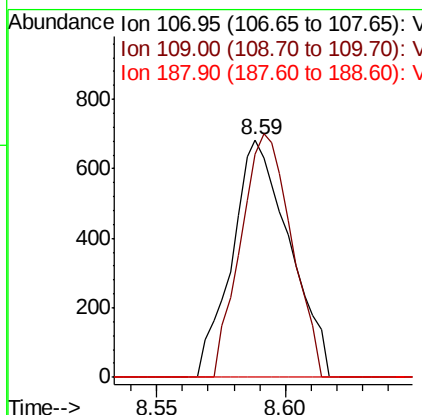
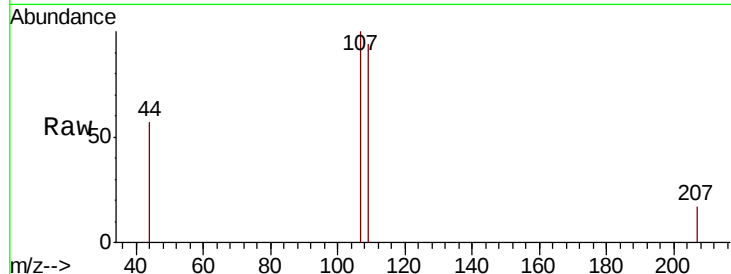
#50
1,2-Dibromoethane
Concen: 0.251 ug/L
RT: 8.59 min Scan# 2306
Delta R.T. 0.00 min
Lab File: VU027873.D
Acq: 30 Oct 2018 14:22

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.1	68.0	126.4
188	0.0	2.7	4.1#

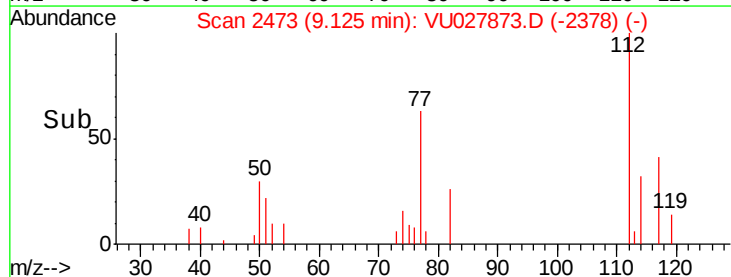
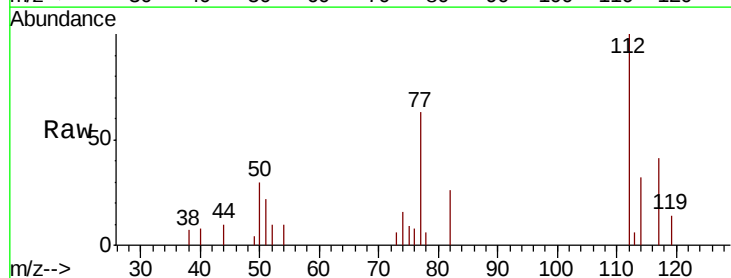
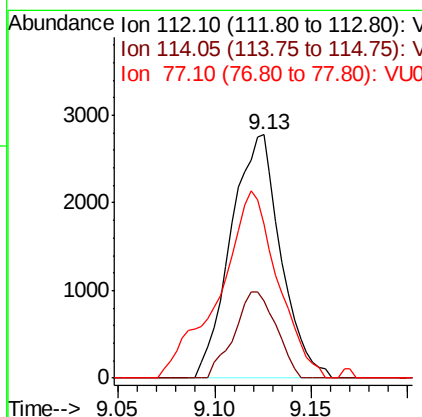
Manual Integrations
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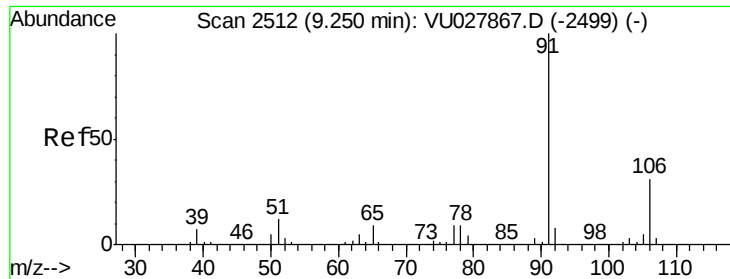
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#51
Chlorobenzene
Concen: 0.303 ug/L
RT: 9.13 min Scan# 2473
Delta R.T. 0.01 min
Lab File: VU027873.D
Acq: 30 Oct 2018 14:22

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.0	41.0
77	63.4	54.3	81.5





#52

Ethylbenzene

Concen: 0.285 ug/L

RT: 9.25 min Scan# 2512

Delta R.T. 0.00 min

Lab File: VU027873.D

Acq: 30 Oct 2018 14:22

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion: 91 Resp: 8614

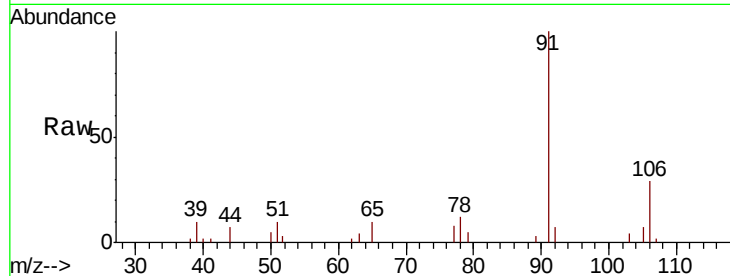
Ion Ratio Lower Upper

91 100

106 28.8 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) (-)

9.25

6000

5000

4000

3000

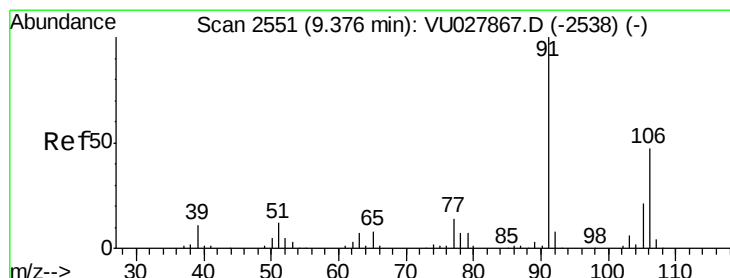
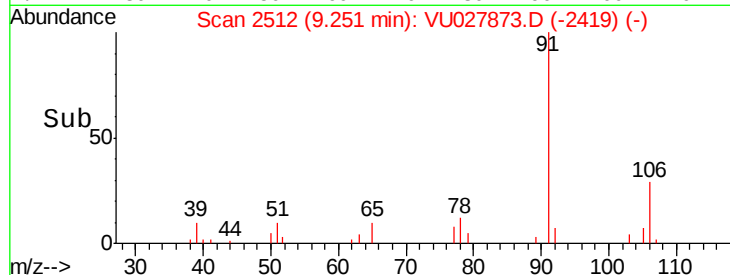
2000

1000

0

Time-->

9.20 9.25 9.30



#53

m,p-xylene

Concen: 0.282 ug/L

RT: 9.38 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VU027873.D

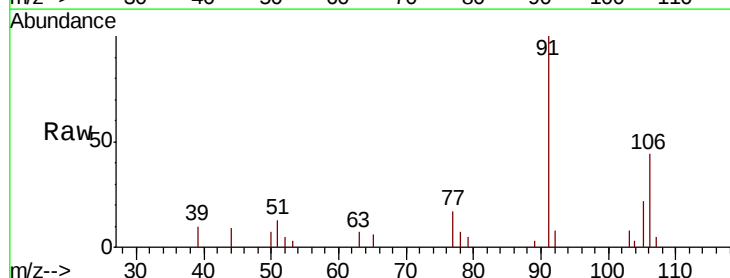
Acq: 30 Oct 2018 14:22

Tgt Ion: 106 Resp: 3082

Ion Ratio Lower Upper

106 100

91 226.7 148.7 276.1



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

4000

3000

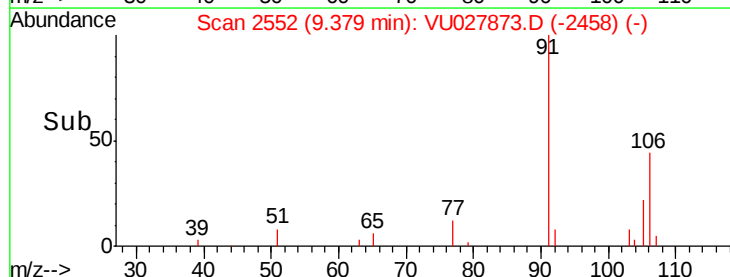
2000

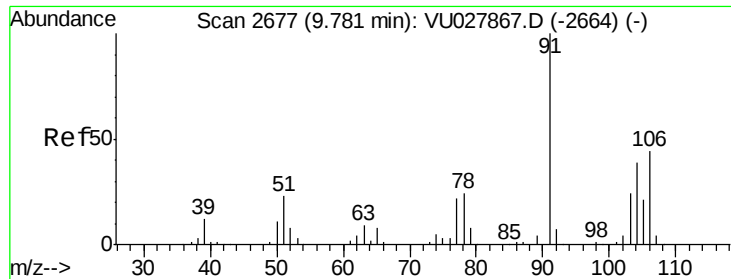
1000

0

Time-->

9.35 9.40





#54

o-xylene

Concen: 0.252 ug/L

RT: 9.78 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VU027873.D

Acq: 30 Oct 2018 14:22

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tot Ion:106 Resp: 2710

Ion Ratio Lower Upper

106 100

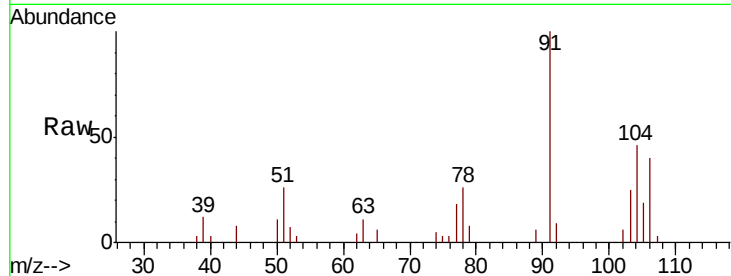
91 252.3 158.3 293.9

Manual Integrations

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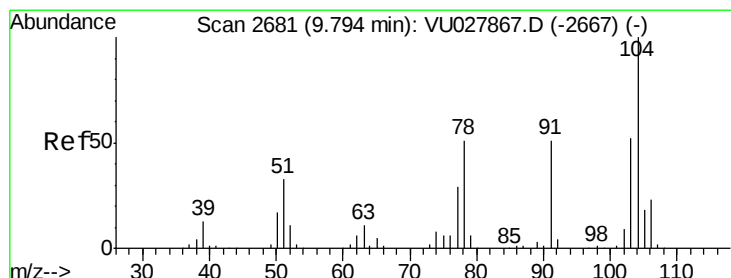
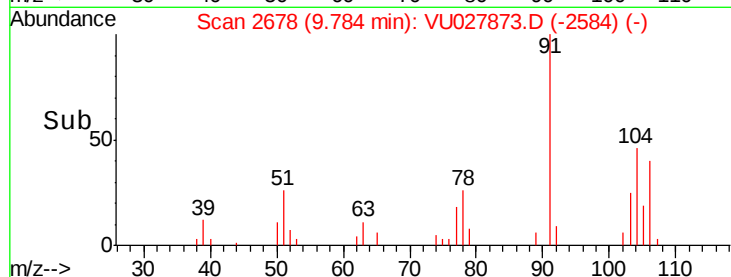
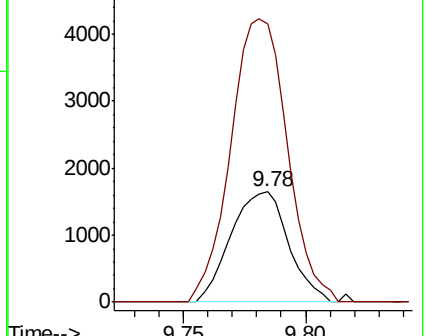
MMDadoda

11/1/2018 1:40:19 PM



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 0.273 ug/L

RT: 9.79 min Scan# 2681

Delta R.T. 0.00 min

Lab File: VU027873.D

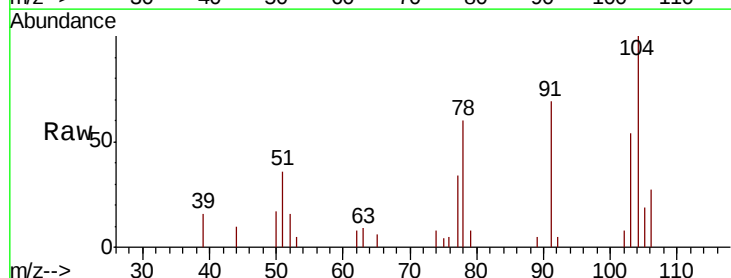
Acq: 30 Oct 2018 14:22

Tgt Ion:104 Resp: 4912

Ion Ratio Lower Upper

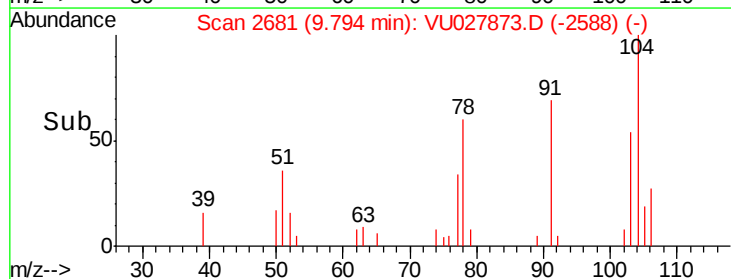
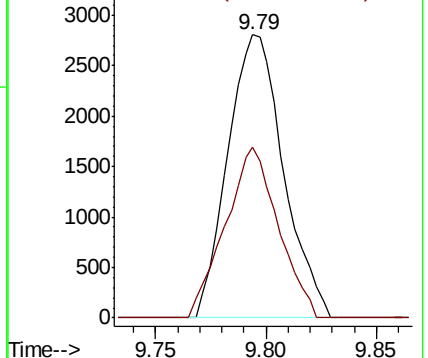
104 100

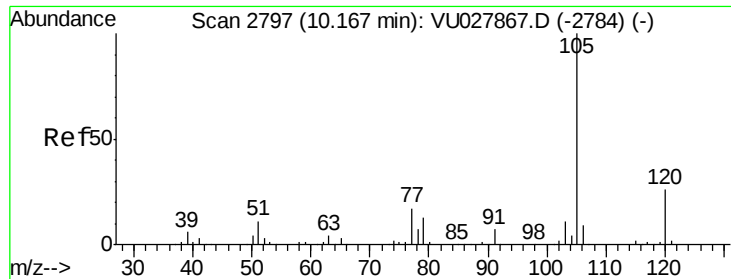
78 60.4 35.6 66.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 0.286 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU027873.D

Acq: 30 Oct 2018 14:22

Instrument :

MSVOA_U

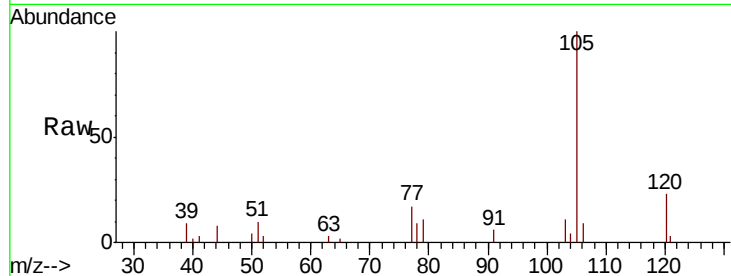
ClientSampled :

MDL02

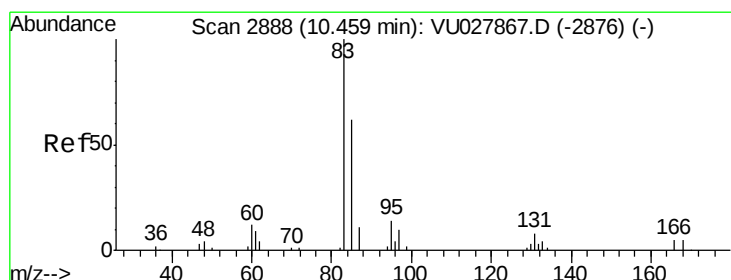
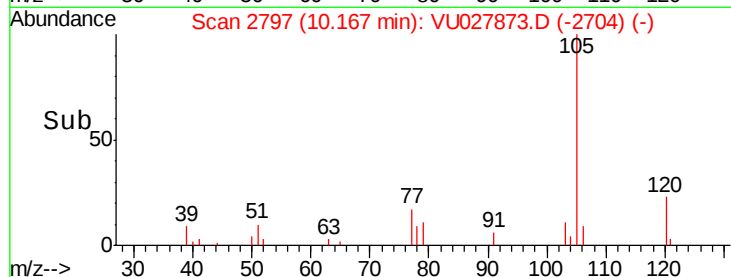
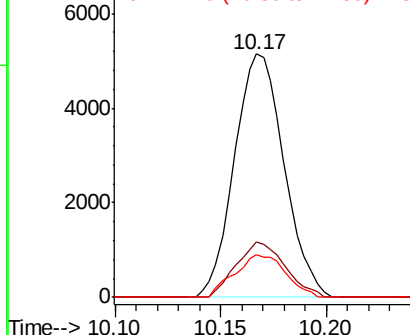
Tot Ion:	105	Resp:	8393
Ion Ratio	Lower	Upper	
105	100		
120	22.5	20.2	30.2
77	17.8	13.4	20.2

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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: 0.283 ug/L

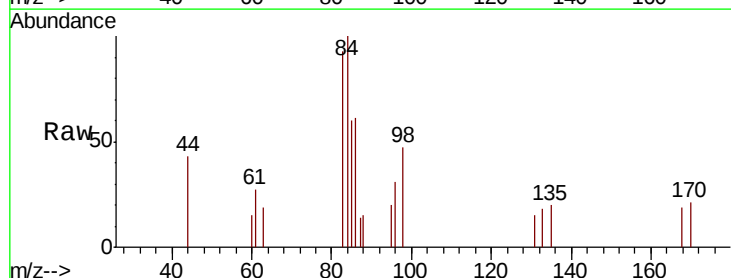
RT: 10.46 min Scan# 2888

Delta R.T. 0.00 min

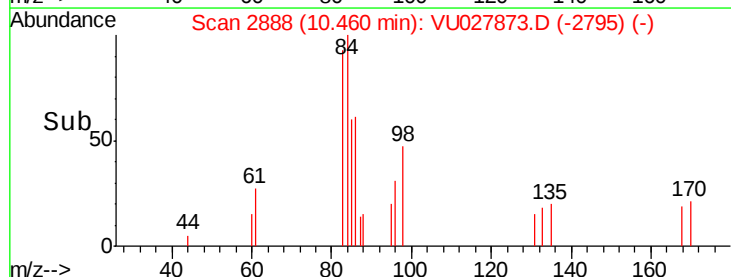
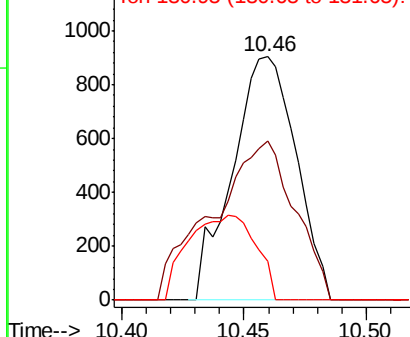
Lab File: VU027873.D

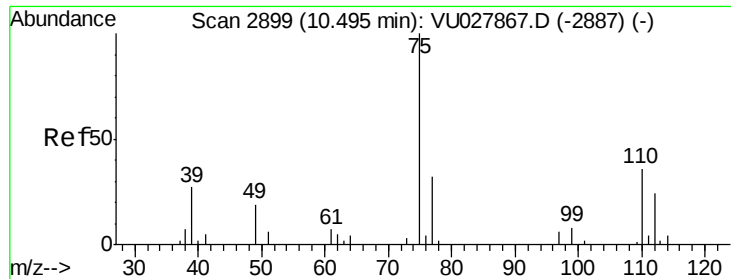
Acq: 30 Oct 2018 14:22

Tgt Ion:	83	Resp:	1637
Ion Ratio	Lower	Upper	
83	100		
85	65.3	44.4	82.4
131	15.9	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





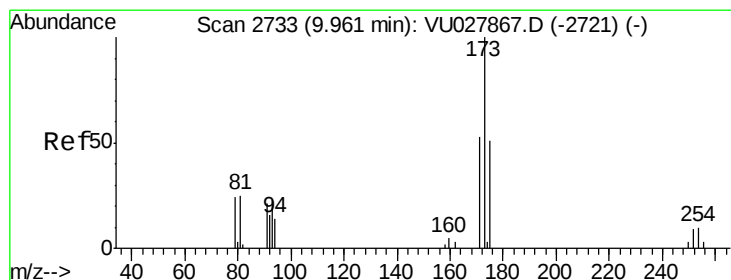
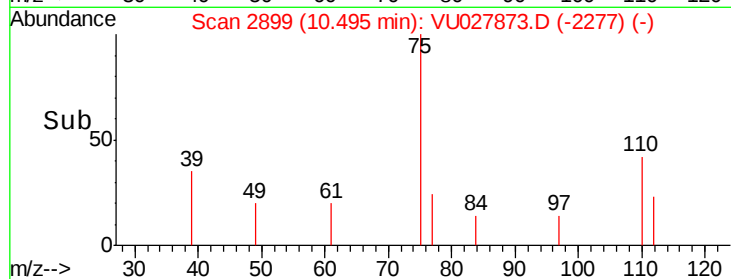
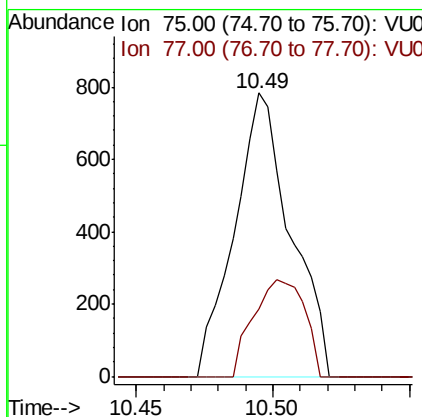
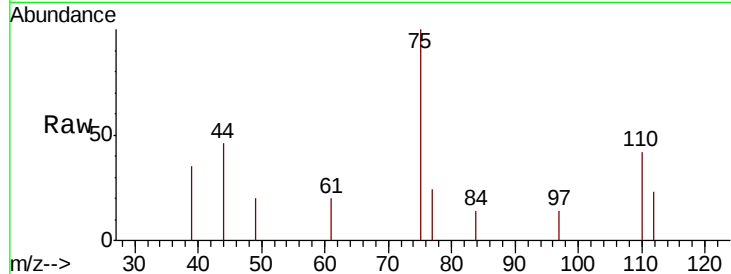
#59
 1,2,3-Trichloropropane
 Concen: 0.256 ug/L
 RT: 10.49 min Scan# 2899
 Delta R.T. 0.00 min
 Lab File: VU027873.D
 Acq: 30 Oct 2018 14:22

Instrument :
 MSVOA_U
 ClientSampled :
 MDL02

Tot Ion: 75 Resp: 1120
 Ion Ratio Lower Upper
 75 100
 77 31.0 25.8 38.6

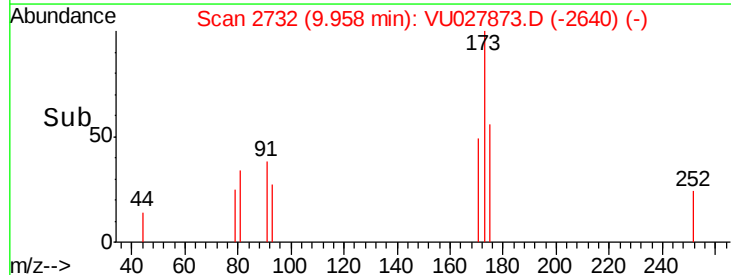
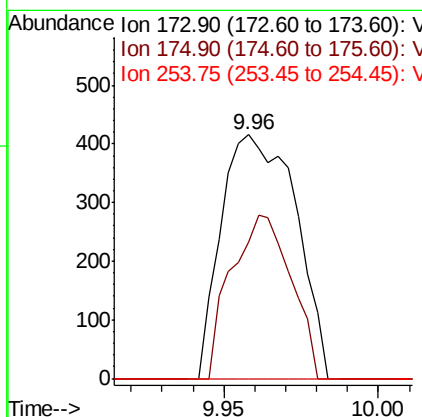
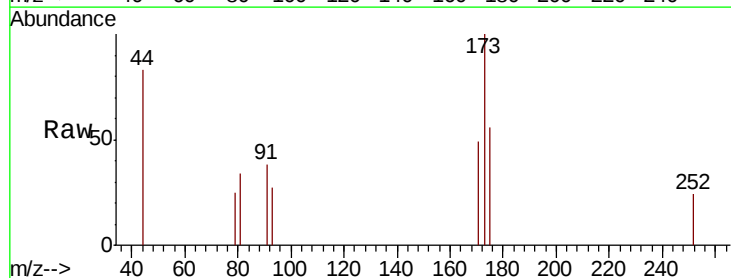
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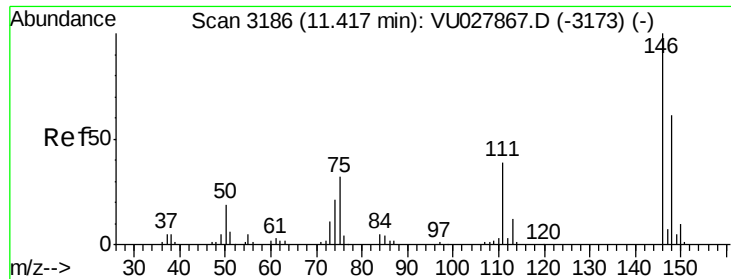
MMDadoda
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#61
 Bromoform
 Concen: 0.243 ug/L
 RT: 9.96 min Scan# 2732
 Delta R.T. -0.00 min
 Lab File: VU027873.D
 Acq: 30 Oct 2018 14:22

Tgt Ion: 173 Resp: 696
 Ion Ratio Lower Upper
 173 100
 175 54.3 38.3 57.5
 254 0.0 7.8 11.6#





#62

1,3-Dichlorobenzene

Concen: 0.281 ug/L

RT: 11.42 min Scan# 3187

Delta R.T. 0.00 min

Lab File: VU027873.D

Acq: 30 Oct 2018 14:22

Instrument :

MSVOA_U

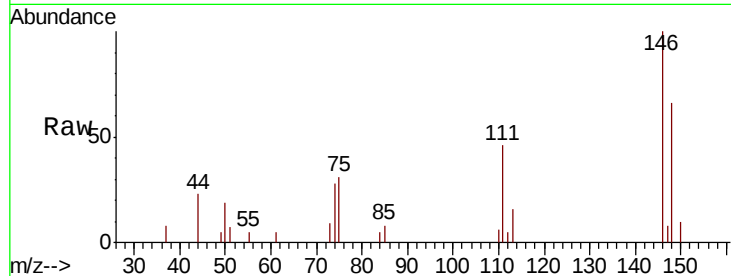
ClientSampleId :

MDL02

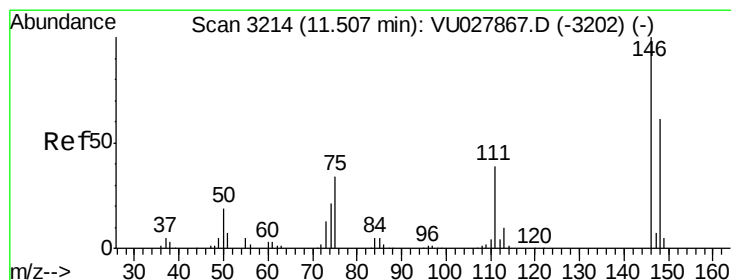
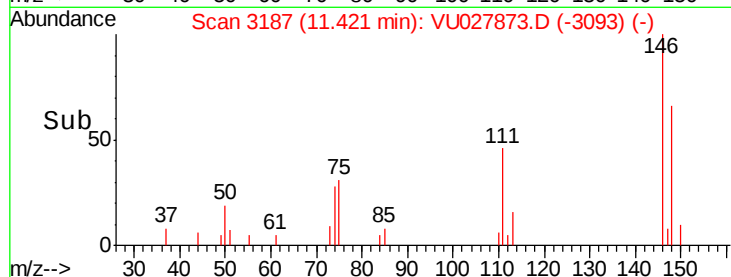
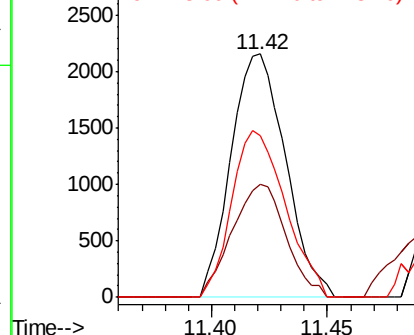
Tot Ion:	146	Resp:	3520
Ion	Ratio	Lower	Upper
146	100		
111	46.4	27.4	51.0
148	66.3	42.6	79.0

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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: 0.308 ug/L

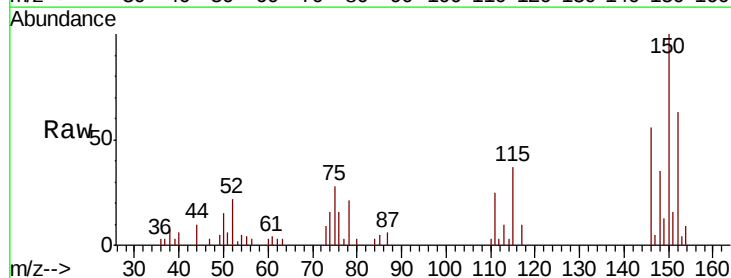
RT: 11.51 min Scan# 3214

Delta R.T. 0.00 min

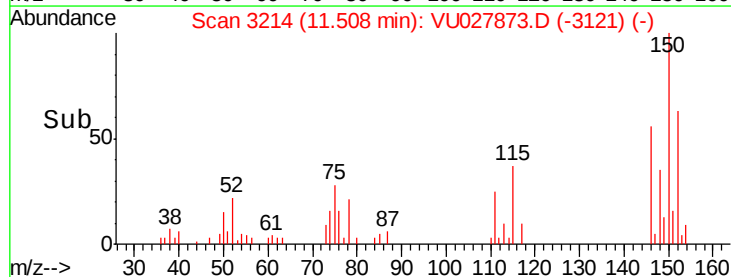
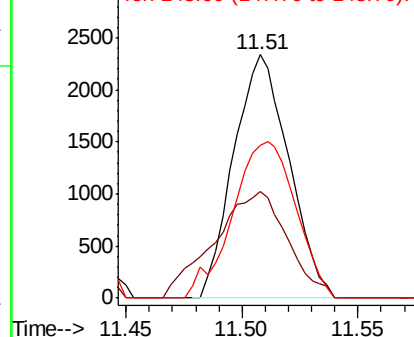
Lab File: VU027873.D

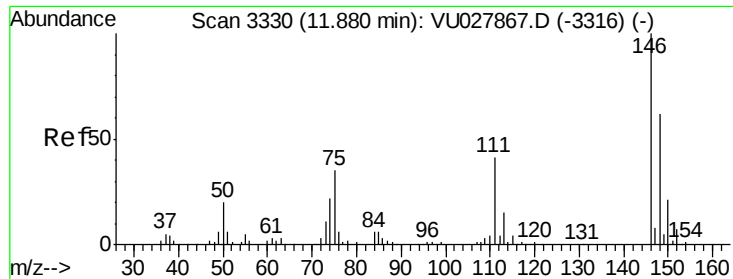
Acq: 30 Oct 2018 14:22

Tgt Ion:	146	Resp:	3847
Ion	Ratio	Lower	Upper
146	100		
111	43.8	27.4	51.0
148	63.0	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: 0.328 ug/L

RT: 11.88 min Scan# 3330

Delta R.T. 0.00 min

Lab File: VU027873.D

Acq: 30 Oct 2018 14:22

Instrument :

MSVOA_U

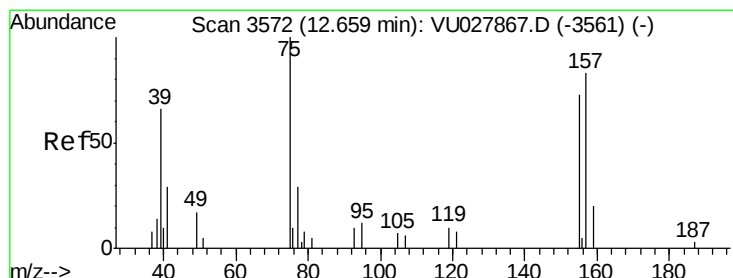
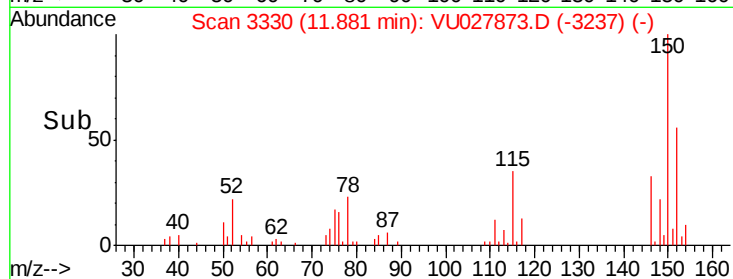
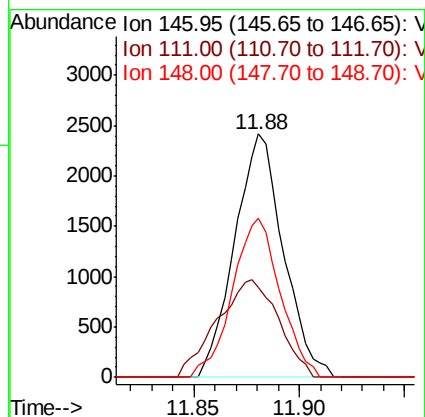
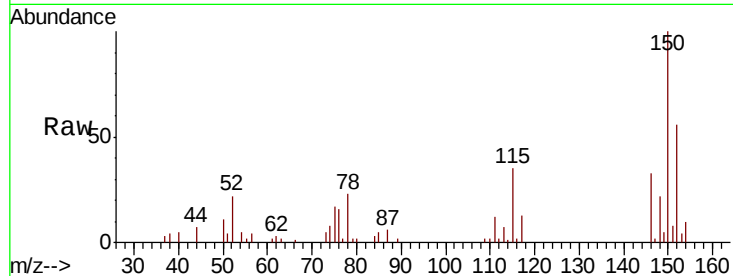
ClientSampled :

MDL02

Tot Ion:	146	Resp:	3873
Ion Ratio	Lower	Upper	
146	100		
111	37.0	33.0	49.4
148	65.5	49.2	73.8

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#66

1,2-Dibromo-3-chloropropane

Concen: 0.231 ug/L

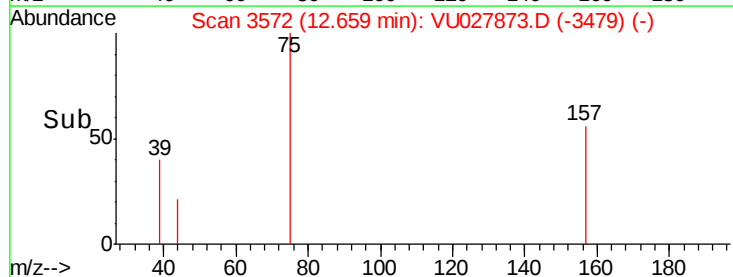
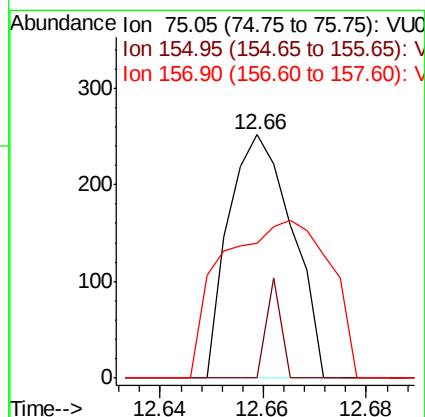
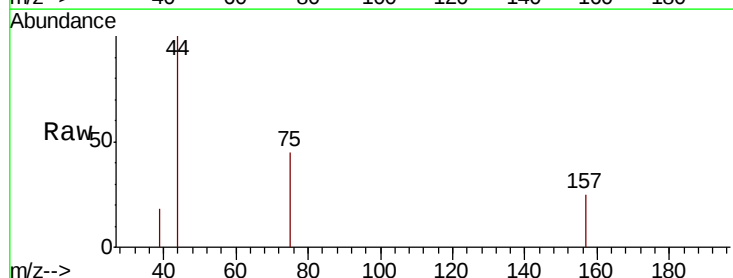
RT: 12.66 min Scan# 3572

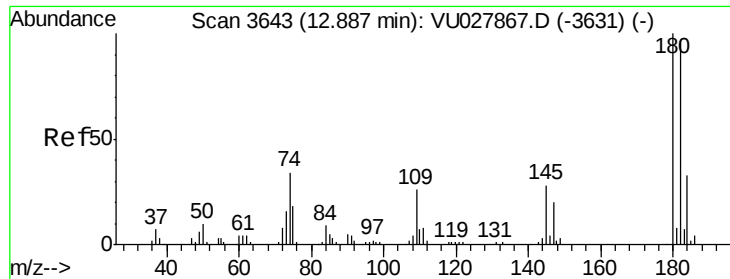
Delta R.T. 0.00 min

Lab File: VU027873.D

Acq: 30 Oct 2018 14:22

Tgt Ion:	75	Resp:	214
Ion Ratio	Lower	Upper	
75	100		
155	0.0	58.6	87.8#
157	55.6	66.7	100.1#





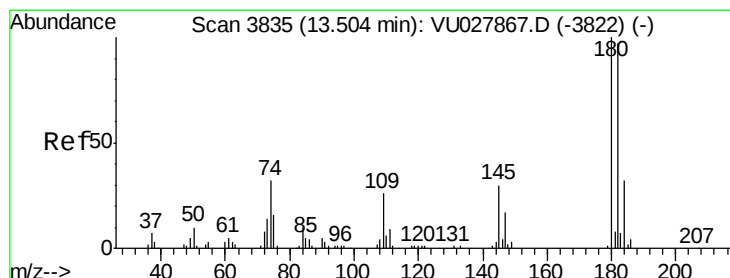
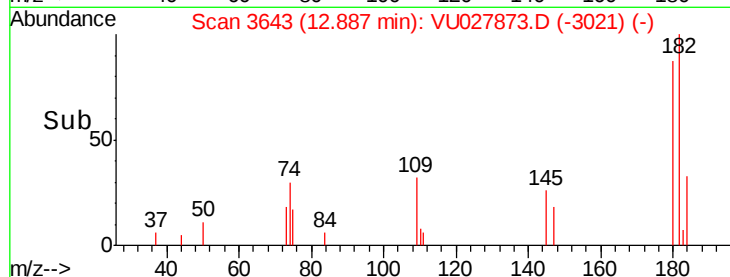
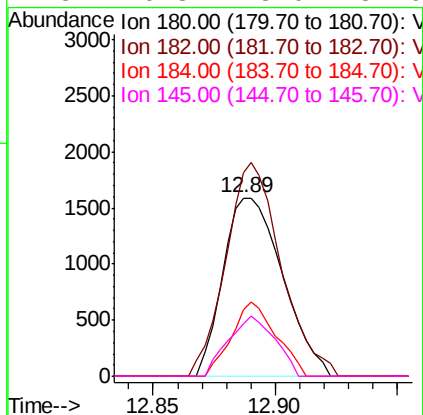
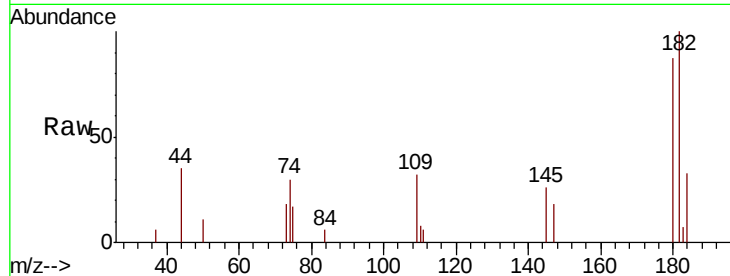
#67
 1,3,5-Trichlorobenzene
 Concen: 0.268 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. 0.00 min
 Lab File: VU027873.D
 Acq: 30 Oct 2018 14:22

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
180	100		
182	110.9	77.3	115.9
184	30.9	24.6	37.0
145	26.3	23.0	34.6

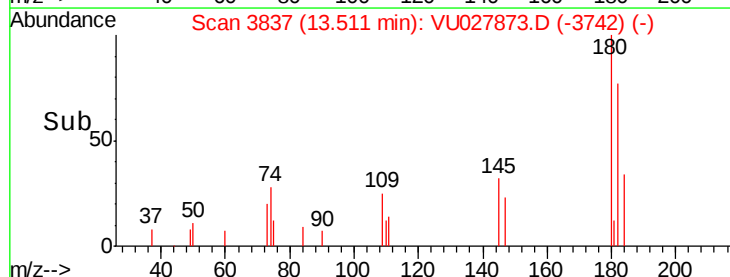
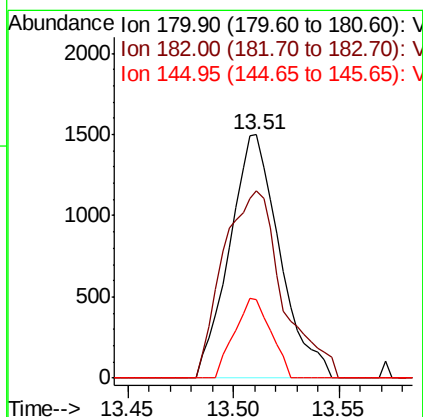
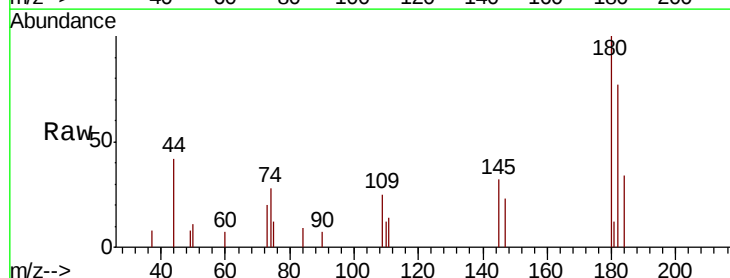
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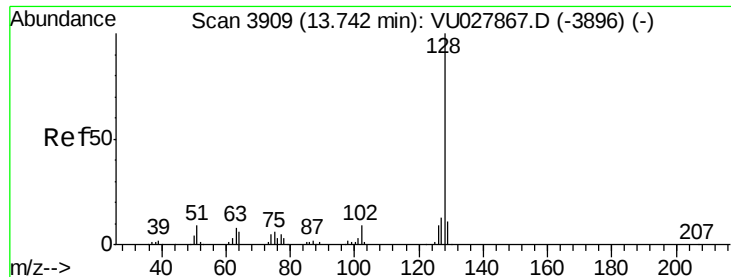
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#68
 1,2,4-trichlorobenzene
 Concen: 0.290 ug/L
 RT: 13.51 min Scan# 3837
 Delta R.T. 0.01 min
 Lab File: VU027873.D
 Acq: 30 Oct 2018 14:22

Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.9	77.8	116.6
145	23.8	22.9	34.3





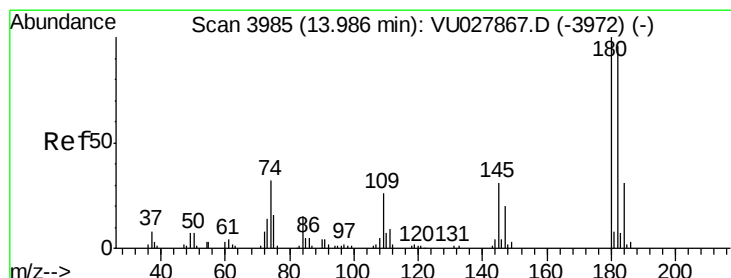
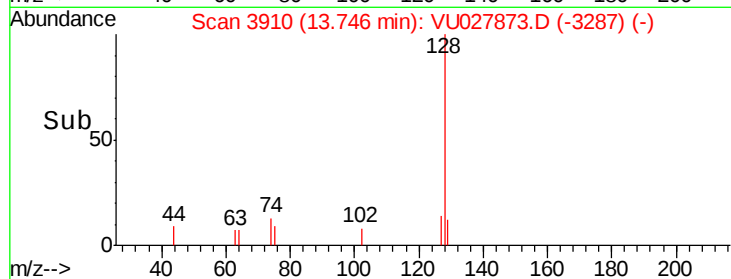
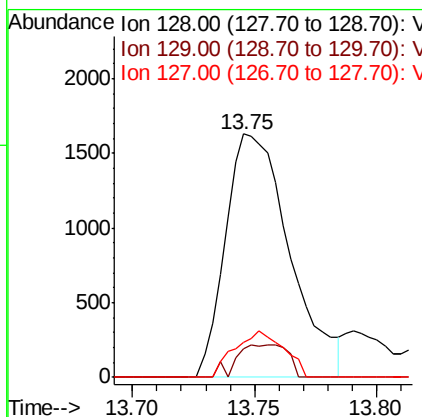
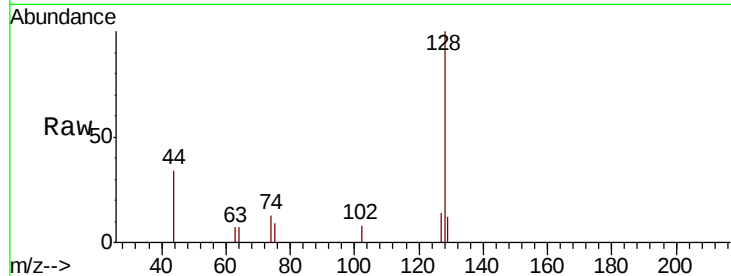
#69
Naphthalene
Concen: 0.224 ug/L
RT: 13.75 min Scan# 3910
Delta R.T. 0.00 min
Lab File: VU027873.D
Acq: 30 Oct 2018 14:22

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tot Ion	Ratio	Lower	Upper
128	100		
129	10.6	8.6	12.8
127	14.5	10.5	15.7

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#70
1,2,3-Trichlorobenzene
Concen: 0.320 ug/L
RT: 14.00 min Scan# 3988
Delta R.T. 0.01 min
Lab File: VU027873.D
Acq: 30 Oct 2018 14:22

Tgt Ion	Ratio	Lower	Upper
180	100		
182	84.8	79.4	119.0
145	23.6	25.4	38.0#

