

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041519\
 Data File : VU031197.D
 Acq On : 15 Apr 2019 19:14
 Operator : JC/SP
 Sample : VSTDIC0.5
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 4/16/2019 3:23:06 PM

Quant Time: Apr 16 04:25:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U041519DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Apr 16 04:10:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.74	96	29985	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	10484	0.98	ug/l	0.00
Spiked Amount 1.000			Recovery	=	98.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	10825	1.06	ug/l	0.00
Spiked Amount 1.000			Recovery	=	106.00%	
Target Compounds						
					Ovalue	
2) Dichlorodifluoromethane	1.20	85	6964	0.573	ug/l	99
3) Chloromethane	1.32	50	7441	0.518	ug/l	98
4) Vinyl Chloride	1.40	62	7125	0.520	ug/l	95
5) Bromomethane	1.63	94	3930	0.580	ug/l	84
6) Chloroethane	1.70	64	5568	0.698	ug/l	98
7) Trichlorofluoromethane	1.89	101	10530	0.644	ug/l	95
8) 1,1,2-Trichloro-1,2,2-trif	2.29	101	5028	0.611	ug/l	95
9) 1,1-Dichloroethene	2.28	96	5173	0.634	ug/l	91
10) Iodomethane	2.41	142	5888	0.554	ug/l	94
11) Allyl Chloride	2.59	41	10308	0.590	ug/l	91
12) Acrylonitrile	2.93	53	3098	1.168	ug/l	97
13) Acetone	2.32	43	8764	3.601	ug/l	91
14) Carbon Disulfide	2.48	76	19125	0.638	ug/l	98
15) Methylene Chloride	2.70	84	8267	0.743	ug/l	92
16) trans-1,2-Dichloroethene	2.98	96	6034	0.654	ug/l	96
17) 1,1-Dichloroethane	3.45	63	9420	0.521	ug/l	99
18) 2-Butanone	4.29	43	6612m	2.132	ug/l	
19) Cyclohexane	4.99	56	5867	0.403	ug/l	94
20) Methylcyclohexane	6.41	83	5876	0.465	ug/l	96
21) 2,2-Dichloropropane	4.22	77	6899	0.494	ug/l	99
22) cis-1,2-Dichloroethene	4.23	96	4767	0.512	ug/l	93
23) Diethyl Ether	2.10	59	4891	0.596	ug/l	94
24) tert-Butyl Alcohol	2.83	59	5054	5.269	ug/l	99
25) Methyl tert-Butyl Ether	3.00	73	15168	0.595	ug/l	92
26) Bromochloromethane	4.55	128	2211	0.548	ug/l	86
27) Chloroform	4.67	83	8987	0.525	ug/l	100
28) 1,1,1-Trichloroethane	4.91	97	7722	0.548	ug/l	96
29) 1,1-Dichloropropene	5.14	75	6013	0.487	ug/l	96
30) Carbon Tetrachloride	5.13	117	6735	0.547	ug/l	88
31) Isopropyl Ether	3.57	45	13217	0.450	ug/l	98
32) Ethyl-t-butyl ether	4.08	59	10610	0.445	ug/l #	61
33) Tert-Amyl methyl ether	5.58	73	8604	0.429	ug/l #	95
34) Propionitrile	4.34	54	1978m	2.566	ug/l	
35) Benzene	5.39	78	17694	0.483	ug/l	97
36) 1,2-Dichloroethane	5.41	62	5914	0.508	ug/l	99
37) Trichloroethene	6.19	130	6132	0.688	ug/l	98
38) 1,2-Dichloropropane	6.43	63	4812	0.461	ug/l	93
39) Methacrylonitrile	4.55	41	1532m	0.402	ug/l	
40) Methyl acrylate	4.45	55	1451	0.310	ug/l #	70
41) Tetrahydrofuran	4.65	42	1516	0.739	ug/l #	82
42) 1-Chlorobutane	5.06	56	9041	0.482	ug/l	99

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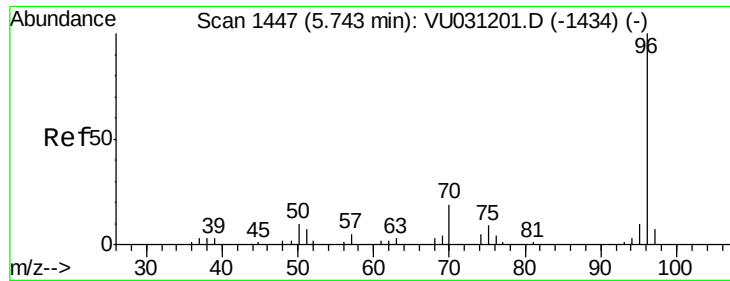
Manual Integrations
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Quant Time: Apr 16 04:25:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U041519DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Apr 16 04:10:13 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Dibromomethane	6.56	93	2472	0.504	ug/l	94
44) Bromodichloromethane	6.76	83	6308	0.493	ug/l	98
45) 4-Methyl-2-Pentanone	7.47	43	12759	1.831	ug/l	96
46) t-1,4-Dichloro-2-butene	10.53	75	2040m	0.850	ug/l	
47) Methyl methacrylate	6.63	69	3658	0.819	ug/l #	84
48) Ethyl methacrylate	8.03	69	2738	0.327	ug/l	75
49) Toluene	7.64	92	8755	0.438	ug/l	98
50) t-1,3-Dichloropropene	7.89	75	4701	0.428	ug/l	97
51) cis-1,3-Dichloropropene	7.27	75	5590	0.424	ug/l	95
52) 1,1,2-Trichloroethane	8.07	97	3660	0.524	ug/l	95
53) 1,3-Dichloropropane	8.24	76	5648	0.462	ug/l	92
54) 2-Hexanone	8.37	43	7708	1.667	ug/l	90
55) Dibromochloromethane	8.48	129	4239	0.534	ug/l	99
56) 1,2-Dibromoethane	8.59	107	2939	0.466	ug/l	93
58) Tetrachloroethene	8.22	164	4490	0.567	ug/l #	86
59) Chlorobenzene	9.12	112	10083	0.461	ug/l	99
60) 1,1,1,2-Tetrachloroethane	9.21	131	3888	0.471	ug/l	96
61) Pentachloroethane	11.10	117	3519	0.557	ug/l	96
62) Hexachloroethane	12.14	117	3244	0.540	ug/l	93
63) Ethyl Benzene	9.25	91	14978	0.414	ug/l	100
64) m/p-Xylenes	9.38	106	10587	0.800	ug/l	94
65) o-Xylene	9.78	106	5326	0.414	ug/l	95
66) Styrene	9.79	104	7886	0.355	ug/l	96
67) Bromoform	9.95	173	2347	0.514	ug/l #	97
69) Isopropylbenzene	10.16	105	13954	0.407	ug/l	97
70) 1,1,2,2-Tetrachloroethane	10.46	83	4651	0.506	ug/l	98
71) 1,2,3-Trichloropropane	10.49	75	3287m	0.470	ug/l	
72) Bromobenzene	10.45	156	4074	0.470	ug/l	94
73) n-propylbenzene	10.59	120	3468	0.379	ug/l	86
74) 2-Chlorotoluene	10.66	126	3246	0.389	ug/l	76
75) 1,3,5-Trimethylbenzene	10.77	105	10957	0.377	ug/l	97
76) 4-Chlorotoluene	10.77	126	3303	0.387	ug/l	89
77) tert-Butylbenzene	11.10	119	12177	0.430	ug/l	99
78) 1,2,4-Trimethylbenzene	11.15	105	10846	0.366	ug/l	99
79) sec-Butylbenzene	11.32	105	15261	0.396	ug/l	99
80) Nitrobenzene	12.89	77	93	0.340	ug/l #	44
81) p-Isopropyltoluene	11.47	119	11690	0.387	ug/l	96
82) 1,3-Dichlorobenzene	11.42	146	8238	0.480	ug/l	99
83) 1,4-Dichlorobenzene	11.51	146	7129	0.420	ug/l	91
84) n-Butylbenzene	11.89	91	11392	0.376	ug/l	95
85) 1,2-Dichlorobenzene	11.88	146	7444	0.456	ug/l	97
86) 1,2-Dibromo-3-Chloropropan	12.66	75	451	0.314	ug/l #	78
87) 1,2,4-Trichlorobenzene	13.51	180	4080	0.418	ug/l	91
88) Hexachlorobutadiene	13.69	225	3478	0.594	ug/l	95
89) Naphthalene	13.75	128	5719	0.333	ug/l	97
90) 1,2,3-Trichlorobenzene	13.99	180	4461	0.460	ug/l	98

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



#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1447

Delta R.T. 0.00 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

Instrument :

MSVOA_U

ClientSampleId :

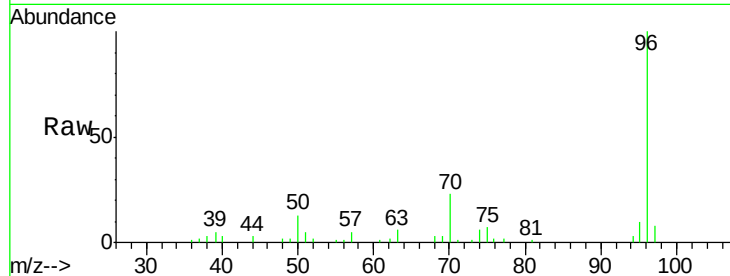
VSTDIC0.5

Tot Ion: 96 Resp: 29985

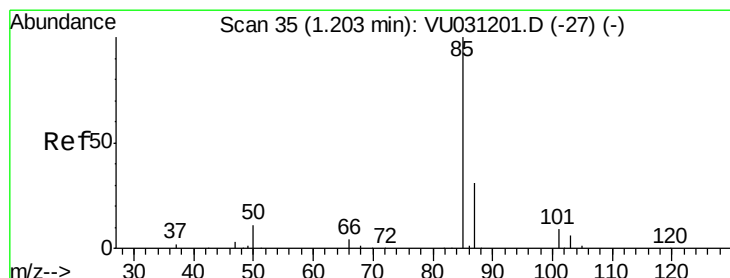
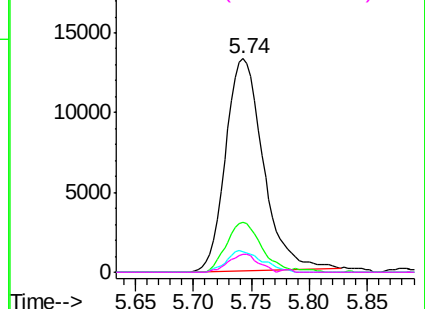
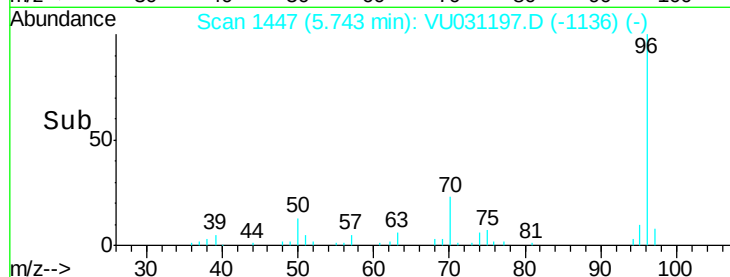
Ion	Ratio	Lower	Upper
96	100		
70	20.2	18.4	27.6
95	9.7	7.6	11.4
97	6.8	0.0	0.0#

Manual Integrations
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Abundance Ion 96.00 (95.70 to 96.70): VU031197.D (-1136) (-)



#2

Dichlorodifluoromethane

Concen: 0.573 ug/l

RT: 1.20 min Scan# 35

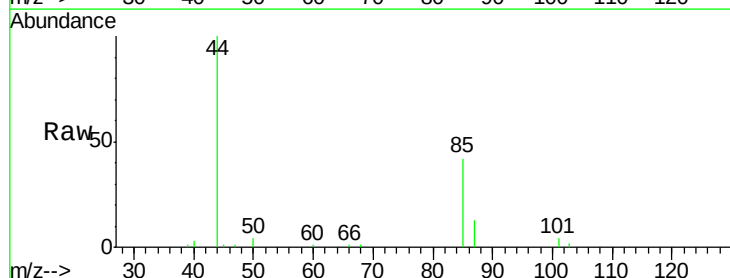
Delta R.T. 0.00 min

Lab File: VU031197.D

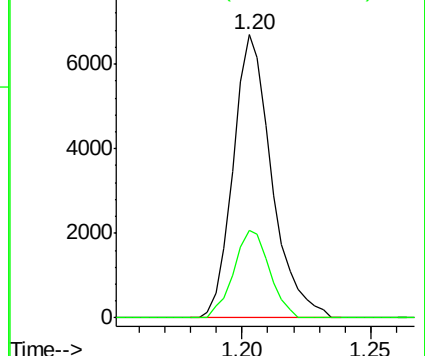
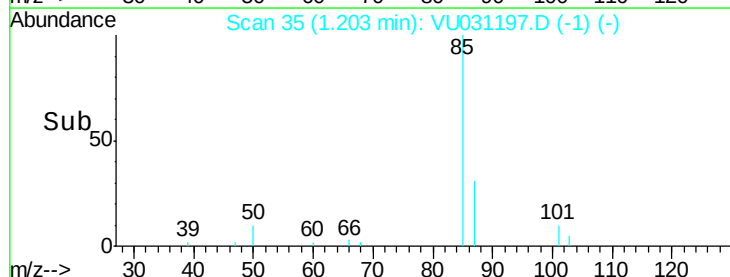
Acq: 15 Apr 2019 19:14

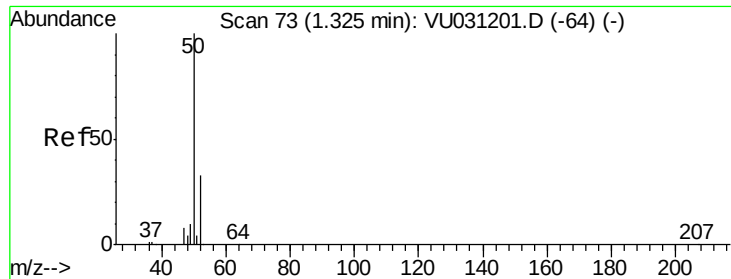
Tgt Ion: 85 Resp: 6964

Ion	Ratio	Lower	Upper
85	100		
87	31.1	15.8	47.3



Abundance Ion 85.00 (84.70 to 85.70): VU031197.D (-1) (-)





#3

Chloromethane

Concen: 0.518 ug/l

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tot Ion: 50 Resp: 7441

Ion Ratio Lower Upper

50 100

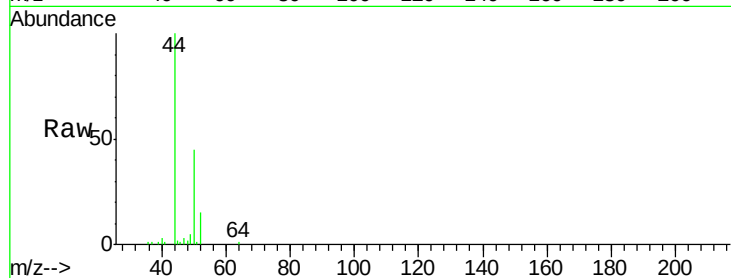
52 33.9 26.2 39.2

Manual Integrations

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Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

8000

6000

4000

2000

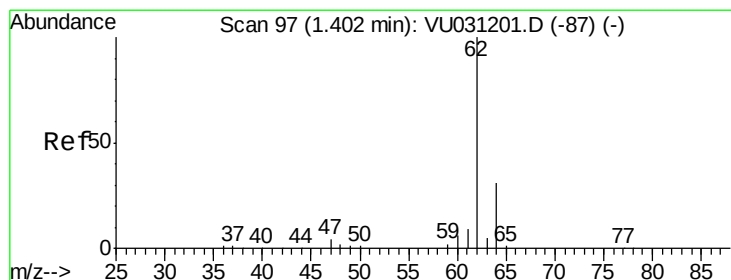
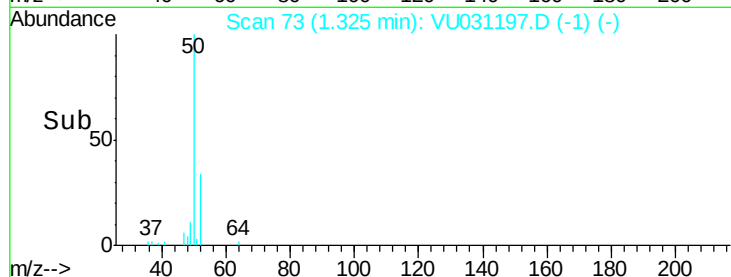
0

1.30

1.32

1.35

Time-->



#4

Vinyl Chloride

Concen: 0.520 ug/l

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU031197.D

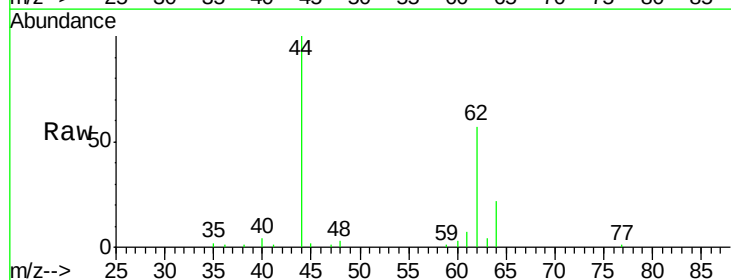
Acq: 15 Apr 2019 19:14

Tgt Ion: 62 Resp: 7125

Ion Ratio Lower Upper

62 100

64 28.6 25.0 37.6



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

6000

4000

2000

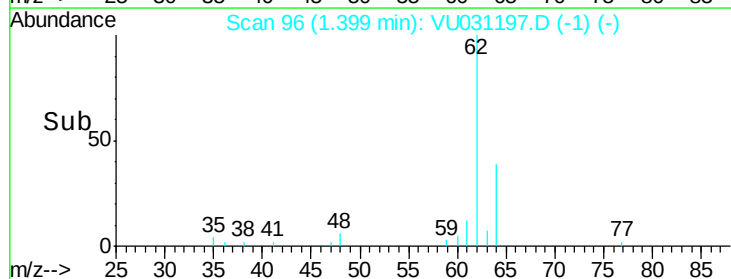
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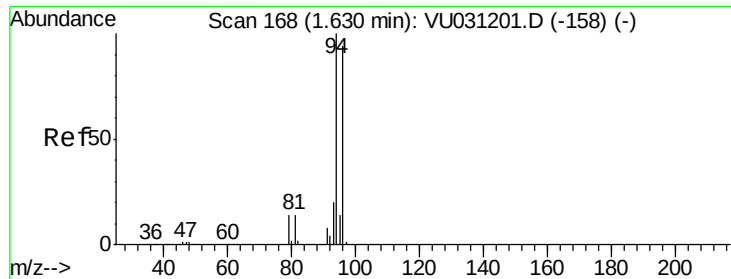
1.35

1.40

1.45

Time-->





#5

Bromomethane

Concen: 0.580 ug/l

RT: 1.63 min Scan# 168

Delta R.T. 0.00 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tot Ion: 94 Resp: 3930

Ion Ratio Lower Upper

94 100

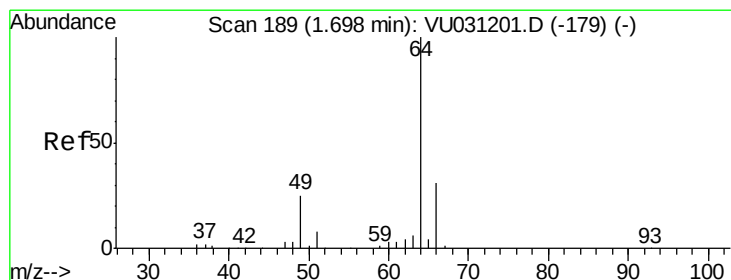
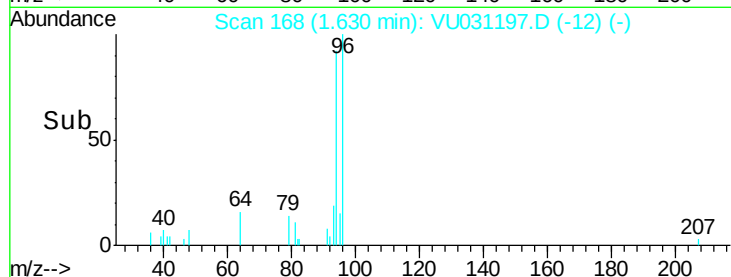
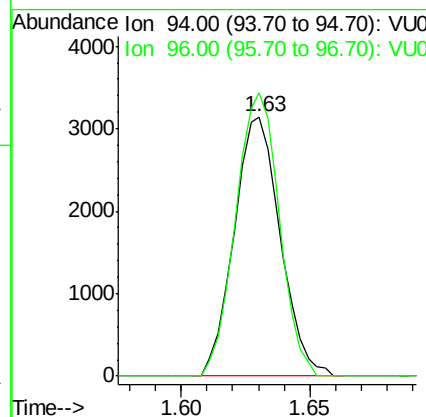
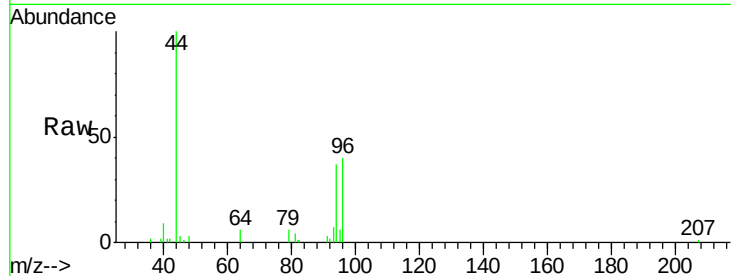
96 109.1 75.0 112.6

Manual Integrations

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#6

Chloroethane

Concen: 0.698 ug/l

RT: 1.70 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU031197.D

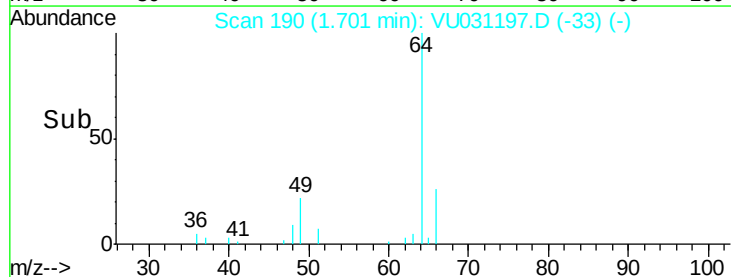
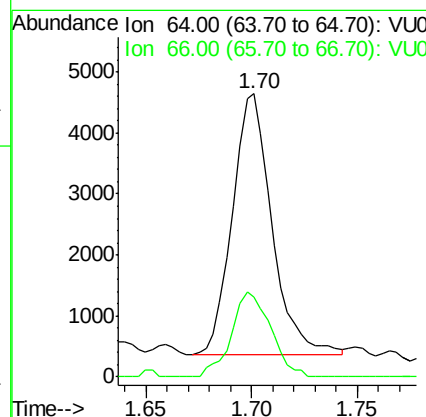
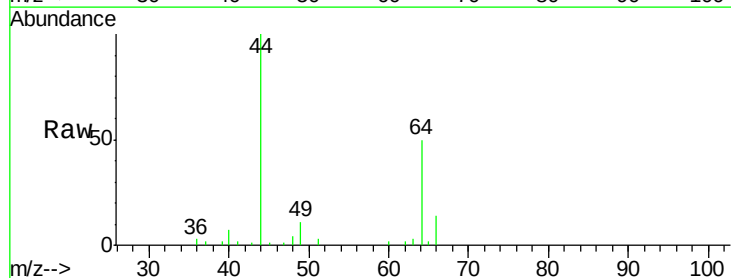
Acq: 15 Apr 2019 19:14

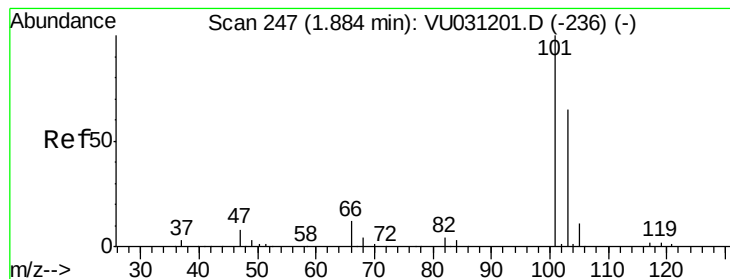
Tgt Ion: 64 Resp: 5568

Ion Ratio Lower Upper

64 100

66 30.5 25.1 37.7





#7

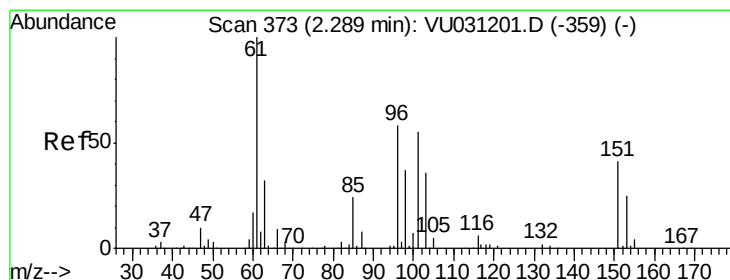
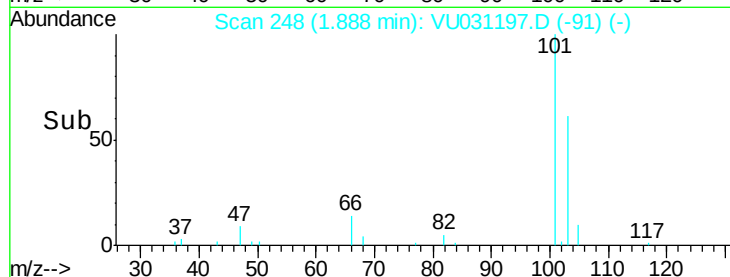
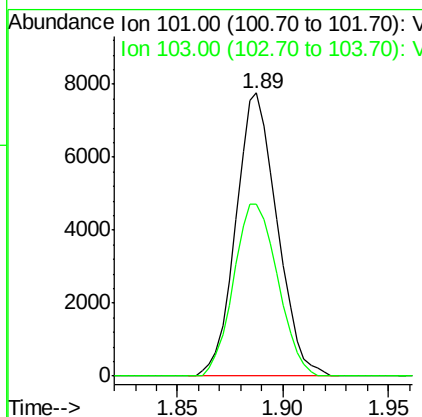
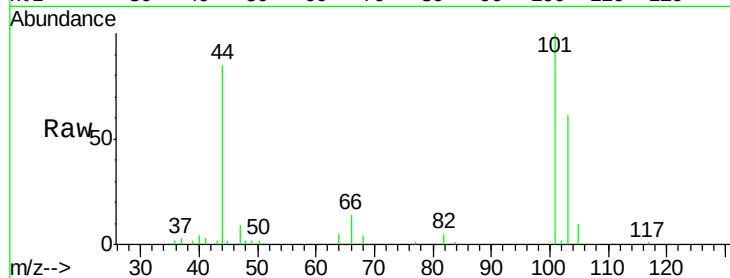
Trichlorofluoromethane
 Concen: 0.644 ug/l
 RT: 1.89 min Scan# 248
 Delta R.T. 0.00 min
 Lab File: VU031197.D
 Acq: 15 Apr 2019 19:14

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
101	100		
103	60.7	51.8	77.8

Manual Integrations
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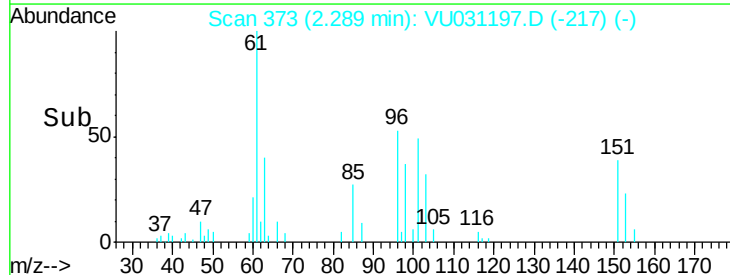
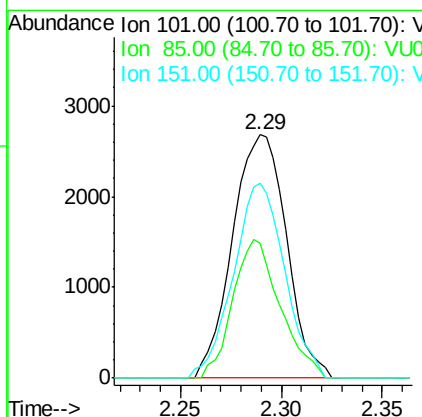
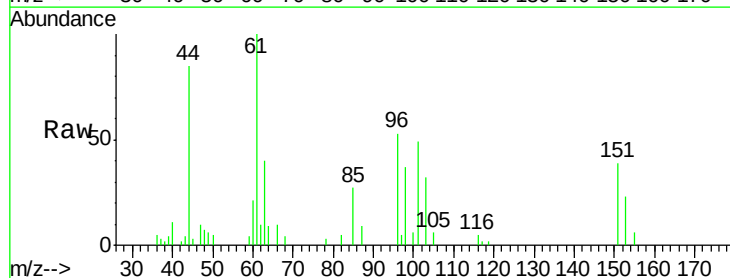
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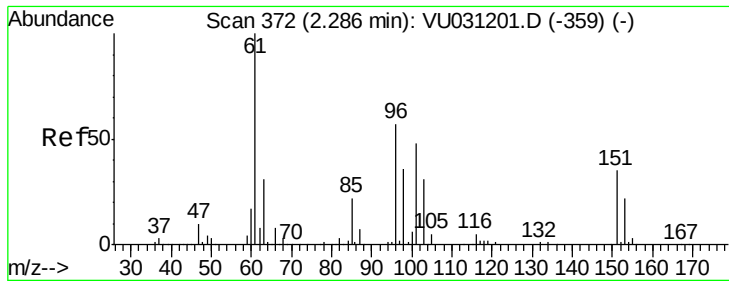


#8

1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.611 ug/l
 RT: 2.29 min Scan# 373
 Delta R.T. 0.00 min
 Lab File: VU031197.D
 Acq: 15 Apr 2019 19:14

Tgt Ion	Ratio	Lower	Upper
101	100		
85	49.9	36.1	54.1
151	76.0	58.2	87.2





#9

1,1-Dichloroethene

Concen: 0.634 ug/l

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

Instrument :

MSVOA_U

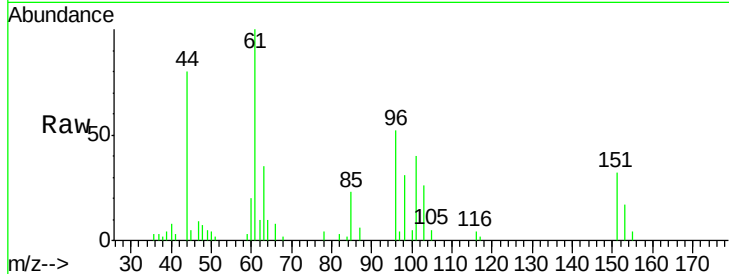
ClientSampleId :

VSTDIC0.5

Tot Ion:	96	Resp:	5173
Ion	Ratio	Lower	Upper
96	100		
61	190.9	0.0	527.7
98	59.9	0.0	127.6

Manual Integrations
APPROVED

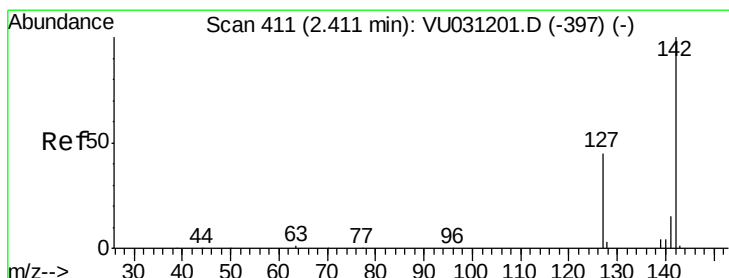
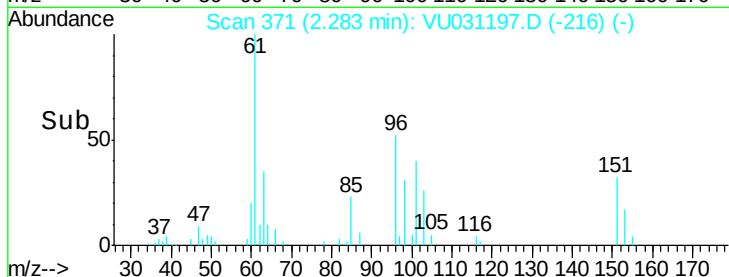
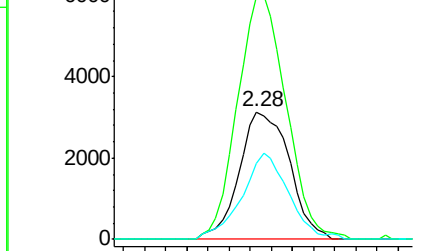
MMDadoda
4/16/2019 3:23:06 PM



Abundance Ion 96.00 (95.70 to 96.70): VU031201.D (-359) (-)

Ion 61.00 (60.70 to 61.70): VU031201.D (-359) (-)

Ion 98.00 (97.70 to 98.70): VU031201.D (-359) (-)



#10

Iodomethane

Concen: 0.554 ug/l

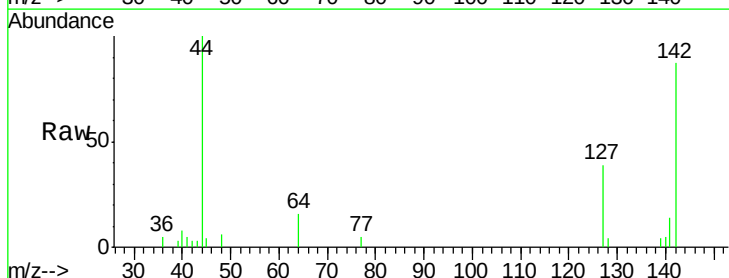
RT: 2.41 min Scan# 411

Delta R.T. 0.00 min

Lab File: VU031197.D

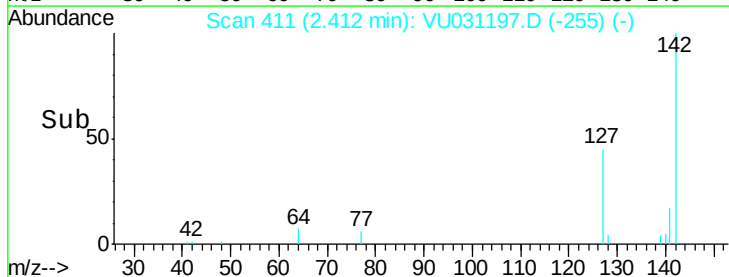
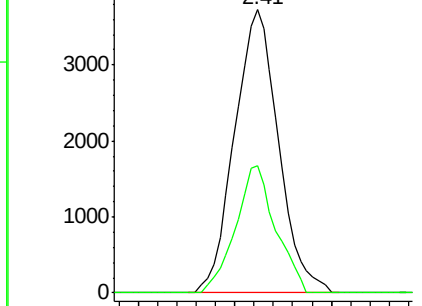
Acq: 15 Apr 2019 19:14

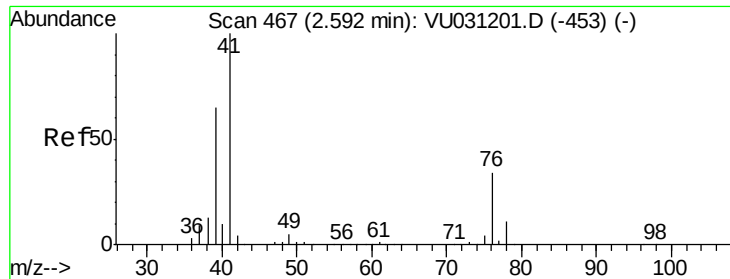
Tgt Ion:	142	Resp:	5888
Ion	Ratio	Lower	Upper
142	100		
127	40.9	35.9	53.9



Abundance Ion 142.00 (141.70 to 142.70): VU031201.D (-397) (-)

Ion 127.00 (126.70 to 127.70): VU031201.D (-397) (-)





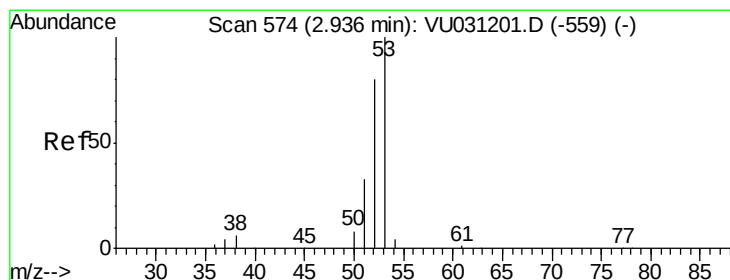
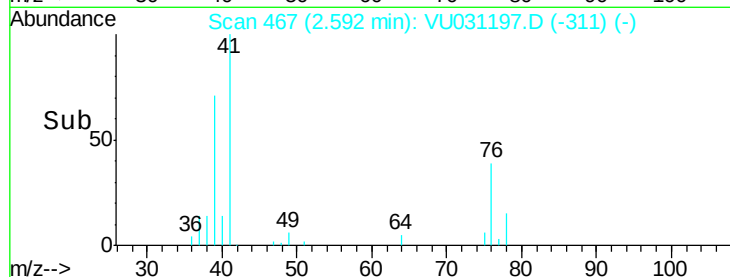
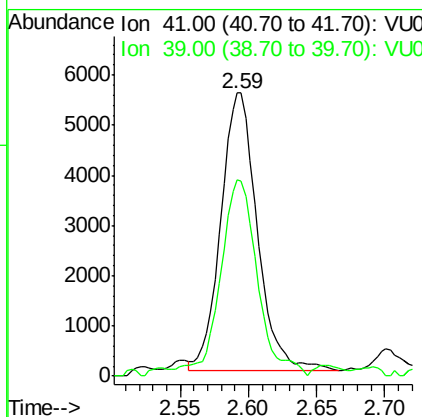
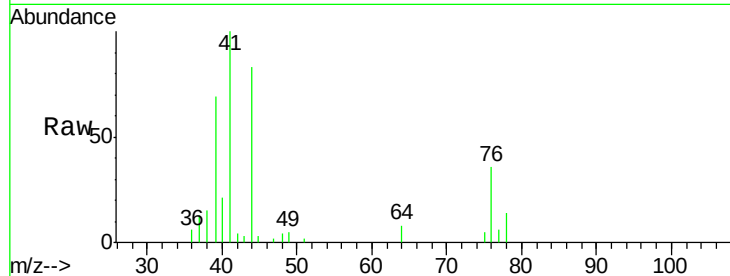
#11
Allvl Chloride
Concen: 0.590 ug/l
RT: 2.59 min Scan# 467
Delta R.T. 0.00 min
Lab File: VU031197.D
Acq: 15 Apr 2019 19:14

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC0.5

Tot Ion: 41 Resp: 10308
Ion Ratio Lower Upper
41 100
39 71.8 51.9 77.9

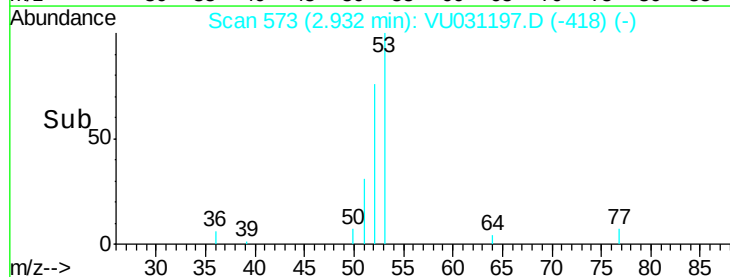
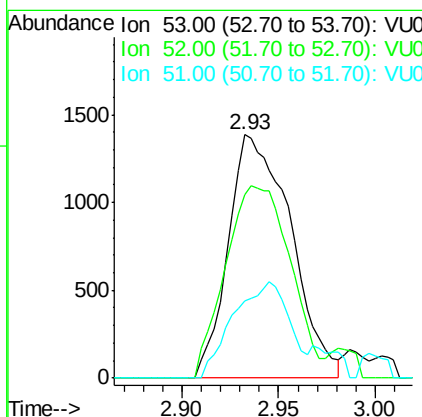
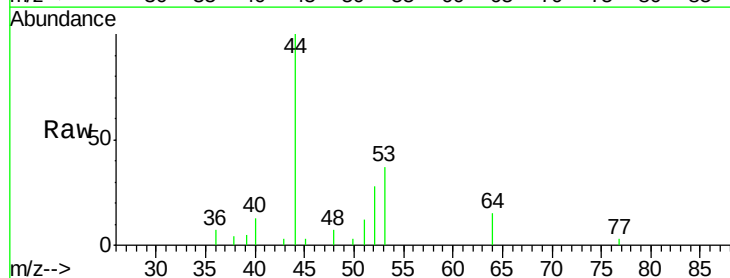
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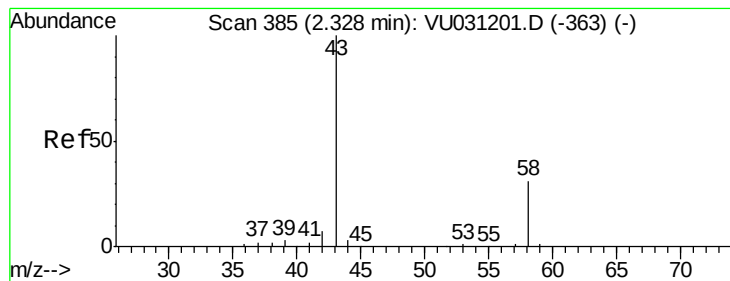
MMDadoda
4/16/2019 3:23:06 PM



#12
Acrylonitrile
Concen: 1.168 ug/l
RT: 2.93 min Scan# 573
Delta R.T. -0.00 min
Lab File: VU031197.D
Acq: 15 Apr 2019 19:14

Tgt Ion: 53 Resp: 3098
Ion Ratio Lower Upper
53 100
52 82.7 67.8 101.8
51 35.8 26.9 40.3





#13

Acetone

Concen: 3.601 ug/l

RT: 2.32 min Scan# 384

Delta R.T. -0.00 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tot Ion: 43 Resp: 8764

Ion Ratio Lower Upper

43 100

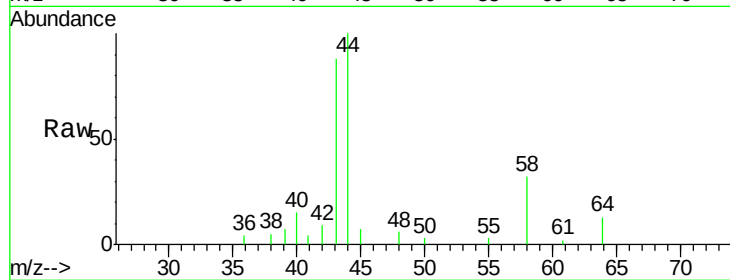
58 36.1 24.7 37.1

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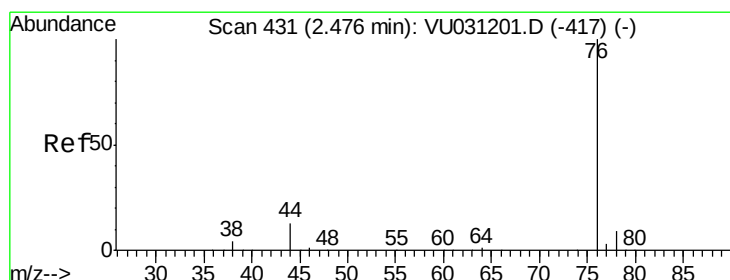
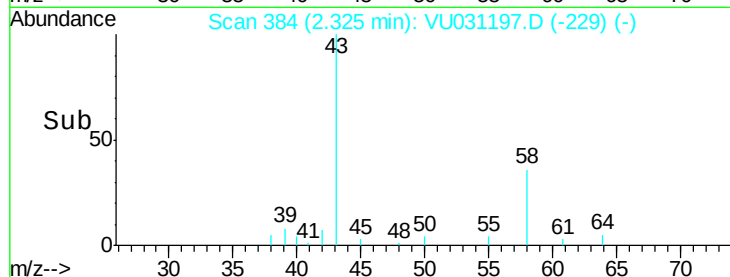


Abundance Ion 43.00 (42.70 to 43.70): VU031197.D (-229) (-)

Ion 58.00 (57.70 to 58.70): VU031197.D (-229) (-)

2.32

Time-->



#14

Carbon Disulfide

Concen: 0.638 ug/l

RT: 2.48 min Scan# 431

Delta R.T. 0.00 min

Lab File: VU031197.D

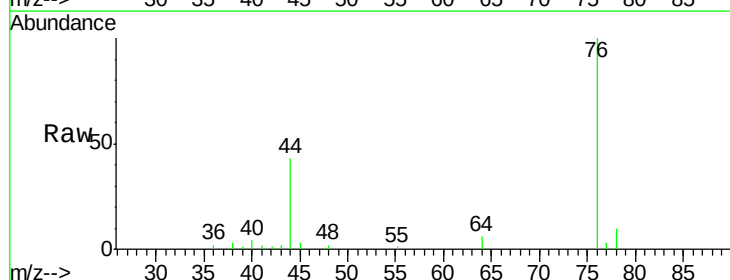
Acq: 15 Apr 2019 19:14

Tgt Ion: 76 Resp: 19125

Ion Ratio Lower Upper

76 100

78 9.8 7.2 10.8

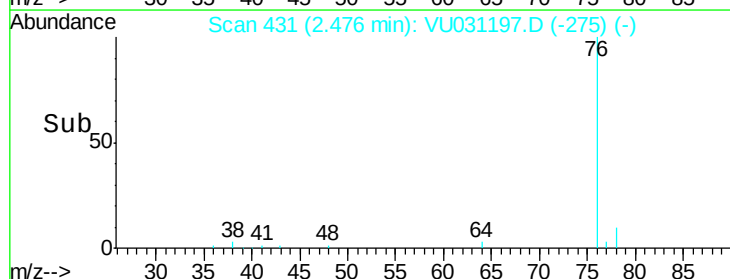


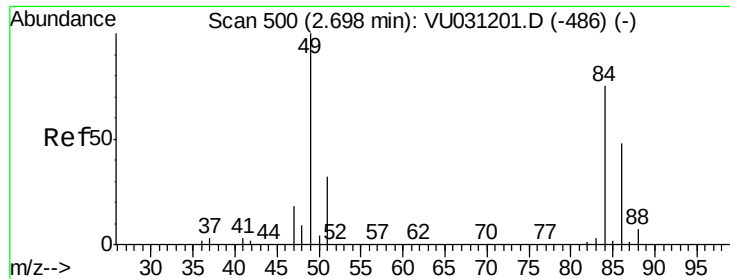
Abundance Ion 76.00 (75.70 to 76.70): VU031197.D (-275) (-)

Ion 78.00 (77.70 to 78.70): VU031197.D (-275) (-)

2.48

Time-->





#15

Methylene Chloride

Concen: 0.743 ug/l

RT: 2.70 min Scan# 500

Delta R.T. 0.00 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tot Ion: 84 Resp: 8267

Ion Ratio Lower Upper

84 100

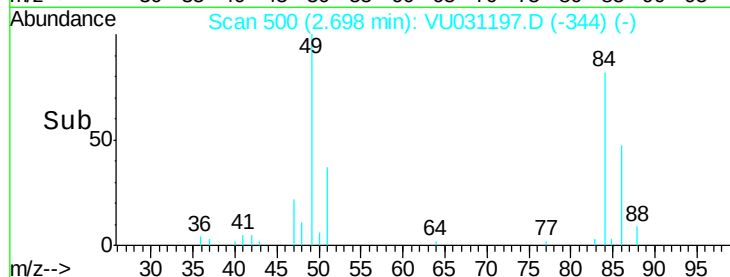
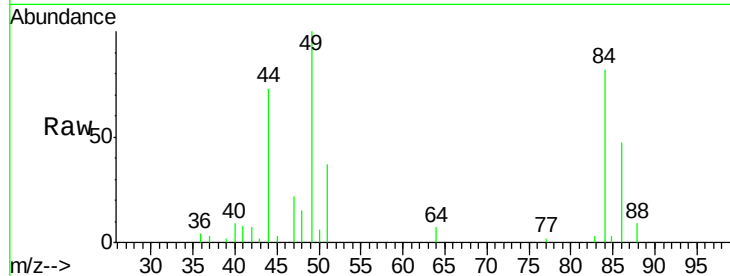
49 121.6 106.1 159.1

51 44.9 0.0 84.2

86 57.6 50.5 75.7

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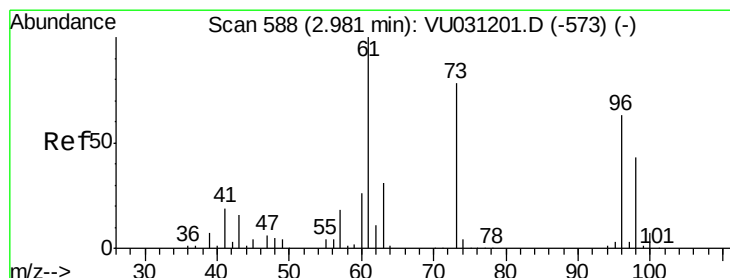
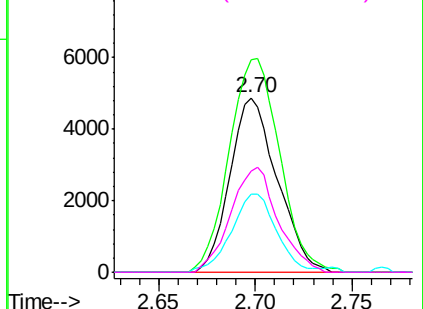


Abundance Ion 84.00 (83.70 to 84.70): VU031197.D (-344) (-)

Ion 49.00 (48.70 to 49.70): VU031197.D (-344) (-)

Ion 51.00 (50.70 to 51.70): VU031197.D (-344) (-)

Ion 86.00 (85.70 to 86.70): VU031197.D (-344) (-)



#16

trans-1,2-Dichloroethene

Concen: 0.654 ug/l

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

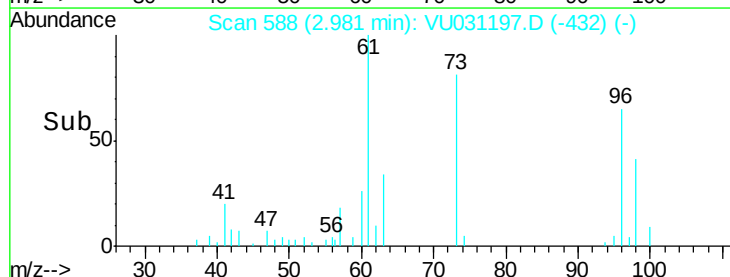
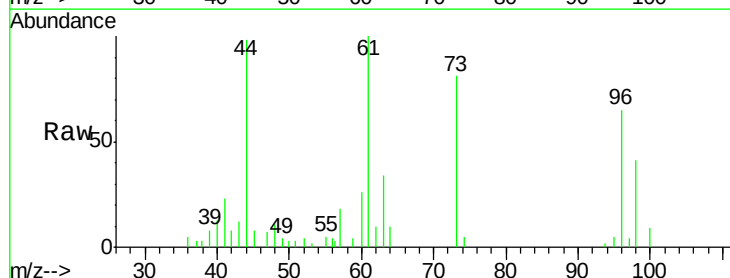
Tgt Ion: 96 Resp: 6034

Ion Ratio Lower Upper

96 100

61 153.8 126.6 189.8

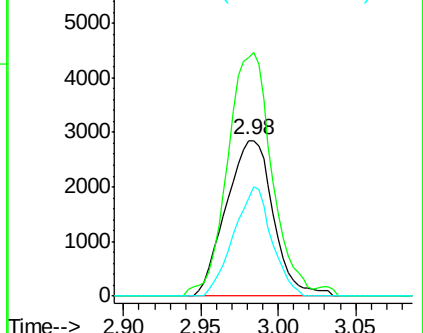
98 63.2 53.9 80.9

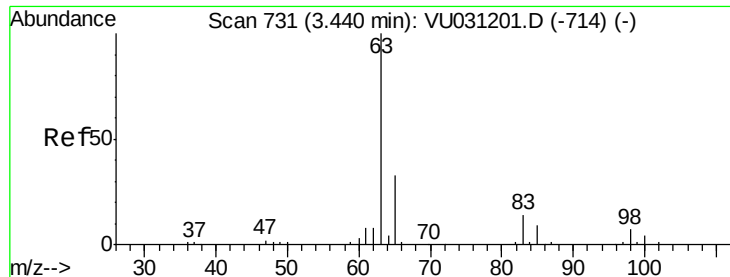


Abundance Ion 96.00 (95.70 to 96.70): VU031197.D (-432) (-)

Ion 61.00 (60.70 to 61.70): VU031197.D (-432) (-)

Ion 98.00 (97.70 to 98.70): VU031197.D (-432) (-)





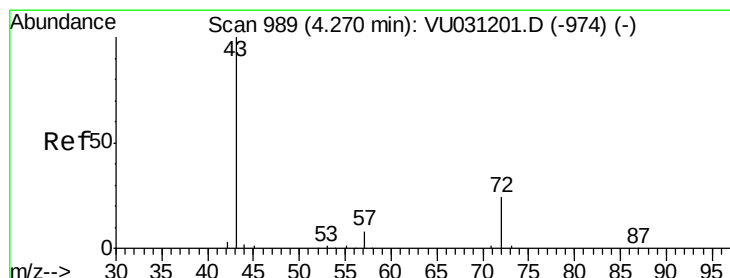
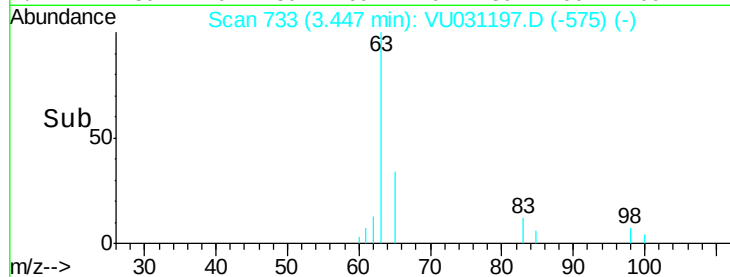
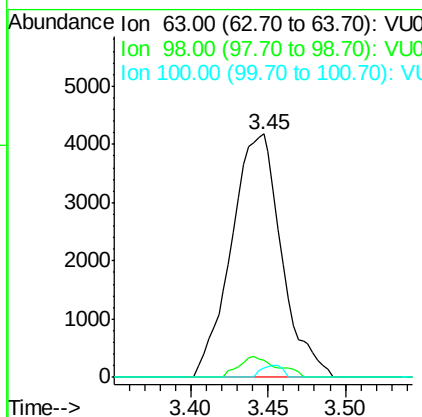
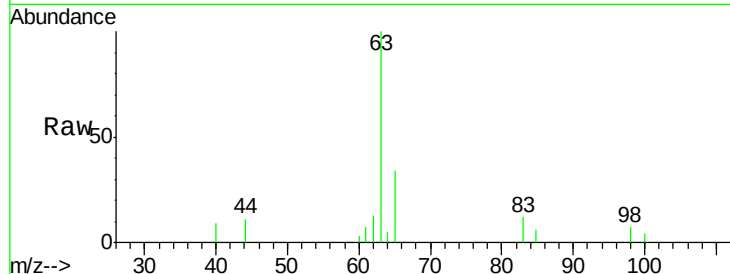
#17
 1,1-Dichloroethane
 Concen: 0.521 ug/l
 RT: 3.45 min Scan# 733
 Delta R.T. 0.01 min
 Lab File: VU031197.D
 Acq: 15 Apr 2019 19:14

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC0.5

Tot Ion:	63	Resp:	9420
Ion Ratio	Lower	Upper	
63	100		
98	6.9	3.3	9.8
100	4.1	2.0	5.8

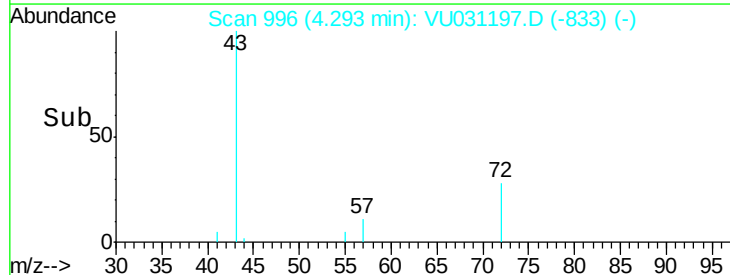
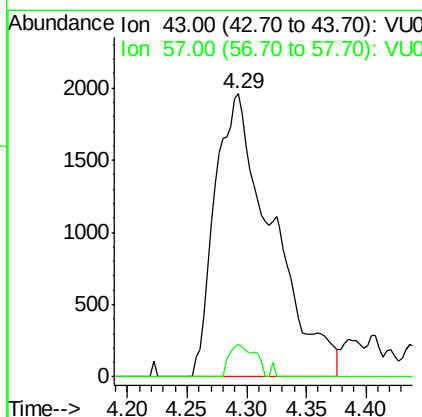
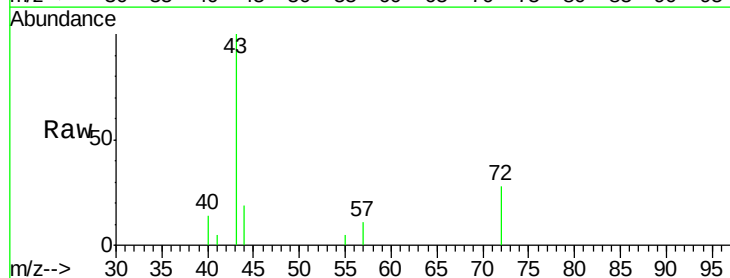
Manual Integrations
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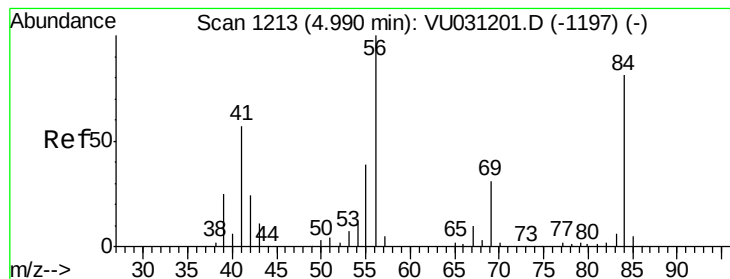
MMDadoda
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#18
 2-Butanone
 Concen: 2.132 ug/l m
 RT: 4.29 min Scan# 996
 Delta R.T. 0.02 min
 Lab File: VU031197.D
 Acq: 15 Apr 2019 19:14

Tgt Ion:	43	Resp:	6612
Ion Ratio	Lower	Upper	
43	100		
57	11.3	0.0	16.2





#19

Cyclohexane

Concen: 0.403 ug/l

RT: 4.99 min Scan# 1214

Delta R.T. 0.00 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

Instrument :

MSVOA_U

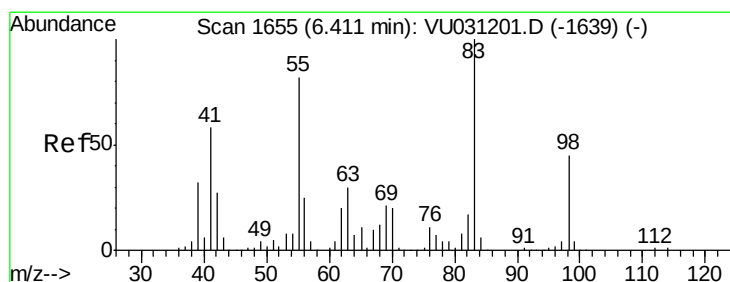
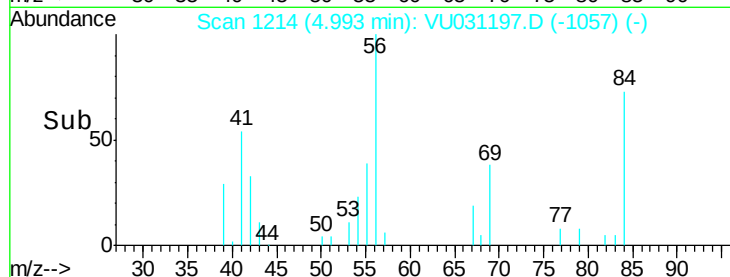
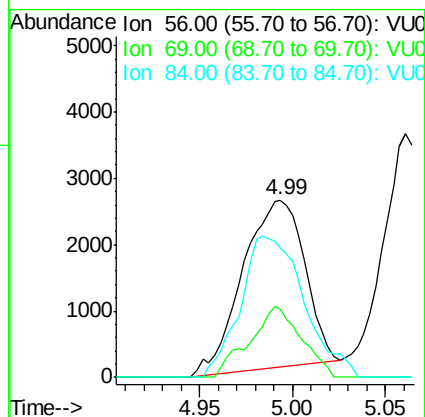
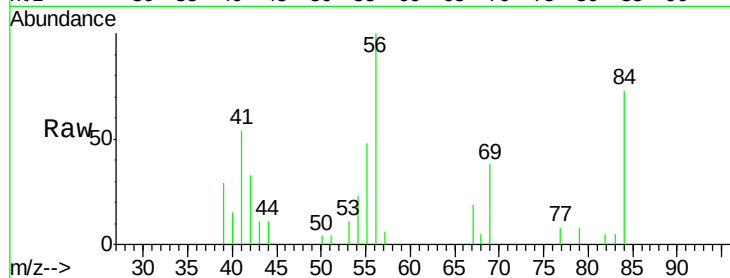
ClientSampleId :

VSTDIC0.5

Tot Ion:	56	Resp:	5867
Ion	Ratio	Lower	Upper
56	100		
69	35.3	28.3	42.5
84	86.5	75.2	112.8

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#20

Methylcyclohexane

Concen: 0.465 ug/l

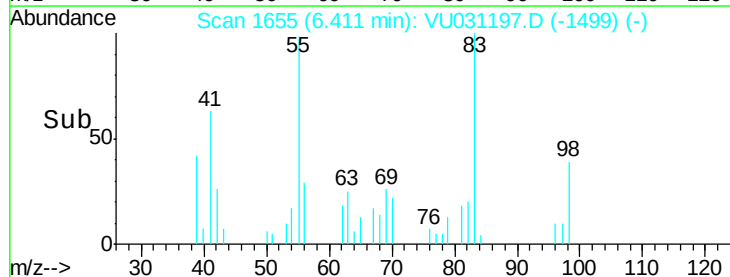
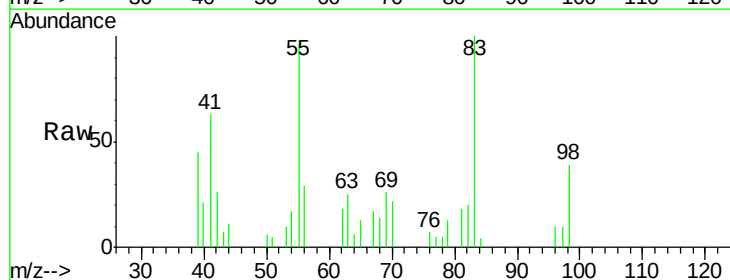
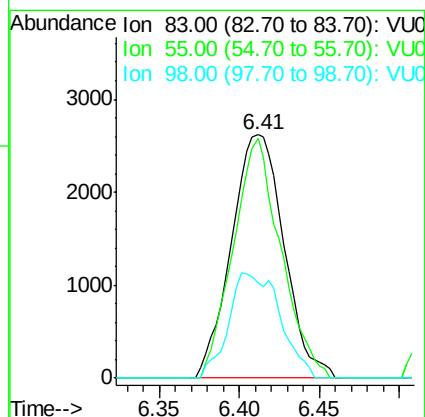
RT: 6.41 min Scan# 1655

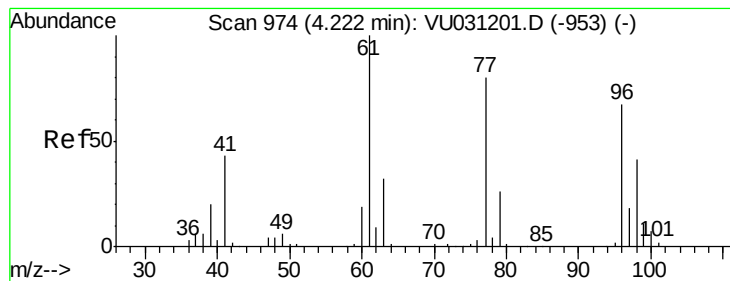
Delta R.T. 0.00 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

Tgt Ion:	83	Resp:	5876
Ion	Ratio	Lower	Upper
83	100		
55	89.2	68.2	102.2
98	42.3	35.8	53.8





#21

2,2-Dichloropropane

Concen: 0.494 ug/l

RT: 4.22 min Scan# 973

Delta R.T. -0.00 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tot Ion: 77 Resp: 6899

Ion Ratio Lower Upper

77 100

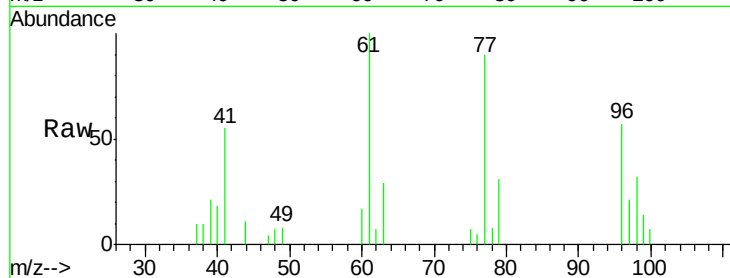
97 23.3 18.2 27.2

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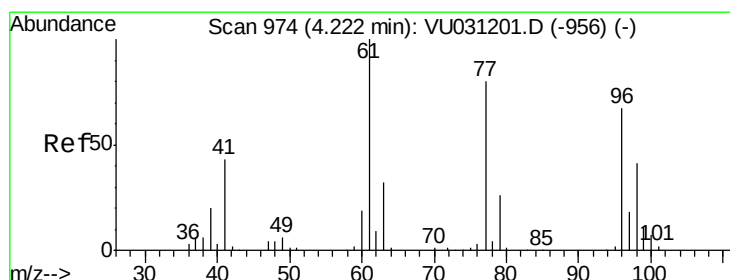
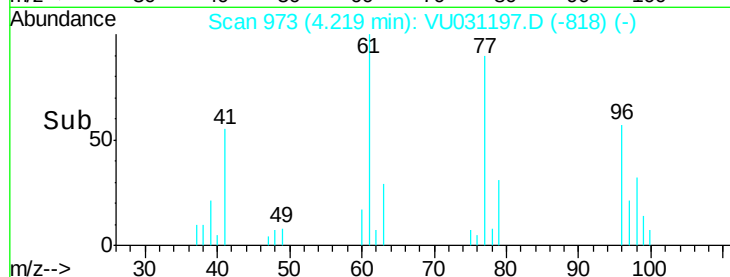
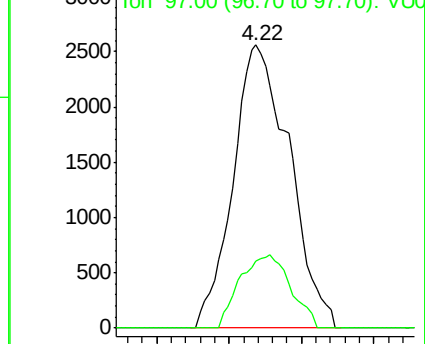
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Abundance Ion 77.00 (76.70 to 77.70): VU031197.D (-818) (-)



#22

cis-1,2-Dichloroethene

Concen: 0.512 ug/l

RT: 4.23 min Scan# 975

Delta R.T. 0.00 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

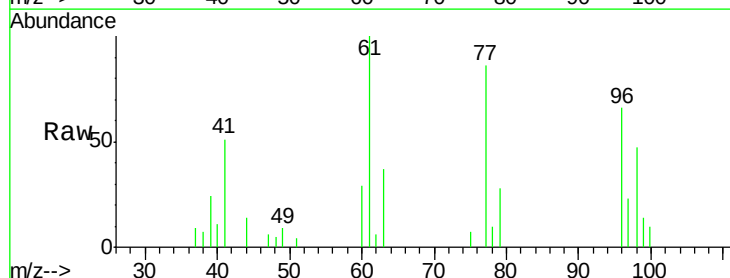
Tgt Ion: 96 Resp: 4767

Ion Ratio Lower Upper

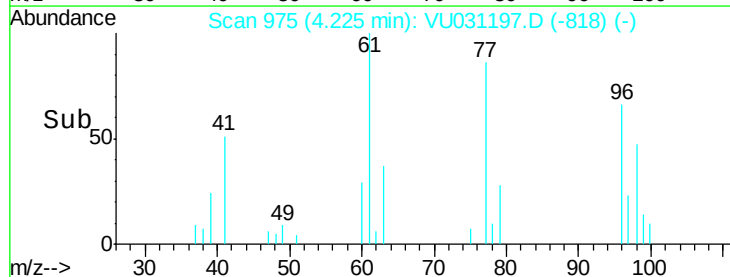
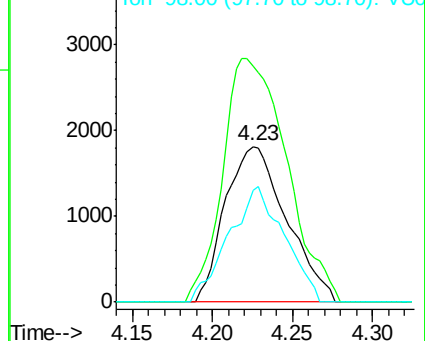
96 100

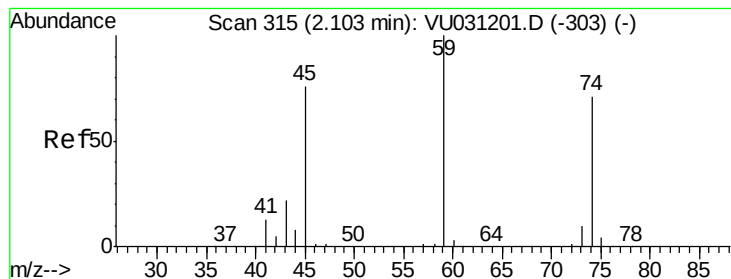
61 163.2 0.0 380.0

98 67.1 32.3 96.9



Abundance Ion 96.00 (95.70 to 96.70): VU031197.D (-818) (-)





#23

Diethyl Ether

Concen: 0.596 ug/l

RT: 2.10 min Scan# 315

Delta R.T. 0.00 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

Instrument :

MSVOA_U

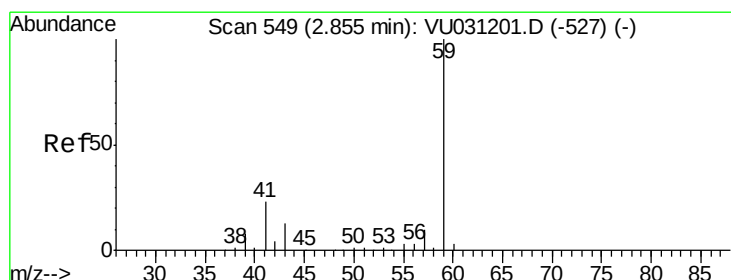
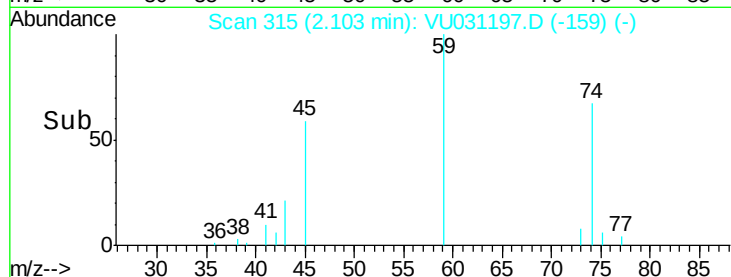
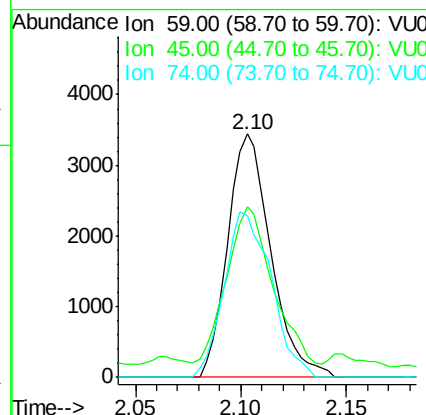
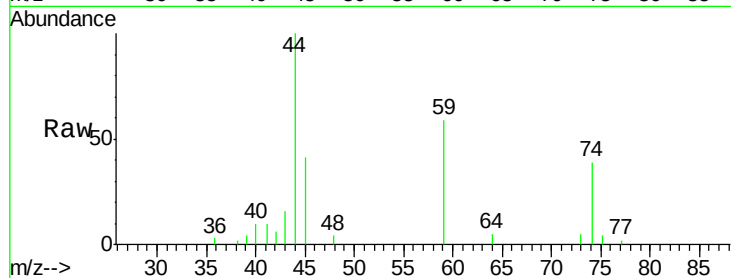
ClientSampleId :

VSTDIC0.5

Tot Ion:	59	Resp:	4891
Ion	Ratio	Lower	Upper
59	100		
45	71.8	61.8	92.6
74	73.8	55.8	83.8

Manual Integrations
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#24

tert-Butyl Alcohol

Concen: 5.269 ug/l

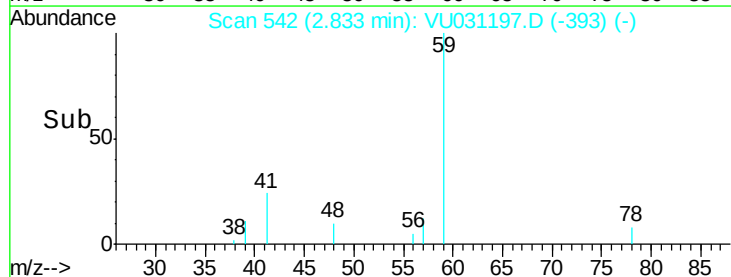
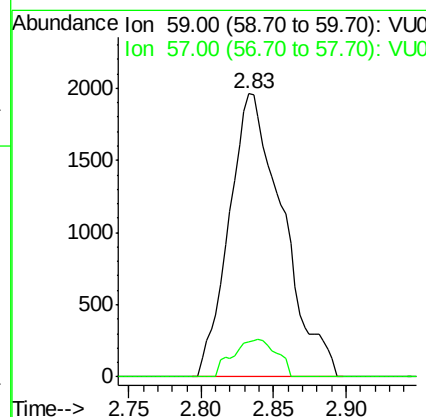
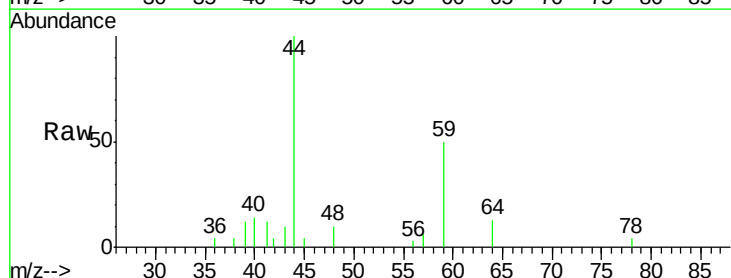
RT: 2.83 min Scan# 542

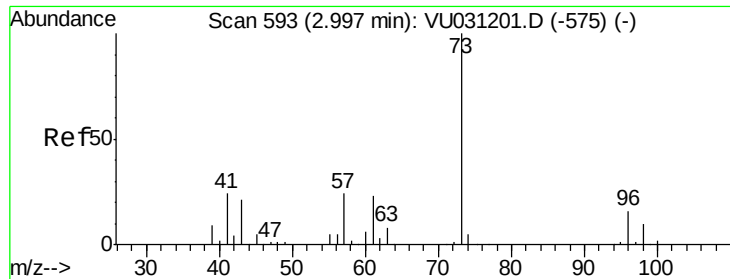
Delta R.T. -0.02 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

Tgt Ion:	59	Resp:	5054
Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.4	12.6





#25

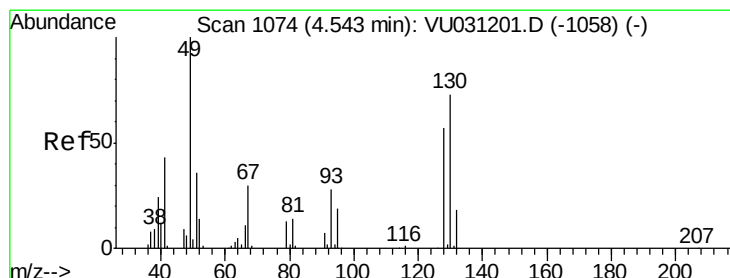
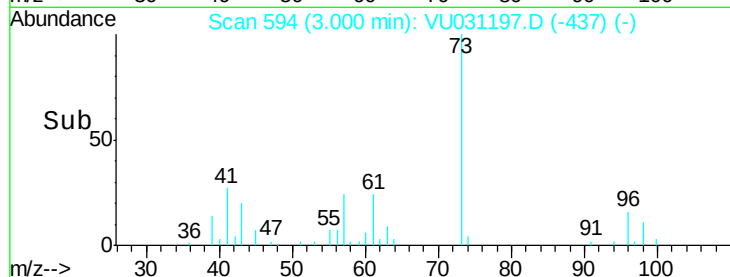
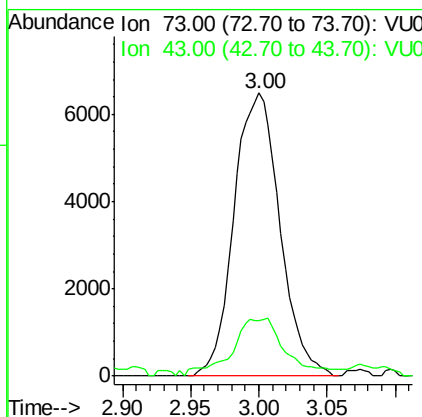
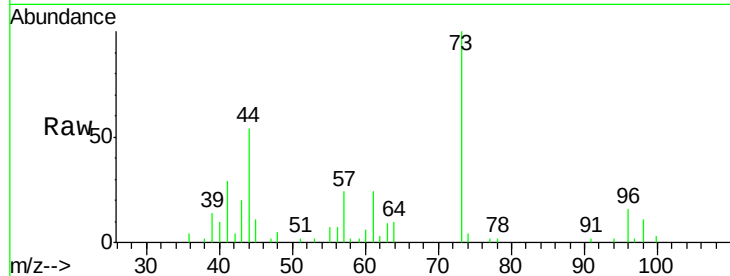
Methyl tert-Butyl Ether
 Concen: 0.595 ug/l
 RT: 3.00 min Scan# 594
 Delta R.T. 0.00 min
 Lab File: VU031197.D
 Acq: 15 Apr 2019 19:14

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC0.5

Tot Ion	73	Resp	15168
Ion Ratio	Lower	Upper	
73	100		
43	23.9	16.2	24.4

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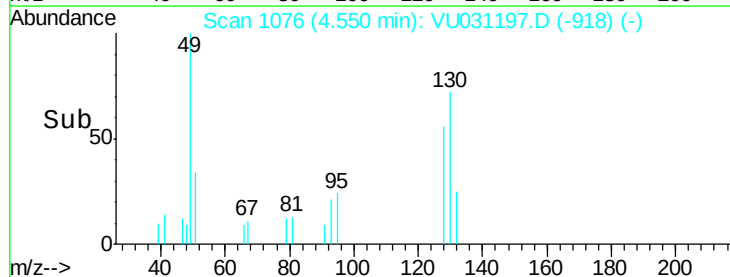
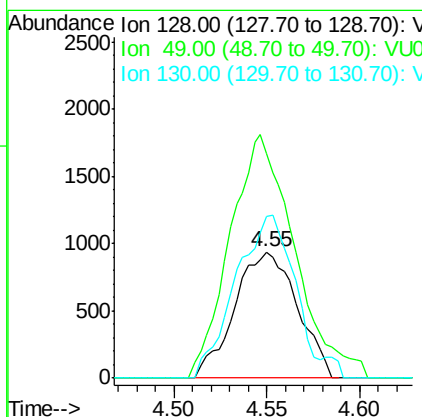
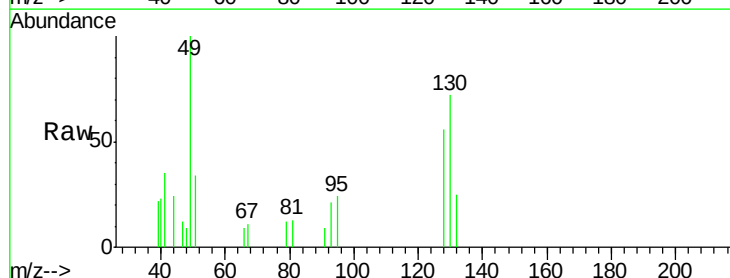
MMDadoda
 4/16/2019 3:23:06 PM

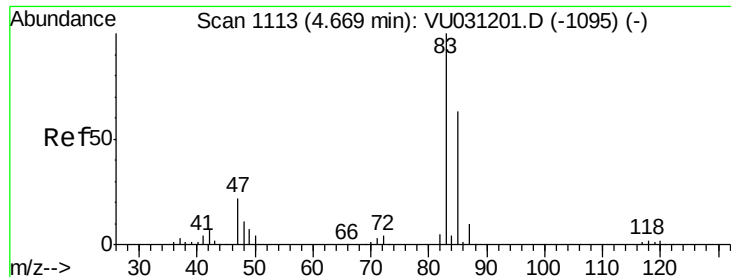


#26

Bromochloromethane
 Concen: 0.548 ug/l
 RT: 4.55 min Scan# 1076
 Delta R.T. 0.01 min
 Lab File: VU031197.D
 Acq: 15 Apr 2019 19:14

Tgt Ion	128	Resp	2211
Ion Ratio	Lower	Upper	
128	100		
49	198.4	0.0	345.8
130	120.4	103.4	155.2





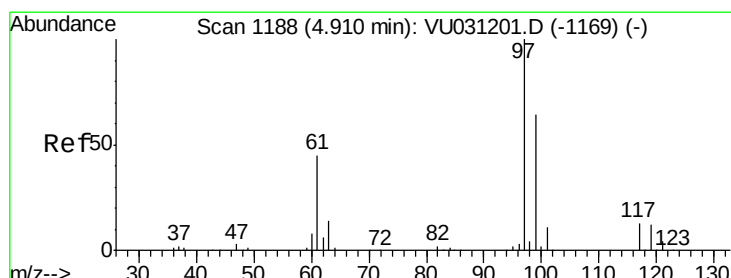
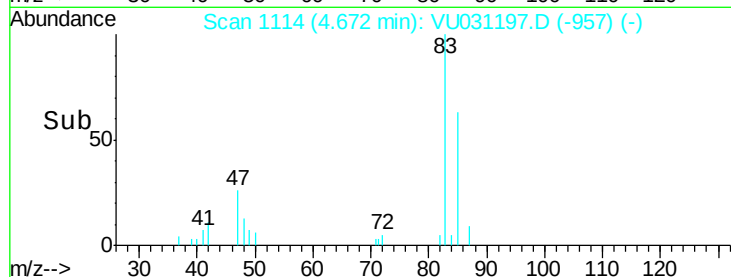
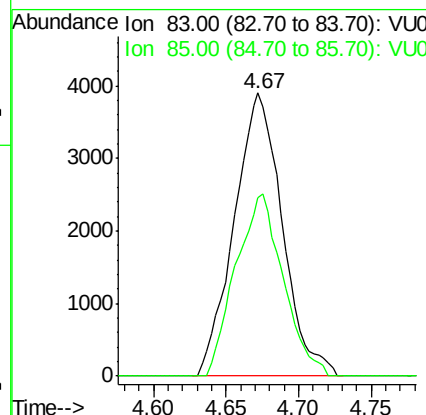
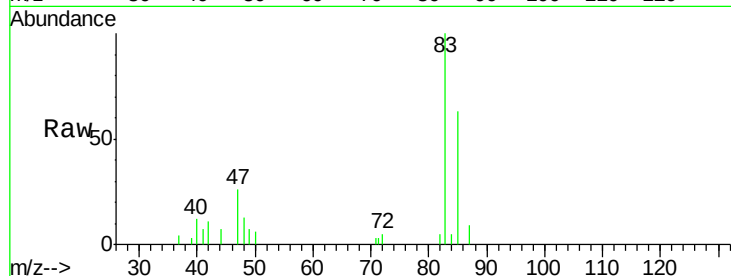
#27
Chloroform
Concen: 0.525 ug/l
RT: 4.67 min Scan# 1114
Delta R.T. 0.00 min
Lab File: VU031197.D
Acq: 15 Apr 2019 19:14

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC0.5

Tot Ion	83	Resp	8987
Ion Ratio	100	Lower	Upper
85	63.1	0.0	126.6

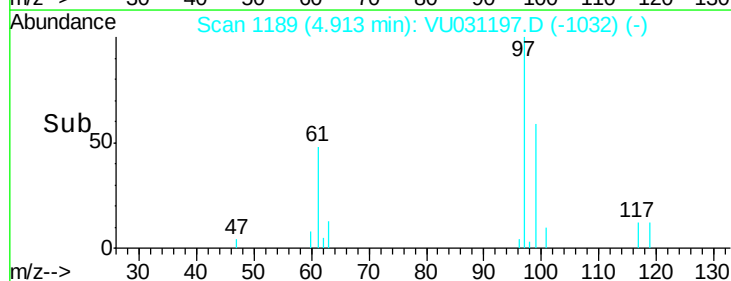
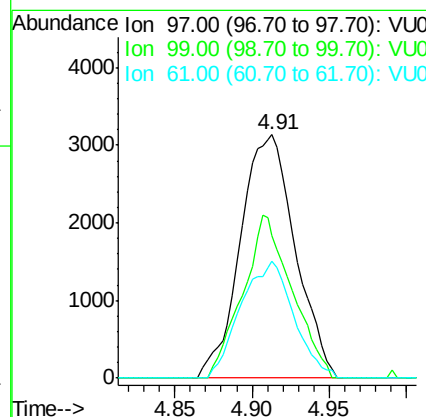
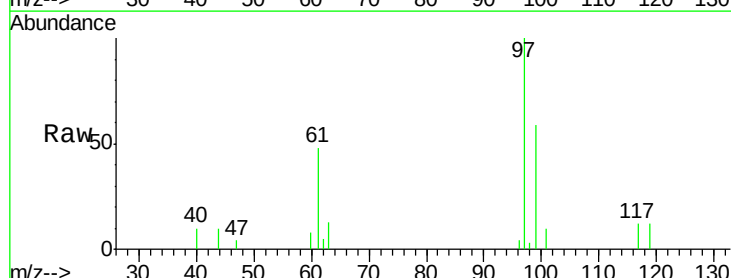
Manual Integrations
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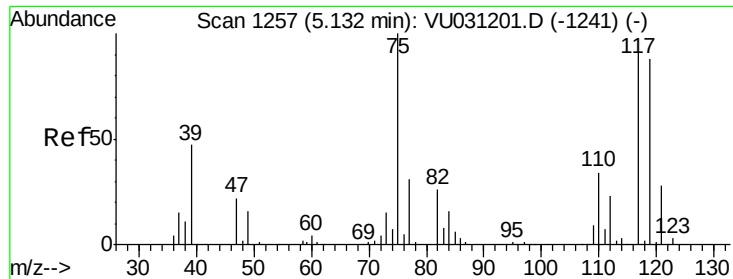
MMDadoda
4/16/2019 3:23:06 PM



#28
1,1,1-Trichloroethane
Concen: 0.548 ug/l
RT: 4.91 min Scan# 1189
Delta R.T. 0.00 min
Lab File: VU031197.D
Acq: 15 Apr 2019 19:14

Tgt Ion	97	Resp	7722
Ion Ratio	100	Lower	Upper
99	60.0	32.0	96.0
61	46.3	22.2	66.6





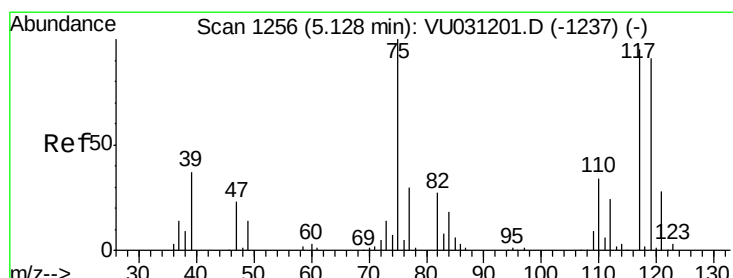
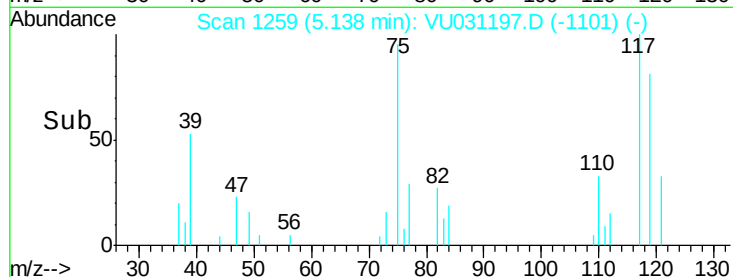
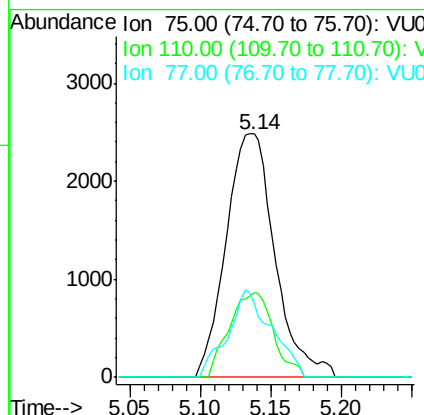
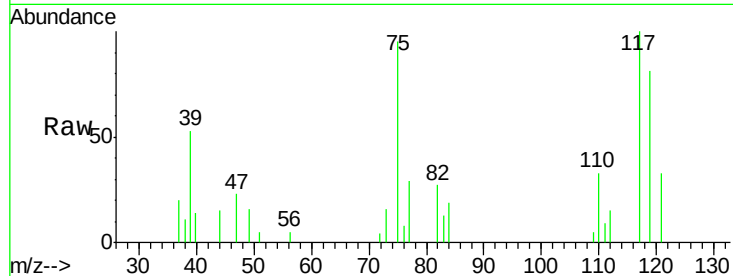
#29
 1,1-Dichloropropene
 Concen: 0.487 ug/l
 RT: 5.14 min Scan# 1259
 Delta R.T. 0.01 min
 Lab File: VU031197.D
 Acq: 15 Apr 2019 19:14

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
75	100		
110	31.4	17.2	51.5
77	32.1	24.9	37.3

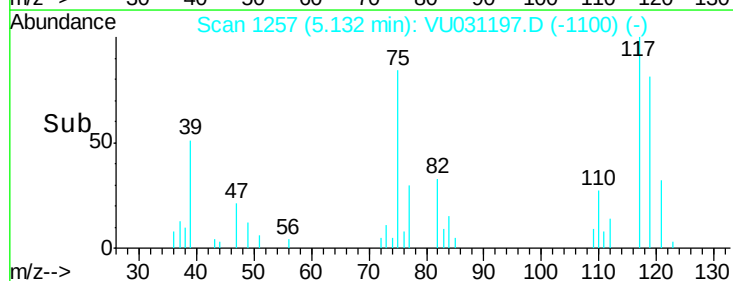
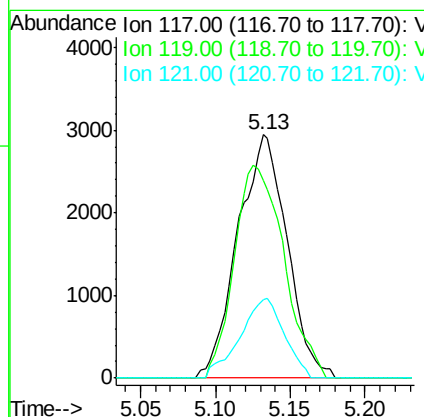
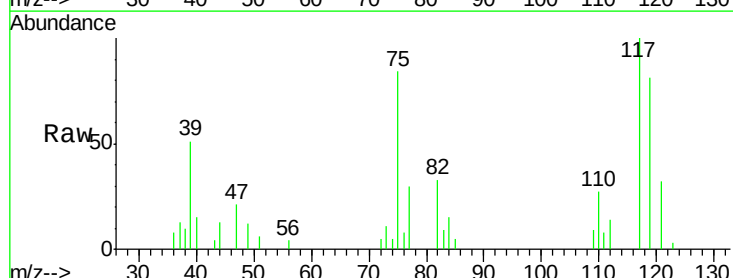
Manual Integrations
 APPROVED

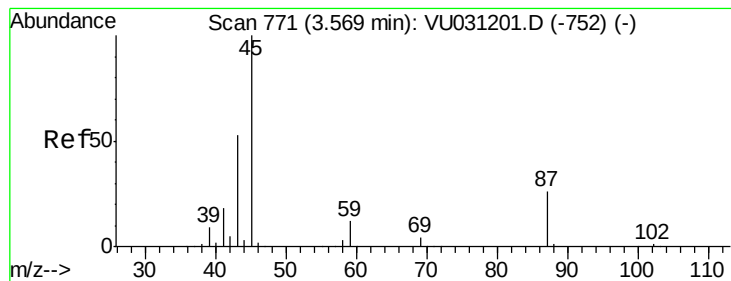
MMDadoda
 4/16/2019 3:23:06 PM



#30
 Carbon Tetrachloride
 Concen: 0.547 ug/l
 RT: 5.13 min Scan# 1257
 Delta R.T. 0.00 min
 Lab File: VU031197.D
 Acq: 15 Apr 2019 19:14

Tgt Ion	Ratio	Lower	Upper
117	100		
119	81.4	76.2	114.4
121	32.4	23.8	35.8





#31

Isopropyl Ether

Concen: 0.450 ug/l

RT: 3.57 min Scan# 772

Delta R.T. 0.00 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tot Ion: 45 Resp: 13217

Ion Ratio Lower Upper

45 100

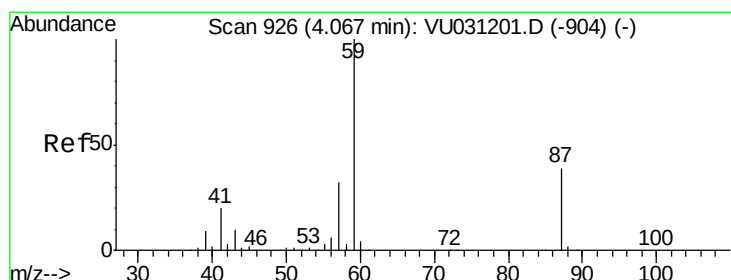
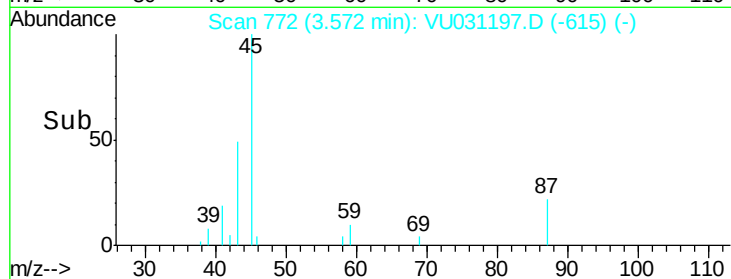
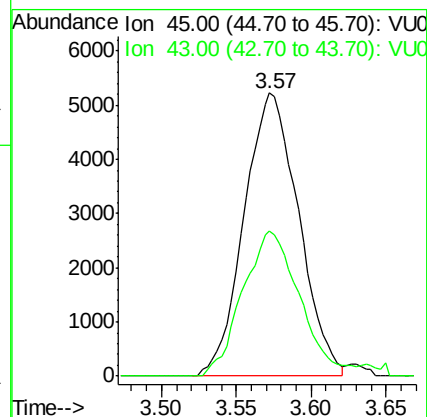
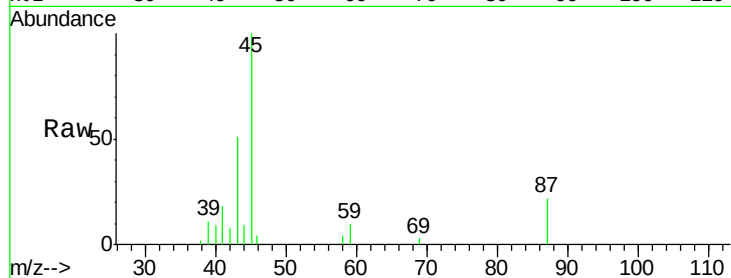
43 53.9 26.4 79.2

Manual Integrations

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#32

Ethyl-t-butyl ether

Concen: 0.445 ug/l

RT: 4.08 min Scan# 929

Delta R.T. 0.01 min

Lab File: VU031197.D

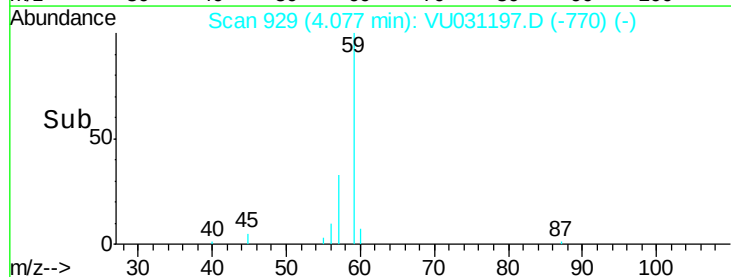
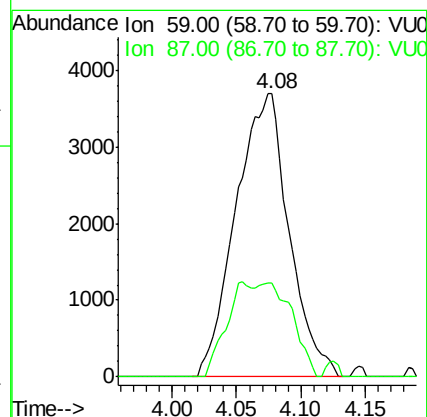
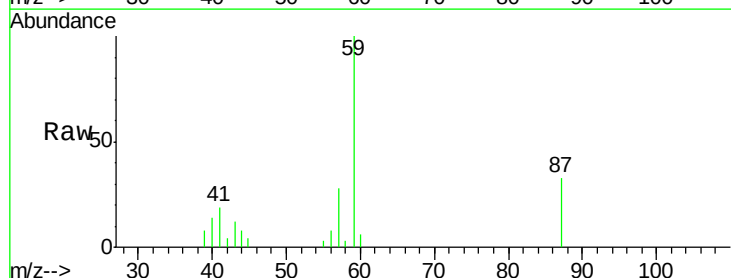
Acq: 15 Apr 2019 19:14

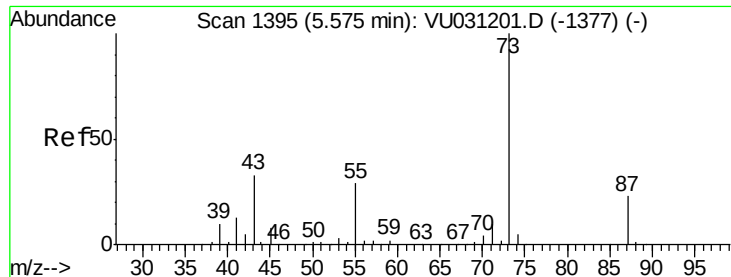
Tgt Ion: 59 Resp: 10610

Ion Ratio Lower Upper

59 100

87 15.8 32.2 48.2#





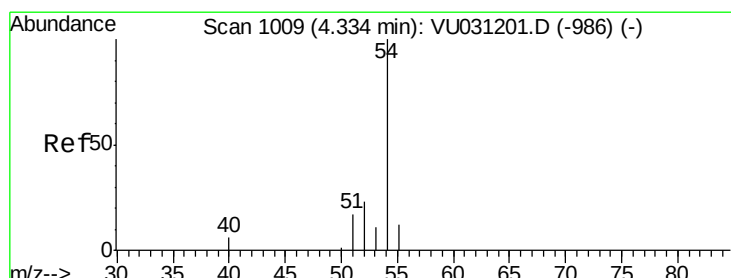
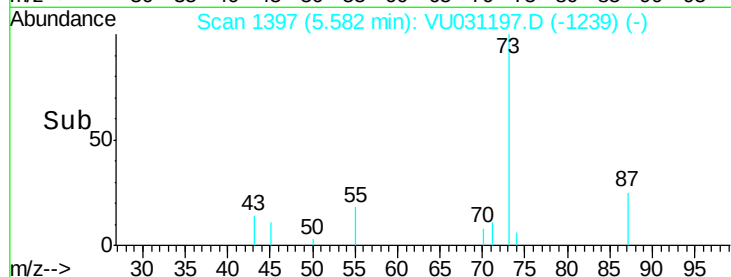
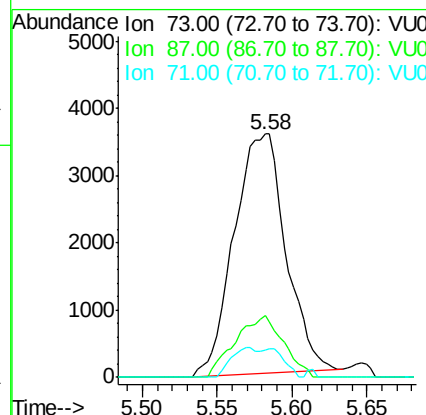
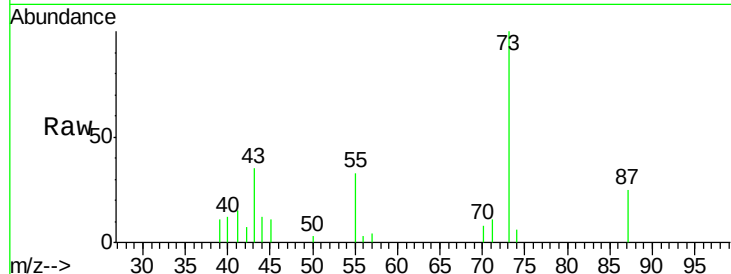
#33
Tert-Butyl methyl ether
Concen: 0.429 ug/l
RT: 5.58 min Scan# 1397
Delta R.T. 0.01 min
Lab File: VU031197.D
Acq: 15 Apr 2019 19:14

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
73	100		
87	23.9	18.4	27.6
71	6.7	8.8	13.2#

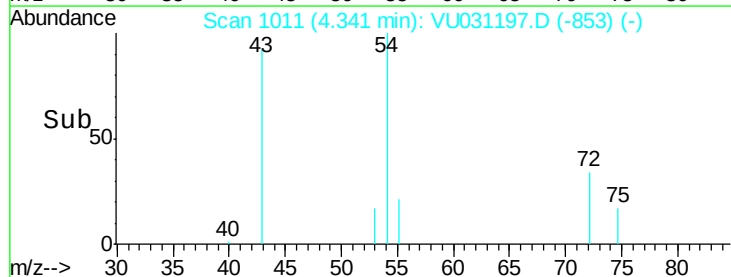
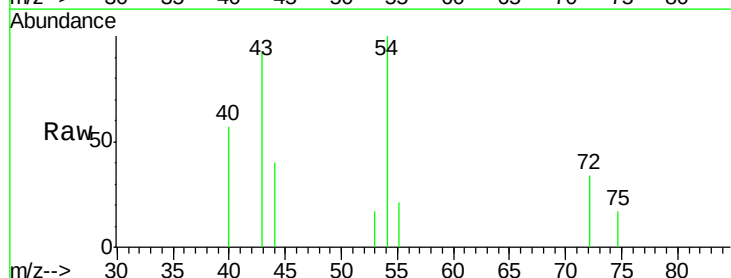
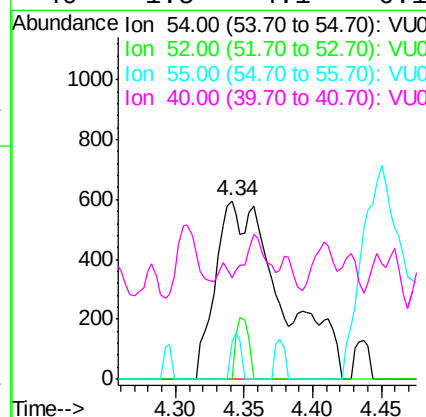
Manual Integrations
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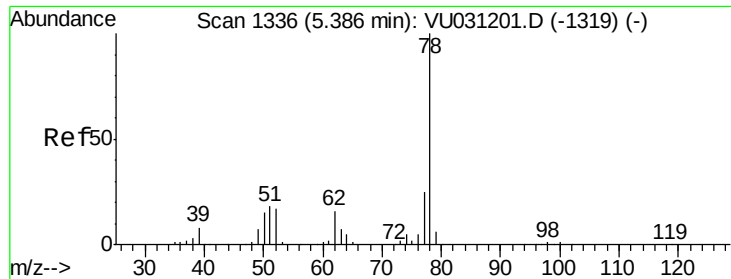
MMDadoda
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#34
Propionitrile
Concen: 2.566 ug/l m
RT: 4.34 min Scan# 1011
Delta R.T. 0.01 min
Lab File: VU031197.D
Acq: 15 Apr 2019 19:14

Tgt Ion	Ratio	Lower	Upper
54	100		
52	6.7	15.9	23.9#
55	4.0	8.9	13.3#
40	1.5	4.1	6.1#





#35

Benzene

Concen: 0.483 ug/l

RT: 5.39 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tot Ion: 78 Resp: 17694

Ion Ratio Lower Upper

78 100

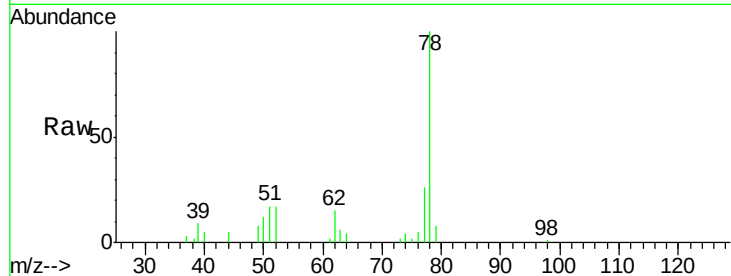
77 26.0 19.6 29.4

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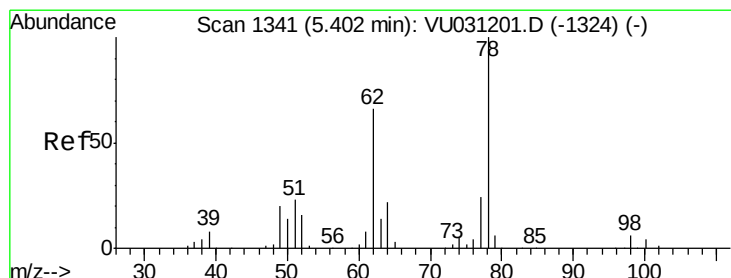
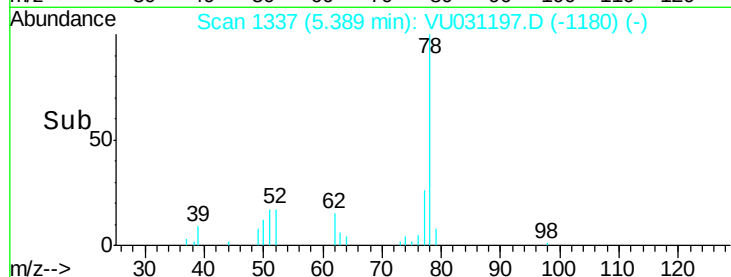
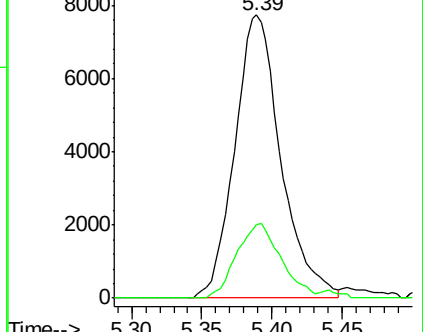
MMDadoda

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Abundance Ion 78.10 (77.80 to 78.80): VU031201.D (-1319) (-)

Ion 77.00 (76.70 to 77.70): VU031201.D (-1319) (-)



#36

1,2-Dichloroethane

Concen: 0.508 ug/l

RT: 5.41 min Scan# 1344

Delta R.T. 0.01 min

Lab File: VU031197.D

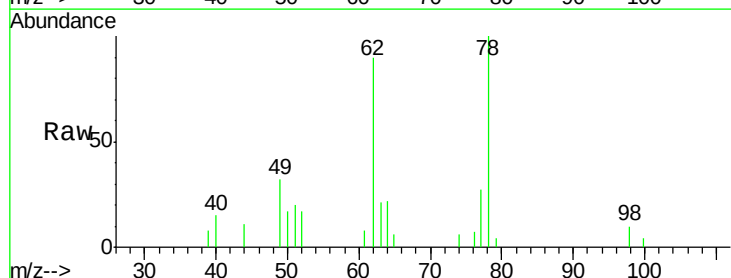
Acq: 15 Apr 2019 19:14

Tgt Ion: 62 Resp: 5914

Ion Ratio Lower Upper

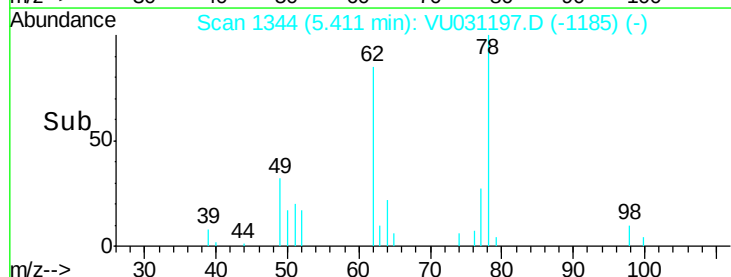
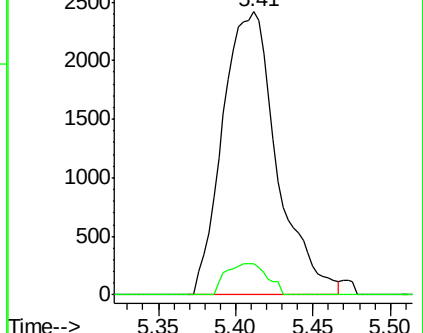
62 100

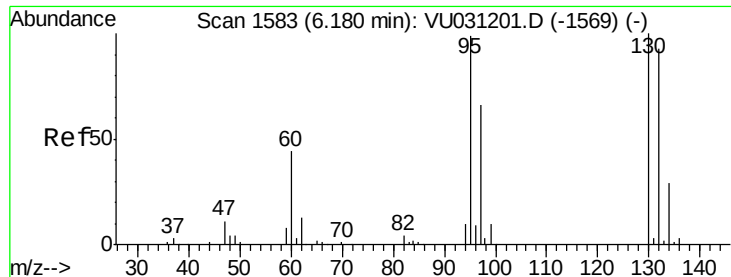
98 8.3 7.0 10.6



Abundance Ion 62.00 (61.70 to 62.70): VU031201.D (-1324) (-)

Ion 98.00 (97.70 to 98.70): VU031201.D (-1324) (-)





#37

Trichloroethene

Concen: 0.688 ug/l

RT: 6.19 min Scan# 1585

Delta R.T. 0.01 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tot Ion:130 Resp: 6132

Ion Ratio Lower Upper

130 100

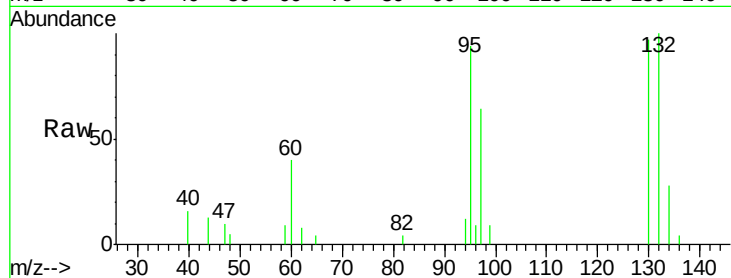
95 97.2 79.3 118.9

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Abundance Ion 129.90 (129.60 to 130.60): VU031197.D (-1504) (-)

Ion 94.90 (94.60 to 95.60): VU031197.D (-1504) (-)

6.19

3000

2500

2000

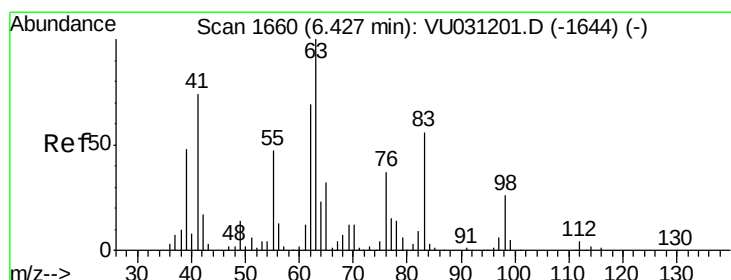
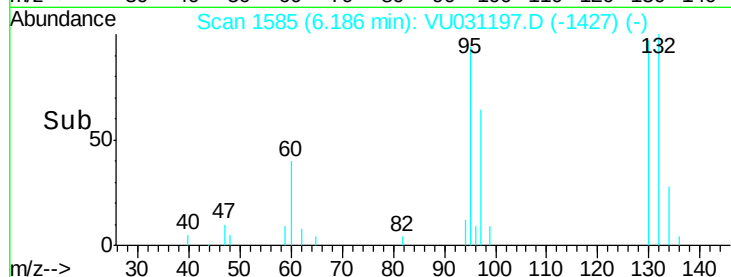
1500

1000

500

0

Time--> 6.10 6.15 6.20 6.25



#38

1,2-Dichloropropane

Concen: 0.461 ug/l

RT: 6.43 min Scan# 1662

Delta R.T. 0.01 min

Lab File: VU031197.D

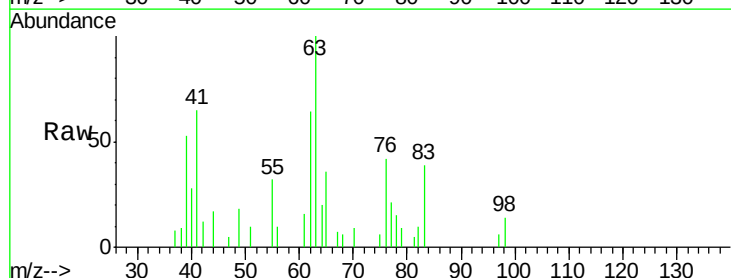
Acq: 15 Apr 2019 19:14

Tgt Ion: 63 Resp: 4812

Ion Ratio Lower Upper

63 100

65 36.0 25.5 38.3



Abundance Ion 63.00 (62.70 to 63.70): VU031197.D (-1504) (-)

Ion 65.00 (64.70 to 65.70): VU031197.D (-1504) (-)

6.43

2500

2000

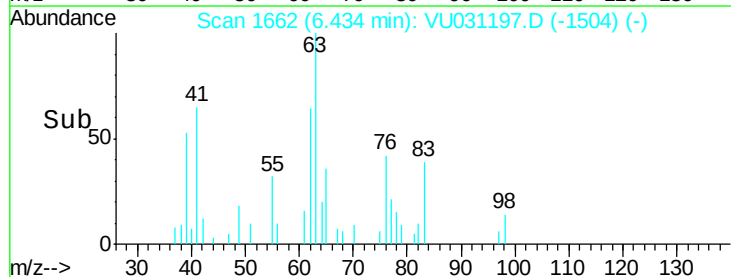
1500

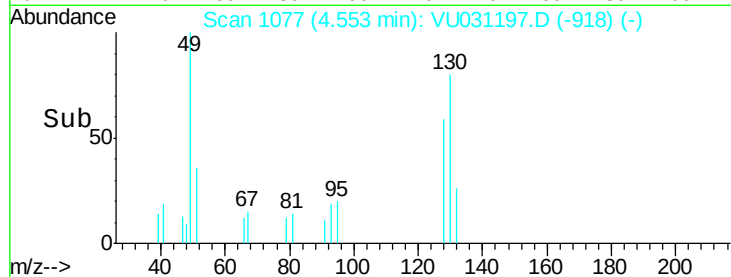
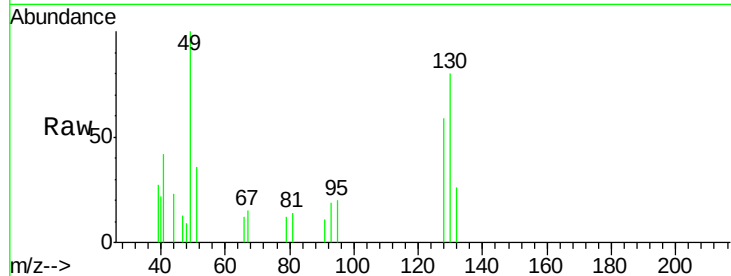
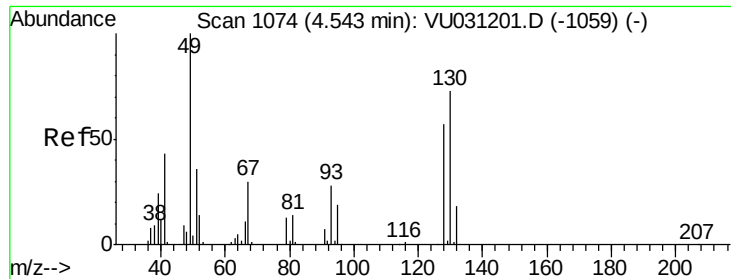
1000

500

0

Time--> 6.40 6.45 6.50





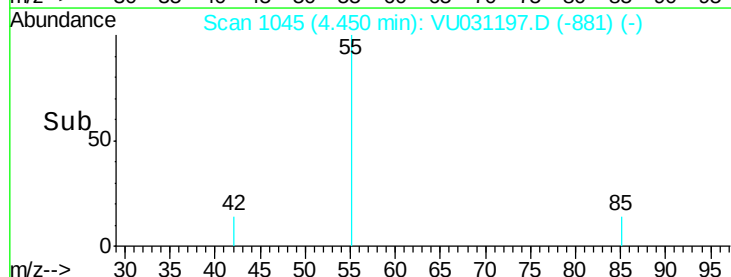
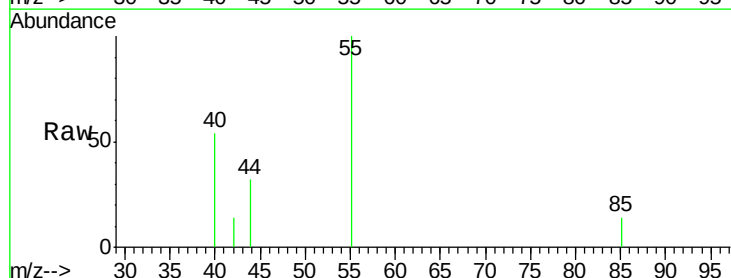
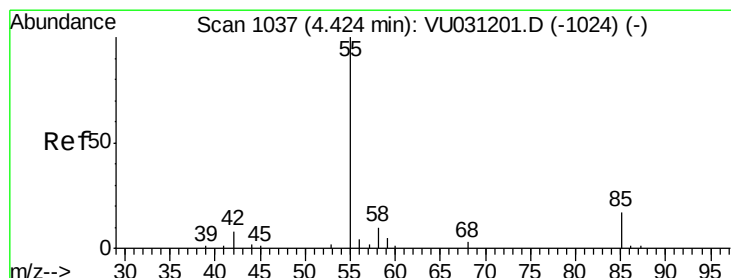
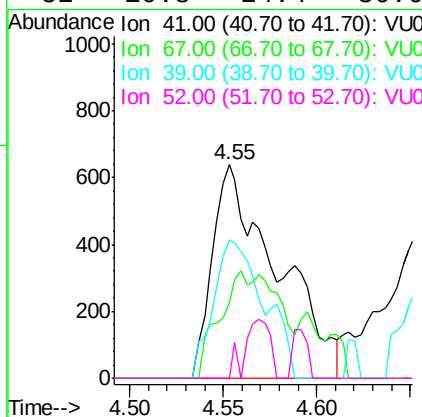
#39
Methacrylonitrile
Concen: 0.402 ug/l m
RT: 4.55 min Scan# 1077
Delta R.T. 0.01 min
Lab File: VU031197.D
Acq: 15 Apr 2019 19:14

Tot Ion	Ratio	Lower	Upper
41	100		
67	25.8	59.7	89.5#
39	50.7	42.2	63.2
52	10.8	24.4	36.6#

Instrument :
MSVOA_U
ClientSampled :
VSTDIC0.5

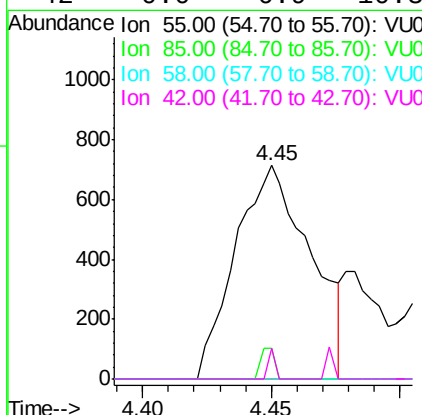
Manual Integrations
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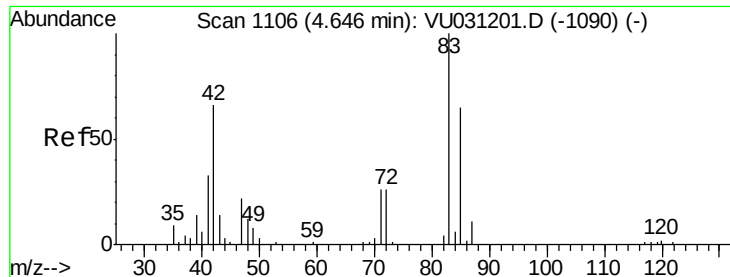
MMDadoda
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#40
Methyl acrylate
Concen: 0.310 ug/l
RT: 4.45 min Scan# 1045
Delta R.T. 0.03 min
Lab File: VU031197.D
Acq: 15 Apr 2019 19:14

Tgt Ion	Ratio	Lower	Upper
55	100		
85	0.0	12.2	18.2#
58	0.0	7.0	10.6#
42	0.0	6.9	10.3#





#41

Tetrahydrofuran

Concen: 0.739 ug/l

RT: 4.65 min Scan# 1108

Delta R.T. 0.01 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

Instrument :

MSVOA_U

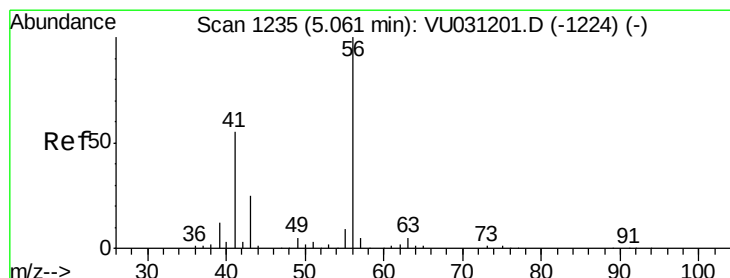
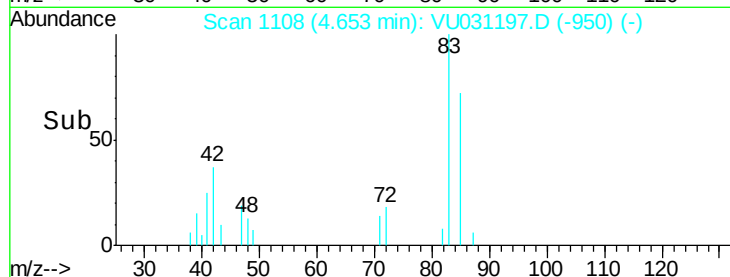
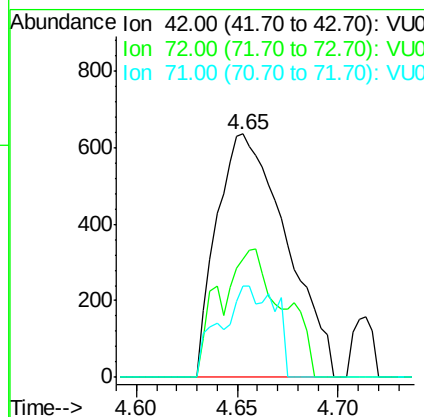
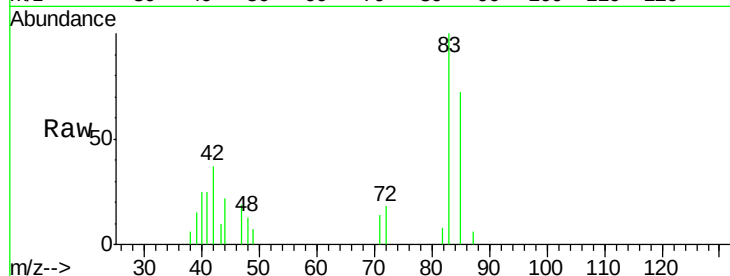
ClientSampleId :

VSTDIC0.5

Tot Ion:	42	Resp:	1516
Ion	Ratio	Lower	Upper
42	100		
72	38.3	34.4	51.6
71	21.8	32.0	48.0#

Manual Integrations
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4/16/2019 3:23:06 PM



#42

1-Chlorobutane

Concen: 0.482 ug/l

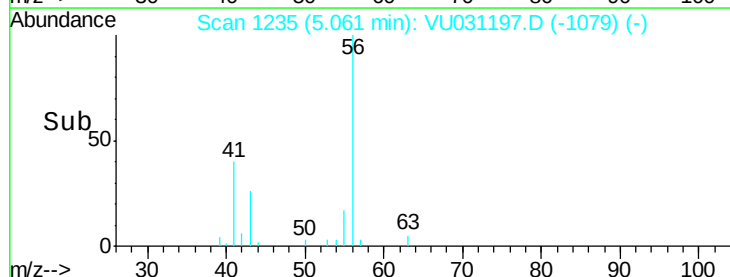
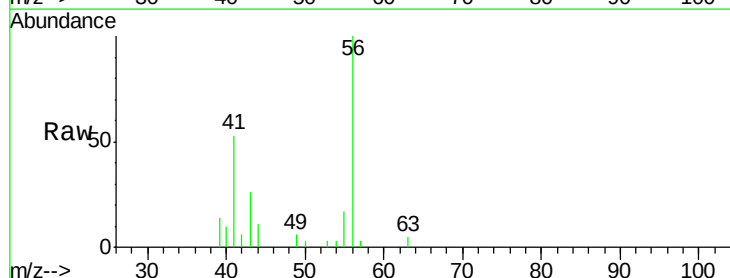
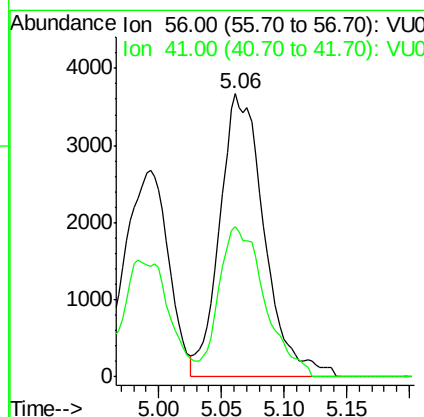
RT: 5.06 min Scan# 1235

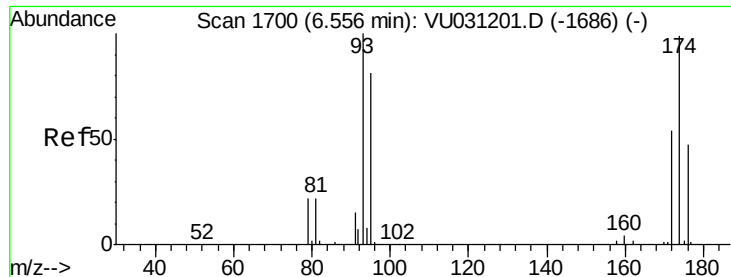
Delta R.T. 0.00 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

Tgt Ion:	56	Resp:	9041
Ion	Ratio	Lower	Upper
56	100		
41	55.0	27.3	81.9





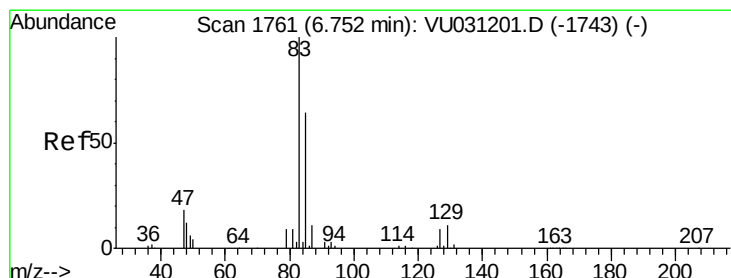
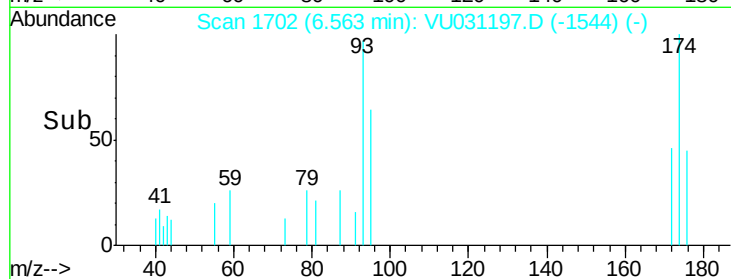
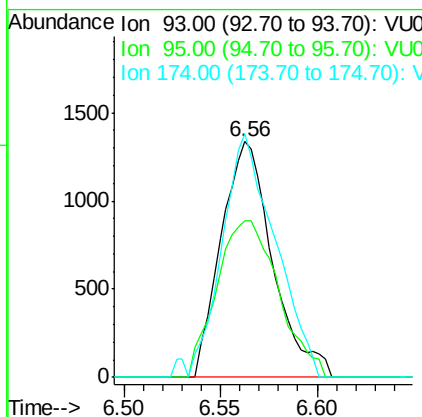
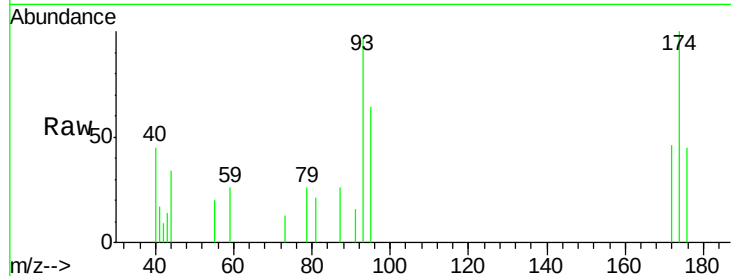
#43
Dibromomethane
Concen: 0.504 ug/l
RT: 6.56 min Scan# 1702
Delta R.T. 0.01 min
Lab File: VU031197.D
Acq: 15 Apr 2019 19:14

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC0.5

Tot Ion: 93 Resp: 2472
Ion Ratio Lower Upper
93 100
95 79.9 67.4 101.0
174 106.1 79.1 118.7

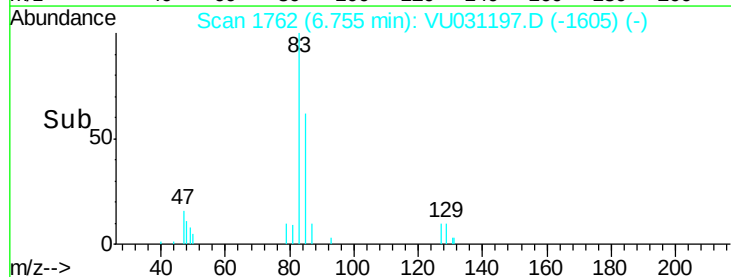
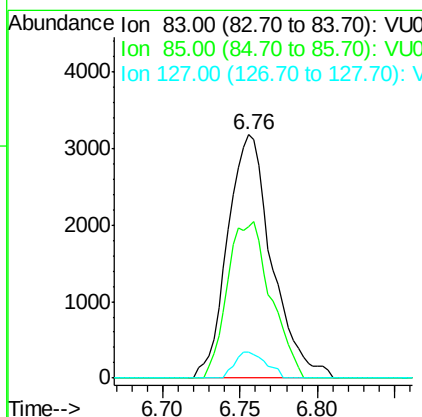
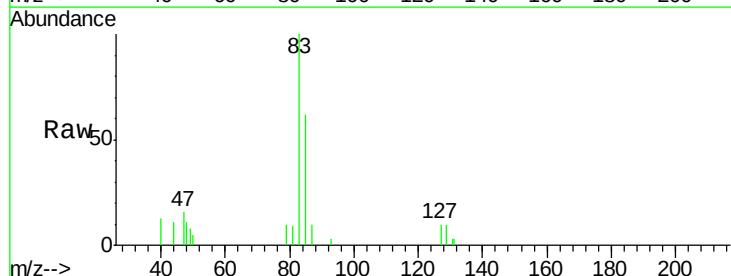
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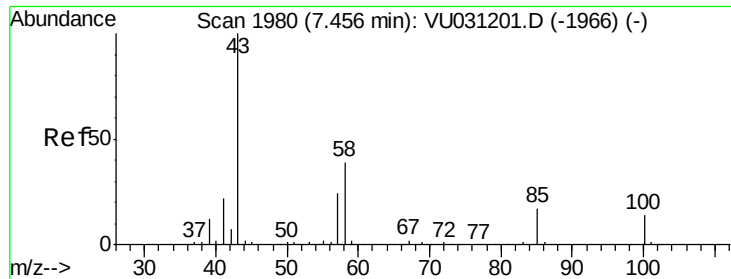
MMDadoda
4/16/2019 3:23:06 PM



#44
Bromodichloromethane
Concen: 0.493 ug/l
RT: 6.76 min Scan# 1762
Delta R.T. 0.00 min
Lab File: VU031197.D
Acq: 15 Apr 2019 19:14

Tgt Ion: 83 Resp: 6308
Ion Ratio Lower Upper
83 100
85 62.1 51.0 76.6
127 10.5 7.4 11.0





#45

4-Methyl-2-Pentanone

Concen: 1.831 ug/l

RT: 7.47 min Scan# 1983

Delta R.T. 0.01 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

Instrument :

MSVOA_U

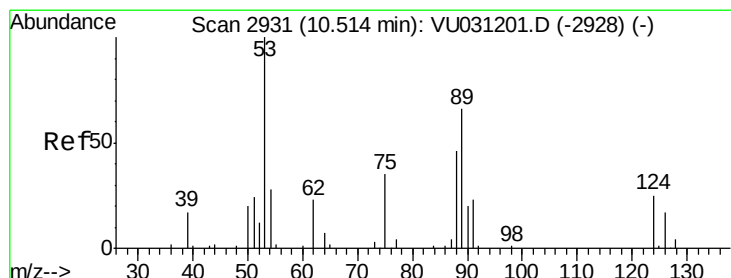
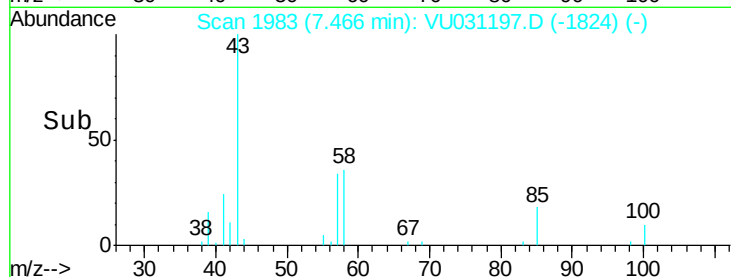
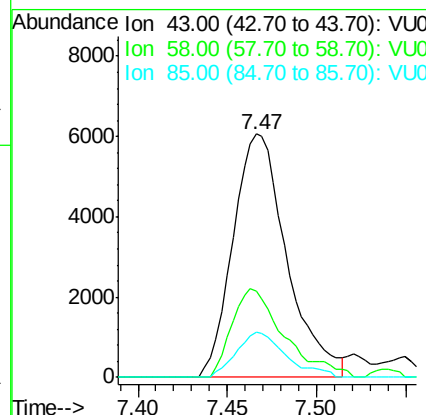
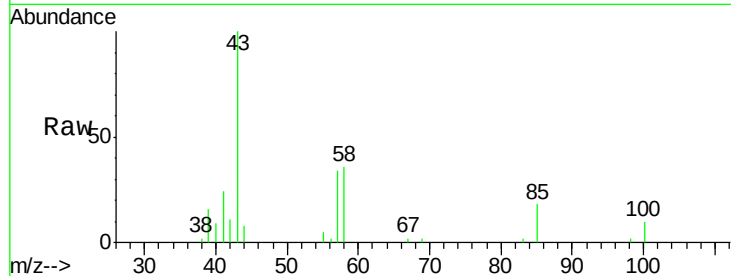
ClientSampleId :

VSTDIC0.5

Tot Ion:	43	Resp:	12759
Ion	Ratio	Lower	Upper
43	100		
58	35.3	19.4	58.2
85	17.1	13.2	19.8

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#46

t-1,4-Dichloro-2-butene

Concen: 0.850 ug/l m

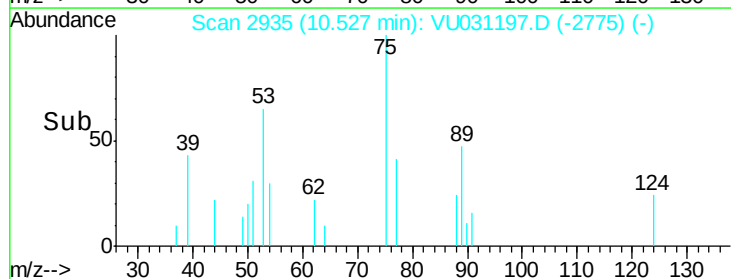
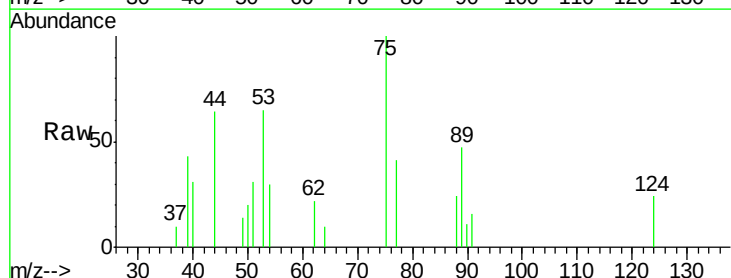
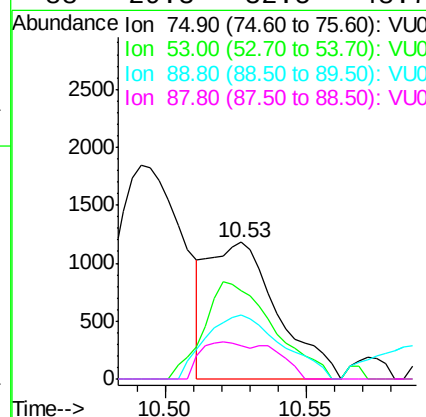
RT: 10.53 min Scan# 2935

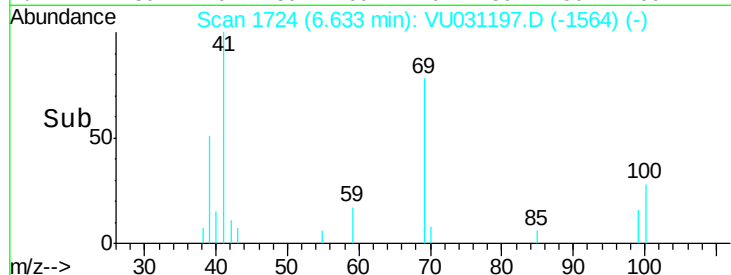
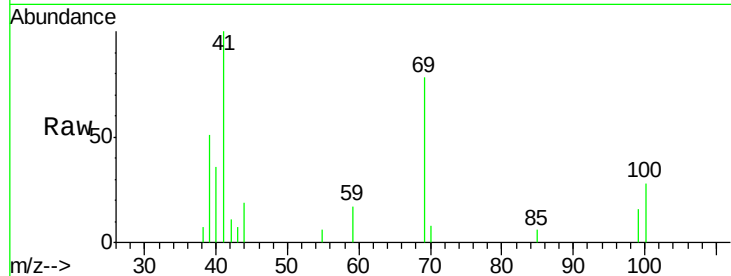
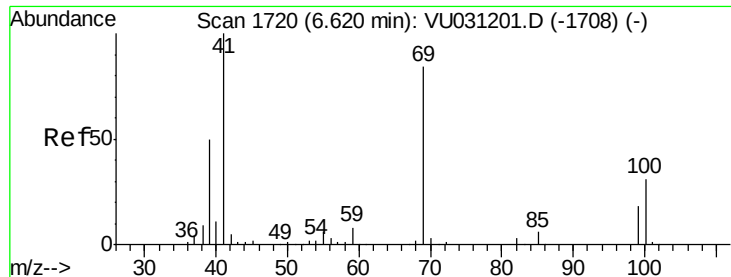
Delta R.T. 0.01 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

Tgt Ion:	75	Resp:	2040
Ion	Ratio	Lower	Upper
75	100		
53	70.7	65.2	97.8
89	51.3	43.0	64.4
88	29.3	32.5	48.7#





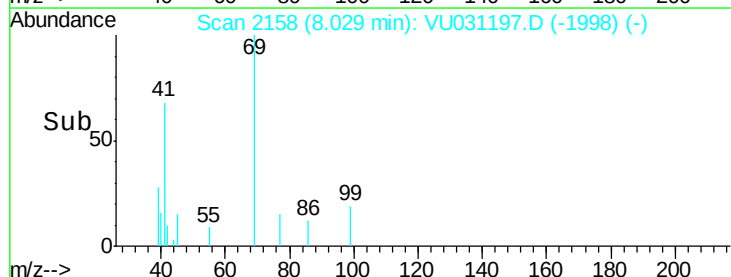
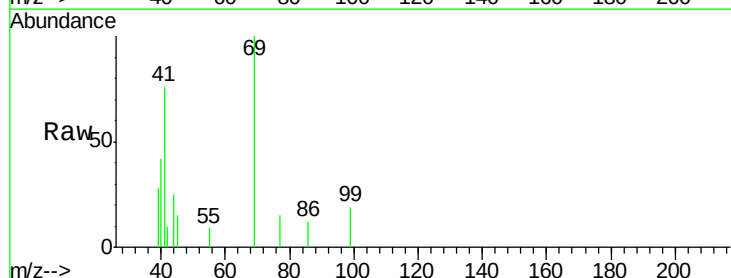
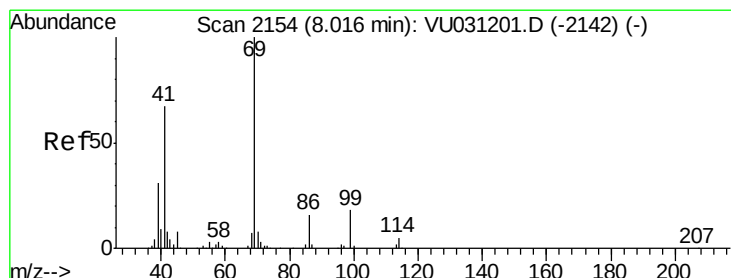
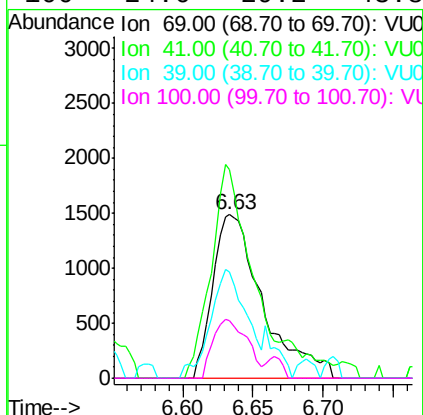
#47
Methyl methacrylate
Concen: 0.819 ug/l
RT: 6.63 min Scan# 1724
Delta R.T. 0.01 min
Lab File: VU031197.D
Acq: 15 Apr 2019 19:14

Tot Ion	Ion	Ratio	Resp	Lower	Upper
69	100		3658		
41	102.7	0.0	237.2		
39	47.8	47.4	71.2		
100	24.6	29.2	43.8		

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC0.5

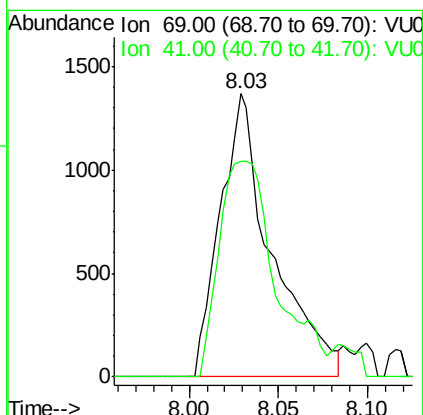
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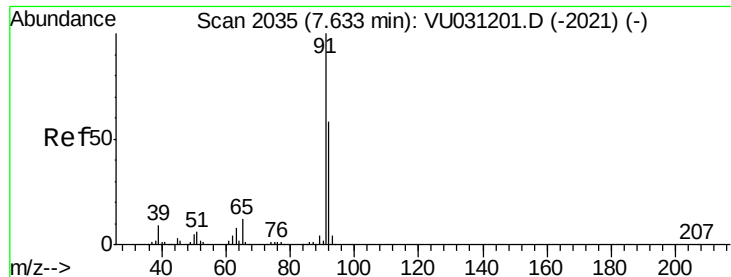
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#48
Ethyl methacrylate
Concen: 0.327 ug/l
RT: 8.03 min Scan# 2158
Delta R.T. 0.01 min
Lab File: VU031197.D
Acq: 15 Apr 2019 19:14

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		2738		
41	84.4	32.5	97.5		





#49

Toluene

Concen: 0.438 ug/l

RT: 7.64 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tot Ion: 92 Resp: 8755

Ion Ratio Lower Upper

92 100

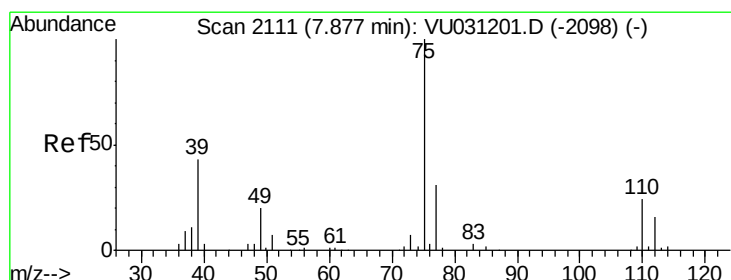
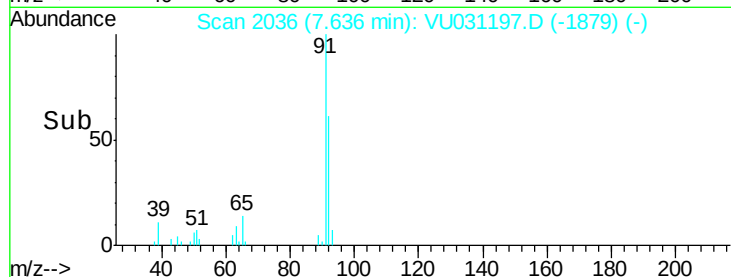
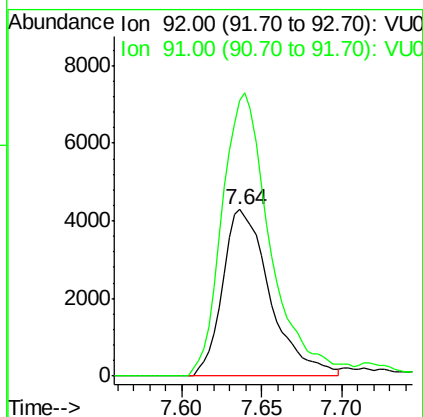
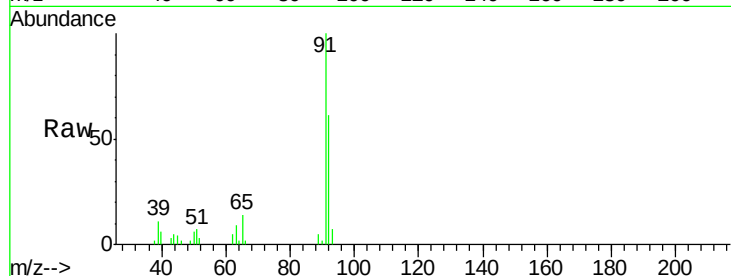
91 172.4 140.2 210.4

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#50

t-1,3-Dichloropropene

Concen: 0.428 ug/l

RT: 7.89 min Scan# 2114

Delta R.T. 0.01 min

Lab File: VU031197.D

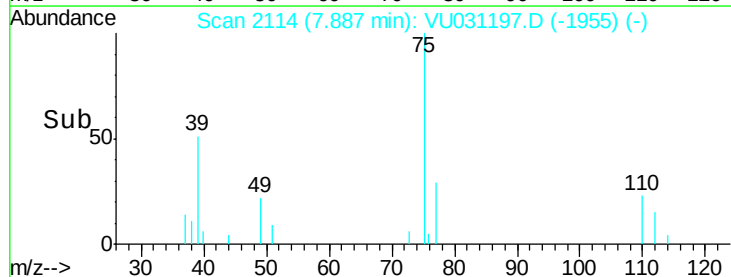
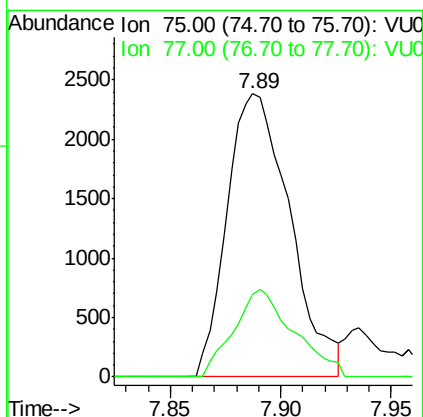
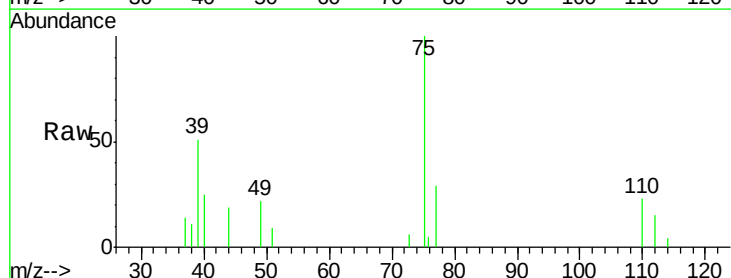
Acq: 15 Apr 2019 19:14

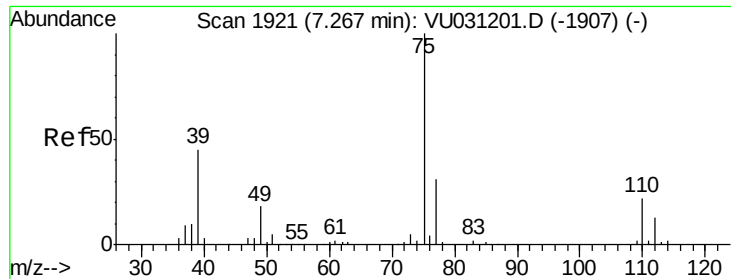
Tgt Ion: 75 Resp: 4701

Ion Ratio Lower Upper

75 100

77 29.2 24.6 37.0





#51

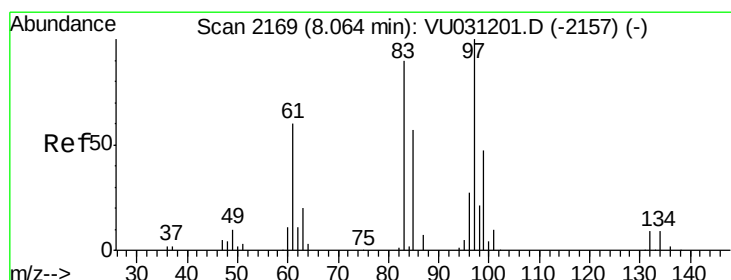
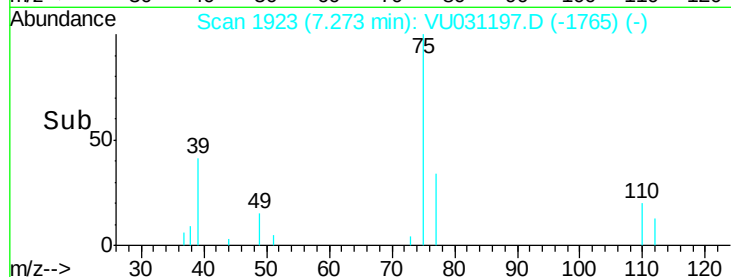
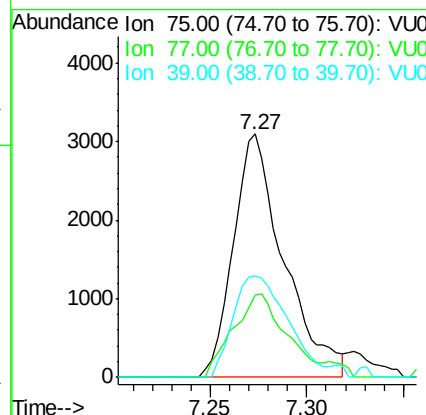
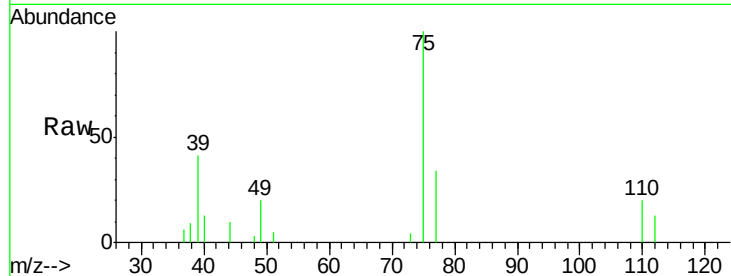
cis-1,3-Dichloropropene
Concen: 0.424 ug/l
RT: 7.27 min Scan# 1923
Delta R.T. 0.01 min
Lab File: VU031197.D
Acq: 15 Apr 2019 19:14

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
75	100		
77	33.6	24.6	37.0
39	41.5	36.1	54.1

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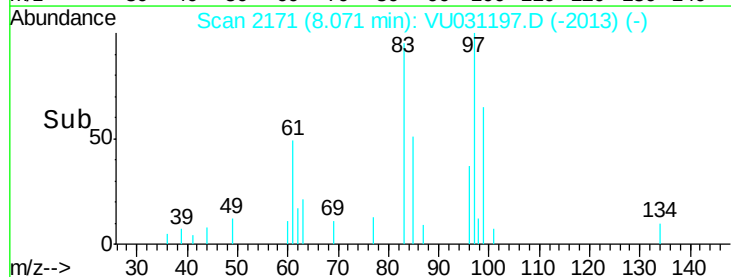
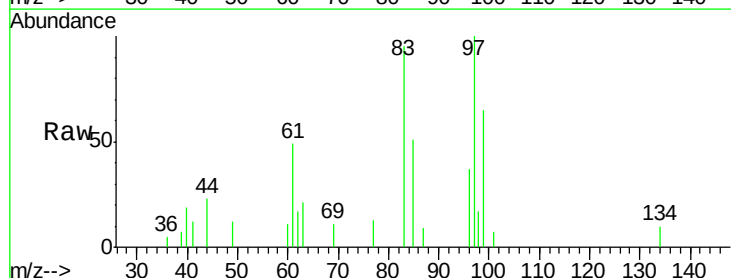
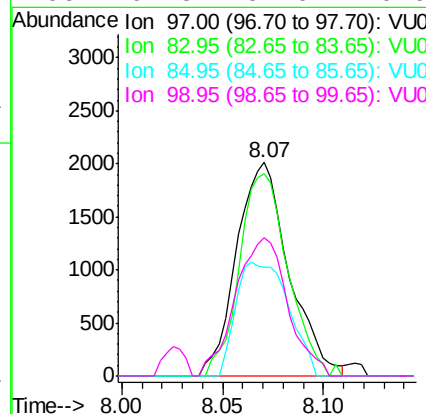
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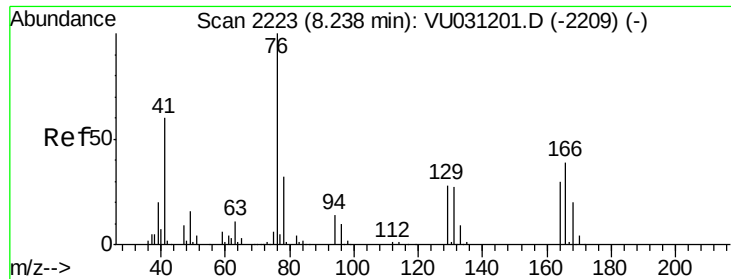


#52

1,1,2-Trichloroethane
Concen: 0.524 ug/l
RT: 8.07 min Scan# 2171
Delta R.T. 0.01 min
Lab File: VU031197.D
Acq: 15 Apr 2019 19:14

Tgt Ion	Ratio	Lower	Upper
97	100		
83	94.6	71.5	107.3
85	51.2	46.7	70.1
99	64.8	51.0	76.6





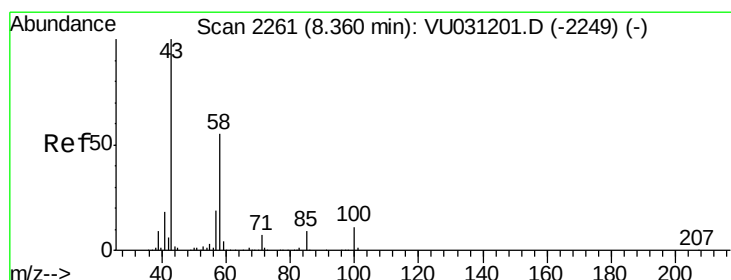
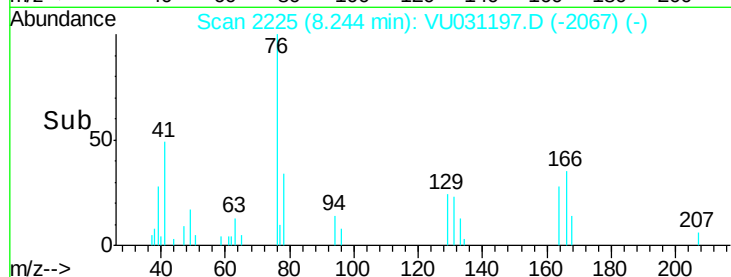
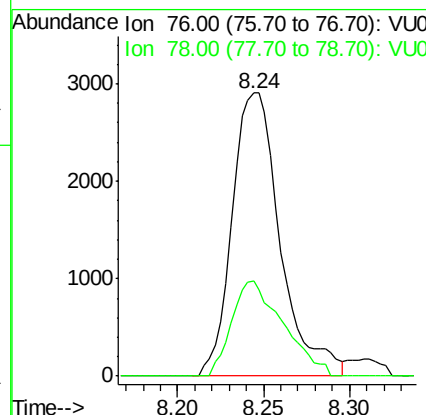
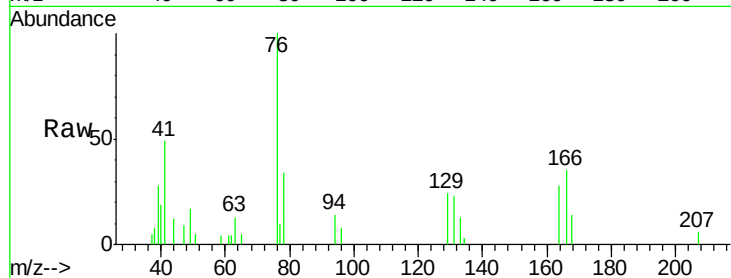
#53
 1,3-Dichloropropane
 Concen: 0.462 ug/l
 RT: 8.24 min Scan# 2225
 Delta R.T. 0.01 min
 Lab File: VU031197.D
 Acq: 15 Apr 2019 19:14

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
76	100		
78	35.9	25.3	37.9

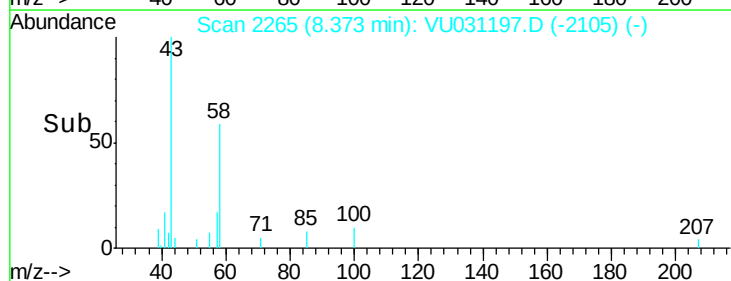
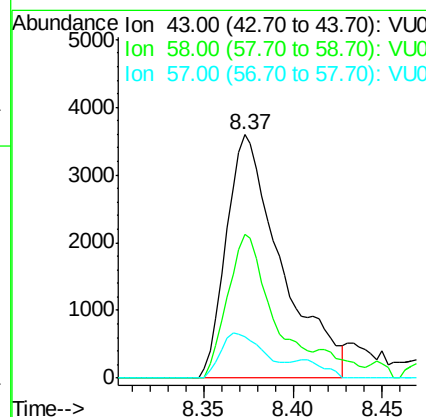
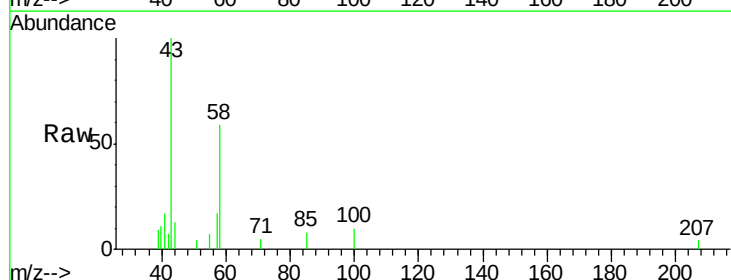
Manual Integrations
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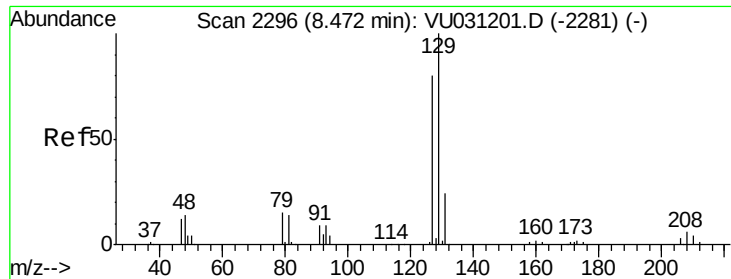
MMDadoda
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#54
 2-Hexanone
 Concen: 1.667 ug/l
 RT: 8.37 min Scan# 2265
 Delta R.T. 0.01 min
 Lab File: VU031197.D
 Acq: 15 Apr 2019 19:14

Tgt Ion	Ratio	Lower	Upper
43	100		
58	47.8	35.5	75.5
57	15.1	0.0	38.7





#55

Dibromochloromethane

Concen: 0.534 ug/l

RT: 8.48 min Scan# 2297

Delta R.T. 0.00 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tot Ion:129 Resp: 4239

Ion Ratio Lower Upper

129 100

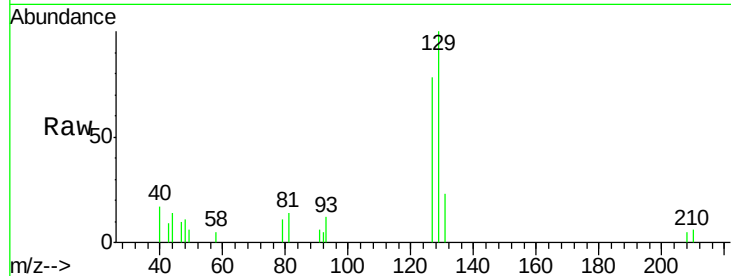
127 77.1 62.2 93.2

Manual Integrations

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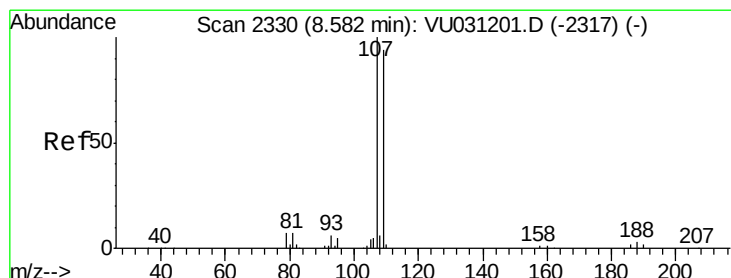
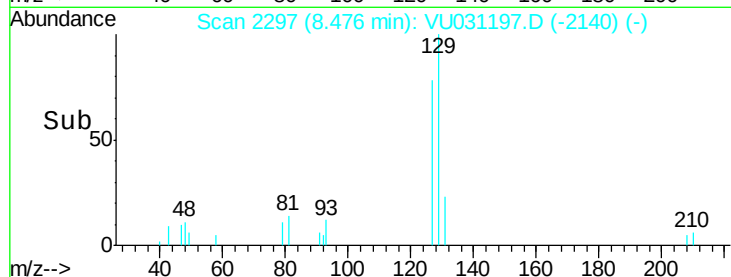
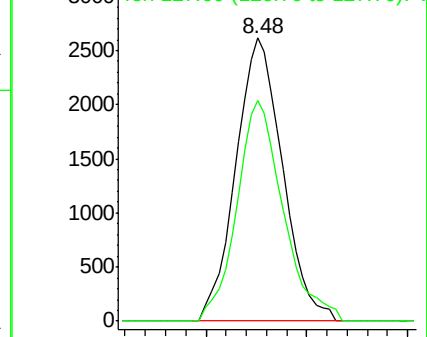
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Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#56

1,2-Dibromoethane

Concen: 0.466 ug/l

RT: 8.59 min Scan# 2332

Delta R.T. 0.01 min

Lab File: VU031197.D

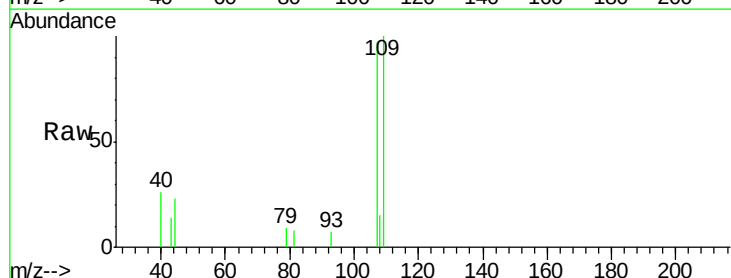
Acq: 15 Apr 2019 19:14

Tgt Ion:107 Resp: 2939

Ion Ratio Lower Upper

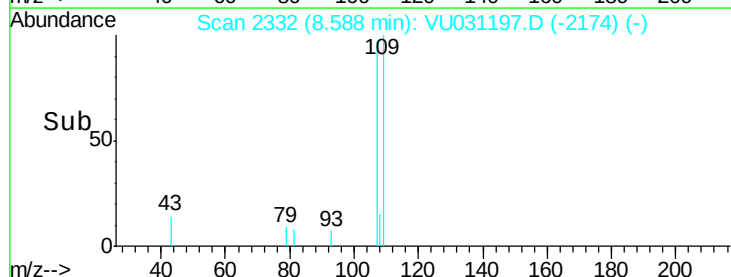
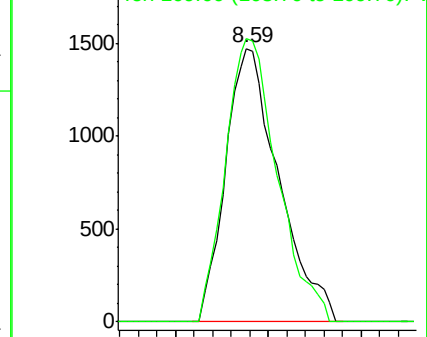
107 100

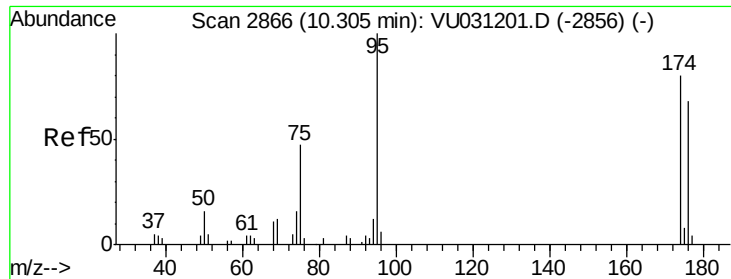
109 101.1 0.0 189.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#57

4-Bromofluorobenzene

Concen: 0.466 ug/l

RT: 10.31 min Scan# 2867

Delta R.T. 0.00 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

Instrument :

MSVOA_U

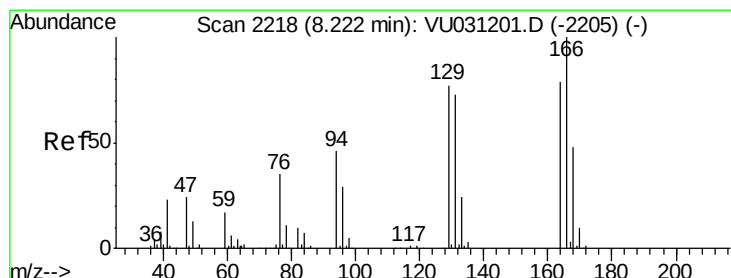
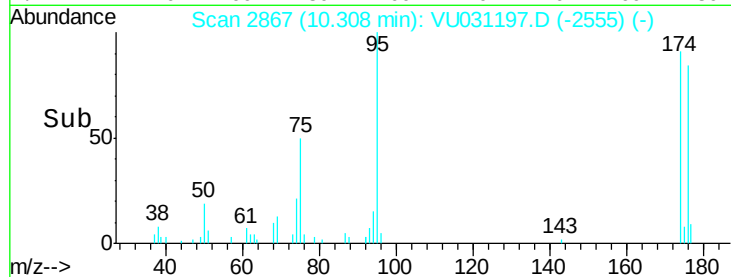
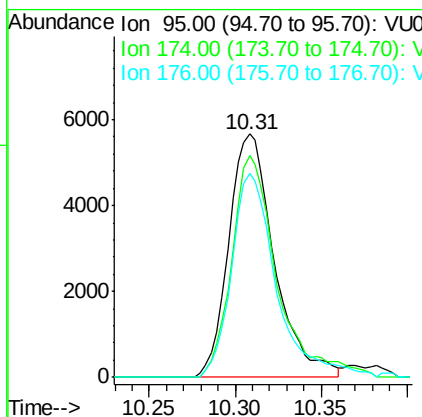
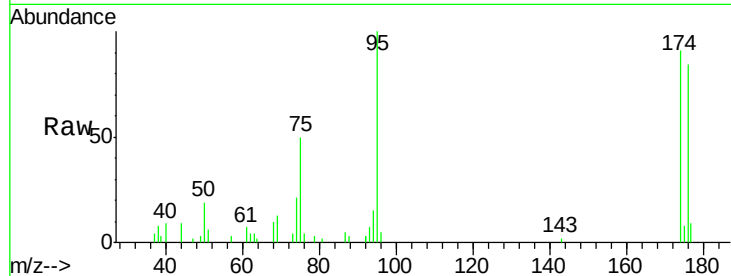
ClientSampleId :

VSTDIC0.5

Tot Ion:	95	Resp:	10484
Ion Ratio	Lower	Upper	
95	100		
174	90.7	64.2	96.2
176	82.4	58.0	87.0

Manual Integrations
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#58

Tetrachloroethene

Concen: 0.567 ug/l

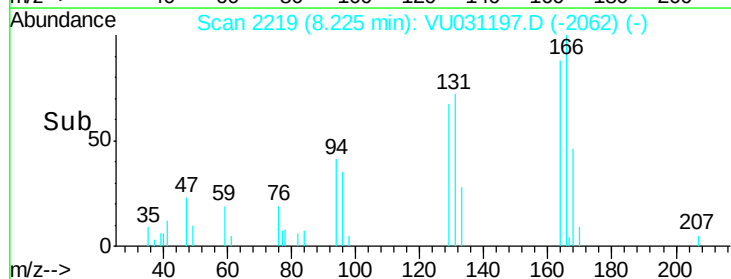
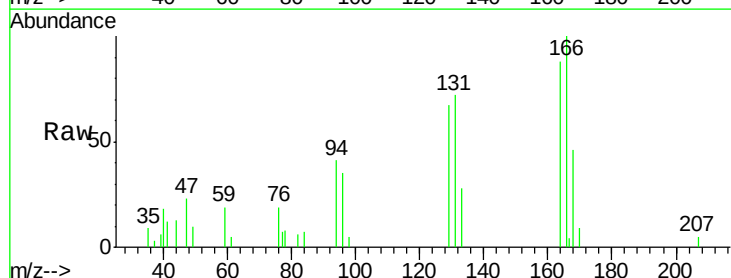
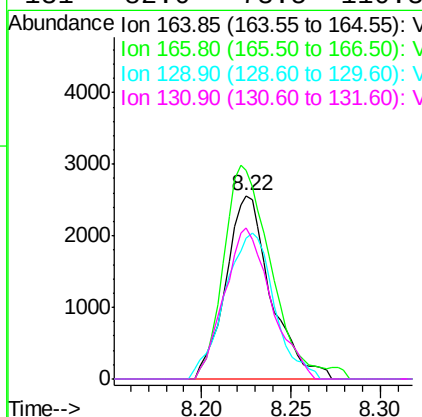
RT: 8.22 min Scan# 2219

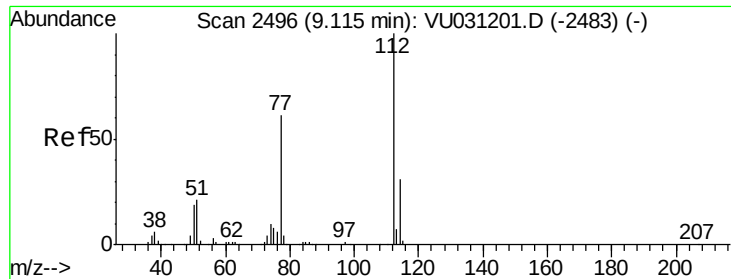
Delta R.T. 0.00 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

Tgt Ion:	164	Resp:	4490
Ion Ratio	Lower	Upper	
164	100		
166	113.5	100.9	151.3
129	76.4	77.6	116.4#
131	82.0	73.5	110.3





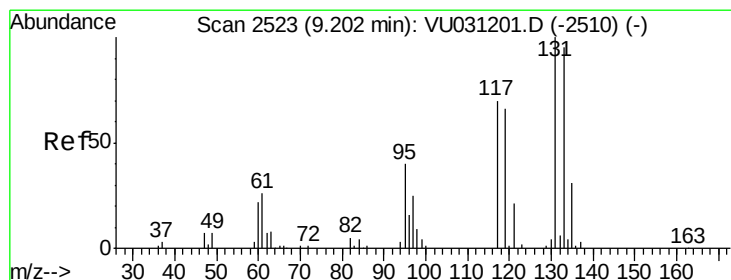
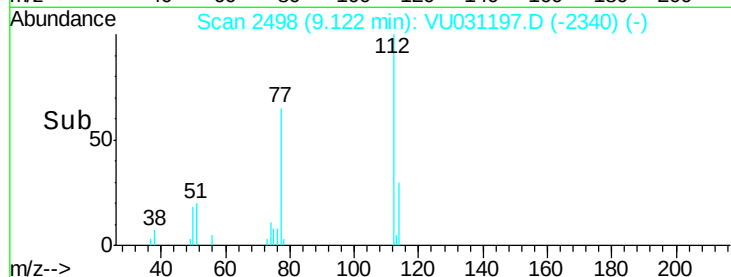
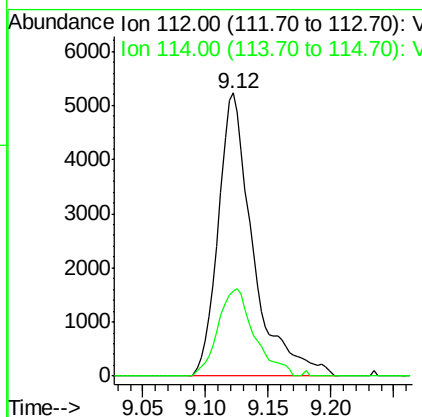
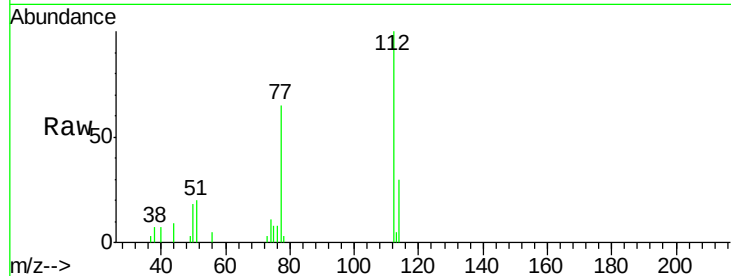
#59
Chlorobenzene
Concen: 0.461 ug/l
RT: 9.12 min Scan# 2498
Delta R.T. 0.01 min
Lab File: VU031197.D
Acq: 15 Apr 2019 19:14

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
112	100		
114	30.1	24.4	36.6

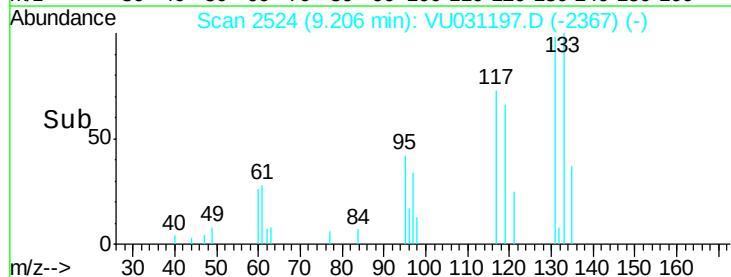
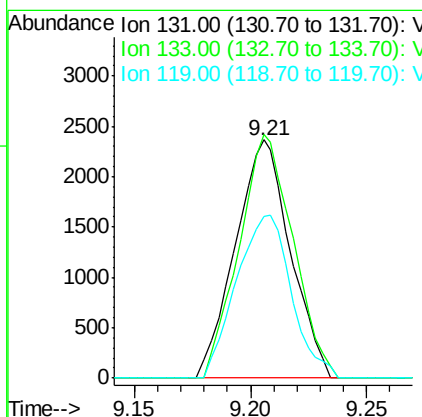
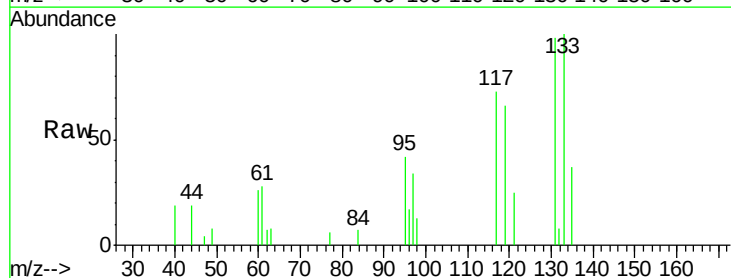
Manual Integrations
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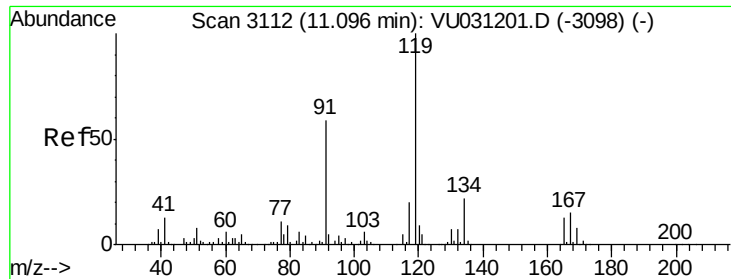
MMDadoda
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#60
1,1,1,2-Tetrachloroethane
Concen: 0.471 ug/l
RT: 9.21 min Scan# 2524
Delta R.T. 0.00 min
Lab File: VU031197.D
Acq: 15 Apr 2019 19:14

Tgt Ion	Ratio	Lower	Upper
131	100		
133	100.1	77.2	115.8
119	68.2	51.4	77.2





#61

Pentachloroethane

Concen: 0.557 ug/l

RT: 11.10 min Scan# 3113

Delta R.T. 0.00 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tot Ion:117 Resp: 3519

Ion Ratio Lower Upper

117 100

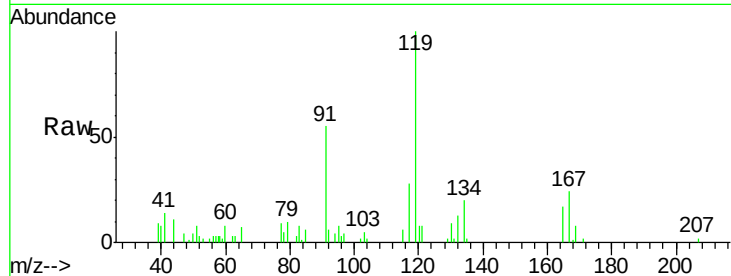
167 75.8 63.1 94.7

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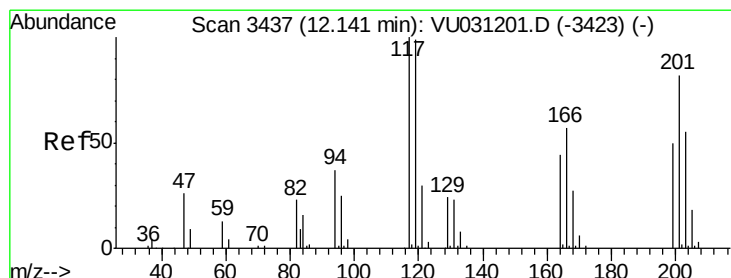
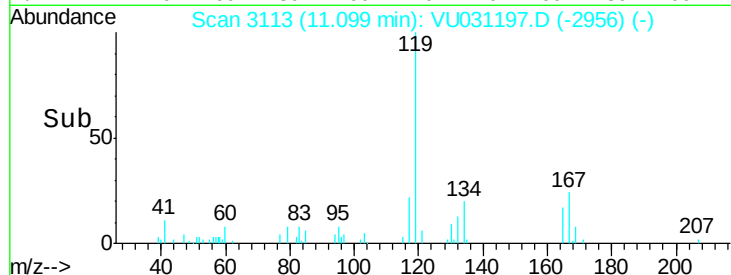
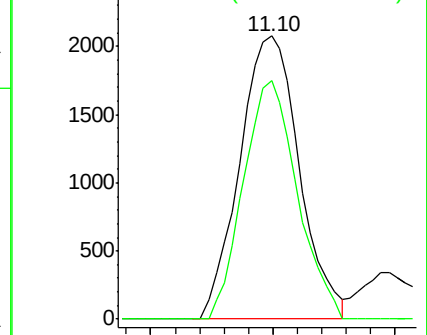
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Abundance Ion 116.80 (116.50 to 117.50): V

Ion 166.70 (166.40 to 167.40): V



#62

Hexachloroethane

Concen: 0.540 ug/l

RT: 12.14 min Scan# 3437

Delta R.T. 0.00 min

Lab File: VU031197.D

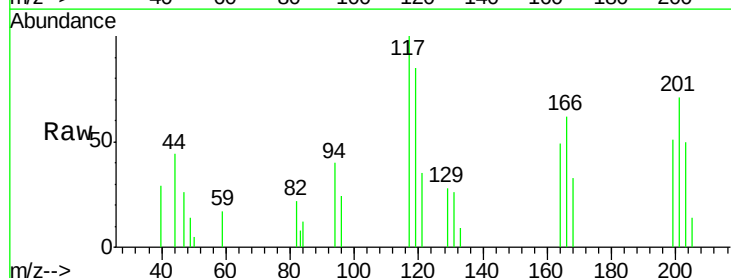
Acq: 15 Apr 2019 19:14

Tgt Ion:117 Resp: 3244

Ion Ratio Lower Upper

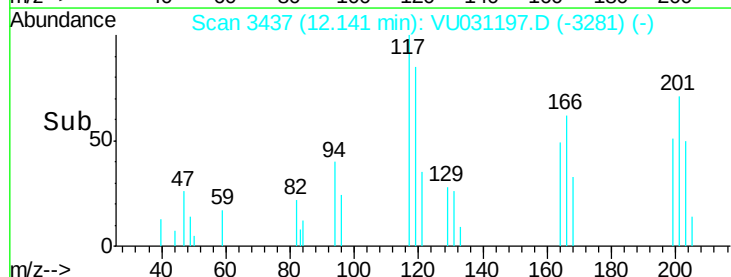
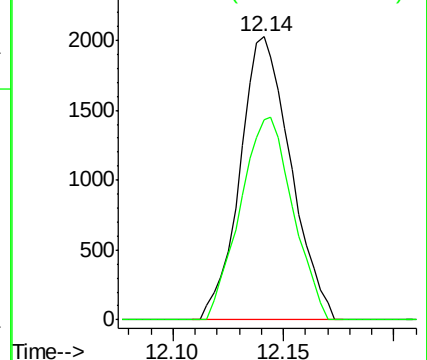
117 100

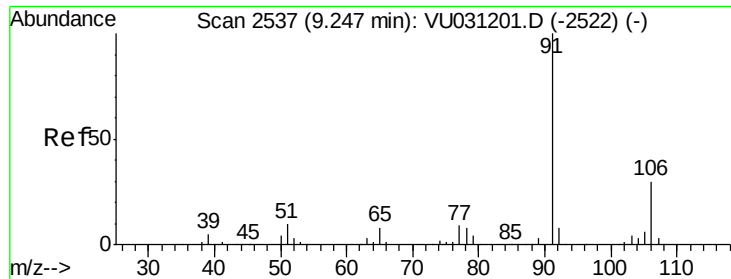
201 73.8 63.9 95.9



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.60 (200.30 to 201.30): V





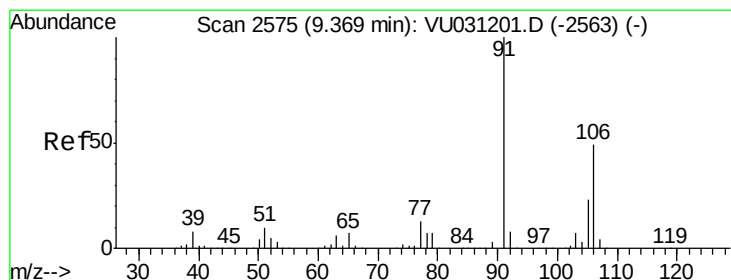
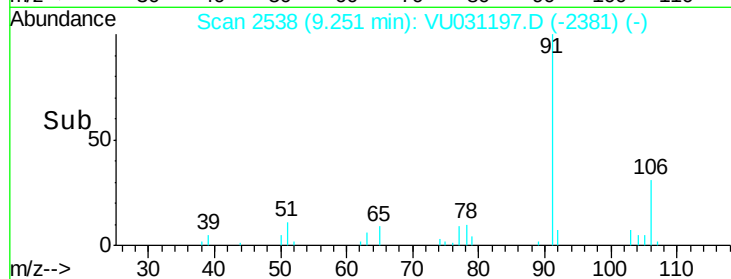
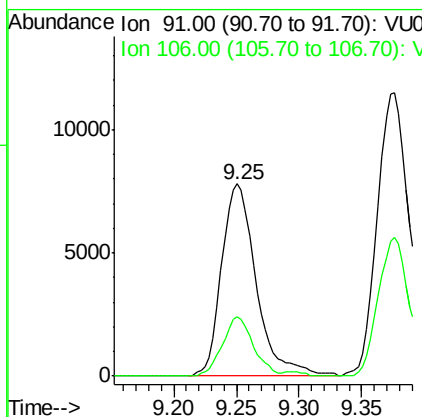
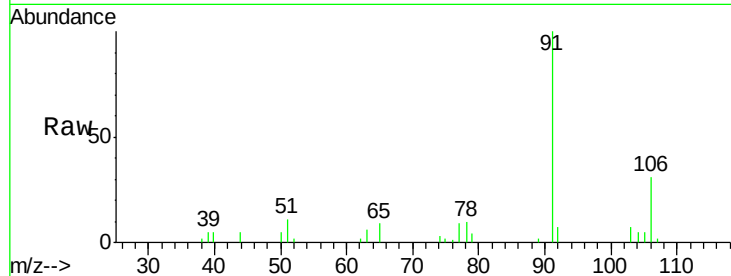
#63
Ethyl Benzene
Concen: 0.414 ug/l
RT: 9.25 min Scan# 2538
Delta R.T. 0.00 min
Lab File: VU031197.D
Acq: 15 Apr 2019 19:14

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC0.5

Tot Ion: 91 Resp: 14978
Ion Ratio Lower Upper
91 100
106 30.6 24.3 36.5

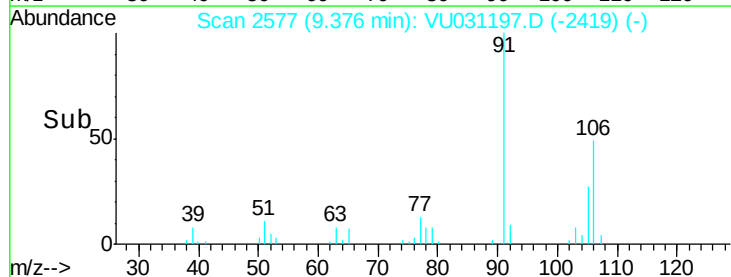
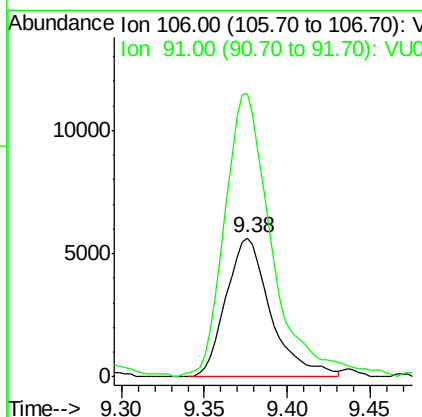
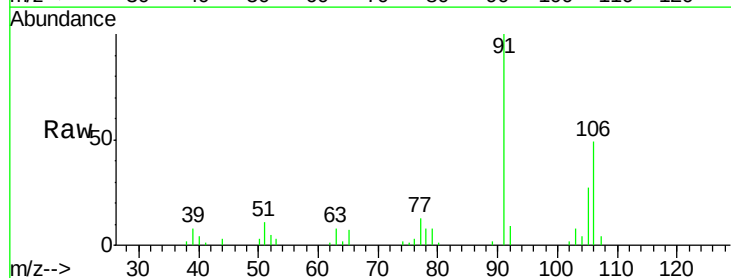
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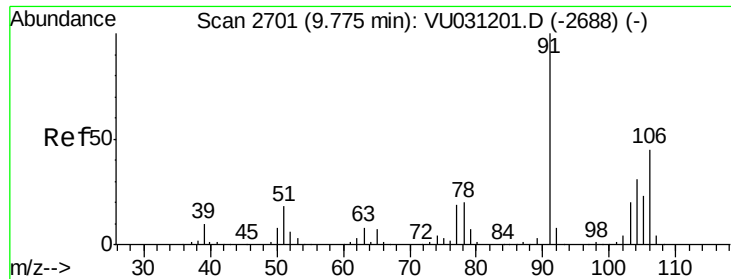
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#64
m/p-Xylenes
Concen: 0.800 ug/l
RT: 9.38 min Scan# 2577
Delta R.T. 0.01 min
Lab File: VU031197.D
Acq: 15 Apr 2019 19:14

Tgt Ion: 106 Resp: 10587
Ion Ratio Lower Upper
106 100
91 216.6 165.7 248.5





#65

o-Xylene

Concen: 0.414 ug/l

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tot Ion:106 Resp: 5326

Ion Ratio Lower Upper

106 100

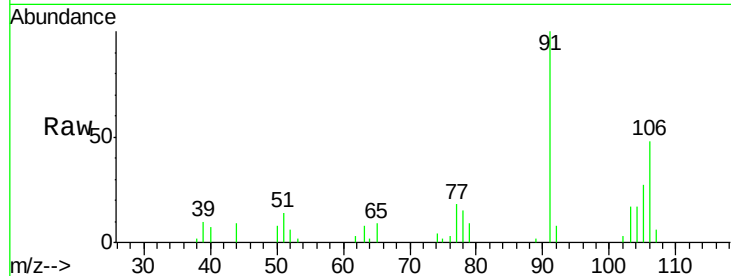
91 214.6 111.3 333.8

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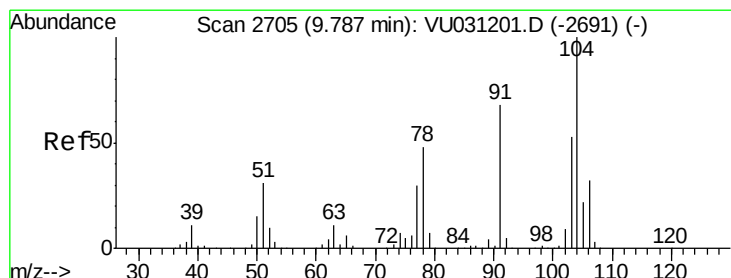
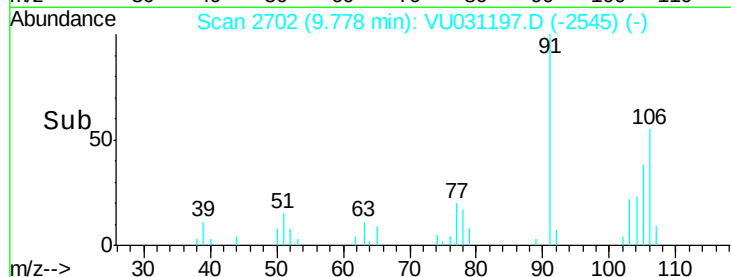
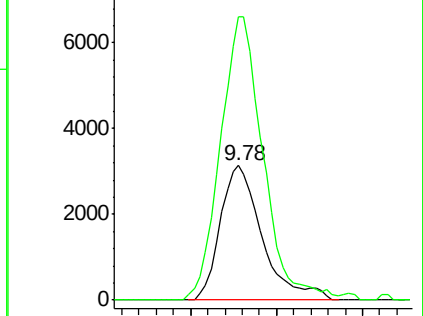
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#66

Styrene

Concen: 0.355 ug/l

RT: 9.79 min Scan# 2707

Delta R.T. 0.01 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

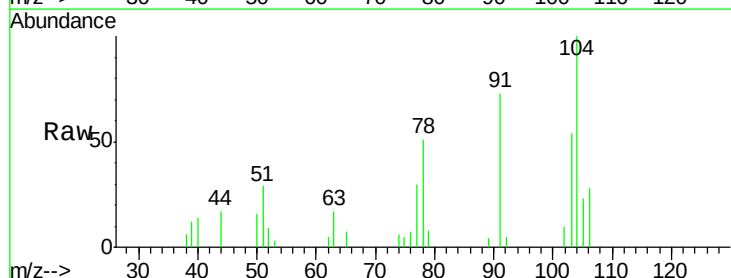
Tgt Ion:104 Resp: 7886

Ion Ratio Lower Upper

104 100

78 55.5 41.4 62.0

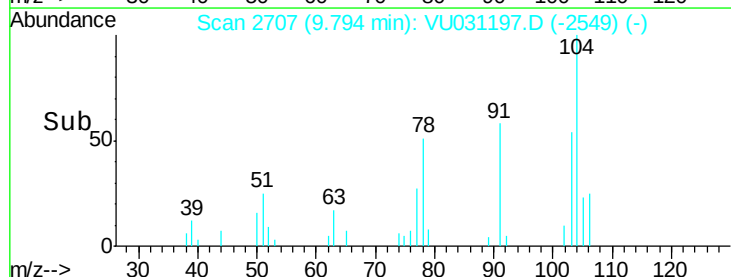
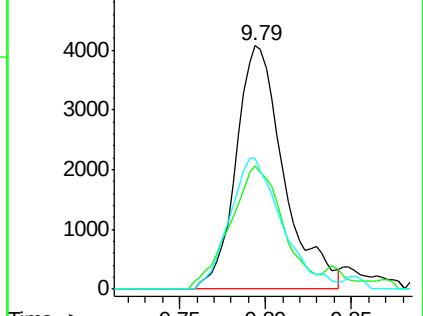
103 58.7 45.0 67.4

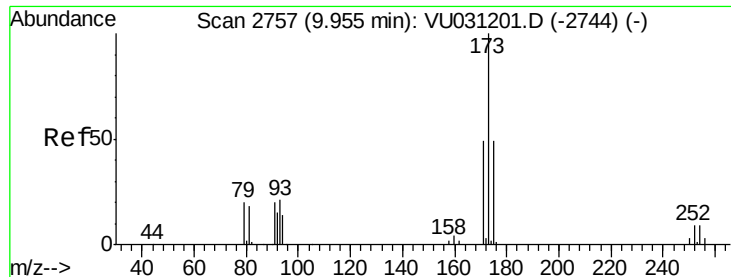


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

Ion 103.00 (102.70 to 103.70): V





#67

Bromoform

Concen: 0.514 ug/l

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

Instrument :

MSVOA_U

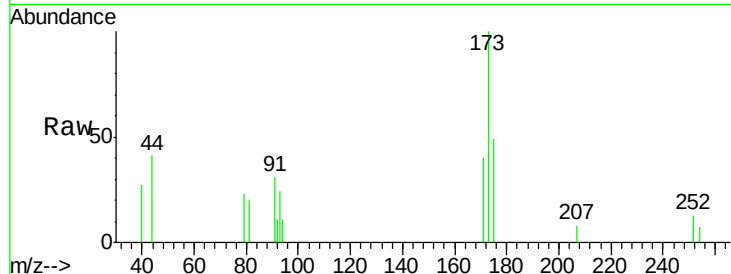
ClientSampleId :

VSTDIC0.5

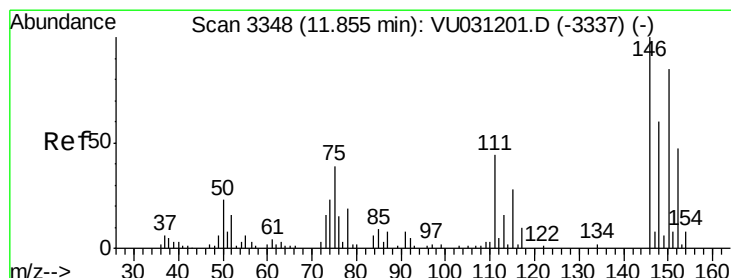
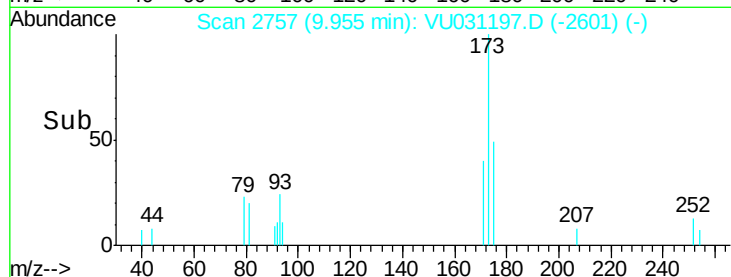
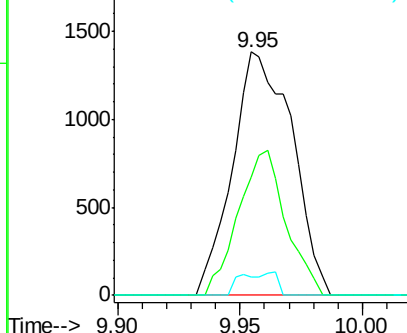
Tot Ion:	173	Resp:	2347
Ion Ratio	Lower	Upper	
173	100		
175	47.5	38.0	57.0
254	2.7	7.1	10.7#

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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: 0.514 ug/l

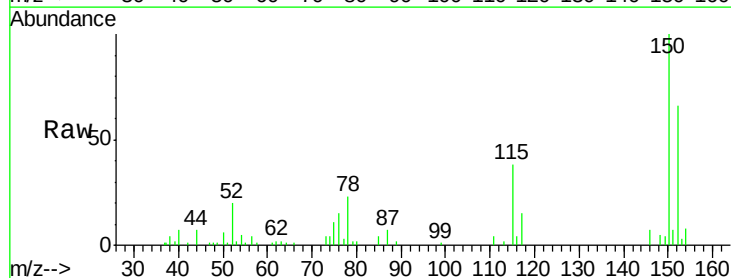
RT: 11.86 min Scan# 3349

Delta R.T. 0.00 min

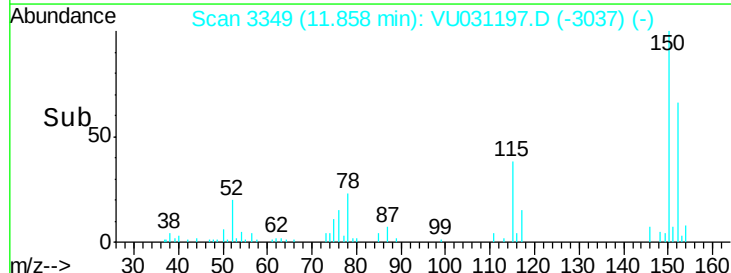
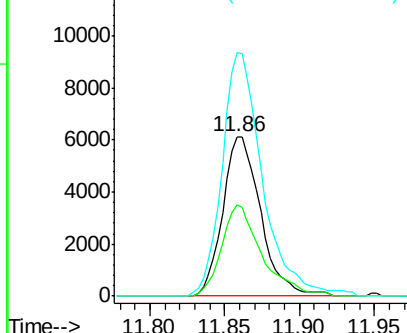
Lab File: VU031197.D

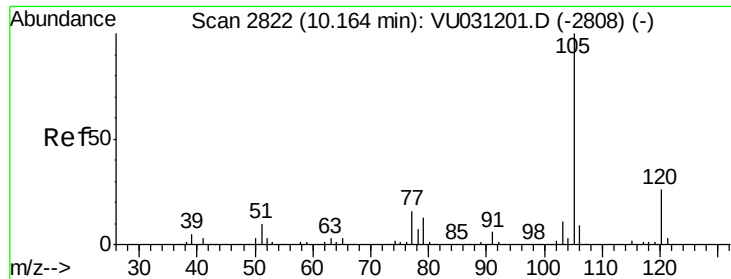
Acq: 15 Apr 2019 19:14

Tgt Ion:	152	Resp:	10825
Ion Ratio	Lower	Upper	
152	100		
115	60.6	0.0	130.0
150	163.1	0.0	639.0



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: 0.407 ug/l

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tot Ion:105 Resp: 13954

Ion Ratio Lower Upper

105 100

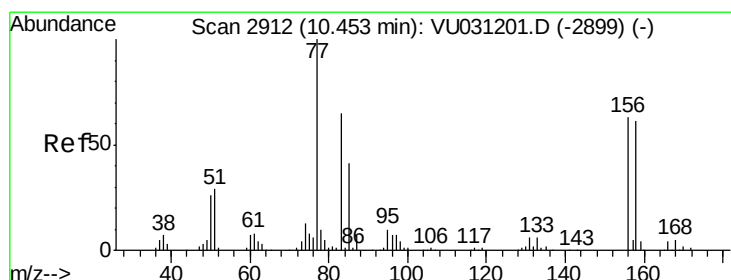
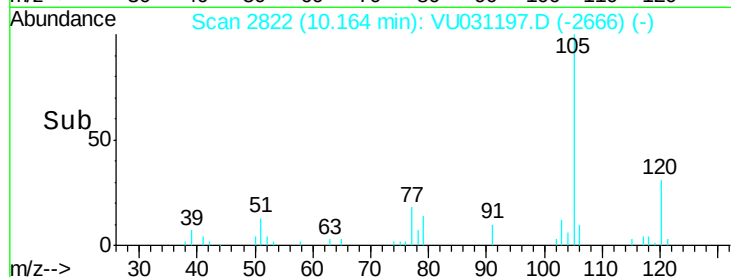
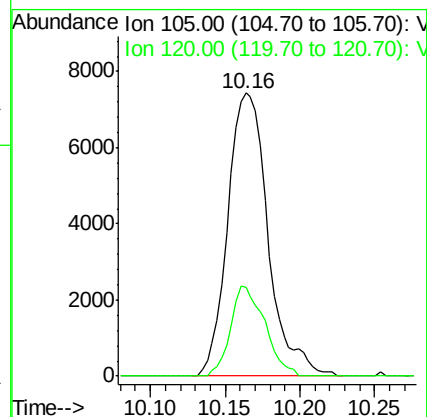
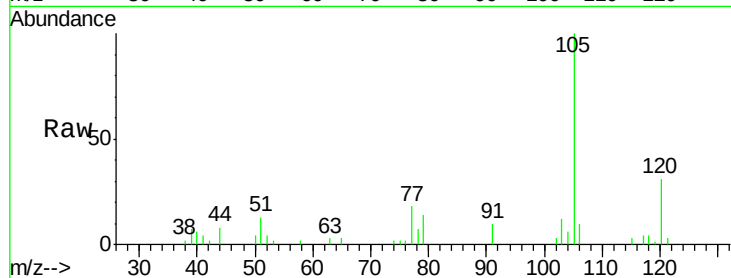
120 27.0 12.8 38.3

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#70

1,1,2,2-Tetrachloroethane

Concen: 0.506 ug/l

RT: 10.46 min Scan# 2913

Delta R.T. 0.00 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

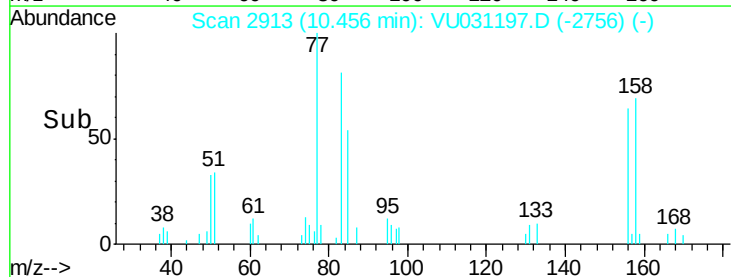
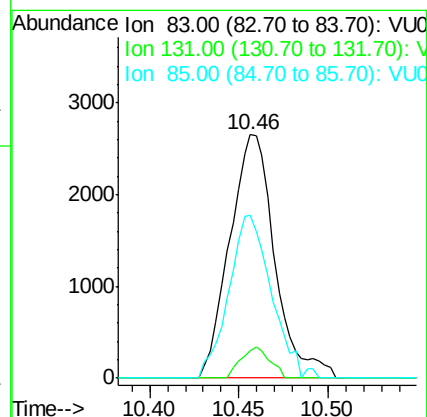
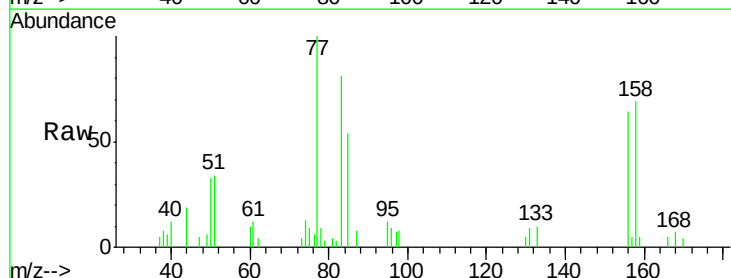
Tgt Ion: 83 Resp: 4651

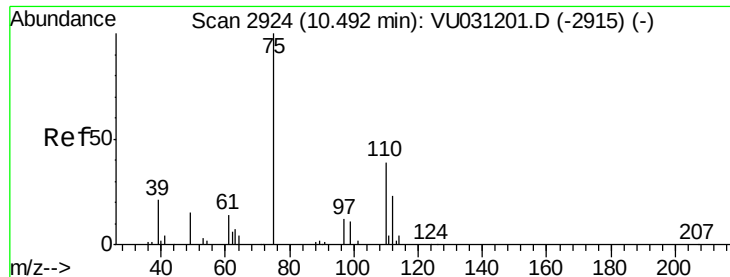
Ion Ratio Lower Upper

83 100

131 8.1 8.0 12.0

85 63.2 51.3 76.9





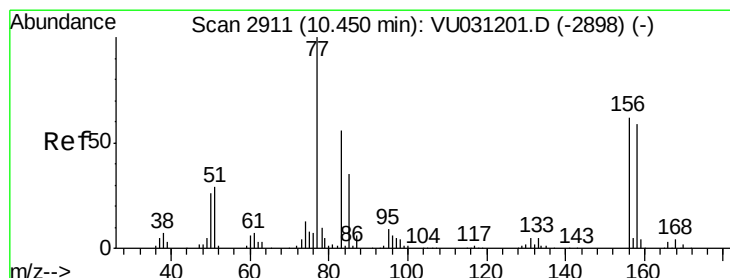
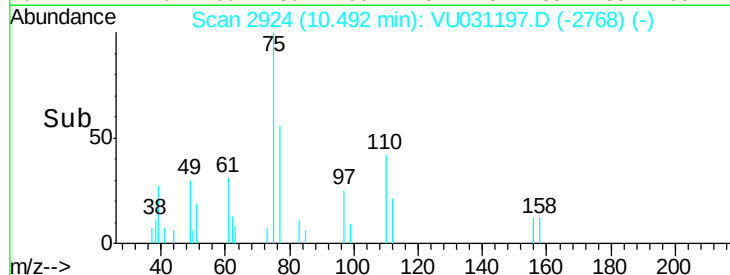
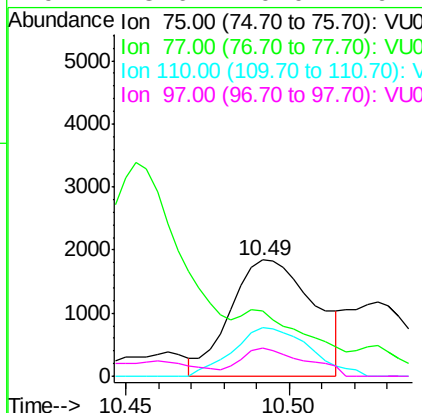
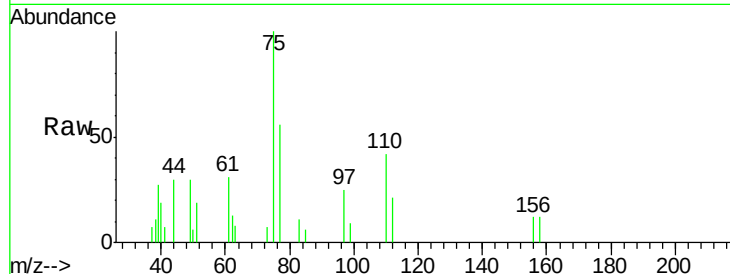
#71
 1,2,3-Trichloropropane
 Concen: 0.470 ug/l m
 RT: 10.49 min Scan# 2924
 Delta R.T. 0.00 min
 Lab File: VU031197.D
 Acq: 15 Apr 2019 19:14

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
75	100		
77	27.3	0.0	0.0#
110	38.2	0.0	71.0
97	18.6	0.0	40.4

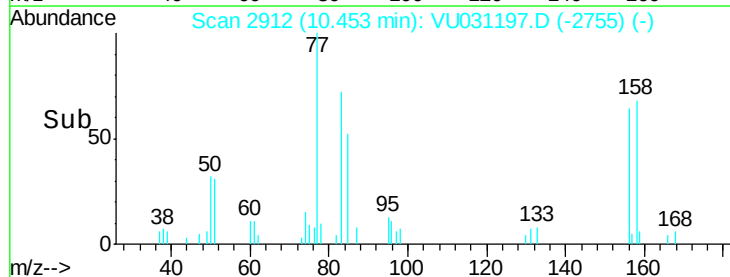
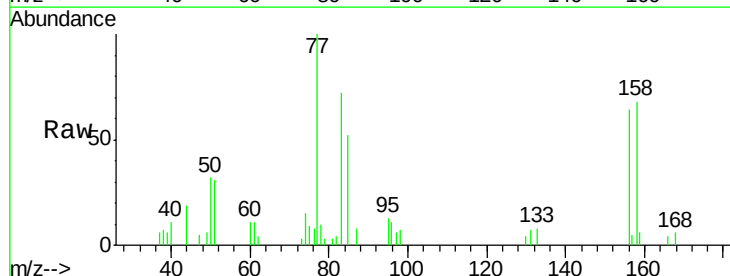
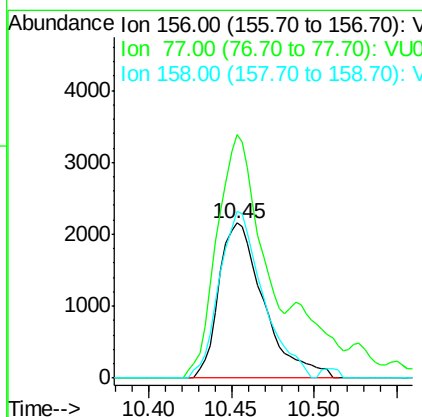
Manual Integrations
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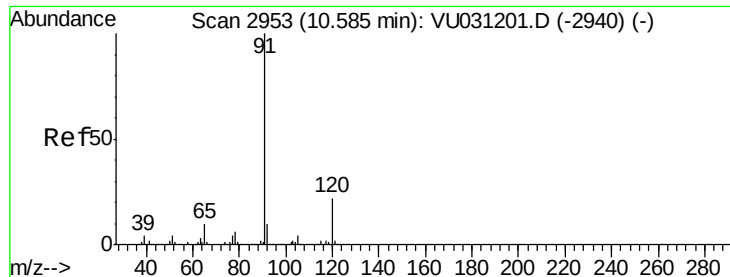
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#72
 Bromobenzene
 Concen: 0.470 ug/l
 RT: 10.45 min Scan# 2912
 Delta R.T. 0.00 min
 Lab File: VU031197.D
 Acq: 15 Apr 2019 19:14

Tgt Ion	Ratio	Lower	Upper
156	100		
77	155.4	0.0	322.6
158	104.1	0.0	191.0





#73

n-propylbenzene

Concen: 0.379 ug/l

RT: 10.59 min Scan# 2954

Delta R.T. 0.00 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tot Ion:120 Resp: 3468

Ion Ratio Lower Upper

120 100

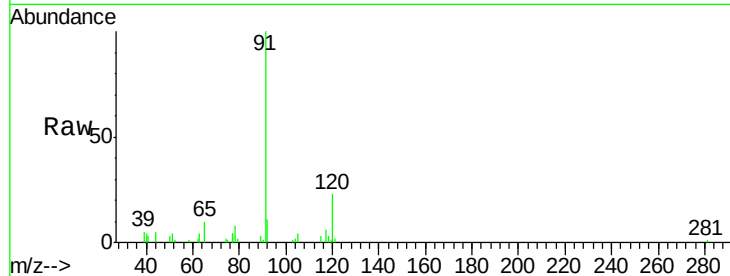
91 492.0 364.9 547.3

Manual Integrations

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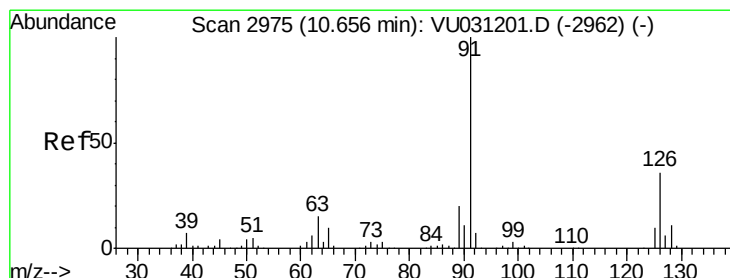
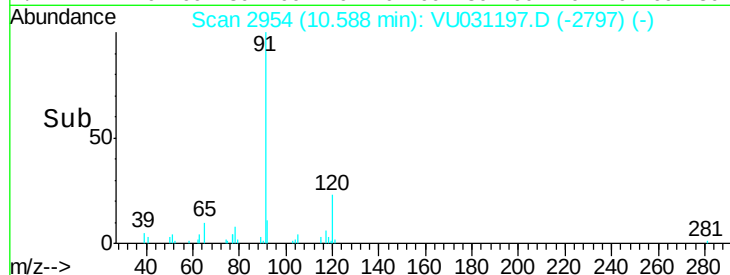
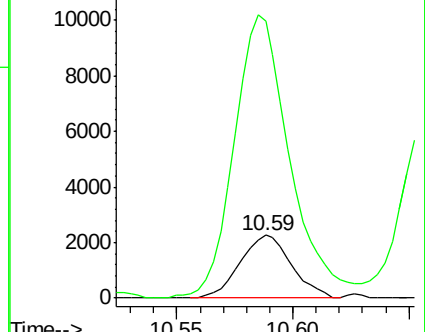
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Abundance Ion 120.00 (119.70 to 120.70): V

Ion 91.00 (90.70 to 91.70): VU0



#74

2-Chlorotoluene

Concen: 0.389 ug/l

RT: 10.66 min Scan# 2976

Delta R.T. 0.00 min

Lab File: VU031197.D

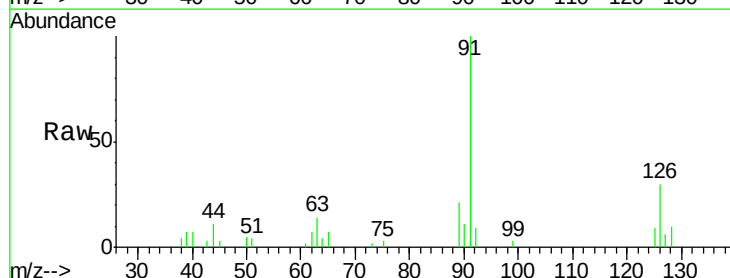
Acq: 15 Apr 2019 19:14

Tgt Ion:126 Resp: 3246

Ion Ratio Lower Upper

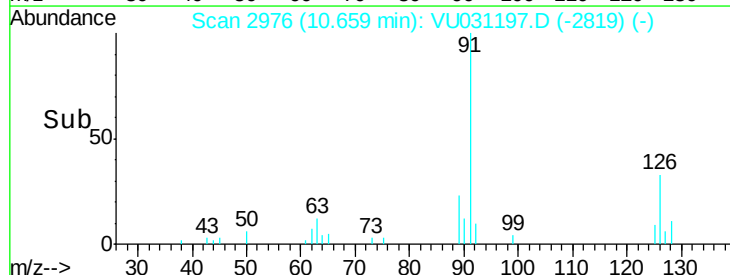
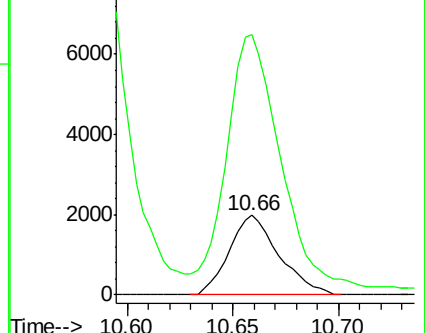
126 100

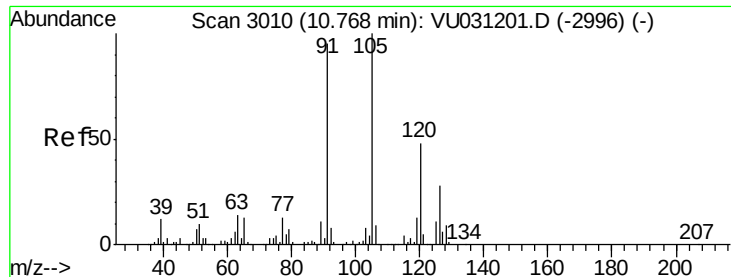
91 353.8 0.0 612.6



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: 0.377 ug/l

RT: 10.77 min Scan# 3011

Delta R.T. 0.00 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tot Ion:105 Resp: 10957

Ion Ratio Lower Upper

105 100

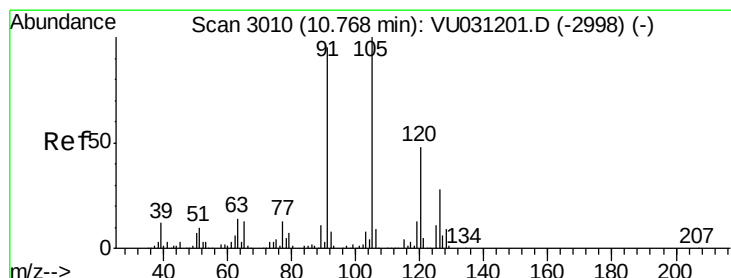
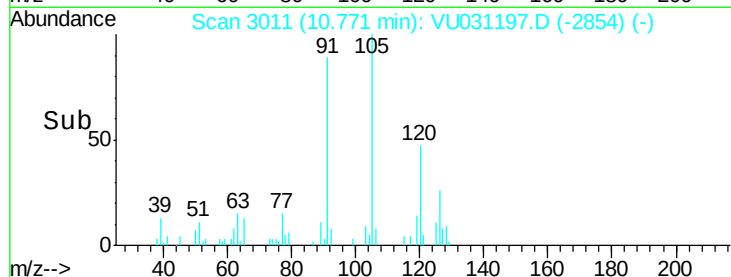
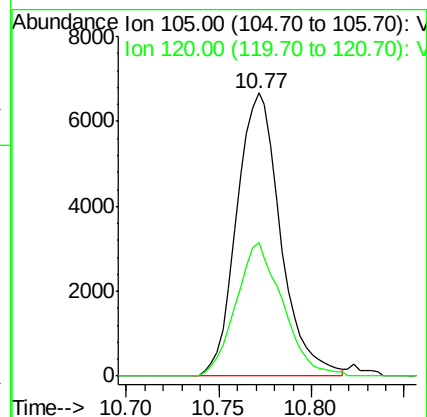
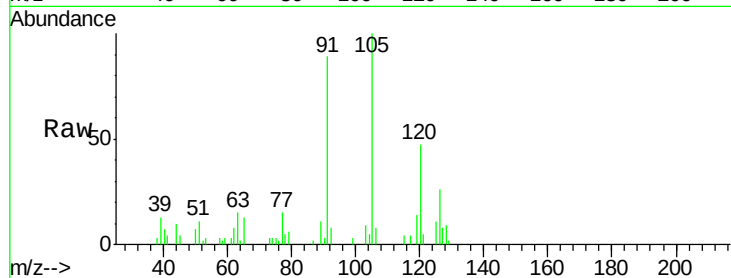
120 50.3 38.7 58.1

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#76

4-Chlorotoluene

Concen: 0.387 ug/l

RT: 10.77 min Scan# 3011

Delta R.T. 0.00 min

Lab File: VU031197.D

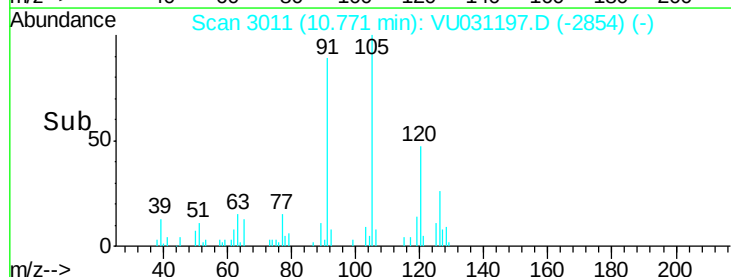
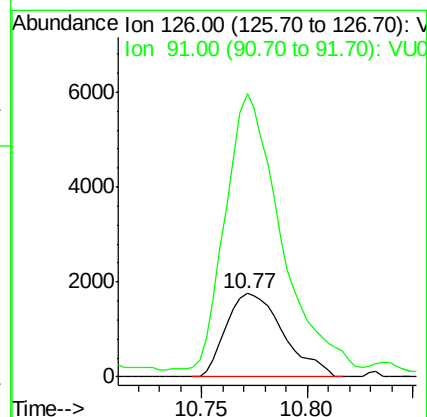
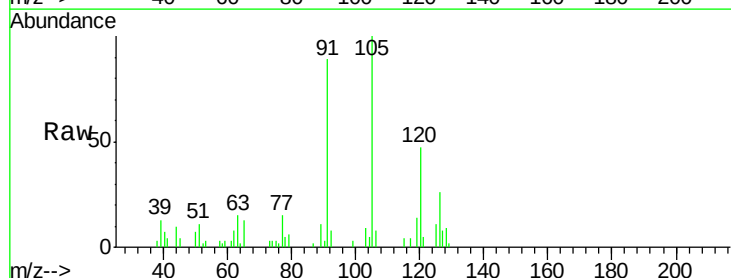
Acq: 15 Apr 2019 19:14

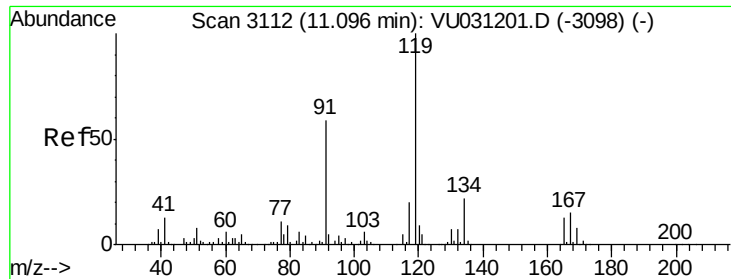
Tgt Ion:126 Resp: 3303

Ion Ratio Lower Upper

126 100

91 318.1 0.0 683.8





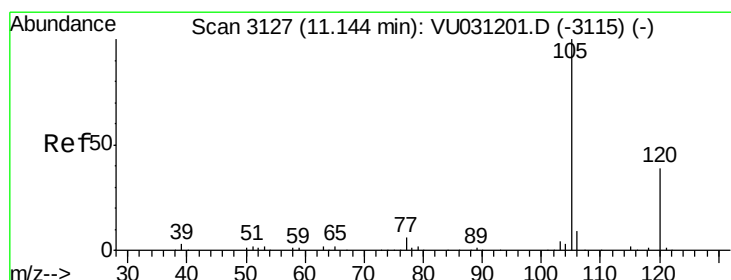
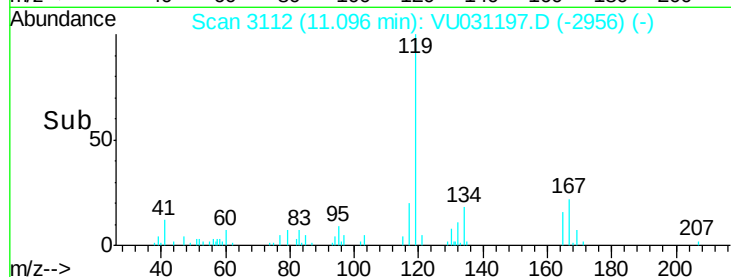
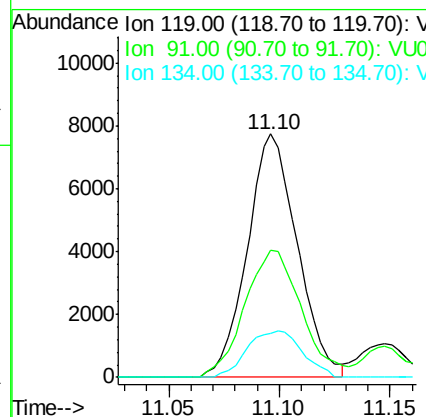
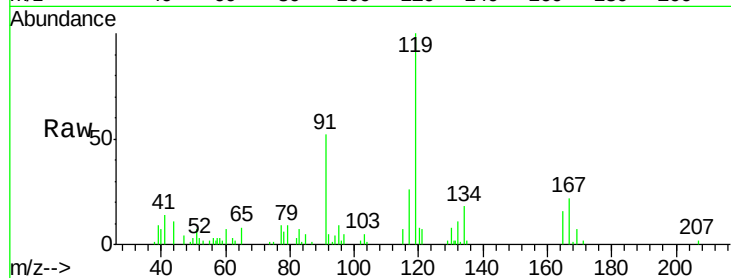
#77
 tert-Butylbenzene
 Concen: 0.430 ug/l
 RT: 11.10 min Scan# 3112
 Delta R.T. 0.00 min
 Lab File: VU031197.D
 Acq: 15 Apr 2019 19:14

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
119	100		
91	59.3	29.4	88.3
134	20.9	17.9	26.9

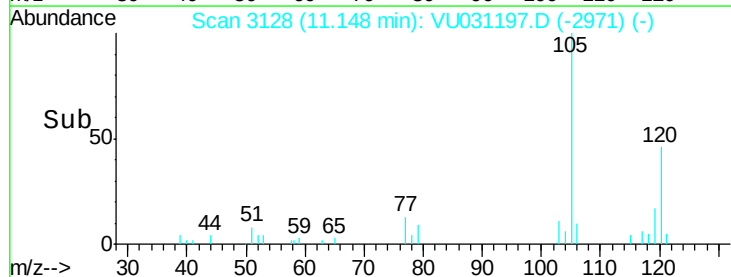
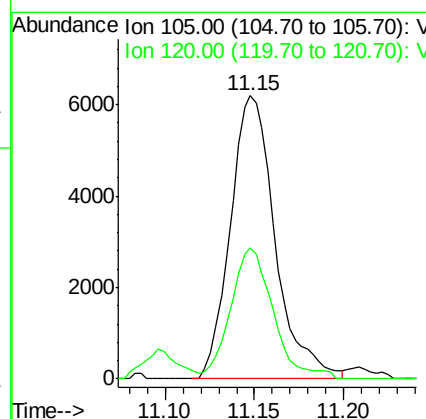
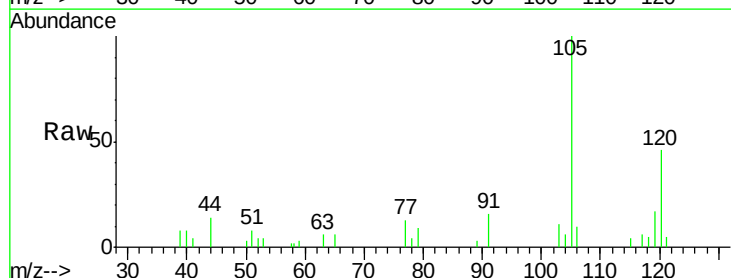
Manual Integrations
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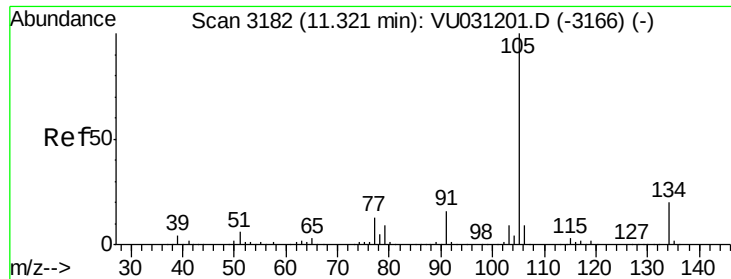
MMDadoda
 4/16/2019 3:23:06 PM



#78
 1,2,4-Trimethylbenzene
 Concen: 0.366 ug/l
 RT: 11.15 min Scan# 3128
 Delta R.T. 0.00 min
 Lab File: VU031197.D
 Acq: 15 Apr 2019 19:14

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.0	22.4	67.0





#79

sec-Butylbenzene

Concen: 0.396 ug/l

RT: 11.32 min Scan# 3182

Delta R.T. 0.00 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

Instrument :

MSVOA_U

ClientSampled :

VSTDIC0.5

Tot Ion: 105 Resp: 15261

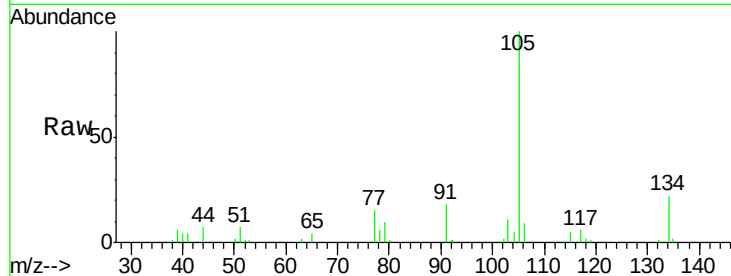
Ion Ratio Lower Upper

105 100

134 19.9 15.5 23.3

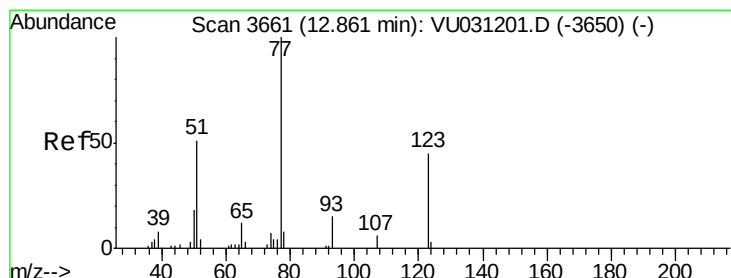
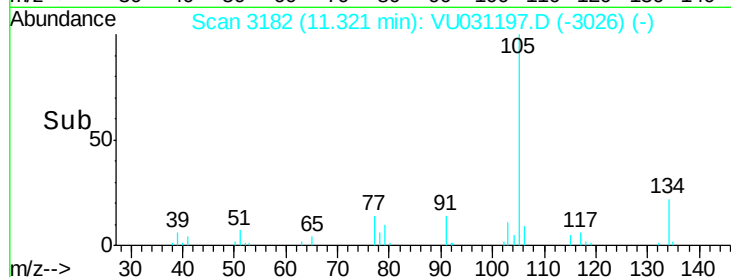
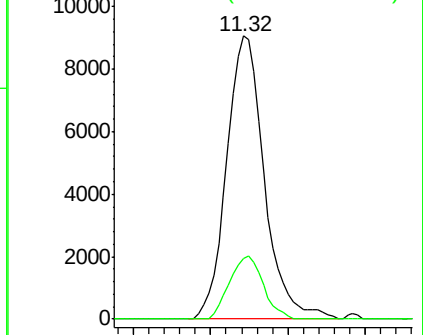
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#80

Nitrobenzene

Concen: 0.340 ug/l

RT: 12.89 min Scan# 3670

Delta R.T. 0.03 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

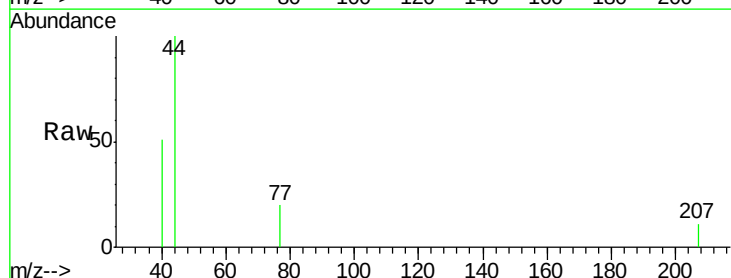
Tgt Ion: 77 Resp: 93

Ion Ratio Lower Upper

77 100

123 0.0 17.1 60.7#

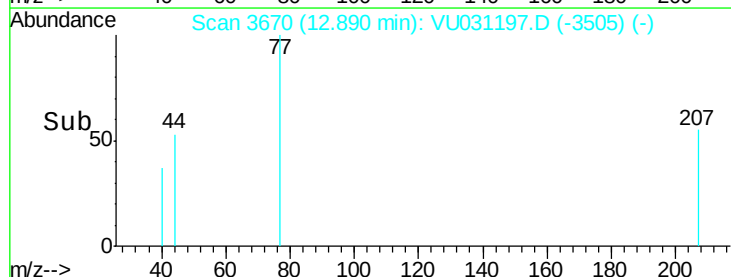
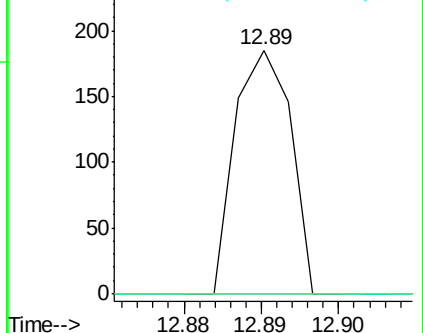
65 0.0 9.4 12.0#

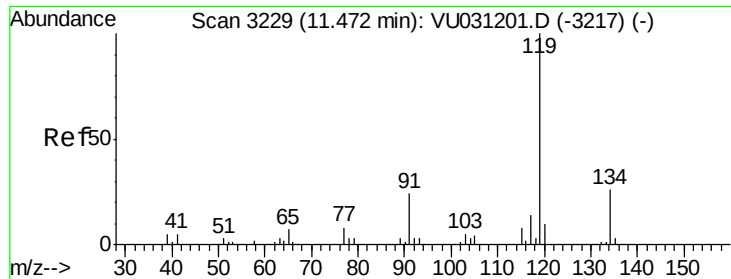


Abundance Ion 77.00 (76.70 to 77.70): VU0

Ion 123.00 (122.70 to 123.70): V

Ion 65.00 (64.70 to 65.70): VU0





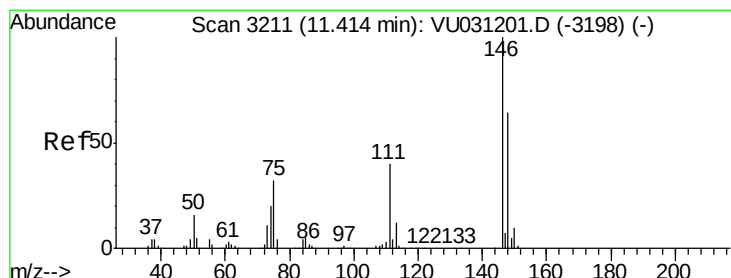
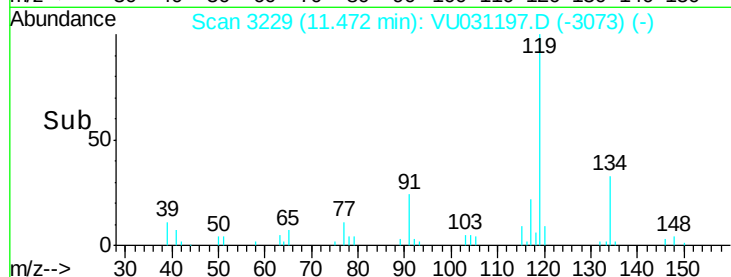
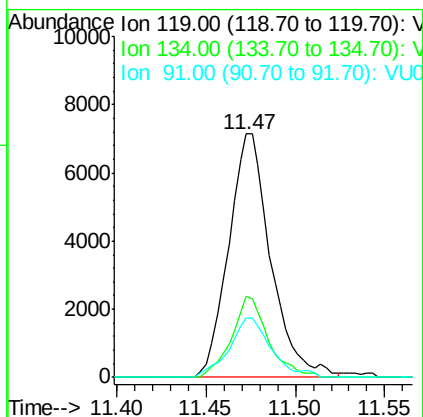
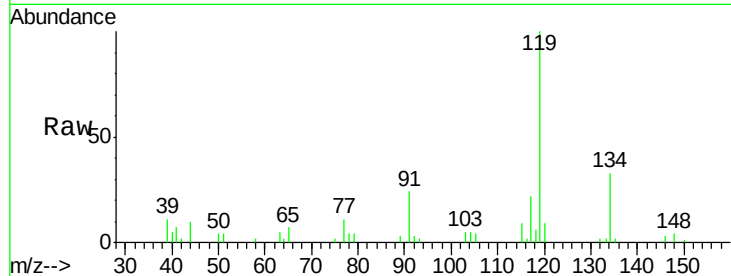
#81
p-Isopropyltoluene
Concen: 0.387 ug/l
RT: 11.47 min Scan# 3229
Delta R.T. 0.00 min
Lab File: VU031197.D
Acq: 15 Apr 2019 19:14

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
119	100	11690		
134	29.0	21.0	31.4	
91	23.3	19.4	29.2	

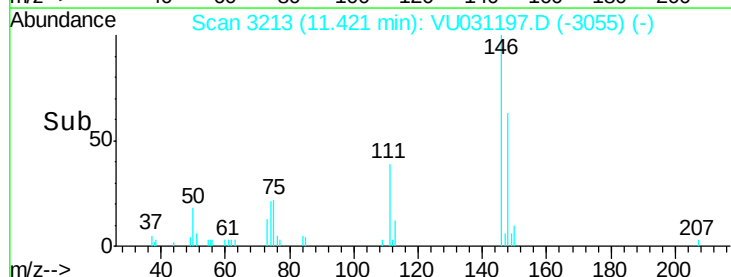
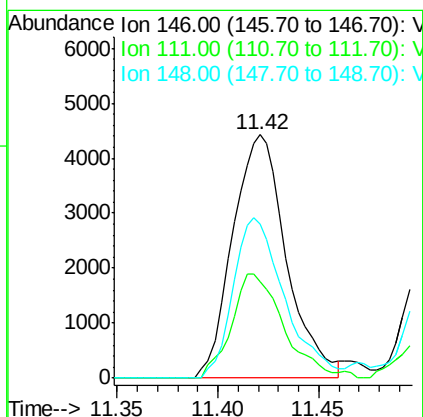
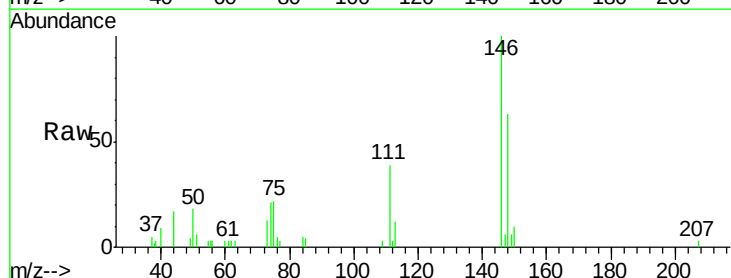
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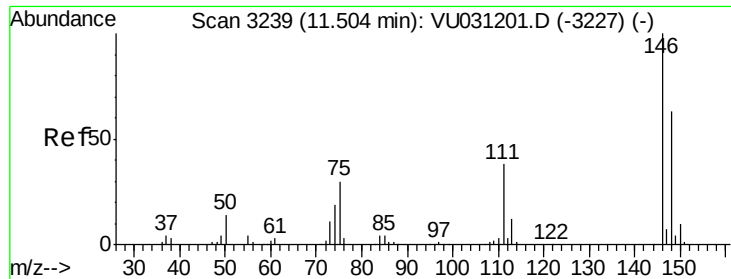
MMDadoda
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#82
1,3-Dichlorobenzene
Concen: 0.480 ug/l
RT: 11.42 min Scan# 3213
Delta R.T. 0.01 min
Lab File: VU031197.D
Acq: 15 Apr 2019 19:14

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	8238		
111	41.7	32.4	48.6	
148	62.9	50.8	76.2	





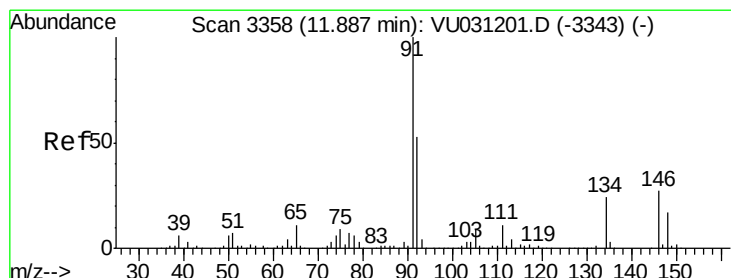
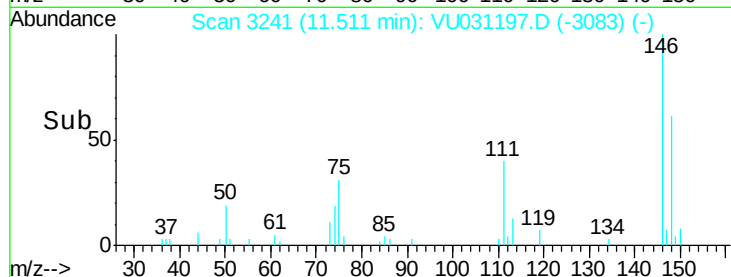
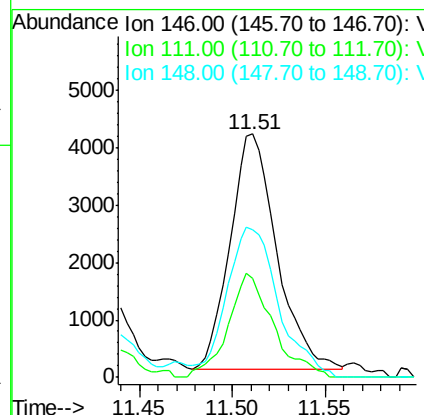
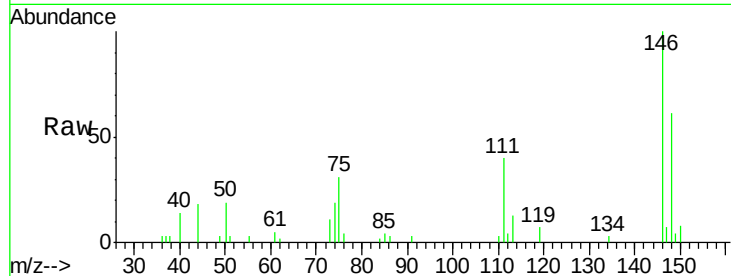
#83
 1,4-Dichlorobenzene
 Concen: 0.420 ug/l
 RT: 11.51 min Scan# 3241
 Delta R.T. 0.01 min
 Lab File: VU031197.D
 Acq: 15 Apr 2019 19:14

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.0	30.6	46.0
148	71.4	51.1	76.7

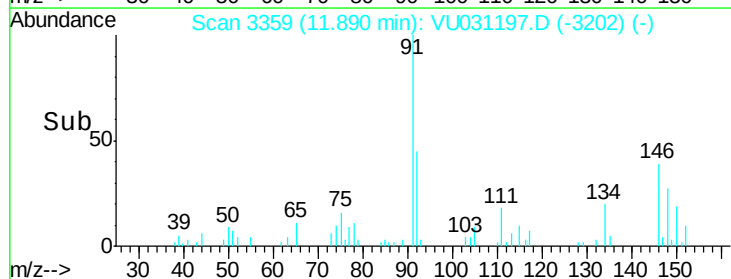
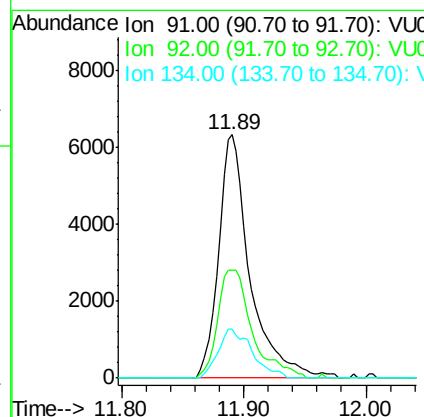
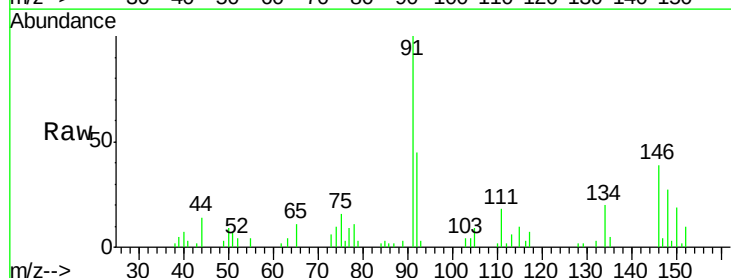
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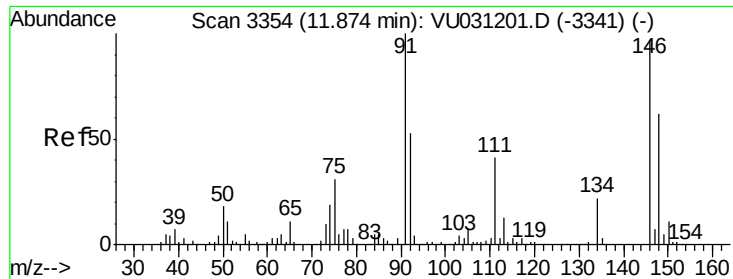
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#84
 n-Butylbenzene
 Concen: 0.376 ug/l
 RT: 11.89 min Scan# 3359
 Delta R.T. 0.00 min
 Lab File: VU031197.D
 Acq: 15 Apr 2019 19:14

Tgt Ion	Ratio	Lower	Upper
91	100		
92	49.2	42.6	63.8
134	21.9	19.1	28.7





#85

1,2-Dichlorobenzene

Concen: 0.456 ug/l

RT: 11.88 min Scan# 3355

Delta R.T. 0.00 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

Instrument :

MSVOA_U

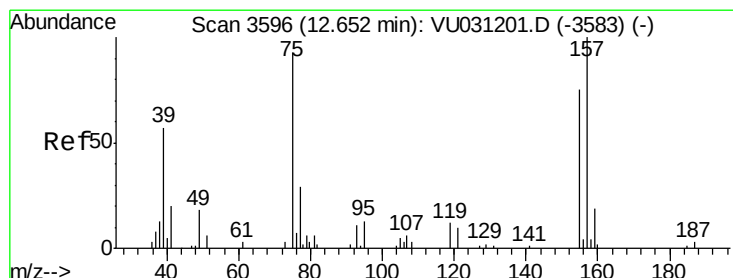
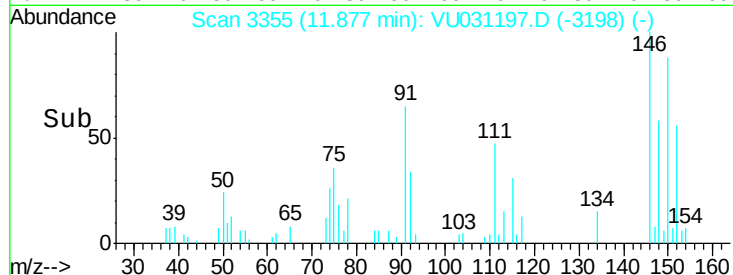
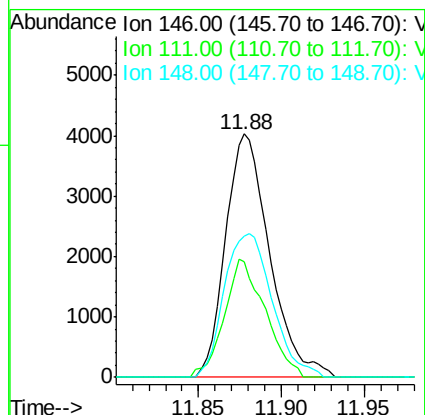
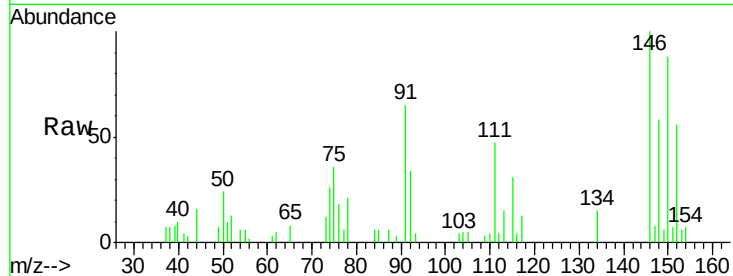
ClientSampled :

VSTDIC0.5

Tot Ion:	146	Resp:	7444
Ion Ratio	Lower	Upper	
146	100		
111	45.1	20.8	62.5
148	64.1	31.4	94.3

Manual Integrations
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#86

1,2-Dibromo-3-Chloropropane

Concen: 0.314 ug/l

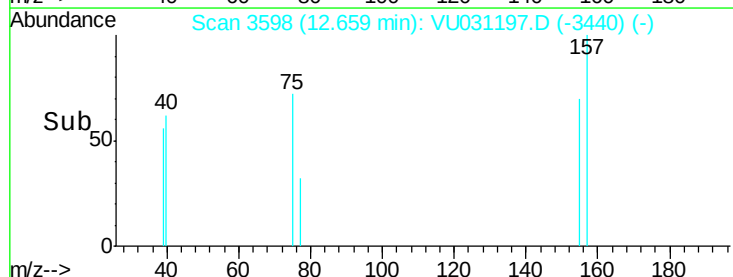
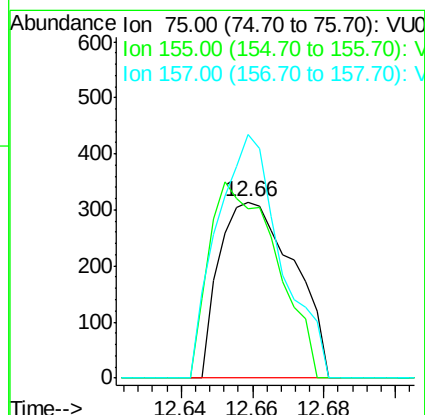
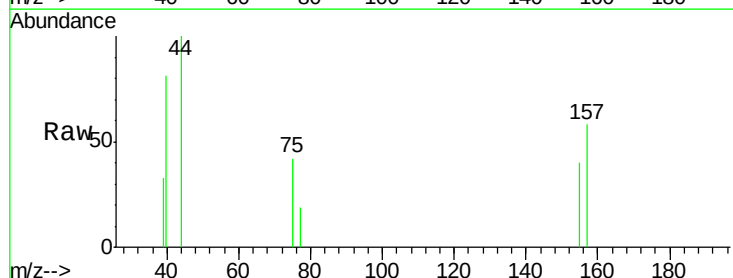
RT: 12.66 min Scan# 3598

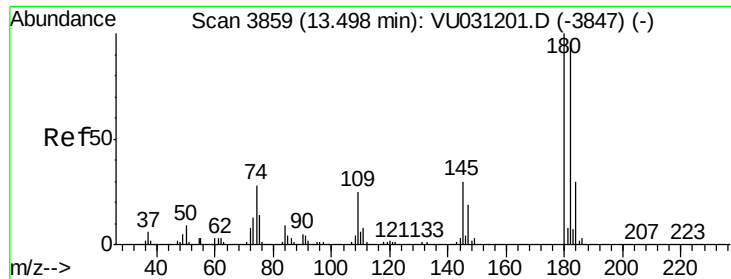
Delta R.T. 0.01 min

Lab File: VU031197.D

Acq: 15 Apr 2019 19:14

Tgt Ion:	75	Resp:	451
Ion Ratio	Lower	Upper	
75	100		
155	100.9	61.7	92.5#
157	119.5	81.3	121.9





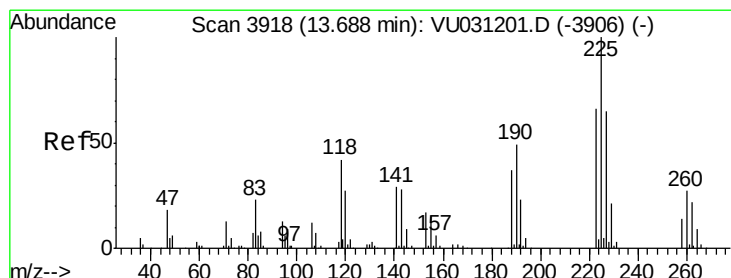
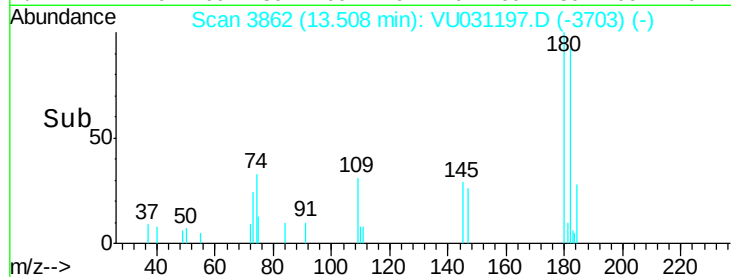
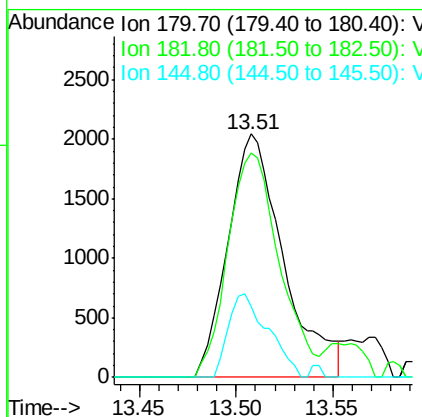
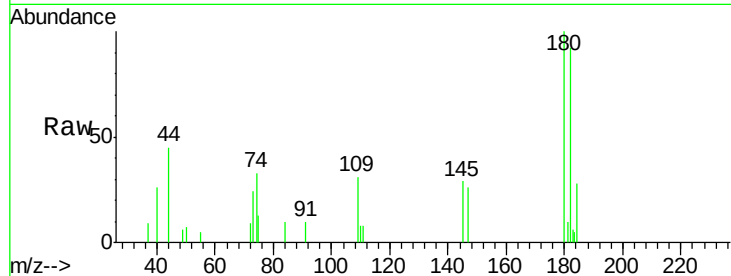
#87
 1,2,4-Trichlorobenzene
 Concen: 0.418 ug/l
 RT: 13.51 min Scan# 3862
 Delta R.T. 0.01 min
 Lab File: VU031197.D
 Acq: 15 Apr 2019 19:14

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
180	100		
182	85.6	75.0	112.6
145	24.4	23.4	35.2

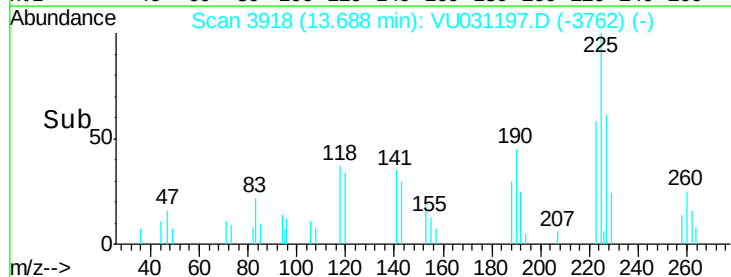
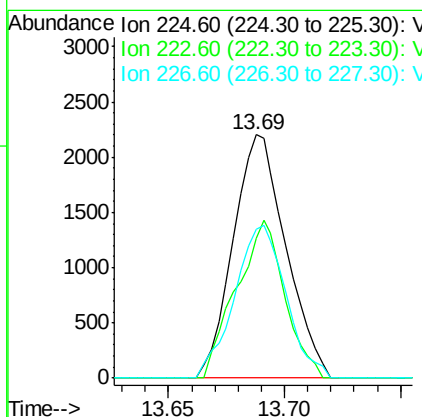
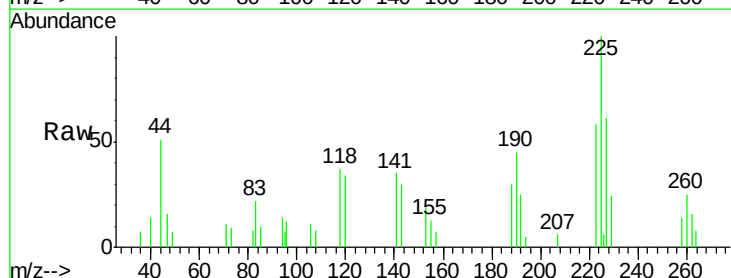
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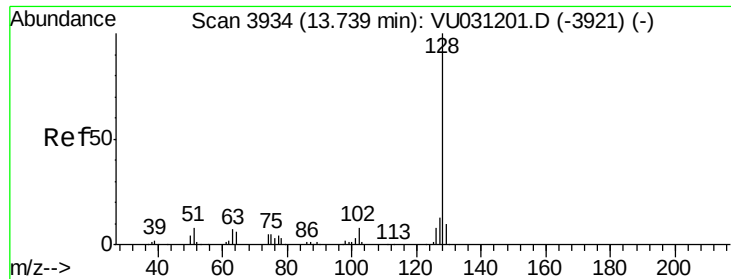
MMDadoda
 4/16/2019 3:23:06 PM



#88
 Hexachlorobutadiene
 Concen: 0.594 ug/l
 RT: 13.69 min Scan# 3918
 Delta R.T. 0.00 min
 Lab File: VU031197.D
 Acq: 15 Apr 2019 19:14

Tgt Ion	Ratio	Lower	Upper
225	100		
223	59.7	51.4	77.2
227	61.1	51.2	76.8





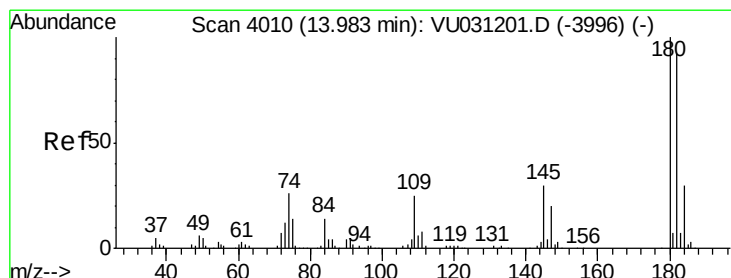
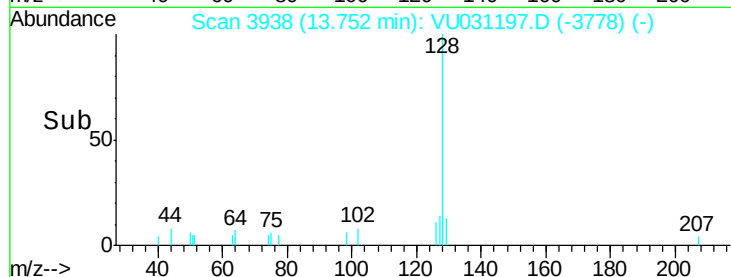
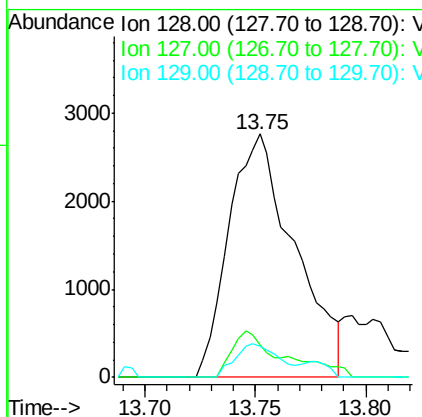
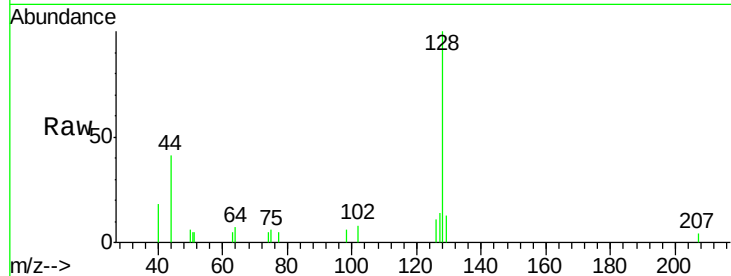
#89
Naphthalene
Concen: 0.333 ug/l
RT: 13.75 min Scan# 3938
Delta R.T. 0.01 min
Lab File: VU031197.D
Acq: 15 Apr 2019 19:14

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.2	11.0	16.4
129	9.2	8.3	12.5

Manual Integrations
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#90
1,2,3-Trichlorobenzene
Concen: 0.460 ug/l
RT: 13.99 min Scan# 4011
Delta R.T. 0.00 min
Lab File: VU031197.D
Acq: 15 Apr 2019 19:14

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.4	76.4	114.6
145	32.1	25.3	37.9

