

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071218\
 Data File : VU025344.D
 Acq On : 12 Jul 2018 17:07
 Operator : MD/SY
 Sample : VU0712WBSD02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0712WBSD02

Manual Integrations
 APPROVED

MMDadoda
 7/13/2018 11:44:17 AM

Quant Time: Jul 13 01:57:27 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U070918W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 10 09:34:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	165846	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	249282	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	231315	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	133758	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	125256	48.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.22%	
35) Dibromofluoromethane	4.89	113	103096	49.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.06%	
50) Toluene-d8	7.57	98	332987	46.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.48%	
62) 4-Bromofluorobenzene	10.31	95	135138	46.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.22%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	31567	18.392	ug/l	98
3) Chloromethane	1.33	50	31433	18.737	ug/l	99
4) Vinyl Chloride	1.40	62	34536	18.311	ug/l	99
5) Bromomethane	1.62	94	22554	20.245	ug/l	94
6) Chloroethane	1.70	64	24525	20.619	ug/l	99
7) Trichlorofluoromethane	1.89	101	58851	19.854	ug/l	100
8) Diethyl Ether	2.10	74	22910	20.596	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	2.29	101	36702	19.980	ug/l	99
10) Methyl Iodide	2.41	142	34606	21.943	ug/l	98
11) Tert butyl alcohol	2.82	59	59104	105.150	ug/l	99
12) 1,1-Dichloroethene	2.28	96	32328	19.230	ug/l	98
13) Acrolein	2.19	56	17345	46.644	ug/l	95
14) Allyl chloride	2.59	41	57564	18.881	ug/l	98
15) Acrylonitrile	2.94	53	117576	101.741	ug/l	99
16) Acetone	2.32	43	133830	104.672	ug/l	99
17) Carbon Disulfide	2.48	76	77412	17.080	ug/l	99
18) Methyl Acetate	2.62	43	60910	23.089	ug/l	98
19) Methyl tert-butyl Ether	3.00	73	135998	21.268	ug/l	97
20) Methylene Chloride	2.70	84	40441	20.699	ug/l	98
21) trans-1,2-Dichloroethene	2.99	96	35638	18.551	ug/l	97
22) Diisopropyl ether	3.57	45	130126	20.899	ug/l	96
23) Vinyl Acetate	3.53	43	555725	101.744	ug/l	99
24) 1,1-Dichloroethane	3.45	63	73058	20.805	ug/l	99
25) 2-Butanone	4.26	43	180335	100.976	ug/l	99
26) 2,2-Dichloropropane	4.23	77	69140	20.478	ug/l	97
27) cis-1,2-Dichloroethene	4.23	96	43589	19.610	ug/l	96
28) Bromochloromethane	4.55	49	33877	19.979	ug/l	100
29) Tetrahydrofuran	4.64	42	108401	101.195	ug/l	99
30) Chloroform	4.68	83	78279	21.050	ug/l	98
31) Cyclohexane	5.00	56	62844	19.767	ug/l	95
32) 1,1,1-Trichloroethane	4.92	97	70638	20.960	ug/l	99
36) 1,1-Dichloropropene	5.14	75	52725	19.025	ug/l	98
37) Ethyl Acetate	4.38	43	63862	20.663	ug/l	99
38) Carbon Tetrachloride	5.14	117	60157	20.167	ug/l	98

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Manual Integrations
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.42	83	62487	18.076	ug/l	98
40) Benzene	5.39	78	158901	19.896	ug/l	98
41) Methacrylonitrile	4.54	41	35442	20.683	ug/l	98
42) 1,2-Dichloroethane	5.41	62	65952	20.774	ug/l	100
43) Isopropyl Acetate	5.55	43	101631	20.534	ug/l	100
44) Trichloroethene	6.19	130	43235	18.853	ug/l	98
45) 1,2-Dichloropropane	6.44	63	43420	20.757	ug/l	99
46) Dibromomethane	6.56	93	30785	20.223	ug/l	99
47) Bromodichloromethane	6.76	83	57431	20.309	ug/l	98
48) Methyl methacrylate	6.63	41	51796	20.992	ug/l	99
49) 1,4-Dioxane	6.62	88	24094	405.820	ug/l	97
51) 4-Methyl-2-Pentanone	7.46	43	329645	102.473	ug/l	100
52) Toluene	7.64	92	101070	19.891	ug/l	100
53) t-1,3-Dichloropropene	7.88	75	59138	19.033	ug/l	95
54) cis-1,3-Dichloropropene	7.27	75	64209	19.417	ug/l	98
55) 1,1,2-Trichloroethane	8.07	97	43866	20.729	ug/l	98
56) Ethyl methacrylate	8.02	69	66107	20.001	ug/l	100
57) 1,3-Dichloropropane	8.25	76	71963	20.485	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.13	63	116997	79.778	ug/l	100
59) 2-Hexanone	8.36	43	263179	100.861	ug/l	99
60) Dibromochloromethane	8.48	129	45607	19.956	ug/l	98
61) 1,2-Dibromoethane	8.59	107	45859	20.253	ug/l	99
64) Tetrachloroethene	8.23	164	41323	19.598	ug/l	99
65) Chlorobenzene	9.12	112	116210	20.111	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.21	131	43542	21.065	ug/l	99
67) Ethyl Benzene	9.25	91	197976	20.096	ug/l	99
68) m/p-Xylenes	9.38	106	154605	40.593	ug/l	100
69) o-Xylene	9.78	106	77700	20.377	ug/l	97
70) Styrene	9.80	104	120992	19.976	ug/l	100
71) Bromoform	9.96	173	33943	20.020	ug/l #	99
73) Isopropylbenzene	10.17	105	206504	20.206	ug/l	99
74) N-amyl acetate	10.01	43	85935	21.290	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.46	83	69736	20.857	ug/l	98
76) 1,2,3-Trichloropropane	10.50	75	65808m	24.297	ug/l	
77) Bromobenzene	10.45	156	52563	20.104	ug/l	98
78) n-propylbenzene	10.59	91	227233	20.037	ug/l	99
79) 2-Chlorotoluene	10.66	91	142094	21.903	ug/l	99
80) 1,3,5-Trimethylbenzene	10.78	105	173676	20.196	ug/l	100
81) trans-1,4-Dichloro-2-buten	10.51	75	19159m	17.979	ug/l	
82) 4-Chlorotoluene	10.78	91	160133	19.941	ug/l	99
83) tert-Butylbenzene	11.10	119	179014	20.600	ug/l	99
84) 1,2,4-Trimethylbenzene	11.15	105	176707	20.050	ug/l	99
85) sec-Butylbenzene	11.33	105	209511	20.476	ug/l	99
86) p-Isopropyltoluene	11.48	119	181562	20.040	ug/l	99
87) 1,3-Dichlorobenzene	11.42	146	92193	19.294	ug/l	100
88) 1,4-Dichlorobenzene	11.51	146	91821	20.576	ug/l	97
89) n-Butylbenzene	11.89	91	137282	18.433	ug/l	99
90) Hexachloroethane	12.15	117	28502	18.579	ug/l	100
91) 1,2-Dichlorobenzene	11.88	146	98363	20.383	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	12.66	75	16270	20.063	ug/l	96

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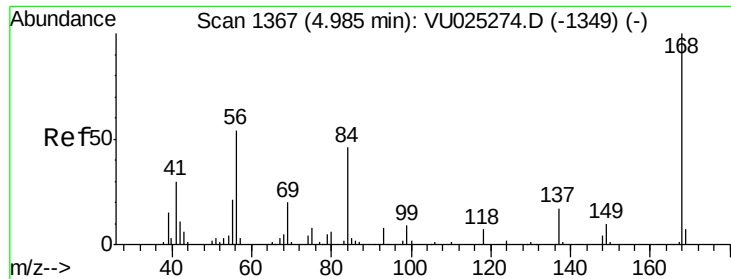
Manual Integrations
APPROVED

MMDadoda
7/13/2018 11:44:17 AM

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Quant Title : SW846 8260
QLast Update : Tue Jul 10 09:34:16 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.51	180	54253	18.970	ug/l	98
94) Hexachlorobutadiene	13.70	225	32791	18.999	ug/l	98
95) Naphthalene	13.74	128	177492	19.614	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	58759	19.533	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

Instrument :

MSVOA_U

ClientSampleId :

VU0712WBSD02

Tot Ion:168 Resp: 165846

Ion Ratio Lower Upper

168 100

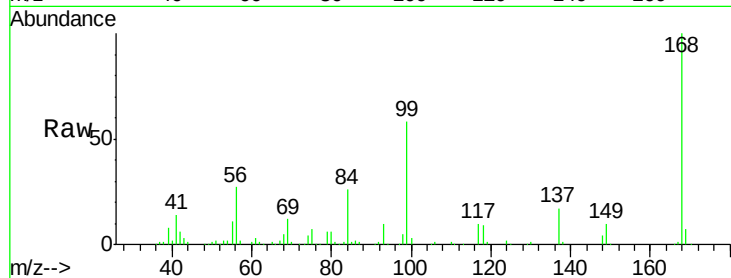
99 57.5 42.8 64.2

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VU025274.D (-1349) (-)

Ion 98.90 (98.60 to 99.60): VU025274.D (-1349) (-)

80000

60000

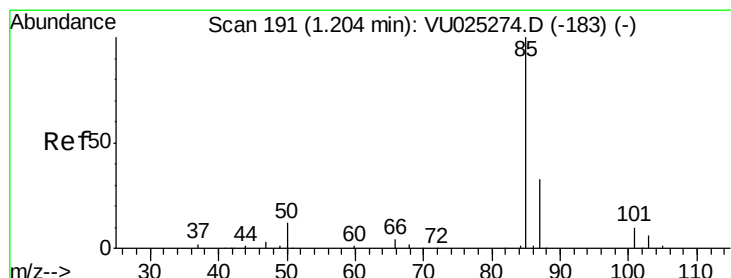
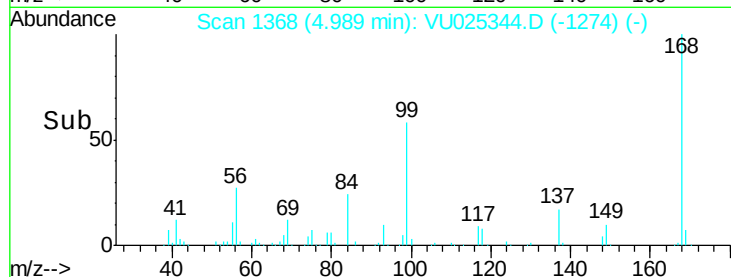
40000

20000

0

4.90 4.99 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 18.392 ug/l

RT: 1.21 min Scan# 192

Delta R.T. 0.00 min

Lab File: VU025344.D

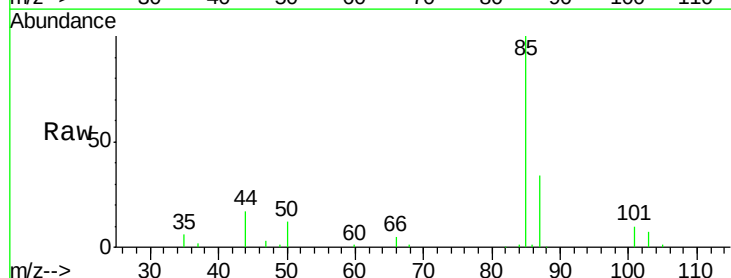
Acq: 12 Jul 2018 17:07

Tgt Ion: 85 Resp: 31567

Ion Ratio Lower Upper

85 100

87 34.3 16.5 49.5



Abundance Ion 84.90 (84.60 to 85.60): VU025274.D (-183) (-)

Ion 86.90 (86.60 to 87.60): VU025274.D (-183) (-)

30000

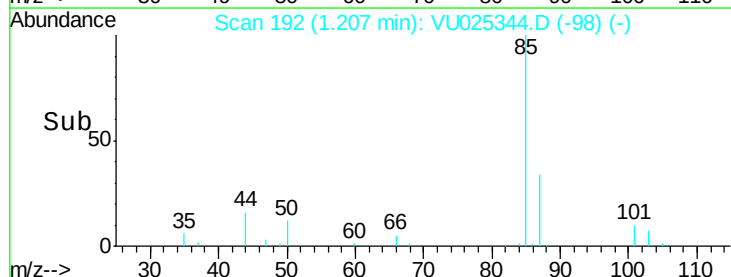
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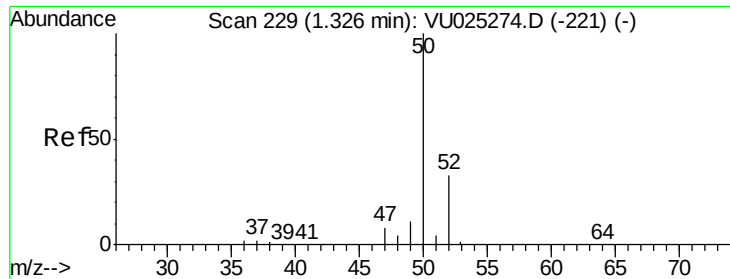
10000

0

1.15 1.20 1.25

Time-->





#3

Chloromethane

Concen: 18.737 ug/l

RT: 1.33 min Scan# 229

Delta R.T. 0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

Tot Ion: 50 Resp: 31433

Ion Ratio Lower Upper

50 100

52 33.6 26.5 39.7

Instrument :

MSVOA_U

ClientSampleId :

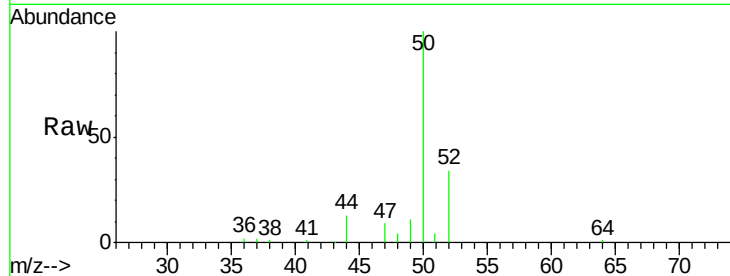
VU0712WBSD02

Manual Integrations

APPROVED

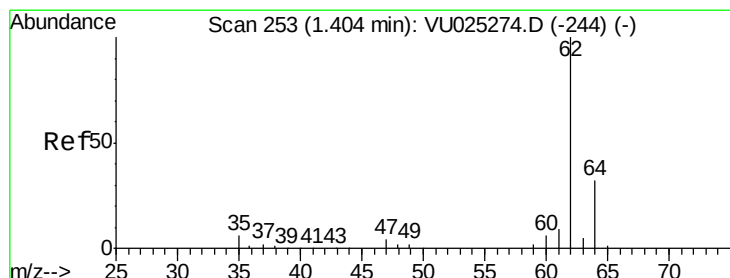
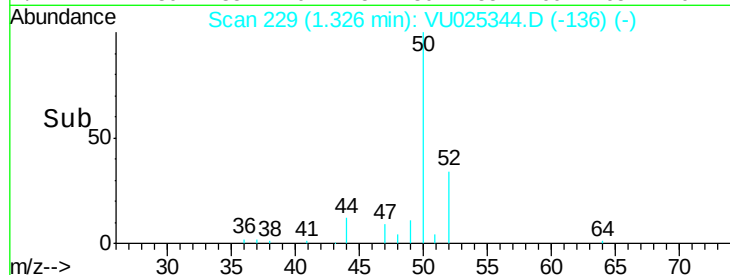
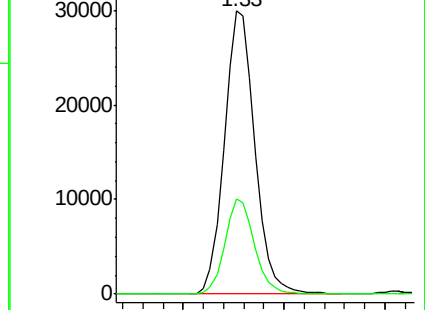
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Abundance Ion 49.90 (49.60 to 50.60): VU0

Ion 51.90 (51.60 to 52.60): VU0



#4

Vinyl Chloride

Concen: 18.311 ug/l

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU025344.D

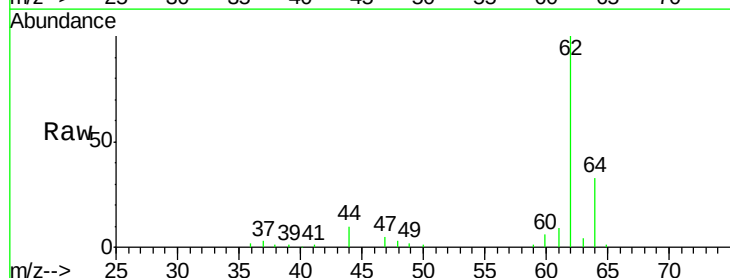
Acq: 12 Jul 2018 17:07

Tgt Ion: 62 Resp: 34536

Ion Ratio Lower Upper

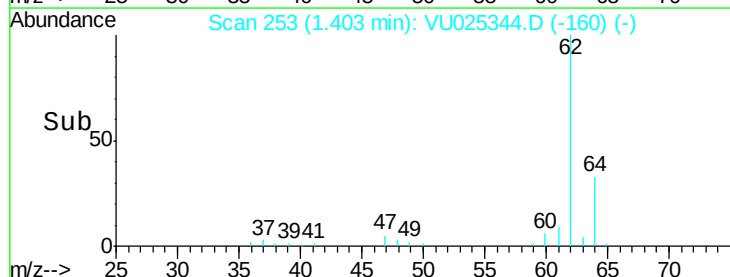
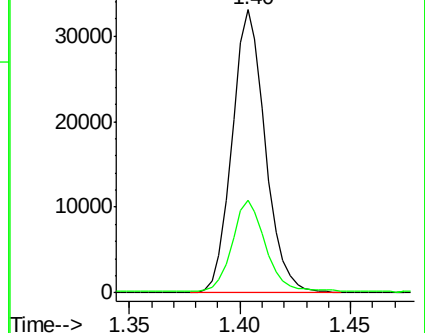
62 100

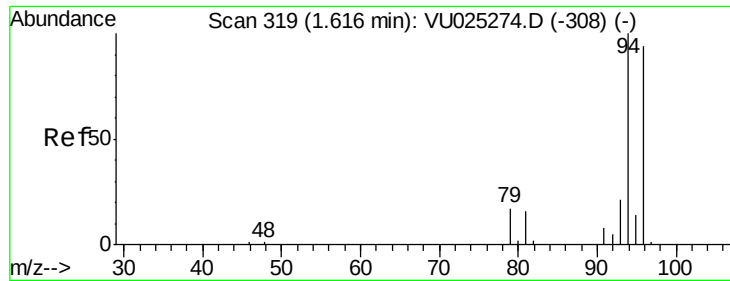
64 32.2 25.4 38.0



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0





#5

Bromomethane

Concen: 20.245 ug/l

RT: 1.62 min Scan# 321

Delta R.T. 0.01 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

Instrument :

MSVOA_U

ClientSampleId :

VU0712WBSD02

Tot Ion: 94 Resp: 22554

Ion Ratio Lower Upper

94 100

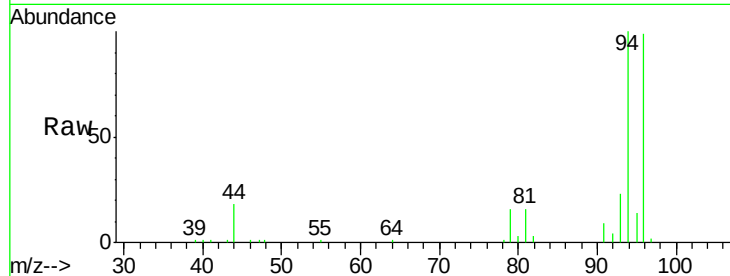
96 99.5 75.0 112.4

Manual Integrations

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7/13/2018 11:44:17 AM



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.62

20000

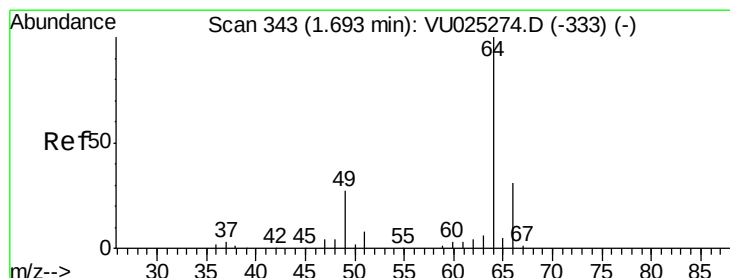
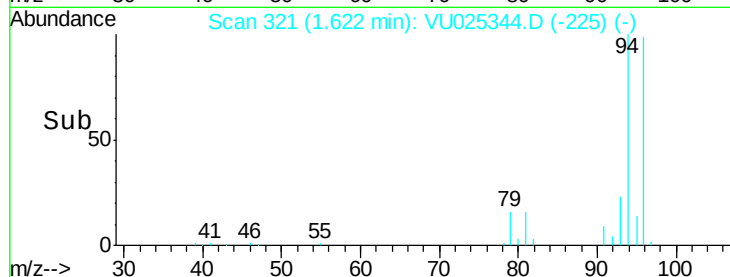
15000

10000

5000

0

Time-->



#6

Chloroethane

Concen: 20.619 ug/l

RT: 1.70 min Scan# 344

Delta R.T. 0.00 min

Lab File: VU025344.D

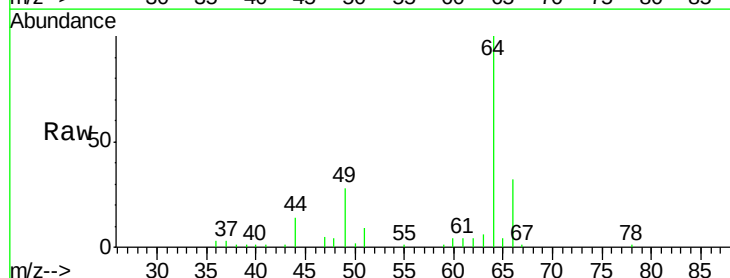
Acq: 12 Jul 2018 17:07

Tgt Ion: 64 Resp: 24525

Ion Ratio Lower Upper

64 100

66 31.6 25.0 37.4



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

1.70

20000

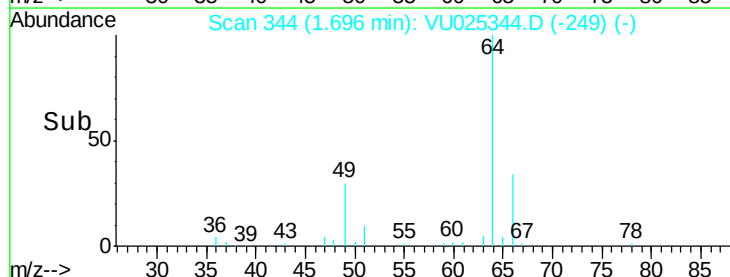
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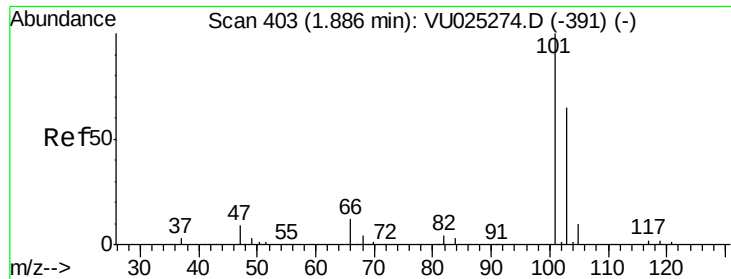
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5000

0

Time-->





#7

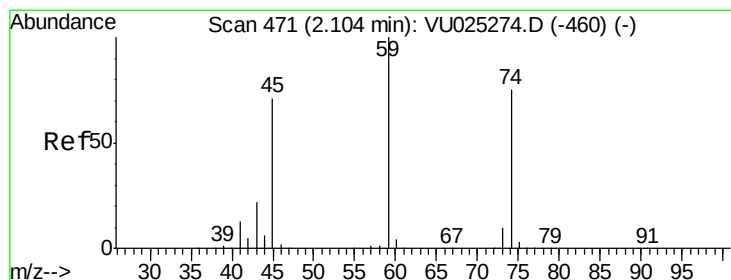
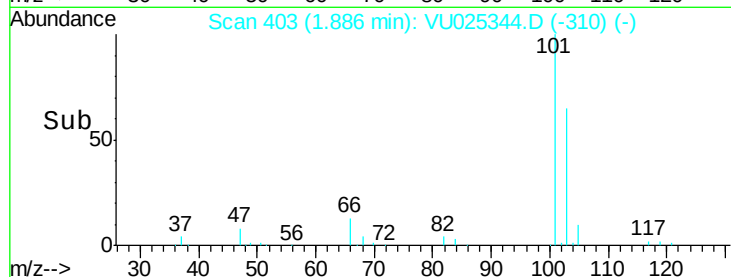
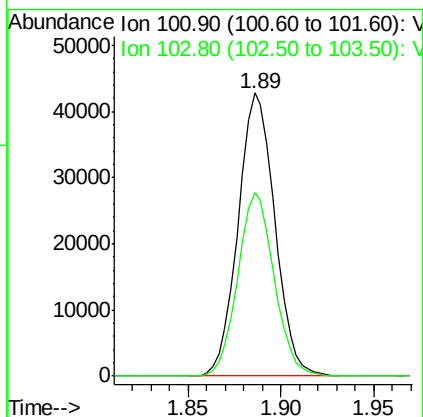
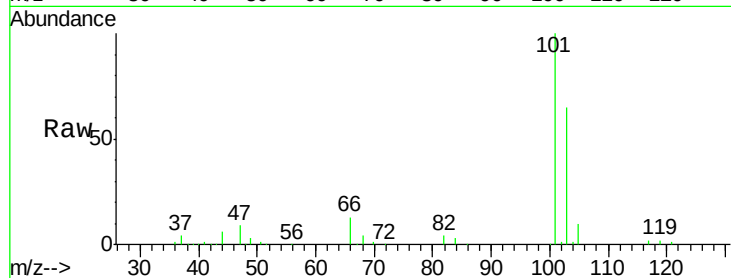
Trichlorofluoromethane
Concen: 19.854 ug/l
RT: 1.89 min Scan# 403
Delta R.T. -0.00 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBSD02

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.9	52.2	78.2

Manual Integrations
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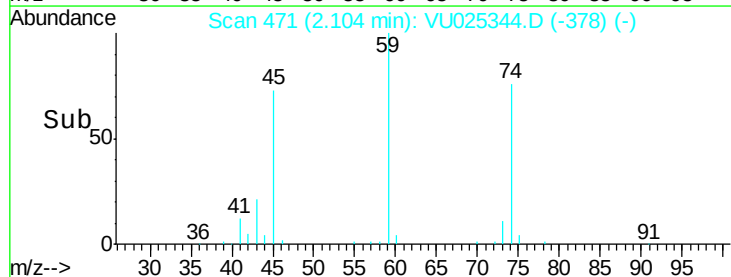
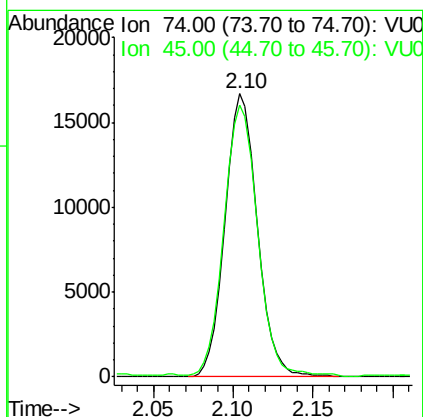
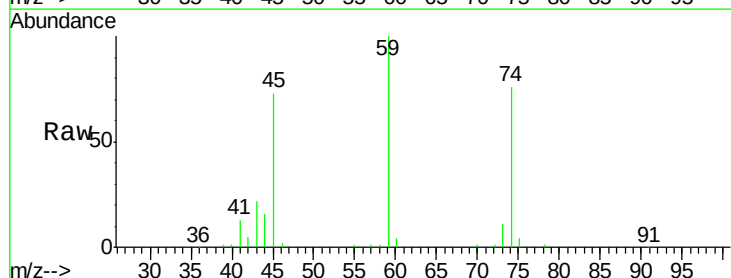
MMDadoda
7/13/2018 11:44:17 AM

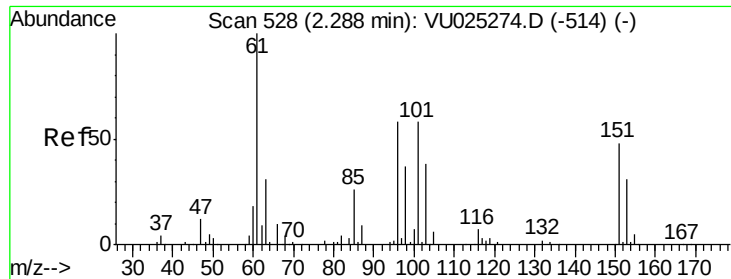


#8

Diethyl Ether
Concen: 20.596 ug/l
RT: 2.10 min Scan# 471
Delta R.T. -0.00 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Tgt Ion	Ratio	Lower	Upper
74	100		
45	100.9	48.3	144.9





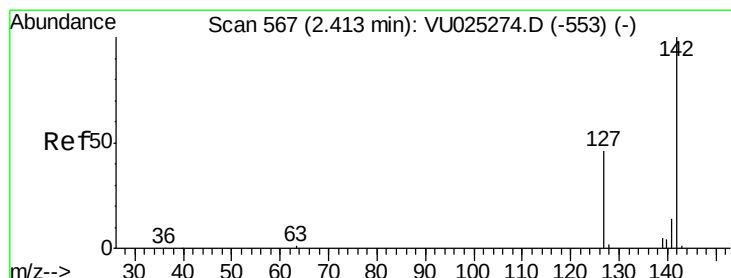
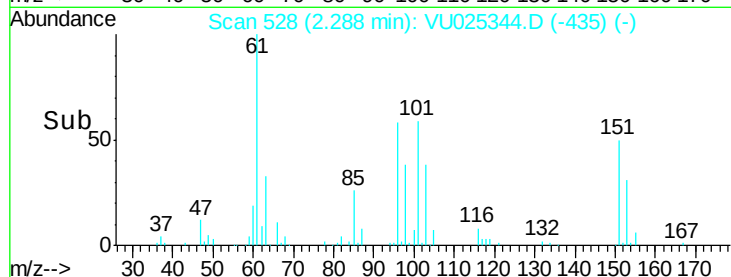
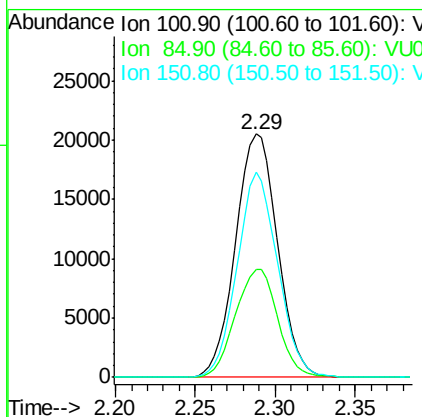
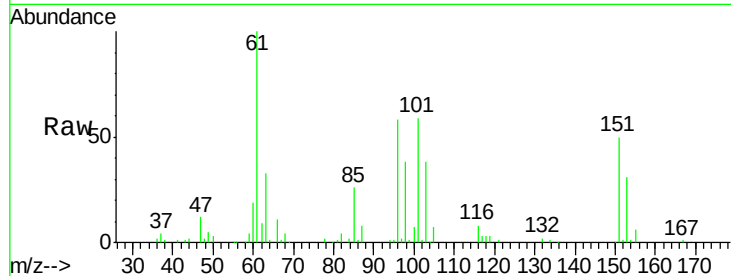
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.980 ug/l
RT: 2.29 min Scan# 528
Delta R.T. -0.00 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Instrument :
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Tot Ion	Ratio	Lower	Upper
101	100		
85	44.6	36.0	54.0
151	81.3	65.6	98.4

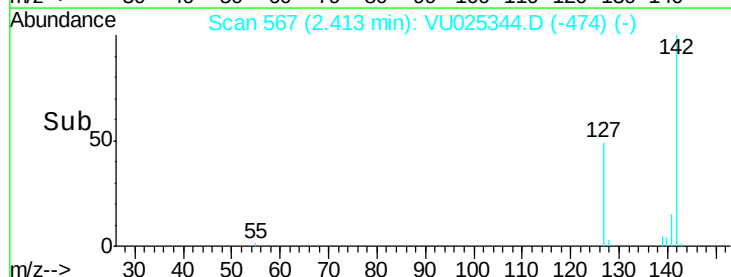
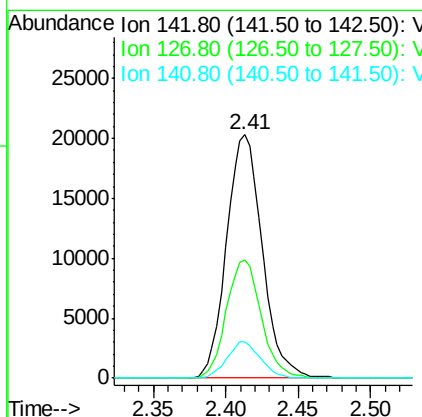
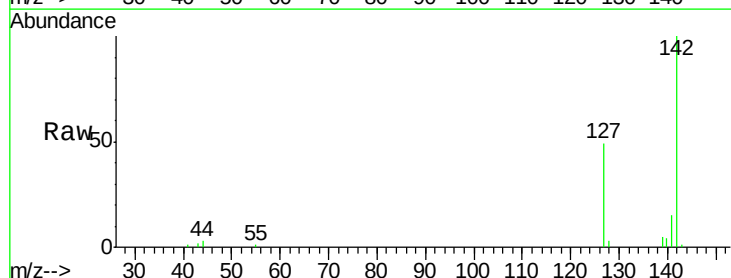
Manual Integrations
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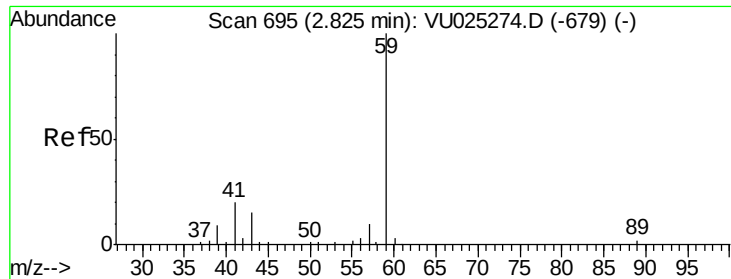
MMDadoda
7/13/2018 11:44:17 AM



#10
Methyl Iodide
Concen: 21.943 ug/l
RT: 2.41 min Scan# 567
Delta R.T. 0.00 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Tgt Ion	Ratio	Lower	Upper
142	100		
127	47.1	36.5	54.7
141	13.9	11.4	17.2





#11

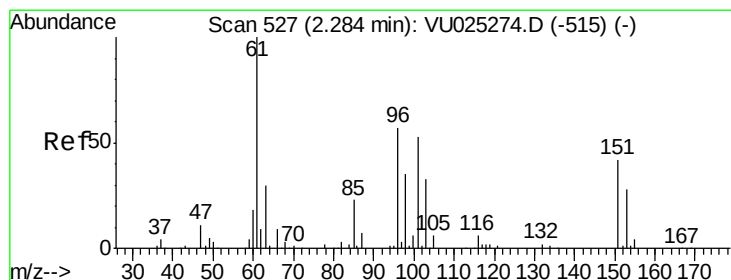
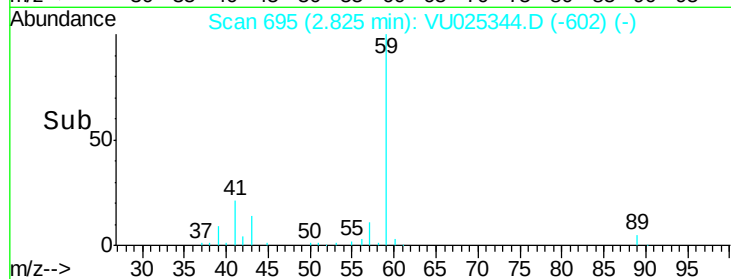
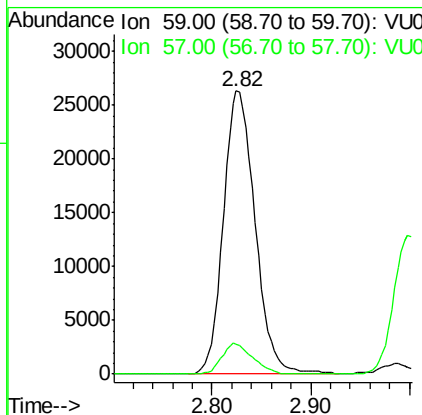
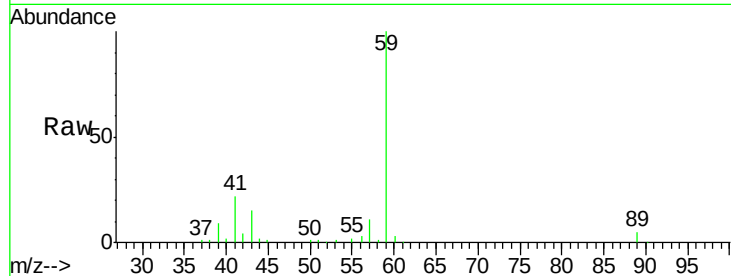
Tert butyl alcohol
 Concen: 105.150 ug/l
 RT: 2.82 min Scan# 695
 Delta R.T. 0.00 min
 Lab File: VU025344.D
 Acq: 12 Jul 2018 17:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0712WBSD02

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.5	8.2	12.2

Manual Integrations
 APPROVED

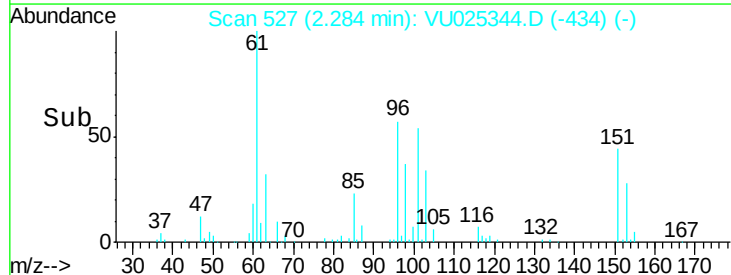
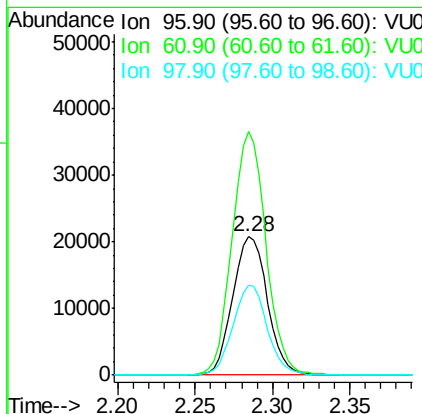
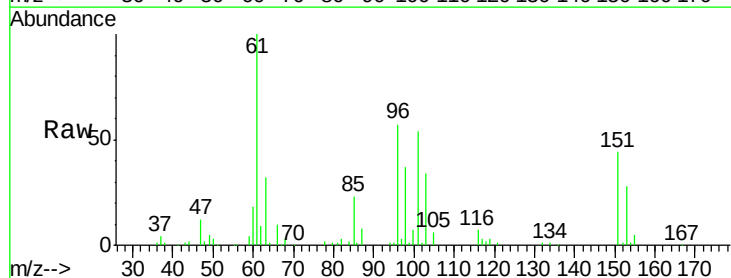
MMDadoda
 7/13/2018 11:44:17 AM

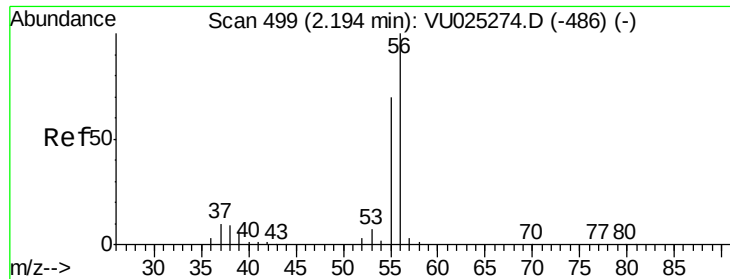


#12

1,1-Dichloroethene
 Concen: 19.230 ug/l
 RT: 2.28 min Scan# 527
 Delta R.T. -0.00 min
 Lab File: VU025344.D
 Acq: 12 Jul 2018 17:07

Tgt Ion	Ratio	Lower	Upper
96	100		
61	175.9	140.2	210.4
98	65.3	49.3	73.9





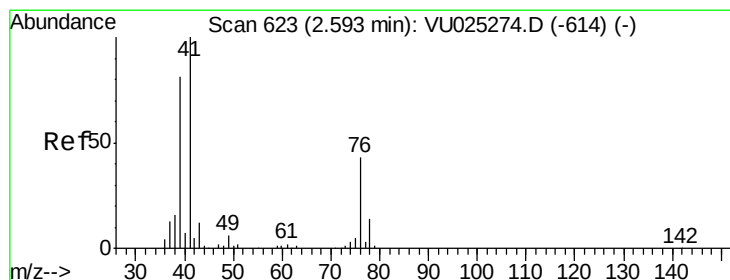
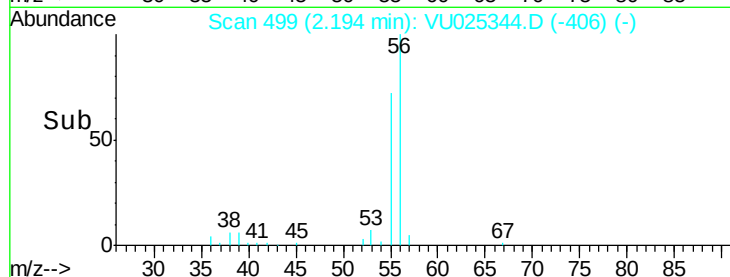
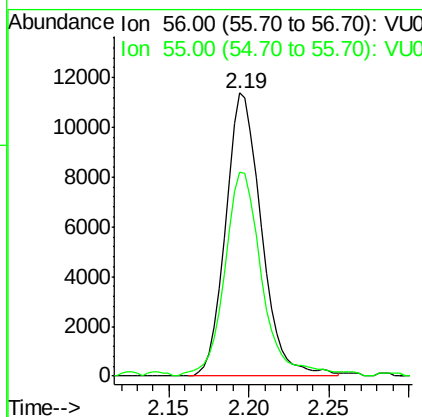
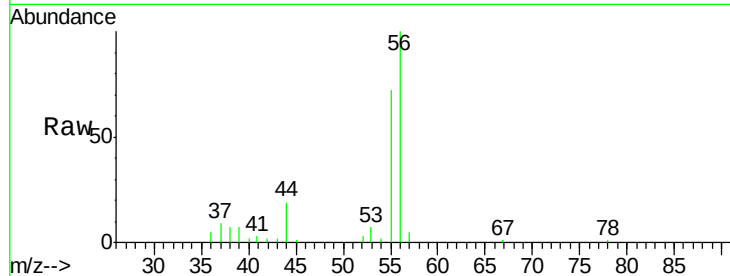
#13
Acrolein
Concen: 46.644 ug/l
RT: 2.19 min Scan# 499
Delta R.T. 0.00 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBSD02

Tot Ion	56	Resp	17345
Ion Ratio	100	Lower	Upper
55	75.6	57.2	85.8

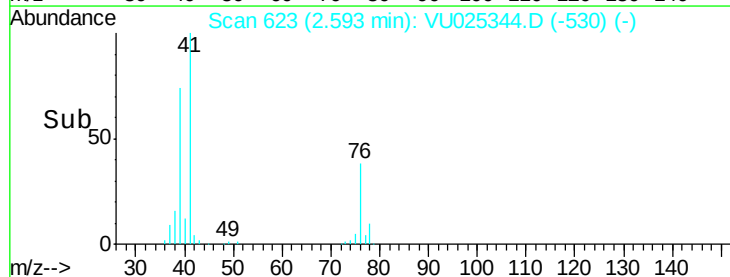
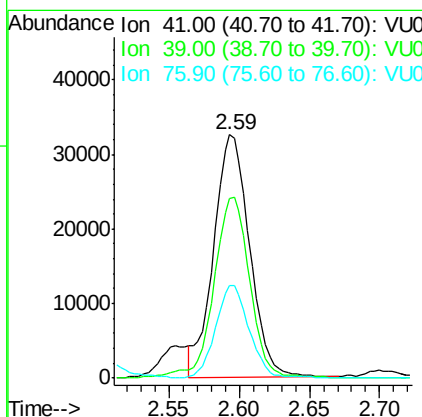
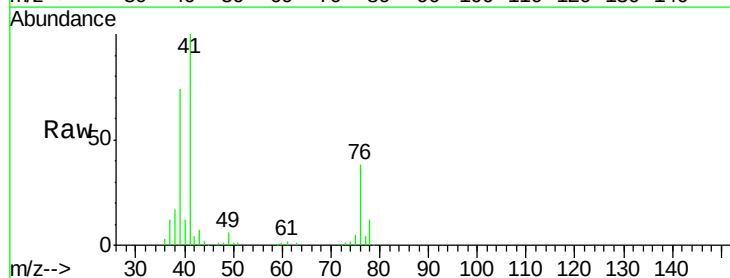
Manual Integrations
APPROVED

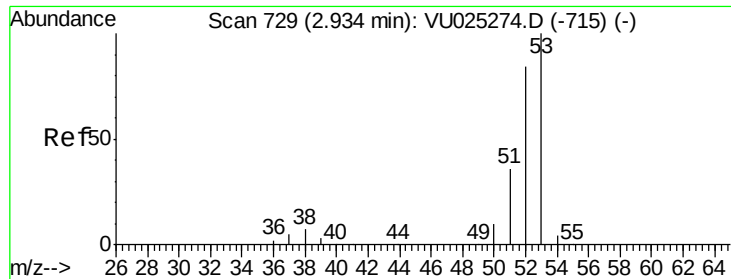
MMDadoda
7/13/2018 11:44:17 AM



#14
Allyl chloride
Concen: 18.881 ug/l
RT: 2.59 min Scan# 623
Delta R.T. -0.00 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Tgt Ion	41	Resp	57564
Ion Ratio	100	Lower	Upper
39	75.0	60.6	91.0
76	35.8	30.5	45.7





#15

Acrylonitrile

Concen: 101.741 ug/l

RT: 2.94 min Scan# 730

Delta R.T. 0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

Instrument :

MSVOA_U

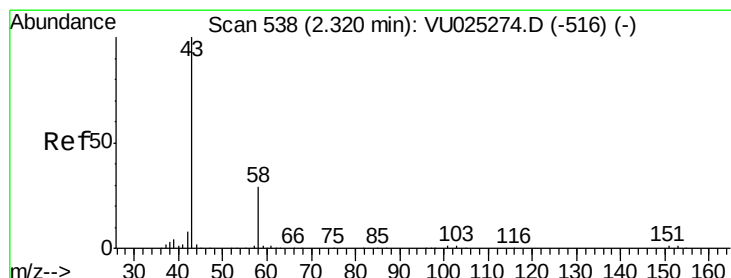
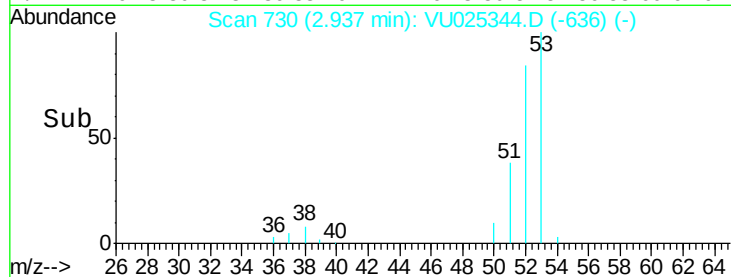
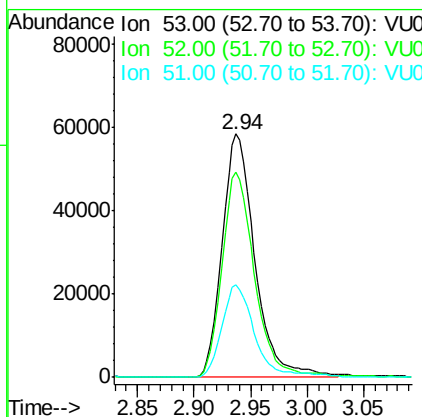
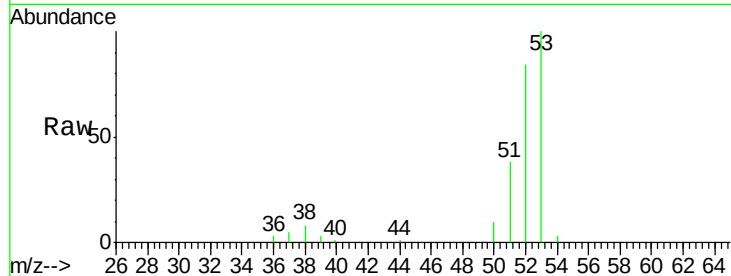
ClientSampleId :

VU0712WBSD02

Tot Ion:	53	Resp:	117576
Ion	Ratio	Lower	Upper
53	100		
52	83.8	66.6	99.8
51	38.2	29.4	44.2

Manual Integrations
APPROVED

MMDadoda
7/13/2018 11:44:17 AM



#16

Acetone

Concen: 104.672 ug/l

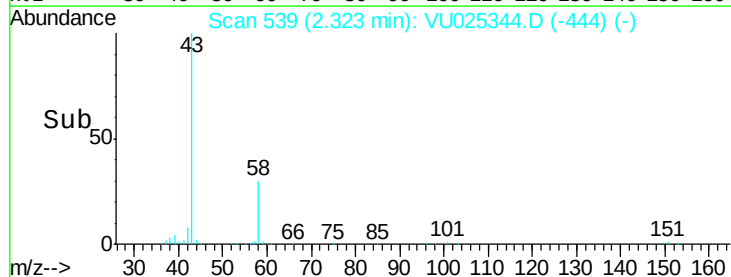
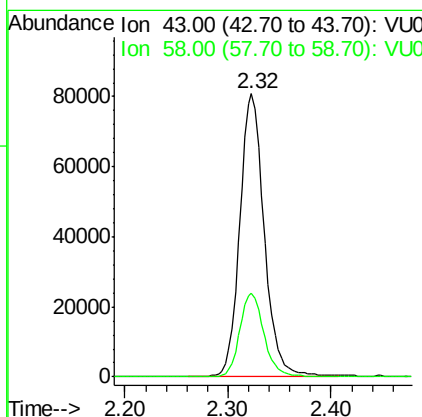
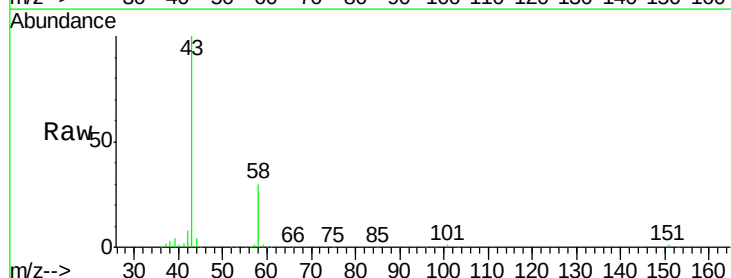
RT: 2.32 min Scan# 539

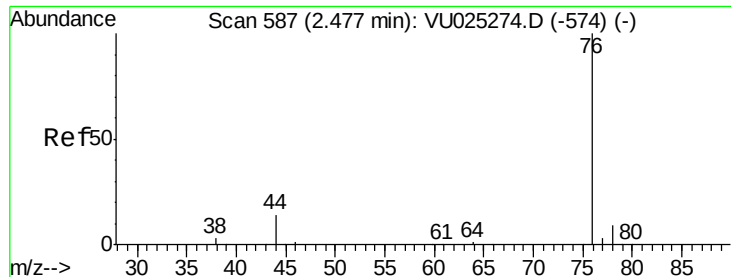
Delta R.T. 0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

Tgt Ion:	43	Resp:	133830
Ion	Ratio	Lower	Upper
43	100		
58	29.5	23.1	34.7





#17

Carbon Disulfide

Concen: 17.080 ug/l

RT: 2.48 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

Instrument :

MSVOA_U

ClientSampleId :

VU0712WBSD02

Tot Ion: 76 Resp: 77412

Ion Ratio Lower Upper

76 100

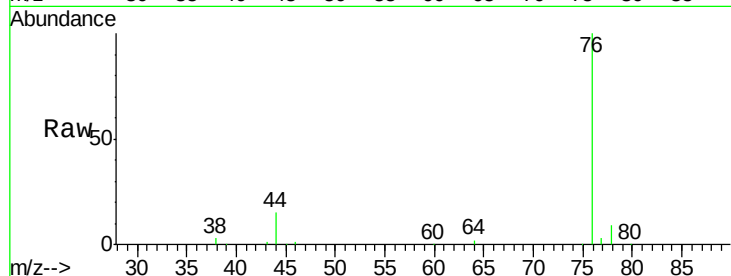
78 8.8 7.4 11.2

Manual Integrations

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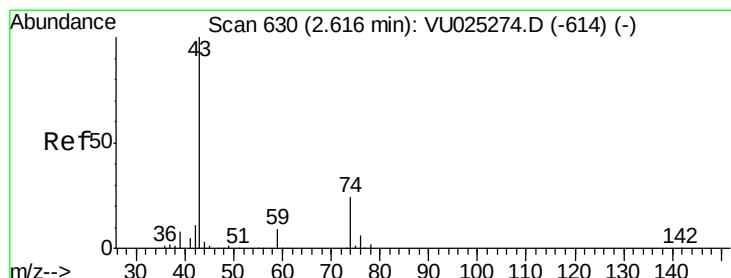
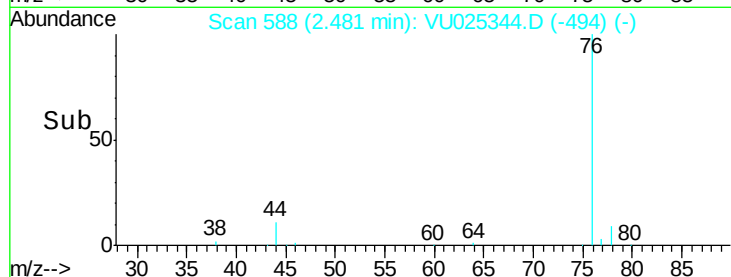
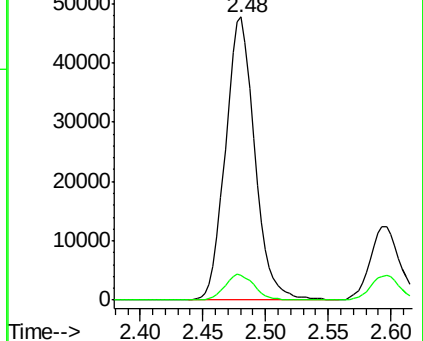
MMDadoda

7/13/2018 11:44:17 AM



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#18

Methyl Acetate

Concen: 23.089 ug/l

RT: 2.62 min Scan# 630

Delta R.T. -0.00 min

Lab File: VU025344.D

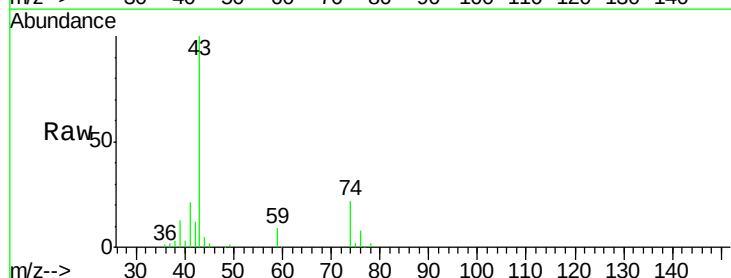
Acq: 12 Jul 2018 17:07

Tgt Ion: 43 Resp: 60910

Ion Ratio Lower Upper

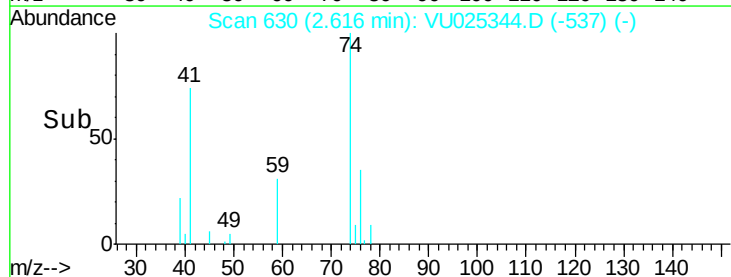
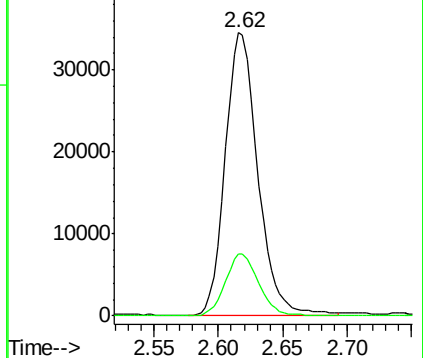
43 100

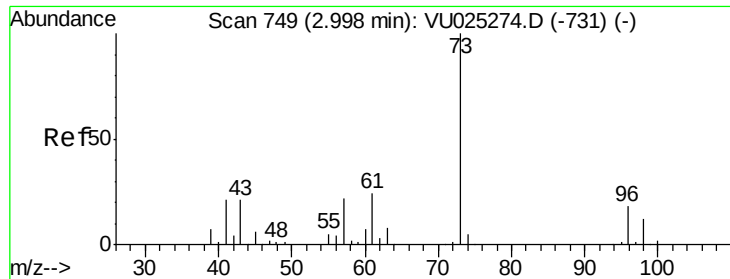
74 22.0 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0





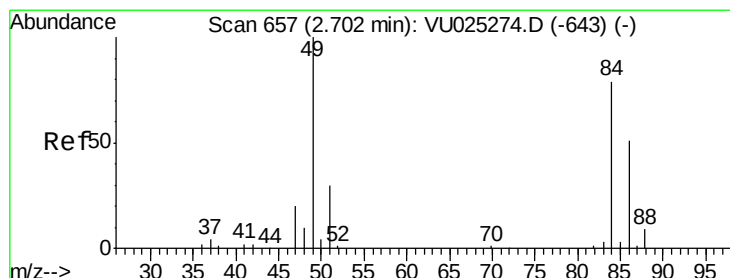
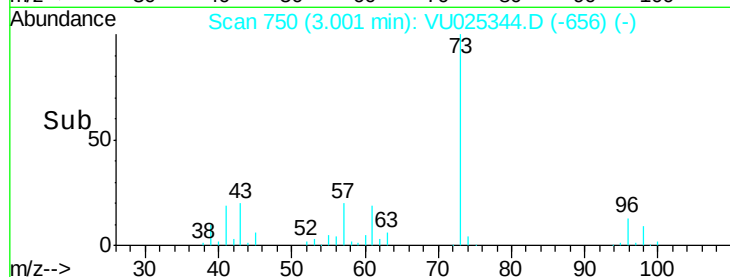
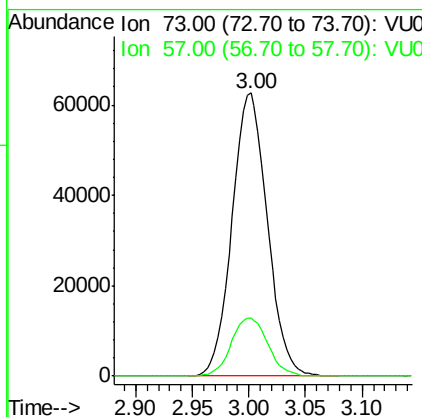
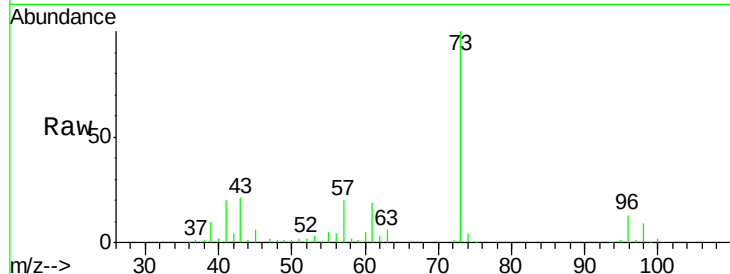
#19
Methyl tert-butyl Ether
Concen: 21.268 ug/l
RT: 3.00 min Scan# 750
Delta R.T. 0.00 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBSD02

Tot Ion: 73 Resp: 135998
Ion Ratio Lower Upper
73 100
57 20.5 17.4 26.2

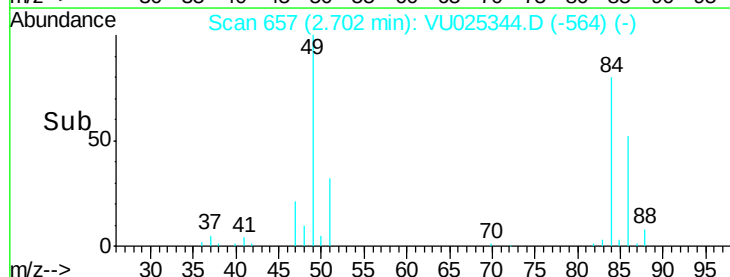
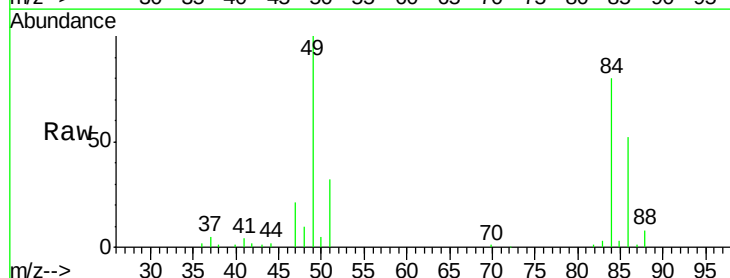
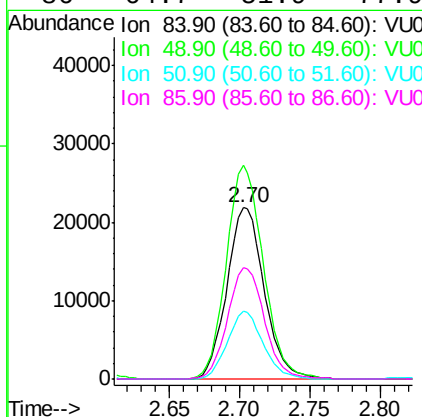
Manual Integrations
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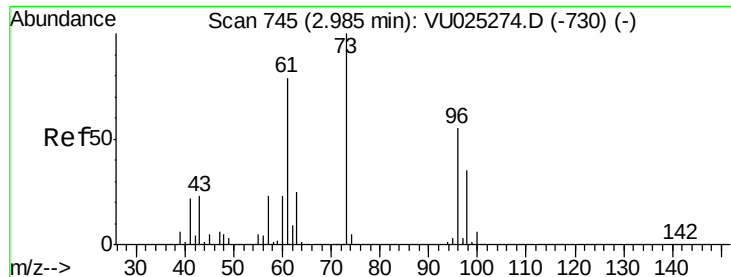
MMDadoda
7/13/2018 11:44:17 AM



#20
Methylene Chloride
Concen: 20.699 ug/l
RT: 2.70 min Scan# 657
Delta R.T. 0.00 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Tgt Ion: 84 Resp: 40441
Ion Ratio Lower Upper
84 100
49 124.9 101.8 152.6
51 39.7 30.8 46.2
86 64.7 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 18.551 ug/l

RT: 2.99 min Scan# 745

Delta R.T. -0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

Instrument :

MSVOA_U

ClientSampleId :

VU0712WBSD02

Tot Ion: 96 Resp: 35638

Ion Ratio Lower Upper

96 100

61 146.6 114.5 171.7

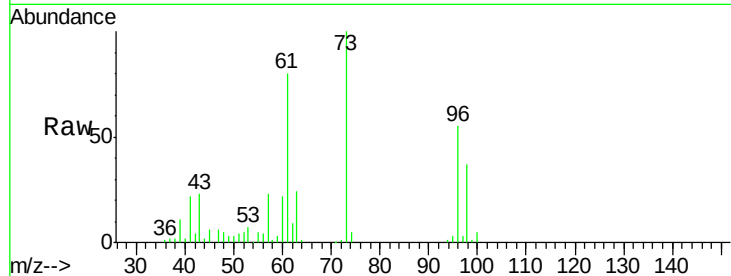
98 66.7 50.5 75.7

Manual Integrations

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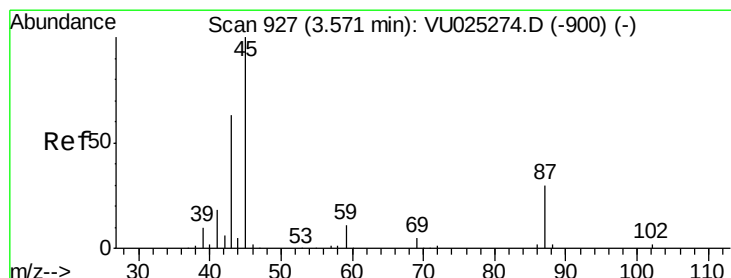
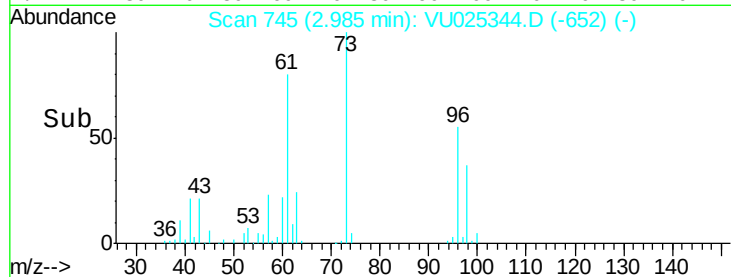
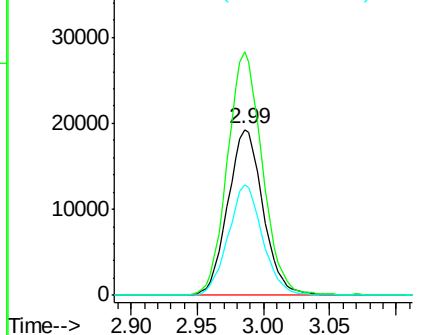
7/13/2018 11:44:17 AM



Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0



#22

Diisopropyl ether

Concen: 20.899 ug/l

RT: 3.57 min Scan# 927

Delta R.T. -0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

Tgt Ion: 45 Resp: 130126

Ion Ratio Lower Upper

45 100

43 66.9 50.9 76.3

87 27.8 23.8 35.8

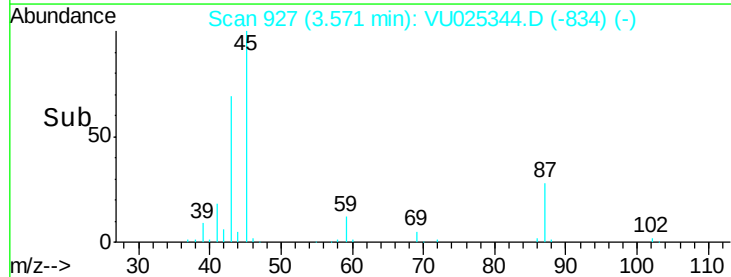
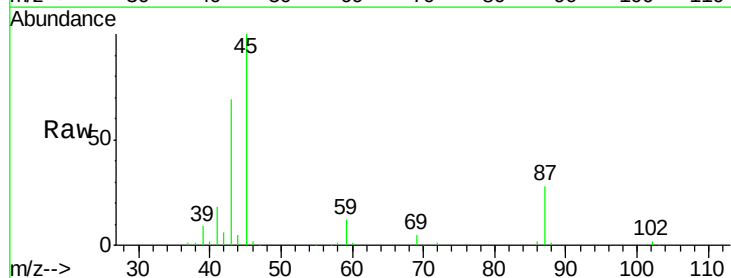
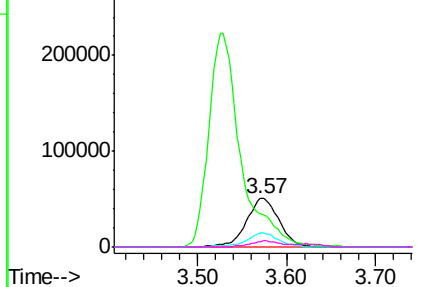
59 11.7 9.0 13.4

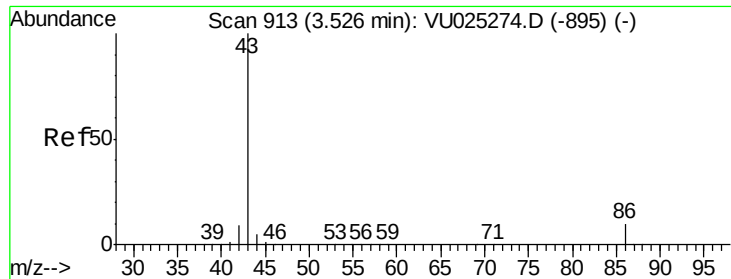
Abundance Ion 45.00 (44.70 to 45.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

Ion 59.00 (58.70 to 59.70): VU0





#23

Vinyl Acetate

Concen: 101.744 ug/l

RT: 3.53 min Scan# 913

Delta R.T. -0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

Tot Ion: 43 Resp: 555725

Ion Ratio Lower Upper

43 100

86 10.6 8.2 12.2

Instrument :

MSVOA_U

ClientSampleId :

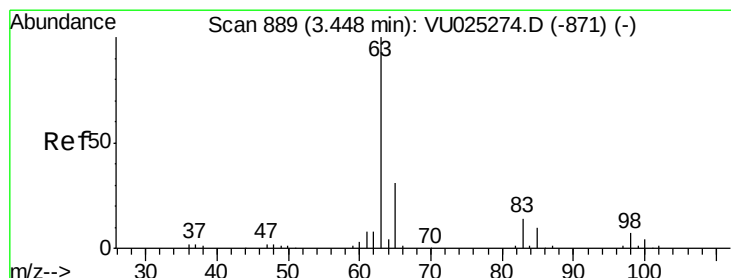
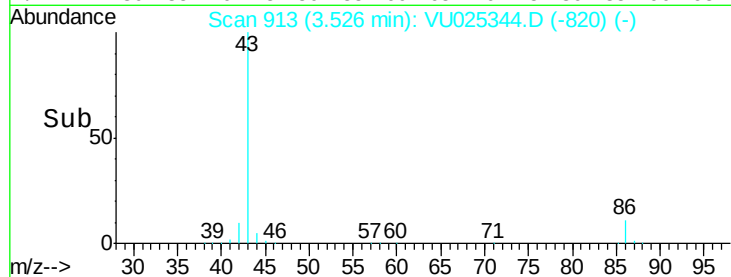
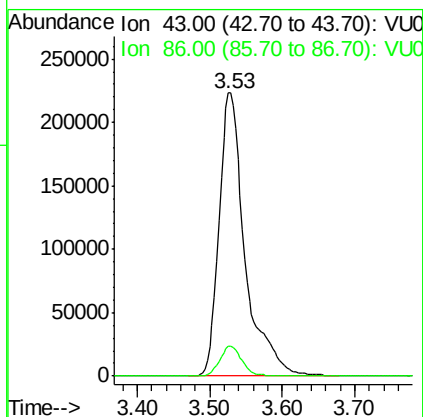
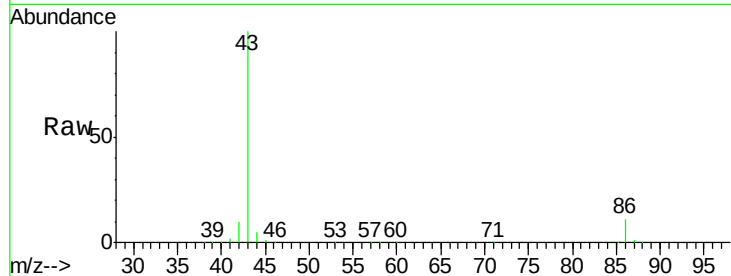
VU0712WBSD02

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 20.805 ug/l

RT: 3.45 min Scan# 890

Delta R.T. 0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

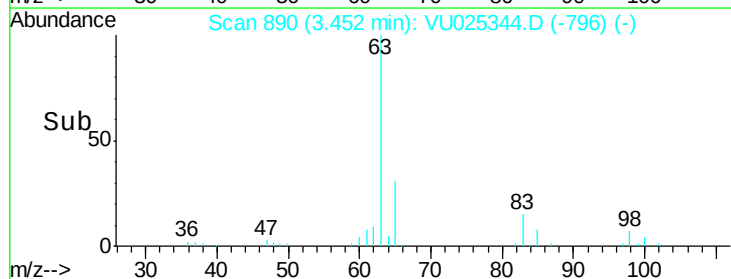
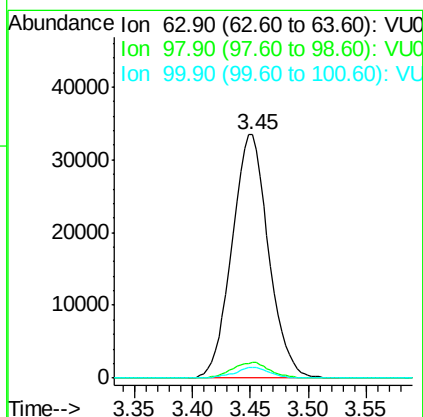
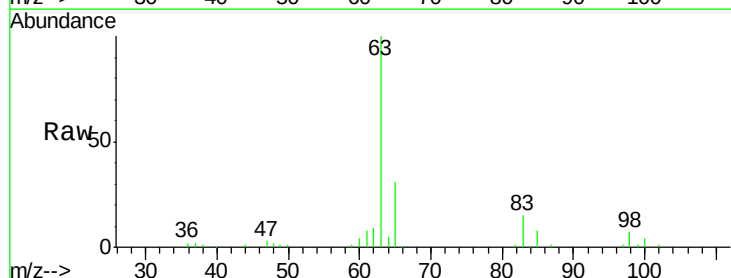
Tgt Ion: 63 Resp: 73058

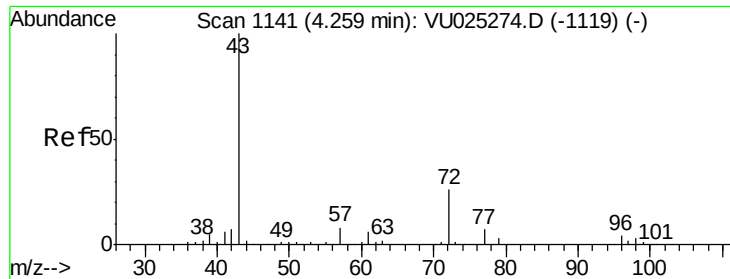
Ion Ratio Lower Upper

63 100

98 6.5 3.4 10.1

100 4.3 2.0 6.0





#25

2-Butanone

Concen: 100.976 ug/l

RT: 4.26 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

Instrument :

MSVOA_U

ClientSampleId :

VU0712WBSD02

Tot Ion: 43 Resp: 180335

Ion Ratio Lower Upper

43 100

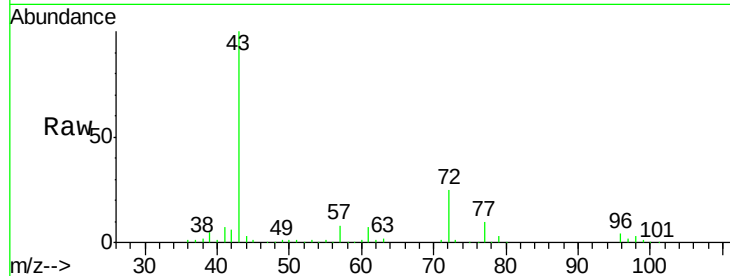
72 25.4 21.0 31.4

Manual Integrations

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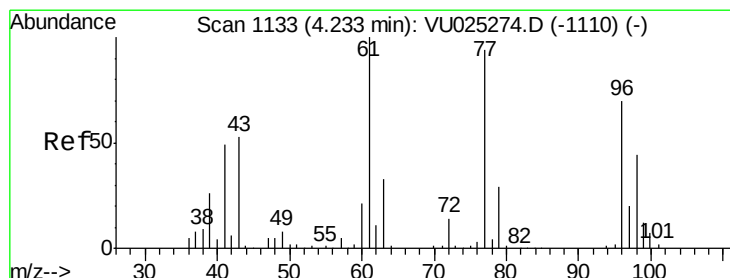
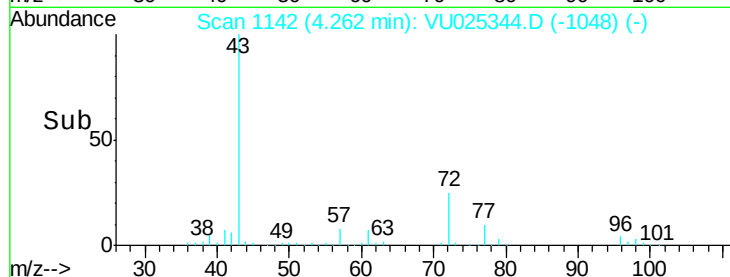
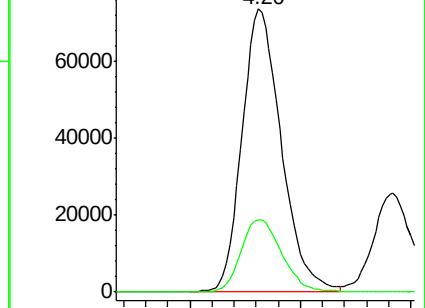
MMDadoda

7/13/2018 11:44:17 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: 20.478 ug/l

RT: 4.23 min Scan# 1133

Delta R.T. -0.00 min

Lab File: VU025344.D

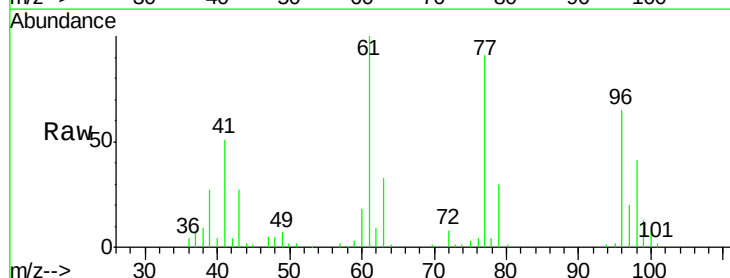
Acq: 12 Jul 2018 17:07

Tgt Ion: 77 Resp: 69140

Ion Ratio Lower Upper

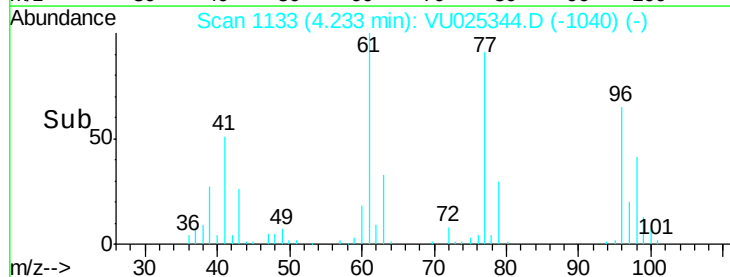
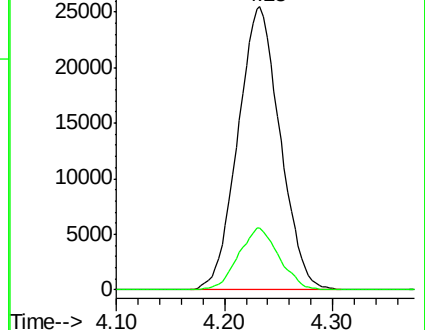
77 100

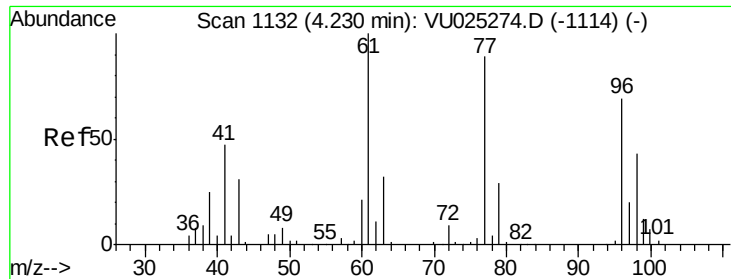
97 20.9 11.2 33.5



Abundance Ion 76.90 (76.60 to 77.60): VU0

Ion 96.90 (96.60 to 97.60): VU0





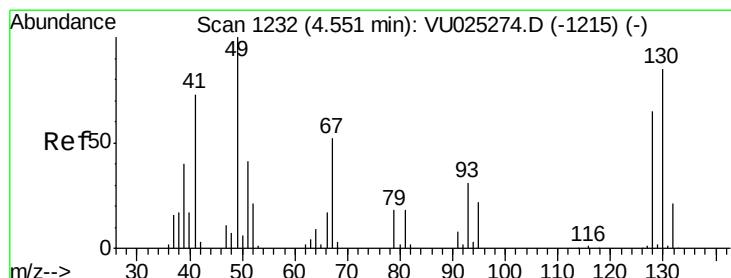
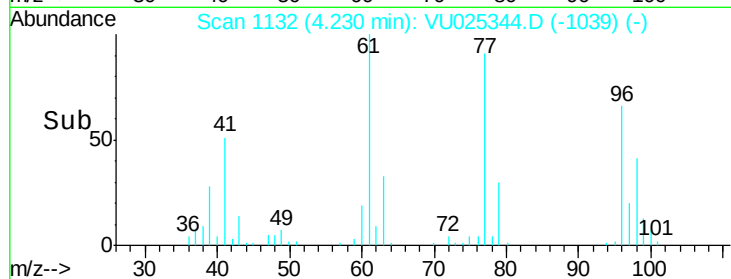
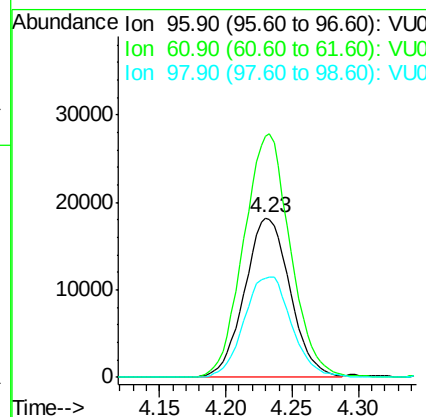
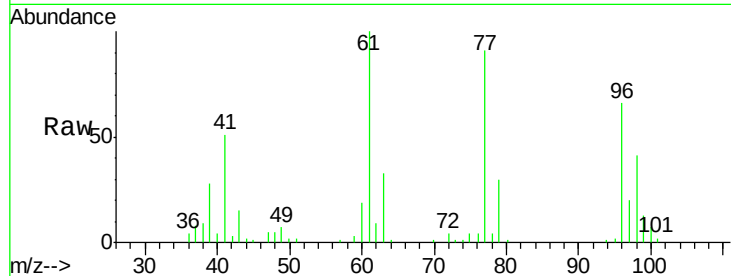
#27
 cis-1,2-Dichloroethene
 Concen: 19.610 ug/l
 RT: 4.23 min Scan# 1132
 Delta R.T. -0.00 min
 Lab File: VU025344.D
 Acq: 12 Jul 2018 17:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0712WBSD02

Tot Ion	Ratio	Lower	Upper
96	100		
61	156.7	0.0	299.8
98	65.8	0.0	128.6

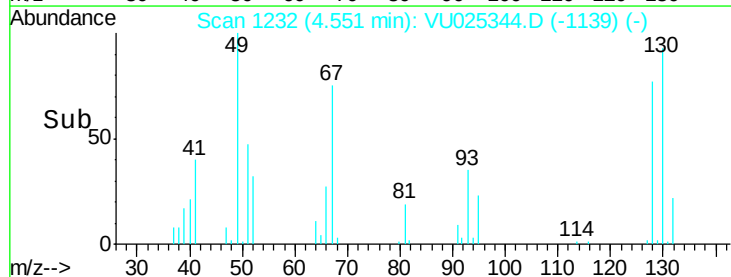
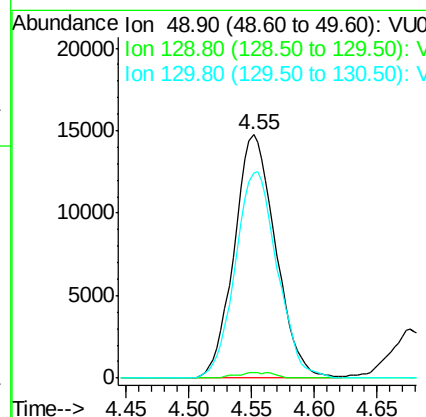
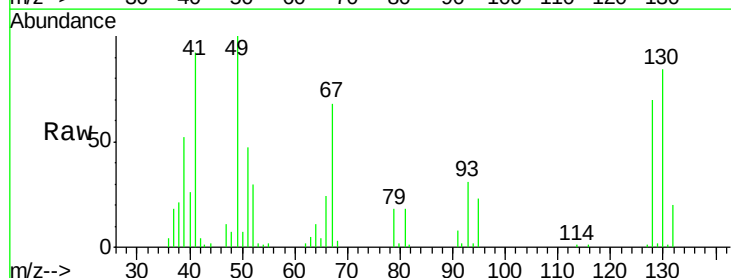
Manual Integrations
 APPROVED

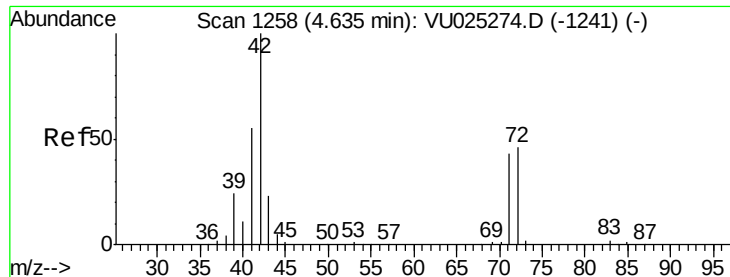
MMDadoda
 7/13/2018 11:44:17 AM



#28
 Bromochloromethane
 Concen: 19.979 ug/l
 RT: 4.55 min Scan# 1232
 Delta R.T. -0.00 min
 Lab File: VU025344.D
 Acq: 12 Jul 2018 17:07

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.3	0.0	4.6
130	86.0	68.6	102.8





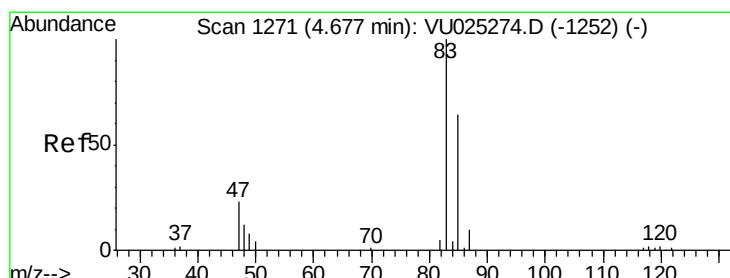
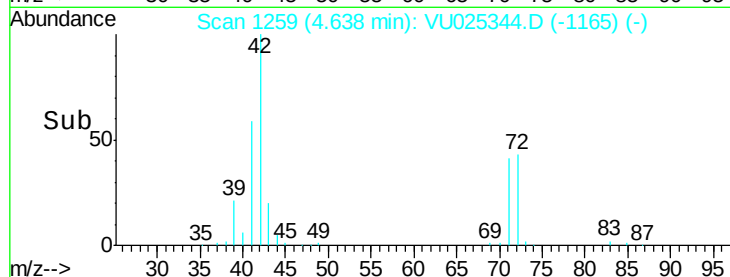
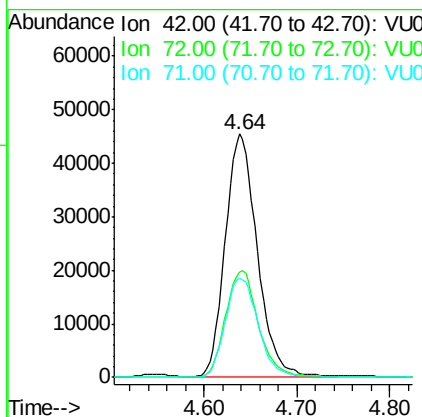
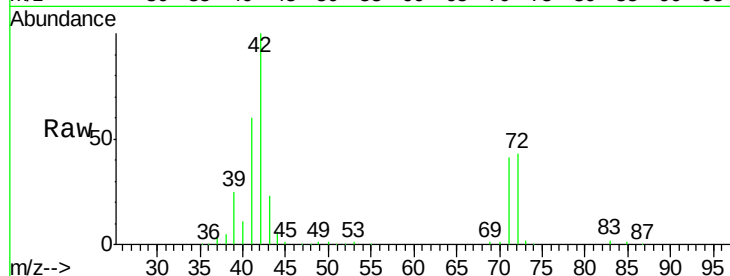
#29
Tetrahydrofuran
Concen: 101.195 ug/l
RT: 4.64 min Scan# 1259
Delta R.T. 0.00 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBSD02

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.1	36.7	55.1
71	42.3	33.9	50.9

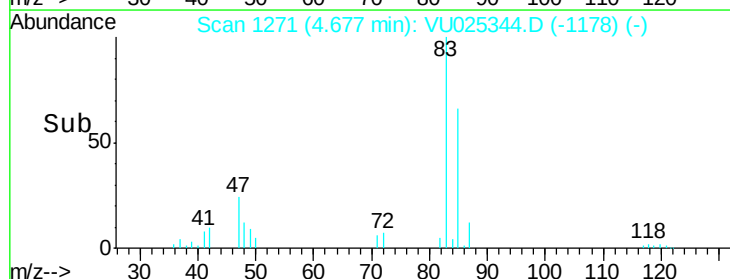
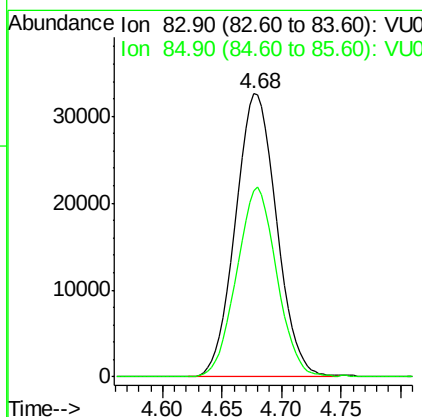
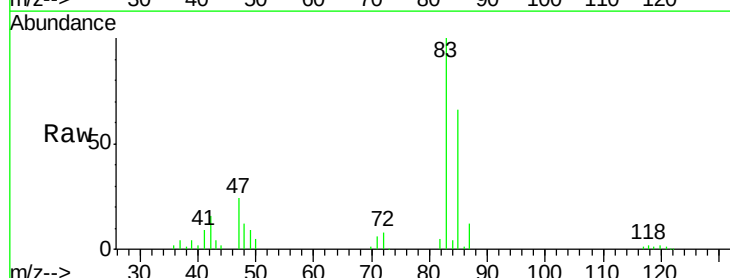
Manual Integrations
APPROVED

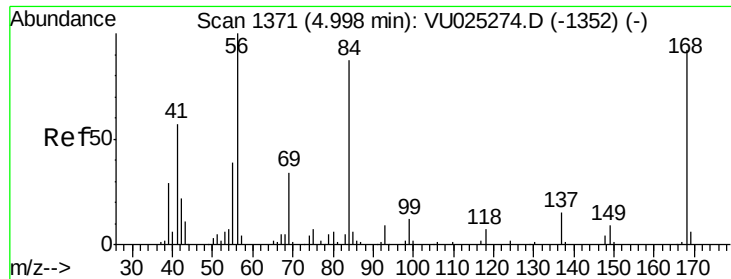
MMDadoda
7/13/2018 11:44:17 AM



#30
Chloroform
Concen: 21.050 ug/l
RT: 4.68 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.9	51.5	77.3





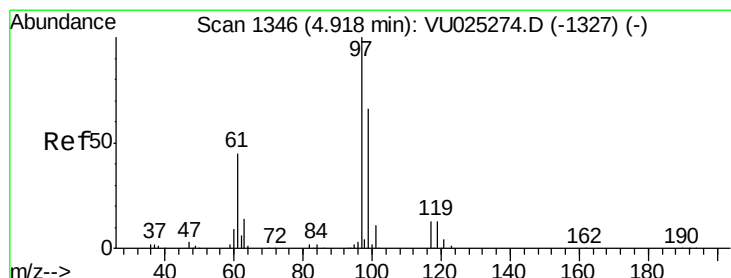
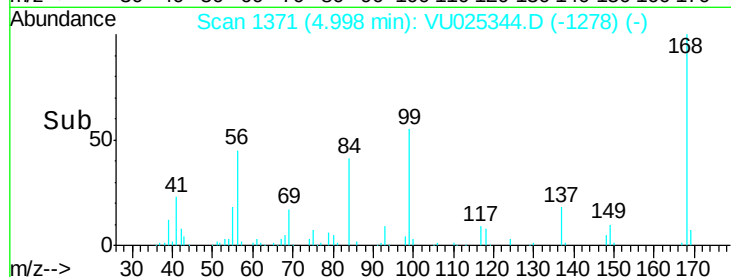
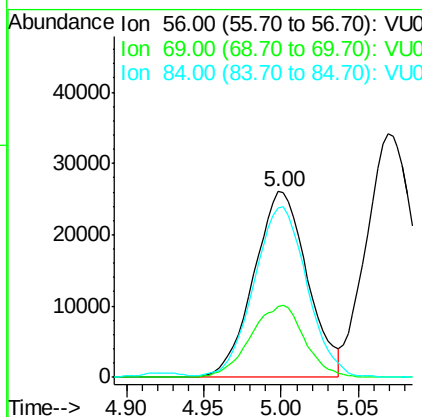
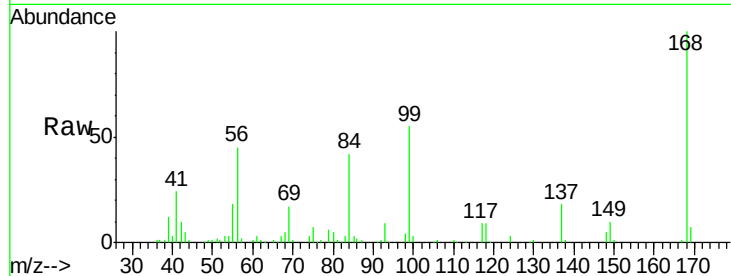
#31
Cyclohexane
Concen: 19.767 ug/l
RT: 5.00 min Scan# 1371
Delta R.T. 0.00 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBSD02

Tot Ion	Ratio	Lower	Upper
56	100		
69	37.9	26.8	40.2
84	90.4	69.7	104.5

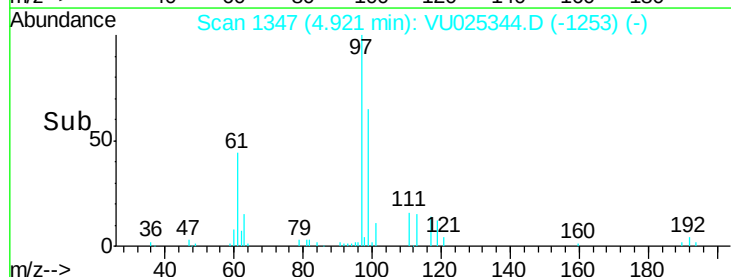
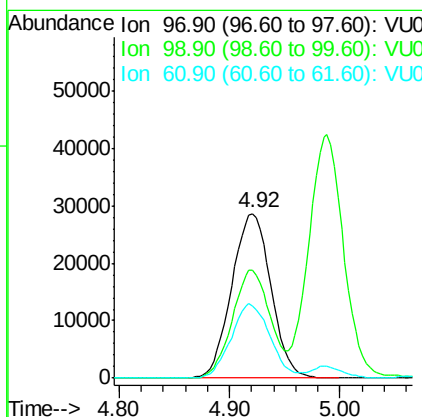
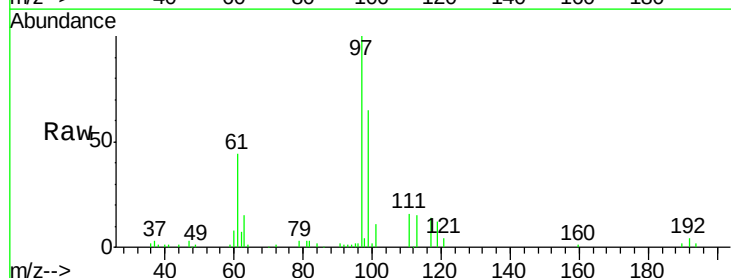
Manual Integrations
APPROVED

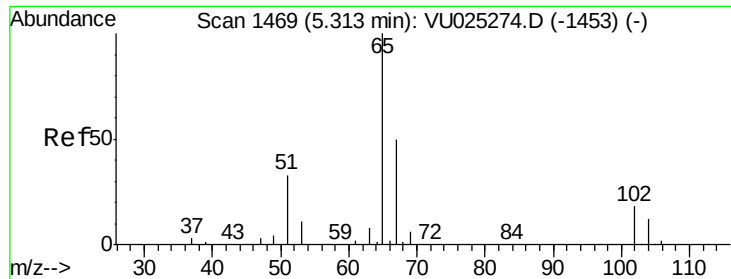
MMDadoda
7/13/2018 11:44:17 AM



#32
1,1,1-Trichloroethane
Concen: 20.960 ug/l
RT: 4.92 min Scan# 1347
Delta R.T. 0.00 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	50.8	76.2
61	44.8	35.2	52.8





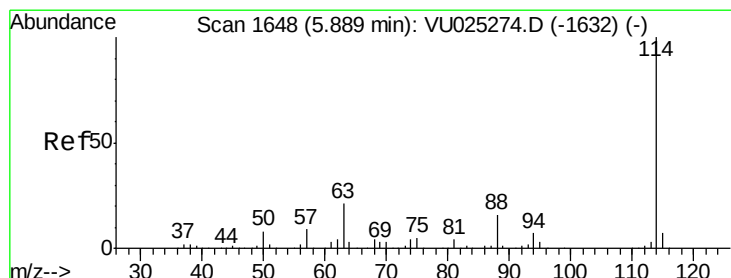
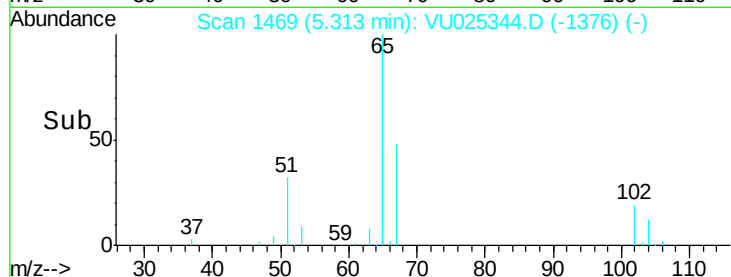
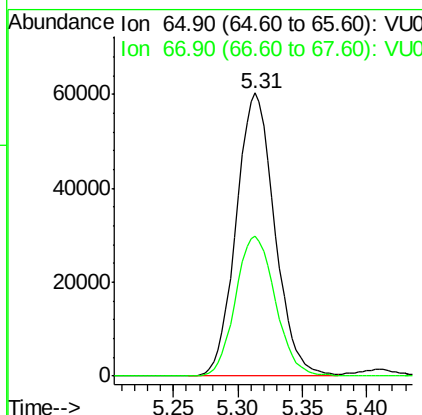
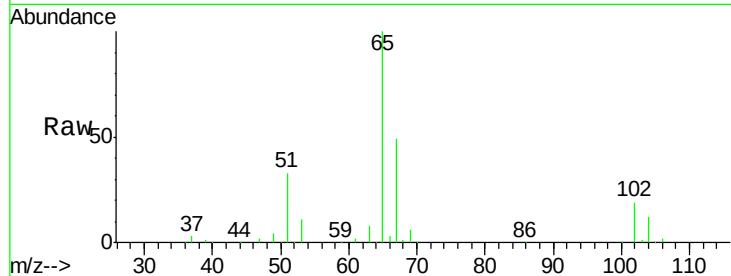
#33
 1,2-Dichloroethane-d4
 Concen: 48.612 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. -0.00 min
 Lab File: VU025344.D
 Acq: 12 Jul 2018 17:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0712WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
65	100	125256		
67	51.0	0.0	103.6	

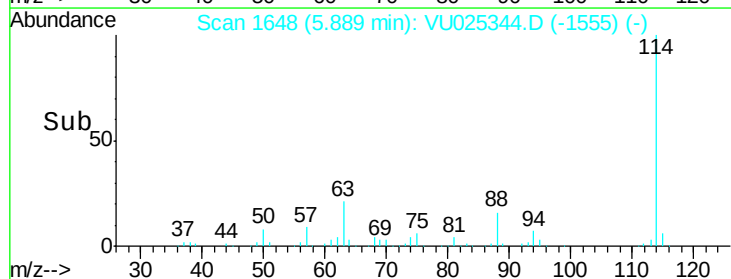
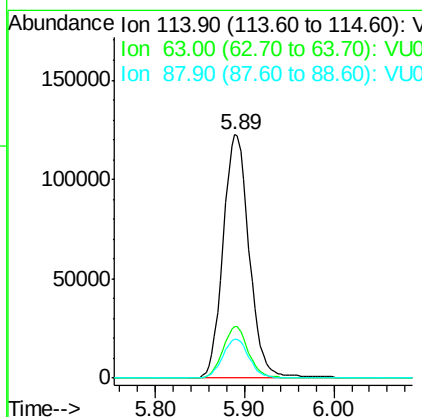
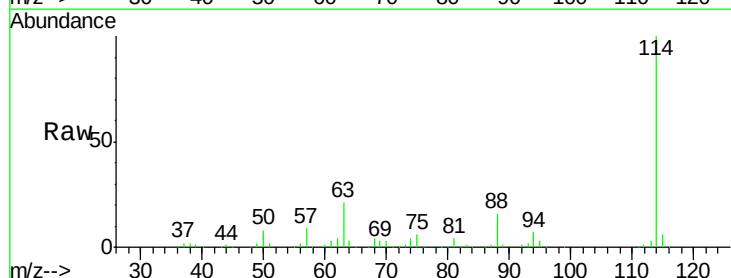
Manual Integrations
 APPROVED

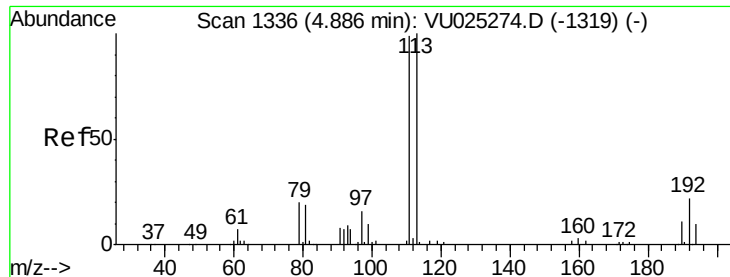
MMDadoda
 7/13/2018 11:44:17 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1648
 Delta R.T. -0.00 min
 Lab File: VU025344.D
 Acq: 12 Jul 2018 17:07

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	249282		
63	21.4	0.0	41.6	
88	16.0	0.0	32.4	





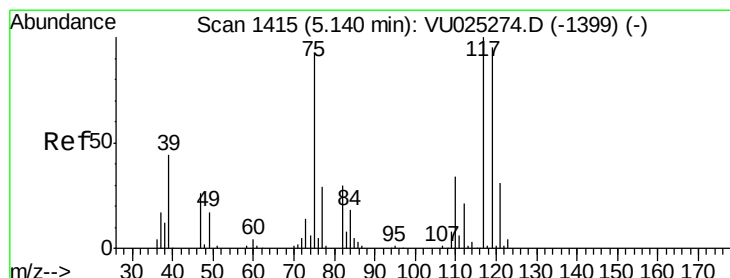
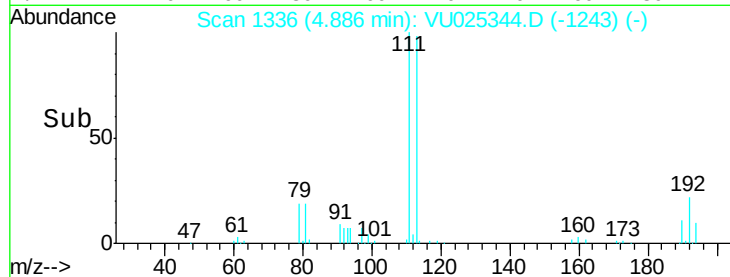
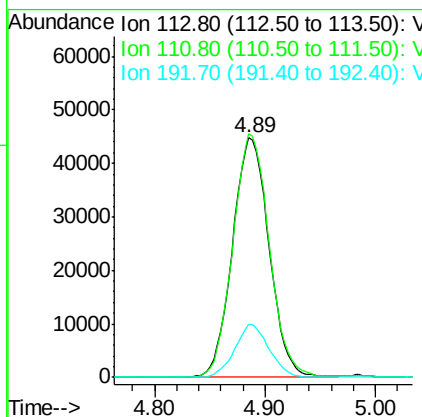
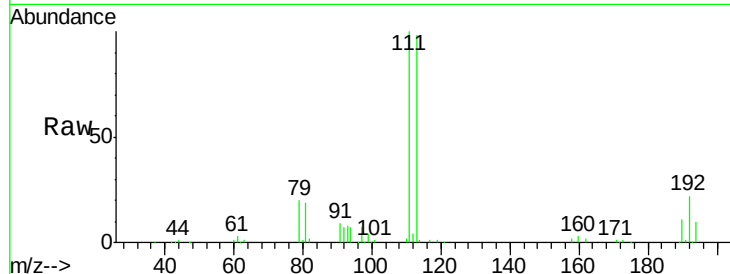
#35
Dibromofluoromethane
Concen: 49.025 ug/l
RT: 4.89 min Scan# 1336
Delta R.T. -0.00 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	101.3	81.7	122.5	
192	20.6	17.1	25.7	

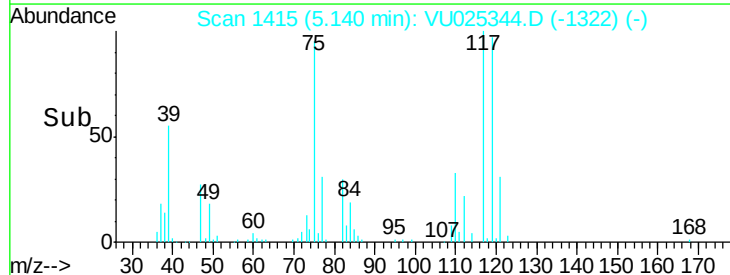
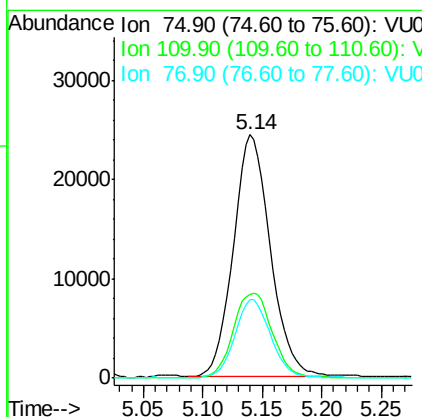
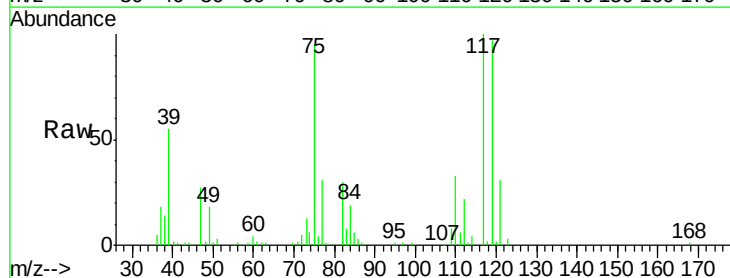
Manual Integrations
APPROVED

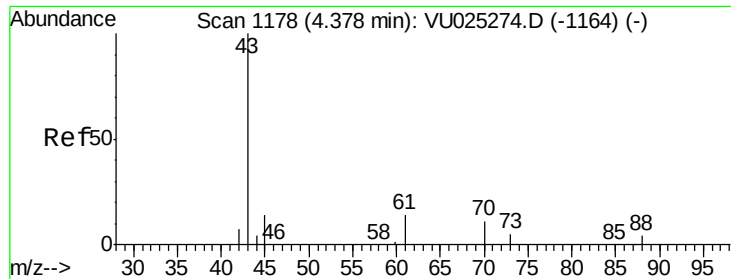
MMDadoda
7/13/2018 11:44:17 AM



#36
1,1-Dichloropropene
Concen: 19.025 ug/l
RT: 5.14 min Scan# 1415
Delta R.T. -0.00 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	37.0	17.6	52.9	
77	31.5	24.4	36.6	





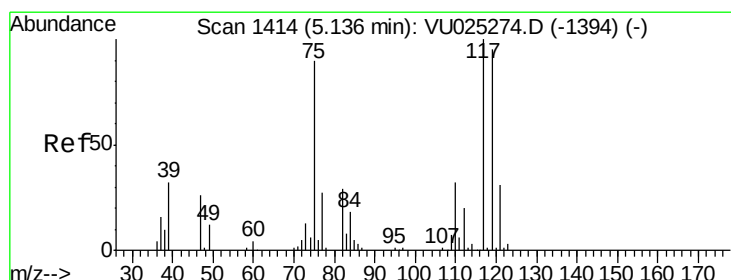
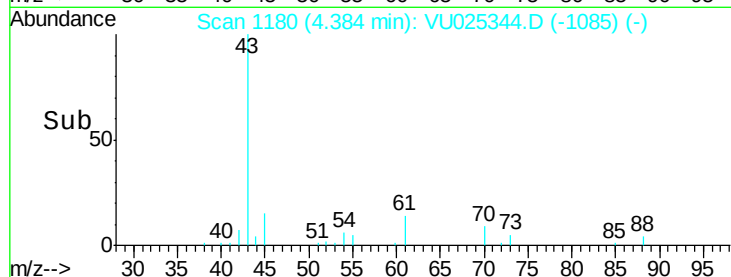
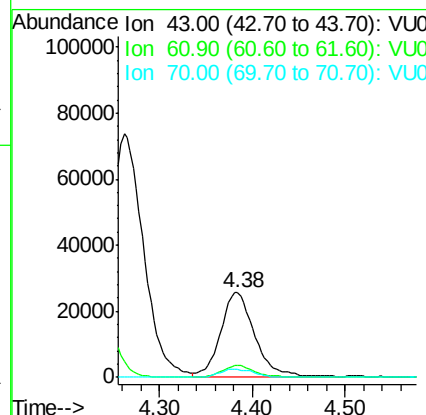
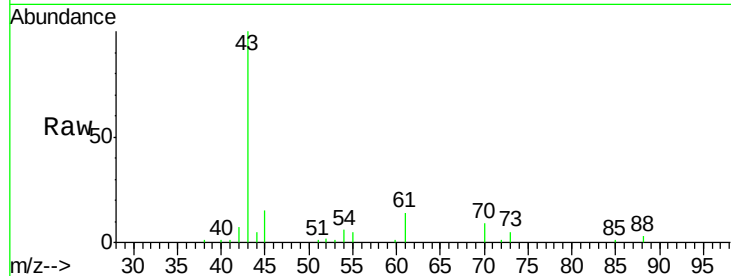
#37
Ethyl Acetate
Concen: 20.663 ug/l
RT: 4.38 min Scan# 1180
Delta R.T. 0.01 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.9	10.7	16.1
70	9.9	8.4	12.6

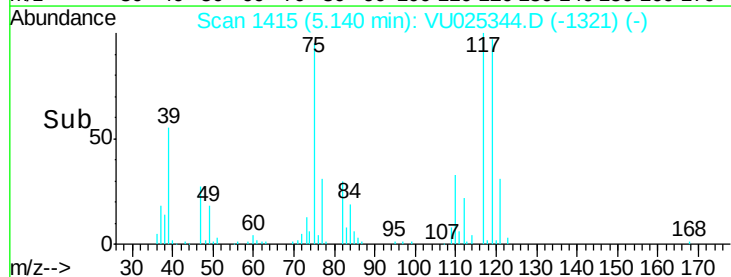
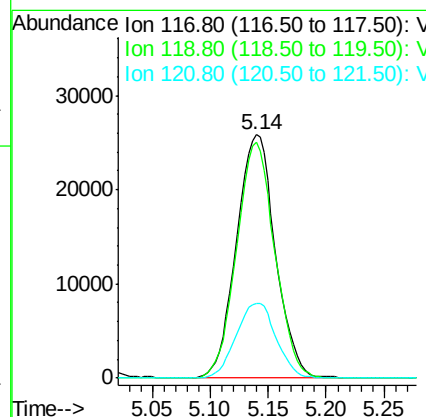
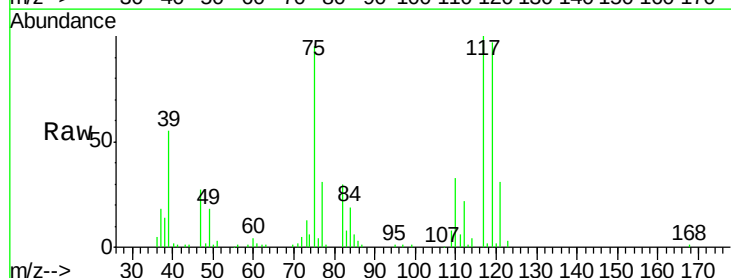
Manual Integrations
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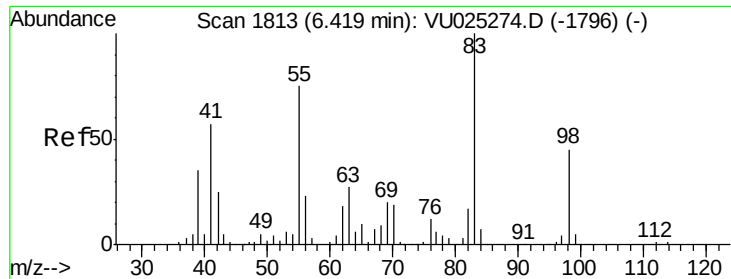
MMDadoda
7/13/2018 11:44:17 AM



#38
Carbon Tetrachloride
Concen: 20.167 ug/l
RT: 5.14 min Scan# 1415
Delta R.T. 0.00 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.8	75.7	113.5
121	30.8	24.6	36.8





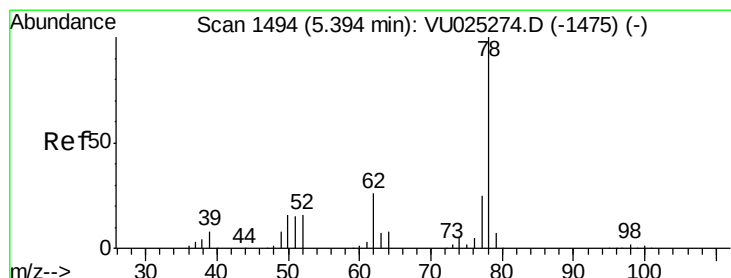
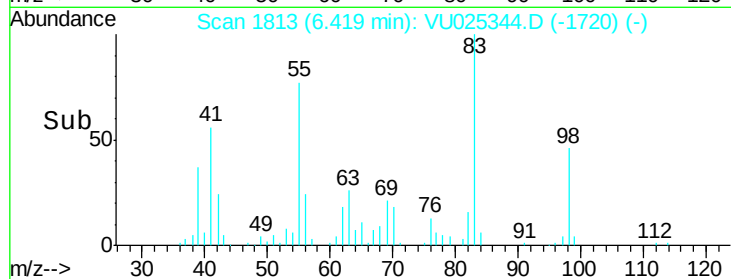
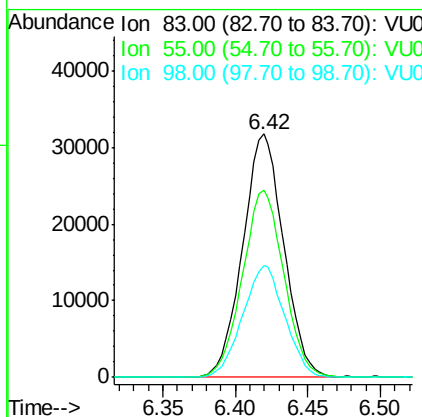
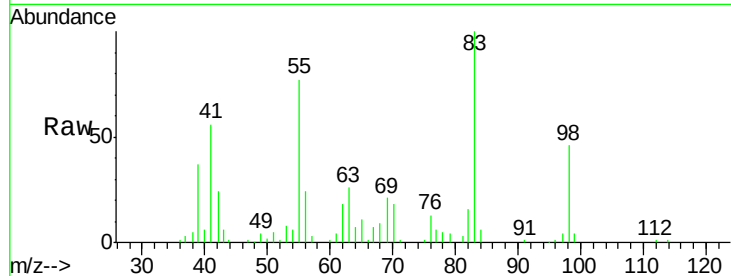
#39
Methylvlcyclohexane
Concen: 18.076 ug/l
RT: 6.42 min Scan# 1813
Delta R.T. -0.00 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBSD02

Tot Ion	83	Resp	62487
Ion Ratio	100	Lower	Upper
83	100		
55	77.0	60.0	90.0
98	46.2	36.1	54.1

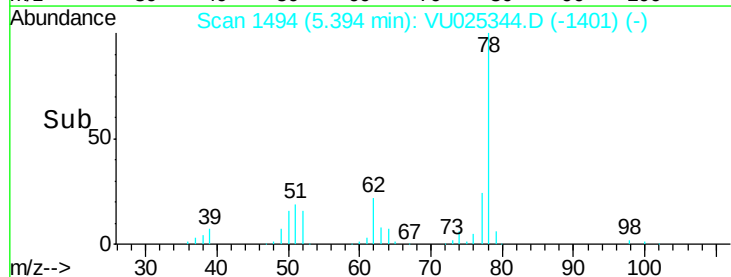
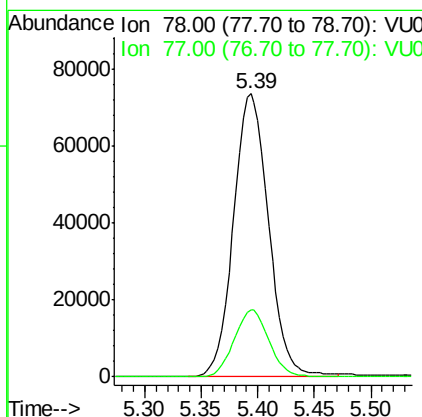
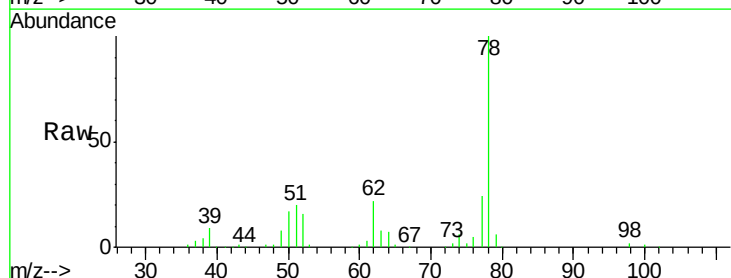
Manual Integrations
APPROVED

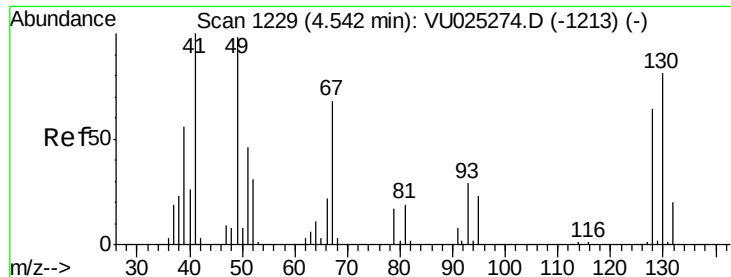
MMDadoda
7/13/2018 11:44:17 AM



#40
Benzene
Concen: 19.896 ug/l
RT: 5.39 min Scan# 1494
Delta R.T. -0.00 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Tgt Ion	78	Resp	158901
Ion Ratio	100	Lower	Upper
78	100		
77	23.9	19.8	29.6





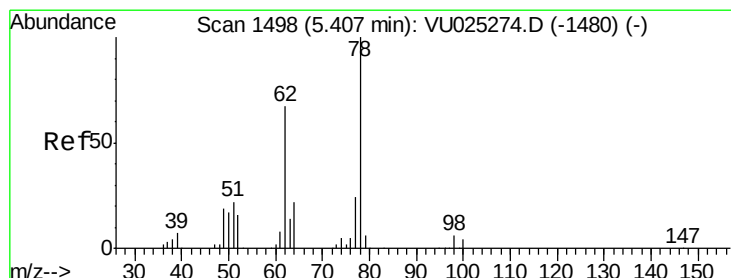
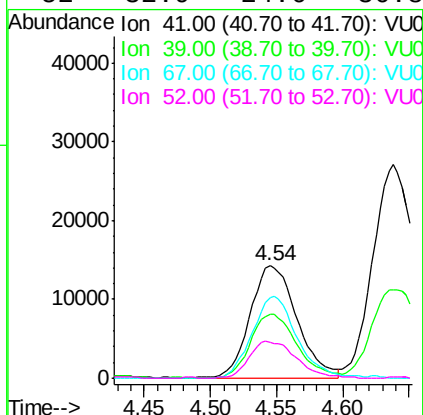
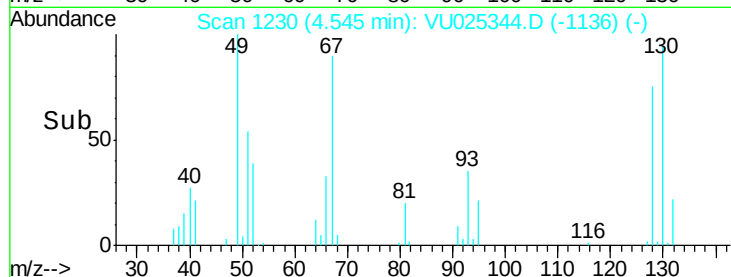
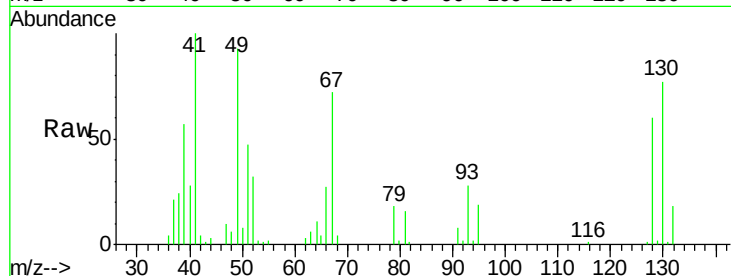
#41
Methacrylonitrile
Concen: 20.683 ug/l
RT: 4.54 min Scan# 1230
Delta R.T. 0.00 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBSD02

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	56.8	44.4	66.6	
67	69.4	56.0	84.0	
52	32.9	24.6	36.8	

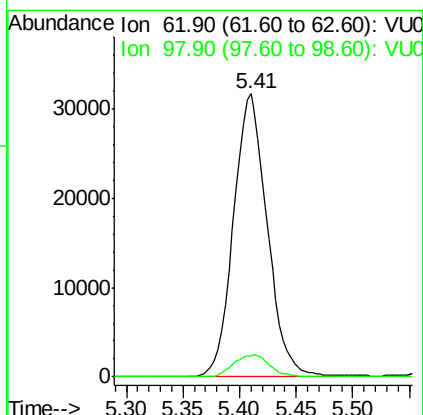
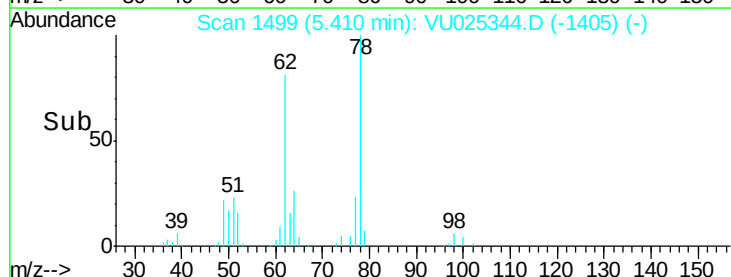
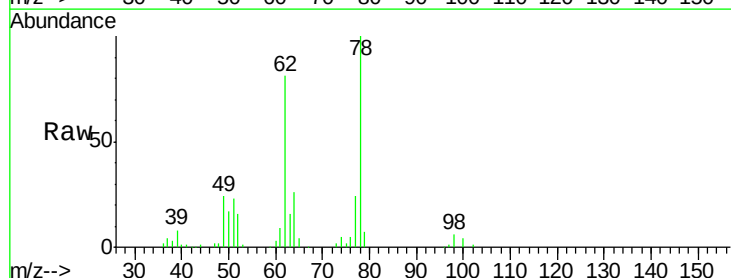
Manual Integrations
APPROVED

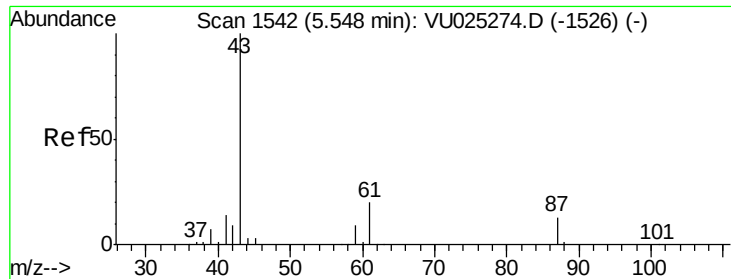
MMDadoda
7/13/2018 11:44:17 AM



#42
1,2-Dichloroethane
Concen: 20.774 ug/l
RT: 5.41 min Scan# 1499
Delta R.T. 0.00 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.3	0.0	16.4	





#43

Isopropyl Acetate

Concen: 20.534 ug/l

RT: 5.55 min Scan# 1543

Delta R.T. 0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

Instrument :

MSVOA_U

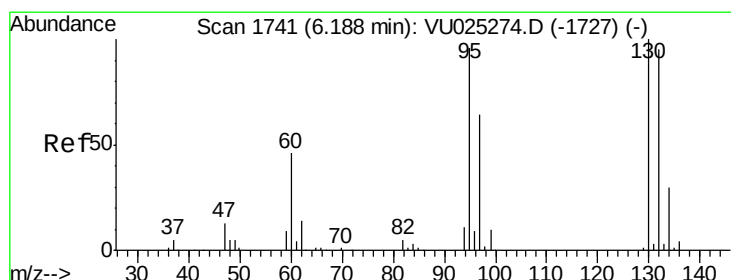
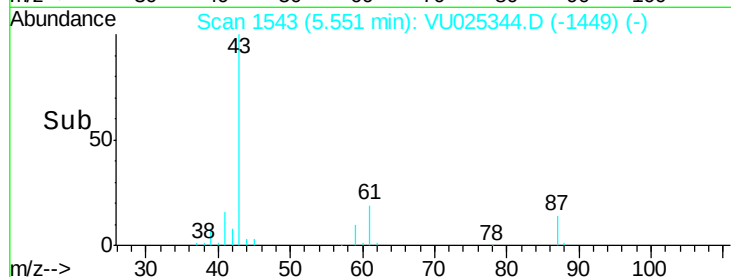
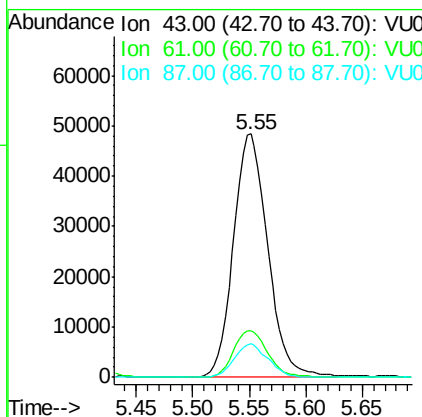
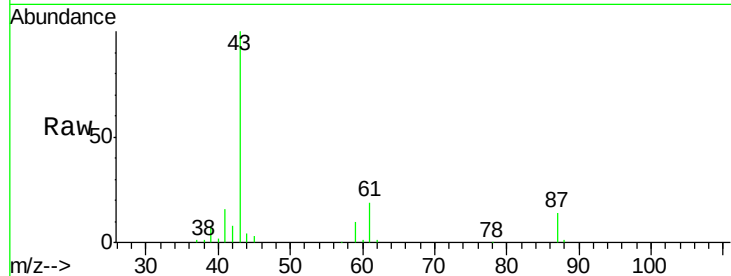
ClientSampleId :

VU0712WBSD02

Tot Ion:	43	Resp:	101631
Ion	Ratio	Lower	Upper
43	100		
61	19.4	15.5	23.3
87	13.6	10.6	16.0

Manual Integrations
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MMDadoda
7/13/2018 11:44:17 AM



#44

Trichloroethene

Concen: 18.853 ug/l

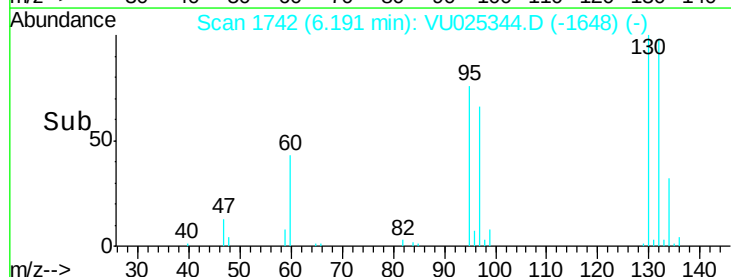
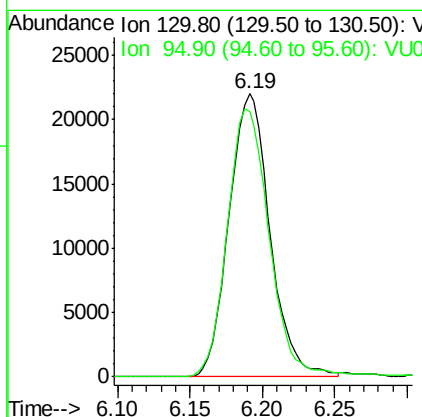
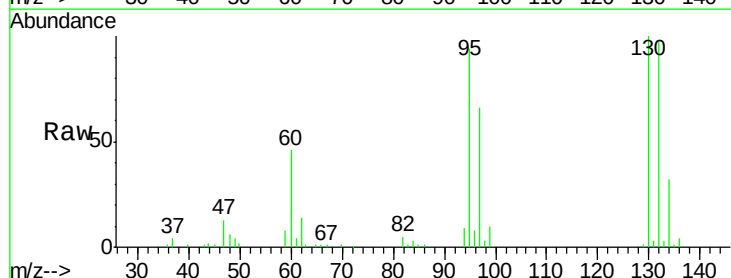
RT: 6.19 min Scan# 1742

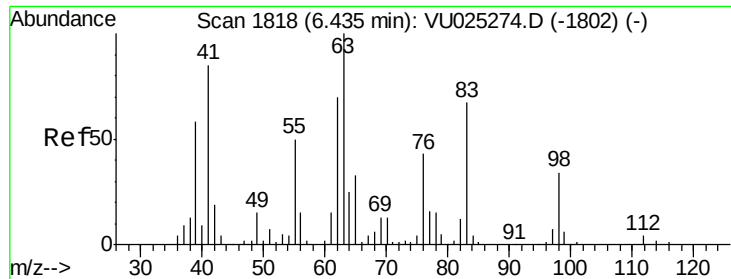
Delta R.T. 0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

Tgt Ion:	130	Resp:	43235
Ion	Ratio	Lower	Upper
130	100		
95	93.9	0.0	192.2





#45

1,2-Dichloropropane

Concen: 20.757 ug/l

RT: 6.44 min Scan# 1819

Delta R.T. 0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

Instrument :

MSVOA_U

ClientSampleId :

VU0712WBSD02

Tot Ion: 63 Resp: 43420

Ion Ratio Lower Upper

63 100

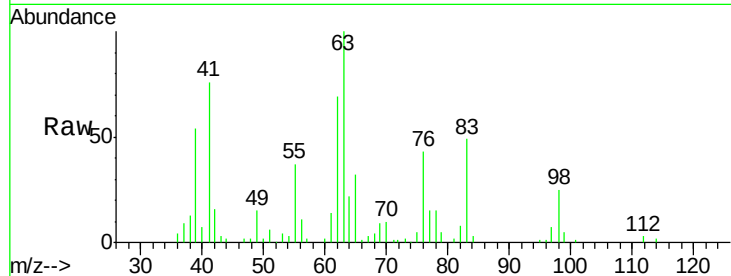
65 31.8 26.1 39.1

Manual Integrations

APPROVED

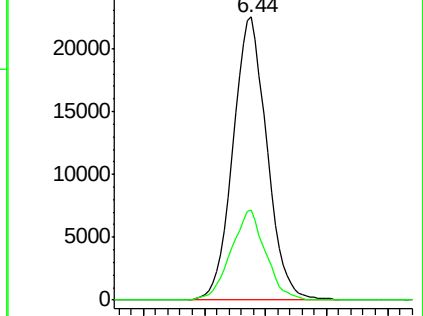
MMDadoda

7/13/2018 11:44:17 AM

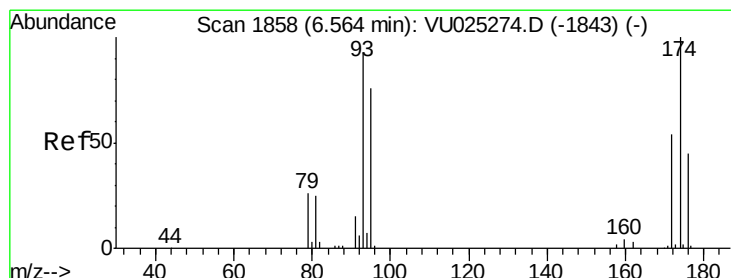
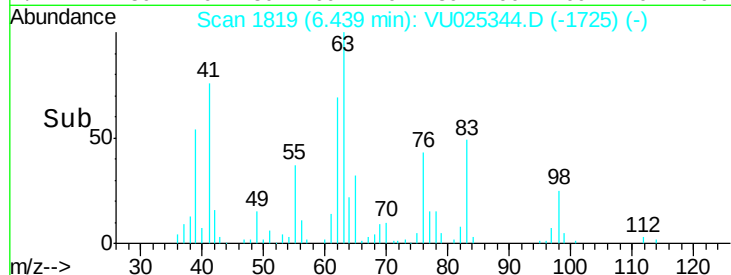


Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 64.90 (64.60 to 65.60): VU0



Time-->



#46

Dibromomethane

Concen: 20.223 ug/l

RT: 6.56 min Scan# 1858

Delta R.T. -0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

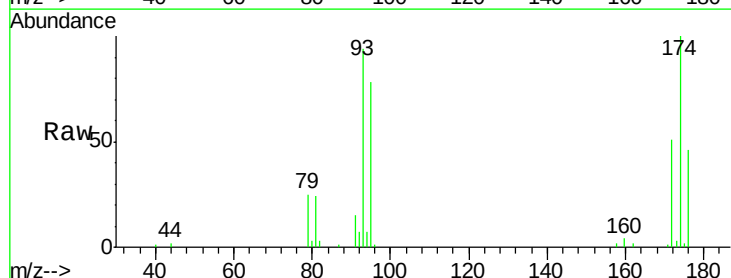
Tgt Ion: 93 Resp: 30785

Ion Ratio Lower Upper

93 100

95 81.8 66.6 100.0

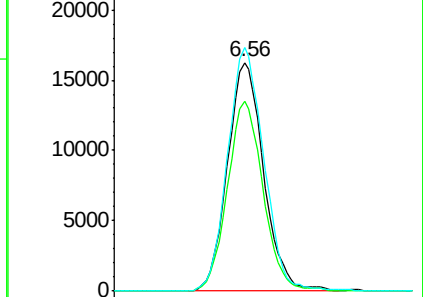
174 106.2 85.8 128.8



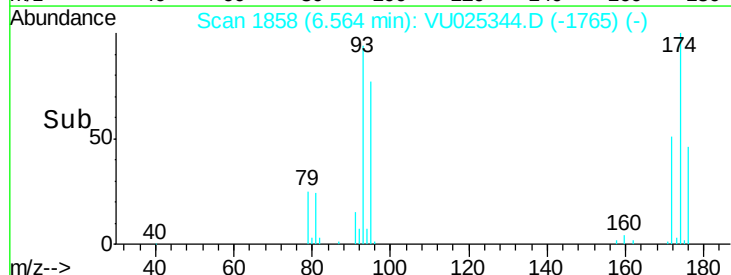
Abundance Ion 92.80 (92.50 to 93.50): VU0

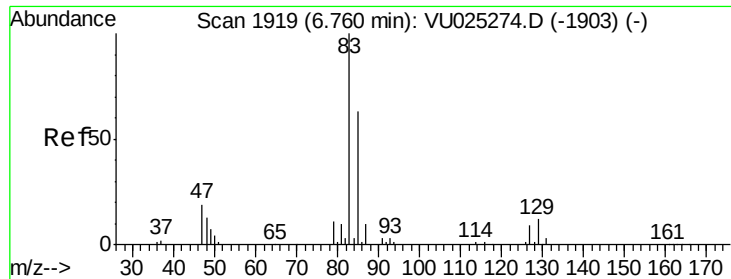
Ion 94.80 (94.50 to 95.50): VU0

Ion 173.70 (173.40 to 174.40): V



Time-->





#47

Bromodichloromethane

Concen: 20.309 ug/l

RT: 6.76 min Scan# 1919

Delta R.T. -0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

Instrument :

MSVOA_U

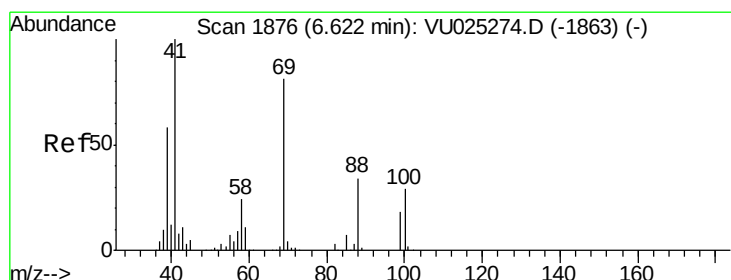
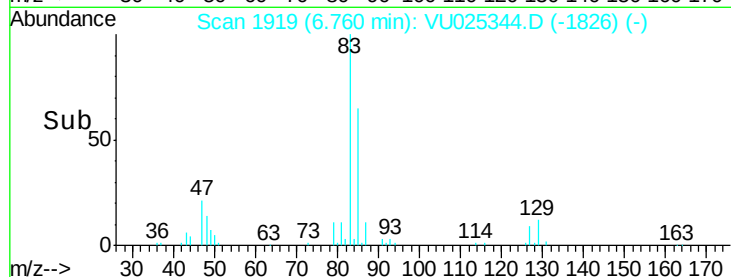
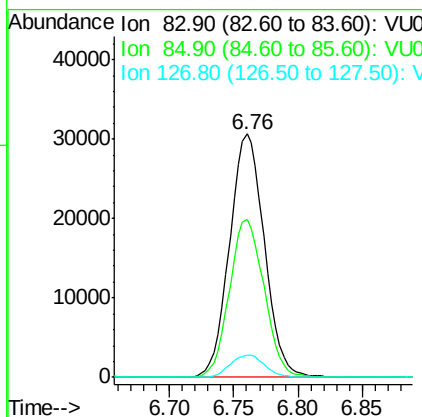
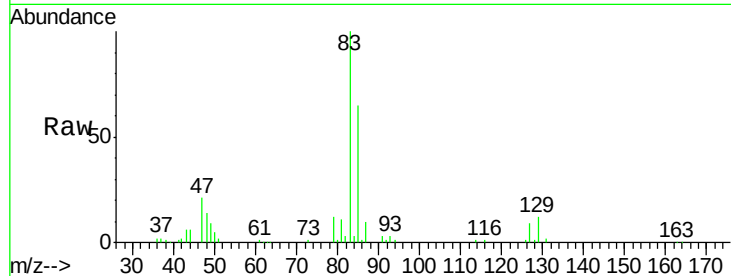
ClientSampleId :

VU0712WBSD02

Tot Ion:	83	Resp:	57431
Ion	Ratio	Lower	Upper
83	100		
85	64.6	50.2	75.4
127	9.2	7.2	10.8

Manual Integrations
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MMDadoda
7/13/2018 11:44:17 AM



#48

Methyl methacrylate

Concen: 20.992 ug/l

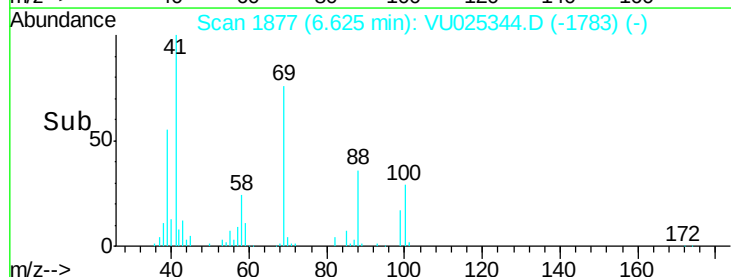
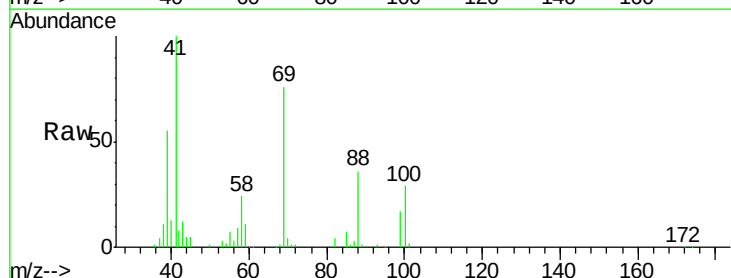
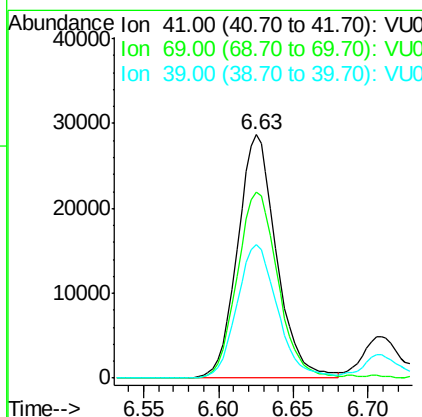
RT: 6.63 min Scan# 1877

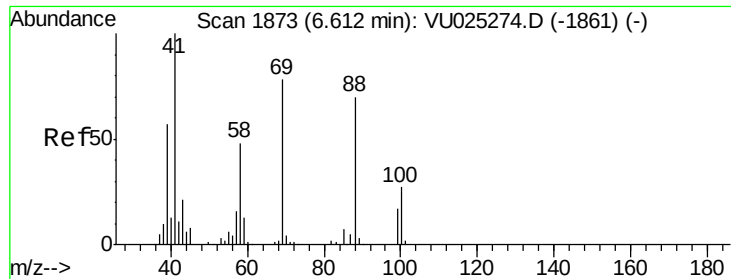
Delta R.T. 0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

Tgt Ion:	41	Resp:	51796
Ion	Ratio	Lower	Upper
41	100		
69	79.8	65.0	97.4
39	57.2	46.4	69.6





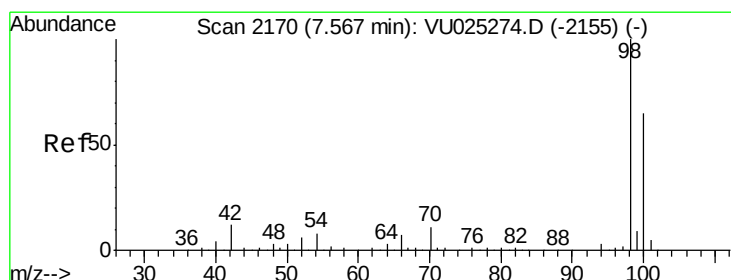
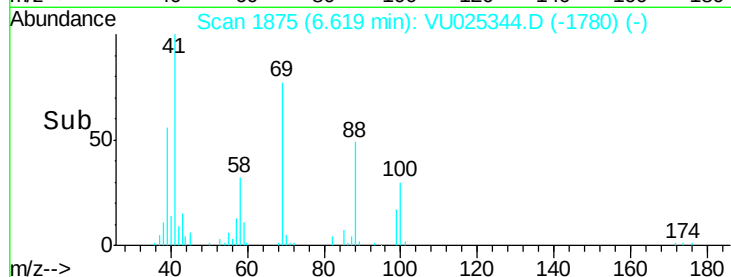
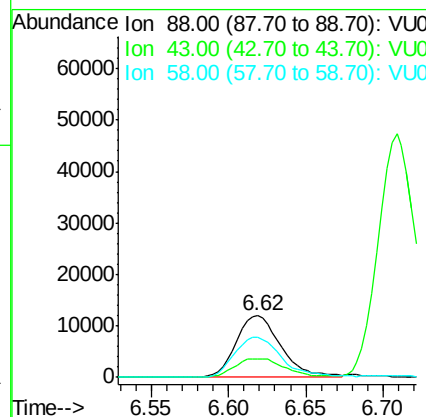
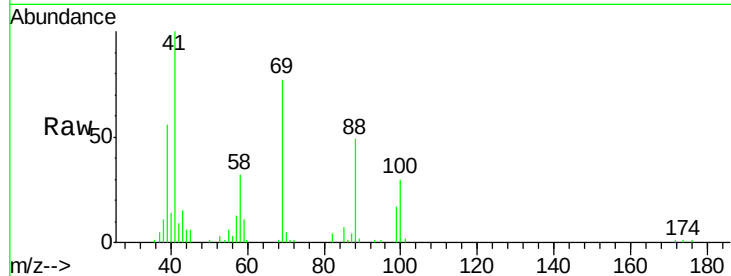
#49
1,4-Dioxane
Concen: 405.820 ug/l
RT: 6.62 min Scan# 1875
Delta R.T. 0.01 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBSD02

Tot Ion	Ratio	Lower	Upper
88	100		
43	33.5	27.3	40.9
58	69.3	57.6	86.4

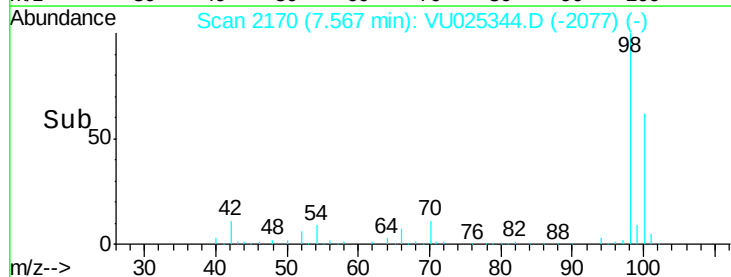
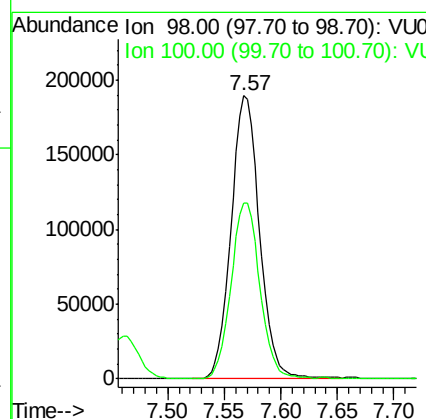
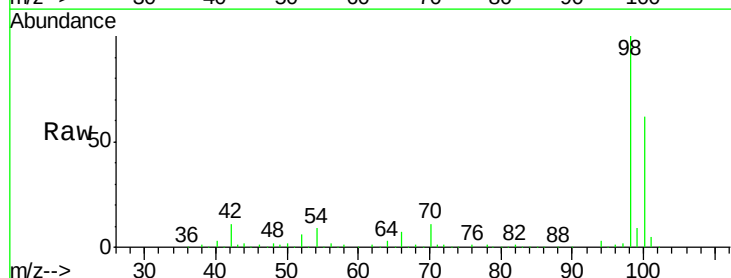
Manual Integrations
APPROVED

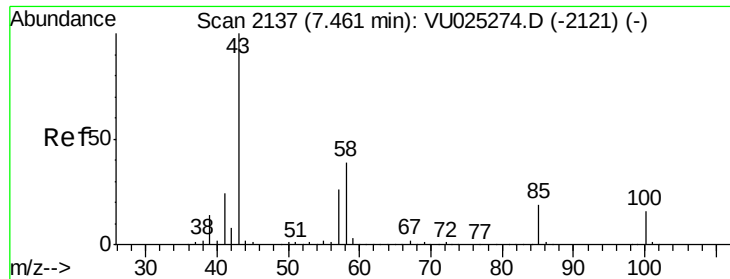
MMDadoda
7/13/2018 11:44:17 AM



#50
Toluene-d8
Concen: 46.241 ug/l
RT: 7.57 min Scan# 2170
Delta R.T. -0.00 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Tgt Ion	Ratio	Lower	Upper
98	100		
100	62.5	51.1	76.7





#51

4-Methyl-2-Pentanone

Concen: 102.473 ug/l

RT: 7.46 min Scan# 2137

Delta R.T. -0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

Instrument :

MSVOA_U

ClientSampleId :

VU0712WBSD02

Tot Ion: 43 Resp: 329645

Ion Ratio Lower Upper

43 100

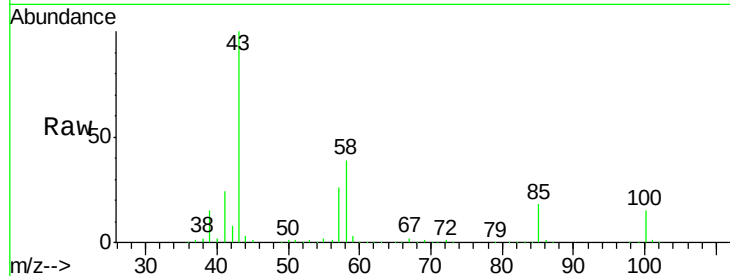
58 38.5 31.0 46.4

Manual Integrations

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MMDadoda

7/13/2018 11:44:17 AM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

7.46

200000

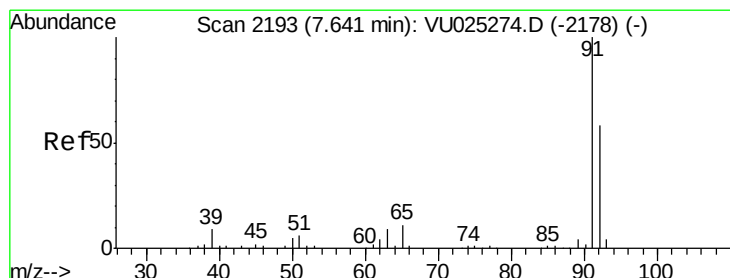
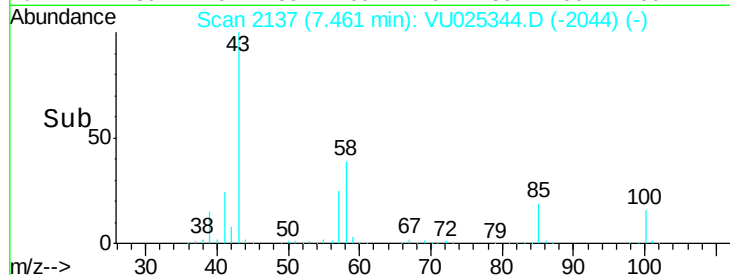
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 19.891 ug/l

RT: 7.64 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VU025344.D

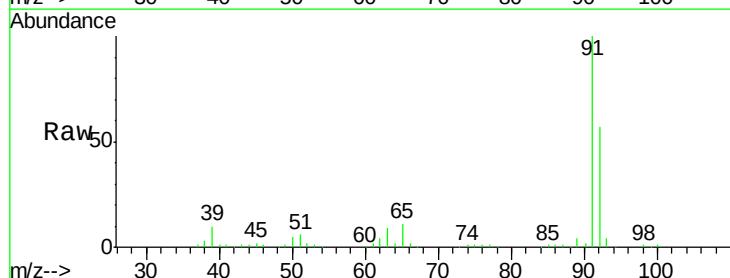
Acq: 12 Jul 2018 17:07

Tgt Ion: 92 Resp: 101070

Ion Ratio Lower Upper

92 100

91 174.4 139.2 208.8



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0

7.64

120000

100000

80000

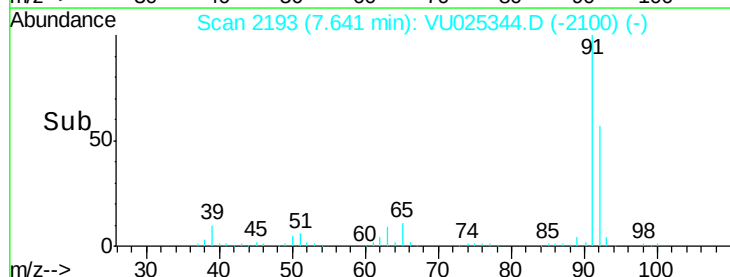
60000

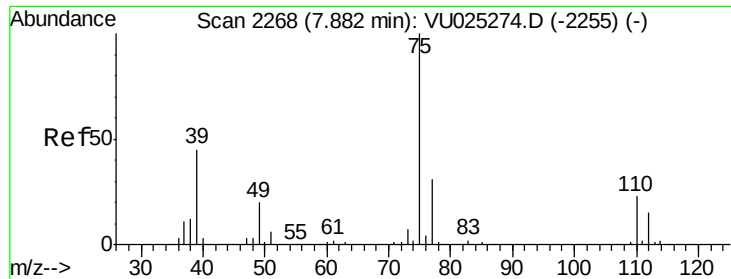
40000

20000

0

Time-->





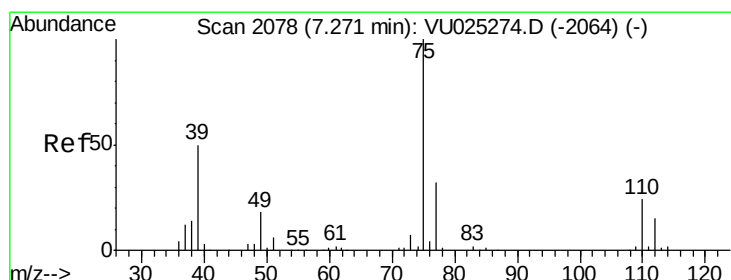
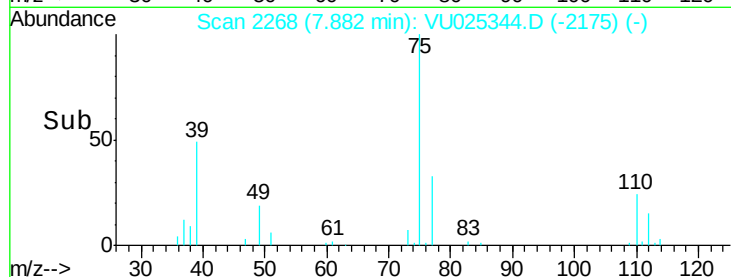
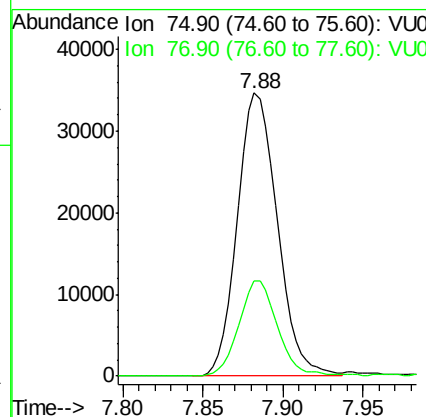
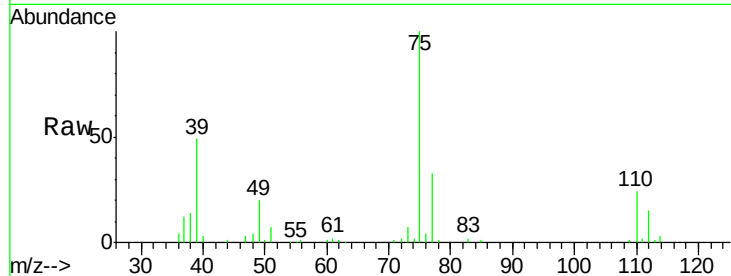
#53
t-1,3-Dichloropropene
Concen: 19.033 ug/l
RT: 7.88 min Scan# 2268
Delta R.T. -0.00 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBSD02

Tot Ion: 75 Resp: 59138
Ion Ratio Lower Upper
75 100
77 33.4 24.5 36.7

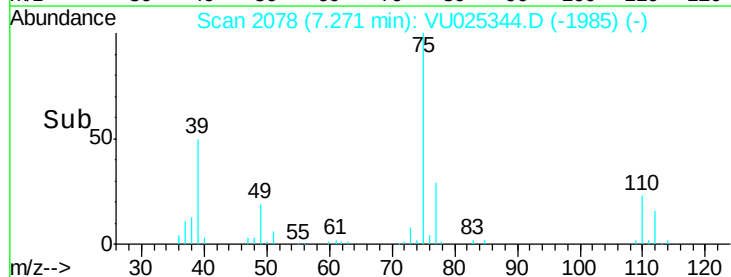
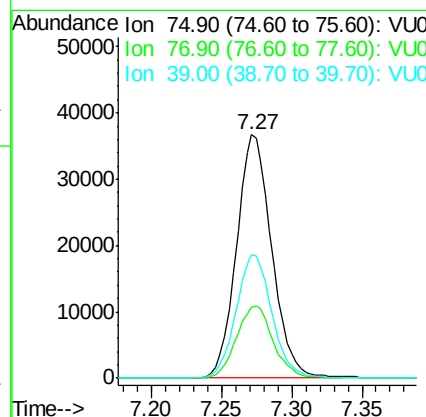
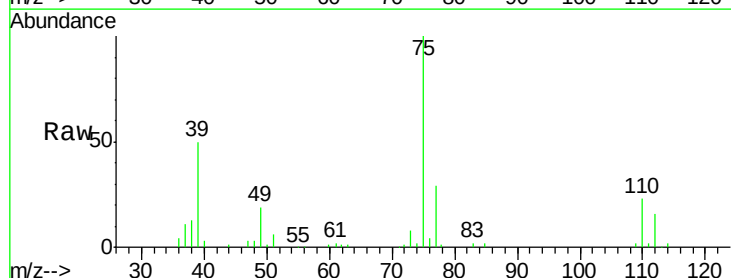
Manual Integrations
APPROVED

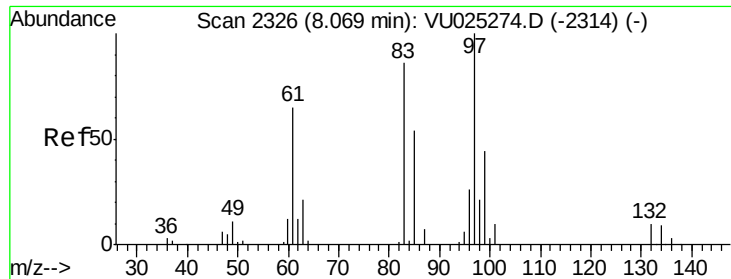
MMDadoda
7/13/2018 11:44:17 AM



#54
cis-1,3-Dichloropropene
Concen: 19.417 ug/l
RT: 7.27 min Scan# 2078
Delta R.T. -0.00 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Tgt Ion: 75 Resp: 64209
Ion Ratio Lower Upper
75 100
77 29.1 25.6 38.4
39 50.4 40.0 60.0





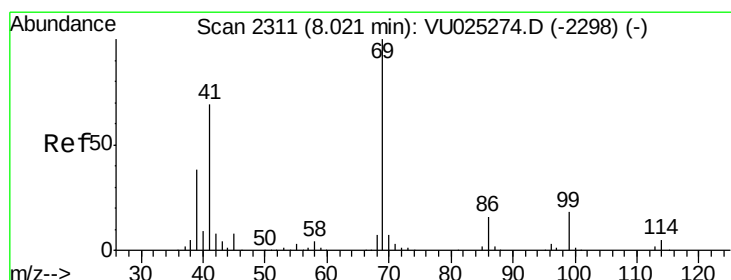
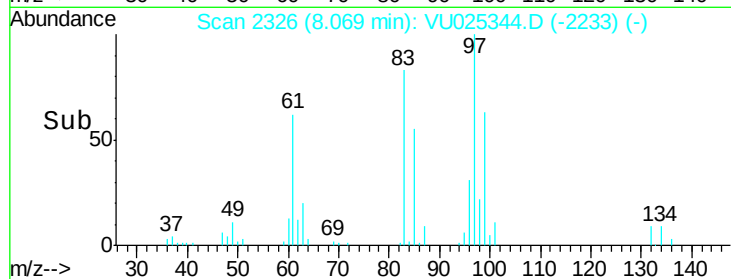
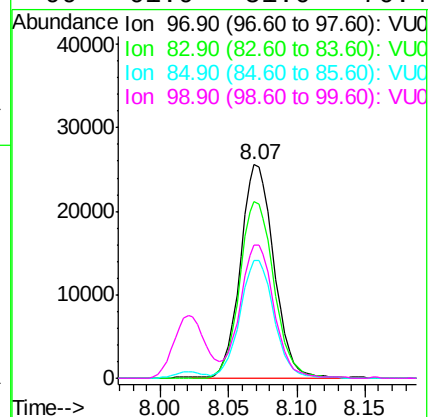
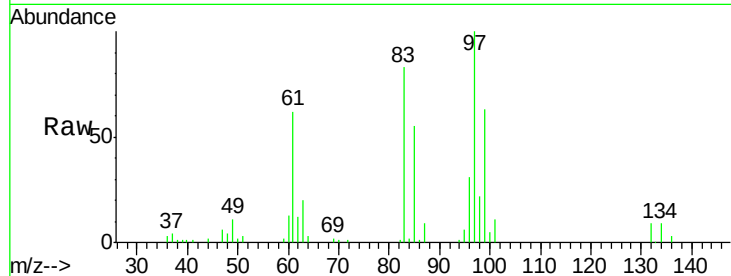
#55
 1,1,2-Trichloroethane
 Concen: 20.729 ug/l
 RT: 8.07 min Scan# 2326
 Delta R.T. -0.00 min
 Lab File: VU025344.D
 Acq: 12 Jul 2018 17:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0712WBSD02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		43866		
83	82.8	68.9	103.3		
85	54.9	44.4	66.6		
99	61.9	51.0	76.4		

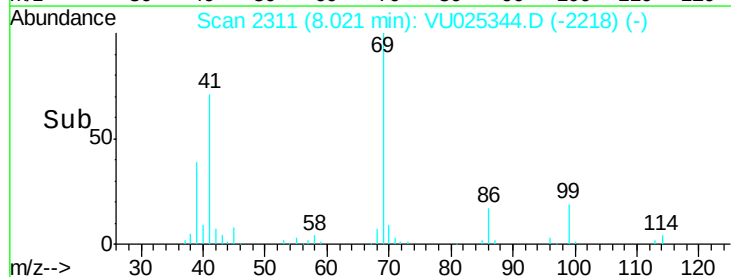
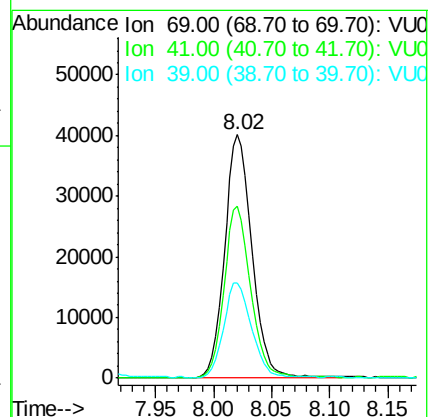
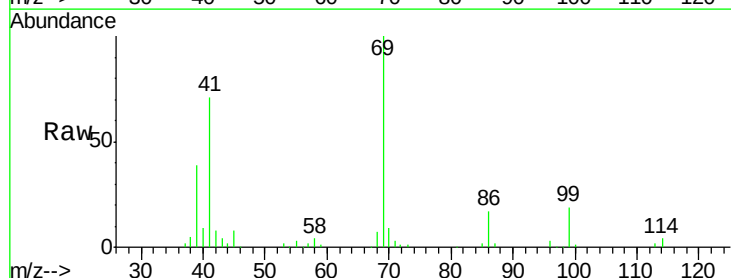
Manual Integrations
 APPROVED

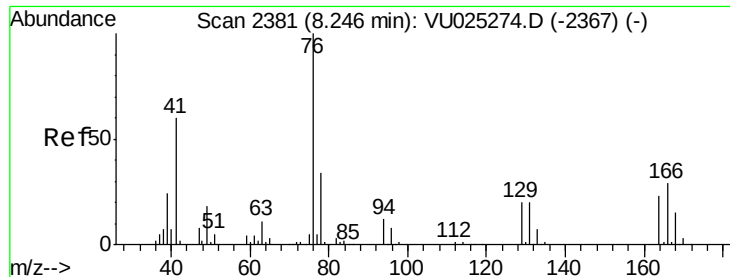
MMDadoda
 7/13/2018 11:44:17 AM



#56
 Ethyl methacrylate
 Concen: 20.001 ug/l
 RT: 8.02 min Scan# 2311
 Delta R.T. -0.00 min
 Lab File: VU025344.D
 Acq: 12 Jul 2018 17:07

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		66107		
41	68.8	54.8	82.2		
39	39.3	31.1	46.7		





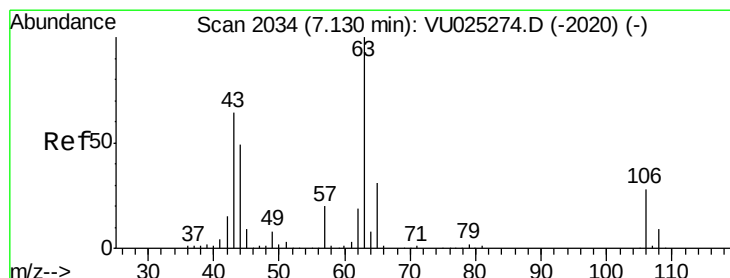
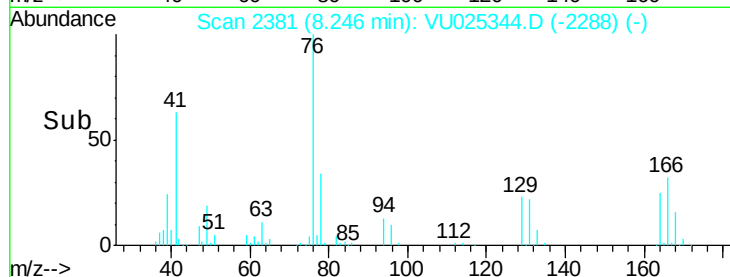
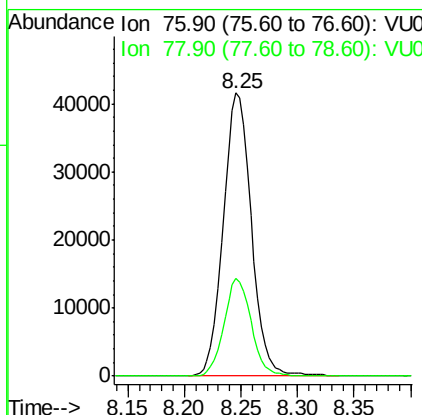
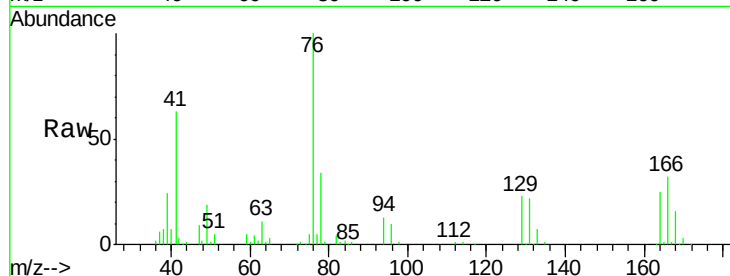
#57
 1,3-Dichloropropane
 Concen: 20.485 ug/l
 RT: 8.25 min Scan# 2381
 Delta R.T. -0.00 min
 Lab File: VU025344.D
 Acq: 12 Jul 2018 17:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0712WBSD02

Tot Ion: 76 Resp: 71963
 Ion Ratio Lower Upper
 76 100
 78 33.3 26.1 39.1

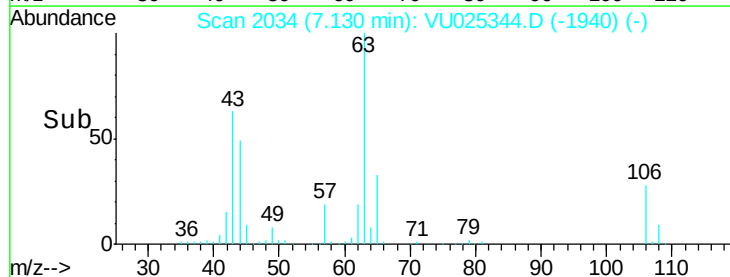
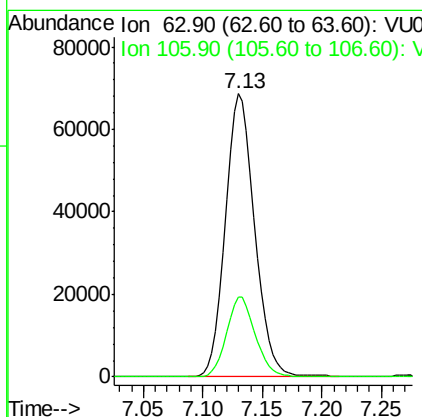
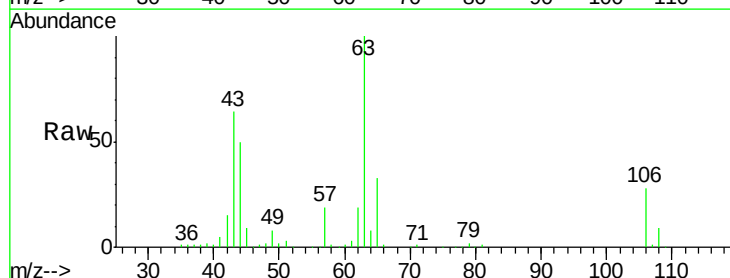
Manual Integrations
 APPROVED

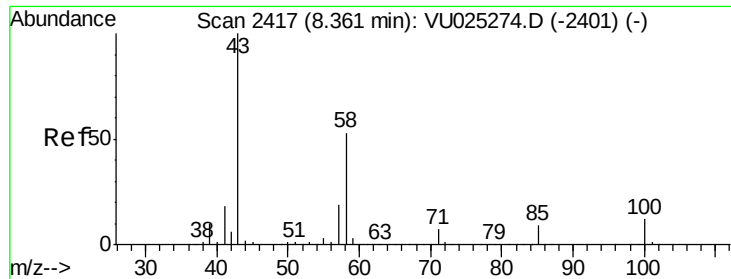
MMDadoda
 7/13/2018 11:44:17 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 79.778 ug/l
 RT: 7.13 min Scan# 2034
 Delta R.T. 0.00 min
 Lab File: VU025344.D
 Acq: 12 Jul 2018 17:07

Tgt Ion: 63 Resp: 116997
 Ion Ratio Lower Upper
 63 100
 106 27.8 22.3 33.5





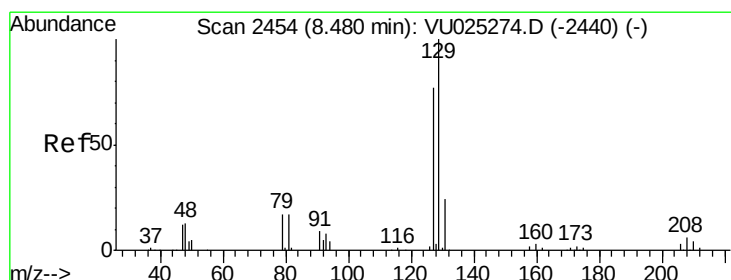
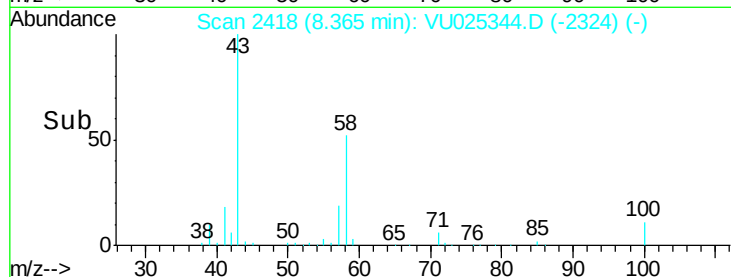
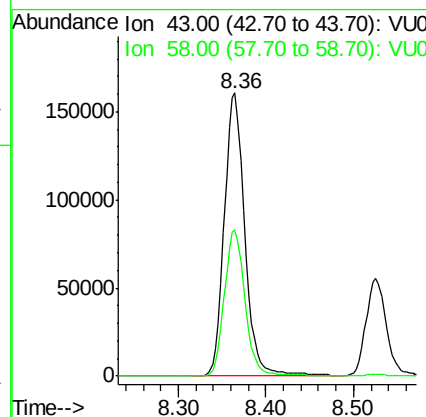
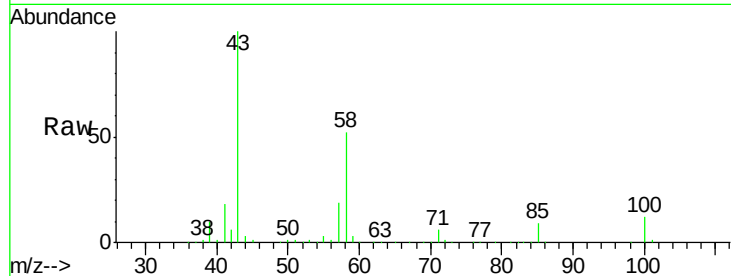
#59
2-Hexanone
Concen: 100.861 ug/l
RT: 8.36 min Scan# 2418
Delta R.T. 0.00 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
58	51.4	26.2	78.5

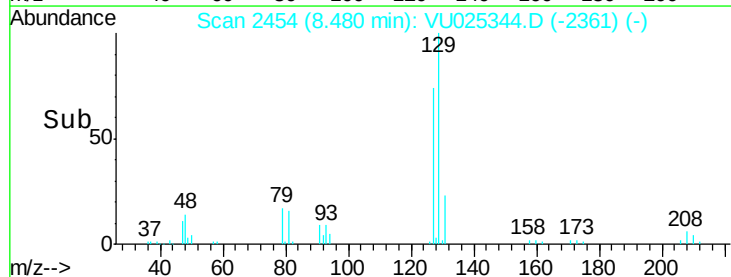
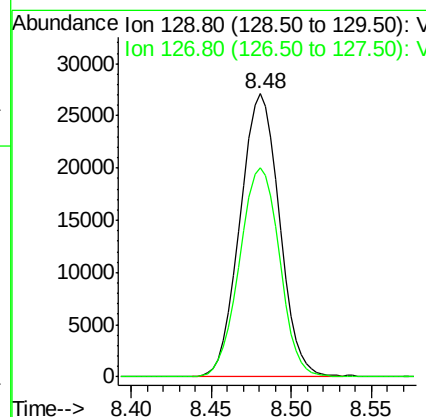
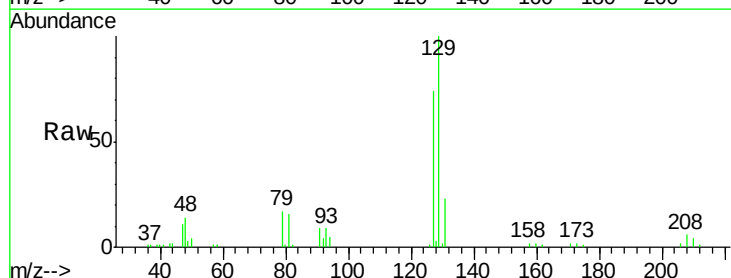
Manual Integrations
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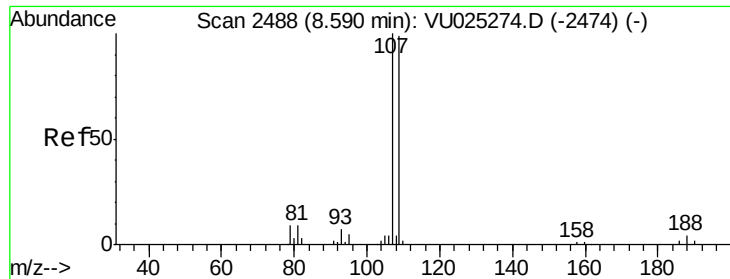
MMDadoda
7/13/2018 11:44:17 AM



#60
Dibromochloromethane
Concen: 19.956 ug/l
RT: 8.48 min Scan# 2454
Delta R.T. -0.00 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Tgt Ion	Ratio	Lower	Upper
129	100		
127	75.1	38.6	115.8





#61

1,2-Dibromoethane

Concen: 20.253 ug/l

RT: 8.59 min Scan# 2488

Delta R.T. -0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

Instrument :

MSVOA_U

ClientSampleId :

VU0712WBSD02

Tot Ion:107 Resp: 45859

Ion Ratio Lower Upper

107 100

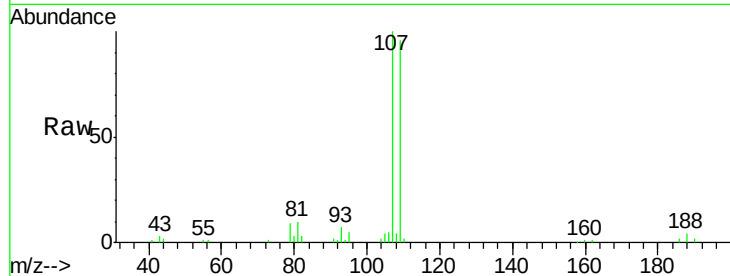
109 94.1 75.8 113.8

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

8.59

25000

20000

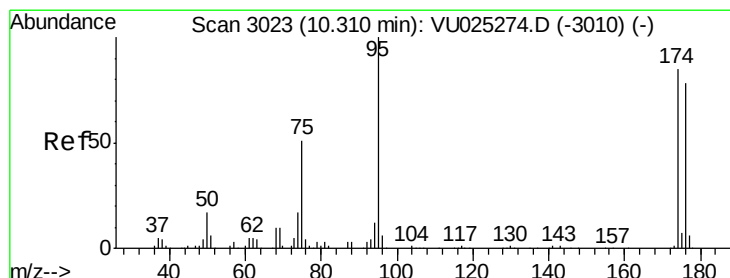
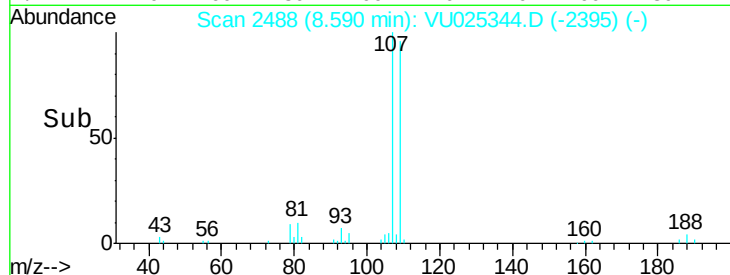
15000

10000

5000

0

Time--> 8.50 8.55 8.60 8.65



#62

4-Bromofluorobenzene

Concen: 46.612 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

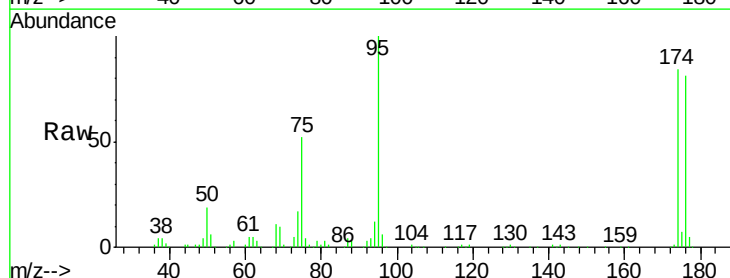
Tgt Ion: 95 Resp: 135138

Ion Ratio Lower Upper

95 100

174 85.3 0.0 172.2

176 82.1 0.0 162.6



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

120000

100000

80000

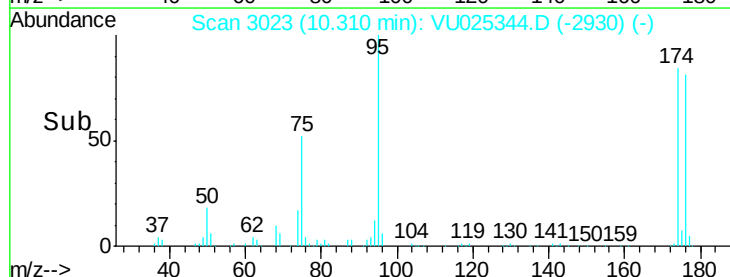
60000

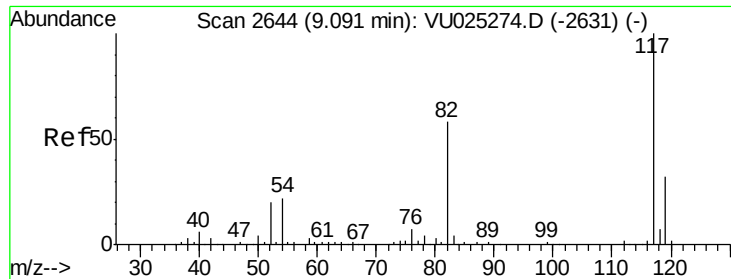
40000

20000

0

Time--> 10.30 10.40





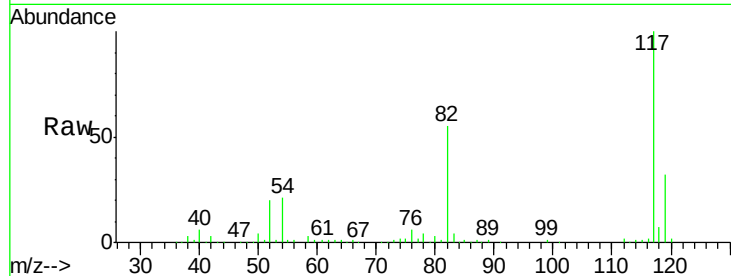
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
117	100	231315		
82	55.1	46.0	69.0	
119	32.2	26.0	39.0	

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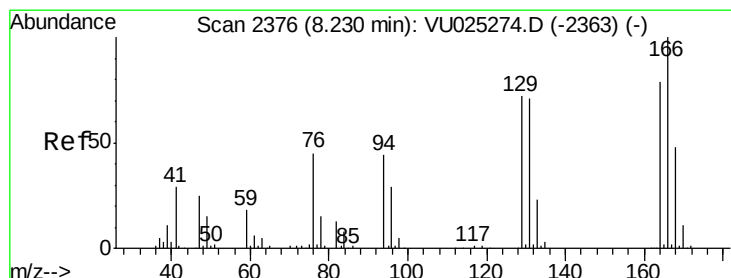
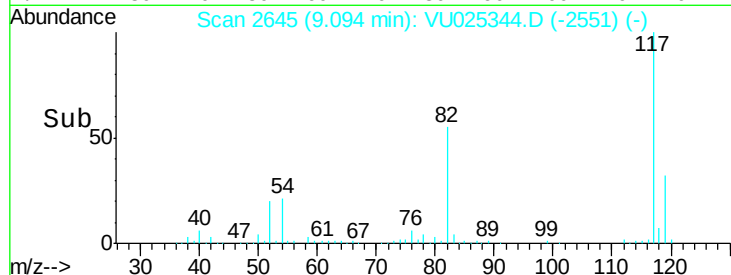
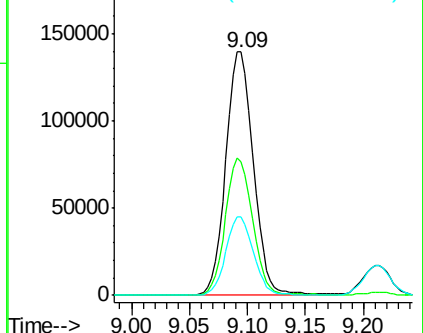


Abundance

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: 19.598 ug/l
RT: 8.23 min Scan# 2377
Delta R.T. 0.00 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	41323		
166	125.3	101.1	151.7	
129	93.3	73.0	109.6	
131	89.2	72.1	108.1	

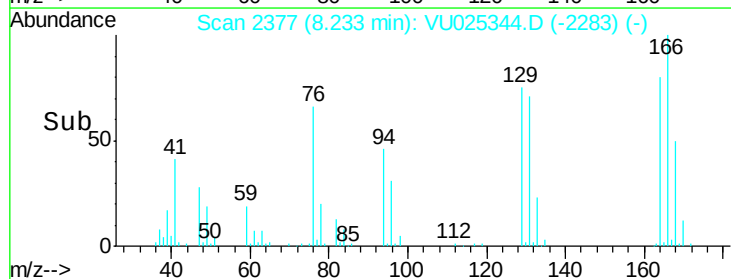
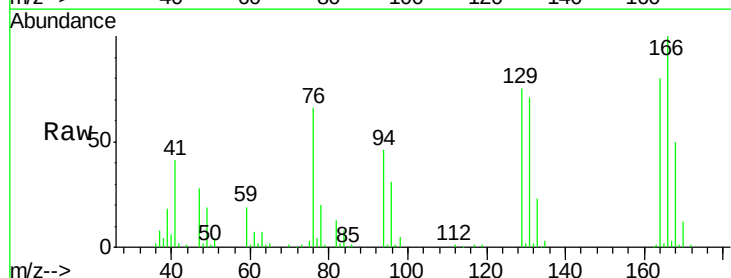
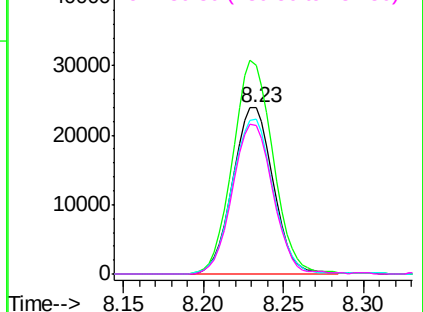
Abundance

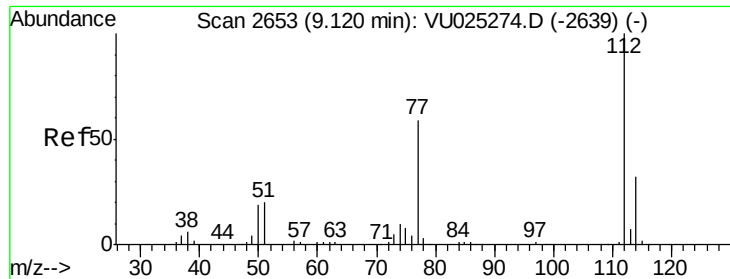
Ion 163.80 (163.50 to 164.50): V

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: 20.111 ug/l

RT: 9.12 min Scan# 2654

Delta R.T. 0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

Instrument :

MSVOA_U

ClientSampleId :

VU0712WBSD02

Tot Ion:112 Resp: 116210

Ion Ratio Lower Upper

112 100

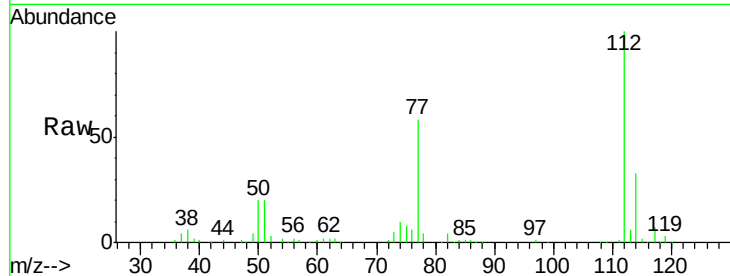
114 32.9 25.8 38.8

Manual Integrations

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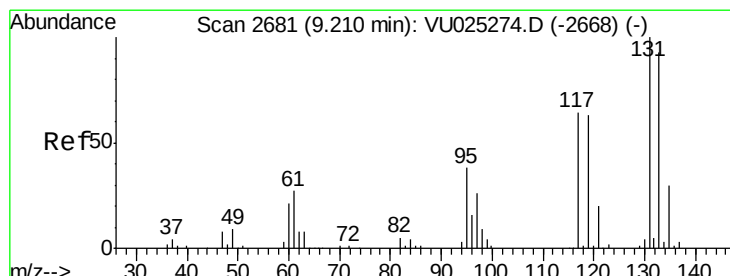
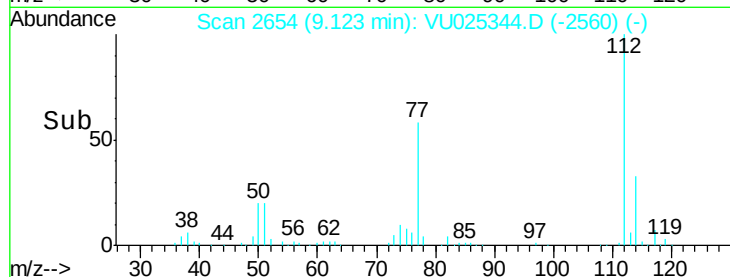
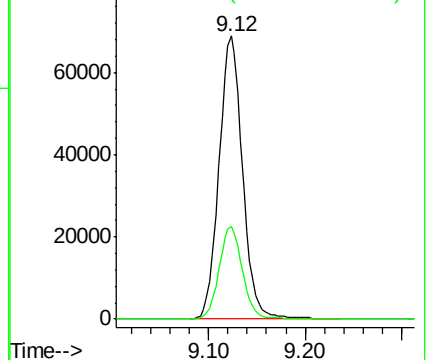
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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 21.065 ug/l

RT: 9.21 min Scan# 2682

Delta R.T. 0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

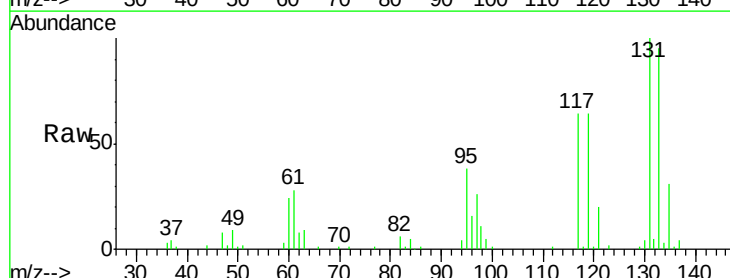
Tgt Ion:131 Resp: 43542

Ion Ratio Lower Upper

131 100

133 95.7 47.8 143.3

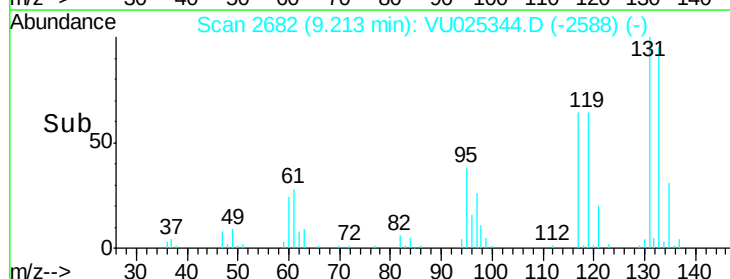
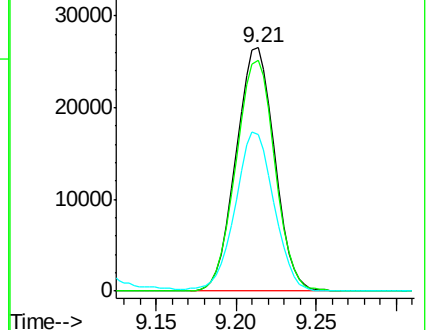
119 65.6 31.6 95.0

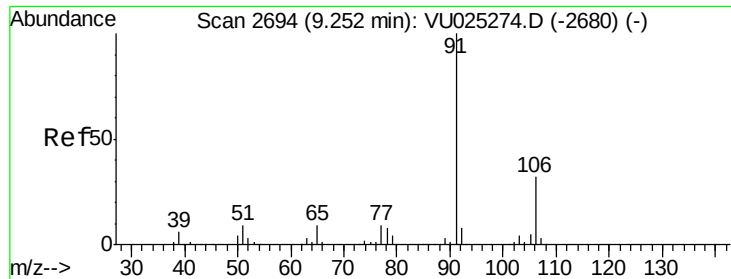


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





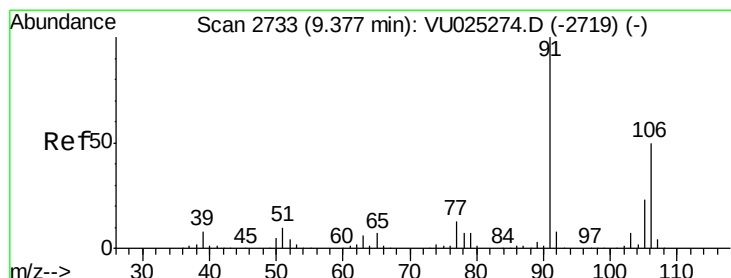
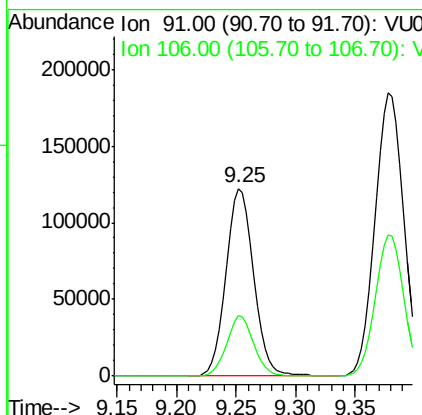
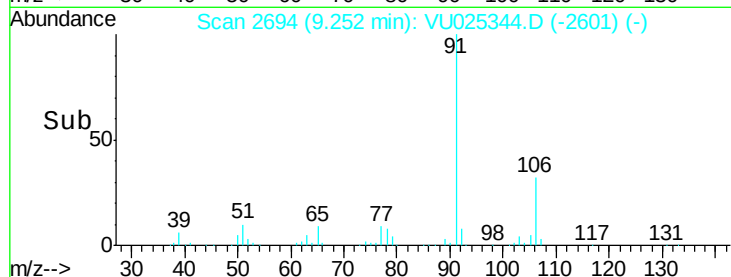
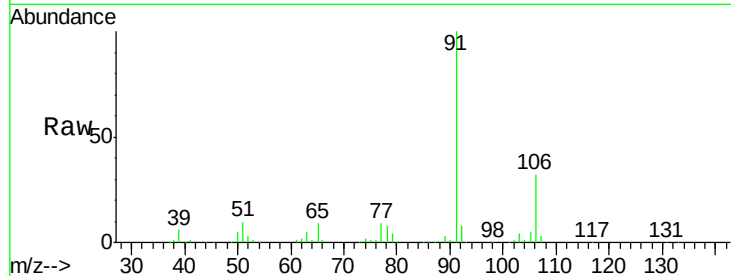
#67
Ethyl Benzene
Concen: 20.096 ug/l
RT: 9.25 min Scan# 2694
Delta R.T. -0.00 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBSD02

Tot Ion: 91 Resp: 197976
Ion Ratio Lower Upper
91 100
106 32.3 25.3 37.9

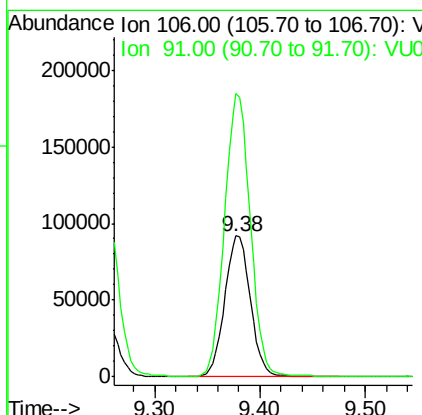
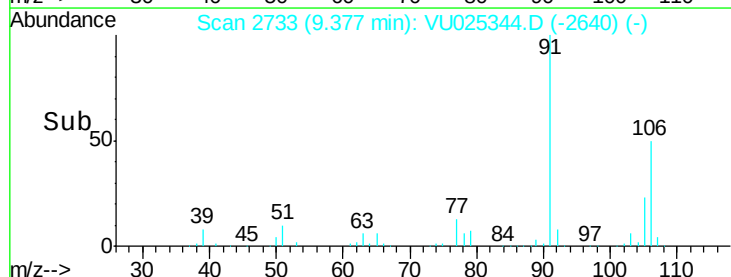
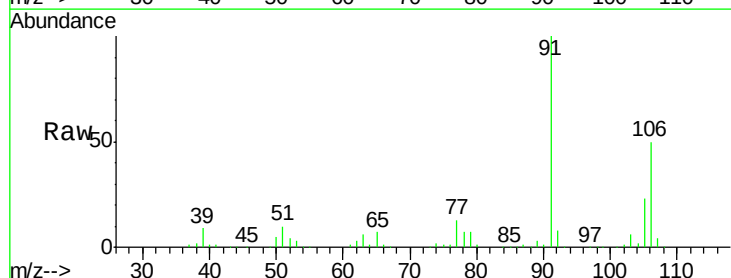
Manual Integrations
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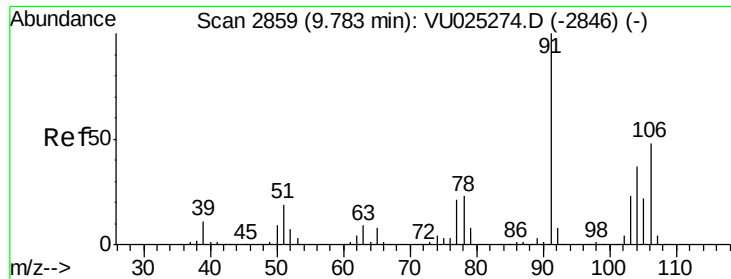
MMDadoda
7/13/2018 11:44:17 AM



#68
m/p-Xylenes
Concen: 40.593 ug/l
RT: 9.38 min Scan# 2733
Delta R.T. -0.00 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Tgt Ion: 106 Resp: 154605
Ion Ratio Lower Upper
106 100
91 202.3 162.3 243.5





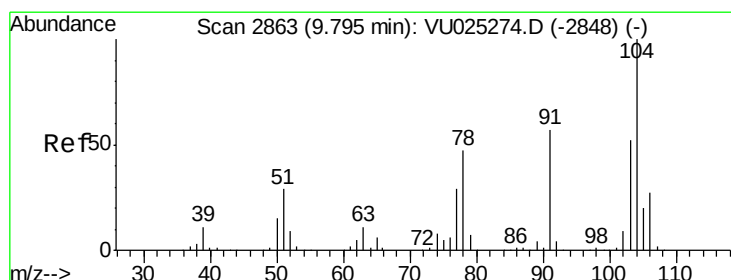
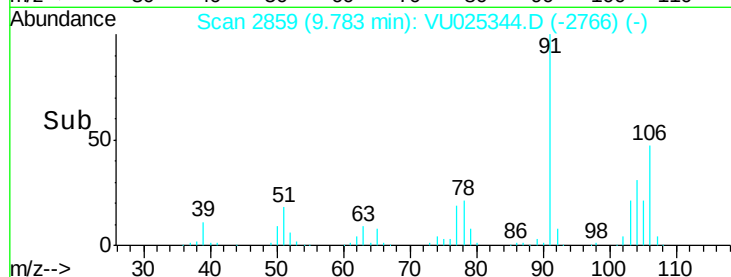
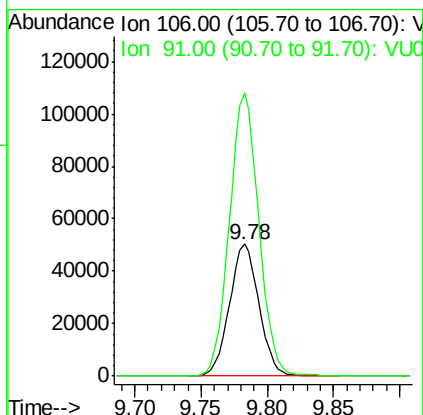
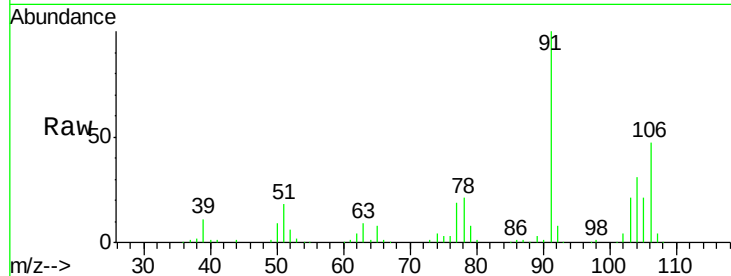
#69
o-Xylene
Concen: 20.377 ug/l
RT: 9.78 min Scan# 2859
Delta R.T. -0.00 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBSD02

Tot Ion:106 Resp: 77700
Ion Ratio Lower Upper
106 100
91 214.4 105.3 315.8

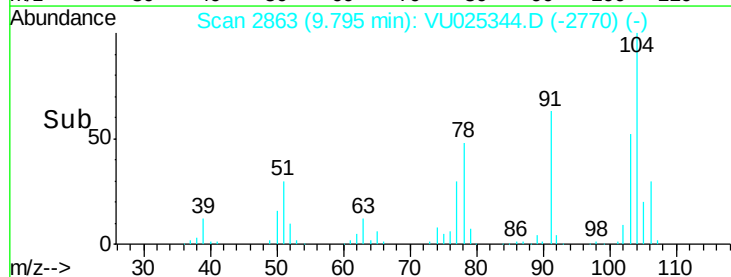
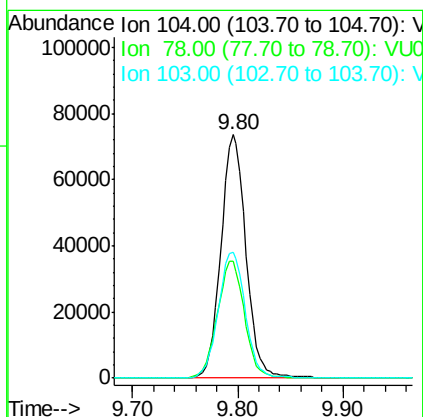
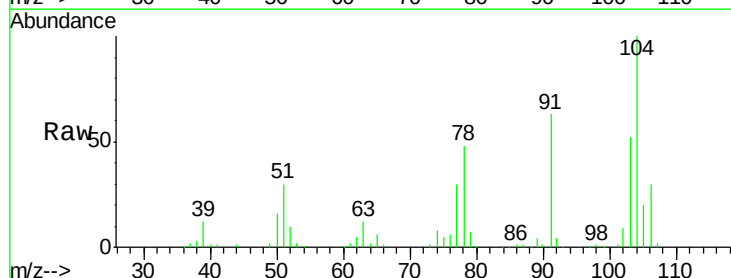
Manual Integrations
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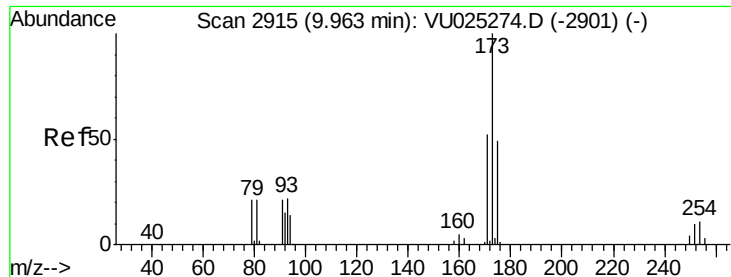
MMDadoda
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#70
Styrene
Concen: 19.976 ug/l
RT: 9.80 min Scan# 2863
Delta R.T. -0.00 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Tgt Ion:104 Resp: 120992
Ion Ratio Lower Upper
104 100
78 52.1 41.6 62.4
103 56.0 44.6 66.8





#71

Bromoform

Concen: 20.020 ug/l

RT: 9.96 min Scan# 2915

Delta R.T. 0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

Instrument :

MSVOA_U

ClientSampleId :

VU0712WBSD02

Tot Ion:173 Resp: 33943

Ion Ratio Lower Upper

173 100

175 48.8 24.0 72.0

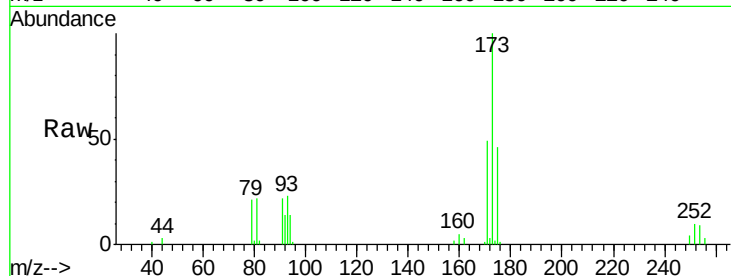
254 0.0 0.0 0.0

Manual Integrations

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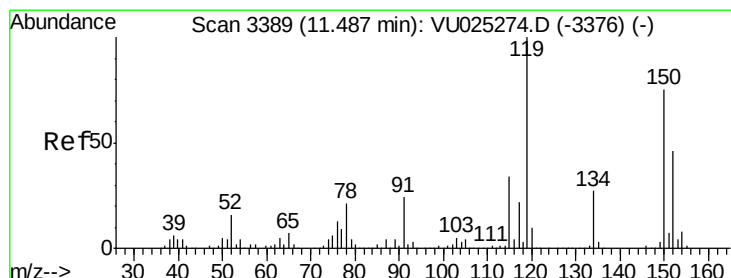
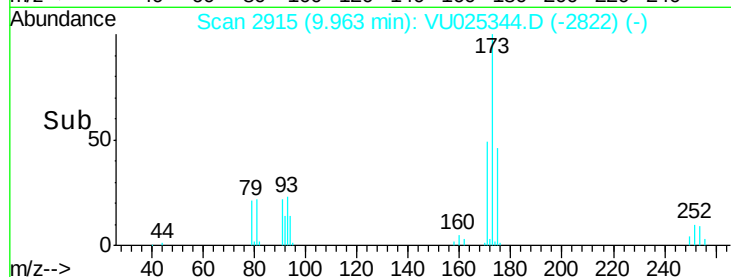
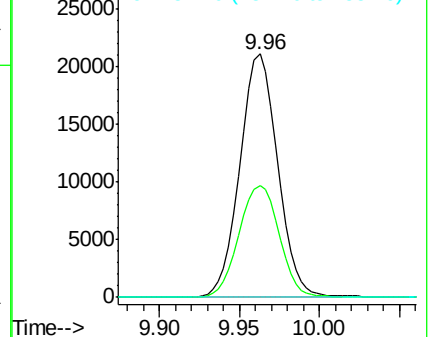
7/13/2018 11:44:17 AM



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: 11.49 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

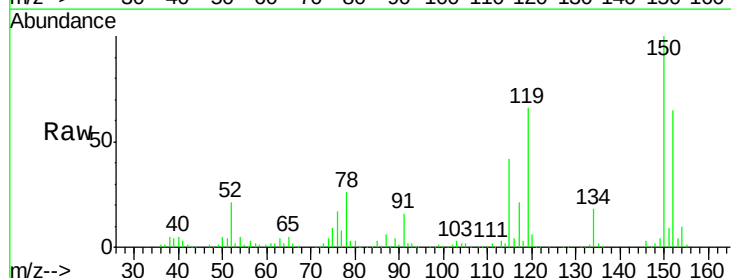
Tgt Ion:152 Resp: 133758

Ion Ratio Lower Upper

152 100

115 67.9 40.1 120.3

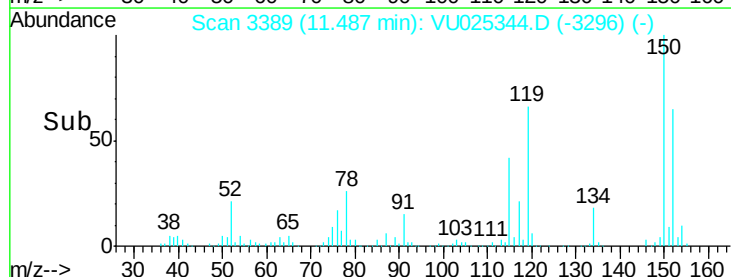
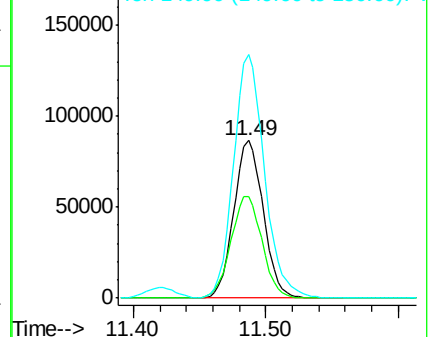
150 162.0 0.0 351.4

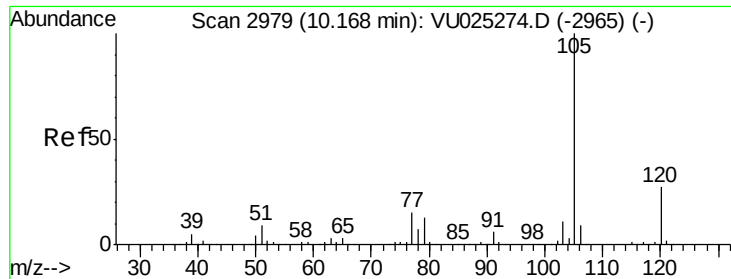


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.206 ug/l

RT: 10.17 min Scan# 2979

Delta R.T. -0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

Instrument :

MSVOA_U

ClientSampleId :

VU0712WBSD02

Tot Ion: 105 Resp: 206504

Ion Ratio Lower Upper

105 100

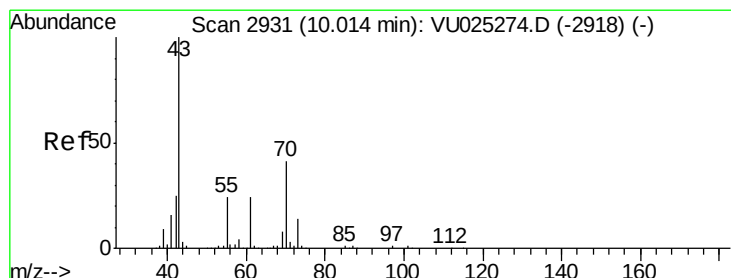
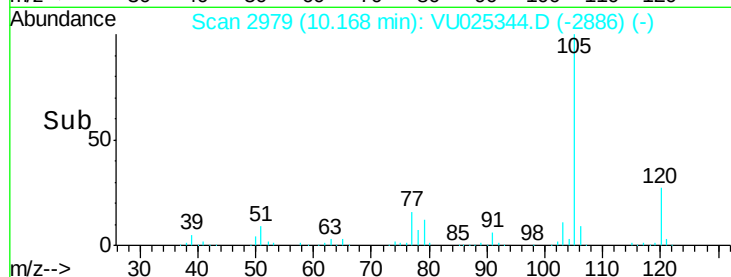
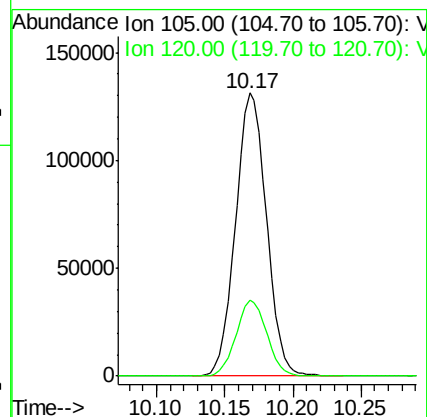
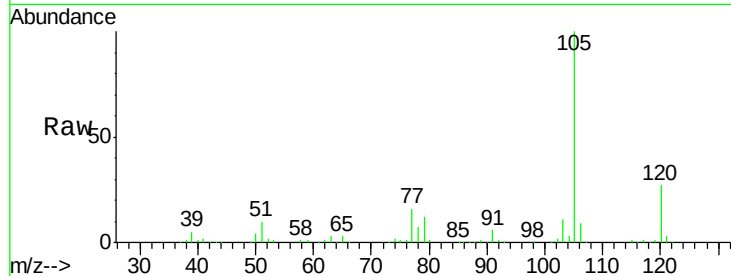
120 26.6 13.5 40.5

Manual Integrations

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#74

N-ethyl acetate

Concen: 21.290 ug/l

RT: 10.01 min Scan# 2931

Delta R.T. 0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

Tgt Ion: 43 Resp: 85935

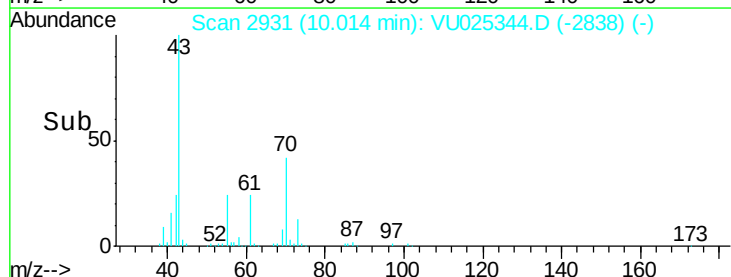
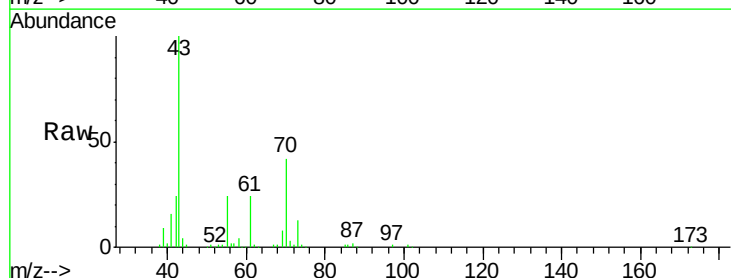
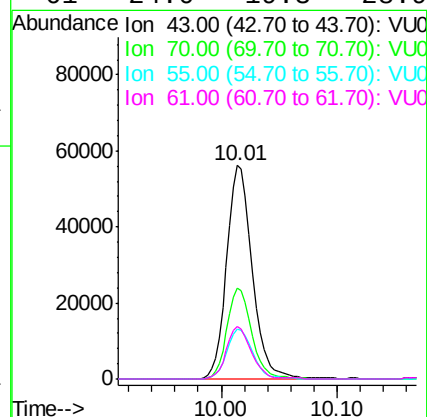
Ion Ratio Lower Upper

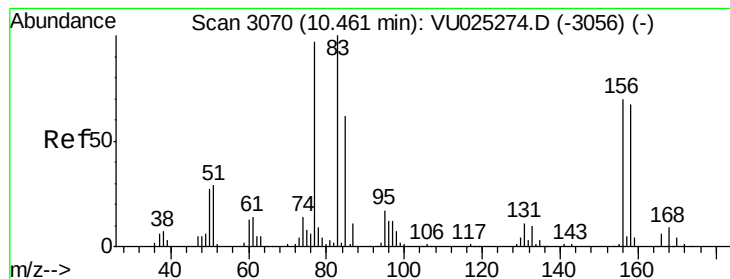
43 100

70 41.1 33.4 50.2

55 23.7 19.0 28.6

61 24.0 19.3 28.9





#75

1,1,2,2-Tetrachloroethane

Concen: 20.857 ug/l

RT: 10.46 min Scan# 3070

Delta R.T. -0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

Instrument :

MSVOA_U

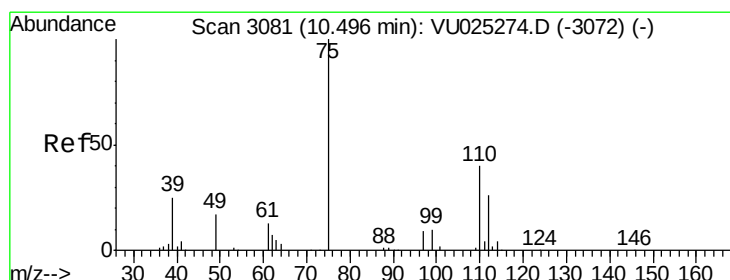
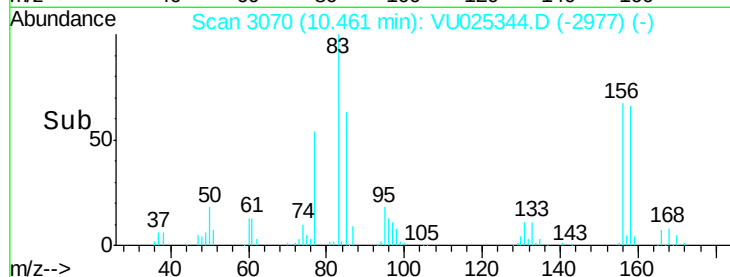
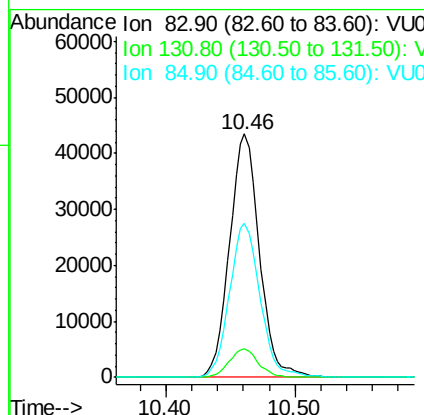
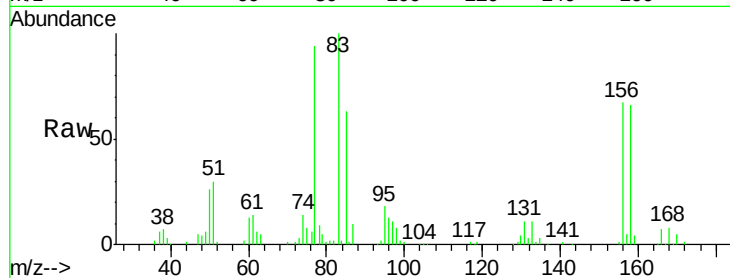
ClientSampleId :

VU0712WBSD02

Tot Ion	83	Resp	69736
Ion	Ratio	Lower	Upper
83	100		
131	11.2	5.5	16.4
85	64.8	31.6	94.8

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 24.297 ug/l m

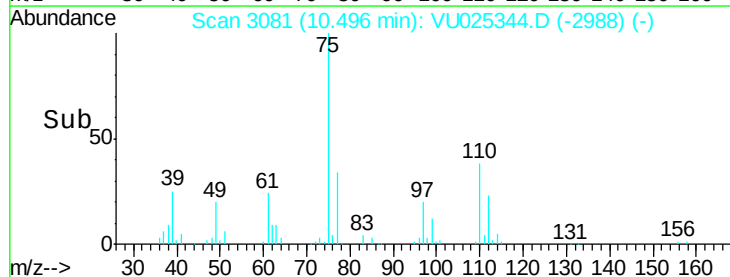
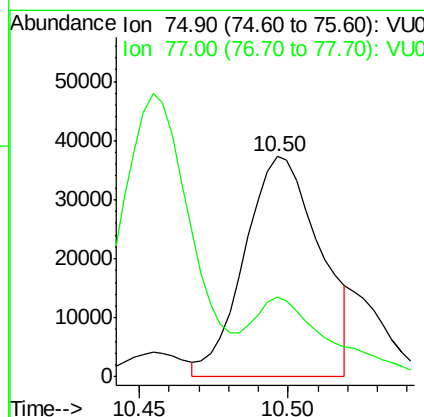
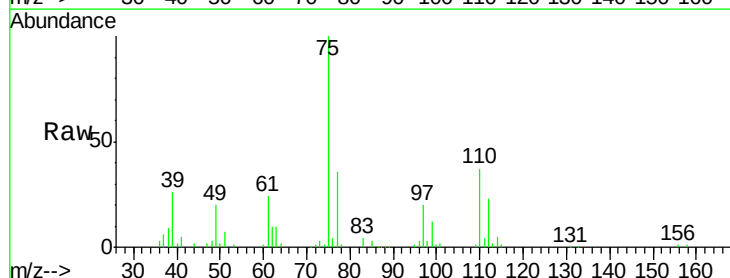
RT: 10.50 min Scan# 3081

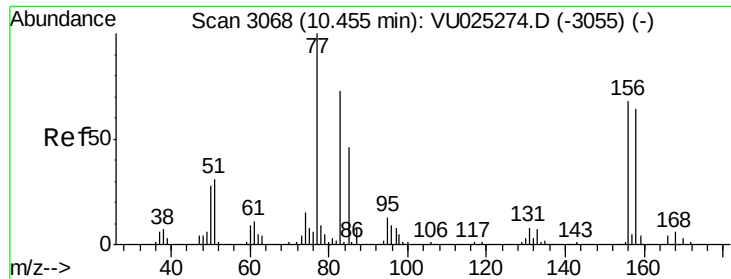
Delta R.T. 0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

Tgt Ion	75	Resp	65808
Ion	Ratio	Lower	Upper
75	100		
77	37.4	20.4	61.3





#77

Bromobenzene

Concen: 20.104 ug/l

RT: 10.45 min Scan# 3068

Delta R.T. -0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

Instrument :

MSVOA_U

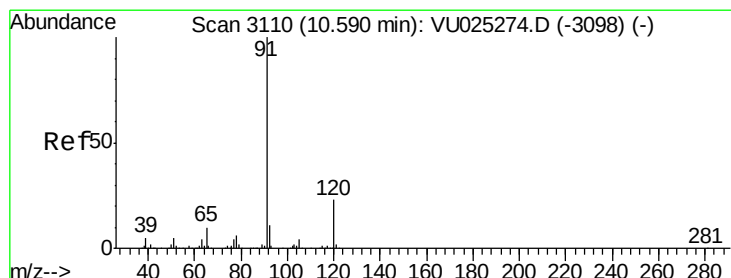
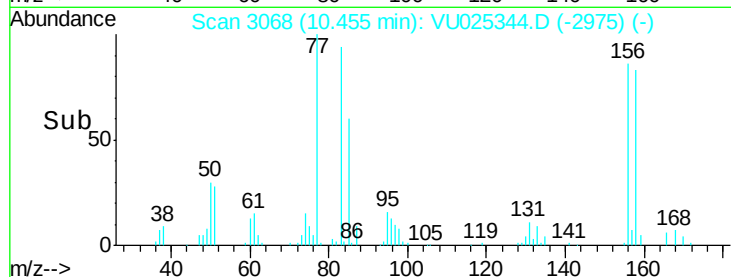
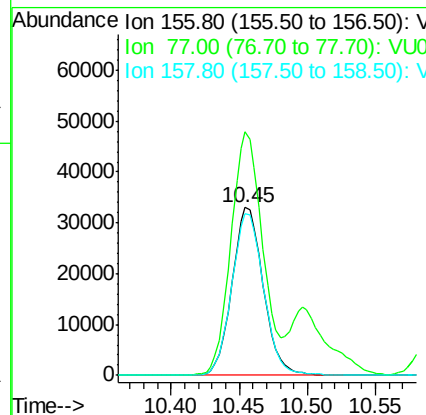
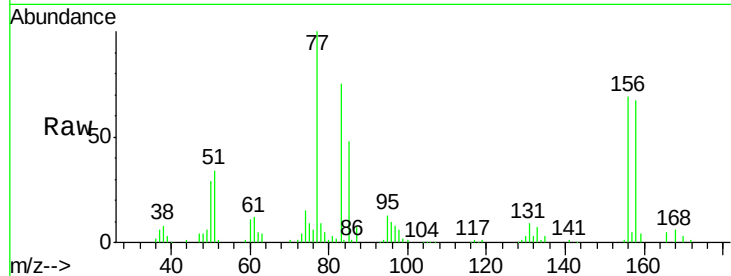
ClientSampleId :

VU0712WBSD02

Tot Ion	Ratio	Lower	Upper
156	100		
77	146.3	73.8	221.4
158	98.5	48.0	144.0

Manual Integrations
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#78

n-propylbenzene

Concen: 20.037 ug/l

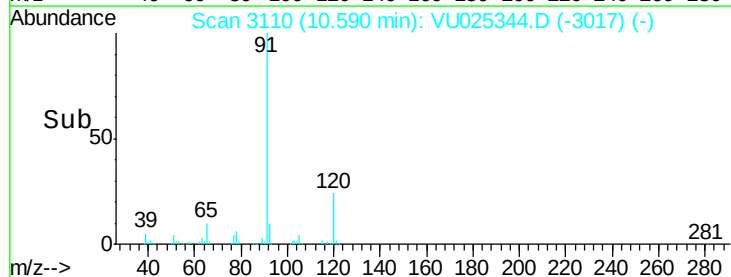
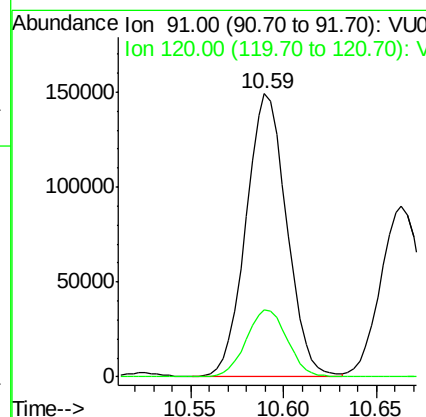
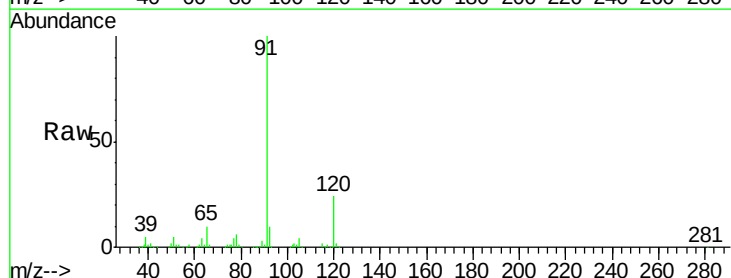
RT: 10.59 min Scan# 3110

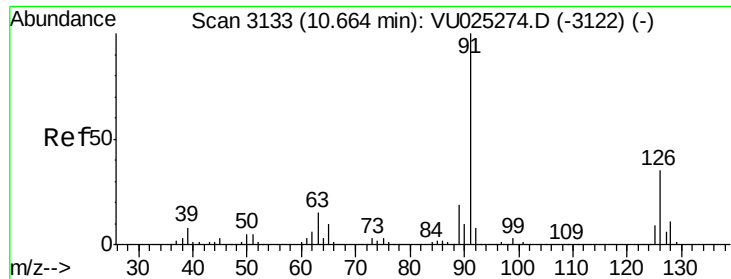
Delta R.T. -0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

Tgt Ion	Ratio	Lower	Upper
91	100		
120	24.0	11.8	35.3





#79

2-Chlorotoluene

Concen: 21.903 ug/l

RT: 10.66 min Scan# 3133

Delta R.T. 0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

Instrument :

MSVOA_U

ClientSampleId :

VU0712WBSD02

Tot Ion: 91 Resp: 142094

Ion Ratio Lower Upper

91 100

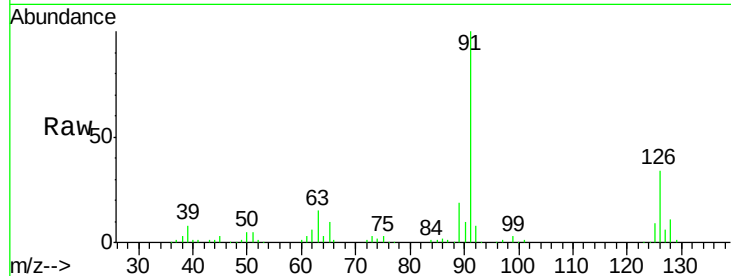
126 34.3 17.5 52.6

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VU025274.D (-3122) (-)

Ion 125.90 (125.60 to 126.60): VU025274.D (-3122) (-)

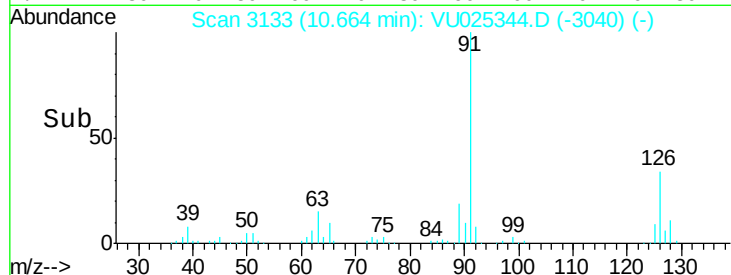
150000

100000

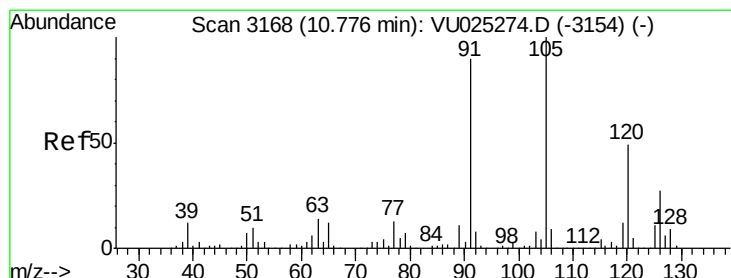
50000

0

10.60 10.65 10.70 10.75



Time-->



#80

1,3,5-Trimethylbenzene

Concen: 20.196 ug/l

RT: 10.78 min Scan# 3168

Delta R.T. -0.00 min

Lab File: VU025344.D

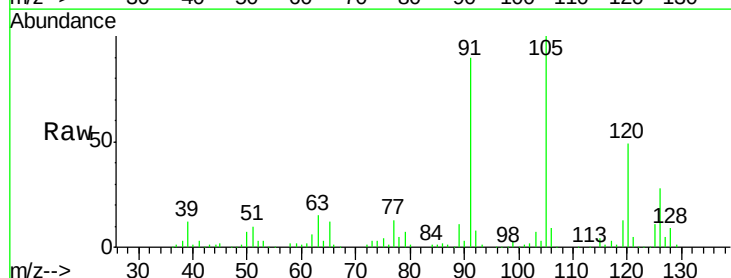
Acq: 12 Jul 2018 17:07

Tgt Ion: 105 Resp: 173676

Ion Ratio Lower Upper

105 100

120 48.0 24.1 72.2



Abundance Ion 105.00 (104.70 to 105.70): VU025274.D (-3154) (-)

Ion 120.00 (119.70 to 120.70): VU025274.D (-3154) (-)

120000

100000

80000

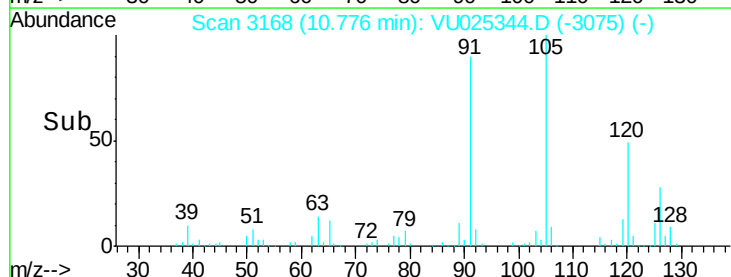
60000

40000

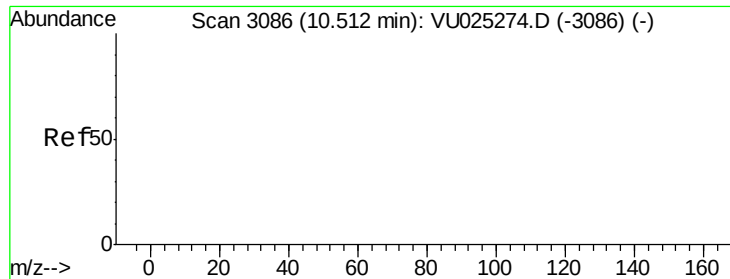
20000

0

10.70 10.75 10.80 10.85



Time-->



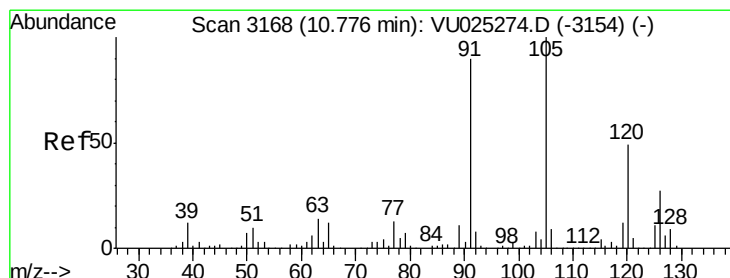
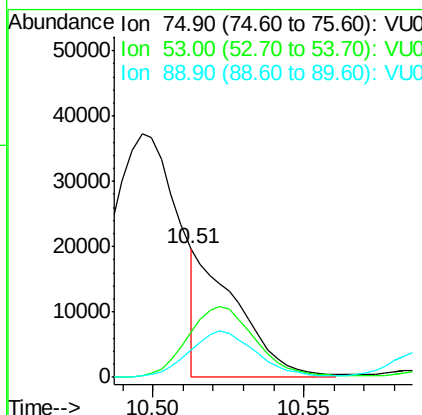
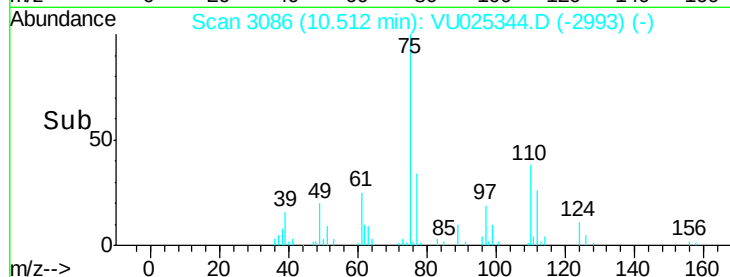
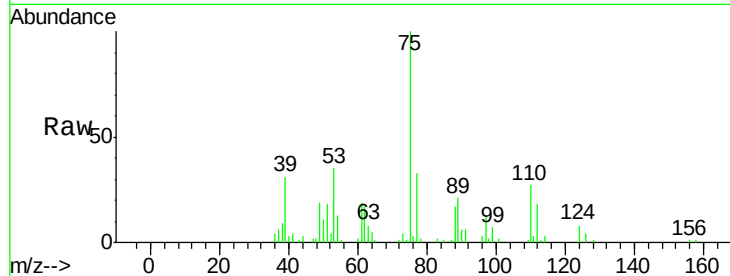
#81
trans-1,4-Dichloro-2-butene
Concen: 17.979 ug/l m
RT: 10.51 min Scan# 3086
Delta R.T. -0.00 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBSD02

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

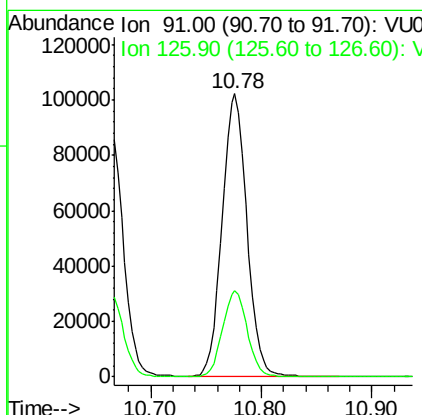
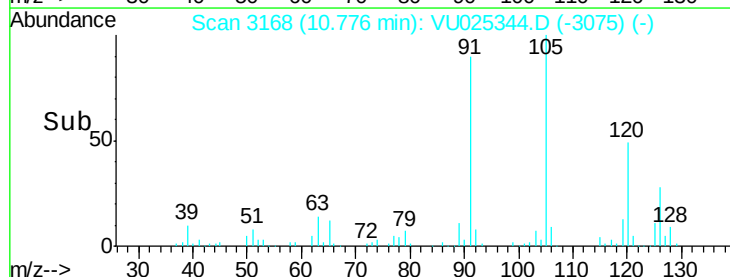
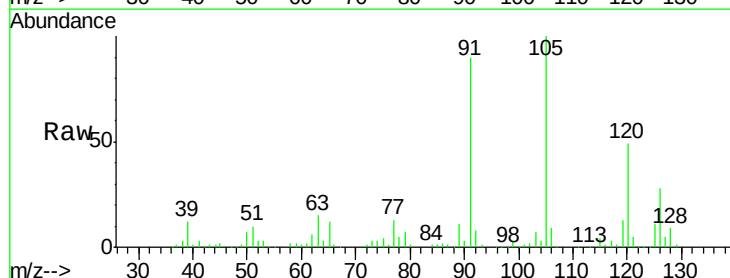
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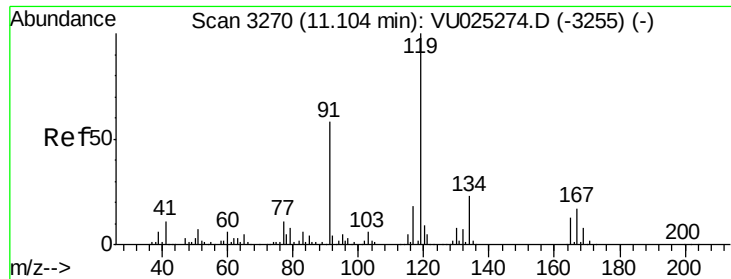
MMDadoda
7/13/2018 11:44:17 AM



#82
4-Chlorotoluene
Concen: 19.941 ug/l
RT: 10.78 min Scan# 3168
Delta R.T. -0.00 min
Lab File: VU025344.D
Acq: 12 Jul 2018 17:07

Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.2	15.3	45.9





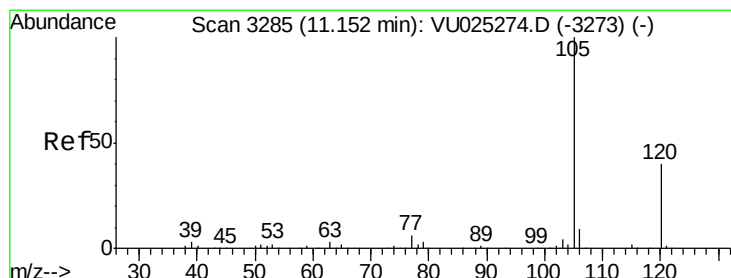
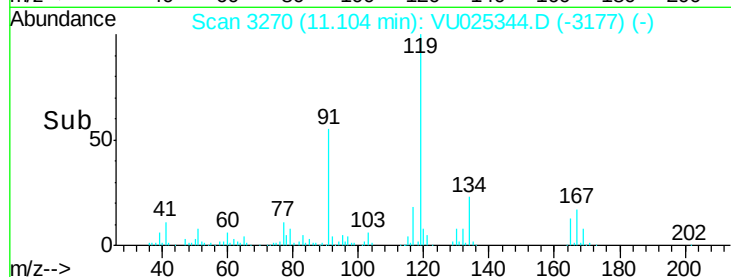
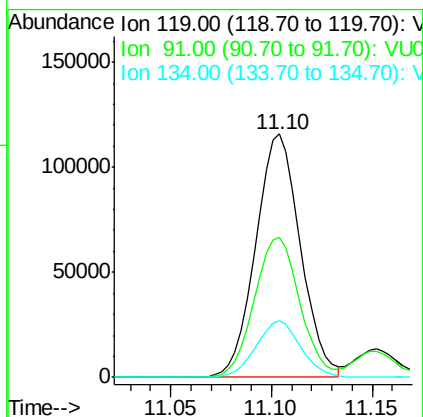
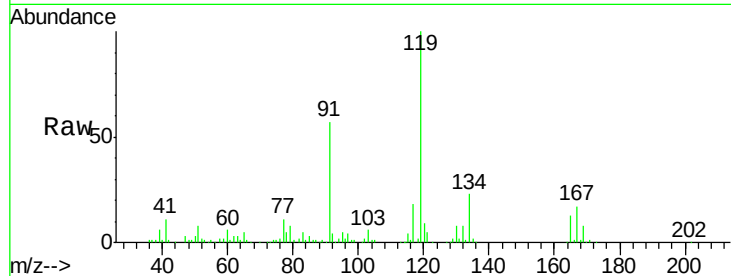
#83
 tert-Butylbenzene
 Concen: 20.600 ug/l
 RT: 11.10 min Scan# 3270
 Delta R.T. -0.00 min
 Lab File: VU025344.D
 Acq: 12 Jul 2018 17:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0712WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
119	100	179014		
91	58.6	29.7	89.1	
134	23.0	11.5	34.5	

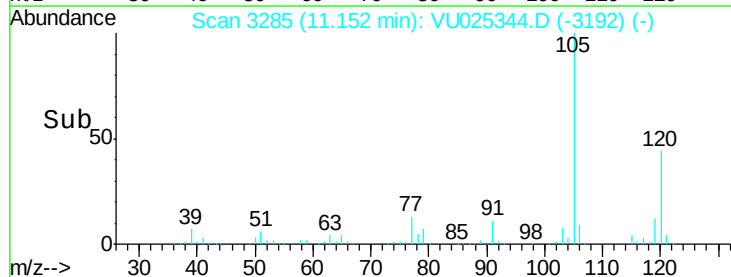
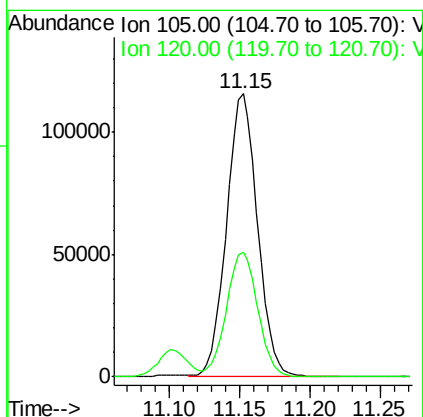
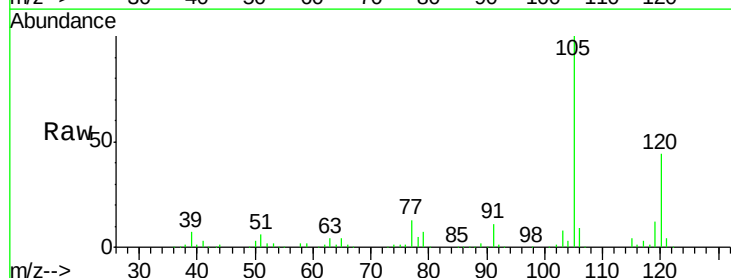
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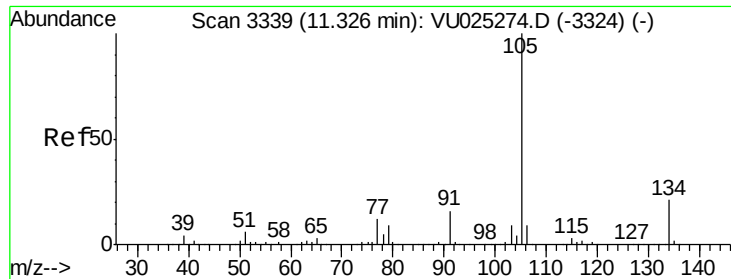
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#84
 1,2,4-Trimethylbenzene
 Concen: 20.050 ug/l
 RT: 11.15 min Scan# 3285
 Delta R.T. -0.00 min
 Lab File: VU025344.D
 Acq: 12 Jul 2018 17:07

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	176707		
120	45.1	22.3	66.8	





#85

sec-Butylbenzene

Concen: 20.476 ug/l

RT: 11.33 min Scan# 3339

Delta R.T. -0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

Instrument :

MSVOA_U

ClientSampleId :

VU0712WBSD02

Tot Ion:105 Resp: 209511

Ion Ratio Lower Upper

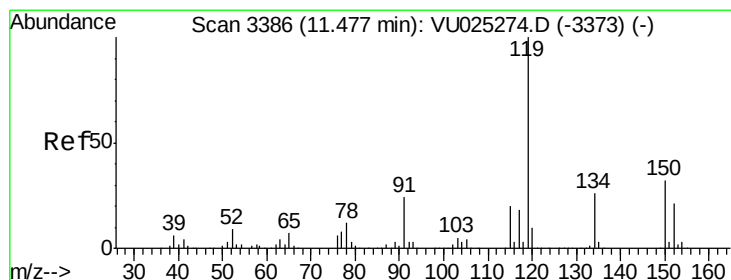
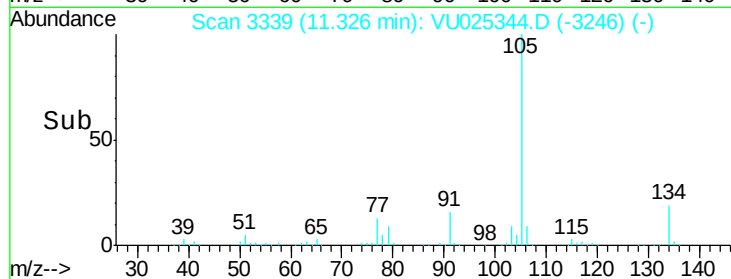
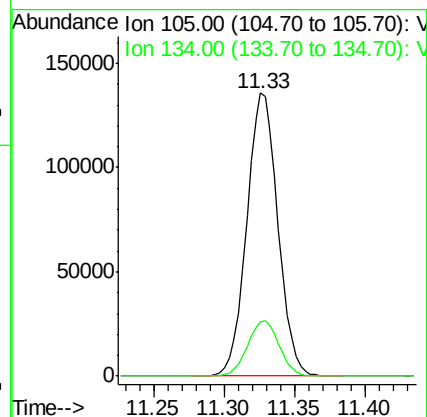
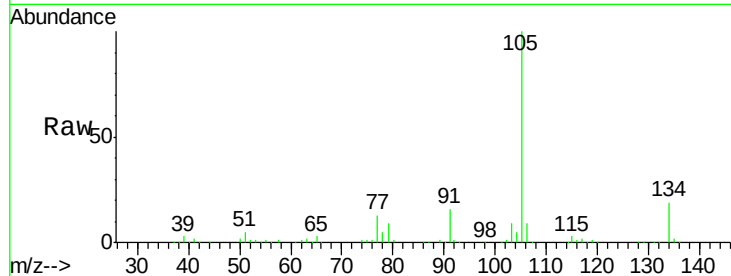
105 100

134 20.0 10.3 30.8

Manual Integrations
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#86

p-Isopropyltoluene

Concen: 20.040 ug/l

RT: 11.48 min Scan# 3386

Delta R.T. -0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

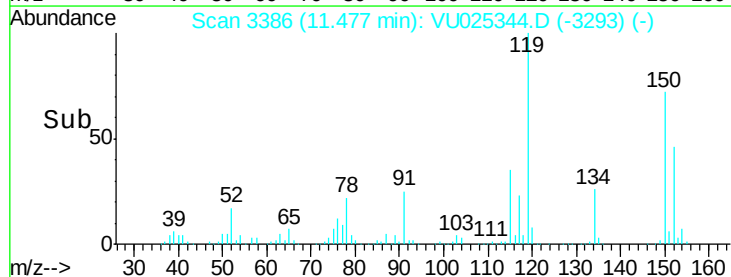
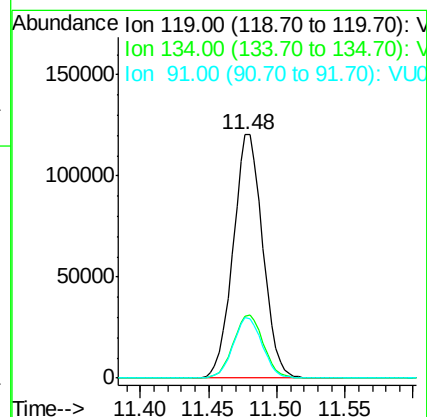
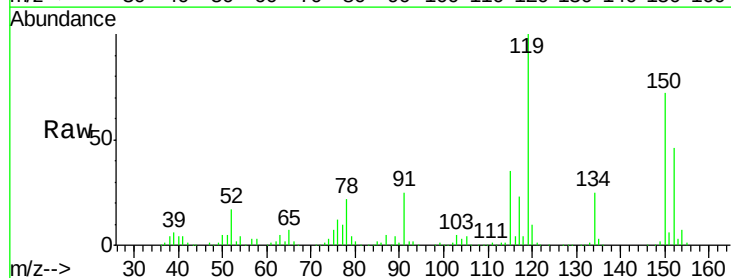
Tgt Ion:119 Resp: 181562

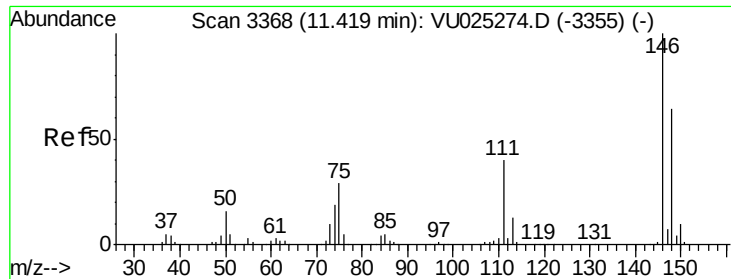
Ion Ratio Lower Upper

119 100

134 26.0 13.2 39.5

91 24.5 12.0 36.1





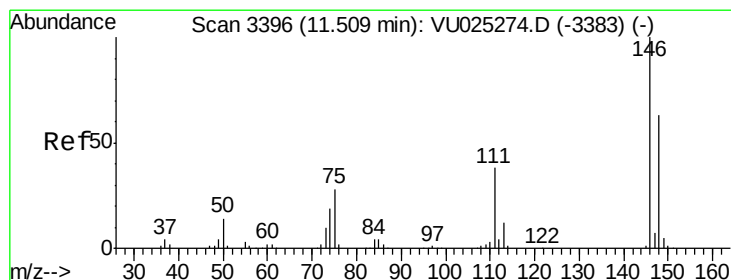
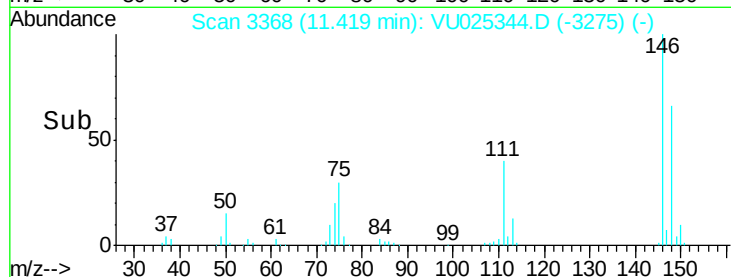
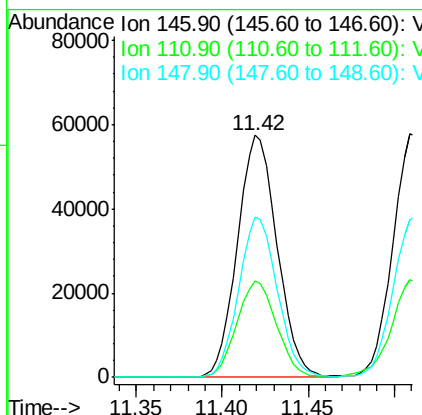
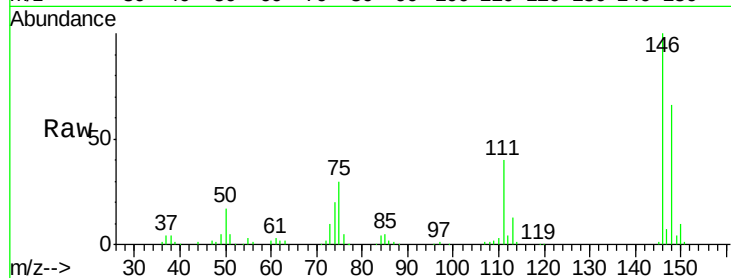
#87
 1,3-Dichlorobenzene
 Concen: 19.294 ug/l
 RT: 11.42 min Scan# 3368
 Delta R.T. -0.00 min
 Lab File: VU025344.D
 Acq: 12 Jul 2018 17:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0712WBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.7	19.7	59.1
148	64.4	32.1	96.3

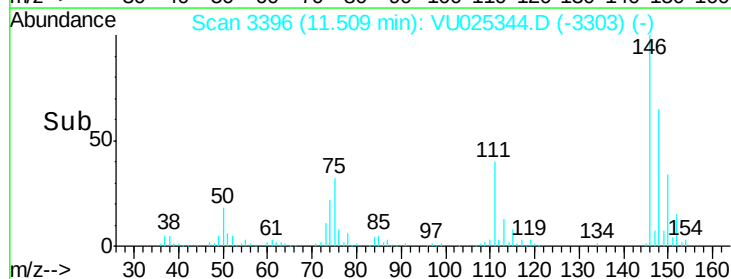
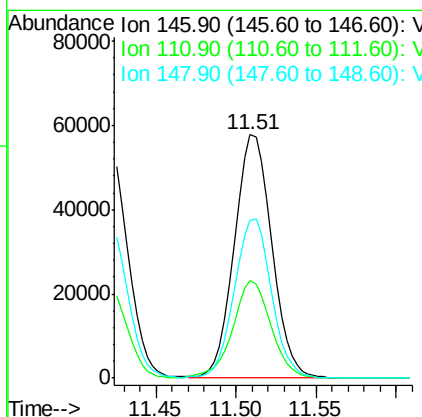
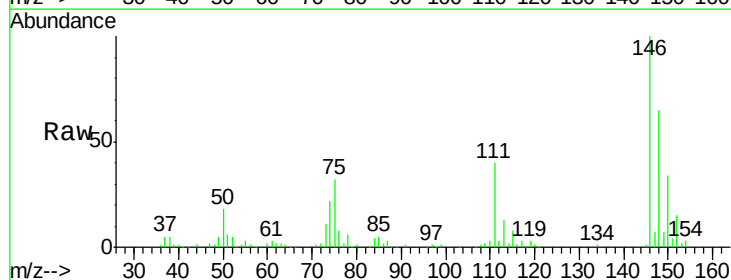
Manual Integrations
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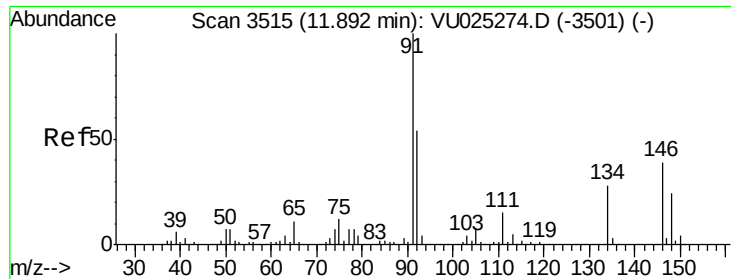
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#88
 1,4-Dichlorobenzene
 Concen: 20.576 ug/l
 RT: 11.51 min Scan# 3396
 Delta R.T. 0.00 min
 Lab File: VU025344.D
 Acq: 12 Jul 2018 17:07

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.9	19.4	58.1
148	65.0	31.7	95.1





#89

n-Butylbenzene

Concen: 18.433 ug/l

RT: 11.89 min Scan# 3515

Delta R.T. -0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

Instrument :

MSVOA_U

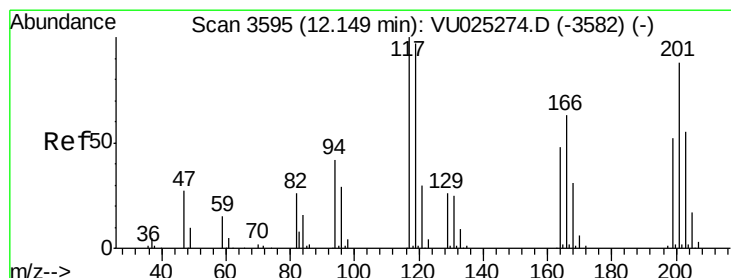
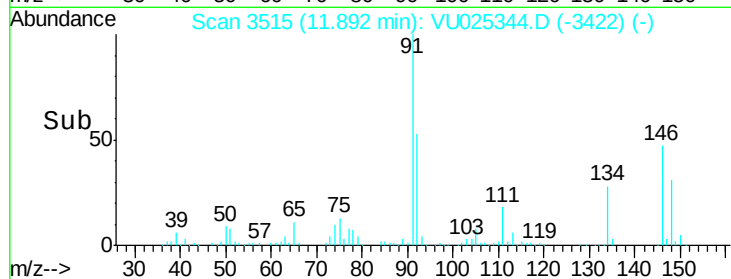
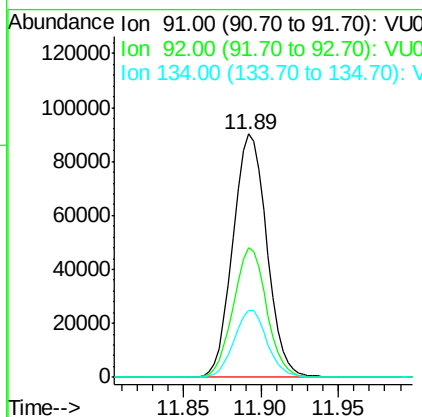
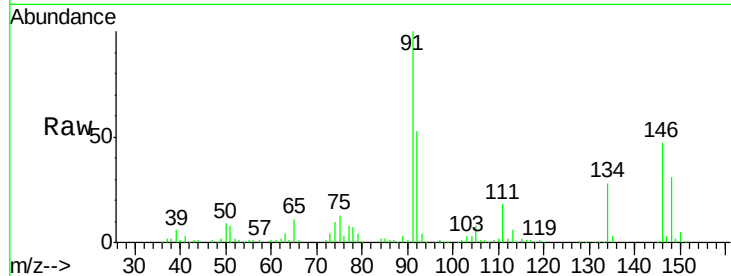
ClientSampleId :

VU0712WBSD02

Tot Ion:	91	Resp:	137282
Ion Ratio	Lower	Upper	
91	100		
92	52.4	26.5	79.5
134	27.0	13.6	40.7

Manual Integrations
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#90

Hexachloroethane

Concen: 18.579 ug/l

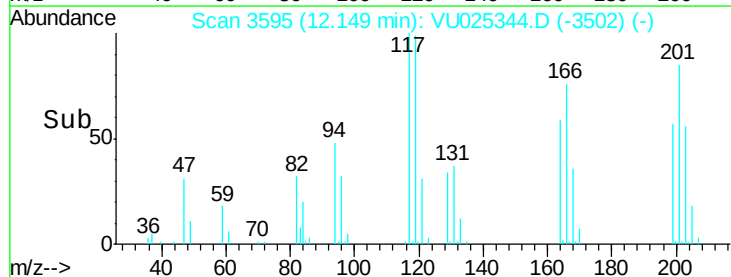
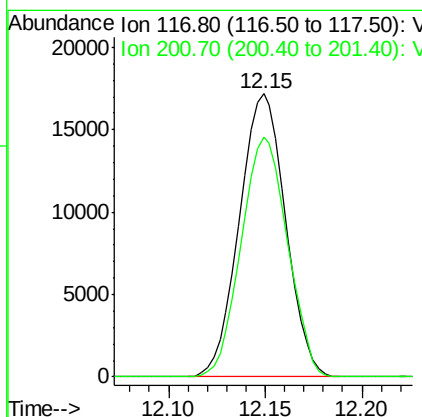
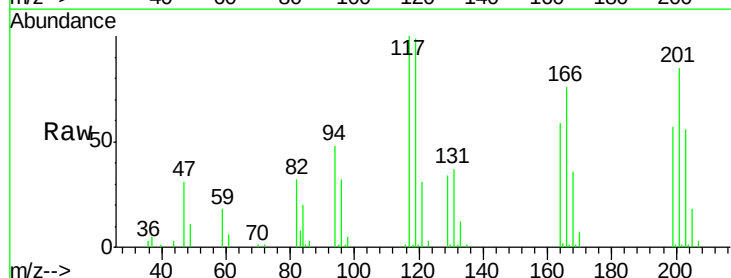
RT: 12.15 min Scan# 3595

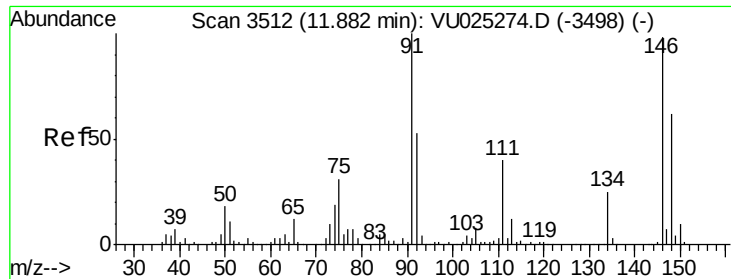
Delta R.T. -0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

Tgt Ion:	117	Resp:	28502
Ion Ratio	Lower	Upper	
117	100		
201	85.0	42.5	127.6





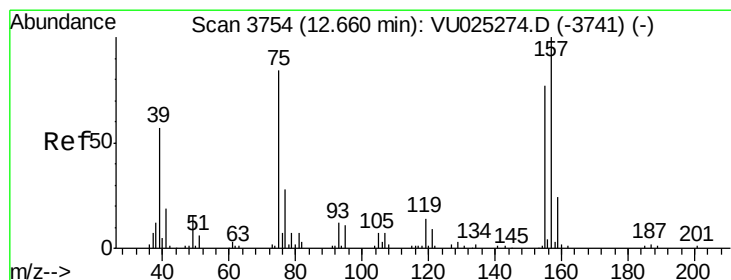
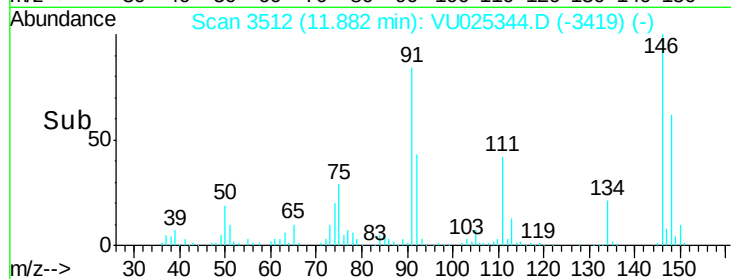
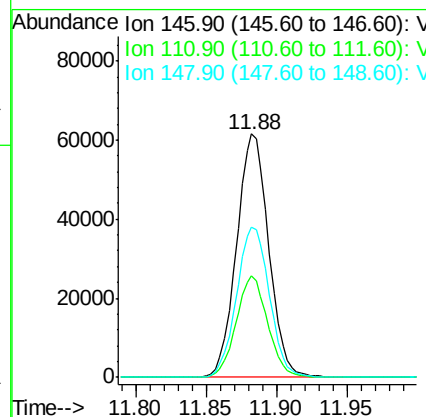
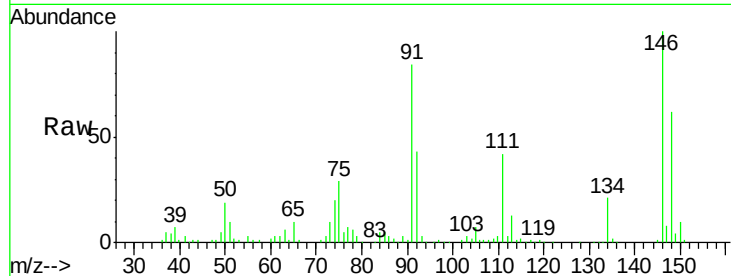
#91
 1,2-Dichlorobenzene
 Concen: 20.383 ug/l
 RT: 11.88 min Scan# 3512
 Delta R.T. -0.00 min
 Lab File: VU025344.D
 Acq: 12 Jul 2018 17:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0712WBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.8	20.6	61.8
148	63.1	31.5	94.5

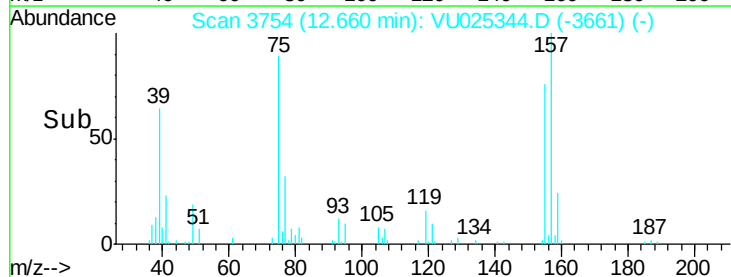
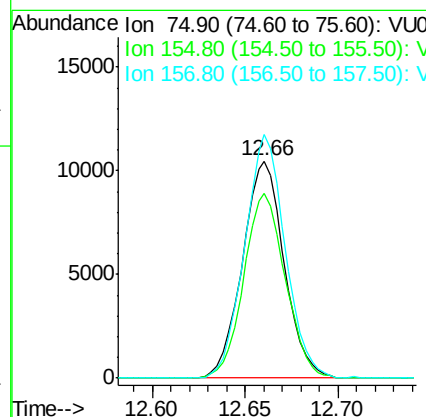
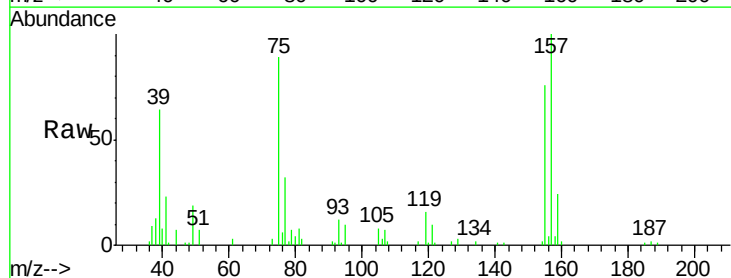
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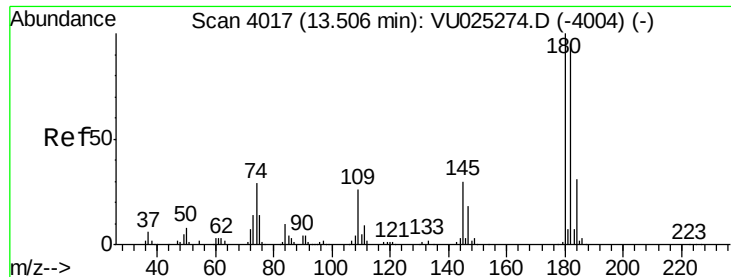
MMDadoda
 7/13/2018 11:44:17 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.063 ug/l
 RT: 12.66 min Scan# 3754
 Delta R.T. -0.00 min
 Lab File: VU025344.D
 Acq: 12 Jul 2018 17:07

Tgt Ion	Ratio	Lower	Upper
75	100		
155	84.7	44.5	133.3
157	109.2	57.0	170.8





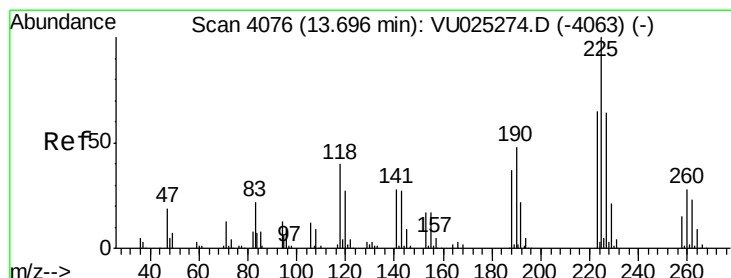
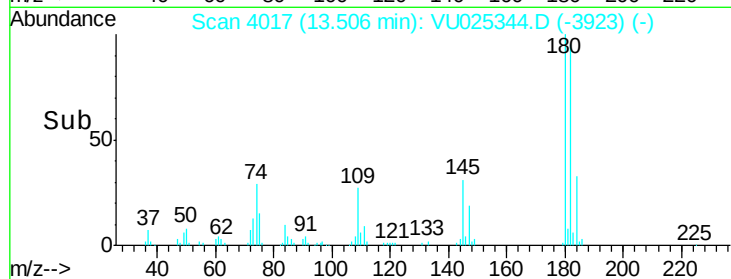
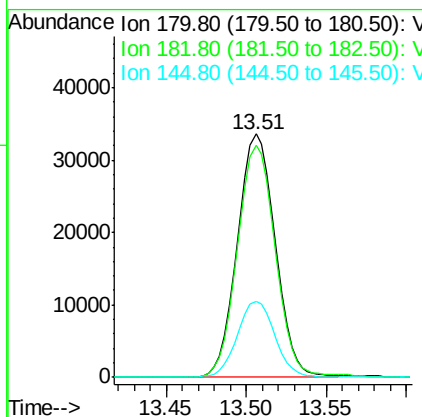
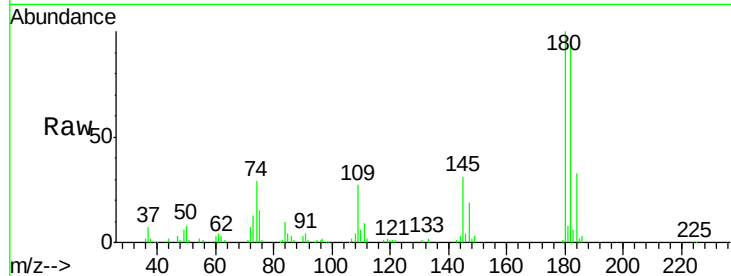
#93
 1,2,4-Trichlorobenzene
 Concen: 18.970 ug/l
 RT: 13.51 min Scan# 4017
 Delta R.T. 0.00 min
 Lab File: VU025344.D
 Acq: 12 Jul 2018 17:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0712WBSD02

Tot Ion:	180	Resp:	54253
Ion Ratio	Lower	Upper	
180	100		
182	96.3	47.3	141.9
145	31.0	14.9	44.7

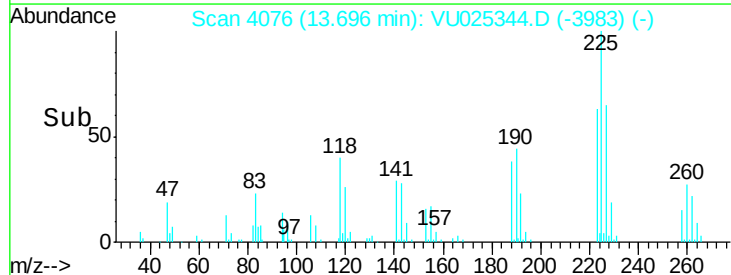
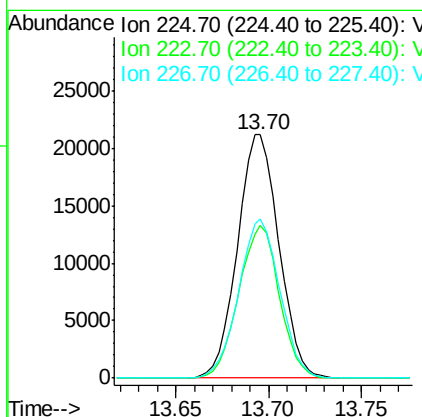
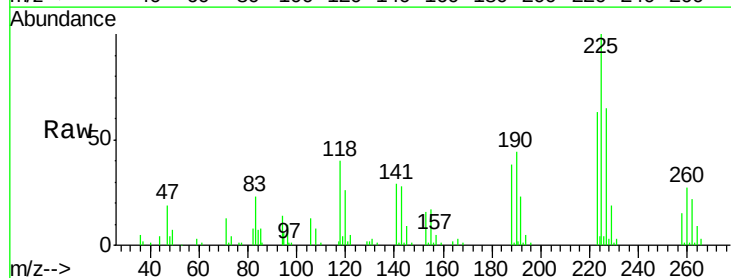
Manual Integrations
 APPROVED

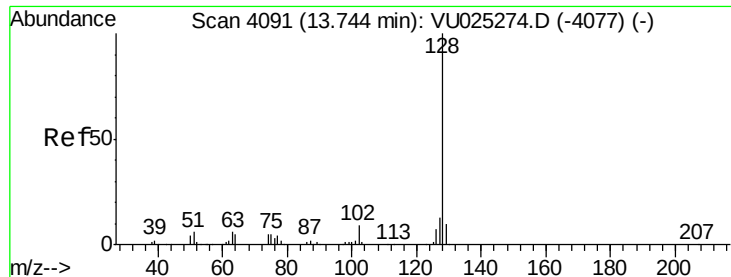
MMDadoda
 7/13/2018 11:44:17 AM



#94
 Hexachlorobutadiene
 Concen: 18.999 ug/l
 RT: 13.70 min Scan# 4076
 Delta R.T. -0.00 min
 Lab File: VU025344.D
 Acq: 12 Jul 2018 17:07

Tgt Ion:	225	Resp:	32791
Ion Ratio	Lower	Upper	
225	100		
223	61.3	31.9	95.7
227	64.9	32.3	96.9





#95

Naphthalene

Concen: 19.614 ug/l

RT: 13.74 min Scan# 4091

Delta R.T. 0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

Instrument :

MSVOA_U

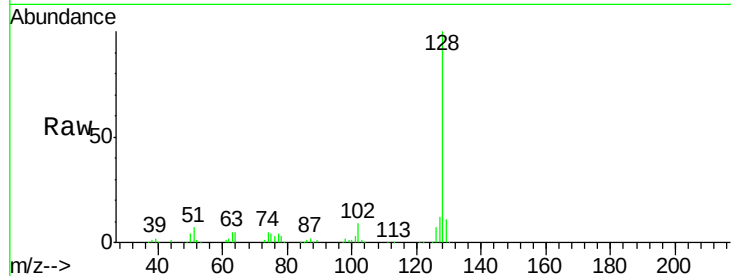
ClientSampleId :

VU0712WBSD02

Tot Ion:	128	Resp:	177492
Ion Ratio	Lower	Upper	
128	100		
127	12.4	10.5	15.7
129	10.8	8.3	12.5

Manual Integrations
APPROVED

MMDadoda
7/13/2018 11:44:17 AM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

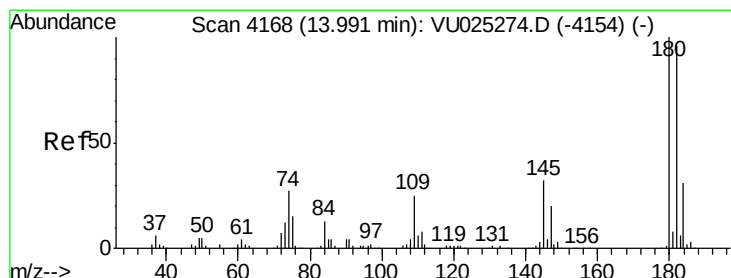
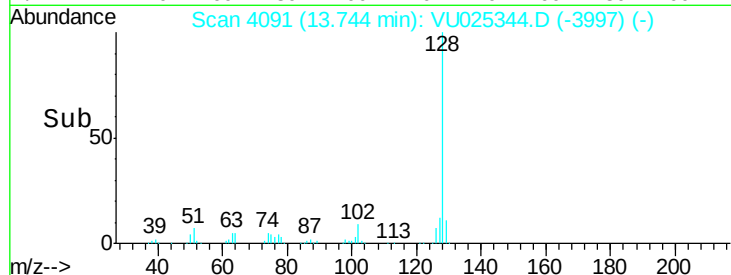
13.74

100000

50000

0

Time-->



#96

1,2,3-Trichlorobenzene

Concen: 19.533 ug/l

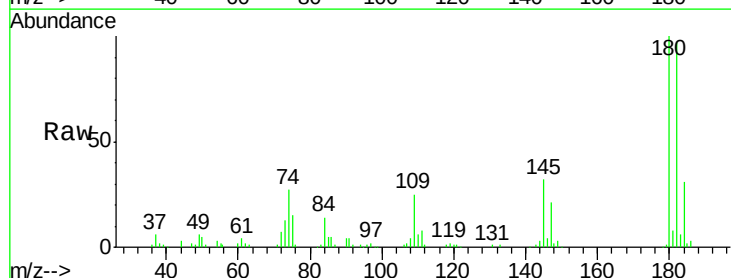
RT: 13.99 min Scan# 4168

Delta R.T. 0.00 min

Lab File: VU025344.D

Acq: 12 Jul 2018 17:07

Tgt Ion:	180	Resp:	58759
Ion Ratio	Lower	Upper	
180	100		
182	97.5	47.8	143.3
145	32.6	15.6	46.8



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

13.99

50000

40000

30000

20000

10000

0

Time-->

