

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071218\
 Data File : VU025361.D
 Acq On : 13 Jul 2018 00:49
 Operator : MD/SY
 Sample : VU0712WBS03
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0712WBS03

Manual Integrations
 APPROVED

MMDadoda
 7/13/2018 11:44:20 AM

Quant Time: Jul 13 04:50:26 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	163541	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	252088	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	232060	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	131389	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	128203	50.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.92%	
35) Dibromofluoromethane	4.89	113	102621	48.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.52%	
50) Toluene-d8	7.57	98	337251	46.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.62%	
62) 4-Bromofluorobenzene	10.31	95	133195	45.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.86%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.20	85	29888	17.659	ug/l 99
3) Chloromethane	1.33	50	31561	19.068	ug/l 98
4) Vinyl Chloride	1.40	62	33945	18.251	ug/l 99
5) Bromomethane	1.62	94	23154	21.322	ug/l 96
6) Chloroethane	1.70	64	23648	20.168	ug/l 98
7) Trichlorofluoromethane	1.89	101	56668	19.387	ug/l 100
8) Diethyl Ether	2.10	74	22881	20.860	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.29	101	36138	19.951	ug/l 99
10) Methyl Iodide	2.41	142	38259	23.668	ug/l 98
11) Tert butyl alcohol	2.82	59	59453	107.261	ug/l 99
12) 1,1-Dichloroethene	2.28	96	32160	19.400	ug/l 95
13) Acrolein	2.19	56	16918	46.137	ug/l 95
14) Allyl chloride	2.59	41	54772	18.218	ug/l 98
15) Acrylonitrile	2.94	53	116556	102.280	ug/l 98
16) Acetone	2.32	43	113959	91.051	ug/l 98
17) Carbon Disulfide	2.48	76	74752	16.765	ug/l 99
18) Methyl Acetate	2.62	43	61554	23.662	ug/l 99
19) Methyl tert-butyl Ether	3.00	73	134206	21.284	ug/l 99
20) Methylene Chloride	2.70	84	39915	20.717	ug/l 98
21) trans-1,2-Dichloroethene	2.99	96	34650	18.291	ug/l 97
22) Diisopropyl ether	3.57	45	130540	21.261	ug/l 95
23) Vinyl Acetate	3.53	43	544558	101.105	ug/l 99
24) 1,1-Dichloroethane	3.45	63	74164	21.418	ug/l 98
25) 2-Butanone	4.26	43	171052	97.128	ug/l 96
26) 2,2-Dichloropropane	4.23	77	52780	15.853	ug/l 100
27) cis-1,2-Dichloroethene	4.23	96	43612	19.897	ug/l 98
28) Bromochloromethane	4.55	49	35867	21.451	ug/l 96
29) Tetrahydrofuran	4.64	42	109835	103.978	ug/l 98
30) Chloroform	4.68	83	77403	21.108	ug/l 98
31) Cyclohexane	5.00	56	61063	19.488	ug/l 98
32) 1,1,1-Trichloroethane	4.92	97	70334	21.164	ug/l 99
36) 1,1-Dichloropropene	5.14	75	50975	18.189	ug/l 98
37) Ethyl Acetate	4.38	43	61914	19.809	ug/l 98
38) Carbon Tetrachloride	5.14	117	59431	19.702	ug/l 98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071218\
 Data File : VU025361.D
 Acq On : 13 Jul 2018 00:49
 Operator : MD/SY
 Sample : VU0712WBS03
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 VU0712WBS03

Manual Integrations
 APPROVED

MMDadoda
 7/13/2018 11:44:20 AM

Quant Time: Jul 13 04:50:26 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)
39) Methylcyclohexane	6.42	83	60728	17.372	ug/l	97
40) Benzene	5.39	78	158599	19.637	ug/l	96
41) Methacrylonitrile	4.55	41	36310	20.954	ug/l	98
42) 1,2-Dichloroethane	5.41	62	65499	20.402	ug/l	99
43) Isopropyl Acetate	5.55	43	102216	20.422	ug/l	100
44) Trichloroethene	6.19	130	43449	18.736	ug/l	99
45) 1,2-Dichloropropane	6.44	63	42673	20.173	ug/l	99
46) Dibromomethane	6.56	93	30446	19.777	ug/l	100
47) Bromodichloromethane	6.76	83	57158	19.987	ug/l	99
48) Methyl methacrylate	6.63	41	51280	20.552	ug/l	99
49) 1,4-Dioxane	6.62	88	23717	395.024	ug/l	98
51) 4-Methyl-2-Pentanone	7.46	43	325144	99.949	ug/l	100
52) Toluene	7.64	92	99664	19.396	ug/l	100
53) t-1,3-Dichloropropene	7.88	75	57963	18.448	ug/l	100
54) cis-1,3-Dichloropropene	7.27	75	62287	18.626	ug/l	99
55) 1,1,2-Trichloroethane	8.07	97	42676	19.942	ug/l	99
56) Ethyl methacrylate	8.02	69	65638	19.638	ug/l	100
57) 1,3-Dichloropropane	8.25	76	71841	20.222	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.13	63	120283	80.975	ug/l	98
59) 2-Hexanone	8.36	43	249010	94.368	ug/l	99
60) Dibromochloromethane	8.48	129	45222	19.567	ug/l	99
61) 1,2-Dibromoethane	8.59	107	45577	19.905	ug/l	100
64) Tetrachloroethene	8.23	164	41689	19.708	ug/l	98
65) Chlorobenzene	9.12	112	114678	19.782	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.21	131	43784	21.114	ug/l	99
67) Ethyl Benzene	9.25	91	191458	19.372	ug/l	99
68) m/p-Xylenes	9.38	106	148862	38.960	ug/l	97
69) o-Xylene	9.78	106	76339	19.956	ug/l	98
70) Styrene	9.80	104	117534	19.343	ug/l	99
71) Bromoform	9.96	173	33060	19.570	ug/l	# 99
73) Isopropylbenzene	10.17	105	203080	20.229	ug/l	99
74) N-amyl acetate	10.01	43	84563	21.326	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.46	83	68374	20.818	ug/l	97
76) 1,2,3-Trichloropropane	10.50	75	61567m	23.184	ug/l	
77) Bromobenzene	10.45	156	52690	20.516	ug/l	99
78) n-propylbenzene	10.59	91	219162	19.674	ug/l	100
79) 2-Chlorotoluene	10.66	91	138760	21.776	ug/l	99
80) 1,3,5-Trimethylbenzene	10.77	105	169339	20.047	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.51	75	17244m	16.474	ug/l	
82) 4-Chlorotoluene	10.78	91	156097	19.789	ug/l	98
83) tert-Butylbenzene	11.10	119	171991	20.149	ug/l	98
84) 1,2,4-Trimethylbenzene	11.15	105	169542	19.584	ug/l	98
85) sec-Butylbenzene	11.33	105	201745	20.073	ug/l	100
86) p-Isopropyltoluene	11.48	119	172378	19.370	ug/l	100
87) 1,3-Dichlorobenzene	11.42	146	90748	19.334	ug/l	99
88) 1,4-Dichlorobenzene	11.51	146	89607	20.451	ug/l	97
89) n-Butylbenzene	11.89	91	130668	17.861	ug/l	100
90) Hexachloroethane	12.15	117	28014	18.590	ug/l	100
91) 1,2-Dichlorobenzene	11.88	146	95795	20.209	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.66	75	15649	19.645	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071218\
Data File : VU025361.D
Acq On : 13 Jul 2018 00:49
Operator : MD/SY
Sample : VU0712WBS03
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBS03

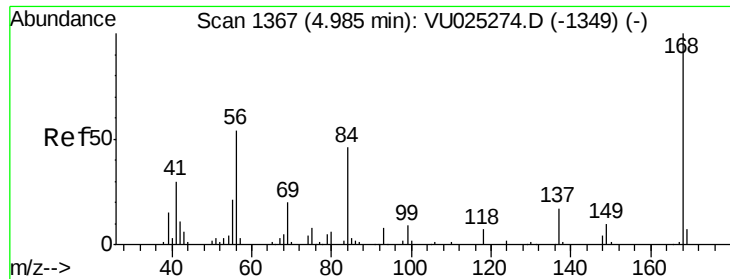
Manual Integrations
APPROVED

MMDadoda
7/13/2018 11:44:20 AM

Quant Time: Jul 13 04:50:26 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)
93) 1,2,4-Trichlorobenzene	13.51	180	52248	18.663	ug/l	98
94) Hexachlorobutadiene	13.70	225	30751	18.139	ug/l	98
95) Naphthalene	13.74	128	166702	18.859	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	56201	19.086	ug/l	99

(#) = 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: VU025361.D

Acq: 13 Jul 2018 00:49

Instrument :

MSVOA_U

ClientSampleId :

VU0712WBS03

Tot Ion:168 Resp: 163541

Ion Ratio Lower Upper

168 100

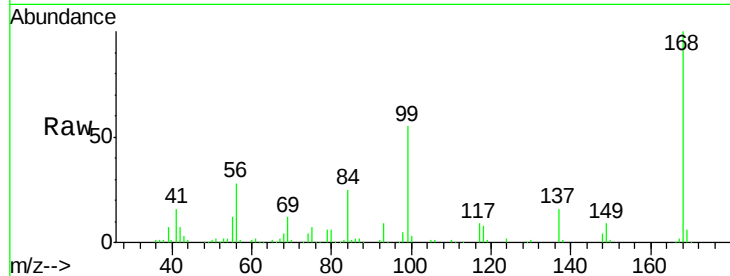
99 54.5 42.8 64.2

Manual Integrations

APPROVED

MMDadoda

7/13/2018 11:44:20 AM



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

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

4.99

80000

60000

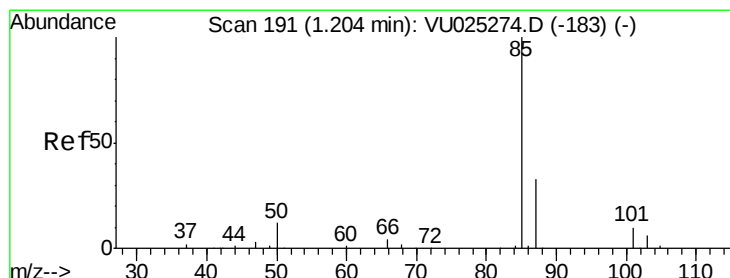
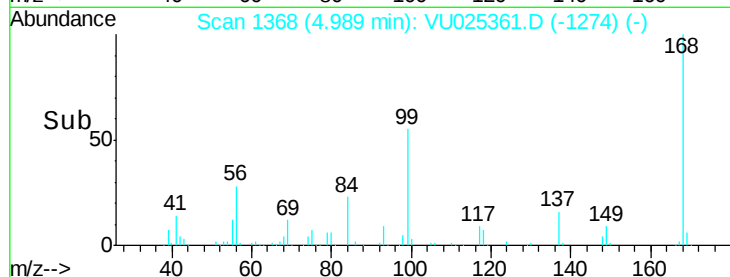
40000

20000

0

4.90 4.95 5.00 5.05

Time-->



#2

Dichlorodifluoromethane

Concen: 17.659 ug/l

RT: 1.20 min Scan# 191

Delta R.T. 0.00 min

Lab File: VU025361.D

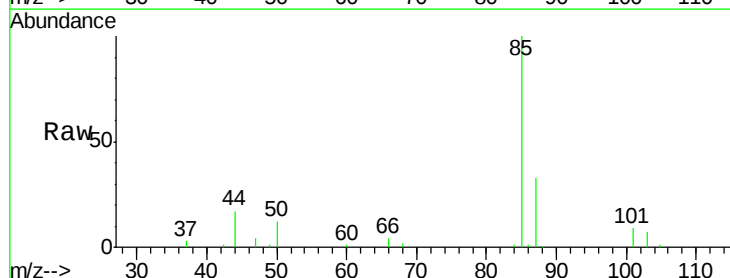
Acq: 13 Jul 2018 00:49

Tgt Ion: 85 Resp: 29888

Ion Ratio Lower Upper

85 100

87 33.4 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) (-)

1.20

30000

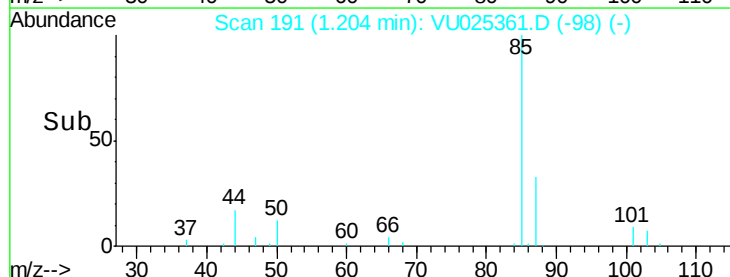
20000

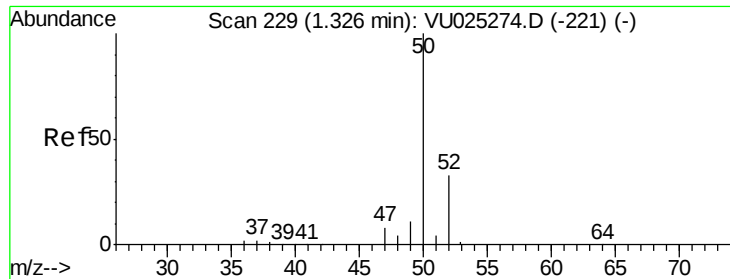
10000

0

1.15 1.20 1.25

Time-->





#3

Chloromethane

Concen: 19.068 ug/l

RT: 1.33 min Scan# 229

Delta R.T. 0.00 min

Lab File: VU025361.D

Acq: 13 Jul 2018 00:49

Tot Ion: 50 Resp: 31561

Ion Ratio Lower Upper

50 100

52 32.0 26.5 39.7

Instrument :

MSVOA_U

ClientSampleId :

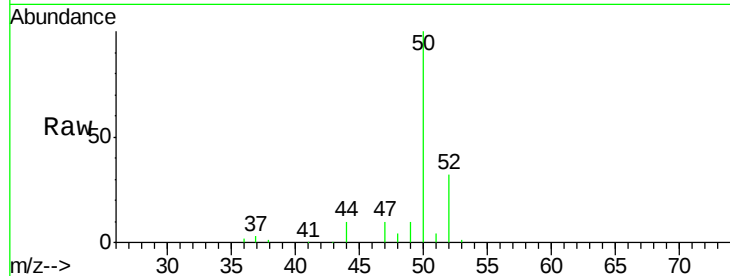
VU0712WBS03

Manual Integrations

APPROVED

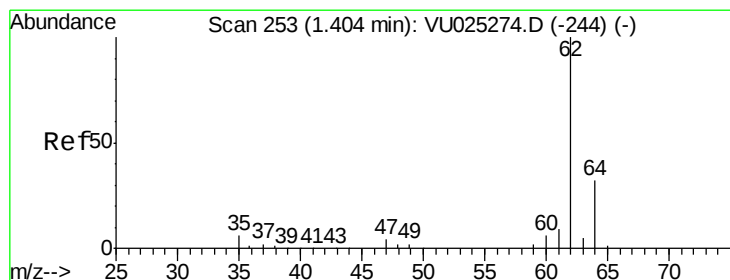
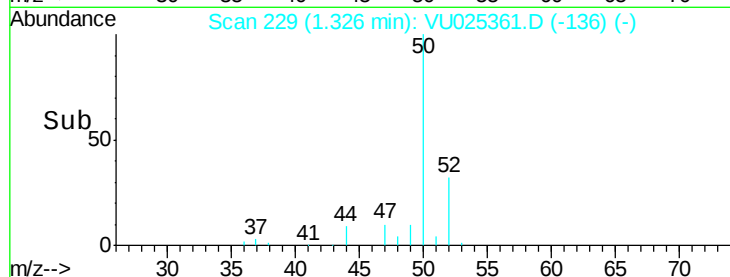
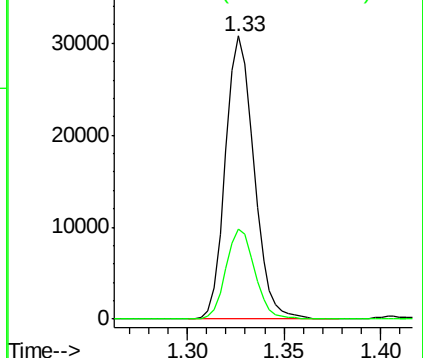
MMDadoda

7/13/2018 11:44:20 AM



Abundance Ion 49.90 (49.60 to 50.60): VU0

Ion 51.90 (51.60 to 52.60): VU0



#4

Vinyl Chloride

Concen: 18.251 ug/l

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU025361.D

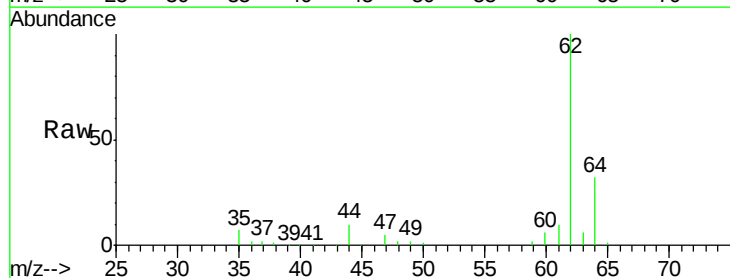
Acq: 13 Jul 2018 00:49

Tgt Ion: 62 Resp: 33945

Ion Ratio Lower Upper

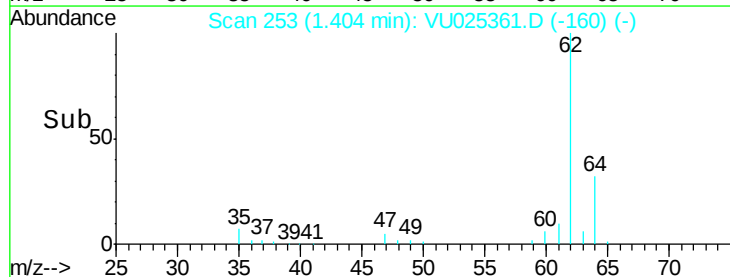
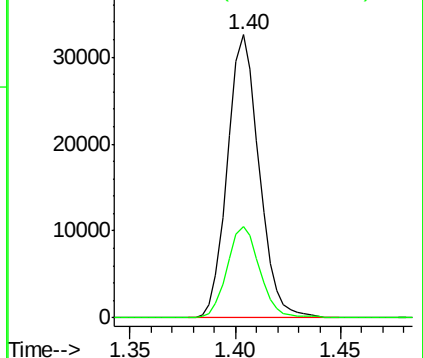
62 100

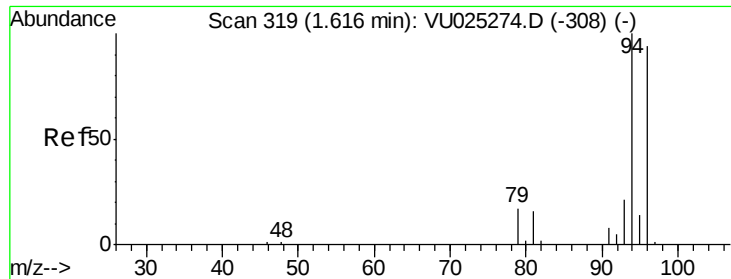
64 32.4 25.4 38.0



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0





#5

Bromomethane

Concen: 21.322 ug/l

RT: 1.62 min Scan# 321

Delta R.T. 0.01 min

Lab File: VU025361.D

Acq: 13 Jul 2018 00:49

Instrument :

MSVOA_U

ClientSampleId :

VU0712WBS03

Tot Ion: 94 Resp: 23154

Ion Ratio Lower Upper

94 100

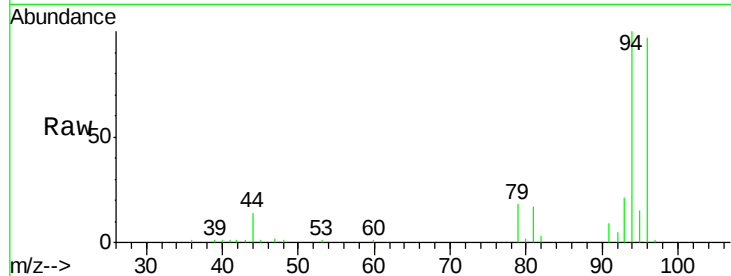
96 97.1 75.0 112.4

Manual Integrations

APPROVED

MMDadoda

7/13/2018 11:44:20 AM



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.62

20000

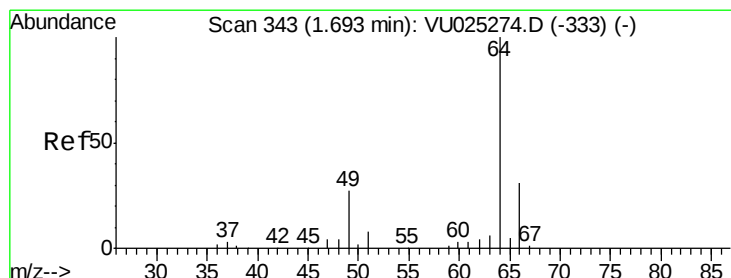
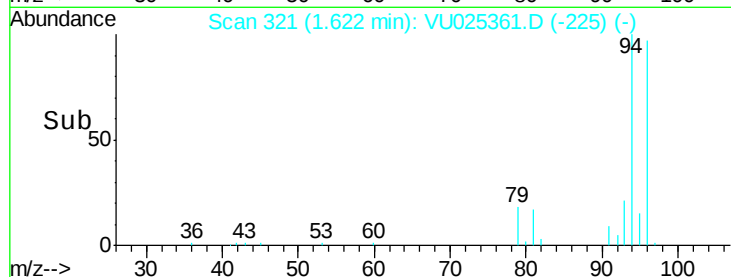
15000

10000

5000

0

Time-->



#6

Chloroethane

Concen: 20.168 ug/l

RT: 1.70 min Scan# 344

Delta R.T. 0.00 min

Lab File: VU025361.D

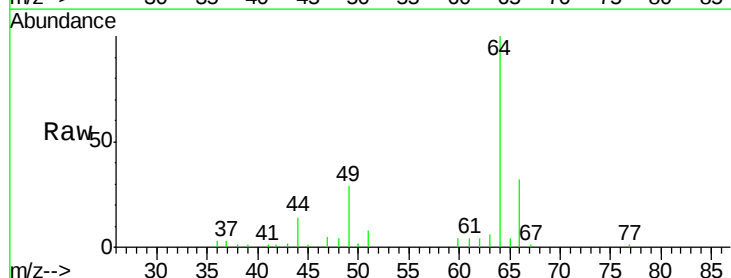
Acq: 13 Jul 2018 00:49

Tgt Ion: 64 Resp: 23648

Ion Ratio Lower Upper

64 100

66 32.4 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

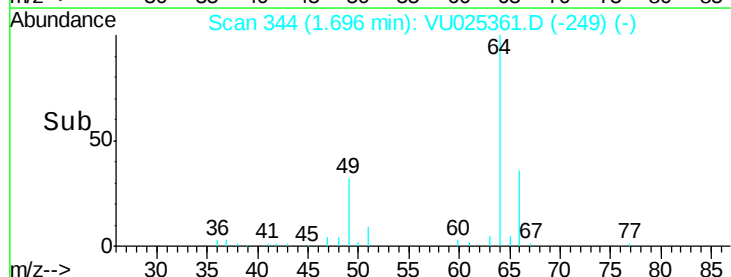
15000

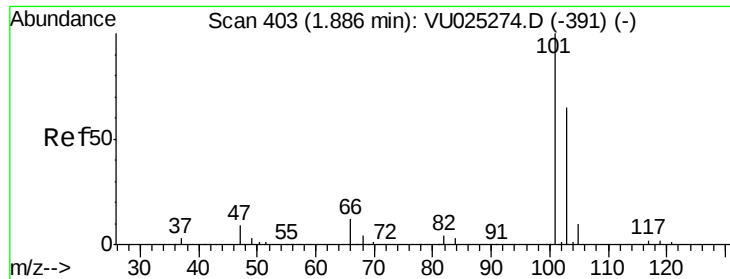
10000

5000

0

Time-->





#7

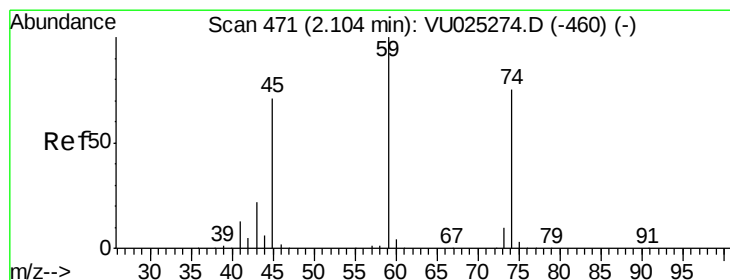
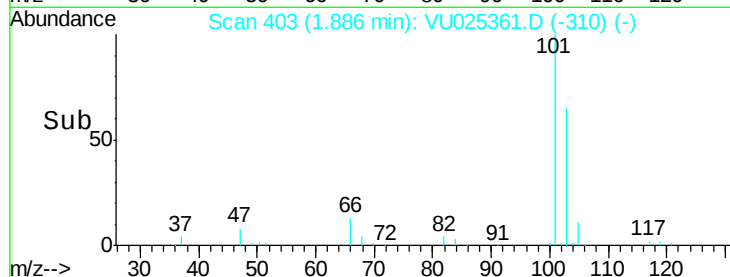
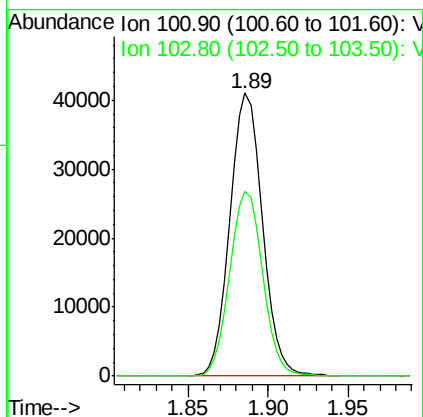
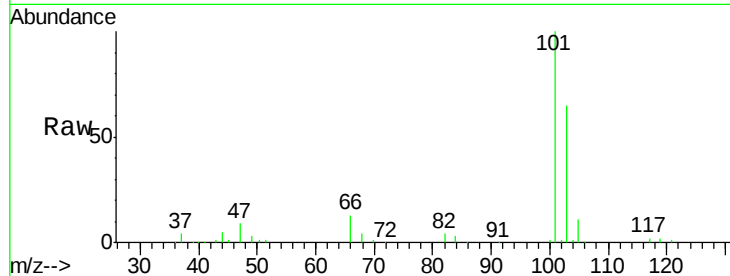
Trichlorofluoromethane
Concen: 19.387 ug/l
RT: 1.89 min Scan# 403
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBS03

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.5	52.2	78.2

Manual Integrations
APPROVED

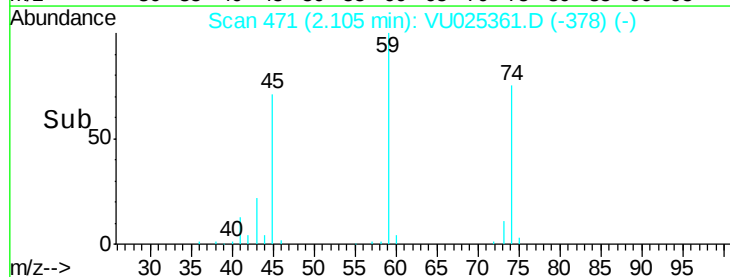
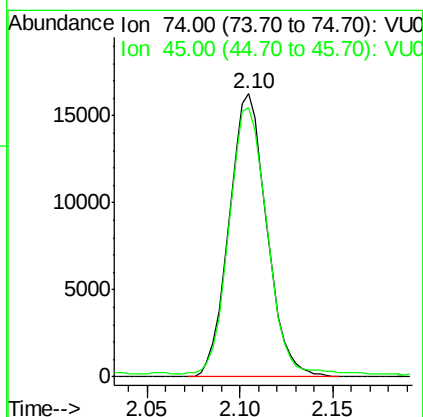
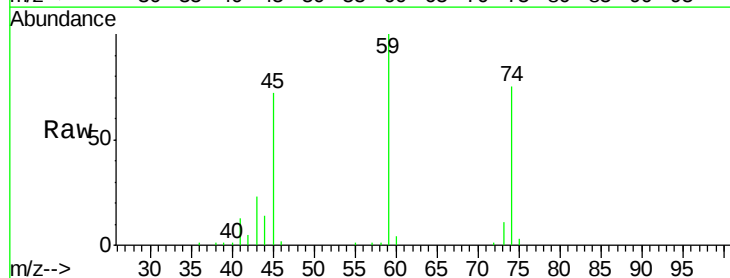
MMDadoda
7/13/2018 11:44:20 AM

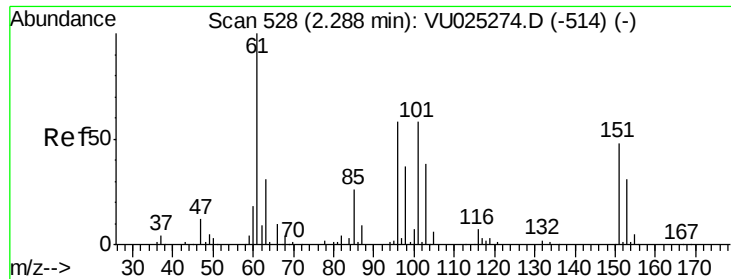


#8

Diethyl Ether
Concen: 20.860 ug/l
RT: 2.10 min Scan# 471
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Tgt Ion	Ratio	Lower	Upper
74	100		
45	95.6	48.3	144.9





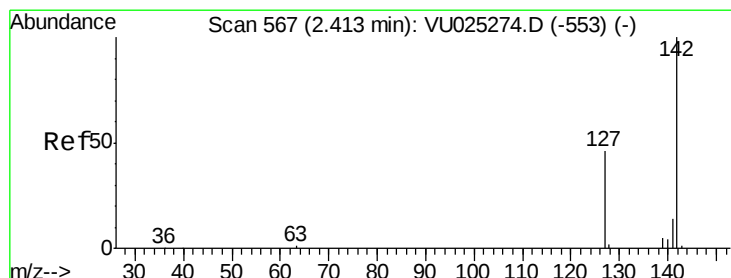
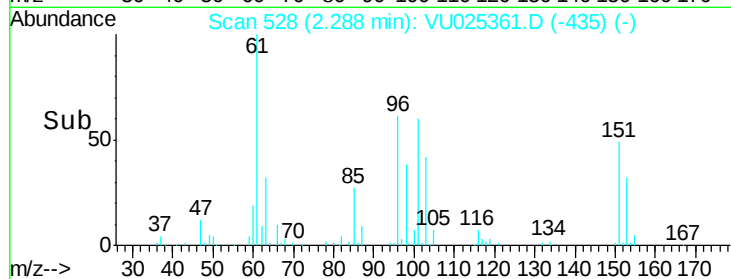
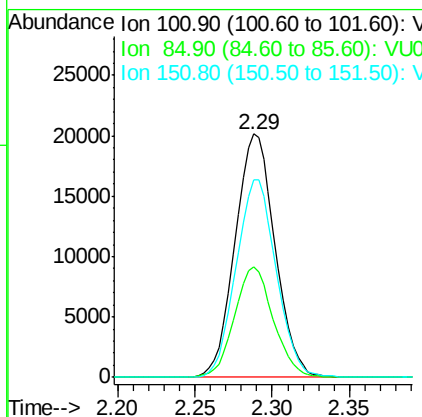
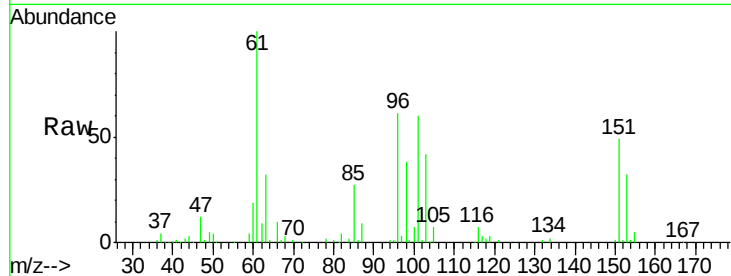
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.951 ug/l
RT: 2.29 min Scan# 528
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBS03

Tot Ion	Ratio	Resp	Lower	Upper
101	100	36138		
85	44.1	36.0	54.0	
151	81.7	65.6	98.4	

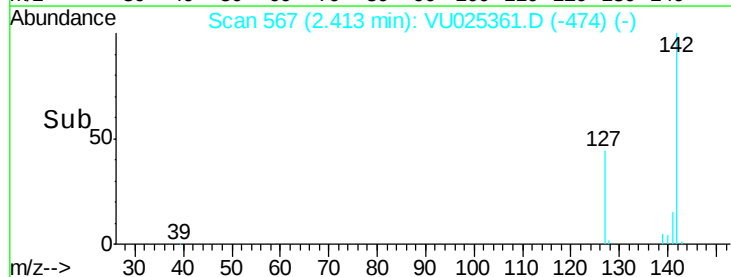
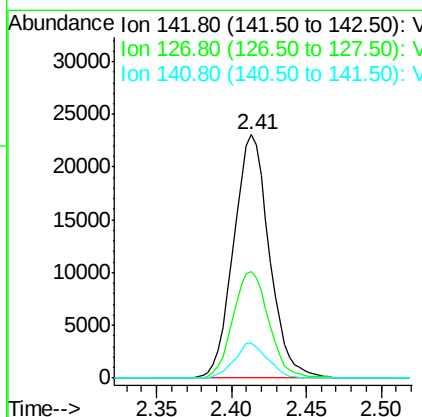
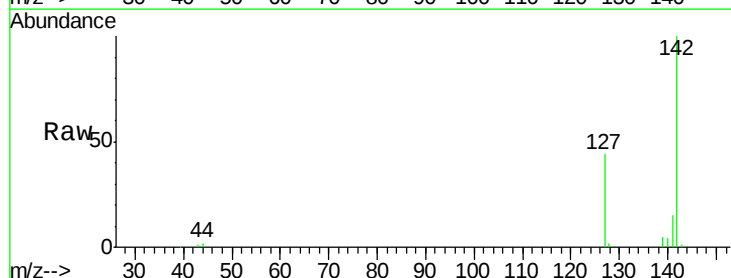
Manual Integrations
APPROVED

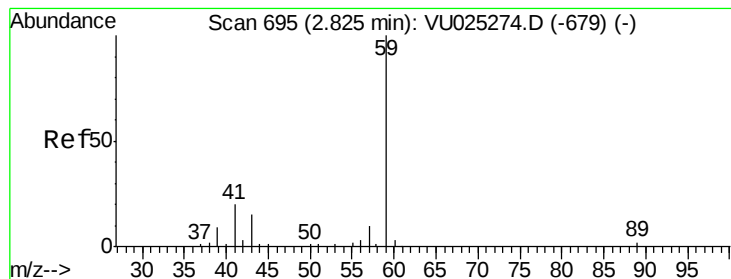
MMDadoda
7/13/2018 11:44:20 AM



#10
Methyl Iodide
Concen: 23.668 ug/l
RT: 2.41 min Scan# 567
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	38259		
127	44.1	36.5	54.7	
141	13.5	11.4	17.2	





#11

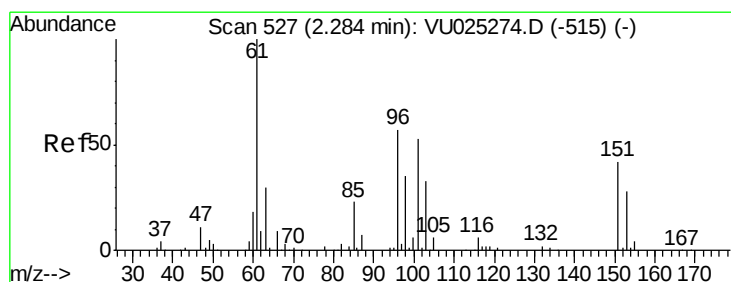
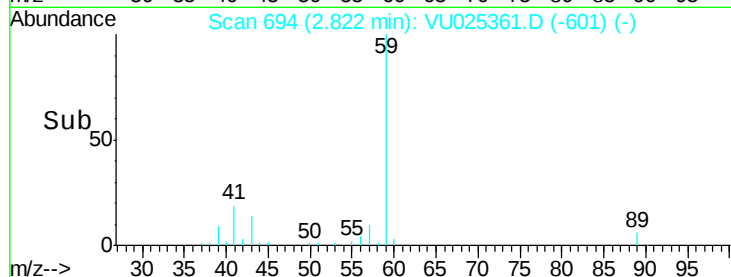
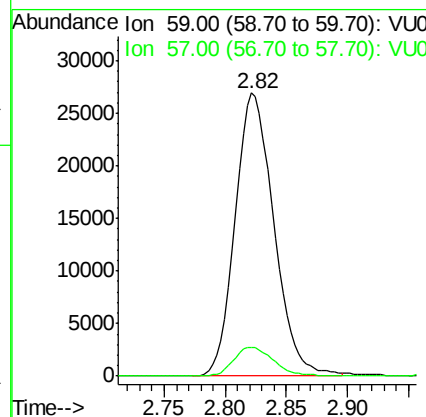
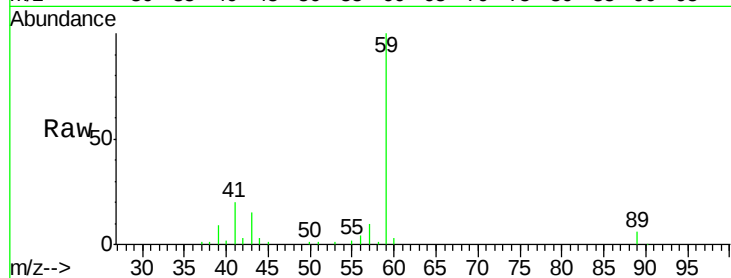
Tert butyl alcohol
 Concen: 107.261 ug/l
 RT: 2.82 min Scan# 694
 Delta R.T. -0.00 min
 Lab File: VU025361.D
 Acq: 13 Jul 2018 00:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0712WBS03

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.5	8.2	12.2

Manual Integrations
 APPROVED

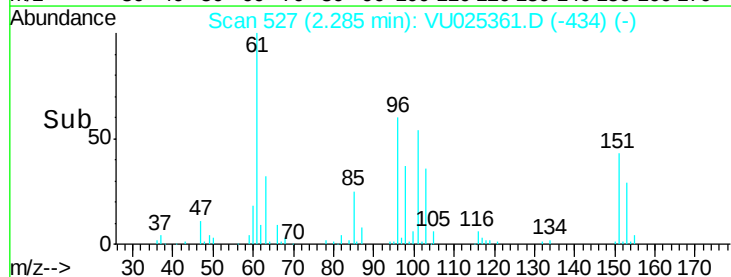
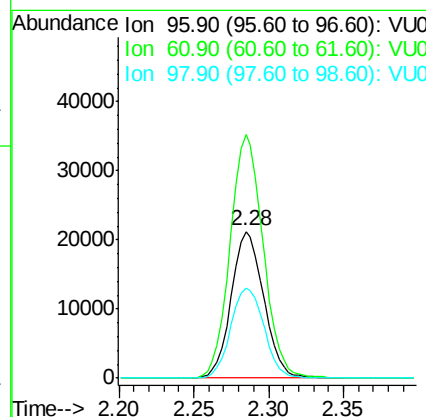
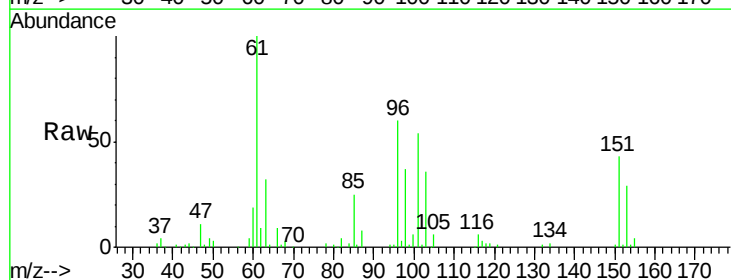
MMDadoda
 7/13/2018 11:44:20 AM

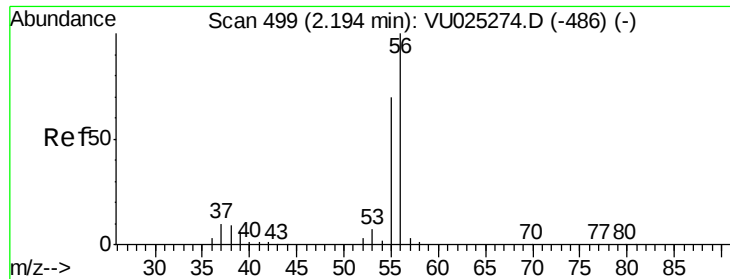


#12

1,1-Dichloroethene
 Concen: 19.400 ug/l
 RT: 2.28 min Scan# 527
 Delta R.T. 0.00 min
 Lab File: VU025361.D
 Acq: 13 Jul 2018 00:49

Tgt Ion	Ratio	Lower	Upper
96	100		
61	166.2	140.2	210.4
98	61.6	49.3	73.9





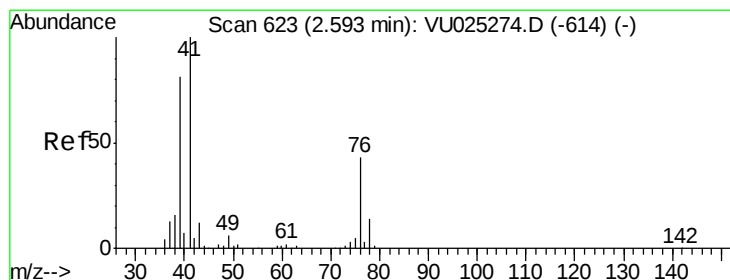
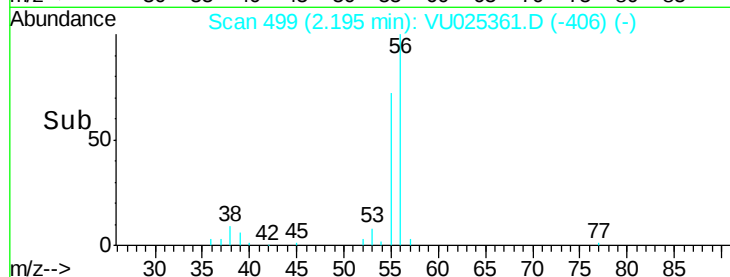
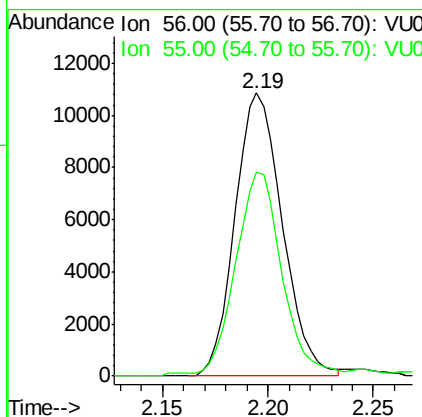
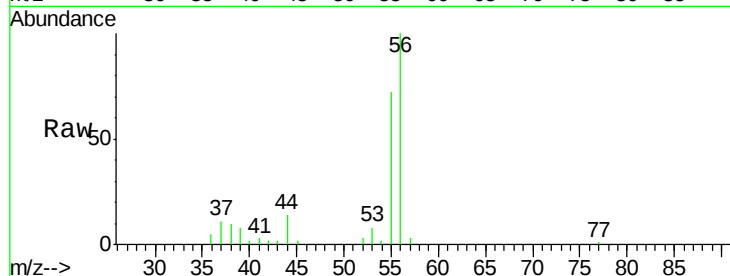
#13
Acrolein
Concen: 46.137 ug/l
RT: 2.19 min Scan# 499
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBS03

Tot Ion	56	55	Resp	16918	Lower	Upper
Ion Ratio	100	67.7				
					57.2	85.8

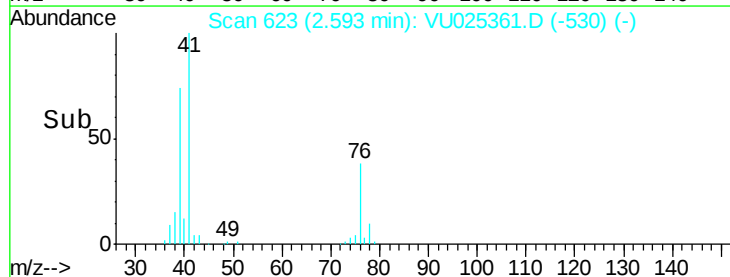
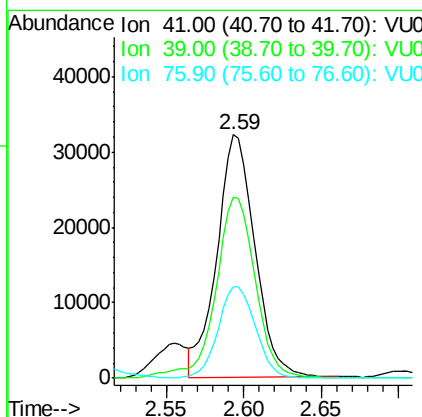
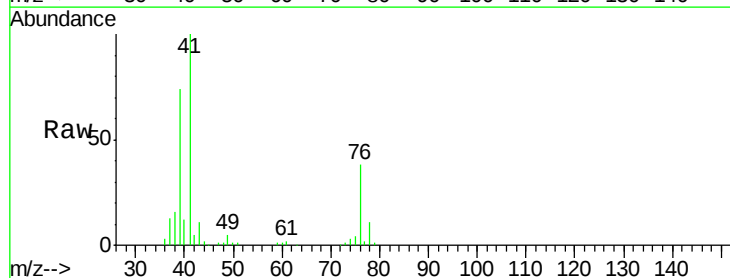
Manual Integrations
APPROVED

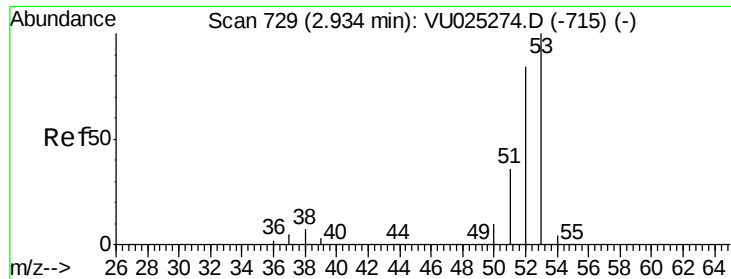
MMDadoda
7/13/2018 11:44:20 AM



#14
Allyl chloride
Concen: 18.218 ug/l
RT: 2.59 min Scan# 623
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Tgt Ion	41	39	76	Resp	54772	Lower	Upper
Ion Ratio	100	78.1	37.1				
						60.6	91.0
						30.5	45.7





#15

Acrylonitrile

Concen: 102.280 ug/l

RT: 2.94 min Scan# 730

Delta R.T. 0.00 min

Lab File: VU025361.D

Acq: 13 Jul 2018 00:49

Instrument :

MSVOA_U

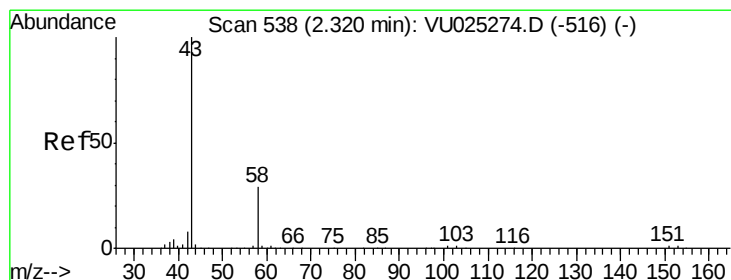
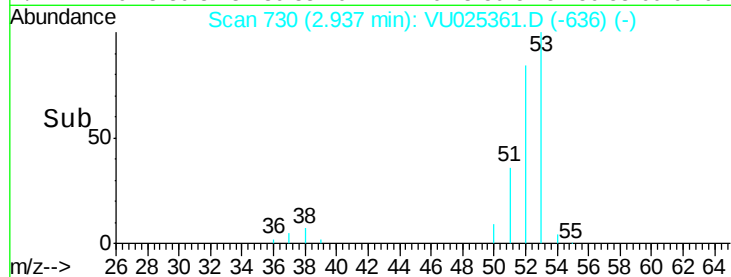
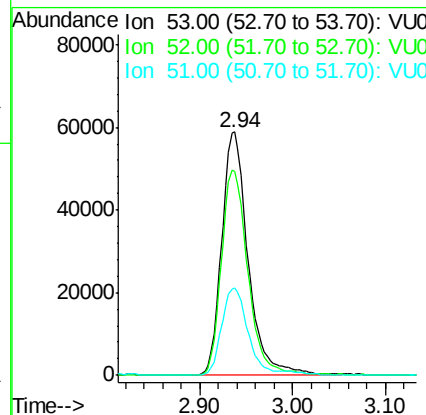
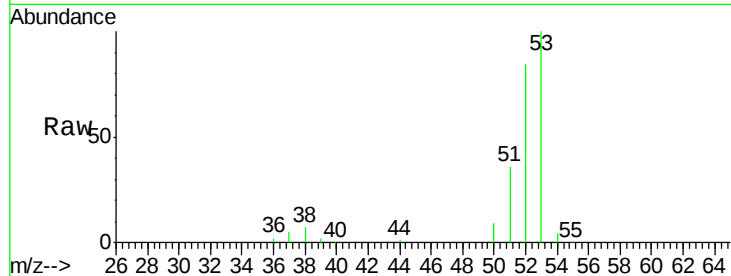
ClientSampleId :

VU0712WBS03

Tot Ion:	53	Resp:	116556
Ion Ratio		Lower	Upper
53	100		
52	84.8	66.6	99.8
51	35.4	29.4	44.2

Manual Integrations
APPROVED

MMDadoda
7/13/2018 11:44:20 AM



#16

Acetone

Concen: 91.051 ug/l

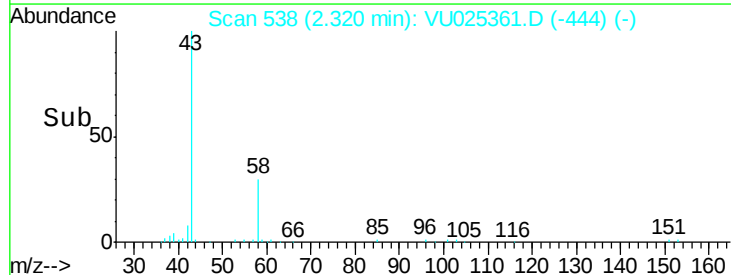
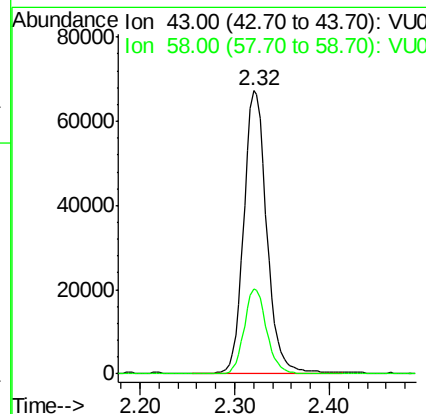
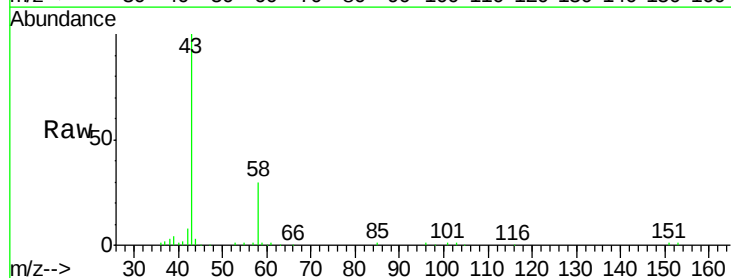
RT: 2.32 min Scan# 538

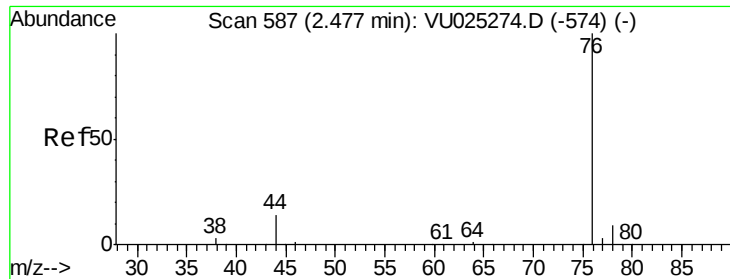
Delta R.T. 0.00 min

Lab File: VU025361.D

Acq: 13 Jul 2018 00:49

Tgt Ion:	43	Resp:	113959
Ion Ratio		Lower	Upper
43	100		
58	30.2	23.1	34.7





#17

Carbon Disulfide

Concen: 16.765 ug/l

RT: 2.48 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU025361.D

Acq: 13 Jul 2018 00:49

Instrument :

MSVOA_U

ClientSampleId :

VU0712WBS03

Tot Ion: 76 Resp: 74752

Ion Ratio Lower Upper

76 100

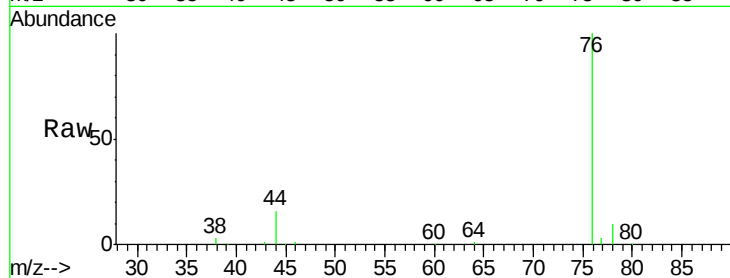
78 9.7 7.4 11.2

Manual Integrations

APPROVED

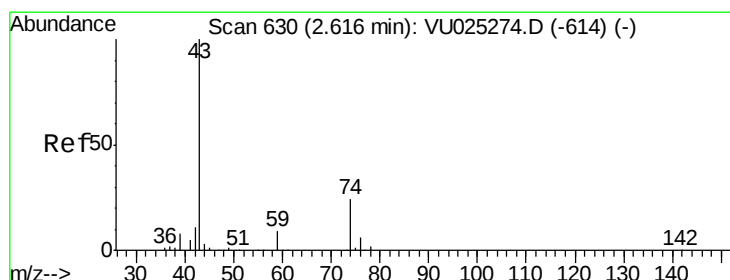
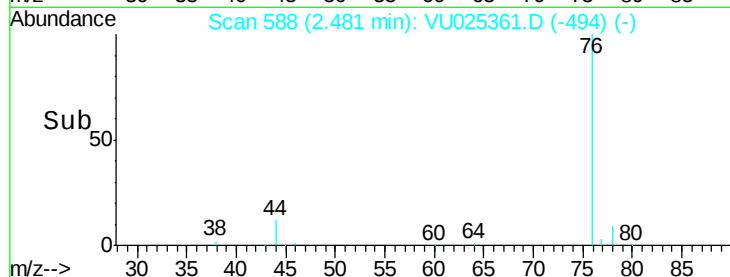
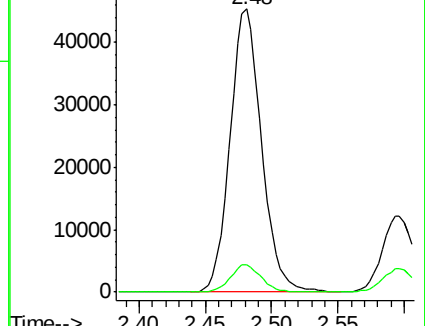
MMDadoda

7/13/2018 11:44:20 AM



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#18

Methyl Acetate

Concen: 23.662 ug/l

RT: 2.62 min Scan# 630

Delta R.T. 0.00 min

Lab File: VU025361.D

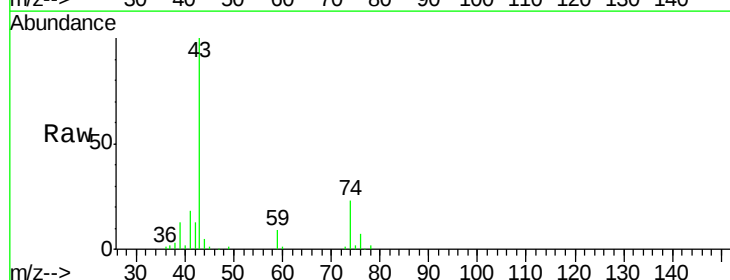
Acq: 13 Jul 2018 00:49

Tgt Ion: 43 Resp: 61554

Ion Ratio Lower Upper

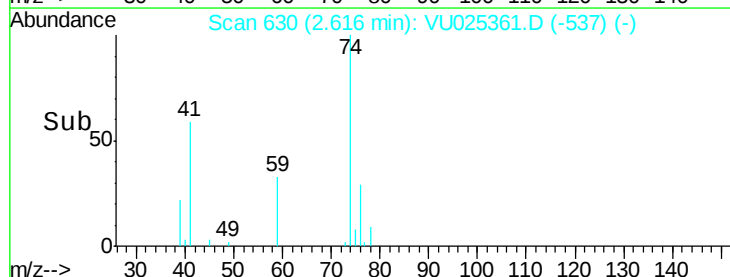
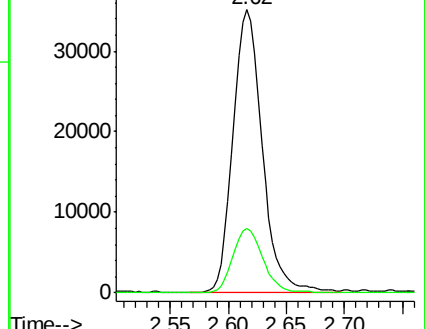
43 100

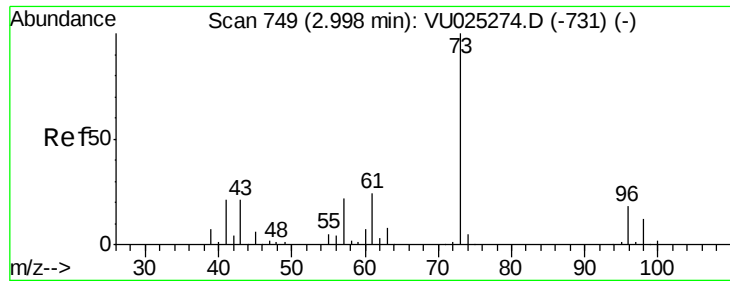
74 23.5 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0





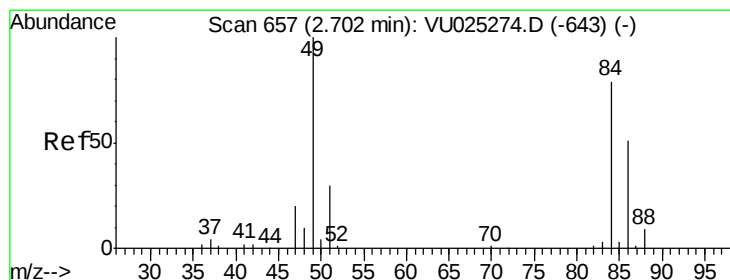
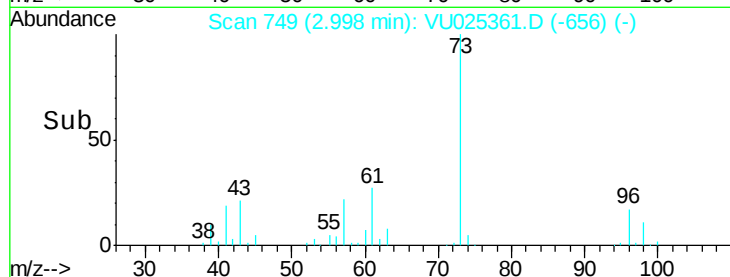
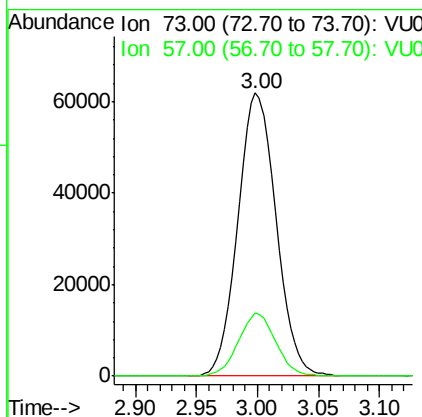
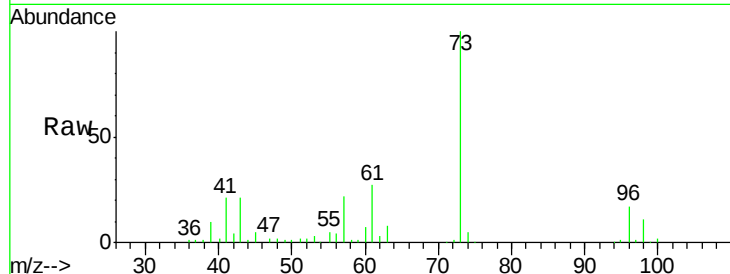
#19
Methvl tert-butvl Ether
Concen: 21.284 ug/l
RT: 3.00 min Scan# 749
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBS03

Tot Ion: 73 Resp: 134206
Ion Ratio Lower Upper
73 100
57 22.1 17.4 26.2

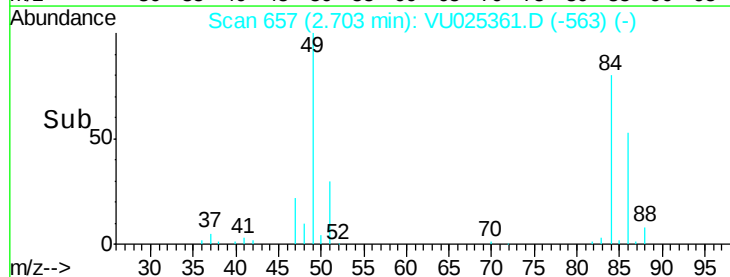
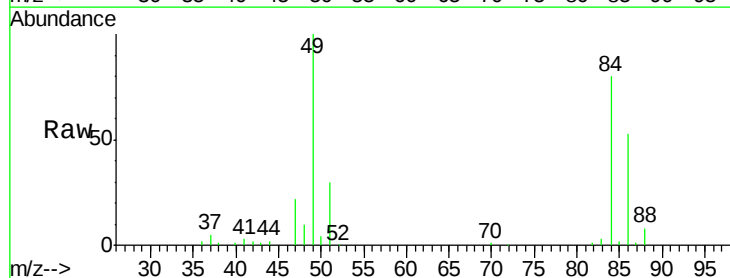
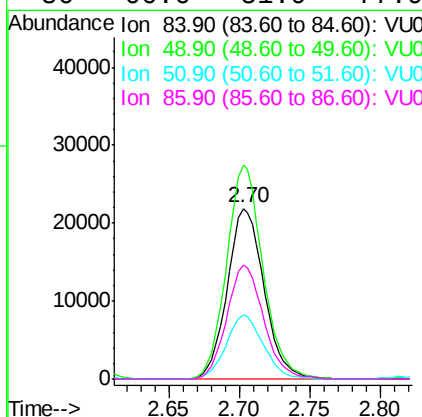
Manual Integrations
APPROVED

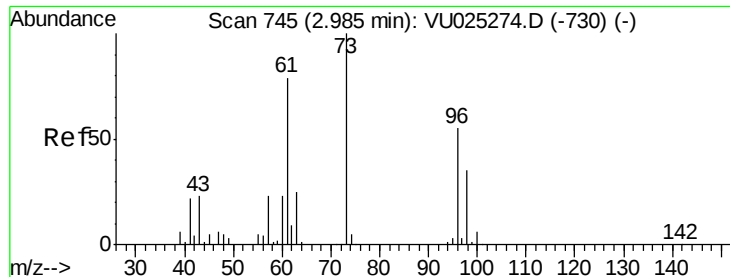
MMDadoda
7/13/2018 11:44:20 AM



#20
Methylene Chloride
Concen: 20.717 ug/l
RT: 2.70 min Scan# 657
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Tgt Ion: 84 Resp: 39915
Ion Ratio Lower Upper
84 100
49 125.3 101.8 152.6
51 37.5 30.8 46.2
86 66.6 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 18.291 ug/l

RT: 2.99 min Scan# 745

Delta R.T. 0.00 min

Lab File: VU025361.D

Acq: 13 Jul 2018 00:49

Instrument :

MSVOA_U

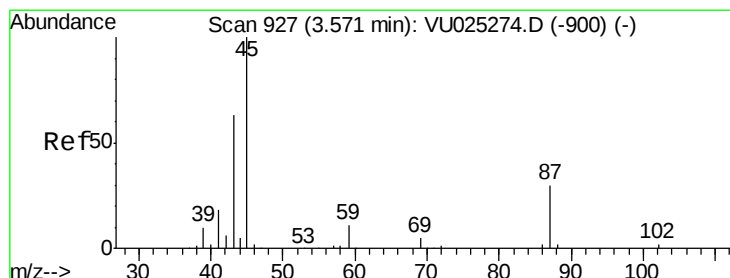
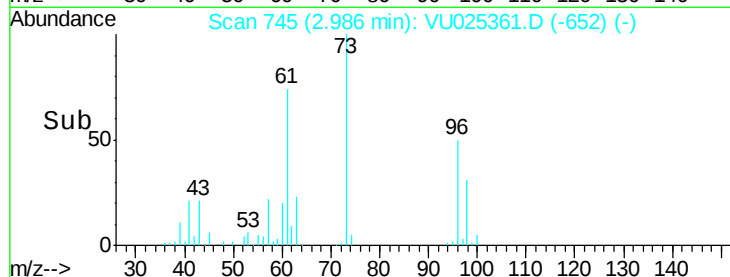
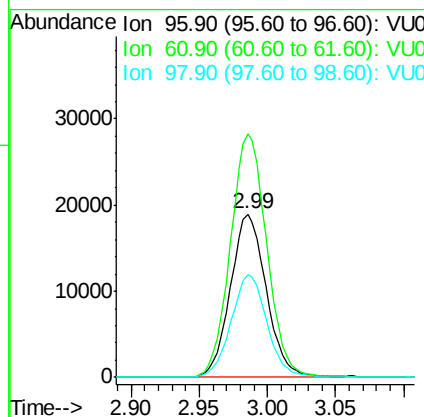
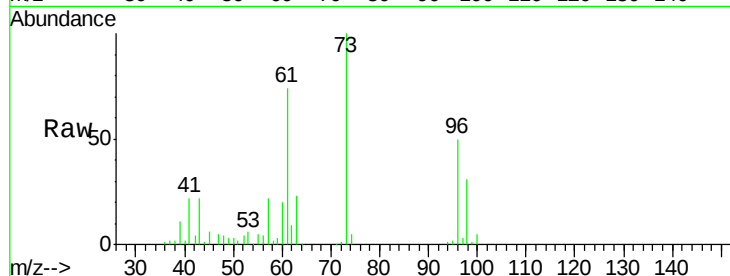
ClientSampleId :

VU0712WBS03

Tot Ion:	96	Resp:	34650
Ion	Ratio	Lower	Upper
96	100		
61	149.1	114.5	171.7
98	62.9	50.5	75.7

Manual Integrations
APPROVED

MMDadoda
7/13/2018 11:44:20 AM



#22

Diisopropyl ether

Concen: 21.261 ug/l

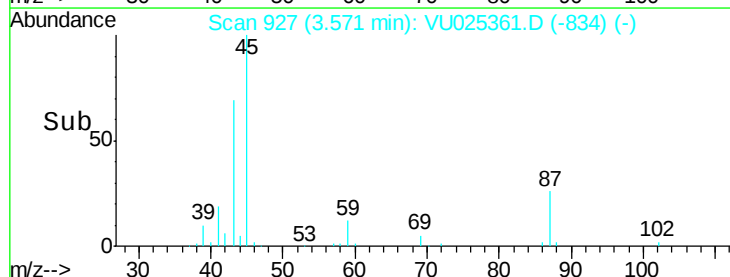
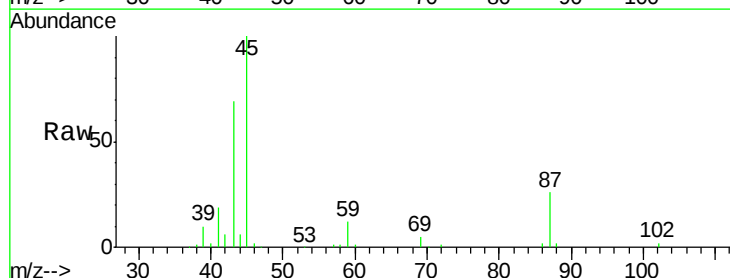
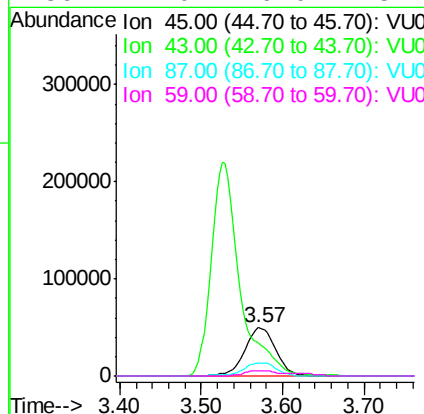
RT: 3.57 min Scan# 927

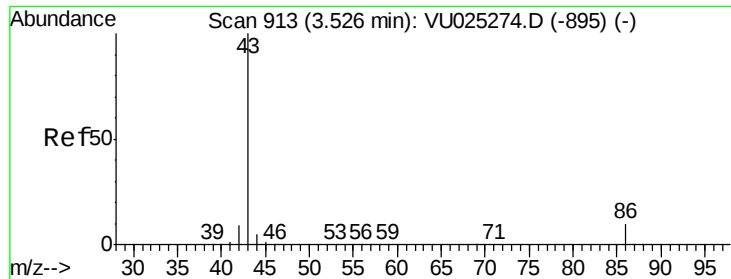
Delta R.T. 0.00 min

Lab File: VU025361.D

Acq: 13 Jul 2018 00:49

Tgt Ion:	45	Resp:	130540
Ion	Ratio	Lower	Upper
45	100		
43	67.8	50.9	76.3
87	26.5	23.8	35.8
59	12.0	9.0	13.4





#23

Vinyl Acetate

Concen: 101.105 ug/l

RT: 3.53 min Scan# 913

Delta R.T. 0.00 min

Lab File: VU025361.D

Acq: 13 Jul 2018 00:49

Instrument :

MSVOA_U

ClientSampleId :

VU0712WBS03

Tot Ion: 43 Resp: 544558

Ion Ratio Lower Upper

43 100

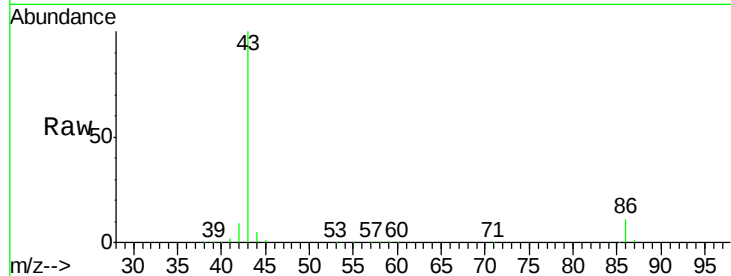
86 10.6 8.2 12.2

Manual Integrations

APPROVED

MMDadoda

7/13/2018 11:44:20 AM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

250000

200000

150000

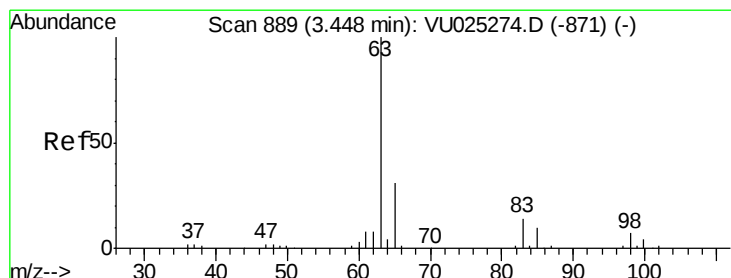
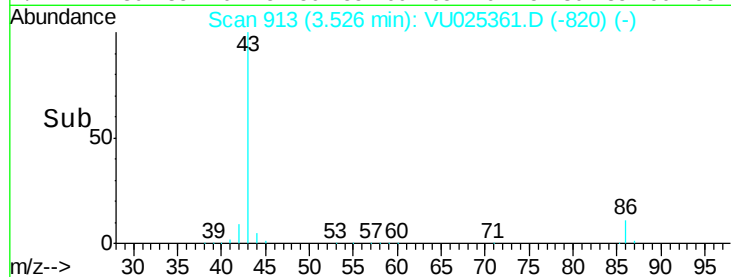
100000

50000

0

3.40 3.50 3.60 3.70

Time-->



#24

1,1-Dichloroethane

Concen: 21.418 ug/l

RT: 3.45 min Scan# 889

Delta R.T. 0.00 min

Lab File: VU025361.D

Acq: 13 Jul 2018 00:49

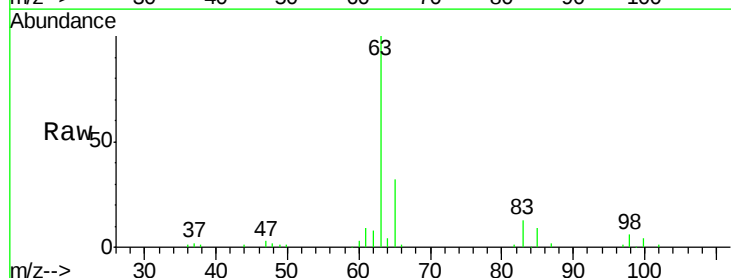
Tgt Ion: 63 Resp: 74164

Ion Ratio Lower Upper

63 100

98 5.9 3.4 10.1

100 3.8 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

Ion 99.90 (99.60 to 100.60): VU0

40000

30000

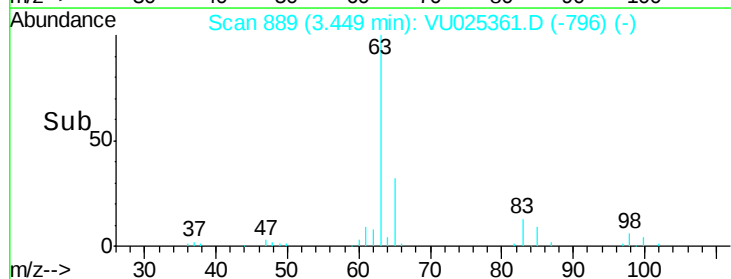
20000

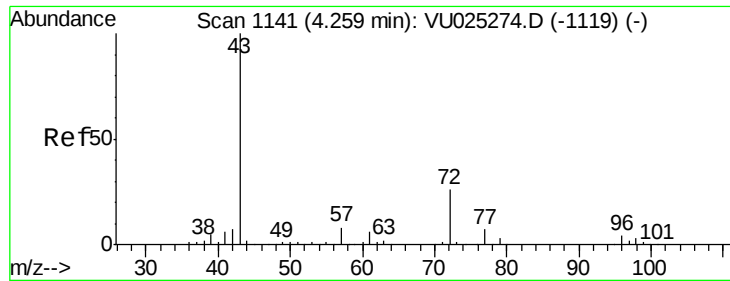
10000

0

3.35 3.40 3.45 3.50 3.55

Time-->





#25

2-Butanone

Concen: 97.128 ug/l

RT: 4.26 min Scan# 1141

Delta R.T. 0.00 min

Lab File: VU025361.D

Acq: 13 Jul 2018 00:49

Instrument :

MSVOA_U

ClientSampleId :

VU0712WBS03

Tot Ion: 43 Resp: 171052

Ion Ratio Lower Upper

43 100

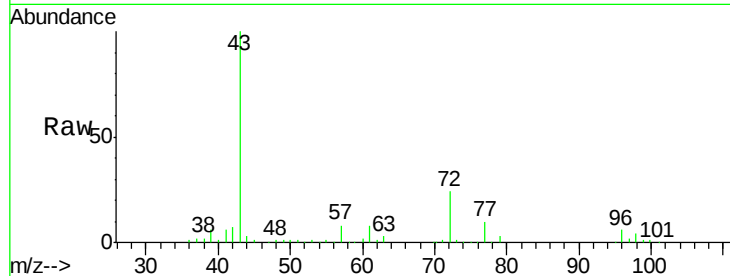
72 24.4 21.0 31.4

Manual Integrations

APPROVED

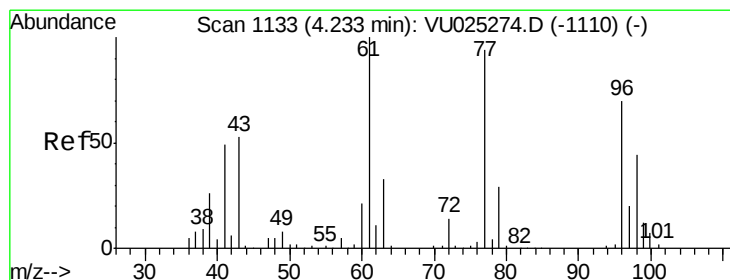
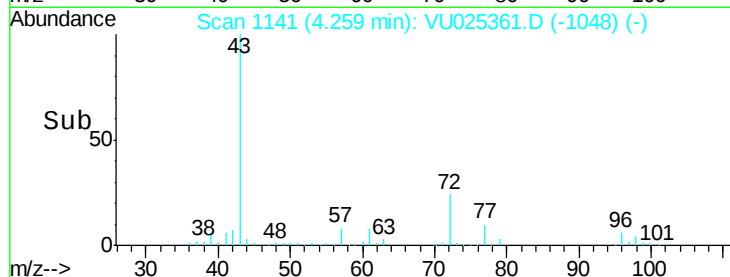
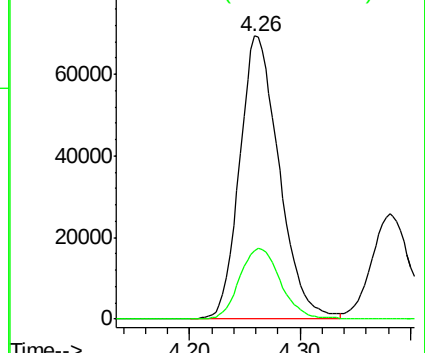
MMDadoda

7/13/2018 11:44:20 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: 15.853 ug/l

RT: 4.23 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VU025361.D

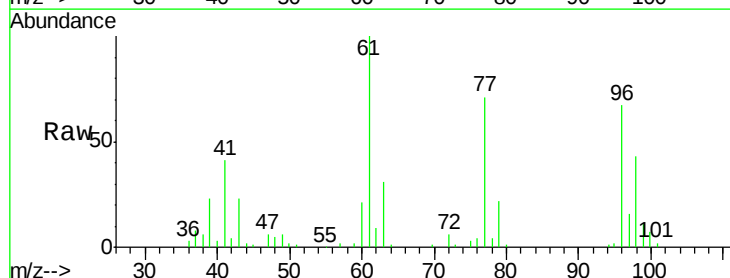
Acq: 13 Jul 2018 00:49

Tgt Ion: 77 Resp: 52780

Ion Ratio Lower Upper

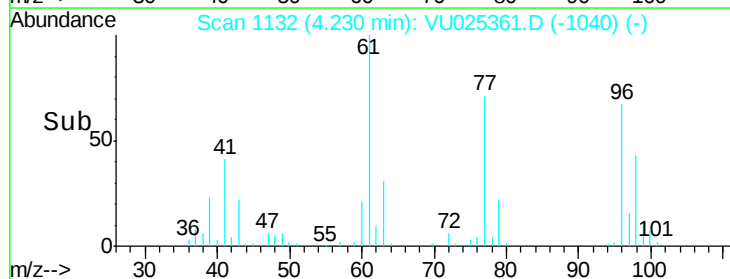
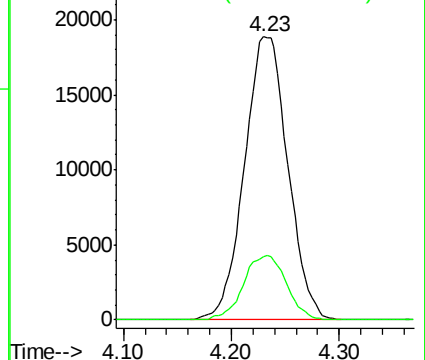
77 100

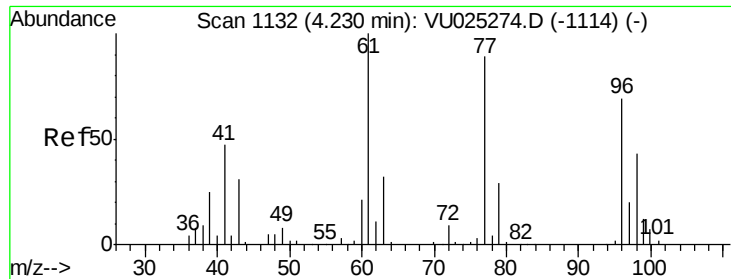
97 22.4 11.2 33.5



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: 19.897 ug/l

RT: 4.23 min Scan# 1132

Delta R.T. 0.00 min

Lab File: VU025361.D

Acq: 13 Jul 2018 00:49

Instrument :

MSVOA_U

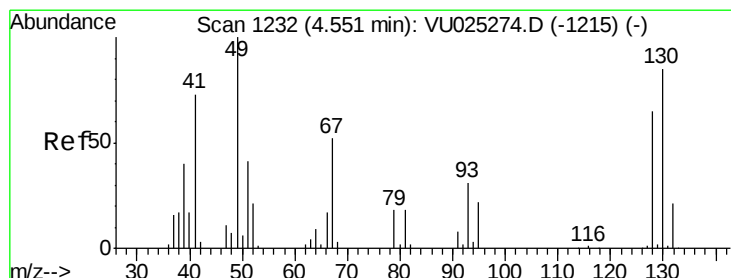
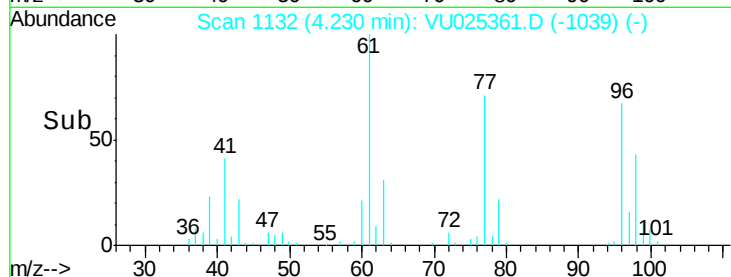
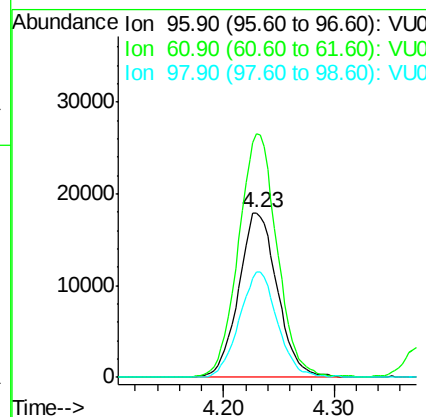
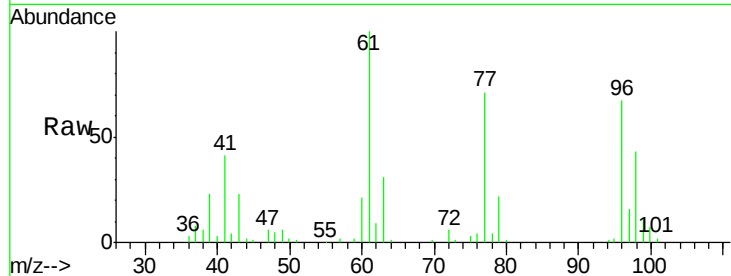
ClientSampleId :

VU0712WBS03

Tot Ion:	96	Resp:	43612
Ion	Ratio	Lower	Upper
96	100		
61	147.2	0.0	299.8
98	62.8	0.0	128.6

Manual Integrations
APPROVED

MMDadoda
7/13/2018 11:44:20 AM



#28

Bromochloromethane

Concen: 21.451 ug/l

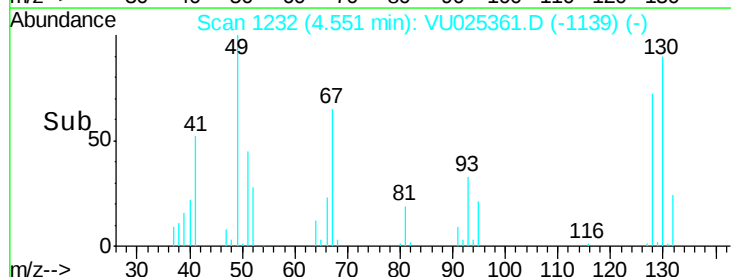
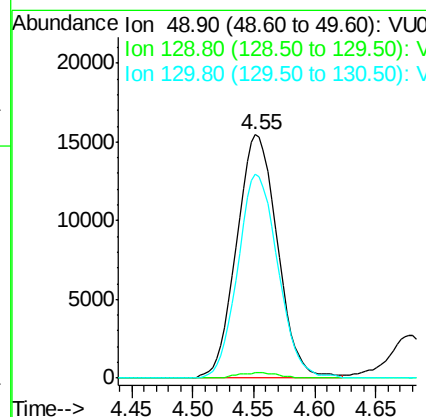
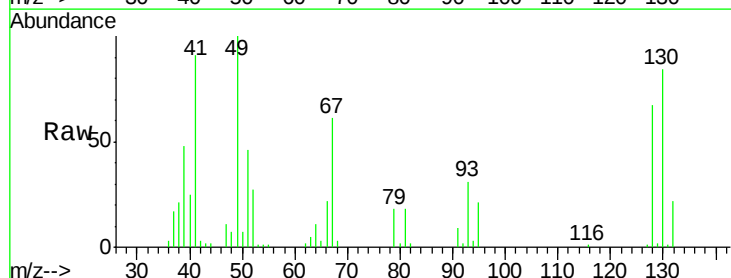
RT: 4.55 min Scan# 1232

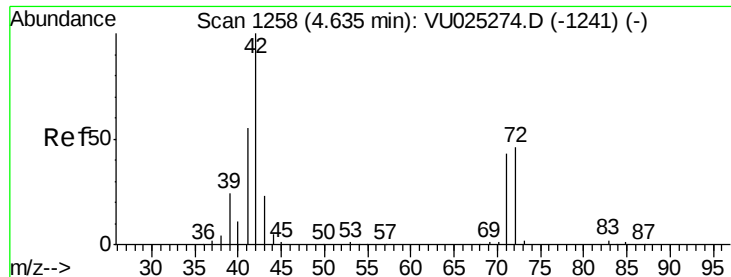
Delta R.T. 0.00 min

Lab File: VU025361.D

Acq: 13 Jul 2018 00:49

Tgt Ion:	49	Resp:	35867
Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.6
130	82.2	68.6	102.8





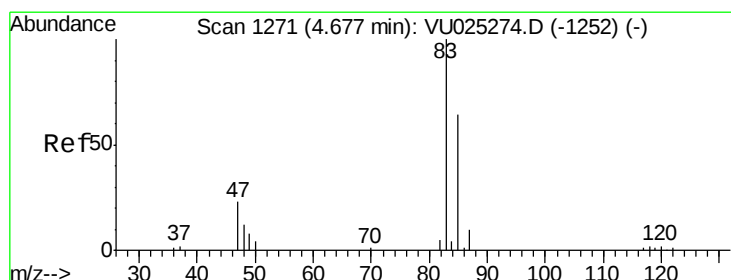
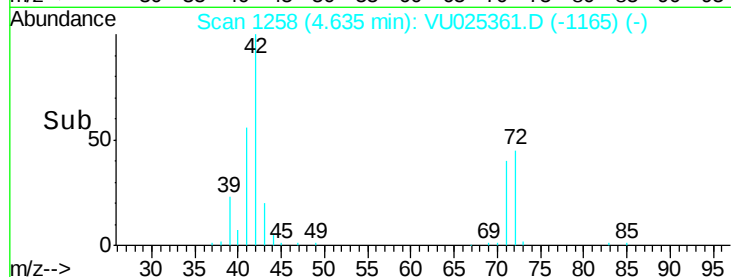
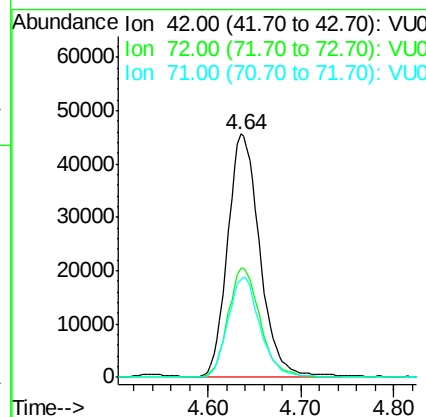
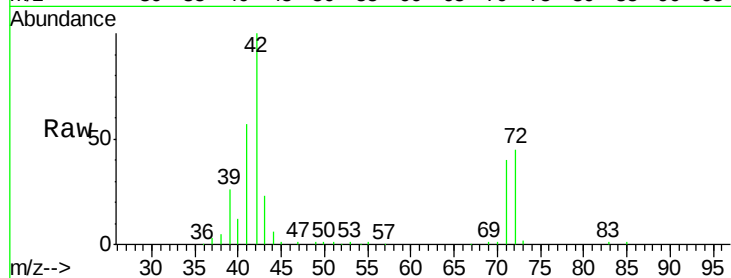
#29
Tetrahydrofuran
Concen: 103.978 ug/l
RT: 4.64 min Scan# 1258
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBS03

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.9	36.7	55.1
71	40.9	33.9	50.9

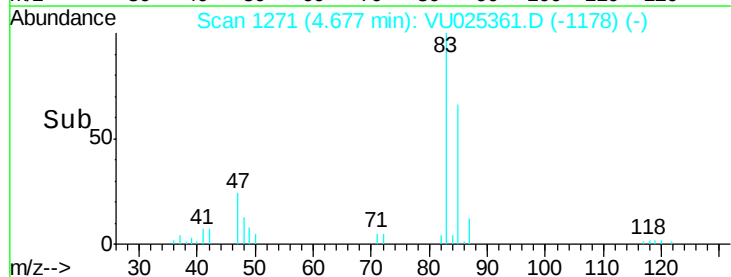
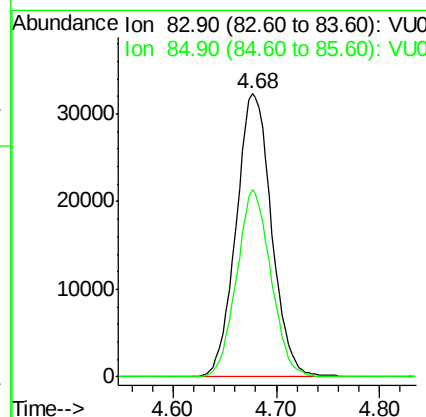
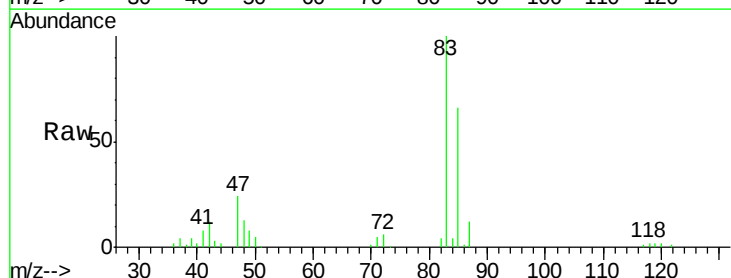
Manual Integrations
APPROVED

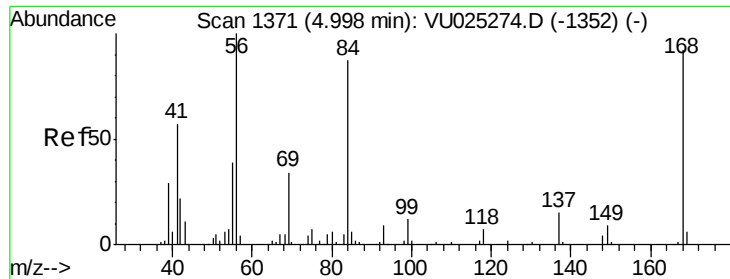
MMDadoda
7/13/2018 11:44:20 AM



#30
Chloroform
Concen: 21.108 ug/l
RT: 4.68 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.2	51.5	77.3





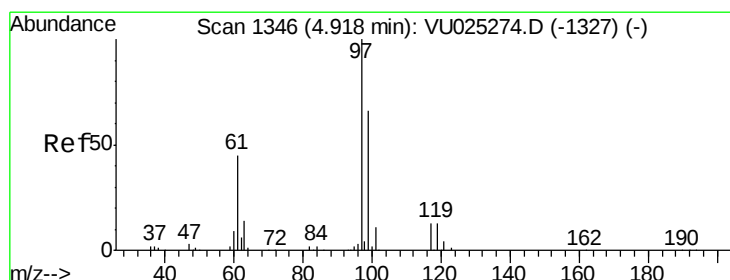
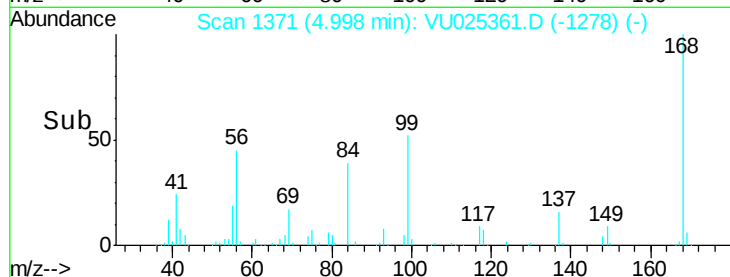
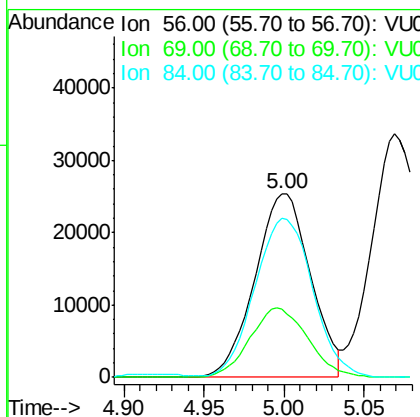
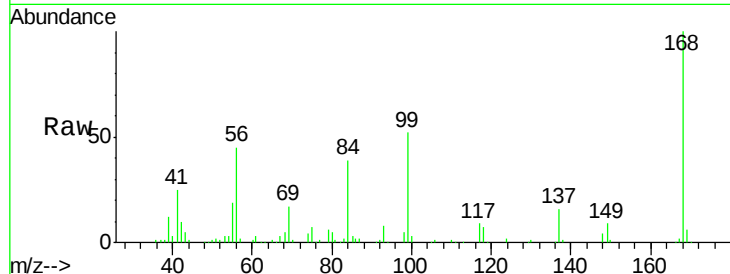
#31
Cyclohexane
Concen: 19.488 ug/l
RT: 5.00 min Scan# 1371
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBS03

Tot Ion	Ratio	Lower	Upper
56	100		
69	36.9	26.8	40.2
84	86.2	69.7	104.5

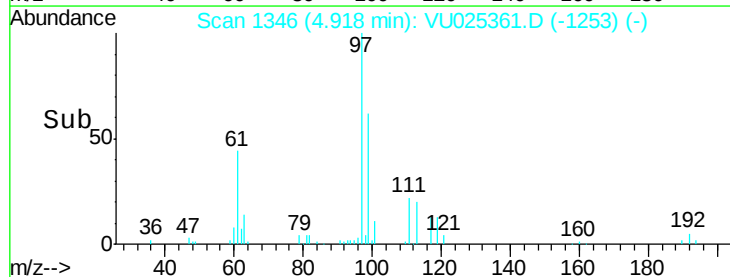
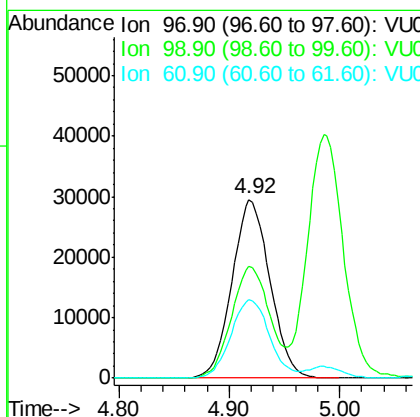
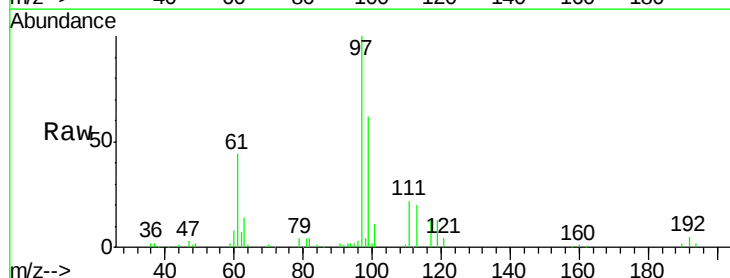
Manual Integrations
APPROVED

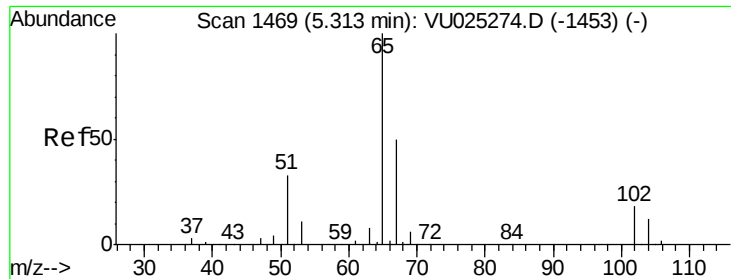
MMDadoda
7/13/2018 11:44:20 AM



#32
1,1,1-Trichloroethane
Concen: 21.164 ug/l
RT: 4.92 min Scan# 1346
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.2	50.8	76.2
61	44.6	35.2	52.8





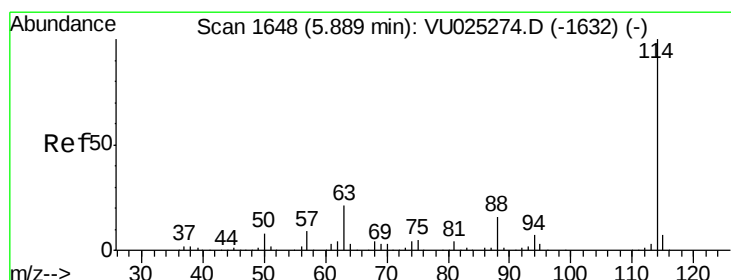
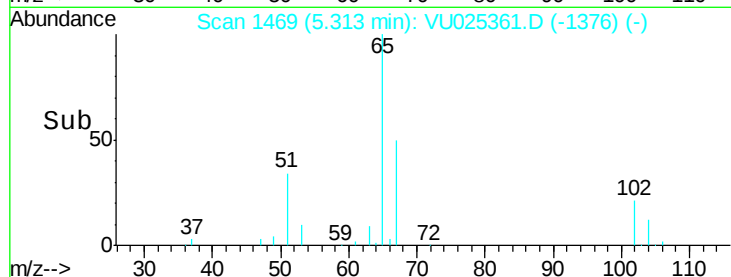
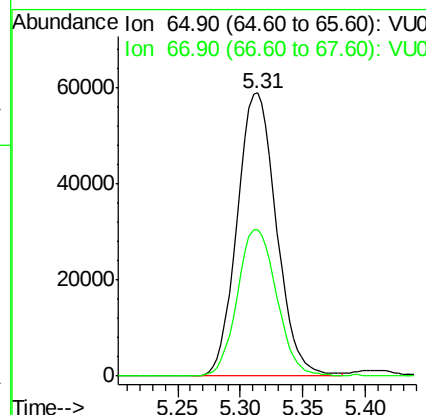
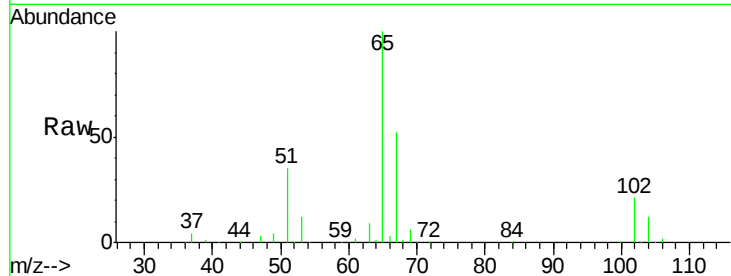
#33
 1,2-Dichloroethane-d4
 Concen: 50.457 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VU025361.D
 Acq: 13 Jul 2018 00:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0712WBS03

Tot Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	103.6

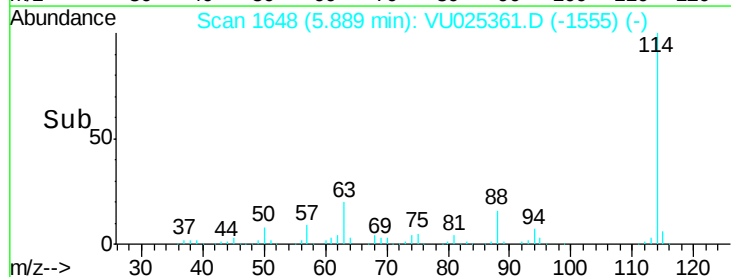
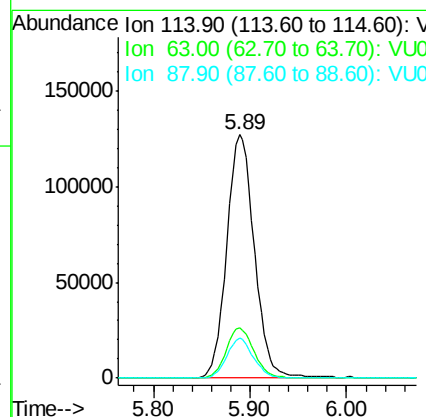
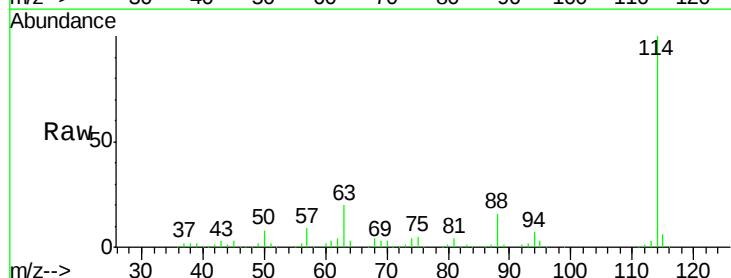
Manual Integrations
 APPROVED

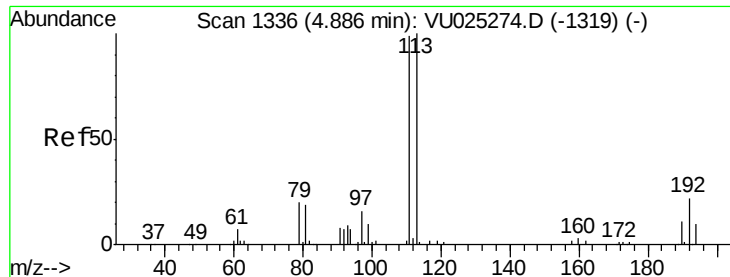
MMDadoda
 7/13/2018 11:44:20 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1648
 Delta R.T. 0.00 min
 Lab File: VU025361.D
 Acq: 13 Jul 2018 00:49

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	41.6
88	16.2	0.0	32.4





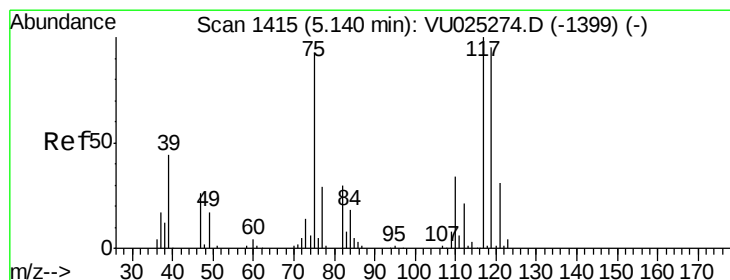
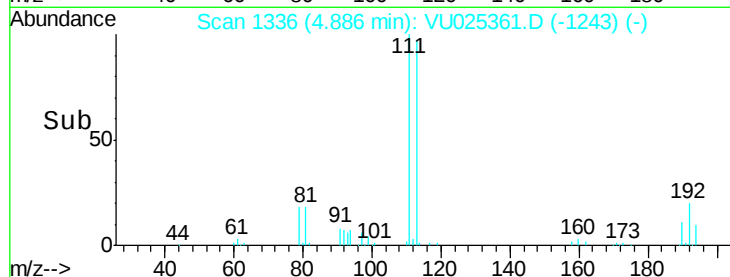
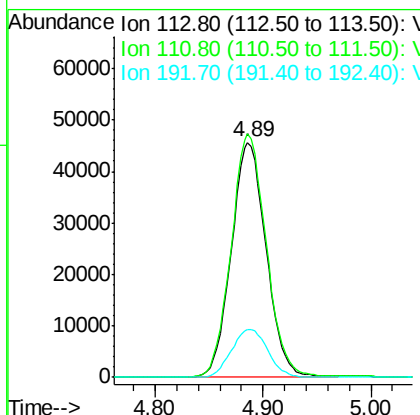
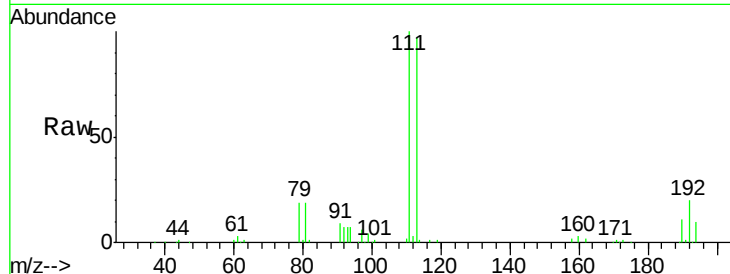
#35
 Dibromofluoromethane
 Concen: 48.256 ug/l
 RT: 4.89 min Scan# 1336
 Delta R.T. 0.00 min
 Lab File: VU025361.D
 Acq: 13 Jul 2018 00:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0712WBS03

Tot Ion	Ratio	Lower	Upper
113	100		
111	104.5	81.7	122.5
192	21.4	17.1	25.7

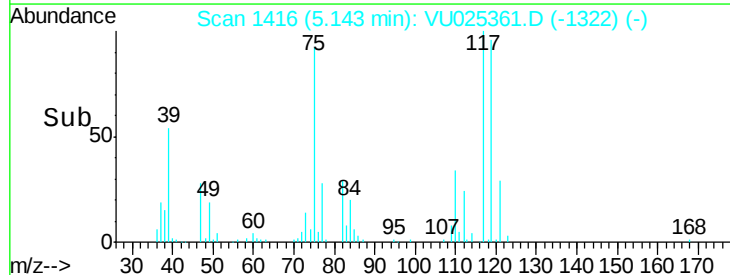
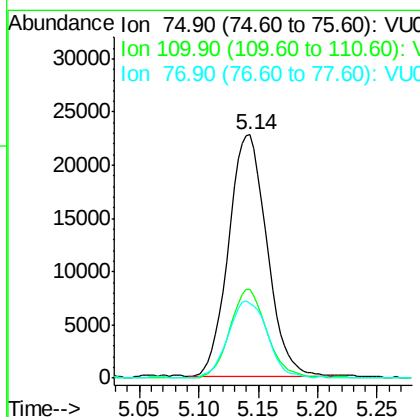
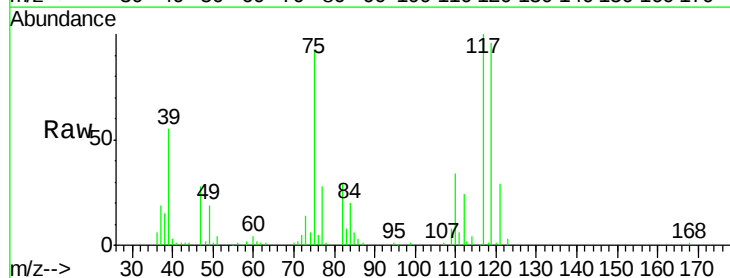
Manual Integrations
 APPROVED

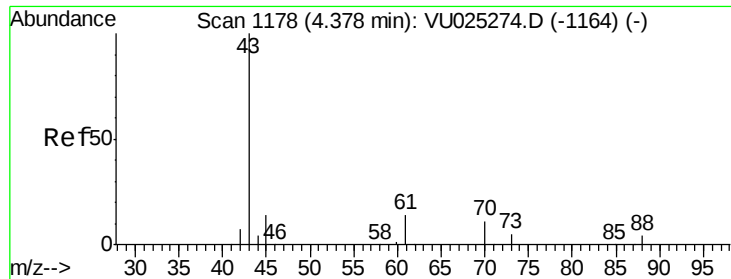
MMDadoda
 7/13/2018 11:44:20 AM



#36
 1,1-Dichloropropene
 Concen: 18.189 ug/l
 RT: 5.14 min Scan# 1416
 Delta R.T. 0.00 min
 Lab File: VU025361.D
 Acq: 13 Jul 2018 00:49

Tgt Ion	Ratio	Lower	Upper
75	100		
110	35.2	17.6	52.9
77	32.6	24.4	36.6





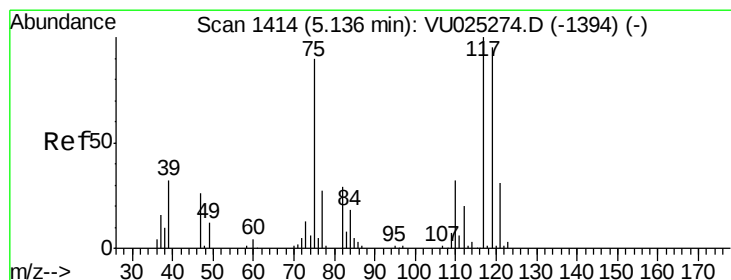
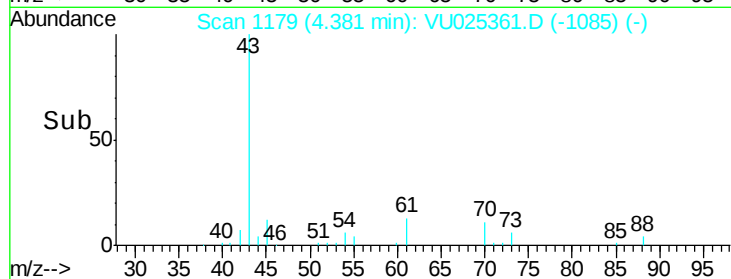
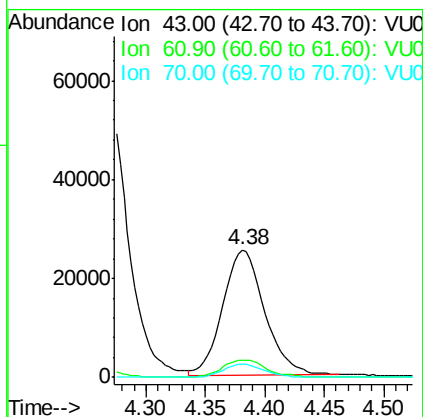
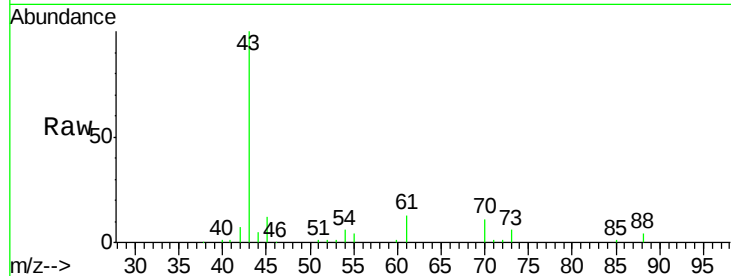
#37
Ethyl Acetate
Concen: 19.809 ug/l
RT: 4.38 min Scan# 1179
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBS03

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.4	10.7	16.1
70	10.4	8.4	12.6

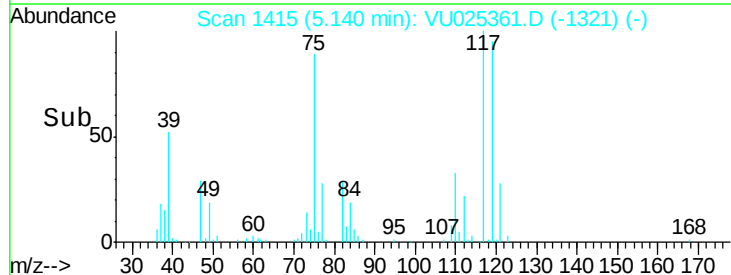
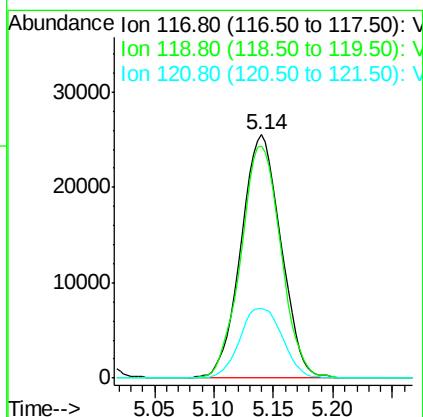
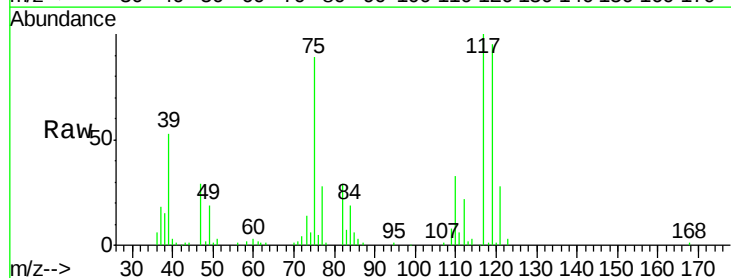
Manual Integrations
APPROVED

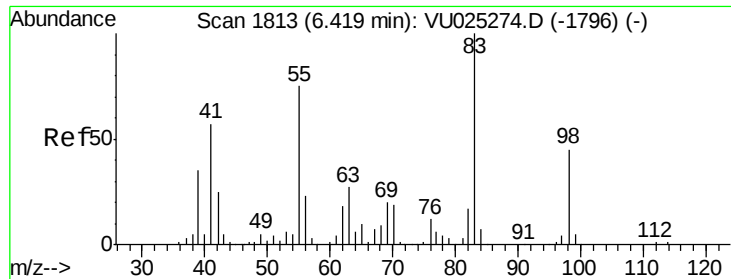
MMDadoda
7/13/2018 11:44:20 AM



#38
Carbon Tetrachloride
Concen: 19.702 ug/l
RT: 5.14 min Scan# 1415
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.3	75.7	113.5
121	28.4	24.6	36.8





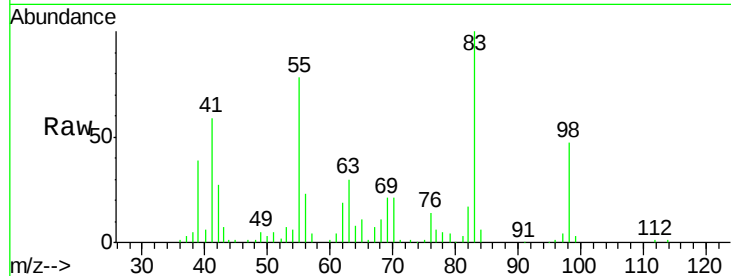
#39
Methvlcvclohexane
Concen: 17.372 ug/l
RT: 6.42 min Scan# 1813
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBS03

Tot Ion	Ratio	Lower	Upper
83	100		
55	77.5	60.0	90.0
98	46.9	36.1	54.1

Manual Integrations
APPROVED

MMDadoda
7/13/2018 11:44:20 AM

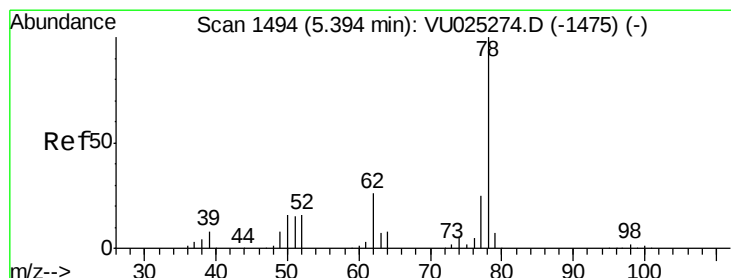
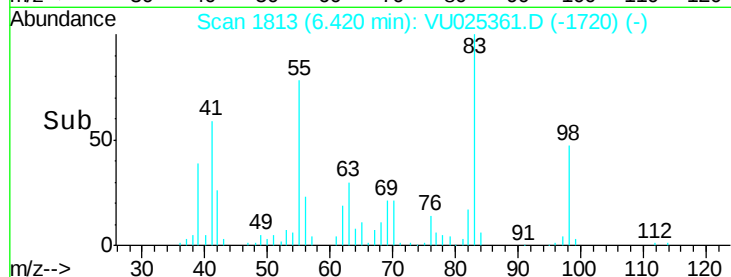
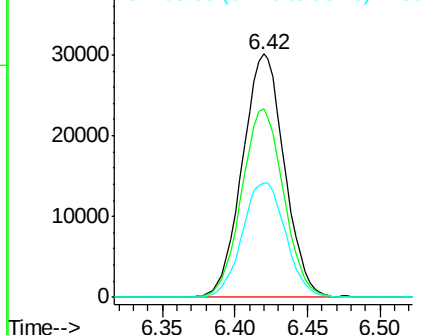


Abundance

Ion 83.00 (82.70 to 83.70): VU0

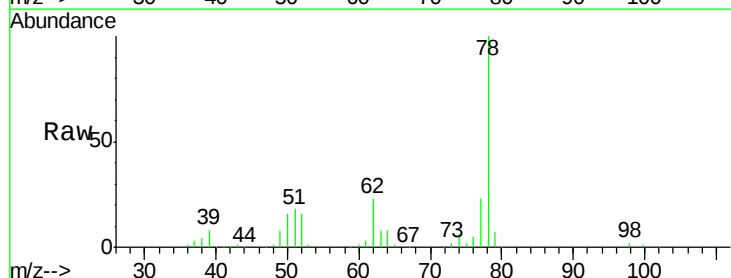
Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#40
Benzene
Concen: 19.637 ug/l
RT: 5.39 min Scan# 1494
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

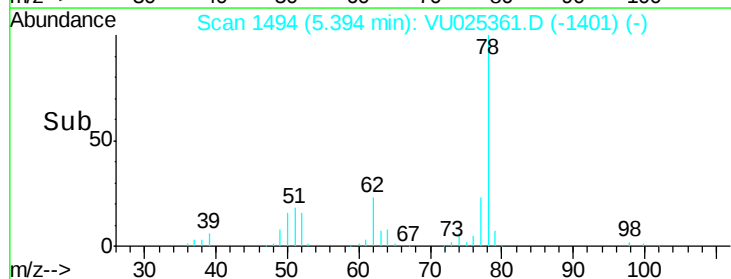
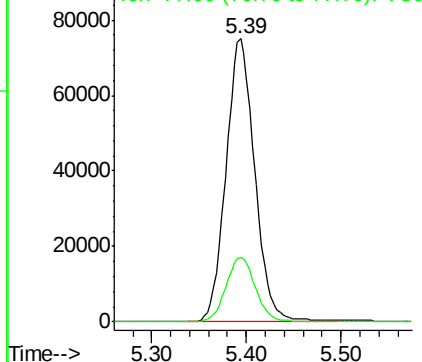
Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.8	19.8	29.6

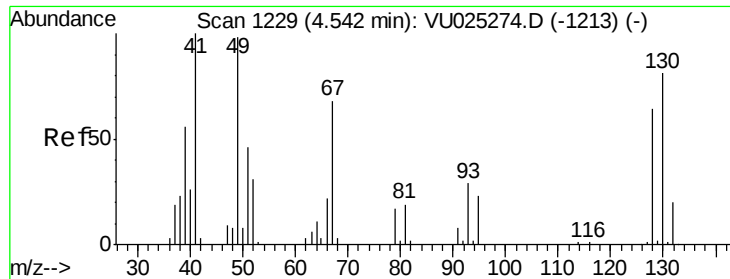


Abundance

Ion 78.00 (77.70 to 78.70): VU0

Ion 77.00 (76.70 to 77.70): VU0





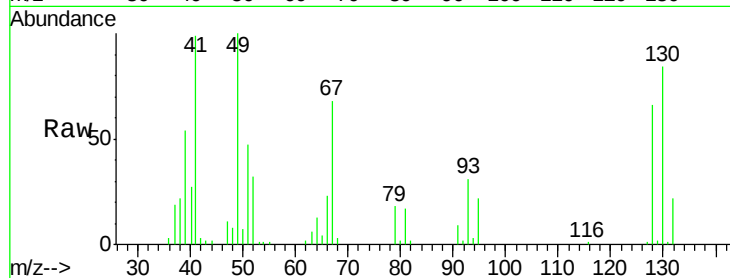
#41
Methacrylonitrile
Concen: 20.954 ug/l
RT: 4.55 min Scan# 1231
Delta R.T. 0.01 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBS03

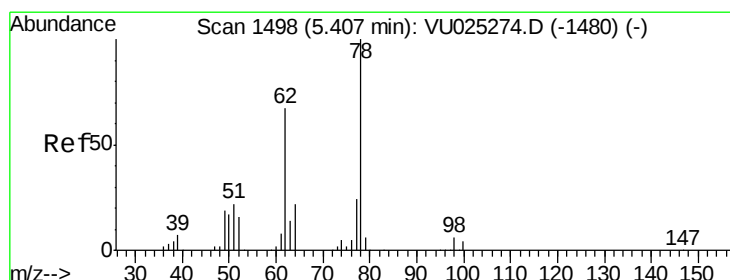
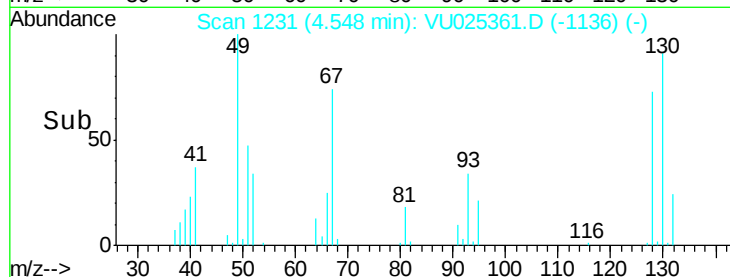
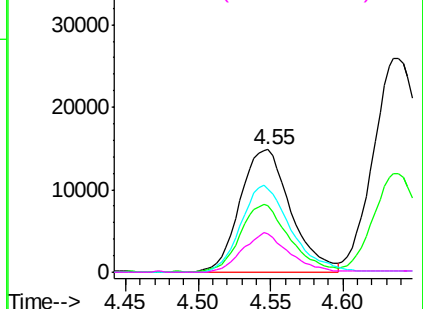
Tot Ion	Ratio	Lower	Upper
41	100		
39	53.7	44.4	66.6
67	69.5	56.0	84.0
52	29.2	24.6	36.8

Manual Integrations
APPROVED

MMDadoda
7/13/2018 11:44:20 AM

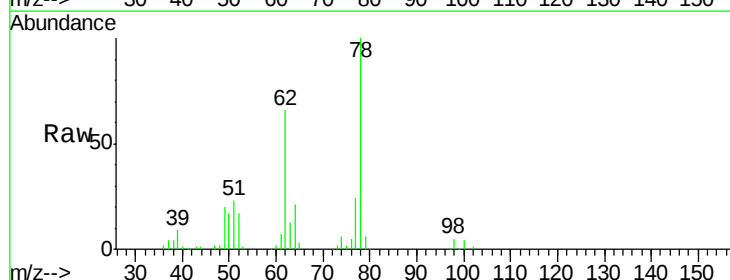


Abundance Ion 41.00 (40.70 to 41.70): VU0
Ion 39.00 (38.70 to 39.70): VU0
Ion 67.00 (66.70 to 67.70): VU0
Ion 52.00 (51.70 to 52.70): VU0

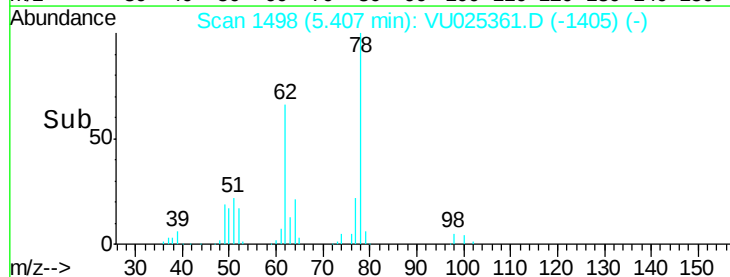
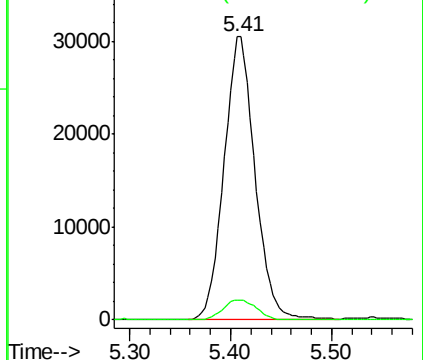


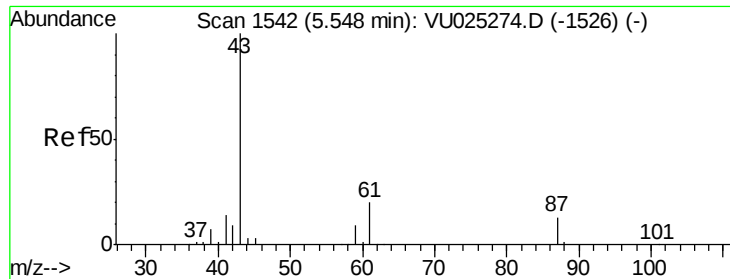
#42
1,2-Dichloroethane
Concen: 20.402 ug/l
RT: 5.41 min Scan# 1498
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Tgt Ion	Ratio	Lower	Upper
62	100		
98	7.7	0.0	16.4



Abundance Ion 61.90 (61.60 to 62.60): VU0
Ion 97.90 (97.60 to 98.60): VU0





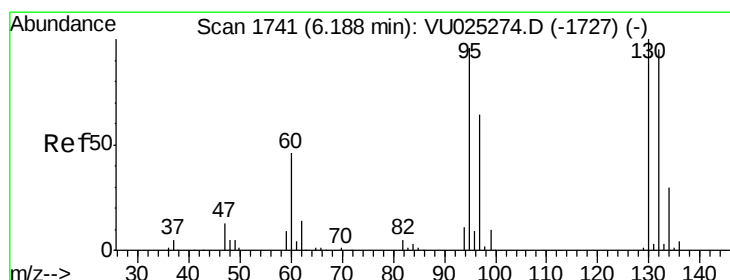
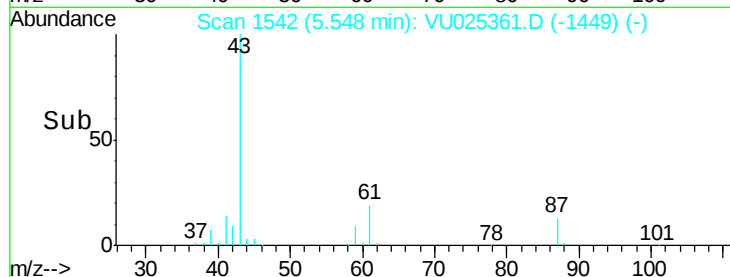
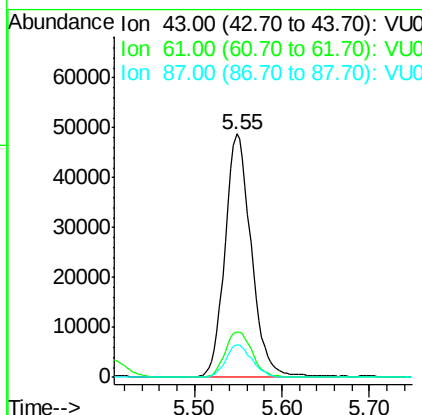
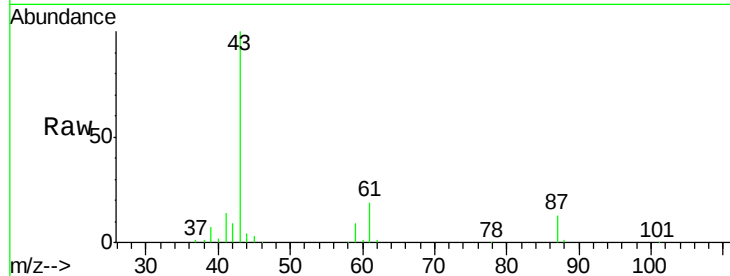
#43
Isopropyl Acetate
Concen: 20.422 ug/l
RT: 5.55 min Scan# 1542
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBS03

Tot Ion	Ratio	Lower	Upper
43	100		
61	19.2	15.5	23.3
87	13.4	10.6	16.0

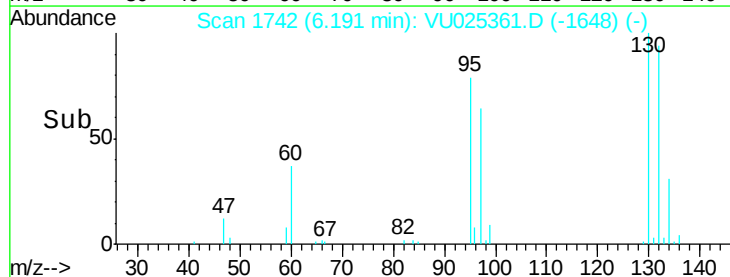
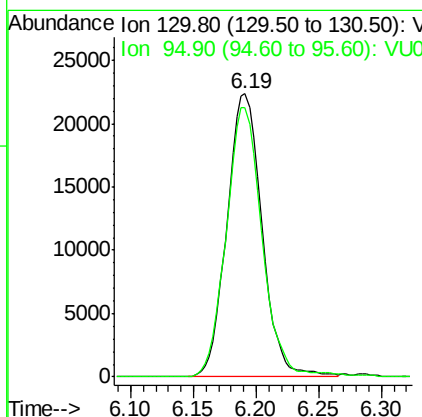
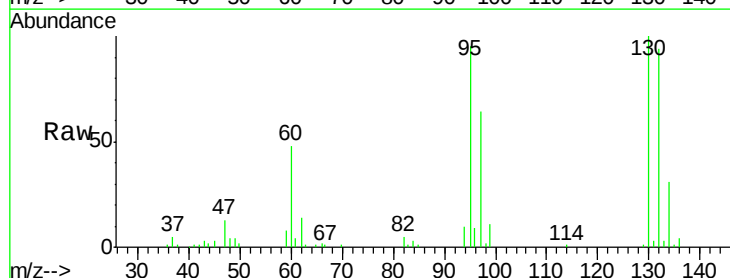
Manual Integrations
APPROVED

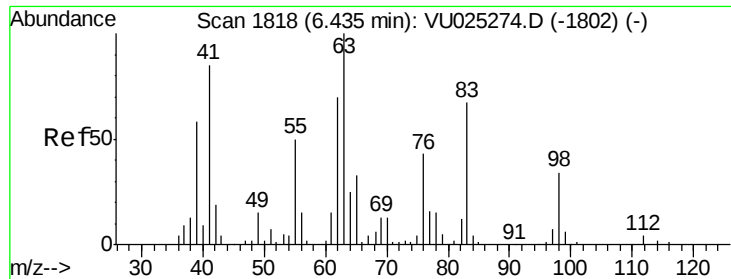
MMDadoda
7/13/2018 11:44:20 AM



#44
Trichloroethene
Concen: 18.736 ug/l
RT: 6.19 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Tgt Ion	Ratio	Lower	Upper
130	100		
95	95.0	0.0	192.2





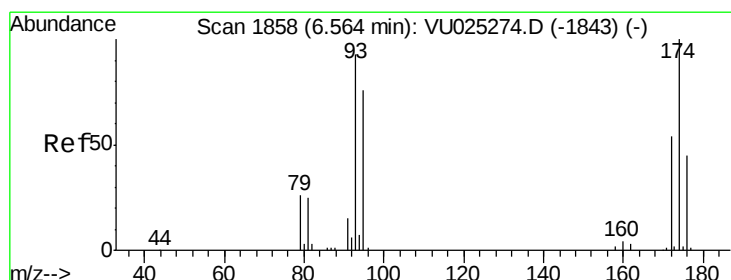
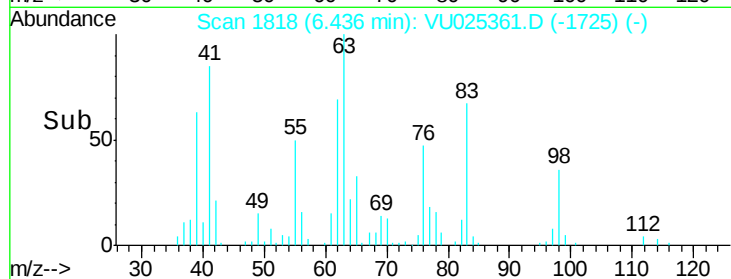
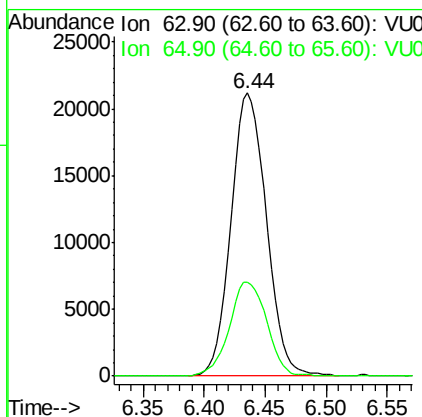
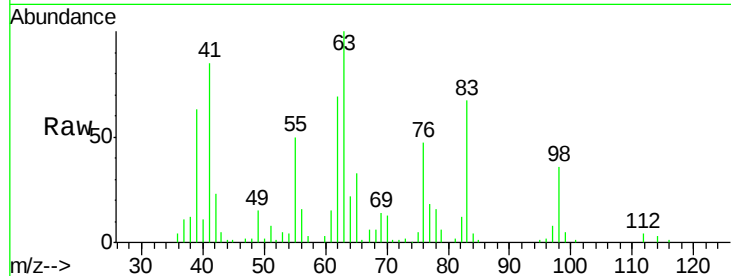
#45
 1,2-Dichloropropane
 Concen: 20.173 ug/l
 RT: 6.44 min Scan# 1818
 Delta R.T. 0.00 min
 Lab File: VU025361.D
 Acq: 13 Jul 2018 00:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0712WBS03

Tot Ion: 63 Resp: 42673
 Ion Ratio Lower Upper
 63 100
 65 33.1 26.1 39.1

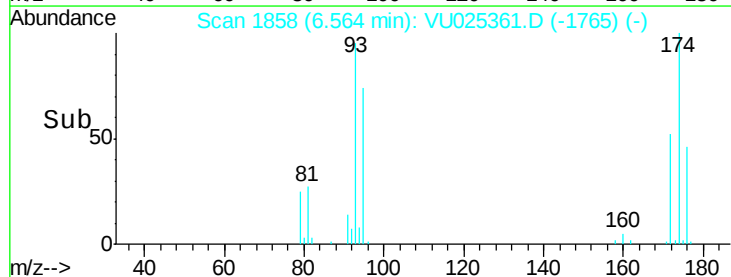
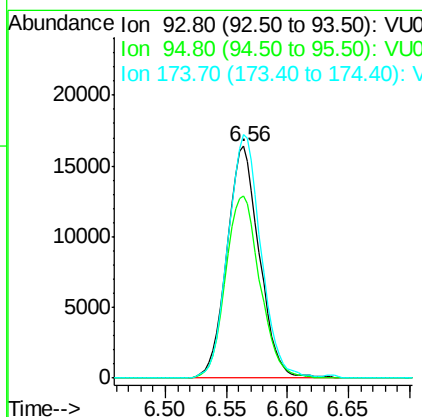
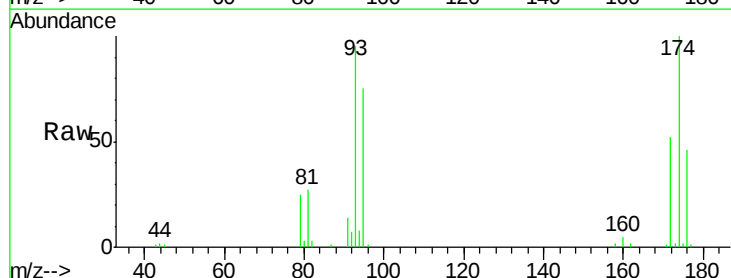
Manual Integrations
 APPROVED

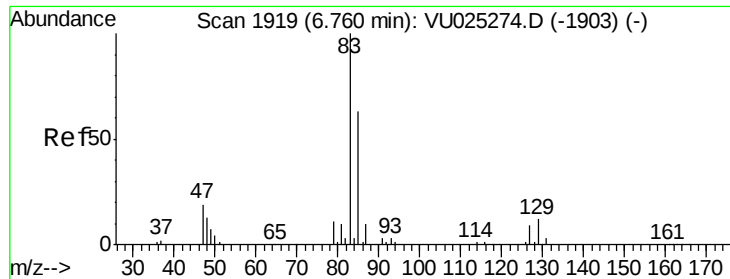
MMDadoda
 7/13/2018 11:44:20 AM



#46
 Dibromomethane
 Concen: 19.777 ug/l
 RT: 6.56 min Scan# 1858
 Delta R.T. 0.00 min
 Lab File: VU025361.D
 Acq: 13 Jul 2018 00:49

Tgt Ion: 93 Resp: 30446
 Ion Ratio Lower Upper
 93 100
 95 83.3 66.6 100.0
 174 106.5 85.8 128.8





#47

Bromodichloromethane

Concen: 19.987 ug/l

RT: 6.76 min Scan# 1919

Delta R.T. 0.00 min

Lab File: VU025361.D

Acq: 13 Jul 2018 00:49

Instrument :

MSVOA_U

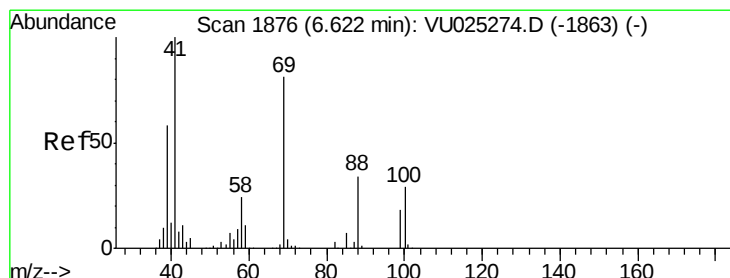
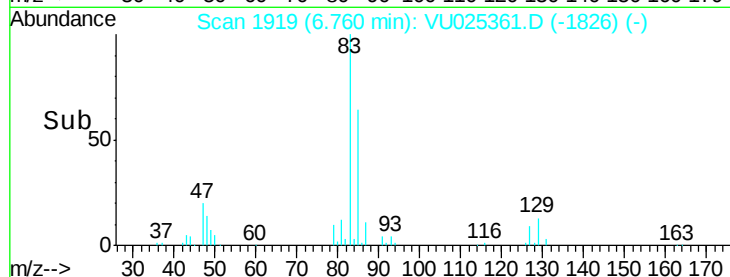
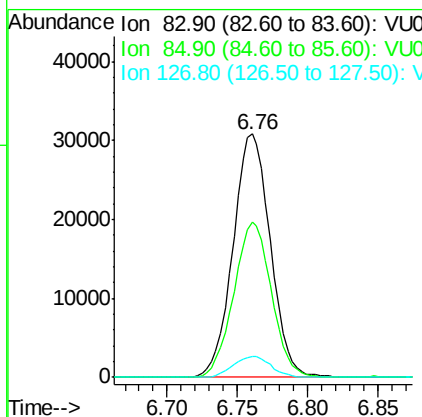
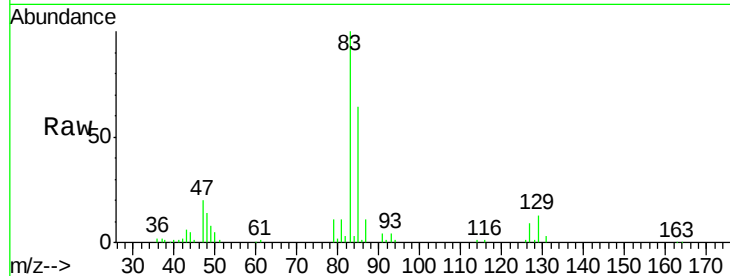
ClientSampleId :

VU0712WBS03

Tot Ion:	83	Resp:	57158
Ion	Ratio	Lower	Upper
83	100		
85	63.5	50.2	75.4
127	8.6	7.2	10.8

Manual Integrations
APPROVED

MMDadoda
7/13/2018 11:44:20 AM



#48

Methyl methacrylate

Concen: 20.552 ug/l

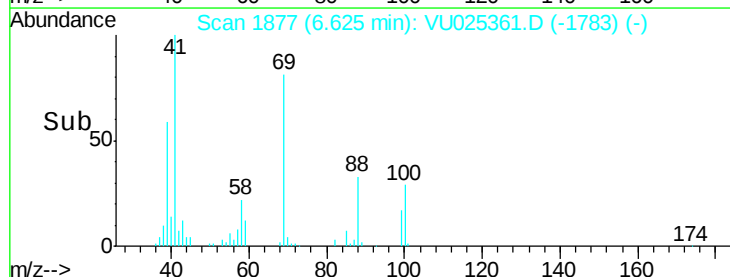
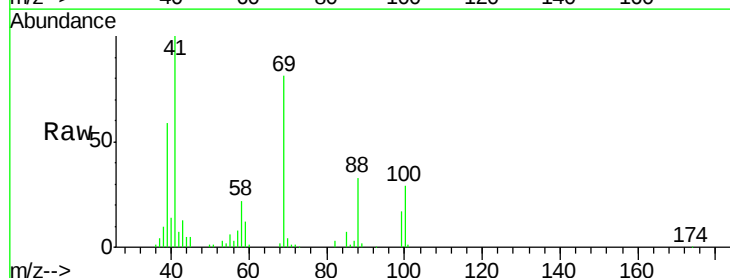
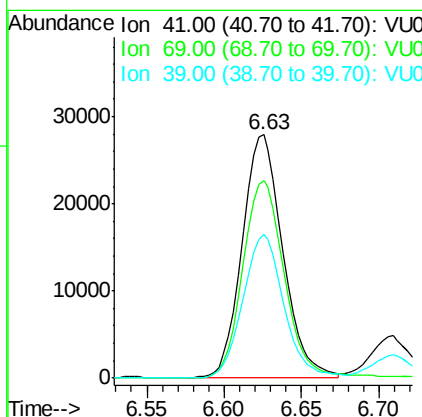
RT: 6.63 min Scan# 1877

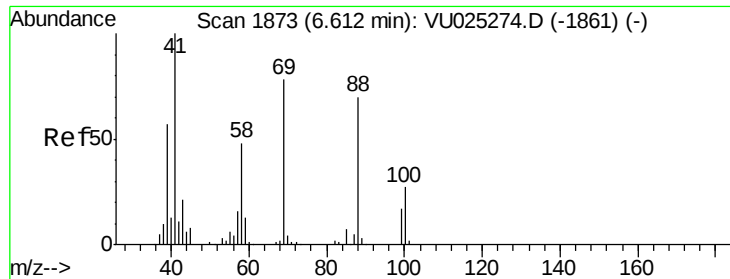
Delta R.T. 0.00 min

Lab File: VU025361.D

Acq: 13 Jul 2018 00:49

Tgt Ion:	41	Resp:	51280
Ion	Ratio	Lower	Upper
41	100		
69	82.2	65.0	97.4
39	59.4	46.4	69.6





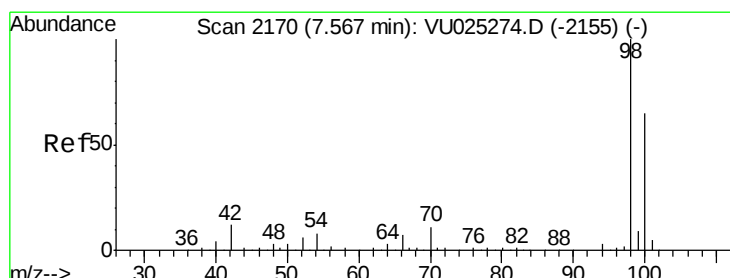
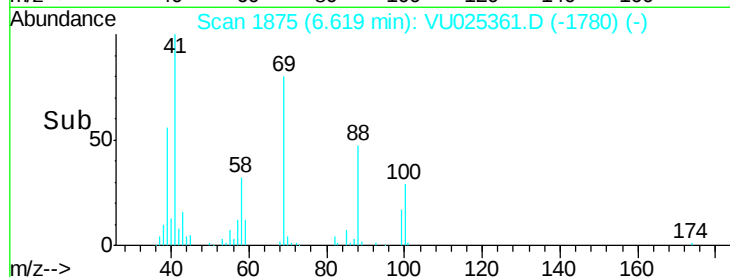
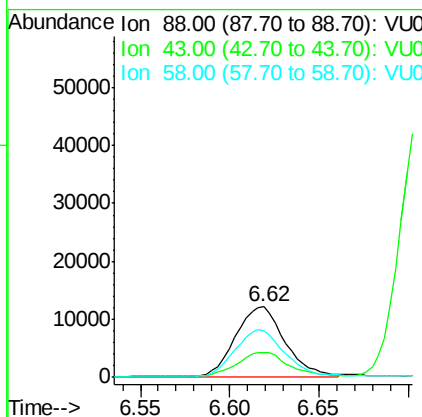
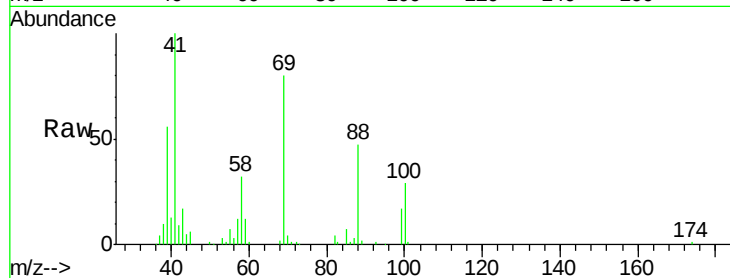
#49
1,4-Dioxane
Concen: 395.024 ug/l
RT: 6.62 min Scan# 1875
Delta R.T. 0.01 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBS03

Tot Ion	Ratio	Lower	Upper
88	100		
43	34.4	27.3	40.9
58	69.5	57.6	86.4

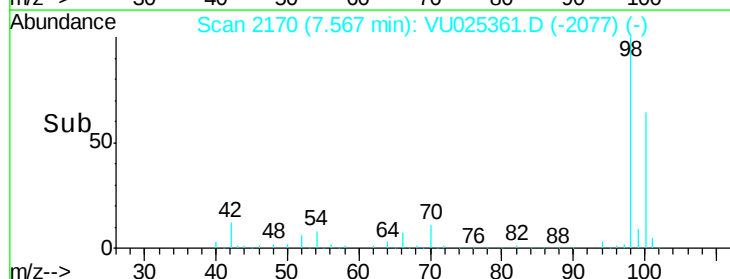
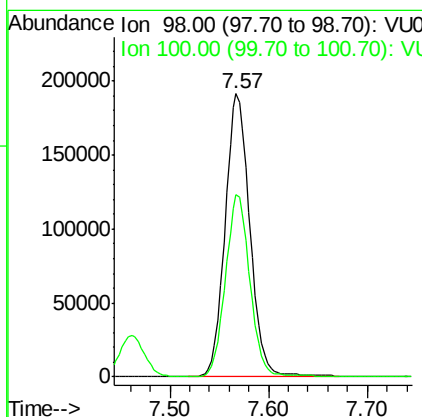
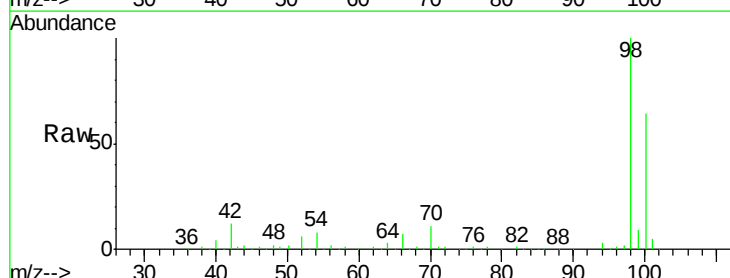
Manual Integrations
APPROVED

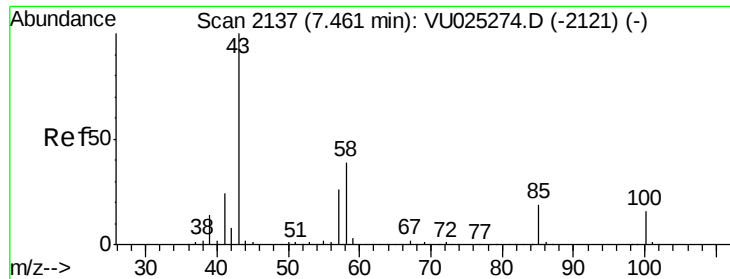
MMDadoda
7/13/2018 11:44:20 AM



#50
Toluene-d8
Concen: 46.312 ug/l
RT: 7.57 min Scan# 2170
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.5	51.1	76.7





#51

4-Methyl-2-Pentanone

Concen: 99.949 ug/l

RT: 7.46 min Scan# 2137

Delta R.T. 0.00 min

Lab File: VU025361.D

Acq: 13 Jul 2018 00:49

Instrument :

MSVOA_U

ClientSampleId :

VU0712WBS03

Tot Ion: 43 Resp: 325144

Ion Ratio Lower Upper

43 100

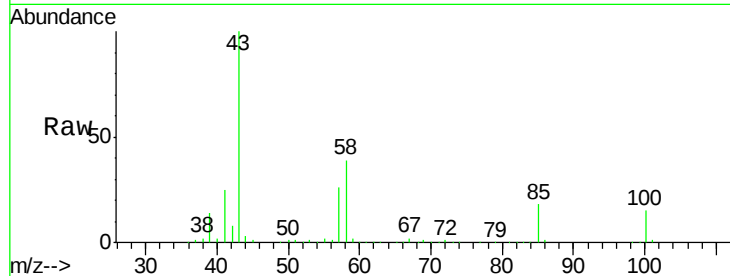
58 38.5 31.0 46.4

Manual Integrations

APPROVED

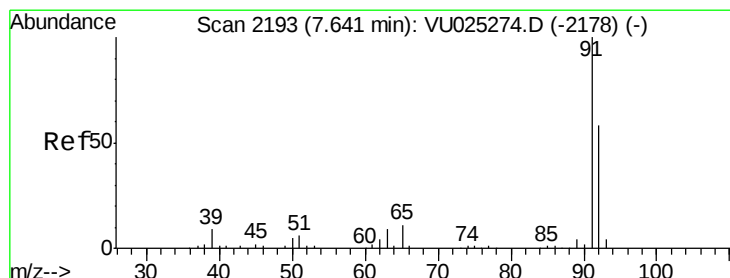
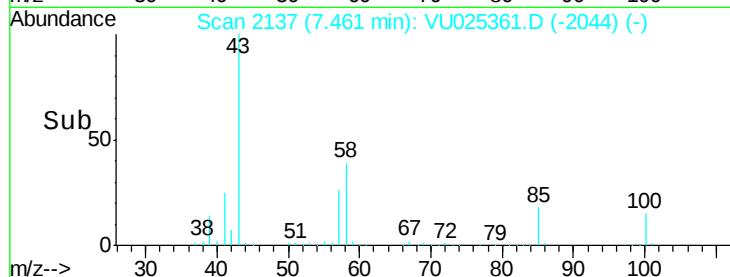
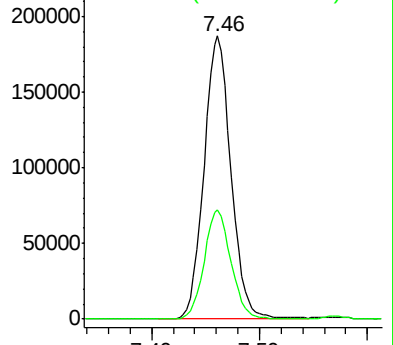
MMDadoda

7/13/2018 11:44:20 AM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#52

Toluene

Concen: 19.396 ug/l

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU025361.D

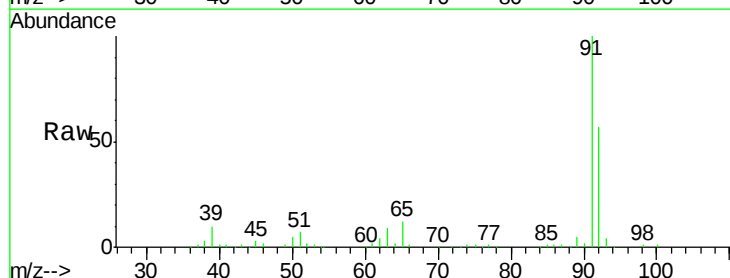
Acq: 13 Jul 2018 00:49

Tgt Ion: 92 Resp: 99664

Ion Ratio Lower Upper

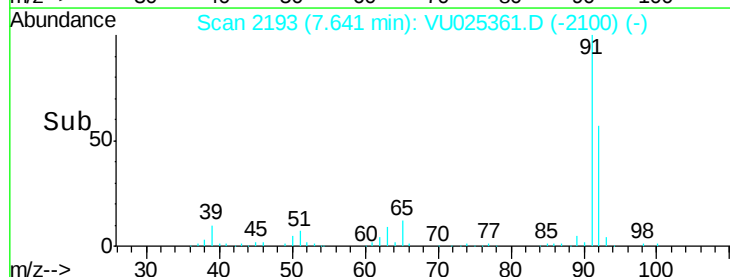
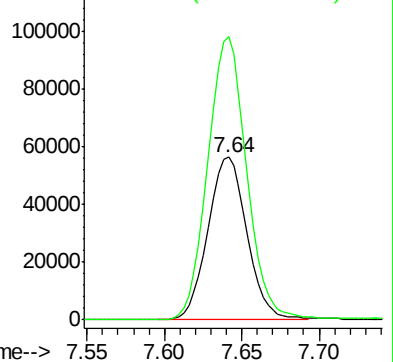
92 100

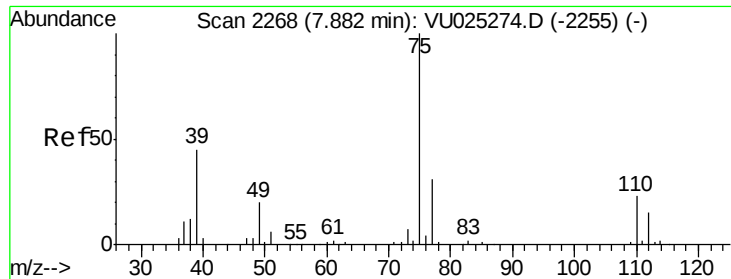
91 174.0 139.2 208.8



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0





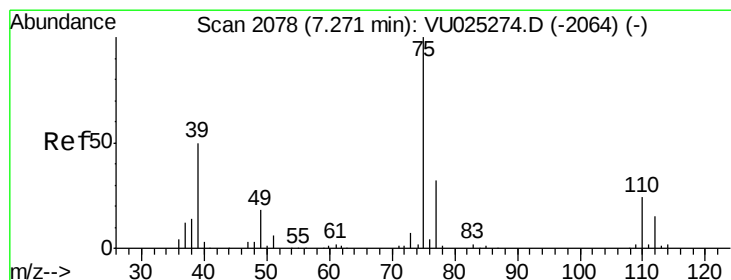
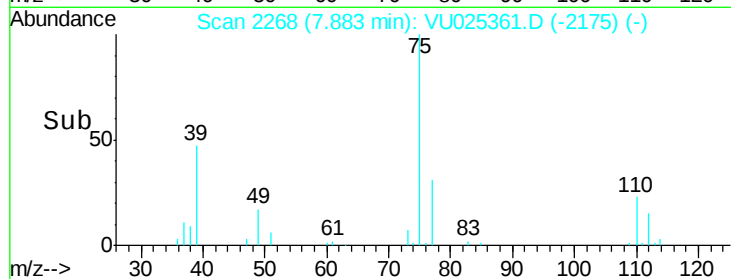
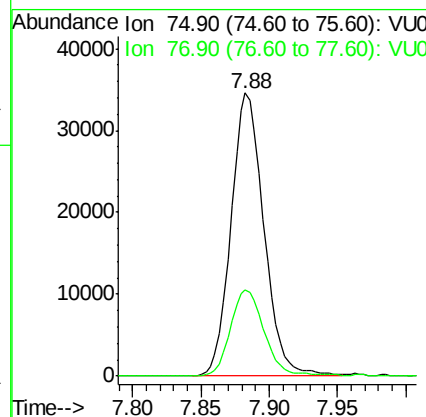
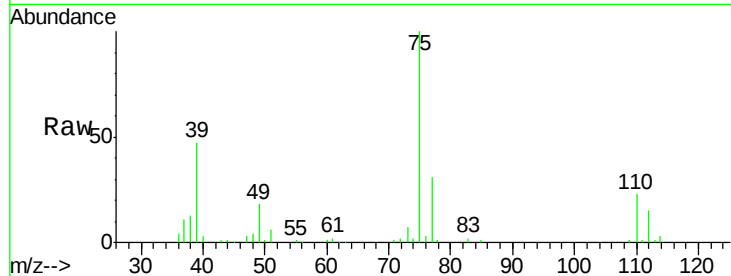
#53
t-1,3-Dichloropropene
Concen: 18.448 ug/l
RT: 7.88 min Scan# 2268
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBS03

Tot Ion: 75 Resp: 57963
Ion Ratio Lower Upper
75 100
77 30.5 24.5 36.7

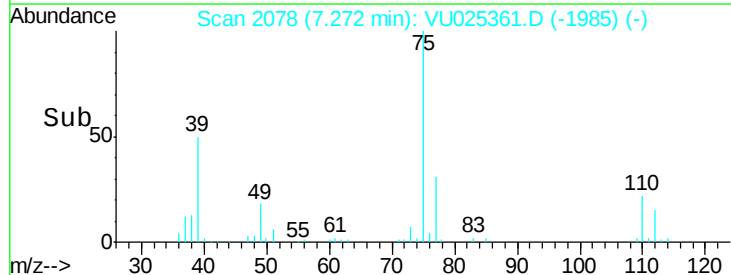
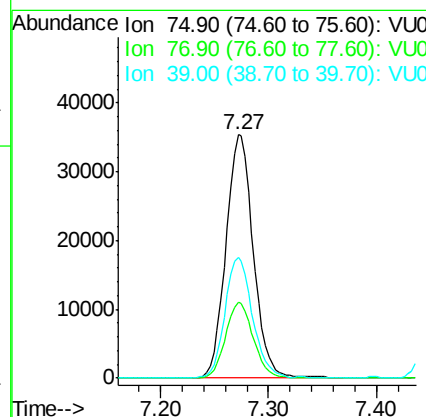
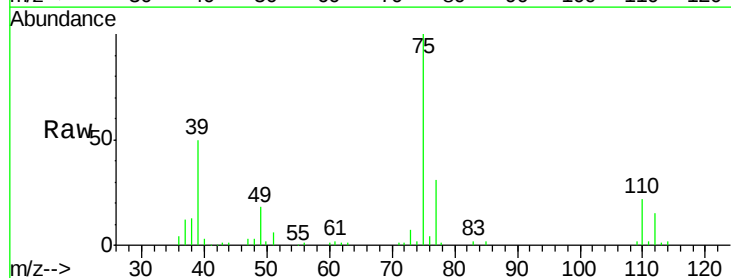
Manual Integrations
APPROVED

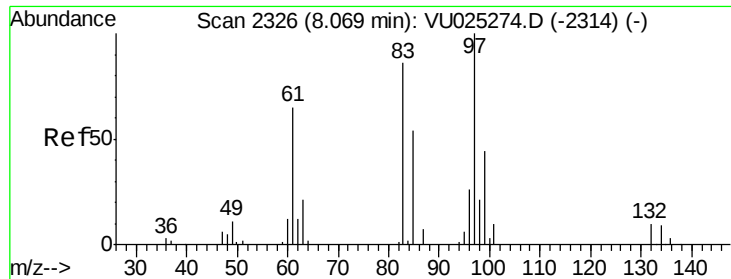
MMDadoda
7/13/2018 11:44:20 AM



#54
cis-1,3-Dichloropropene
Concen: 18.626 ug/l
RT: 7.27 min Scan# 2078
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Tgt Ion: 75 Resp: 62287
Ion Ratio Lower Upper
75 100
77 30.9 25.6 38.4
39 49.4 40.0 60.0





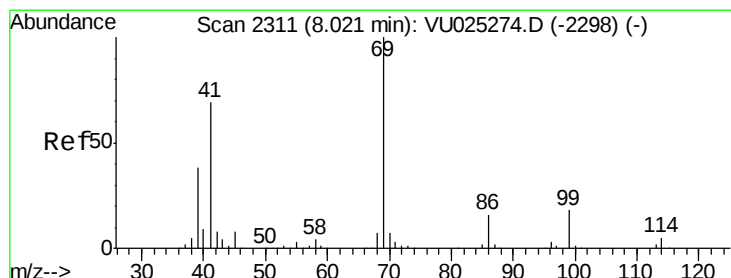
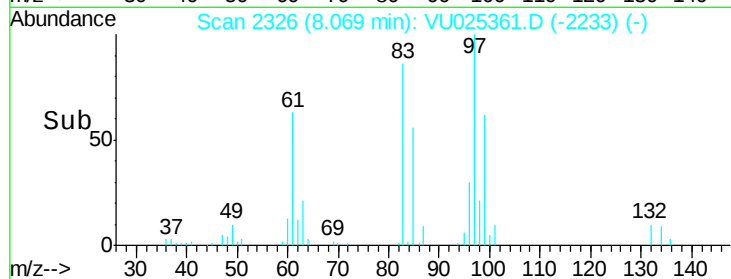
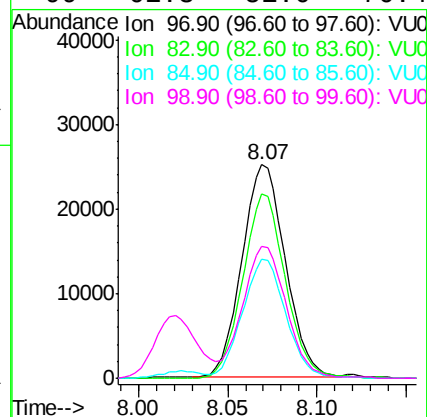
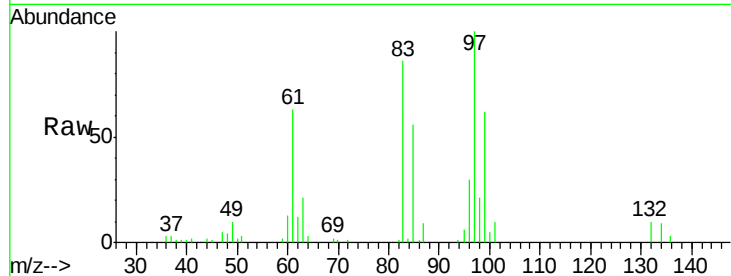
#55
 1,1,2-Trichloroethane
 Concen: 19.942 ug/l
 RT: 8.07 min Scan# 2326
 Delta R.T. 0.00 min
 Lab File: VU025361.D
 Acq: 13 Jul 2018 00:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0712WBS03

Tot Ion:	97	Resp:	42676
Ion	Ratio	Lower	Upper
97	100		
83	86.9	68.9	103.3
85	55.6	44.4	66.6
99	61.3	51.0	76.4

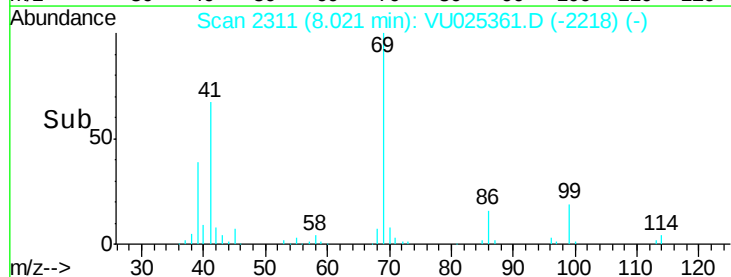
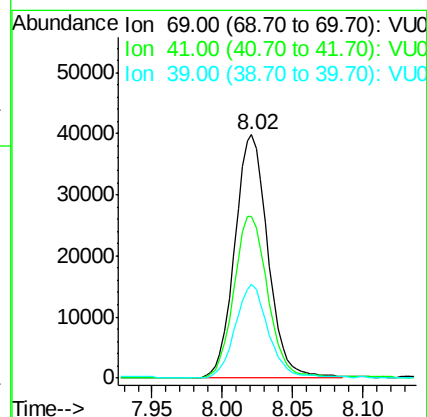
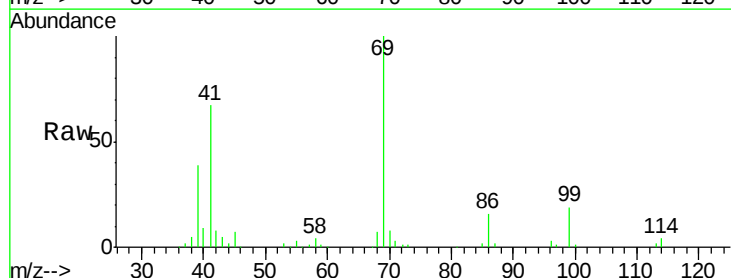
Manual Integrations
 APPROVED

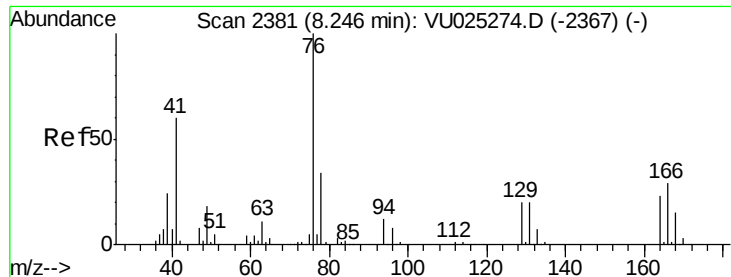
MMDadoda
 7/13/2018 11:44:20 AM



#56
 Ethyl methacrylate
 Concen: 19.638 ug/l
 RT: 8.02 min Scan# 2311
 Delta R.T. 0.00 min
 Lab File: VU025361.D
 Acq: 13 Jul 2018 00:49

Tgt Ion:	69	Resp:	65638
Ion	Ratio	Lower	Upper
69	100		
41	68.0	54.8	82.2
39	38.9	31.1	46.7





#57

1,3-Dichloropropane

Concen: 20.222 ug/l

RT: 8.25 min Scan# 2381

Delta R.T. 0.00 min

Lab File: VU025361.D

Acq: 13 Jul 2018 00:49

Tot Ion: 76 Resp: 71841

Ion Ratio Lower Upper

76 100

78 33.0 26.1 39.1

Instrument :

MSVOA_U

ClientSampleId :

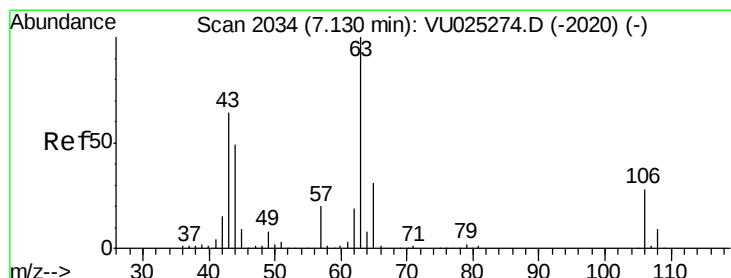
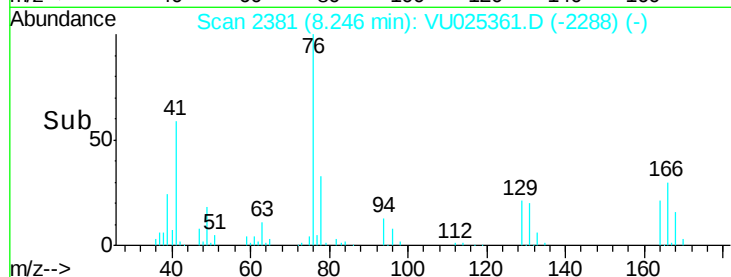
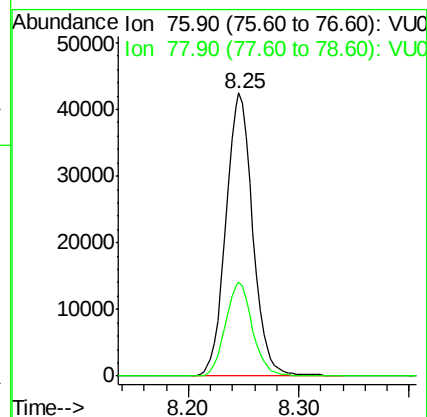
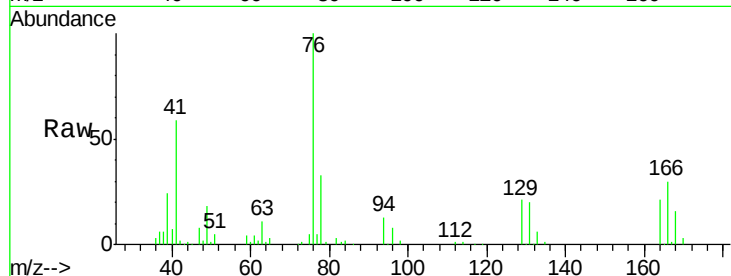
VU0712WBS03

Manual Integrations

APPROVED

MMDadoda

7/13/2018 11:44:20 AM



#58

2-Chloroethyl Vinyl ether

Concen: 80.975 ug/l

RT: 7.13 min Scan# 2034

Delta R.T. 0.00 min

Lab File: VU025361.D

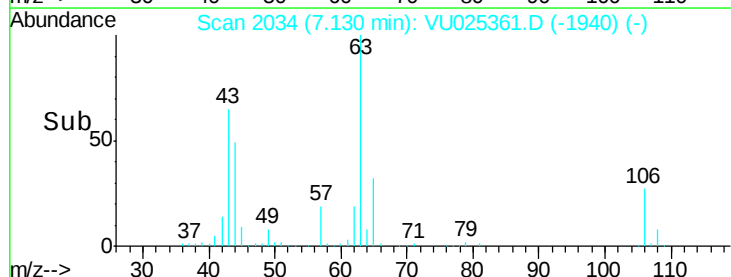
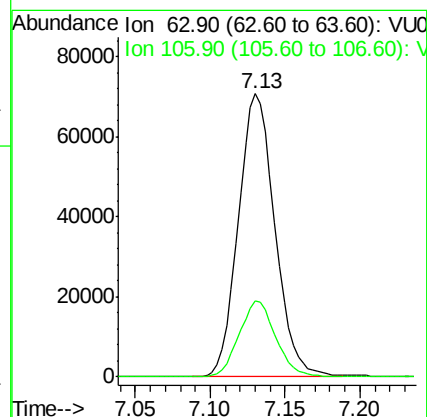
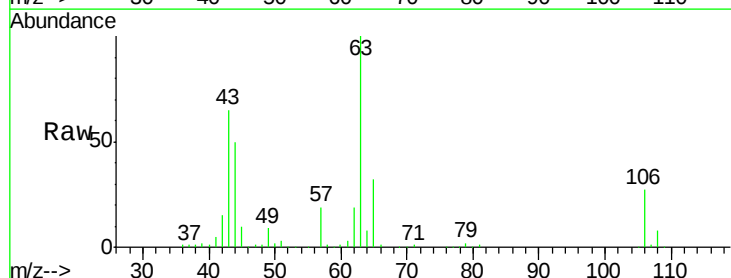
Acq: 13 Jul 2018 00:49

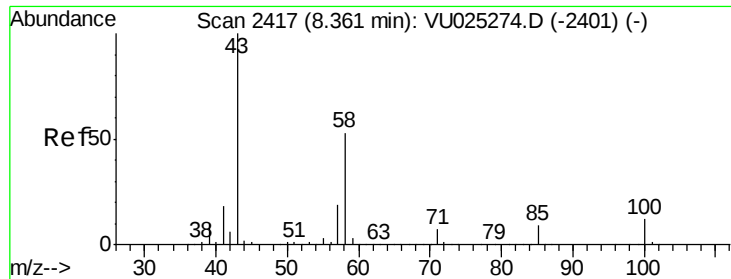
Tgt Ion: 63 Resp: 120283

Ion Ratio Lower Upper

63 100

106 27.0 22.3 33.5





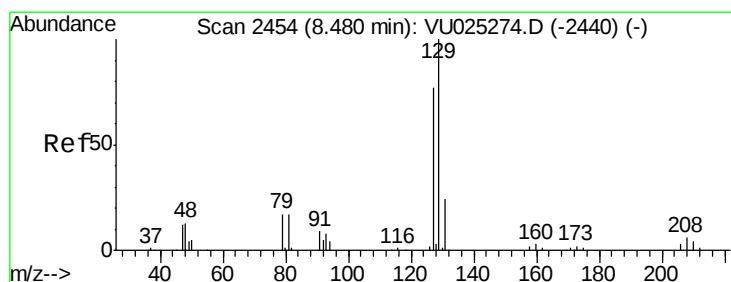
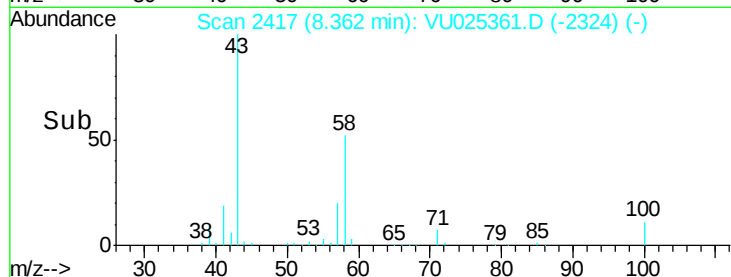
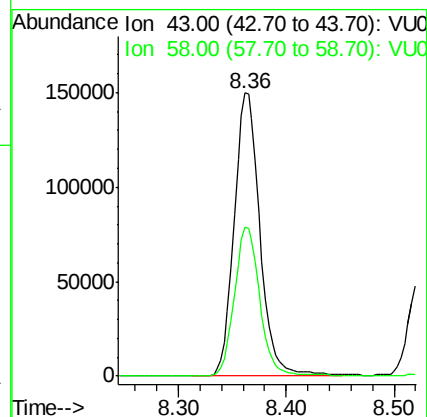
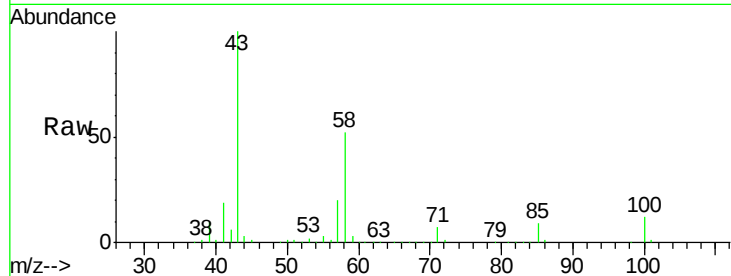
#59
2-Hexanone
Concen: 94.368 ug/l
RT: 8.36 min Scan# 2417
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBS03

Tot Ion: 43 Resp: 249010
Ion Ratio Lower Upper
43 100
58 51.9 26.2 78.5

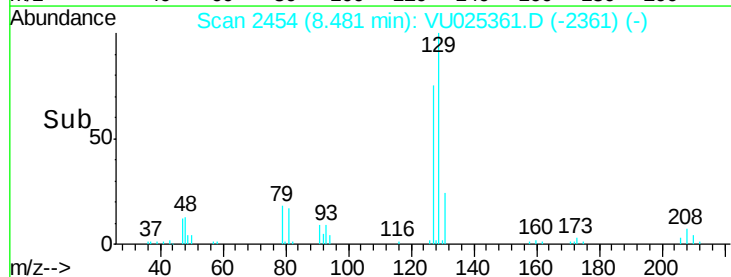
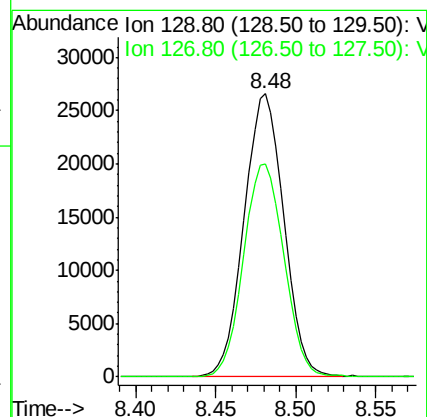
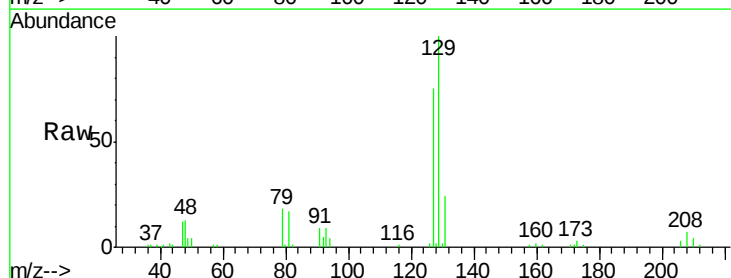
Manual Integrations
APPROVED

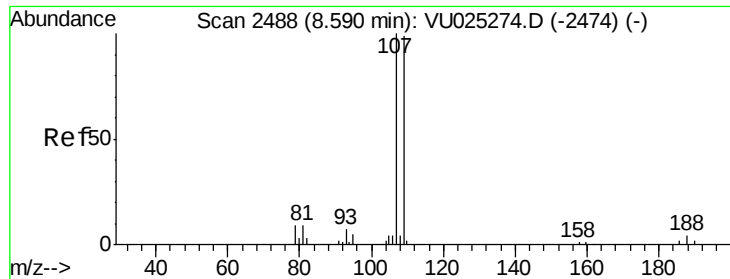
MMDadoda
7/13/2018 11:44:20 AM



#60
Dibromochloromethane
Concen: 19.567 ug/l
RT: 8.48 min Scan# 2454
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Tgt Ion: 129 Resp: 45222
Ion Ratio Lower Upper
129 100
127 76.3 38.6 115.8





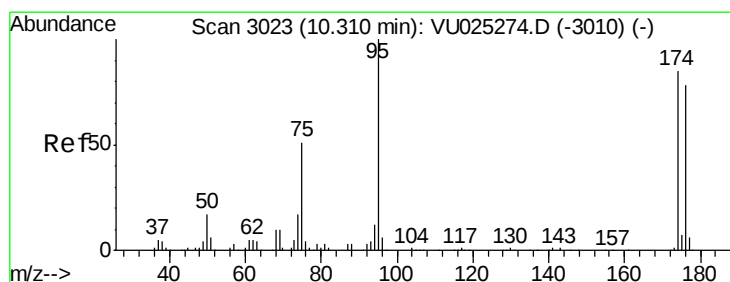
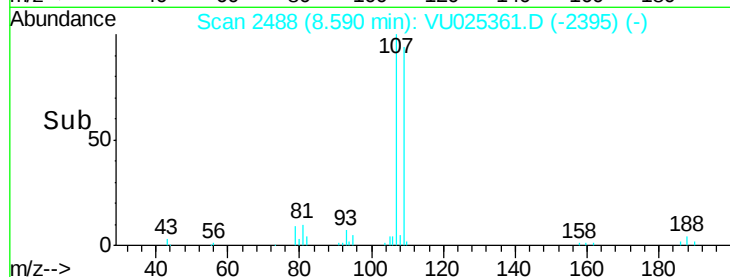
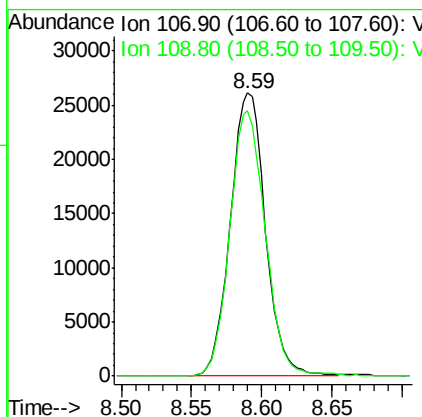
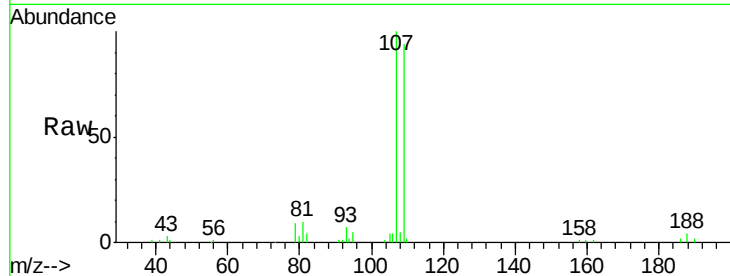
#61
 1,2-Dibromoethane
 Concen: 19.905 ug/l
 RT: 8.59 min Scan# 2488
 Delta R.T. 0.00 min
 Lab File: VU025361.D
 Acq: 13 Jul 2018 00:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0712WBS03

Tot Ion:107 Resp: 45577
 Ion Ratio Lower Upper
 107 100
 109 95.0 75.8 113.8

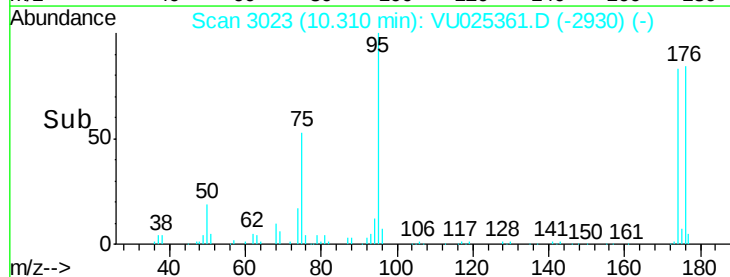
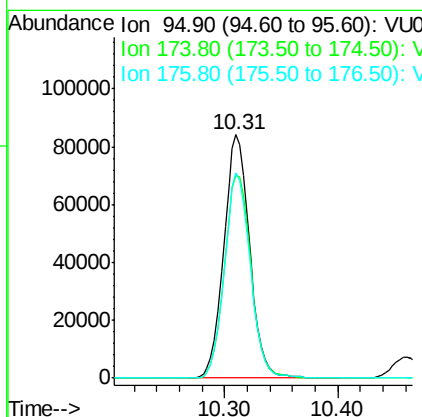
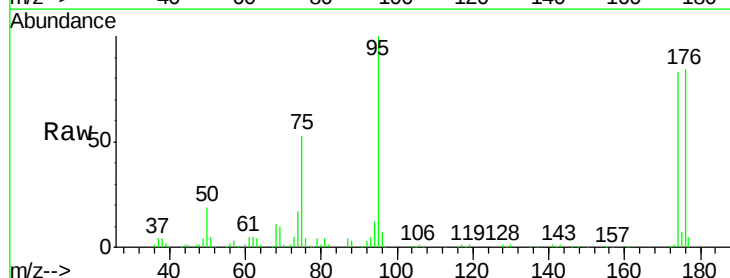
Manual Integrations
 APPROVED

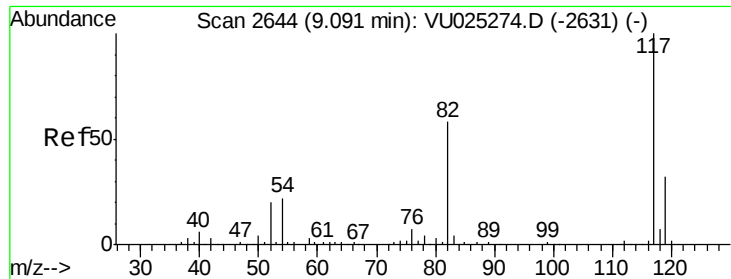
MMDadoda
 7/13/2018 11:44:20 AM



#62
 4-Bromofluorobenzene
 Concen: 45.431 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. 0.00 min
 Lab File: VU025361.D
 Acq: 13 Jul 2018 00:49

Tgt Ion: 95 Resp: 133195
 Ion Ratio Lower Upper
 95 100
 174 85.9 0.0 172.2
 176 84.8 0.0 162.6





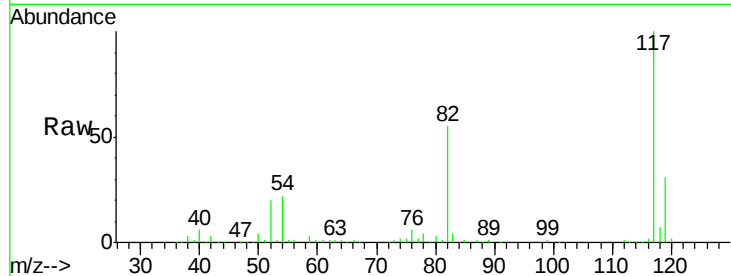
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBS03

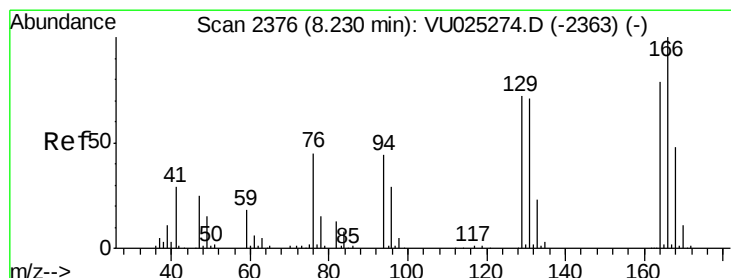
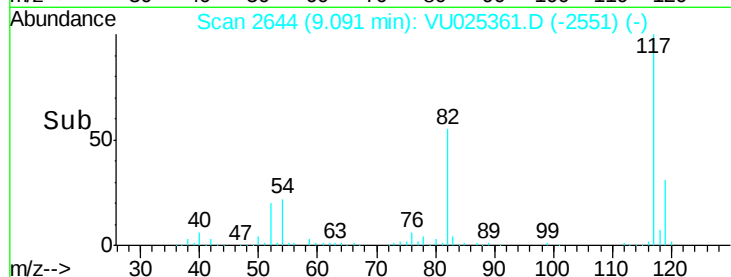
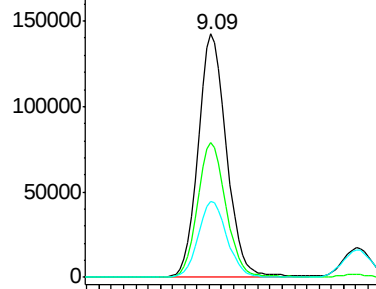
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.4	46.0	69.0
119	31.1	26.0	39.0

Manual Integrations
APPROVED

MMDadoda
7/13/2018 11:44:20 AM



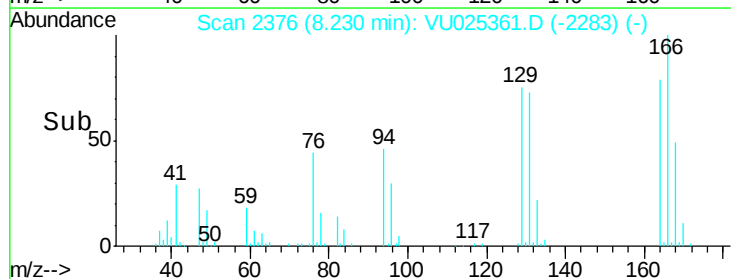
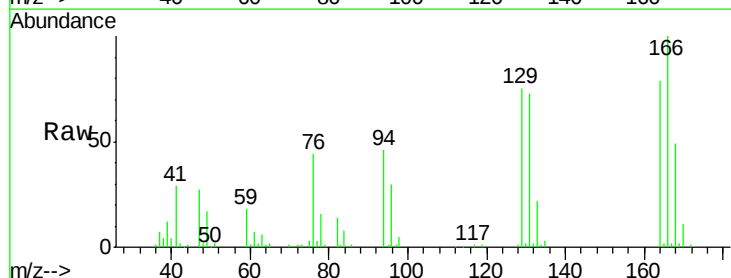
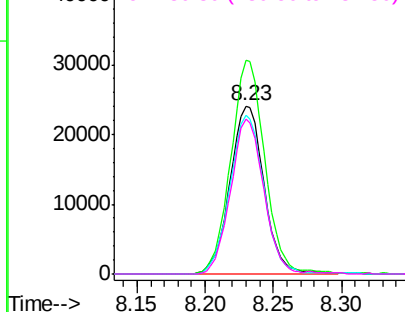
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

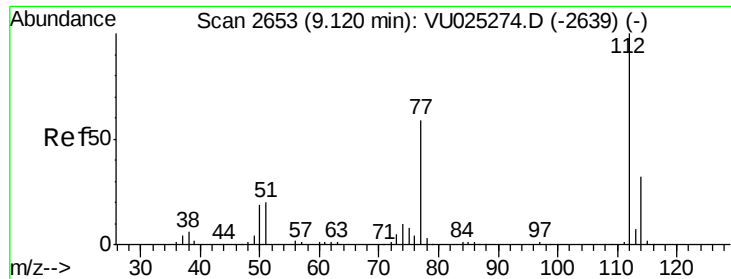


#64
Tetrachloroethene
Concen: 19.708 ug/l
RT: 8.23 min Scan# 2376
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.0	101.1	151.7
129	94.6	73.0	109.6
131	92.2	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





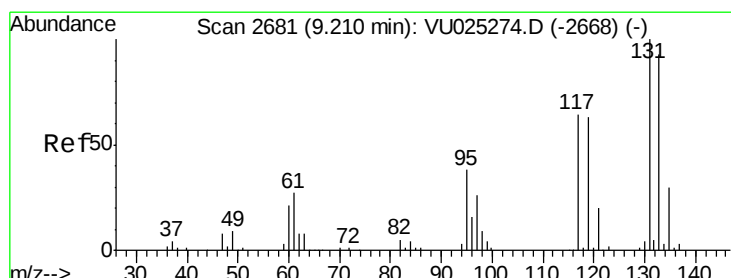
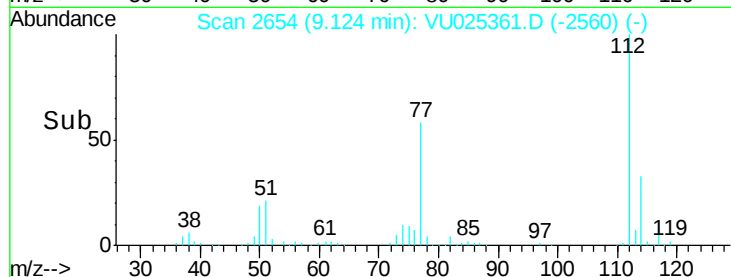
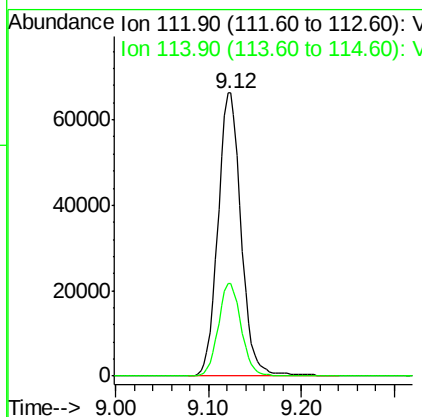
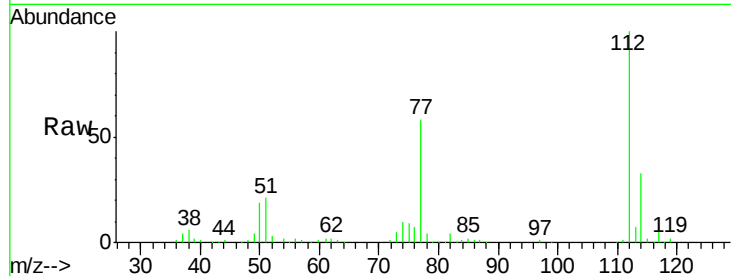
#65
Chlorobenzene
Concen: 19.782 ug/l
RT: 9.12 min Scan# 2654
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBS03

Tot Ion:112 Resp: 114678
Ion Ratio Lower Upper
112 100
114 32.8 25.8 38.8

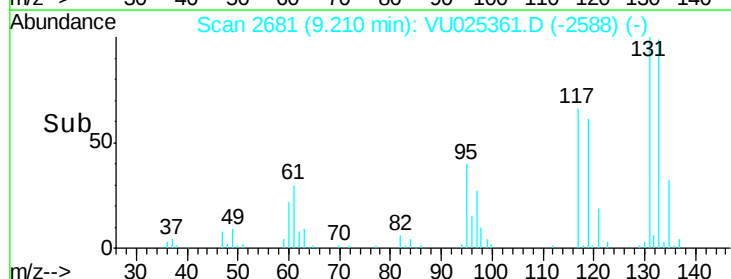
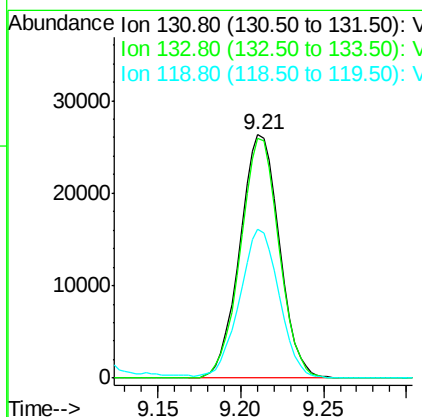
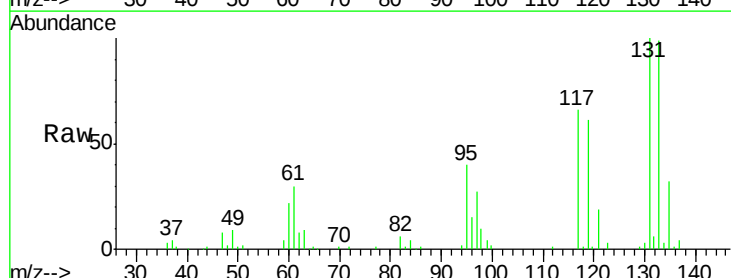
Manual Integrations
APPROVED

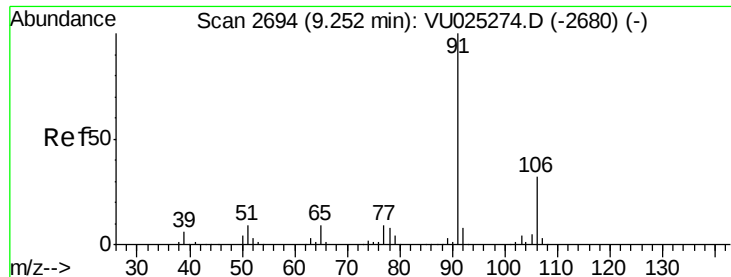
MMDadoda
7/13/2018 11:44:20 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 21.114 ug/l
RT: 9.21 min Scan# 2681
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Tgt Ion:131 Resp: 43784
Ion Ratio Lower Upper
131 100
133 95.8 47.8 143.3
119 61.3 31.6 95.0





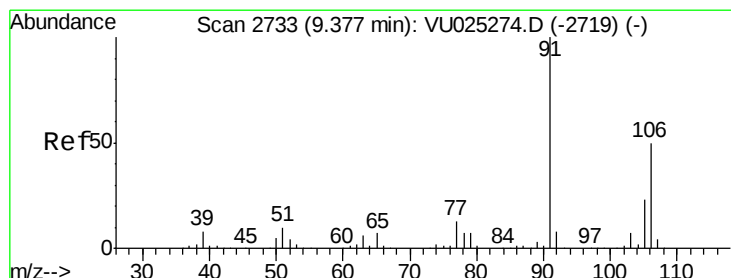
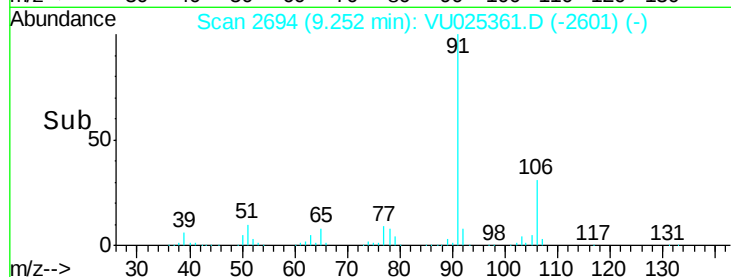
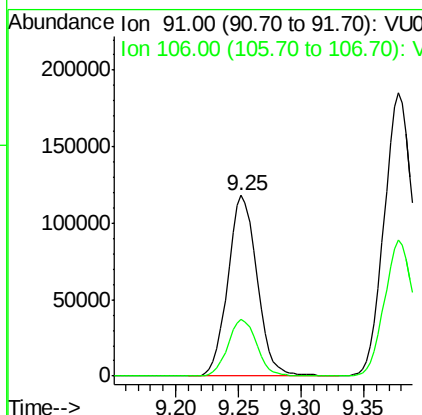
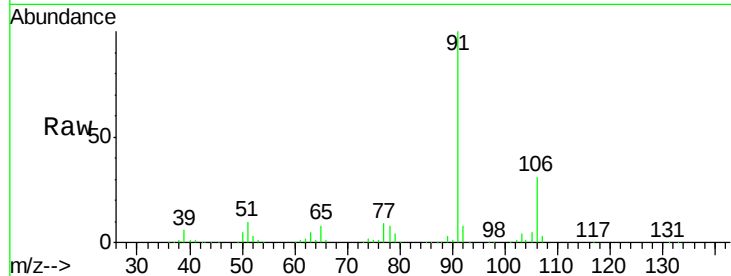
#67
Ethyl Benzene
Concen: 19.372 ug/l
RT: 9.25 min Scan# 2694
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBS03

Tot Ion: 91 Resp: 191458
Ion Ratio Lower Upper
91 100
106 31.2 25.3 37.9

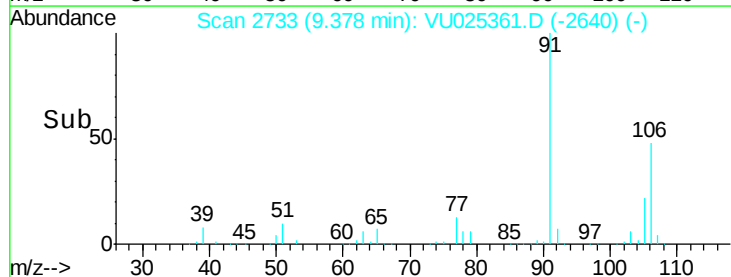
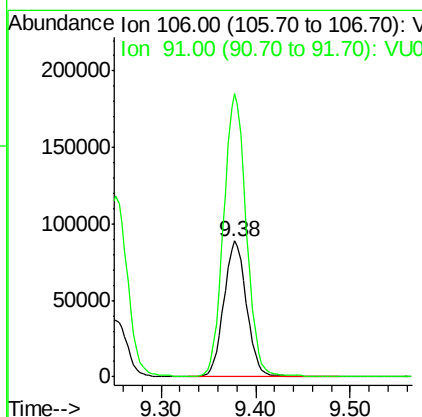
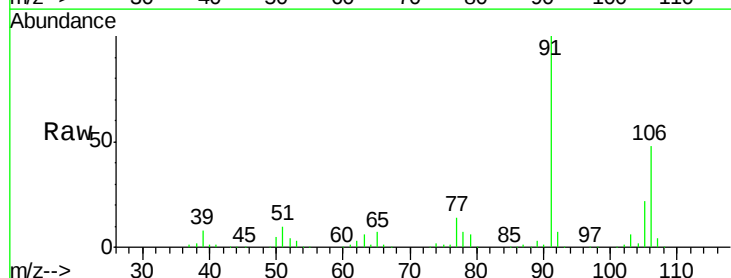
Manual Integrations
APPROVED

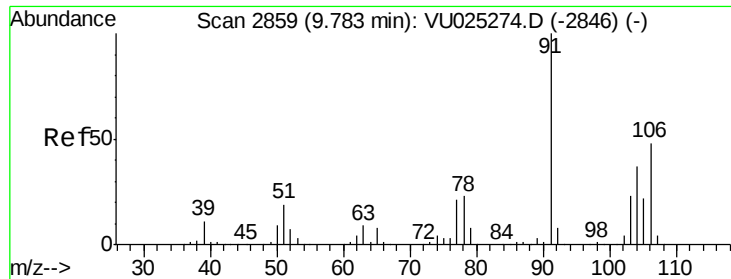
MMDadoda
7/13/2018 11:44:20 AM



#68
m/p-Xylenes
Concen: 38.960 ug/l
RT: 9.38 min Scan# 2733
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Tgt Ion: 106 Resp: 148862
Ion Ratio Lower Upper
106 100
91 207.9 162.3 243.5





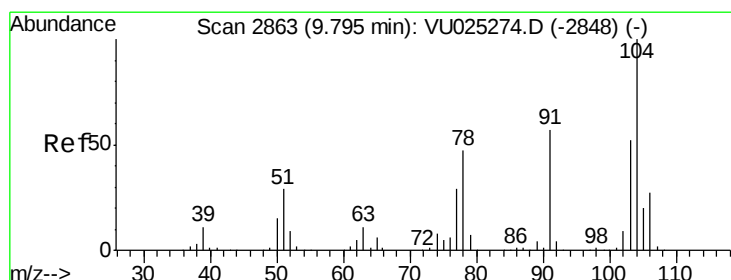
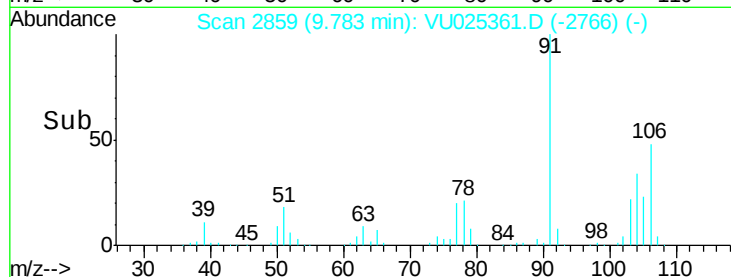
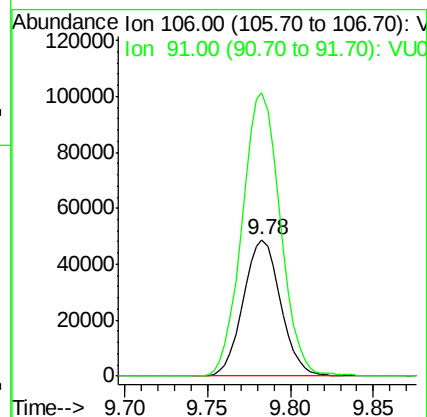
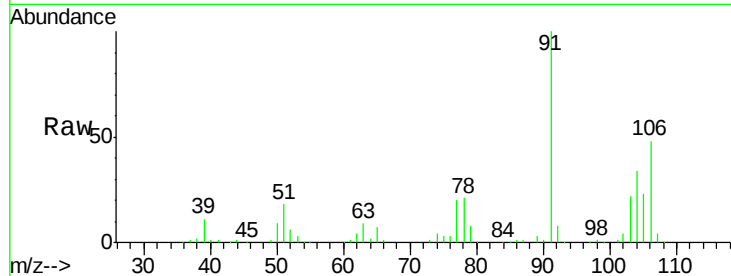
#69
o-Xylene
Concen: 19.956 ug/l
RT: 9.78 min Scan# 2859
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBS03

Tot Ion:106 Resp: 76339
Ion Ratio Lower Upper
106 100
91 213.3 105.3 315.8

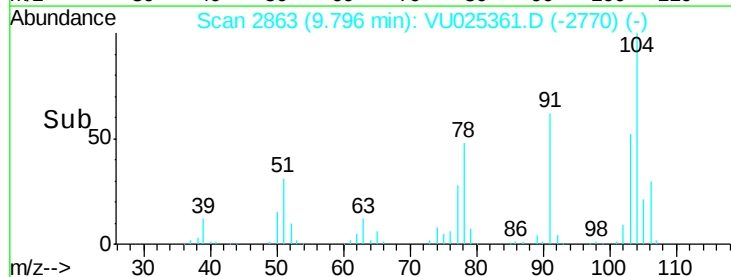
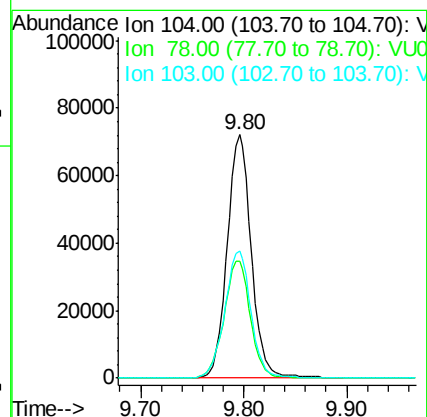
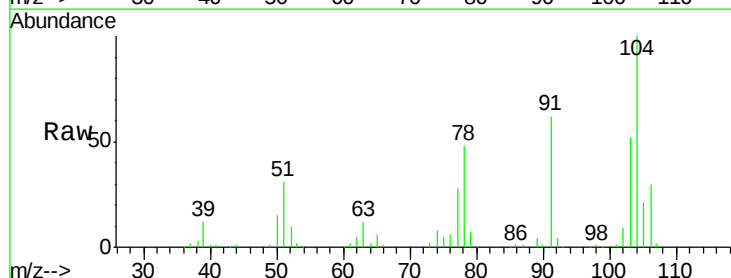
Manual Integrations
APPROVED

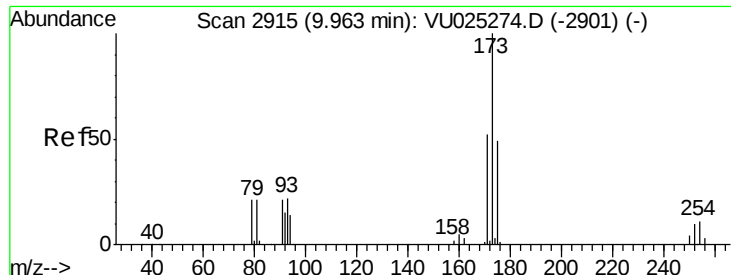
MMDadoda
7/13/2018 11:44:20 AM



#70
Styrene
Concen: 19.343 ug/l
RT: 9.80 min Scan# 2863
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Tgt Ion:104 Resp: 117534
Ion Ratio Lower Upper
104 100
78 52.6 41.6 62.4
103 56.6 44.6 66.8





#71

Bromoform

Concen: 19.570 ug/l

RT: 9.96 min Scan# 2914

Delta R.T. -0.00 min

Lab File: VU025361.D

Acq: 13 Jul 2018 00:49

Instrument :

MSVOA_U

ClientSampleId :

VU0712WBS03

Tot Ion:173 Resp: 33060

Ion Ratio Lower Upper

173 100

175 48.6 24.0 72.0

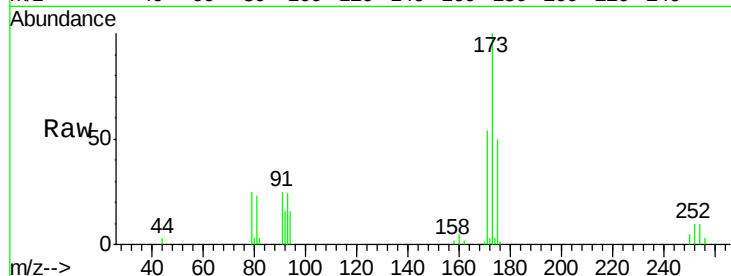
254 0.0 0.0 0.0

Manual Integrations

APPROVED

MMDadoda

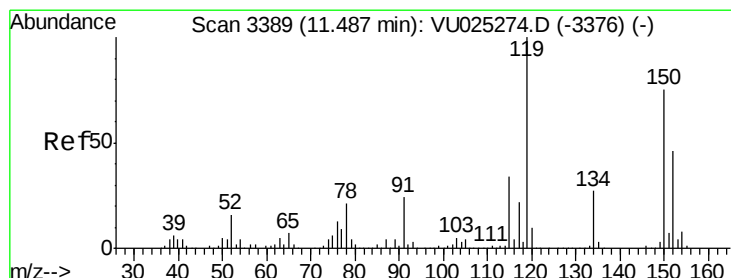
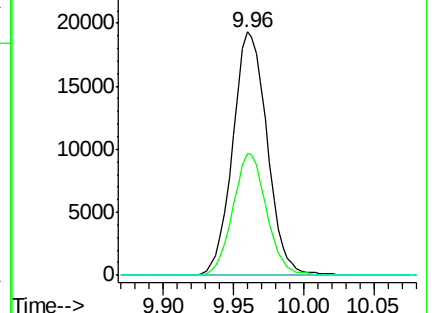
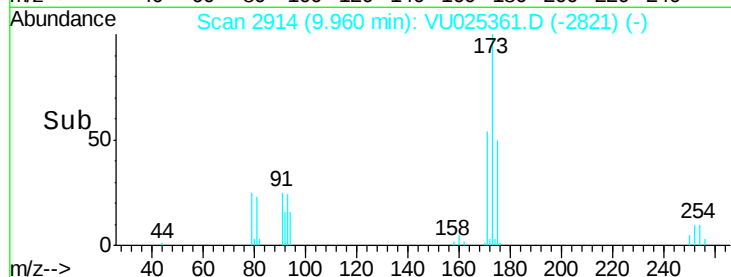
7/13/2018 11:44:20 AM



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: VU025361.D

Acq: 13 Jul 2018 00:49

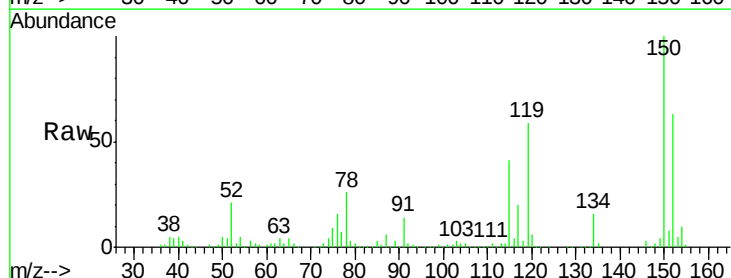
Tgt Ion:152 Resp: 131389

Ion Ratio Lower Upper

152 100

115 67.5 40.1 120.3

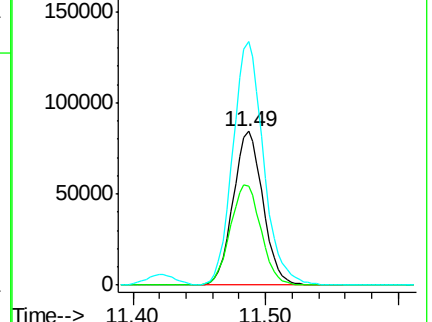
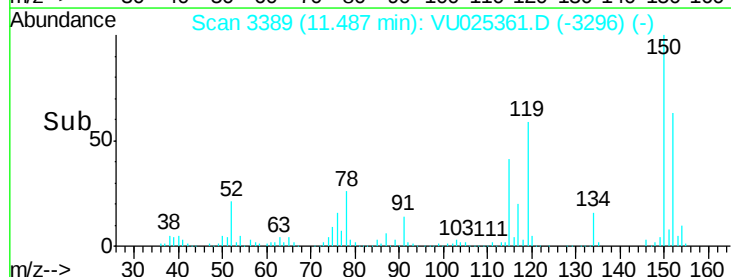
150 163.1 0.0 351.4



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: 20.229 ug/l

RT: 10.17 min Scan# 2979

Delta R.T. 0.00 min

Lab File: VU025361.D

Acq: 13 Jul 2018 00:49

Instrument :

MSVOA_U

ClientSampleId :

VU0712WBS03

Tot Ion: 105 Resp: 203080

Ion Ratio Lower Upper

105 100

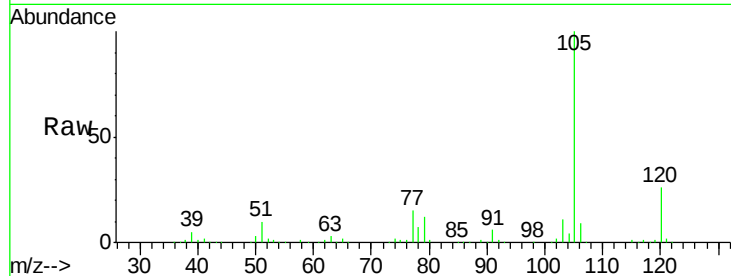
120 26.3 13.5 40.5

Manual Integrations

APPROVED

MMDadoda

7/13/2018 11:44:20 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

10.17

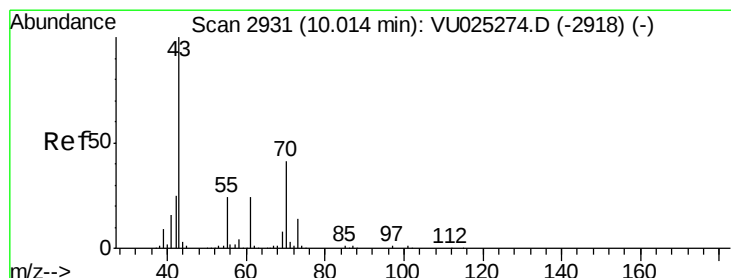
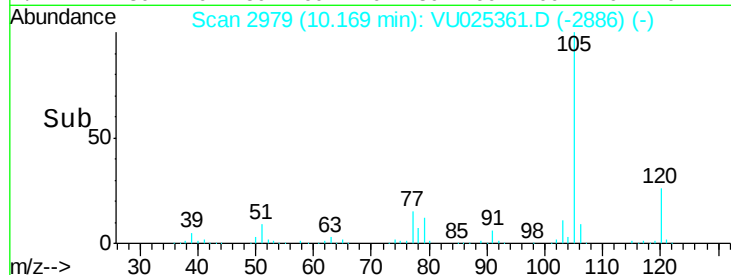
150000

100000

50000

0

Time-->



#74

N-ethyl acetate

Concen: 21.326 ug/l

RT: 10.01 min Scan# 2931

Delta R.T. 0.00 min

Lab File: VU025361.D

Acq: 13 Jul 2018 00:49

Tgt Ion: 43 Resp: 84563

Ion Ratio Lower Upper

43 100

70 41.7 33.4 50.2

55 24.1 19.0 28.6

61 23.6 19.3 28.9

Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

80000

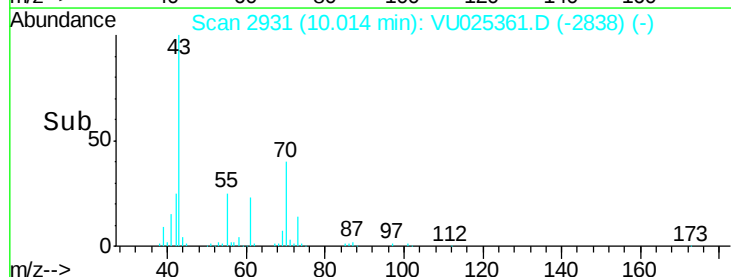
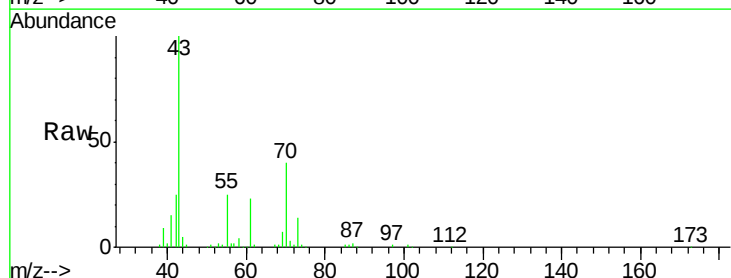
60000

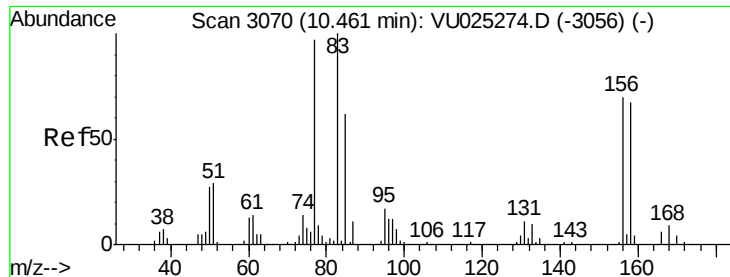
40000

20000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 20.818 ug/l

RT: 10.46 min Scan# 3070

Delta R.T. 0.00 min

Lab File: VU025361.D

Acq: 13 Jul 2018 00:49

Instrument :

MSVOA_U

ClientSampleId :

VU0712WBS03

Tot Ion: 83 Resp: 68374

Ion Ratio Lower Upper

83 100

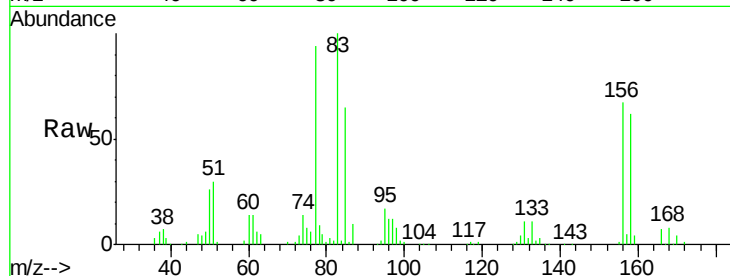
131 11.1 5.5 16.4

85 65.7 31.6 94.8

Manual Integrations
APPROVED

MMDadoda

7/13/2018 11:44:20 AM

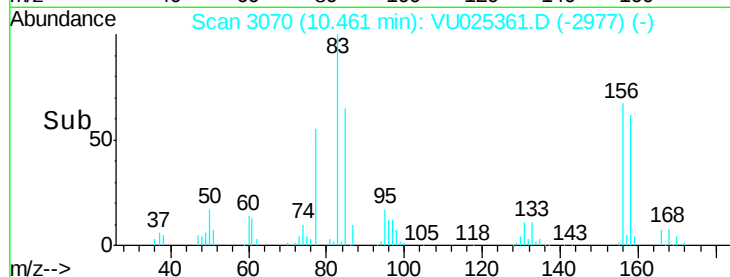


Abundance Ion 82.90 (82.60 to 83.60): VU025361.D (-2977) (-)

Ion 130.80 (130.50 to 131.50): VU025361.D (-2977) (-)

Ion 84.90 (84.60 to 85.60): VU025361.D (-2977) (-)

Time-->

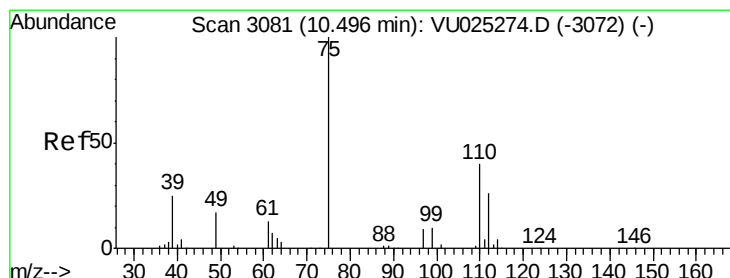


Abundance Ion 82.90 (82.60 to 83.60): VU025361.D (-2977) (-)

Ion 130.80 (130.50 to 131.50): VU025361.D (-2977) (-)

Ion 84.90 (84.60 to 85.60): VU025361.D (-2977) (-)

Time-->



#76

1,2,3-Trichloropropane

Concen: 23.184 ug/l m

RT: 10.50 min Scan# 3081

Delta R.T. 0.00 min

Lab File: VU025361.D

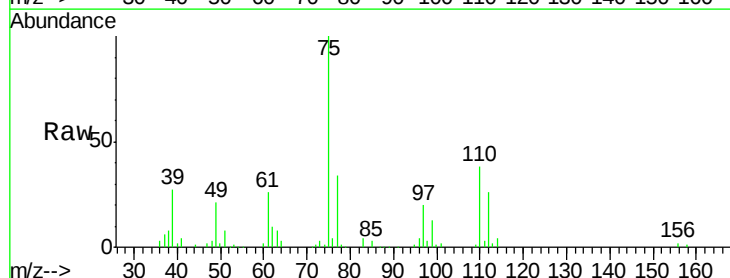
Acq: 13 Jul 2018 00:49

Tgt Ion: 75 Resp: 61567

Ion Ratio Lower Upper

75 100

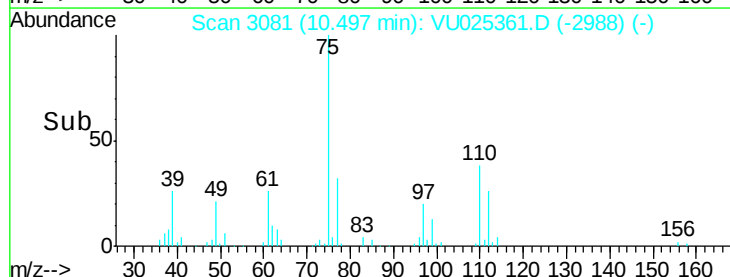
77 37.6 20.4 61.3



Abundance Ion 74.90 (74.60 to 75.60): VU025361.D (-2988) (-)

Ion 77.00 (76.70 to 77.70): VU025361.D (-2988) (-)

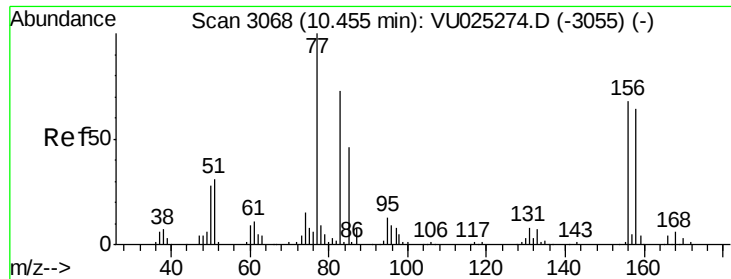
Time-->



Abundance Ion 74.90 (74.60 to 75.60): VU025361.D (-2988) (-)

Ion 77.00 (76.70 to 77.70): VU025361.D (-2988) (-)

Time-->



#77

Bromobenzene

Concen: 20.516 ug/l

RT: 10.45 min Scan# 3068

Delta R.T. 0.00 min

Lab File: VU025361.D

Acq: 13 Jul 2018 00:49

Instrument :

MSVOA_U

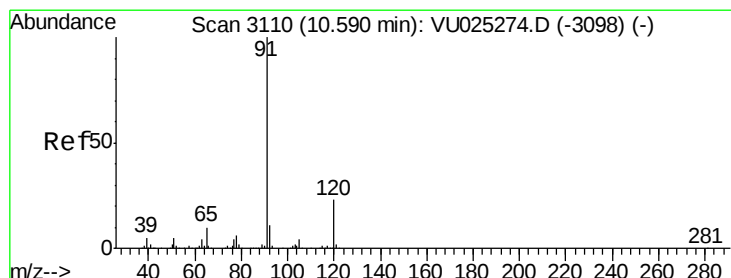
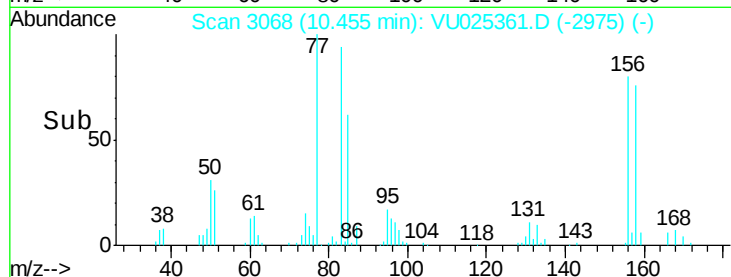
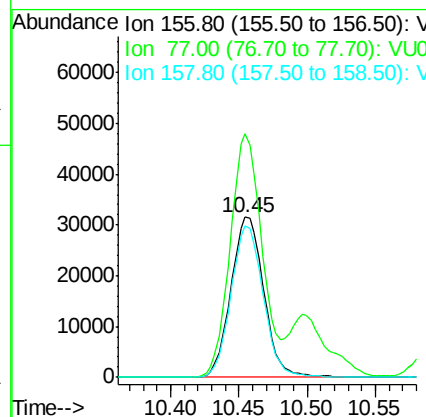
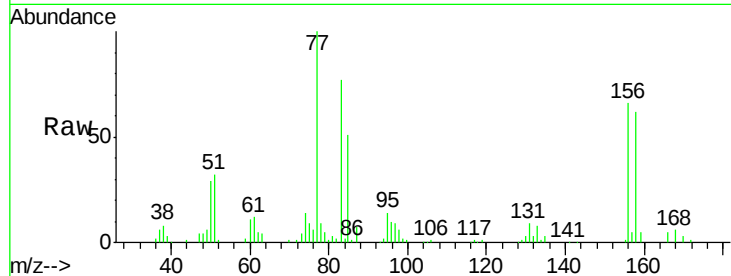
ClientSampleId :

VU0712WBS03

Tot Ion	156	Resp	52690
Ion Ratio	Lower	Upper	
156	100		
77	147.2	73.8	221.4
158	93.1	48.0	144.0

Manual Integrations
APPROVED

MMDadoda
7/13/2018 11:44:20 AM



#78

n-propylbenzene

Concen: 19.674 ug/l

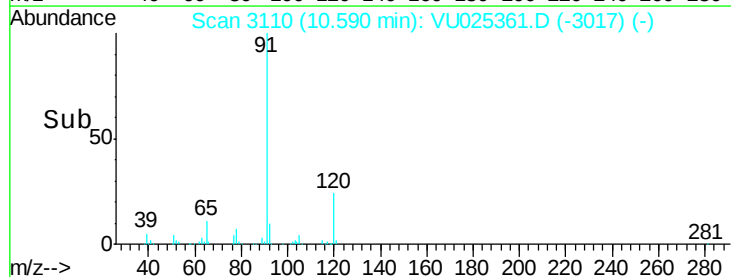
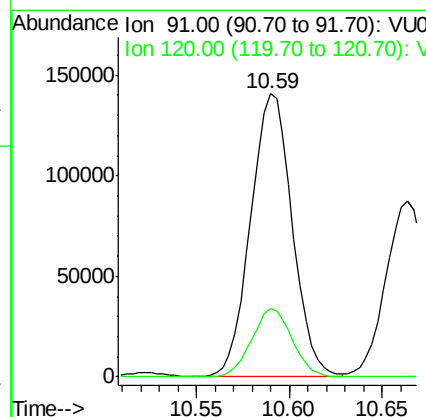
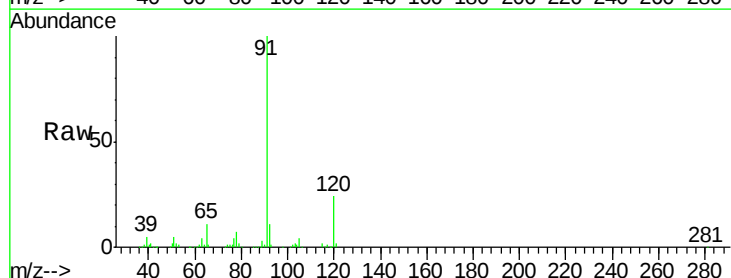
RT: 10.59 min Scan# 3110

Delta R.T. 0.00 min

Lab File: VU025361.D

Acq: 13 Jul 2018 00:49

Tgt Ion	91	Resp	219162
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
91	100		
120	23.7	11.8	35.3





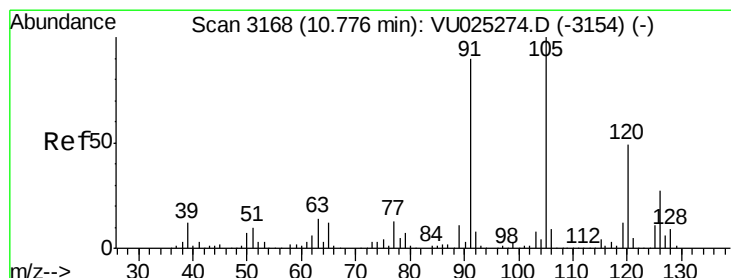
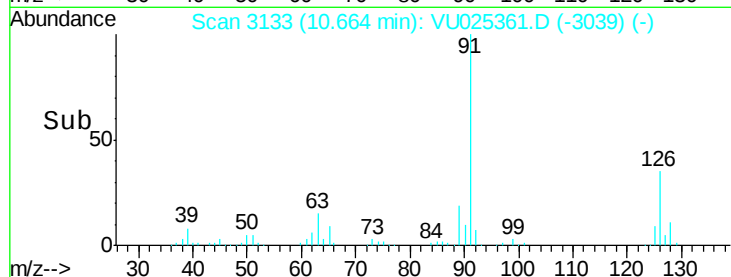
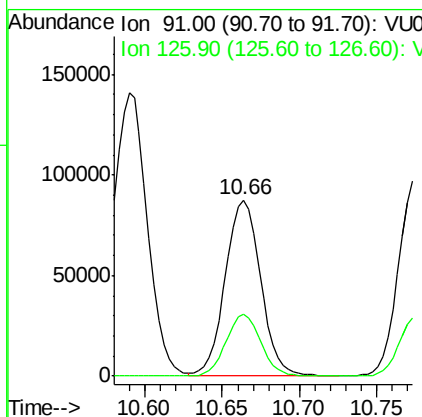
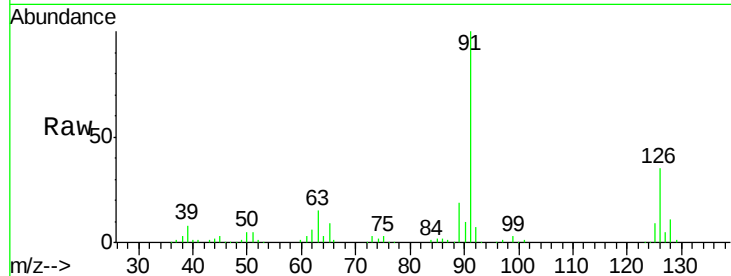
#79
 2-Chlorotoluene
 Concen: 21.776 ug/l
 RT: 10.66 min Scan# 3133
 Delta R.T. 0.00 min
 Lab File: VU025361.D
 Acq: 13 Jul 2018 00:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0712WBS03

Tot Ion: 91 Resp: 138760
 Ion Ratio Lower Upper
 91 100
 126 34.5 17.5 52.6

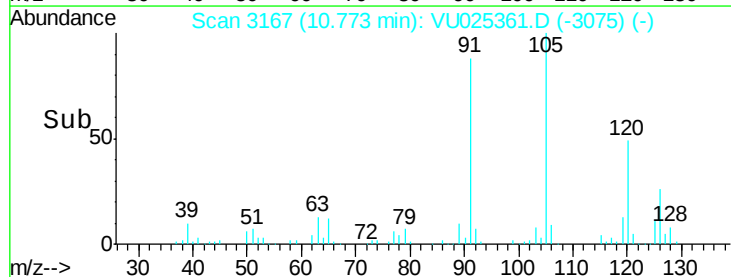
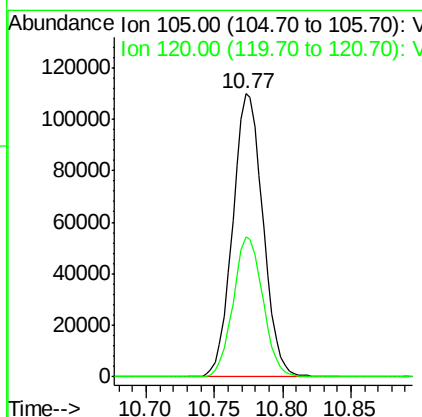
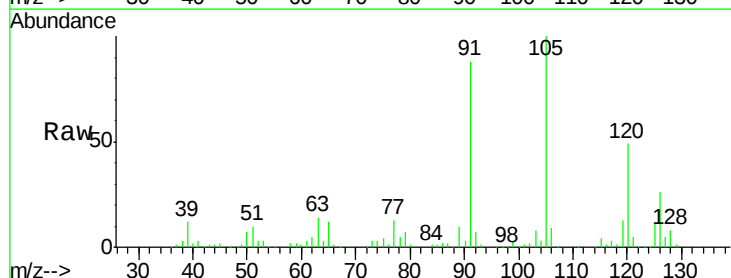
Manual Integrations
 APPROVED

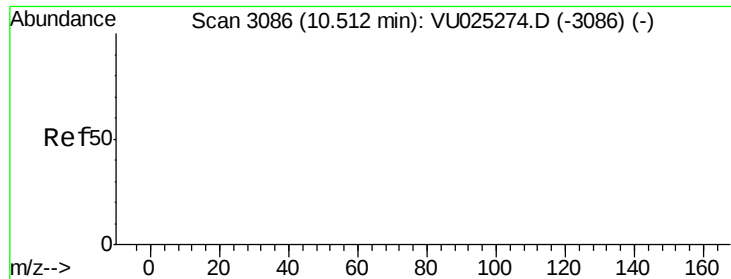
MMDadoda
 7/13/2018 11:44:20 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 20.047 ug/l
 RT: 10.77 min Scan# 3167
 Delta R.T. -0.00 min
 Lab File: VU025361.D
 Acq: 13 Jul 2018 00:49

Tgt Ion: 105 Resp: 169339
 Ion Ratio Lower Upper
 105 100
 120 48.6 24.1 72.2





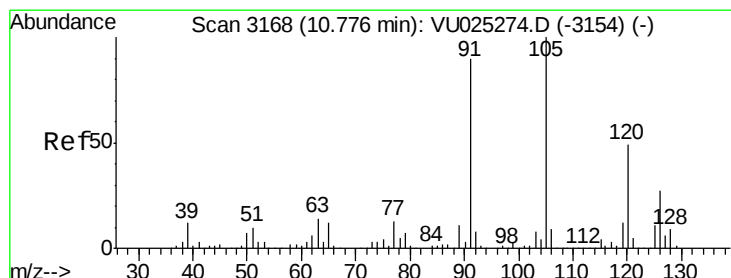
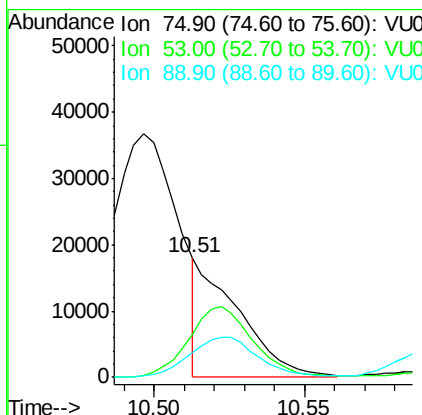
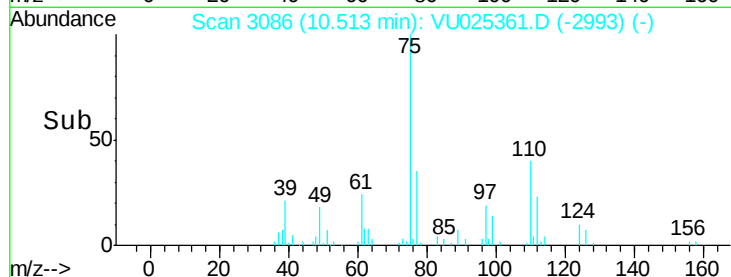
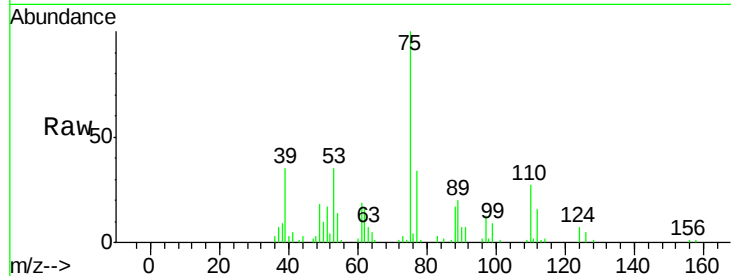
#81
trans-1,4-Dichloro-2-butene
Concen: 16.474 ug/l m
RT: 10.51 min Scan# 3086
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Instrument :
MSVOA_U
ClientSampleId :
VU0712WBS03

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

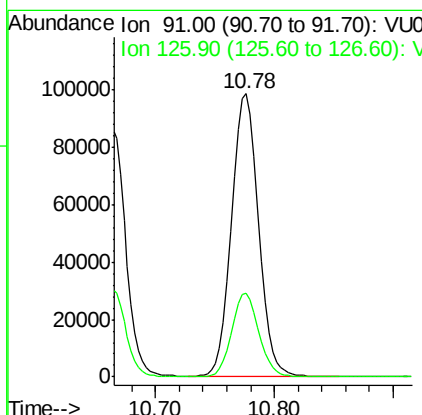
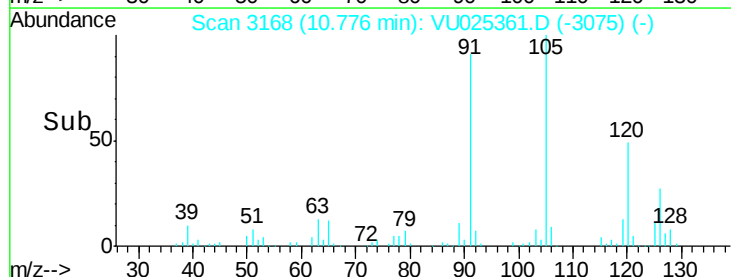
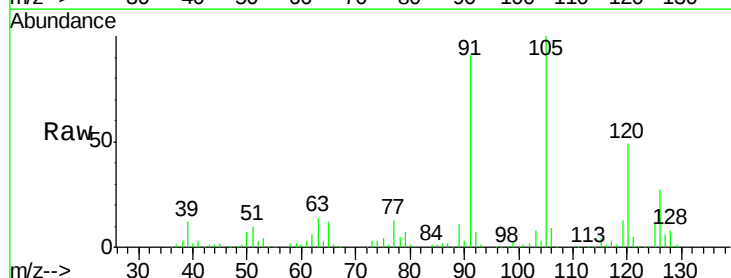
Manual Integrations
APPROVED

MMDadoda
7/13/2018 11:44:20 AM



#82
4-Chlorotoluene
Concen: 19.789 ug/l
RT: 10.78 min Scan# 3168
Delta R.T. 0.00 min
Lab File: VU025361.D
Acq: 13 Jul 2018 00:49

Tgt Ion	Ratio	Lower	Upper
91	100		
126	29.6	15.3	45.9





#83

tert-Butylbenzene

Concen: 20.149 ug/l

RT: 11.10 min Scan# 3270

Delta R.T. 0.00 min

Lab File: VU025361.D

Acq: 13 Jul 2018 00:49

Instrument :

MSVOA_U

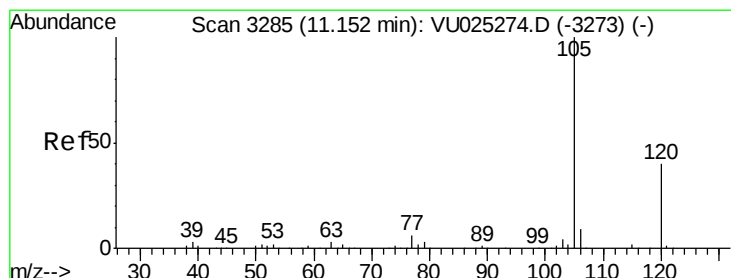
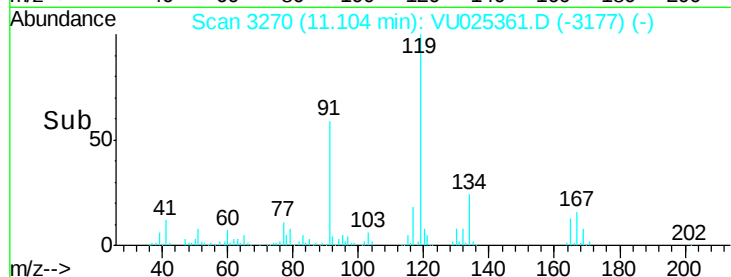
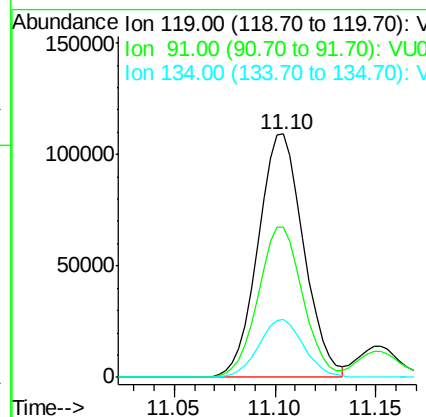
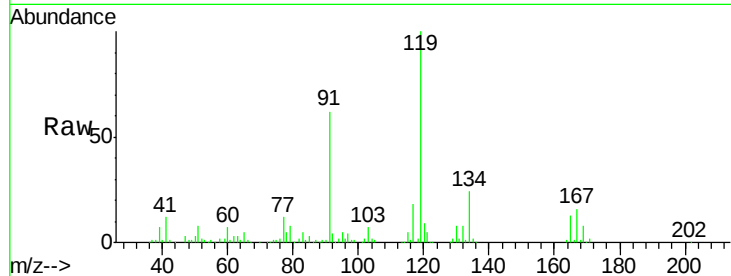
ClientSampleId :

VU0712WBS03

Tot Ion:	119	Resp:	171991
Ion Ratio	Lower	Upper	
119	100		
91	60.7	29.7	89.1
134	23.5	11.5	34.5

Manual Integrations
APPROVED

MMDadoda
7/13/2018 11:44:20 AM



#84

1,2,4-Trimethylbenzene

Concen: 19.584 ug/l

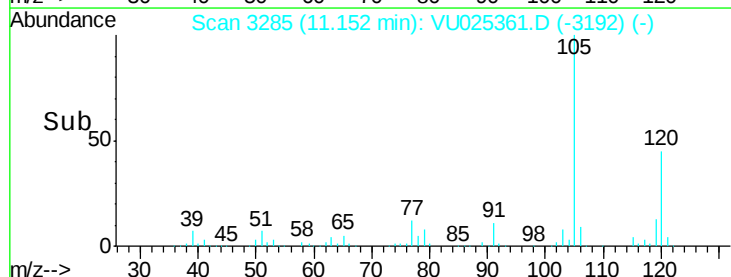
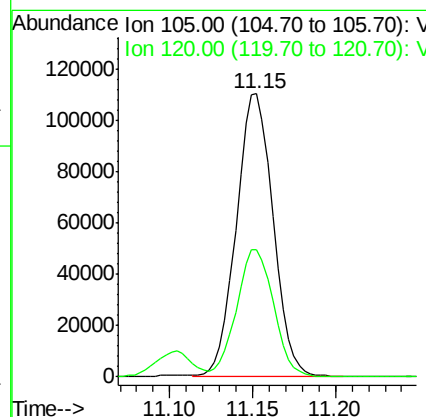
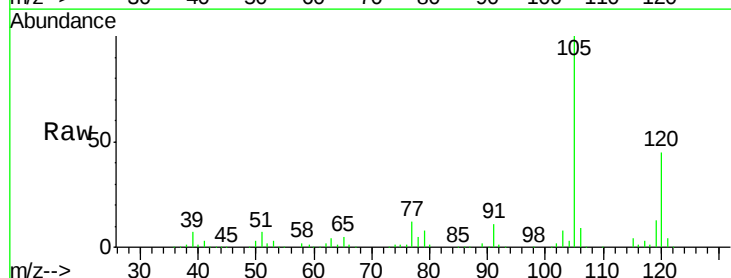
RT: 11.15 min Scan# 3285

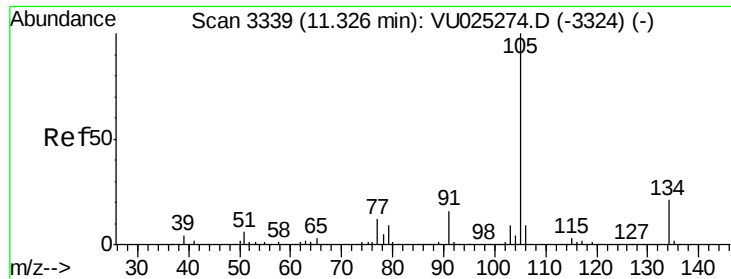
Delta R.T. 0.00 min

Lab File: VU025361.D

Acq: 13 Jul 2018 00:49

Tgt Ion:	105	Resp:	169542
Ion Ratio	Lower	Upper	
105	100		
120	45.6	22.3	66.8





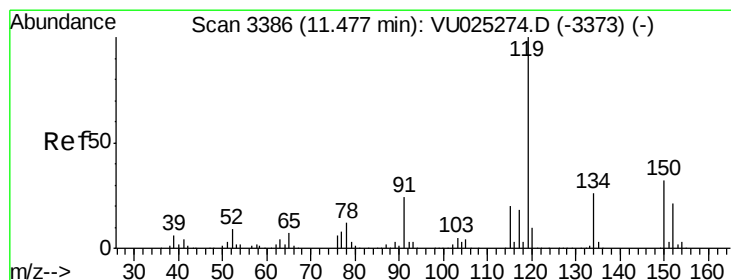
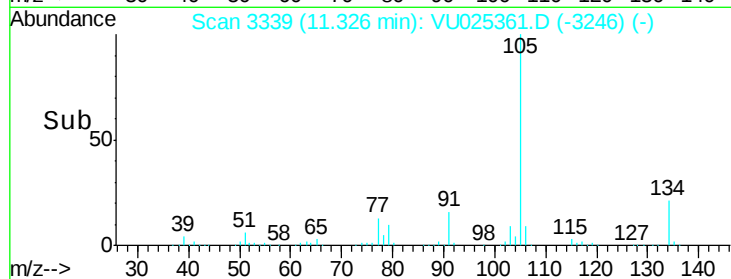
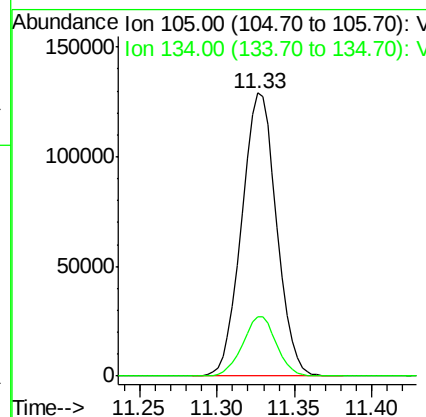
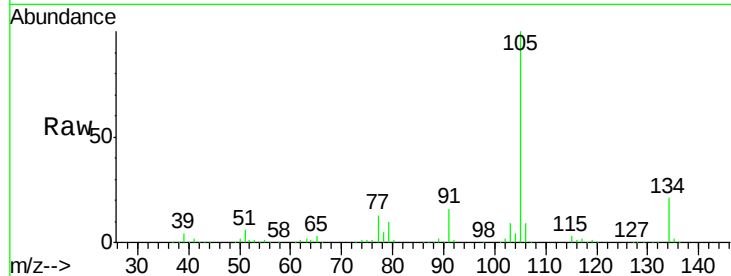
#85
 sec-Butylbenzene
 Concen: 20.073 ug/l
 RT: 11.33 min Scan# 3339
 Delta R.T. 0.00 min
 Lab File: VU025361.D
 Acq: 13 Jul 2018 00:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0712WBS03

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.4	10.3	30.8

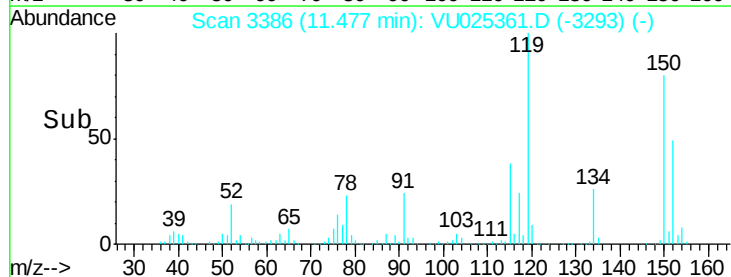
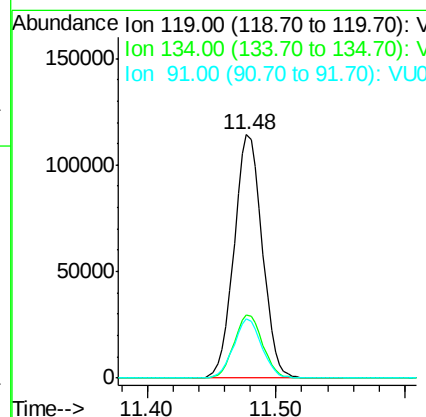
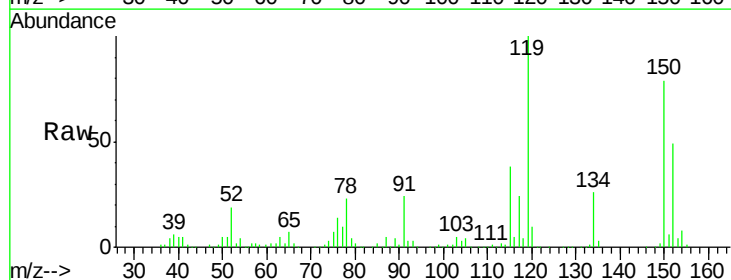
Manual Integrations
 APPROVED

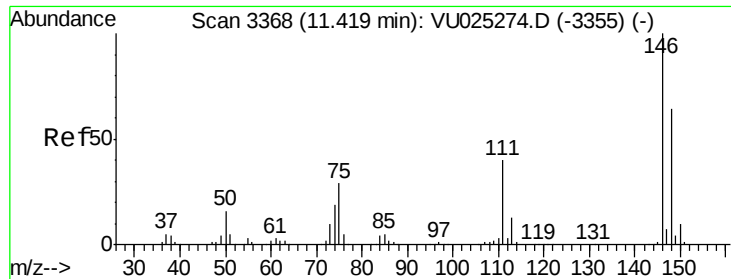
MMDadoda
 7/13/2018 11:44:20 AM



#86
 p-Isopropyltoluene
 Concen: 19.370 ug/l
 RT: 11.48 min Scan# 3386
 Delta R.T. 0.00 min
 Lab File: VU025361.D
 Acq: 13 Jul 2018 00:49

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.4	13.2	39.5
91	24.2	12.0	36.1





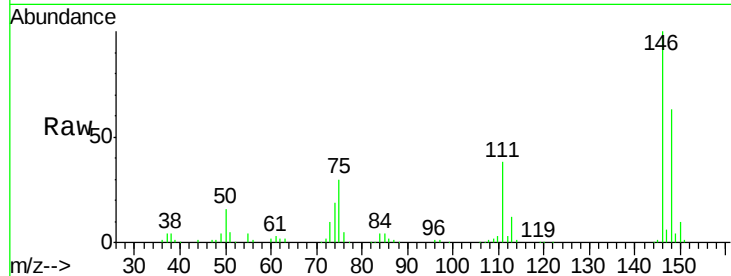
#87
 1,3-Dichlorobenzene
 Concen: 19.334 ug/l
 RT: 11.42 min Scan# 3368
 Delta R.T. 0.00 min
 Lab File: VU025361.D
 Acq: 13 Jul 2018 00:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0712WBS03

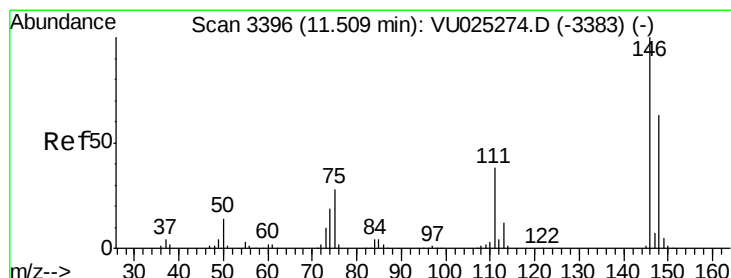
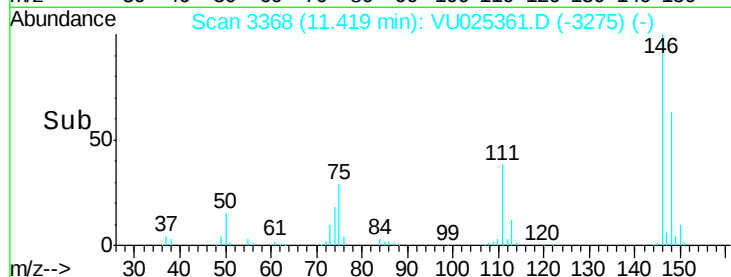
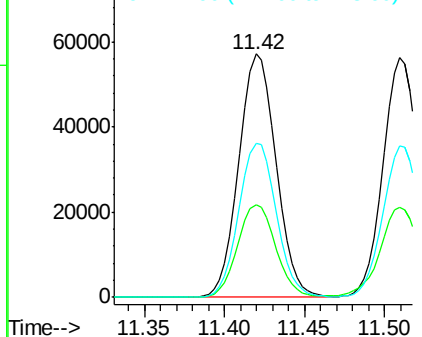
Tot Ion	Ratio	Lower	Upper
146	100		
111	39.0	19.7	59.1
148	63.8	32.1	96.3

Manual Integrations
 APPROVED

MMDadoda
 7/13/2018 11:44:20 AM



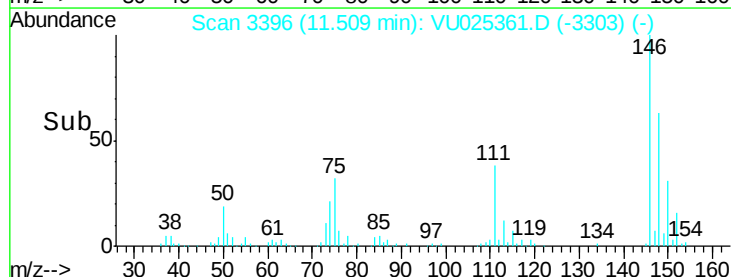
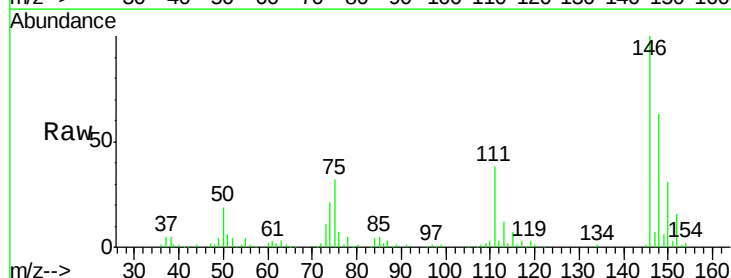
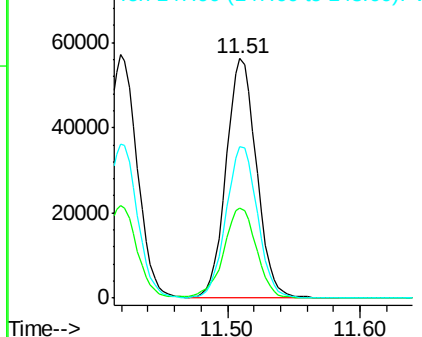
Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

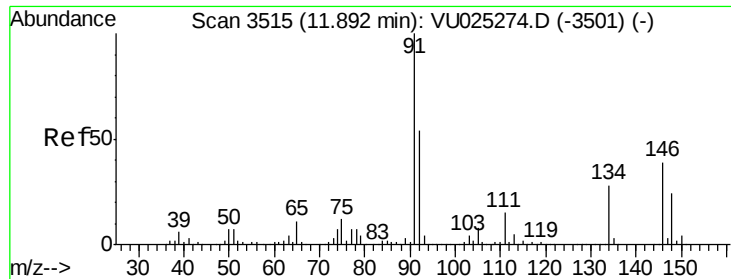


#88
 1,4-Dichlorobenzene
 Concen: 20.451 ug/l
 RT: 11.51 min Scan# 3396
 Delta R.T. 0.00 min
 Lab File: VU025361.D
 Acq: 13 Jul 2018 00:49

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.7	19.4	58.1
148	65.6	31.7	95.1

Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 17.861 ug/l

RT: 11.89 min Scan# 3515

Delta R.T. 0.00 min

Lab File: VU025361.D

Acq: 13 Jul 2018 00:49

Instrument :

MSVOA_U

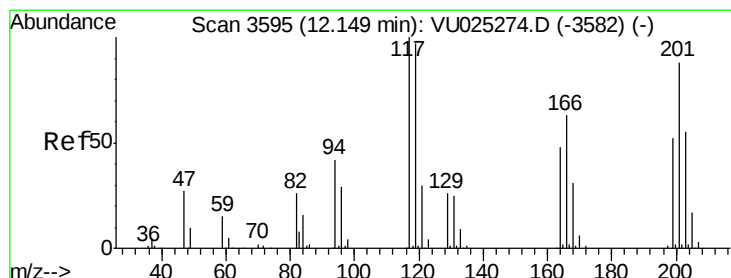
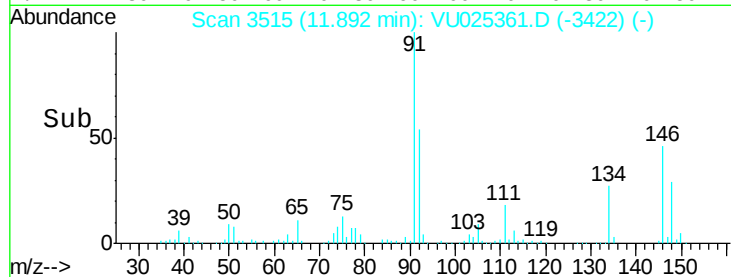
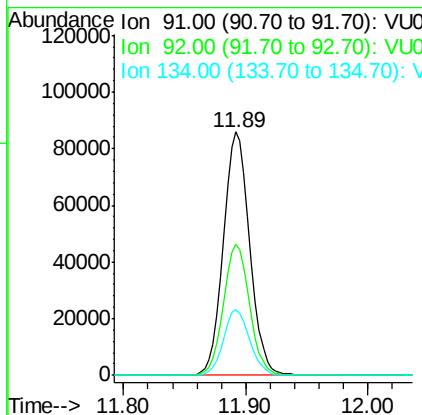
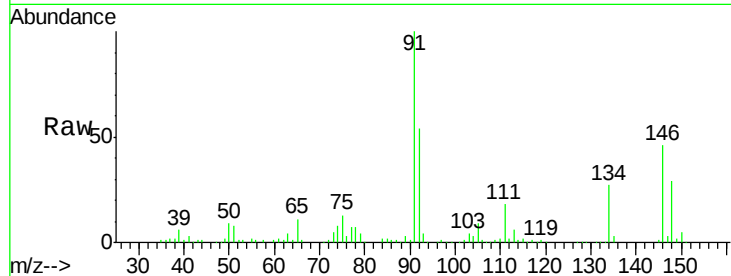
ClientSampleId :

VU0712WBS03

Tot Ion:	91	Resp:	130668
Ion Ratio	Lower	Upper	
91	100		
92	53.1	26.5	79.5
134	26.8	13.6	40.7

Manual Integrations
APPROVED

MMDadoda
7/13/2018 11:44:20 AM



#90

Hexachloroethane

Concen: 18.590 ug/l

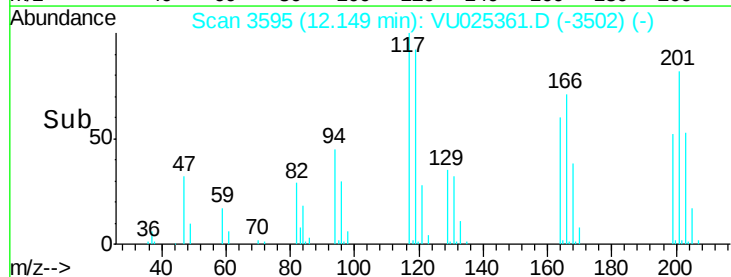
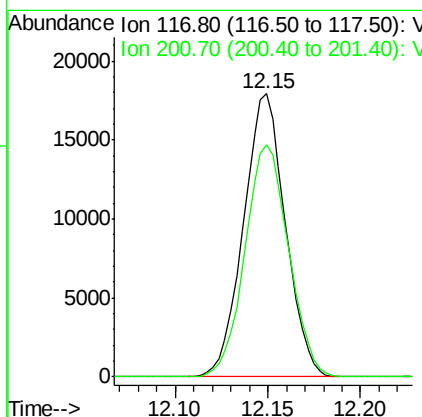
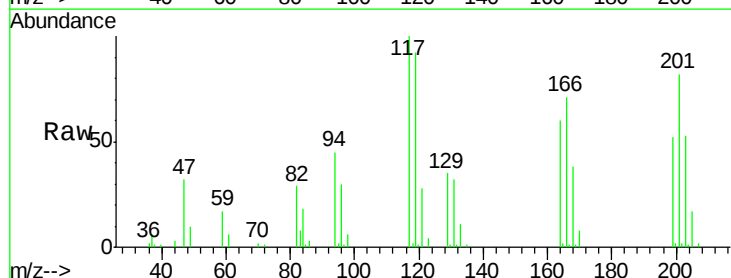
RT: 12.15 min Scan# 3595

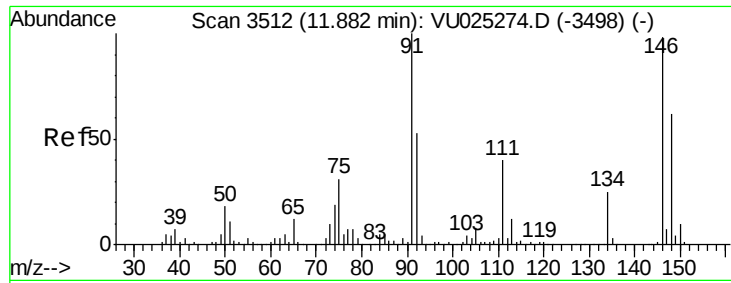
Delta R.T. 0.00 min

Lab File: VU025361.D

Acq: 13 Jul 2018 00:49

Tgt Ion:	117	Resp:	28014
Ion Ratio	Lower	Upper	
117	100		
201	85.4	42.5	127.6





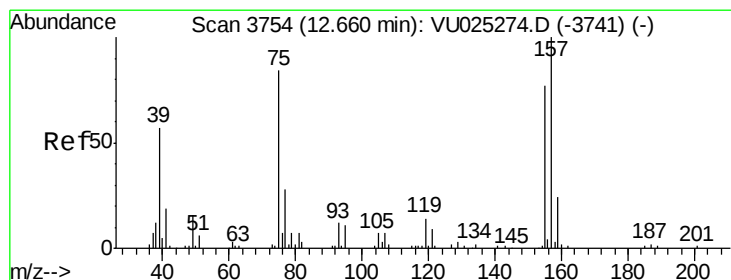
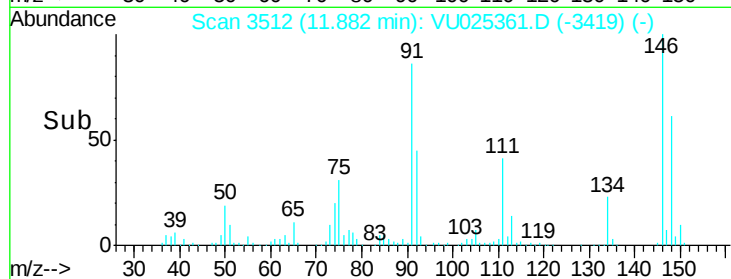
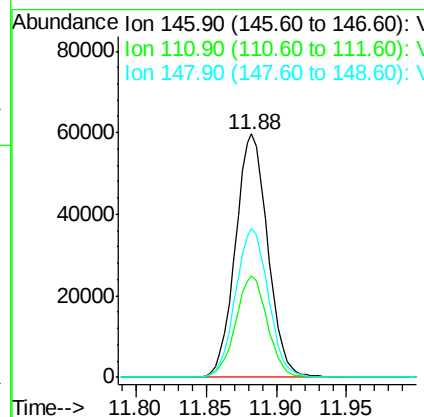
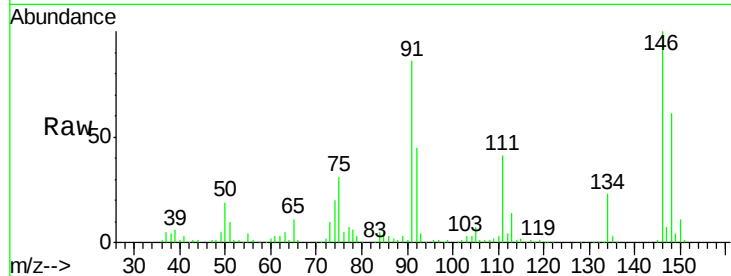
#91
 1,2-Dichlorobenzene
 Concen: 20.209 ug/l
 RT: 11.88 min Scan# 3512
 Delta R.T. 0.00 min
 Lab File: VU025361.D
 Acq: 13 Jul 2018 00:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0712WBS03

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.6	61.8
148	61.8	31.5	94.5

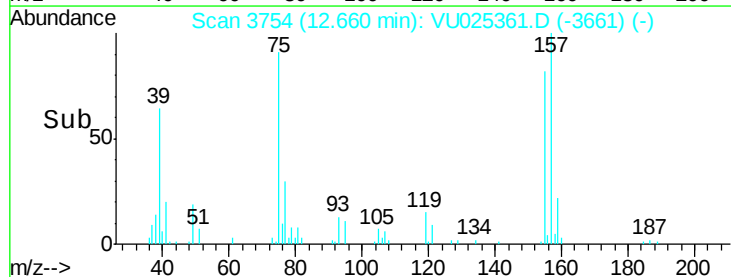
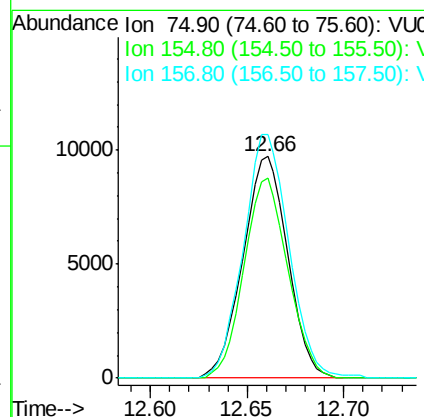
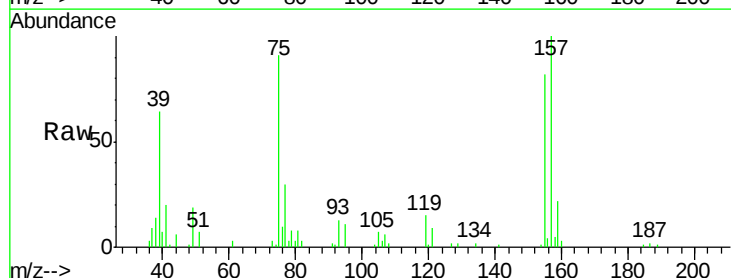
Manual Integrations
 APPROVED

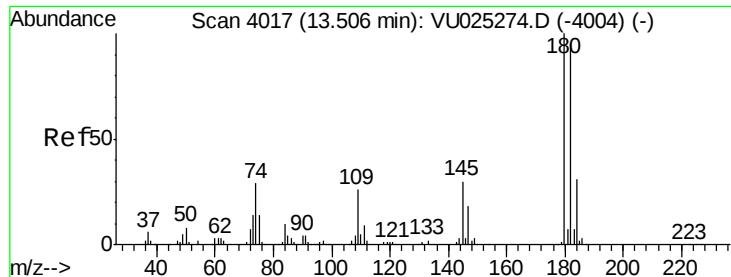
MMDadoda
 7/13/2018 11:44:20 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.645 ug/l
 RT: 12.66 min Scan# 3754
 Delta R.T. 0.00 min
 Lab File: VU025361.D
 Acq: 13 Jul 2018 00:49

Tgt Ion	Ratio	Lower	Upper
75	100		
155	88.2	44.5	133.3
157	112.2	57.0	170.8





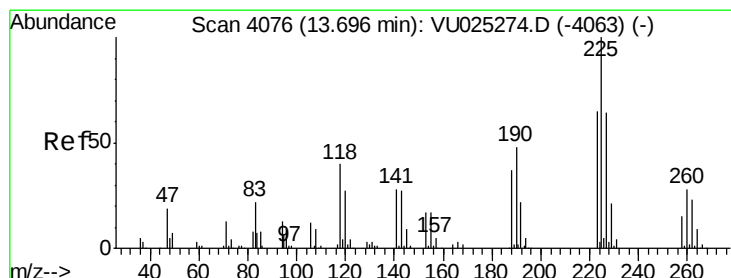
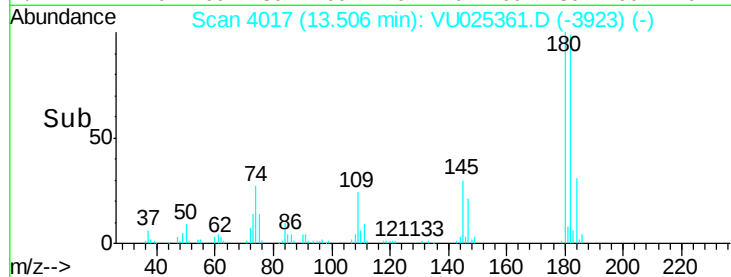
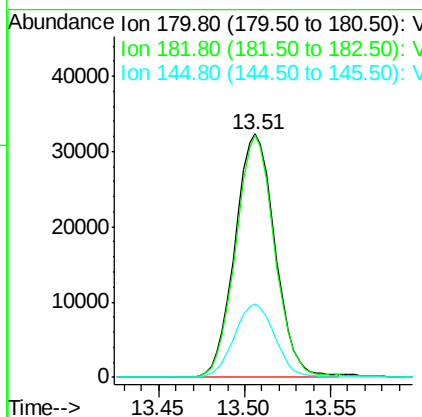
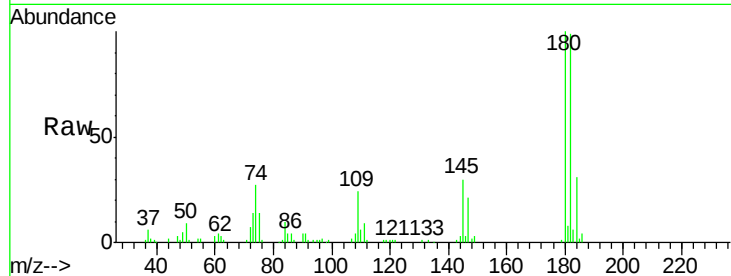
#93
 1,2,4-Trichlorobenzene
 Concen: 18.663 ug/l
 RT: 13.51 min Scan# 4017
 Delta R.T. 0.00 min
 Lab File: VU025361.D
 Acq: 13 Jul 2018 00:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0712WBS03

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.5	47.3	141.9
145	30.4	14.9	44.7

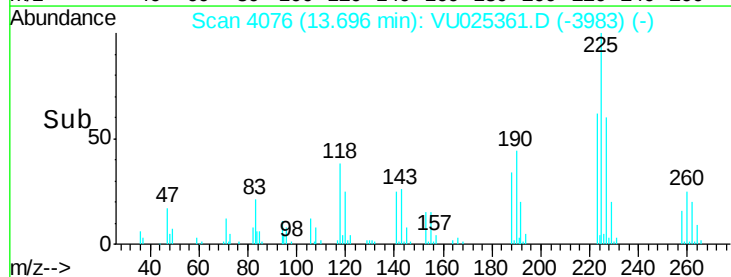
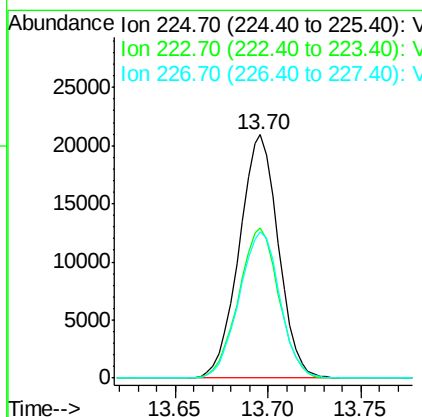
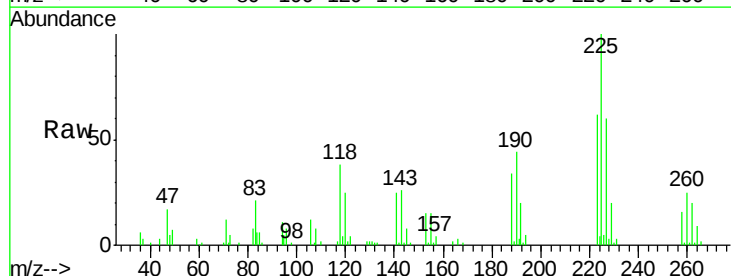
Manual Integrations
 APPROVED

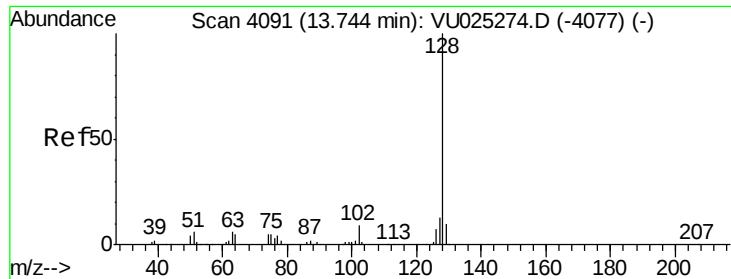
MMDadoda
 7/13/2018 11:44:20 AM



#94
 Hexachlorobutadiene
 Concen: 18.139 ug/l
 RT: 13.70 min Scan# 4076
 Delta R.T. 0.00 min
 Lab File: VU025361.D
 Acq: 13 Jul 2018 00:49

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.3	31.9	95.7
227	62.5	32.3	96.9





#95

Naphthalene

Concen: 18.859 ug/l

RT: 13.74 min Scan# 4091

Delta R.T. 0.00 min

Lab File: VU025361.D

Acq: 13 Jul 2018 00:49

Instrument :

MSVOA_U

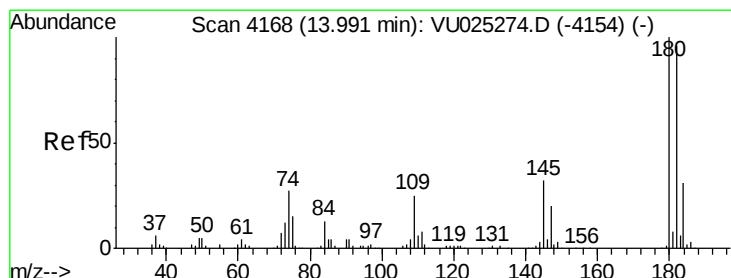
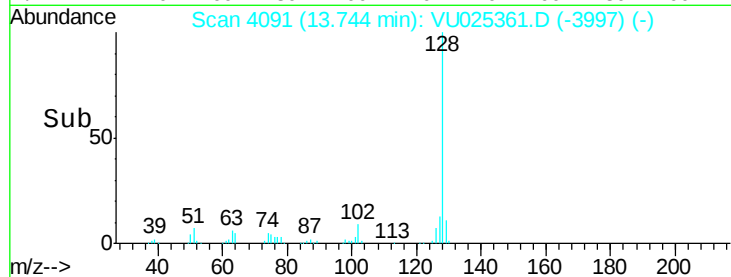
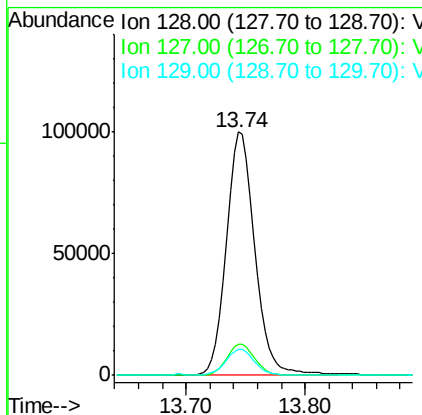
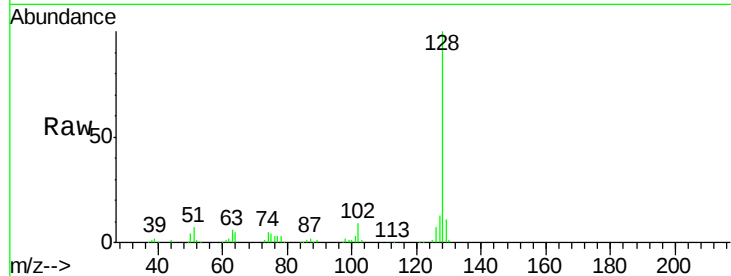
ClientSampleId :

VU0712WBS03

Tot Ion:	128	Resp:	166702
Ion Ratio	Lower	Upper	
128	100		
127	12.6	10.5	15.7
129	10.4	8.3	12.5

Manual Integrations
APPROVED

MMDadoda
7/13/2018 11:44:20 AM



#96

1,2,3-Trichlorobenzene

Concen: 19.086 ug/l

RT: 13.99 min Scan# 4168

Delta R.T. 0.00 min

Lab File: VU025361.D

Acq: 13 Jul 2018 00:49

Tgt Ion:	180	Resp:	56201
Ion Ratio	Lower	Upper	
180	100		
182	94.9	47.8	143.3
145	32.4	15.6	46.8

