

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU110918\
 Data File : VU028038.D
 Acq On : 09 Nov 2018 12:41
 Operator : MD/SY
 Sample : VU1109WBS01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1109WBS01

Manual Integrations
 APPROVED

MMDadoda
 11/12/2018 12:01:51 PM

Quant Time: Nov 12 06:40:43 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 02 02:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	181534	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	319738	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	291097	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	138760	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	142196	52.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.38%	
35) Dibromofluoromethane	4.89	113	102258	50.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.44%	
50) Toluene-d8	7.57	98	401131	51.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.02%	
62) 4-Bromofluorobenzene	10.31	95	145775	50.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.50%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	35418	15.354	ug/l	100
3) Chloromethane	1.33	50	51965	18.627	ug/l	100
4) Vinyl Chloride	1.40	62	51587	18.631	ug/l	99
5) Bromomethane	1.63	94	25988	25.172	ug/l	93
6) Chloroethane	1.70	64	31595	19.801	ug/l	98
7) Trichlorofluoromethane	1.89	101	60974	19.057	ug/l	96
8) Diethyl Ether	2.11	74	28125	20.529	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	2.29	101	37959	19.971	ug/l	98
10) Methyl Iodide	2.41	142	32114	23.302	ug/l	97
11) Tert butyl alcohol	2.83	59	62613	87.631	ug/l	100
12) 1,1-Dichloroethene	2.29	96	35447	18.631	ug/l	94
13) Acrolein	2.20	56	20639	73.738	ug/l	94
14) Allyl chloride	2.59	41	82309	17.701	ug/l	98
15) Acrylonitrile	2.94	53	171018	97.440	ug/l	100
16) Acetone	2.32	43	167255	99.882	ug/l	99
17) Carbon Disulfide	2.48	76	111178	17.878	ug/l	99
18) Methyl Acetate	2.62	43	88678	19.251	ug/l	96
19) Methyl tert-butyl Ether	3.00	73	148960	19.415	ug/l	100
20) Methylene Chloride	2.71	84	47858	19.574	ug/l	97
21) trans-1,2-Dichloroethene	2.99	96	39896	18.170	ug/l	91
22) Diisopropyl ether	3.58	45	187984	19.582	ug/l	95
23) Vinyl Acetate	3.53	43	795279	96.391	ug/l	100
24) 1,1-Dichloroethane	3.45	63	90894	19.009	ug/l	100
25) 2-Butanone	4.26	43	254003	95.345	ug/l	100
26) 2,2-Dichloropropane	4.23	77	68985	19.224	ug/l	100
27) cis-1,2-Dichloroethene	4.23	96	48040	19.511	ug/l	96
28) Bromochloromethane	4.55	49	44599	19.895	ug/l	99
29) Tetrahydrofuran	4.64	42	162222	91.193	ug/l	98
30) Chloroform	4.68	83	81607	18.613	ug/l	97
31) Cyclohexane	5.00	56	91091	18.342	ug/l	97
32) 1,1,1-Trichloroethane	4.92	97	67997	19.483	ug/l	99
36) 1,1-Dichloropropene	5.14	75	62169	18.565	ug/l	99
37) Ethyl Acetate	4.38	43	92766	18.906	ug/l	99
38) Carbon Tetrachloride	5.14	117	53888	18.158	ug/l	96

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Manual Integrations
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Quant Time: Nov 12 06:40:43 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 02 02:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.42	83	77234	19.122	ug/l	98
40) Benzene	5.39	78	192571	18.809	ug/l	97
41) Methacrylonitrile	4.55	41	50133	19.146	ug/l	95
42) 1,2-Dichloroethane	5.41	62	68816	18.909	ug/l	100
43) Isopropyl Acetate	5.55	43	145102	18.876	ug/l	100
44) Trichloroethene	6.19	130	41696	18.946	ug/l	94
45) 1,2-Dichloropropane	6.43	63	56001	18.966	ug/l	99
46) Dibromomethane	6.56	93	32339	19.054	ug/l	97
47) Bromodichloromethane	6.76	83	61406	18.774	ug/l	98
48) Methyl methacrylate	6.62	41	72615	19.276	ug/l	100
49) 1,4-Dioxane	6.61	88	22608	367.849	ug/l	98
51) 4-Methyl-2-Pentanone	7.46	43	472426	92.023	ug/l	100
52) Toluene	7.64	92	113026	18.778	ug/l	100
53) t-1,3-Dichloropropene	7.88	75	70399	18.087	ug/l	98
54) cis-1,3-Dichloropropene	7.27	75	78634	19.502	ug/l	98
55) 1,1,2-Trichloroethane	8.07	97	45810	18.707	ug/l	97
56) Ethyl methacrylate	8.02	69	81859	18.956	ug/l	99
57) 1,3-Dichloropropane	8.24	76	84657	18.978	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.13	63	239952	103.747	ug/l	99
59) 2-Hexanone	8.36	43	370338	93.269	ug/l	100
60) Dibromochloromethane	8.48	129	43497	18.771	ug/l	99
61) 1,2-Dibromoethane	8.59	107	48916	18.799	ug/l	99
64) Tetrachloroethene	8.23	164	34516	18.286	ug/l	95
65) Chlorobenzene	9.12	112	115421	18.767	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.21	131	40070	19.075	ug/l	99
67) Ethyl Benzene	9.25	91	217622	19.224	ug/l	100
68) m/p-Xylenes	9.38	106	158872	38.679	ug/l	99
69) o-Xylene	9.78	106	77701	18.734	ug/l	98
70) Styrene	9.79	104	125330	18.911	ug/l	99
71) Bromoform	9.96	173	31647	17.976	ug/l #	99
73) Isopropylbenzene	10.17	105	210694	19.600	ug/l	100
74) N-amyl acetate	10.01	43	125434	19.297	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.46	83	82249	18.969	ug/l	99
76) 1,2,3-Trichloropropane	10.49	75	70405m	18.550	ug/l	
77) Bromobenzene	10.45	156	48599	19.716	ug/l	99
78) n-propylbenzene	10.59	91	253100	19.670	ug/l	99
79) 2-Chlorotoluene	10.66	91	150079	19.459	ug/l	99
80) 1,3,5-Trimethylbenzene	10.77	105	174795	19.629	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.51	75	26327m	17.491	ug/l	
82) 4-Chlorotoluene	10.77	91	168724	19.270	ug/l	98
83) tert-Butylbenzene	11.10	119	168837	18.966	ug/l	99
84) 1,2,4-Trimethylbenzene	11.15	105	174817	19.496	ug/l	99
85) sec-Butylbenzene	11.32	105	211971	19.579	ug/l	100
86) p-Isopropyltoluene	11.48	119	173595	19.180	ug/l	99
87) 1,3-Dichlorobenzene	11.42	146	84580	18.575	ug/l	97
88) 1,4-Dichlorobenzene	11.51	146	87975	18.850	ug/l	99
89) n-Butylbenzene	11.89	91	166484	19.355	ug/l	99
90) Hexachloroethane	12.14	117	29357	18.219	ug/l	97
91) 1,2-Dichlorobenzene	11.88	146	87953	19.208	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.66	75	17097	18.712	ug/l	98

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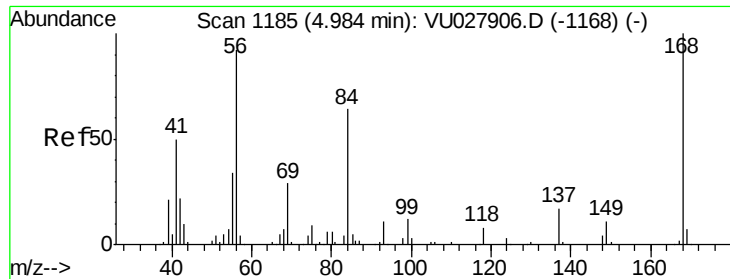
Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:01:51 PM

Quant Time: Nov 12 06:40:43 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 02 02:28:20 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	55615	17.766	ug/l	99
94) Hexachlorobutadiene	13.69	225	27661	19.007	ug/l	99
95) Naphthalene	13.74	128	205468	17.936	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	59260	19.286	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU028038.D

Acq: 09 Nov 2018 12:41

Instrument :

MSVOA_U

ClientSampleId :

VU1109WBS01

Tot Ion:168 Resp: 181534

Ion Ratio Lower Upper

168 100

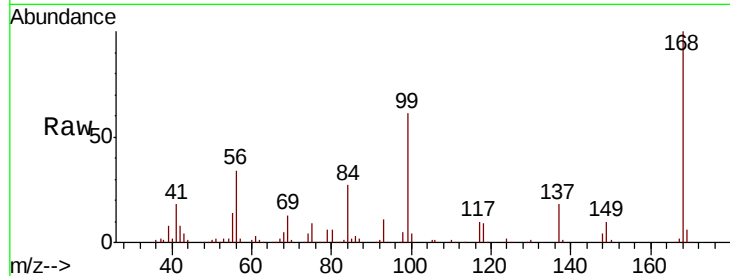
99 60.9 47.9 71.9

Manual Integrations

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11/12/2018 12:01:51 PM



Abundance Ion 167.90 (167.60 to 168.60): VU027906.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU027906.D (-1168) (-)

4.99

80000

60000

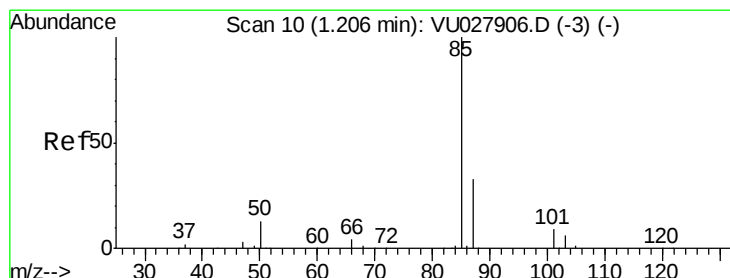
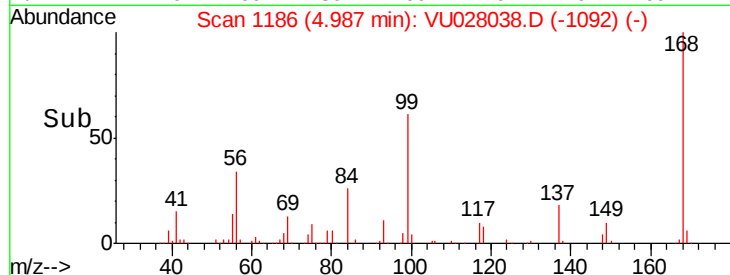
40000

20000

0

4.90 4.95 5.00 5.05 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 15.354 ug/l

RT: 1.21 min Scan# 11

Delta R.T. 0.00 min

Lab File: VU028038.D

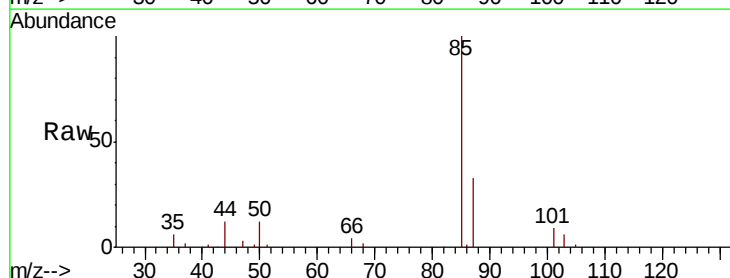
Acq: 09 Nov 2018 12:41

Tgt Ion: 85 Resp: 35418

Ion Ratio Lower Upper

85 100

87 33.1 16.5 49.5



Abundance Ion 84.90 (84.60 to 85.60): VU027906.D (-3) (-)

Ion 86.90 (86.60 to 87.60): VU027906.D (-3) (-)

1.21

40000

30000

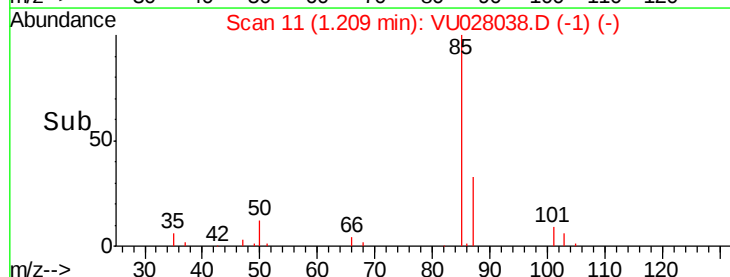
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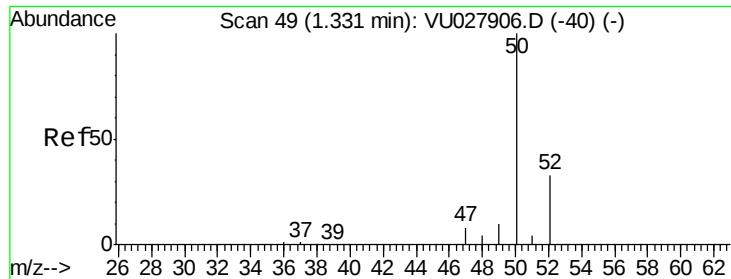
10000

0

1.20 1.25

Time-->





#3

Chloromethane

Concen: 18.627 ug/l

RT: 1.33 min Scan# 49

Delta R.T. -0.00 min

Lab File: VU028038.D

Acq: 09 Nov 2018 12:41

Instrument :

MSVOA_U

ClientSampleId :

VU1109WBS01

Tot Ion: 50 Resp: 51965

Ion Ratio Lower Upper

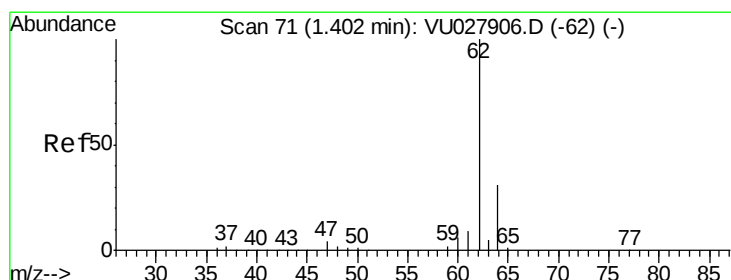
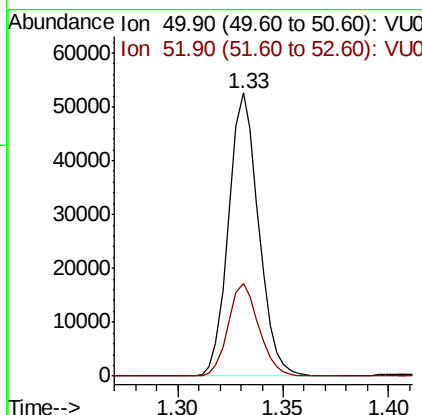
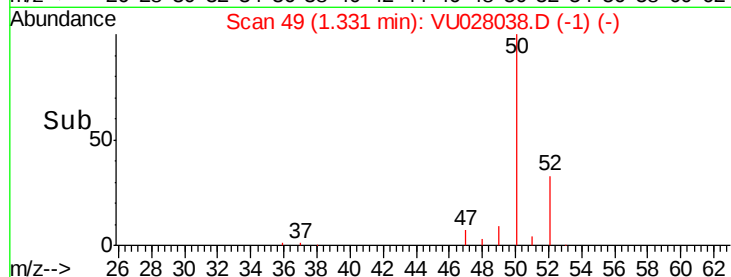
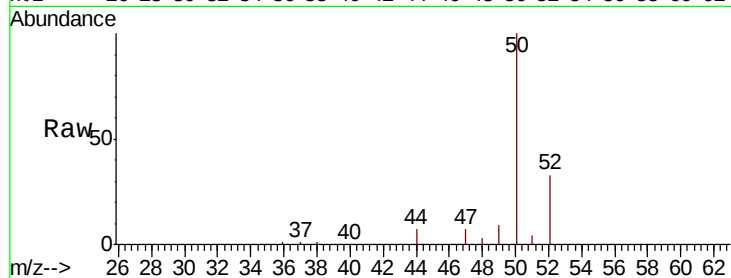
50 100

52 32.9 26.2 39.4

Manual Integrations
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11/12/2018 12:01:51 PM



#4

Vinyl Chloride

Concen: 18.631 ug/l

RT: 1.40 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU028038.D

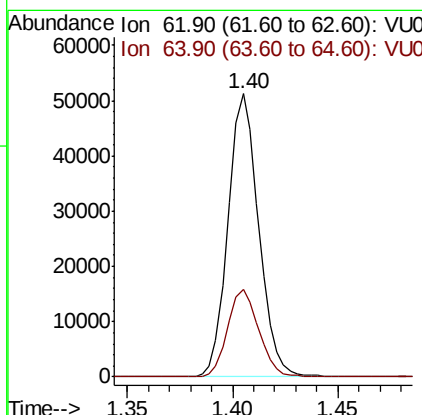
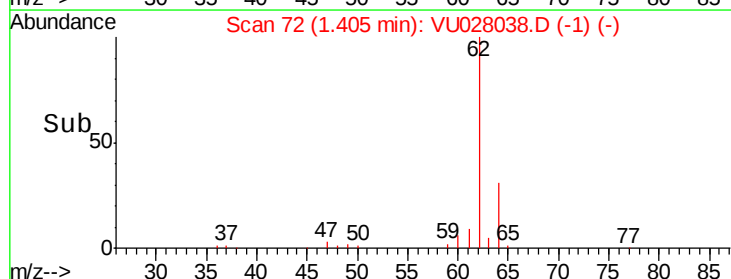
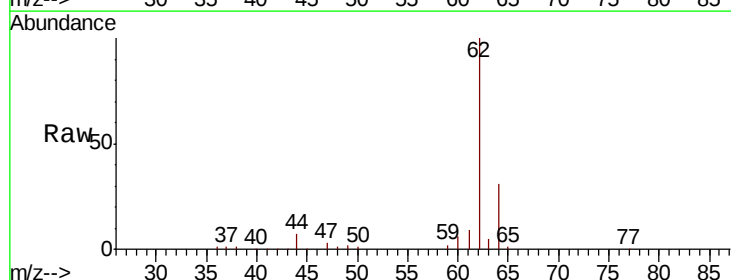
Acq: 09 Nov 2018 12:41

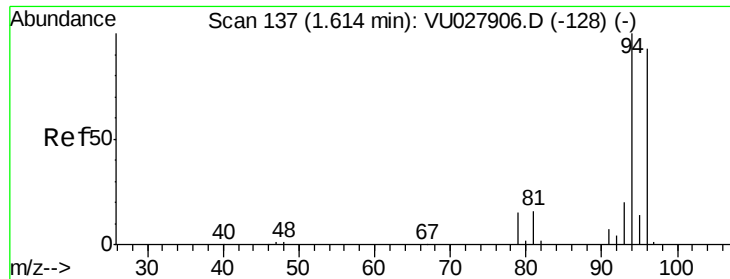
Tgt Ion: 62 Resp: 51587

Ion Ratio Lower Upper

62 100

64 30.7 25.2 37.8





#5

Bromomethane

Concen: 25.172 ug/l

RT: 1.63 min Scan# 141

Delta R.T. 0.01 min

Lab File: VU028038.D

Acq: 09 Nov 2018 12:41

Instrument :

MSVOA_U

ClientSampleId :

VU1109WBS01

Tot Ion: 94 Resp: 25988

Ion Ratio Lower Upper

94 100

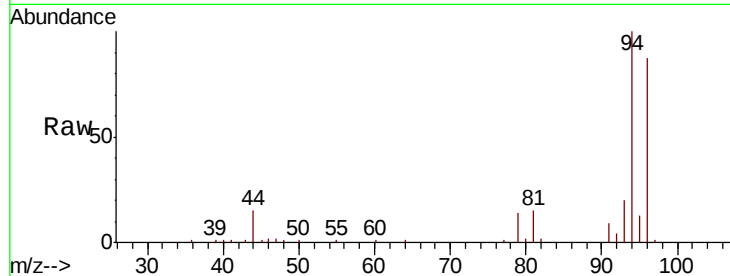
96 86.7 74.8 112.2

Manual Integrations

APPROVED

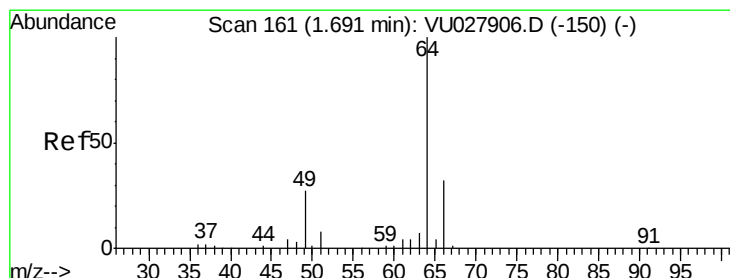
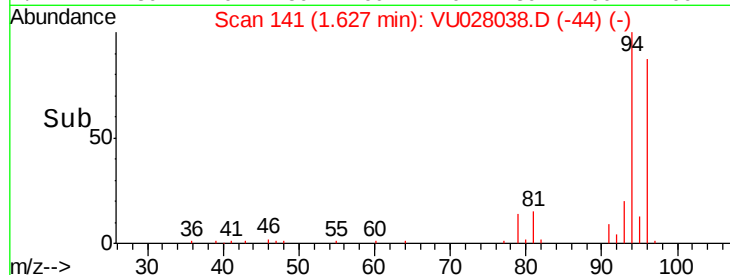
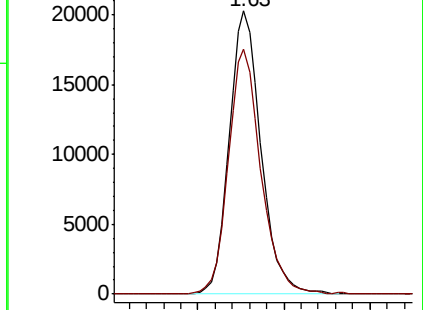
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Abundance Ion 93.90 (93.60 to 94.60): VU027906.D (-128) (-)

Ion 95.90 (95.60 to 96.60): VU028038.D (-44) (-)



#6

Chloroethane

Concen: 19.801 ug/l

RT: 1.70 min Scan# 164

Delta R.T. 0.01 min

Lab File: VU028038.D

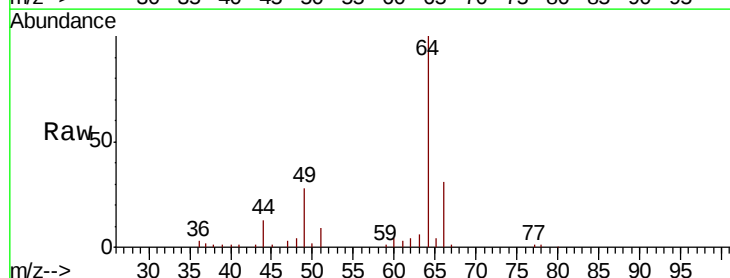
Acq: 09 Nov 2018 12:41

Tgt Ion: 64 Resp: 31595

Ion Ratio Lower Upper

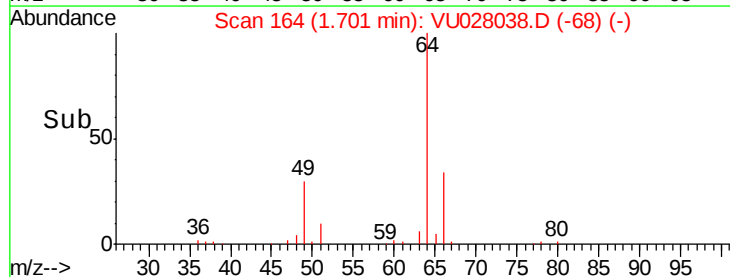
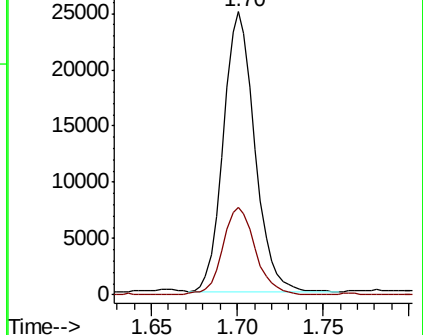
64 100

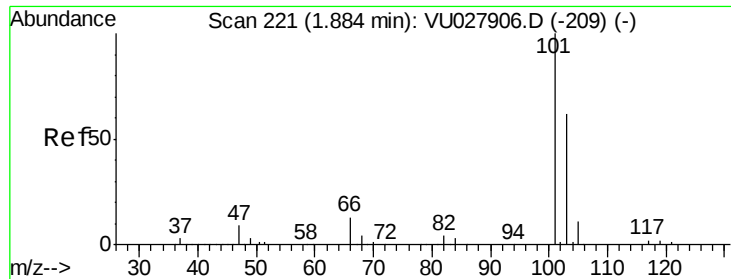
66 31.5 25.9 38.9



Abundance Ion 63.90 (63.60 to 64.60): VU027906.D (-150) (-)

Ion 65.90 (65.60 to 66.60): VU028038.D (-68) (-)





#7

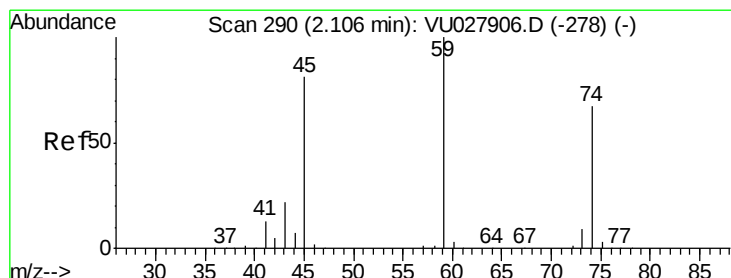
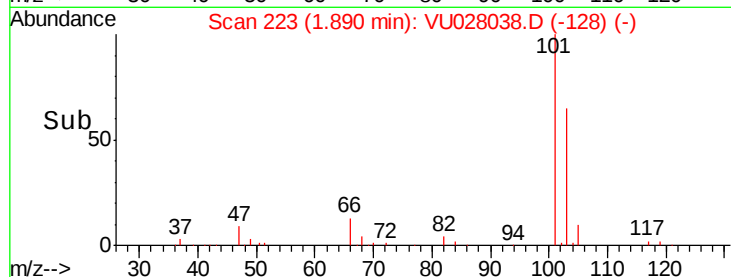
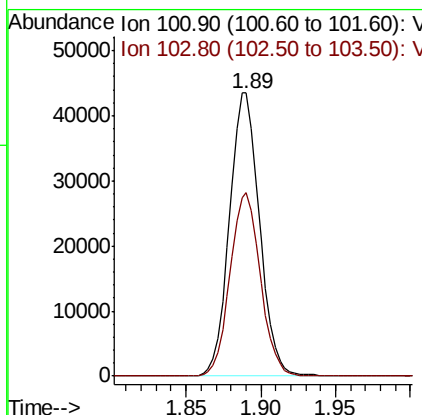
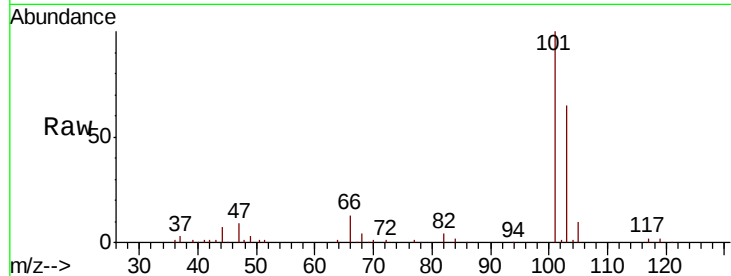
Trichlorofluoromethane
Concen: 19.057 ug/l
RT: 1.89 min Scan# 223
Delta R.T. 0.01 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBS01

Tot Ion:101 Resp: 60974
Ion Ratio Lower Upper
101 100
103 64.7 49.4 74.2

Manual Integrations
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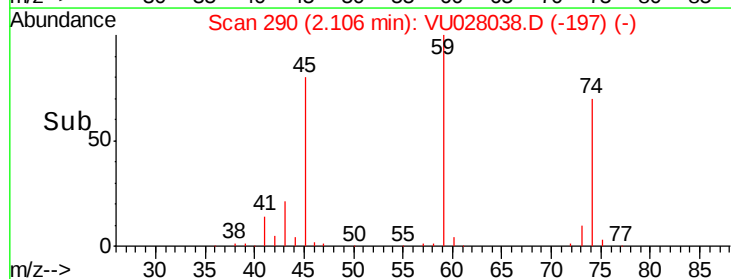
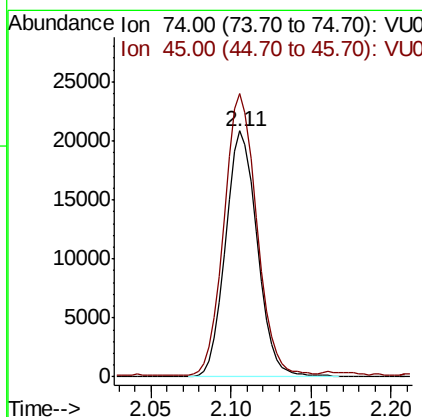
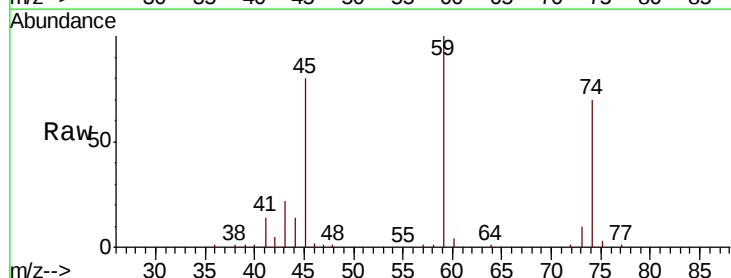
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11/12/2018 12:01:51 PM

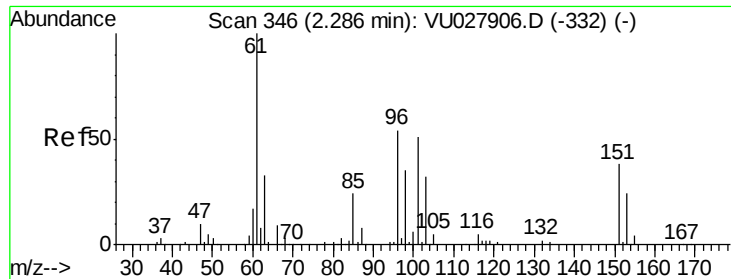


#8

Diethyl Ether
Concen: 20.529 ug/l
RT: 2.11 min Scan# 290
Delta R.T. -0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Tgt Ion: 74 Resp: 28125
Ion Ratio Lower Upper
74 100
45 117.6 60.5 181.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.971 ug/l

RT: 2.29 min Scan# 347

Delta R.T. 0.00 min

Lab File: VU028038.D

Acq: 09 Nov 2018 12:41

Instrument :

MSVOA_U

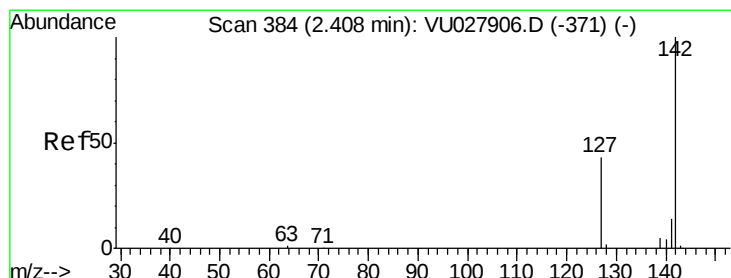
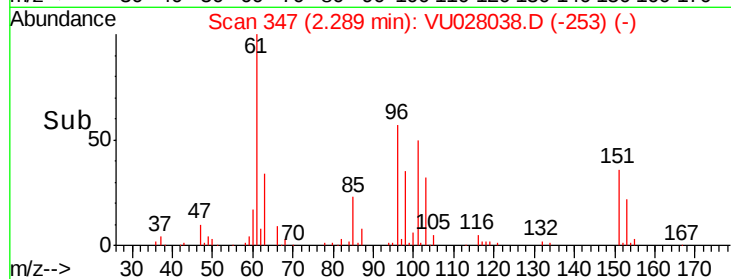
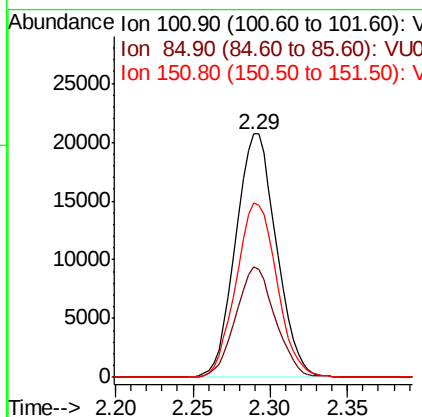
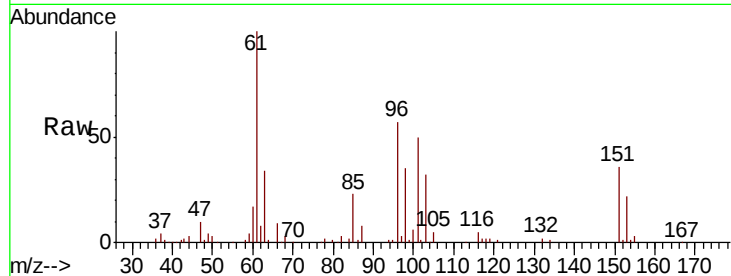
ClientSampleId :

VU1109WBS01

Tot Ion:	101	Resp:	37959
Ion Ratio	Lower	Upper	
101	100		
85	43.9	36.9	55.3
151	71.9	58.0	87.0

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#10

Methyl Iodide

Concen: 23.302 ug/l

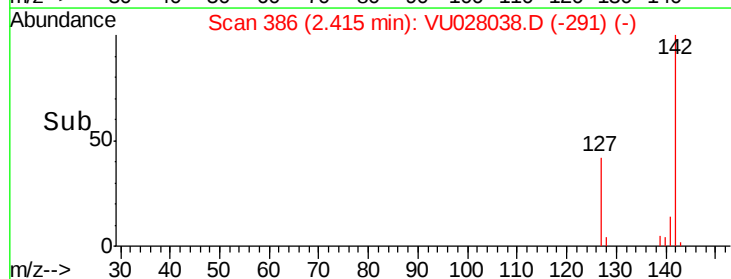
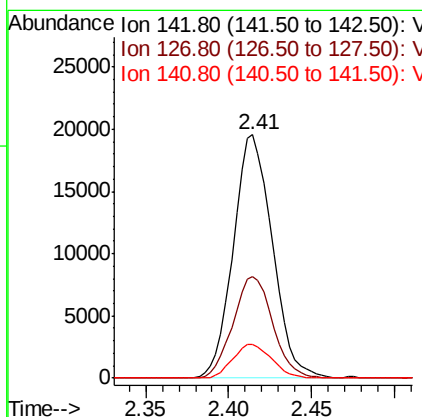
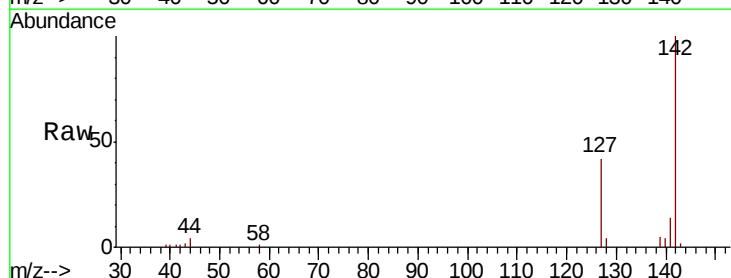
RT: 2.41 min Scan# 386

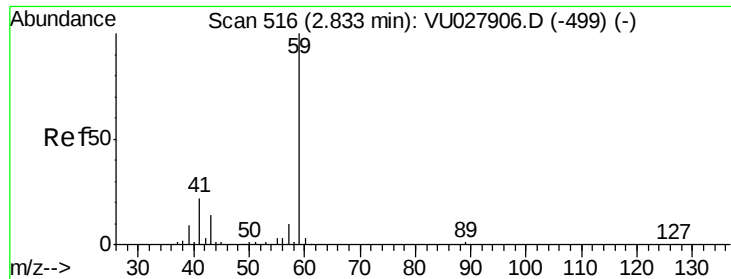
Delta R.T. 0.01 min

Lab File: VU028038.D

Acq: 09 Nov 2018 12:41

Tgt Ion:	142	Resp:	32114
Ion Ratio	Lower	Upper	
142	100		
127	42.1	35.2	52.8
141	13.6	11.8	17.8





#11

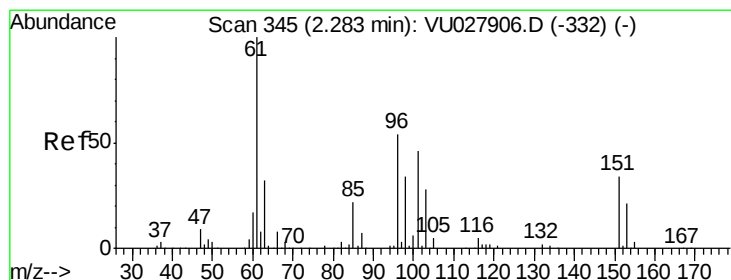
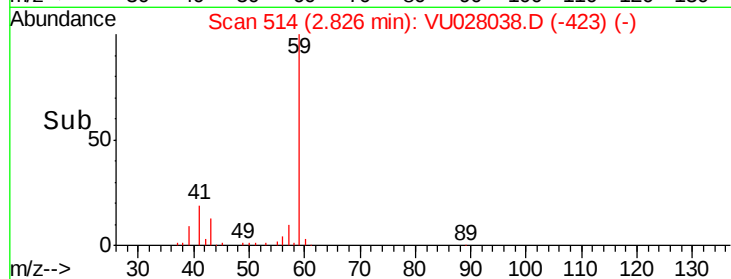
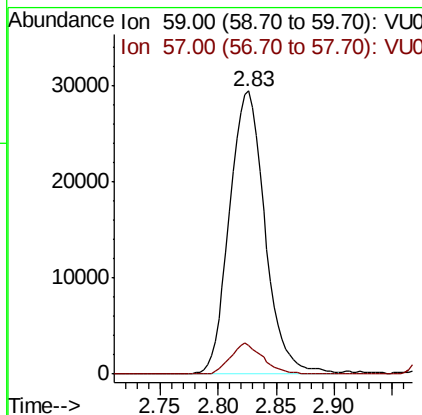
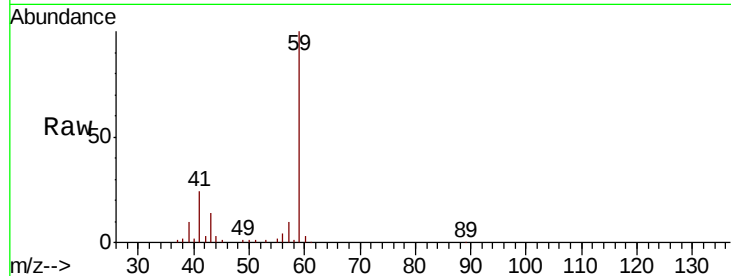
Tert butyl alcohol
Concen: 87.631 ug/l
RT: 2.83 min Scan# 514
Delta R.T. -0.01 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.9	7.8	11.8

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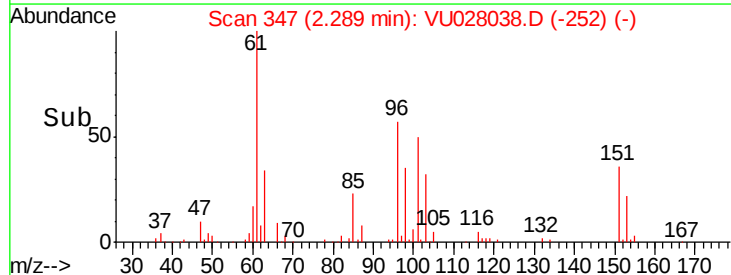
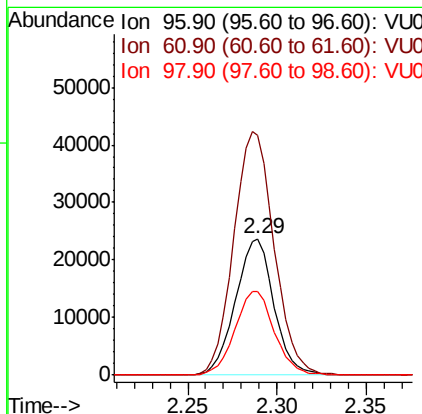
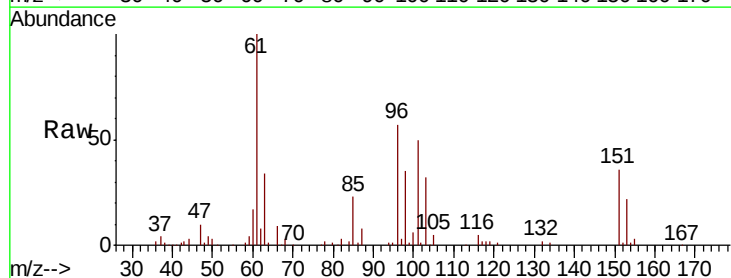
MMDadoda
11/12/2018 12:01:51 PM



#12

1,1-Dichloroethene
Concen: 18.631 ug/l
RT: 2.29 min Scan# 347
Delta R.T. 0.01 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Tgt Ion	Ratio	Lower	Upper
96	100		
61	175.9	149.3	223.9
98	61.8	50.6	75.8





#13

Acrolein

Concen: 73.738 ug/l

RT: 2.20 min Scan# 318

Delta R.T. 0.00 min

Lab File: VU028038.D

Acq: 09 Nov 2018 12:41

Instrument :

MSVOA_U

ClientSampleId :

VU1109WBS01

Tot Ion: 56 Resp: 20639

Ion Ratio Lower Upper

56 100

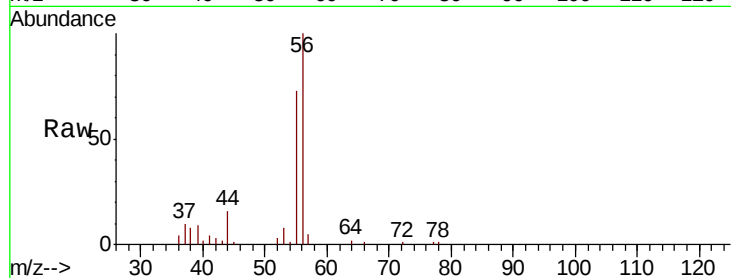
55 75.6 56.2 84.4

Manual Integrations

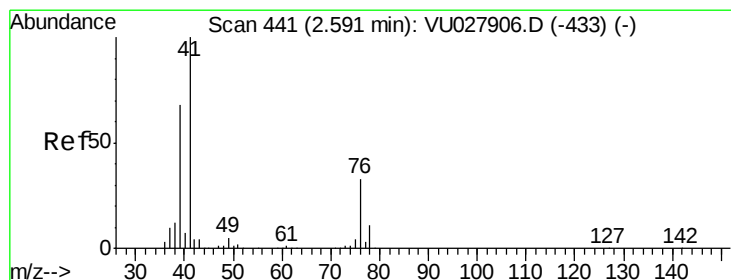
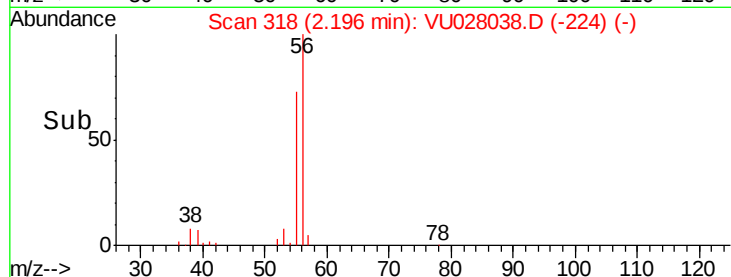
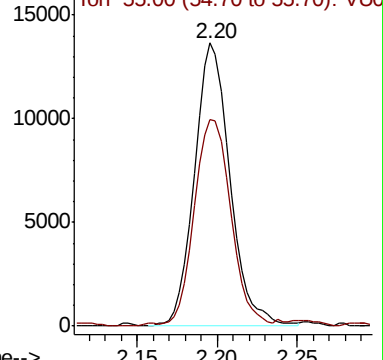
APPROVED

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Abundance Ion 56.00 (55.70 to 56.70): VU027906.D (-306) (-)



#14

Allyl chloride

Concen: 17.701 ug/l

RT: 2.59 min Scan# 442

Delta R.T. 0.00 min

Lab File: VU028038.D

Acq: 09 Nov 2018 12:41

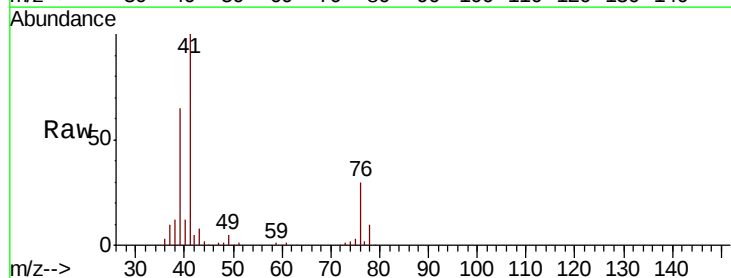
Tgt Ion: 41 Resp: 82309

Ion Ratio Lower Upper

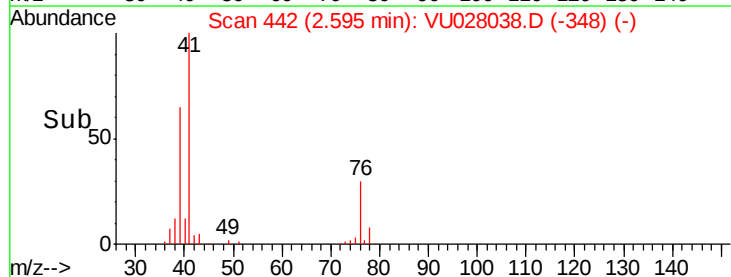
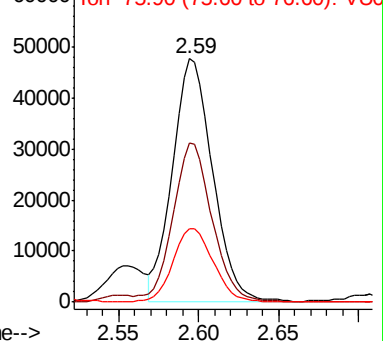
41 100

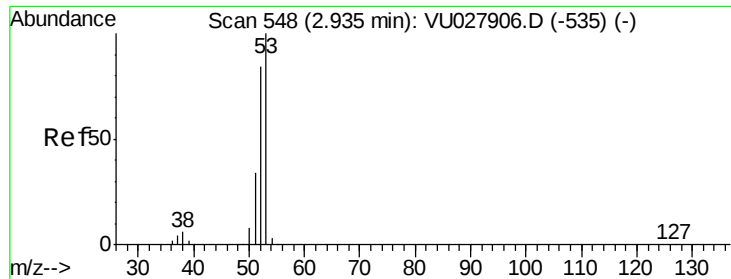
39 63.3 51.9 77.9

76 30.6 23.8 35.6



Abundance Ion 41.00 (40.70 to 41.70): VU027906.D (-433) (-)





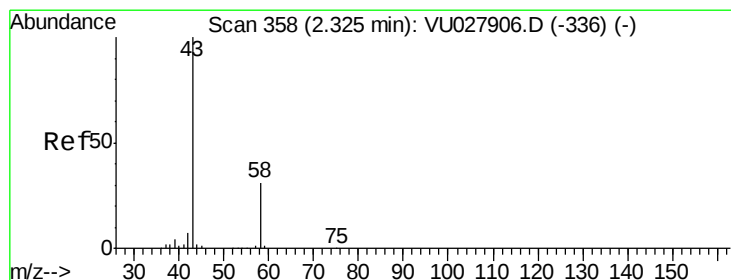
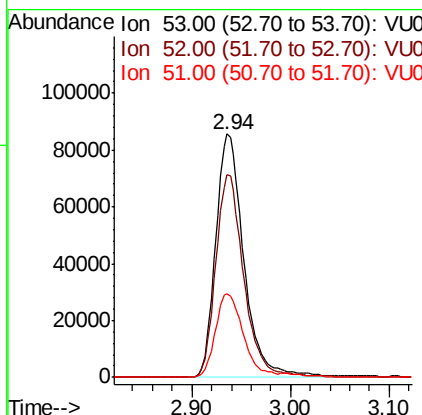
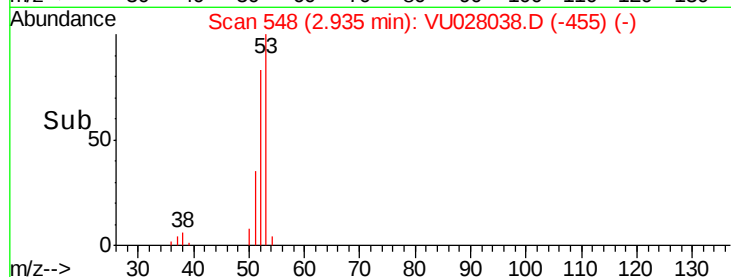
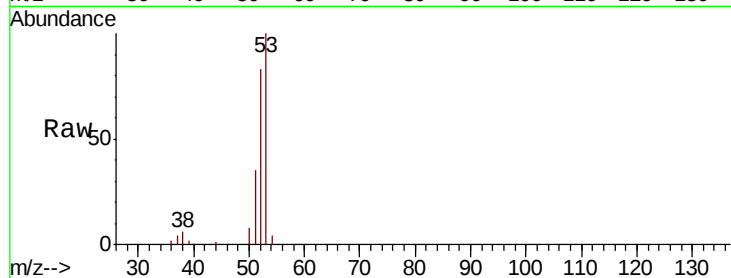
#15
 Acrylonitrile
 Concen: 97.440 ug/l
 RT: 2.94 min Scan# 548
 Delta R.T. -0.00 min
 Lab File: VU028038.D
 Acq: 09 Nov 2018 12:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1109WBS01

Tot Ion:	53	Resp:	171018
Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.2	99.2
51	34.1	27.0	40.4

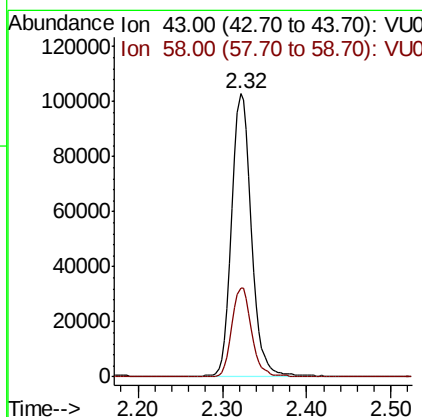
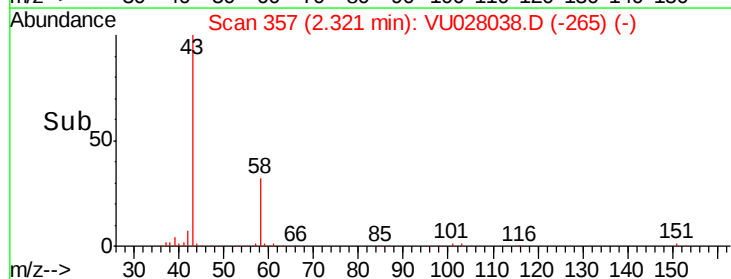
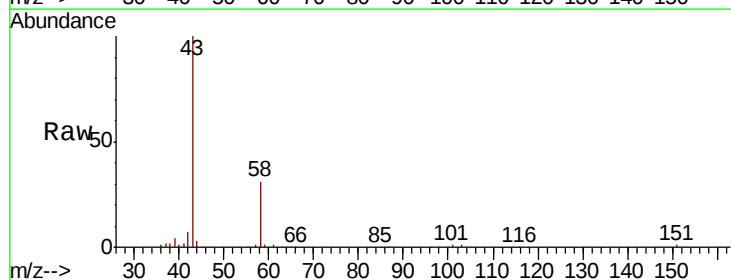
Manual Integrations
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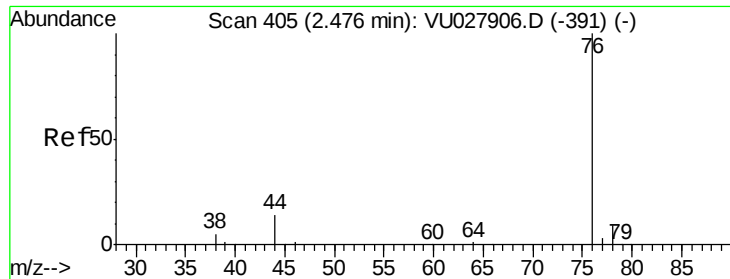
MMDadoda
 11/12/2018 12:01:51 PM



#16
 Acetone
 Concen: 99.882 ug/l
 RT: 2.32 min Scan# 357
 Delta R.T. -0.00 min
 Lab File: VU028038.D
 Acq: 09 Nov 2018 12:41

Tgt Ion:	43	Resp:	167255
Ion	Ratio	Lower	Upper
43	100		
58	31.5	24.6	37.0





#17

Carbon Disulfide

Concen: 17.878 ug/l

RT: 2.48 min Scan# 407

Delta R.T. 0.01 min

Lab File: VU028038.D

Acq: 09 Nov 2018 12:41

Instrument :

MSVOA_U

ClientSampleId :

VU1109WBS01

Tot Ion: 76 Resp: 111178

Ion Ratio Lower Upper

76 100

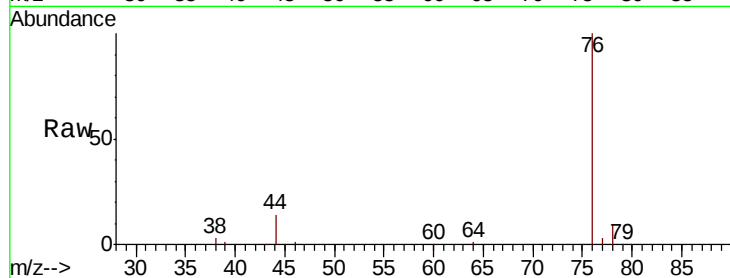
78 9.7 7.4 11.0

Manual Integrations

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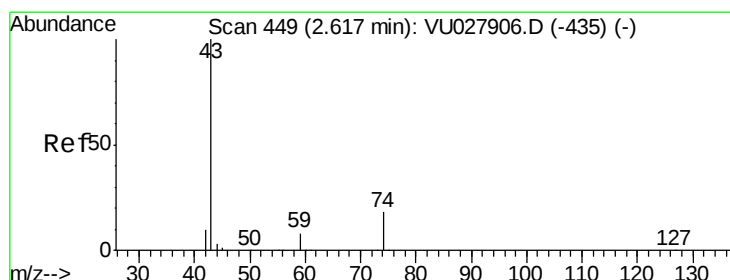
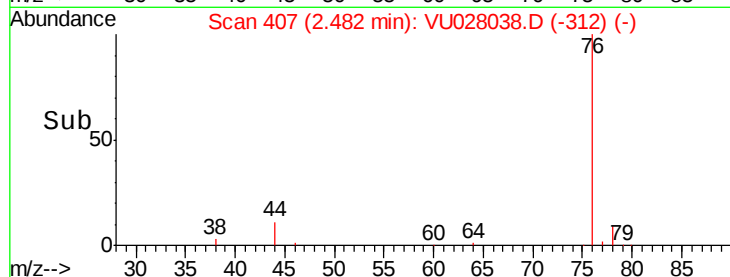
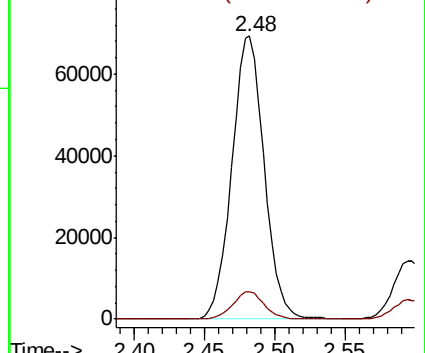
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Abundance Ion 75.90 (75.60 to 76.60): VU027906.D (-391) (-)

Ion 77.90 (77.60 to 78.60): VU028038.D (-312) (-)



#18

Methyl Acetate

Concen: 19.251 ug/l

RT: 2.62 min Scan# 449

Delta R.T. -0.00 min

Lab File: VU028038.D

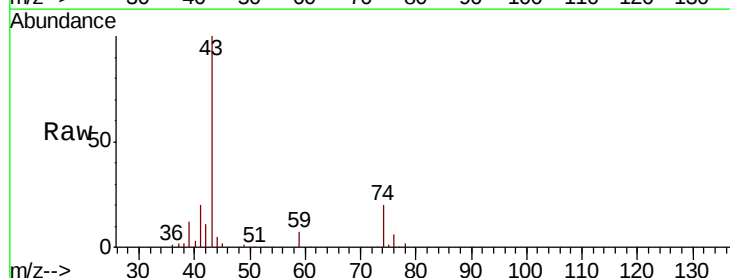
Acq: 09 Nov 2018 12:41

Tgt Ion: 43 Resp: 88678

Ion Ratio Lower Upper

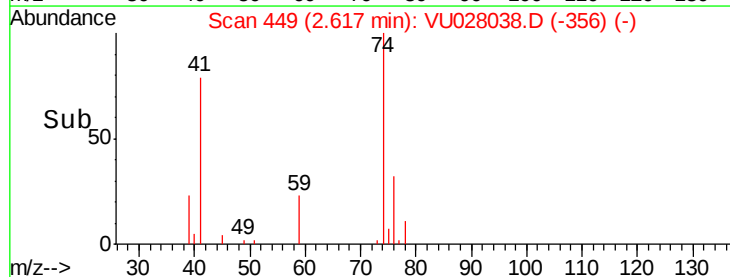
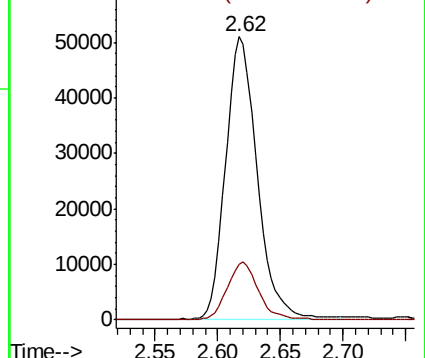
43 100

74 20.3 14.9 22.3



Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-435) (-)

Ion 74.00 (73.70 to 74.70): VU028038.D (-356) (-)





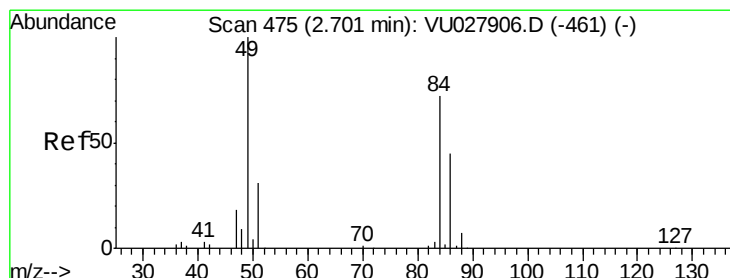
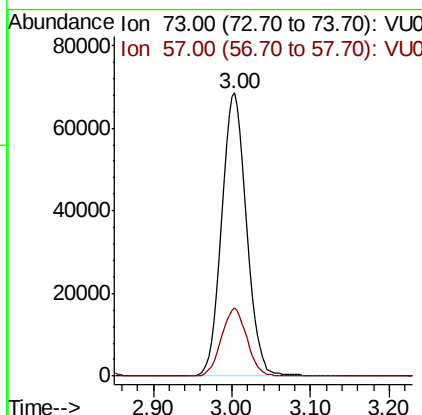
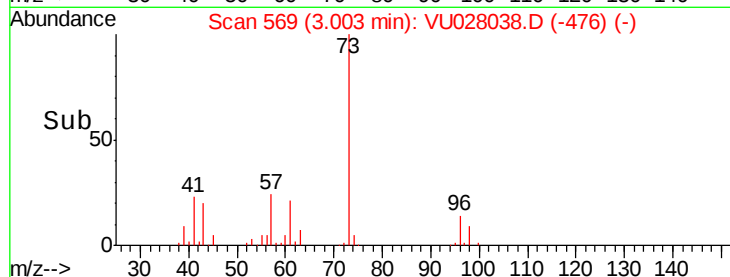
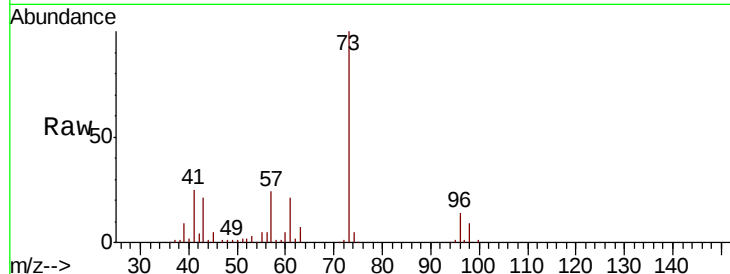
#19
Methyl tert-butyl Ether
Concen: 19.415 ug/l
RT: 3.00 min Scan# 569
Delta R.T. -0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	24.0	19.3	28.9

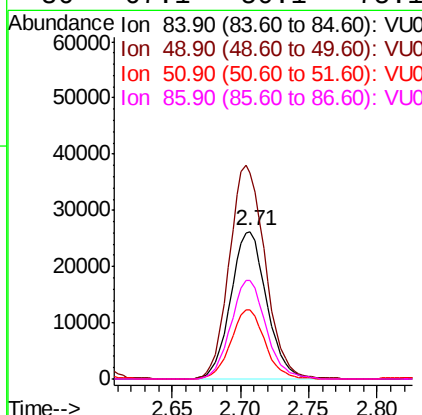
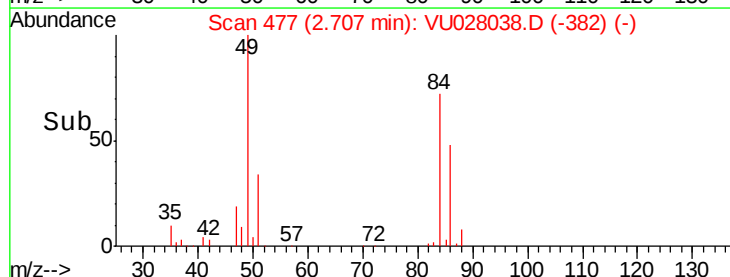
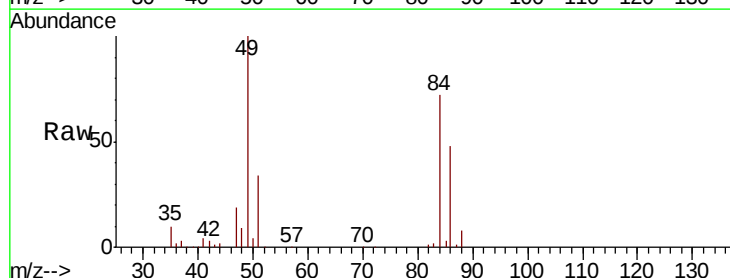
Manual Integrations
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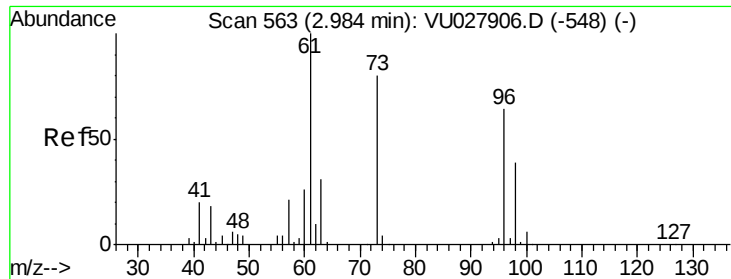
MMDadoda
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#20
Methylene Chloride
Concen: 19.574 ug/l
RT: 2.71 min Scan# 477
Delta R.T. 0.01 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Tgt Ion	Ratio	Lower	Upper
84	100		
49	139.6	111.6	167.4
51	47.2	34.8	52.2
86	67.1	50.1	75.1





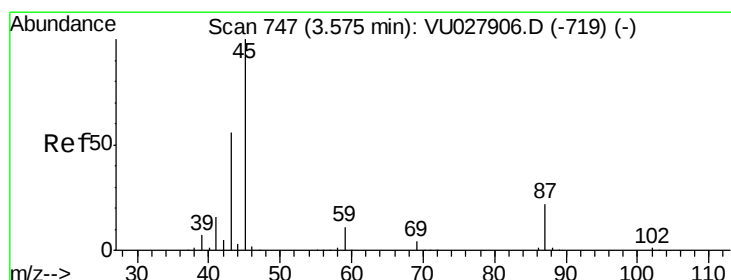
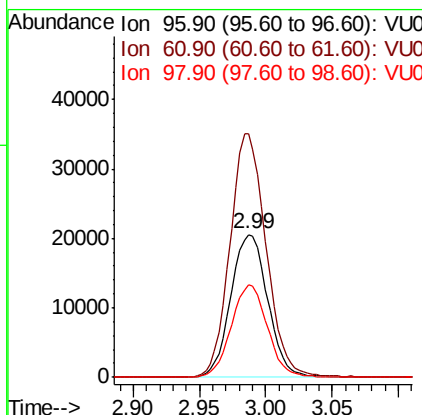
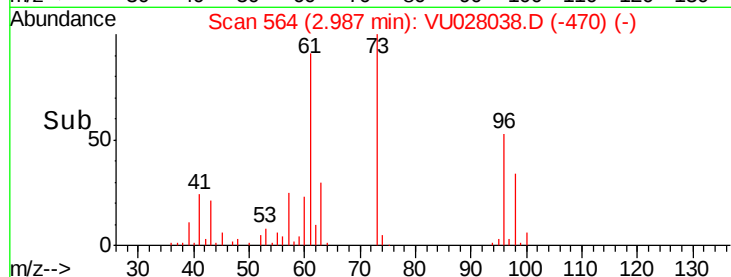
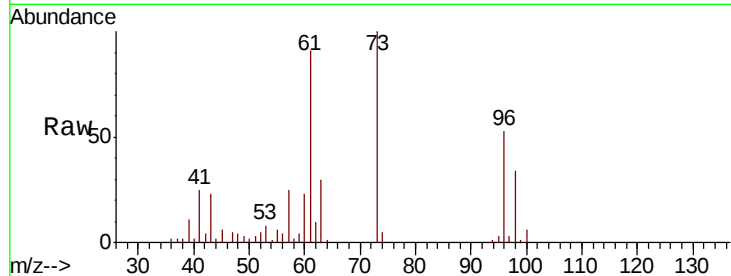
#21
trans-1,2-Dichloroethene
Concen: 18.170 ug/l
RT: 2.99 min Scan# 564
Delta R.T. 0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	170.1	125.0	187.6
98	64.5	48.2	72.4

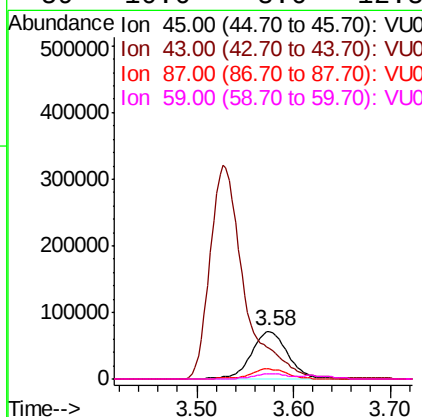
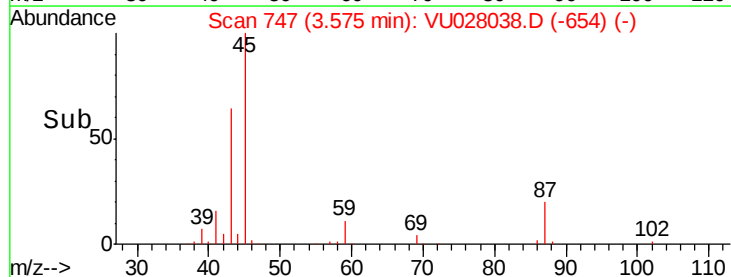
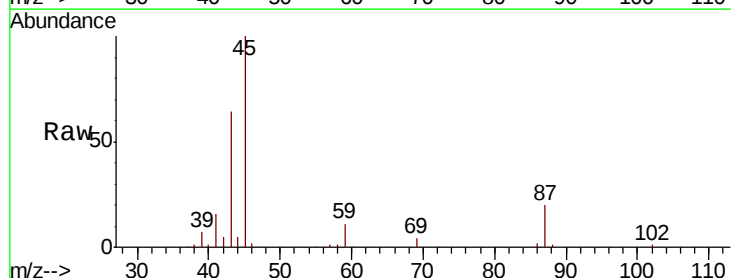
Manual Integrations
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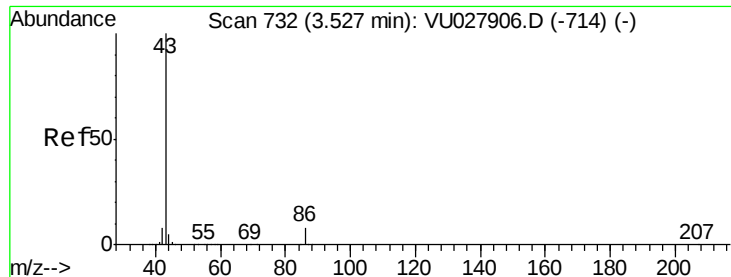
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#22
Diisopropyl ether
Concen: 19.582 ug/l
RT: 3.58 min Scan# 747
Delta R.T. -0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Tgt Ion	Ratio	Lower	Upper
45	100		
43	60.6	45.0	67.6
87	20.4	17.9	26.9
59	10.6	8.6	12.8





#23

Vinyl Acetate

Concen: 96.391 ug/l

RT: 3.53 min Scan# 732

Delta R.T. -0.00 min

Lab File: VU028038.D

Acq: 09 Nov 2018 12:41

Instrument :

MSVOA_U

ClientSampleId :

VU1109WBS01

Tot Ion: 43 Resp: 795279

Ion Ratio Lower Upper

43 100

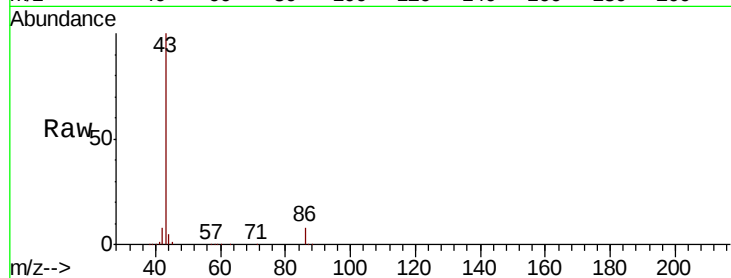
86 8.1 6.6 9.8

Manual Integrations

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MMDadoda

11/12/2018 12:01:51 PM



Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-714) (-)

Ion 86.00 (85.70 to 86.70): VU027906.D (-714) (-)

3.53

300000

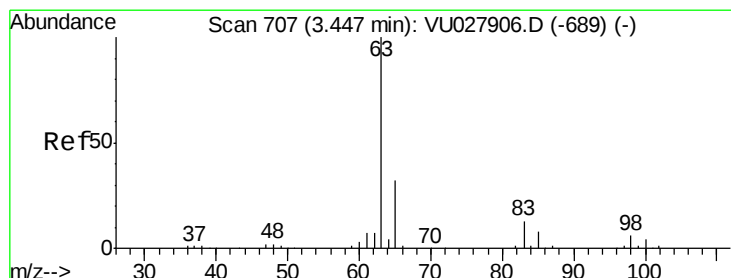
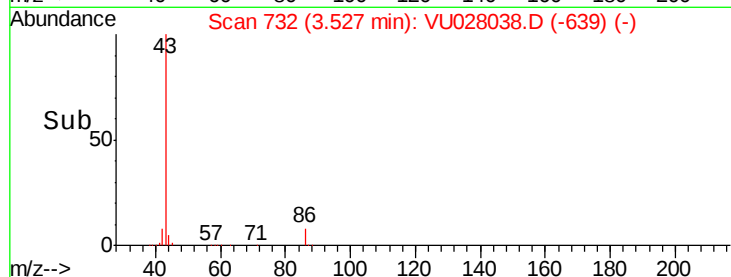
200000

100000

0

3.40 3.50 3.60 3.70

Time-->



#24

1,1-Dichloroethane

Concen: 19.009 ug/l

RT: 3.45 min Scan# 708

Delta R.T. 0.00 min

Lab File: VU028038.D

Acq: 09 Nov 2018 12:41

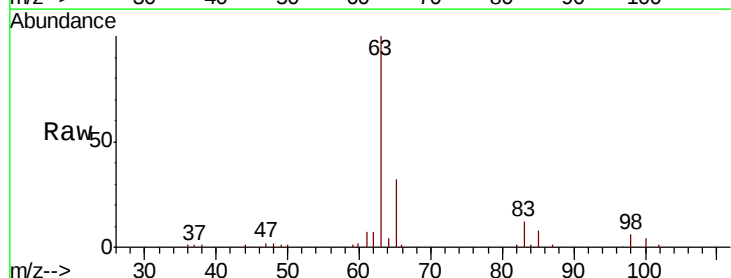
Tgt Ion: 63 Resp: 90894

Ion Ratio Lower Upper

63 100

98 5.5 2.9 8.6

100 4.1 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VU027906.D (-689) (-)

Ion 97.90 (97.60 to 98.60): VU027906.D (-689) (-)

Ion 99.90 (99.60 to 100.60): VU027906.D (-689) (-)

3.45

50000

40000

30000

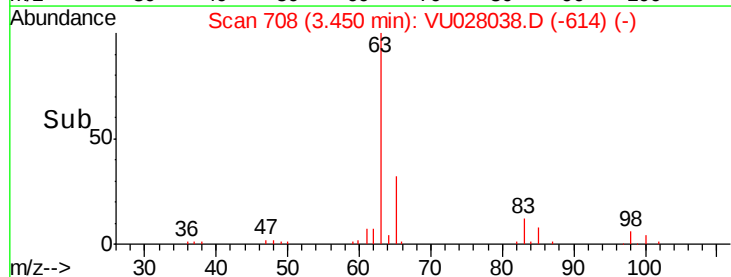
20000

10000

0

3.40 3.50

Time-->





#25

2-Butanone

Concen: 95.345 ug/l

RT: 4.26 min Scan# 961

Delta R.T. -0.00 min

Lab File: VU028038.D

Acq: 09 Nov 2018 12:41

Instrument :

MSVOA_U

ClientSampleId :

VU1109WBS01

Tot Ion: 43 Resp: 254003

Ion Ratio Lower Upper

43 100

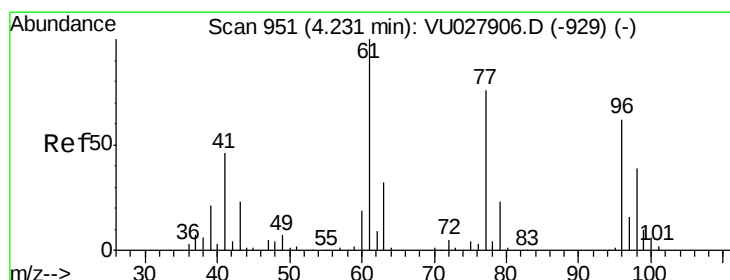
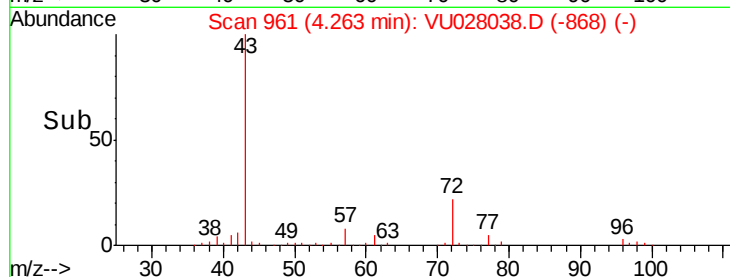
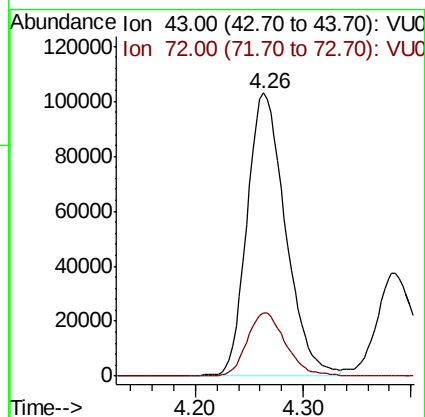
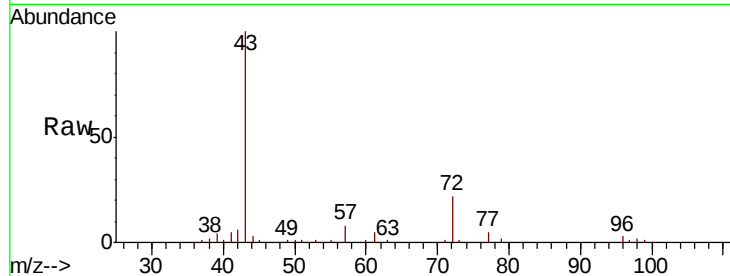
72 22.2 17.7 26.5

Manual Integrations

APPROVED

MMDadoda

11/12/2018 12:01:51 PM



#26

2,2-Dichloropropane

Concen: 19.224 ug/l

RT: 4.23 min Scan# 951

Delta R.T. -0.00 min

Lab File: VU028038.D

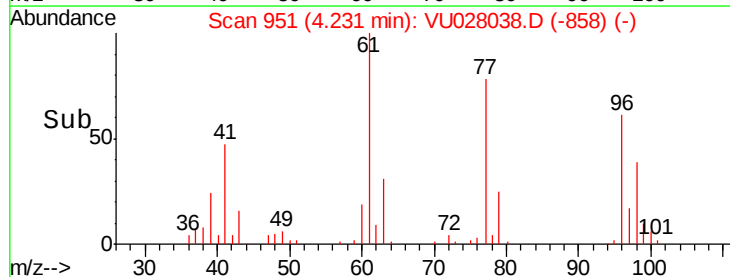
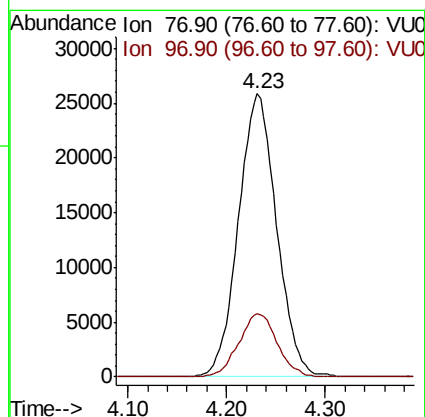
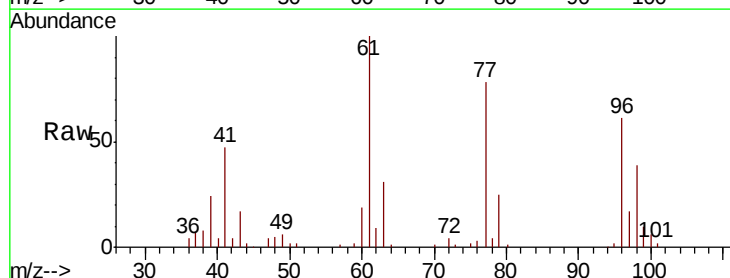
Acq: 09 Nov 2018 12:41

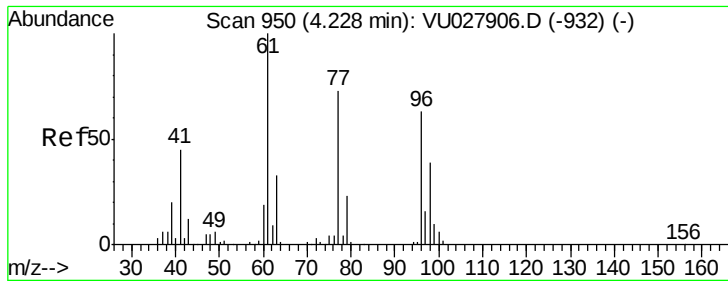
Tgt Ion: 77 Resp: 68985

Ion Ratio Lower Upper

77 100

97 22.5 11.2 33.5





#27

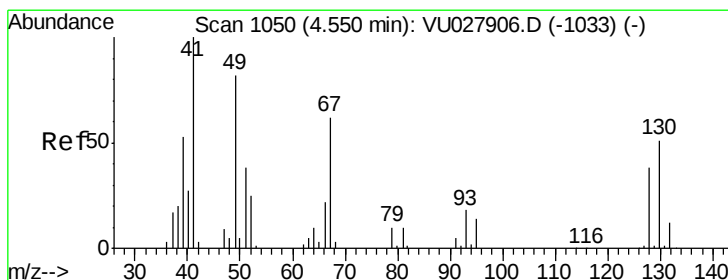
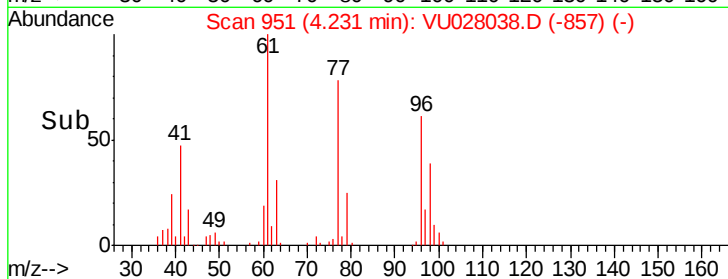
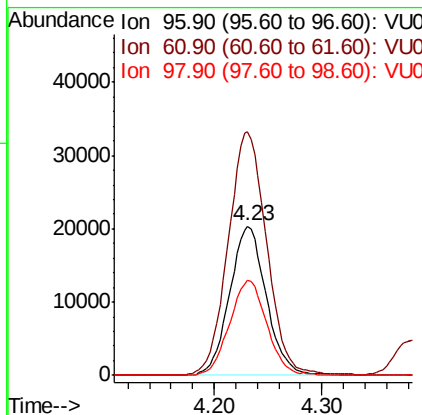
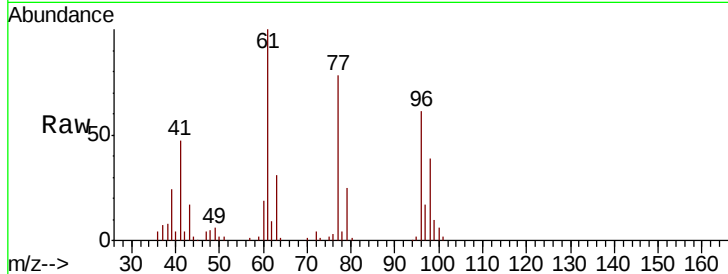
cis-1,2-Dichloroethene
Concen: 19.511 ug/l
RT: 4.23 min Scan# 951
Delta R.T. 0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	171.7	0.0	329.6
98	64.9	0.0	127.2

Manual Integrations
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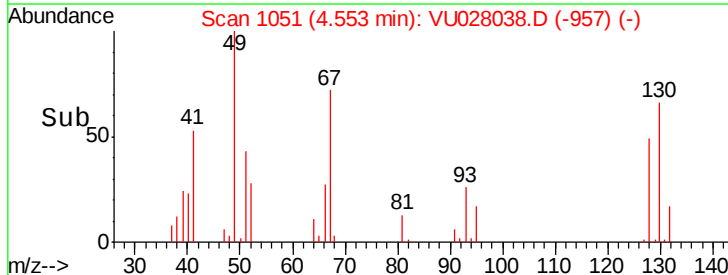
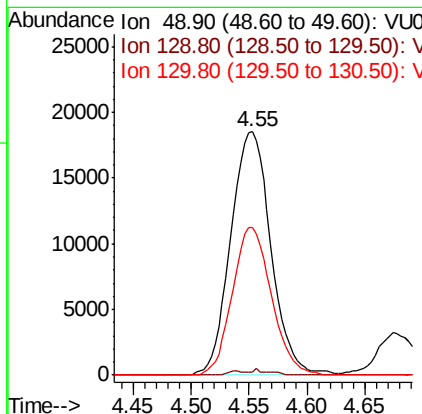
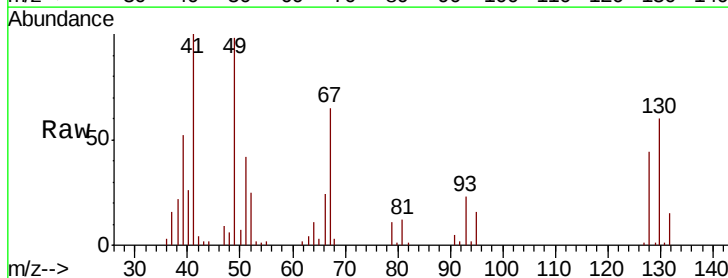
MMDadoda
11/12/2018 12:01:51 PM

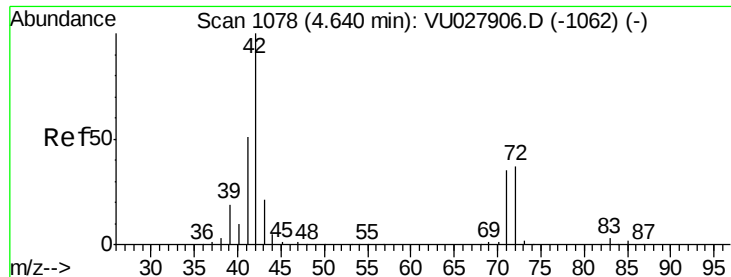


#28

Bromochloromethane
Concen: 19.895 ug/l
RT: 4.55 min Scan# 1051
Delta R.T. 0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.9	0.0	3.0
130	59.0	47.8	71.6





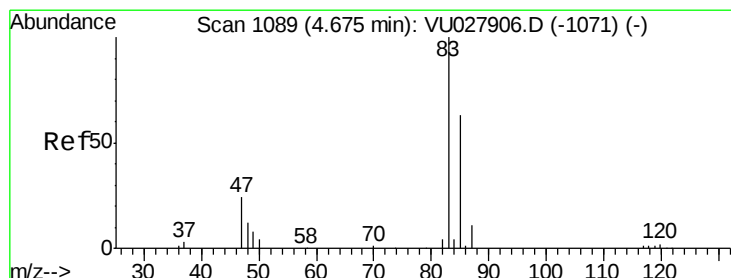
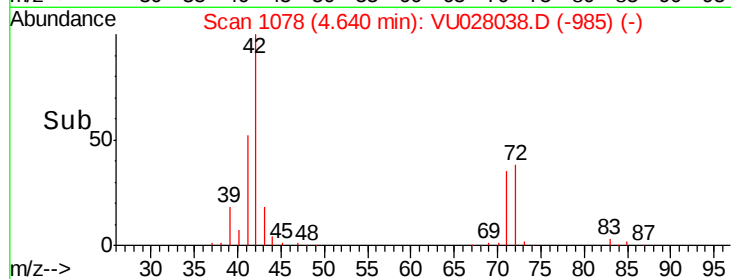
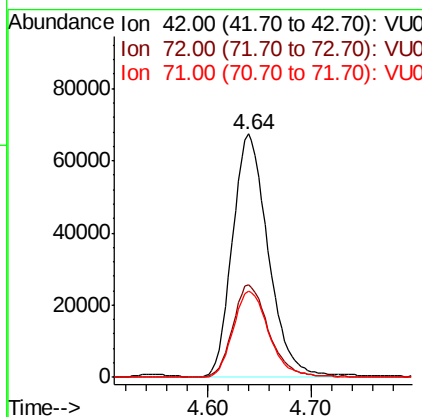
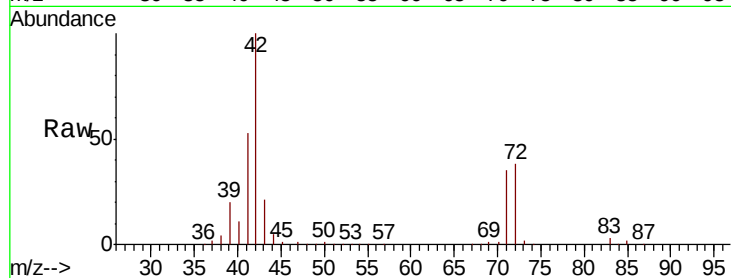
#29
Tetrahydrofuran
Concen: 91.193 ug/l
RT: 4.64 min Scan# 1078
Delta R.T. -0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.2	29.4	44.0
71	35.7	27.9	41.9

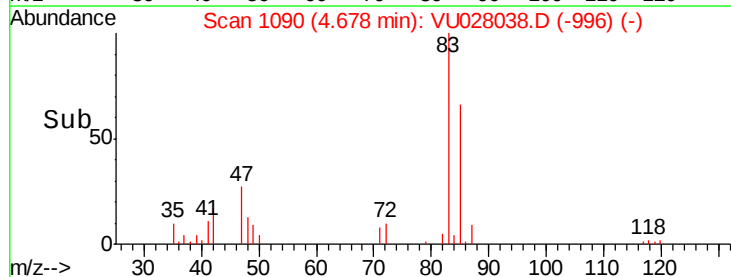
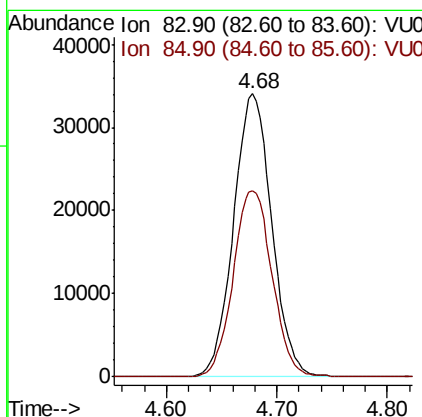
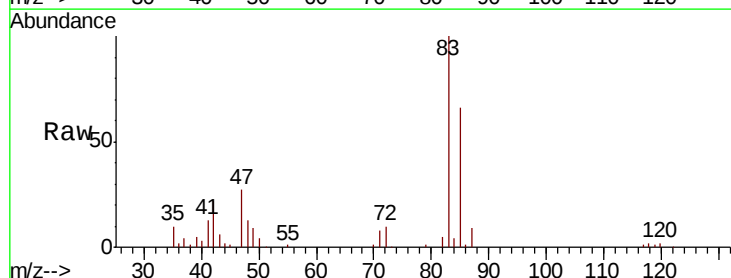
Manual Integrations
APPROVED

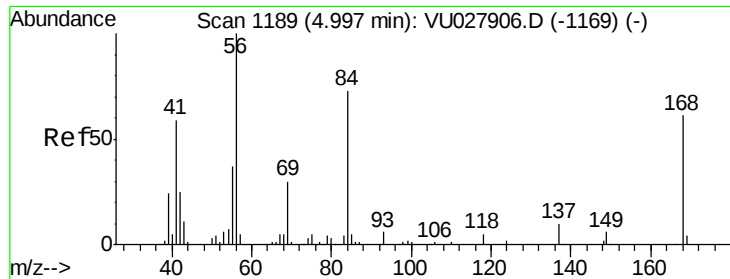
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11/12/2018 12:01:51 PM



#30
Chloroform
Concen: 18.613 ug/l
RT: 4.68 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.6	50.6	76.0





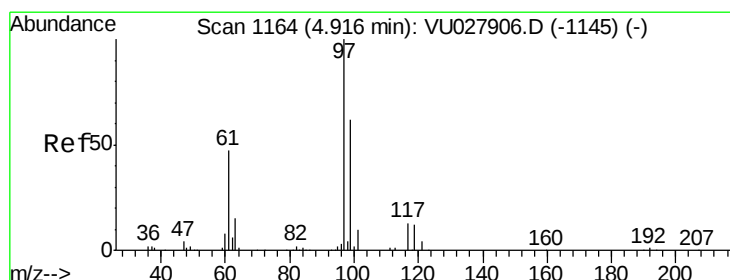
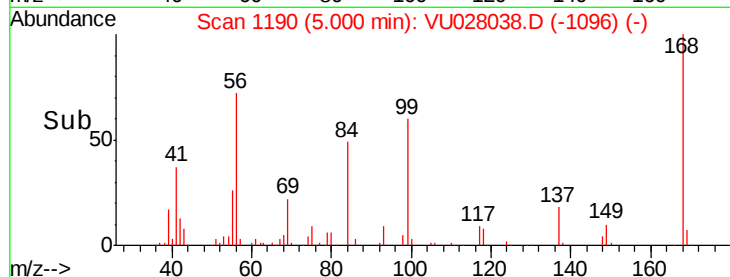
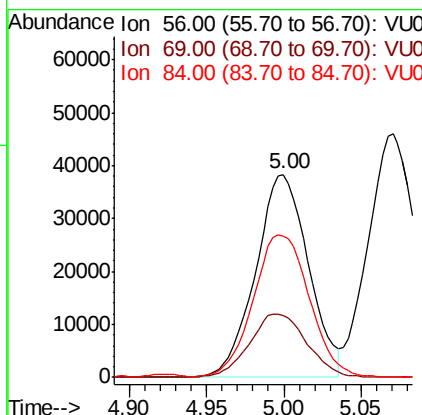
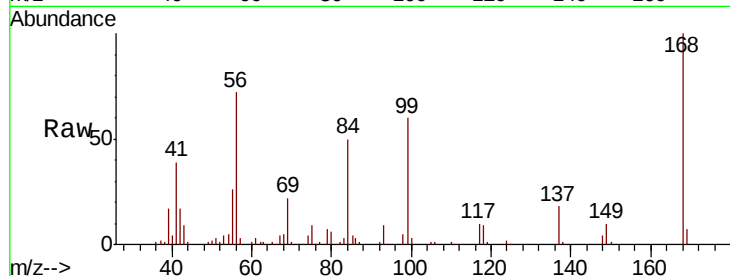
#31
Cyclohexane
Concen: 18.342 ug/l
RT: 5.00 min Scan# 1190
Delta R.T. 0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	30.5	23.7	35.5
84	69.2	58.2	87.4

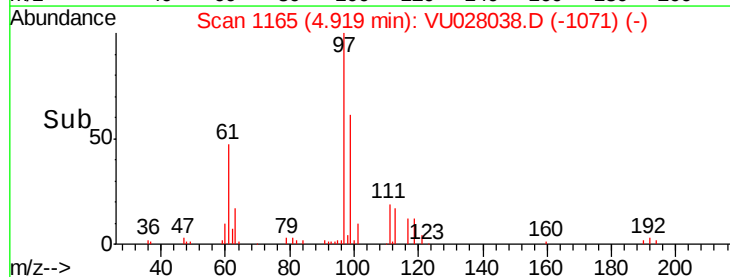
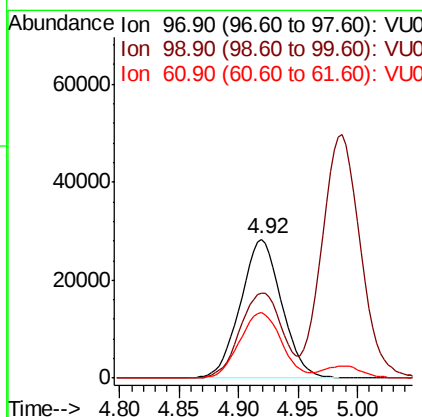
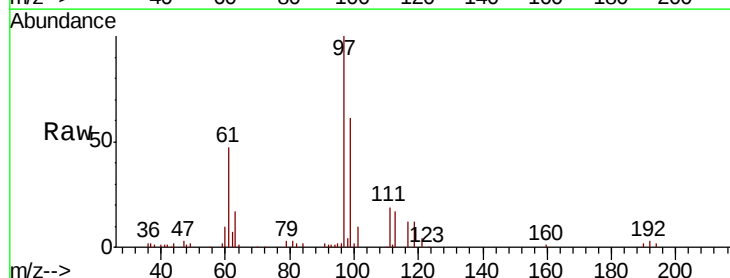
Manual Integrations
APPROVED

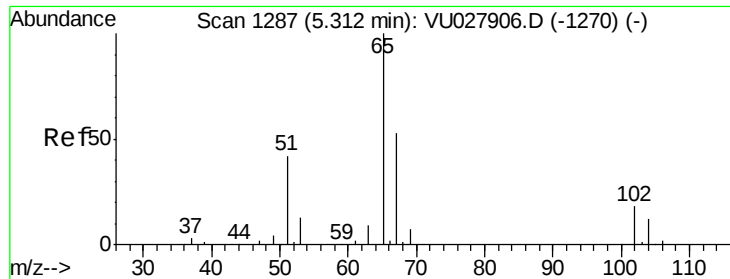
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 19.483 ug/l
RT: 4.92 min Scan# 1165
Delta R.T. 0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.1	50.5	75.7
61	48.2	38.3	57.5





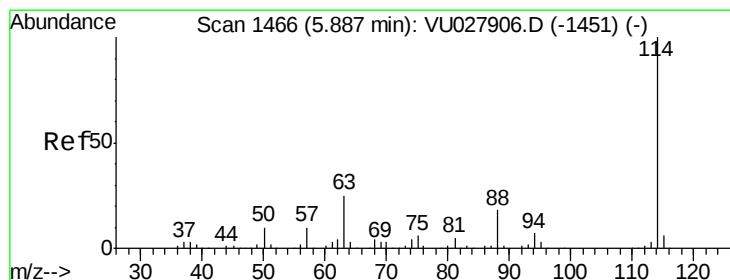
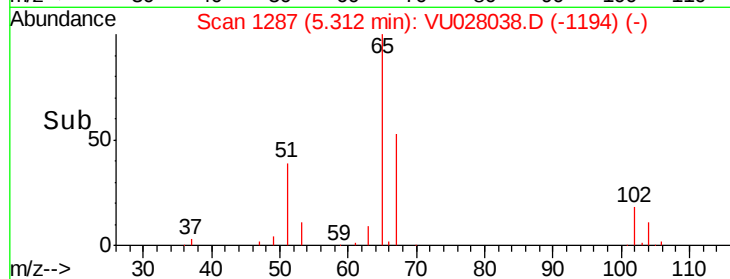
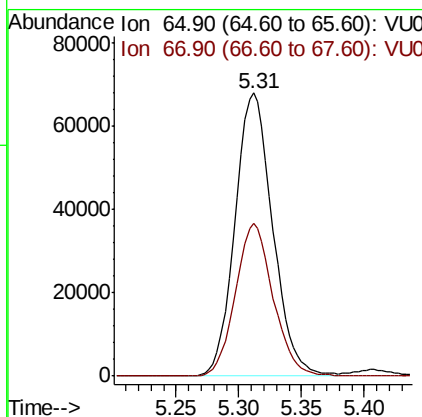
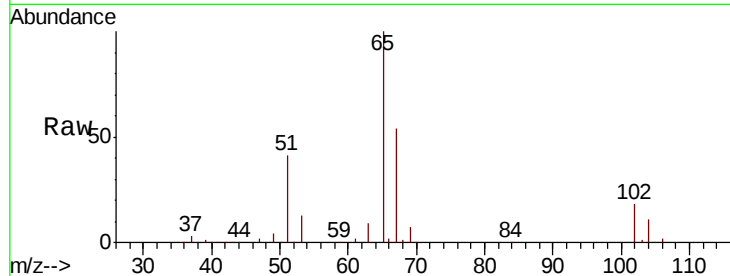
#33
 1,2-Dichloroethane-d4
 Concen: 52.686 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. -0.00 min
 Lab File: VU028038.D
 Acq: 09 Nov 2018 12:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1109WBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	142196		
67	54.1	0.0	109.0	

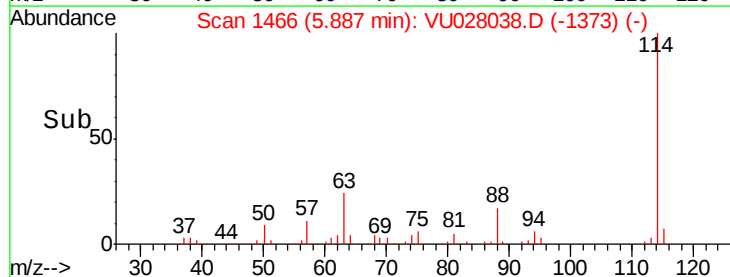
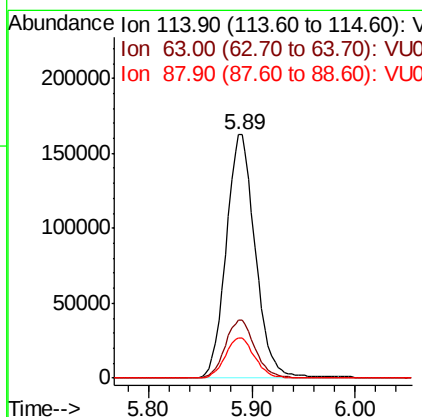
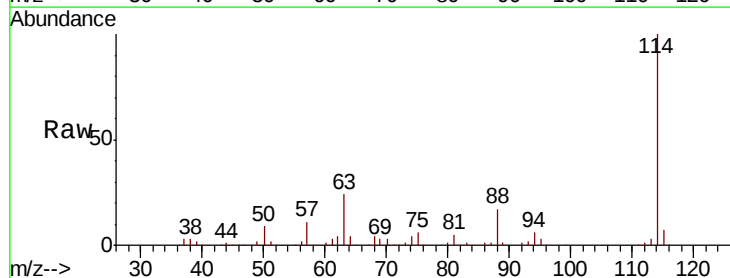
Manual Integrations
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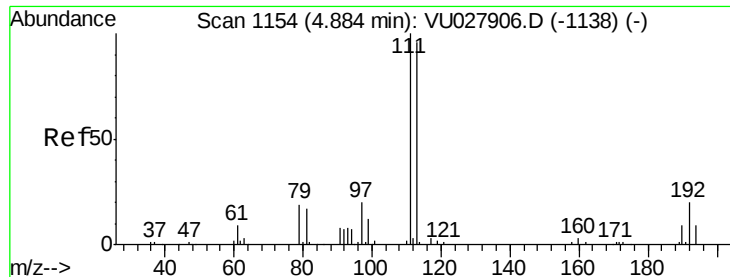
MMDadoda
 11/12/2018 12:01:51 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. -0.00 min
 Lab File: VU028038.D
 Acq: 09 Nov 2018 12:41

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	319738		
63	23.6	0.0	50.8	
88	16.7	0.0	35.8	





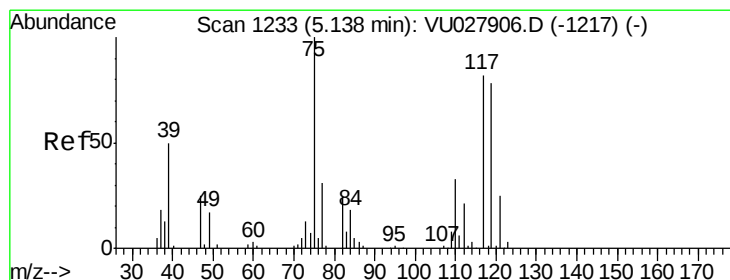
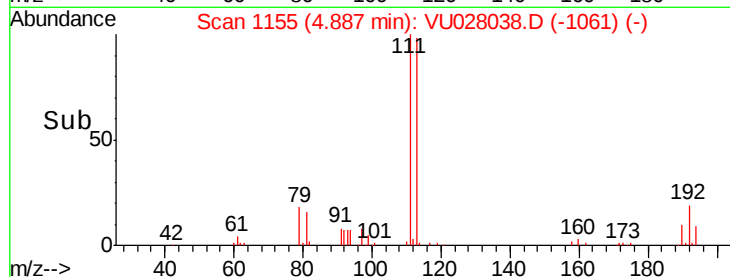
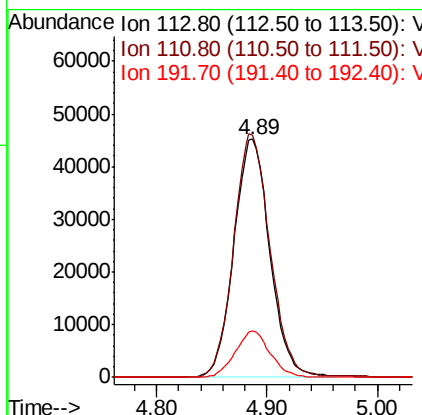
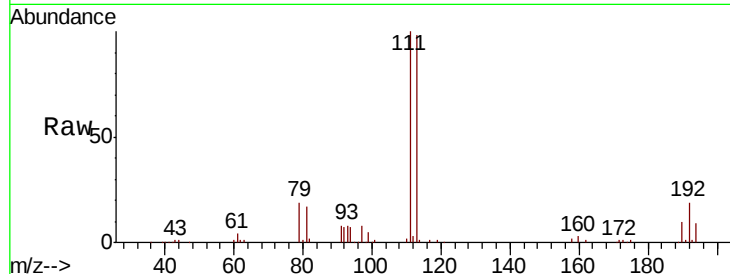
#35
 Dibromofluoromethane
 Concen: 50.723 ug/l
 RT: 4.89 min Scan# 1155
 Delta R.T. 0.00 min
 Lab File: VU028038.D
 Acq: 09 Nov 2018 12:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1109WBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	102258		
111	102.9	83.0	124.6	
192	18.7	15.6	23.4	

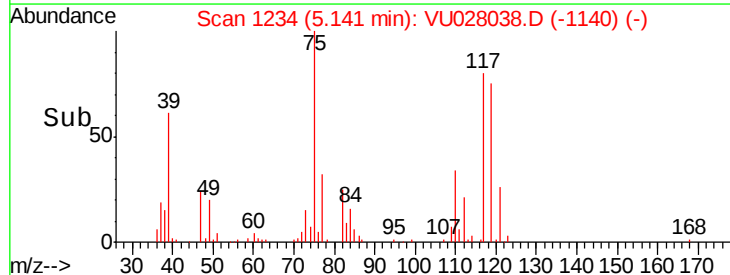
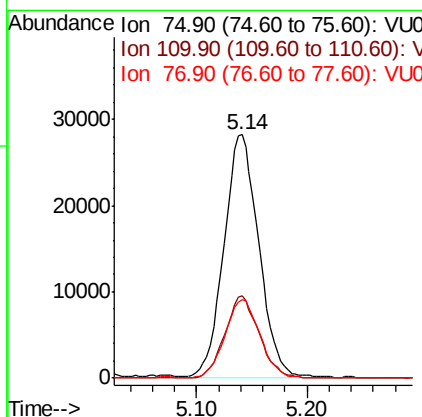
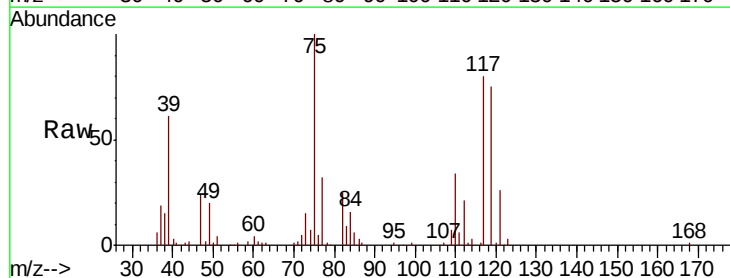
Manual Integrations
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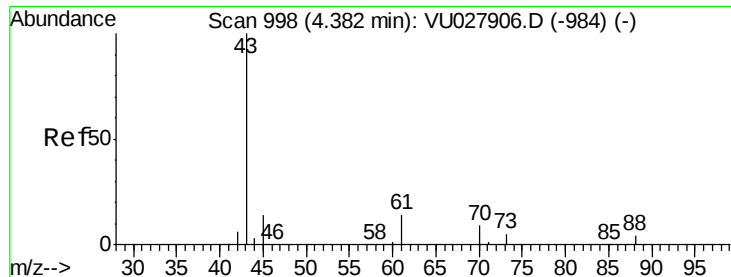
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 11/12/2018 12:01:51 PM



#36
 1,1-Dichloropropene
 Concen: 18.565 ug/l
 RT: 5.14 min Scan# 1234
 Delta R.T. 0.00 min
 Lab File: VU028038.D
 Acq: 09 Nov 2018 12:41

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	62169		
110	33.0	16.5	49.5	
77	32.3	24.9	37.3	





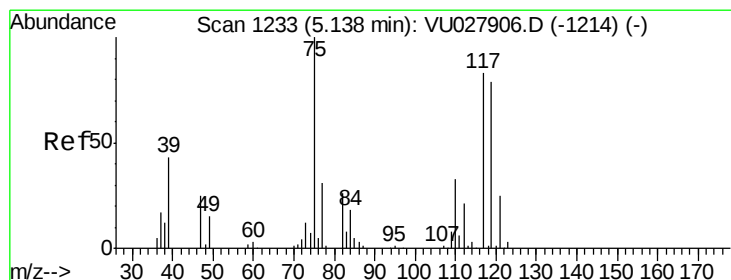
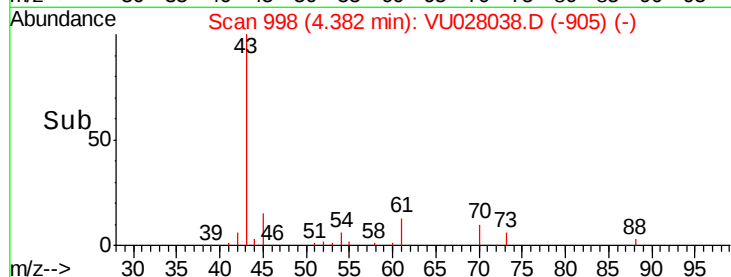
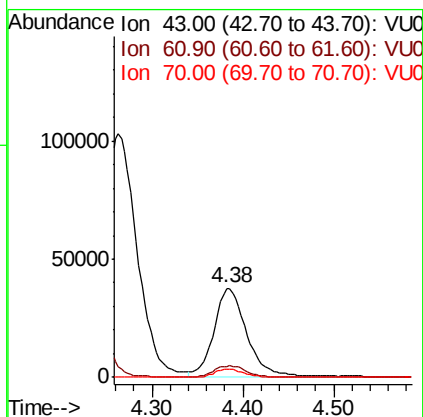
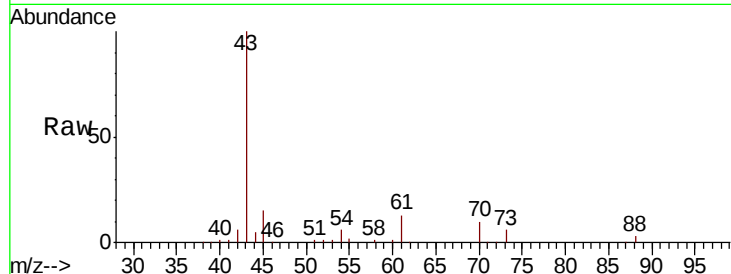
#37
Ethyl Acetate
Concen: 18.906 ug/l
RT: 4.38 min Scan# 998
Delta R.T. -0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.5	10.3	15.5
70	8.6	7.0	10.6

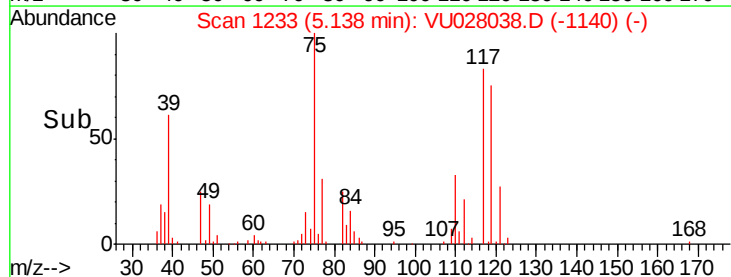
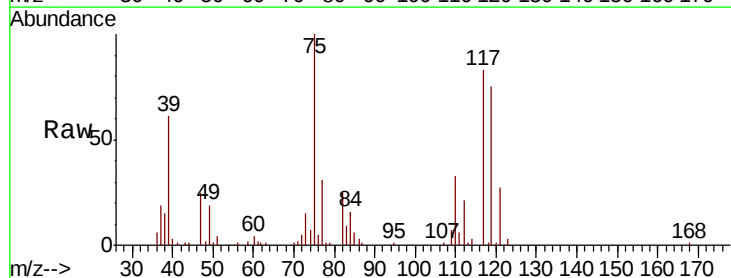
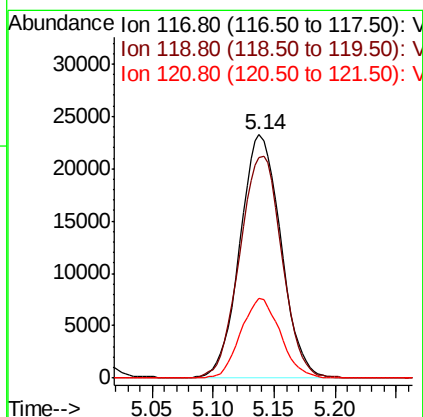
Manual Integrations
APPROVED

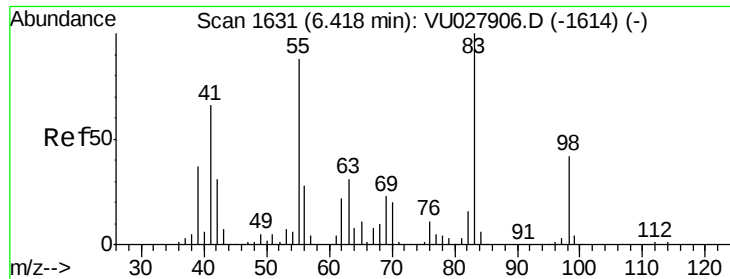
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#38
Carbon Tetrachloride
Concen: 18.158 ug/l
RT: 5.14 min Scan# 1233
Delta R.T. -0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Tgt Ion	Ratio	Lower	Upper
117	100		
119	90.6	76.0	114.0
121	32.6	24.5	36.7





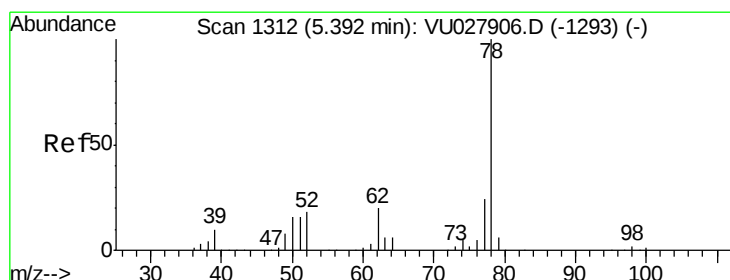
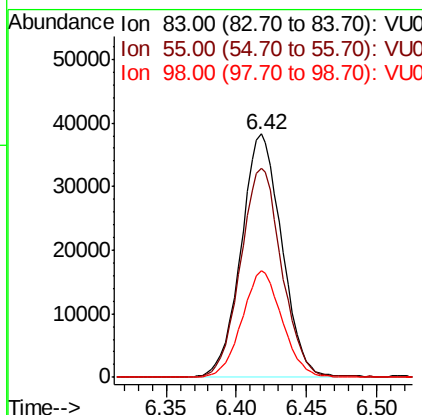
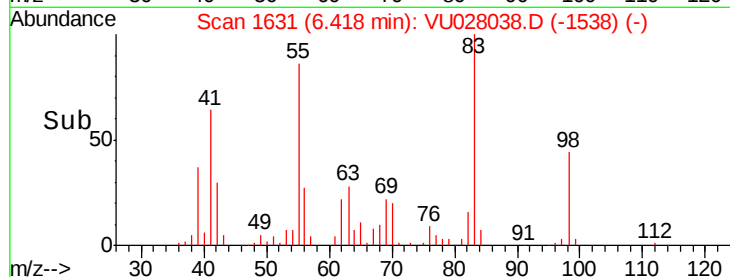
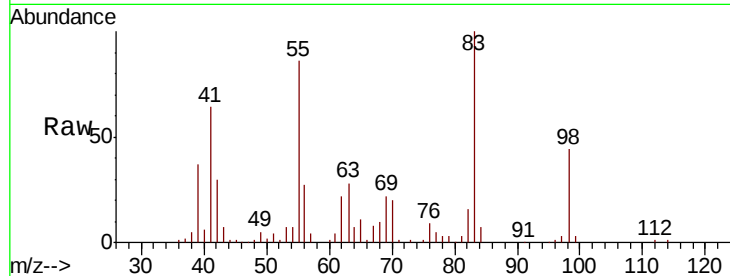
#39
Methvlcvclohexane
Concen: 19.122 ug/l
RT: 6.42 min Scan# 1631
Delta R.T. -0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBS01

Tot Ion	83	Resp	77234
Ion Ratio	Lower	Upper	
83	100		
55	86.0	70.3	105.5
98	44.0	34.0	51.0

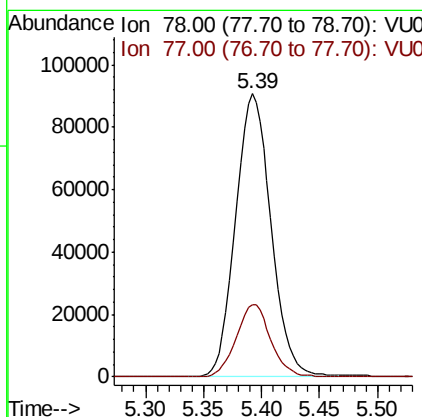
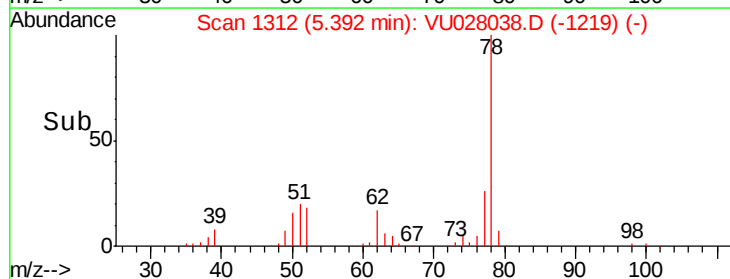
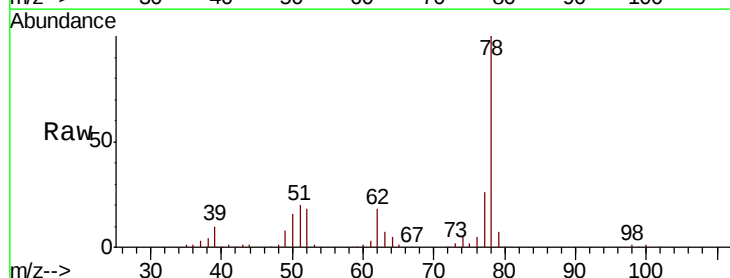
Manual Integrations
APPROVED

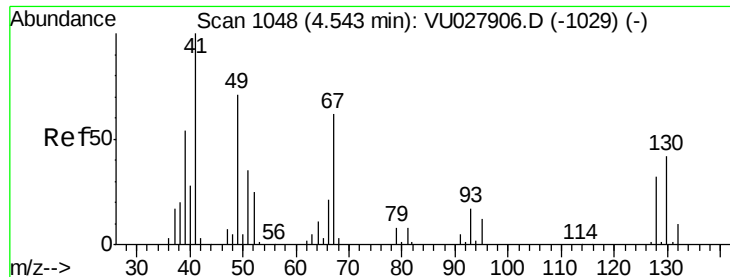
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#40
Benzene
Concen: 18.809 ug/l
RT: 5.39 min Scan# 1312
Delta R.T. -0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Tgt Ion	78	Resp	192571
Ion Ratio	Lower	Upper	
78	100		
77	25.7	19.3	28.9





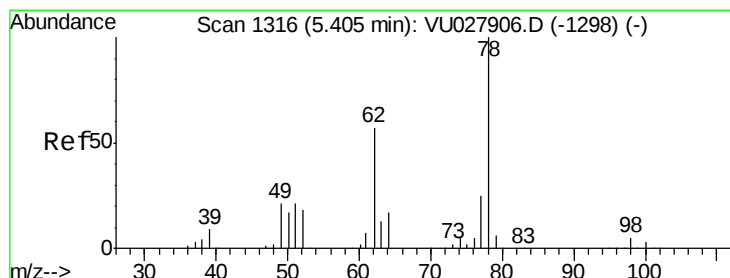
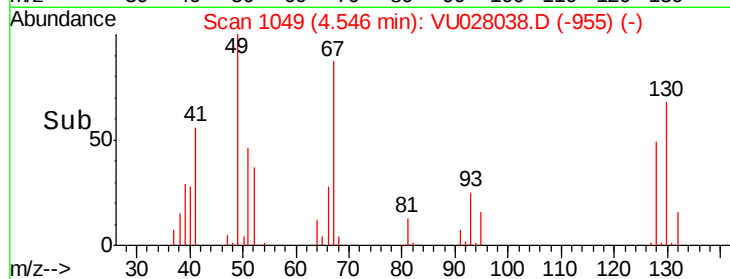
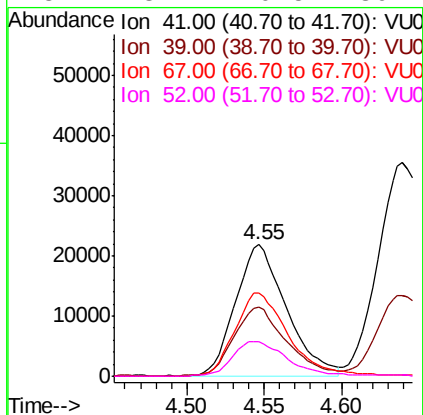
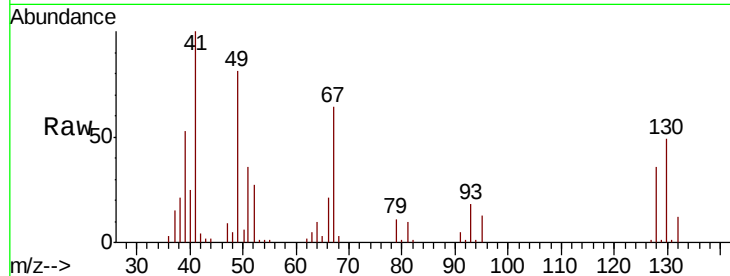
#41
Methacrylonitrile
Concen: 19.146 ug/l
RT: 4.55 min Scan# 1049
Delta R.T. 0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBS01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	54.8	42.2	63.4	
67	66.6	49.5	74.3	
52	28.1	20.5	30.7	

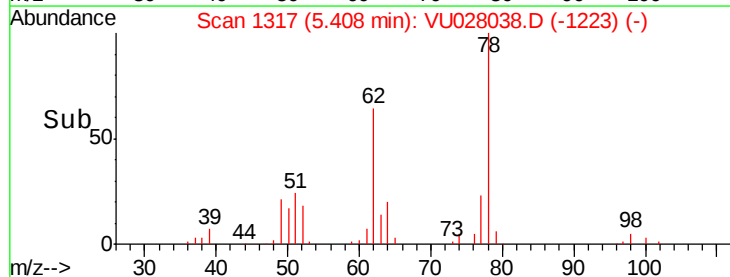
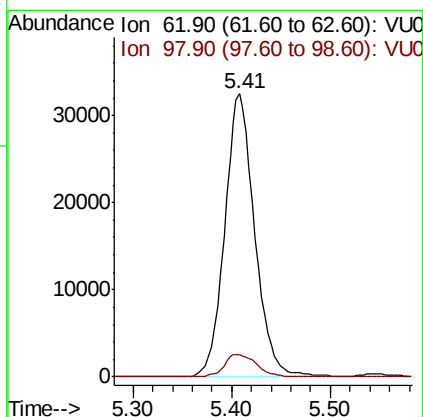
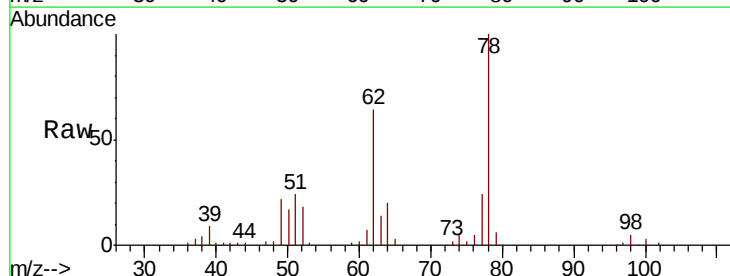
Manual Integrations
APPROVED

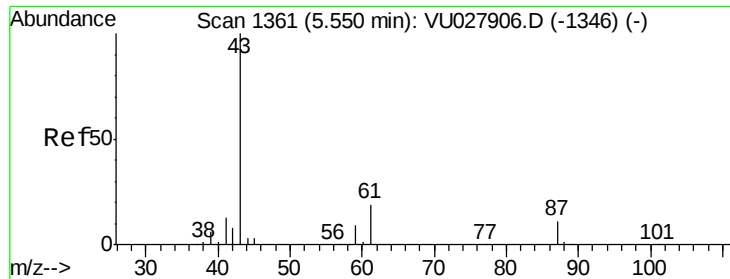
MMDadoda
11/12/2018 12:01:51 PM



#42
1,2-Dichloroethane
Concen: 18.909 ug/l
RT: 5.41 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.4	0.0	17.2	





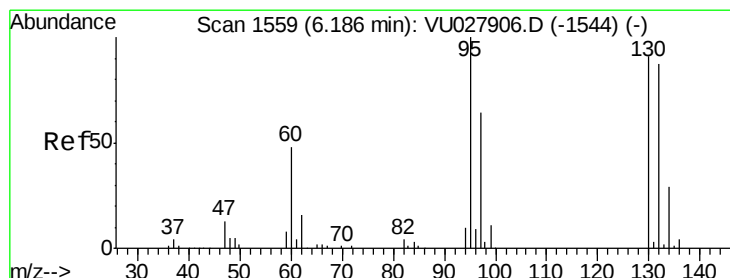
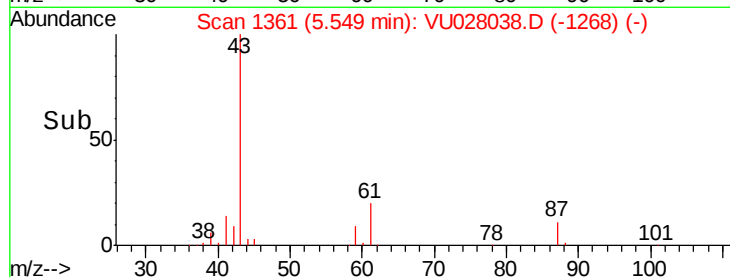
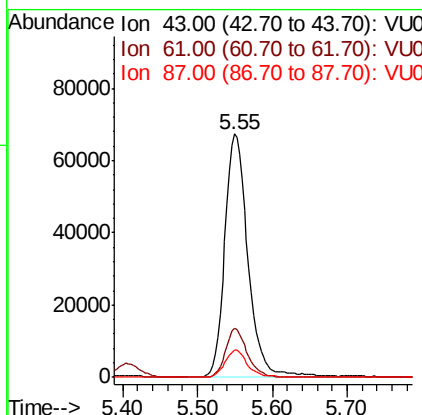
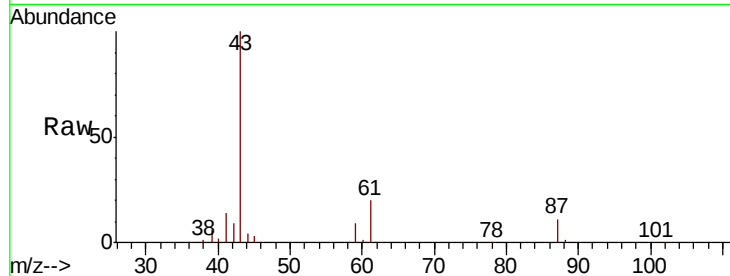
#43
Isopropyl Acetate
Concen: 18.876 ug/l
RT: 5.55 min Scan# 1361
Delta R.T. -0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	18.5	15.0	22.4
87	10.5	8.6	12.8

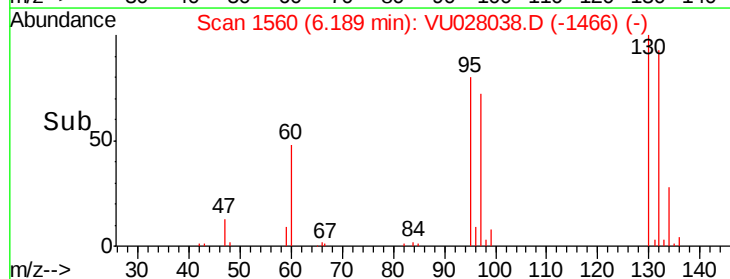
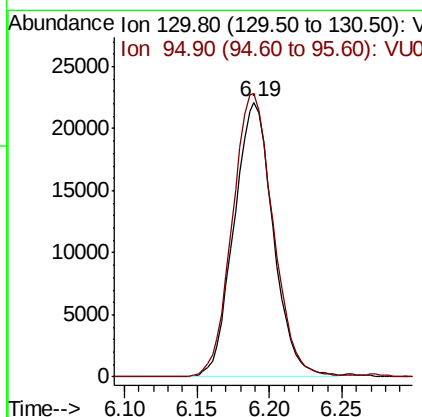
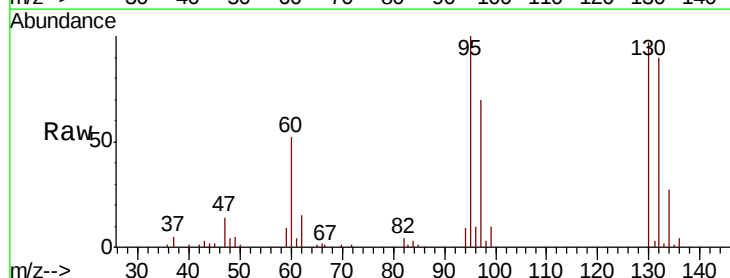
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#44
Trichloroethene
Concen: 18.946 ug/l
RT: 6.19 min Scan# 1560
Delta R.T. 0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Tgt Ion	Ratio	Lower	Upper
130	100		
95	103.0	0.0	219.2





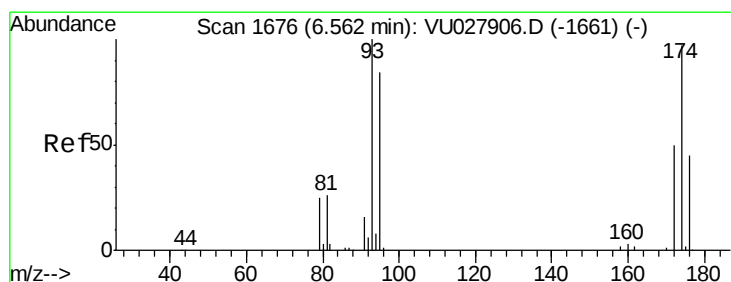
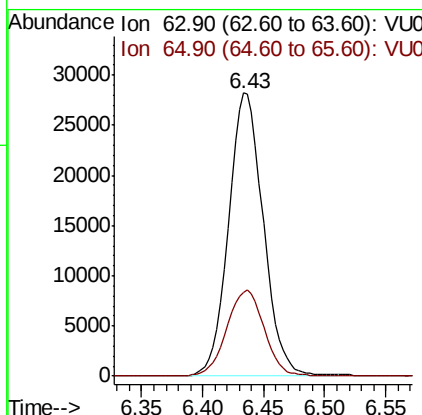
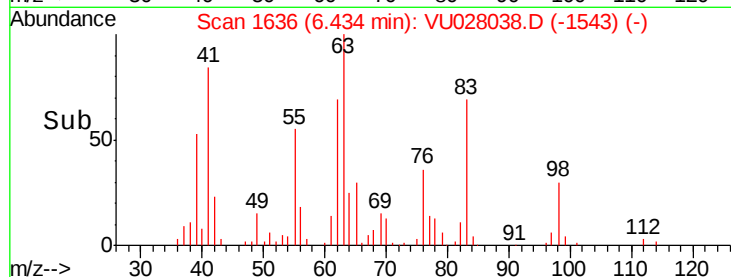
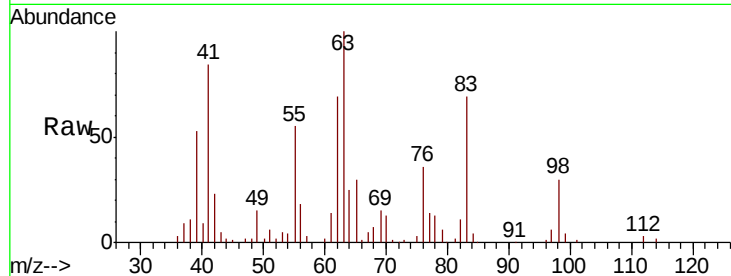
#45
 1,2-Dichloropropane
 Concen: 18.966 ug/l
 RT: 6.43 min Scan# 1636
 Delta R.T. -0.00 min
 Lab File: VU028038.D
 Acq: 09 Nov 2018 12:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1109WBS01

Tot Ion: 63 Resp: 56001
 Ion Ratio Lower Upper
 63 100
 65 29.7 24.4 36.6

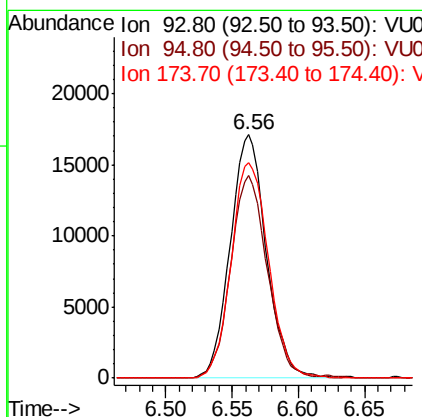
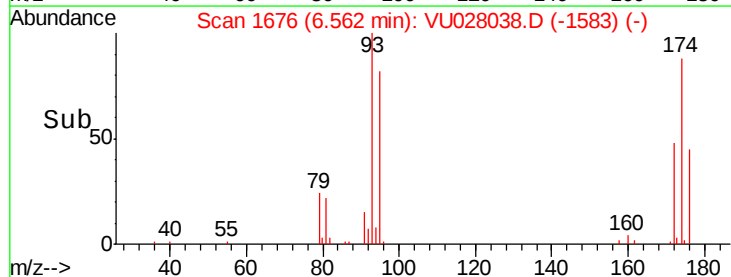
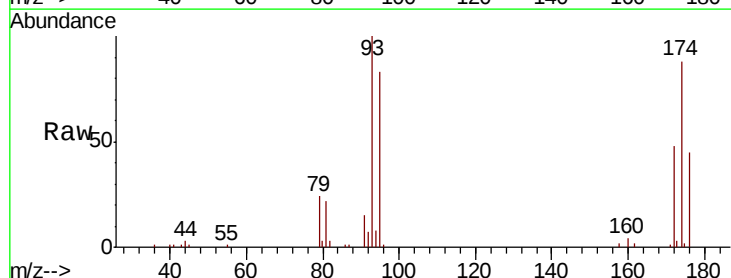
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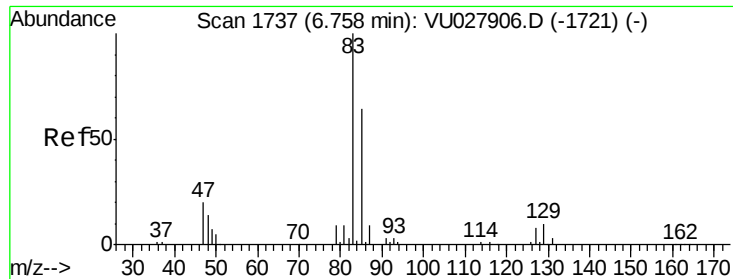
MMDadoda
 11/12/2018 12:01:51 PM



#46
 Dibromomethane
 Concen: 19.054 ug/l
 RT: 6.56 min Scan# 1676
 Delta R.T. -0.00 min
 Lab File: VU028038.D
 Acq: 09 Nov 2018 12:41

Tgt Ion: 93 Resp: 32339
 Ion Ratio Lower Upper
 93 100
 95 84.1 68.5 102.7
 174 91.6 76.1 114.1





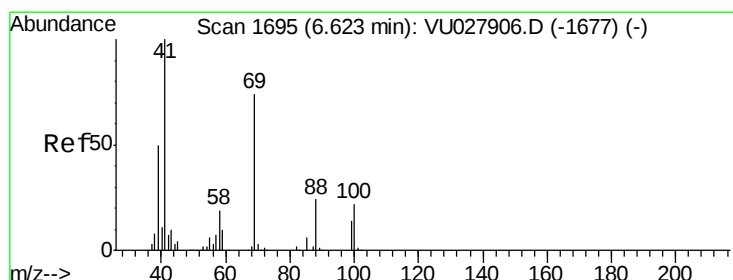
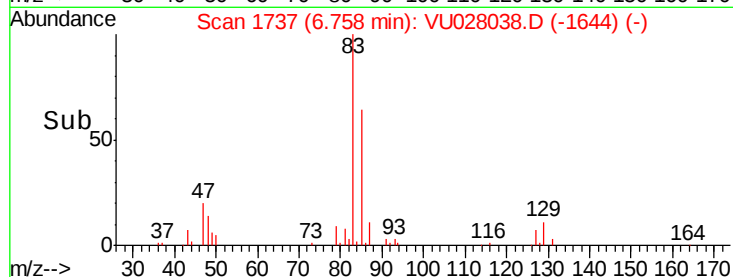
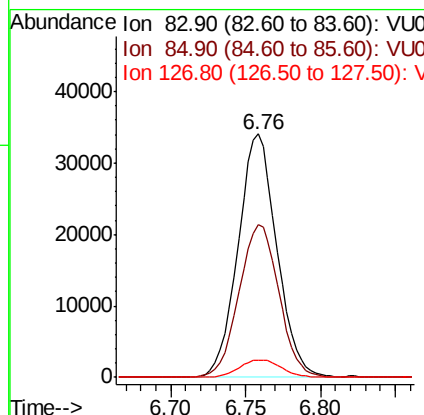
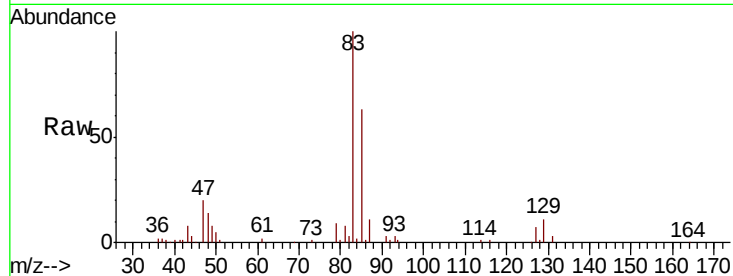
#47
Bromodichloromethane
Concen: 18.774 ug/l
RT: 6.76 min Scan# 1737
Delta R.T. -0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBS01

Tot Ion	83	Resp	61406
Ion Ratio	100	Lower	Upper
83	100		
85	62.5	51.0	76.6
127	7.1	6.2	9.4

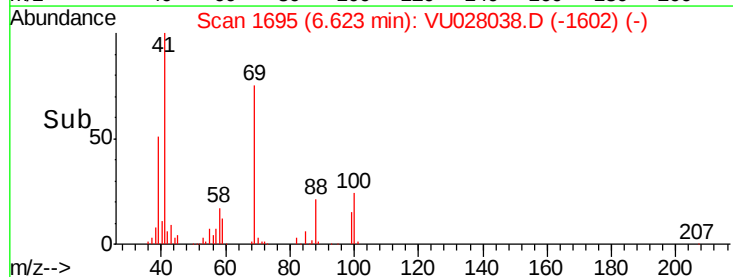
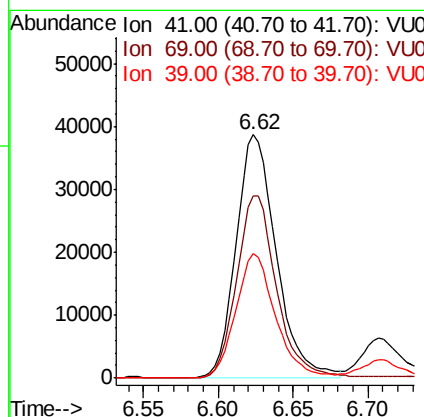
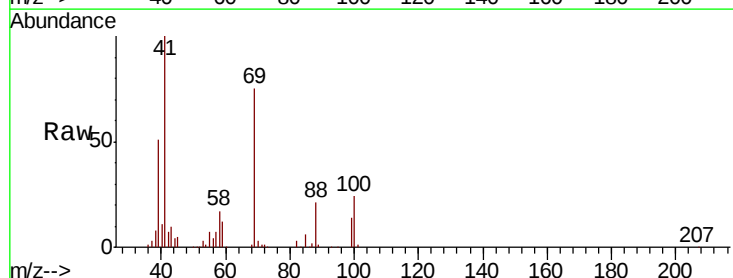
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#48
Methyl methacrylate
Concen: 19.276 ug/l
RT: 6.62 min Scan# 1695
Delta R.T. -0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Tgt Ion	41	Resp	72615
Ion Ratio	100	Lower	Upper
41	100		
69	74.5	59.8	89.8
39	49.5	40.0	60.0





#49

1,4-Dioxane

Concen: 367.849 ug/l

RT: 6.61 min Scan# 1692

Delta R.T. 0.00 min

Lab File: VU028038.D

Acq: 09 Nov 2018 12:41

Instrument :

MSVOA_U

ClientSampleId :

VU1109WBS01

Tot Ion: 88 Resp: 22608

Ion Ratio Lower Upper

88 100

43 38.7 30.5 45.7

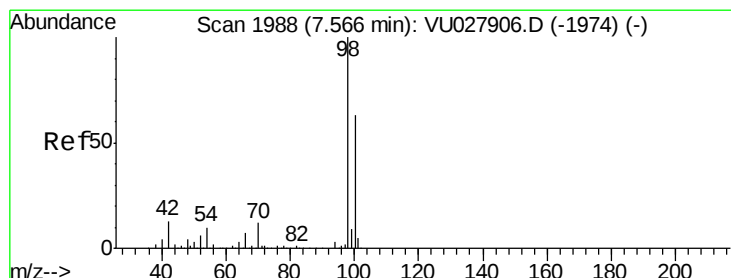
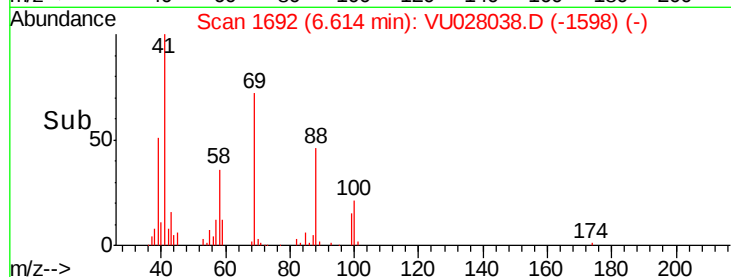
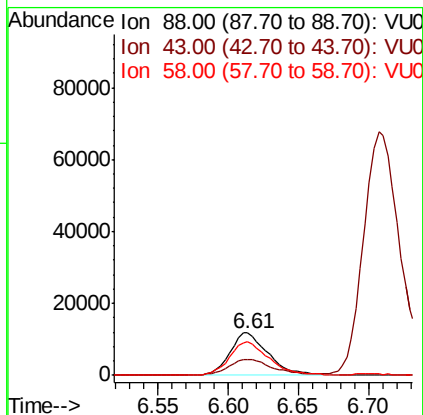
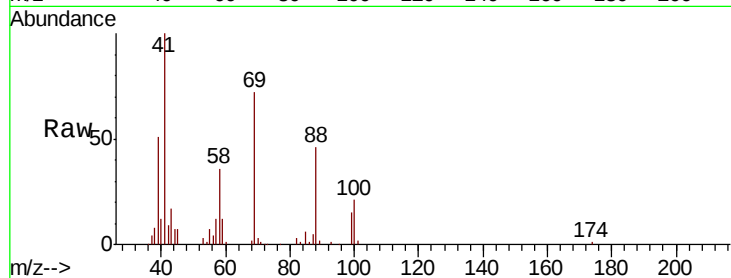
58 81.4 67.1 100.7

Manual Integrations

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#50

Toluene-d8

Concen: 51.509 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU028038.D

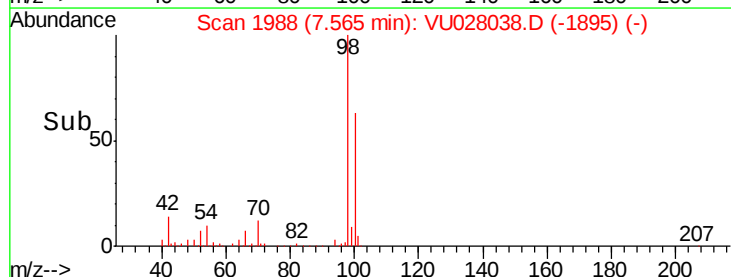
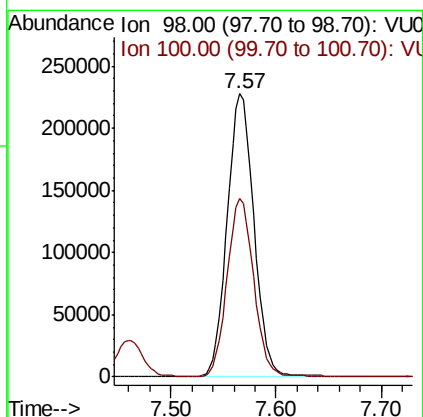
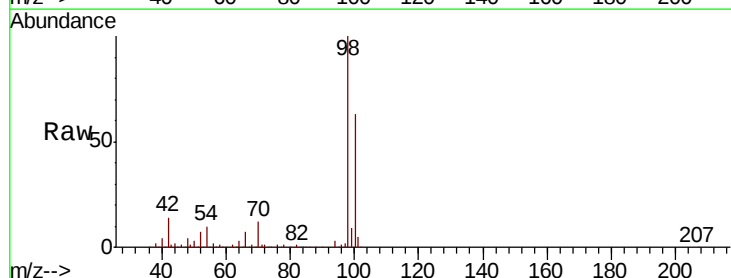
Acq: 09 Nov 2018 12:41

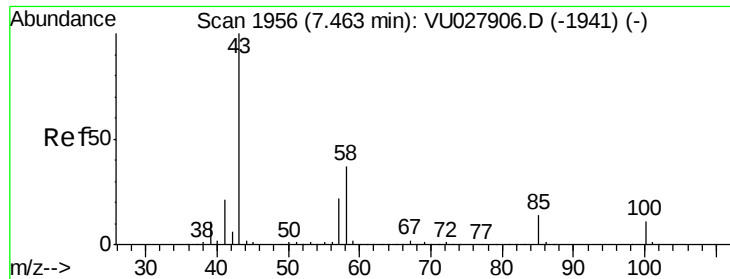
Tgt Ion: 98 Resp: 401131

Ion Ratio Lower Upper

98 100

100 62.3 50.1 75.1





#51

4-Methyl-2-Pentanone

Concen: 92.023 ug/l

RT: 7.46 min Scan# 1955

Delta R.T. -0.00 min

Lab File: VU028038.D

Acq: 09 Nov 2018 12:41

Instrument :

MSVOA_U

ClientSampleId :

VU1109WBS01

Tot Ion: 43 Resp: 472426

Ion Ratio Lower Upper

43 100

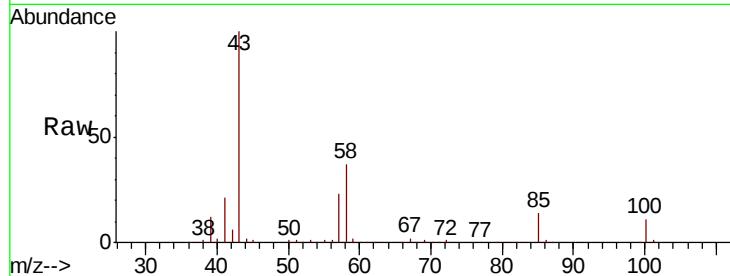
58 37.1 29.5 44.3

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-1941) (-)

Ion 58.00 (57.70 to 58.70): VU027906.D (-1941) (-)

7.46

250000

200000

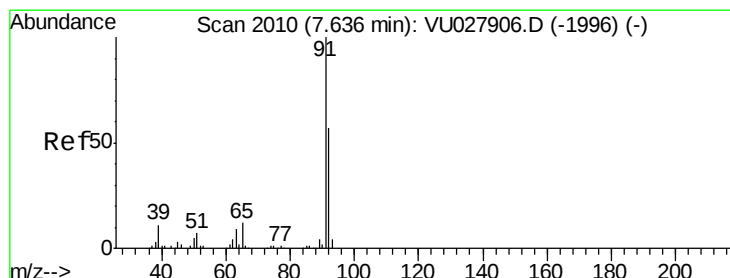
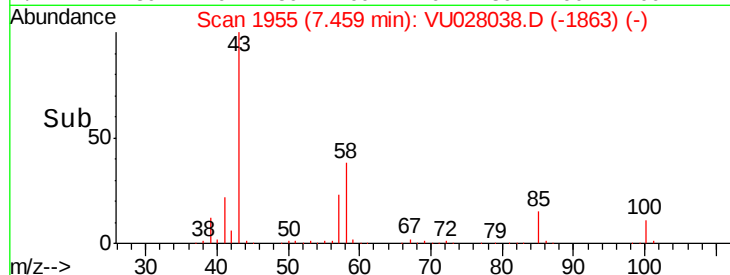
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 18.778 ug/l

RT: 7.64 min Scan# 2011

Delta R.T. 0.00 min

Lab File: VU028038.D

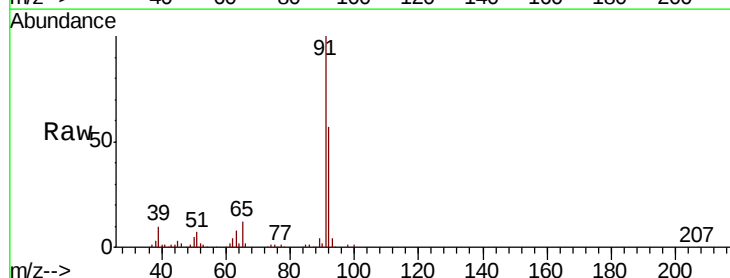
Acq: 09 Nov 2018 12:41

Tgt Ion: 92 Resp: 113026

Ion Ratio Lower Upper

92 100

91 177.0 141.2 211.8



Abundance Ion 92.00 (91.70 to 92.70): VU027906.D (-1996) (-)

Ion 91.00 (90.70 to 91.70): VU027906.D (-1996) (-)

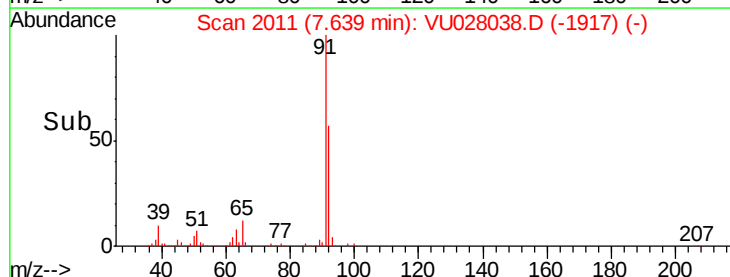
7.64

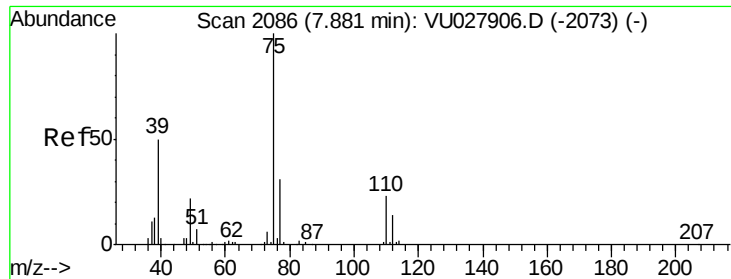
100000

50000

0

Time-->





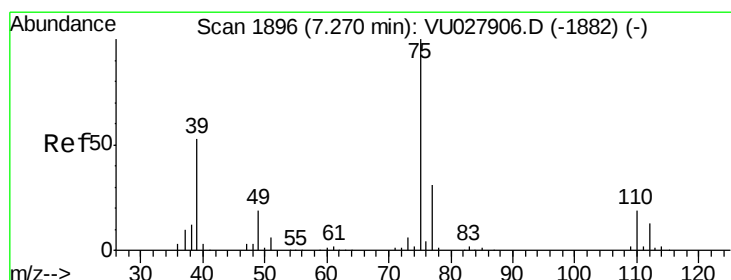
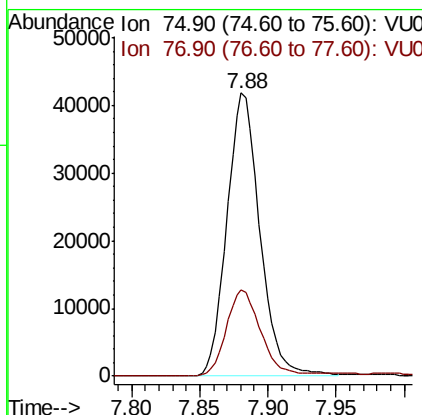
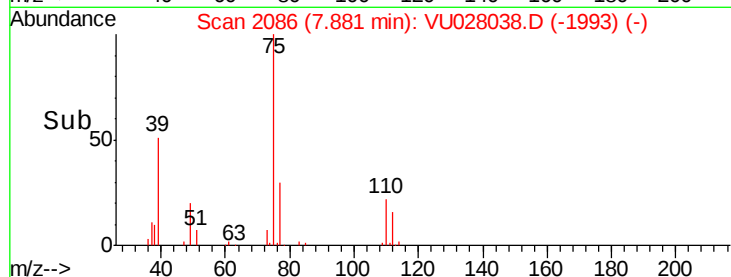
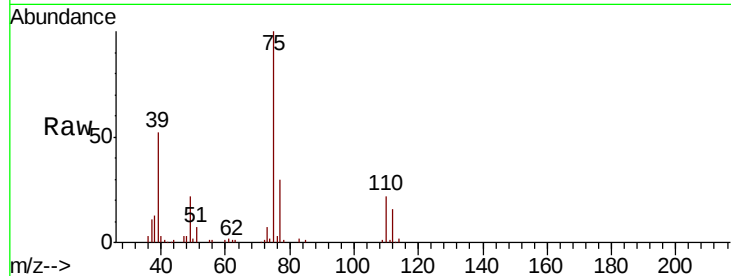
#53
t-1,3-Dichloropropene
Concen: 18.087 ug/l
RT: 7.88 min Scan# 2086
Delta R.T. 0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBS01

Tot Ion: 75 Resp: 70399
Ion Ratio Lower Upper
75 100
77 30.5 25.1 37.7

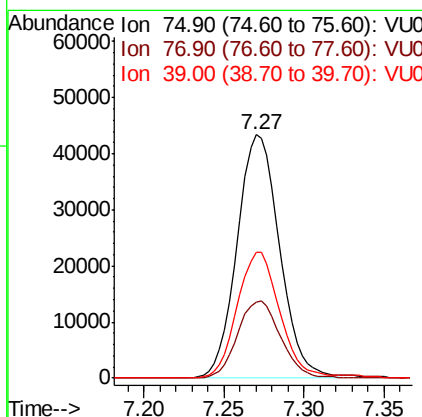
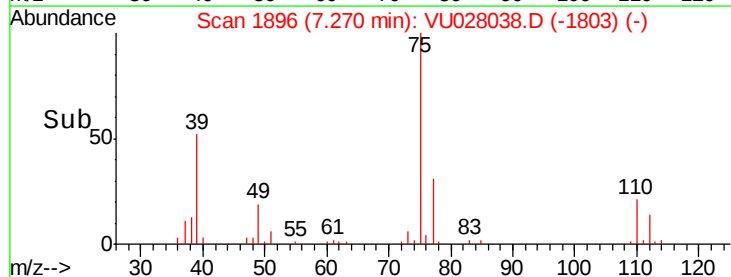
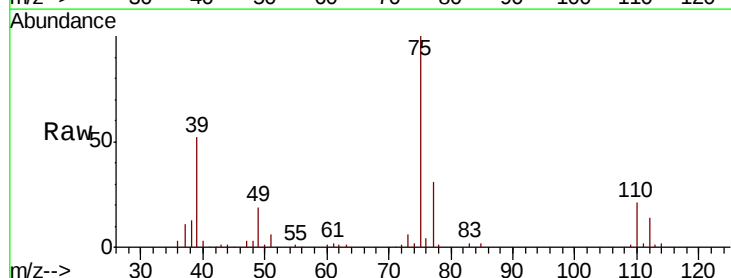
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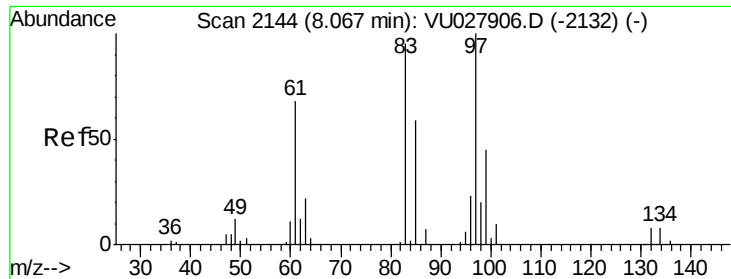
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#54
cis-1,3-Dichloropropene
Concen: 19.502 ug/l
RT: 7.27 min Scan# 1896
Delta R.T. -0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Tgt Ion: 75 Resp: 78634
Ion Ratio Lower Upper
75 100
77 31.0 24.6 37.0
39 51.8 42.6 64.0





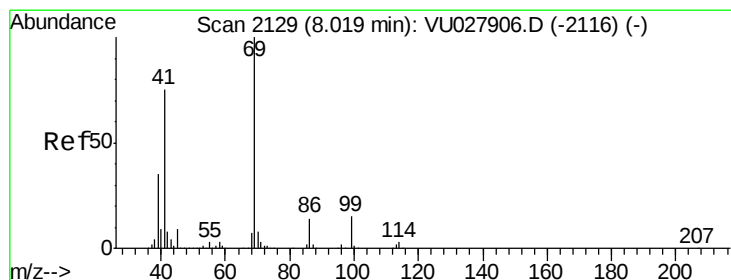
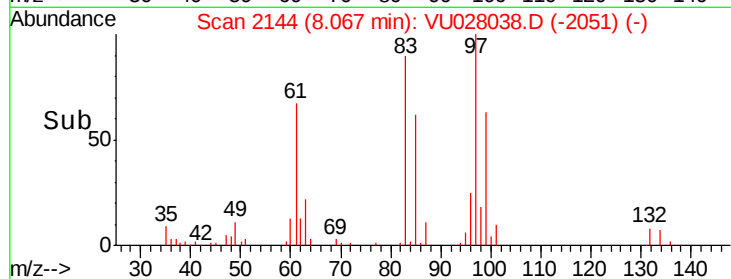
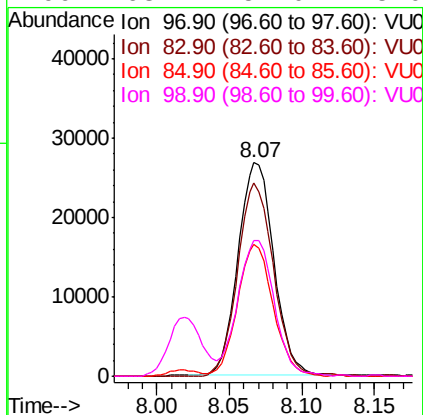
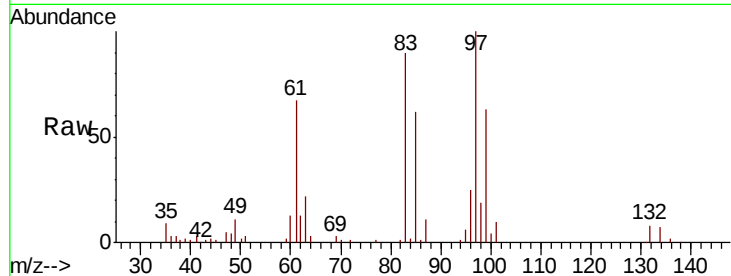
#55
 1,1,2-Trichloroethane
 Concen: 18.707 ug/l
 RT: 8.07 min Scan# 2144
 Delta R.T. -0.00 min
 Lab File: VU028038.D
 Acq: 09 Nov 2018 12:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1109WBS01

Tot Ion:	97	Resp:	45810
Ion	Ratio	Lower	Upper
97	100		
83	90.8	76.1	114.1
85	61.4	48.9	73.3
99	63.2	52.0	78.0

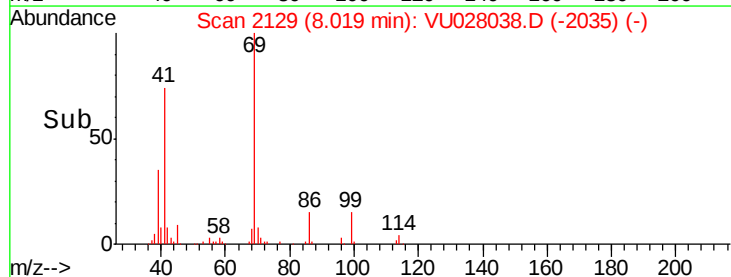
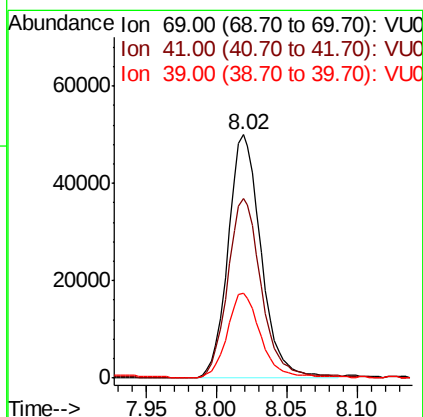
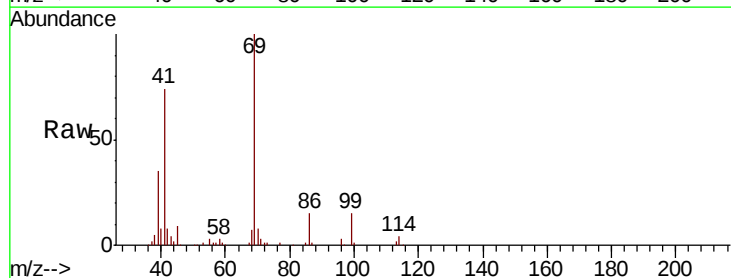
Manual Integrations
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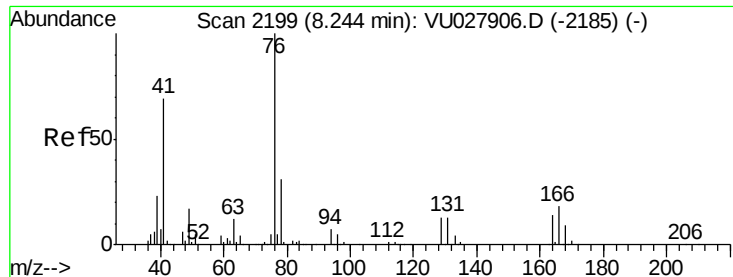
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#56
 Ethyl methacrylate
 Concen: 18.956 ug/l
 RT: 8.02 min Scan# 2129
 Delta R.T. 0.00 min
 Lab File: VU028038.D
 Acq: 09 Nov 2018 12:41

Tgt Ion:	69	Resp:	81859
Ion	Ratio	Lower	Upper
69	100		
41	76.4	59.8	89.6
39	35.8	28.6	42.8





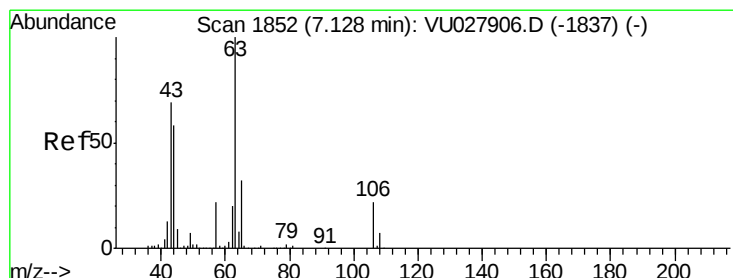
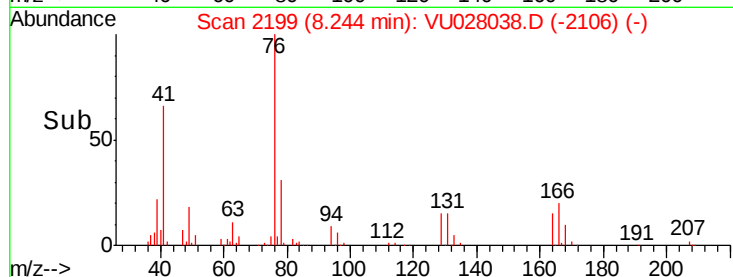
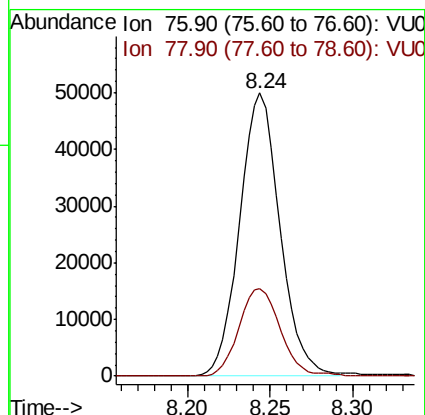
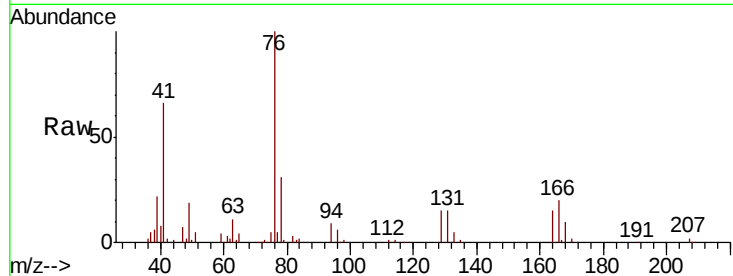
#57
 1,3-Dichloropropane
 Concen: 18.978 ug/l
 RT: 8.24 min Scan# 2199
 Delta R.T. -0.00 min
 Lab File: VU028038.D
 Acq: 09 Nov 2018 12:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1109WBS01

Tot Ion: 76 Resp: 84657
 Ion Ratio Lower Upper
 76 100
 78 31.9 25.3 37.9

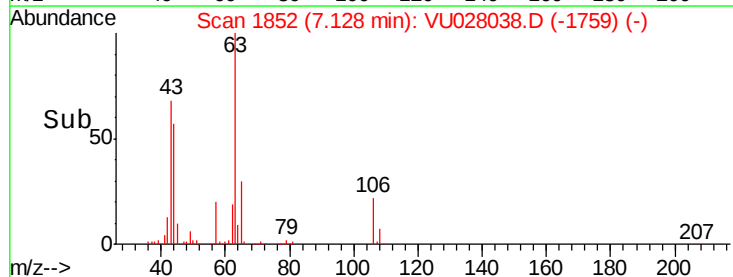
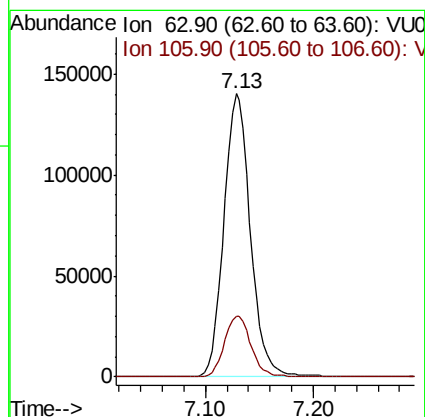
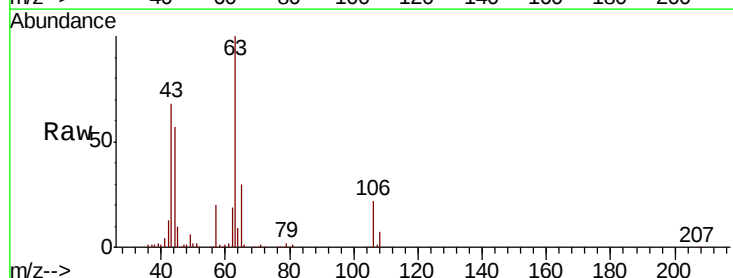
Manual Integrations
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 11/12/2018 12:01:51 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 103.747 ug/l
 RT: 7.13 min Scan# 1852
 Delta R.T. -0.00 min
 Lab File: VU028038.D
 Acq: 09 Nov 2018 12:41

Tgt Ion: 63 Resp: 239952
 Ion Ratio Lower Upper
 63 100
 106 21.6 17.8 26.6





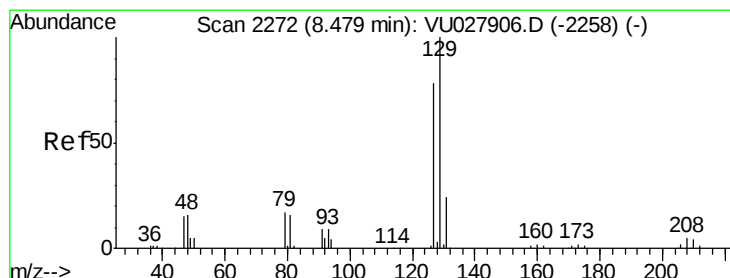
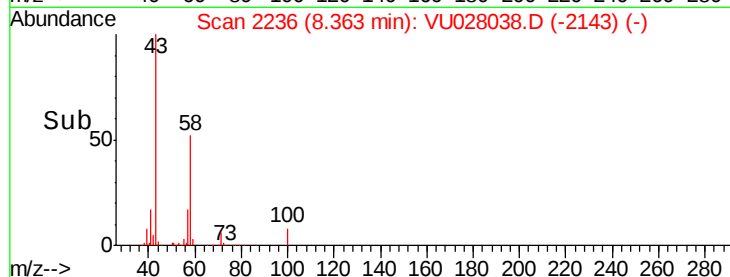
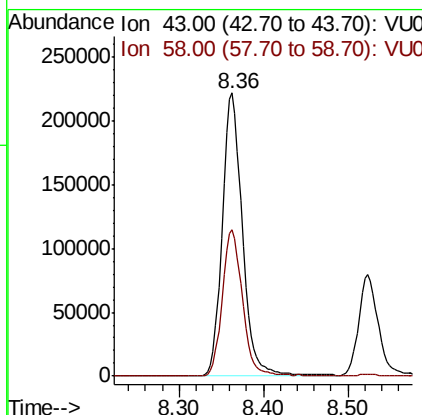
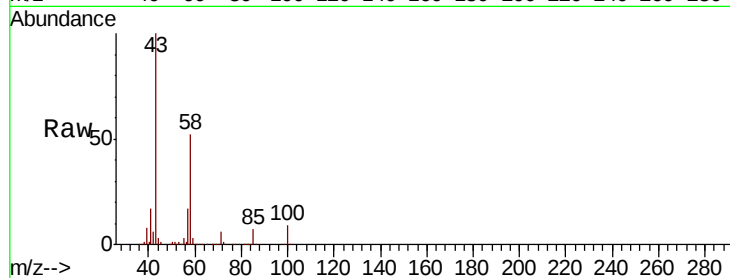
#59
2-Hexanone
Concen: 93.269 ug/l
RT: 8.36 min Scan# 2236
Delta R.T. -0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBS01

Tot Ion	43	Resp	370338
Ion Ratio	Lower	Upper	
43	100		
58	51.3	25.8	77.3

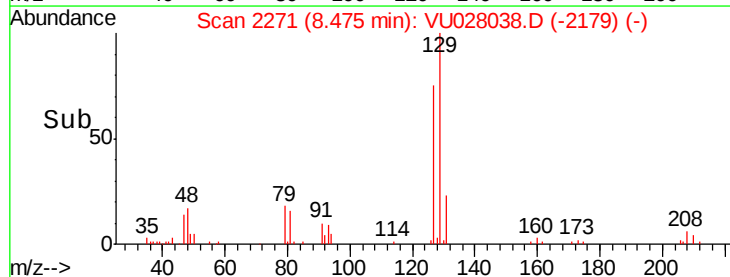
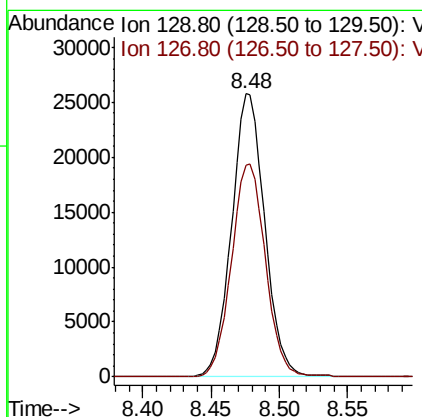
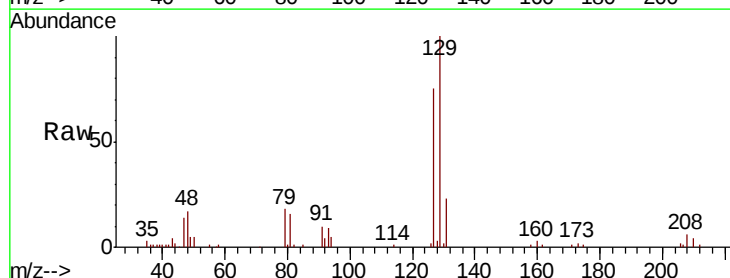
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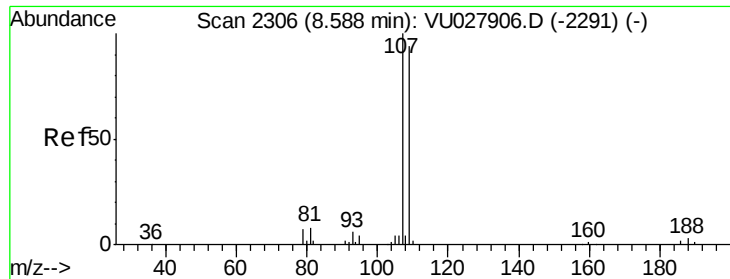
MMDadoda
11/12/2018 12:01:51 PM



#60
Dibromochloromethane
Concen: 18.771 ug/l
RT: 8.48 min Scan# 2271
Delta R.T. -0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Tgt Ion	129	Resp	43497
Ion Ratio	Lower	Upper	
129	100		
127	77.2	39.2	117.6





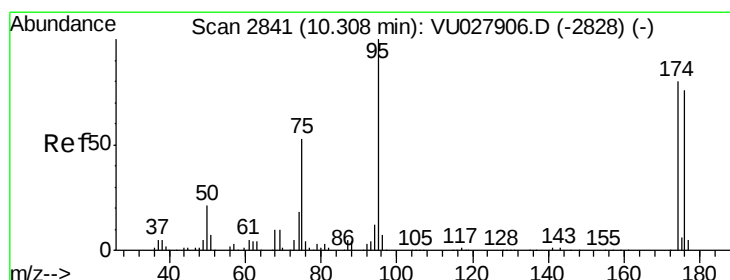
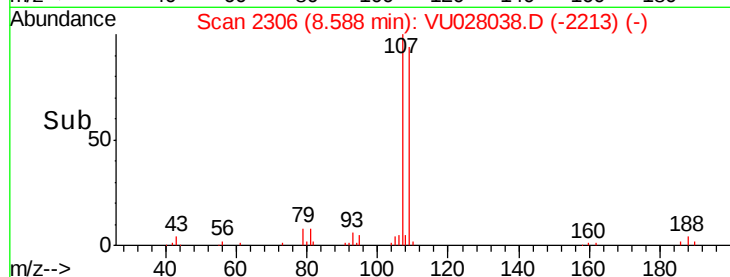
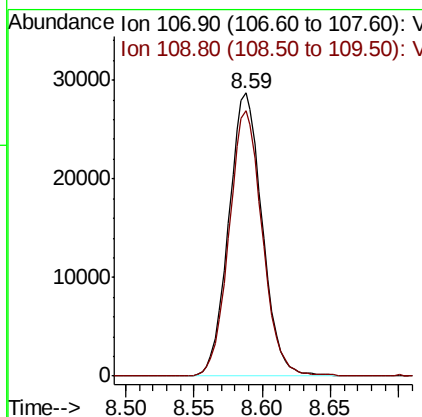
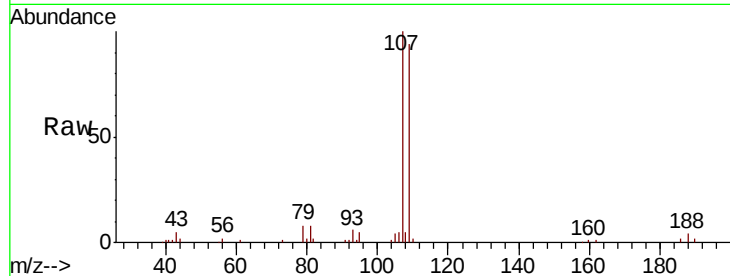
#61
 1,2-Dibromoethane
 Concen: 18.799 ug/l
 RT: 8.59 min Scan# 2306
 Delta R.T. -0.00 min
 Lab File: VU028038.D
 Acq: 09 Nov 2018 12:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1109WBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.3	73.8	110.8

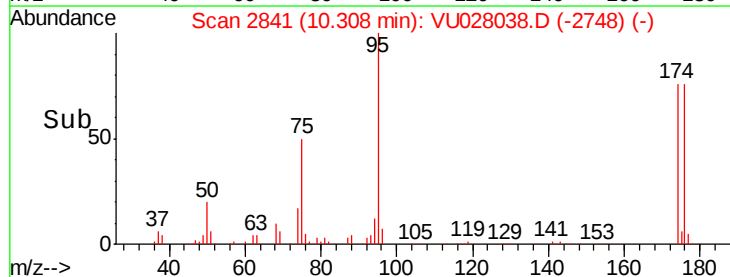
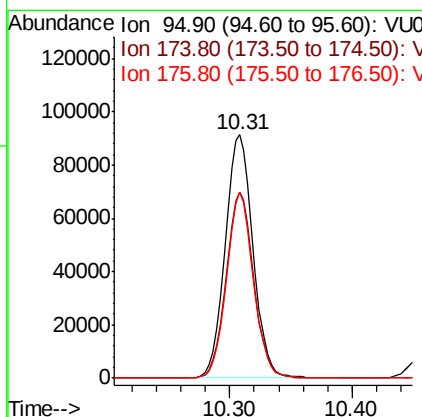
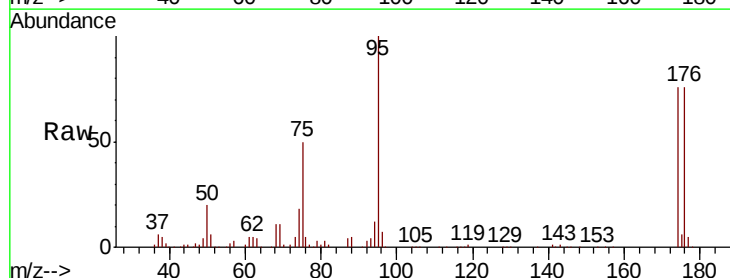
Manual Integrations
 APPROVED

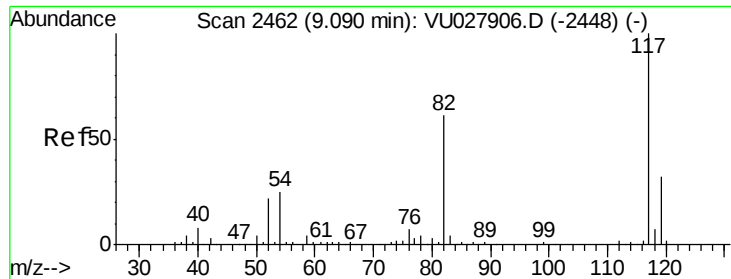
MMDadoda
 11/12/2018 12:01:51 PM



#62
 4-Bromofluorobenzene
 Concen: 50.750 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. -0.00 min
 Lab File: VU028038.D
 Acq: 09 Nov 2018 12:41

Tgt Ion	Ratio	Lower	Upper
95	100		
174	75.8	0.0	156.4
176	73.4	0.0	150.8





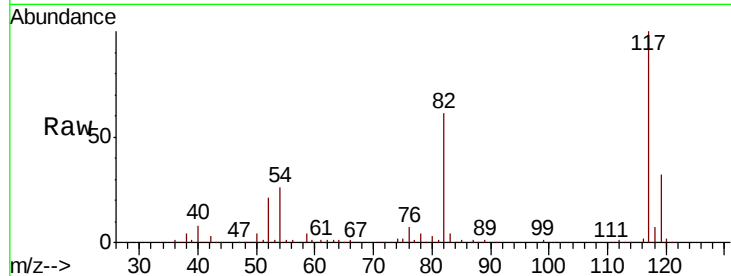
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	60.5	48.6	73.0
119	31.8	25.8	38.8

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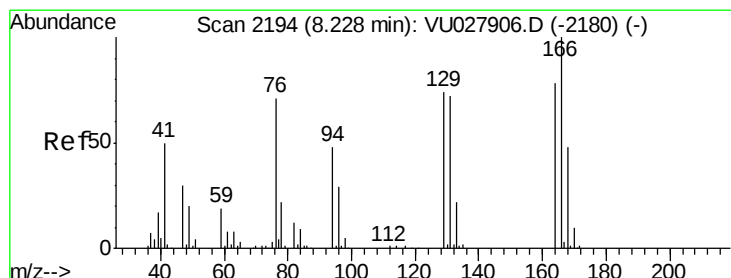
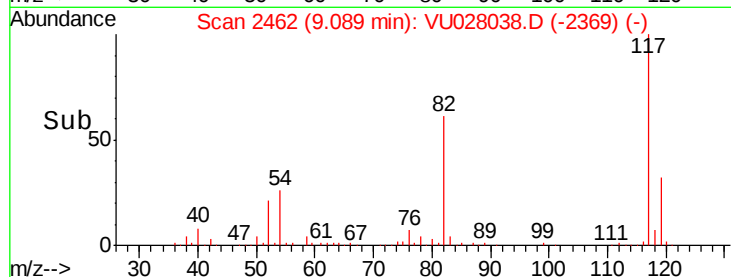
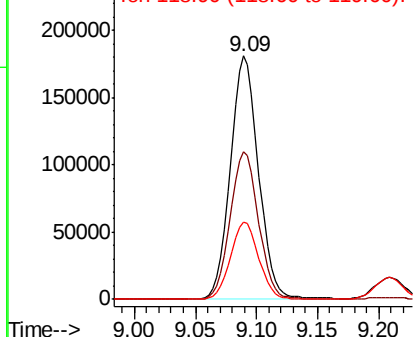


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 18.286 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. -0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Tgt Ion	Ratio	Lower	Upper
164	100		
166	133.9	102.1	153.1
129	101.5	75.9	113.9
131	94.0	73.0	109.6

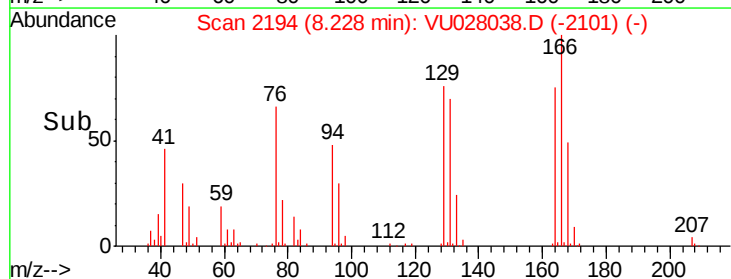
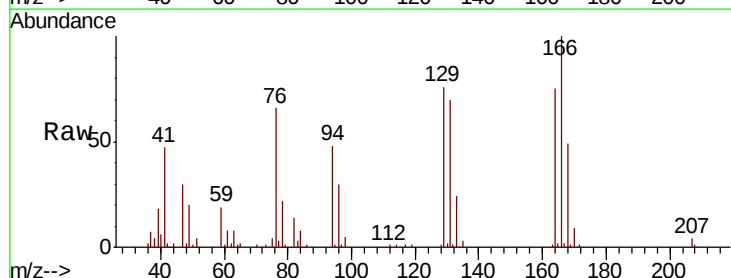
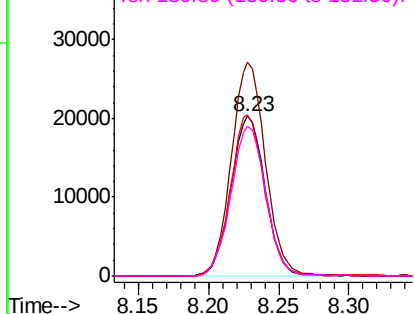
Abundance

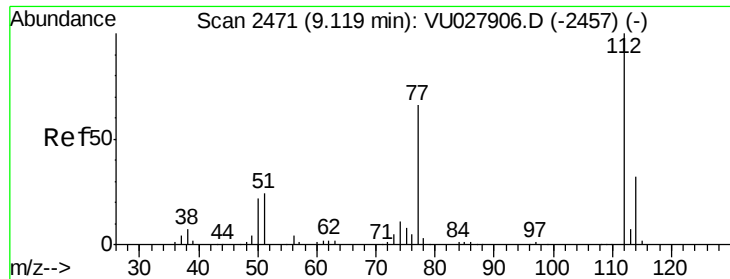
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





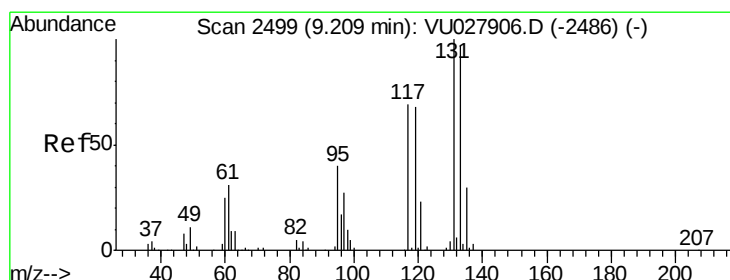
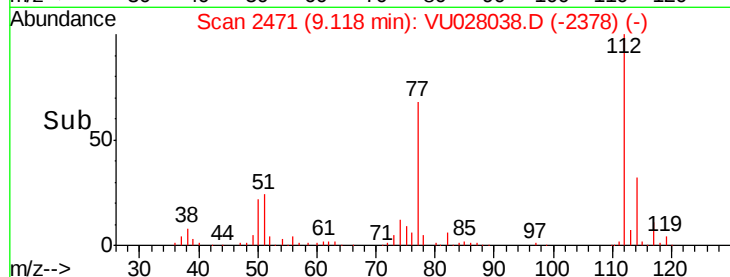
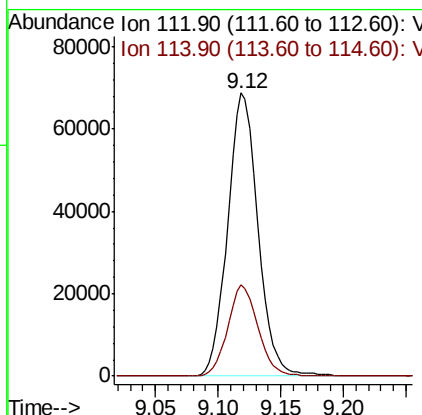
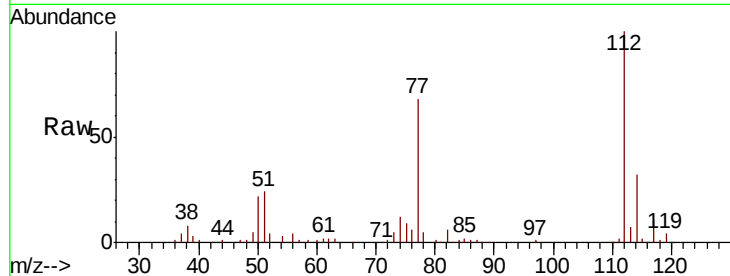
#65
Chlorobenzene
Concen: 18.767 ug/l
RT: 9.12 min Scan# 2471
Delta R.T. -0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBS01

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.1	25.2	37.8

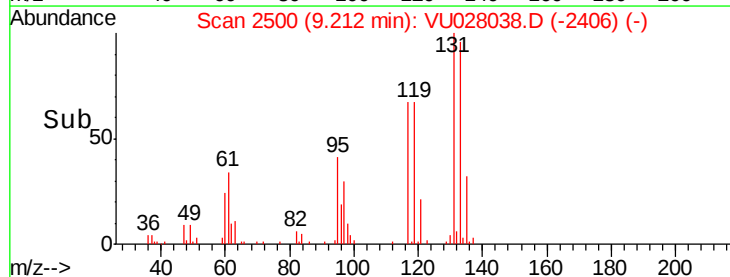
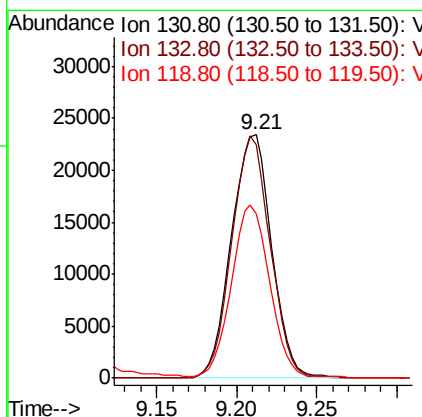
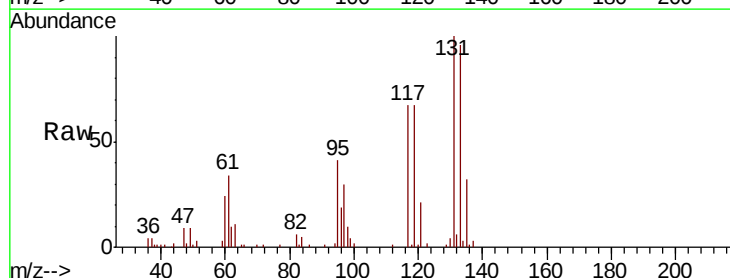
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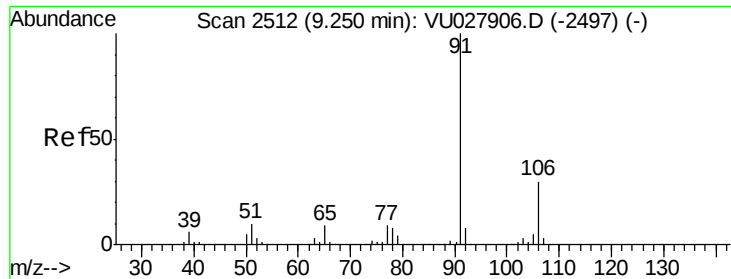
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 19.075 ug/l
RT: 9.21 min Scan# 2500
Delta R.T. 0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.1	48.1	144.4
119	68.0	34.0	101.8





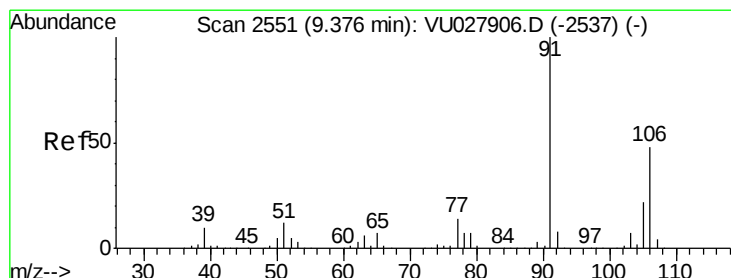
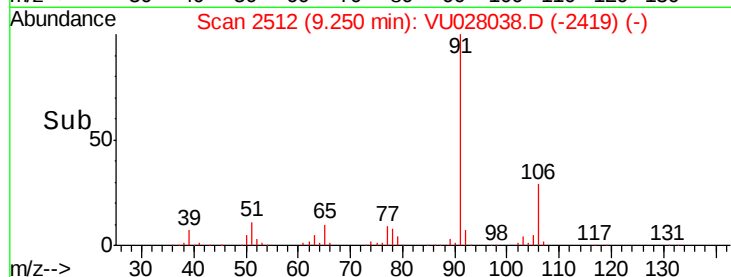
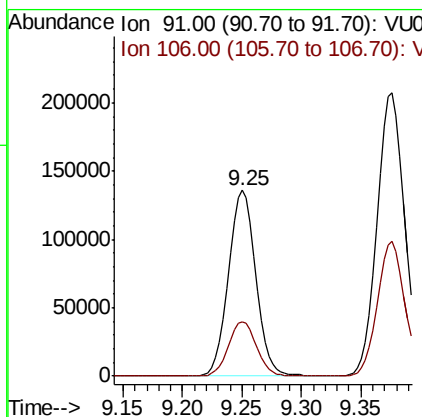
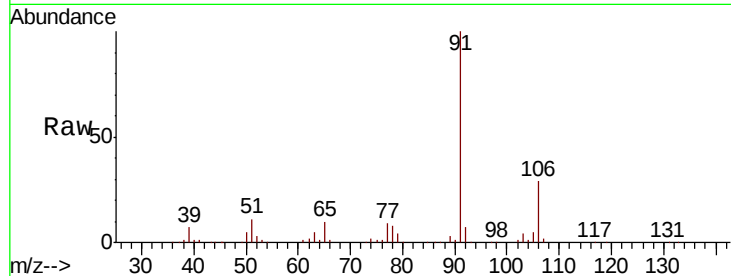
#67
Ethyl Benzene
Concen: 19.224 ug/l
RT: 9.25 min Scan# 2512
Delta R.T. -0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBS01

Tot Ion: 91 Resp: 217622
Ion Ratio Lower Upper
91 100
106 29.4 23.6 35.4

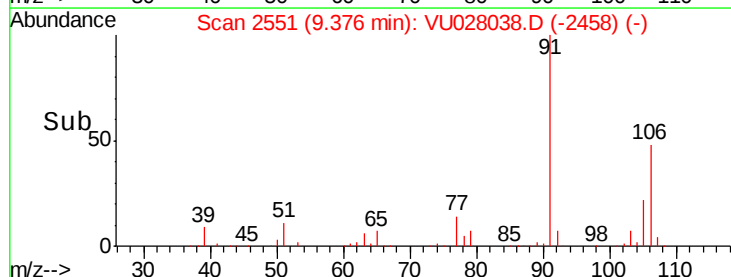
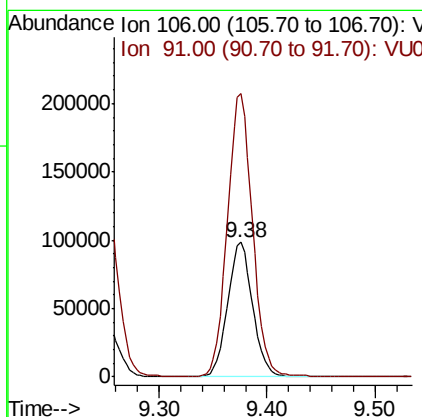
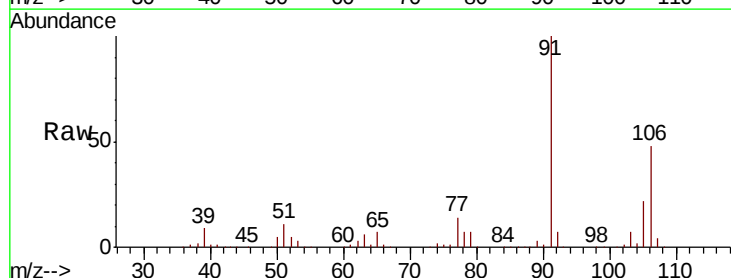
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#68
m/p-Xylenes
Concen: 38.679 ug/l
RT: 9.38 min Scan# 2551
Delta R.T. -0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Tgt Ion: 106 Resp: 158872
Ion Ratio Lower Upper
106 100
91 211.6 168.2 252.4





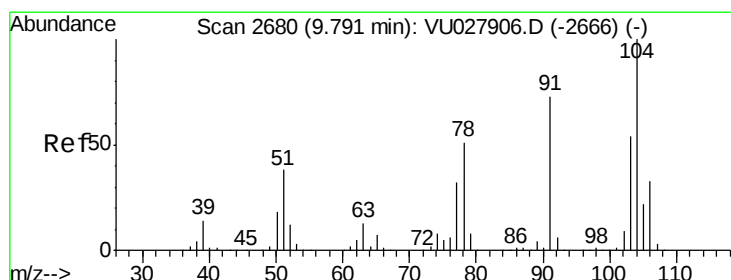
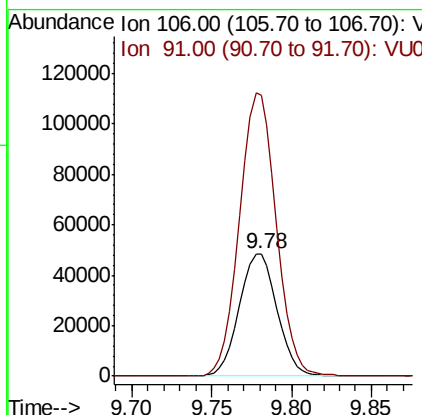
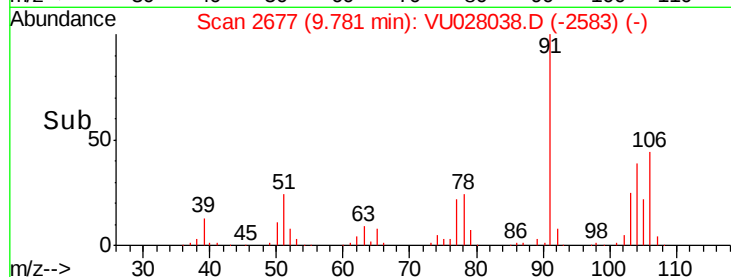
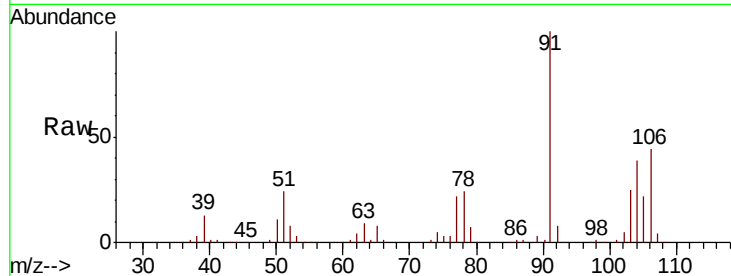
#69
o-Xylene
Concen: 18.734 ug/l
RT: 9.78 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBS01

Tot Ion:106 Resp: 77701
Ion Ratio Lower Upper
106 100
91 225.5 111.1 333.4

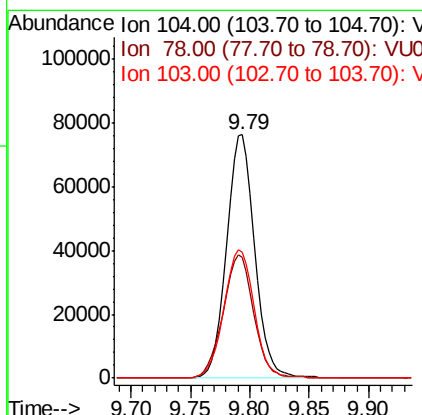
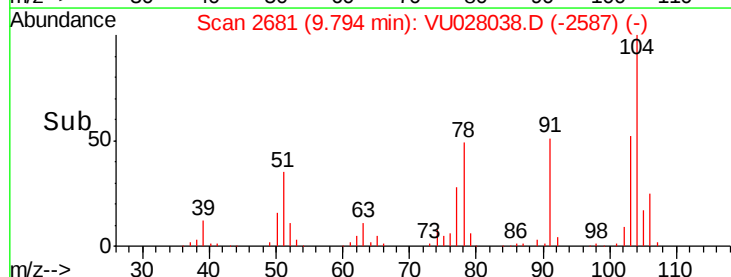
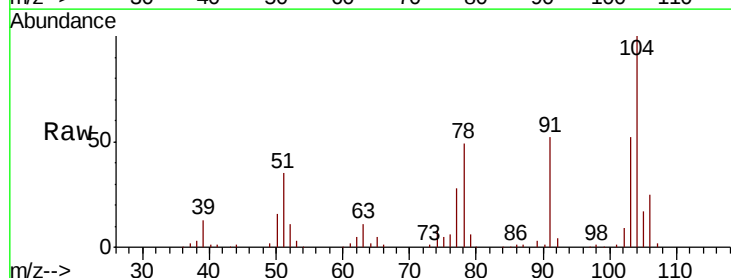
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#70
Styrene
Concen: 18.911 ug/l
RT: 9.79 min Scan# 2681
Delta R.T. 0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Tgt Ion:104 Resp: 125330
Ion Ratio Lower Upper
104 100
78 55.0 43.0 64.4
103 56.8 45.1 67.7





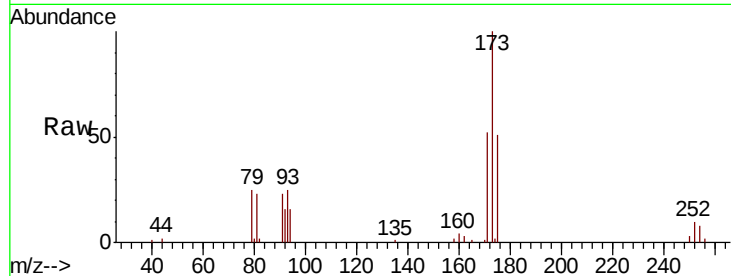
#71
Bromoform
Concen: 17.976 ug/l
RT: 9.96 min Scan# 2732
Delta R.T. -0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.5	24.3	72.8
254	0.0	0.0	0.0

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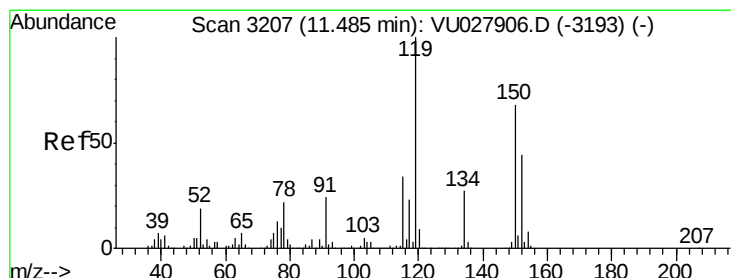
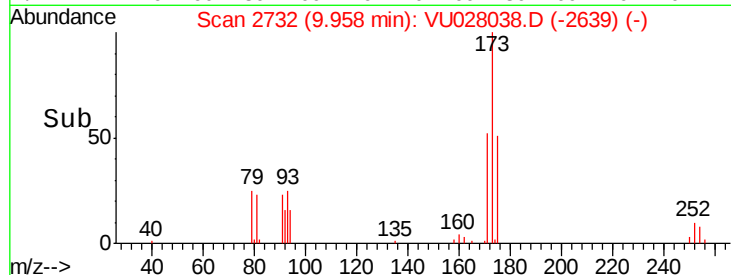
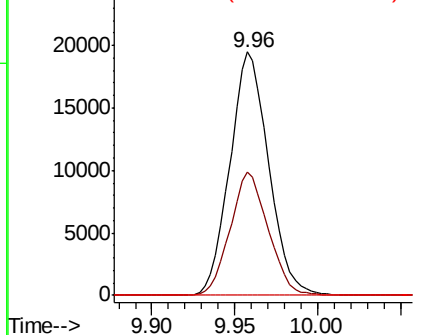


Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. -0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

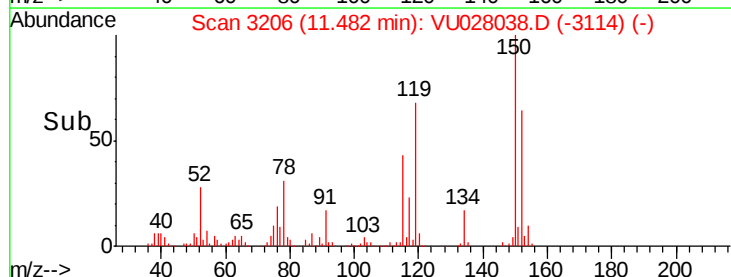
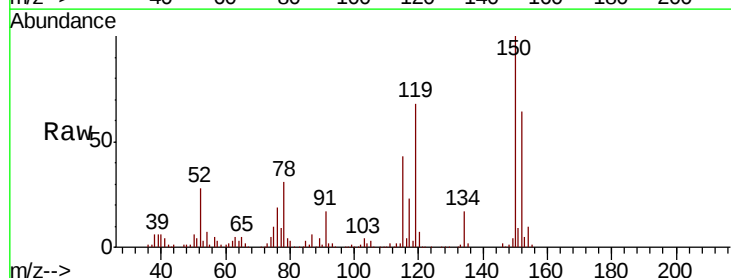
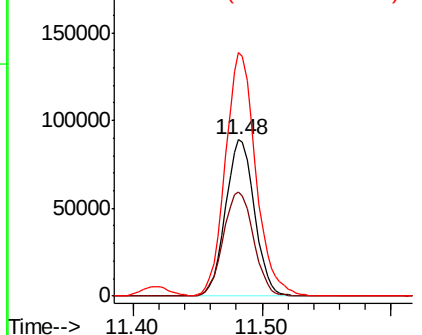
Tgt Ion	Ratio	Lower	Upper
152	100		
115	69.5	43.0	129.0
150	162.8	0.0	349.4

Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





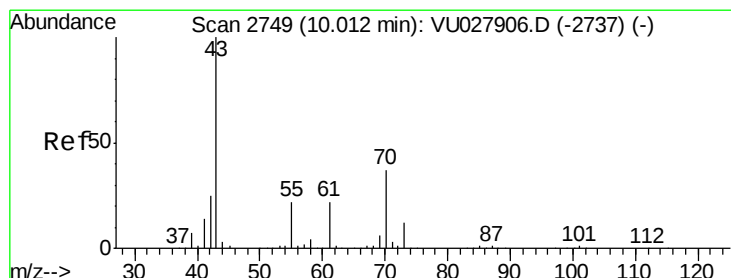
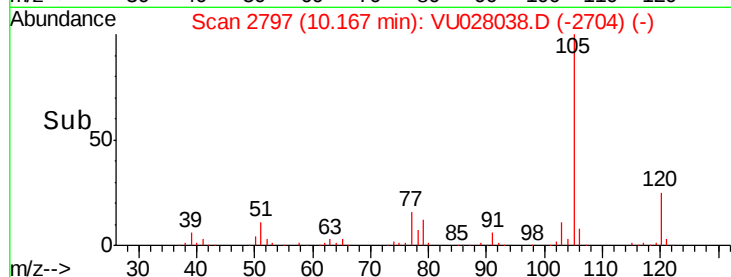
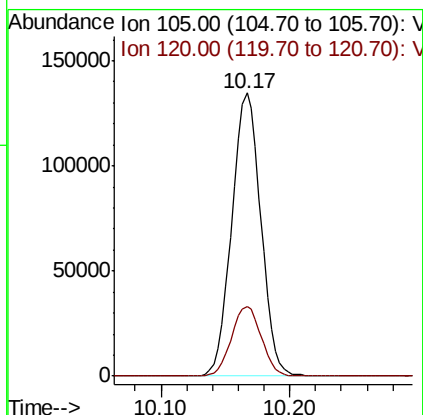
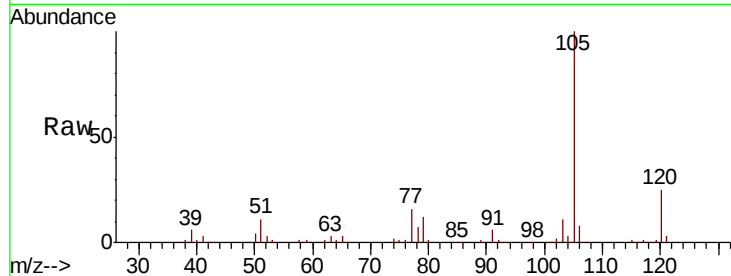
#73
Isopropylbenzene
Concen: 19.600 ug/l
RT: 10.17 min Scan# 2797
Delta R.T. -0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBS01

Tot Ion: 105 Resp: 210694
Ion Ratio Lower Upper
105 100
120 25.3 12.7 38.0

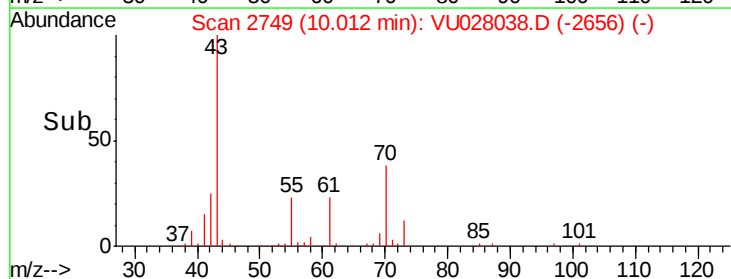
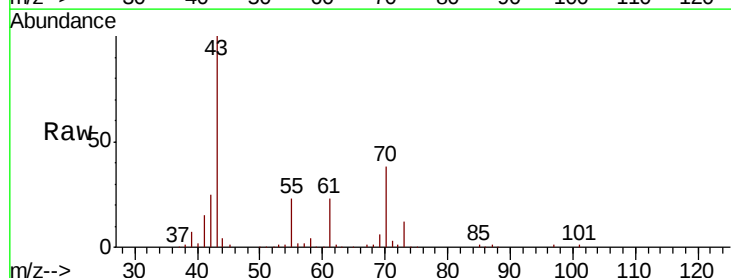
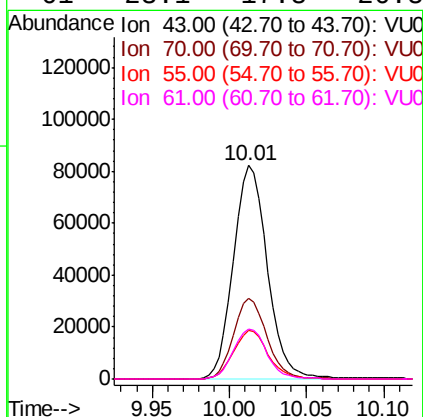
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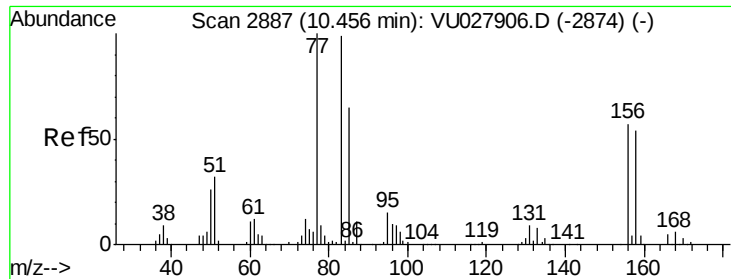
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#74
N-ethyl acetate
Concen: 19.297 ug/l
RT: 10.01 min Scan# 2749
Delta R.T. -0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Tgt Ion: 43 Resp: 125434
Ion Ratio Lower Upper
43 100
70 36.9 29.2 43.8
55 23.1 17.8 26.6
61 23.1 17.8 26.8





#75

1,1,2,2-Tetrachloroethane

Concen: 18.969 ug/l

RT: 10.46 min Scan# 2888

Delta R.T. 0.00 min

Lab File: VU028038.D

Acq: 09 Nov 2018 12:41

Instrument :

MSVOA_U

ClientSampleId :

VU1109WBS01

Tot Ion: 83 Resp: 82249

Ion Ratio Lower Upper

83 100

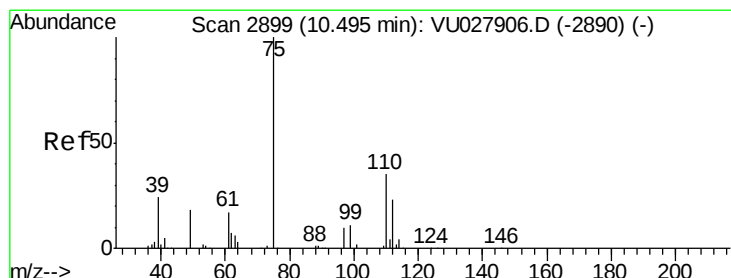
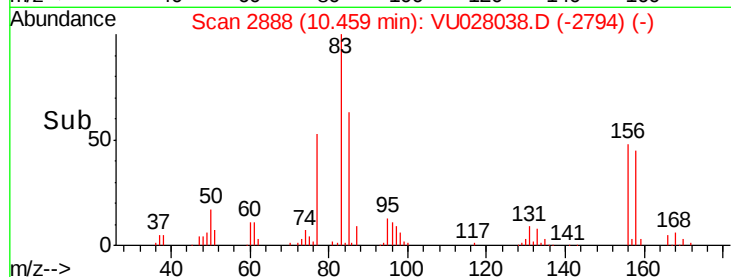
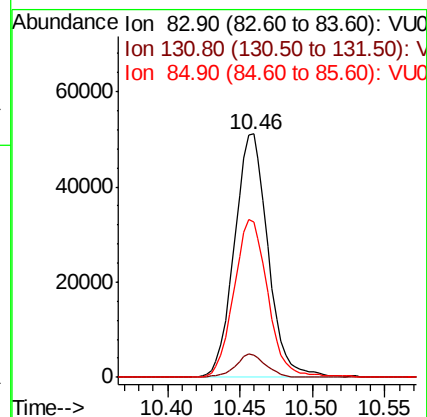
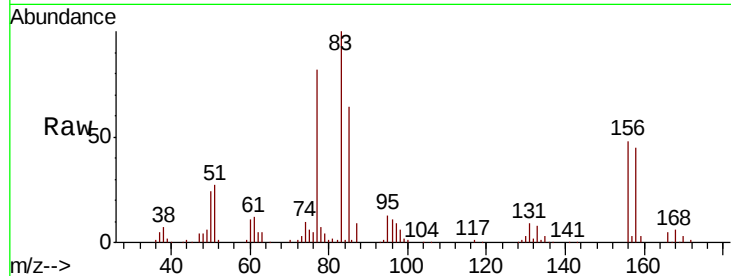
131 8.6 4.3 13.1

85 65.3 32.4 97.2

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 18.550 ug/l m

RT: 10.49 min Scan# 2899

Delta R.T. -0.00 min

Lab File: VU028038.D

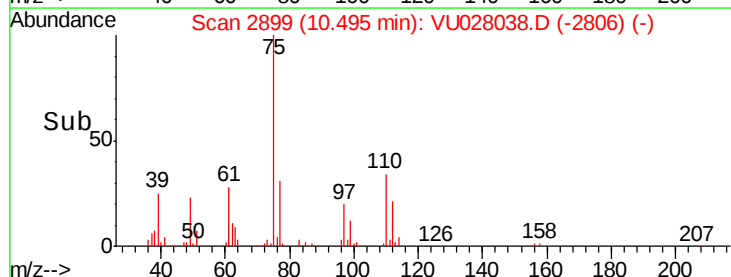
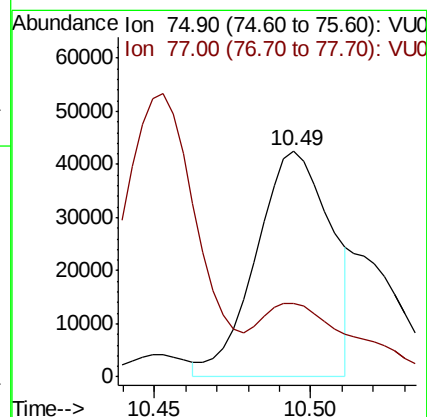
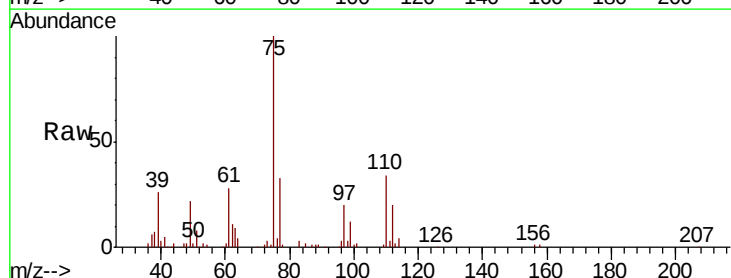
Acq: 09 Nov 2018 12:41

Tgt Ion: 75 Resp: 70405

Ion Ratio Lower Upper

75 100

77 42.6 21.6 64.6





#77

Bromobenzene

Concen: 19.716 ug/l

RT: 10.45 min Scan# 2886

Delta R.T. -0.00 min

Lab File: VU028038.D

Acq: 09 Nov 2018 12:41

Instrument :

MSVOA_U

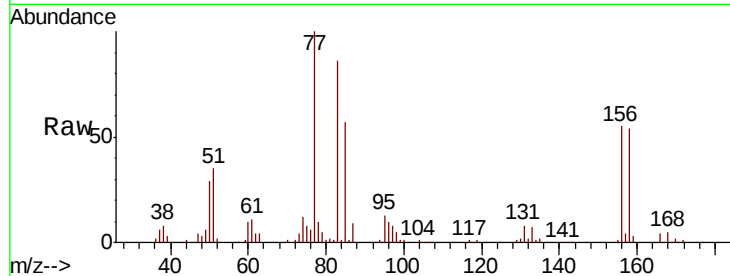
ClientSampleId :

VU1109WBS01

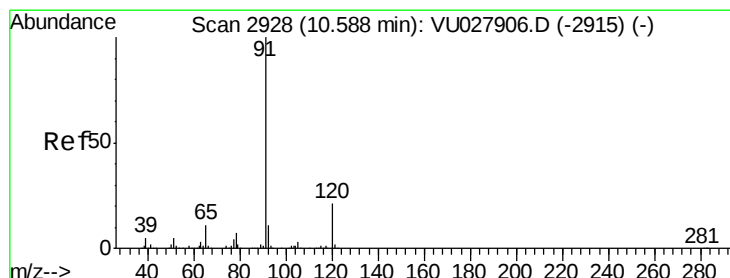
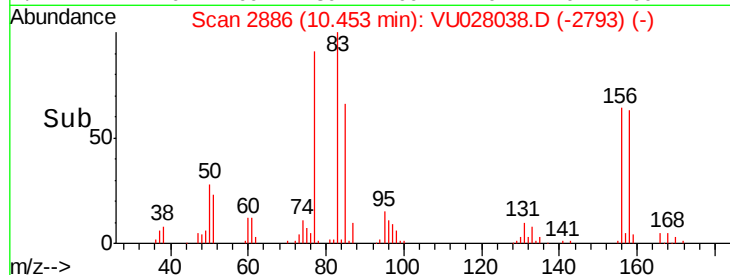
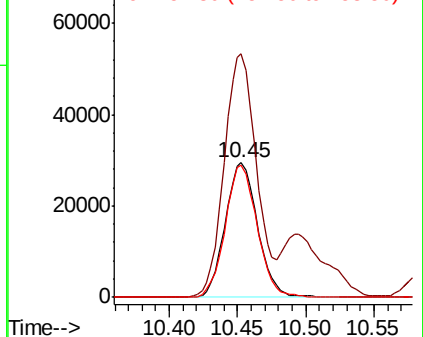
Tot Ion:	156	Resp:	48599
Ion Ratio	Lower	Upper	
156	100		
77	181.6	91.8	275.6
158	96.9	48.4	145.2

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Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): VU0
Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 19.670 ug/l

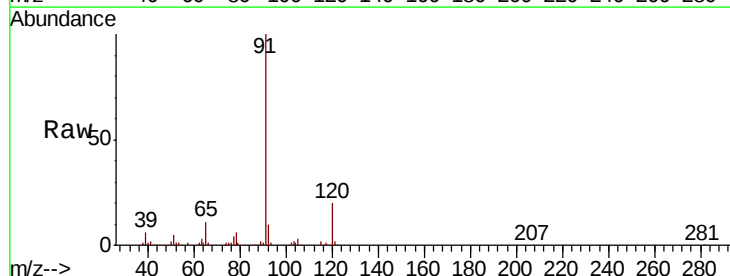
RT: 10.59 min Scan# 2928

Delta R.T. -0.00 min

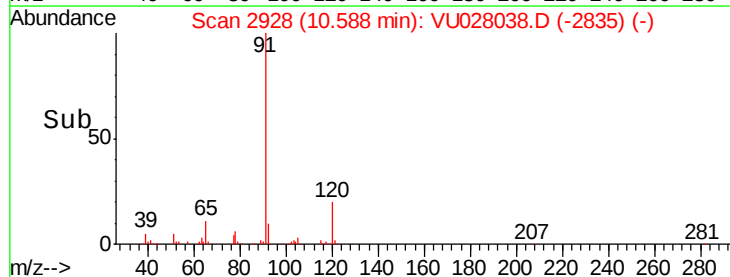
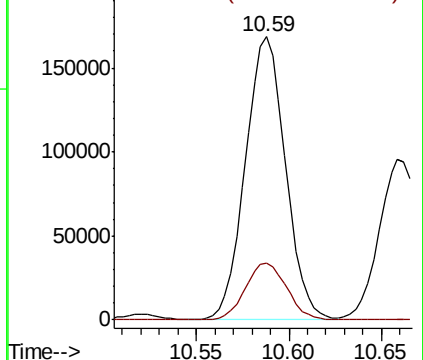
Lab File: VU028038.D

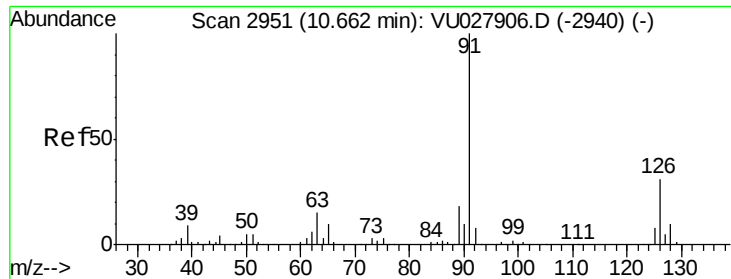
Acq: 09 Nov 2018 12:41

Tgt Ion:	91	Resp:	253100
Ion Ratio	Lower	Upper	
91	100		
120	20.7	10.6	31.8



Abundance Ion 91.00 (90.70 to 91.70): VU0
Ion 120.00 (119.70 to 120.70): V





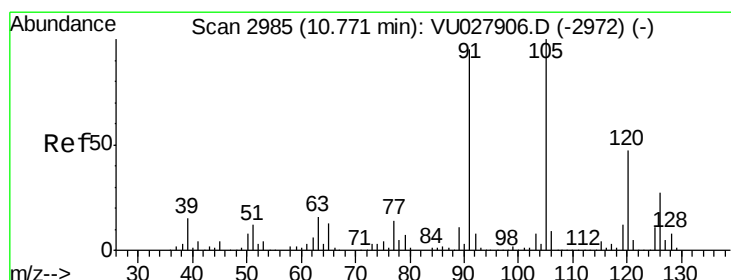
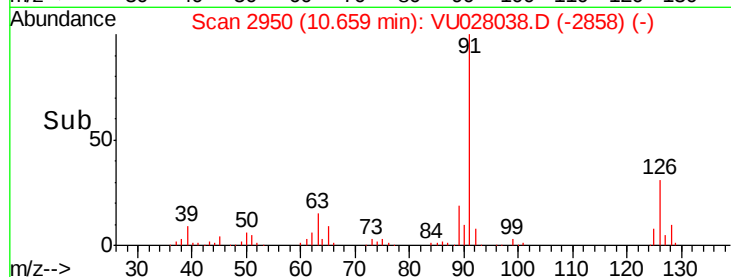
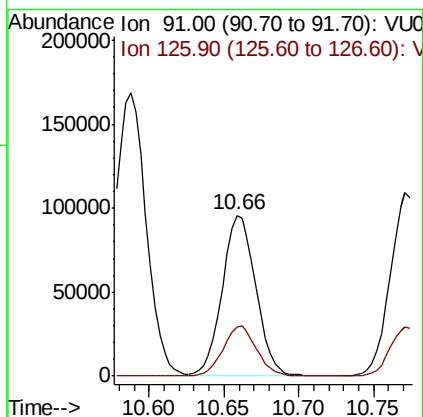
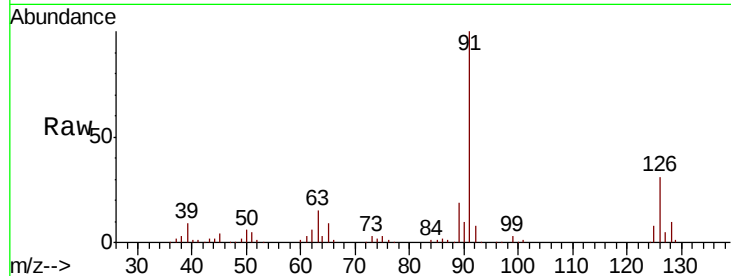
#79
2-Chlorotoluene
Concen: 19.459 ug/l
RT: 10.66 min Scan# 2950
Delta R.T. -0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBS01

Tot Ion: 91 Resp: 150079
Ion Ratio Lower Upper
91 100
126 31.1 16.0 47.9

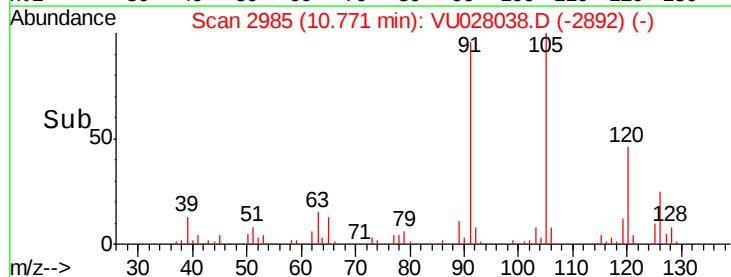
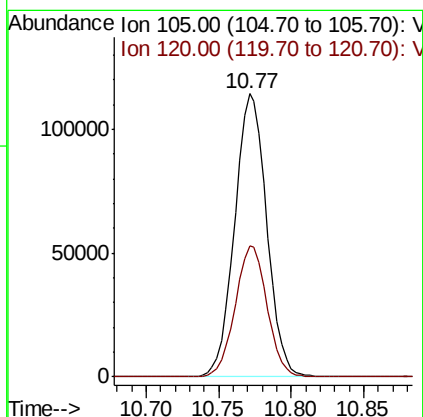
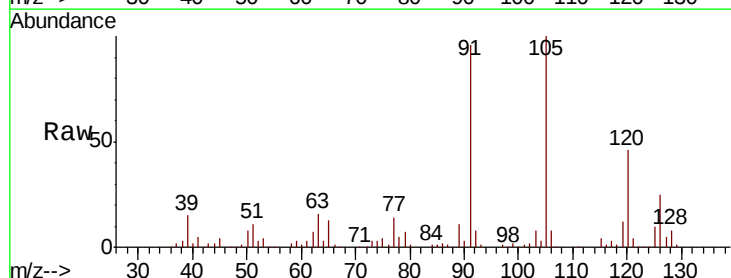
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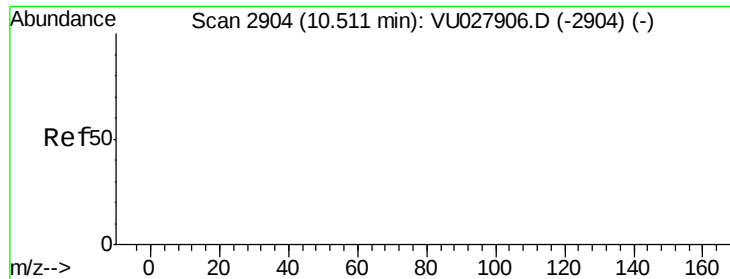
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#80
1,3,5-Trimethylbenzene
Concen: 19.629 ug/l
RT: 10.77 min Scan# 2985
Delta R.T. -0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Tgt Ion: 105 Resp: 174795
Ion Ratio Lower Upper
105 100
120 46.1 23.3 69.9





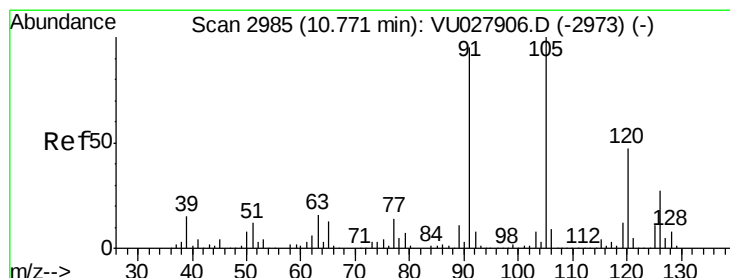
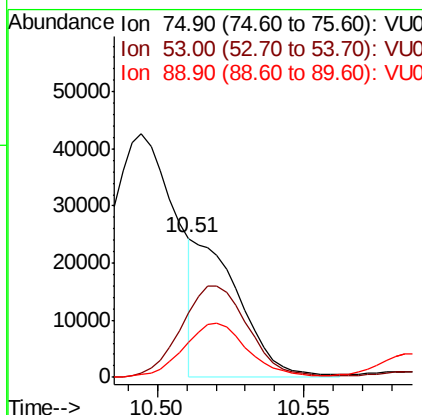
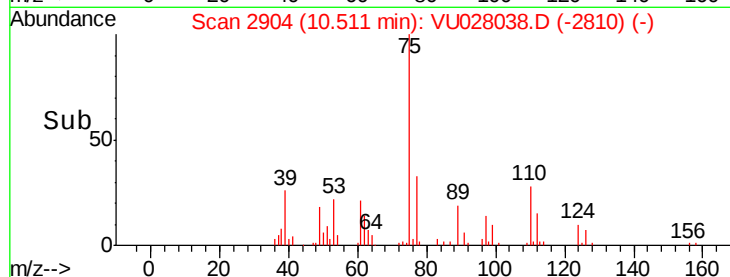
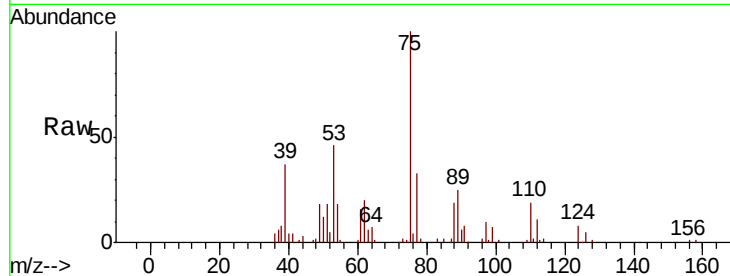
#81
trans-1,4-Dichloro-2-butene
Concen: 17.491 ug/l m
RT: 10.51 min Scan# 2904
Delta R.T. 0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	0.0	0.0
89	0.0	0.0	0.0

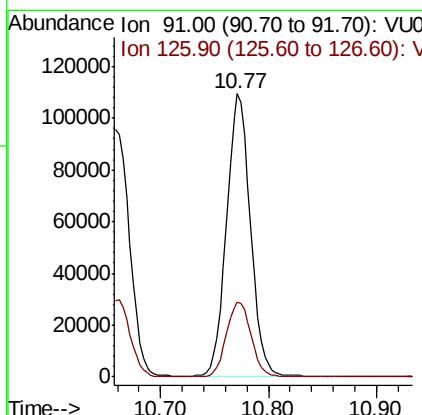
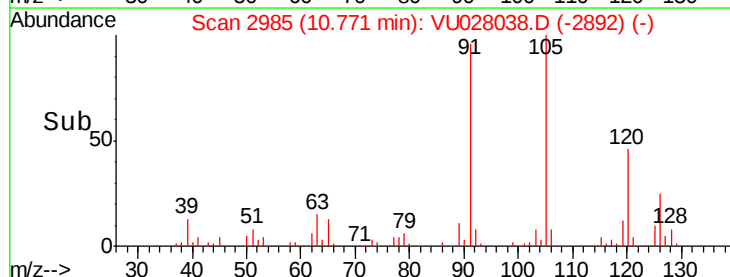
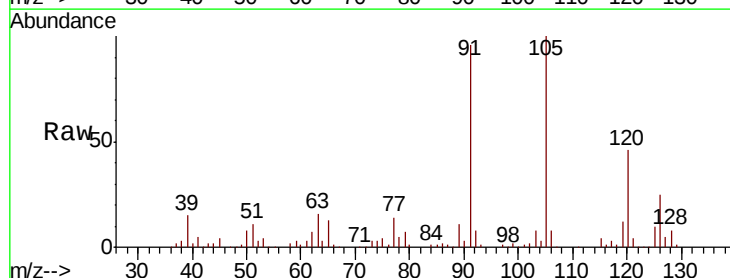
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#82
4-Chlorotoluene
Concen: 19.270 ug/l
RT: 10.77 min Scan# 2985
Delta R.T. -0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Tgt Ion	Ratio	Lower	Upper
91	100		
126	27.5	14.2	42.6





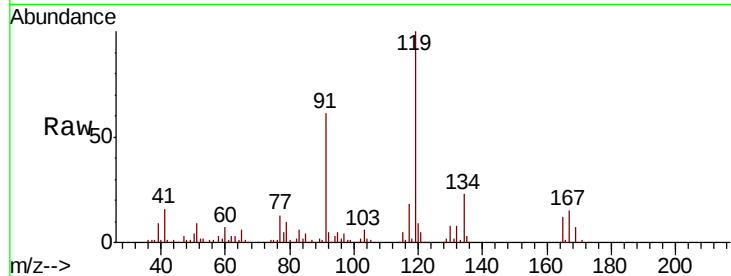
#83
tert-Butylbenzene
Concen: 18.966 ug/l
RT: 11.10 min Scan# 3087
Delta R.T. -0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	168837		
91	60.7	29.8	89.3	
134	22.3	11.1	33.1	

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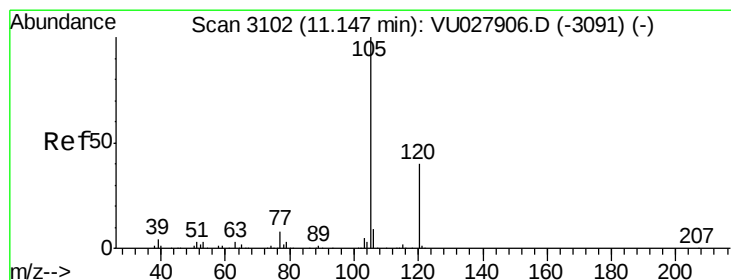
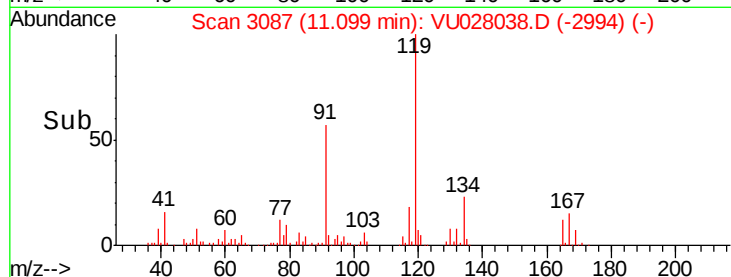
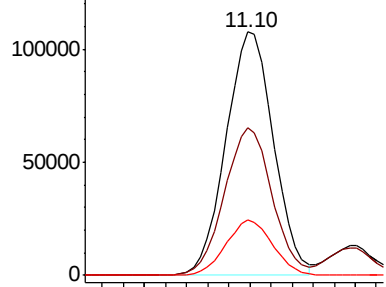


Abundance

Ion 119.00 (118.70 to 119.70): V

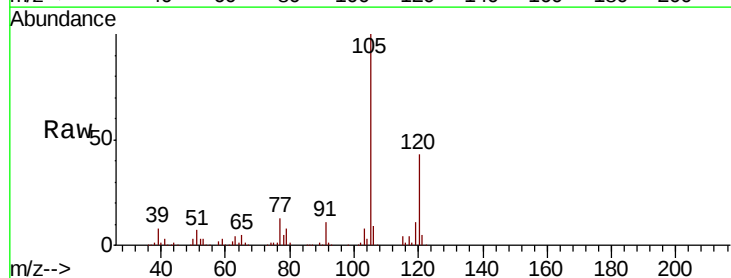
Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84
1,2,4-Trimethylbenzene
Concen: 19.496 ug/l
RT: 11.15 min Scan# 3102
Delta R.T. -0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

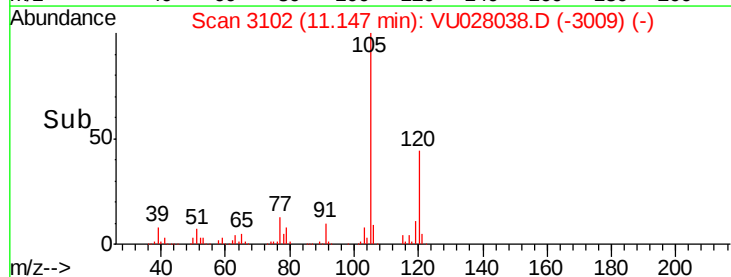
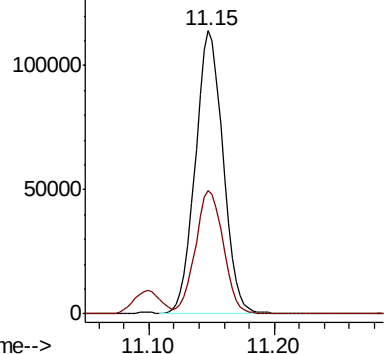
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	174817		
120	43.6	22.1	66.1	

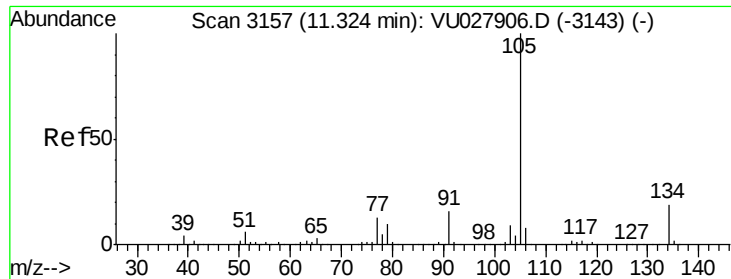


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 19.579 ug/l

RT: 11.32 min Scan# 3157

Delta R.T. -0.00 min

Lab File: VU028038.D

Acq: 09 Nov 2018 12:41

Instrument :

MSVOA_U

ClientSampleId :

VU1109WBS01

Tot Ion:105 Resp: 211971

Ion Ratio Lower Upper

105 100

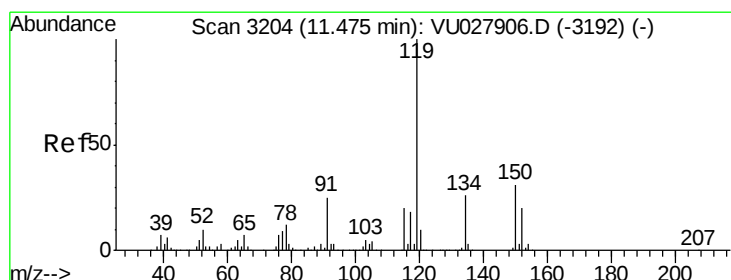
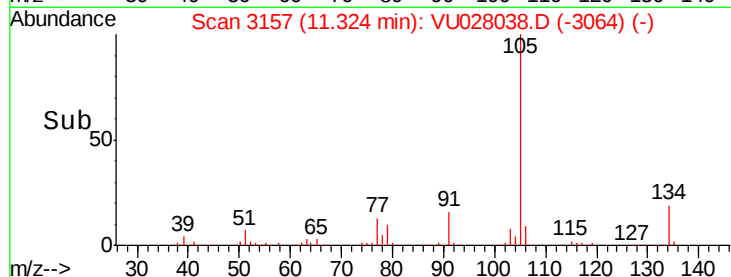
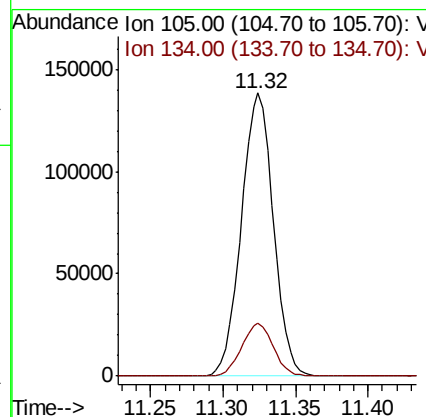
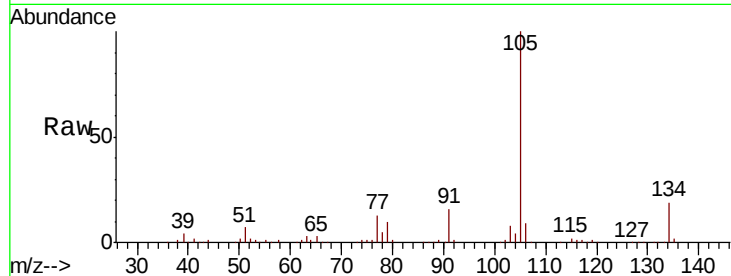
134 18.5 9.2 27.6

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#86

p-Isopropyltoluene

Concen: 19.180 ug/l

RT: 11.48 min Scan# 3204

Delta R.T. -0.00 min

Lab File: VU028038.D

Acq: 09 Nov 2018 12:41

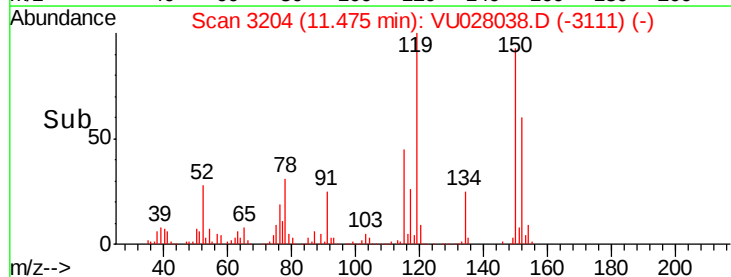
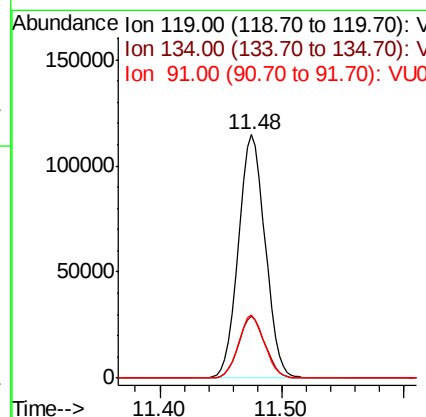
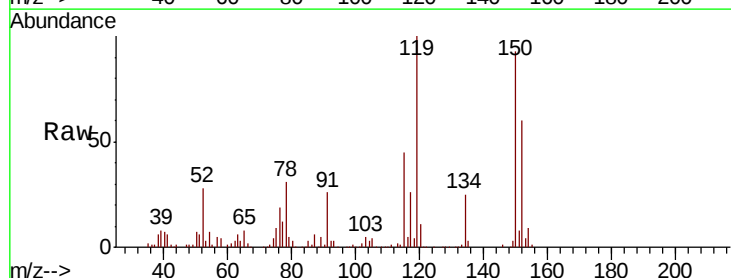
Tgt Ion:119 Resp: 173595

Ion Ratio Lower Upper

119 100

134 25.2 12.9 38.7

91 25.1 12.4 37.2





#87

1,3-Dichlorobenzene

Concen: 18.575 ug/l

RT: 11.42 min Scan# 3186

Delta R.T. -0.00 min

Lab File: VU028038.D

Acq: 09 Nov 2018 12:41

Instrument :

MSVOA_U

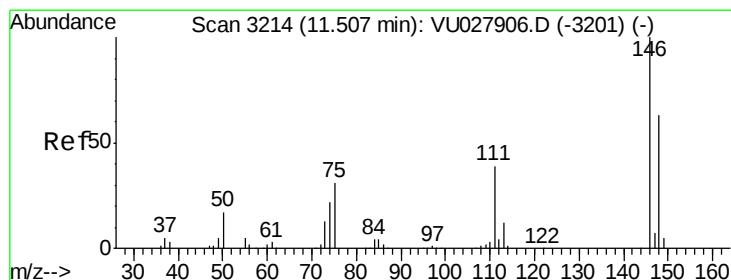
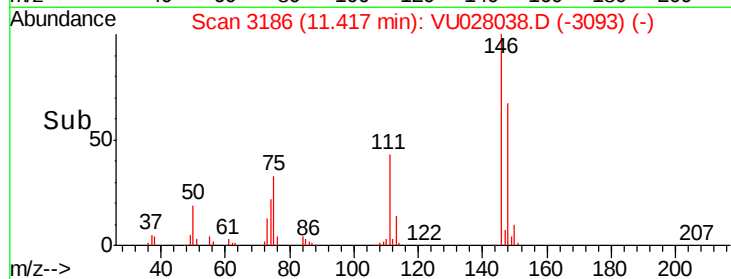
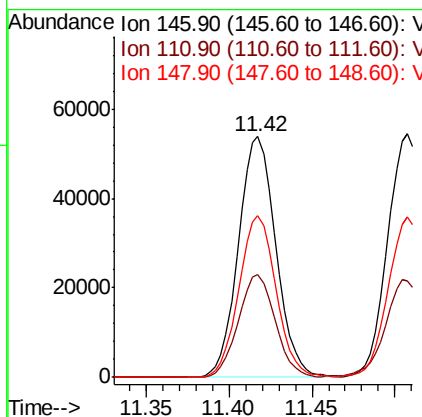
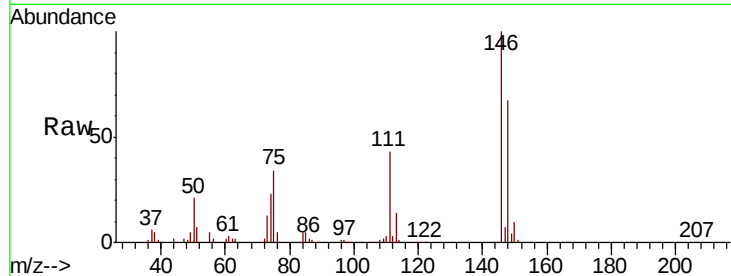
ClientSampleId :

VU1109WBS01

Tot Ion:	146	Resp:	84580
Ion Ratio	Lower	Upper	
146	100		
111	42.0	20.3	61.0
148	66.7	31.8	95.4

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#88

1,4-Dichlorobenzene

Concen: 18.850 ug/l

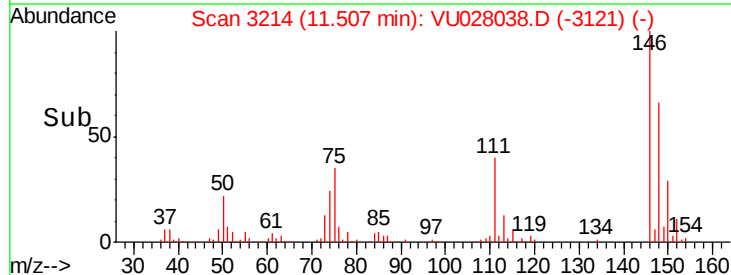
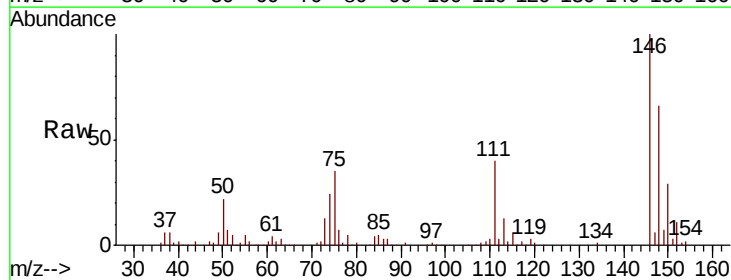
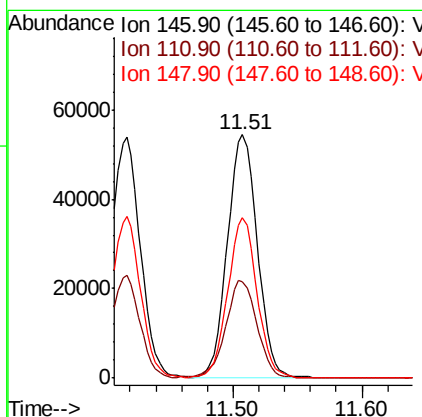
RT: 11.51 min Scan# 3214

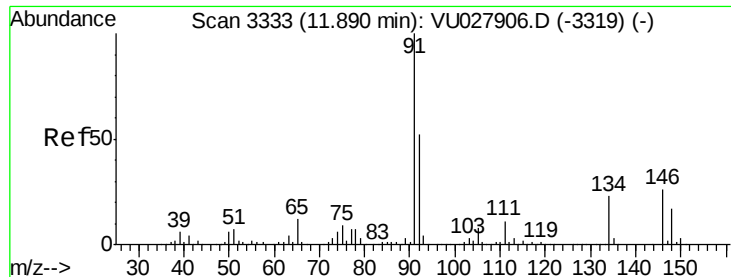
Delta R.T. -0.00 min

Lab File: VU028038.D

Acq: 09 Nov 2018 12:41

Tgt Ion:	146	Resp:	87975
Ion Ratio	Lower	Upper	
146	100		
111	42.0	20.3	60.9
148	63.5	32.0	96.2





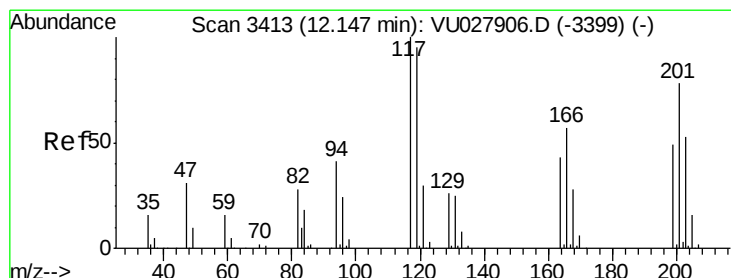
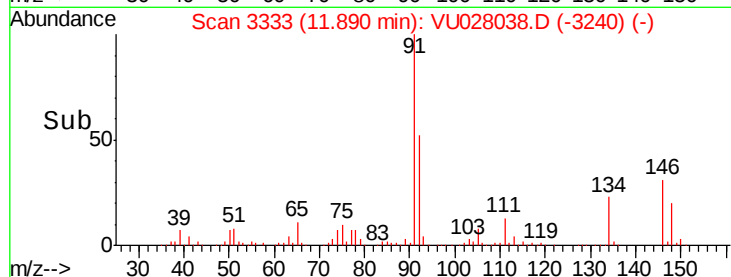
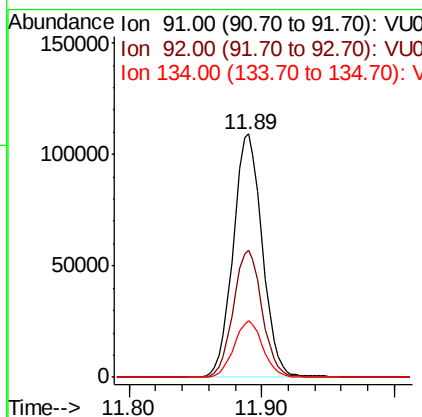
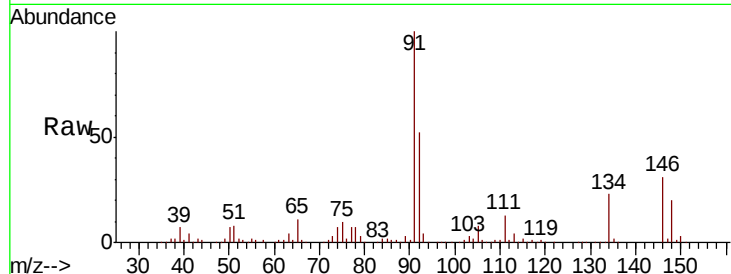
#89
n-Butylbenzene
Concen: 19.355 ug/l
RT: 11.89 min Scan# 3333
Delta R.T. 0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.7	26.2	78.5
134	23.0	11.5	34.5

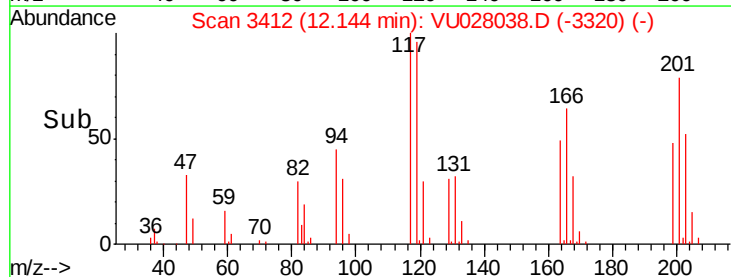
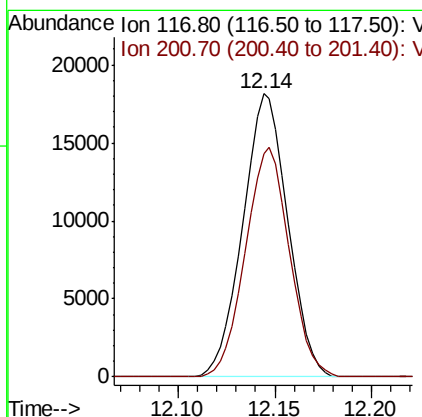
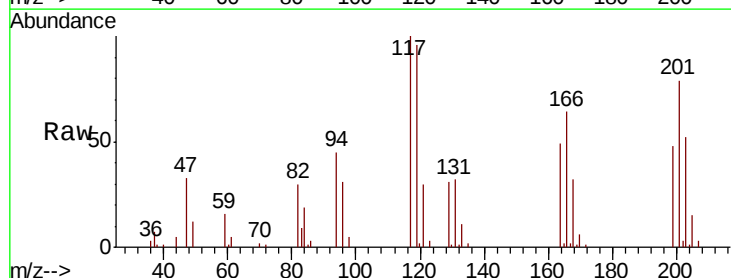
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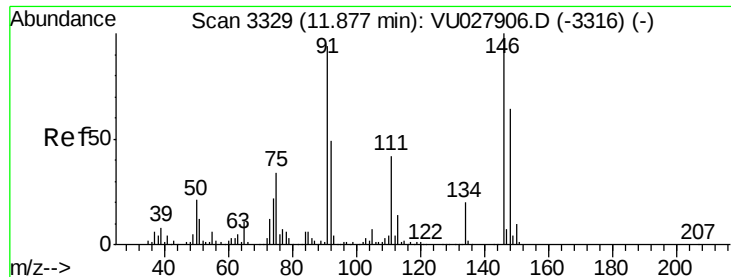
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#90
Hexachloroethane
Concen: 18.219 ug/l
RT: 12.14 min Scan# 3412
Delta R.T. -0.00 min
Lab File: VU028038.D
Acq: 09 Nov 2018 12:41

Tgt Ion	Ratio	Lower	Upper
117	100		
201	79.2	38.5	115.5





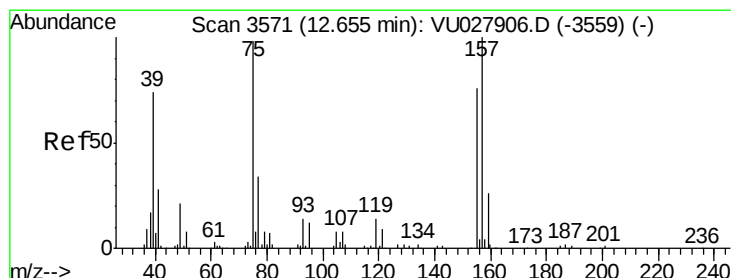
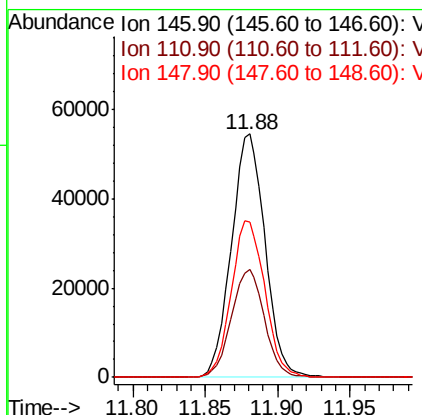
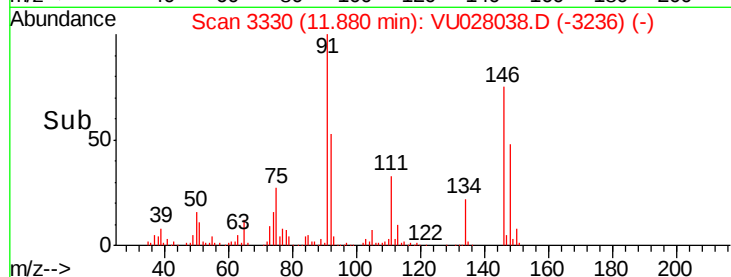
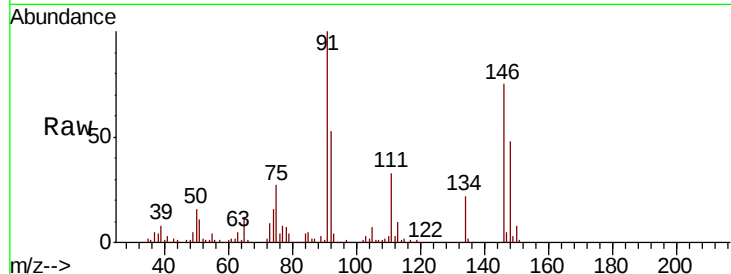
#91
 1,2-Dichlorobenzene
 Concen: 19.208 ug/l
 RT: 11.88 min Scan# 3330
 Delta R.T. 0.00 min
 Lab File: VU028038.D
 Acq: 09 Nov 2018 12:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1109WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.3	64.0
148	64.1	31.8	95.3

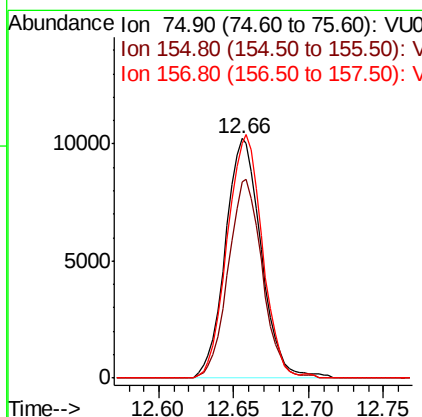
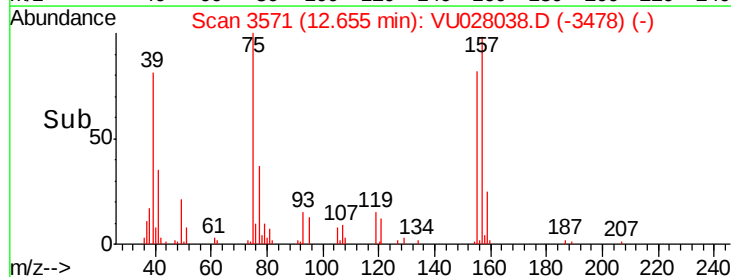
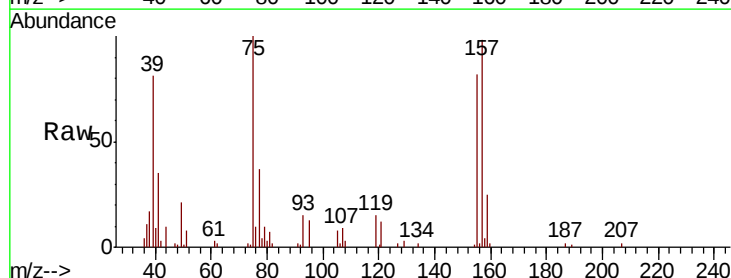
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.712 ug/l
 RT: 12.66 min Scan# 3571
 Delta R.T. -0.00 min
 Lab File: VU028038.D
 Acq: 09 Nov 2018 12:41

Tgt Ion	Ratio	Lower	Upper
75	100		
155	78.8	39.8	119.3
157	98.7	50.6	151.9





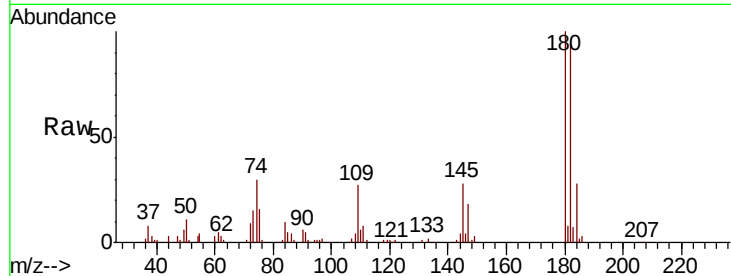
#93
 1,2,4-Trichlorobenzene
 Concen: 17.766 ug/l
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.00 min
 Lab File: VU028038.D
 Acq: 09 Nov 2018 12:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1109WBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	55615		
182	97.4		48.4	145.2
145	30.1		14.9	44.5

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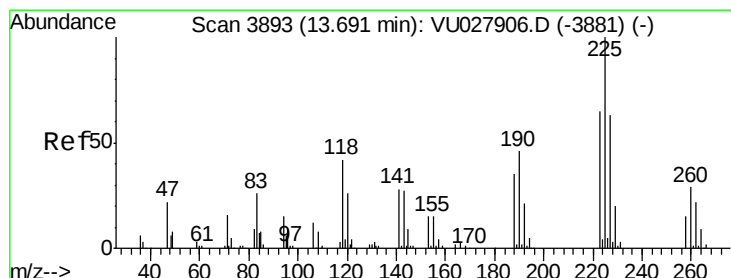
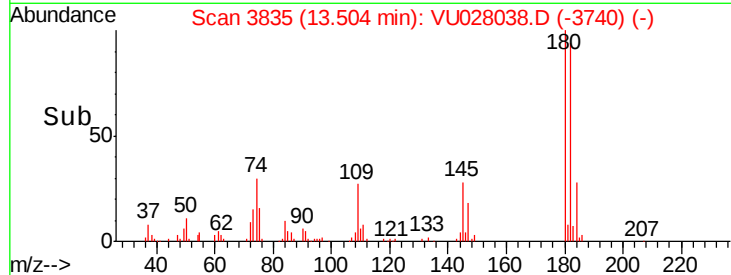
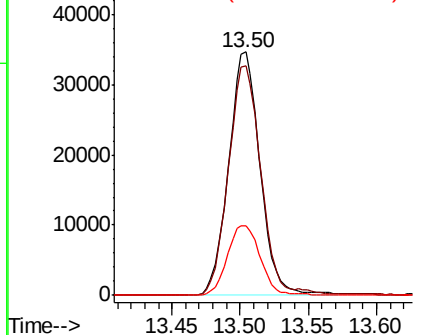


Abundance

Ion 179.80 (179.50 to 180.50): V

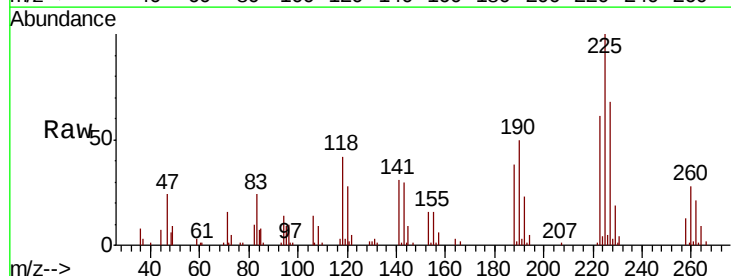
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 19.007 ug/l
 RT: 13.69 min Scan# 3893
 Delta R.T. -0.00 min
 Lab File: VU028038.D
 Acq: 09 Nov 2018 12:41

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	27661		
223	62.8		32.2	96.6
227	64.5		32.5	97.4

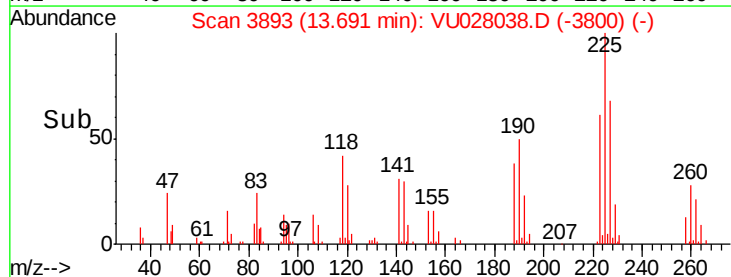
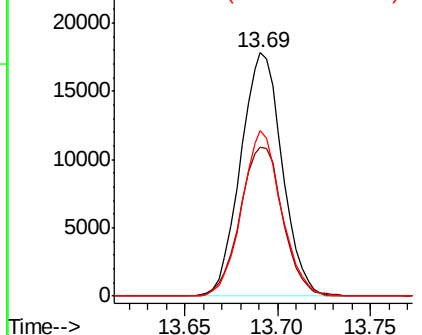


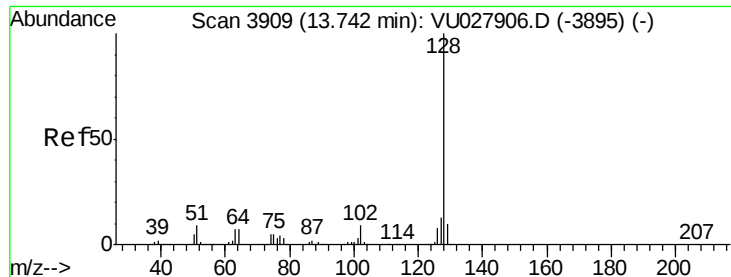
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 17.936 ug/l

RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

Lab File: VU028038.D

Acq: 09 Nov 2018 12:41

Instrument :

MSVOA_U

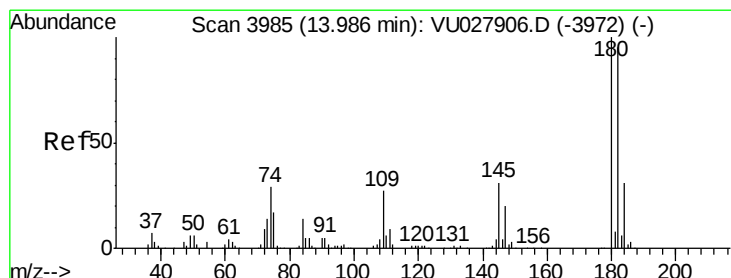
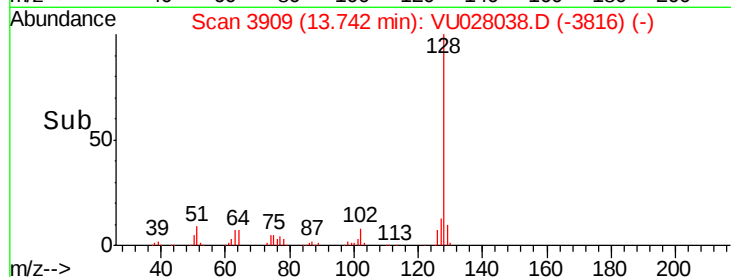
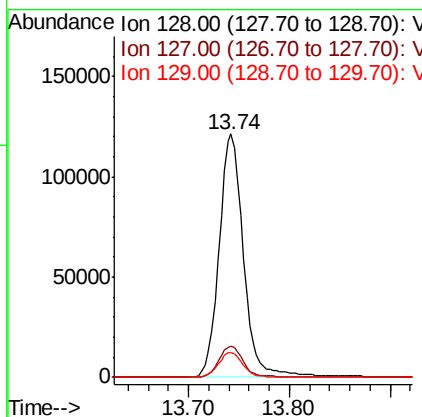
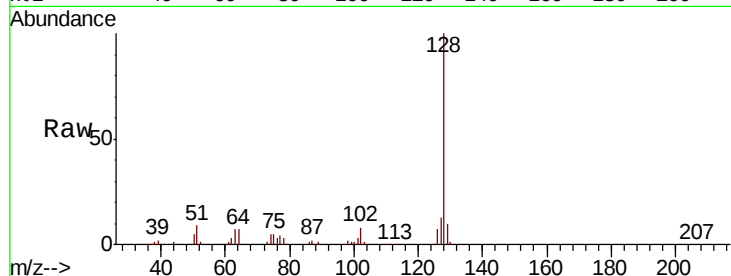
ClientSampleId :

VU1109WBS01

Tot Ion:	128	Resp:	205468
Ion Ratio	Lower	Upper	
128	100		
127	12.7	10.4	15.6
129	9.9	8.3	12.5

Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:01:51 PM



#96

1,2,3-Trichlorobenzene

Concen: 19.286 ug/l

RT: 13.99 min Scan# 3985

Delta R.T. 0.00 min

Lab File: VU028038.D

Acq: 09 Nov 2018 12:41

Tgt Ion:	180	Resp:	59260
Ion Ratio	Lower	Upper	
180	100		
182	93.4	47.4	142.3
145	30.6	16.0	47.9

