

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101018\
 Data File : VU027561.D
 Acq On : 10 Oct 2018 10:47
 Operator : MD/SY
 Sample : VU1010WBSD02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1010WBSD02

Manual Integrations
 APPROVED

MMDadoda
 10/11/2018 9:02:12 AM

Quant Time: Oct 11 05:02:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U100118W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 02 02:04:34 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	119719	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	207819	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	188801	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	91253	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	90644	45.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.68%	
35) Dibromofluoromethane	4.88	113	66265	46.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.06%	
50) Toluene-d8	7.57	98	249576	46.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.64%	
62) 4-Bromofluorobenzene	10.31	95	89218	45.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.08%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	31218	18.087	ug/l	98
3) Chloromethane	1.33	50	41933	17.945	ug/l	98
4) Vinyl Chloride	1.40	62	39608	18.031	ug/l	100
5) Bromomethane	1.62	94	22570	23.746	ug/l	99
6) Chloroethane	1.70	64	23004	17.428	ug/l	97
7) Trichlorofluoromethane	1.89	101	41880	18.791	ug/l	99
8) Diethyl Ether	2.11	74	19084	18.588	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	2.29	101	24065	18.592	ug/l	97
10) Methyl Iodide	2.41	142	20415	23.351	ug/l	98
11) Tert butyl alcohol	2.83	59	42766	101.587	ug/l	99
12) 1,1-Dichloroethene	2.29	96	22925	18.128	ug/l	98
13) Acrolein	2.20	56	15125	42.818	ug/l	100
14) Allyl chloride	2.59	41	54019	17.989	ug/l	99
15) Acrylonitrile	2.94	53	109312	99.765	ug/l	98
16) Acetone	2.32	43	106797	90.430	ug/l	99
17) Carbon Disulfide	2.48	76	72764	15.954	ug/l	99
18) Methyl Acetate	2.62	43	59941	22.249	ug/l	99
19) Methyl tert-butyl Ether	3.00	73	97430	19.228	ug/l	96
20) Methylene Chloride	2.70	84	30321	18.432	ug/l	97
21) trans-1,2-Dichloroethene	2.99	96	26601	18.736	ug/l	97
22) Diisopropyl ether	3.58	45	117628	19.272	ug/l	98
23) Vinyl Acetate	3.53	43	489814	91.892	ug/l	100
24) 1,1-Dichloroethane	3.45	63	59516	18.968	ug/l	98
25) 2-Butanone	4.27	43	157132	97.569	ug/l	100
26) 2,2-Dichloropropane	4.23	77	46559	18.058	ug/l	98
27) cis-1,2-Dichloroethene	4.23	96	30188	18.593	ug/l	99
28) Bromochloromethane	4.55	49	31181	20.598	ug/l	99
29) Tetrahydrofuran	4.64	42	100555	99.075	ug/l	98
30) Chloroform	4.68	83	53197	19.082	ug/l	99
31) Cyclohexane	5.00	56	55554	17.171	ug/l	93
32) 1,1,1-Trichloroethane	4.92	97	44922	19.133	ug/l	99
36) 1,1-Dichloropropene	5.14	75	39298	17.416	ug/l	99
37) Ethyl Acetate	4.39	43	53511	18.349	ug/l	99
38) Carbon Tetrachloride	5.14	117	36818	18.063	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.42	83	45843	17.380	ug/l	99
40) Benzene	5.39	78	122583	18.650	ug/l	100
41) Methacrylonitrile	4.55	41	31349	19.019	ug/l	99
42) 1,2-Dichloroethane	5.41	62	45118	18.493	ug/l	99
43) Isopropyl Acetate	5.55	43	85522	18.882	ug/l	99
44) Trichloroethene	6.19	130	27185	18.549	ug/l	100
45) 1,2-Dichloropropane	6.44	63	36009	18.994	ug/l	97
46) Dibromomethane	6.56	93	20953	19.569	ug/l	97
47) Bromodichloromethane	6.76	83	41135	18.515	ug/l	98
48) Methyl methacrylate	6.63	41	42125	18.703	ug/l	99
49) 1,4-Dioxane	6.62	88	15647	403.763	ug/l	99
51) 4-Methyl-2-Pentanone	7.46	43	286049	97.192	ug/l	99
52) Toluene	7.64	92	71617	18.409	ug/l	99
53) t-1,3-Dichloropropene	7.88	75	47593	18.270	ug/l	97
54) cis-1,3-Dichloropropene	7.27	75	51440	18.369	ug/l	99
55) 1,1,2-Trichloroethane	8.07	97	30413	19.717	ug/l	98
56) Ethyl methacrylate	8.02	69	49038	18.119	ug/l	99
57) 1,3-Dichloropropane	8.24	76	55458	18.521	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.13	63	143795	93.958	ug/l	99
59) 2-Hexanone	8.36	43	222389	97.408	ug/l	100
60) Dibromochloromethane	8.48	129	29524	19.084	ug/l	97
61) 1,2-Dibromoethane	8.59	107	30658	18.694	ug/l	100
64) Tetrachloroethene	8.23	164	21796	18.545	ug/l	98
65) Chlorobenzene	9.12	112	74721	18.802	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.21	131	27063	19.726	ug/l	98
67) Ethyl Benzene	9.25	91	131261	18.642	ug/l	99
68) m/p-Xylenes	9.38	106	98706	38.325	ug/l	98
69) o-Xylene	9.78	106	47803	19.532	ug/l	98
70) Styrene	9.79	104	78153	18.596	ug/l	99
71) Bromoform	9.96	173	21338	19.331	ug/l #	99
73) Isopropylbenzene	10.17	105	130538	19.696	ug/l	100
74) N-amyl acetate	10.02	43	72987	19.237	ug/l	100
75) 1,1,2,2-Tetrachloroethane	10.46	83	52172	20.048	ug/l	99
76) 1,2,3-Trichloropropane	10.49	75	47043m	19.887	ug/l	
77) Bromobenzene	10.45	156	30242	19.634	ug/l	96
78) n-propylbenzene	10.59	91	152843	19.192	ug/l	100
79) 2-Chlorotoluene	10.66	91	94004	19.550	ug/l	99
80) 1,3,5-Trimethylbenzene	10.77	105	107555	19.933	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.51	75	17843m	19.741	ug/l	
82) 4-Chlorotoluene	10.77	91	103673	18.999	ug/l	98
83) tert-Butylbenzene	11.10	119	105219	20.171	ug/l	97
84) 1,2,4-Trimethylbenzene	11.15	105	109404	19.849	ug/l	100
85) sec-Butylbenzene	11.32	105	128394	19.535	ug/l	99
86) p-Isopropyltoluene	11.48	119	110684	19.669	ug/l	99
87) 1,3-Dichlorobenzene	11.42	146	55375	18.986	ug/l	99
88) 1,4-Dichlorobenzene	11.51	146	56217	18.862	ug/l	99
89) n-Butylbenzene	11.89	91	96782	17.524	ug/l	99
90) Hexachloroethane	12.15	117	20656	19.473	ug/l	98
91) 1,2-Dichlorobenzene	11.88	146	55791	19.652	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.66	75	11390	19.749	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	35177	19.149	ug/l	99
94) Hexachlorobutadiene	13.69	225	18147	19.552	ug/l	99
95) Naphthalene	13.74	128	123924	19.026	ug/l	100
96) 1,2,3-Trichlorobenzene	13.99	180	37738	19.719	ug/l	99

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

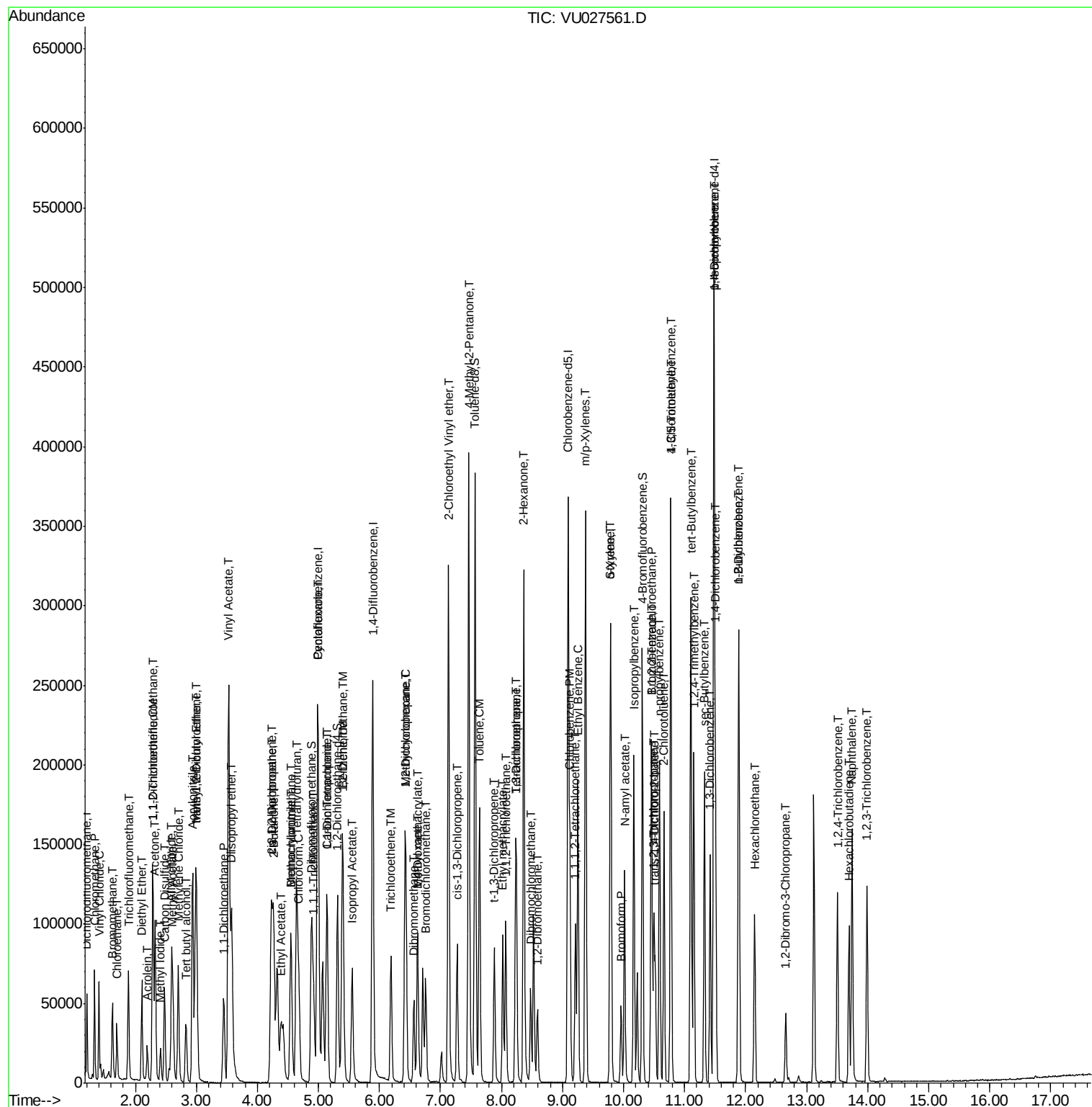
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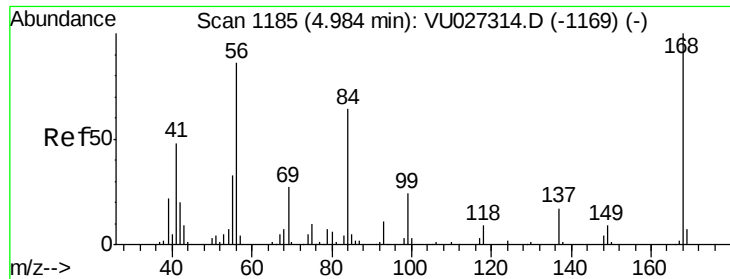
Instrument :
MSVOA_U
ClientSampleId :
VU1010WBSD02

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

Instrument :

MSVOA_U

ClientSampleId :

VU1010WBSD02

Tot Ion:168 Resp: 119719

Ion Ratio Lower Upper

168 100

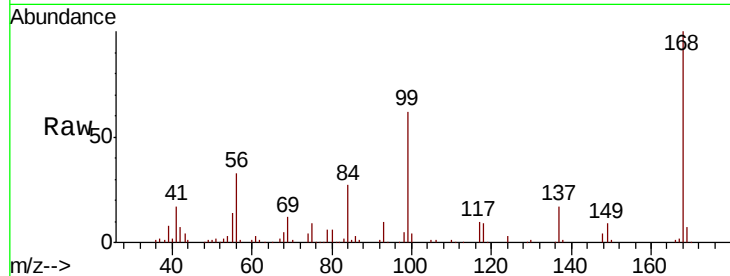
99 60.5 50.8 76.2

Manual Integrations

APPROVED

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10/11/2018 9:02:12 AM



Abundance Ion 167.90 (167.60 to 168.60): VU027314.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU027314.D (-1169) (-)

4.99

60000

50000

40000

30000

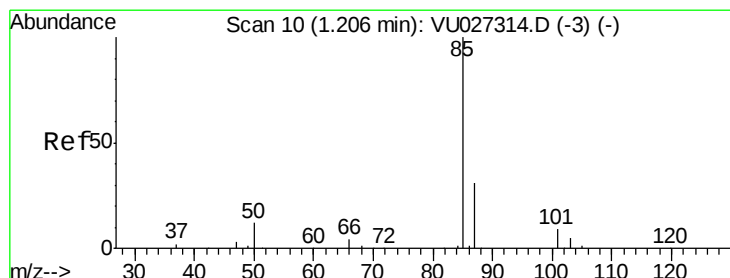
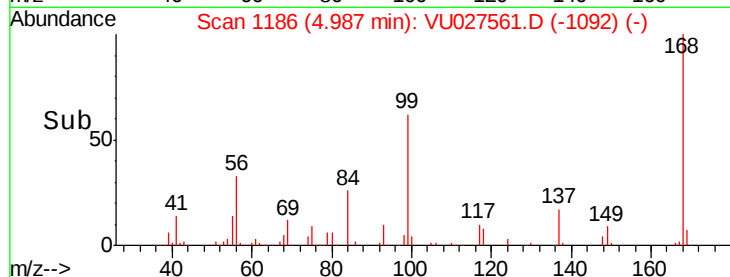
20000

10000

0

4.90 4.95 5.00 5.05

Time-->



#2

Dichlorodifluoromethane

Concen: 18.087 ug/l

RT: 1.21 min Scan# 10

Delta R.T. -0.00 min

Lab File: VU027561.D

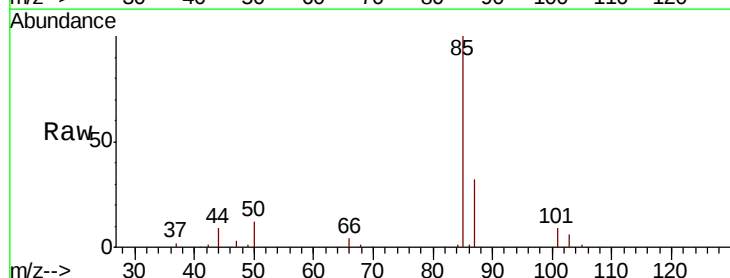
Acq: 10 Oct 2018 10:47

Tgt Ion: 85 Resp: 31218

Ion Ratio Lower Upper

85 100

87 32.5 15.7 47.1



Abundance Ion 84.90 (84.60 to 85.60): VU027314.D (-3) (-)

Ion 86.90 (86.60 to 87.60): VU027314.D (-3) (-)

1.21

30000

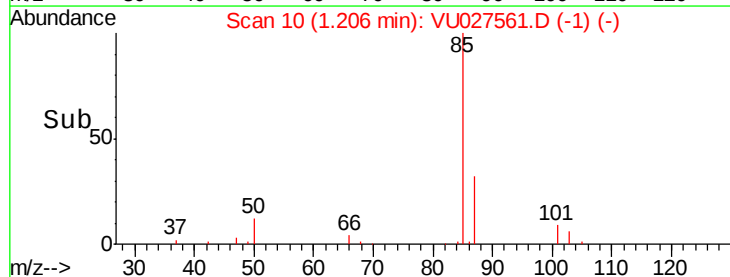
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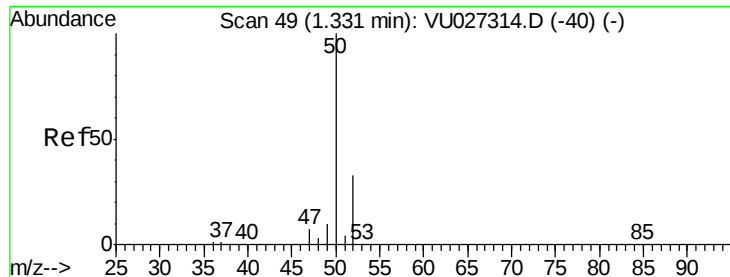
10000

0

1.15 1.20 1.25 1.30

Time-->





#3

Chloromethane

Concen: 17.945 ug/l

RT: 1.33 min Scan# 49

Delta R.T. -0.00 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

Instrument :

MSVOA_U

ClientSampleId :

VU1010WBSD02

Tot Ion: 50 Resp: 41933

Ion Ratio Lower Upper

50 100

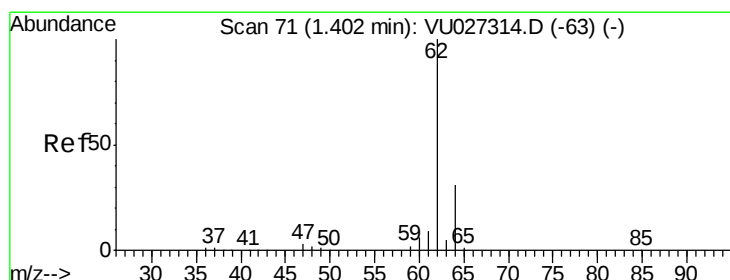
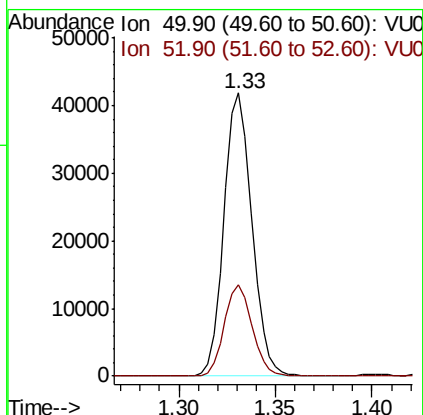
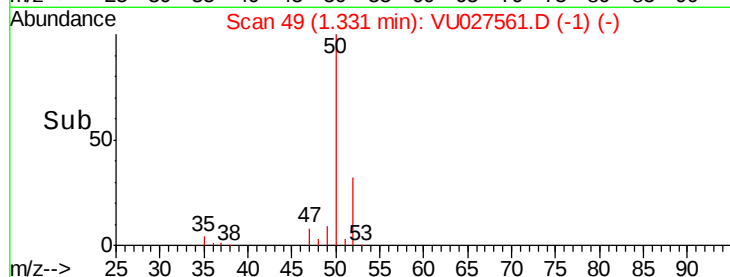
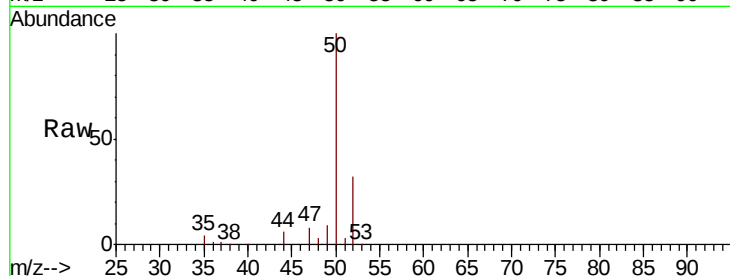
52 32.2 26.5 39.7

Manual Integrations

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10/11/2018 9:02:12 AM



#4

Vinyl Chloride

Concen: 18.031 ug/l

RT: 1.40 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU027561.D

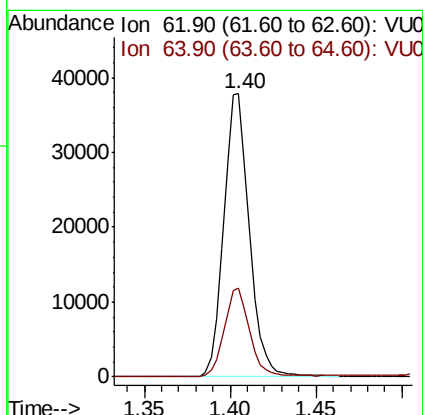
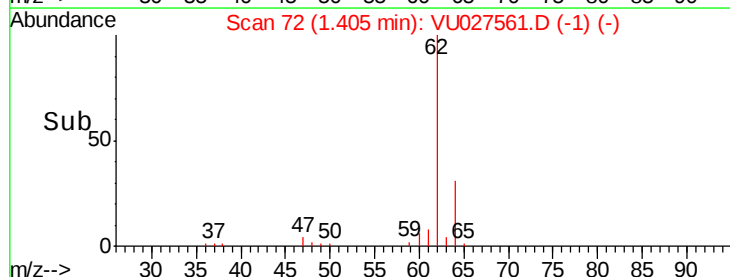
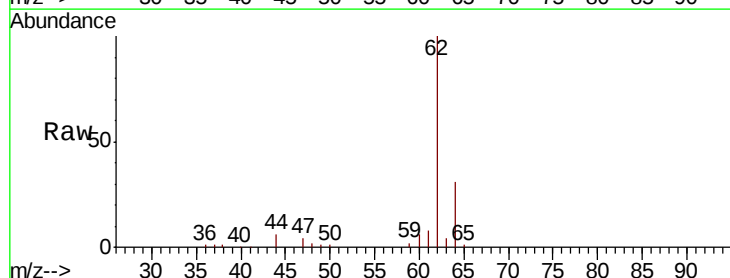
Acq: 10 Oct 2018 10:47

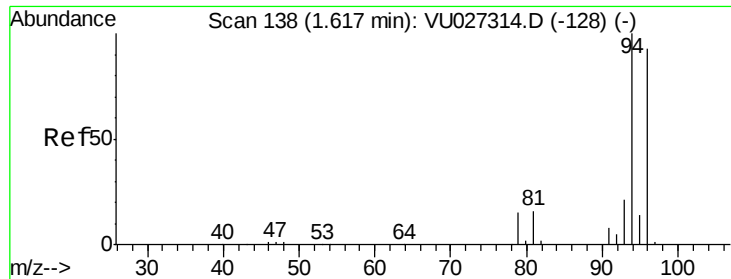
Tgt Ion: 62 Resp: 39608

Ion Ratio Lower Upper

62 100

64 31.3 24.9 37.3





#5

Bromomethane

Concen: 23.746 ug/l

RT: 1.62 min Scan# 140

Delta R.T. 0.01 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

Instrument :

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ClientSampleId :

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Tot Ion: 94 Resp: 22570

Ion Ratio Lower Upper

94 100

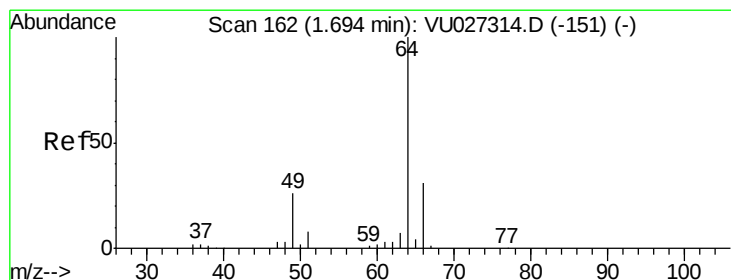
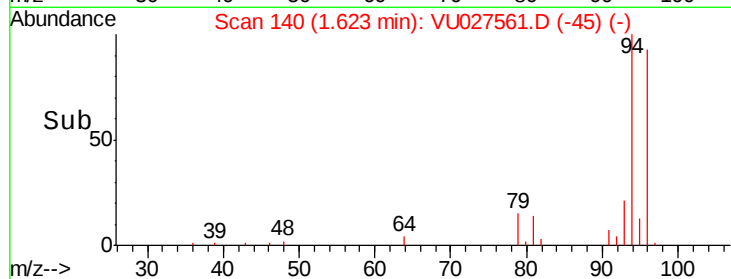
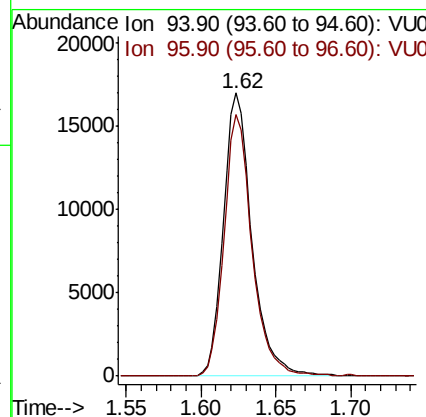
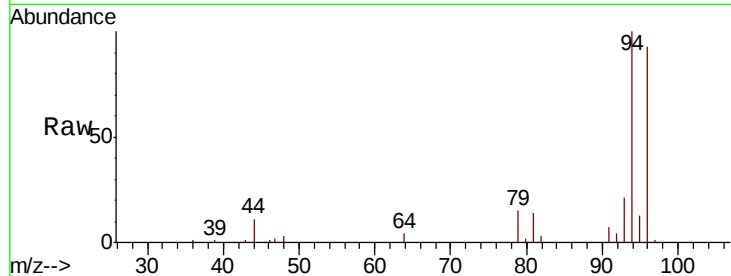
96 92.6 74.6 111.8

Manual Integrations

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10/11/2018 9:02:12 AM



#6

Chloroethane

Concen: 17.428 ug/l

RT: 1.70 min Scan# 163

Delta R.T. 0.00 min

Lab File: VU027561.D

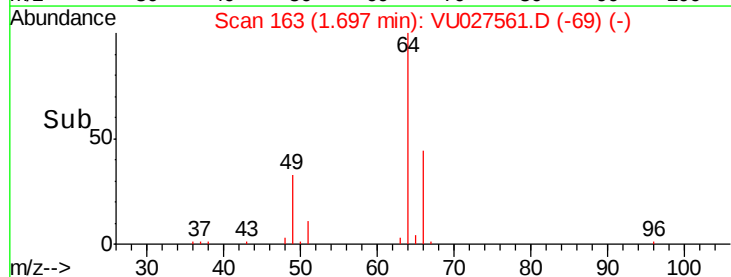
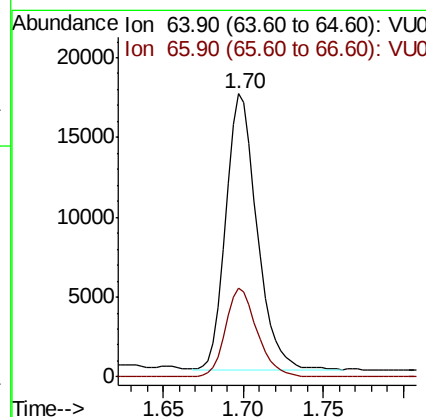
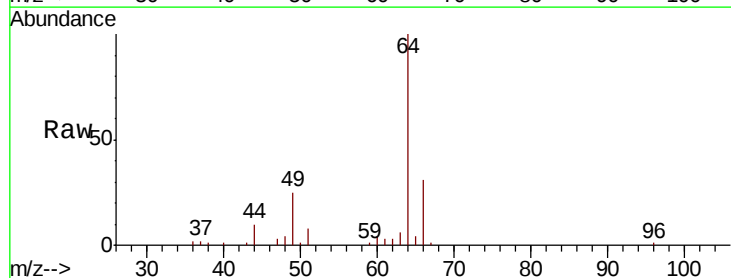
Acq: 10 Oct 2018 10:47

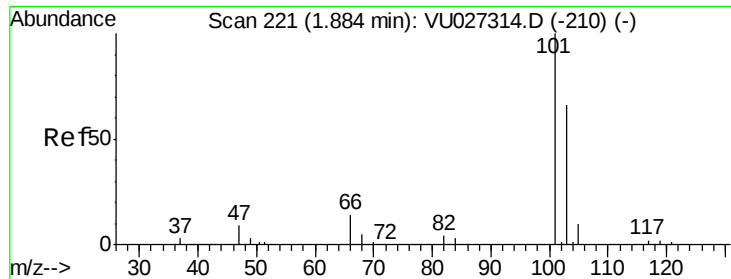
Tgt Ion: 64 Resp: 23004

Ion Ratio Lower Upper

64 100

66 32.2 24.6 36.8





#7

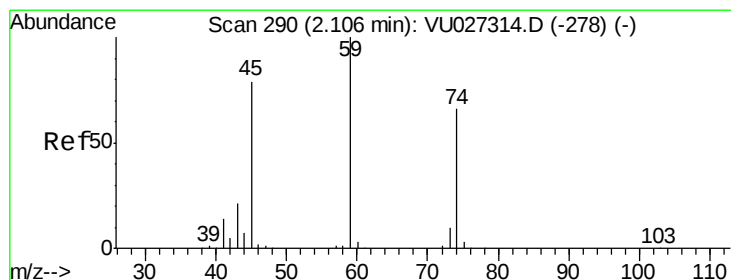
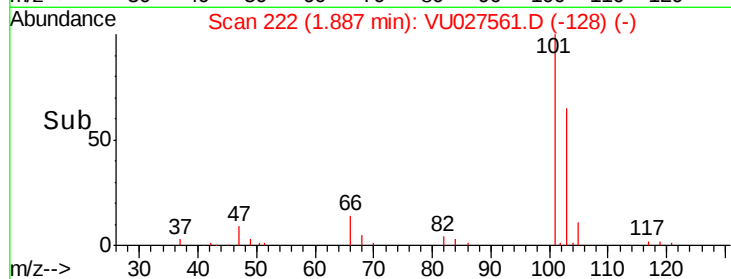
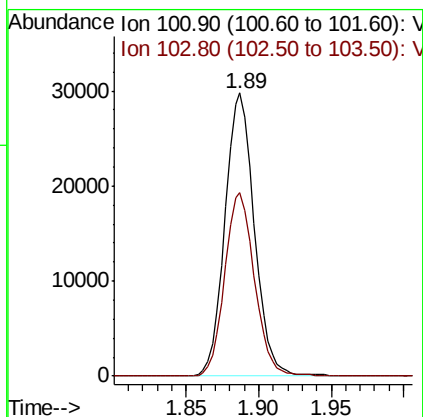
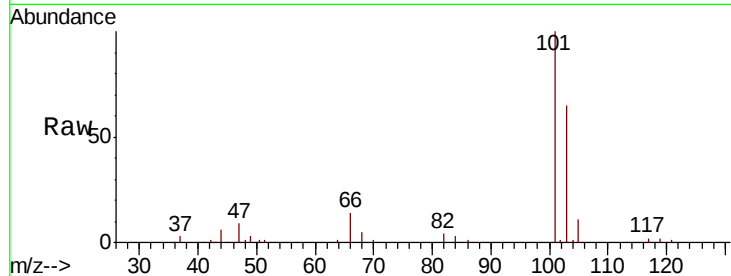
Trichlorofluoromethane
Concen: 18.791 ug/l
RT: 1.89 min Scan# 222
Delta R.T. 0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VU1010WBSD02

Tot Ion:101 Resp: 41880
Ion Ratio Lower Upper
101 100
103 64.7 52.6 78.8

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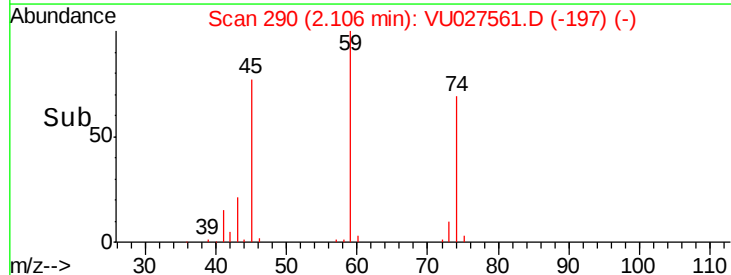
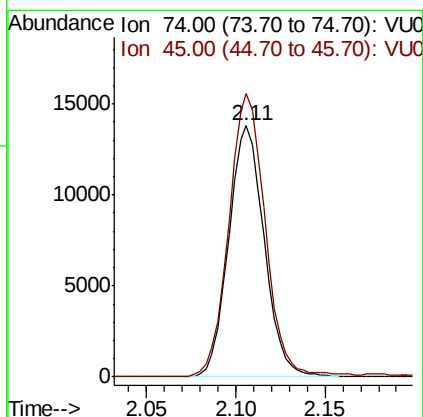
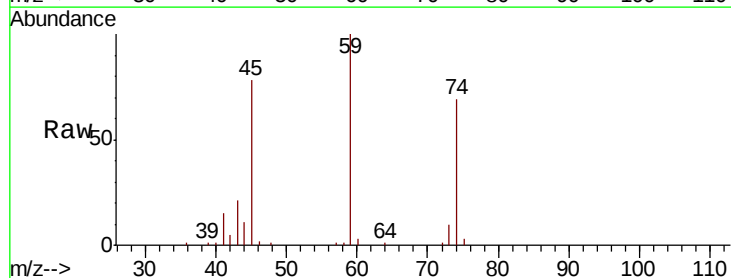
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10/11/2018 9:02:12 AM

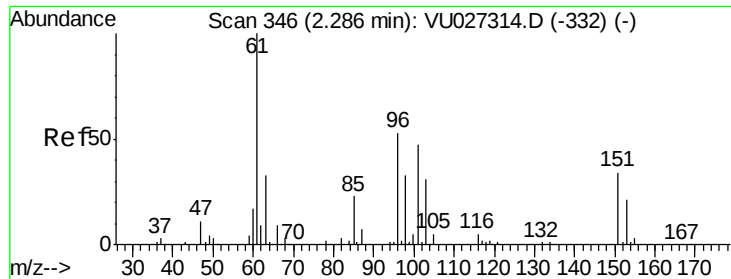


#8

Diethyl Ether
Concen: 18.588 ug/l
RT: 2.11 min Scan# 290
Delta R.T. -0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Tgt Ion: 74 Resp: 19084
Ion Ratio Lower Upper
74 100
45 116.4 60.4 181.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.592 ug/l

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

Instrument :

MSVOA_U

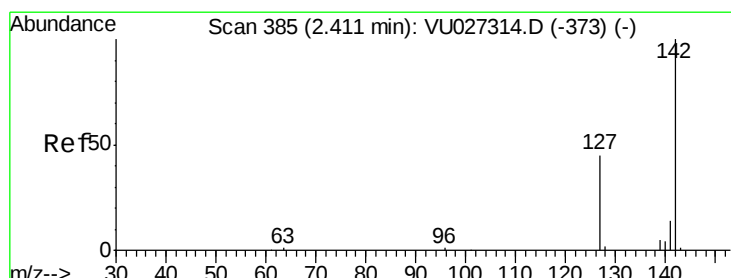
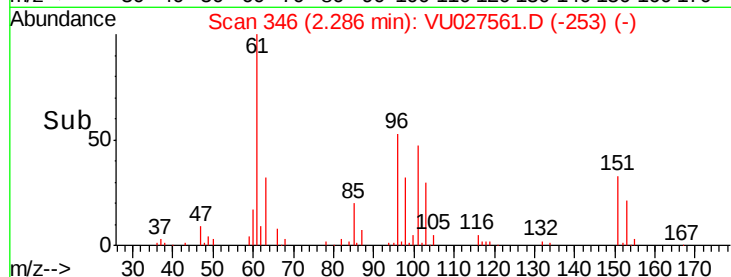
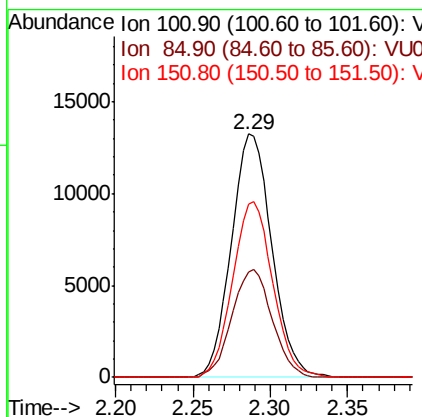
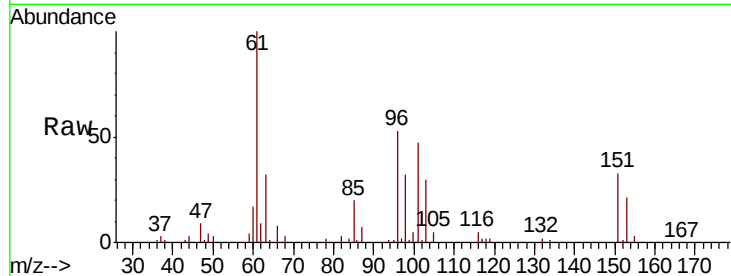
ClientSampleId :

VU1010WBSD02

Tot Ion:	101	Resp:	24065
Ion Ratio	Lower	Upper	
101	100		
85	44.0	37.5	56.3
151	71.4	55.6	83.4

Manual Integrations
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#10

Methyl Iodide

Concen: 23.351 ug/l

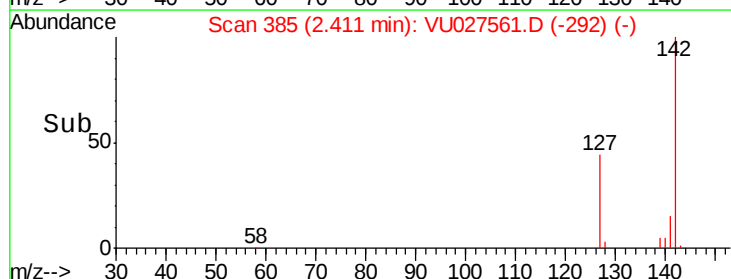
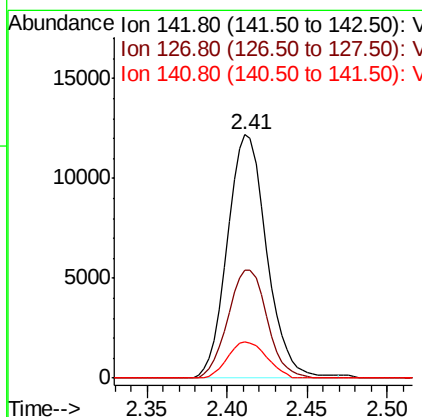
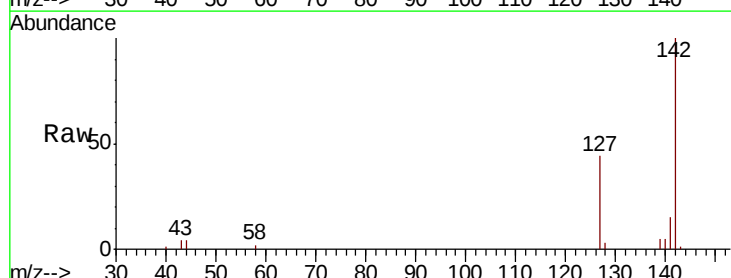
RT: 2.41 min Scan# 385

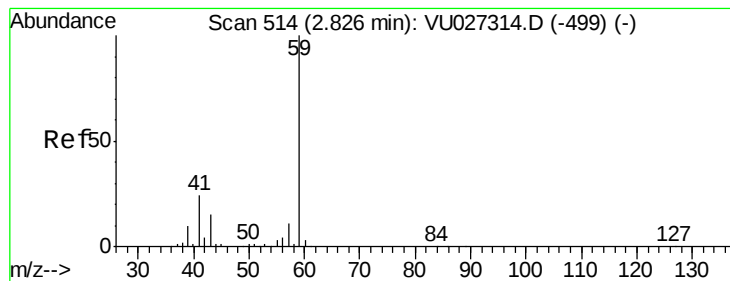
Delta R.T. 0.00 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

Tgt Ion:	142	Resp:	20415
Ion Ratio	Lower	Upper	
142	100		
127	44.1	36.3	54.5
141	14.7	11.6	17.4





#11

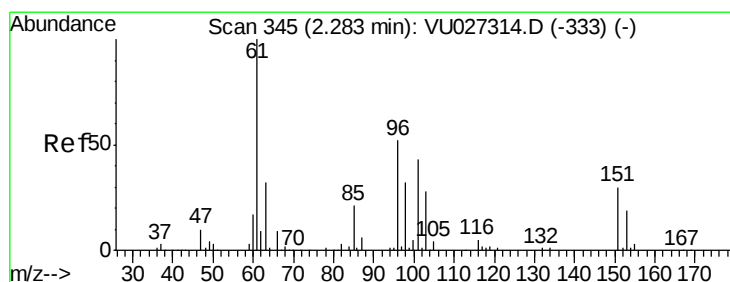
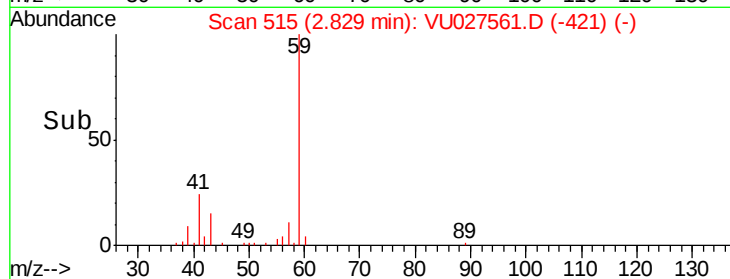
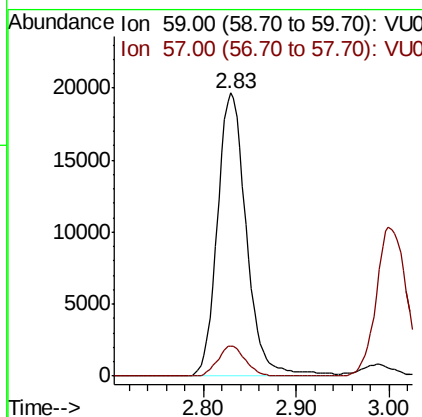
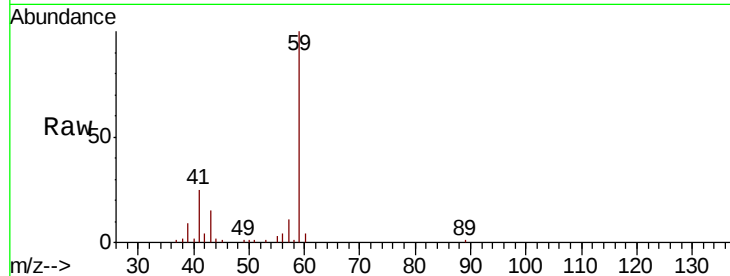
Tert butyl alcohol
 Concen: 101.587 ug/l
 RT: 2.83 min Scan# 515
 Delta R.T. 0.00 min
 Lab File: VU027561.D
 Acq: 10 Oct 2018 10:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1010WBSD02

Tot Ion	59	Resp	42766
Ion Ratio	100	Lower	Upper
57	10.0	8.4	12.6

Manual Integrations
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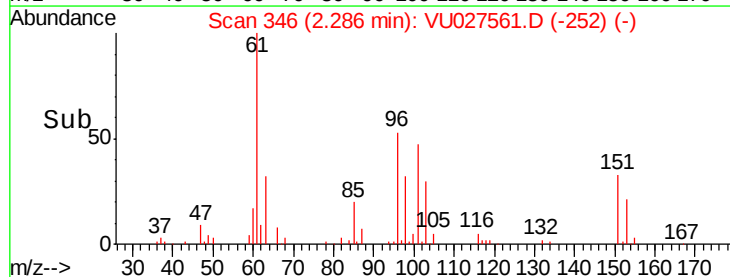
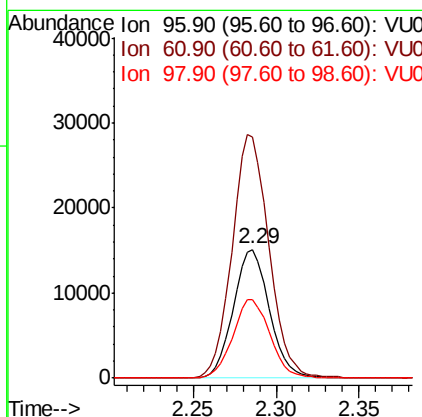
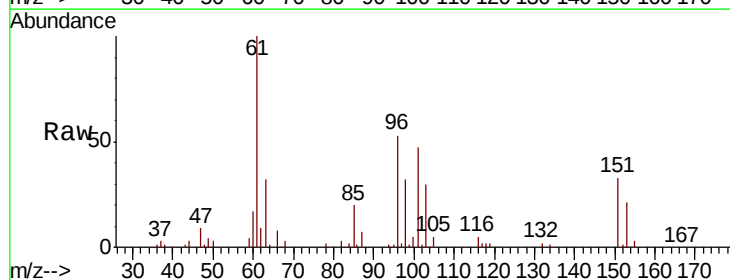
MMDadoda
 10/11/2018 9:02:12 AM

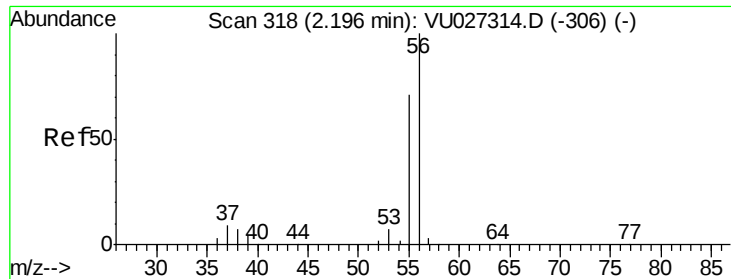


#12

1,1-Dichloroethene
 Concen: 18.128 ug/l
 RT: 2.29 min Scan# 346
 Delta R.T. 0.00 min
 Lab File: VU027561.D
 Acq: 10 Oct 2018 10:47

Tgt Ion	96	Resp	22925
Ion Ratio	100	Lower	Upper
61	187.5	153.0	229.6
98	60.8	49.3	73.9





#13

Acrolein

Concen: 42.818 ug/l

RT: 2.20 min Scan# 318

Delta R.T. -0.00 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

Instrument :

MSVOA_U

ClientSampleId :

VU1010WBSD02

Tot Ion: 56 Resp: 15125

Ion Ratio Lower Upper

56 100

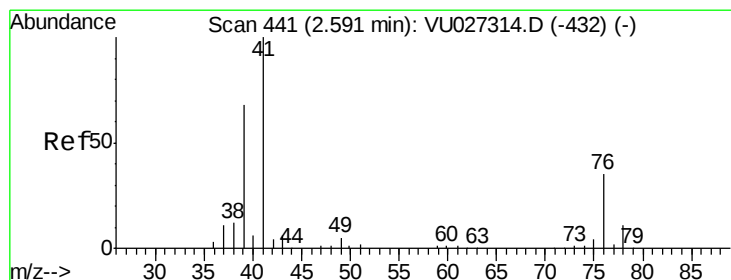
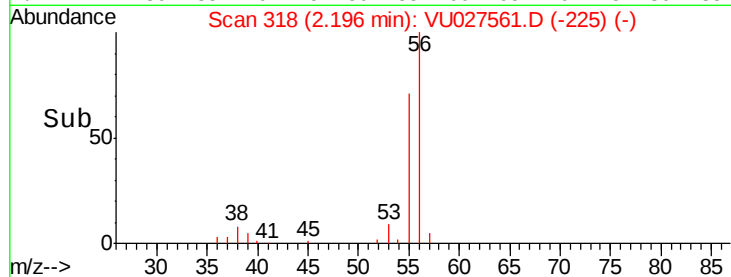
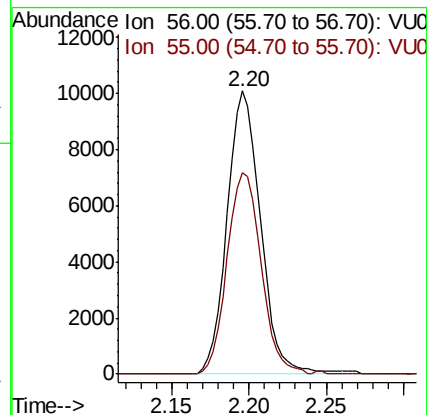
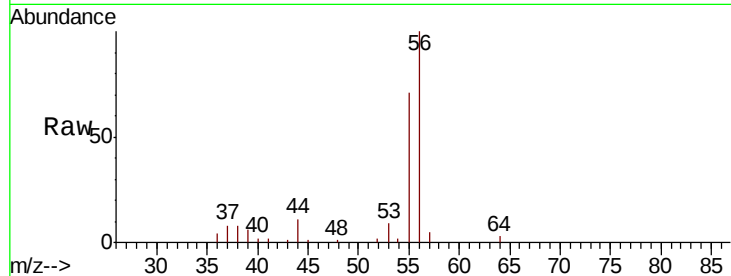
55 72.3 57.7 86.5

Manual Integrations

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#14

Allyl chloride

Concen: 17.989 ug/l

RT: 2.59 min Scan# 442

Delta R.T. 0.00 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

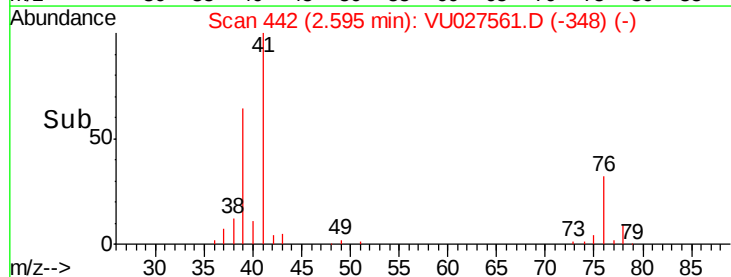
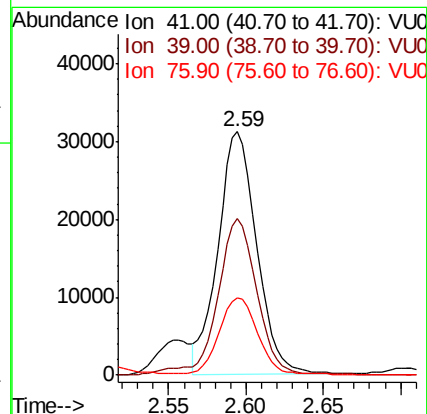
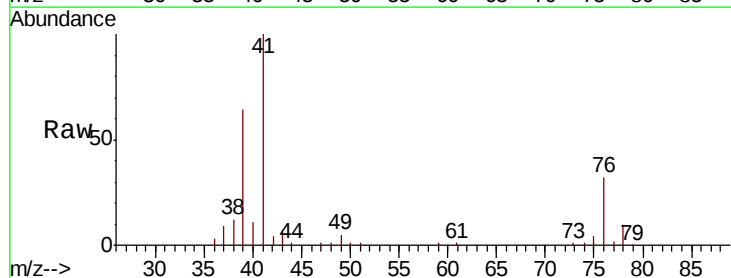
Tgt Ion: 41 Resp: 54019

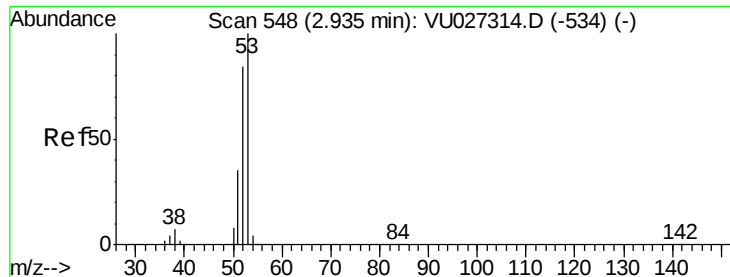
Ion Ratio Lower Upper

41 100

39 65.9 51.8 77.8

76 32.2 25.9 38.9





#15

Acrylonitrile

Concen: 99.765 ug/l

RT: 2.94 min Scan# 549

Delta R.T. 0.00 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

Instrument :

MSVOA_U

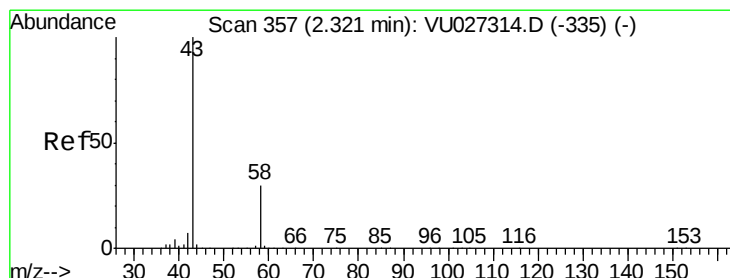
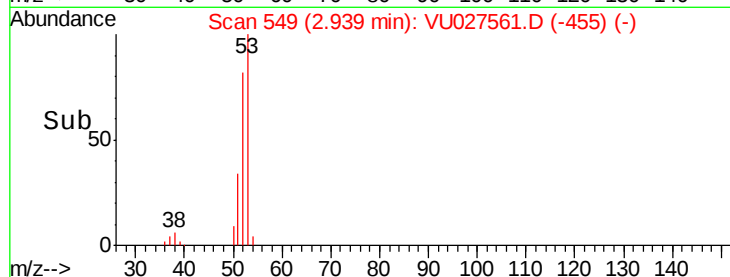
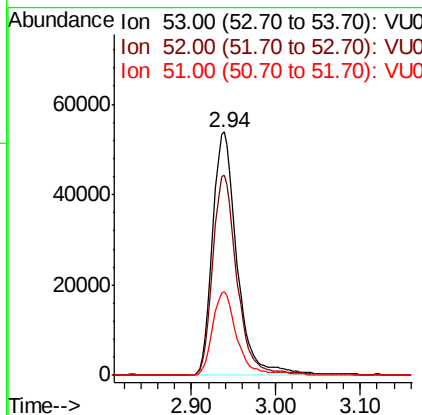
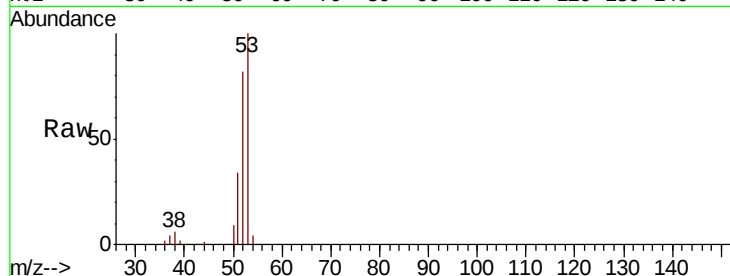
ClientSampleId :

VU1010WBSD02

Tot Ion:	53	Resp:	109312
Ion	Ratio	Lower	Upper
53	100		
52	80.2	66.5	99.7
51	34.4	27.6	41.4

Manual Integrations
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#16

Acetone

Concen: 90.430 ug/l

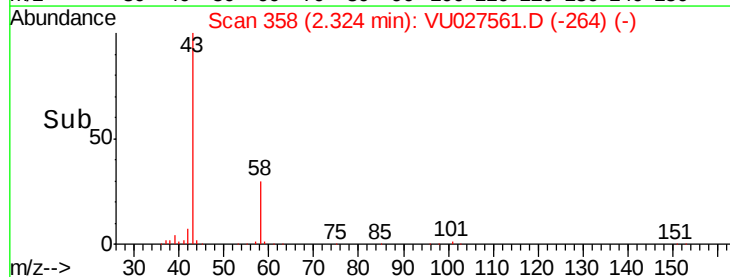
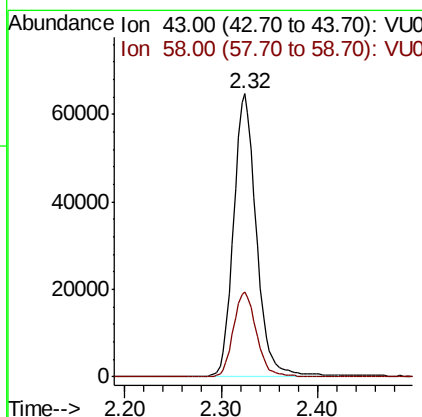
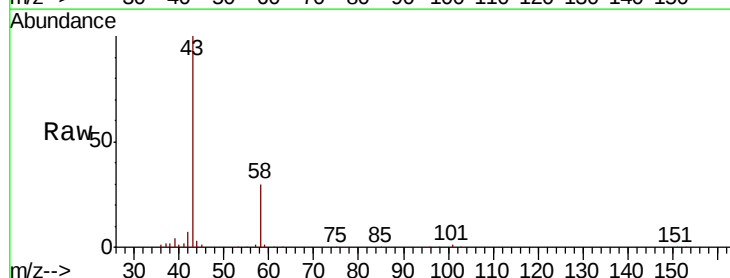
RT: 2.32 min Scan# 358

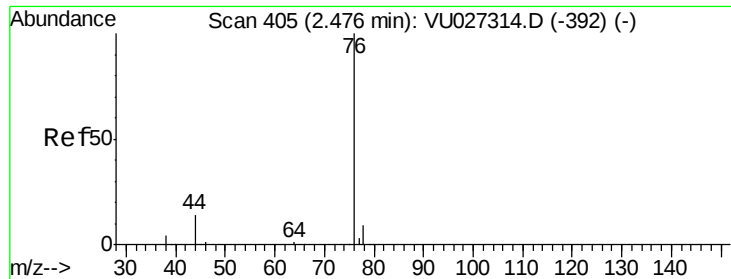
Delta R.T. 0.00 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

Tgt Ion:	43	Resp:	106797
Ion	Ratio	Lower	Upper
43	100		
58	30.0	24.2	36.4





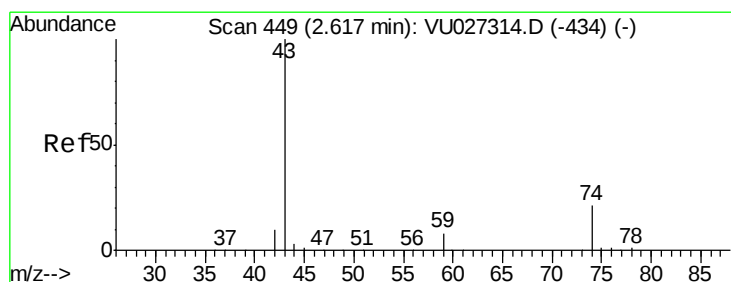
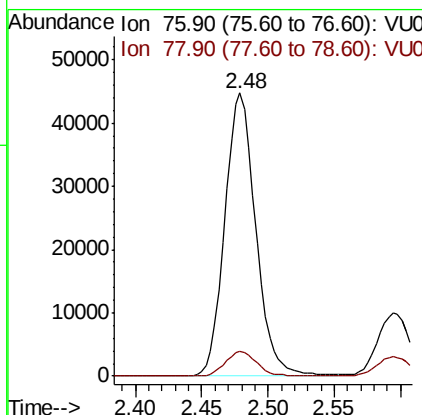
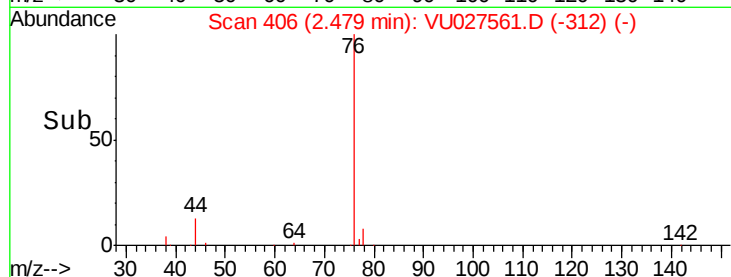
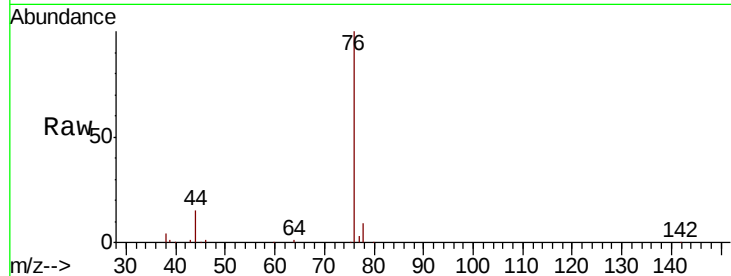
#17
Carbon Disulfide
Concen: 15.954 ug/l
RT: 2.48 min Scan# 406
Delta R.T. 0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VU1010WBSD02

Tot Ion: 76 Resp: 72764
Ion Ratio Lower Upper
76 100
78 8.7 7.3 10.9

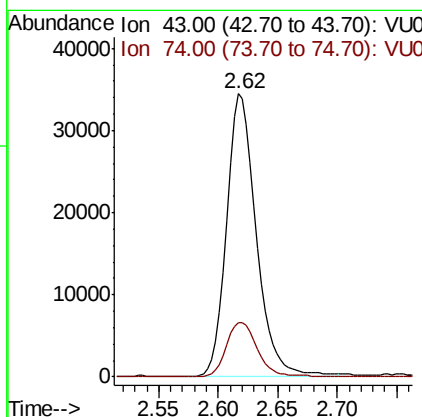
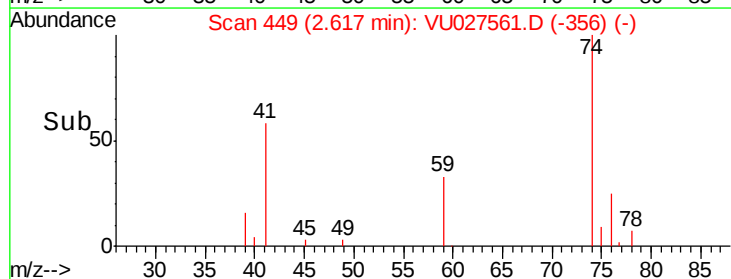
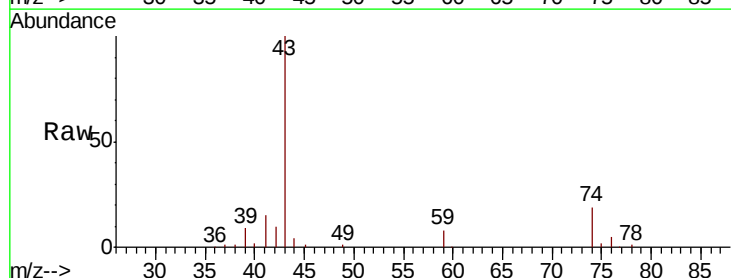
Manual Integrations
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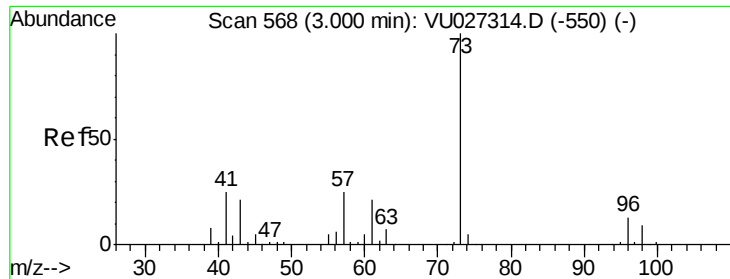
MMDadoda
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#18
Methyl Acetate
Concen: 22.249 ug/l
RT: 2.62 min Scan# 449
Delta R.T. -0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Tgt Ion: 43 Resp: 59941
Ion Ratio Lower Upper
43 100
74 20.1 16.5 24.7





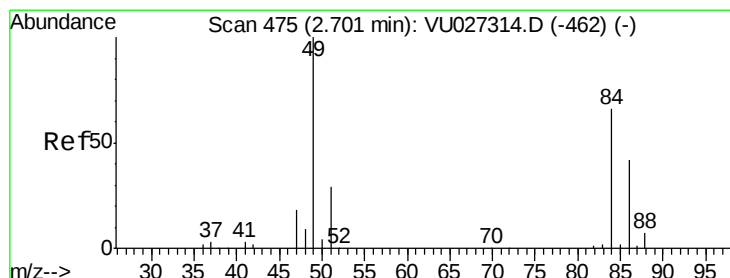
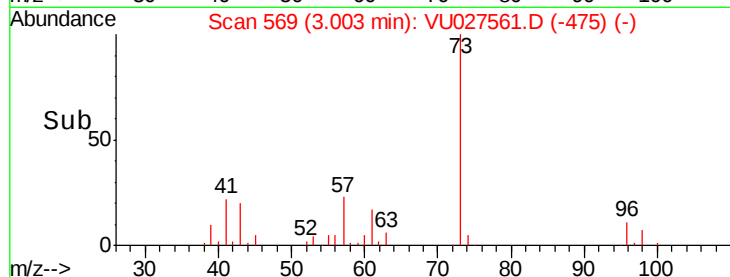
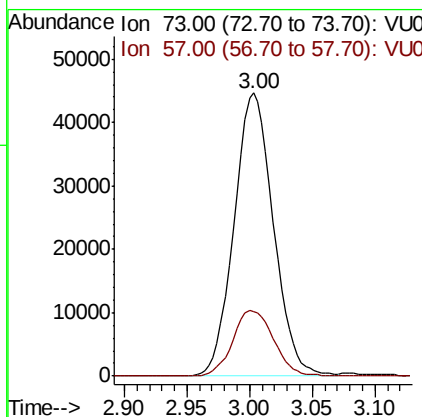
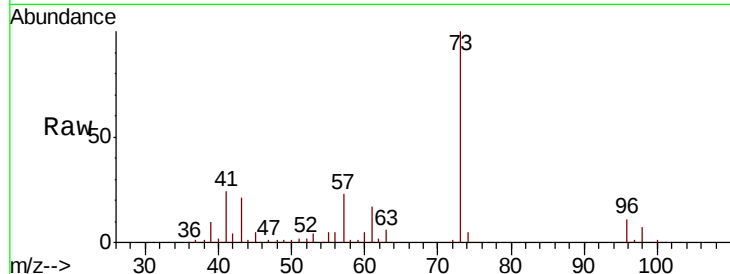
#19
Methvl tert-butvl Ether
Concen: 19.228 ug/l
RT: 3.00 min Scan# 569
Delta R.T. 0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VU1010WBSD02

Tot Ion: 73 Resp: 97430
Ion Ratio Lower Upper
73 100
57 22.8 20.0 30.0

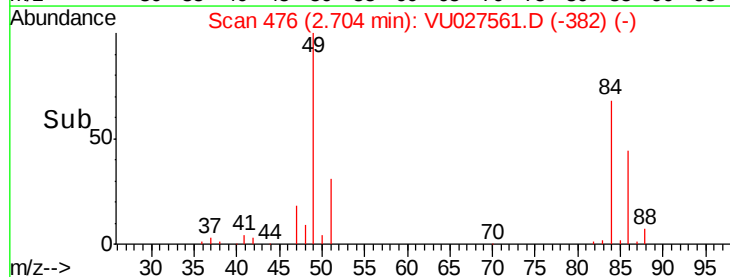
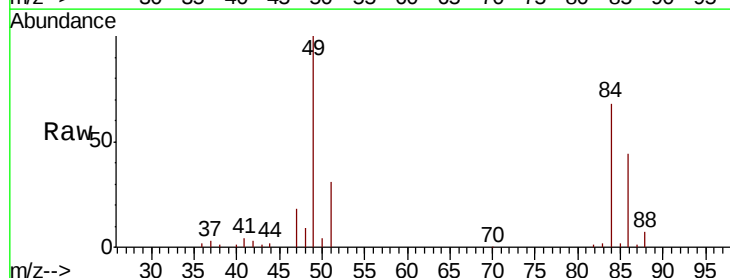
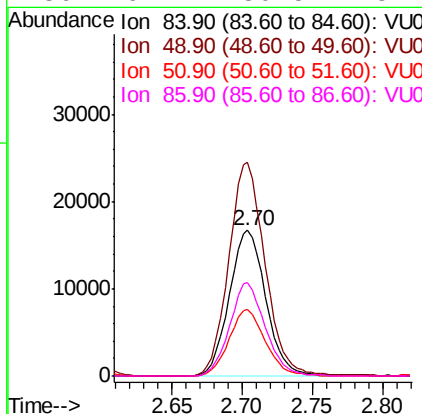
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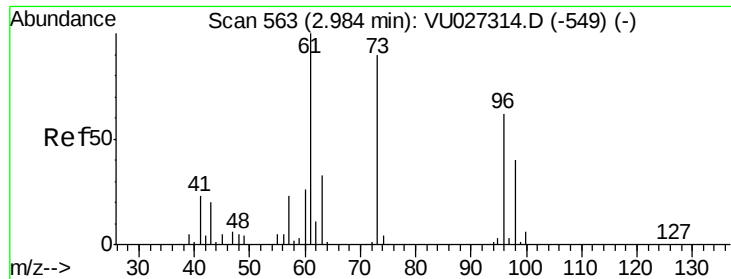
MMDadoda
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#20
Methylene Chloride
Concen: 18.432 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Tgt Ion: 84 Resp: 30321
Ion Ratio Lower Upper
84 100
49 146.7 120.5 180.7
51 45.4 35.1 52.7
86 64.4 50.5 75.7





#21

trans-1,2-Dichloroethene

Concen: 18.736 ug/l

RT: 2.99 min Scan# 564

Delta R.T. 0.00 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

Instrument :

MSVOA_U

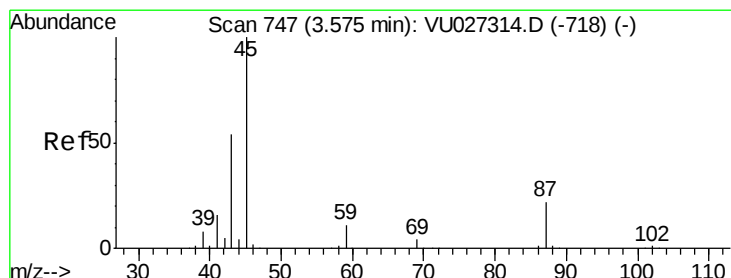
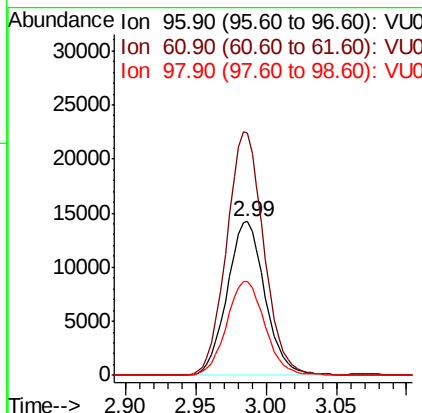
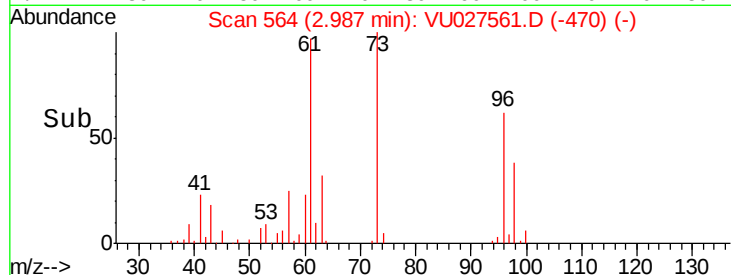
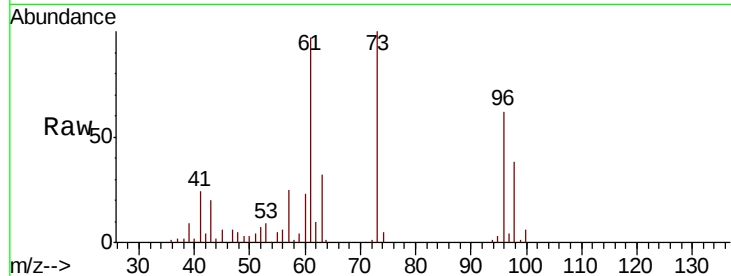
ClientSampleId :

VU1010WBSD02

Tot Ion:	96	Resp:	26601
Ion	Ratio	Lower	Upper
96	100		
61	157.7	129.4	194.2
98	61.0	51.2	76.8

Manual Integrations
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#22

Diisopropyl ether

Concen: 19.272 ug/l

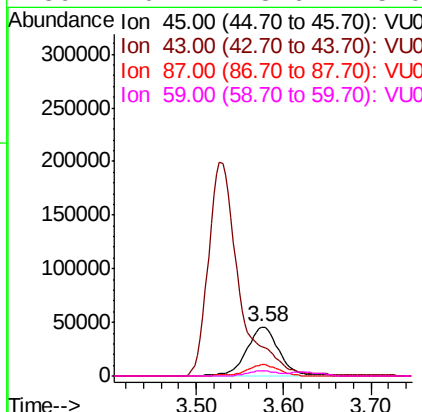
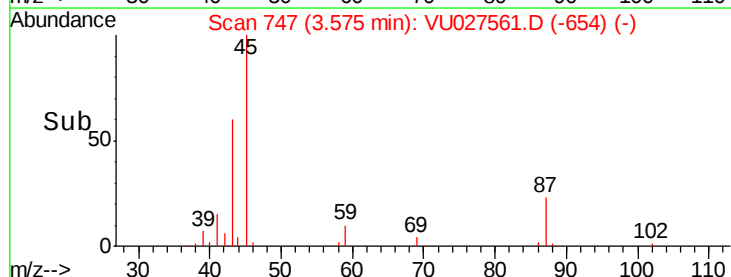
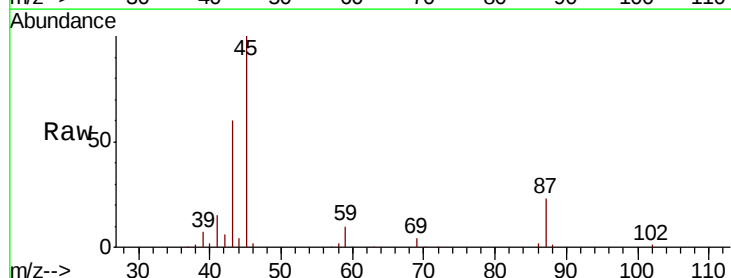
RT: 3.58 min Scan# 747

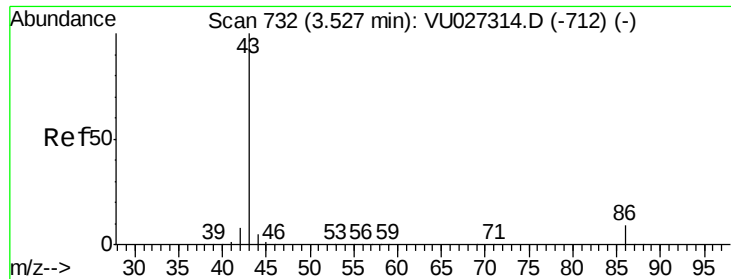
Delta R.T. -0.00 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

Tgt Ion:	45	Resp:	117628
Ion	Ratio	Lower	Upper
45	100		
43	56.4	43.4	65.2
87	22.7	17.5	26.3
59	10.4	8.6	13.0





#23

Vinyl Acetate

Concen: 91.892 ug/l

RT: 3.53 min Scan# 732

Delta R.T. -0.00 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

Instrument :

MSVOA_U

ClientSampleId :

VU1010WBSD02

Tot Ion: 43 Resp: 489814

Ion Ratio Lower Upper

43 100

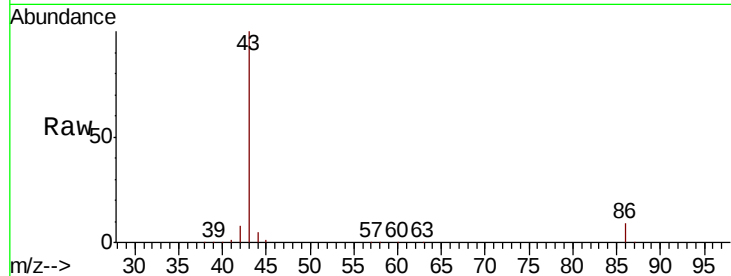
86 8.6 7.0 10.4

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VU027561.D (-639) (-)

Ion 86.00 (85.70 to 86.70): VU027561.D (-639) (-)

200000

150000

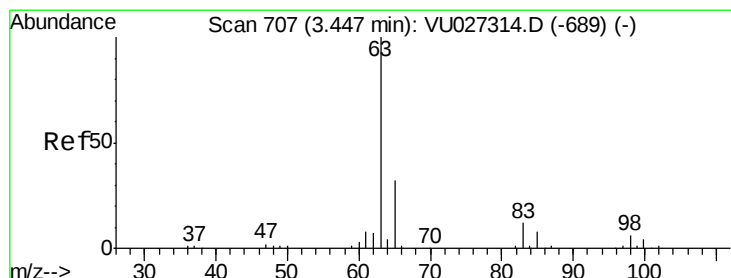
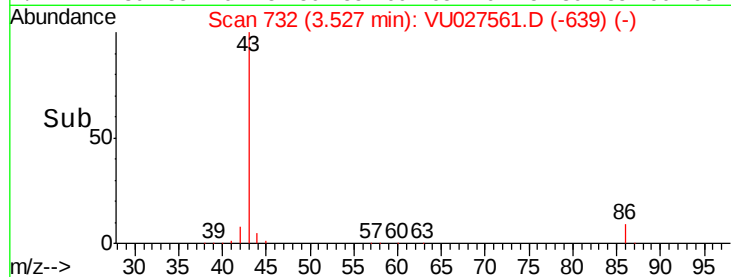
100000

50000

0

3.40 3.50 3.60 3.70

Time-->



#24

1,1-Dichloroethane

Concen: 18.968 ug/l

RT: 3.45 min Scan# 708

Delta R.T. 0.00 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

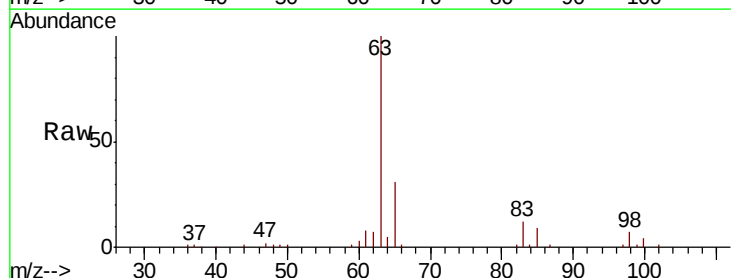
Tgt Ion: 63 Resp: 59516

Ion Ratio Lower Upper

63 100

98 6.8 3.0 9.2

100 4.1 1.8 5.5



Abundance Ion 62.90 (62.60 to 63.60): VU027561.D (-614) (-)

Ion 97.90 (97.60 to 98.60): VU027561.D (-614) (-)

Ion 99.90 (99.60 to 100.60): VU027561.D (-614) (-)

30000

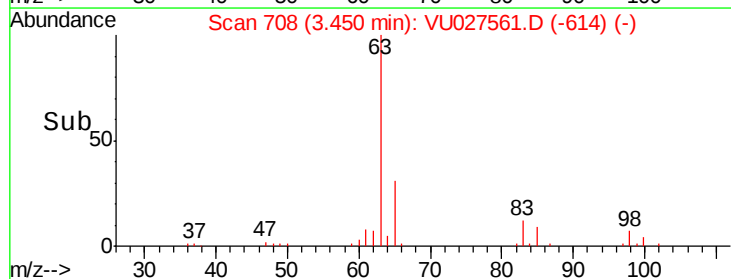
20000

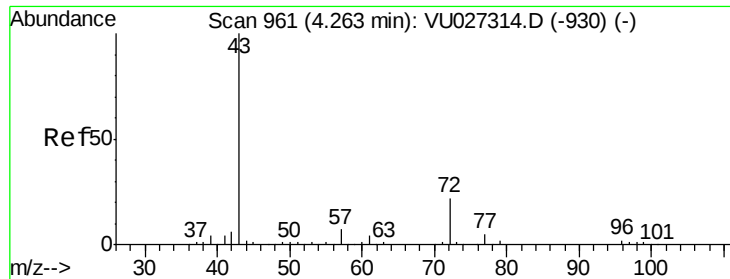
10000

0

3.40 3.50

Time-->





#25

2-Butanone

Concen: 97.569 ug/l

RT: 4.27 min Scan# 962

Delta R.T. 0.00 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

Instrument :

MSVOA_U

ClientSampleId :

VU1010WBSD02

Tot Ion: 43 Resp: 157132

Ion Ratio Lower Upper

43 100

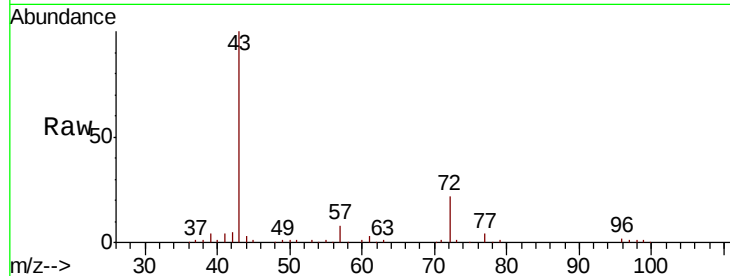
72 22.4 17.8 26.6

Manual Integrations

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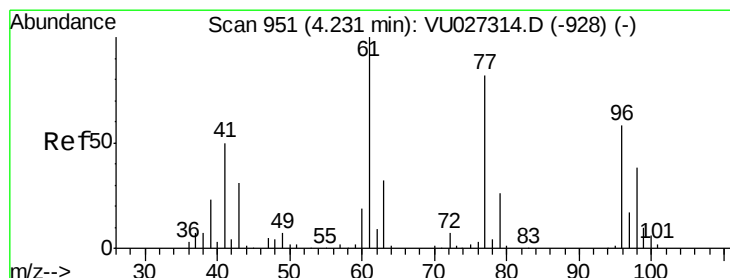
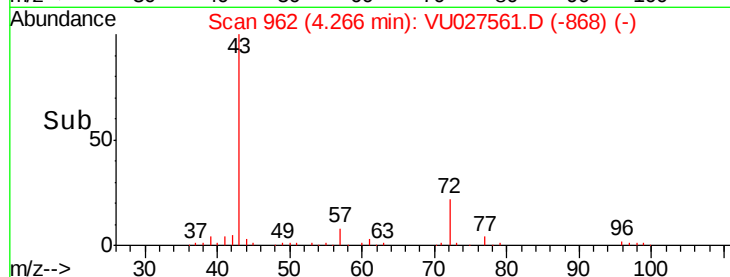
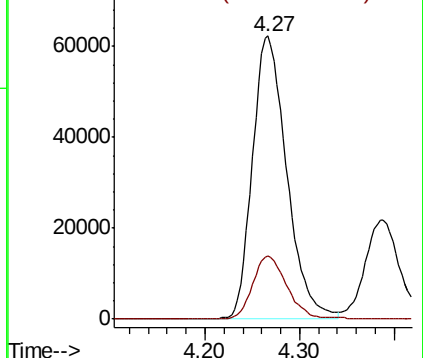
MMDadoda

10/11/2018 9:02:12 AM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0



#26

2,2-Dichloropropane

Concen: 18.058 ug/l

RT: 4.23 min Scan# 951

Delta R.T. -0.00 min

Lab File: VU027561.D

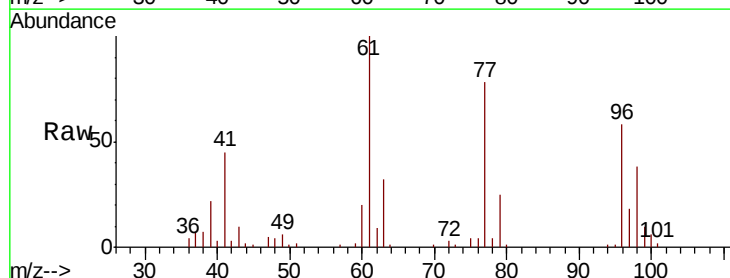
Acq: 10 Oct 2018 10:47

Tgt Ion: 77 Resp: 46559

Ion Ratio Lower Upper

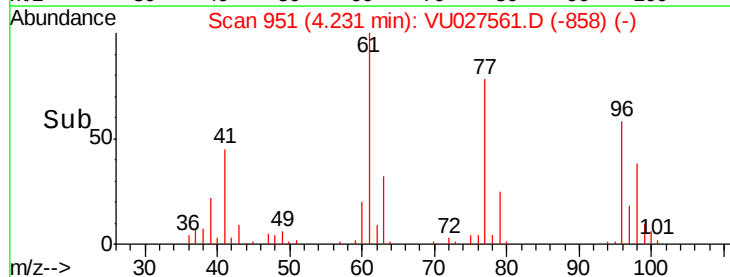
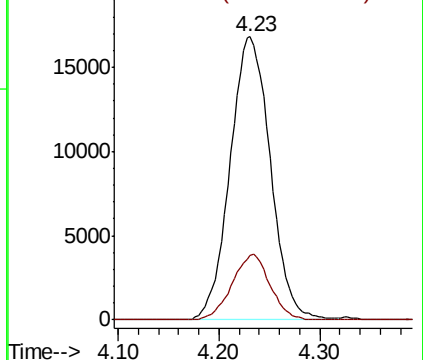
77 100

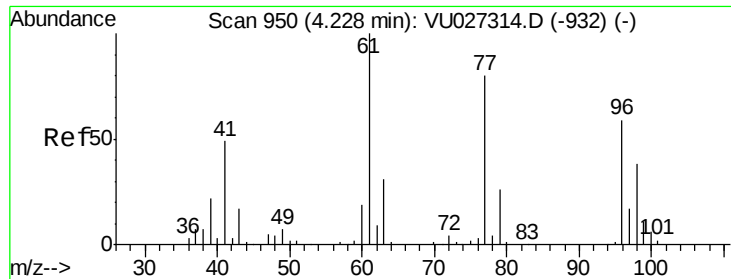
97 21.6 10.4 31.1



Abundance Ion 76.90 (76.60 to 77.60): VU0

Ion 96.90 (96.60 to 97.60): VU0





#27

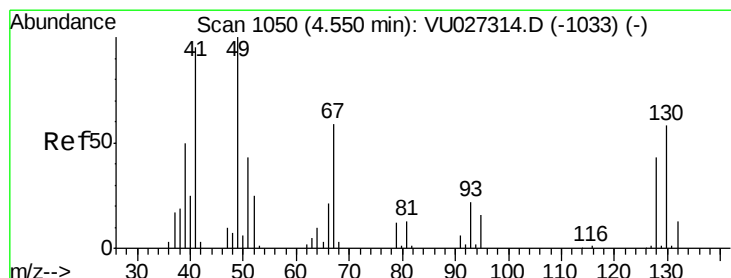
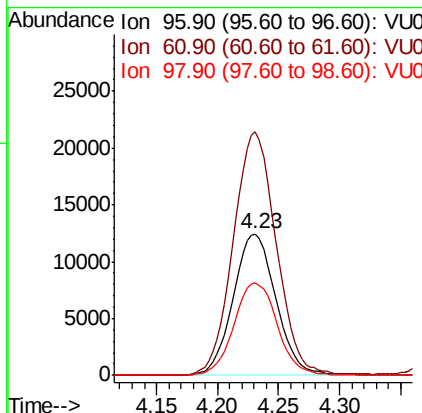
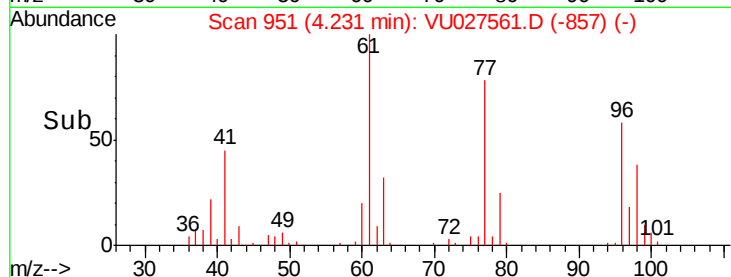
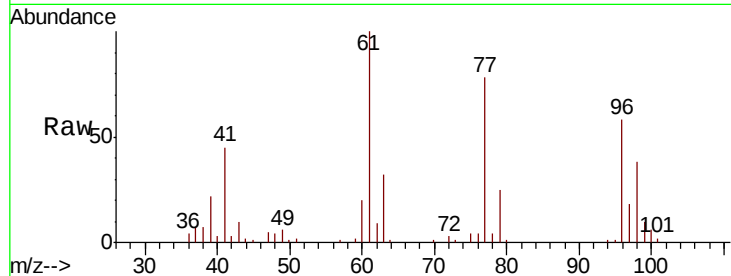
cis-1,2-Dichloroethene
Concen: 18.593 ug/l
RT: 4.23 min Scan# 951
Delta R.T. 0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VU1010WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	172.8	0.0	343.8	
98	65.8	0.0	129.0	

Manual Integrations
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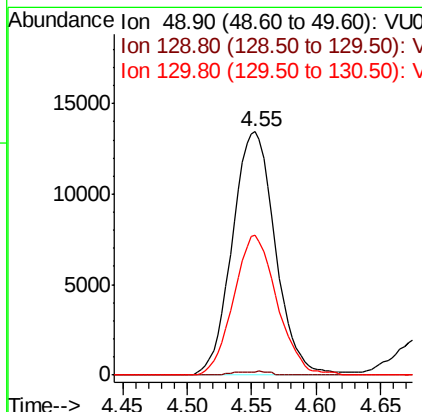
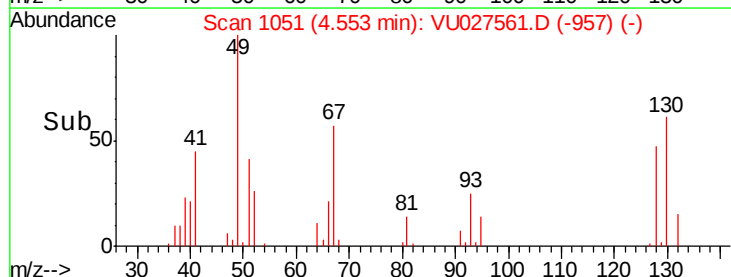
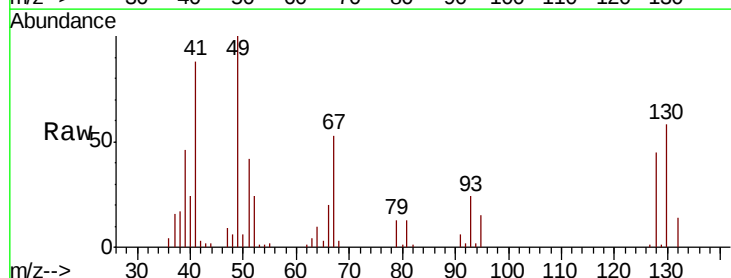
MMDadoda
10/11/2018 9:02:12 AM

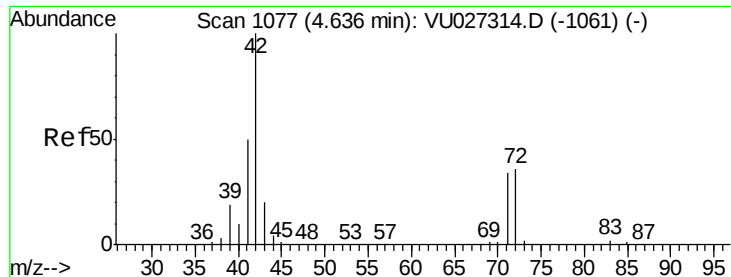


#28

Bromochloromethane
Concen: 20.598 ug/l
RT: 4.55 min Scan# 1051
Delta R.T. 0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.2	0.0	3.0	
130	58.0	46.1	69.1	





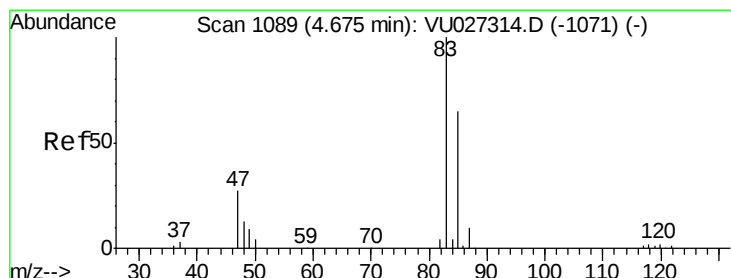
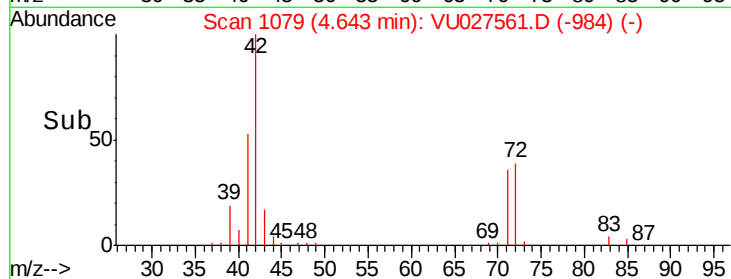
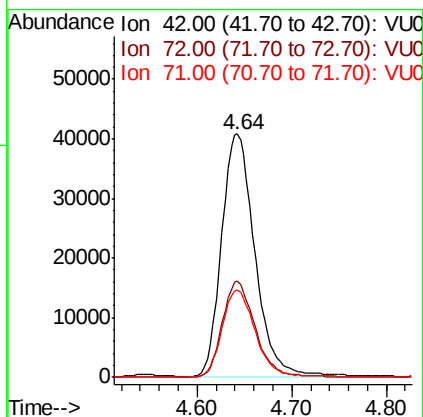
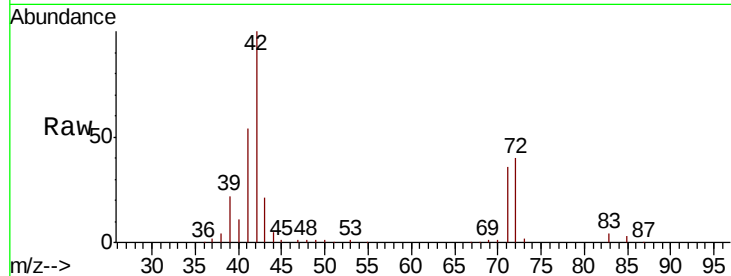
#29
Tetrahydrofuran
Concen: 99.075 ug/l
RT: 4.64 min Scan# 1079
Delta R.T. 0.01 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VU1010WBSD02

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.7	30.1	45.1
71	35.6	27.7	41.5

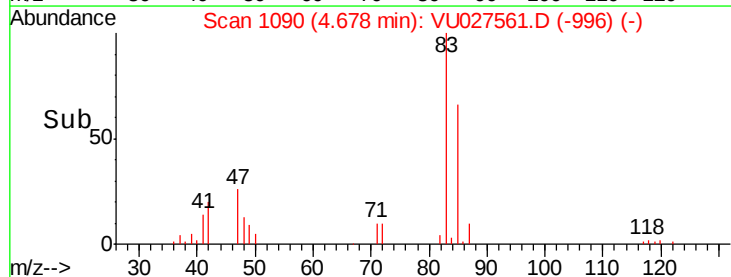
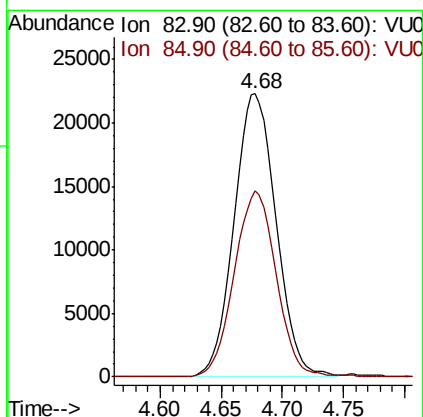
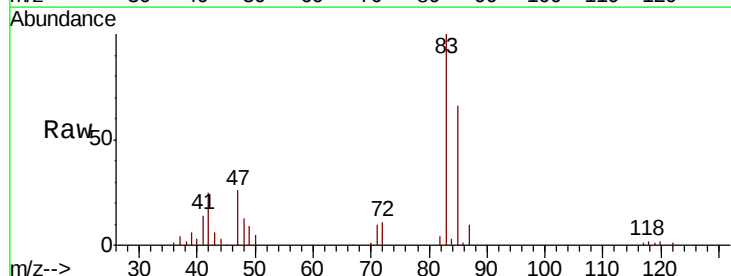
Manual Integrations
APPROVED

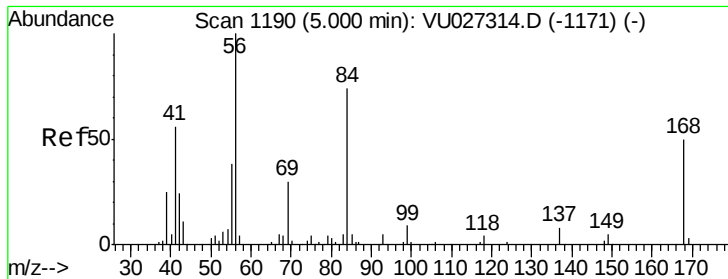
MMDadoda
10/11/2018 9:02:12 AM



#30
Chloroform
Concen: 19.082 ug/l
RT: 4.68 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.6	51.8	77.6





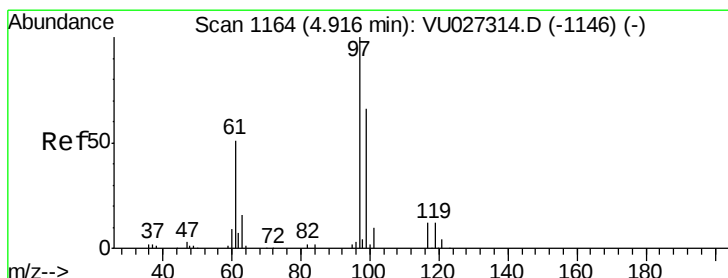
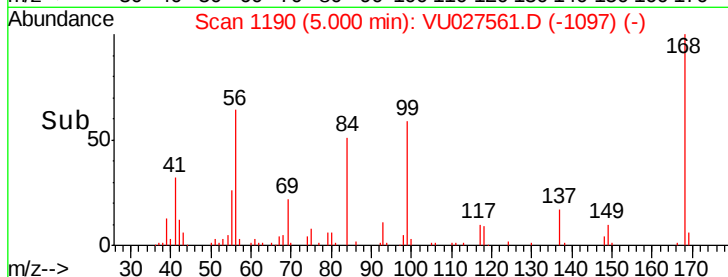
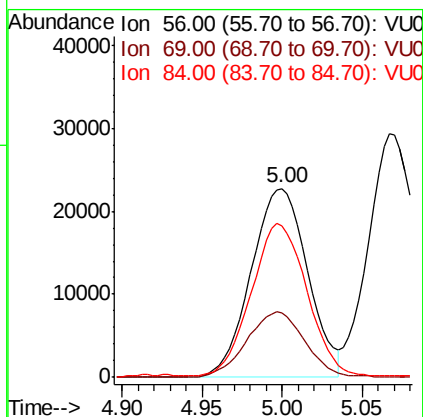
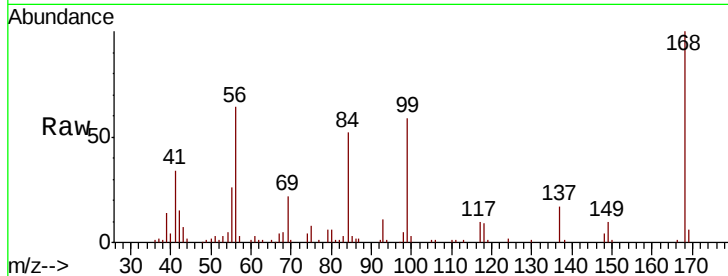
#31
Cyclohexane
Concen: 17.171 ug/l
RT: 5.00 min Scan# 1190
Delta R.T. 0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VU1010WBSD02

Tot Ion	Ratio	Lower	Upper
56	100		
69	34.0	24.1	36.1
84	79.9	59.1	88.7

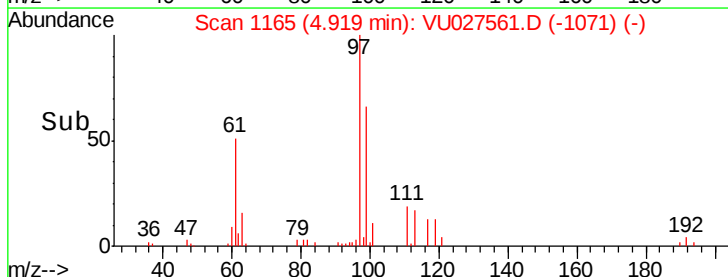
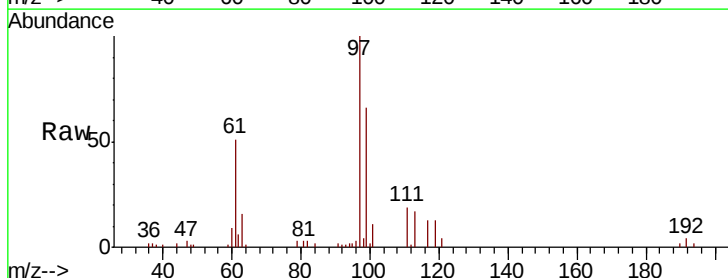
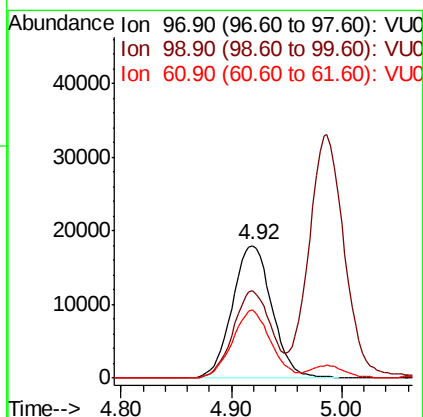
Manual Integrations
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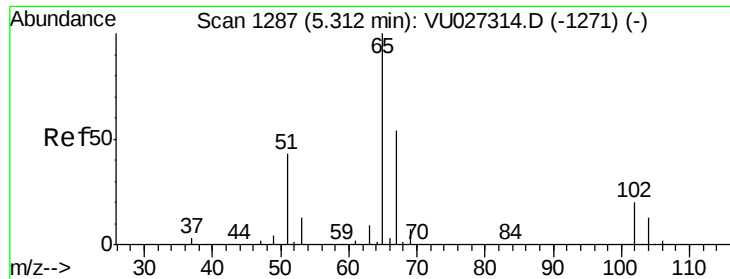
MMDadoda
10/11/2018 9:02:12 AM



#32
1,1,1-Trichloroethane
Concen: 19.133 ug/l
RT: 4.92 min Scan# 1165
Delta R.T. 0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.6	51.1	76.7
61	49.2	39.6	59.4





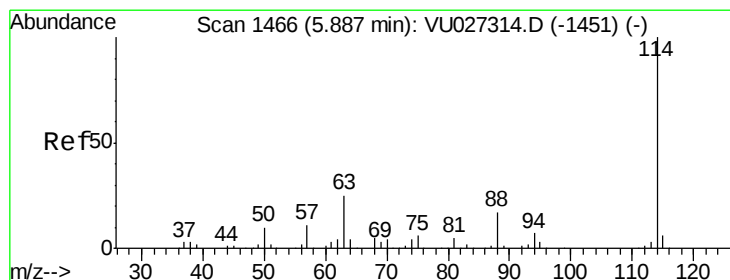
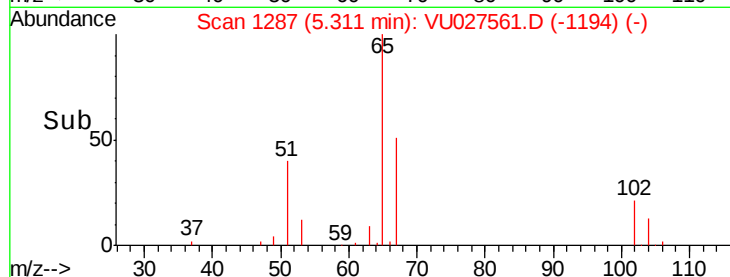
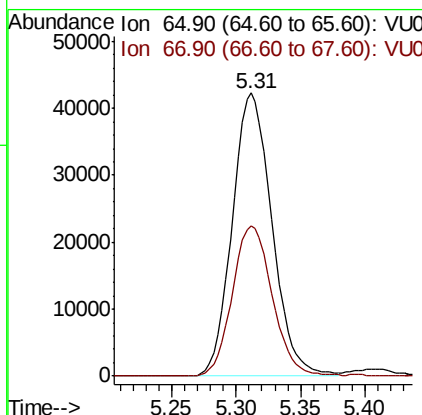
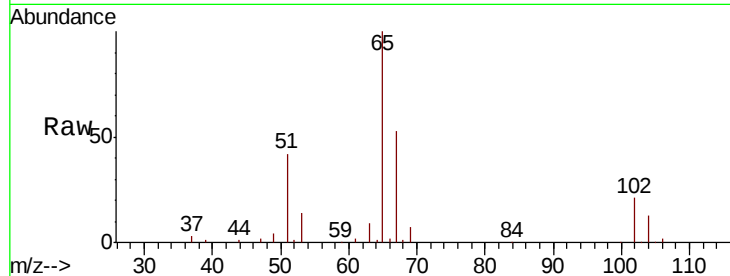
#33
 1,2-Dichloroethane-d4
 Concen: 45.342 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. 0.00 min
 Lab File: VU027561.D
 Acq: 10 Oct 2018 10:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1010WBSD02

Tot Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	107.8

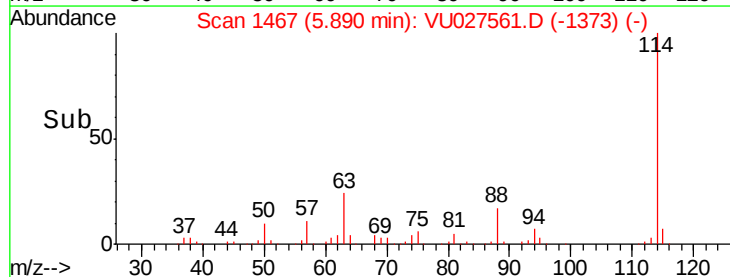
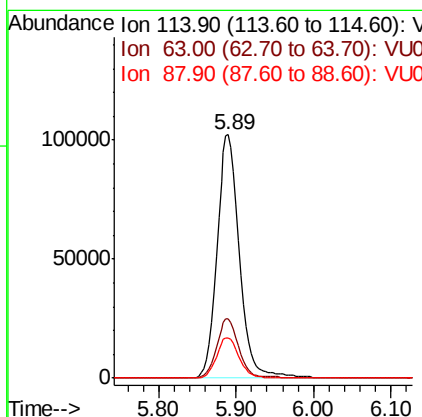
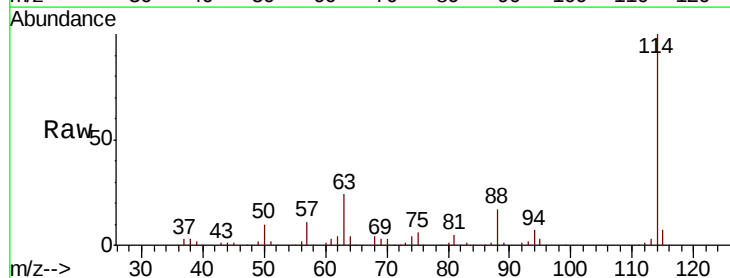
Manual Integrations
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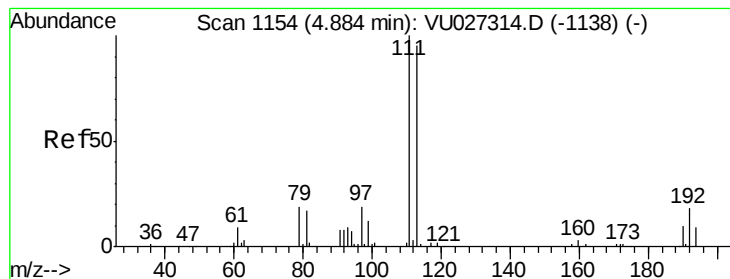
MMDadoda
 10/11/2018 9:02:12 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: VU027561.D
 Acq: 10 Oct 2018 10:47

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.3	0.0	50.2
88	16.6	0.0	33.8





#35

Dibromofluoromethane

Concen: 46.526 ug/l

RT: 4.88 min Scan# 1154

Delta R.T. 0.00 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

Instrument :

MSVOA_U

ClientSampleId :

VU1010WBSD02

Tot Ion:113 Resp: 66265

Ion Ratio Lower Upper

113 100

111 103.4 83.1 124.7

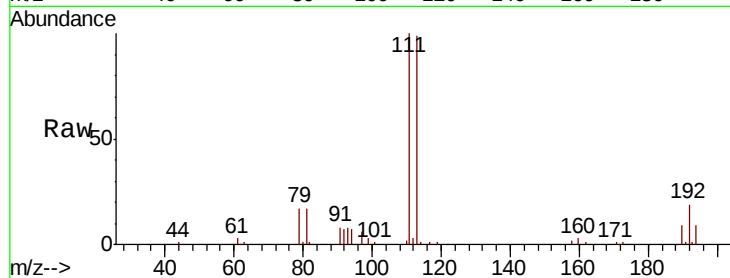
192 19.4 15.4 23.0

Manual Integrations

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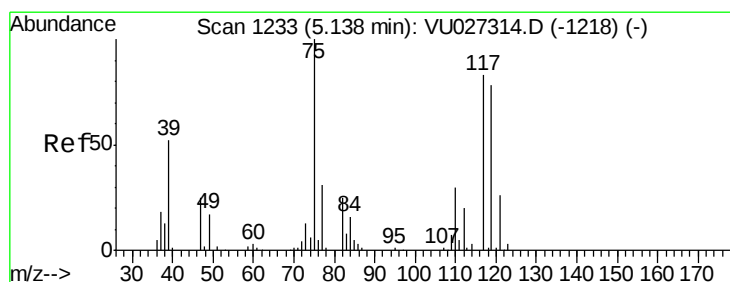
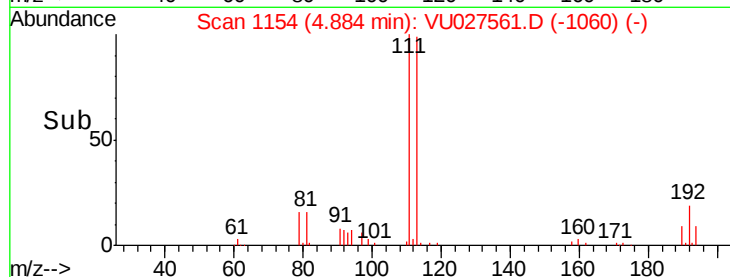
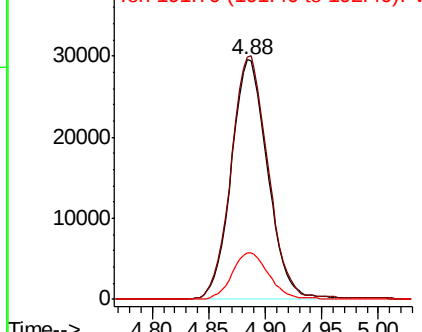


Abundance

Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 17.416 ug/l

RT: 5.14 min Scan# 1233

Delta R.T. -0.00 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

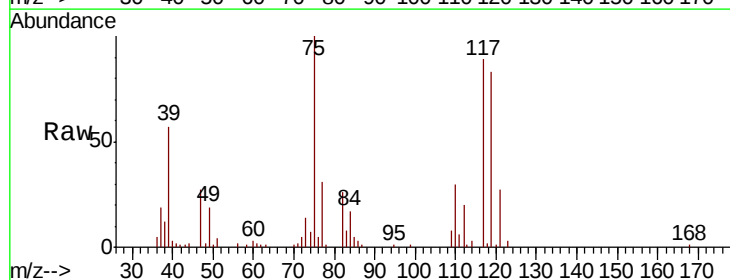
Tgt Ion: 75 Resp: 39298

Ion Ratio Lower Upper

75 100

110 30.7 15.5 46.5

77 31.0 25.4 38.0

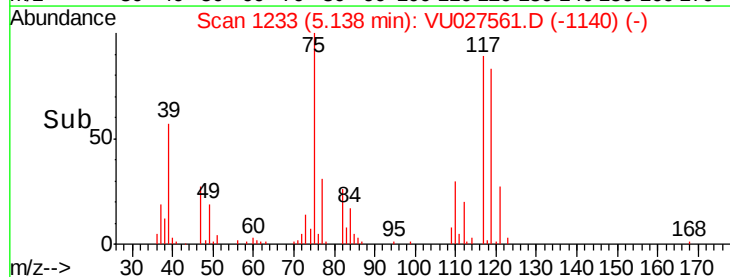
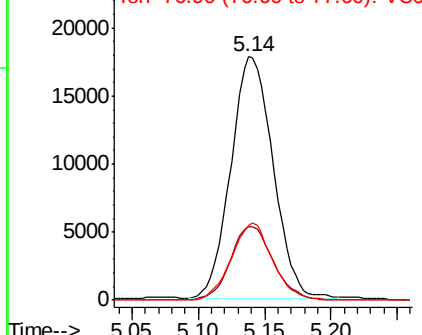


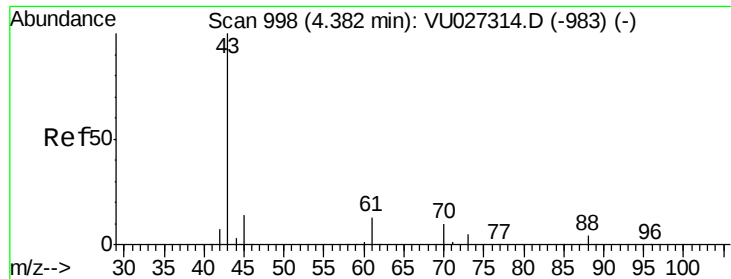
Abundance

Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





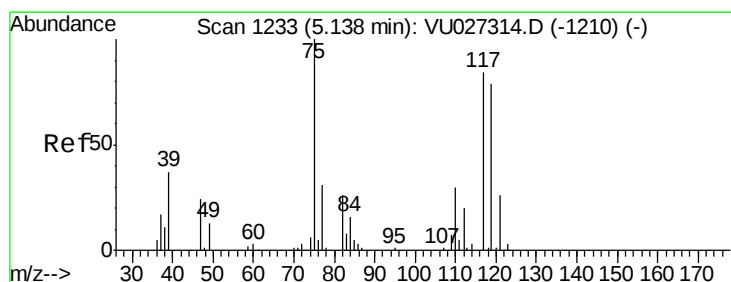
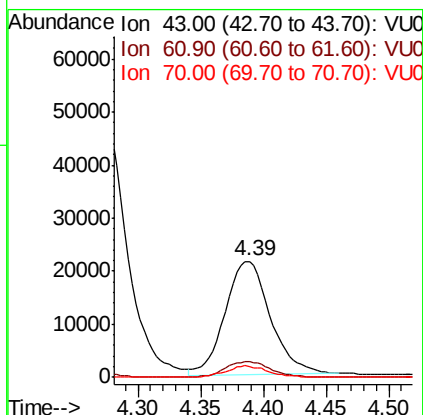
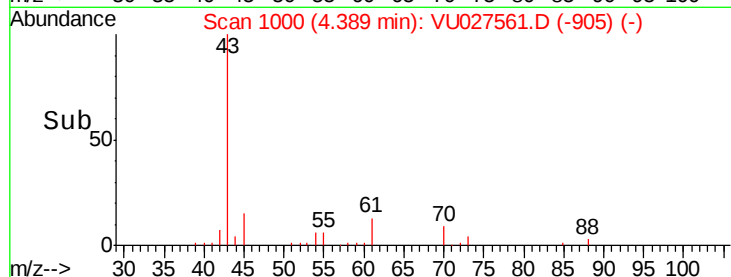
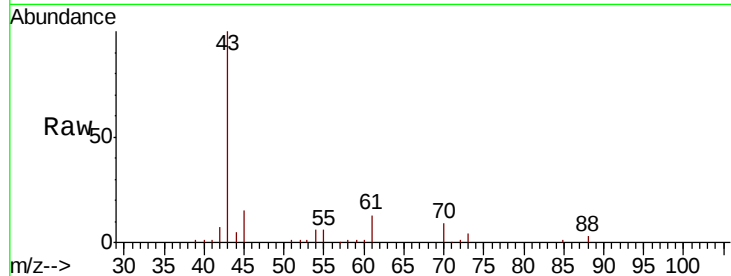
#37
Ethyl Acetate
Concen: 18.349 ug/l
RT: 4.39 min Scan# 1000
Delta R.T. 0.01 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VU1010WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.2	10.7	16.1
70	9.4	7.4	11.2

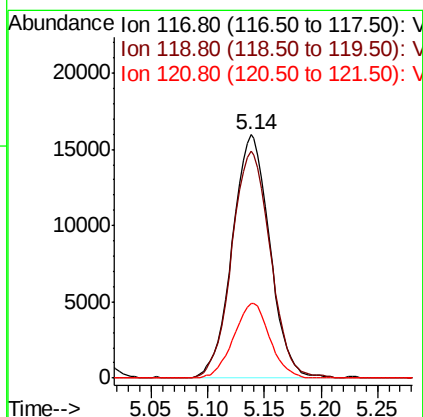
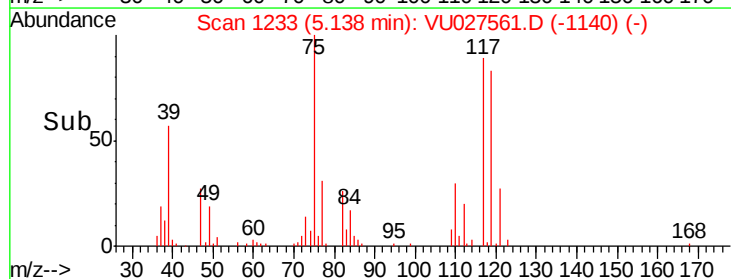
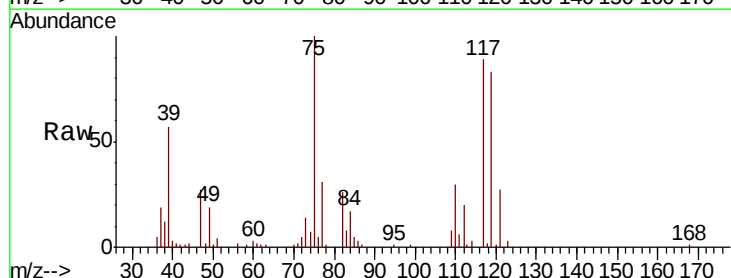
Manual Integrations
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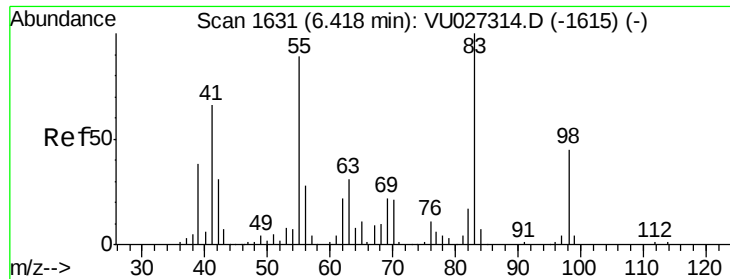
MMDadoda
10/11/2018 9:02:12 AM



#38
Carbon Tetrachloride
Concen: 18.063 ug/l
RT: 5.14 min Scan# 1233
Delta R.T. -0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.4	74.5	111.7
121	30.5	24.6	37.0





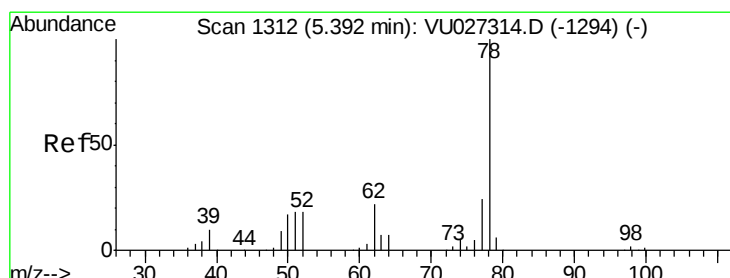
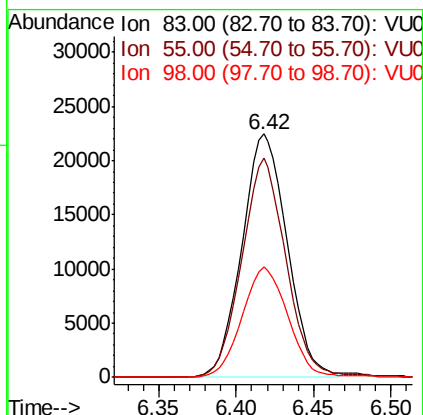
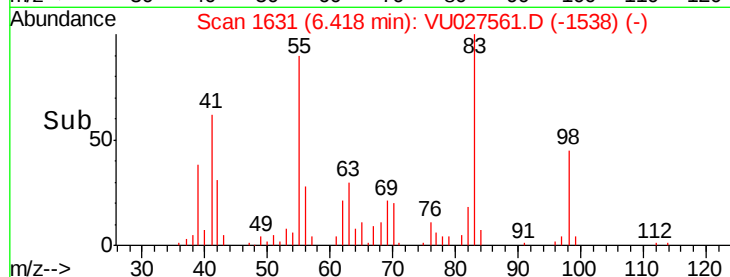
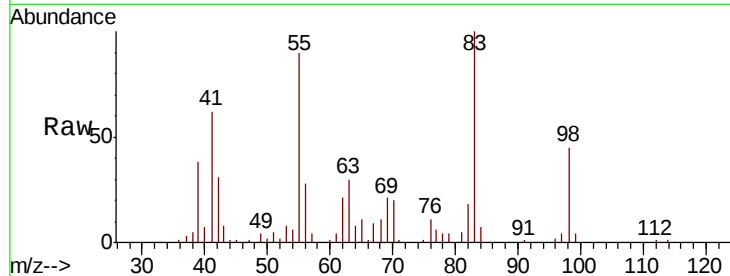
#39
Methvlcvclohexane
Concen: 17.380 ug/l
RT: 6.42 min Scan# 1631
Delta R.T. -0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VU1010WBSD02

Tot Ion	Ratio	Lower	Upper
83	100		
55	90.1	71.1	106.7
98	45.1	36.3	54.5

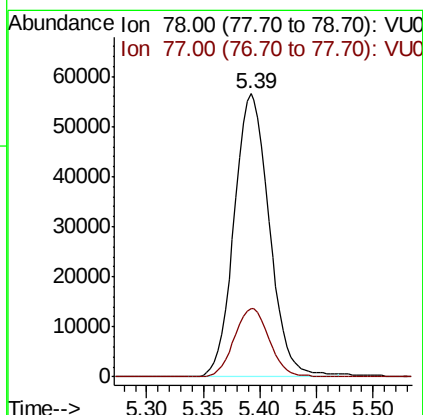
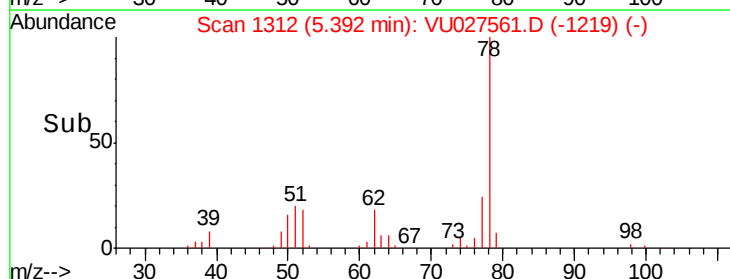
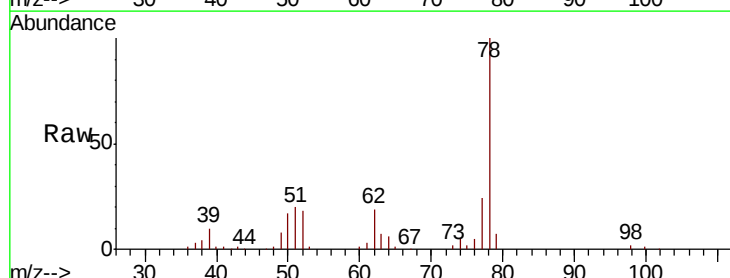
Manual Integrations
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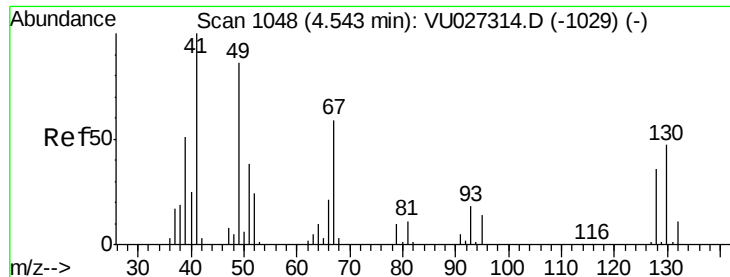
MMDadoda
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#40
Benzene
Concen: 18.650 ug/l
RT: 5.39 min Scan# 1312
Delta R.T. -0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.3	28.9





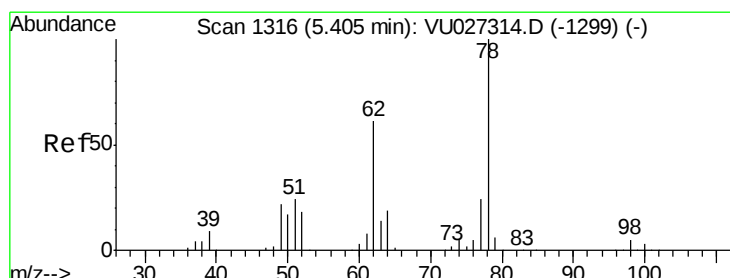
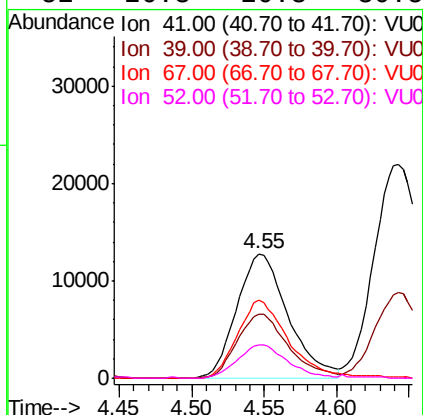
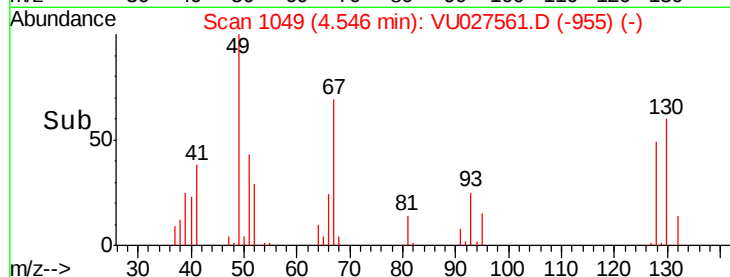
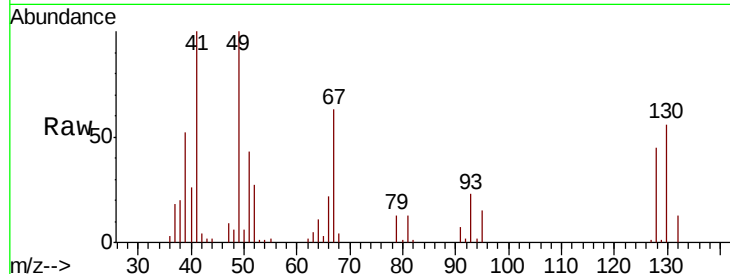
#41
Methacrylonitrile
Concen: 19.019 ug/l
RT: 4.55 min Scan# 1049
Delta R.T. 0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VU1010WBSD02

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	51.5	41.1	61.7	
67	61.9	50.4	75.6	
52	26.3	20.3	30.5	

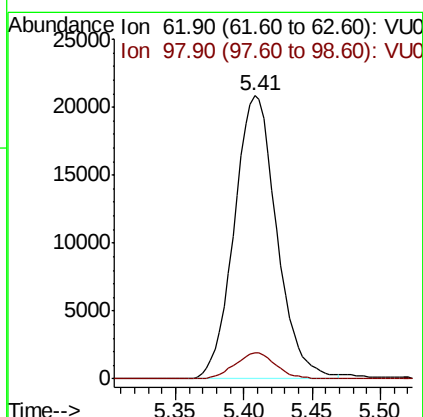
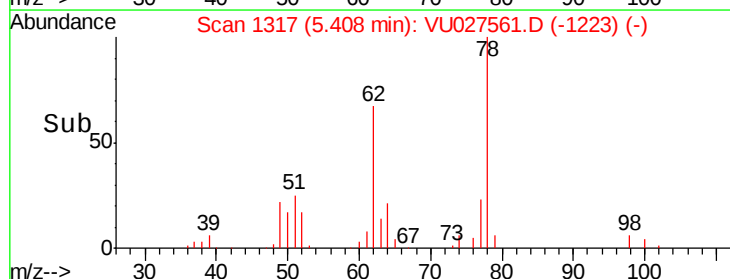
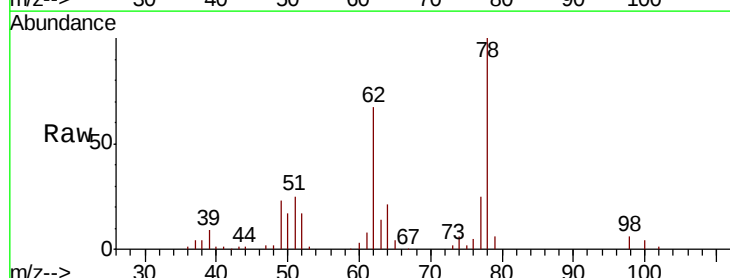
Manual Integrations
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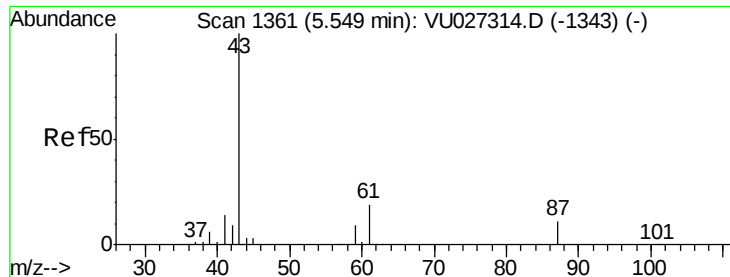
MMDadoda
10/11/2018 9:02:12 AM



#42
1,2-Dichloroethane
Concen: 18.493 ug/l
RT: 5.41 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.8	0.0	16.8	





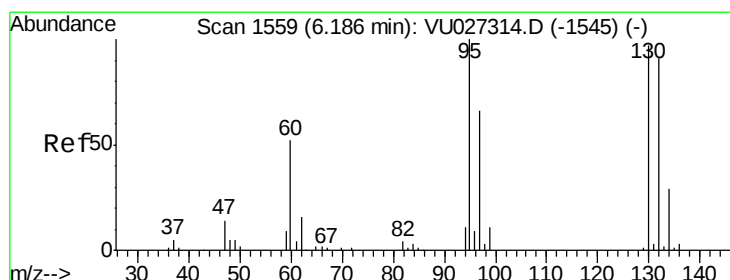
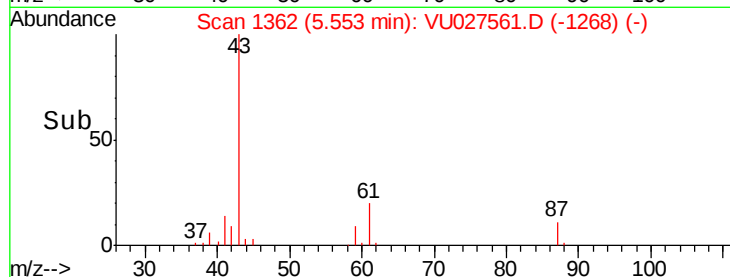
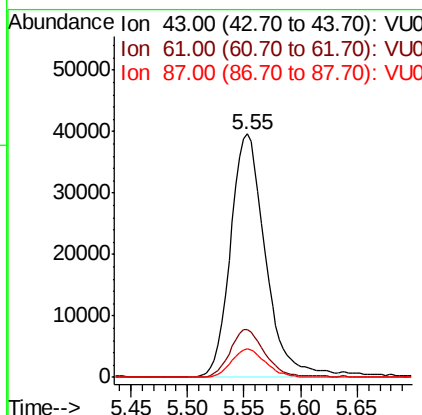
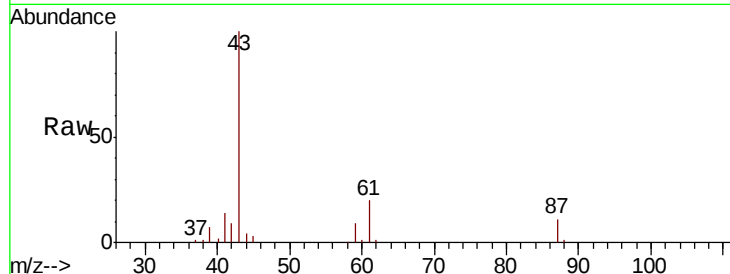
#43
Isopropyl Acetate
Concen: 18.882 ug/l
RT: 5.55 min Scan# 1362
Delta R.T. 0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VU1010WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
61	19.7	15.3	22.9
87	11.3	8.6	13.0

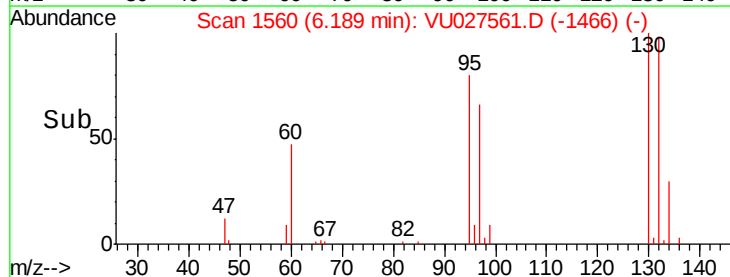
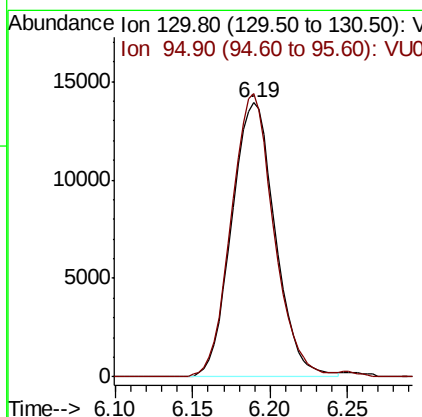
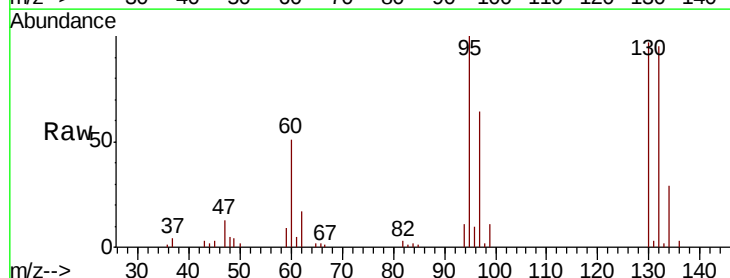
Manual Integrations
APPROVED

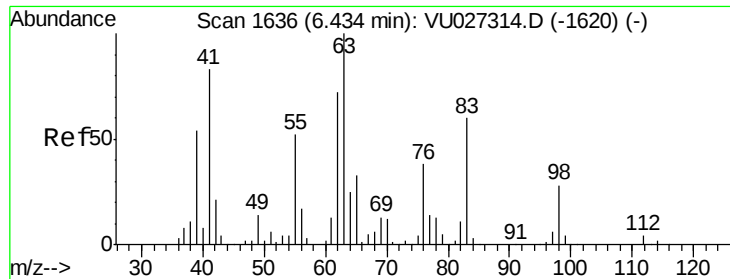
MMDadoda
10/11/2018 9:02:12 AM



#44
Trichloroethene
Concen: 18.549 ug/l
RT: 6.19 min Scan# 1560
Delta R.T. 0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Tgt Ion	Ratio	Lower	Upper
130	100		
95	103.4	0.0	207.0





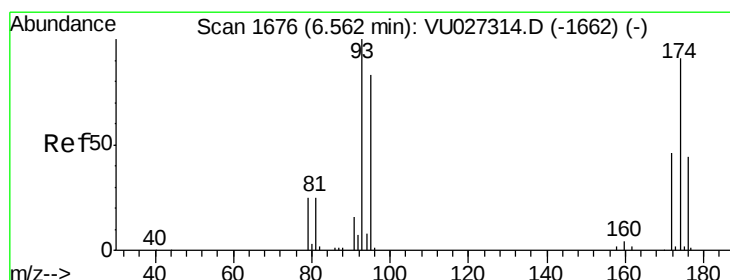
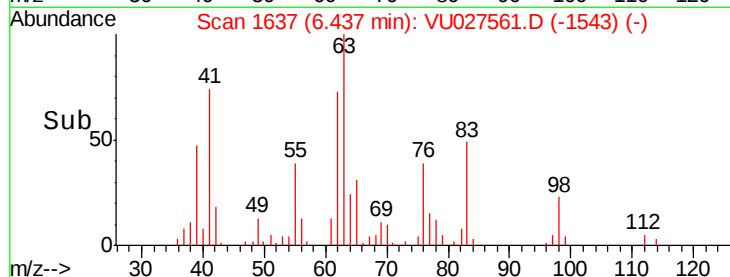
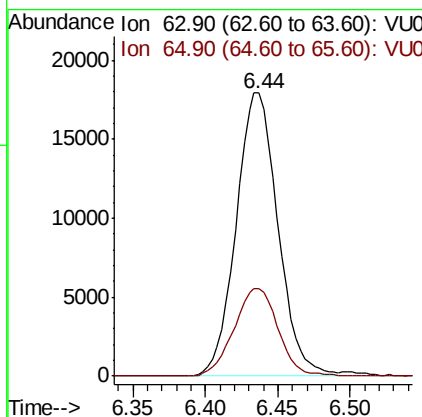
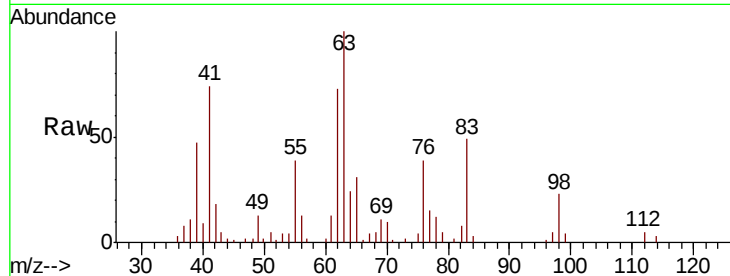
#45
 1,2-Dichloropropane
 Concen: 18.994 ug/l
 RT: 6.44 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VU027561.D
 Acq: 10 Oct 2018 10:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1010WBSD02

Tot Ion: 63 Resp: 36009
 Ion Ratio Lower Upper
 63 100
 65 31.0 26.0 39.0

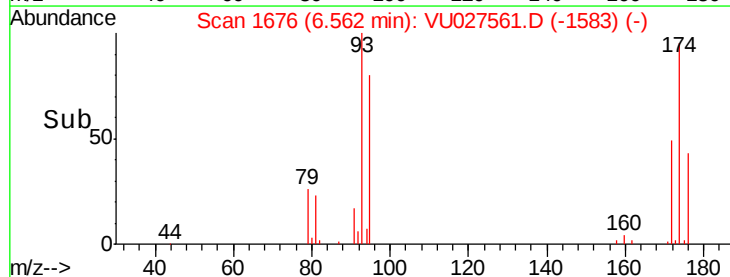
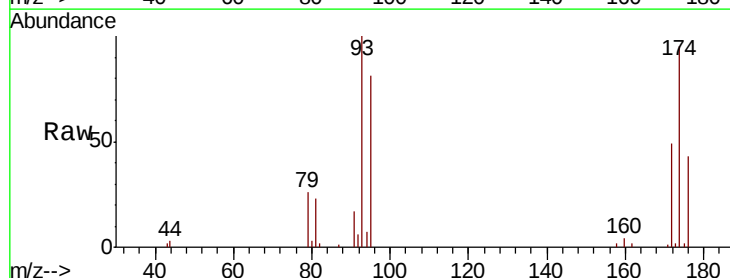
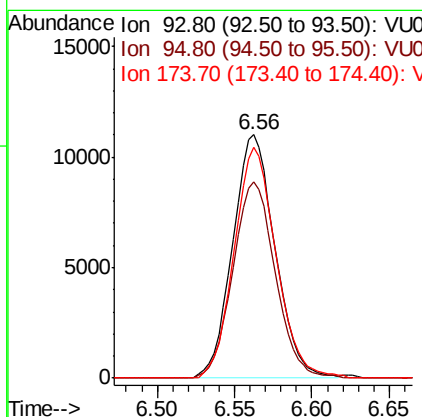
Manual Integrations
 APPROVED

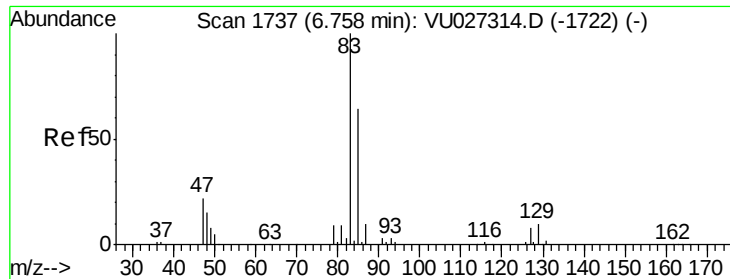
MMDadoda
 10/11/2018 9:02:12 AM



#46
 Dibromomethane
 Concen: 19.569 ug/l
 RT: 6.56 min Scan# 1676
 Delta R.T. -0.00 min
 Lab File: VU027561.D
 Acq: 10 Oct 2018 10:47

Tgt Ion: 93 Resp: 20953
 Ion Ratio Lower Upper
 93 100
 95 80.7 66.5 99.7
 174 93.8 72.5 108.7





#47

Bromodichloromethane

Concen: 18.515 ug/l

RT: 6.76 min Scan# 1737

Delta R.T. -0.00 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

Instrument :

MSVOA_U

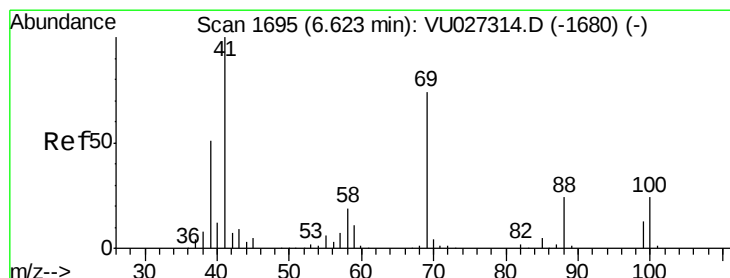
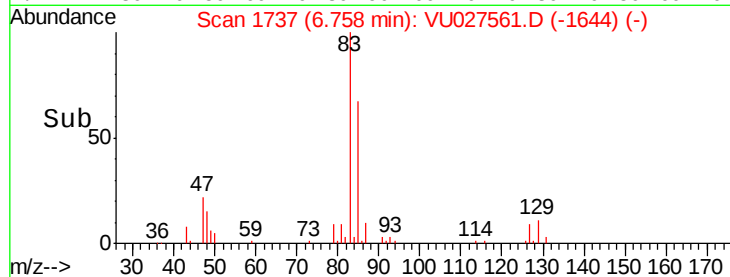
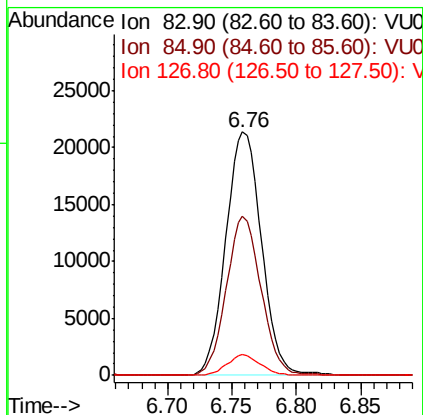
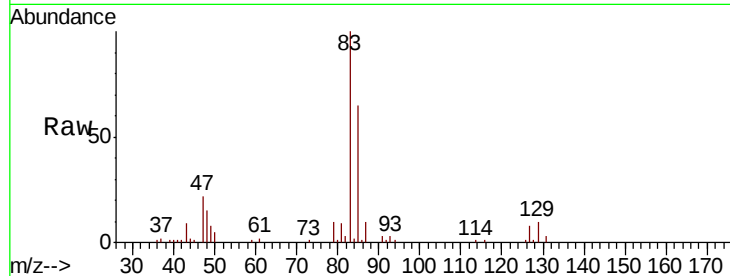
ClientSampleId :

VU1010WBSD02

Tot Ion:	83	Resp:	41135
Ion	Ratio	Lower	Upper
83	100		
85	65.4	51.4	77.0
127	8.5	6.3	9.5

Manual Integrations
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10/11/2018 9:02:12 AM



#48

Methyl methacrylate

Concen: 18.703 ug/l

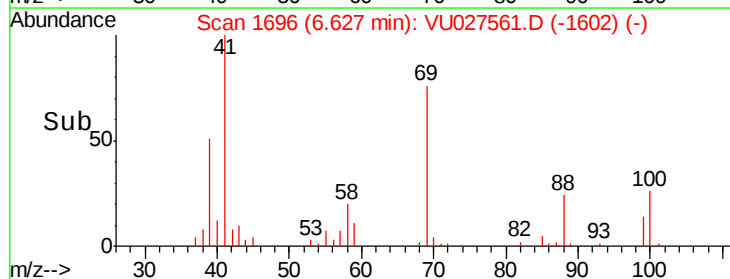
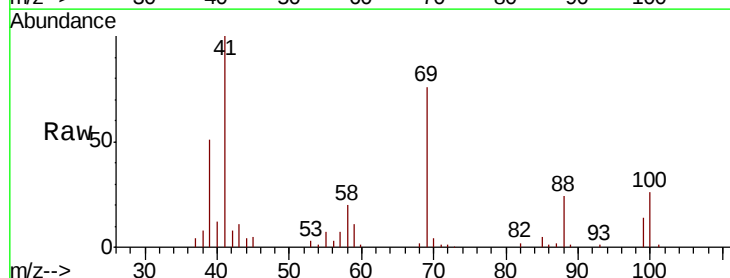
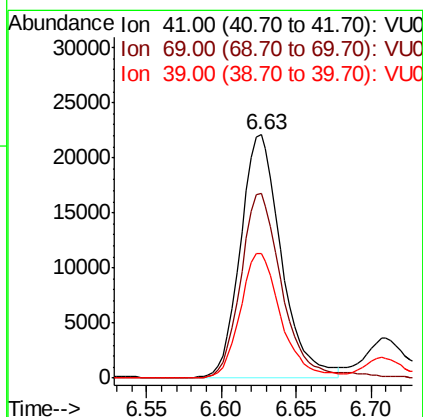
RT: 6.63 min Scan# 1696

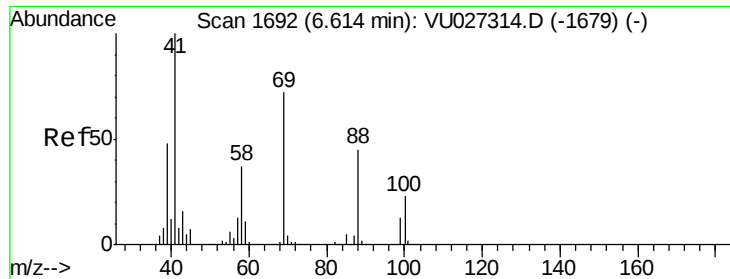
Delta R.T. 0.00 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

Tgt Ion:	41	Resp:	42125
Ion	Ratio	Lower	Upper
41	100		
69	77.0	61.0	91.4
39	51.0	39.9	59.9





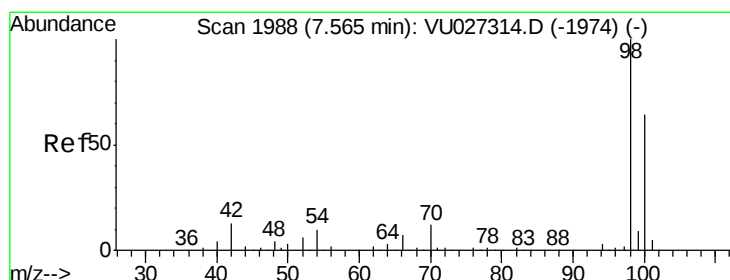
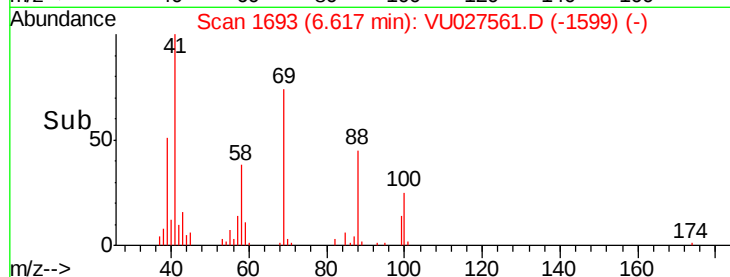
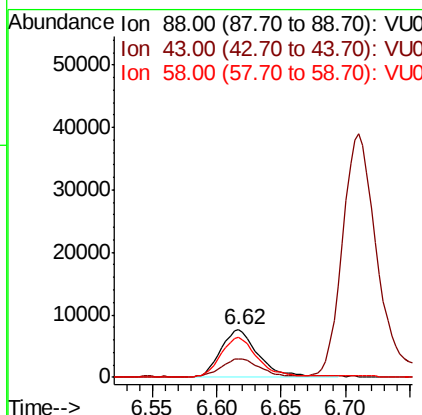
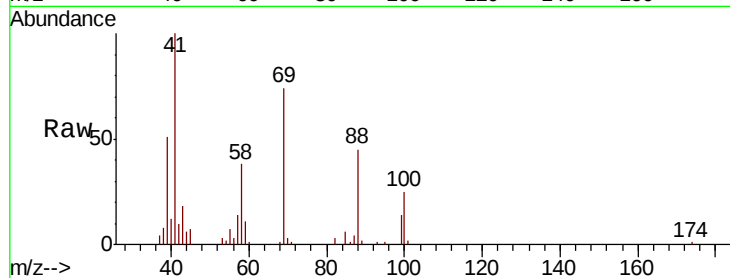
#49
1,4-Dioxane
Concen: 403.763 ug/l
RT: 6.62 min Scan# 1693
Delta R.T. 0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VU1010WBSD02

Tot Ion	Ratio	Lower	Upper
88	100		
43	37.3	30.8	46.2
58	82.8	67.0	100.6

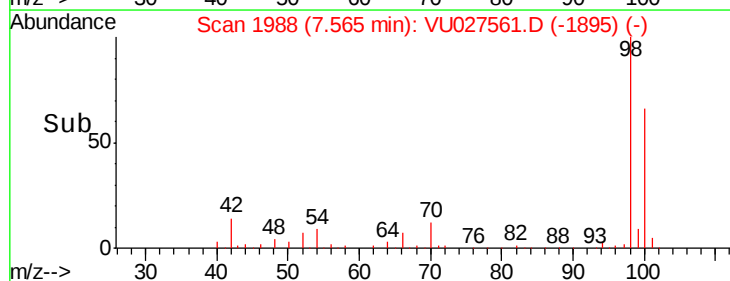
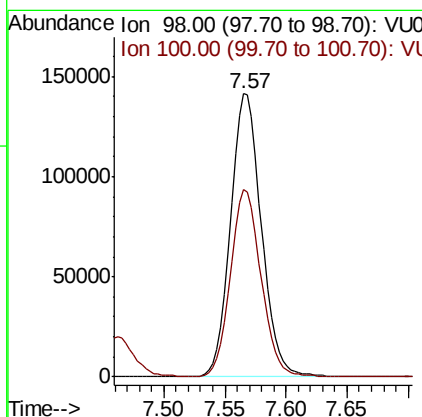
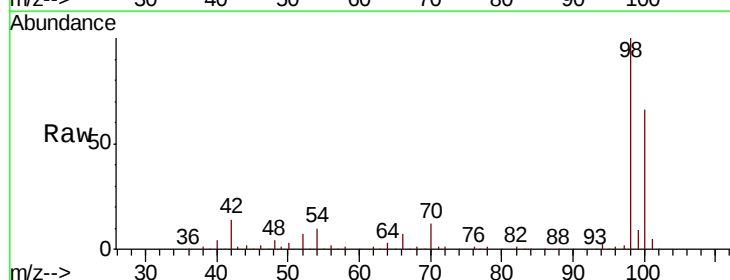
Manual Integrations
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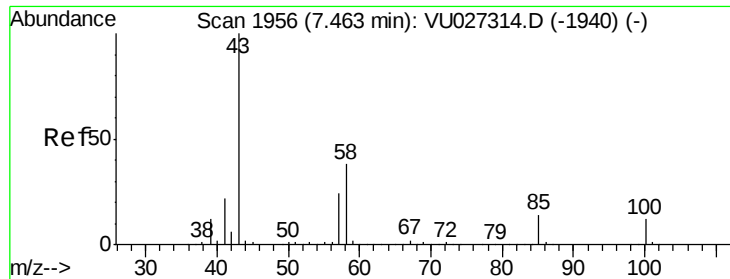
MMDadoda
10/11/2018 9:02:12 AM



#50
Toluene-d8
Concen: 46.820 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.6	52.1	78.1





#51

4-Methyl-2-Pentanone

Concen: 97.192 ug/l

RT: 7.46 min Scan# 1956

Delta R.T. -0.00 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

Instrument :

MSVOA_U

ClientSampleId :

VU1010WBSD02

Tot Ion: 43 Resp: 286049

Ion Ratio Lower Upper

43 100

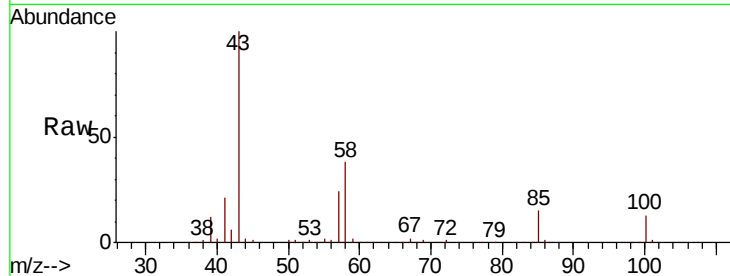
58 37.7 29.8 44.8

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VU027314.D (-1940) (-)

Ion 58.00 (57.70 to 58.70): VU027314.D (-1940) (-)

7.46

150000

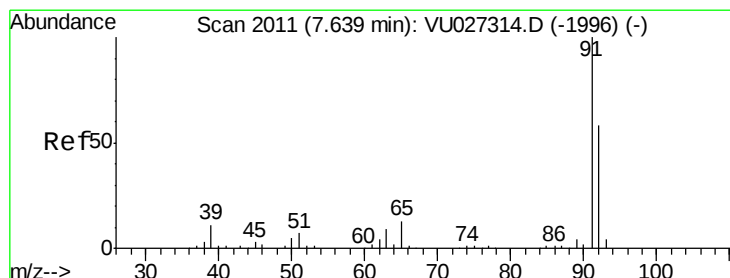
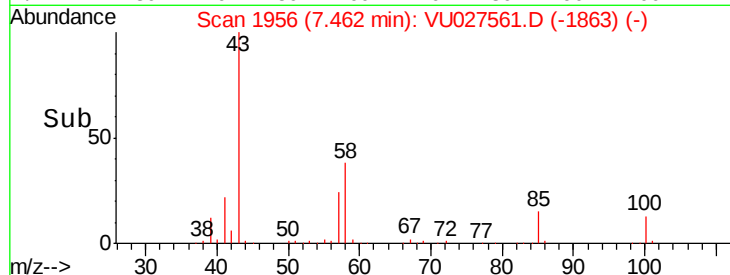
100000

50000

0

7.40 7.50 7.60

Time-->



#52

Toluene

Concen: 18.409 ug/l

RT: 7.64 min Scan# 2011

Delta R.T. -0.00 min

Lab File: VU027561.D

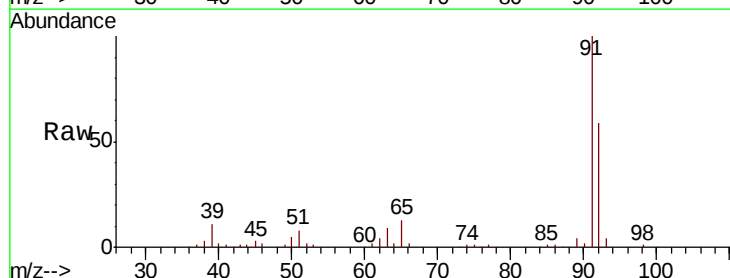
Acq: 10 Oct 2018 10:47

Tgt Ion: 92 Resp: 71617

Ion Ratio Lower Upper

92 100

91 172.0 138.6 208.0



Abundance Ion 92.00 (91.70 to 92.70): VU027314.D (-1996) (-)

Ion 91.00 (90.70 to 91.70): VU027314.D (-1996) (-)

7.64

80000

60000

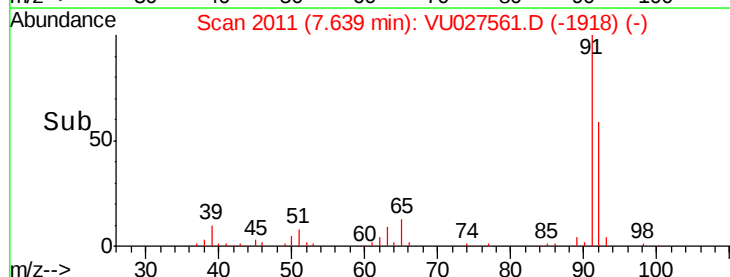
40000

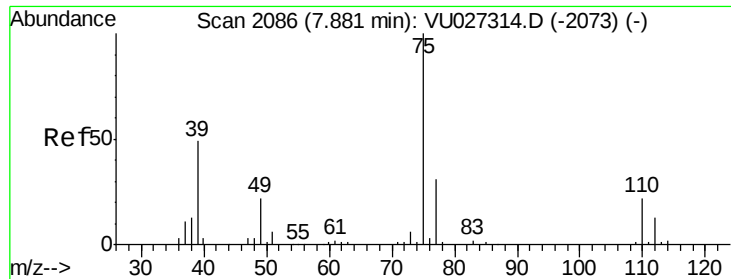
20000

0

7.55 7.60 7.65 7.70 7.75

Time-->





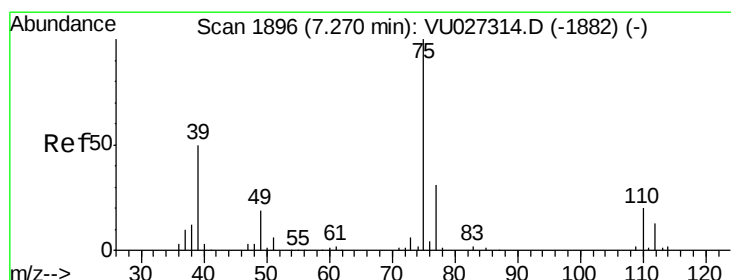
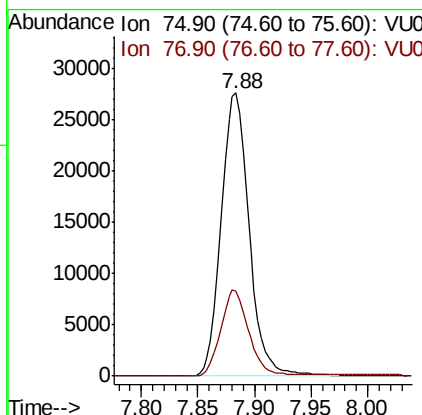
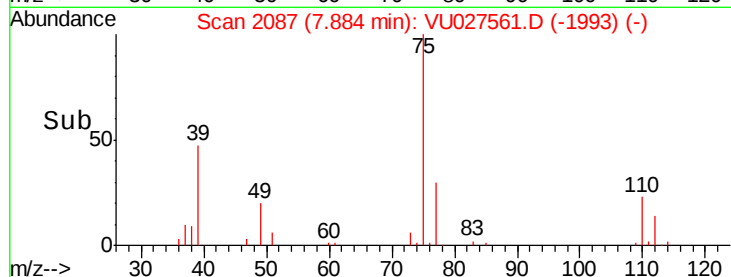
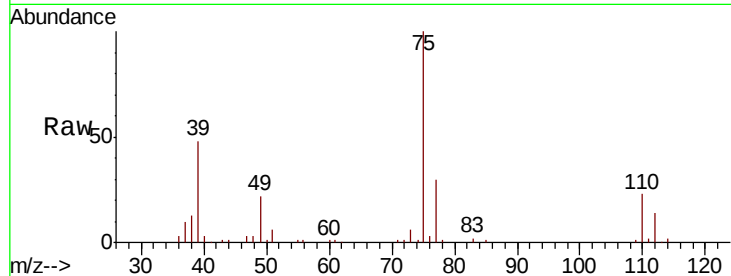
#53
 t-1,3-Dichloropropene
 Concen: 18.270 ug/l
 RT: 7.88 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VU027561.D
 Acq: 10 Oct 2018 10:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1010WBSD02

Tot Ion: 75 Resp: 47593
 Ion Ratio Lower Upper
 75 100
 77 29.8 25.0 37.6

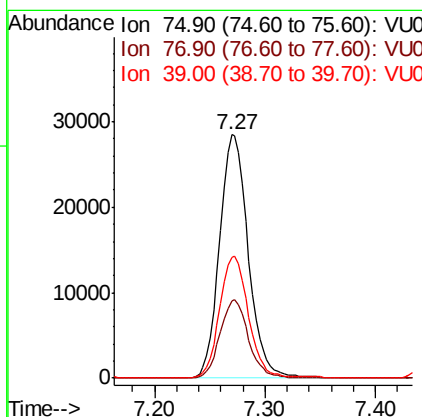
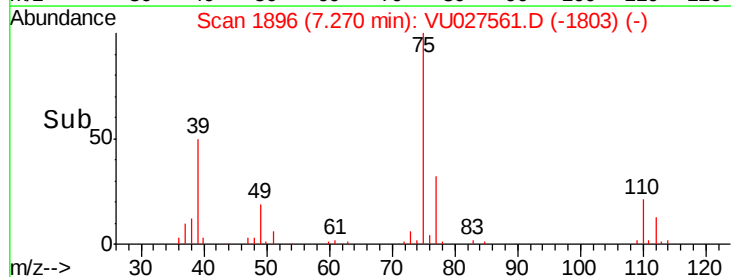
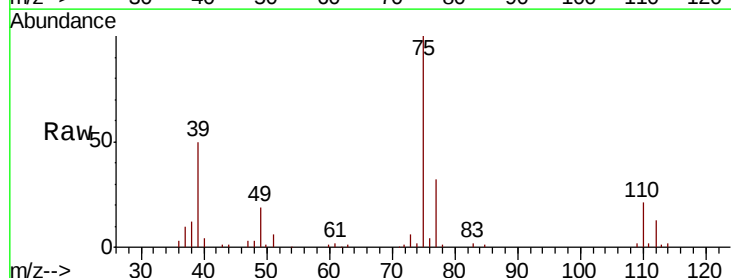
Manual Integrations
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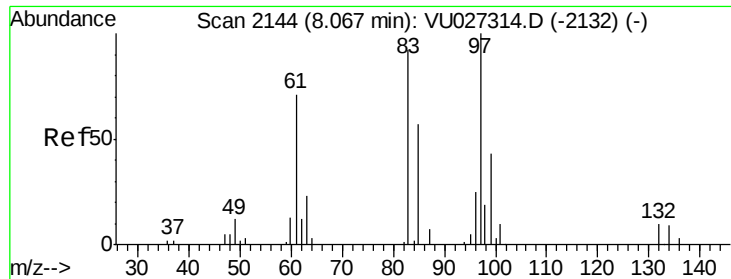
MMDadoda
 10/11/2018 9:02:12 AM



#54
 cis-1,3-Dichloropropene
 Concen: 18.369 ug/l
 RT: 7.27 min Scan# 1896
 Delta R.T. -0.00 min
 Lab File: VU027561.D
 Acq: 10 Oct 2018 10:47

Tgt Ion: 75 Resp: 51440
 Ion Ratio Lower Upper
 75 100
 77 31.9 24.5 36.7
 39 49.8 40.1 60.1





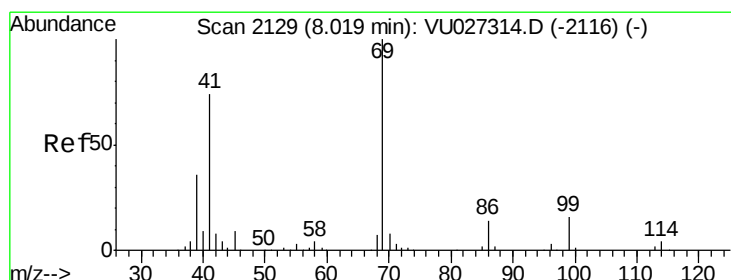
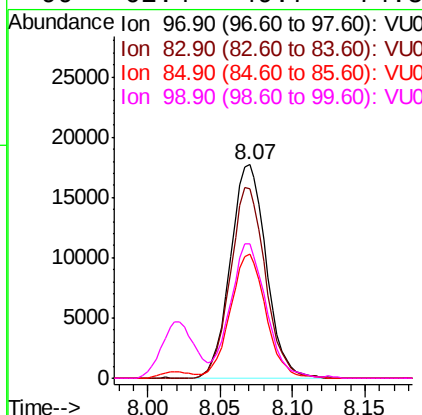
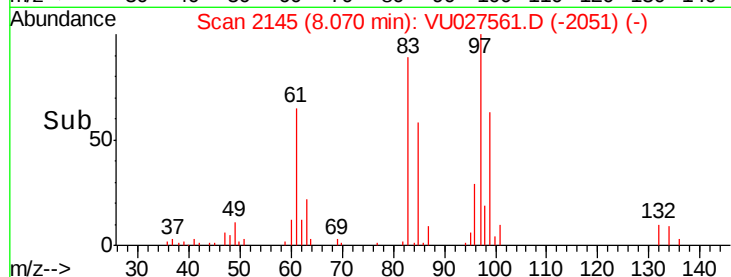
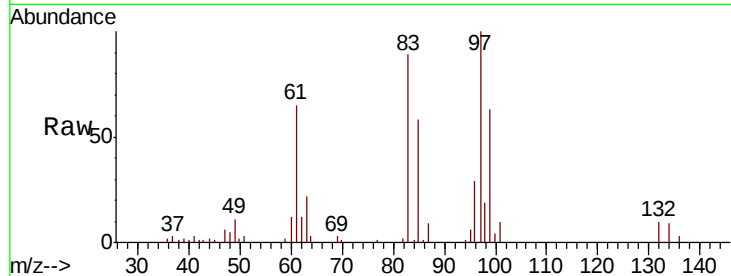
#55
1,1,2-Trichloroethane
Concen: 19.717 ug/l
RT: 8.07 min Scan# 2145
Delta R.T. 0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VU1010WBSD02

Tot Ion:	97	Resp:	30413
Ion	Ratio	Lower	Upper
97	100		
83	88.8	73.0	109.6
85	57.8	47.3	70.9
99	62.4	49.7	74.5

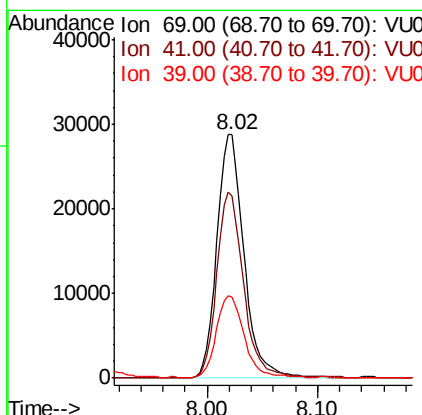
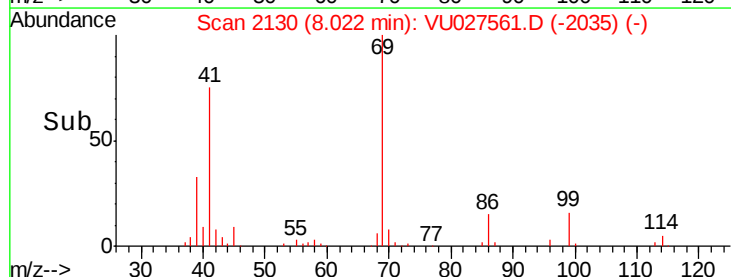
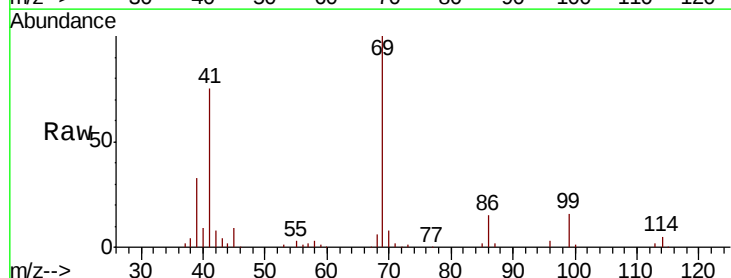
Manual Integrations
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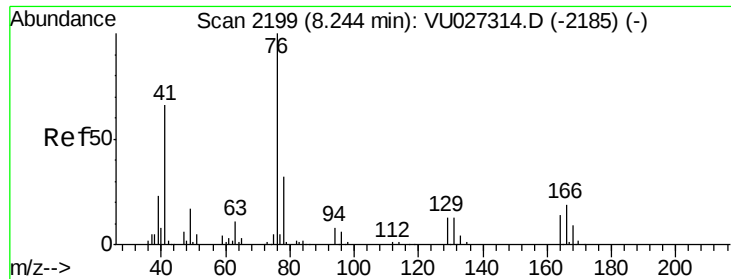
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10/11/2018 9:02:12 AM



#56
Ethyl methacrylate
Concen: 18.119 ug/l
RT: 8.02 min Scan# 2130
Delta R.T. 0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Tgt Ion:	69	Resp:	49038
Ion	Ratio	Lower	Upper
69	100		
41	75.2	60.0	90.0
39	35.1	29.5	44.3





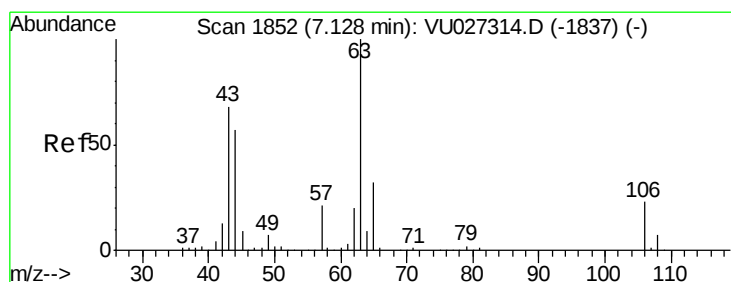
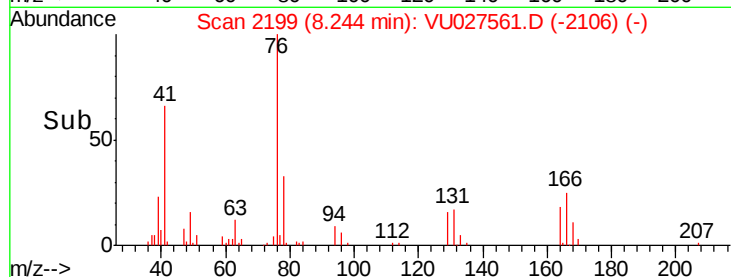
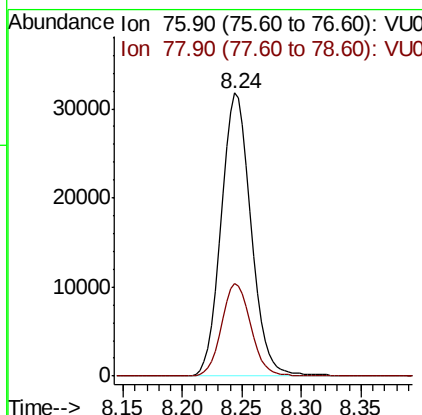
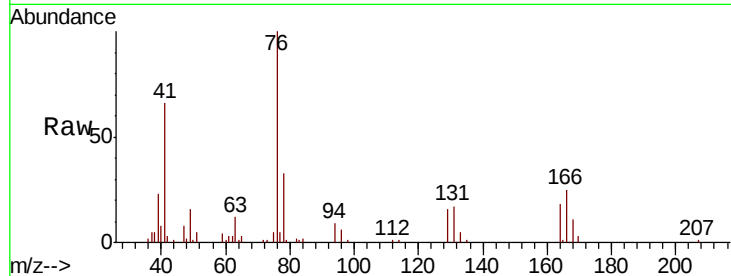
#57
 1,3-Dichloropropane
 Concen: 18.521 ug/l
 RT: 8.24 min Scan# 2199
 Delta R.T. -0.00 min
 Lab File: VU027561.D
 Acq: 10 Oct 2018 10:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1010WBSD02

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.8	38.6

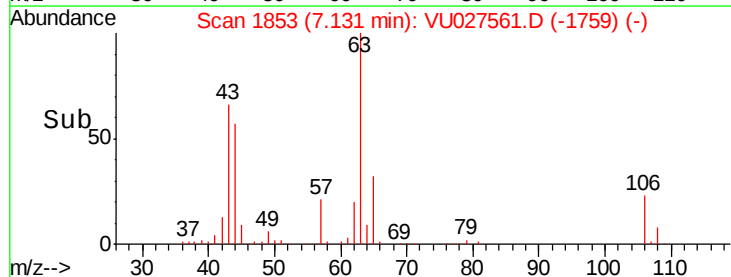
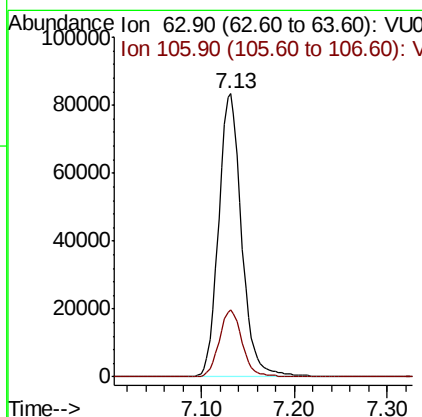
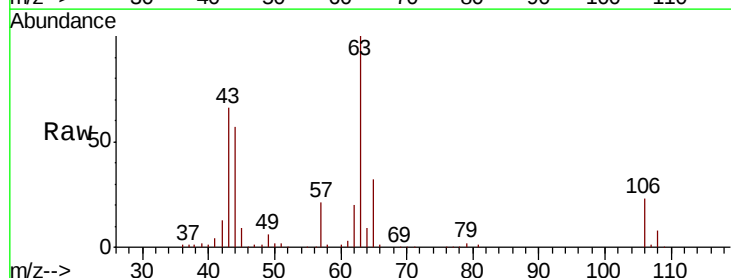
Manual Integrations
 APPROVED

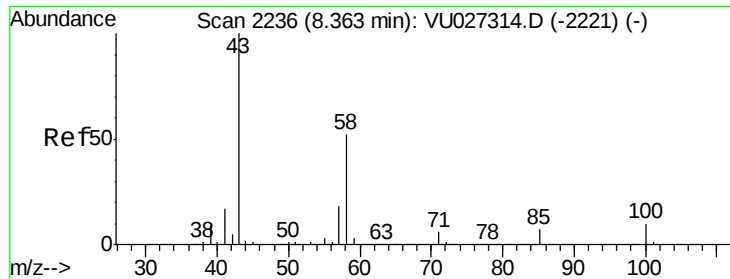
MMDadoda
 10/11/2018 9:02:12 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 93.958 ug/l
 RT: 7.13 min Scan# 1853
 Delta R.T. 0.00 min
 Lab File: VU027561.D
 Acq: 10 Oct 2018 10:47

Tgt Ion	Ratio	Lower	Upper
63	100		
106	23.5	18.5	27.7





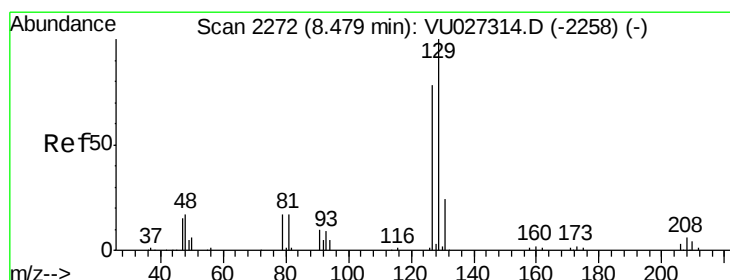
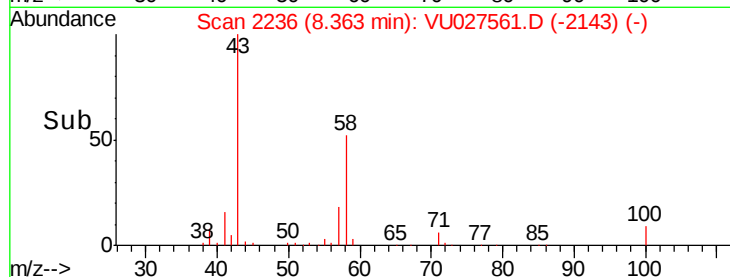
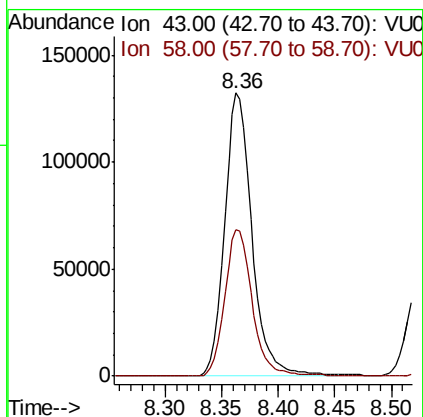
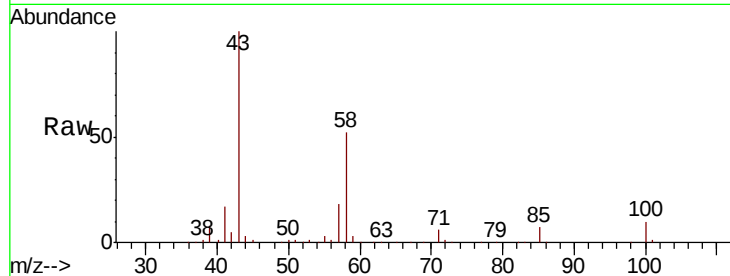
#59
2-Hexanone
Concen: 97.408 ug/l
RT: 8.36 min Scan# 2236
Delta R.T. -0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VU1010WBSD02

Tot Ion: 43 Resp: 222389
Ion Ratio Lower Upper
43 100
58 52.2 26.1 78.3

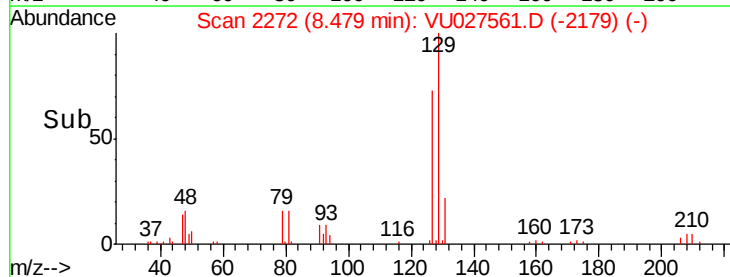
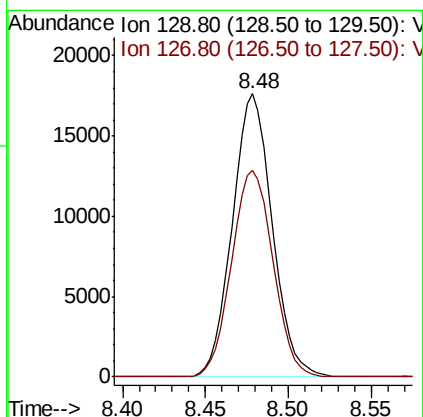
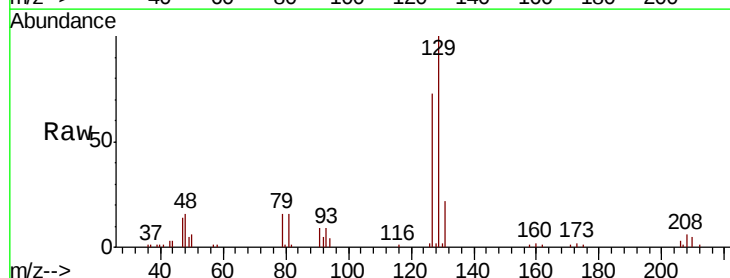
Manual Integrations
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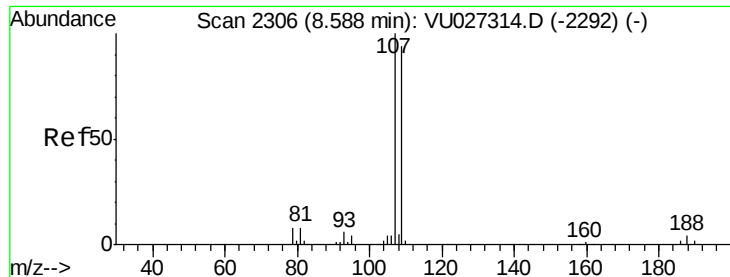
MMDadoda
10/11/2018 9:02:12 AM



#60
Dibromochloromethane
Concen: 19.084 ug/l
RT: 8.48 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Tgt Ion: 129 Resp: 29524
Ion Ratio Lower Upper
129 100
127 75.7 39.1 117.2





#61

1,2-Dibromoethane

Concen: 18.694 ug/l

RT: 8.59 min Scan# 2306

Delta R.T. -0.00 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

Instrument :

MSVOA_U

ClientSampleId :

VU1010WBSD02

Tot Ion:107 Resp: 30658

Ion Ratio Lower Upper

107 100

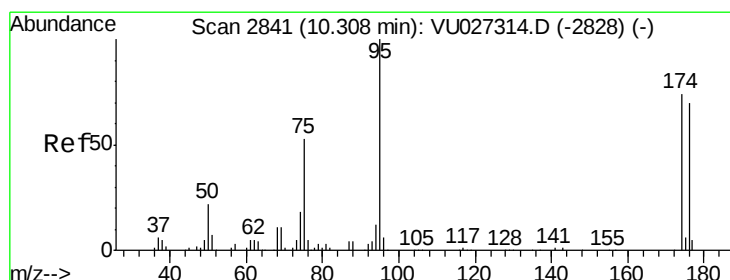
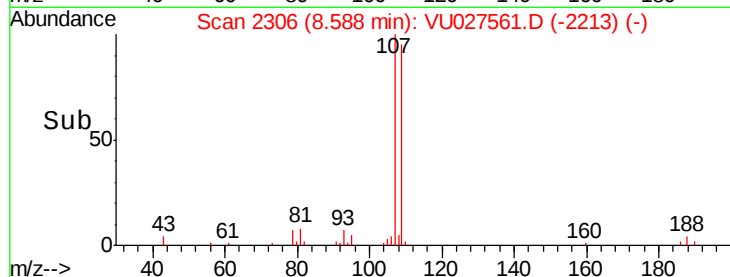
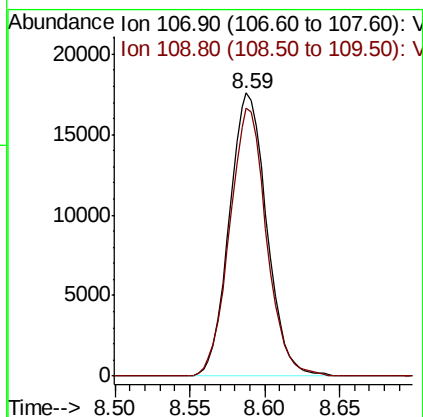
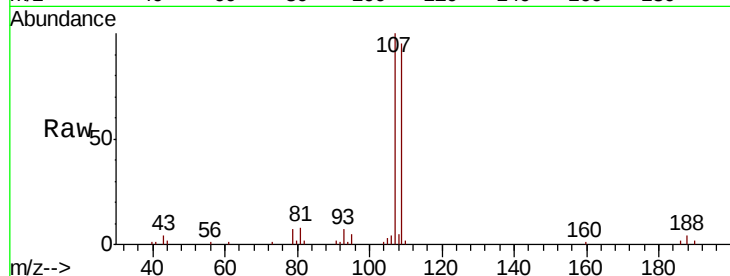
109 93.2 74.5 111.7

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#62

4-Bromofluorobenzene

Concen: 45.036 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

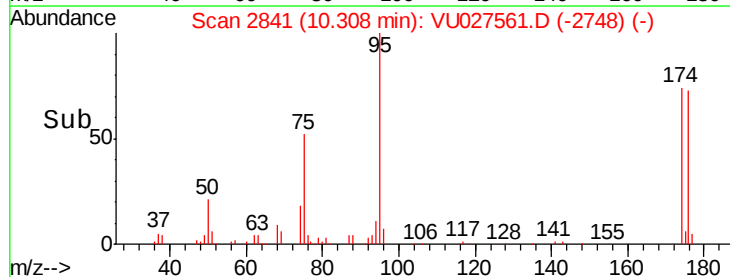
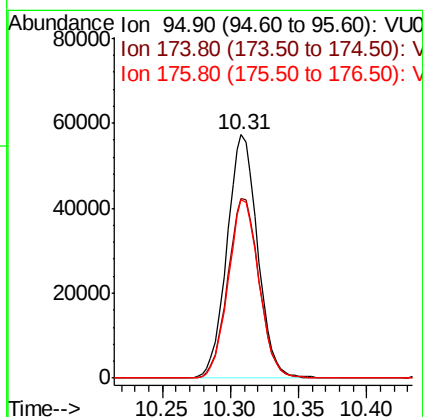
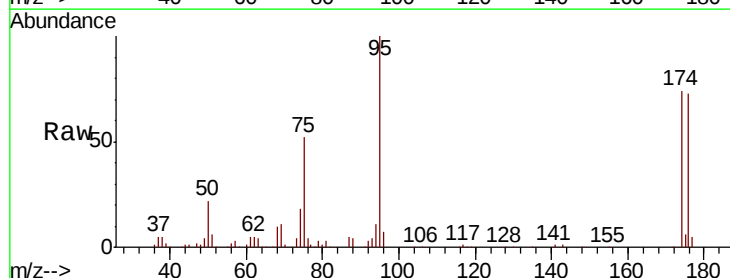
Tgt Ion: 95 Resp: 89218

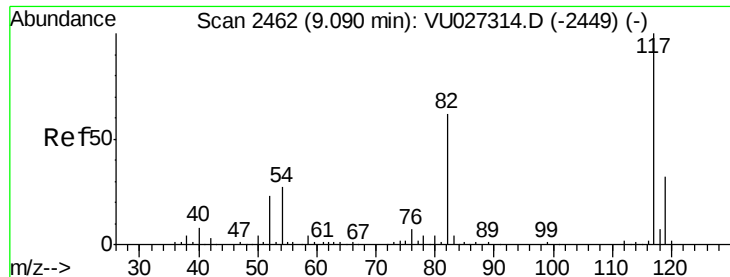
Ion Ratio Lower Upper

95 100

174 75.5 0.0 147.8

176 73.7 0.0 140.8





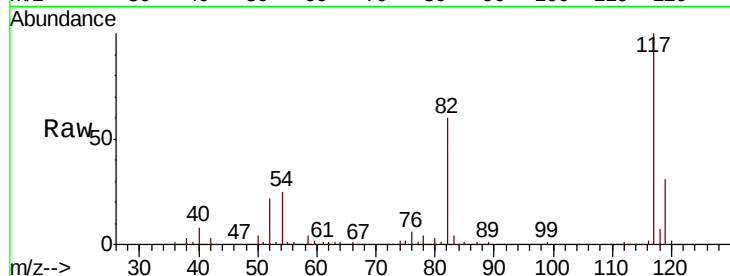
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VU1010WBSD02

Tot Ion	Ratio	Lower	Upper
117	100		
82	60.0	49.2	73.8
119	31.4	25.7	38.5

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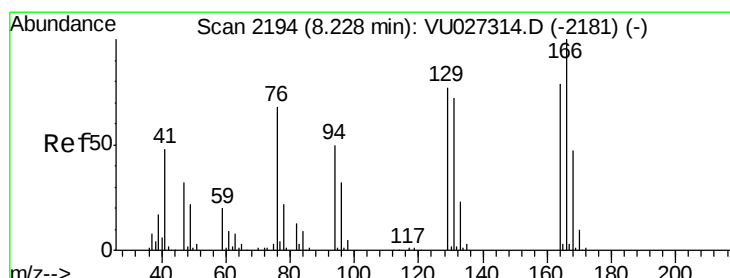
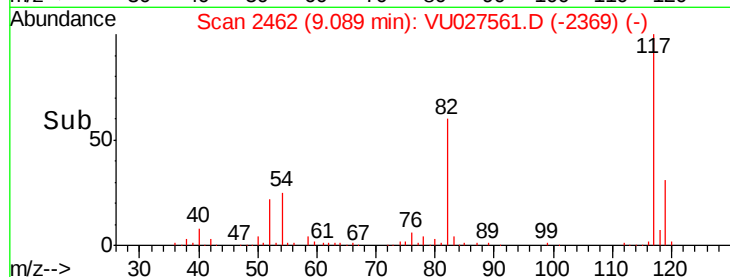
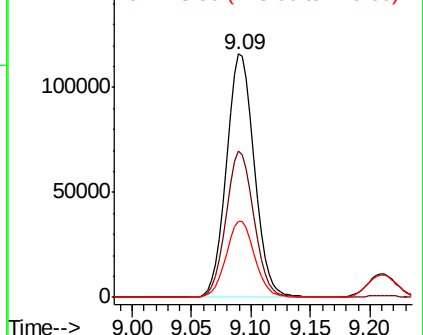


Abundance

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: 18.545 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. -0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.8	101.0	151.6
129	95.8	78.0	117.0
131	92.1	72.6	109.0

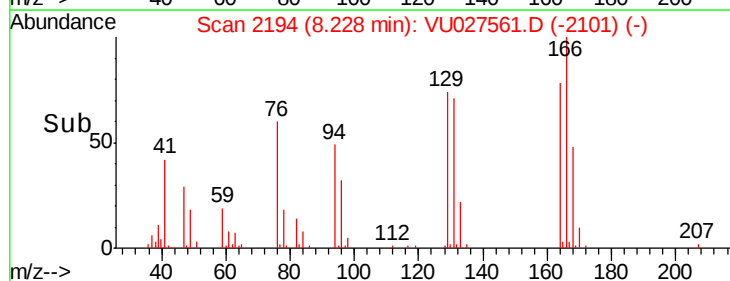
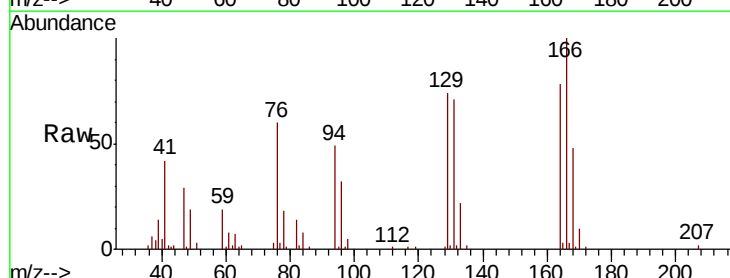
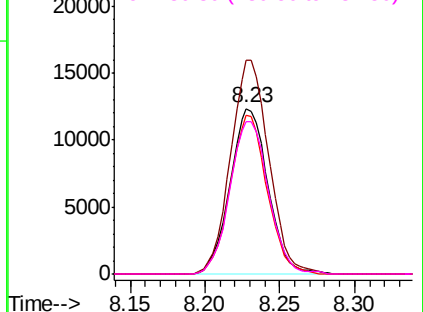
Abundance

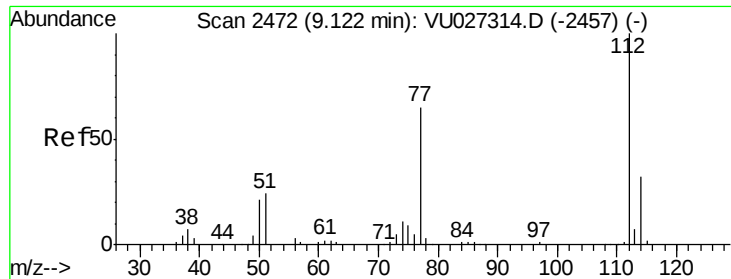
Ion 163.80 (163.50 to 164.50): V

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





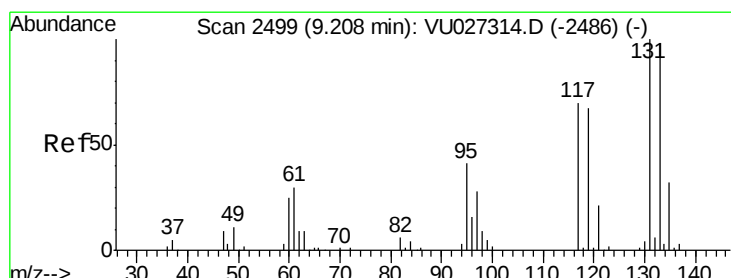
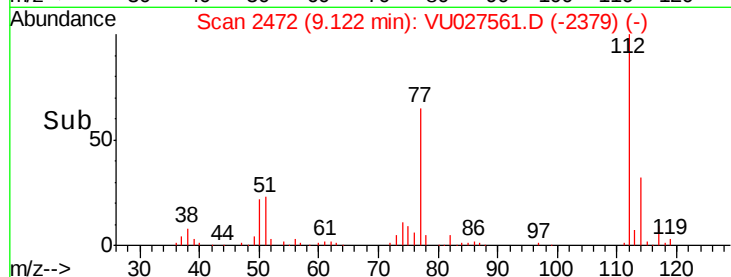
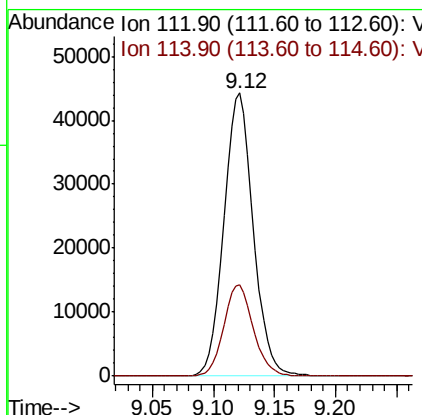
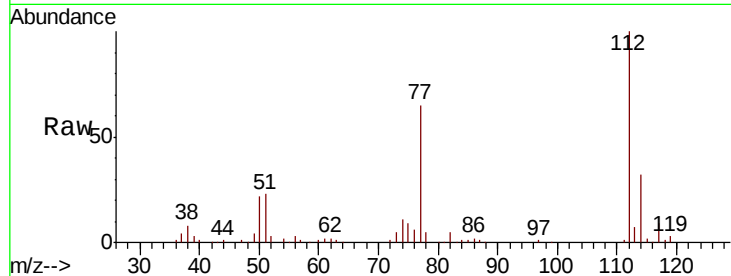
#65
Chlorobenzene
Concen: 18.802 ug/l
RT: 9.12 min Scan# 2472
Delta R.T. -0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VU1010WBSD02

Tot Ion:112 Resp: 74721
Ion Ratio Lower Upper
112 100
114 32.1 25.8 38.6

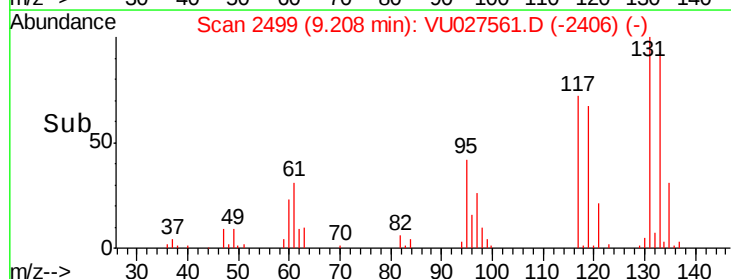
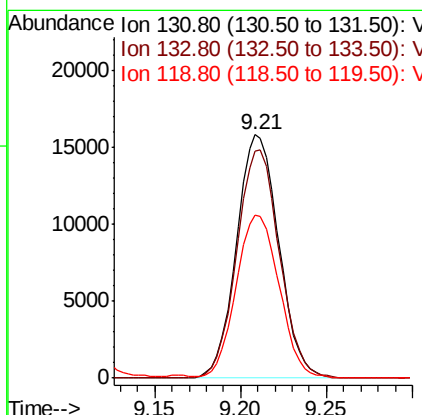
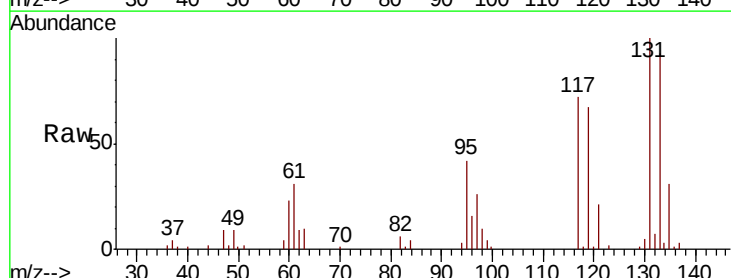
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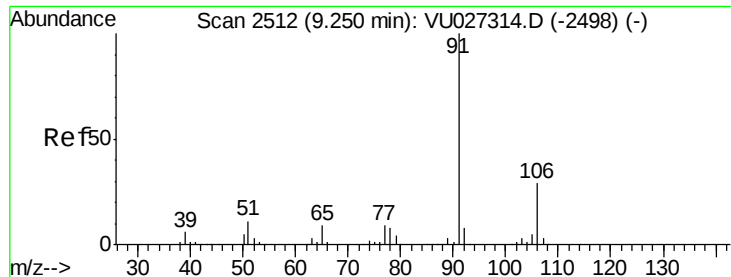
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 19.726 ug/l
RT: 9.21 min Scan# 2499
Delta R.T. -0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Tgt Ion:131 Resp: 27063
Ion Ratio Lower Upper
131 100
133 94.7 48.5 145.6
119 68.4 33.5 100.4





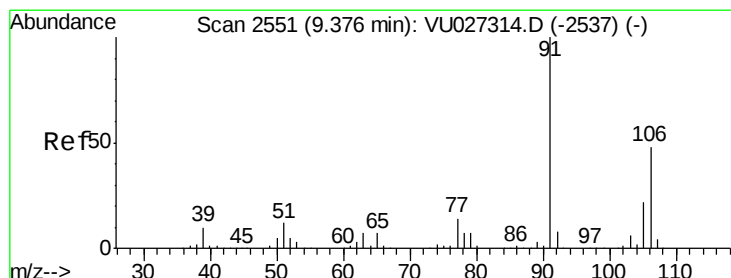
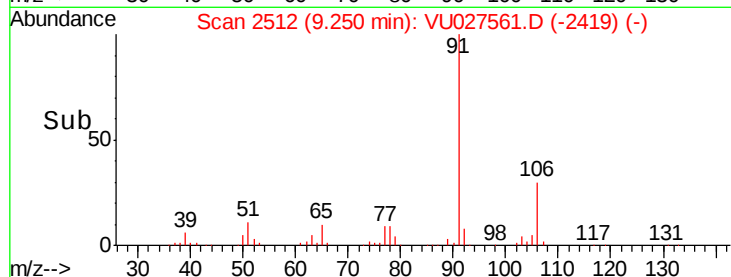
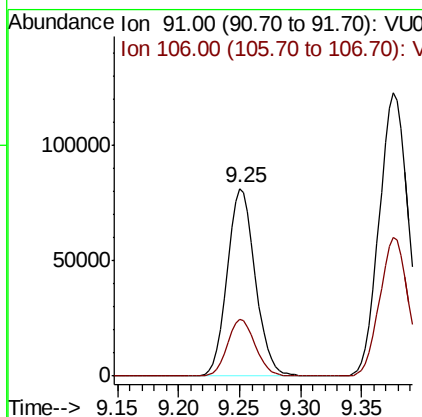
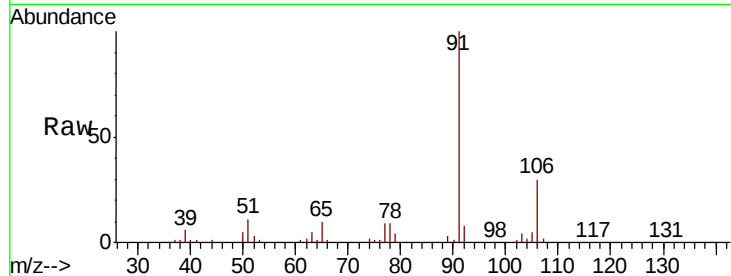
#67
Ethyl Benzene
Concen: 18.642 ug/l
RT: 9.25 min Scan# 2512
Delta R.T. -0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VU1010WBSD02

Tot Ion: 91 Resp: 131261
Ion Ratio Lower Upper
91 100
106 30.2 23.6 35.4

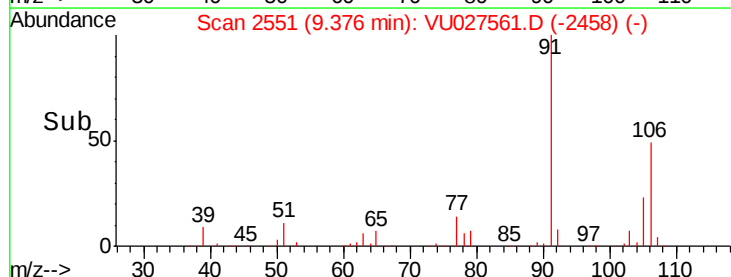
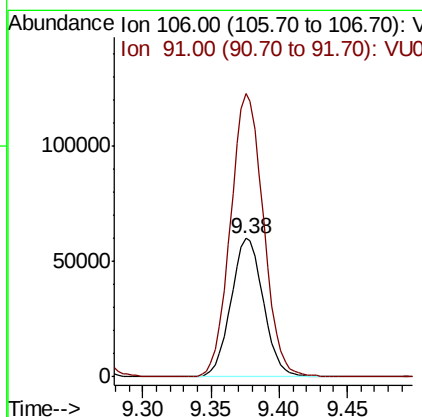
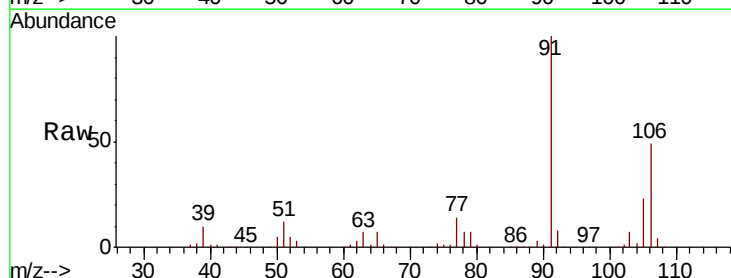
Manual Integrations
APPROVED

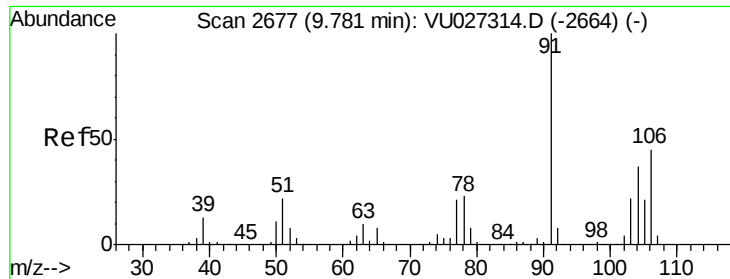
MMDadoda
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#68
m/p-Xylenes
Concen: 38.325 ug/l
RT: 9.38 min Scan# 2551
Delta R.T. -0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Tgt Ion: 106 Resp: 98706
Ion Ratio Lower Upper
106 100
91 207.6 168.1 252.1





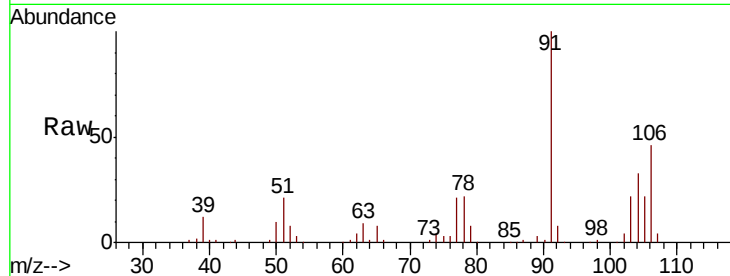
#69
o-Xylene
Concen: 19.532 ug/l
RT: 9.78 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VU1010WBSD02

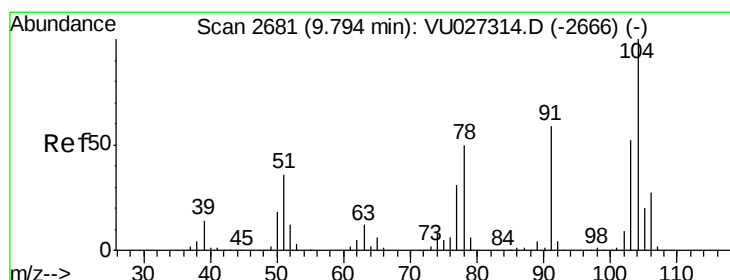
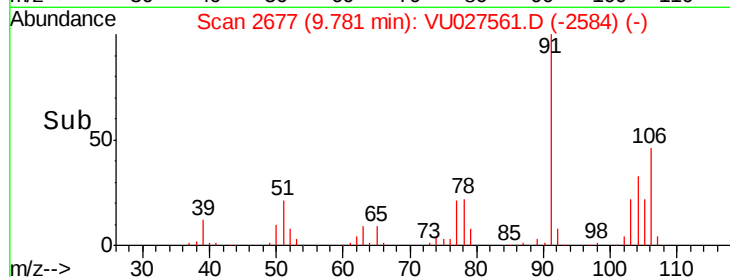
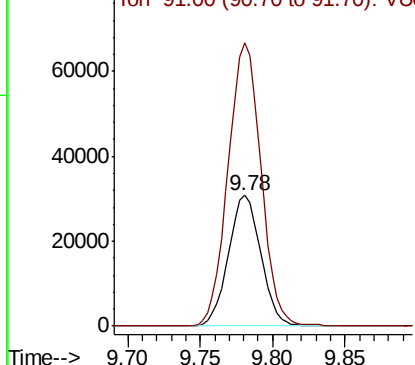
Tot Ion:106 Resp: 47803
Ion Ratio Lower Upper
106 100
91 220.0 111.7 334.9

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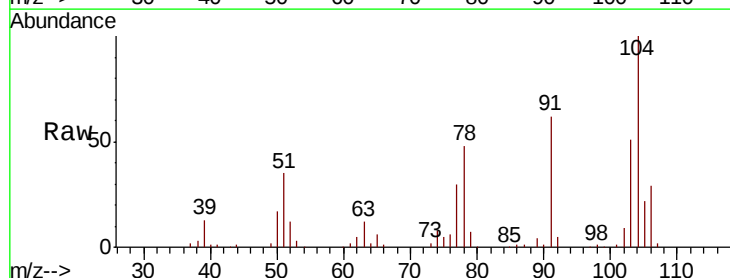


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

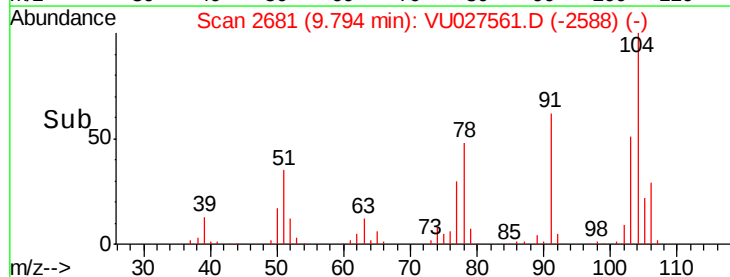
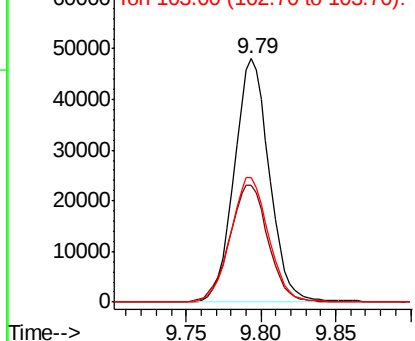


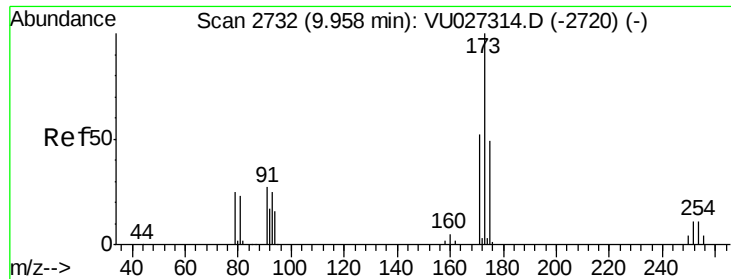
#70
Styrene
Concen: 18.596 ug/l
RT: 9.79 min Scan# 2681
Delta R.T. 0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Tgt Ion:104 Resp: 78153
Ion Ratio Lower Upper
104 100
78 53.2 42.9 64.3
103 55.6 43.9 65.9



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





#71

Bromoform

Concen: 19.331 ug/l

RT: 9.96 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

Instrument :

MSVOA_U

ClientSampleId :

VU1010WBSD02

Tot Ion:173 Resp: 21338

Ion Ratio Lower Upper

173 100

175 49.1 24.3 73.0

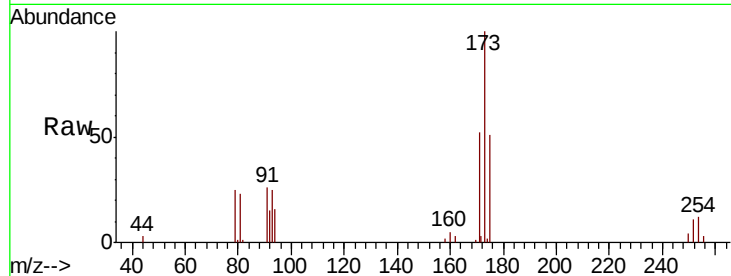
254 0.0 0.0 0.0

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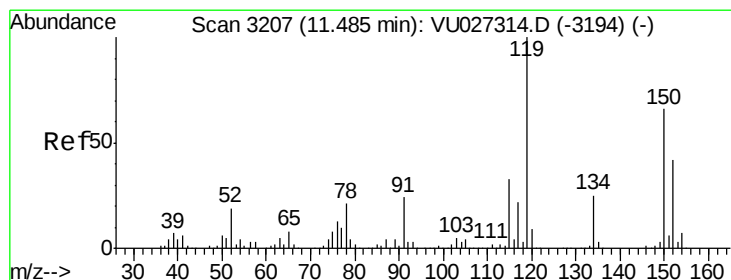
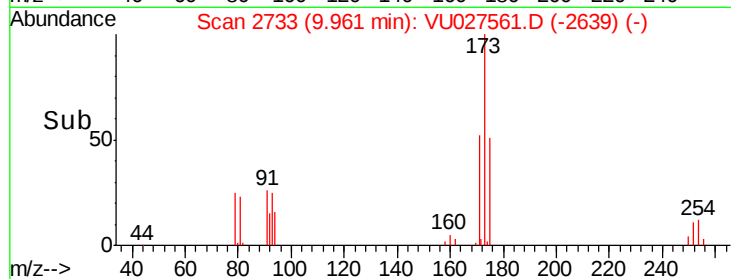
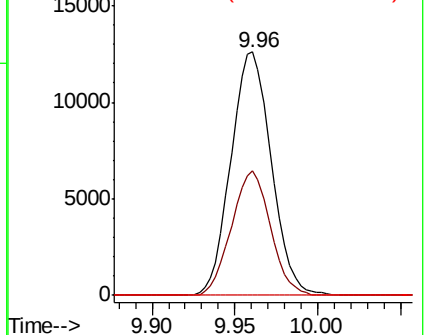
10/11/2018 9:02:12 AM



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# 3207

Delta R.T. -0.00 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

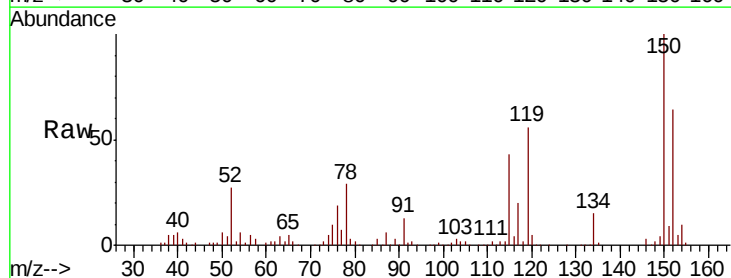
Tgt Ion:152 Resp: 91253

Ion Ratio Lower Upper

152 100

115 69.4 43.4 130.2

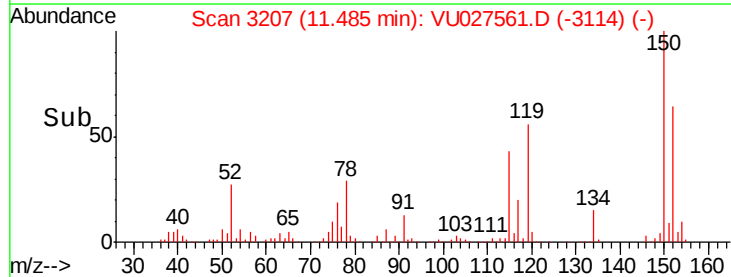
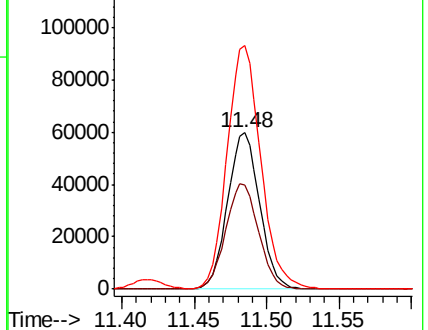
150 164.1 0.0 349.2

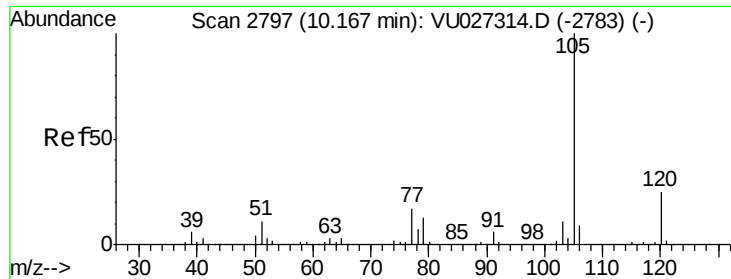


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 19.696 ug/l

RT: 10.17 min Scan# 2797

Delta R.T. -0.00 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

Instrument :

MSVOA_U

ClientSampleId :

VU1010WBSD02

Tot Ion: 105 Resp: 130538

Ion Ratio Lower Upper

105 100

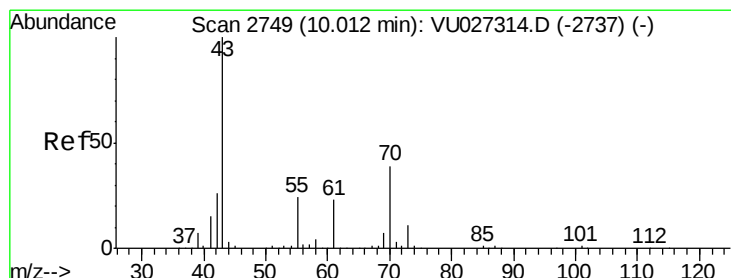
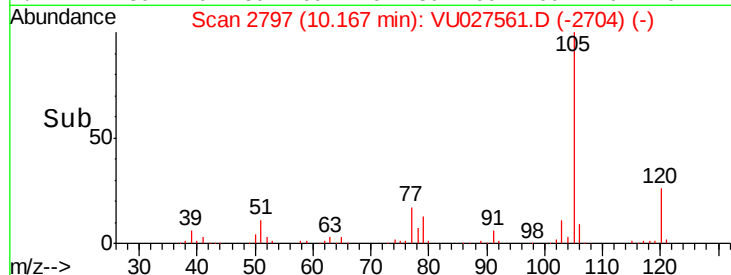
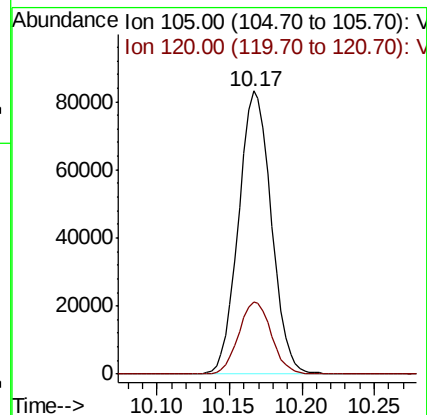
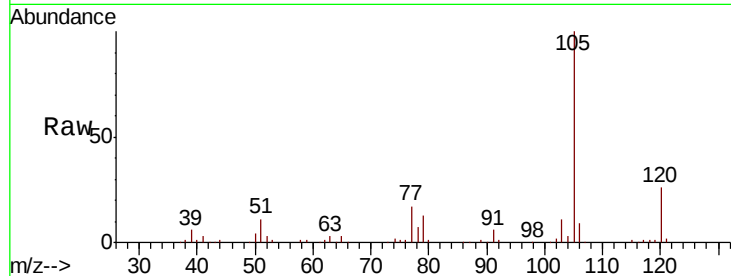
120 25.4 12.6 37.8

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#74

N-ethyl acetate

Concen: 19.237 ug/l

RT: 10.02 min Scan# 2750

Delta R.T. 0.00 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

Tgt Ion: 43 Resp: 72987

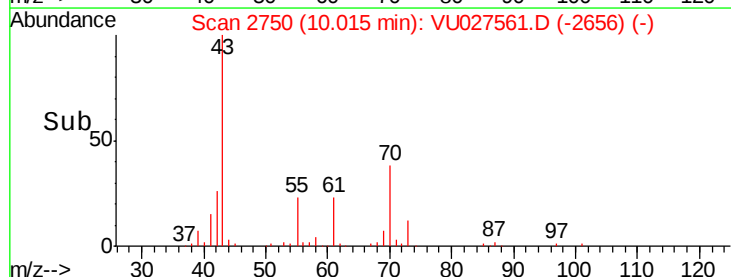
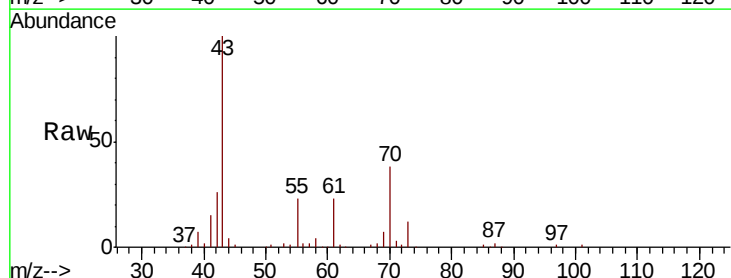
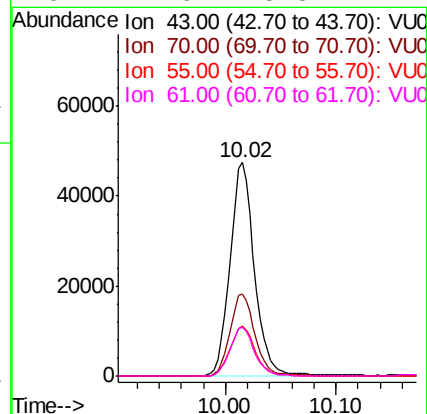
Ion Ratio Lower Upper

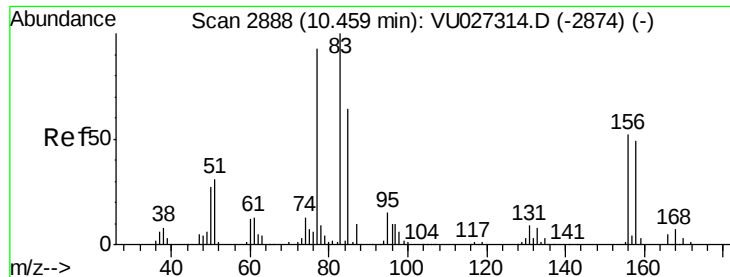
43 100

70 39.1 31.3 46.9

55 23.8 19.0 28.6

61 22.6 18.5 27.7





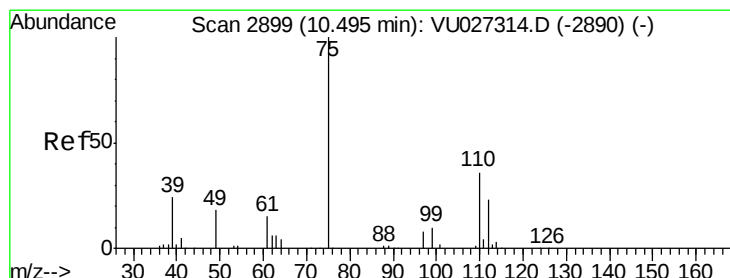
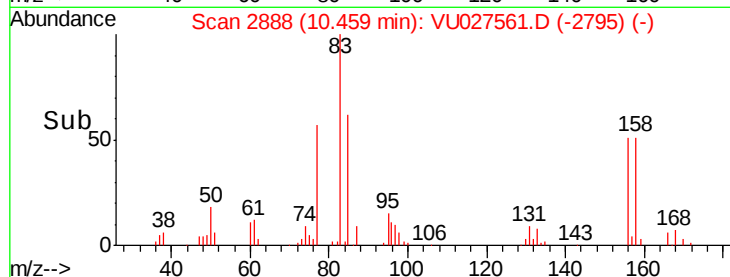
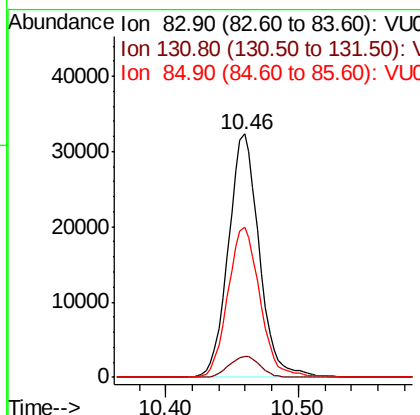
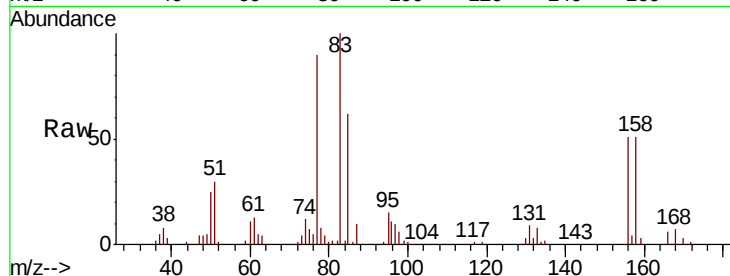
#75
 1,1,2,2-Tetrachloroethane
 Concen: 20.048 ug/l
 RT: 10.46 min Scan# 2888
 Delta R.T. -0.00 min
 Lab File: VU027561.D
 Acq: 10 Oct 2018 10:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1010WBSD02

Tot Ion	Ratio	Lower	Upper
83	100		
131	8.6	4.4	13.2
85	64.4	32.0	96.0

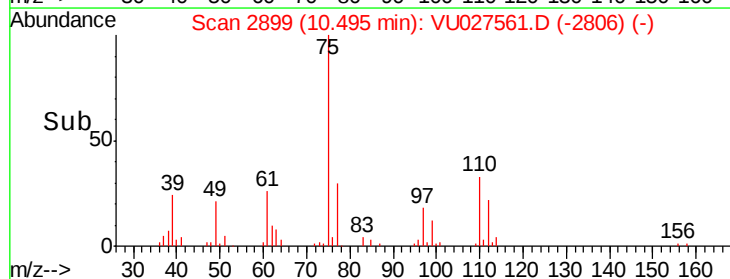
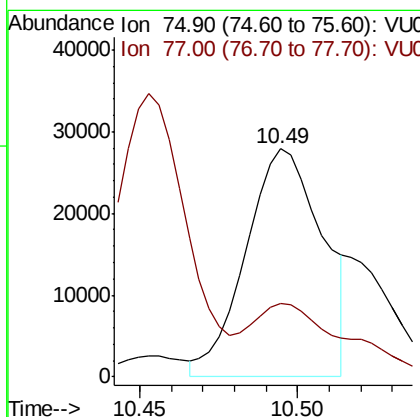
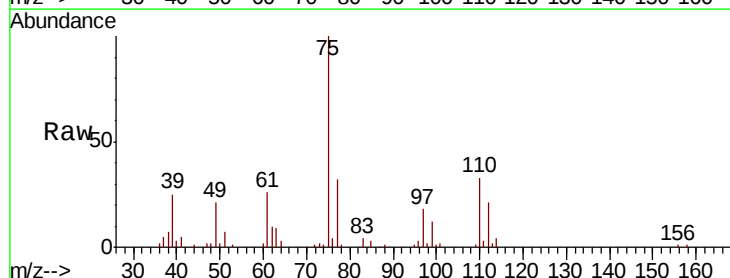
Manual Integrations
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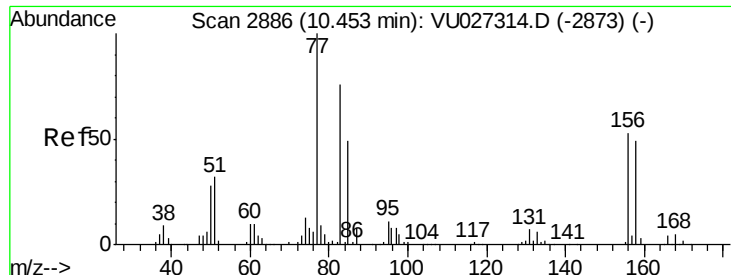
MMDadoda
 10/11/2018 9:02:12 AM



#76
 1,2,3-Trichloropropane
 Concen: 19.887 ug/l m
 RT: 10.49 min Scan# 2899
 Delta R.T. -0.00 min
 Lab File: VU027561.D
 Acq: 10 Oct 2018 10:47

Tgt Ion	Ratio	Lower	Upper
75	100		
77	39.4	20.3	60.9





#77

Bromobenzene

Concen: 19.634 ug/l

RT: 10.45 min Scan# 2886

Delta R.T. -0.00 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

Instrument :

MSVOA_U

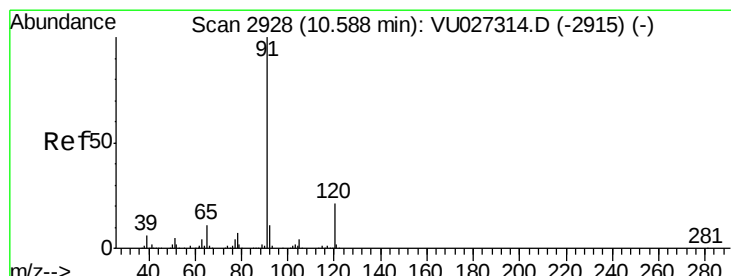
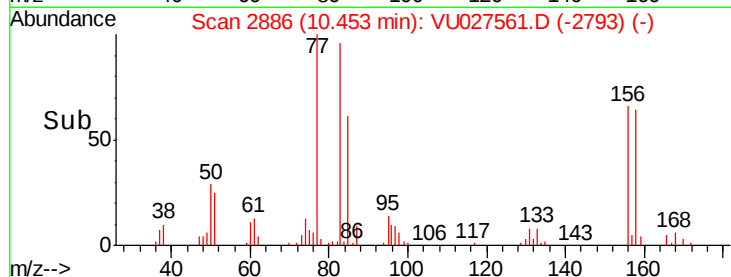
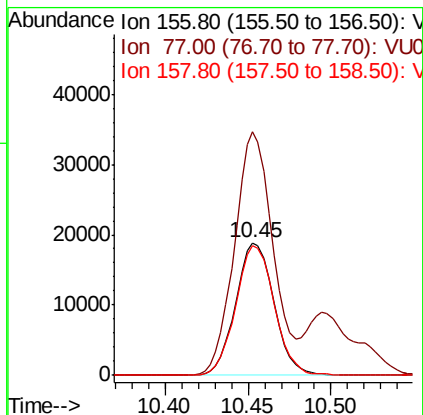
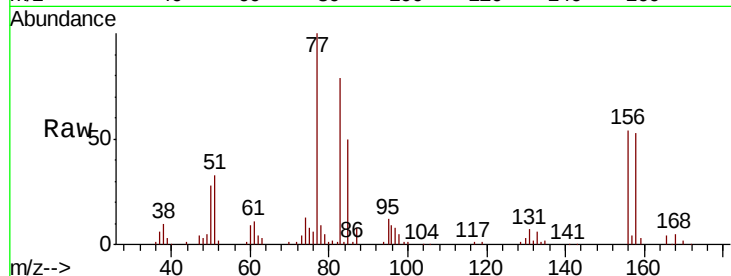
ClientSampleId :

VU1010WBSD02

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	183.5	94.8	284.4	
158	98.4	47.4	142.3	

Manual Integrations
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#78

n-propylbenzene

Concen: 19.192 ug/l

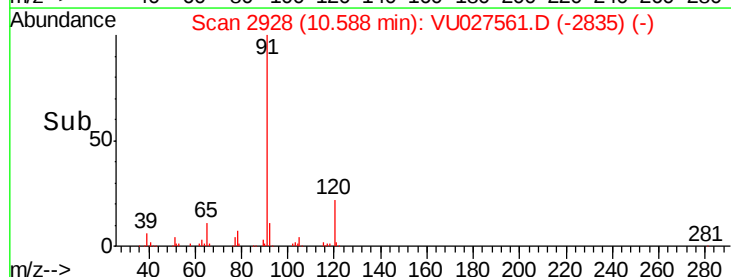
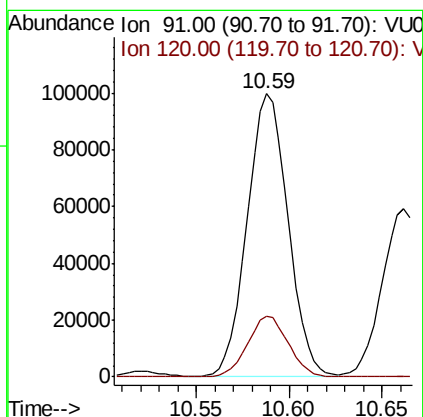
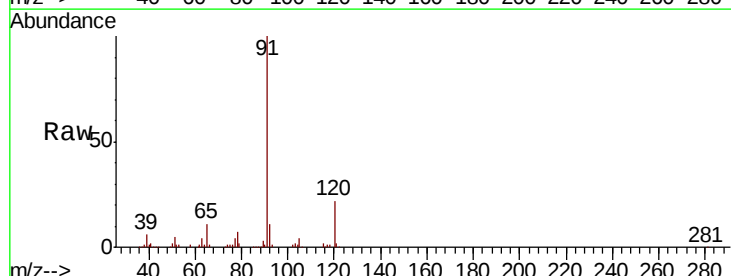
RT: 10.59 min Scan# 2928

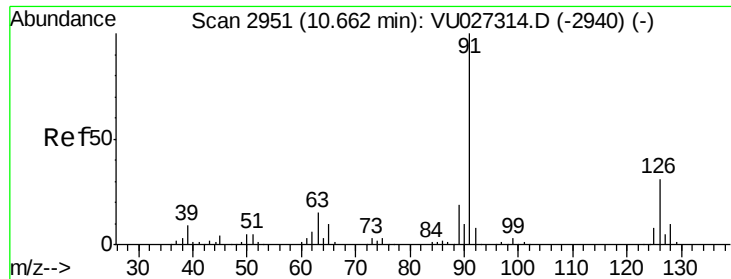
Delta R.T. -0.00 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	21.2	10.6	31.8	





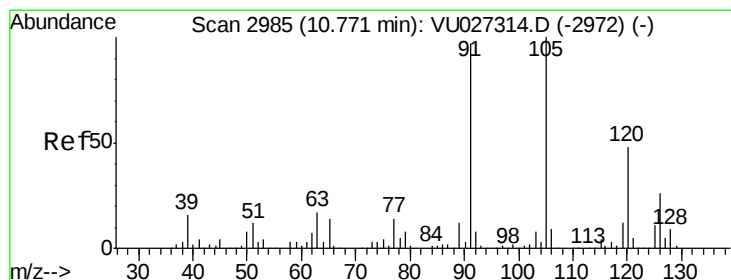
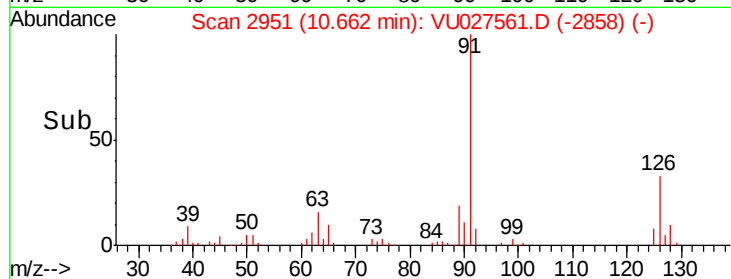
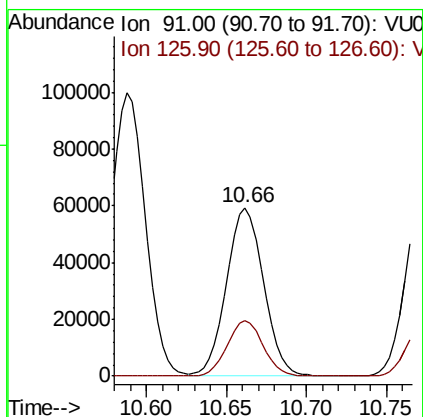
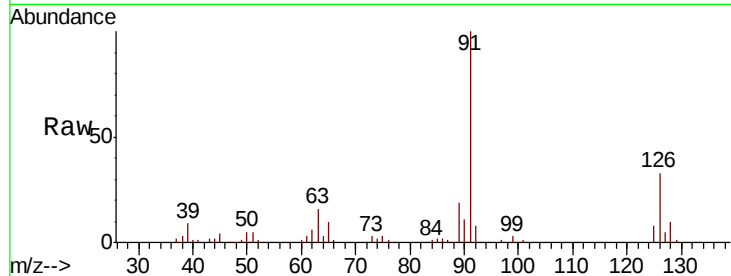
#79
2-Chlorotoluene
Concen: 19.550 ug/l
RT: 10.66 min Scan# 2951
Delta R.T. -0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VU1010WBSD02

Tot Ion: 91 Resp: 94004
Ion Ratio Lower Upper
91 100
126 31.8 15.7 47.1

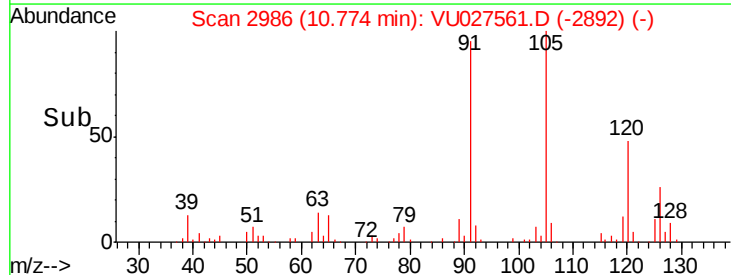
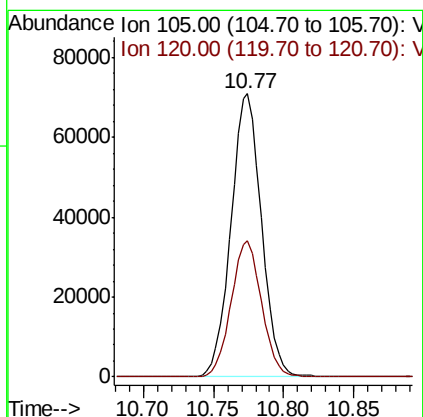
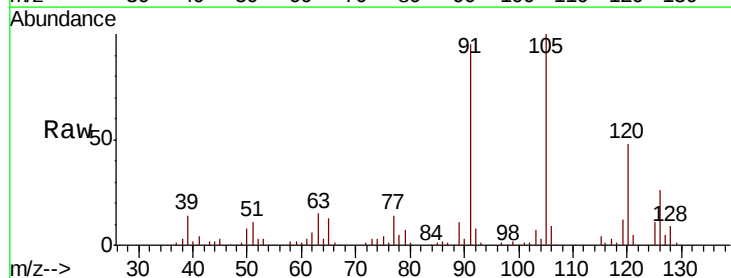
Manual Integrations
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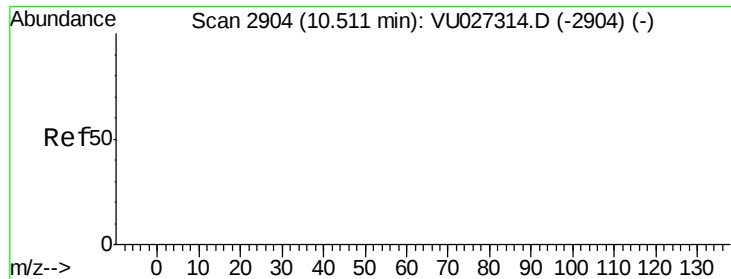
MMDadoda
10/11/2018 9:02:12 AM



#80
1,3,5-Trimethylbenzene
Concen: 19.933 ug/l
RT: 10.77 min Scan# 2986
Delta R.T. 0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Tgt Ion: 105 Resp: 107555
Ion Ratio Lower Upper
105 100
120 47.9 24.1 72.4





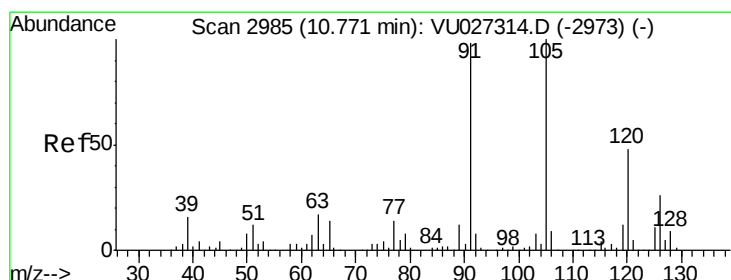
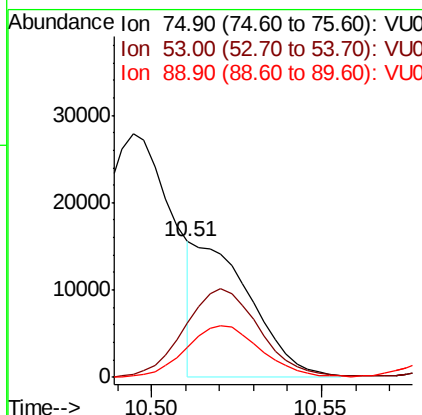
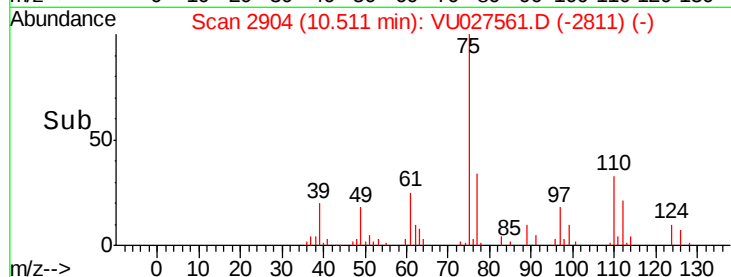
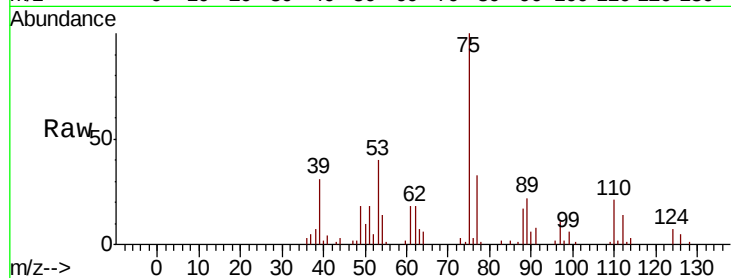
#81
trans-1,4-Dichloro-2-butene
Concen: 19.741 ug/l m
RT: 10.51 min Scan# 2904
Delta R.T. -0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VU1010WBSD02

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

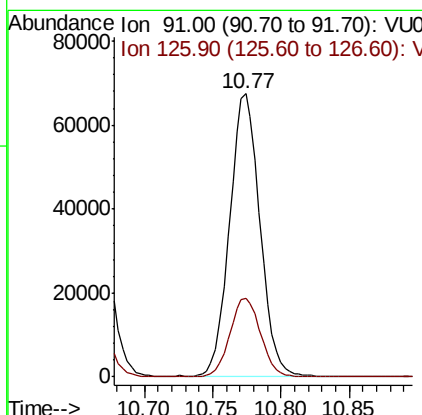
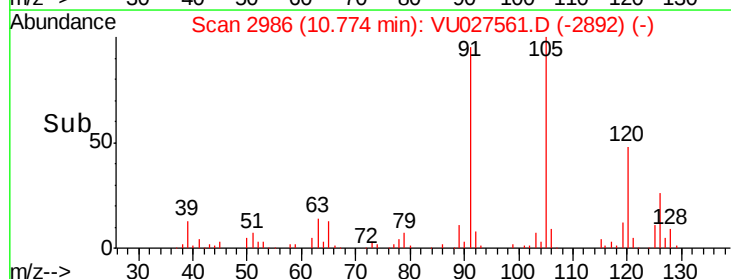
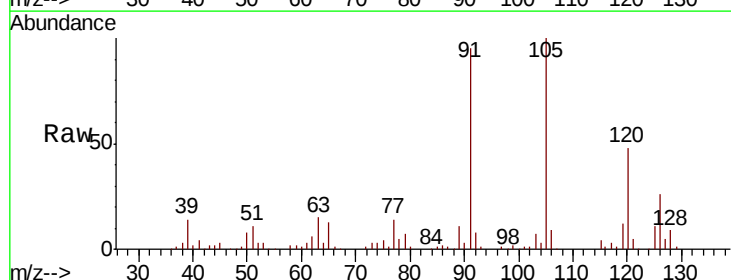
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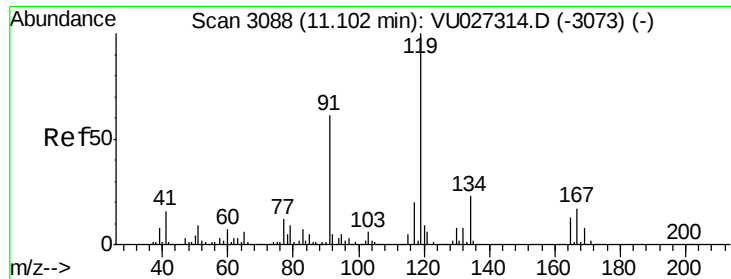
MMDadoda
10/11/2018 9:02:12 AM



#82
4-Chlorotoluene
Concen: 18.999 ug/l
RT: 10.77 min Scan# 2986
Delta R.T. 0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Tgt Ion	Ratio	Lower	Upper
91	100		
126	28.2	13.6	40.8





#83

tert-Butylbenzene

Concen: 20.171 ug/l

RT: 11.10 min Scan# 3088

Delta R.T. -0.00 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

Instrument :

MSVOA_U

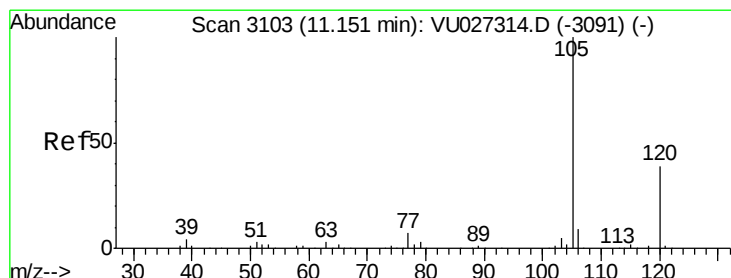
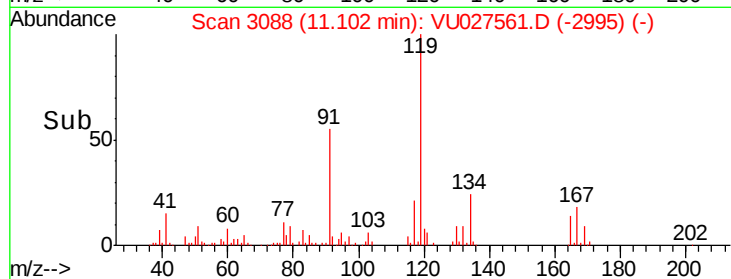
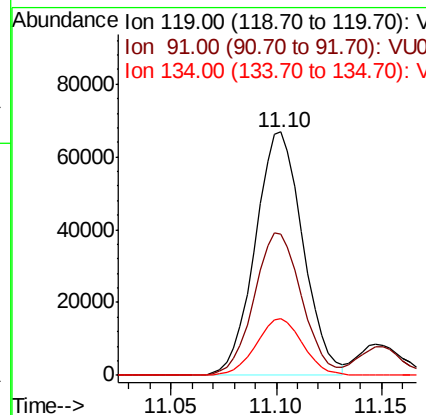
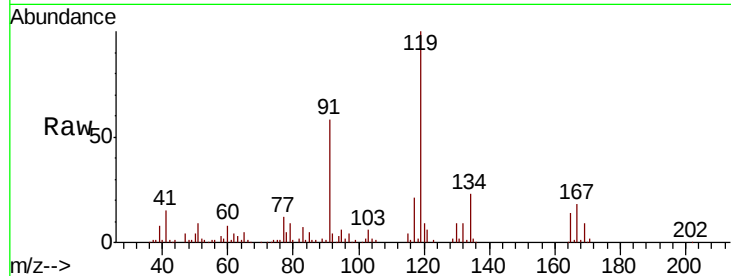
ClientSampleId :

VU1010WBSD02

Tot Ion:	119	Resp:	105219
Ion Ratio	Lower	Upper	
119	100		
91	58.1	30.3	91.0
134	22.8	11.5	34.4

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 19.849 ug/l

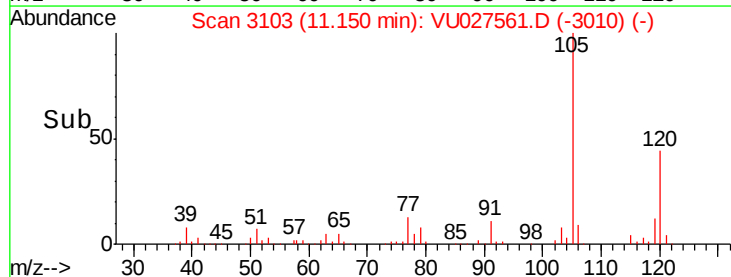
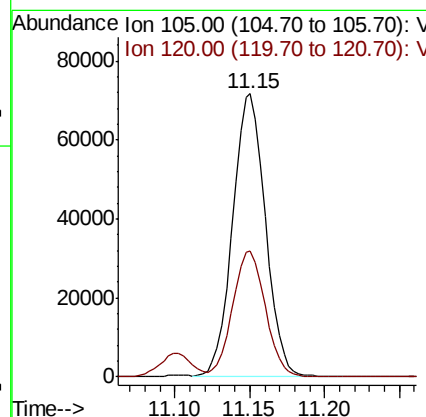
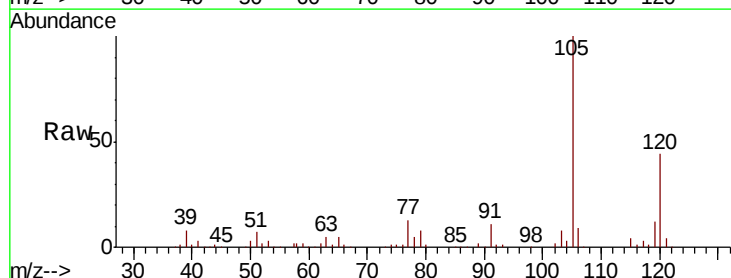
RT: 11.15 min Scan# 3103

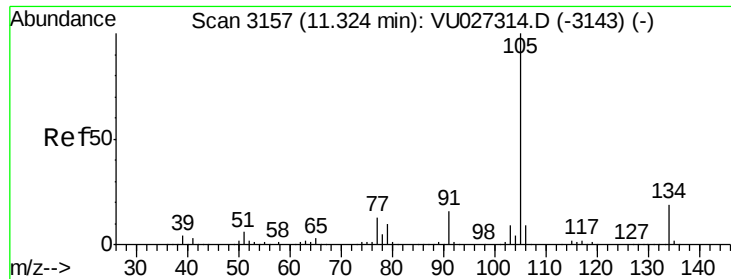
Delta R.T. -0.00 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

Tgt Ion:	105	Resp:	109404
Ion Ratio	Lower	Upper	
105	100		
120	44.5	22.1	66.5





#85

sec-Butylbenzene

Concen: 19.535 ug/l

RT: 11.32 min Scan# 3157

Delta R.T. -0.00 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

Instrument :

MSVOA_U

ClientSampleId :

VU1010WBSD02

Tot Ion:105 Resp: 128394

Ion Ratio Lower Upper

105 100

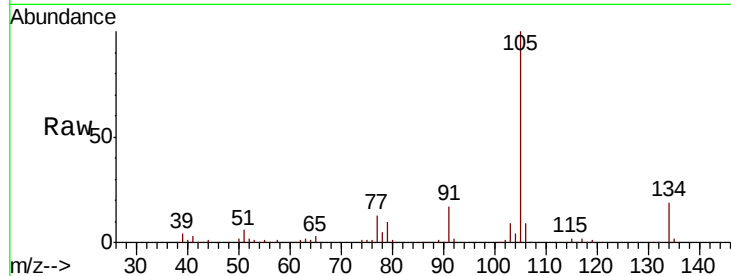
134 19.5 9.6 28.6

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

11.32

80000

60000

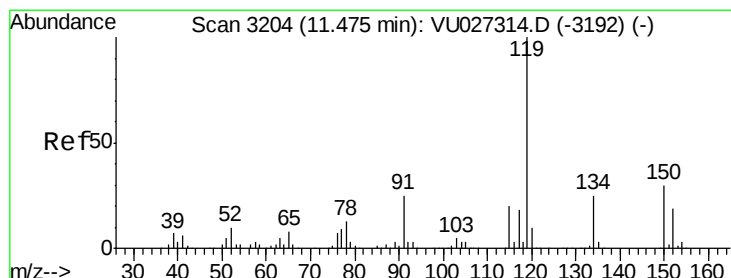
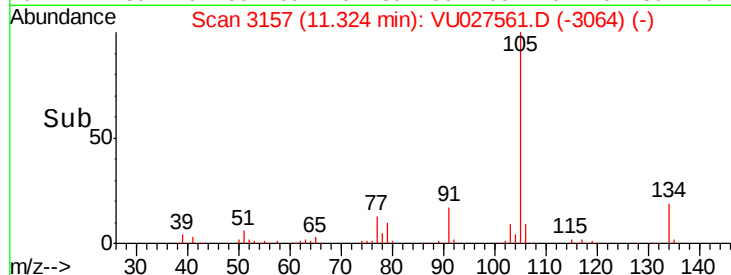
40000

20000

0

Time-->

11.25 11.30 11.35 11.40



#86

p-Isopropyltoluene

Concen: 19.669 ug/l

RT: 11.48 min Scan# 3204

Delta R.T. -0.00 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

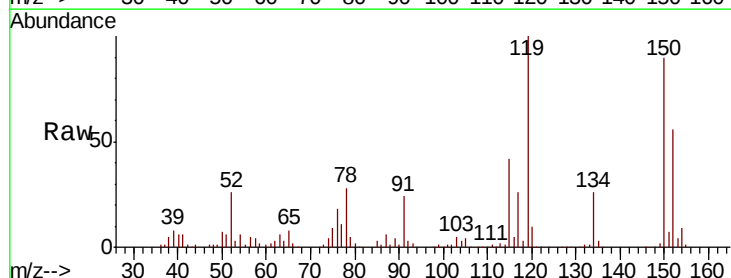
Tgt Ion:119 Resp: 110684

Ion Ratio Lower Upper

119 100

134 25.8 12.7 38.1

91 23.8 12.2 36.4



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VU

11.48

80000

60000

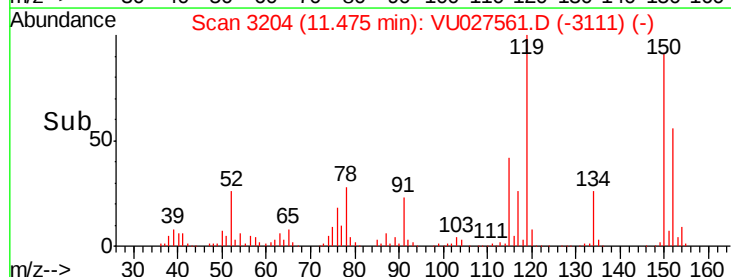
40000

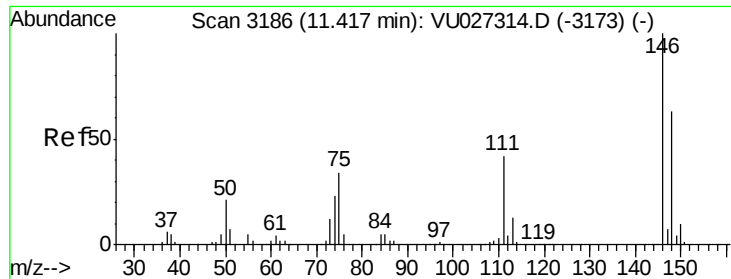
20000

0

Time-->

11.40 11.45 11.50 11.55





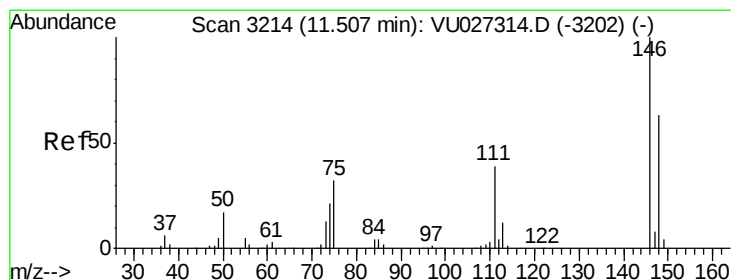
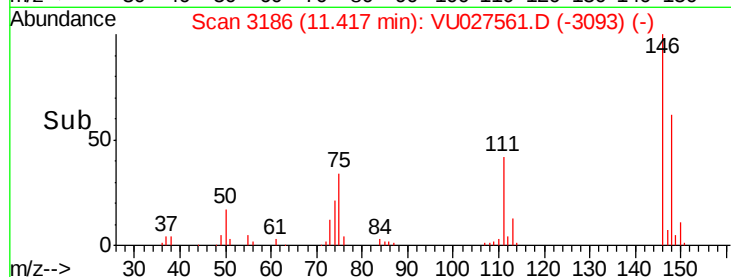
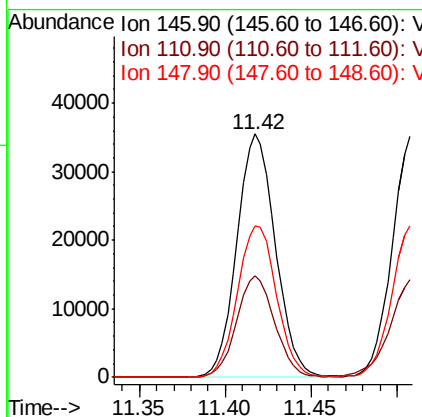
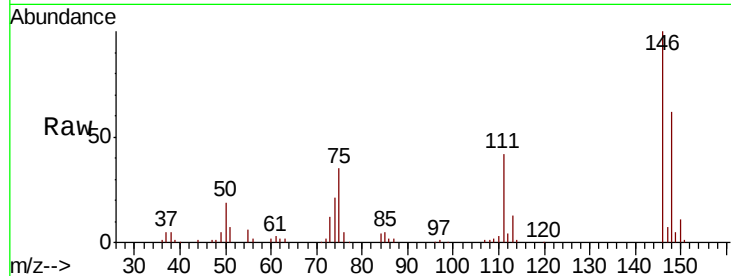
#87
 1,3-Dichlorobenzene
 Concen: 18.986 ug/l
 RT: 11.42 min Scan# 3186
 Delta R.T. -0.00 min
 Lab File: VU027561.D
 Acq: 10 Oct 2018 10:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1010WBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.1	20.8	62.5
148	63.4	31.6	94.8

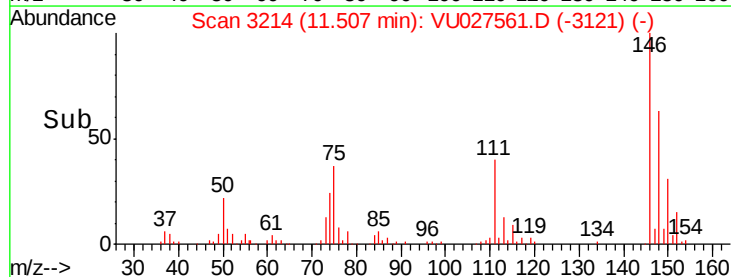
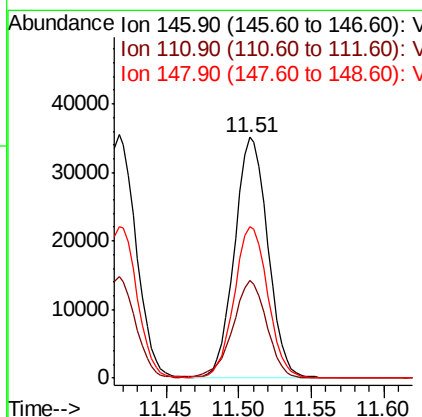
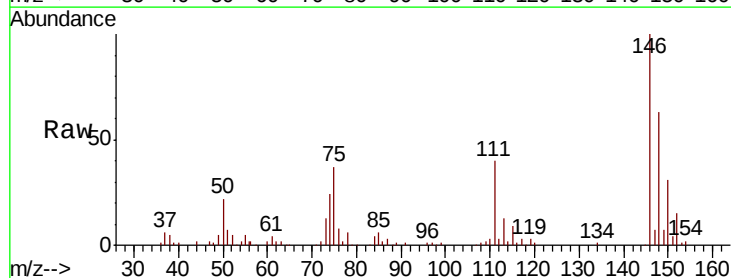
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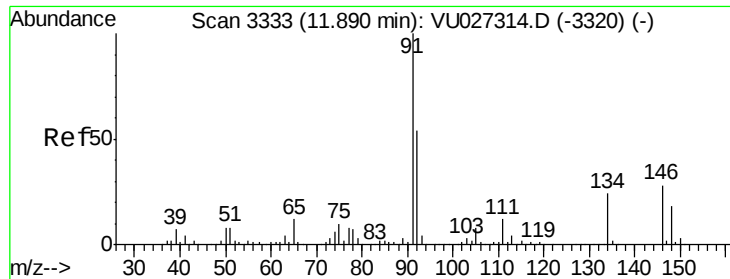
MMDadoda
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#88
 1,4-Dichlorobenzene
 Concen: 18.862 ug/l
 RT: 11.51 min Scan# 3214
 Delta R.T. -0.00 min
 Lab File: VU027561.D
 Acq: 10 Oct 2018 10:47

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.4	61.2
148	63.6	31.9	95.5





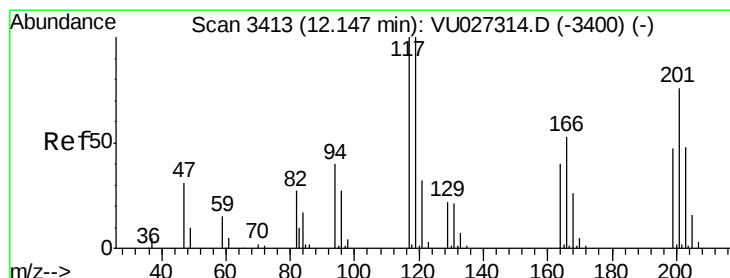
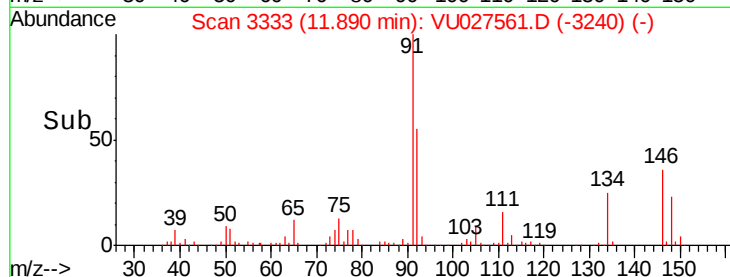
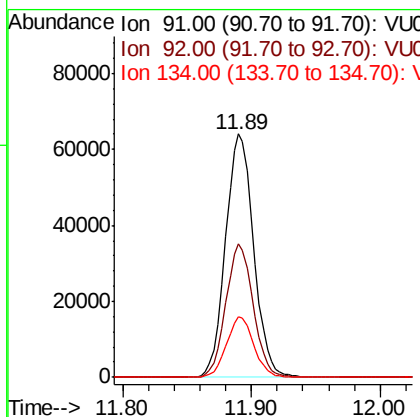
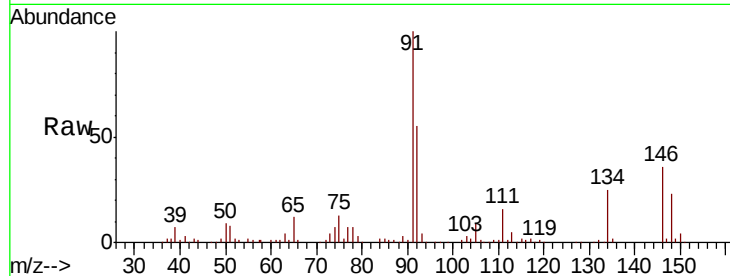
#89
n-Butylbenzene
Concen: 17.524 ug/l
RT: 11.89 min Scan# 3333
Delta R.T. -0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VU1010WBSD02

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.4	27.0	81.0
134	24.0	11.7	35.1

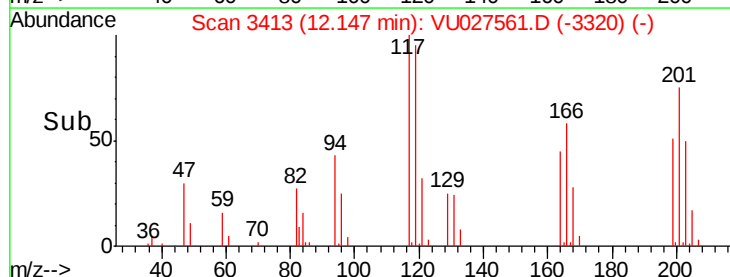
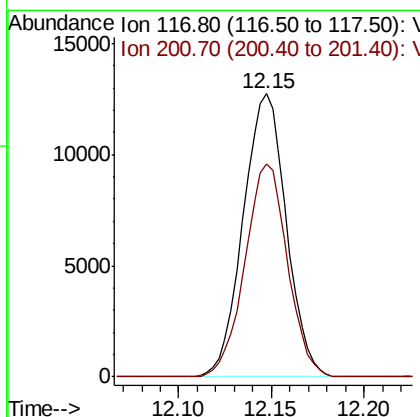
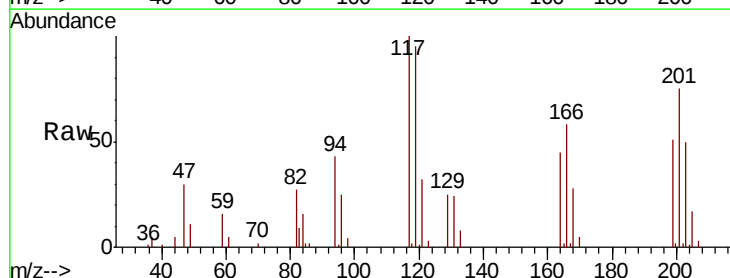
Manual Integrations
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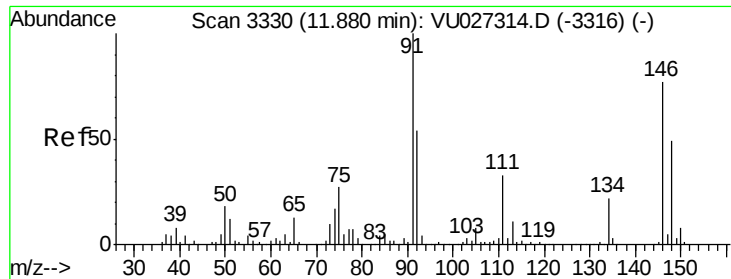
MMDadoda
10/11/2018 9:02:12 AM



#90
Hexachloroethane
Concen: 19.473 ug/l
RT: 12.15 min Scan# 3413
Delta R.T. -0.00 min
Lab File: VU027561.D
Acq: 10 Oct 2018 10:47

Tgt Ion	Ratio	Lower	Upper
117	100		
201	74.2	37.9	113.6





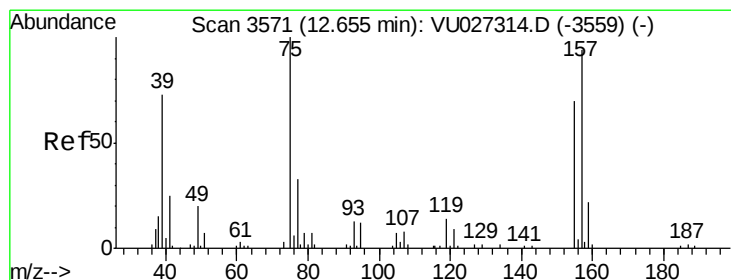
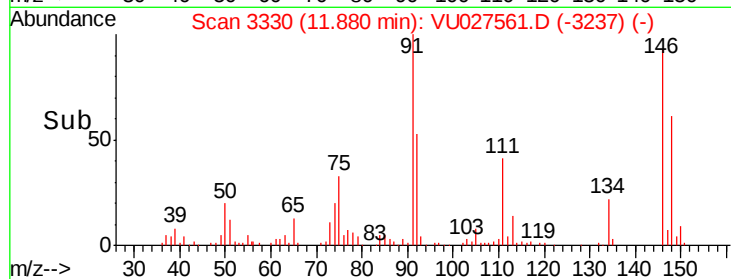
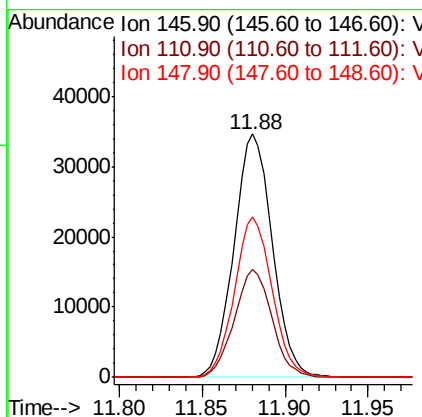
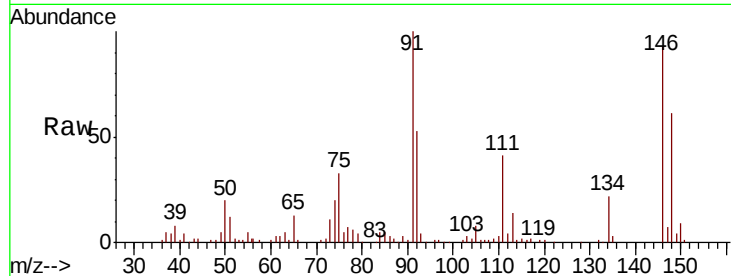
#91
 1,2-Dichlorobenzene
 Concen: 19.652 ug/l
 RT: 11.88 min Scan# 3330
 Delta R.T. -0.00 min
 Lab File: VU027561.D
 Acq: 10 Oct 2018 10:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1010WBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.8	65.4
148	64.5	31.9	95.5

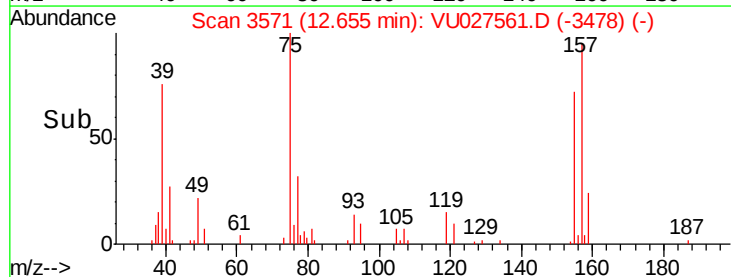
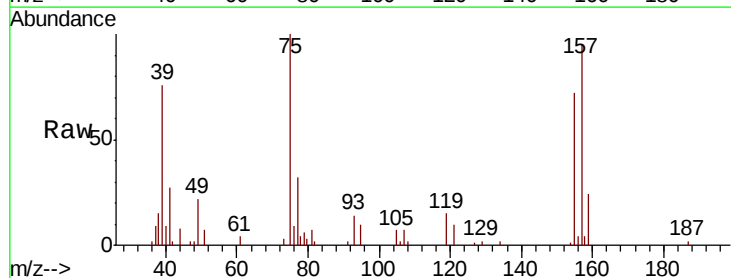
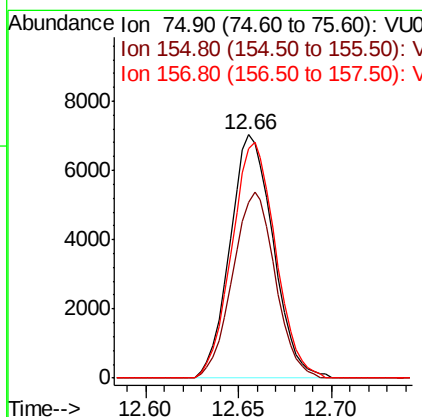
Manual Integrations
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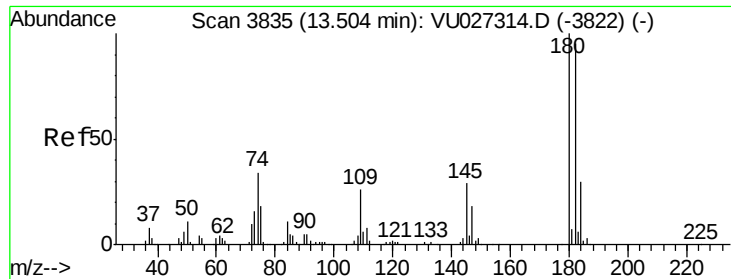
MMDadoda
 10/11/2018 9:02:12 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.749 ug/l
 RT: 12.66 min Scan# 3571
 Delta R.T. -0.00 min
 Lab File: VU027561.D
 Acq: 10 Oct 2018 10:47

Tgt Ion	Ratio	Lower	Upper
75	100		
155	75.2	35.9	107.8
157	97.9	46.9	140.6





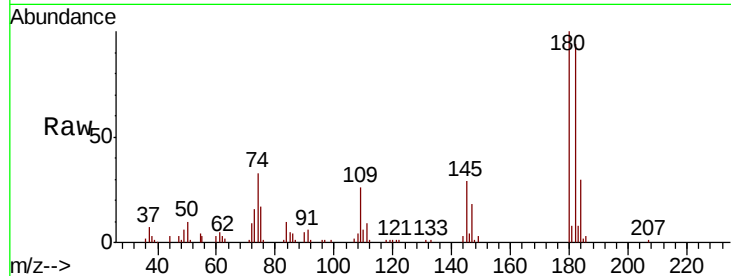
#93
 1,2,4-Trichlorobenzene
 Concen: 19.149 ug/l
 RT: 13.50 min Scan# 3835
 Delta R.T. -0.00 min
 Lab File: VU027561.D
 Acq: 10 Oct 2018 10:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1010WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
180	100	35177		
182	95.6	47.4	142.3	
145	29.0	14.6	44.0	

Manual Integrations
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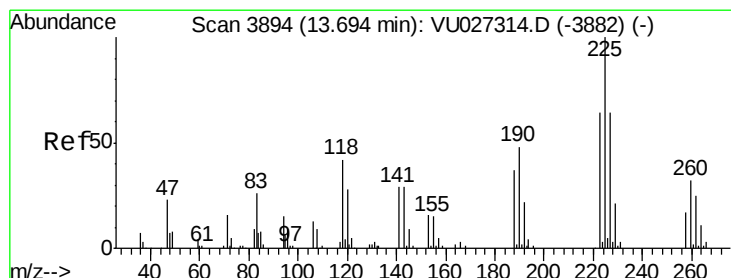
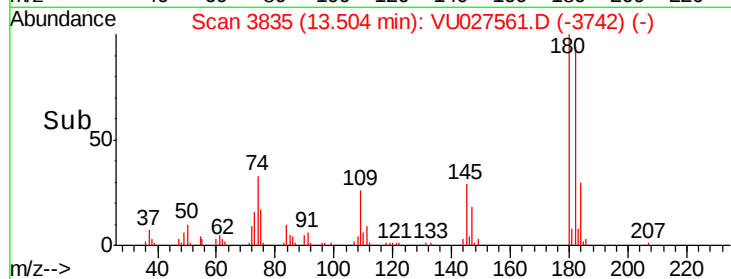
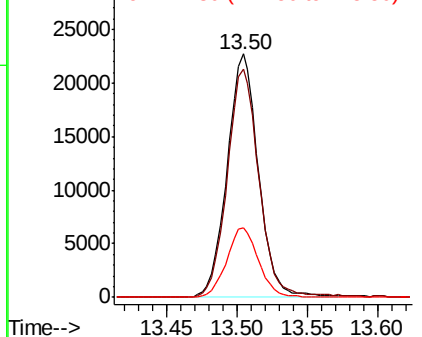


Abundance

Ion 179.80 (179.50 to 180.50): V

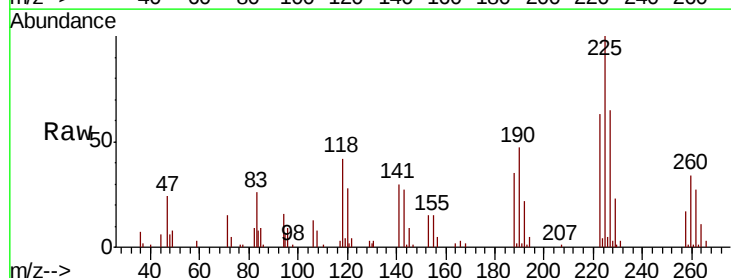
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 19.552 ug/l
 RT: 13.69 min Scan# 3894
 Delta R.T. -0.00 min
 Lab File: VU027561.D
 Acq: 10 Oct 2018 10:47

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	18147		
223	62.9	31.8	95.3	
227	64.2	31.9	95.7	

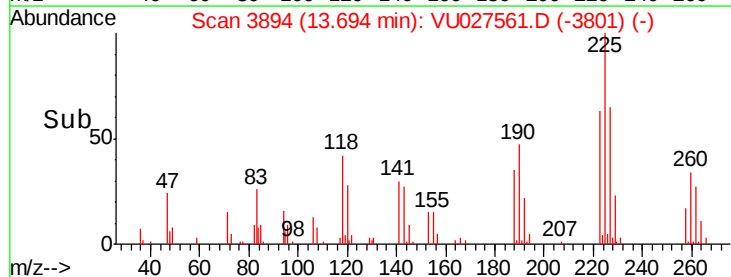
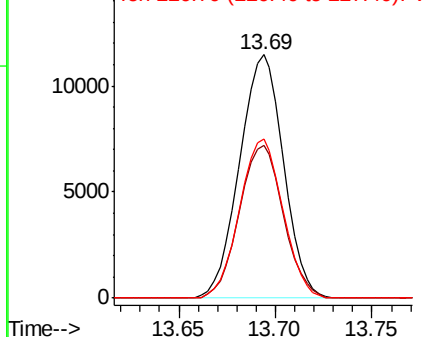


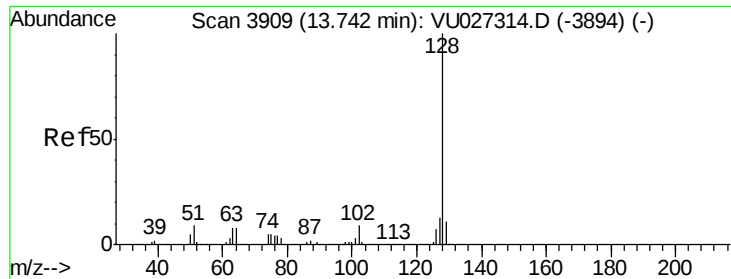
Abundance

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: 19.026 ug/l

RT: 13.74 min Scan# 3909

Delta R.T. -0.00 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

Instrument :

MSVOA_U

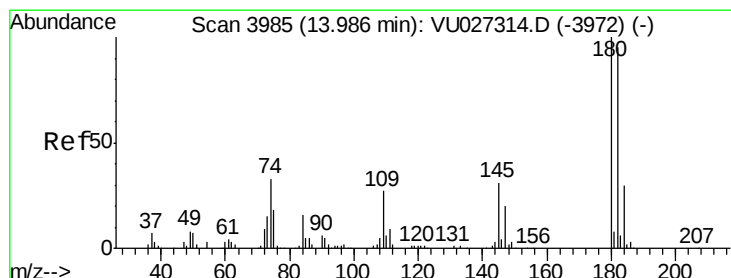
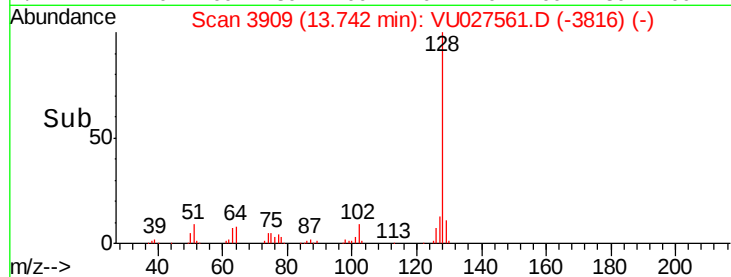
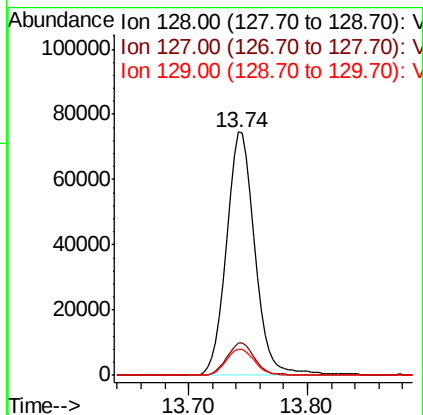
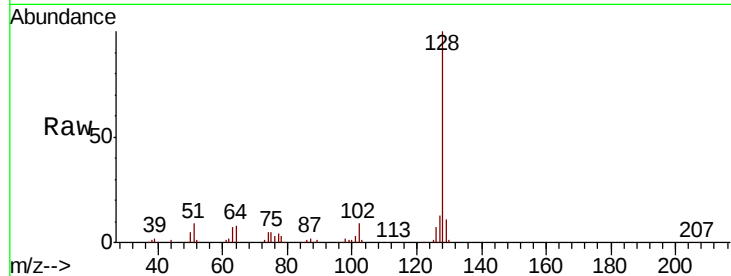
ClientSampleId :

VU1010WBSD02

Tot Ion:	128	Resp:	123924
Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.5	15.7
129	10.9	8.6	12.8

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#96

1,2,3-Trichlorobenzene

Concen: 19.719 ug/l

RT: 13.99 min Scan# 3985

Delta R.T. -0.00 min

Lab File: VU027561.D

Acq: 10 Oct 2018 10:47

Tgt Ion:	180	Resp:	37738
Ion	Ratio	Lower	Upper
180	100		
182	93.8	47.4	142.2
145	30.8	15.9	47.7

