

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102318\
 Data File : VU027748.D
 Acq On : 22 Oct 2018 18:45
 Operator : MD/SY
 Sample : VSTDIC002
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC002

Manual Integrations
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 10/24/2018 2:20:10 PM

Quant Time: Oct 23 04:34:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U0102318DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Oct 23 04:01:57 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.75	96	13523	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	5145	0.99	ug/l	0.00
Spiked Amount 1.000			Recovery	=	99.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	4897	1.02	ug/l	0.00
Spiked Amount 1.000			Recovery	=	102.00%	
Target Compounds						
					Ovalue	
2) Dichlorodifluoromethane	1.21	85	10771	1.888	ug/l	96
3) Chloromethane	1.33	50	11337	1.850	ug/l	99
4) Vinyl Chloride	1.40	62	10468	1.828	ug/l	99
5) Bromomethane	1.63	94	5615	2.045	ug/l	99
6) Chloroethane	1.70	64	5620	1.368	ug/l	92
7) Trichlorofluoromethane	1.89	101	12736	1.892	ug/l	98
8) 1,1,2-Trichloro-1,2,2-trif	2.29	101	6886	1.851	ug/l	98
9) 1,1-Dichloroethene	2.29	96	5970	1.798	ug/l	99
10) Iodomethane	2.41	142	7798	1.746	ug/l	97
11) Allyl Chloride	2.59	41	13403	1.720	ug/l	93
12) Acrylonitrile	2.95	53	3810	3.606	ug/l	92
13) Acetone	2.34	43	7754	9.053	ug/l	99
14) Carbon Disulfide	2.48	76	21568	1.792	ug/l	98
15) Methylene Chloride	2.70	84	7209	1.778	ug/l	96
16) trans-1,2-Dichloroethene	2.98	96	6792	1.824	ug/l	99
17) 1,1-Dichloroethane	3.45	63	14746	1.896	ug/l	97
18) 2-Butanone	4.30	43	13035	9.117	ug/l	93
19) Cyclohexane	4.99	56	13398	1.883	ug/l	99
20) Methylcyclohexane	6.41	83	13464	1.937	ug/l	98
21) 2,2-Dichloropropane	4.23	77	12673	1.839	ug/l	98
22) cis-1,2-Dichloroethene	4.23	96	7928	1.875	ug/l	95
23) Diethyl Ether	2.11	59	5262	1.681	ug/l	91
24) tert-Butyl Alcohol	2.88	59	5995m	20.001	ug/l	
25) Methyl tert-Butyl Ether	3.01	73	19114	1.819	ug/l	98
26) Bromochloromethane	4.55	128	3221	1.882	ug/l	97
27) Chloroform	4.68	83	14342	1.870	ug/l	97
28) 1,1,1-Trichloroethane	4.92	97	12607	1.905	ug/l	100
29) 1,1-Dichloropropene	5.13	75	10953	1.878	ug/l	100
30) Carbon Tetrachloride	5.13	117	11305	1.917	ug/l	95
31) Isopropyl Ether	3.58	45	26531	1.816	ug/l	99
32) Ethyl-t-butyl ether	4.08	59	23361	1.813	ug/l	100
33) Tert-Amyl methyl ether	5.59	73	19899	1.838	ug/l	99
34) Propionitrile	4.36	54	3404	8.864	ug/l #	92
35) Benzene	5.39	78	31307	1.908	ug/l	97
36) 1,2-Dichloroethane	5.41	62	10113	1.933	ug/l	100
37) Trichloroethene	6.19	130	7387	1.828	ug/l	99
38) 1,2-Dichloropropane	6.43	63	8478	1.832	ug/l	98
39) Methacrylonitrile	4.56	41	3685	1.948	ug/l	95
40) Methyl acrylate	4.44	55	4720	1.839	ug/l #	88
41) Tetrahydrofuran	4.67	42	4052	3.987	ug/l	91
42) 1-Chlorobutane	5.07	56	17340	1.900	ug/l	98

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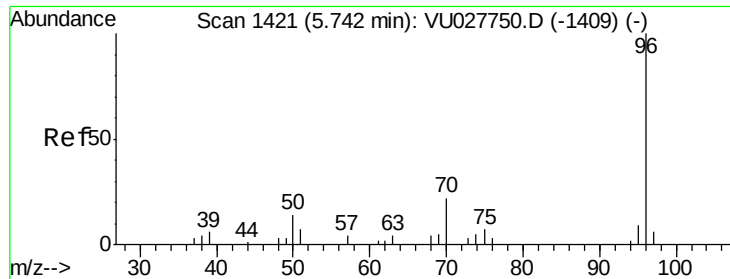
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Quant Time: Oct 23 04:34:52 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Dibromomethane	6.56	93	4085	1.981	ug/l	98
44) Bromodichloromethane	6.76	83	10617	1.917	ug/l	97
45) 4-Methyl-2-Pentanone	7.47	43	31826	9.122	ug/l	99
46) t-1,4-Dichloro-2-butene	10.52	75	4134m	3.205	ug/l	
47) Methyl methacrylate	6.63	69	8227	3.608	ug/l	91
48) Ethyl methacrylate	8.02	69	8880	1.819	ug/l	98
49) Toluene	7.64	92	18280	1.841	ug/l	100
50) t-1,3-Dichloropropene	7.88	75	10255	1.823	ug/l	93
51) cis-1,3-Dichloropropene	7.27	75	12574	1.884	ug/l	99
52) 1,1,2-Trichloroethane	8.07	97	5421	1.860	ug/l	97
53) 1,3-Dichloropropane	8.25	76	10217	1.897	ug/l	98
54) 2-Hexanone	8.37	43	23081	8.980	ug/l	98
55) Dibromochloromethane	8.48	129	6584	1.856	ug/l	99
56) 1,2-Dibromoethane	8.59	107	5244	1.906	ug/l	100
58) Tetrachloroethene	8.23	164	7155	1.957	ug/l	94
59) Chlorobenzene	9.12	112	19609	1.885	ug/l	99
60) 1,1,1,2-Tetrachloroethane	9.21	131	6923	1.835	ug/l	95
61) Pentachloroethane	11.10	117	5175	1.772	ug/l	89
62) Hexachloroethane	12.15	117	5899	1.875	ug/l	95
63) Ethyl Benzene	9.25	91	36920	1.919	ug/l	99
64) m/p-Xylenes	9.38	106	26464	3.763	ug/l	99
65) o-Xylene	9.78	106	12823	1.826	ug/l	98
66) Styrene	9.79	104	21718	1.869	ug/l	99
67) Bromoform	9.96	173	3777	1.835	ug/l #	98
69) Isopropylbenzene	10.17	105	35996	1.915	ug/l	100
70) 1,1,2,2-Tetrachloroethane	10.46	83	7373	1.949	ug/l	99
71) 1,2,3-Trichloropropane	10.50	75	5905m	2.009	ug/l	
72) Bromobenzene	10.45	156	8273	1.970	ug/l	99
73) n-propylbenzene	10.59	120	9415	1.955	ug/l	100
74) 2-Chlorotoluene	10.66	126	7742	1.801	ug/l	85
75) 1,3,5-Trimethylbenzene	10.77	105	29876	1.905	ug/l	99
76) 4-Chlorotoluene	10.77	126	7943	1.918	ug/l	99
77) tert-Butylbenzene	11.10	119	29160	1.875	ug/l	98
78) 1,2,4-Trimethylbenzene	11.15	105	31031	1.920	ug/l	97
79) sec-Butylbenzene	11.32	105	38482	1.933	ug/l	98
80) Nitrobenzene	12.87	77	1171	6.661	ug/l #	88
81) p-Isopropyltoluene	11.48	119	31731	1.956	ug/l	99
82) 1,3-Dichlorobenzene	11.42	146	15555	1.926	ug/l	98
83) 1,4-Dichlorobenzene	11.51	146	15616	1.958	ug/l	98
84) n-Butylbenzene	11.89	91	30604	1.999	ug/l	98
85) 1,2-Dichlorobenzene	11.88	146	15252	1.981	ug/l	99
86) 1,2-Dibromo-3-Chloropropan	12.66	75	1349	2.016	ug/l	96
87) 1,2,4-Trichlorobenzene	13.50	180	10994	1.948	ug/l	98
88) Hexachlorobutadiene	13.69	225	6574	1.956	ug/l	98
89) Naphthalene	13.75	128	20539	1.841	ug/l	98
90) 1,2,3-Trichlorobenzene	13.99	180	10591	2.031	ug/l	99

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



#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.75 min Scan# 1422

Delta R.T. 0.00 min

Lab File: VU027748.D

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Instrument :

MSVOA_U

ClientSampleId :

VSTDIC002

Tot Ion: 96 Resp: 13523

Ion Ratio Lower Upper

96 100

70 22.4 17.7 26.5

95 8.3 7.0 10.6

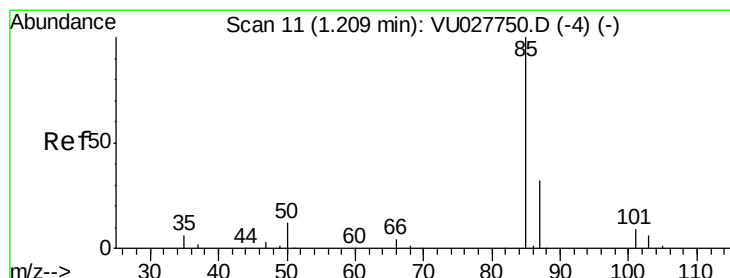
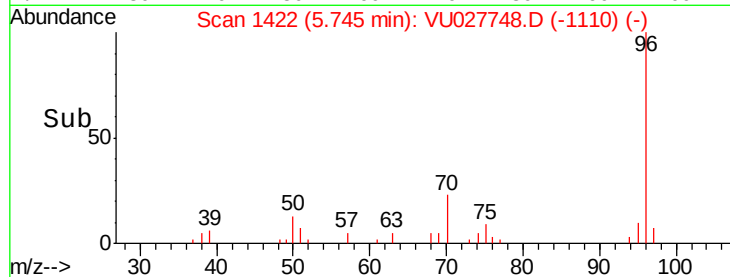
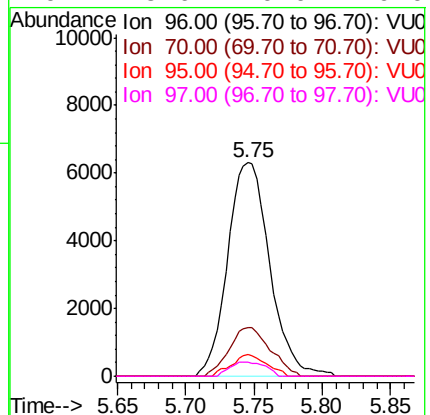
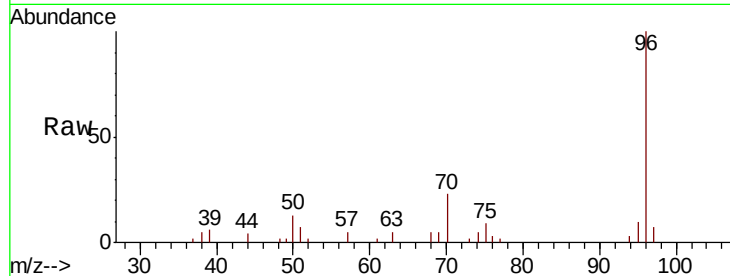
97 5.6 0.0 0.0#

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#2

Dichlorodifluoromethane

Concen: 1.888 ug/l

RT: 1.21 min Scan# 11

Delta R.T. 0.00 min

Lab File: VU027748.D

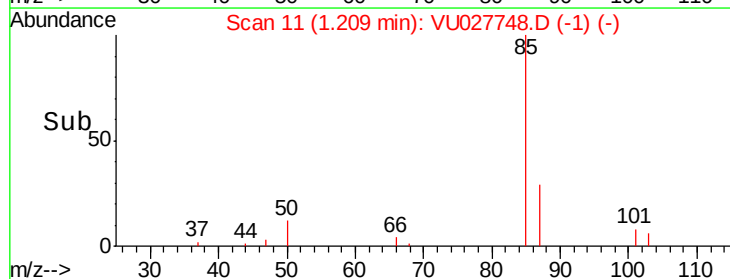
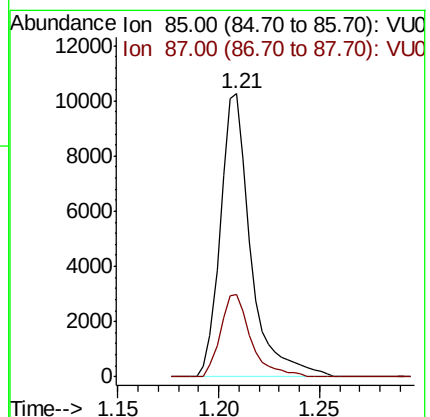
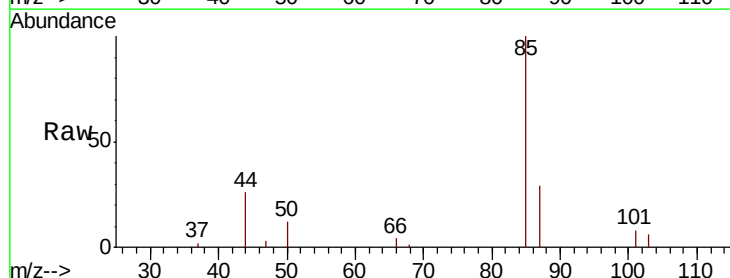
Acq: 22 Oct 2018 18:45

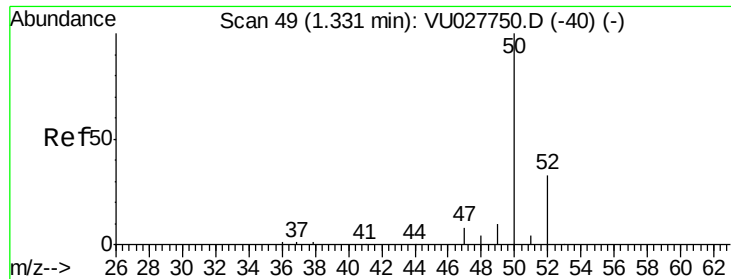
Tgt Ion: 85 Resp: 10771

Ion Ratio Lower Upper

85 100

87 29.3 15.9 47.6





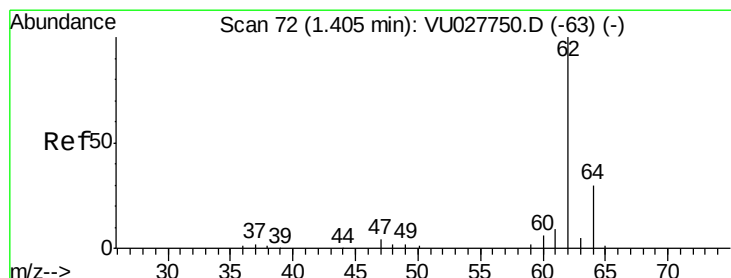
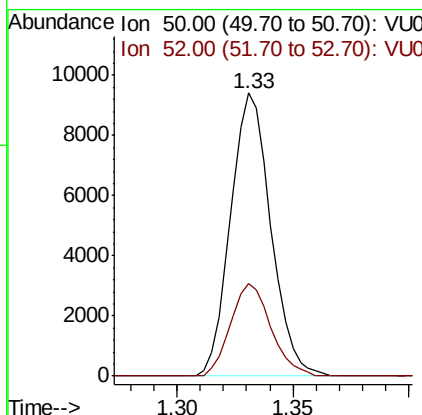
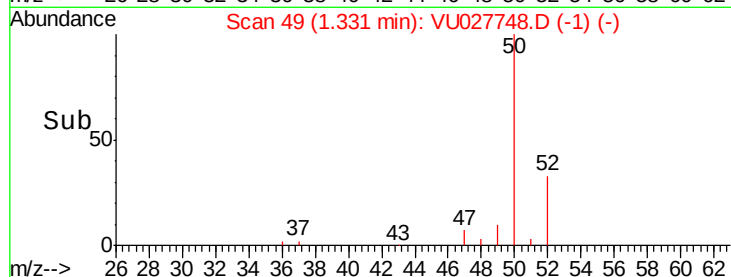
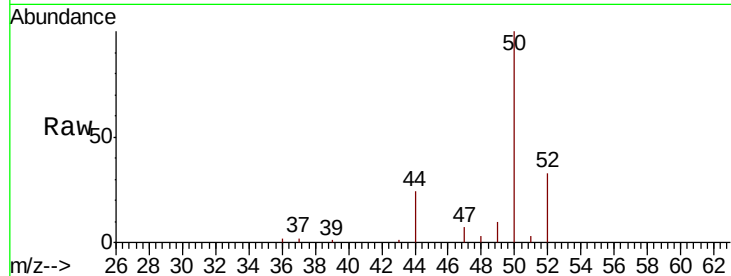
#3
 Chloromethane
 Concen: 1.850 ug/l
 RT: 1.33 min Scan# 49
 Delta R.T. 0.00 min
 Lab File: VU027748.D
 Acq: 22 Oct 2018 18:45

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC002

Tot Ion: 50 Resp: 11337
 Ion Ratio Lower Upper
 50 100
 52 32.7 26.6 40.0

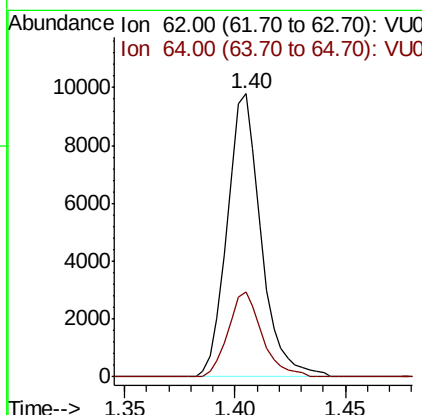
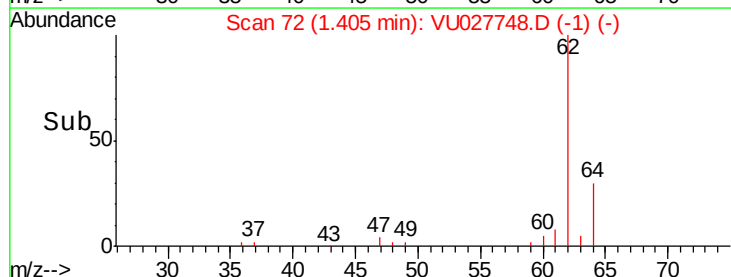
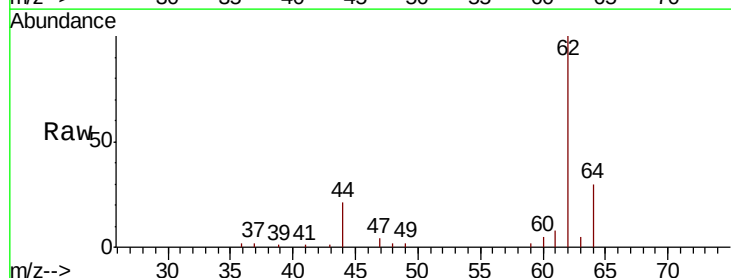
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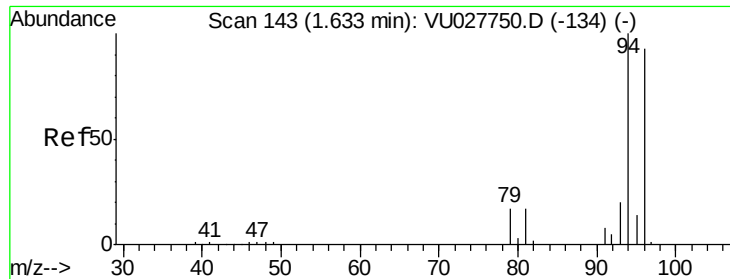
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#4
 Vinyl Chloride
 Concen: 1.828 ug/l
 RT: 1.40 min Scan# 72
 Delta R.T. 0.00 min
 Lab File: VU027748.D
 Acq: 22 Oct 2018 18:45

Tgt Ion: 62 Resp: 10468
 Ion Ratio Lower Upper
 62 100
 64 30.1 24.3 36.5





#5

Bromomethane

Concen: 2.045 ug/l

RT: 1.63 min Scan# 143

Delta R.T. 0.00 min

Lab File: VU027748.D

Acq: 22 Oct 2018 18:45

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC002

Tot Ion: 94 Resp: 5615

Ion Ratio Lower Upper

94 100

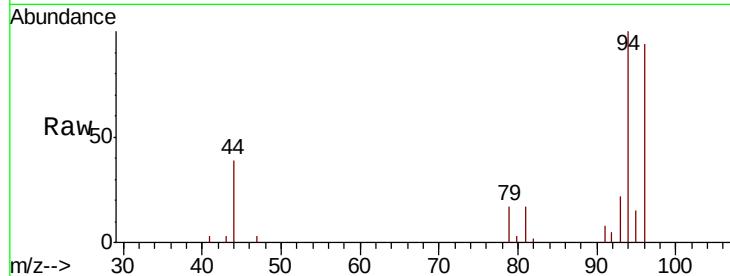
96 93.9 74.2 111.4

Manual Integrations

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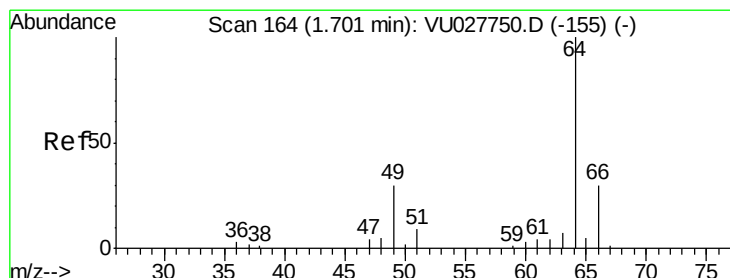
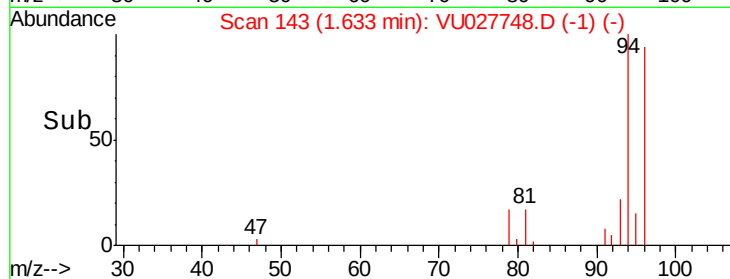
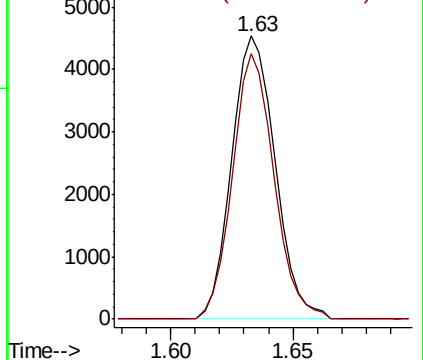
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Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0



#6

Chloroethane

Concen: 1.368 ug/l

RT: 1.70 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU027748.D

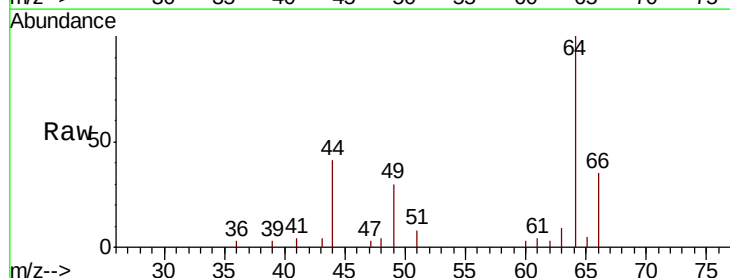
Acq: 22 Oct 2018 18:45

Tgt Ion: 64 Resp: 5620

Ion Ratio Lower Upper

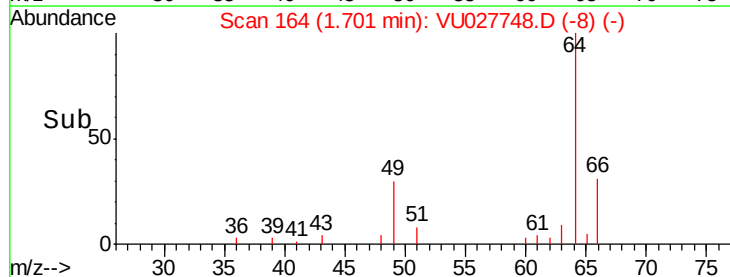
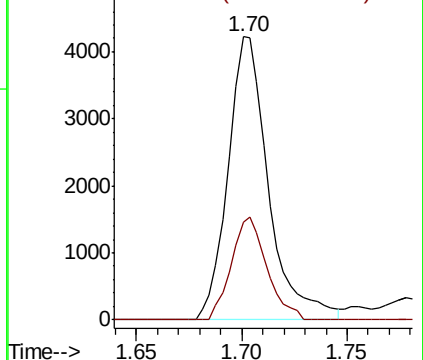
64 100

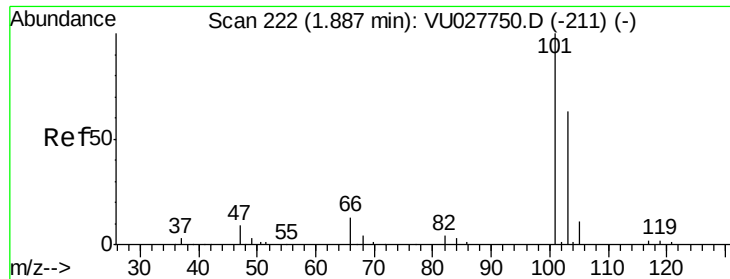
66 34.6 24.3 36.5



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0





#7

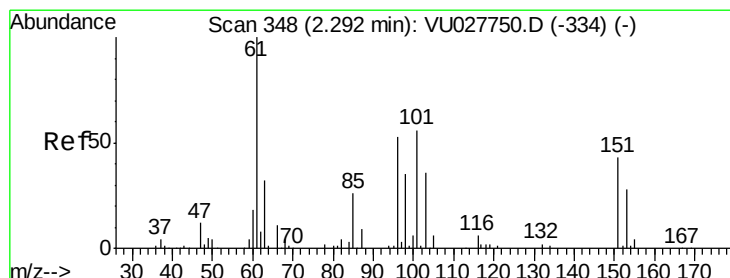
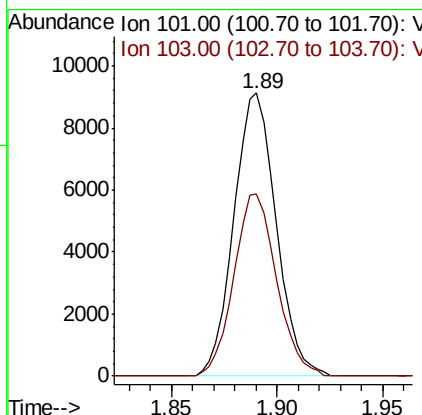
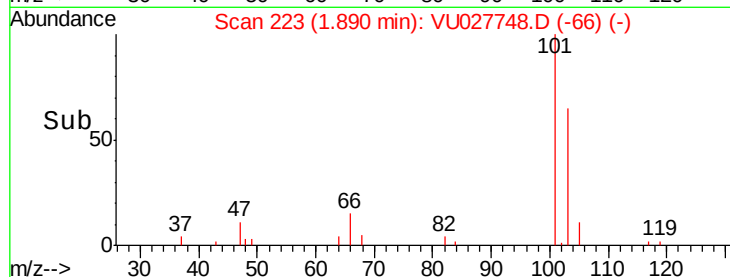
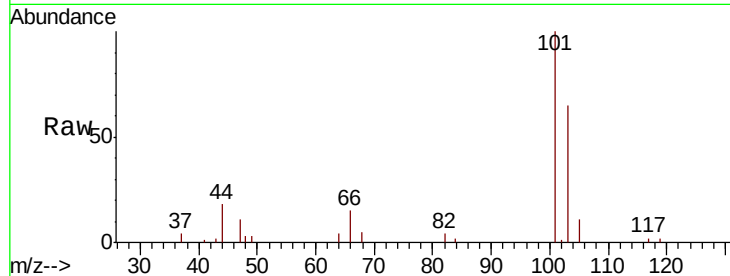
Trichlorofluoromethane
Concen: 1.892 ug/l
RT: 1.89 min Scan# 223
Delta R.T. 0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

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Tot Ion	Ratio	Lower	Upper
101	100		
103	64.5	50.2	75.2

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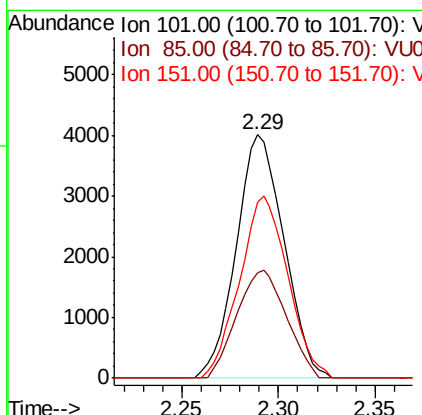
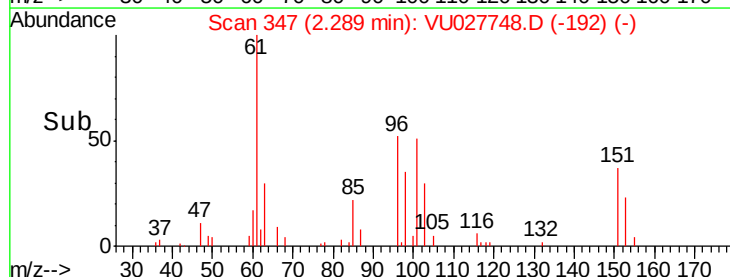
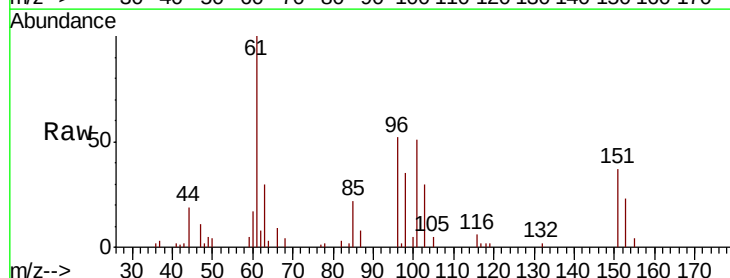
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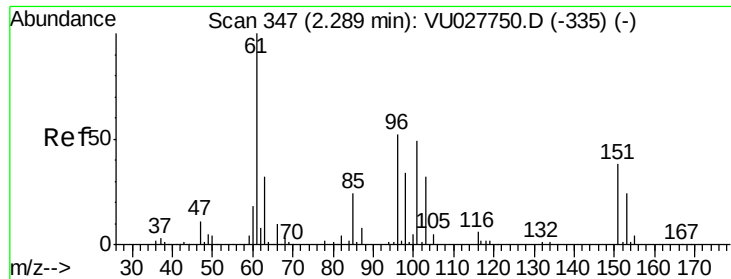


#8

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 1.851 ug/l
RT: 2.29 min Scan# 347
Delta R.T. -0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Tgt Ion	Ratio	Lower	Upper
101	100		
85	46.0	38.2	57.2
151	75.6	61.8	92.8





#9

1,1-Dichloroethene

Concen: 1.798 ug/l

RT: 2.29 min Scan# 347

Delta R.T. 0.00 min

Lab File: VU027748.D

Acq: 22 Oct 2018 18:45

Instrument :

MSVOA_U

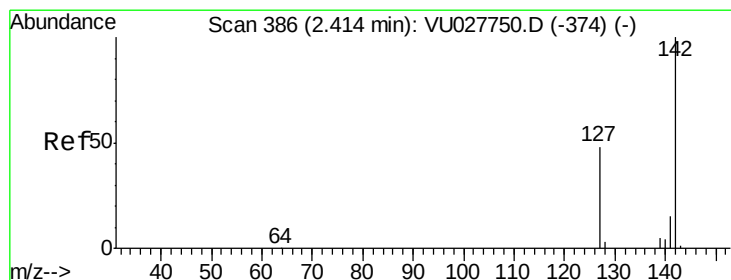
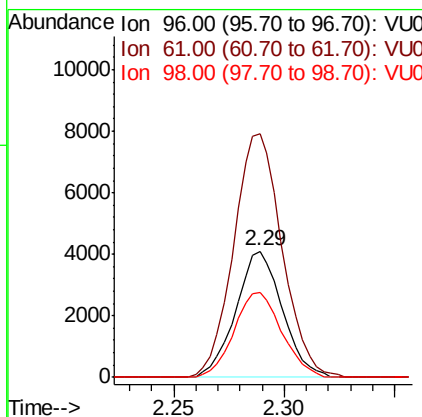
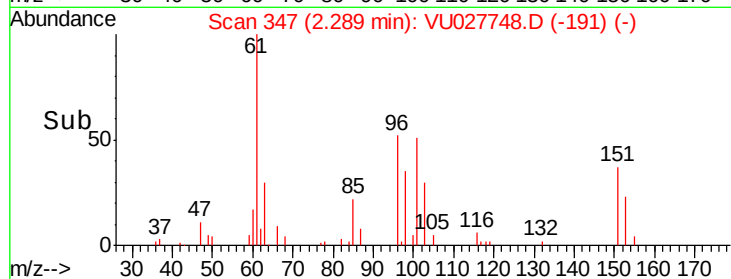
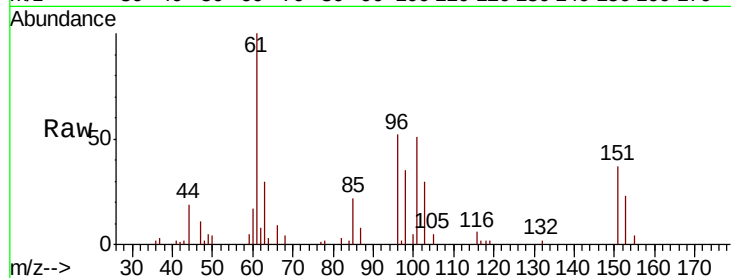
ClientSampleId :

VSTDIC002

Tot Ion:	96	Resp:	5970
Ion Ratio	Lower	Upper	
96	100		
61	193.0	0.0	581.4
98	67.4	0.0	131.2

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#10

Iodomethane

Concen: 1.746 ug/l

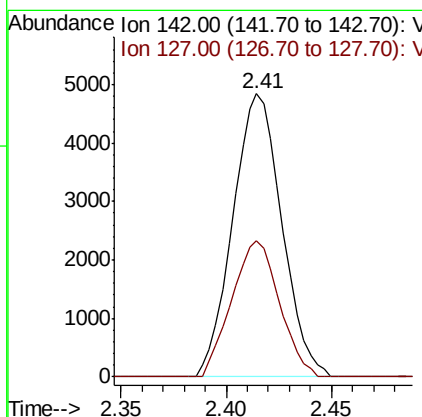
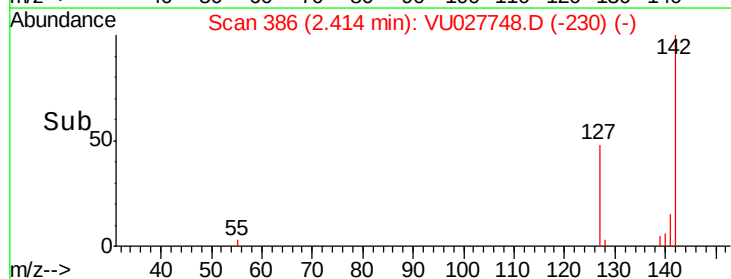
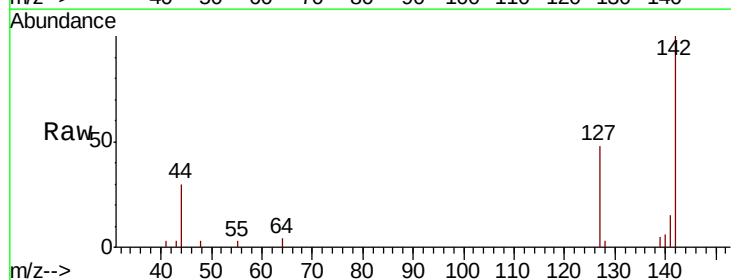
RT: 2.41 min Scan# 386

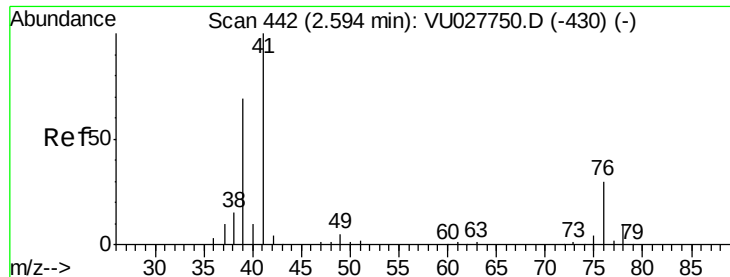
Delta R.T. 0.00 min

Lab File: VU027748.D

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Tgt Ion:	142	Resp:	7798
Ion Ratio	Lower	Upper	
142	100		
127	46.8	39.2	58.8





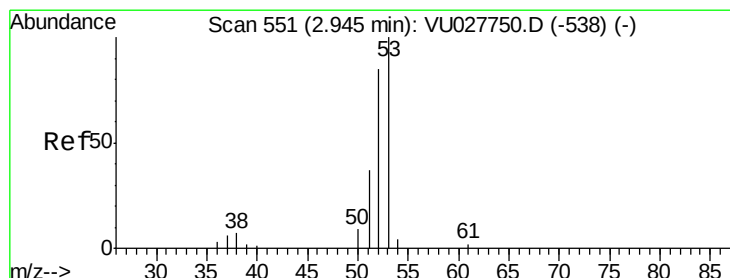
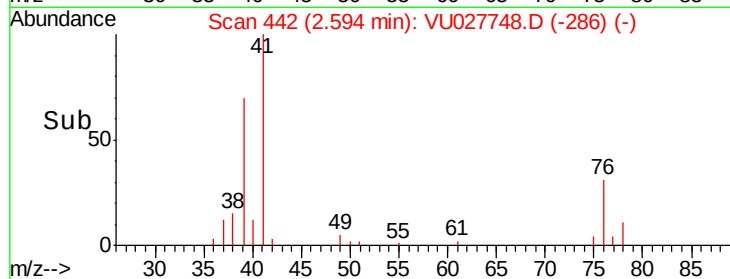
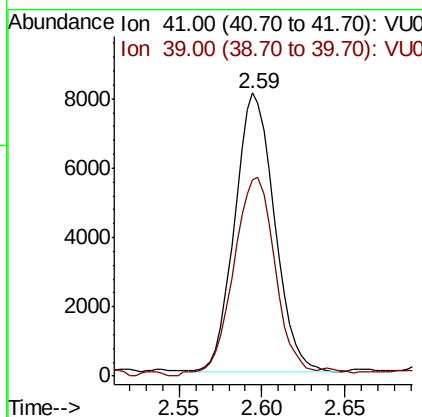
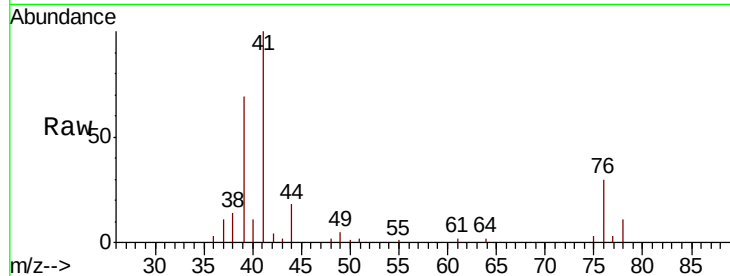
#11
Allvl Chloride
Concen: 1.720 ug/l
RT: 2.59 min Scan# 442
Delta R.T. 0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC002

Tot Ion: 41 Resp: 13403
Ion Ratio Lower Upper
41 100
39 74.9 55.4 83.0

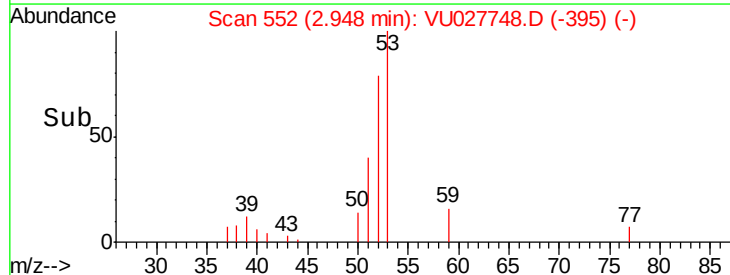
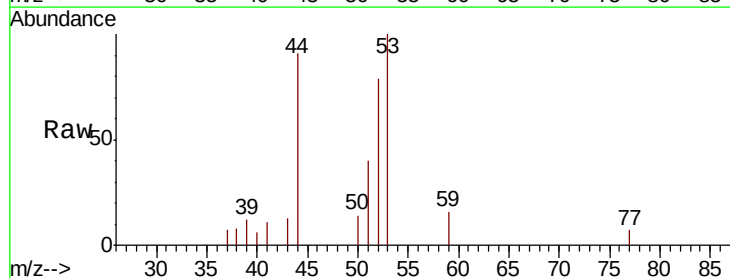
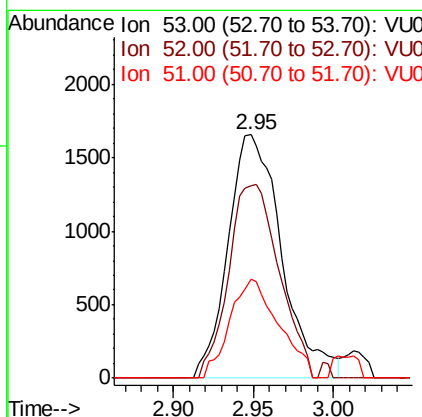
Manual Integrations
APPROVED

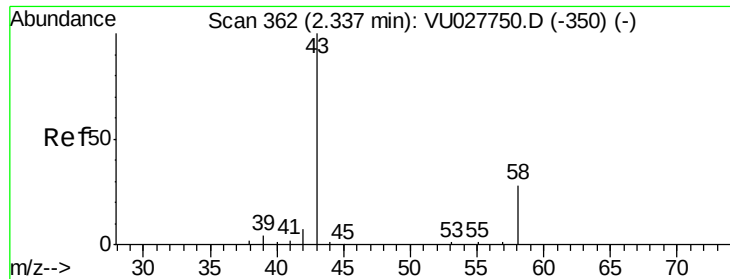
sam
10/24/2018 2:20:10 PM



#12
Acrylonitrile
Concen: 3.606 ug/l
RT: 2.95 min Scan# 552
Delta R.T. 0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Tgt Ion: 53 Resp: 3810
Ion Ratio Lower Upper
53 100
52 74.7 67.9 101.9
51 36.8 30.0 45.0





#13

Acetone

Concen: 9.053 ug/l

RT: 2.34 min Scan# 364

Delta R.T. 0.01 min

Lab File: VU027748.D

Acq: 22 Oct 2018 18:45

Tot Ion: 43 Resp: 7754

Ion Ratio Lower Upper

43 100

58 28.7 22.3 33.5

Instrument :

MSVOA_U

ClientSampleId :

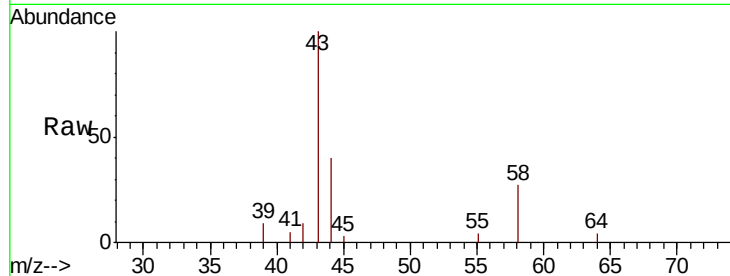
VSTDIC002

Manual Integrations

APPROVED

sam

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Abundance Ion 43.00 (42.70 to 43.70): VU027748.D (-206) (-)

Ion 58.00 (57.70 to 58.70): VU027748.D (-206) (-)

2.34

4000

3000

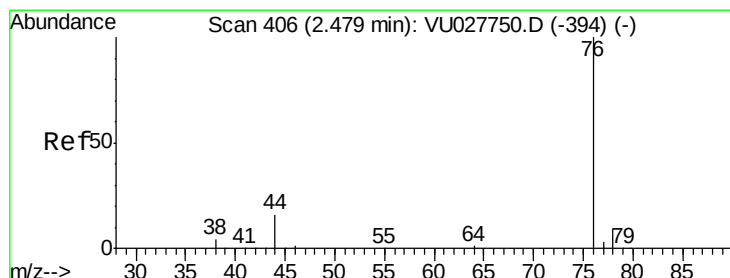
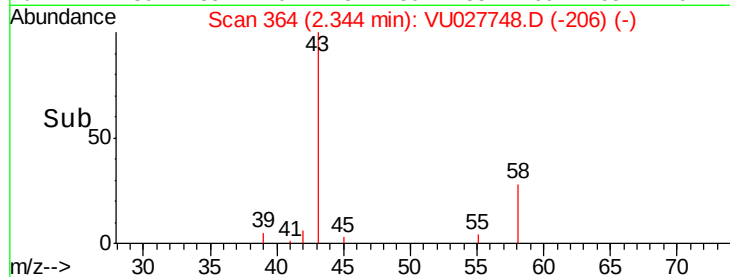
2000

1000

0

Time-->

2.25 2.30 2.35 2.40 2.45



#14

Carbon Disulfide

Concen: 1.792 ug/l

RT: 2.48 min Scan# 406

Delta R.T. 0.00 min

Lab File: VU027748.D

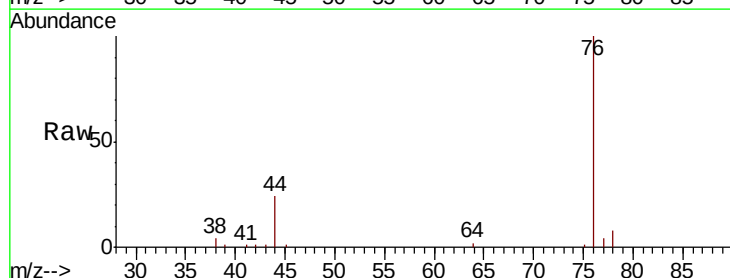
Acq: 22 Oct 2018 18:45

Tgt Ion: 76 Resp: 21568

Ion Ratio Lower Upper

76 100

78 8.2 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU027748.D (-250) (-)

Ion 78.00 (77.70 to 78.70): VU027748.D (-250) (-)

2.48

15000

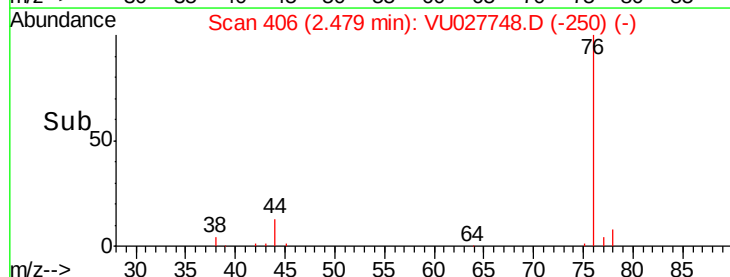
10000

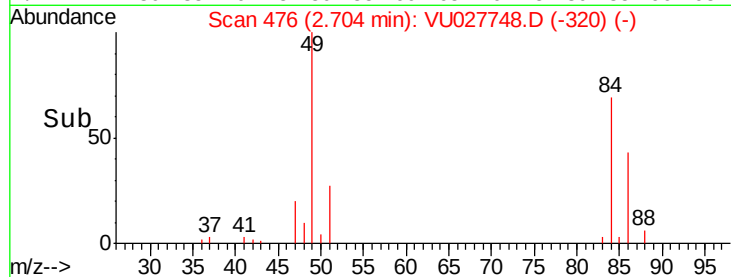
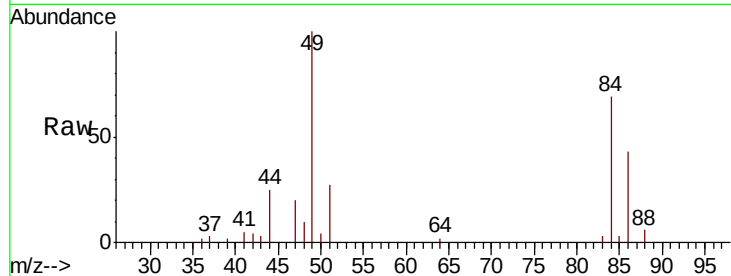
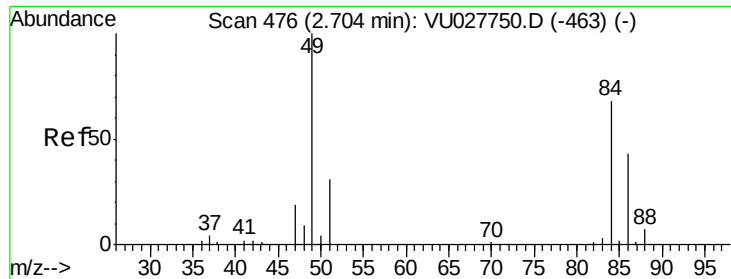
5000

0

Time-->

2.40 2.45 2.50 2.55





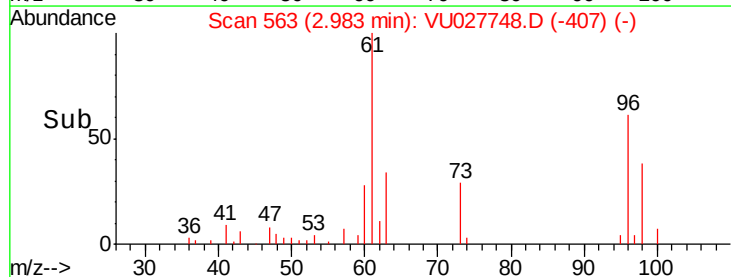
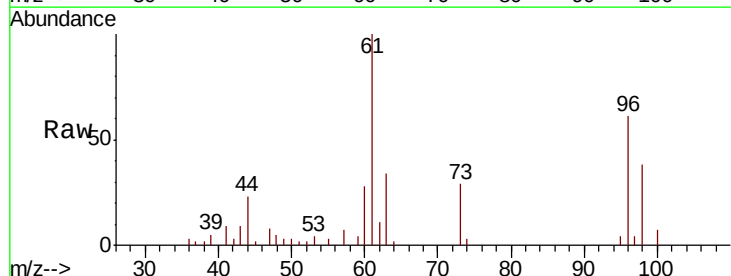
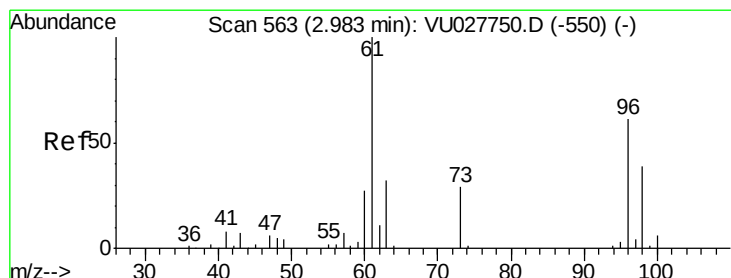
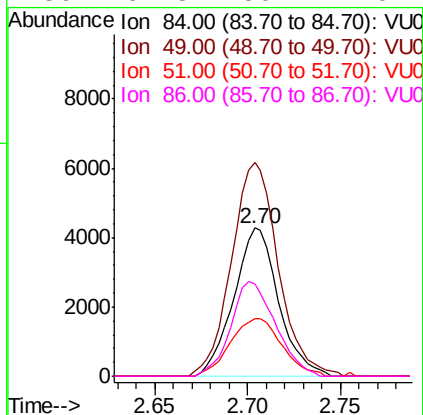
#15
Methvlene Chloride
Concen: 1.778 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Tot Ion:	84	Resp:	7209
Ion	Ratio	Lower	Upper
84	100		
49	144.0	118.5	177.7
51	38.8	0.0	91.0
86	61.8	50.7	76.1

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC002

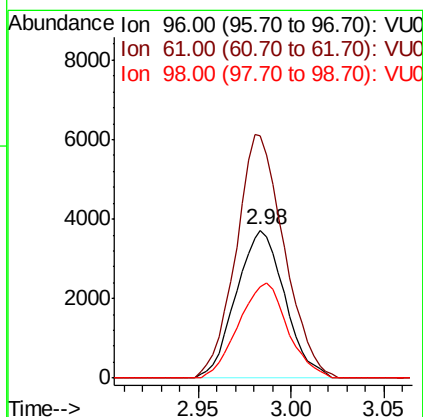
Manual Integrations
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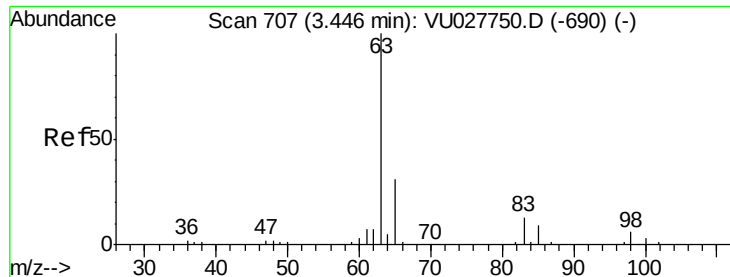
sam
10/24/2018 2:20:10 PM



#16
trans-1,2-Dichloroethene
Concen: 1.824 ug/l
RT: 2.98 min Scan# 563
Delta R.T. 0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Tgt Ion:	96	Resp:	6792
Ion	Ratio	Lower	Upper
96	100		
61	164.1	131.8	197.6
98	61.9	51.2	76.8





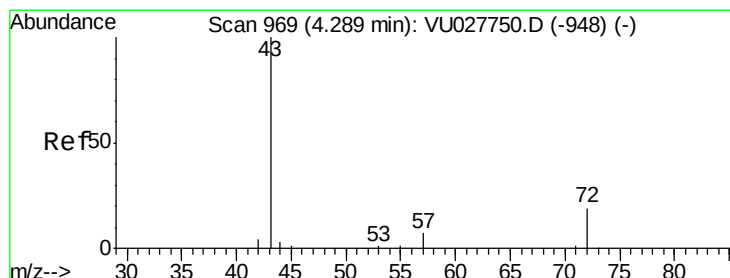
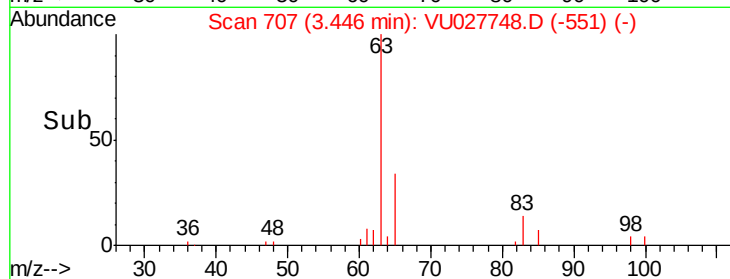
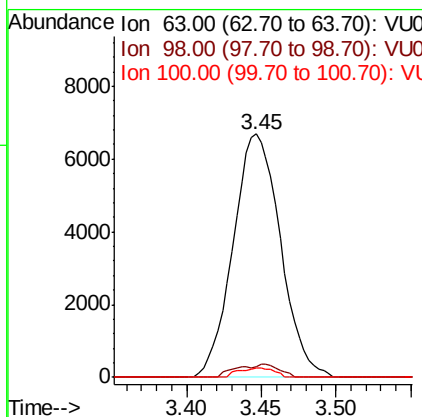
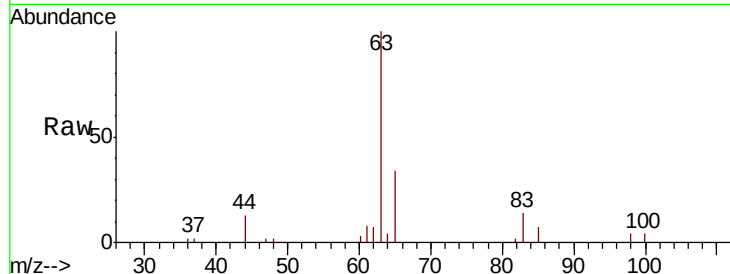
#17
 1,1-Dichloroethane
 Concen: 1.896 ug/l
 RT: 3.45 min Scan# 707
 Delta R.T. 0.00 min
 Lab File: VU027748.D
 Acq: 22 Oct 2018 18:45

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC002

Tot Ion:	63	Resp:	14746
Ion	Ratio	Lower	Upper
63	100		
98	4.5	2.8	8.4
100	3.7	1.5	4.5

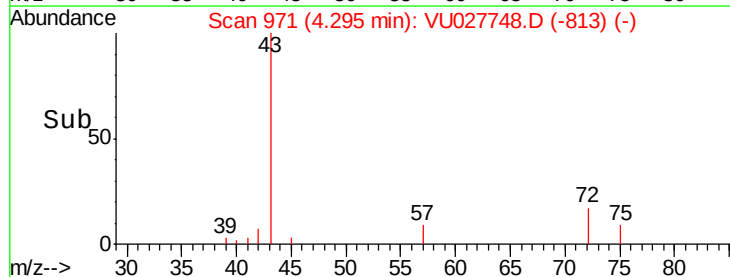
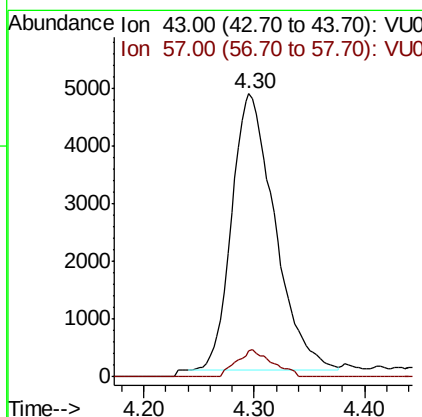
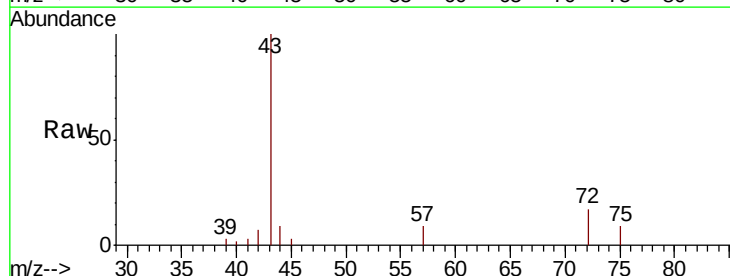
Manual Integrations
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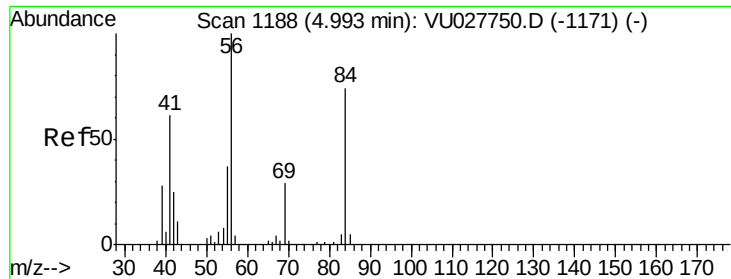
sam
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#18
 2-Butanone
 Concen: 9.117 ug/l
 RT: 4.30 min Scan# 971
 Delta R.T. 0.01 min
 Lab File: VU027748.D
 Acq: 22 Oct 2018 18:45

Tgt Ion:	43	Resp:	13035
Ion	Ratio	Lower	Upper
43	100		
57	9.6	0.0	14.4





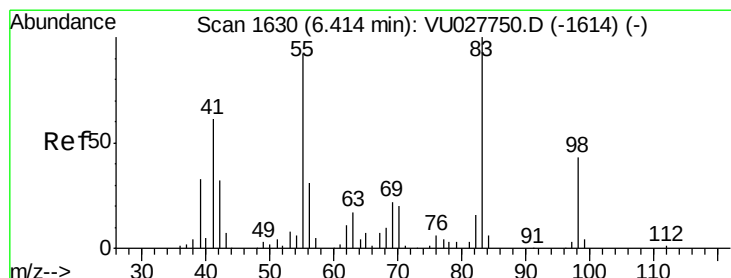
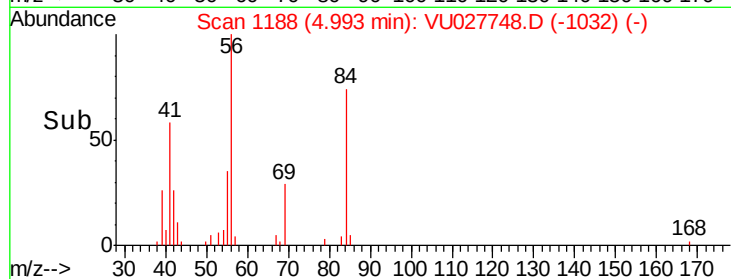
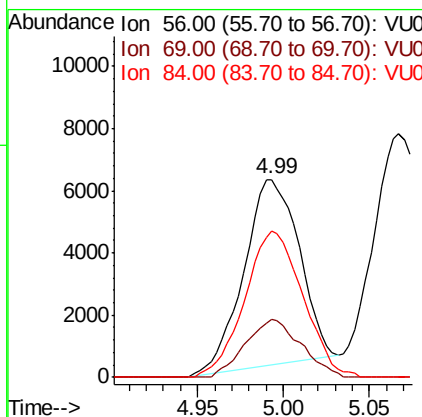
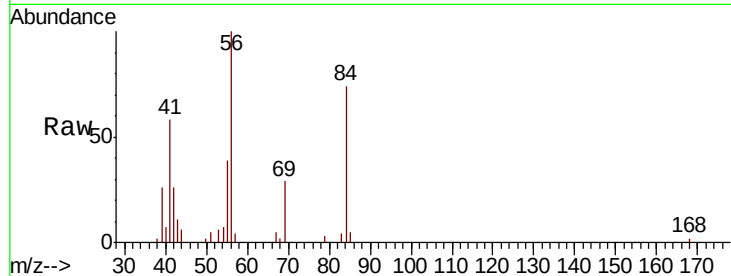
#19
Cyclohexane
Concen: 1.883 ug/l
RT: 4.99 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
56	100		
69	31.3	25.9	38.9
84	82.3	65.9	98.9

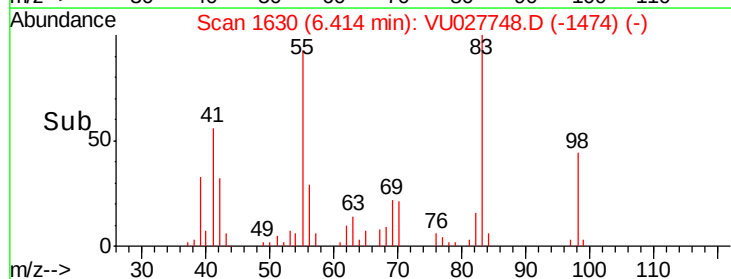
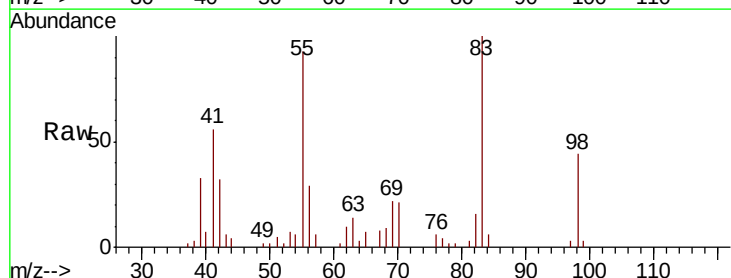
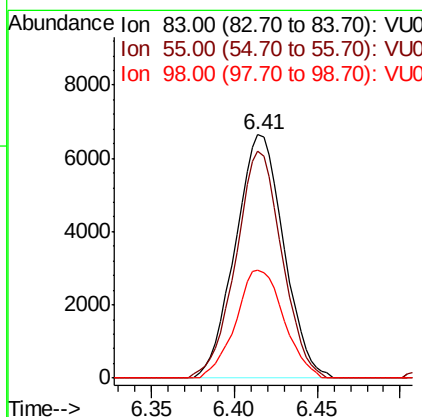
Manual Integrations
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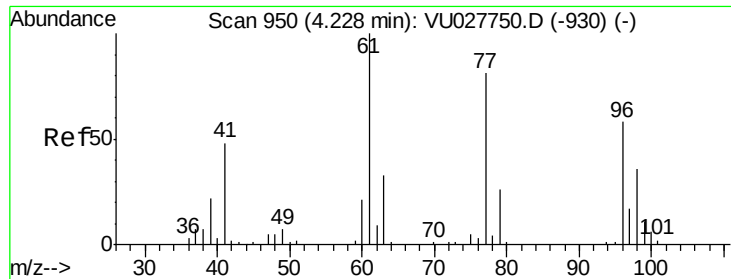
sam
10/24/2018 2:20:10 PM



#20
Methylcyclohexane
Concen: 1.937 ug/l
RT: 6.41 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Tgt Ion	Ratio	Lower	Upper
83	100		
55	88.8	72.6	108.8
98	44.1	35.0	52.4





#21

2,2-Dichloropropane

Concen: 1.839 ug/l

RT: 4.23 min Scan# 951

Delta R.T. 0.00 min

Lab File: VU027748.D

Acq: 22 Oct 2018 18:45

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC002

Tot Ion: 77 Resp: 12673

Ion Ratio Lower Upper

77 100

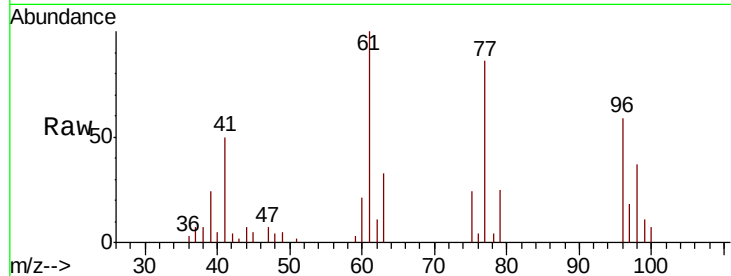
97 20.2 16.9 25.3

Manual Integrations

APPROVED

sam

10/24/2018 2:20:10 PM



Abundance Ion 77.00 (76.70 to 77.70): VU027750.D (-930) (-)

Ion 97.00 (96.70 to 97.70): VU027750.D (-930) (-)

4.23

5000

4000

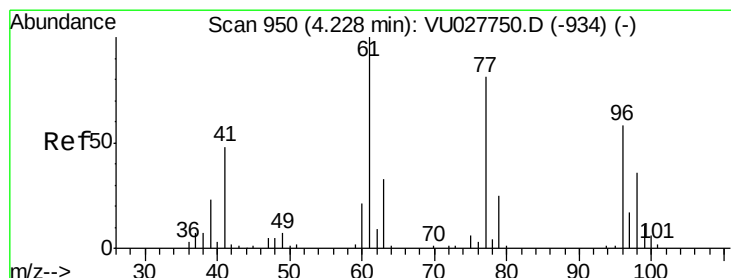
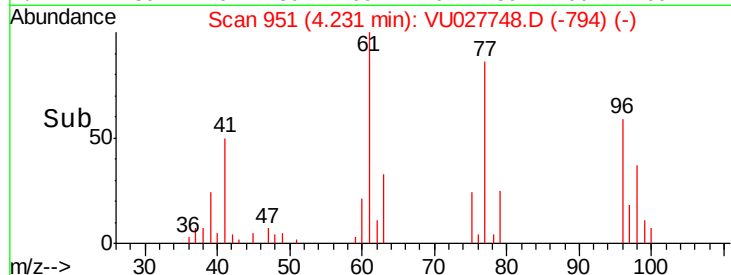
3000

2000

1000

0

Time-->



#22

cis-1,2-Dichloroethene

Concen: 1.875 ug/l

RT: 4.23 min Scan# 952

Delta R.T. 0.01 min

Lab File: VU027748.D

Acq: 22 Oct 2018 18:45

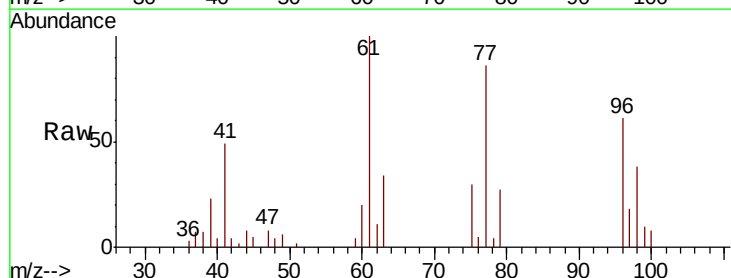
Tgt Ion: 96 Resp: 7928

Ion Ratio Lower Upper

96 100

61 170.3 0.0 444.0

98 61.1 31.9 95.5



Abundance Ion 96.00 (95.70 to 96.70): VU027748.D (-794) (-)

Ion 61.00 (60.70 to 61.70): VU027748.D (-794) (-)

Ion 98.00 (97.70 to 98.70): VU027748.D (-794) (-)

4.23

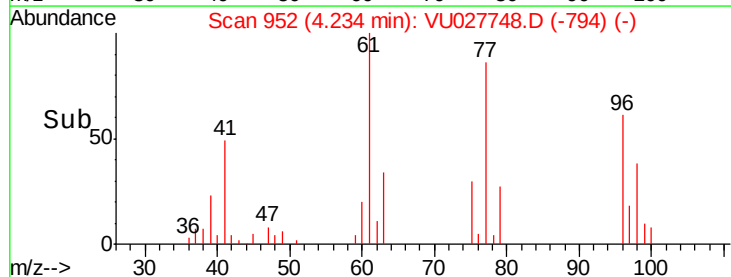
6000

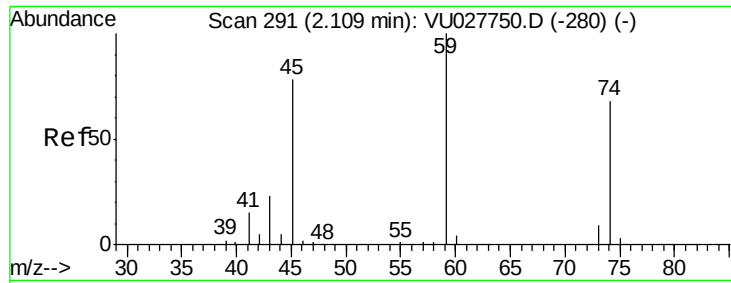
4000

2000

0

Time-->





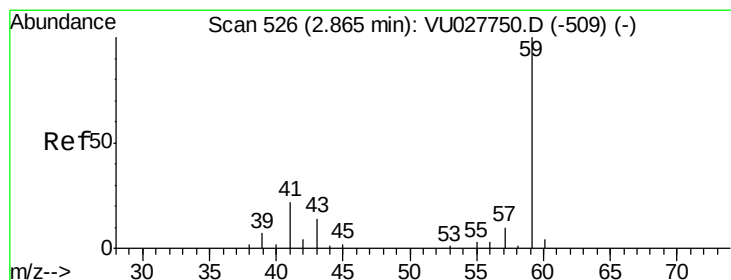
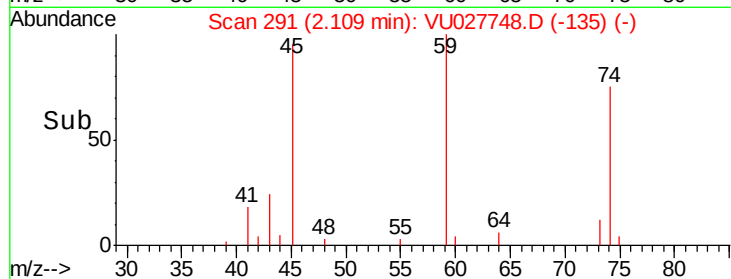
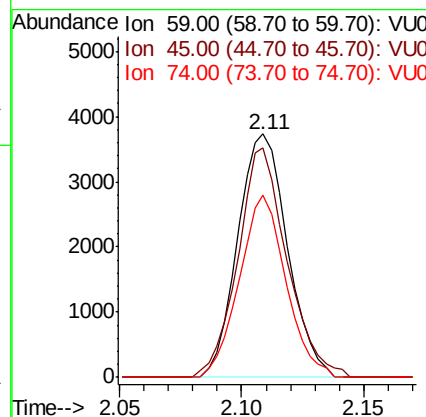
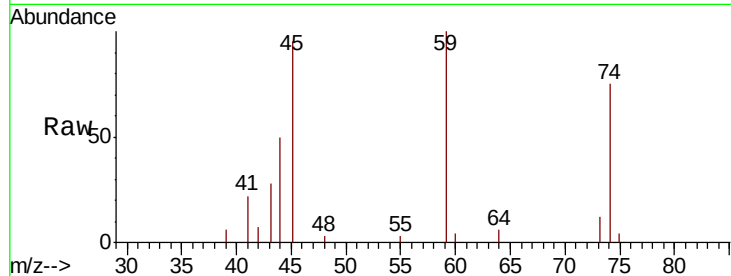
#23
Diethyl Ether
Concen: 1.681 ug/l
RT: 2.11 min Scan# 291
Delta R.T. 0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
59	100		
45	93.3	64.6	96.8
74	70.0	54.8	82.2

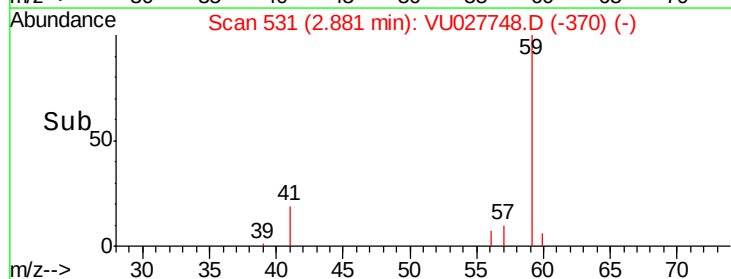
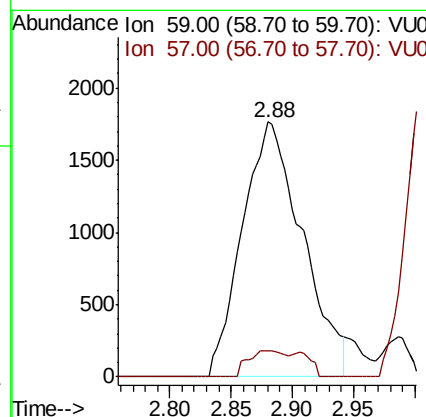
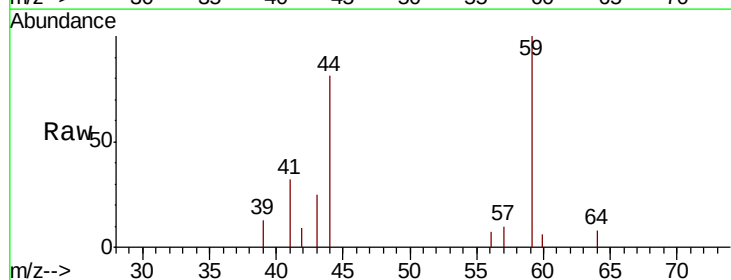
Manual Integrations
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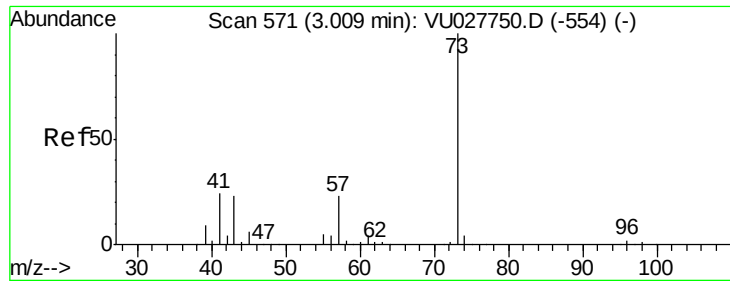
sam
10/24/2018 2:20:10 PM



#24
tert-Butyl Alcohol
Concen: 20.001 ug/l m
RT: 2.88 min Scan# 531
Delta R.T. 0.02 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Tgt Ion	Ratio	Lower	Upper
59	100		
57	6.4	4.4	6.6





#25

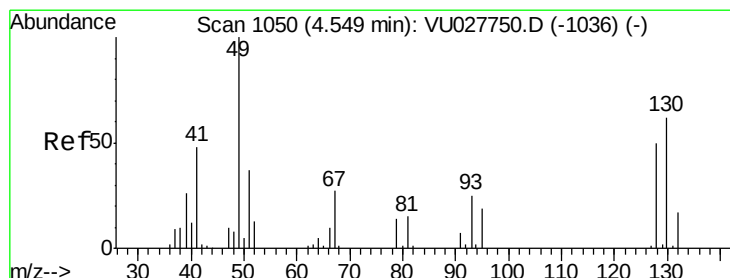
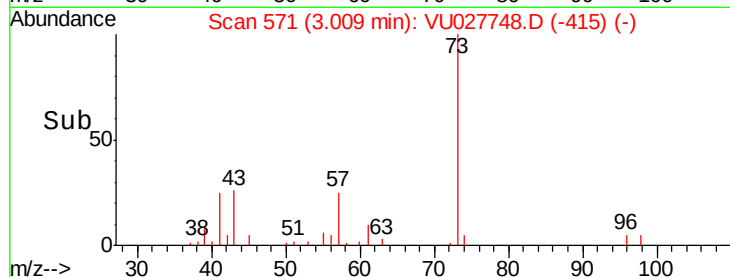
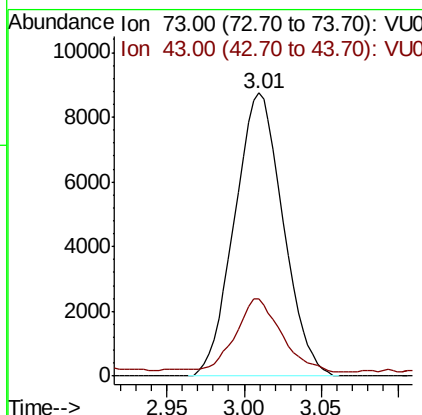
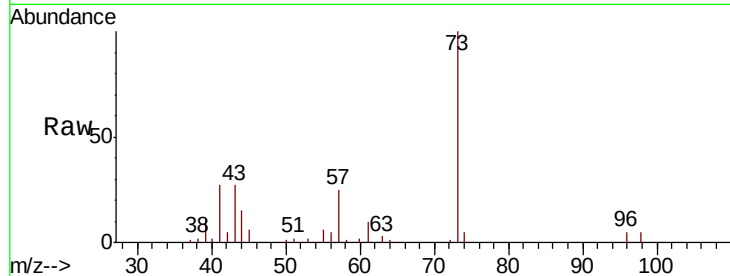
Methyl tert-Butyl Ether
 Concen: 1.819 ug/l
 RT: 3.01 min Scan# 571
 Delta R.T. 0.00 min
 Lab File: VU027748.D
 Acq: 22 Oct 2018 18:45

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC002

Tot Ion	73	Resp	19114
Ion Ratio	Lower	Upper	
73	100		
43	24.0	18.6	27.8

Manual Integrations
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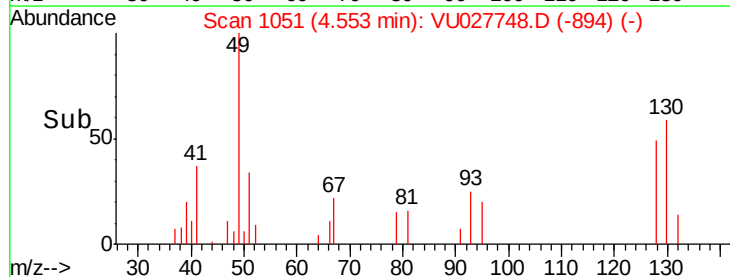
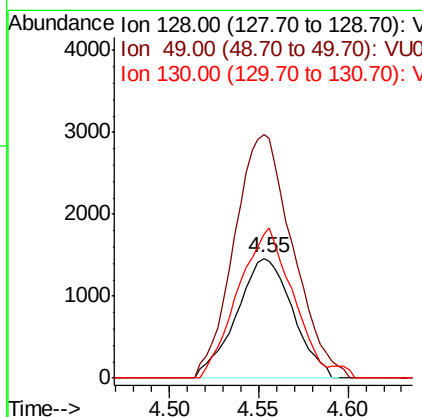
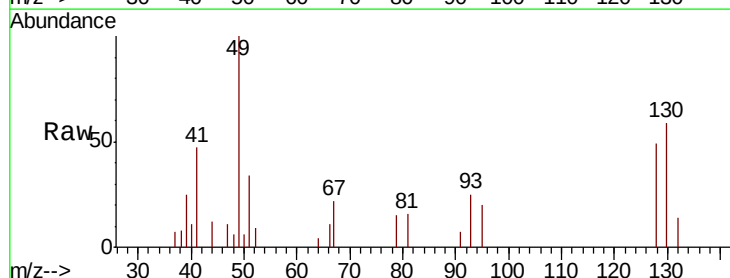
sam
 10/24/2018 2:20:10 PM

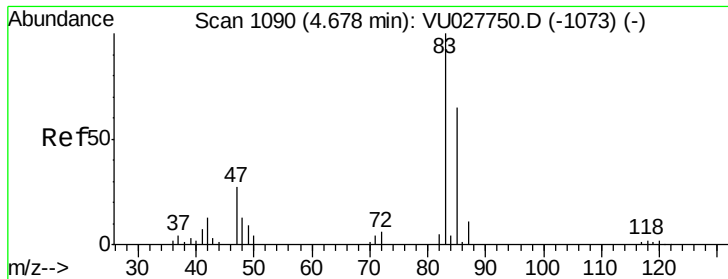


#26

Bromochloromethane
 Concen: 1.882 ug/l
 RT: 4.55 min Scan# 1051
 Delta R.T. 0.00 min
 Lab File: VU027748.D
 Acq: 22 Oct 2018 18:45

Tgt Ion	128	Resp	3221
Ion Ratio	Lower	Upper	
128	100		
49	211.1	0.0	427.6
130	124.7	103.4	155.0





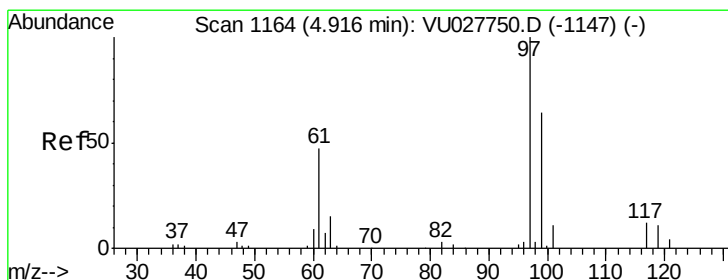
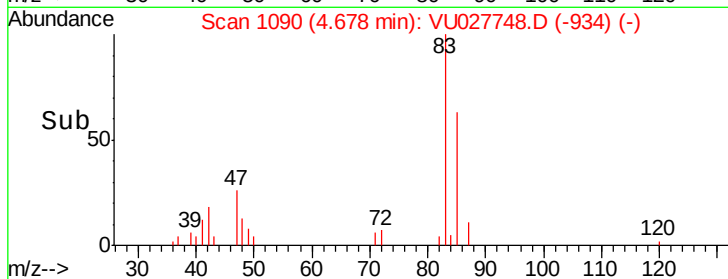
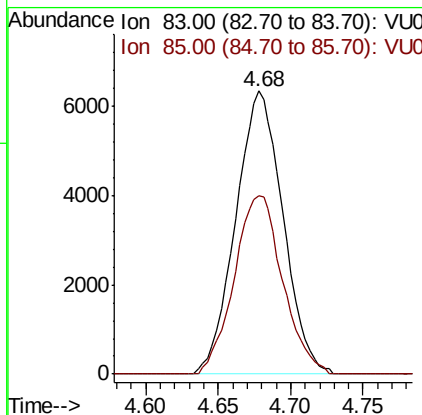
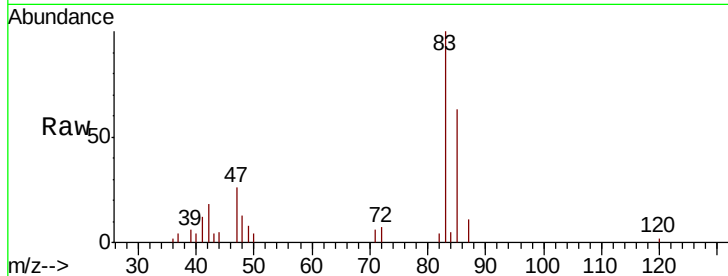
#27
Chloroform
Concen: 1.870 ug/l
RT: 4.68 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC002

Tot Ion	83	Resp	14342
Ion Ratio	100	Lower	Upper
83	100		
85	63.0	0.0	130.2

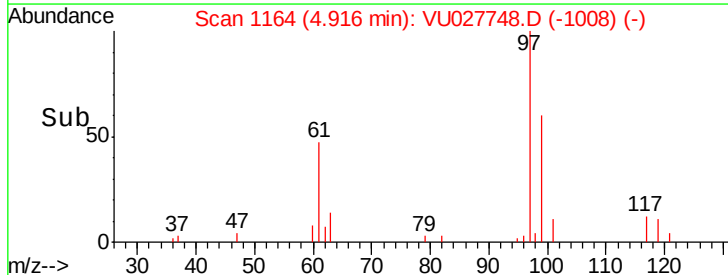
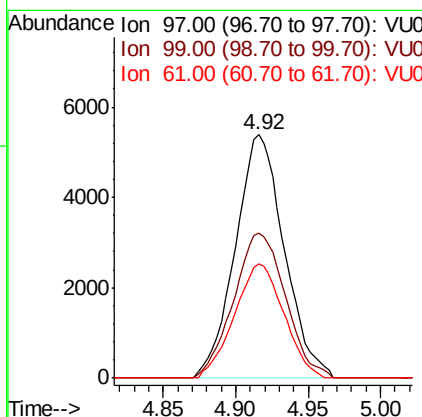
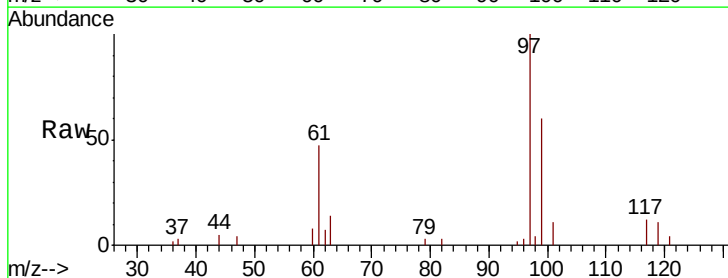
Manual Integrations
APPROVED

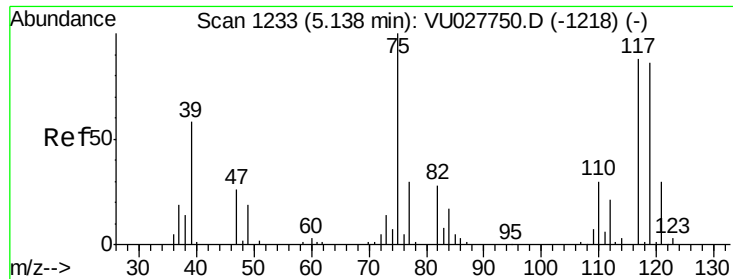
sam
10/24/2018 2:20:10 PM



#28
1,1,1-Trichloroethane
Concen: 1.905 ug/l
RT: 4.92 min Scan# 1164
Delta R.T. 0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Tgt Ion	97	Resp	12607
Ion Ratio	100	Lower	Upper
97	100		
99	63.3	31.8	95.4
61	47.5	23.6	70.8





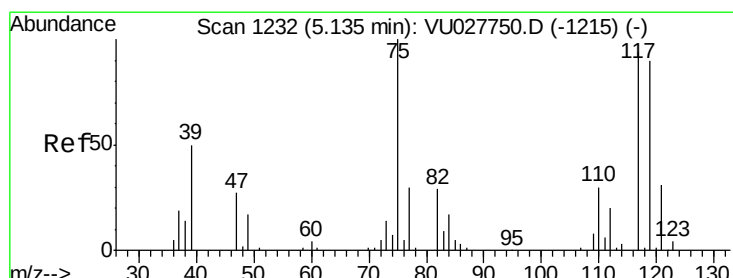
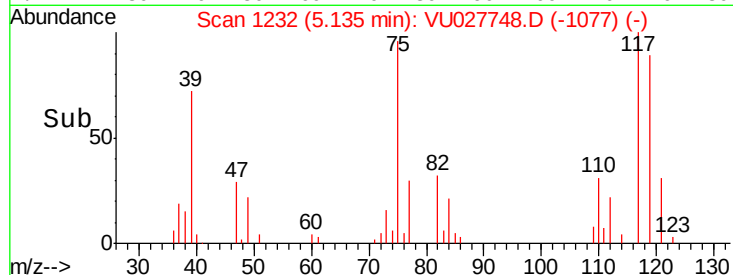
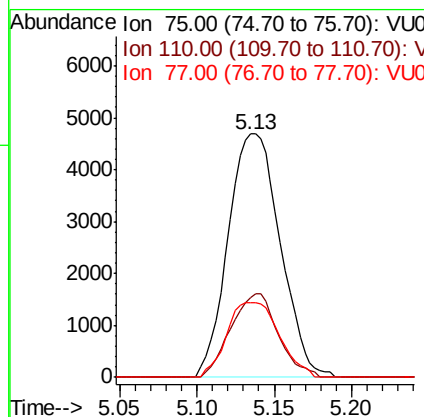
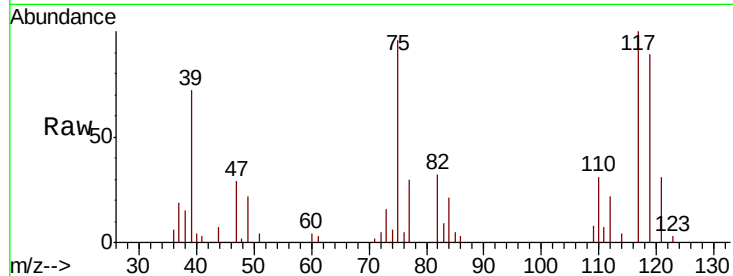
#29
1,1-Dichloropropene
Concen: 1.878 ug/l
RT: 5.13 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
75	100		
110	31.2	15.6	46.8
77	30.9	24.5	36.7

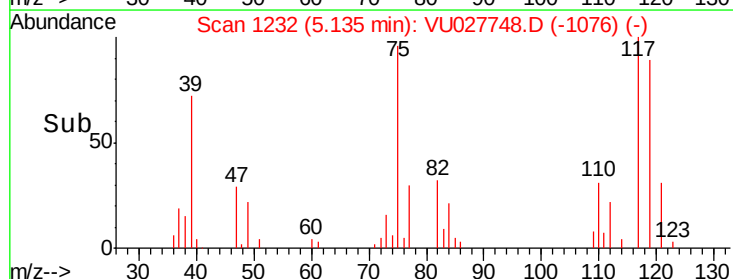
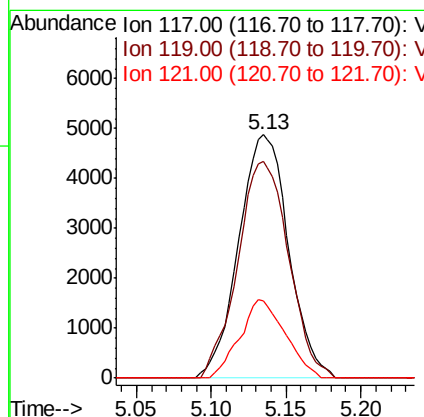
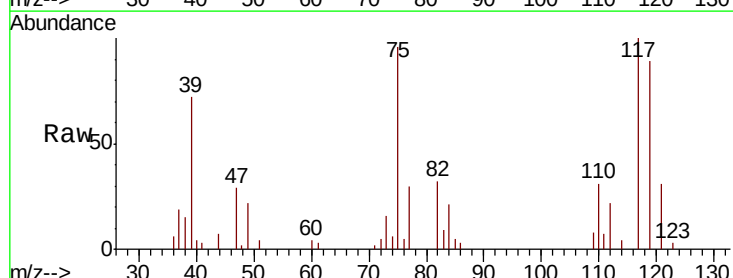
Manual Integrations
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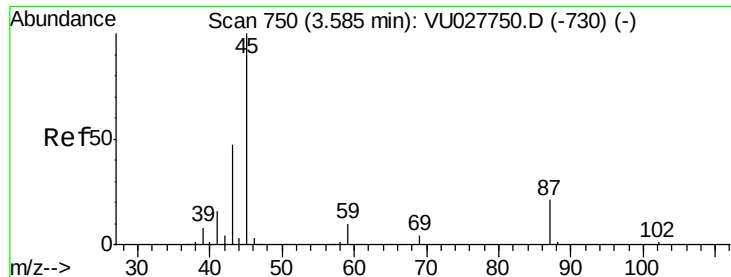
sam
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#30
Carbon Tetrachloride
Concen: 1.917 ug/l
RT: 5.13 min Scan# 1232
Delta R.T. 0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Tgt Ion	Ratio	Lower	Upper
117	100		
119	89.2	76.2	114.4
121	31.5	26.4	39.6





#31

Isopropyl Ether

Concen: 1.816 ug/l

RT: 3.58 min Scan# 750

Delta R.T. 0.00 min

Lab File: VU027748.D

Acq: 22 Oct 2018 18:45

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC002

Tot Ion: 45 Resp: 26531

Ion Ratio Lower Upper

45 100

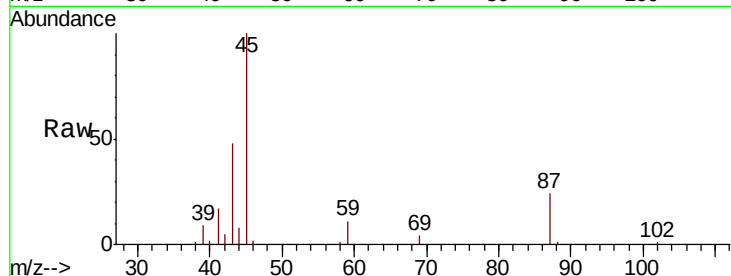
43 49.4 24.5 73.5

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Abundance Ion 45.00 (44.70 to 45.70): VU027750.D (-730) (-)

Ion 43.00 (42.70 to 43.70): VU027750.D (-730) (-)

12000

10000

8000

6000

4000

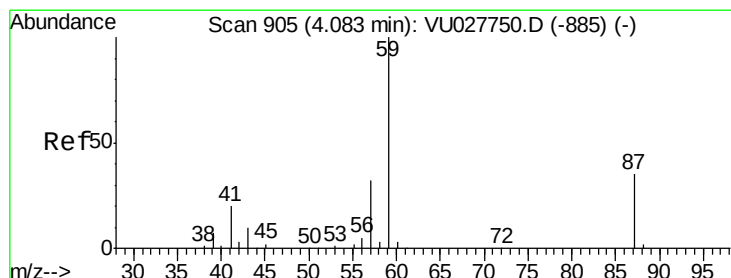
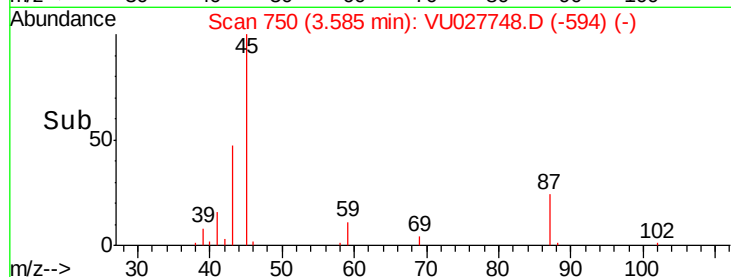
2000

0

Time-->

3.50 3.55 3.60 3.65

3.58



#32

Ethyl-t-butyl ether

Concen: 1.813 ug/l

RT: 4.08 min Scan# 905

Delta R.T. 0.00 min

Lab File: VU027748.D

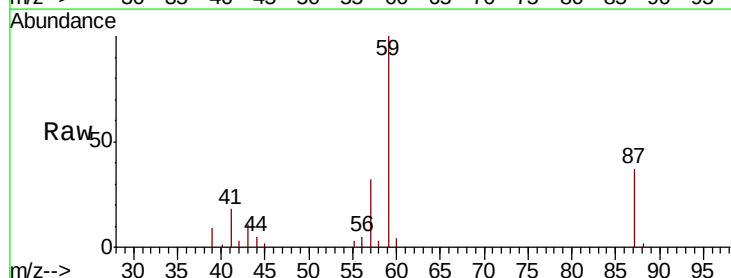
Acq: 22 Oct 2018 18:45

Tgt Ion: 59 Resp: 23361

Ion Ratio Lower Upper

59 100

87 36.6 29.4 44.0



Abundance Ion 59.00 (58.70 to 59.70): VU027750.D (-885) (-)

Ion 87.00 (86.70 to 87.70): VU027750.D (-885) (-)

8000

6000

4000

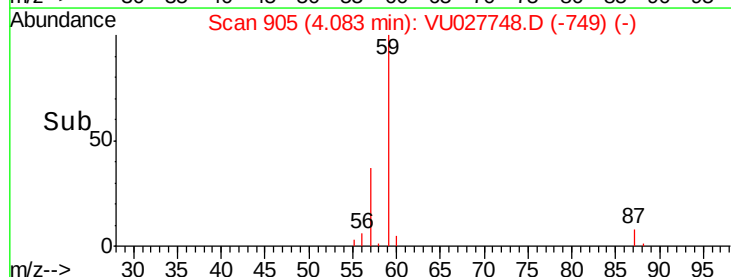
2000

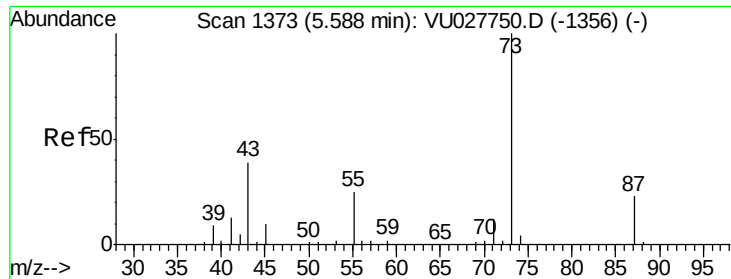
0

Time-->

4.00 4.10 4.20

4.08





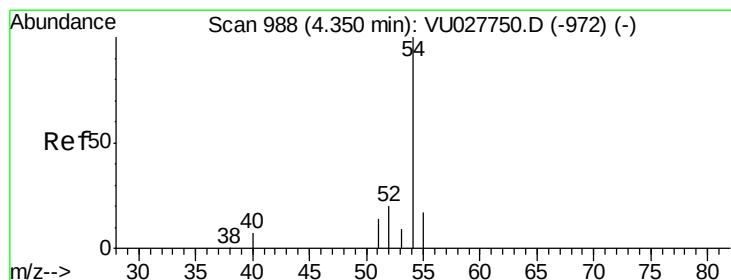
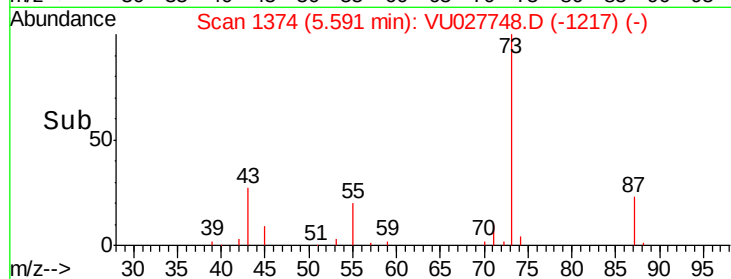
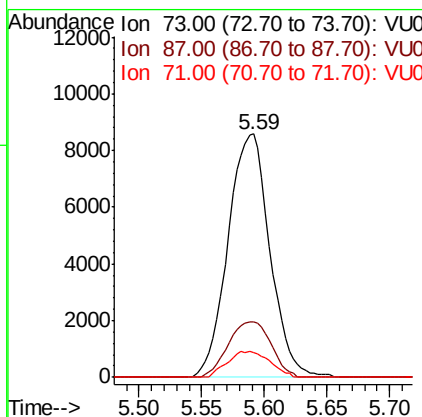
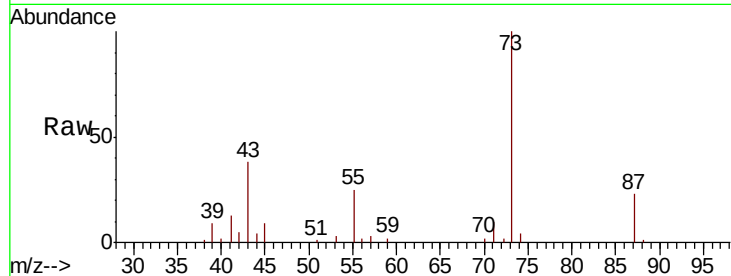
#33
Tert-Butyl methyl ether
Concen: 1.838 ug/l
RT: 5.59 min Scan# 1374
Delta R.T. 0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
73	100		
87	23.4	18.5	27.7
71	10.8	9.1	13.7

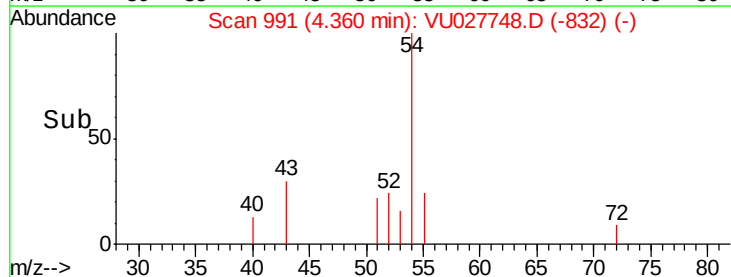
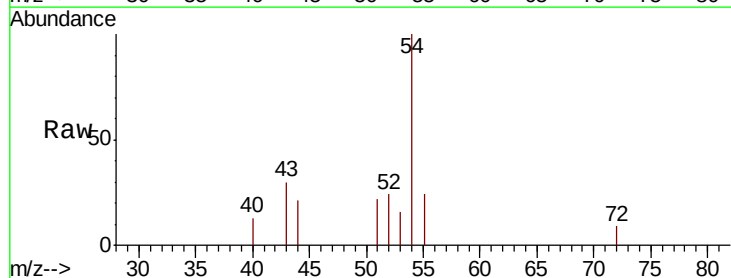
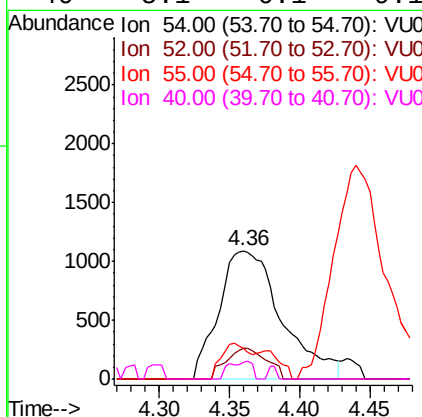
Manual Integrations
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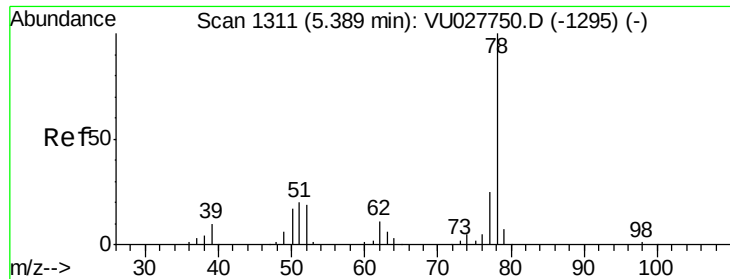
sam
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#34
Propionitrile
Concen: 8.864 ug/l
RT: 4.36 min Scan# 991
Delta R.T. 0.01 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Tgt Ion	Ratio	Lower	Upper
54	100		
52	15.5	15.5	23.3#
55	12.1	12.6	18.8#
40	5.1	6.1	9.1#





#35

Benzene

Concen: 1.908 ug/l

RT: 5.39 min Scan# 1312

Delta R.T. 0.00 min

Lab File: VU027748.D

Acq: 22 Oct 2018 18:45

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC002

Tot Ion: 78 Resp: 31307

Ion Ratio Lower Upper

78 100

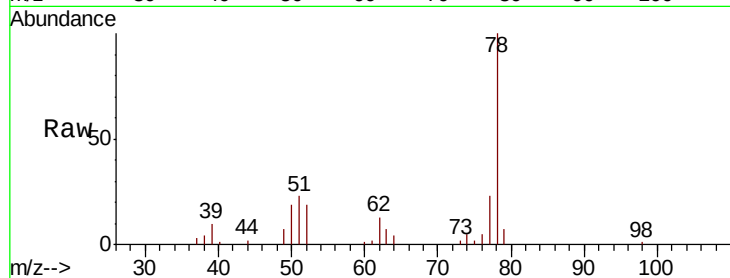
77 23.3 19.9 29.9

Manual Integrations

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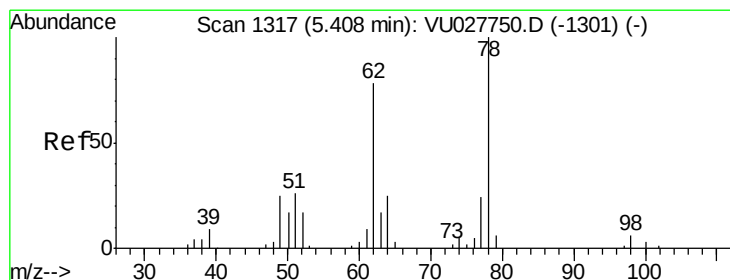
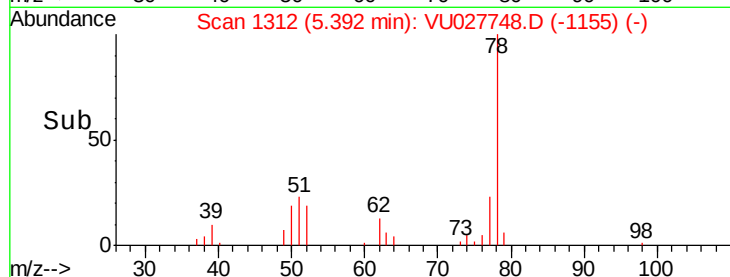
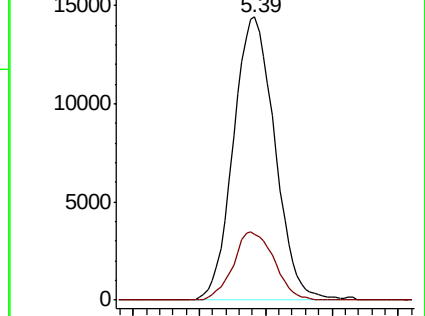
sam

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Abundance Ion 78.10 (77.80 to 78.80): VU027750.D (-1295) (-)

Ion 77.00 (76.70 to 77.70): VU027750.D (-1295) (-)



#36

1,2-Dichloroethane

Concen: 1.933 ug/l

RT: 5.41 min Scan# 1318

Delta R.T. 0.00 min

Lab File: VU027748.D

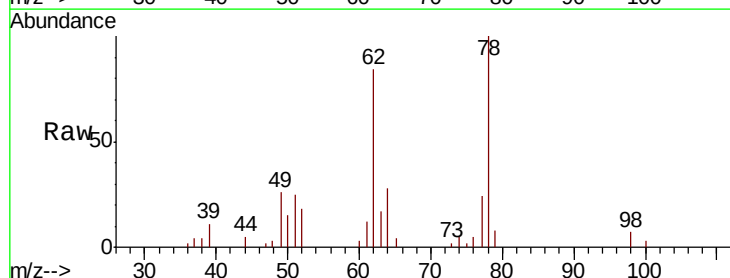
Acq: 22 Oct 2018 18:45

Tgt Ion: 62 Resp: 10113

Ion Ratio Lower Upper

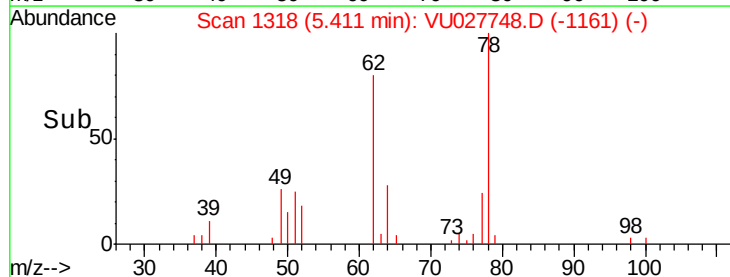
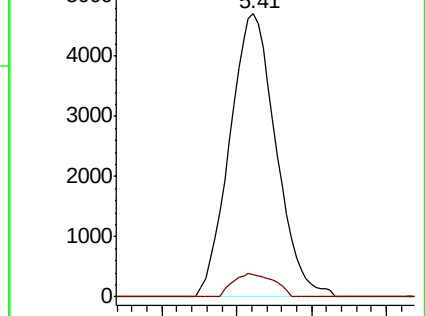
62 100

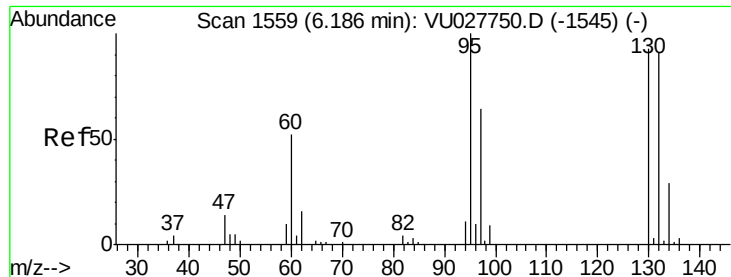
98 7.4 5.8 8.6



Abundance Ion 62.00 (61.70 to 62.70): VU027750.D (-1301) (-)

Ion 98.00 (97.70 to 98.70): VU027750.D (-1301) (-)





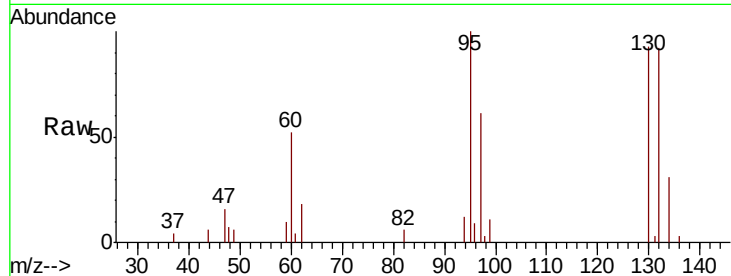
#37
 Trichloroethene
 Concen: 1.828 ug/l
 RT: 6.19 min Scan# 1559
 Delta R.T. 0.00 min
 Lab File: VU027748.D
 Acq: 22 Oct 2018 18:45

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC002

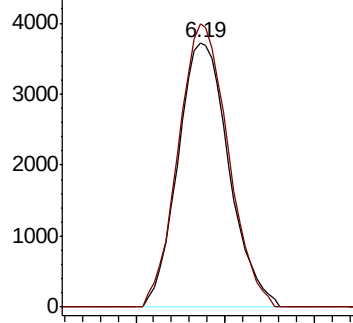
Tot Ion:130 Resp: 7387
 Ion Ratio Lower Upper
 130 100
 95 107.0 86.4 129.6

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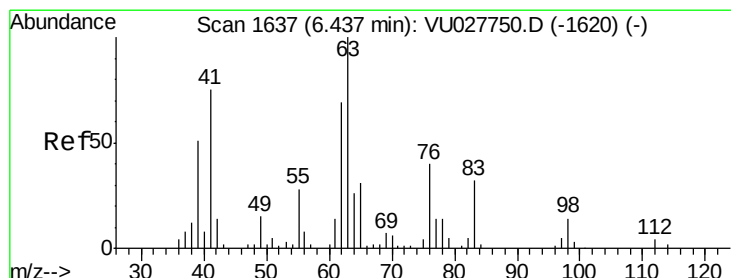
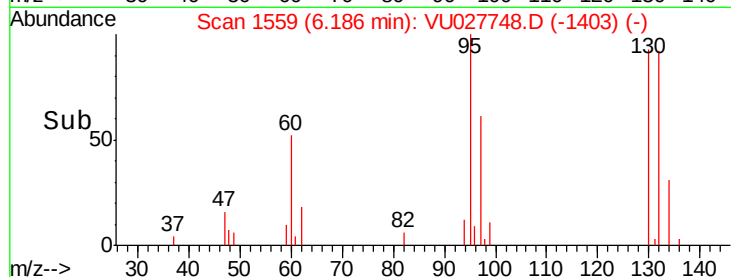
sam
 10/24/2018 2:20:10 PM



Abundance Ion 129.90 (129.60 to 130.60): VU027750.D (-1545) (-)
 Ion 94.90 (94.60 to 95.60): VU027750.D (-1545) (-)

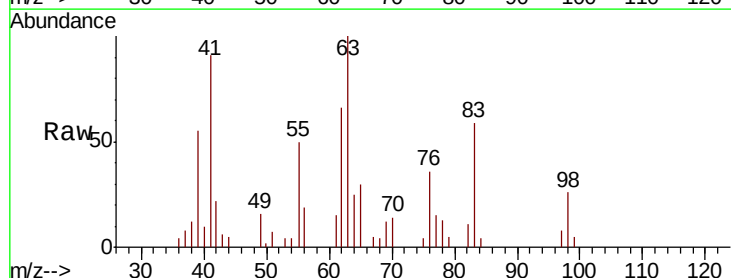


Time-->

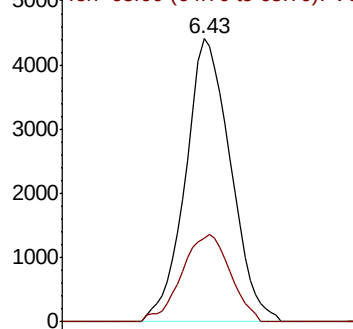


#38
 1,2-Dichloropropane
 Concen: 1.832 ug/l
 RT: 6.43 min Scan# 1636
 Delta R.T. -0.00 min
 Lab File: VU027748.D
 Acq: 22 Oct 2018 18:45

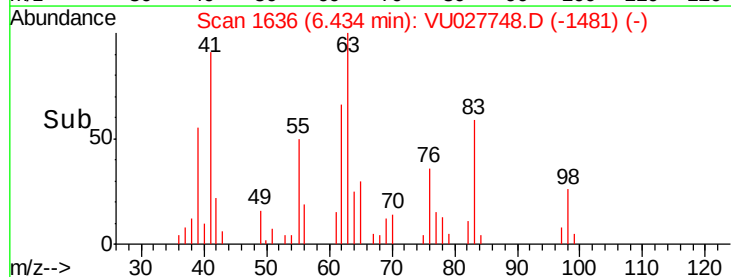
Tgt Ion: 63 Resp: 8478
 Ion Ratio Lower Upper
 63 100
 65 29.8 24.9 37.3

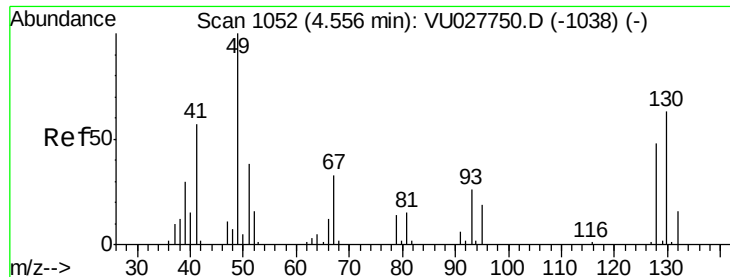


Abundance Ion 63.00 (62.70 to 63.70): VU027750.D (-1620) (-)
 Ion 65.00 (64.70 to 65.70): VU027750.D (-1620) (-)



Time-->





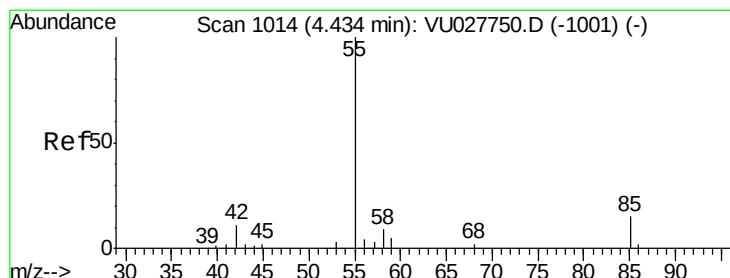
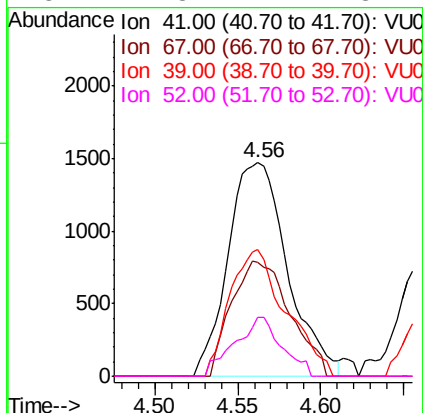
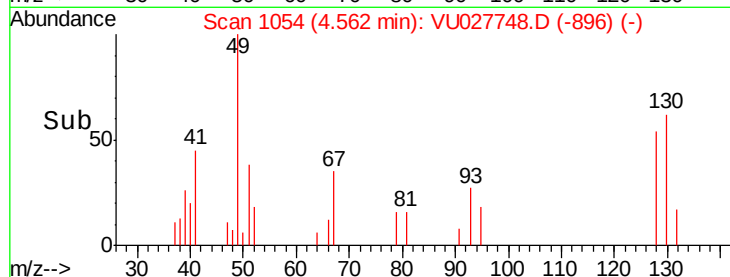
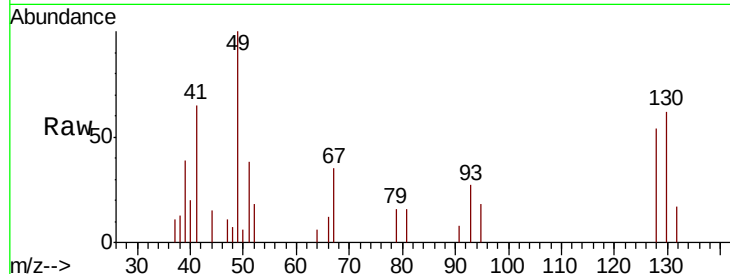
#39
Methacrylonitrile
Concen: 1.948 ug/l
RT: 4.56 min Scan# 1054
Delta R.T. 0.01 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC002

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
67	53.0	46.1	69.1	
39	55.8	43.6	65.4	
52	21.8	21.4	32.2	

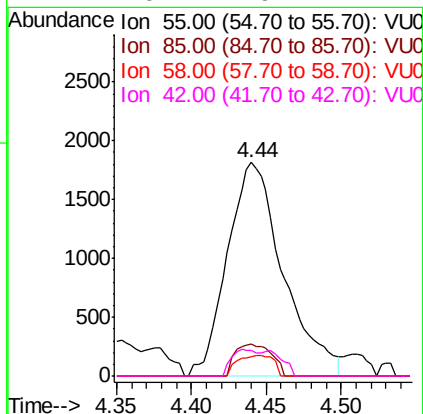
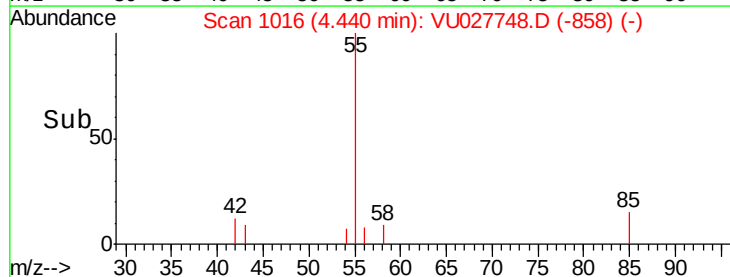
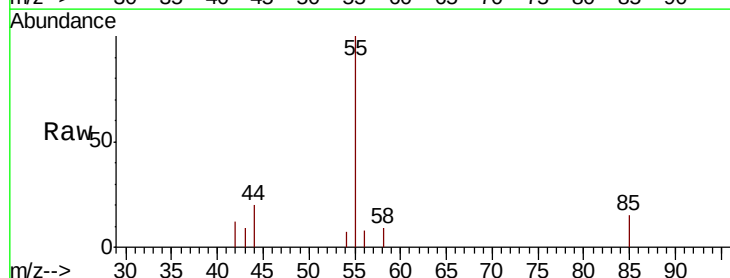
Manual Integrations
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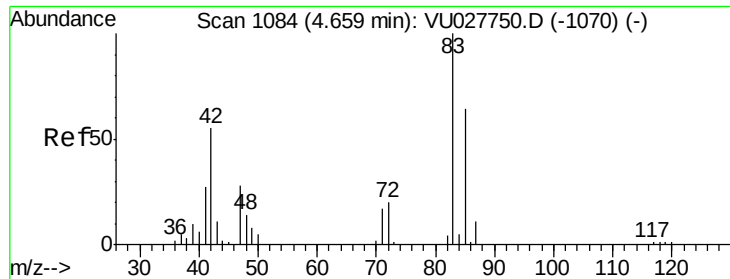
sam
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#40
Methyl acrylate
Concen: 1.839 ug/l
RT: 4.44 min Scan# 1016
Delta R.T. 0.01 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Tgt Ion	Ion	Ratio	Lower	Upper
55	100			
85	9.7	11.8	17.6#	
58	6.2	7.0	10.4#	
42	6.2	9.4	14.2#	





#41

Tetrahydrofuran

Concen: 3.987 ug/l

RT: 4.67 min Scan# 1086

Delta R.T. 0.01 min

Lab File: VU027748.D

Acq: 22 Oct 2018 18:45

Instrument :

MSVOA_U

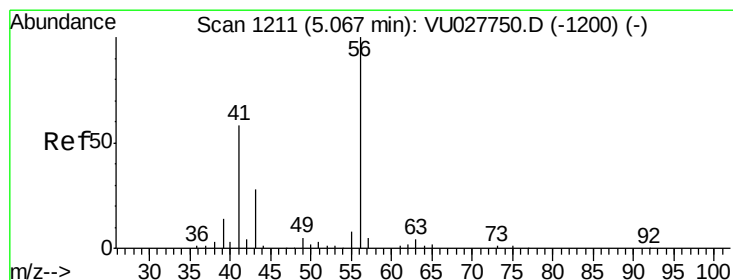
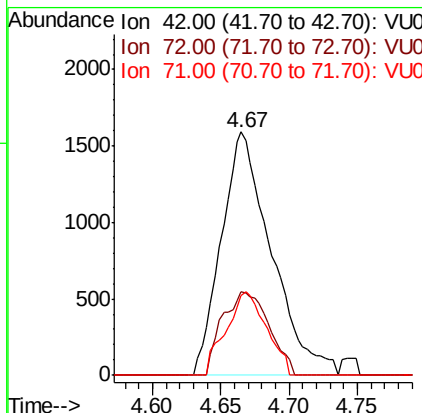
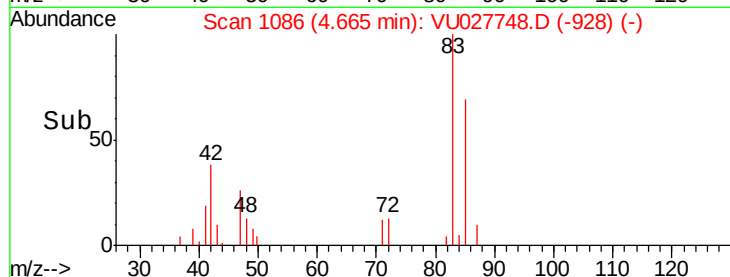
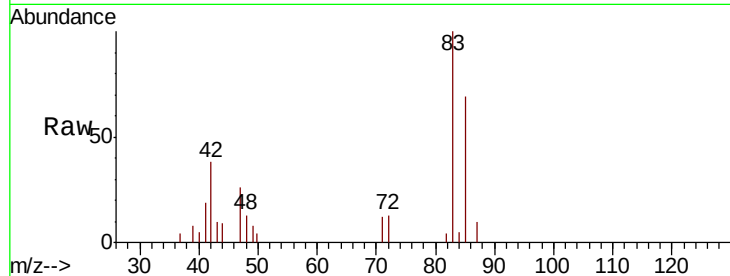
ClientSampleId :

VSTDIC002

Tot Ion:	42	Resp:	4052
Ion	Ratio	Lower	Upper
42	100		
72	32.0	30.6	45.8
71	27.6	25.2	37.8

Manual Integrations
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sam
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#42

1-Chlorobutane

Concen: 1.900 ug/l

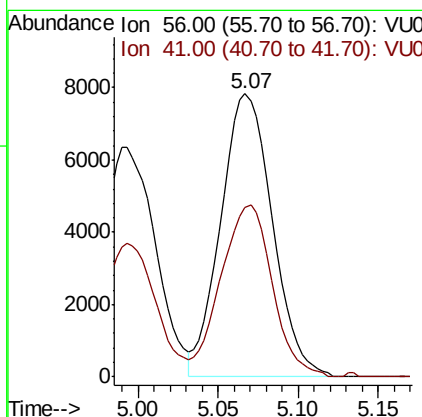
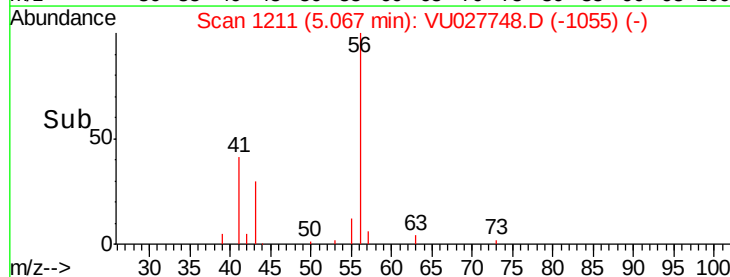
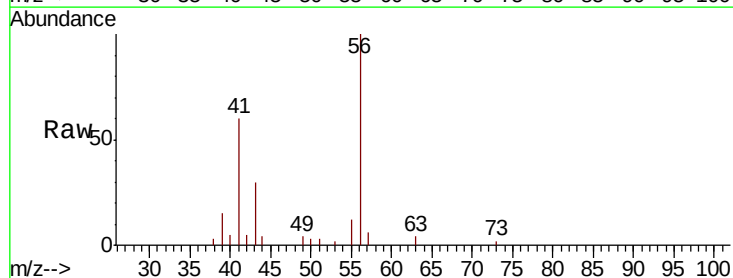
RT: 5.07 min Scan# 1211

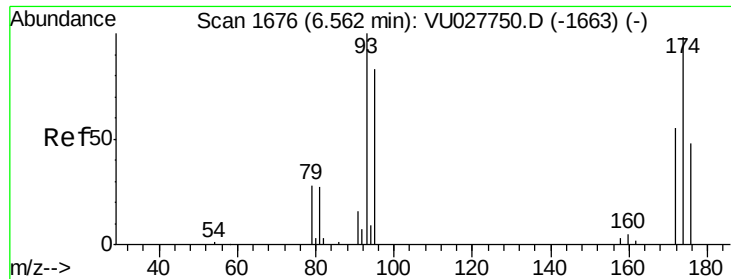
Delta R.T. 0.00 min

Lab File: VU027748.D

Acq: 22 Oct 2018 18:45

Tgt Ion:	56	Resp:	17340
Ion	Ratio	Lower	Upper
56	100		
41	60.5	29.4	88.2





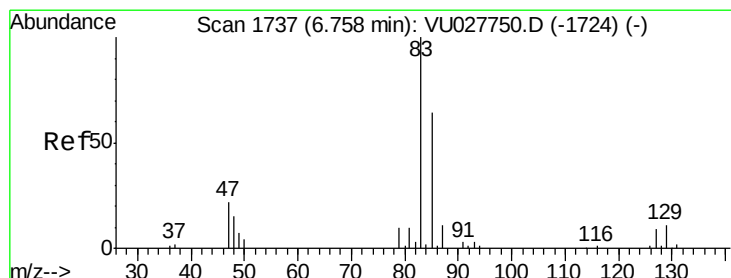
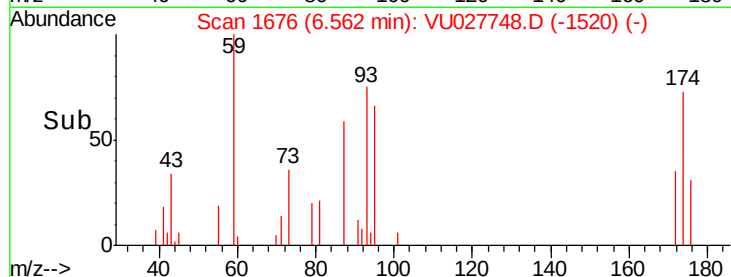
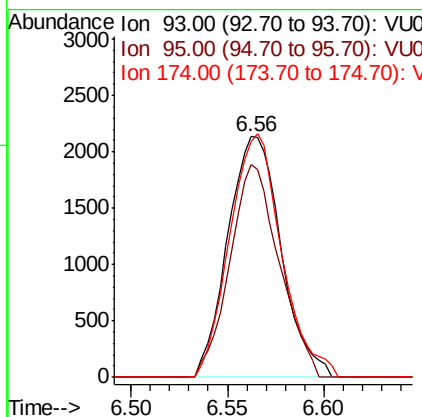
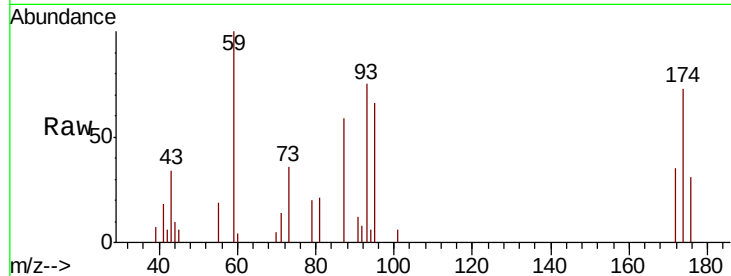
#43
Dibromomethane
Concen: 1.981 ug/l
RT: 6.56 min Scan# 1676
Delta R.T. 0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC002

Tot Ion: 93 Resp: 4085
Ion Ratio Lower Upper
93 100
95 81.8 64.2 96.2
174 98.8 76.7 115.1

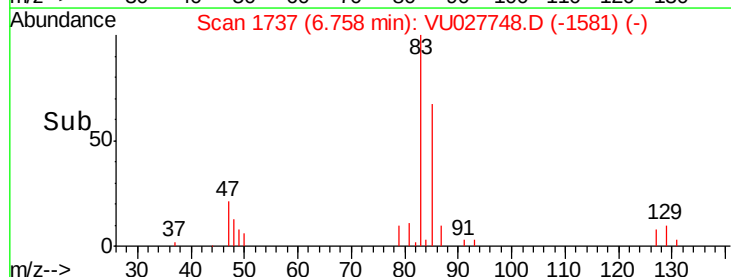
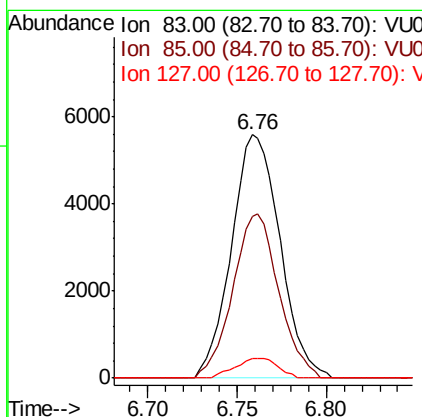
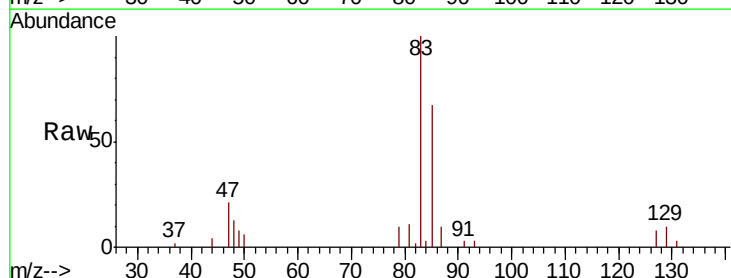
Manual Integrations
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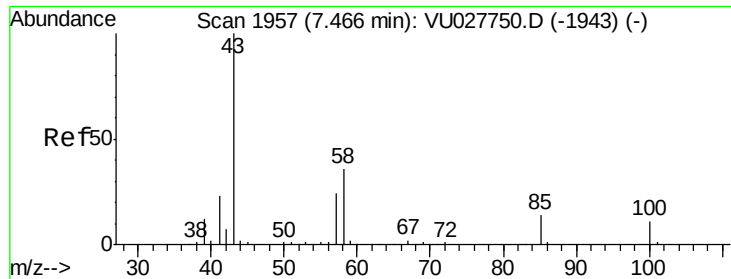
sam
10/24/2018 2:20:10 PM



#44
Bromodichloromethane
Concen: 1.917 ug/l
RT: 6.76 min Scan# 1737
Delta R.T. 0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Tgt Ion: 83 Resp: 10617
Ion Ratio Lower Upper
83 100
85 66.6 51.5 77.3
127 7.8 7.0 10.4





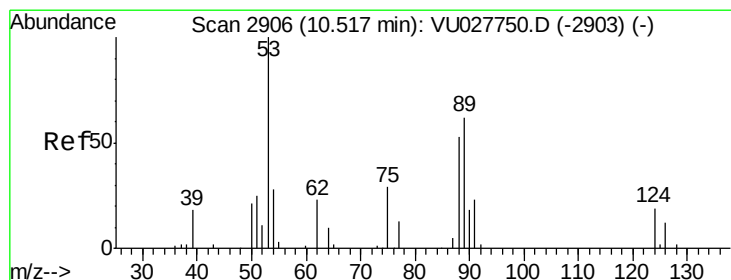
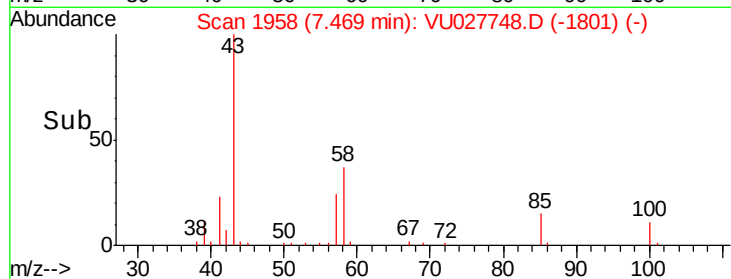
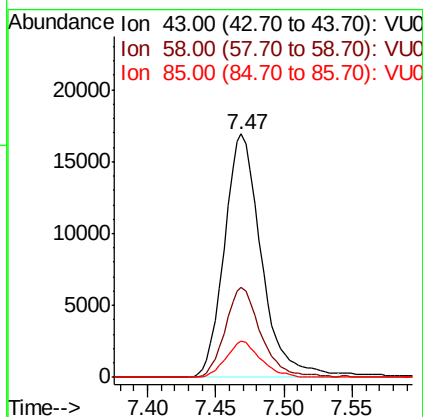
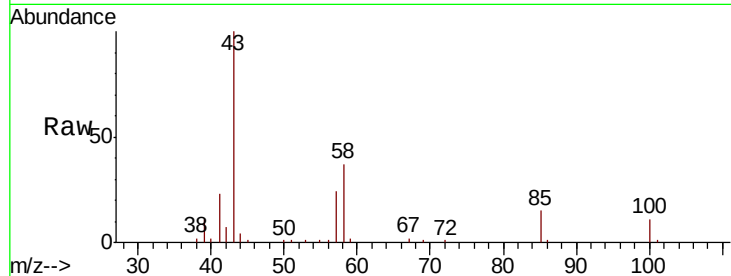
#45
4-Methyl-2-Pentanone
Concen: 9.122 ug/l
RT: 7.47 min Scan# 1958
Delta R.T. 0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
43	100		
58	35.6	17.9	53.8
85	13.8	11.4	17.0

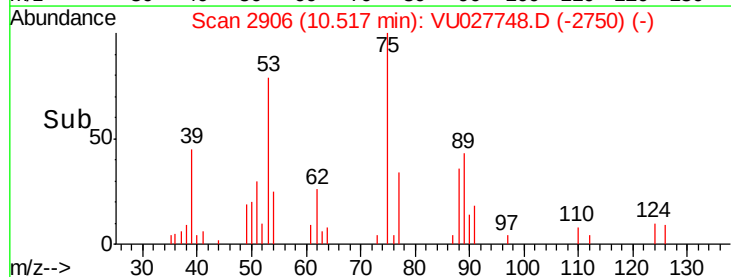
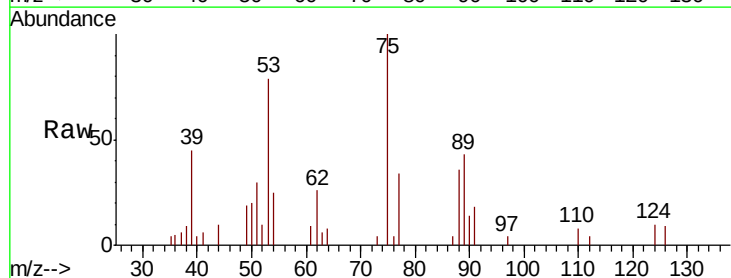
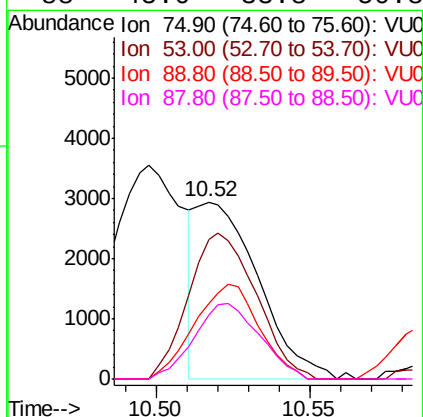
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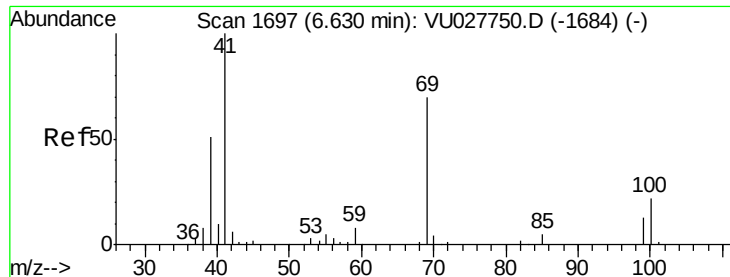
sam
10/24/2018 2:20:10 PM



#46
t-1,4-Dichloro-2-butene
Concen: 3.205 ug/l m
RT: 10.52 min Scan# 2906
Delta R.T. 0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Tgt Ion	Ratio	Lower	Upper
75	100		
53	89.9	68.2	102.4
89	56.1	41.8	62.6
88	45.0	33.8	50.8





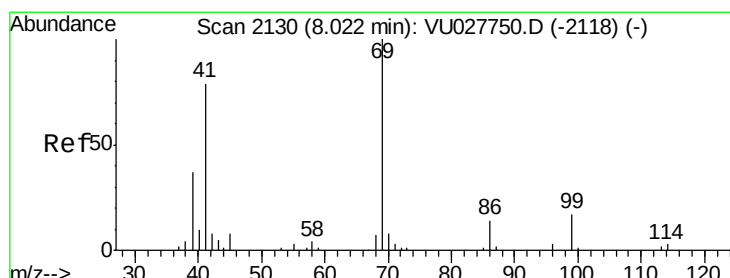
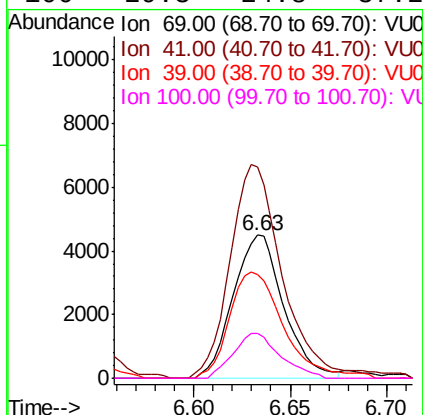
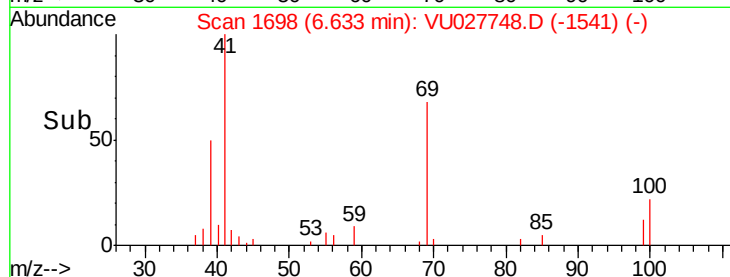
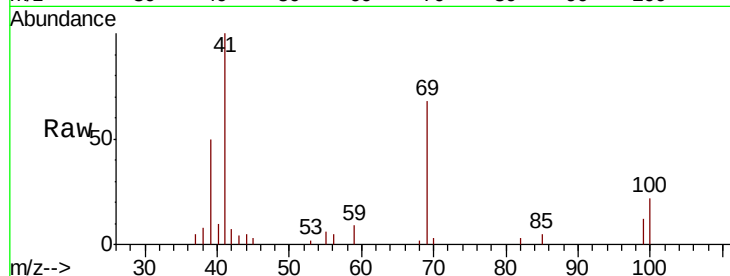
#47
Methyl methacrylate
Concen: 3.608 ug/l
RT: 6.63 min Scan# 1698
Delta R.T. 0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
69	100		
41	155.5	0.0	281.2
39	78.1	58.6	88.0
100	29.3	24.8	37.2

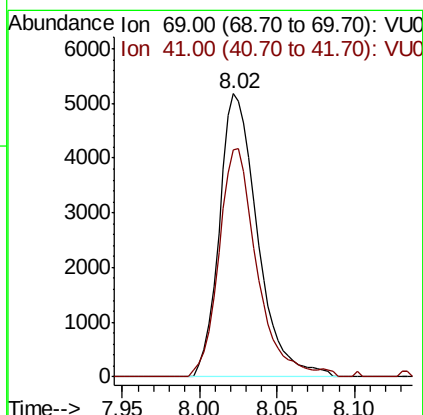
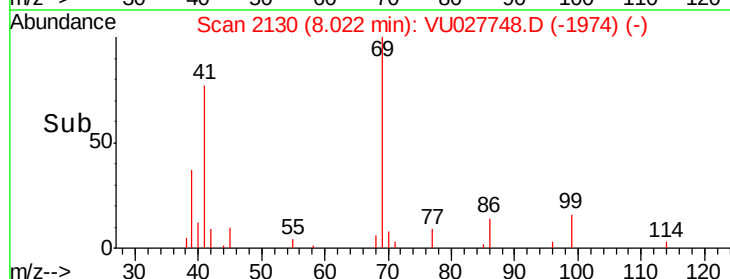
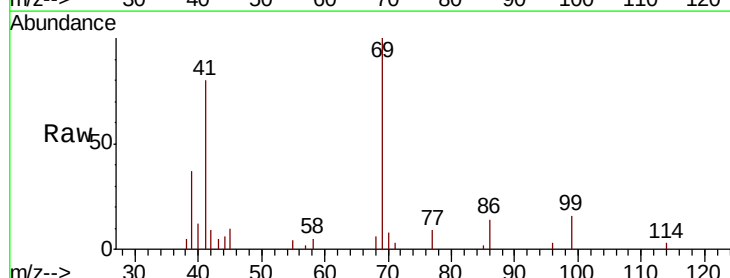
Manual Integrations
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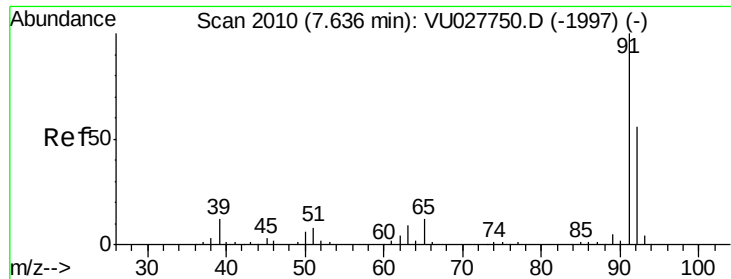
sam
10/24/2018 2:20:10 PM



#48
Ethyl methacrylate
Concen: 1.819 ug/l
RT: 8.02 min Scan# 2130
Delta R.T. 0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Tgt Ion	Ratio	Lower	Upper
69	100		
41	79.8	39.1	117.2





#49

Toluene

Concen: 1.841 ug/l

RT: 7.64 min Scan# 2011

Delta R.T. 0.00 min

Lab File: VU027748.D

Acq: 22 Oct 2018 18:45

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC002

Tot Ion: 92 Resp: 18280

Ion Ratio Lower Upper

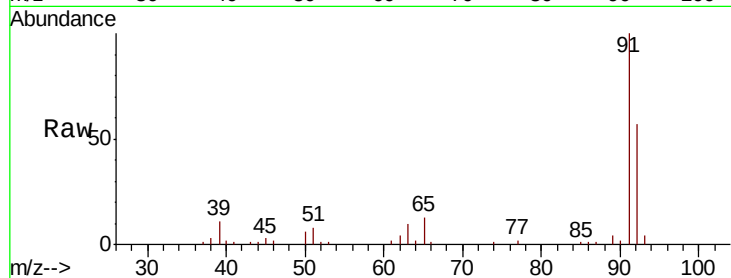
92 100

91 177.0 141.8 212.8

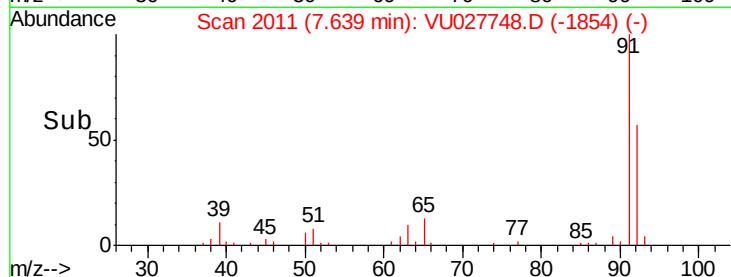
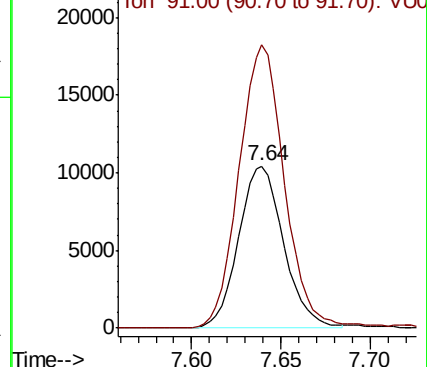
Manual Integrations
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sam

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Abundance Ion 92.00 (91.70 to 92.70): VU027748.D (-1854) (-)



#50

t-1,3-Dichloropropene

Concen: 1.823 ug/l

RT: 7.88 min Scan# 2087

Delta R.T. 0.00 min

Lab File: VU027748.D

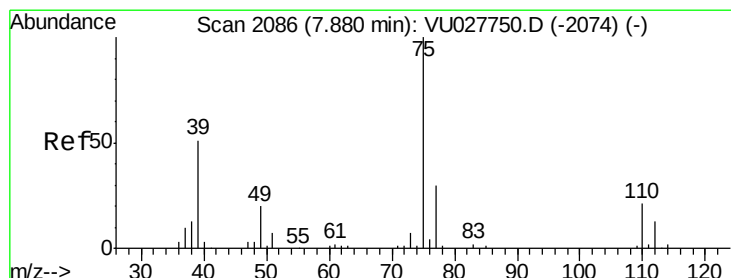
Acq: 22 Oct 2018 18:45

Tgt Ion: 75 Resp: 10255

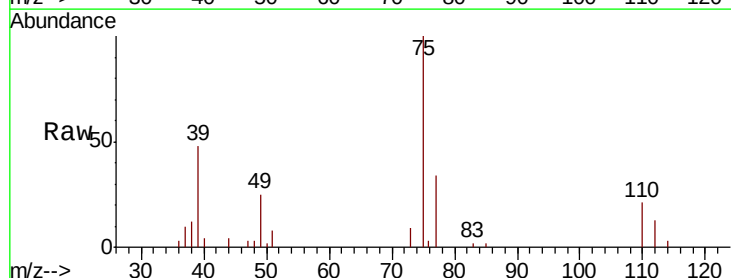
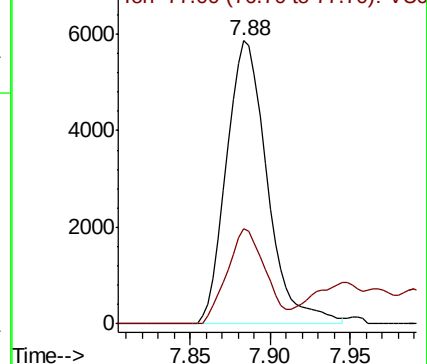
Ion Ratio Lower Upper

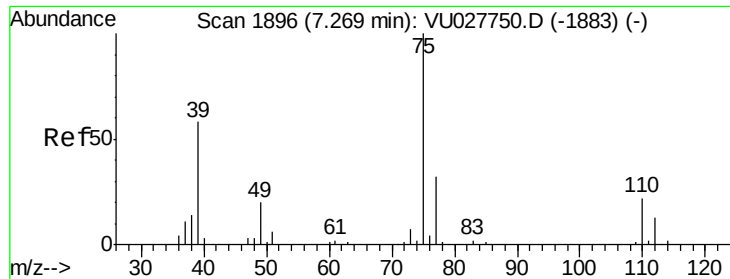
75 100

77 33.8 24.1 36.1



Abundance Ion 75.00 (74.70 to 75.70): VU027748.D (-1930) (-)





#51

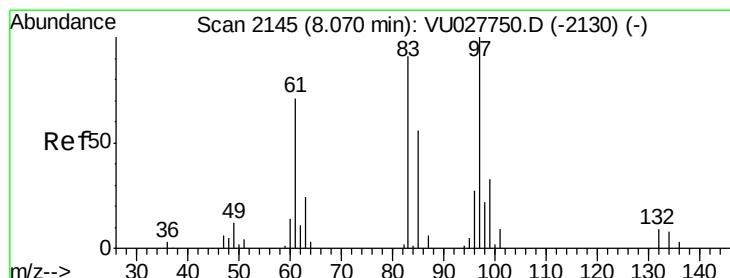
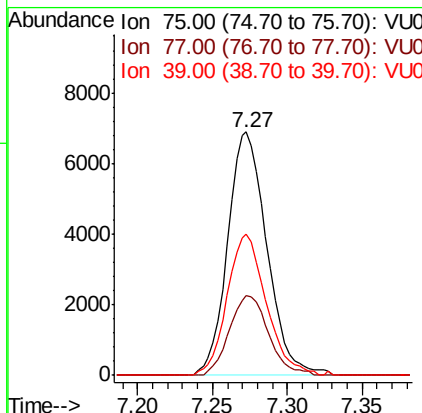
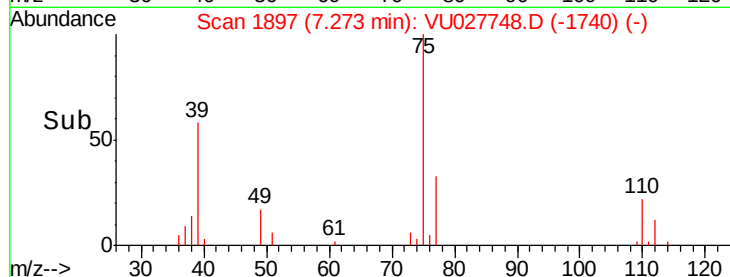
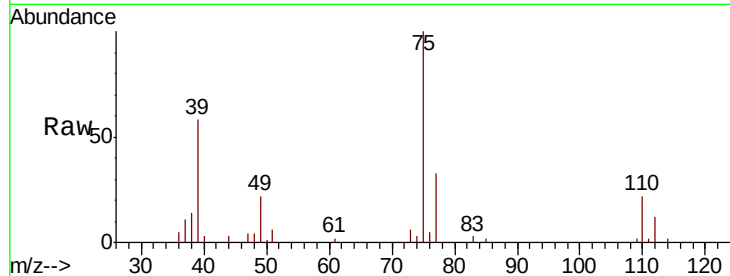
cis-1,3-Dichloropropene
 Concen: 1.884 ug/l
 RT: 7.27 min Scan# 1897
 Delta R.T. 0.00 min
 Lab File: VU027748.D
 Acq: 22 Oct 2018 18:45

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.7	25.3	37.9
39	58.1	46.4	69.6

Manual Integrations
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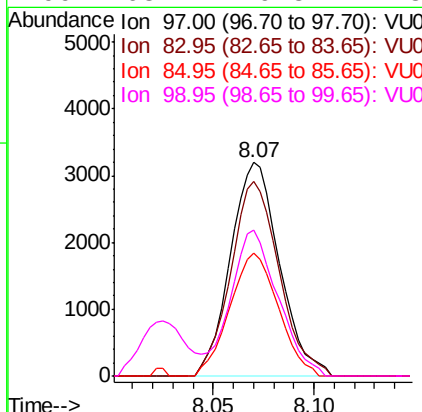
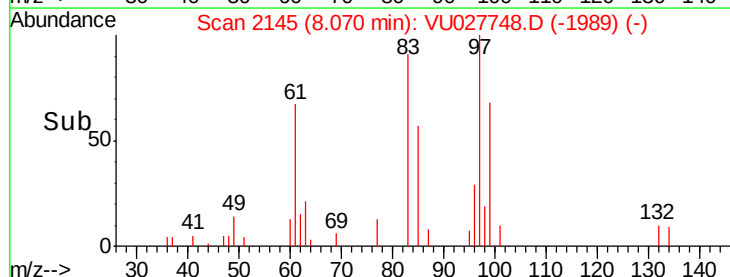
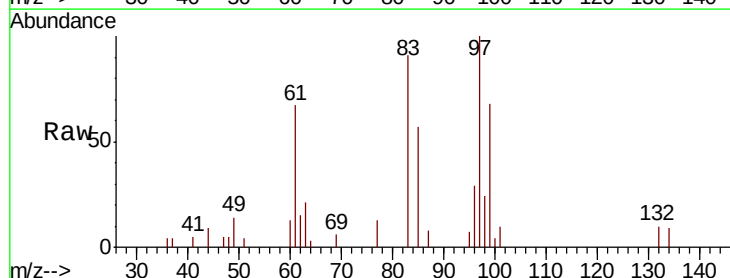
sam
 10/24/2018 2:20:10 PM

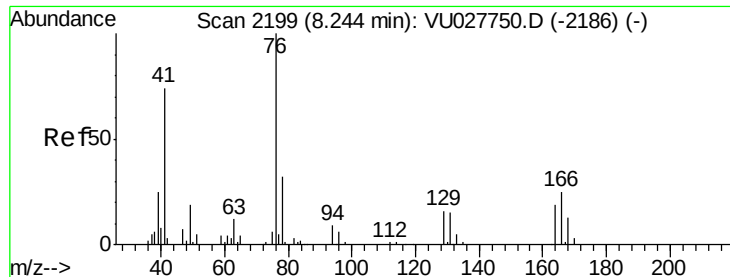


#52

1,1,2-Trichloroethane
 Concen: 1.860 ug/l
 RT: 8.07 min Scan# 2145
 Delta R.T. 0.00 min
 Lab File: VU027748.D
 Acq: 22 Oct 2018 18:45

Tgt Ion	Ratio	Lower	Upper
97	100		
83	91.0	73.0	109.6
85	57.4	46.5	69.7
99	68.1	49.8	74.8





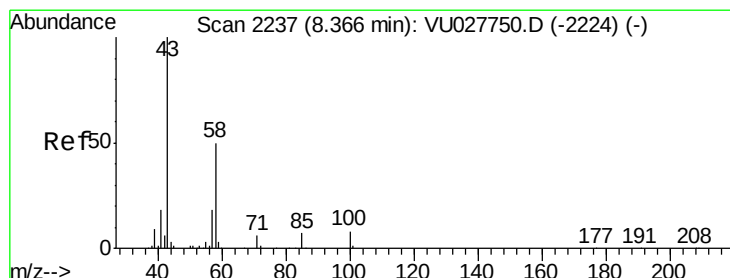
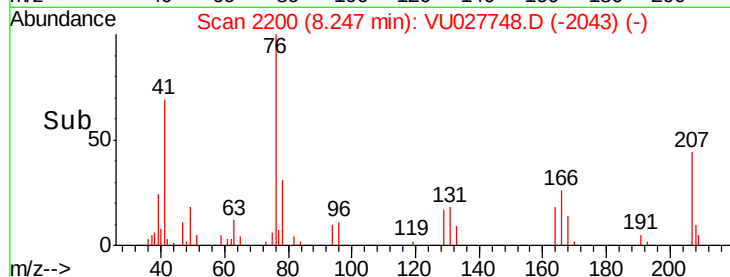
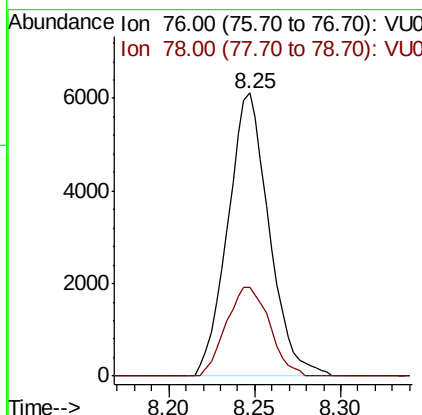
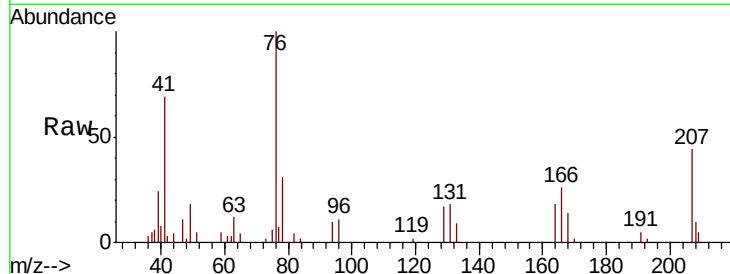
#53
 1,3-Dichloropropane
 Concen: 1.897 ug/l
 RT: 8.25 min Scan# 2200
 Delta R.T. 0.00 min
 Lab File: VU027748.D
 Acq: 22 Oct 2018 18:45

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC002

Tot Ion: 76 Resp: 10217
 Ion Ratio Lower Upper
 76 100
 78 32.9 25.4 38.0

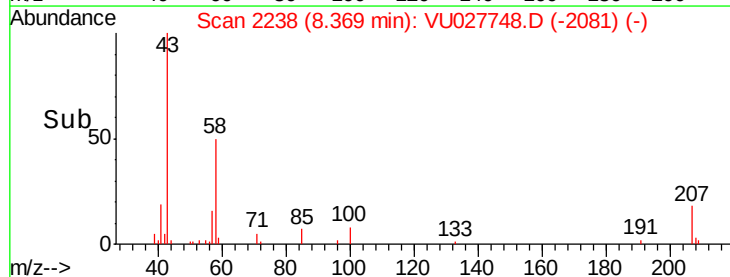
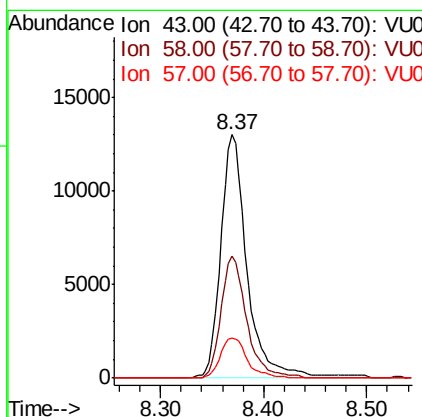
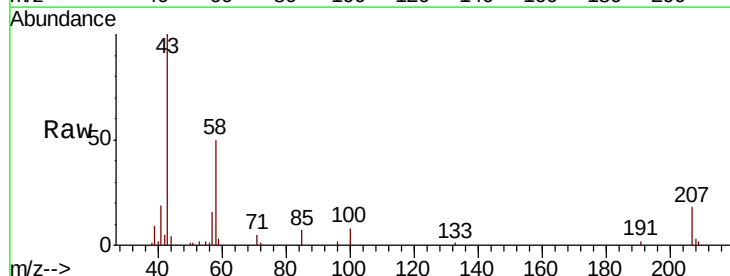
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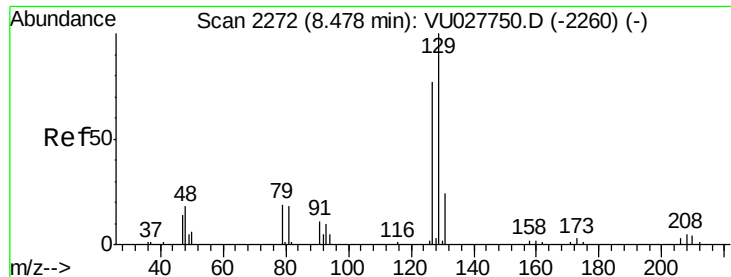
sam
 10/24/2018 2:20:10 PM



#54
 2-Hexanone
 Concen: 8.980 ug/l
 RT: 8.37 min Scan# 2238
 Delta R.T. 0.00 min
 Lab File: VU027748.D
 Acq: 22 Oct 2018 18:45

Tgt Ion: 43 Resp: 23081
 Ion Ratio Lower Upper
 43 100
 58 48.7 30.0 70.0
 57 17.0 0.0 37.7





#55

Dibromochloromethane

Concen: 1.856 ug/l

RT: 8.48 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VU027748.D

Acq: 22 Oct 2018 18:45

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC002

Tot Ion:129 Resp: 6584

Ion Ratio Lower Upper

129 100

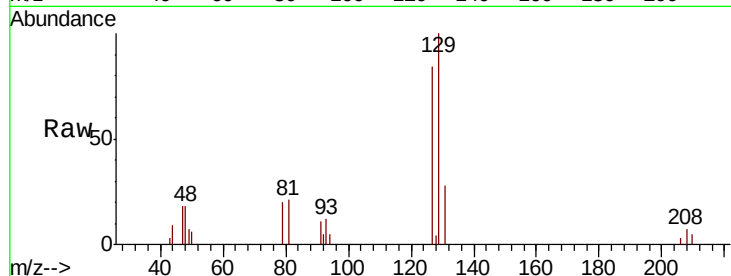
127 76.7 61.9 92.9

Manual Integrations

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sam

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Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

8.48

4000

3000

2000

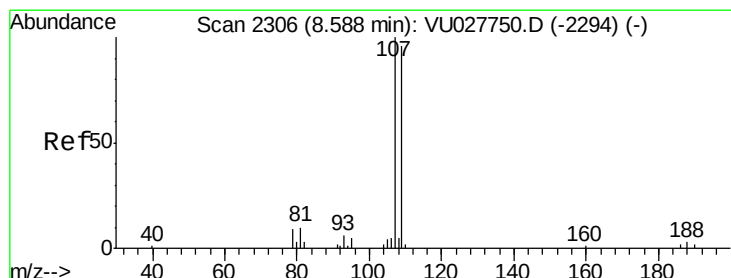
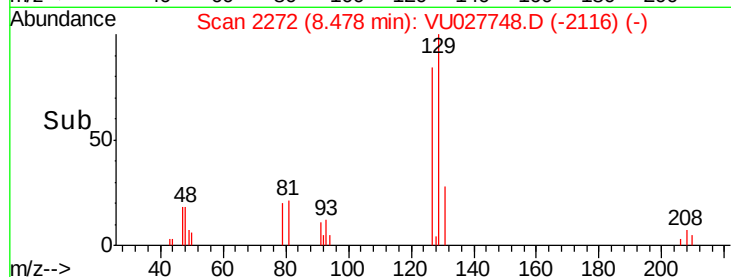
1000

0

8.45

8.50

Time-->



#56

1,2-Dibromoethane

Concen: 1.906 ug/l

RT: 8.59 min Scan# 2307

Delta R.T. 0.00 min

Lab File: VU027748.D

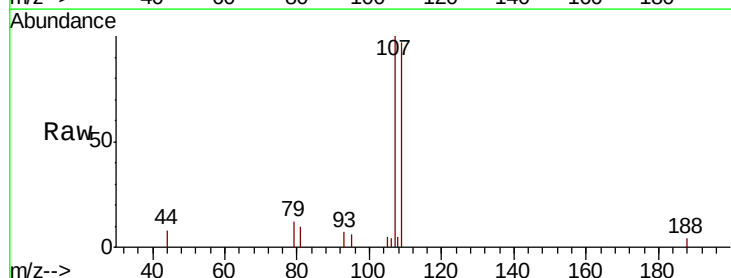
Acq: 22 Oct 2018 18:45

Tgt Ion:107 Resp: 5244

Ion Ratio Lower Upper

107 100

109 94.1 0.0 188.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.59

3000

2000

1000

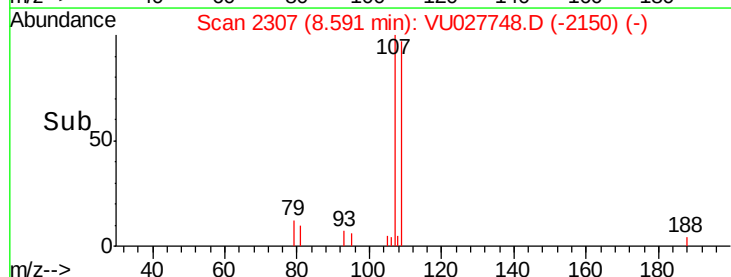
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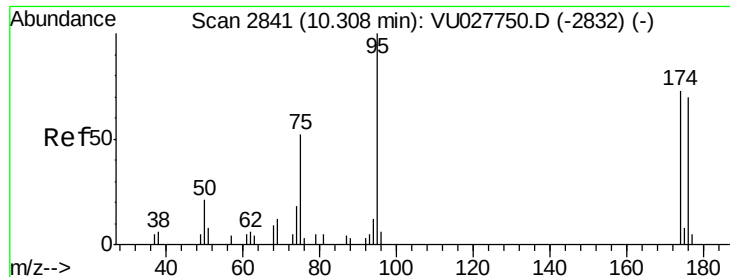
8.55

8.60

8.65

Time-->





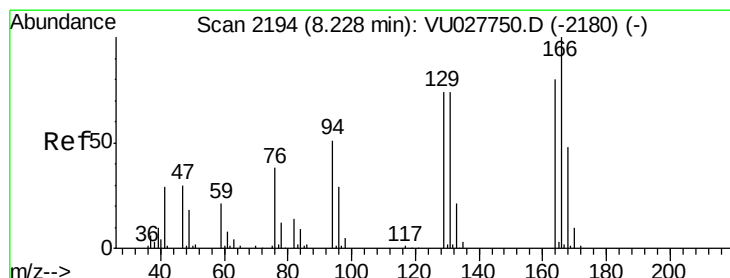
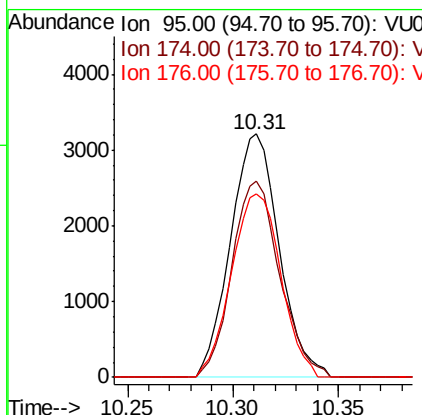
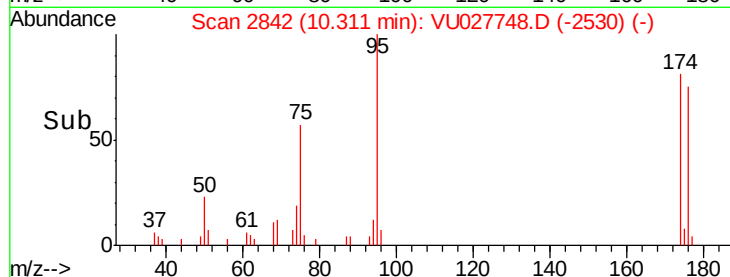
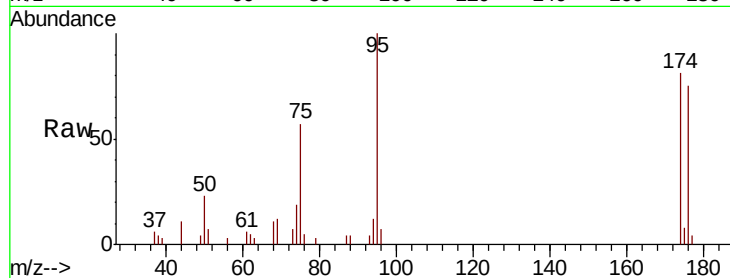
#57
4-Bromofluorobenzene
Concen: 1.906 ug/l
RT: 10.31 min Scan# 2842
Delta R.T. 0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
95	100		
174	79.4	64.5	96.7
176	76.5	58.3	87.5

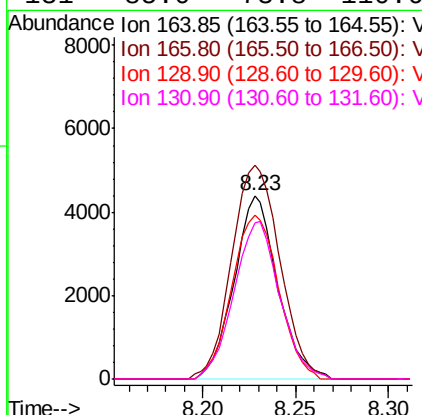
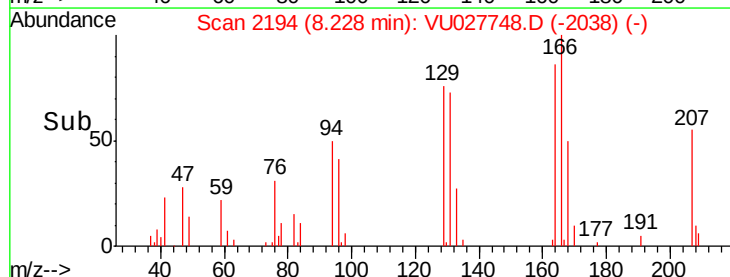
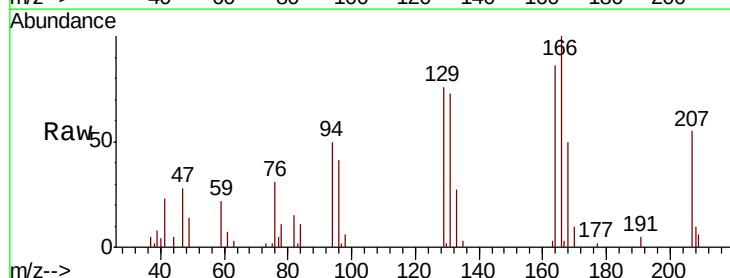
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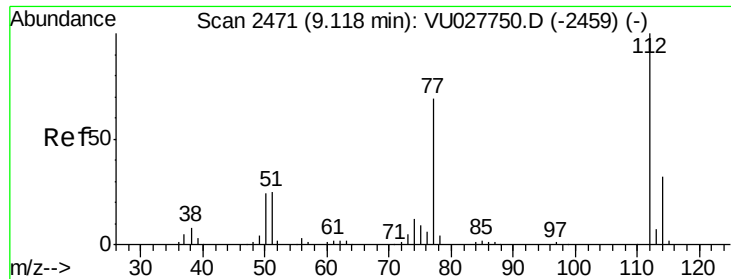
sam
10/24/2018 2:20:10 PM



#58
Tetrachloroethene
Concen: 1.957 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. 0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Tgt Ion	Ratio	Lower	Upper
164	100		
166	116.3	100.2	150.4
129	88.9	73.7	110.5
131	85.0	73.8	110.6





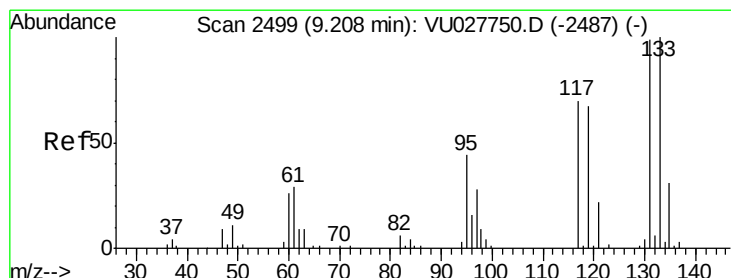
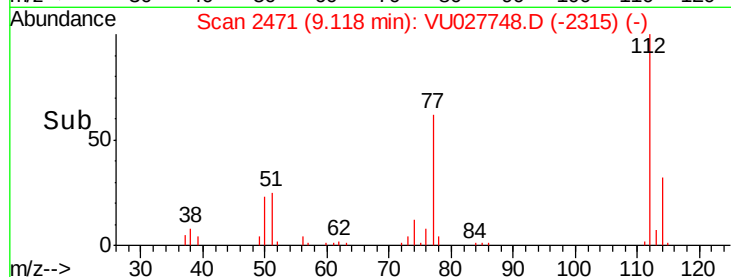
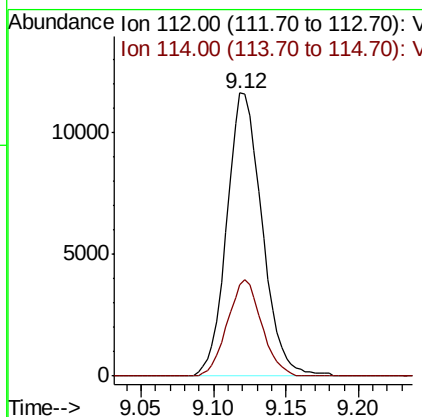
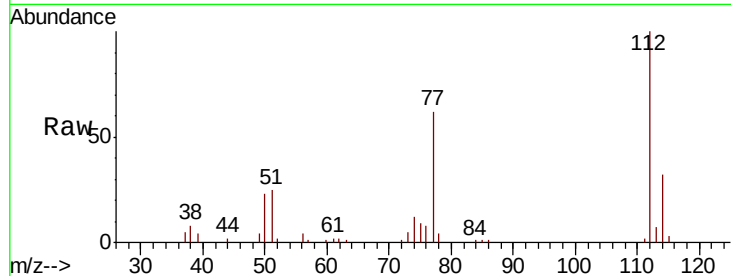
#59
Chlorobenzene
Concen: 1.885 ug/l
RT: 9.12 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC002

Tot Ion:112 Resp: 19609
Ion Ratio Lower Upper
112 100
114 32.3 25.4 38.0

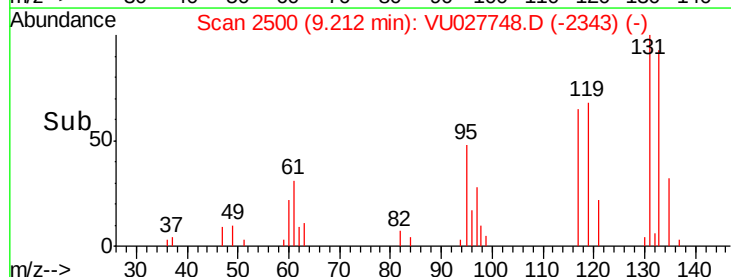
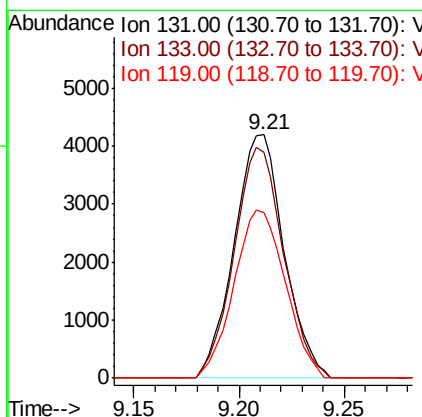
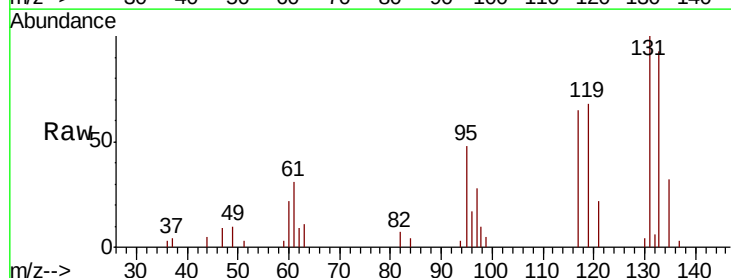
Manual Integrations
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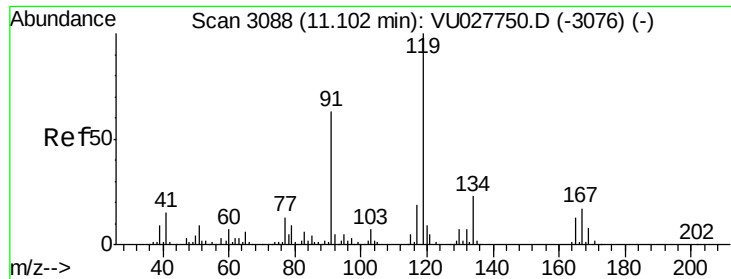
sam
10/24/2018 2:20:10 PM



#60
1,1,1,2-Tetrachloroethane
Concen: 1.835 ug/l
RT: 9.21 min Scan# 2500
Delta R.T. 0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Tgt Ion:131 Resp: 6923
Ion Ratio Lower Upper
131 100
133 93.9 77.5 116.3
119 70.6 52.0 78.0





#61

Pentachloroethane

Concen: 1.772 ug/l

RT: 11.10 min Scan# 3088

Delta R.T. 0.00 min

Lab File: VU027748.D

Acq: 22 Oct 2018 18:45

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC002

Tot Ion:117 Resp: 5175

Ion Ratio Lower Upper

117 100

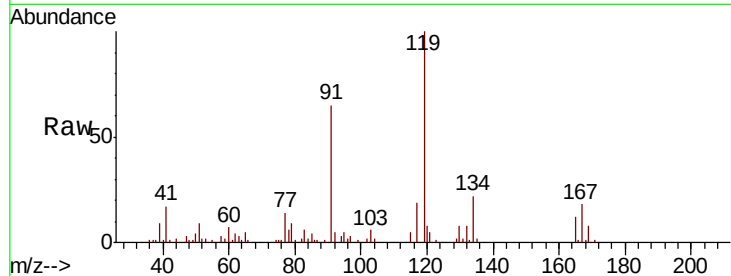
167 97.8 70.1 105.1

Manual Integrations

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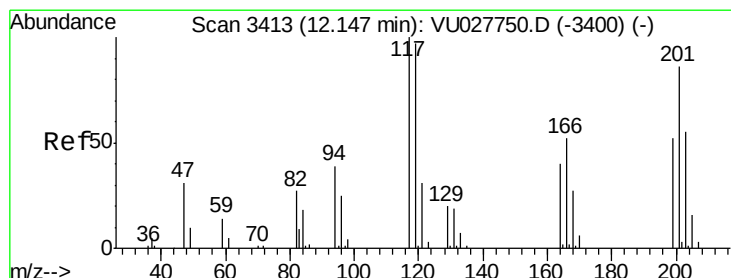
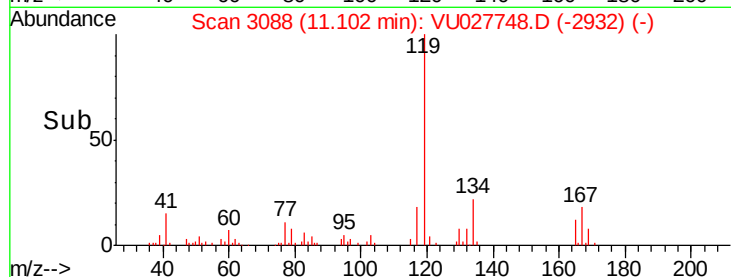
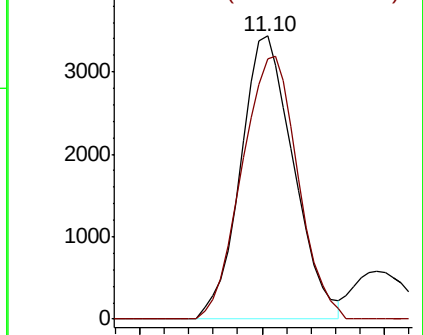
sam

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Abundance Ion 116.80 (116.50 to 117.50): V

Ion 166.70 (166.40 to 167.40): V



#62

Hexachloroethane

Concen: 1.875 ug/l

RT: 12.15 min Scan# 3413

Delta R.T. 0.00 min

Lab File: VU027748.D

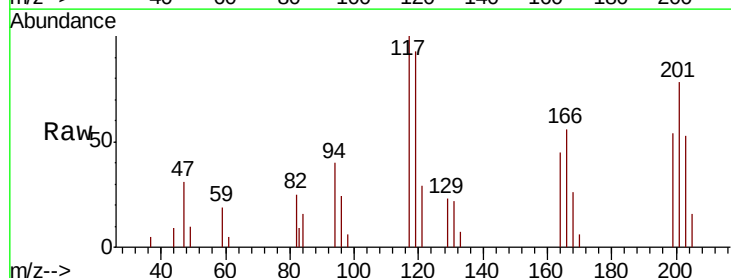
Acq: 22 Oct 2018 18:45

Tgt Ion:117 Resp: 5899

Ion Ratio Lower Upper

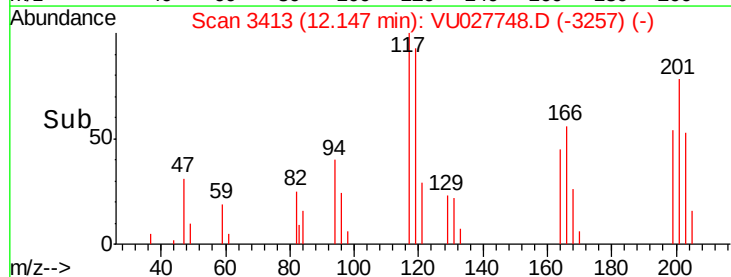
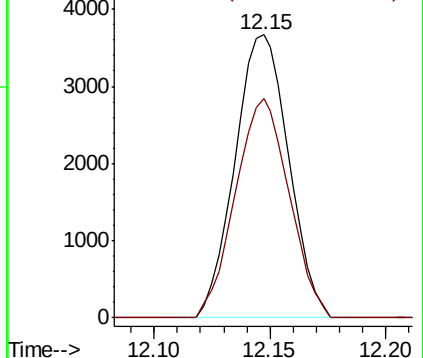
117 100

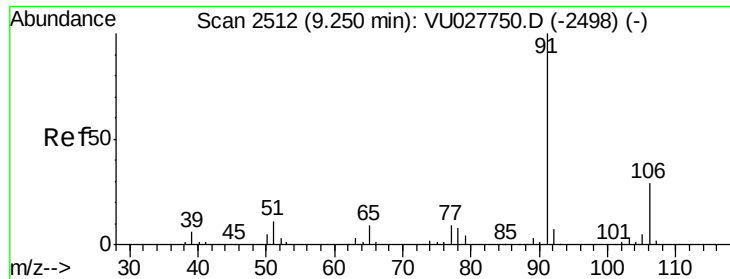
201 77.6 66.0 99.0



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.60 (200.30 to 201.30): V





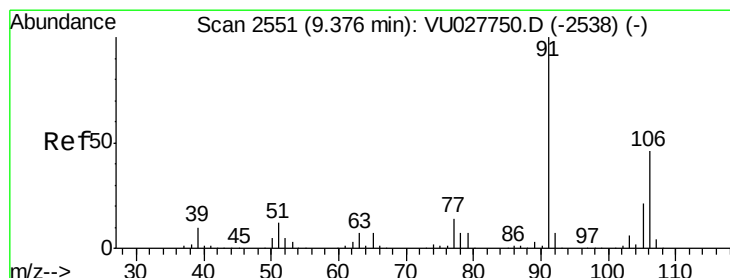
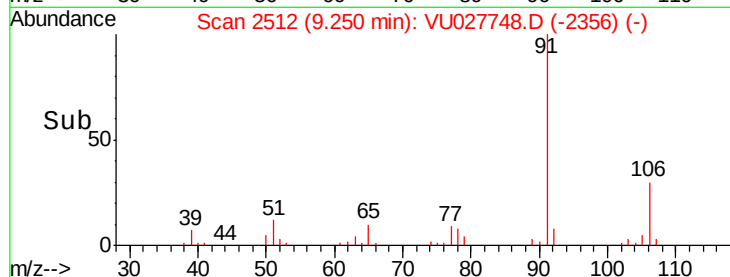
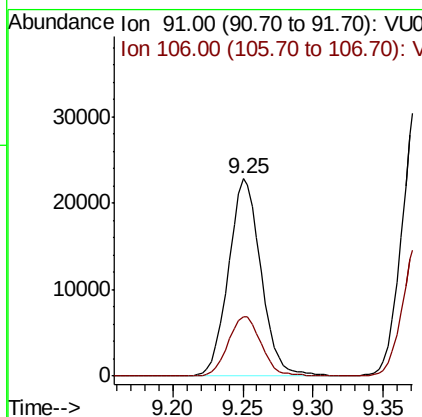
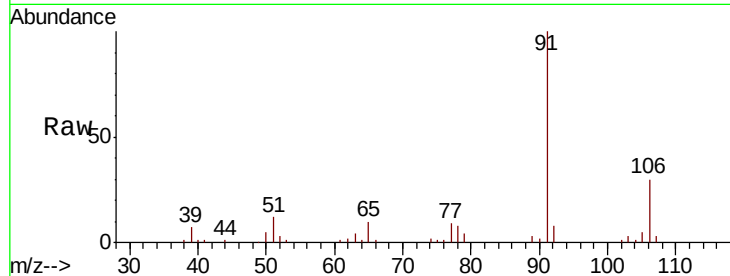
#63
Ethyl Benzene
Concen: 1.919 ug/l
RT: 9.25 min Scan# 2512
Delta R.T. 0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC002

Tot Ion: 91 Resp: 36920
Ion Ratio Lower Upper
91 100
106 30.2 23.5 35.3

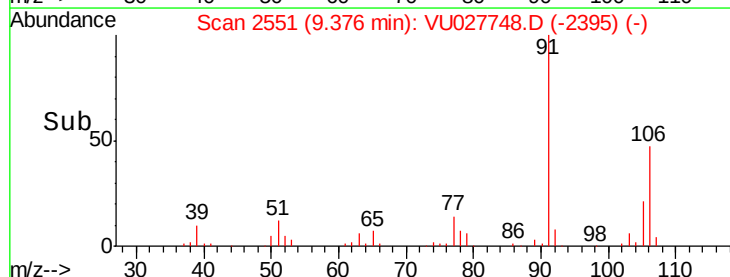
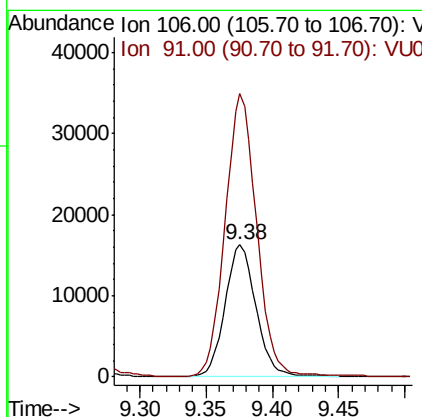
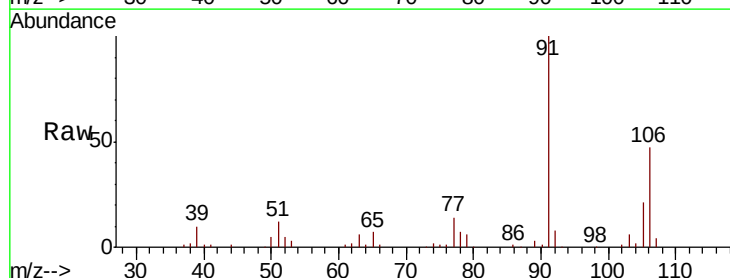
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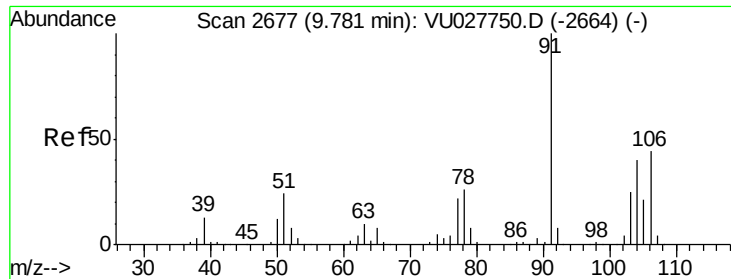
sam
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#64
m/p-Xylenes
Concen: 3.763 ug/l
RT: 9.38 min Scan# 2551
Delta R.T. 0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Tgt Ion: 106 Resp: 26464
Ion Ratio Lower Upper
106 100
91 218.3 173.3 259.9





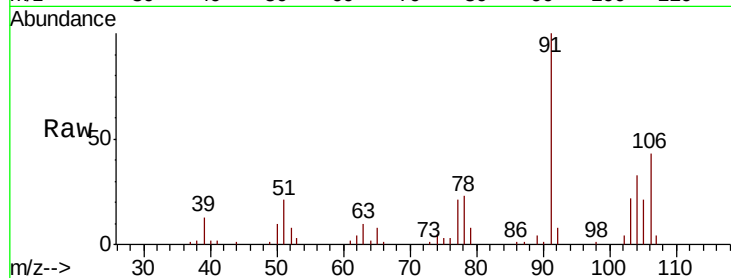
#65
o-Xylene
Concen: 1.826 ug/l
RT: 9.78 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC002

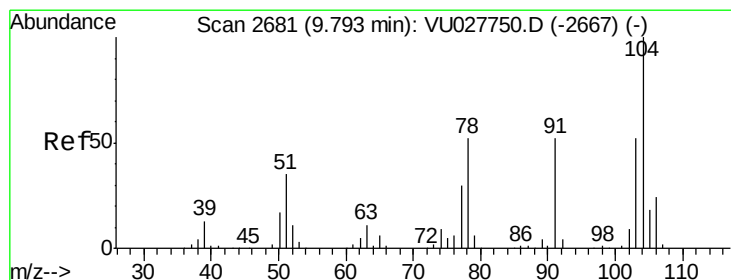
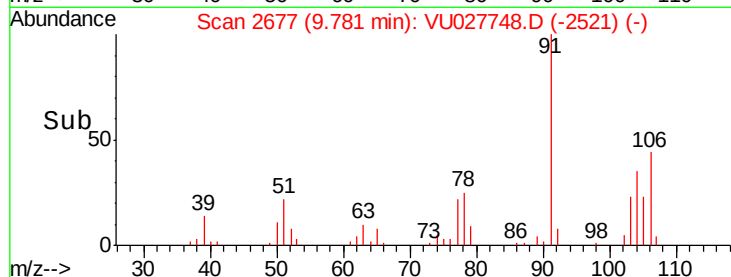
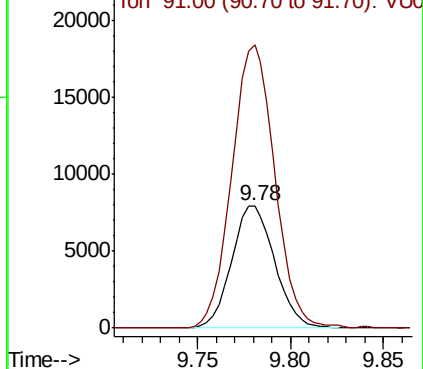
Tot Ion:106 Resp: 12823
Ion Ratio Lower Upper
106 100
91 230.7 113.4 340.2

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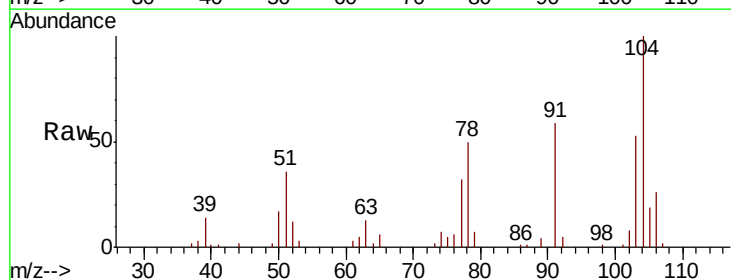


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

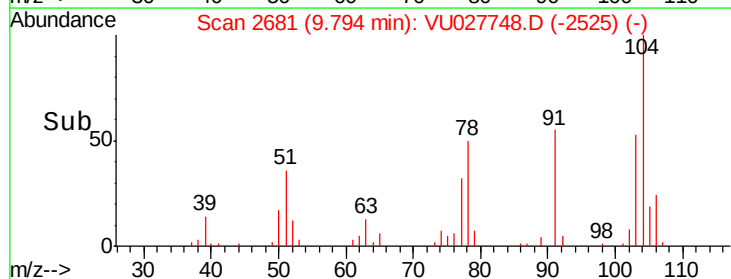
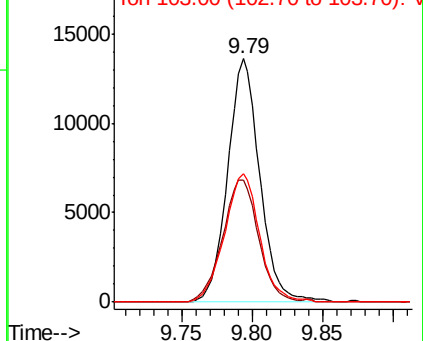


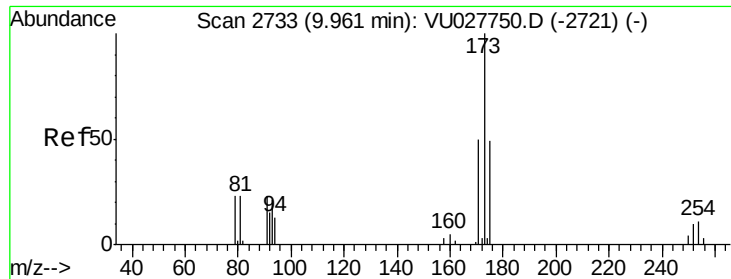
#66
Styrene
Concen: 1.869 ug/l
RT: 9.79 min Scan# 2681
Delta R.T. 0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Tgt Ion:104 Resp: 21718
Ion Ratio Lower Upper
104 100
78 55.9 45.2 67.8
103 57.4 44.8 67.2



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0
Ion 103.00 (102.70 to 103.70): V





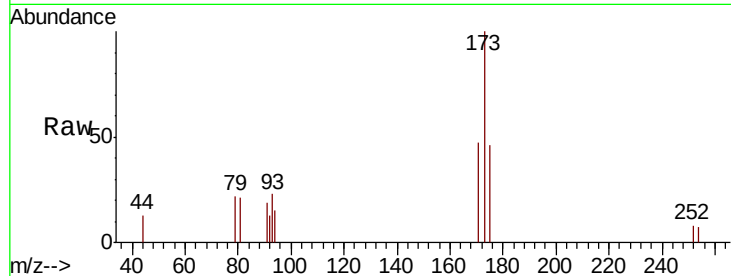
#67
Bromoform
Concen: 1.835 ug/l
RT: 9.96 min Scan# 2733
Delta R.T. 0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC002

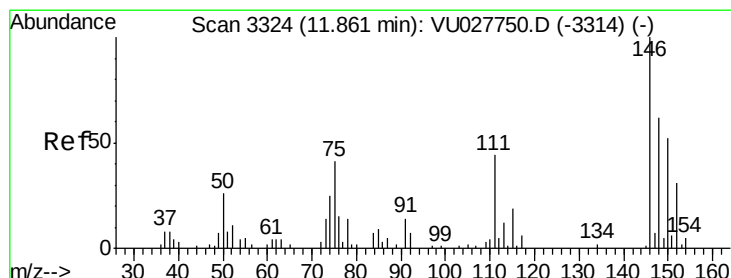
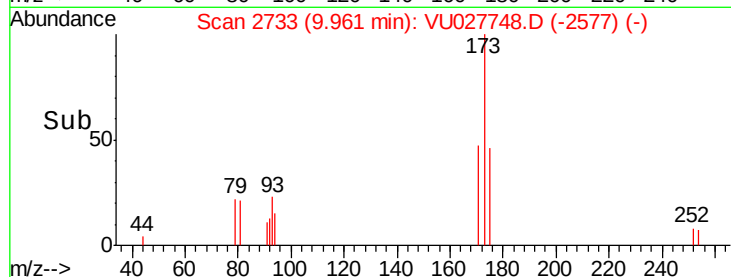
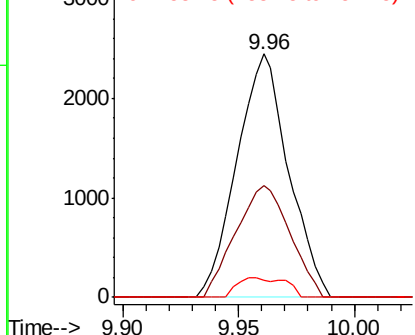
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.3	39.6	59.4
254	7.5	7.8	11.6

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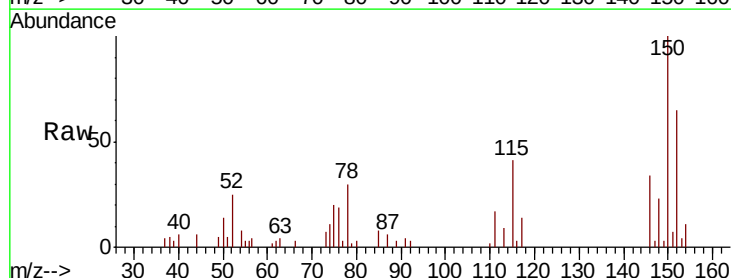


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 253.75 (253.45 to 254.45): V

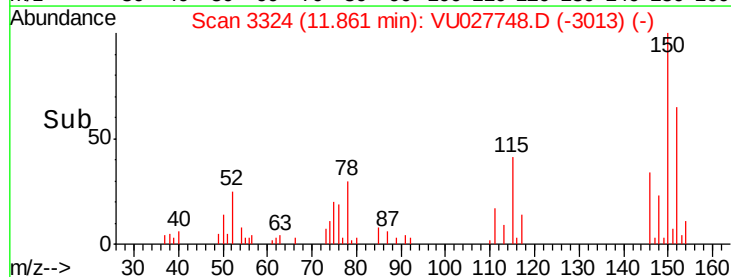
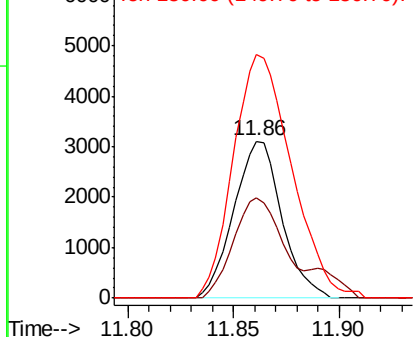


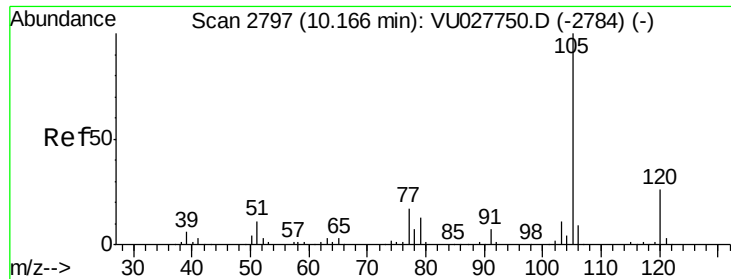
#68
1,2-Dichlorobenzene-d4
Concen: 1.835 ug/l
RT: 11.86 min Scan# 3324
Delta R.T. 0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Tgt Ion	Ratio	Lower	Upper
152	100		
115	65.6	0.0	130.2
150	189.0	0.0	650.6



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#69

Isopropylbenzene

Concen: 1.915 ug/l

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU027748.D

Acq: 22 Oct 2018 18:45

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC002

Tot Ion:105 Resp: 35996

Ion Ratio Lower Upper

105 100

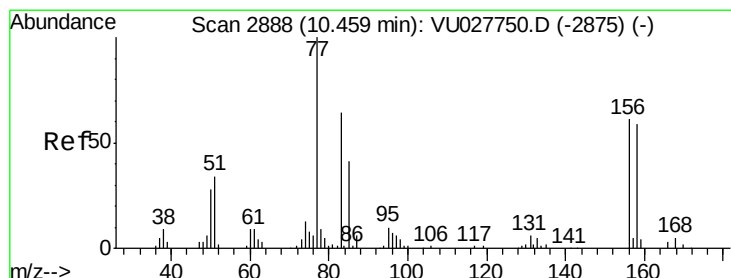
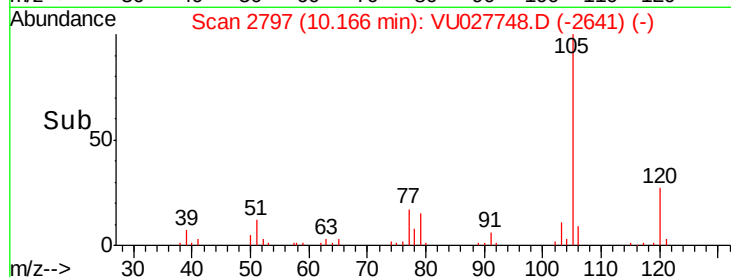
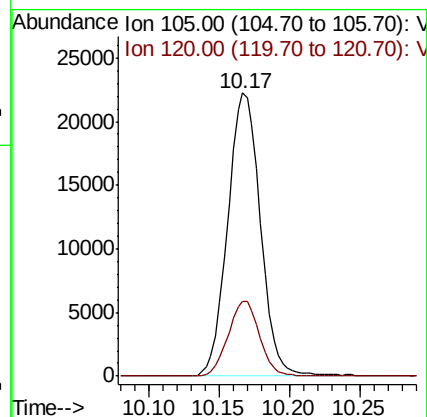
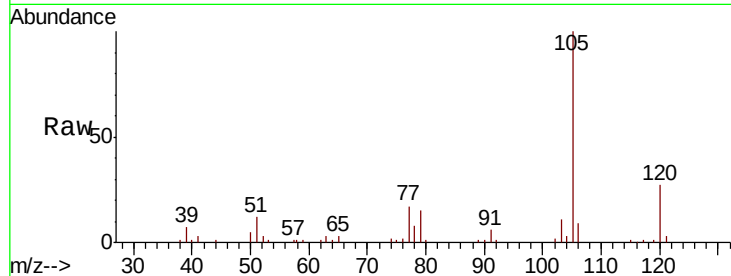
120 25.3 12.8 38.3

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#70

1,1,2,2-Tetrachloroethane

Concen: 1.949 ug/l

RT: 10.46 min Scan# 2888

Delta R.T. 0.00 min

Lab File: VU027748.D

Acq: 22 Oct 2018 18:45

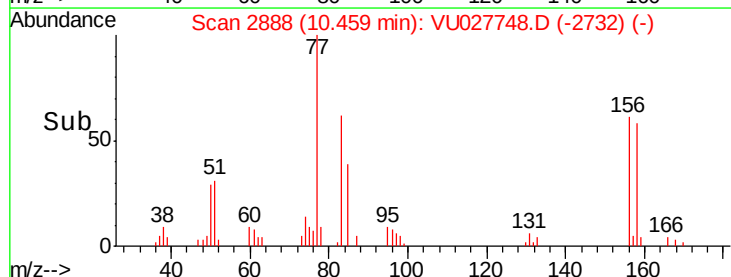
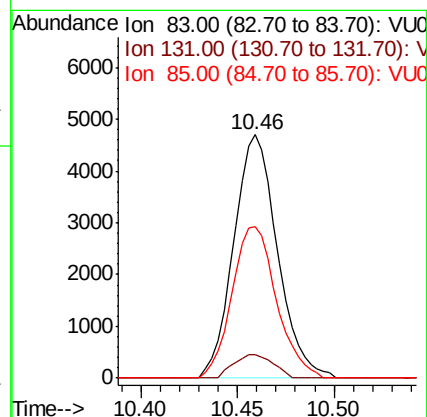
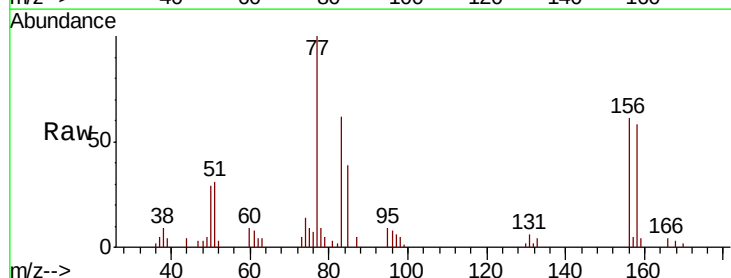
Tgt Ion: 83 Resp: 7373

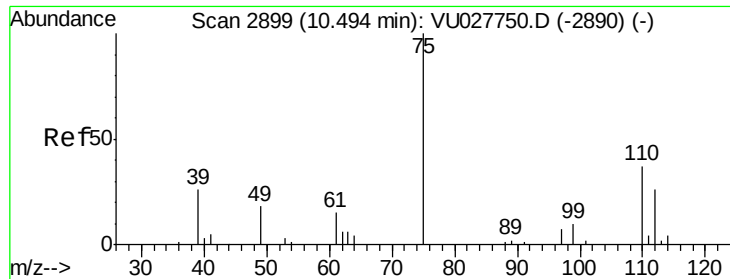
Ion Ratio Lower Upper

83 100

131 8.7 7.7 11.5

85 63.2 51.2 76.8





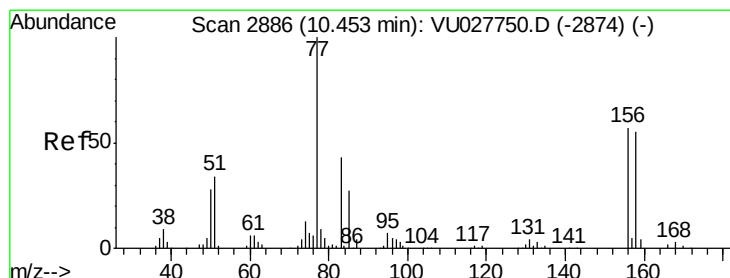
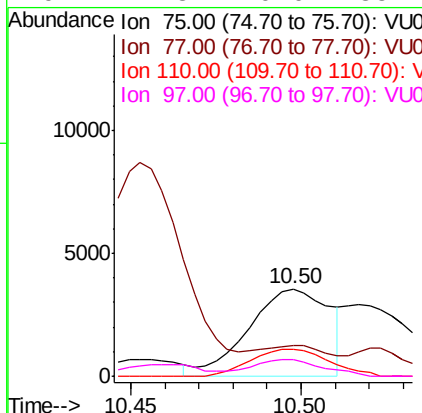
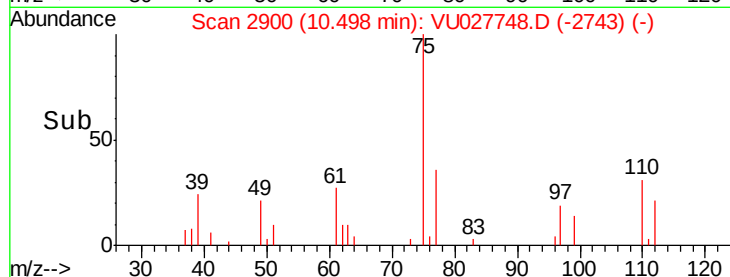
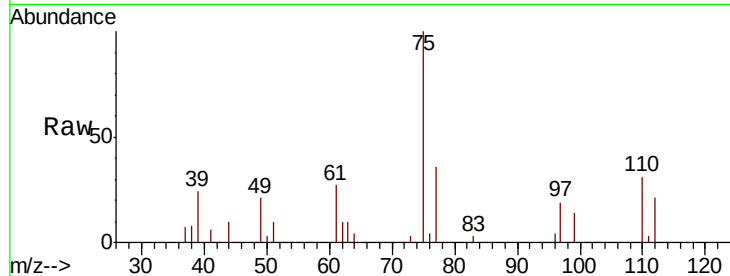
#71
1,2,3-Trichloropropane
Concen: 2.009 ug/l
RT: 10.50 min Scan# 2900
Delta R.T. 0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC002

Tot Ion:	75	Resp:	5905
Ion Ratio	Lower	Upper	
75	100		
77	20.4	0.0	0.0#
110	29.8	0.0	68.2
97	17.3	0.0	35.2

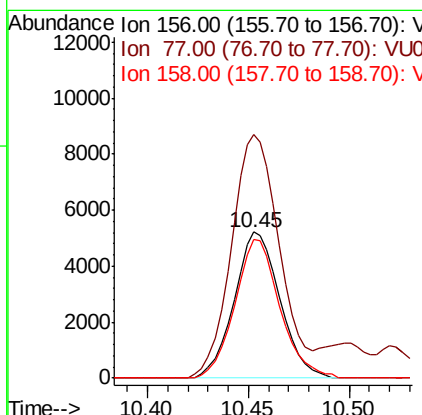
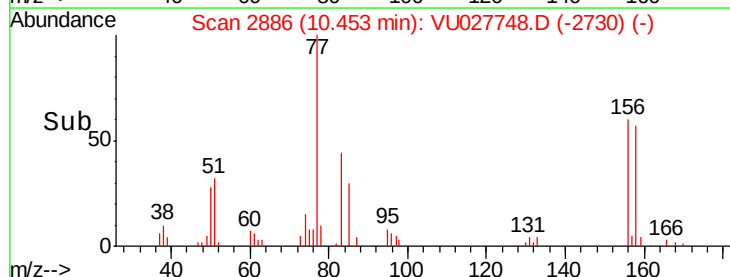
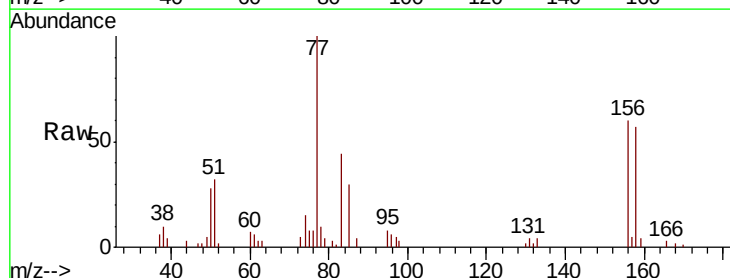
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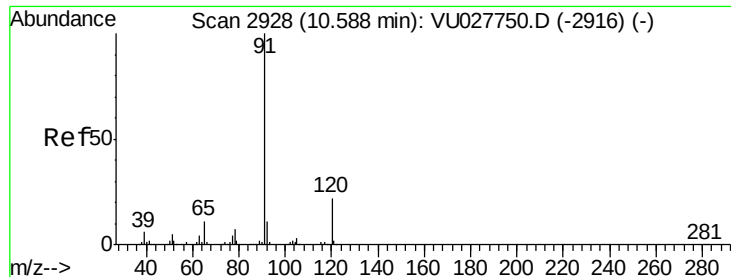
sam
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#72
Bromobenzene
Concen: 1.970 ug/l
RT: 10.45 min Scan# 2886
Delta R.T. 0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Tgt Ion:	156	Resp:	8273
Ion Ratio	Lower	Upper	
156	100		
77	174.6	0.0	349.4
158	93.5	0.0	191.4





#73

n-propylbenzene

Concen: 1.955 ug/l

RT: 10.59 min Scan# 2928

Delta R.T. 0.00 min

Lab File: VU027748.D

Acq: 22 Oct 2018 18:45

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC002

Tot Ion:120 Resp: 9415

Ion Ratio Lower Upper

120 100

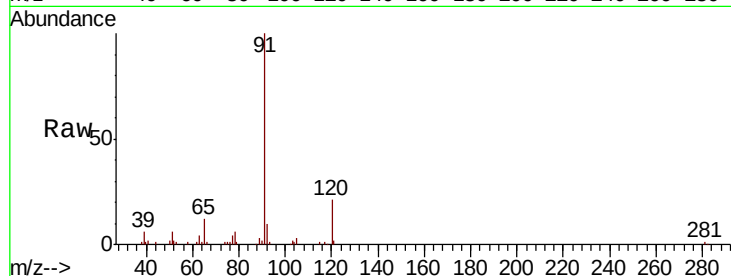
91 462.2 369.0 553.6

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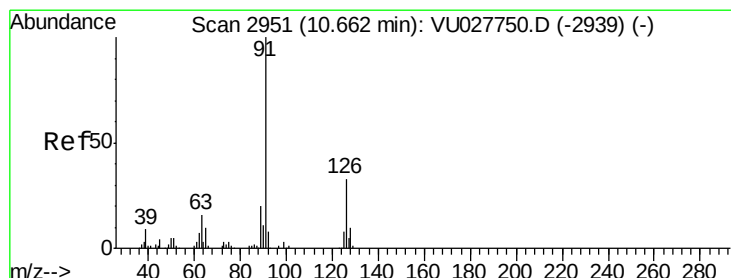
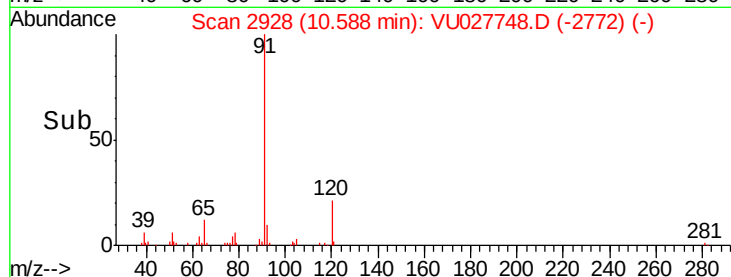
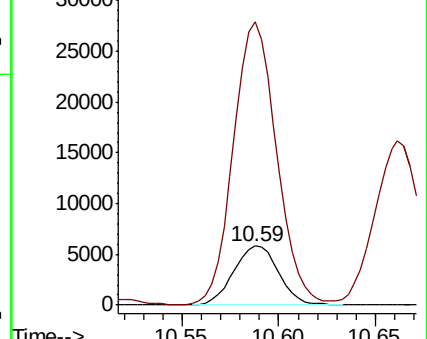
sam

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Abundance Ion 120.00 (119.70 to 120.70): V

Ion 91.00 (90.70 to 91.70): VU0



#74

2-Chlorotoluene

Concen: 1.801 ug/l

RT: 10.66 min Scan# 2951

Delta R.T. 0.00 min

Lab File: VU027748.D

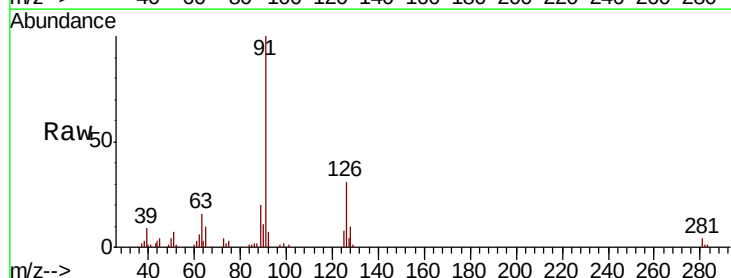
Acq: 22 Oct 2018 18:45

Tgt Ion:126 Resp: 7742

Ion Ratio Lower Upper

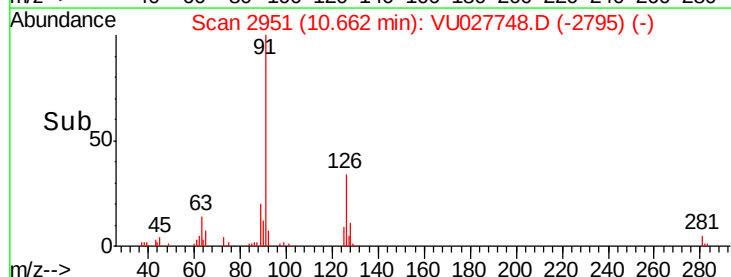
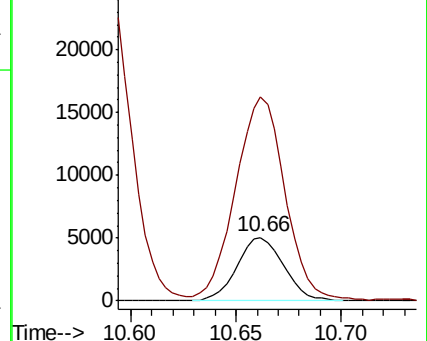
126 100

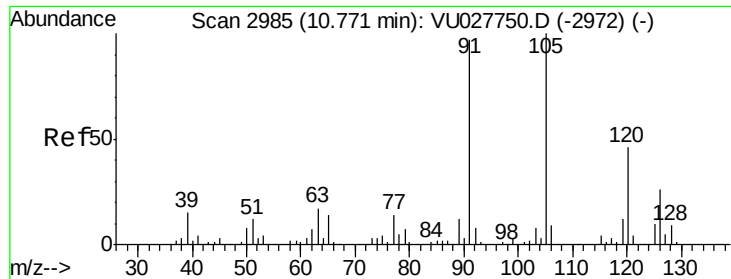
91 344.0 0.0 628.8



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0





#75

1,3,5-Trimethylbenzene

Concen: 1.905 ug/l

RT: 10.77 min Scan# 2986

Delta R.T. 0.00 min

Lab File: VU027748.D

Acq: 22 Oct 2018 18:45

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC002

Tot Ion:105 Resp: 29876

Ion Ratio Lower Upper

105 100

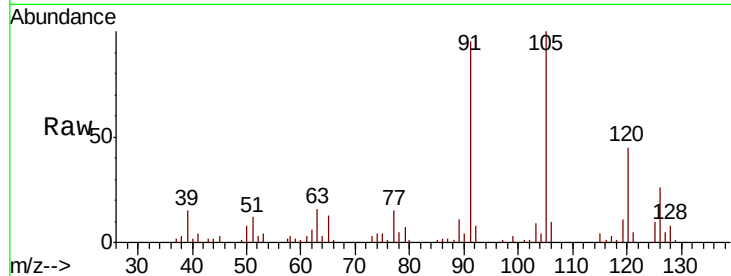
120 46.1 37.2 55.8

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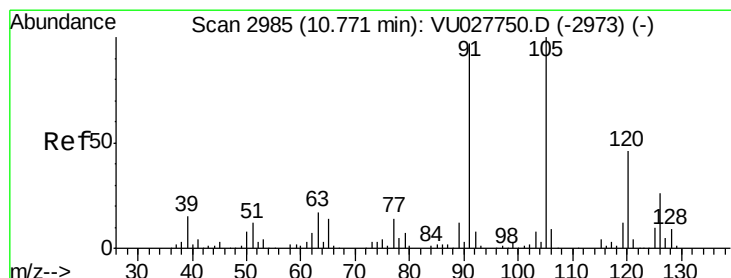
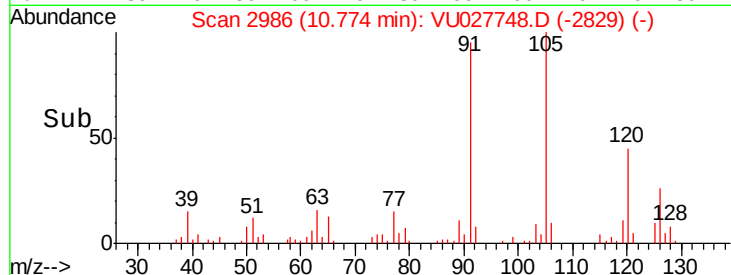
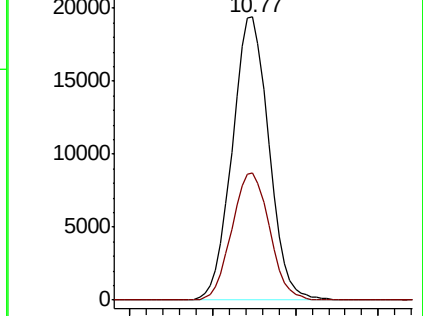
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#76

4-Chlorotoluene

Concen: 1.918 ug/l

RT: 10.77 min Scan# 2986

Delta R.T. 0.00 min

Lab File: VU027748.D

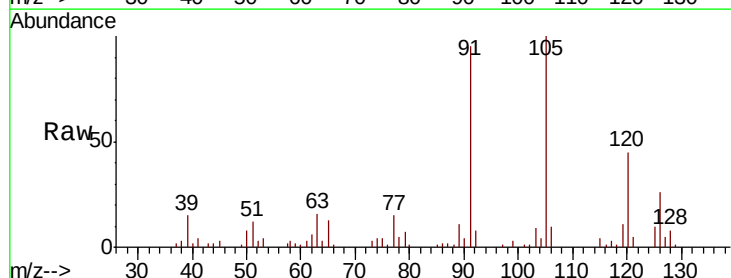
Acq: 22 Oct 2018 18:45

Tgt Ion:126 Resp: 7943

Ion Ratio Lower Upper

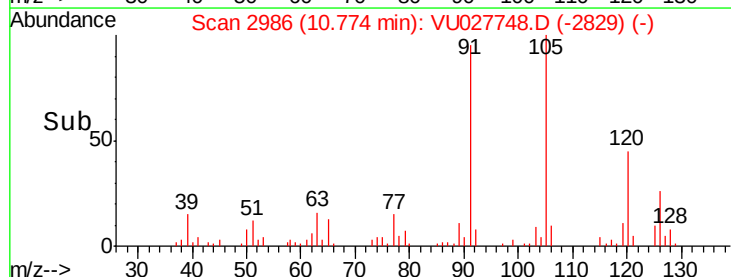
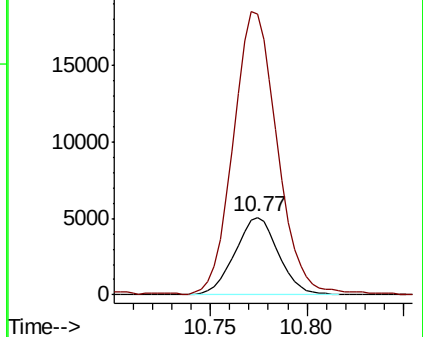
126 100

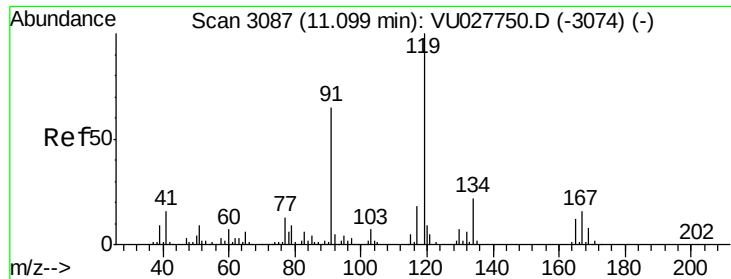
91 370.2 0.0 734.4



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0





#77

tert-Butylbenzene

Concen: 1.875 ug/l

RT: 11.10 min Scan# 3087

Delta R.T. 0.00 min

Lab File: VU027748.D

Acq: 22 Oct 2018 18:45

Instrument :

MSVOA_U

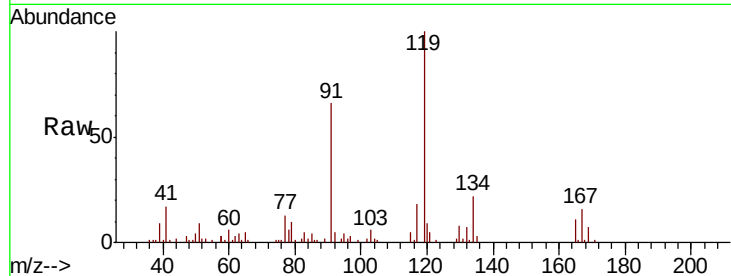
ClientSampleId :

VSTDIC002

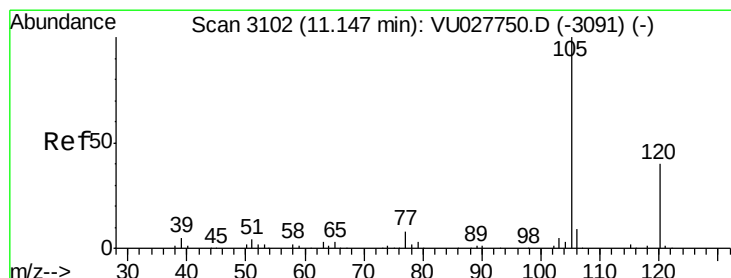
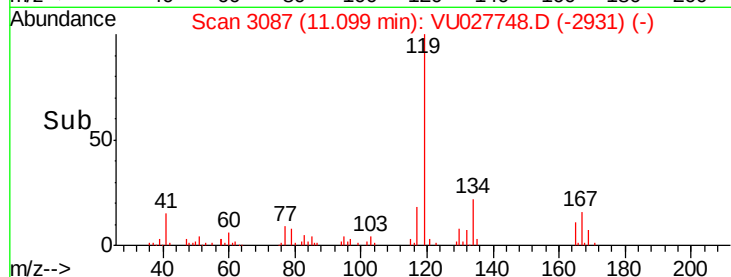
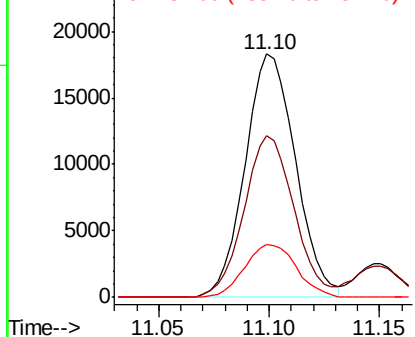
Tot Ion:	119	Resp:	29160
Ion Ratio	Lower	Upper	
119	100		
91	65.2	31.8	95.4
134	22.2	17.7	26.5

Manual Integrations
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Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V



#78

1,2,4-Trimethylbenzene

Concen: 1.920 ug/l

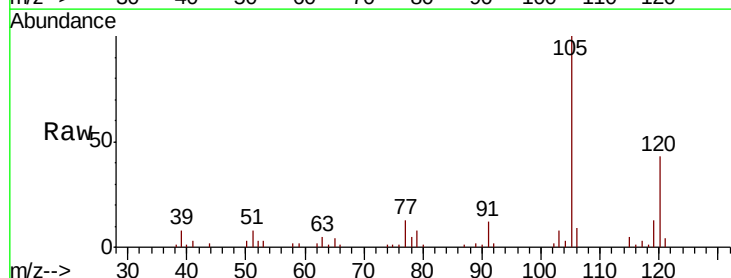
RT: 11.15 min Scan# 3103

Delta R.T. 0.00 min

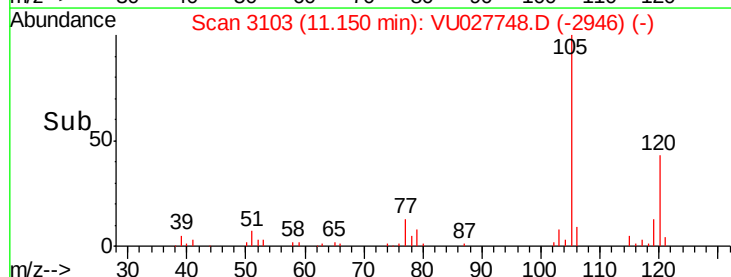
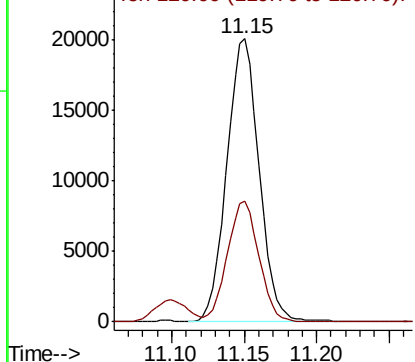
Lab File: VU027748.D

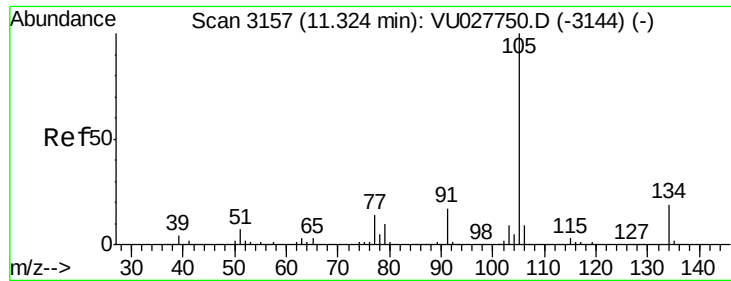
Acq: 22 Oct 2018 18:45

Tgt Ion:	105	Resp:	31031
Ion Ratio	Lower	Upper	
105	100		
120	41.3	21.6	64.6



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#79

sec-Butylbenzene

Concen: 1.933 ug/l

RT: 11.32 min Scan# 3157

Delta R.T. 0.00 min

Lab File: VU027748.D

Acq: 22 Oct 2018 18:45

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC002

Tot Ion: 105 Resp: 38482

Ion Ratio Lower Upper

105 100

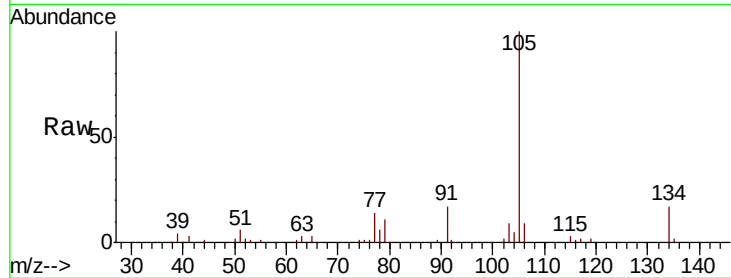
134 18.2 15.2 22.8

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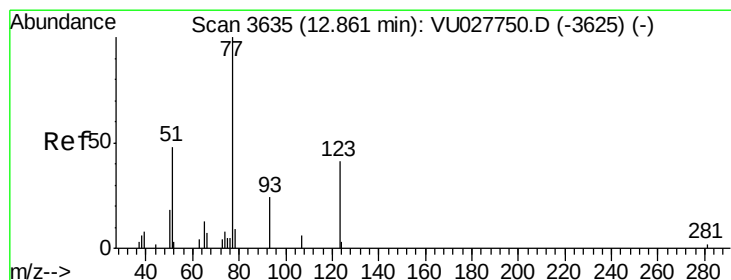
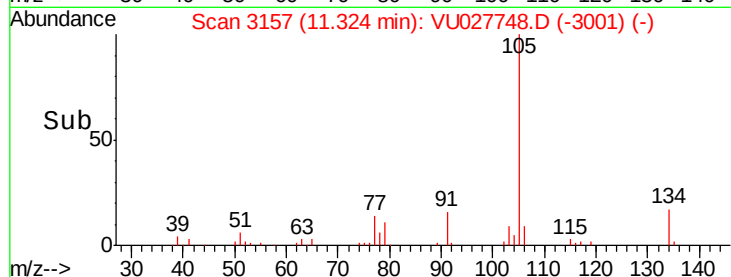
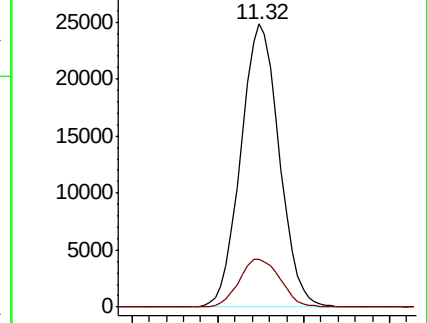
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#80

Nitrobenzene

Concen: 6.661 ug/l

RT: 12.87 min Scan# 3638

Delta R.T. 0.01 min

Lab File: VU027748.D

Acq: 22 Oct 2018 18:45

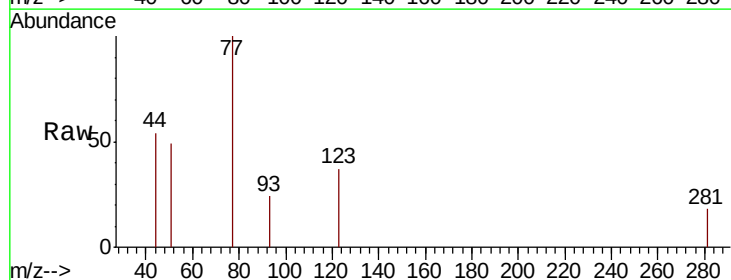
Tgt Ion: 77 Resp: 1171

Ion Ratio Lower Upper

77 100

123 37.0 16.9 59.9

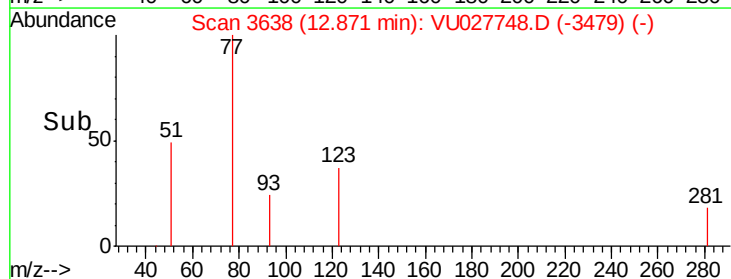
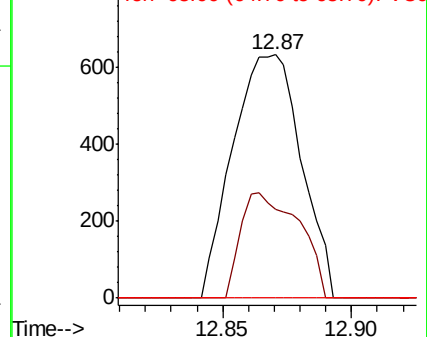
65 0.0 13.1 16.7#

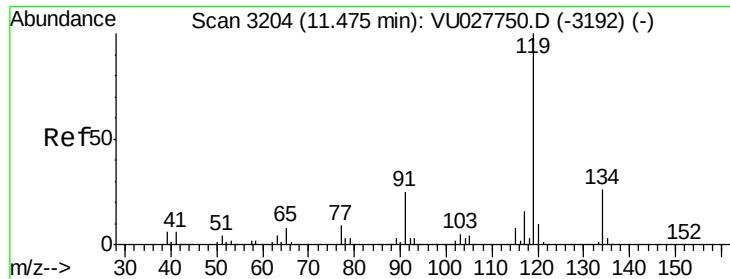


Abundance Ion 77.00 (76.70 to 77.70): VU0

Ion 123.00 (122.70 to 123.70): V

Ion 65.00 (64.70 to 65.70): VU0





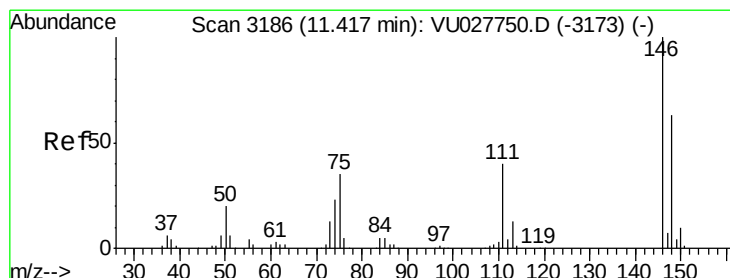
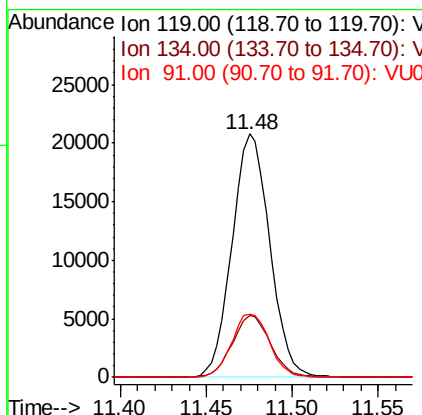
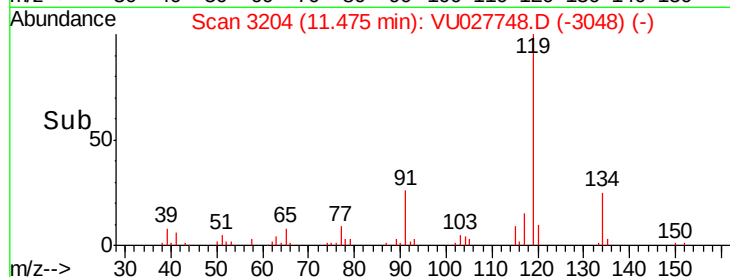
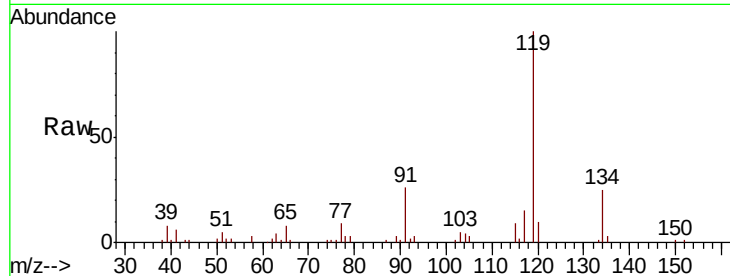
#81
 p-Isopropyltoluene
 Concen: 1.956 ug/l
 RT: 11.48 min Scan# 3204
 Delta R.T. 0.00 min
 Lab File: VU027748.D
 Acq: 22 Oct 2018 18:45

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.7	20.3	30.5
91	26.0	20.2	30.4

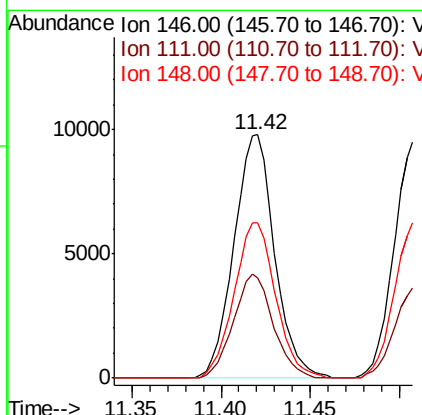
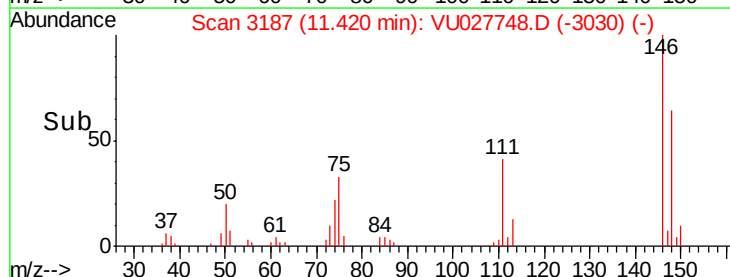
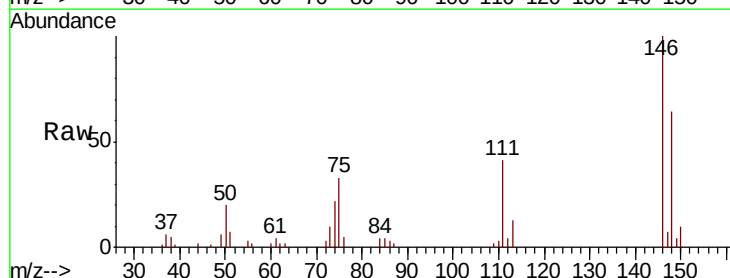
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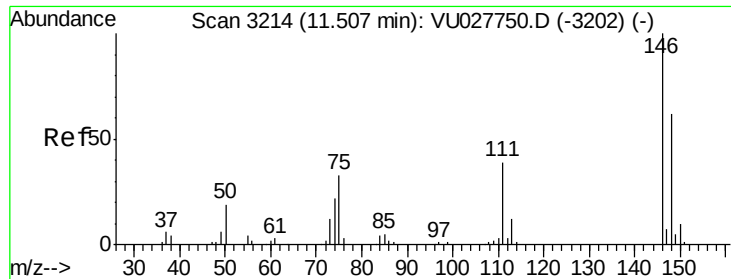
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#82
 1,3-Dichlorobenzene
 Concen: 1.926 ug/l
 RT: 11.42 min Scan# 3187
 Delta R.T. 0.00 min
 Lab File: VU027748.D
 Acq: 22 Oct 2018 18:45

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.6	32.7	49.1
148	65.3	50.6	75.8





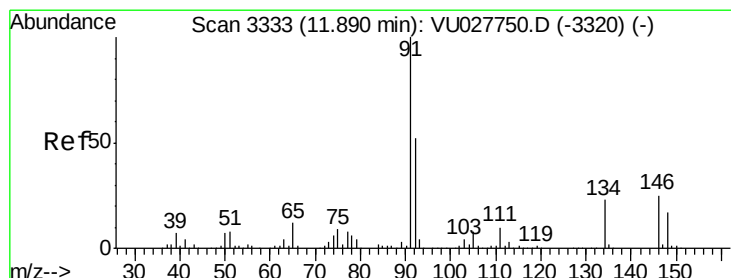
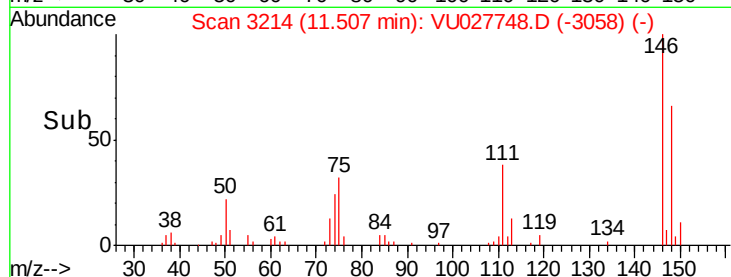
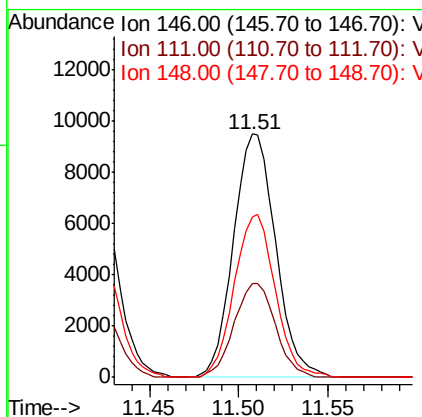
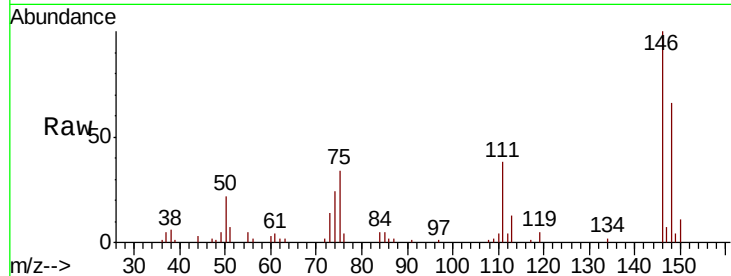
#83
 1,4-Dichlorobenzene
 Concen: 1.958 ug/l
 RT: 11.51 min Scan# 3214
 Delta R.T. 0.00 min
 Lab File: VU027748.D
 Acq: 22 Oct 2018 18:45

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.8	32.0	48.0
148	64.9	50.9	76.3

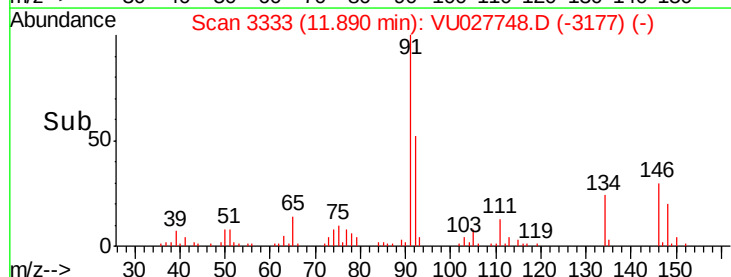
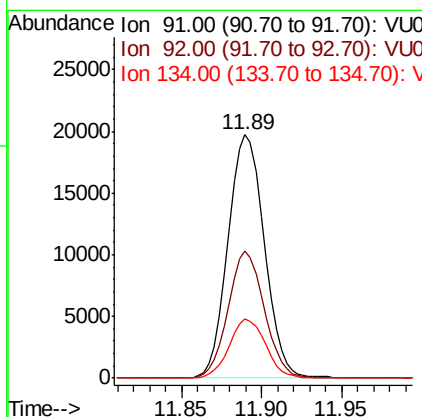
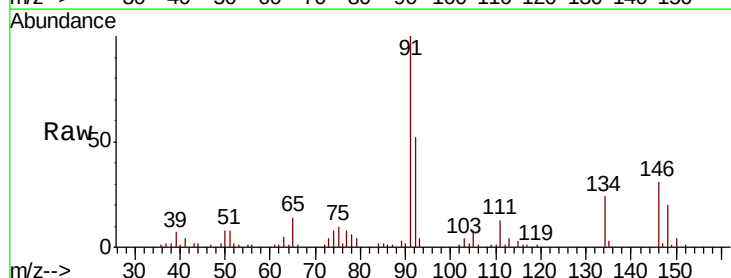
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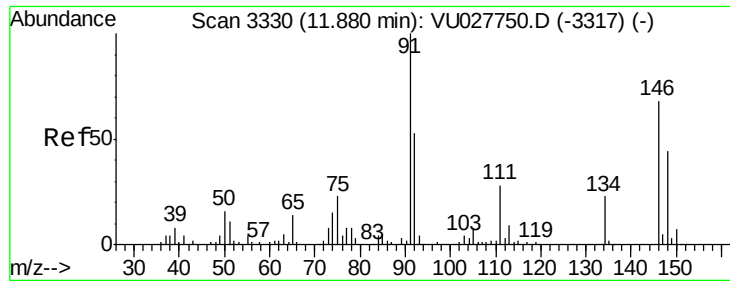
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#84
 n-Butylbenzene
 Concen: 1.999 ug/l
 RT: 11.89 min Scan# 3333
 Delta R.T. 0.00 min
 Lab File: VU027748.D
 Acq: 22 Oct 2018 18:45

Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.5	42.1	63.1
134	24.1	18.6	28.0





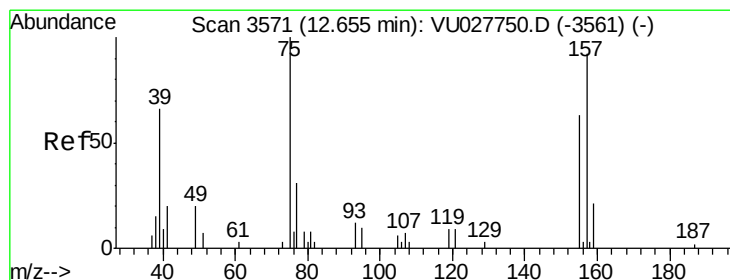
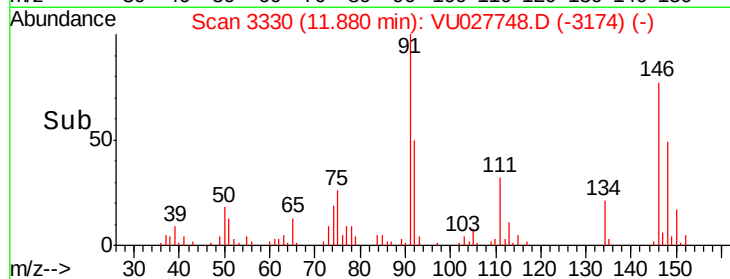
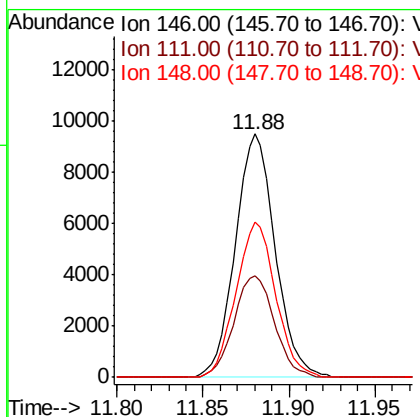
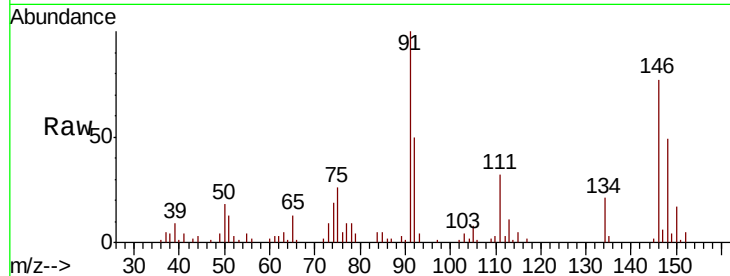
#85
 1,2-Dichlorobenzene
 Concen: 1.981 ug/l
 RT: 11.88 min Scan# 3330
 Delta R.T. 0.00 min
 Lab File: VU027748.D
 Acq: 22 Oct 2018 18:45

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.2	63.6
148	63.4	32.2	96.6

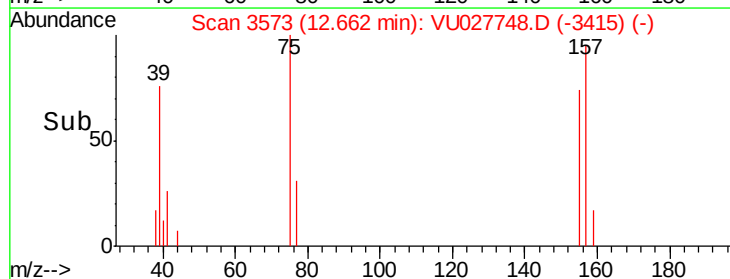
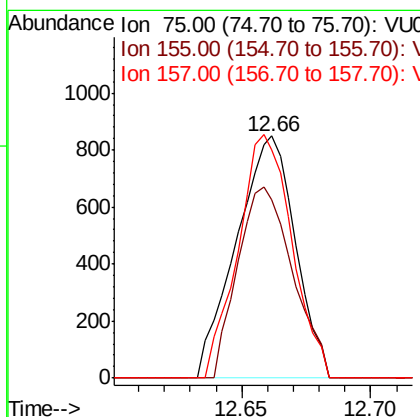
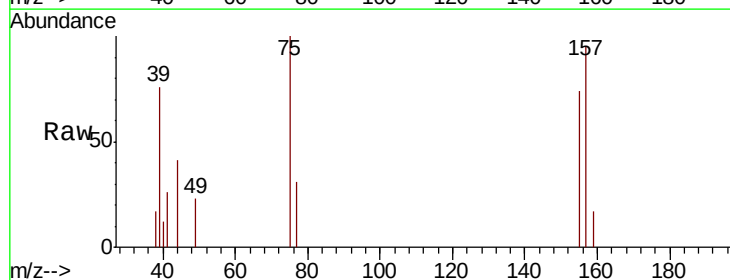
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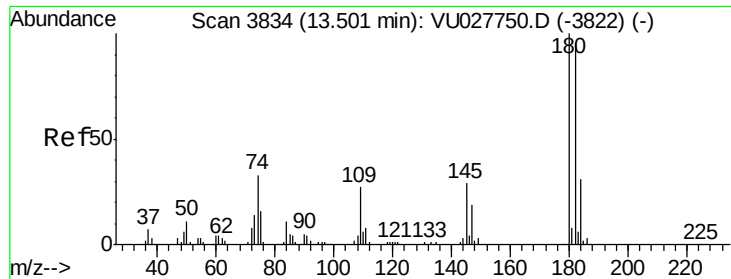
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#86
 1,2-Dibromo-3-Chloropropane
 Concen: 2.016 ug/l
 RT: 12.66 min Scan# 3573
 Delta R.T. 0.01 min
 Lab File: VU027748.D
 Acq: 22 Oct 2018 18:45

Tgt Ion	Ratio	Lower	Upper
75	100		
155	73.9	55.5	83.3
157	92.0	71.0	106.4





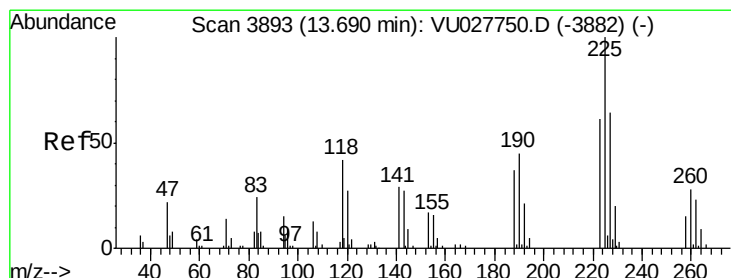
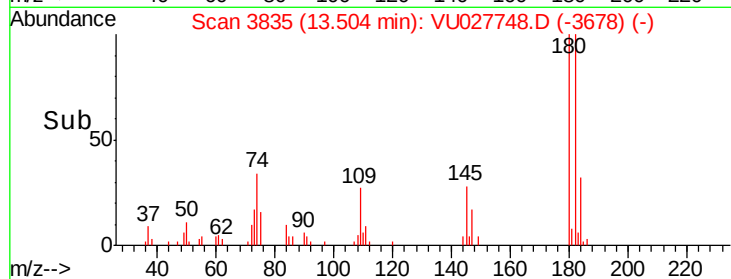
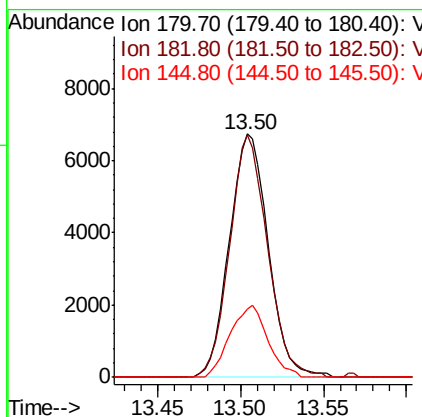
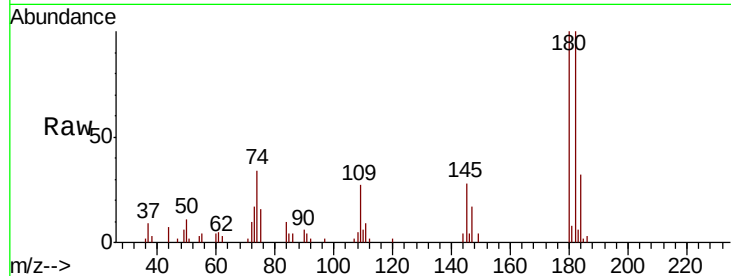
#87
 1,2,4-Trichlorobenzene
 Concen: 1.948 ug/l
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.00 min
 Lab File: VU027748.D
 Acq: 22 Oct 2018 18:45

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC002

Tot Ion:	180	Resp:	10994
Ion Ratio	Lower	Upper	
180	100		
182	96.8	75.9	113.9
145	28.4	23.6	35.4

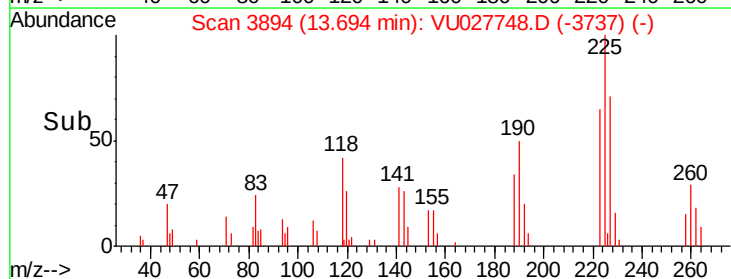
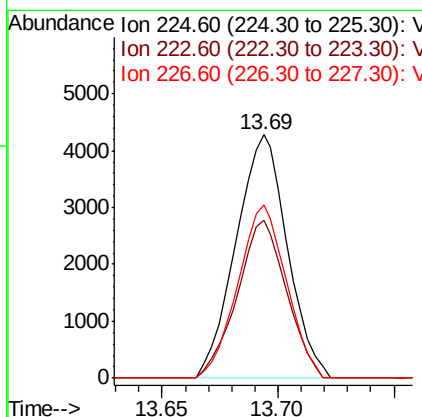
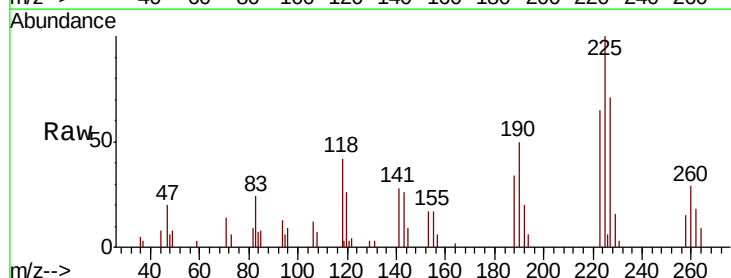
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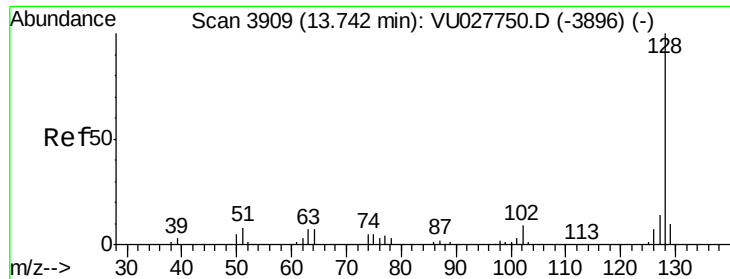
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#88
 Hexachlorobutadiene
 Concen: 1.956 ug/l
 RT: 13.69 min Scan# 3894
 Delta R.T. 0.00 min
 Lab File: VU027748.D
 Acq: 22 Oct 2018 18:45

Tgt Ion:	225	Resp:	6574
Ion Ratio	Lower	Upper	
225	100		
223	62.2	49.6	74.4
227	67.3	51.1	76.7





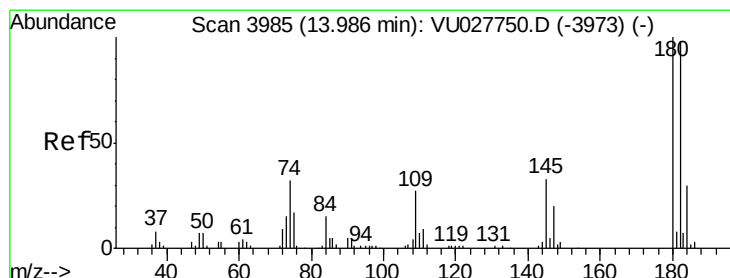
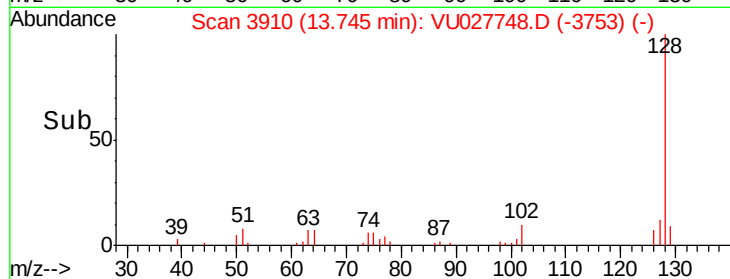
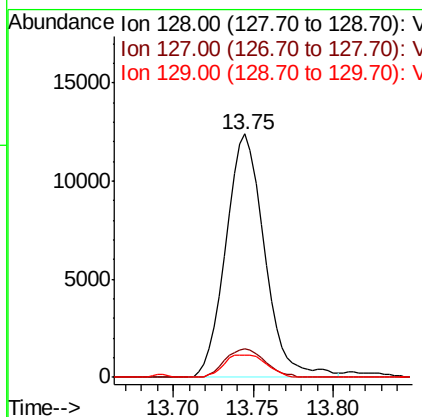
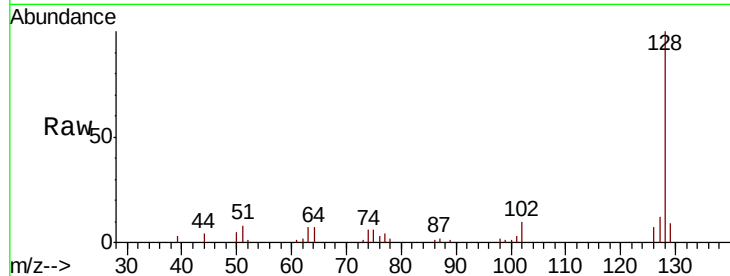
#89
Naphthalene
Concen: 1.841 ug/l
RT: 13.75 min Scan# 3910
Delta R.T. 0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.7	16.1
129	10.0	8.5	12.7

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#90
1,2,3-Trichlorobenzene
Concen: 2.031 ug/l
RT: 13.99 min Scan# 3985
Delta R.T. 0.00 min
Lab File: VU027748.D
Acq: 22 Oct 2018 18:45

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.0	77.0	115.6
145	31.6	25.4	38.2

