

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU061318\
 Data File : VU024501.D
 Acq On : 13 Jun 2018 12:19
 Operator : MD/SY
 Sample : VSTDIC020
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 6/14/2018 9:44:27 AM

Quant Time: Jun 13 13:13:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 13 13:03:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	198881	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	311978	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	294986	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	169294	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	65695	16.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	33.36%	
35) Dibromofluoromethane	4.89	113	51947	16.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	32.42%	
50) Toluene-d8	7.57	98	190597	15.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	31.84%	
62) 4-Bromofluorobenzene	10.31	95	73533	16.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	33.70%	

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.21	85	48875	16.213	ug/l	99
3) Chloromethane	1.33	50	49358	14.052	ug/l	100
4) Vinyl Chloride	1.41	62	50179	12.832	ug/l	95
5) Bromomethane	1.63	94	25539	11.885	ug/l	99
6) Chloroethane	1.70	64	29694	11.226	ug/l	97
7) Trichlorofluoromethane	1.89	101	78541	14.791	ug/l	98
8) Diethyl Ether	2.10	74	29140	13.726	ug/l	85
9) 1,1,2-Trichlorotrifluoroet	2.29	101	47123	15.942	ug/l	97
10) Methyl Iodide	2.41	142	31101	16.595	ug/l	99
11) Tert butyl alcohol	2.82	59	81691	109.204	ug/l	97
12) 1,1-Dichloroethene	2.29	96	45154	16.307	ug/l	95
13) Acrolein	2.20	56	41132	52.822	ug/l	98
14) Allyl chloride	2.60	41	81886	17.430	ug/l	97
15) Acrylonitrile	2.94	53	158616	79.388	ug/l	99
16) Acetone	2.32	43	173681	69.087	ug/l	98
17) Carbon Disulfide	2.48	76	142299	16.703	ug/l	99
18) Methyl Acetate	2.62	43	74594	14.931	ug/l	96
19) Methyl tert-butyl Ether	3.00	73	168057	19.313	ug/l	96
20) Methylene Chloride	2.71	84	52077	15.075	ug/l	98
21) trans-1,2-Dichloroethene	2.99	96	49275	16.584	ug/l	96
22) Diisopropyl ether	3.58	45	167772	17.723	ug/l	92
23) Vinyl Acetate	3.53	43	744862	107.064	ug/l	99
24) 1,1-Dichloroethane	3.45	63	96159	16.224	ug/l	99
25) 2-Butanone	4.26	43	243329	80.943	ug/l	97
26) 2,2-Dichloropropane	4.23	77	89129	19.725	ug/l	99
27) cis-1,2-Dichloroethene	4.23	96	55976	17.338	ug/l	98
28) Bromochloromethane	4.55	49	44282	20.402	ug/l	92
29) Tetrahydrofuran	4.64	42	148142	86.355	ug/l	97
30) Chloroform	4.68	83	95215	15.856	ug/l	98
31) Cyclohexane	5.00	56	90422	15.384	ug/l	97
32) 1,1,1-Trichloroethane	4.92	97	88187	18.259	ug/l	96
36) 1,1-Dichloropropene	5.14	75	70987	15.944	ug/l	96
37) Ethyl Acetate	4.38	43	85268	17.082	ug/l #	97
38) Carbon Tetrachloride	5.14	117	79289	18.702	ug/l	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU061318\
 Data File : VU024501.D
 Acq On : 13 Jun 2018 12:19
 Operator : MD/SY
 Sample : VSTDIC020
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 6/14/2018 9:44:27 AM

Quant Time: Jun 13 13:13:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 13 13:03:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.42	83	88970	18.496	ug/l	96
40) Benzene	5.39	78	206838	15.413	ug/l	100
41) Methacrylonitrile	4.55	41	46278	16.542	ug/l	98
42) 1,2-Dichloroethane	5.41	62	78799	15.332	ug/l	99
43) Isopropyl Acetate	5.55	43	138322	18.194	ug/l	98
44) Trichloroethene	6.19	130	57825	16.538	ug/l	94
45) 1,2-Dichloropropane	6.44	63	55715	15.448	ug/l	97
46) Dibromomethane	6.56	93	39006	16.337	ug/l	97
47) Bromodichloromethane	6.76	83	76999	16.668	ug/l	99
48) Methyl methacrylate	6.63	41	67277	18.051	ug/l	99
49) 1,4-Dioxane	6.62	88	27728	352.644	ug/l	97
51) 4-Methyl-2-Pentanone	7.46	43	441909	80.567	ug/l	99
52) Toluene	7.64	92	128763	16.168	ug/l	98
53) t-1,3-Dichloropropene	7.88	75	86038	17.910	ug/l	99
54) cis-1,3-Dichloropropene	7.27	75	90260	17.220	ug/l	97
55) 1,1,2-Trichloroethane	8.07	97	51267	15.005	ug/l	98
56) Ethyl methacrylate	8.02	69	91343	20.513	ug/l	98
57) 1,3-Dichloropropane	8.25	76	90111	15.358	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.13	63	163279	71.296	ug/l	97
59) 2-Hexanone	8.36	43	357269	81.414	ug/l	100
60) Dibromochloromethane	8.48	129	63104	18.203	ug/l	99
61) 1,2-Dibromoethane	8.59	107	57555	16.106	ug/l	97
64) Tetrachloroethene	8.23	164	55748	19.011	ug/l	98
65) Chlorobenzene	9.12	112	145897	16.995	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.21	131	55533	18.847	ug/l	98
67) Ethyl Benzene	9.25	91	259683	18.761	ug/l	97
68) m/p-Xylenes	9.38	106	198140	37.579	ug/l	98
69) o-Xylene	9.78	106	98668	20.302	ug/l	96
70) Styrene	9.80	104	159899	19.323	ug/l	98
71) Bromoform	9.96	173	51919	20.415	ug/l #	100
73) Isopropylbenzene	10.17	105	264998	22.705	ug/l	99
74) N-amyl acetate	10.01	43	122600	23.207	ug/l	98
75) 1,1,2,2-Tetrachloroethane	10.46	83	86657	17.119	ug/l	99
76) 1,2,3-Trichloropropane	10.50	75	76154m	21.447	ug/l	
77) Bromobenzene	10.45	156	65061	20.132	ug/l	99
78) n-propylbenzene	10.59	91	312370	21.588	ug/l	98
79) 2-Chlorotoluene	10.66	91	180544	20.556	ug/l	99
80) 1,3,5-Trimethylbenzene	10.78	105	222581	22.488	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.51	75	32667m	19.517	ug/l	
82) 4-Chlorotoluene	10.78	91	209740	20.584	ug/l	100
83) tert-Butylbenzene	11.10	119	217370	22.561	ug/l	99
84) 1,2,4-Trimethylbenzene	11.15	105	230190	23.015	ug/l	100
85) sec-Butylbenzene	11.33	105	274368	22.681	ug/l	98
86) p-Isopropyltoluene	11.48	119	240901	22.534	ug/l	98
87) 1,3-Dichlorobenzene	11.42	146	120700	19.431	ug/l	98
88) 1,4-Dichlorobenzene	11.51	146	119217	18.335	ug/l	99
89) n-Butylbenzene	11.89	91	217149	20.643	ug/l	97
90) Hexachloroethane	12.15	117	45300	23.636	ug/l	99
91) 1,2-Dichlorobenzene	11.88	146	120049	19.327	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	12.66	75	24452	23.664	ug/l	93

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU061318\
Data File : VU024501.D
Acq On : 13 Jun 2018 12:19
Operator : MD/SY
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC020

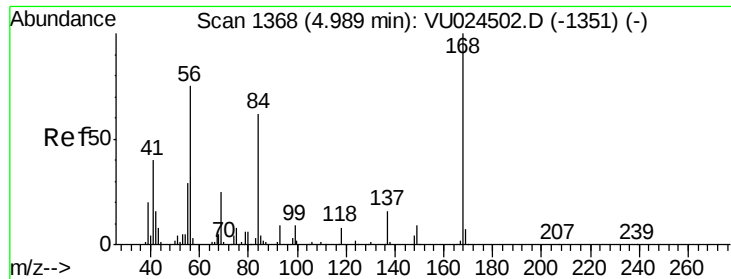
Manual Integrations
APPROVED

MMDadoda
6/14/2018 9:44:27 AM

Quant Time: Jun 13 13:13:11 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
Quant Title : SW846 8260
QLast Update : Wed Jun 13 13:03:59 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.51	180	78280	21.336	ug/l	100
94) Hexachlorobutadiene	13.70	225	42364	19.439	ug/l	99
95) Naphthalene	13.75	128	243070	24.228	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	79810	21.527	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tgt Ion: 168 Resp: 198881

Ion Ratio Lower Upper

168 100

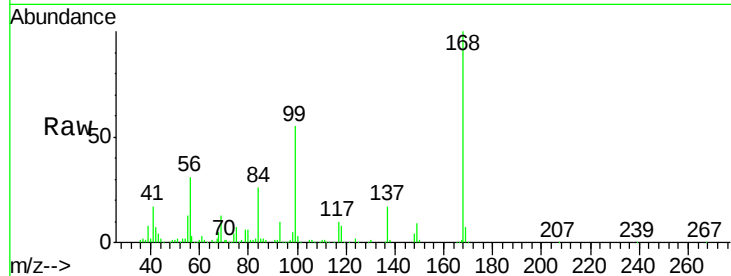
99 54.9 43.2 64.8

Manual Integrations

APPROVED

MMDadoda

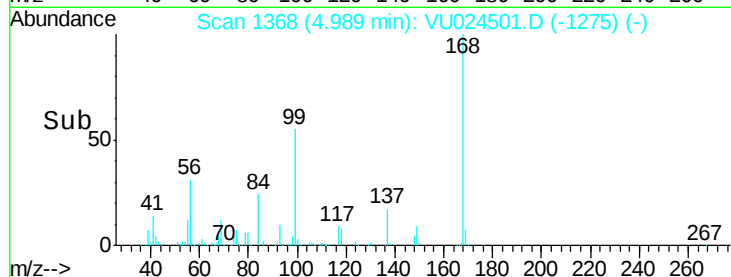
6/14/2018 9:44:27 AM



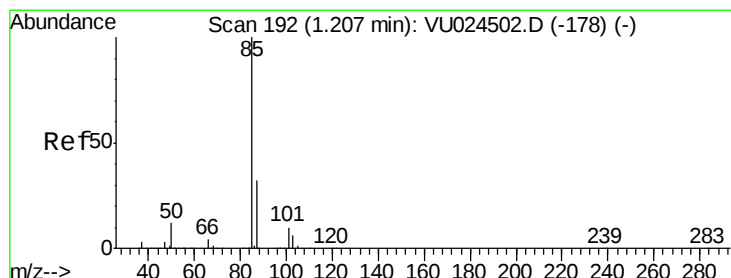
Abundance Ion 167.90 (167.60 to 168.60): VU024501.D (-1275) (-)

Ion 98.90 (98.60 to 99.60): VU024501.D (-1275) (-)

Time-->



Time-->



#2

Dichlorodifluoromethane

Concen: 16.213 ug/l

RT: 1.21 min Scan# 192

Delta R.T. -0.00 min

Lab File: VU024501.D

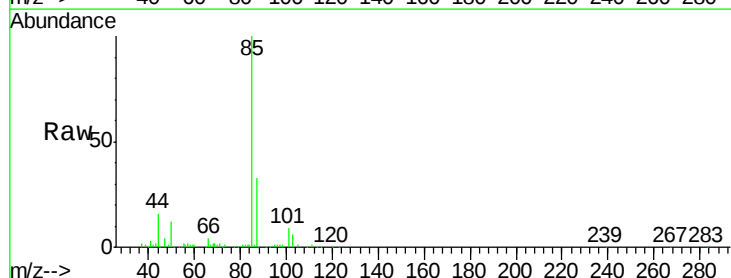
Acq: 13 Jun 2018 12:19

Tgt Ion: 85 Resp: 48875

Ion Ratio Lower Upper

85 100

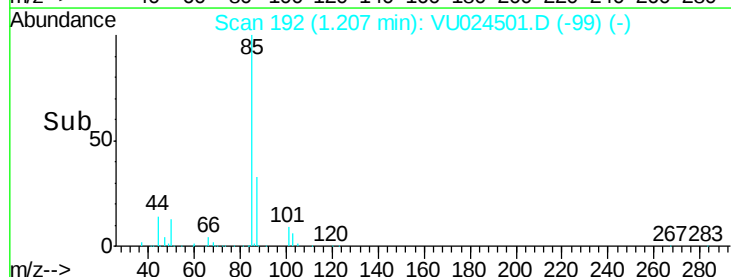
87 32.8 16.1 48.2



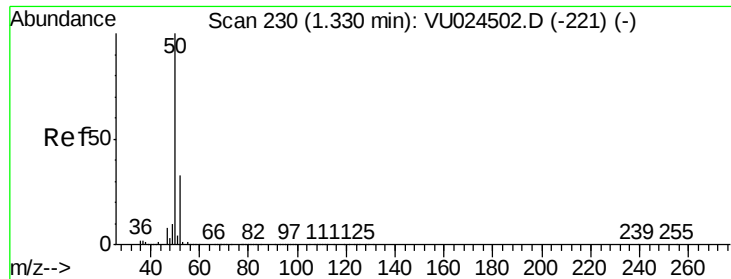
Abundance Ion 84.90 (84.60 to 85.60): VU024501.D (-99) (-)

Ion 86.90 (86.60 to 87.60): VU024501.D (-99) (-)

Time-->



Time-->



#3

Chloromethane

Concen: 14.052 ug/l

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tgt Ion: 50 Resp: 49358

Ion Ratio Lower Upper

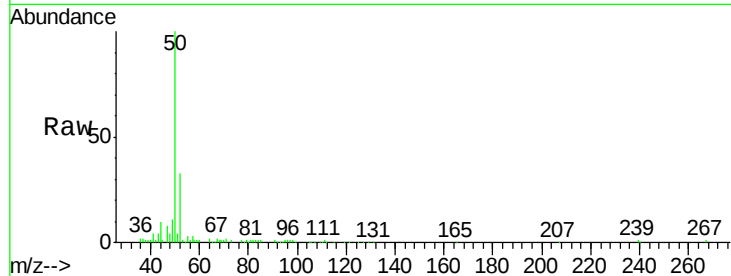
50 100

52 33.2 26.4 39.6

Manual Integrations
APPROVED

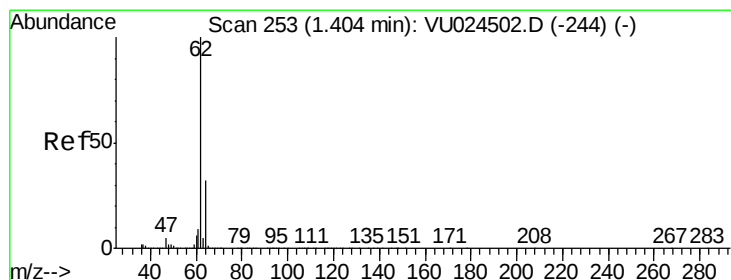
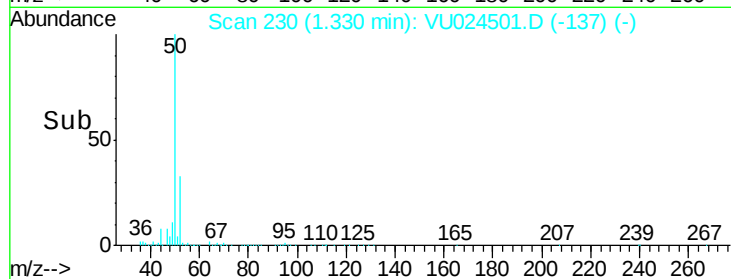
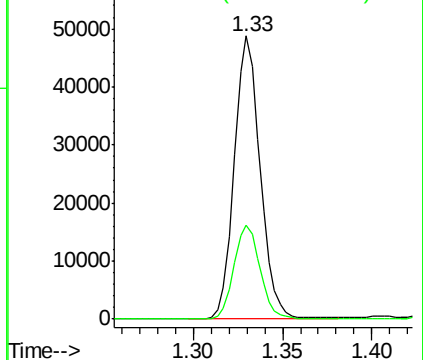
MMDadoda

6/14/2018 9:44:27 AM



Abundance Ion 49.90 (49.60 to 50.60): VU0

Ion 51.90 (51.60 to 52.60): VU0



#4

Vinyl Chloride

Concen: 12.832 ug/l

RT: 1.41 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU024501.D

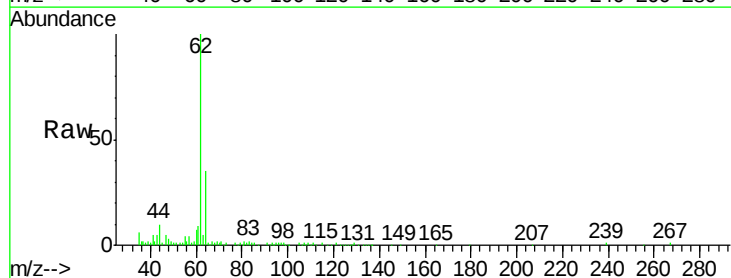
Acq: 13 Jun 2018 12:19

Tgt Ion: 62 Resp: 50179

Ion Ratio Lower Upper

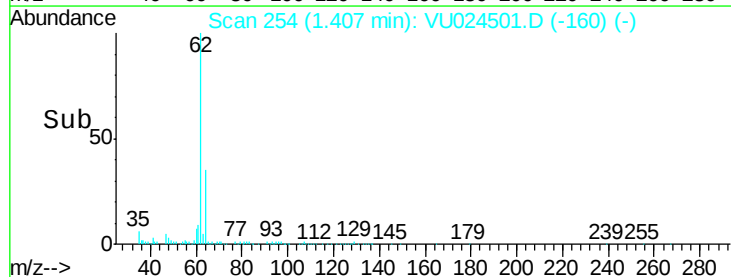
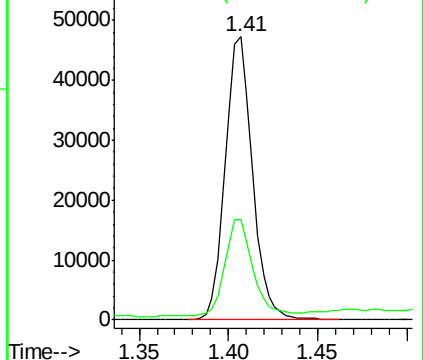
62 100

64 33.5 24.8 37.2



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0





#5

Bromomethane

Concen: 11.885 ug/l

RT: 1.63 min Scan# 323

Delta R.T. 0.01 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tgt Ion: 94 Resp: 25539

Ion Ratio Lower Upper

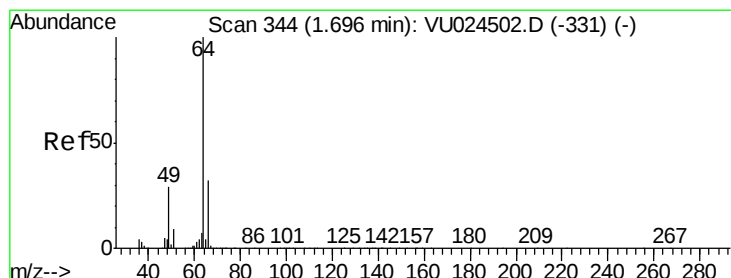
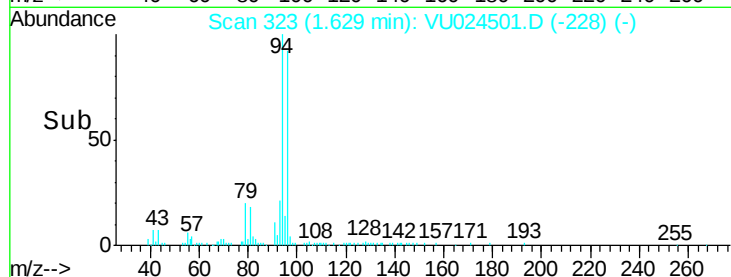
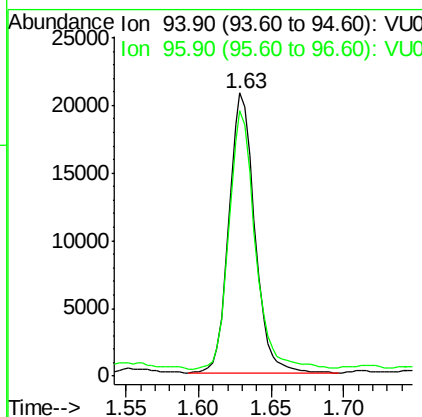
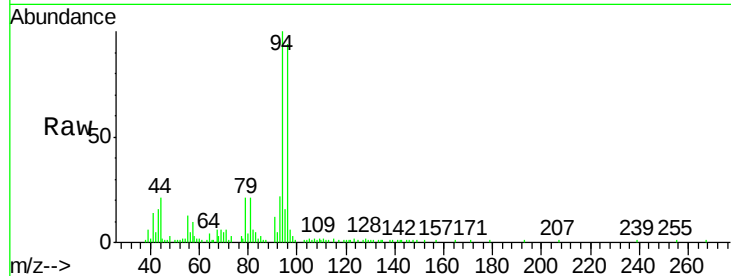
94 100

96 92.4 74.5 111.7

Manual Integrations
APPROVED

MMDadoda

6/14/2018 9:44:27 AM



#6

Chloroethane

Concen: 11.226 ug/l

RT: 1.70 min Scan# 346

Delta R.T. 0.01 min

Lab File: VU024501.D

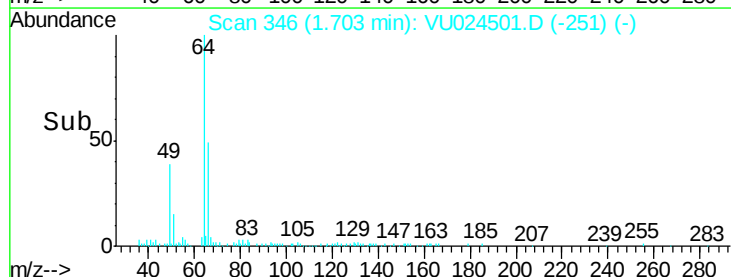
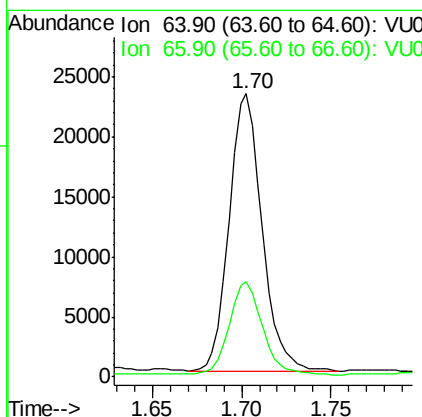
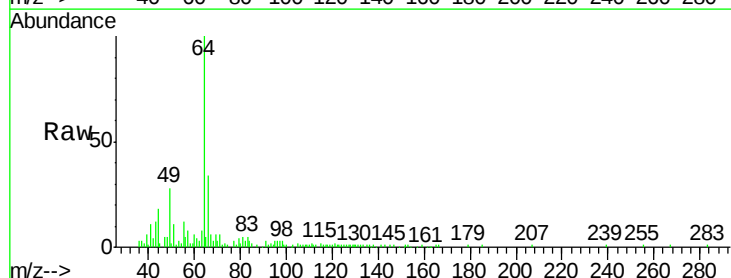
Acq: 13 Jun 2018 12:19

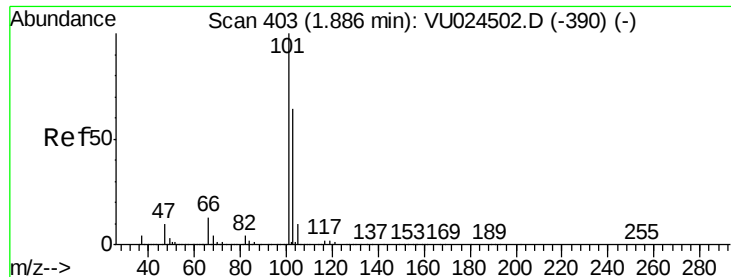
Tgt Ion: 64 Resp: 29694

Ion Ratio Lower Upper

64 100

66 33.5 25.5 38.3





#7

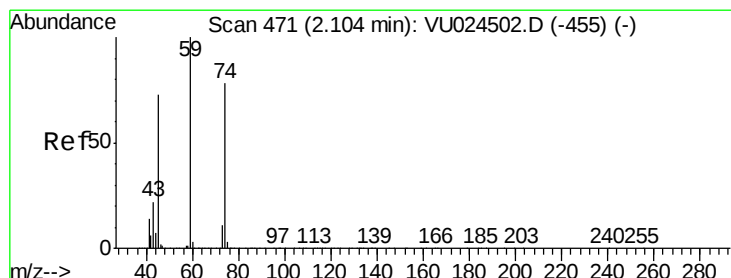
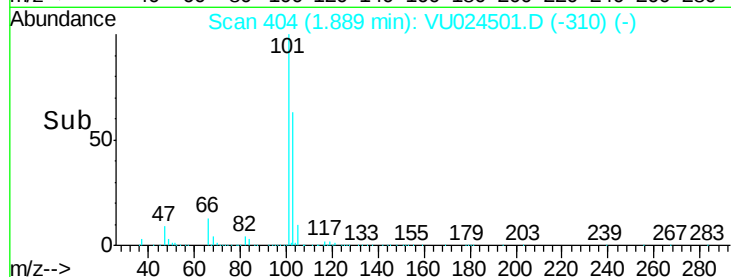
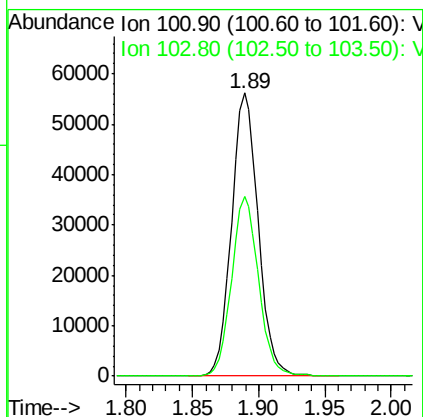
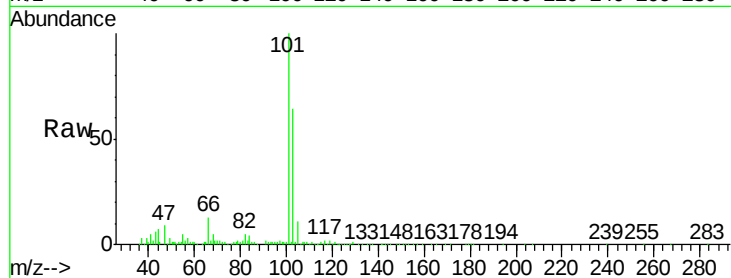
Trichlorofluoromethane
 Concen: 14.791 ug/l
 RT: 1.89 min Scan# 404
 Delta R.T. 0.00 min
 Lab File: VU024501.D
 Acq: 13 Jun 2018 12:19

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Lower	Upper
101	100		
103	63.6	52.3	78.5

Manual Integrations
 APPROVED

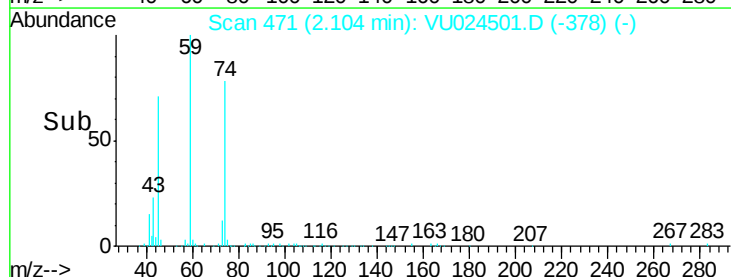
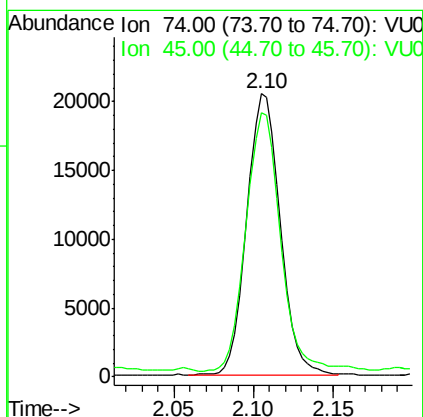
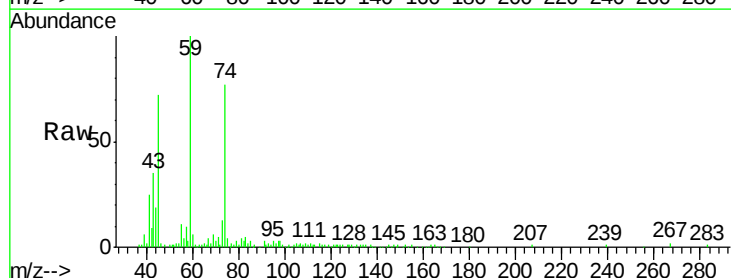
MMDadoda
 6/14/2018 9:44:27 AM



#8

Diethyl Ether
 Concen: 13.726 ug/l
 RT: 2.10 min Scan# 471
 Delta R.T. -0.00 min
 Lab File: VU024501.D
 Acq: 13 Jun 2018 12:19

Tgt Ion	Ratio	Lower	Upper
74	100		
45	94.6	55.0	165.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 15.942 ug/l

RT: 2.29 min Scan# 529

Delta R.T. 0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

Instrument :

MSVOA_U

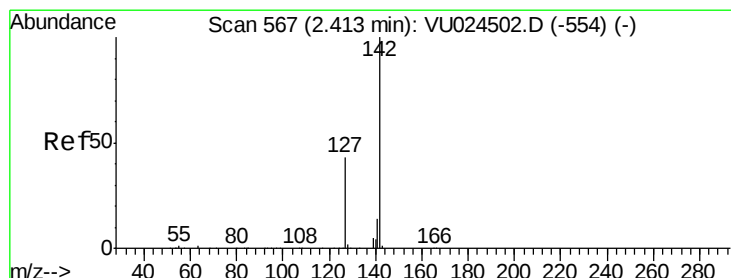
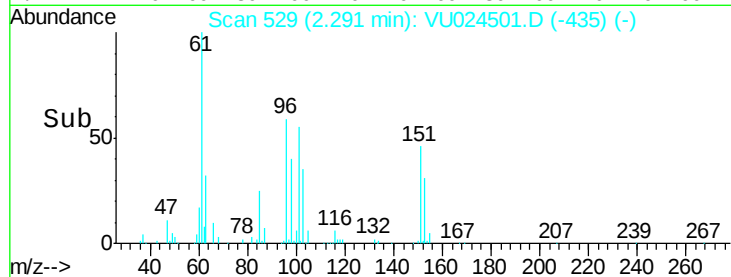
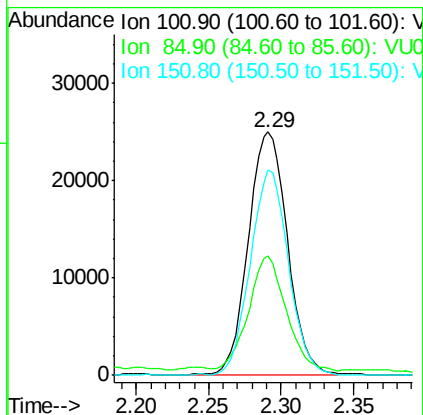
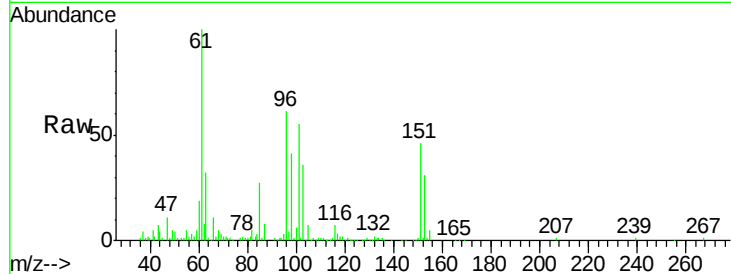
ClientSampleId :

VSTDIC020

Tgt Ion:	101	Resp:	47123
Ion Ratio	Lower	Upper	
101	100		
85	45.0	36.0	54.0
151	82.4	62.3	93.5

Manual Integrations
APPROVED

MMDadoda
6/14/2018 9:44:27 AM



#10

Methyl Iodide

Concen: 16.595 ug/l

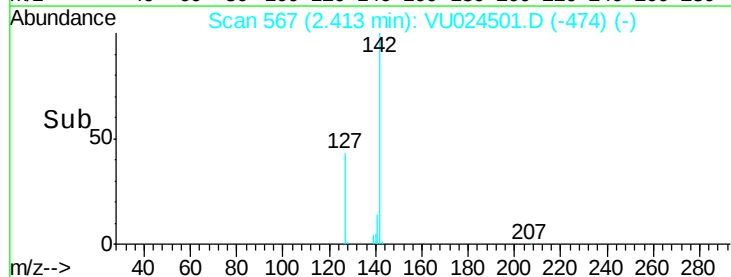
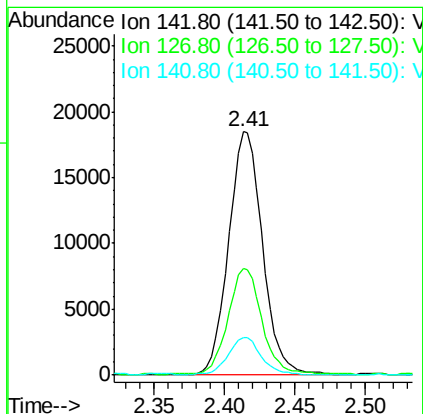
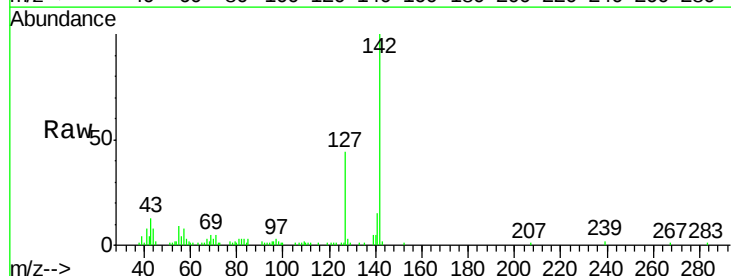
RT: 2.41 min Scan# 567

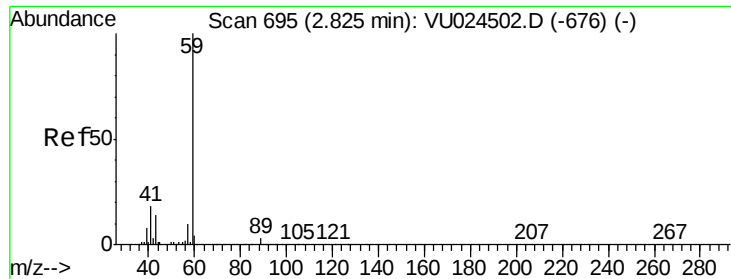
Delta R.T. -0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

Tgt Ion:	142	Resp:	31101
Ion Ratio	Lower	Upper	
142	100		
127	44.8	35.6	53.4
141	15.3	11.7	17.5





#11

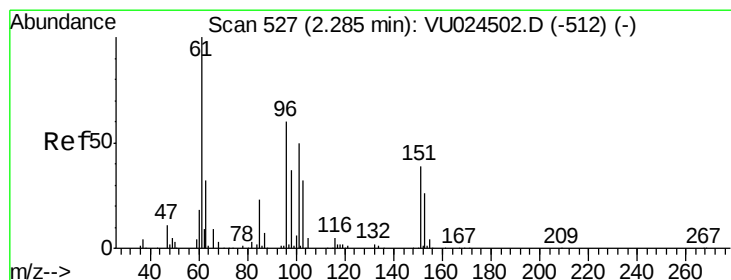
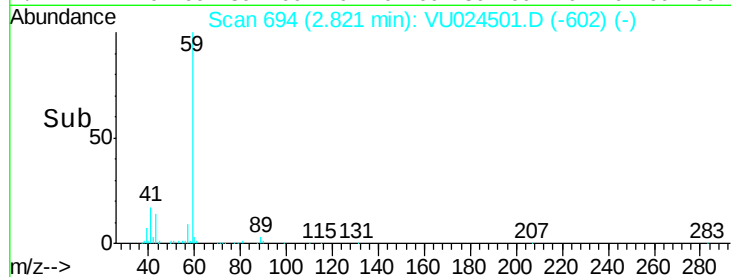
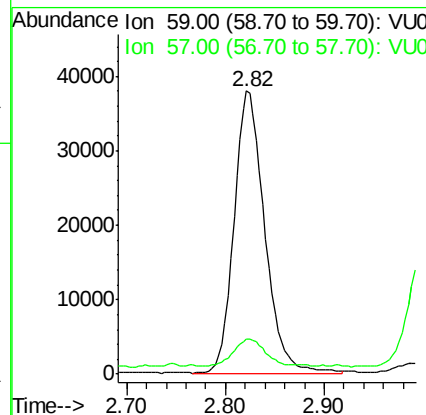
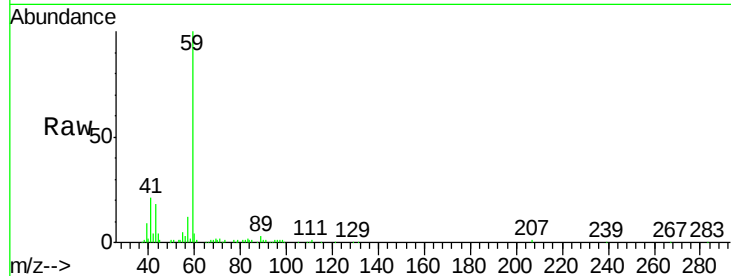
Tert butyl alcohol
 Concen: 109.204 ug/l
 RT: 2.82 min Scan# 694
 Delta R.T. -0.00 min
 Lab File: VU024501.D
 Acq: 13 Jun 2018 12:19

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Lower	Upper
59	100		
57	9.4	8.5	12.7

Manual Integrations
 APPROVED

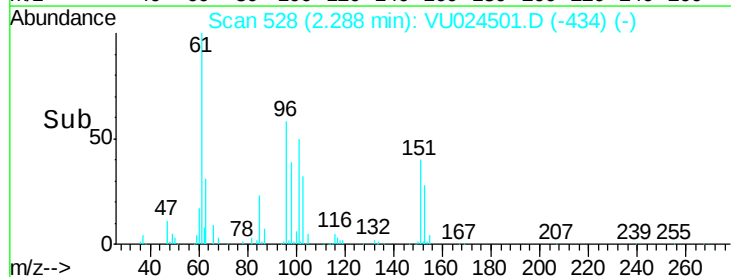
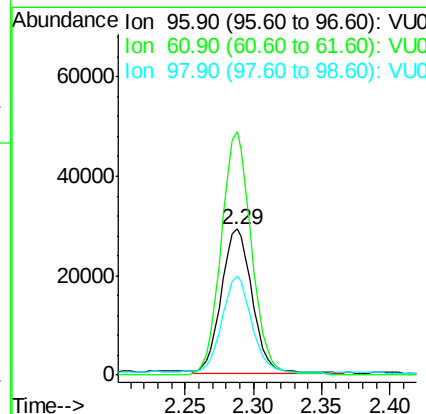
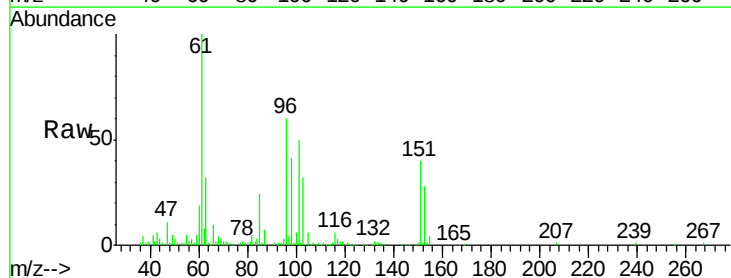
MMDadoda
 6/14/2018 9:44:27 AM

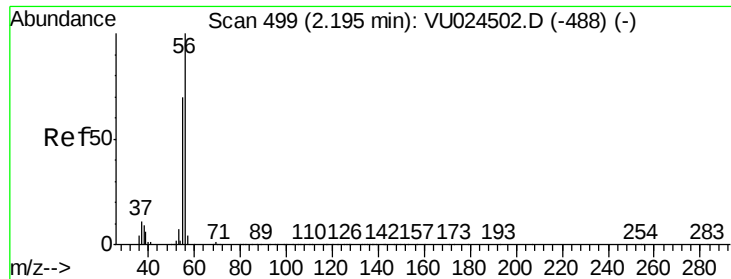


#12

1,1-Dichloroethene
 Concen: 16.307 ug/l
 RT: 2.29 min Scan# 528
 Delta R.T. 0.00 min
 Lab File: VU024501.D
 Acq: 13 Jun 2018 12:19

Tgt Ion	Ratio	Lower	Upper
96	100		
61	168.9	141.7	212.5
98	67.4	51.6	77.4





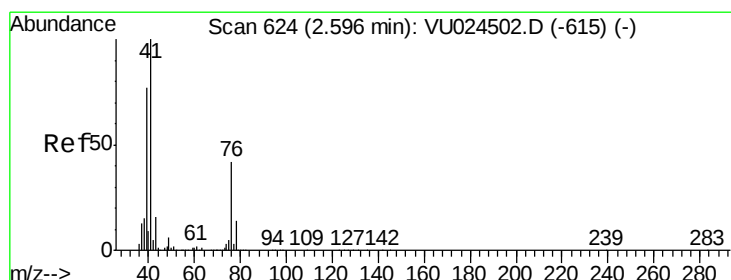
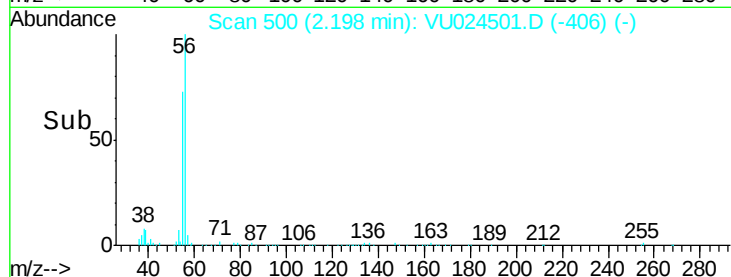
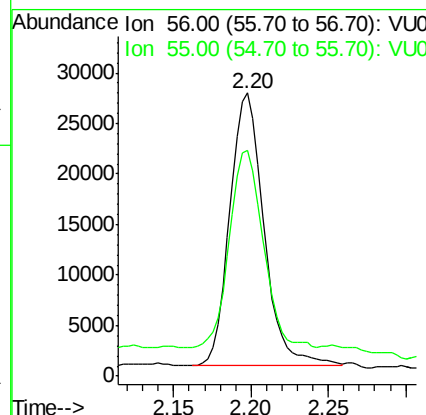
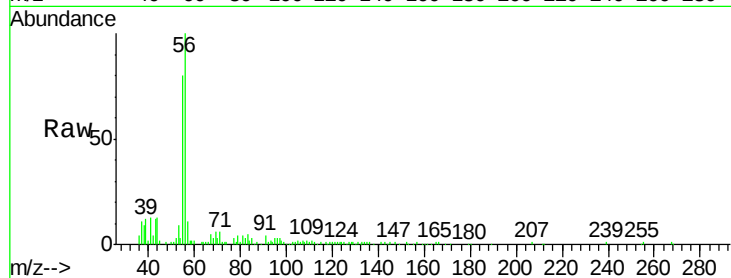
#13
Acrolein
Concen: 52.822 ug/l
RT: 2.20 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU024501.D
Acq: 13 Jun 2018 12:19

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion: 56 Resp: 41132
Ion Ratio Lower Upper
56 100
55 71.2 58.4 87.6

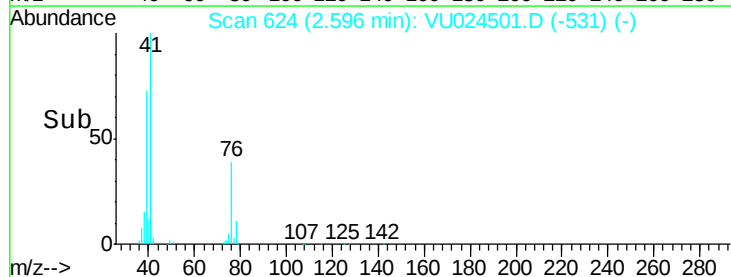
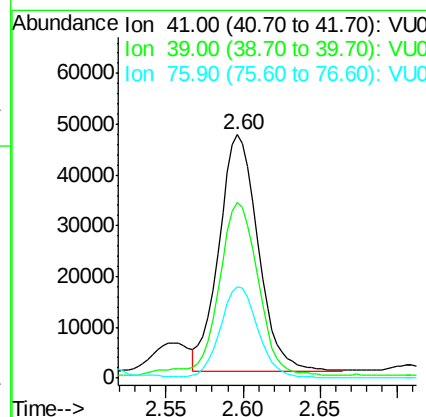
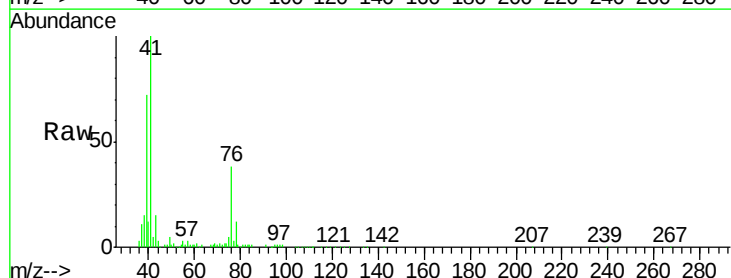
Manual Integrations
APPROVED

MMDadoda
6/14/2018 9:44:27 AM



#14
Allyl chloride
Concen: 17.430 ug/l
RT: 2.60 min Scan# 624
Delta R.T. -0.00 min
Lab File: VU024501.D
Acq: 13 Jun 2018 12:19

Tgt Ion: 41 Resp: 81886
Ion Ratio Lower Upper
41 100
39 73.5 61.6 92.4
76 37.8 29.7 44.5





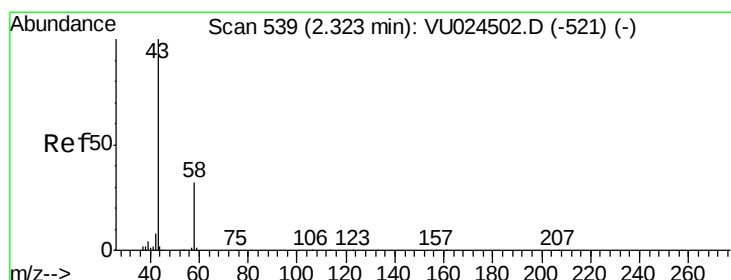
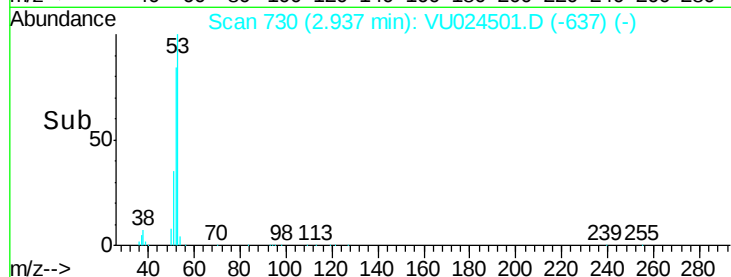
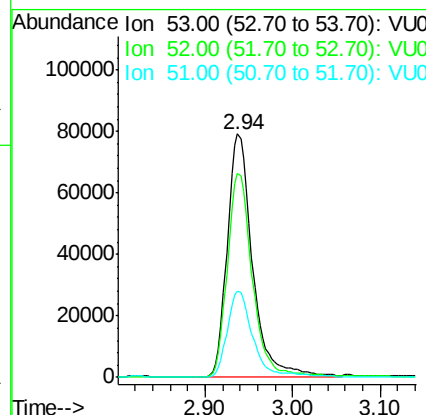
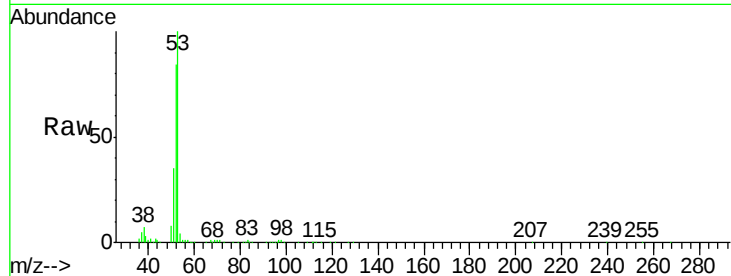
#15
 Acrylonitrile
 Concen: 79.388 ug/l
 RT: 2.94 min Scan# 730
 Delta R.T. -0.00 min
 Lab File: VU024501.D
 Acq: 13 Jun 2018 12:19

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Lower	Upper
53	100		
52	83.1	67.1	100.7
51	35.8	28.4	42.6

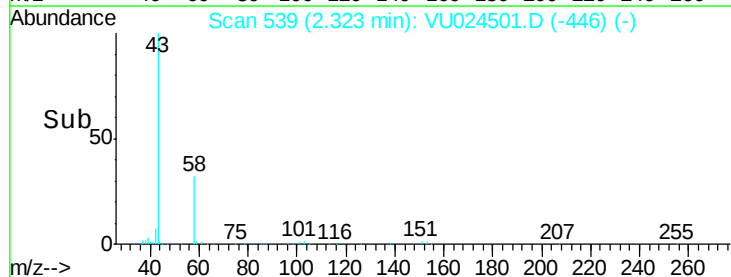
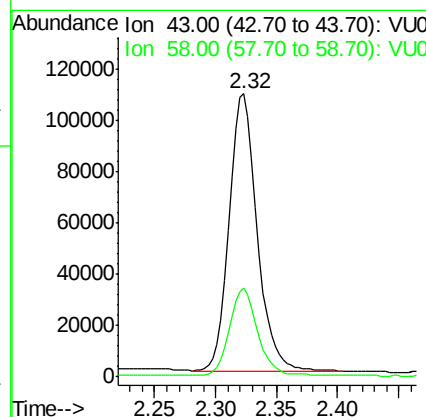
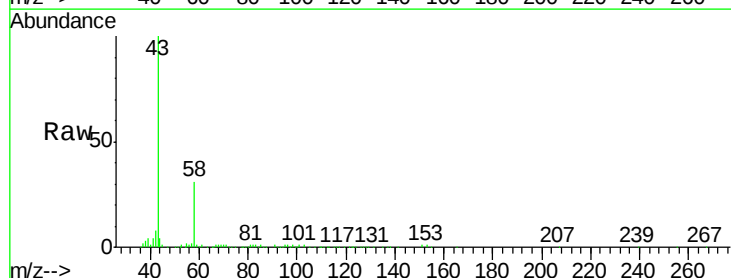
Manual Integrations
 APPROVED

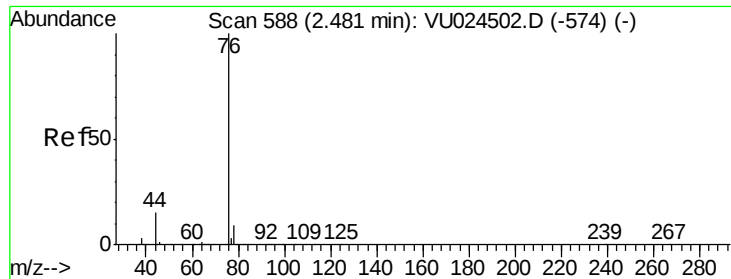
MMDadoda
 6/14/2018 9:44:27 AM



#16
 Acetone
 Concen: 69.087 ug/l
 RT: 2.32 min Scan# 539
 Delta R.T. -0.00 min
 Lab File: VU024501.D
 Acq: 13 Jun 2018 12:19

Tgt Ion	Ratio	Lower	Upper
43	100		
58	31.5	24.4	36.6





#17

Carbon Disulfide

Concen: 16.703 ug/l

RT: 2.48 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tgt Ion: 76 Resp: 142299

Ion Ratio Lower Upper

76 100

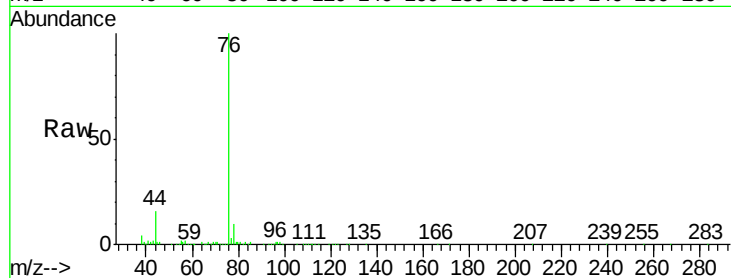
78 9.4 7.1 10.7

Manual Integrations

APPROVED

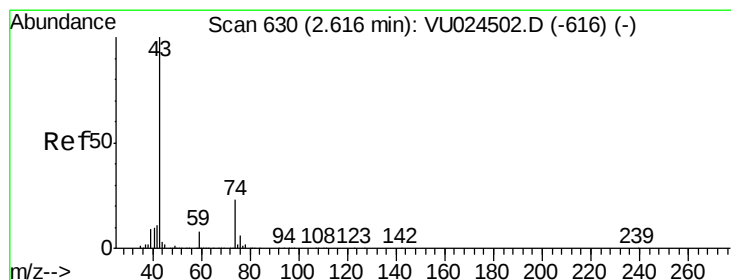
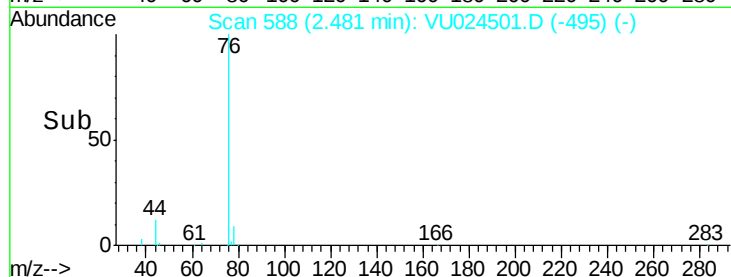
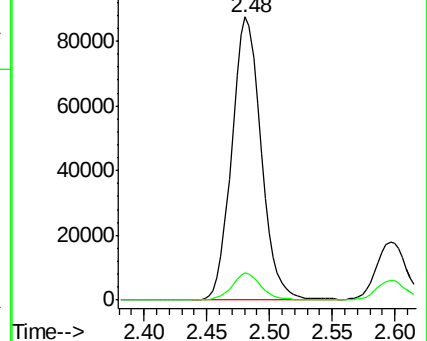
MMDadoda

6/14/2018 9:44:27 AM



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#18

Methyl Acetate

Concen: 14.931 ug/l

RT: 2.62 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU024501.D

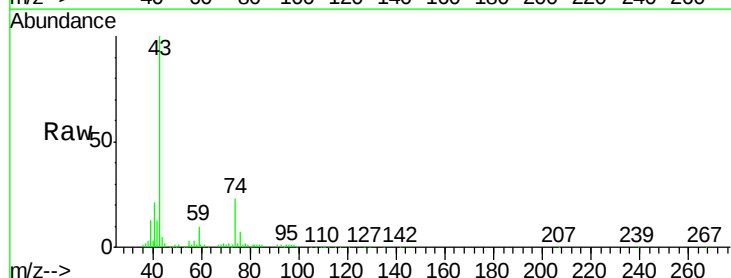
Acq: 13 Jun 2018 12:19

Tgt Ion: 43 Resp: 74594

Ion Ratio Lower Upper

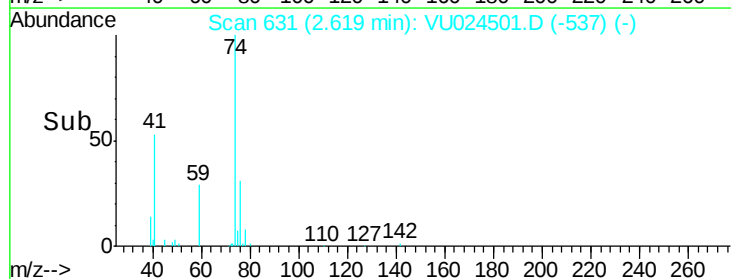
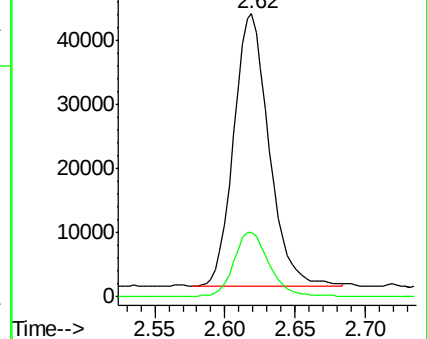
43 100

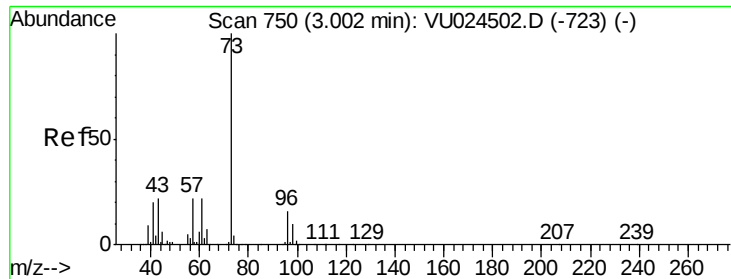
74 24.3 18.0 27.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0





#19

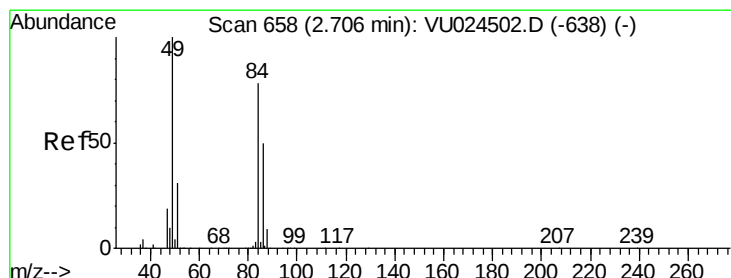
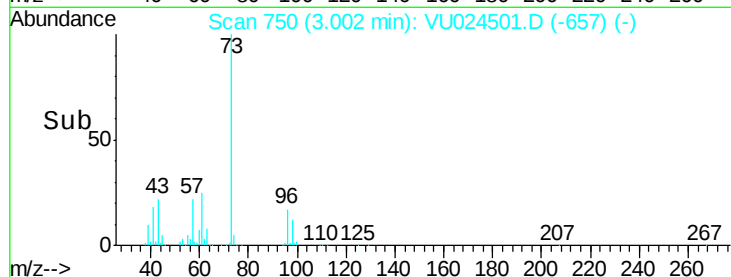
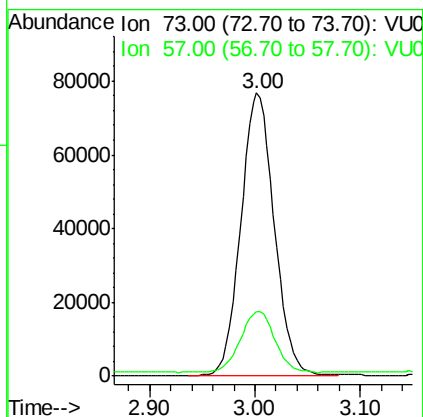
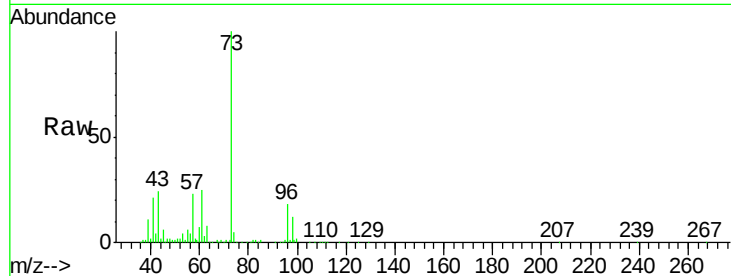
Methyl tert-butyl Ether
Concen: 19.313 ug/l
RT: 3.00 min Scan# 750
Delta R.T. -0.00 min
Lab File: VU024501.D
Acq: 13 Jun 2018 12:19

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
73	100		
57	21.5	18.8	28.2

Manual Integrations
APPROVED

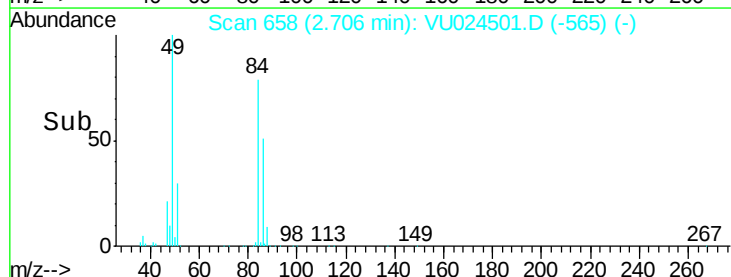
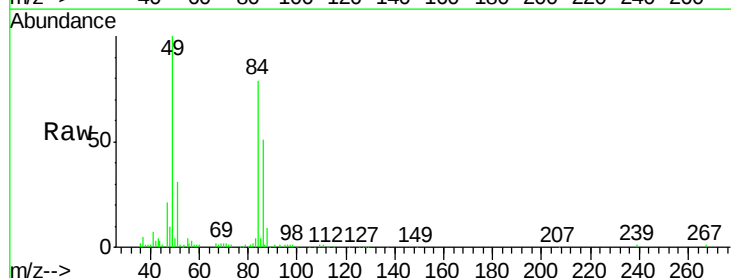
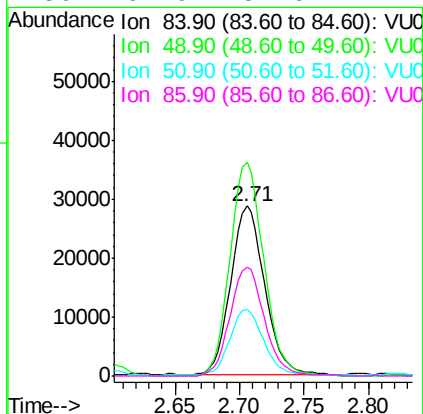
MMDadoda
6/14/2018 9:44:27 AM



#20

Methylene Chloride
Concen: 15.075 ug/l
RT: 2.71 min Scan# 658
Delta R.T. -0.00 min
Lab File: VU024501.D
Acq: 13 Jun 2018 12:19

Tgt Ion	Ratio	Lower	Upper
84	100		
49	126.9	103.8	155.8
51	38.8	32.0	48.0
86	64.9	51.6	77.4





#21

trans-1,2-Dichloroethene

Concen: 16.584 ug/l

RT: 2.99 min Scan# 746

Delta R.T. 0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

Instrument :

MSVOA_U

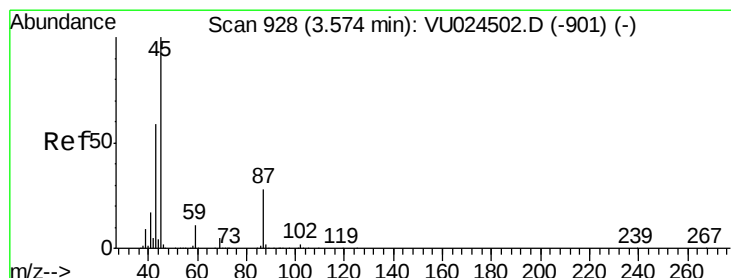
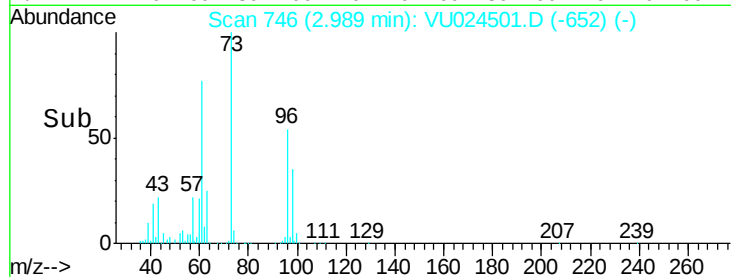
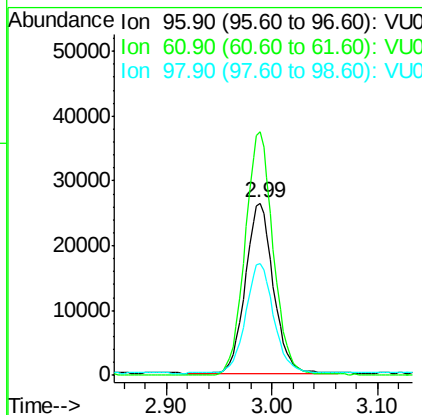
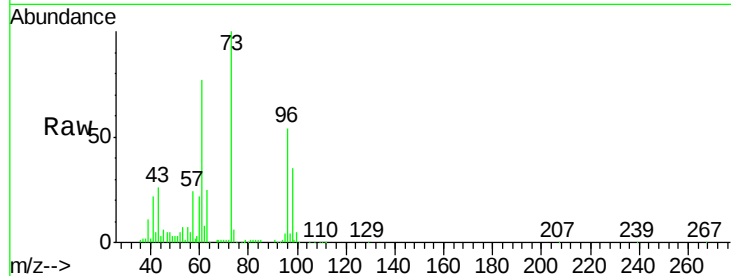
ClientSampleId :

VSTDIC020

Tgt Ion:	96	Resp:	49275
Ion	Ratio	Lower	Upper
96	100		
61	142.6	119.4	179.0
98	64.2	51.1	76.7

Manual Integrations
APPROVED

MMDadoda
6/14/2018 9:44:27 AM



#22

Diisopropyl ether

Concen: 17.723 ug/l

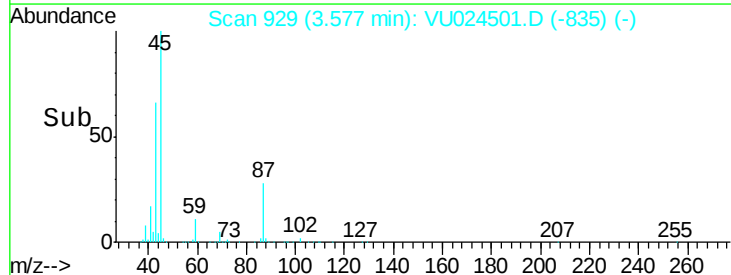
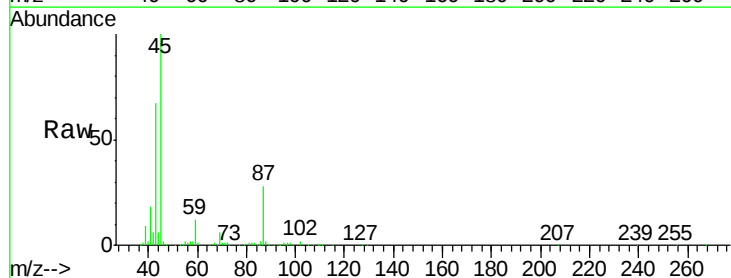
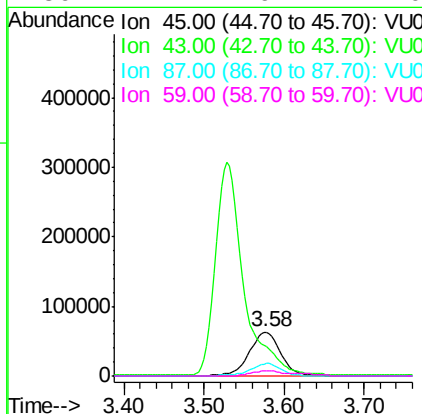
RT: 3.58 min Scan# 929

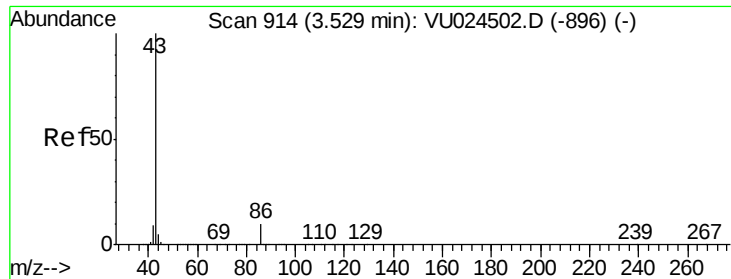
Delta R.T. 0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

Tgt Ion:	45	Resp:	167772
Ion	Ratio	Lower	Upper
45	100		
43	64.7	45.8	68.6
87	28.3	20.6	31.0
59	11.4	9.4	14.0





#23

Vinyl Acetate

Concen: 107.064 ug/l

RT: 3.53 min Scan# 914

Delta R.T. -0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 744862

Ion Ratio Lower Upper

43 100

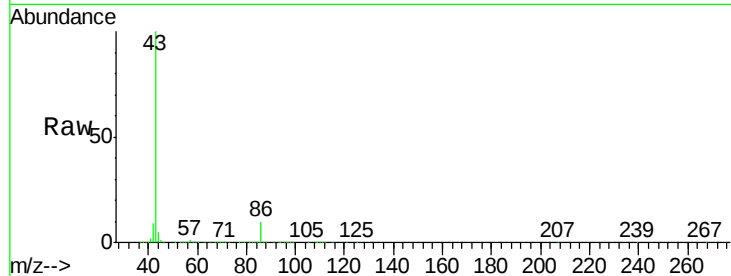
86 10.3 7.8 11.8

Manual Integrations

APPROVED

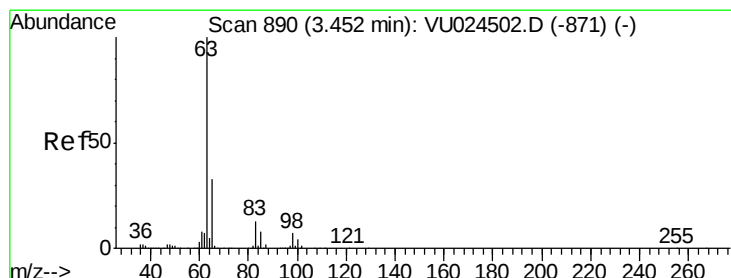
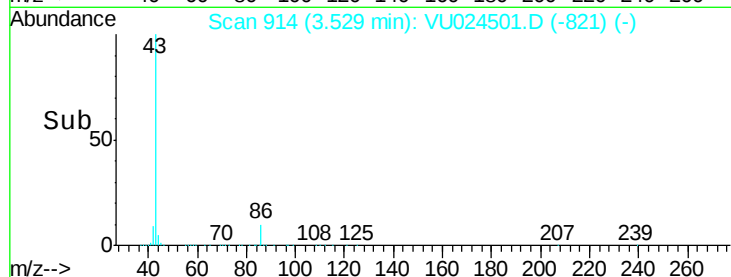
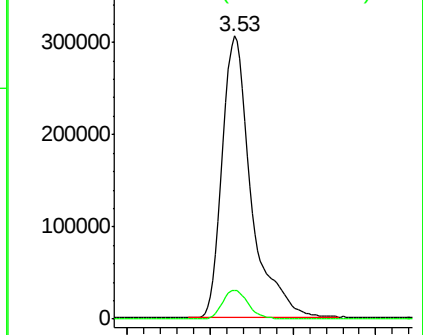
MMDadoda

6/14/2018 9:44:27 AM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 86.00 (85.70 to 86.70): VU0



#24

1,1-Dichloroethane

Concen: 16.224 ug/l

RT: 3.45 min Scan# 890

Delta R.T. -0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

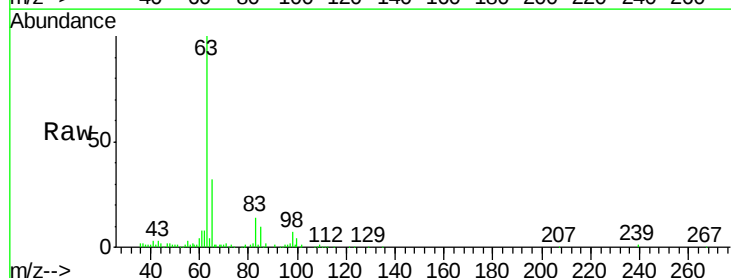
Tgt Ion: 63 Resp: 96159

Ion Ratio Lower Upper

63 100

98 6.6 3.5 10.4

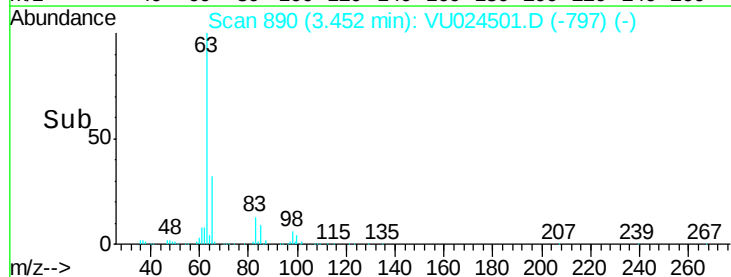
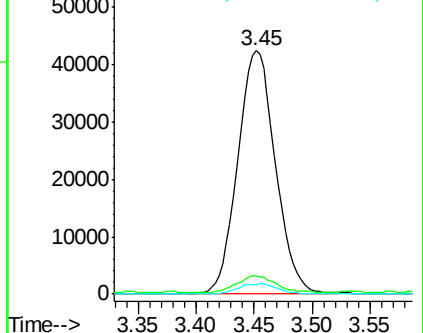
100 4.1 1.8 5.5

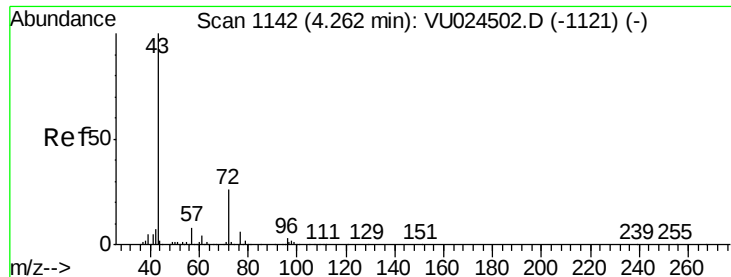


Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

Ion 99.90 (99.60 to 100.60): VU0





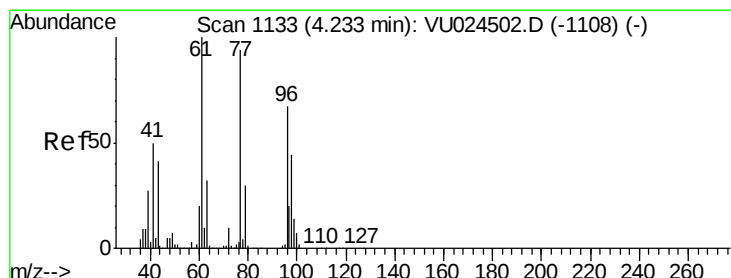
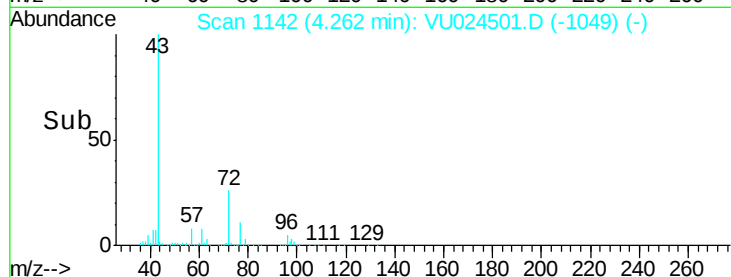
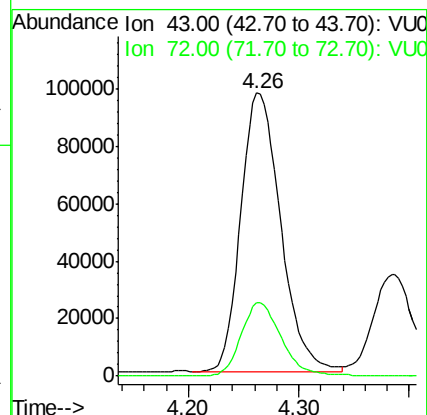
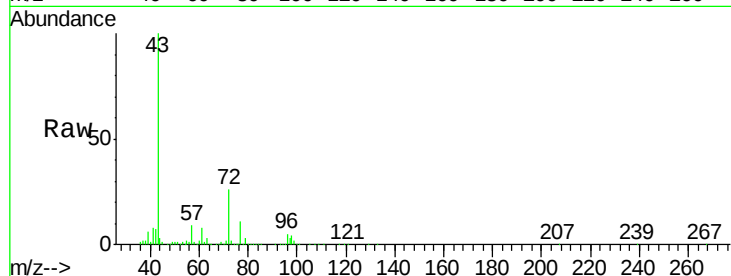
#25
2-Butanone
Concen: 80.943 ug/l
RT: 4.26 min Scan# 1142
Delta R.T. -0.00 min
Lab File: VU024501.D
Acq: 13 Jun 2018 12:19

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion: 43 Resp: 243329
Ion Ratio Lower Upper
43 100
72 26.2 19.6 29.4

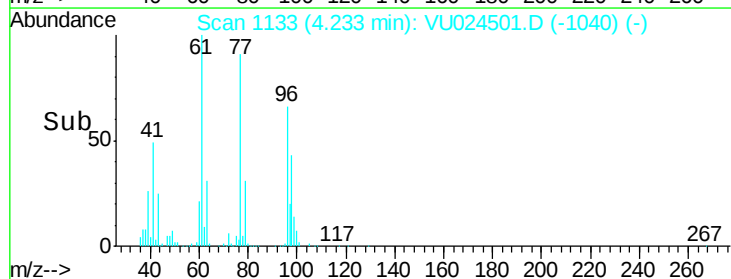
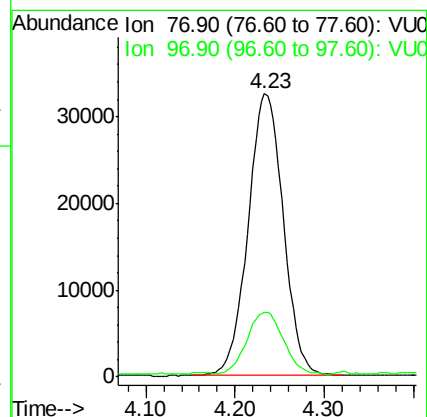
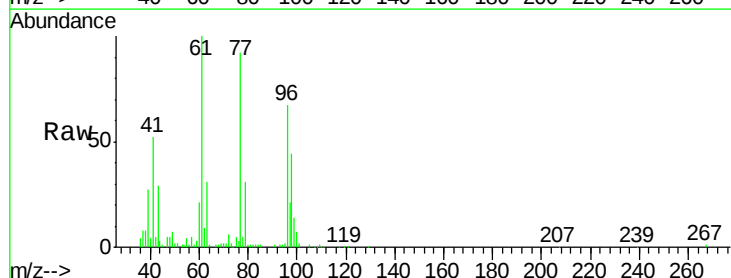
Manual Integrations
APPROVED

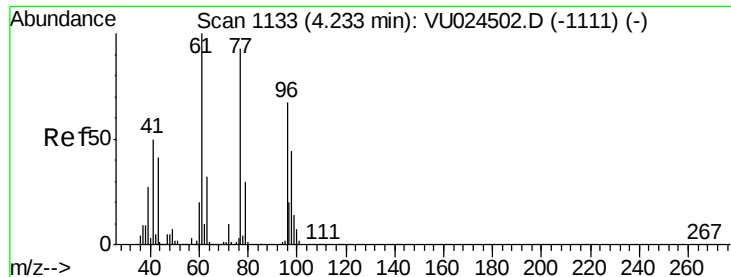
MMDadoda
6/14/2018 9:44:27 AM



#26
2,2-Dichloropropane
Concen: 19.725 ug/l
RT: 4.23 min Scan# 1133
Delta R.T. -0.00 min
Lab File: VU024501.D
Acq: 13 Jun 2018 12:19

Tgt Ion: 77 Resp: 89129
Ion Ratio Lower Upper
77 100
97 23.1 11.3 33.8





#27

cis-1,2-Dichloroethene

Concen: 17.338 ug/l

RT: 4.23 min Scan# 1133

Delta R.T. -0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

Instrument :

MSVOA_U

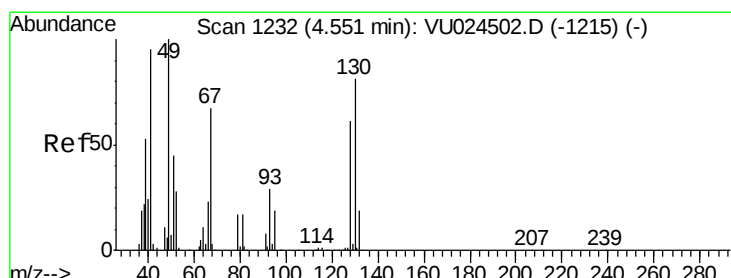
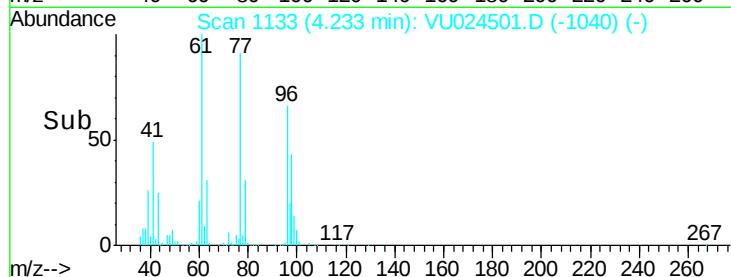
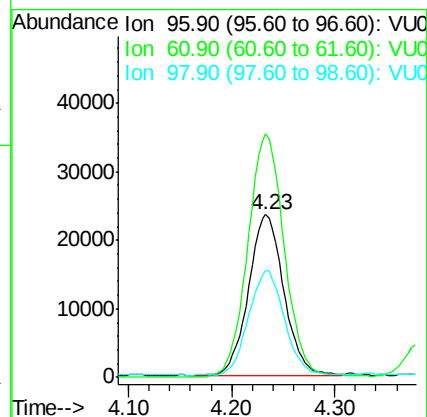
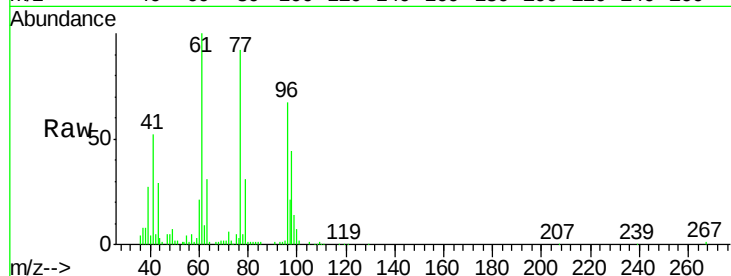
ClientSampleId :

VSTDIC020

Tgt Ion:	96	Resp:	55976
Ion	Ratio	Lower	Upper
96	100		
61	156.5	0.0	306.6
98	65.1	0.0	128.8

Manual Integrations
APPROVED

MMDadoda
6/14/2018 9:44:27 AM



#28

Bromochloromethane

Concen: 20.402 ug/l

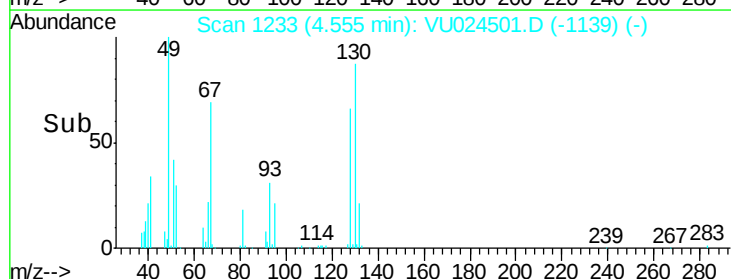
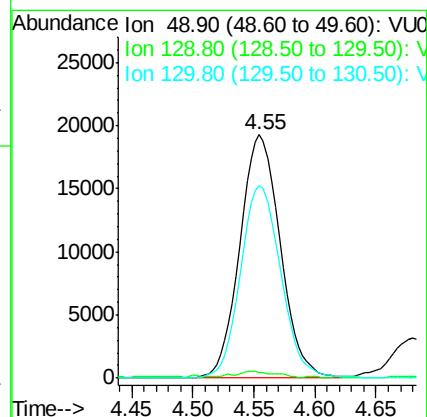
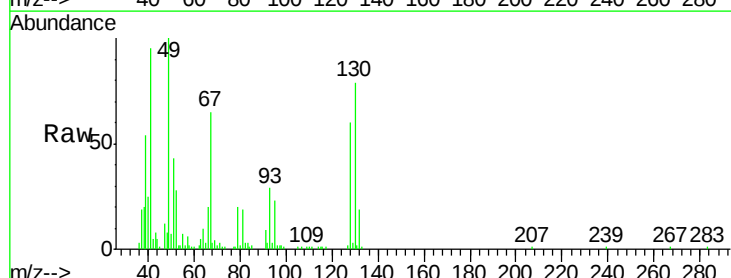
RT: 4.55 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

Tgt Ion:	49	Resp:	44282
Ion	Ratio	Lower	Upper
49	100		
129	2.9	0.0	3.8
130	78.8	57.8	86.6





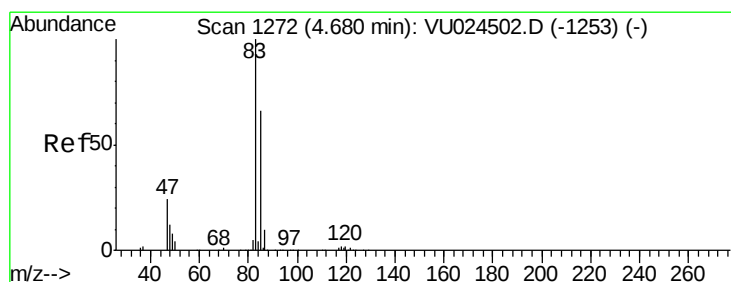
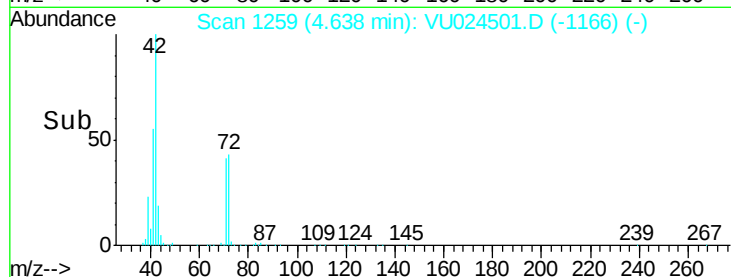
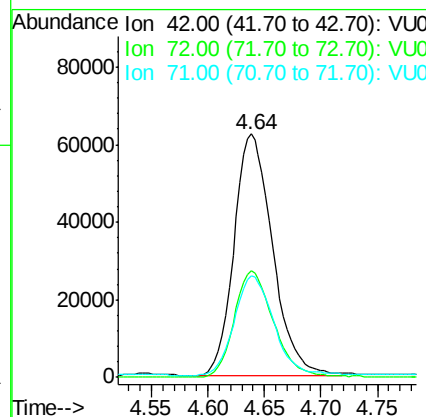
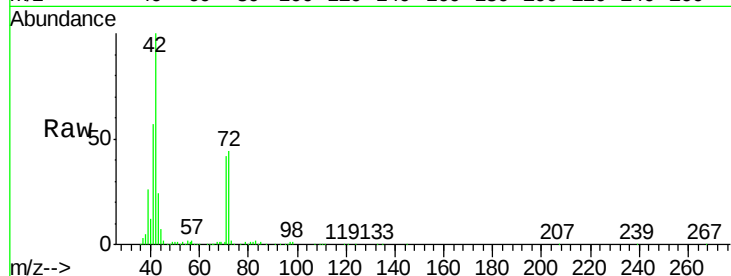
#29
Tetrahydrofuran
Concen: 86.355 ug/l
RT: 4.64 min Scan# 1259
Delta R.T. -0.00 min
Lab File: VU024501.D
Acq: 13 Jun 2018 12:19

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
42	100		
72	44.9	34.5	51.7
71	41.9	32.2	48.4

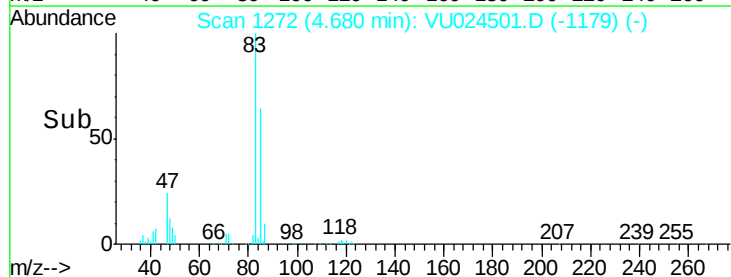
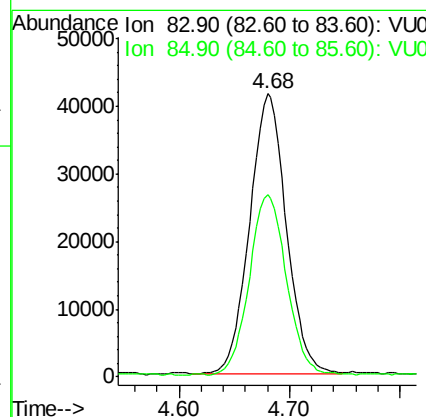
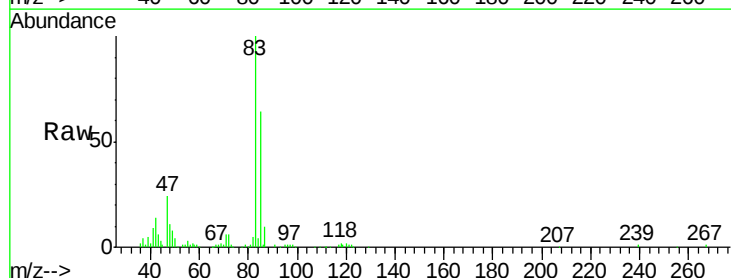
Manual Integrations
APPROVED

MMDadoda
6/14/2018 9:44:27 AM



#30
Chloroform
Concen: 15.856 ug/l
RT: 4.68 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VU024501.D
Acq: 13 Jun 2018 12:19

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.9	52.4	78.6





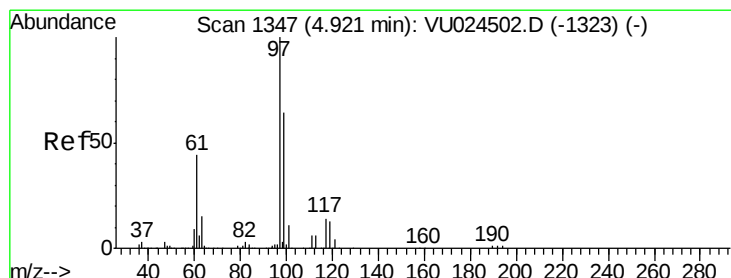
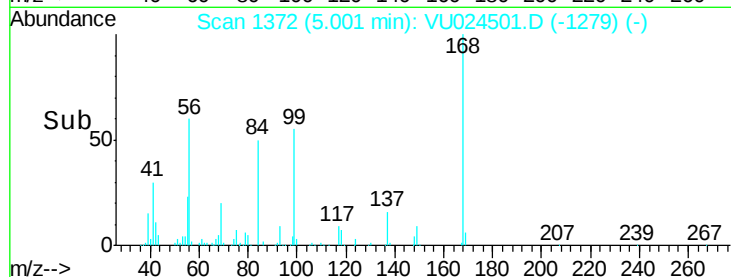
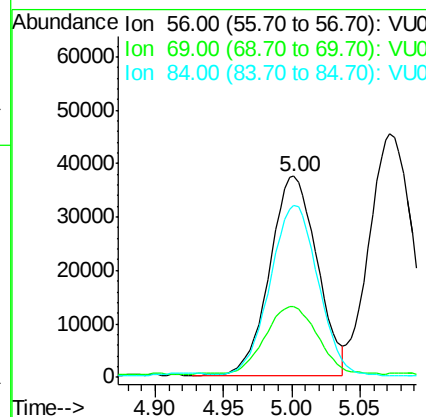
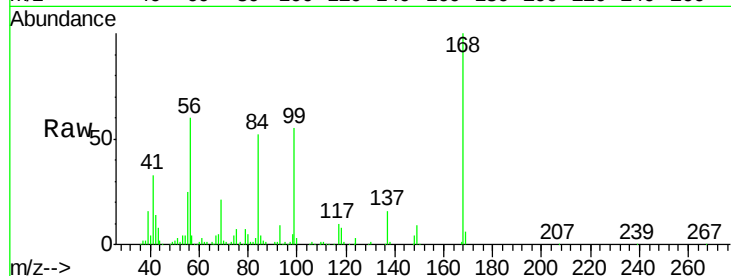
#31
Cyclohexane
Concen: 15.384 ug/l
RT: 5.00 min Scan# 1372
Delta R.T. -0.00 min
Lab File: VU024501.D
Acq: 13 Jun 2018 12:19

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
56	100		
69	33.6	24.8	37.2
84	83.8	65.2	97.8

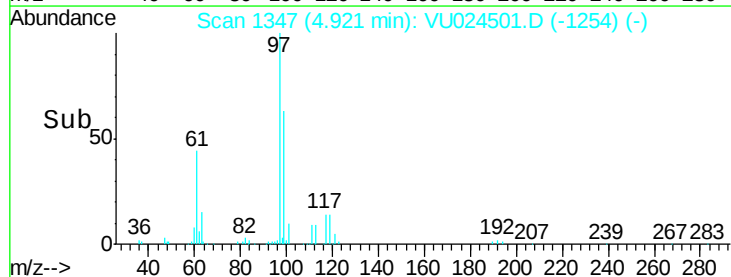
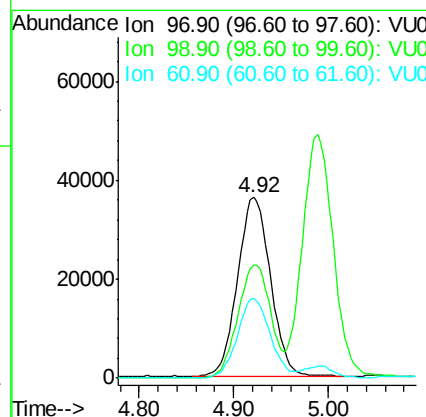
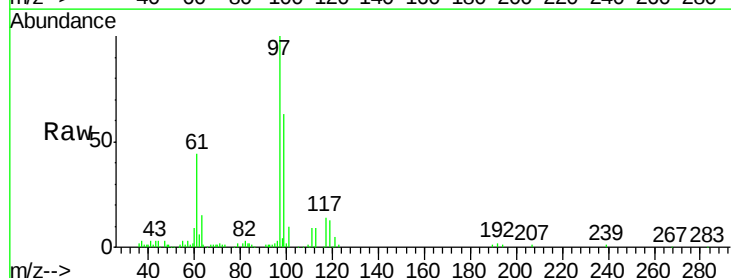
Manual Integrations
APPROVED

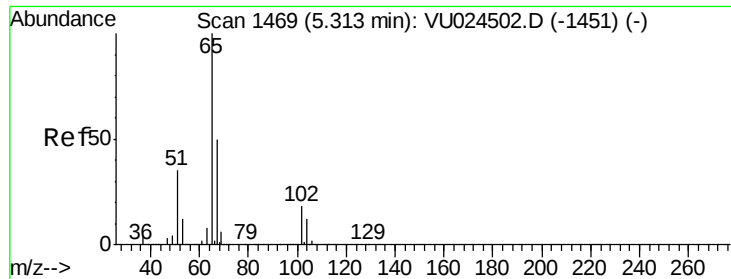
MMDadoda
6/14/2018 9:44:27 AM



#32
1,1,1-Trichloroethane
Concen: 18.259 ug/l
RT: 4.92 min Scan# 1347
Delta R.T. -0.00 min
Lab File: VU024501.D
Acq: 13 Jun 2018 12:19

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.3	51.0	76.6
61	43.9	39.4	59.0





#33

1,2-Dichloroethane-d4

Concen: 16.683 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tgt Ion: 65 Resp: 65695

Ion Ratio Lower Upper

65 100

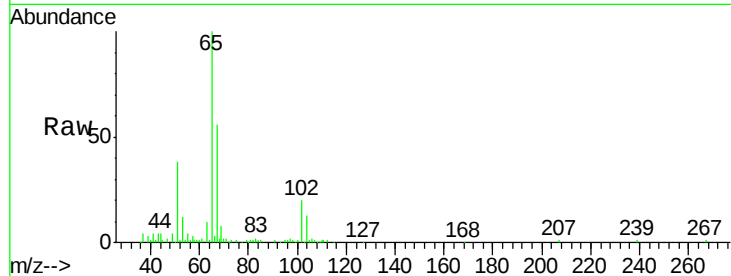
67 52.7 0.0 107.0

Manual Integrations

APPROVED

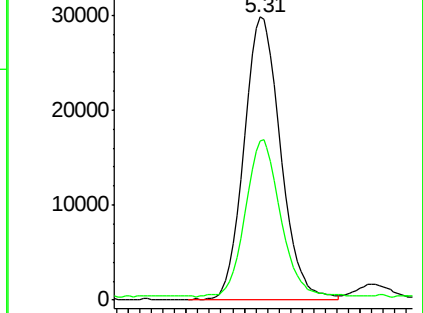
MMDadoda

6/14/2018 9:44:27 AM

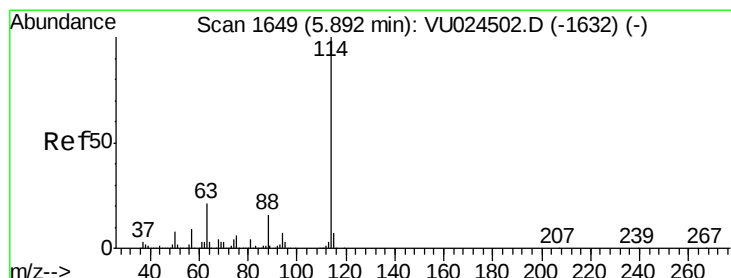
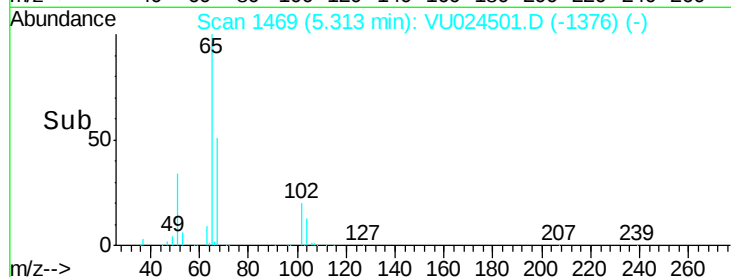


Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0



Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

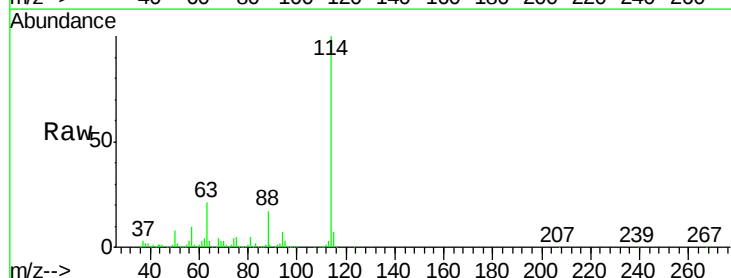
Tgt Ion: 114 Resp: 311978

Ion Ratio Lower Upper

114 100

63 21.1 0.0 45.4

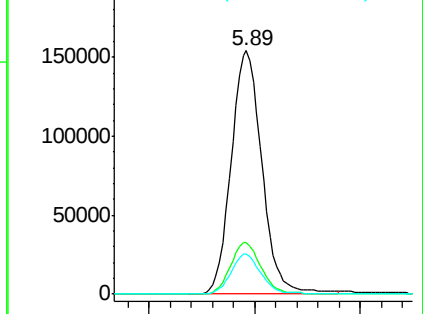
88 16.5 0.0 31.0



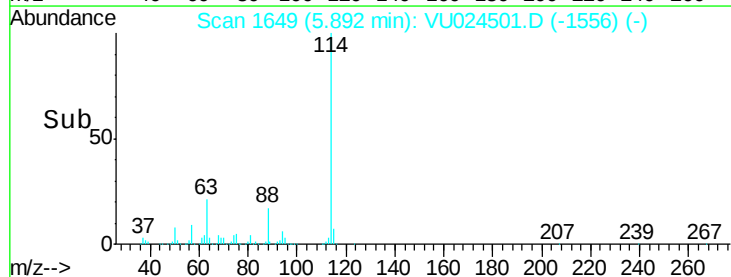
Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



Time-->





#35

Dibromofluoromethane

Concen: 16.213 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

Instrument :

MSVOA_U

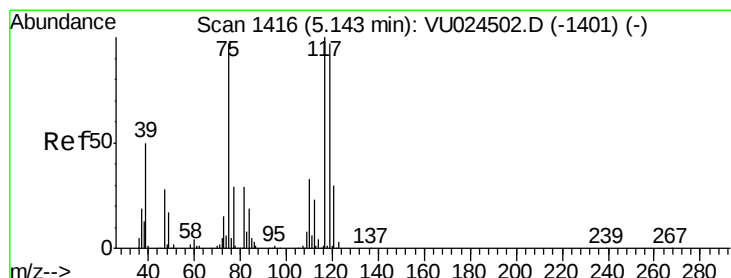
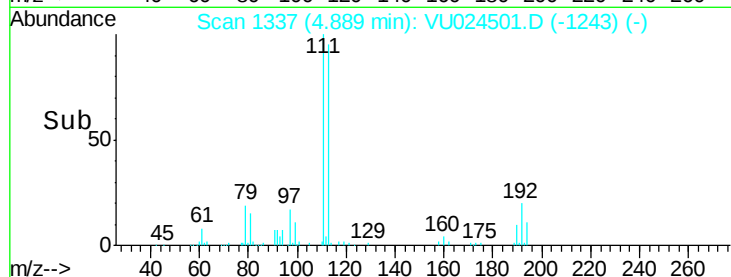
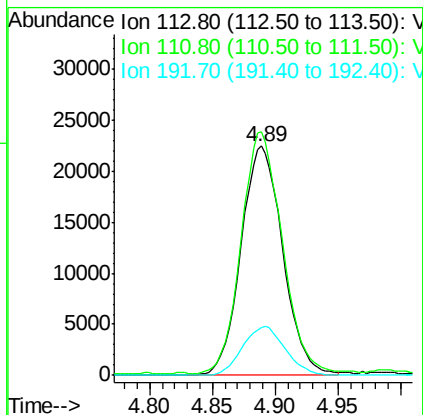
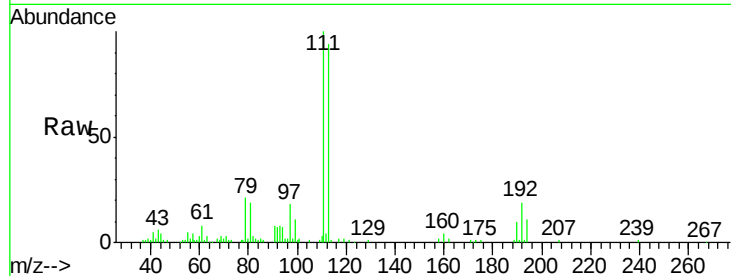
ClientSampleId :

VSTDIC020

Tgt Ion:	113	Resp:	51947
Ion Ratio	Lower	Upper	
113	100		
111	103.6	82.2	123.4
192	21.6	16.2	24.4

Manual Integrations
APPROVED

MMDadoda
6/14/2018 9:44:27 AM



#36

1,1-Dichloropropene

Concen: 15.944 ug/l

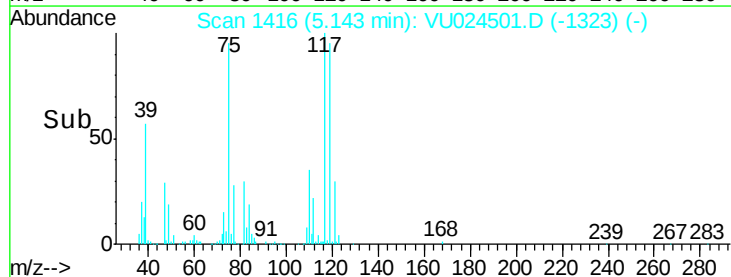
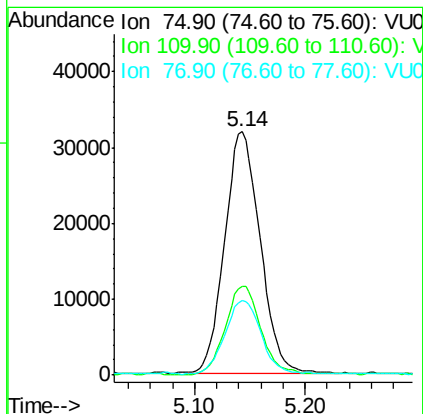
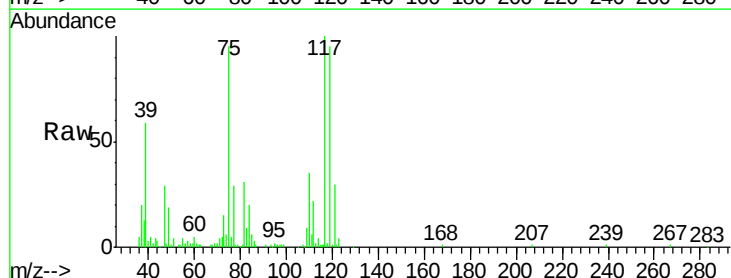
RT: 5.14 min Scan# 1416

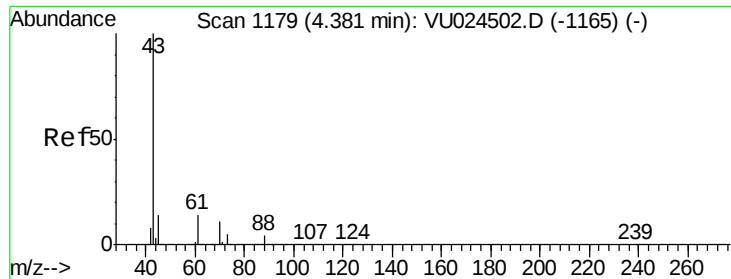
Delta R.T. -0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

Tgt Ion:	75	Resp:	70987
Ion Ratio	Lower	Upper	
75	100		
110	37.1	17.0	50.9
77	31.0	24.2	36.4





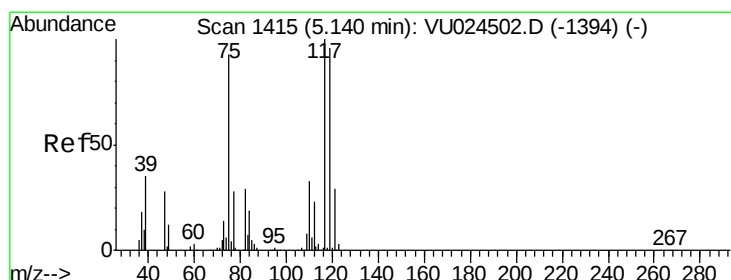
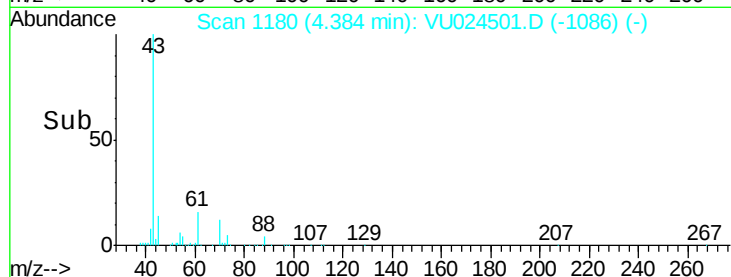
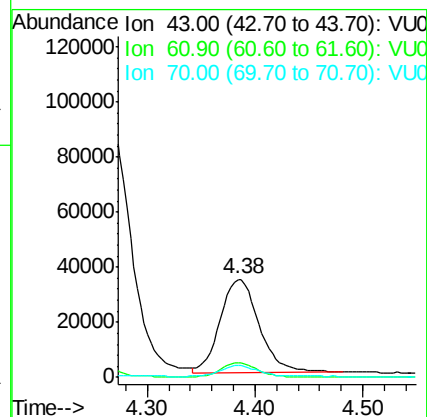
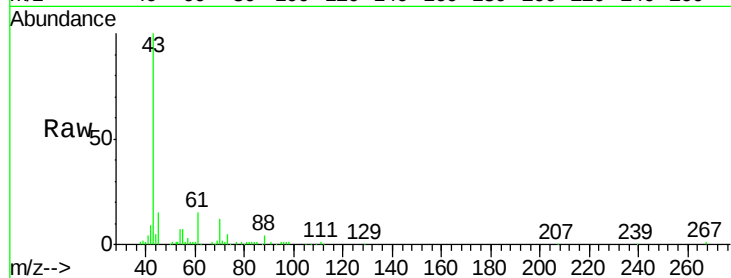
#37
Ethyl Acetate
Concen: 17.082 ug/l
RT: 4.38 min Scan# 1180
Delta R.T. 0.00 min
Lab File: VU024501.D
Acq: 13 Jun 2018 12:19

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion: 43 Resp: 85268
Ion Ratio Lower Upper
43 100
61 13.8 10.5 15.7
70 11.2 7.4 11.2#

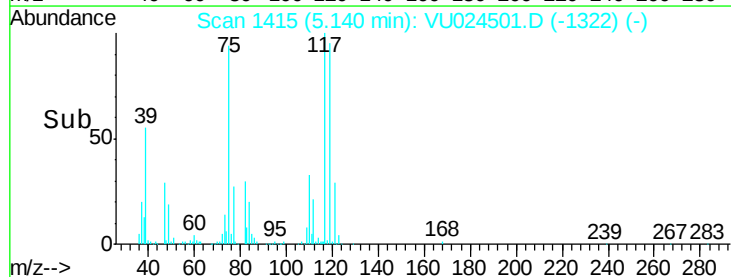
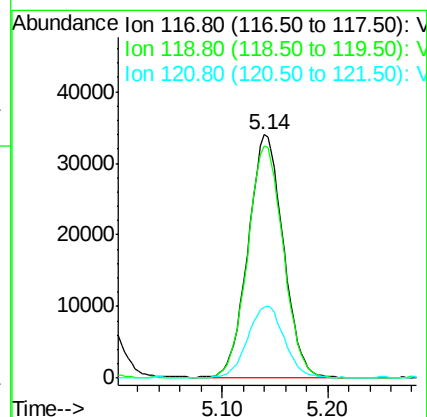
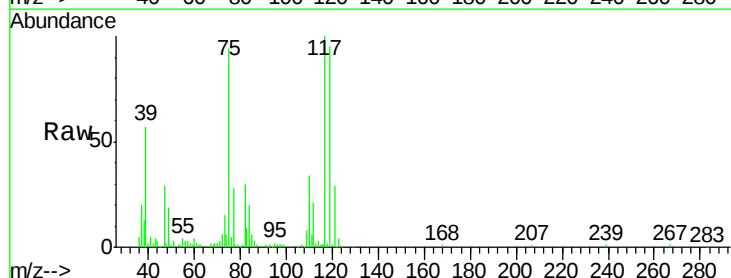
Manual Integrations
APPROVED

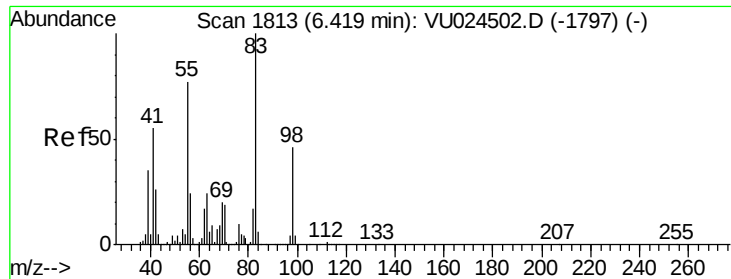
MMDadoda
6/14/2018 9:44:27 AM



#38
Carbon Tetrachloride
Concen: 18.702 ug/l
RT: 5.14 min Scan# 1415
Delta R.T. -0.00 min
Lab File: VU024501.D
Acq: 13 Jun 2018 12:19

Tgt Ion: 117 Resp: 79289
Ion Ratio Lower Upper
117 100
119 95.1 76.1 114.1
121 29.2 23.7 35.5





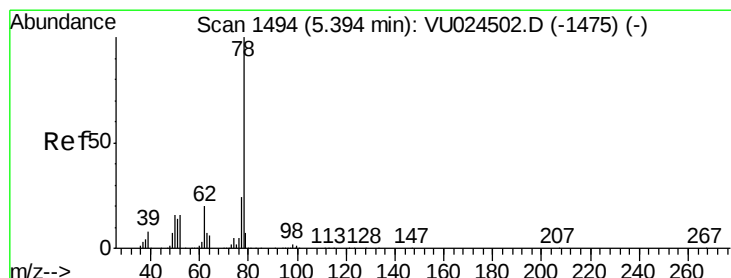
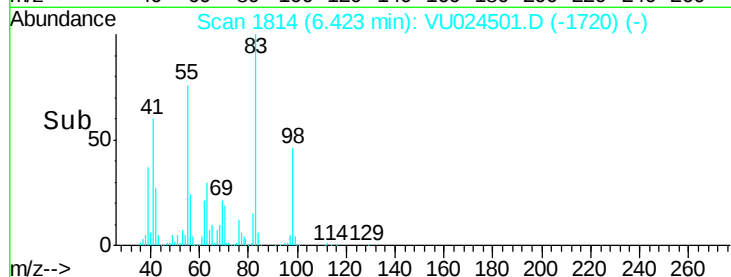
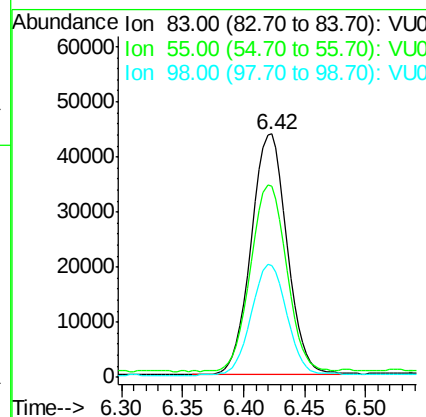
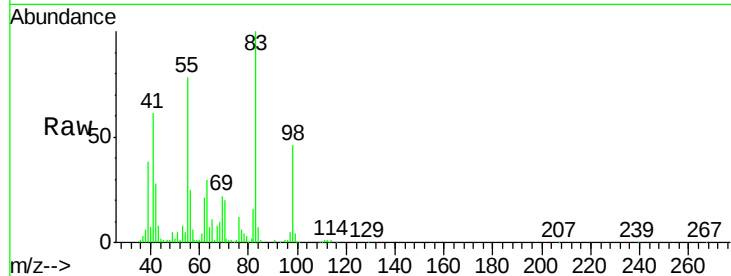
#39
Methylcyclohexane
Concen: 18.496 ug/l
RT: 6.42 min Scan# 1814
Delta R.T. 0.00 min
Lab File: VU024501.D
Acq: 13 Jun 2018 12:19

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	88970		
55	76.7		65.8	98.6
98	45.6		36.7	55.1

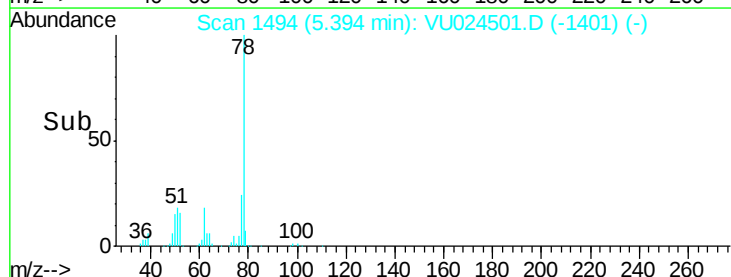
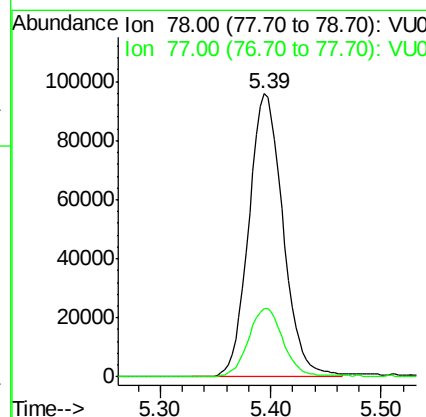
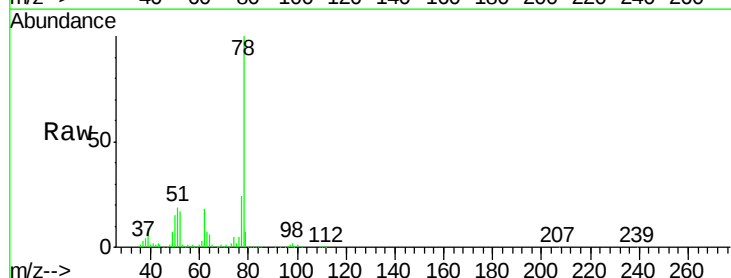
Manual Integrations
APPROVED

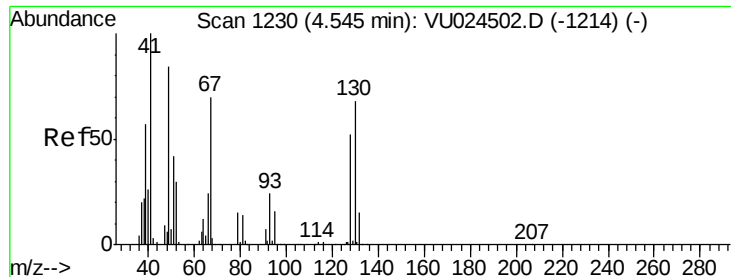
MMDadoda
6/14/2018 9:44:27 AM



#40
Benzene
Concen: 15.413 ug/l
RT: 5.39 min Scan# 1494
Delta R.T. -0.00 min
Lab File: VU024501.D
Acq: 13 Jun 2018 12:19

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	206838		
77	23.8		19.2	28.8





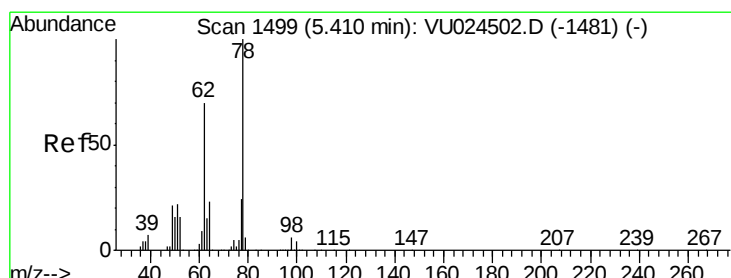
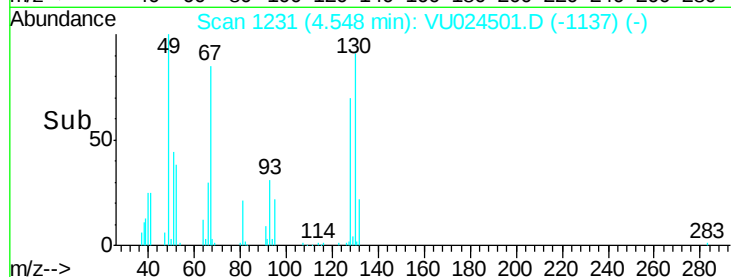
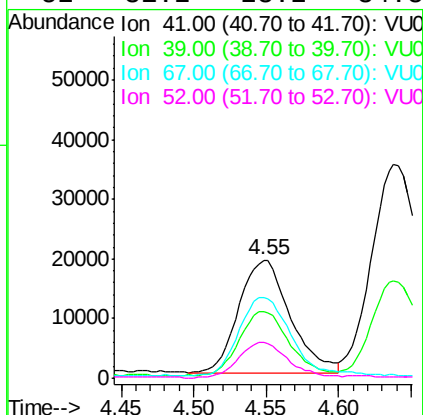
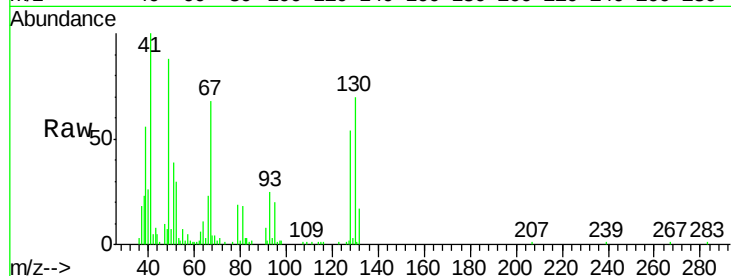
#41
Methacrylonitrile
Concen: 16.542 ug/l
RT: 4.55 min Scan# 1231
Delta R.T. 0.00 min
Lab File: VU024501.D
Acq: 13 Jun 2018 12:19

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
41	100		
39	54.6	43.8	65.6
67	71.7	56.3	84.5
52	31.2	23.2	34.8

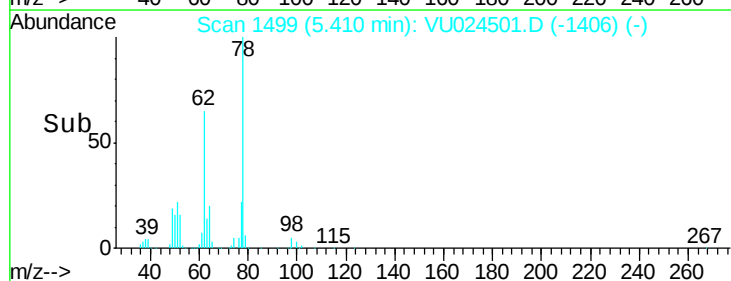
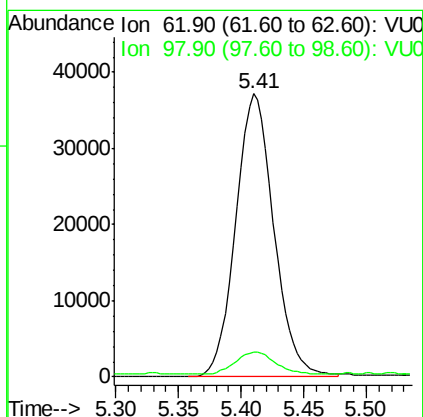
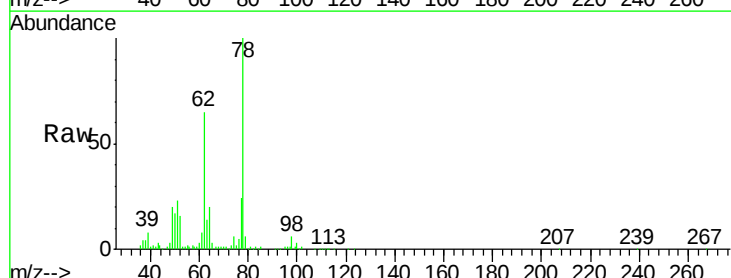
Manual Integrations
APPROVED

MMDadoda
6/14/2018 9:44:27 AM



#42
1,2-Dichloroethane
Concen: 15.332 ug/l
RT: 5.41 min Scan# 1499
Delta R.T. -0.00 min
Lab File: VU024501.D
Acq: 13 Jun 2018 12:19

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.0	0.0	16.6





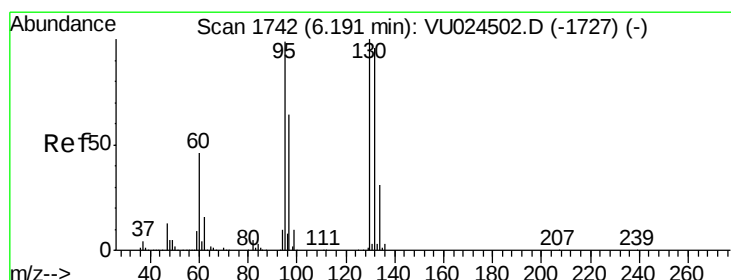
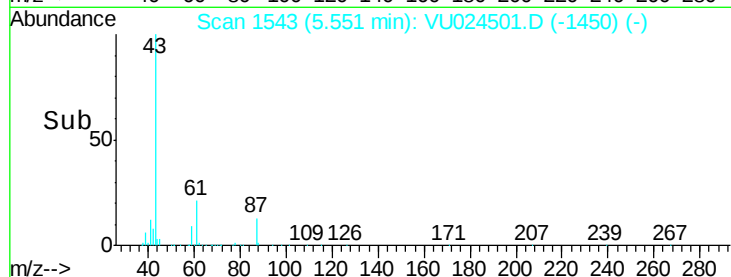
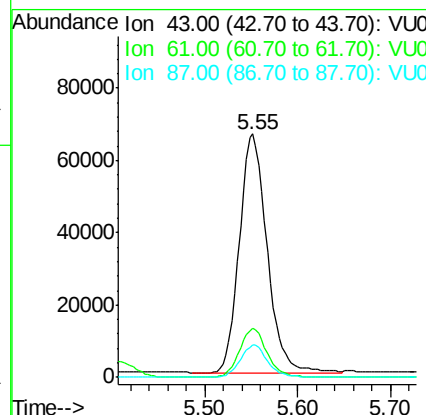
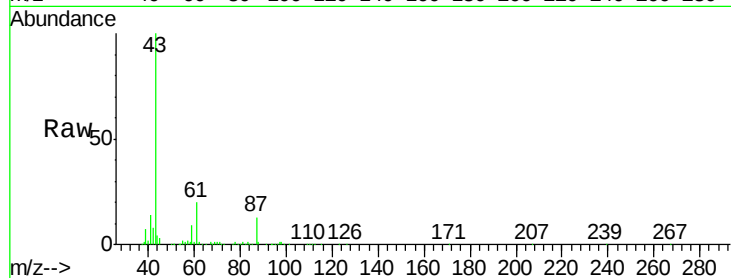
#43
Isopropyl Acetate
Concen: 18.194 ug/l
RT: 5.55 min Scan# 1543
Delta R.T. -0.00 min
Lab File: VU024501.D
Acq: 13 Jun 2018 12:19

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
43	100		
61	20.2	15.4	23.0
87	13.2	10.0	15.0

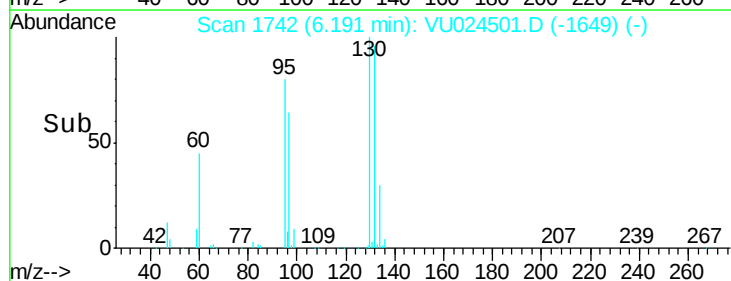
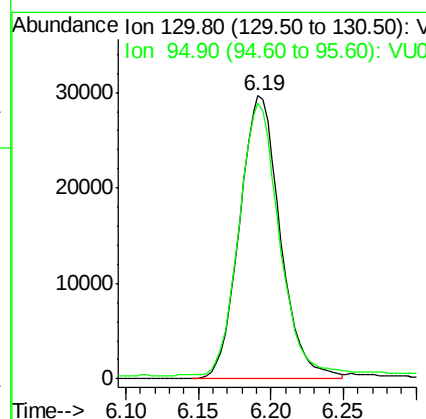
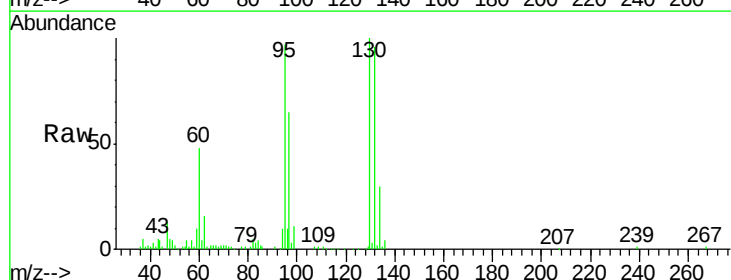
Manual Integrations
APPROVED

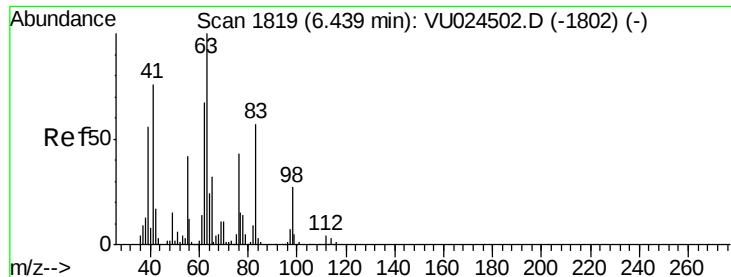
MMDadoda
6/14/2018 9:44:27 AM



#44
Trichloroethene
Concen: 16.538 ug/l
RT: 6.19 min Scan# 1742
Delta R.T. -0.00 min
Lab File: VU024501.D
Acq: 13 Jun 2018 12:19

Tgt Ion	Ratio	Lower	Upper
130	100		
95	95.5	0.0	202.4





#45

1,2-Dichloropropane

Concen: 15.448 ug/l

RT: 6.44 min Scan# 1819

Delta R.T. -0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tgt Ion: 63 Resp: 55715

Ion Ratio Lower Upper

63 100

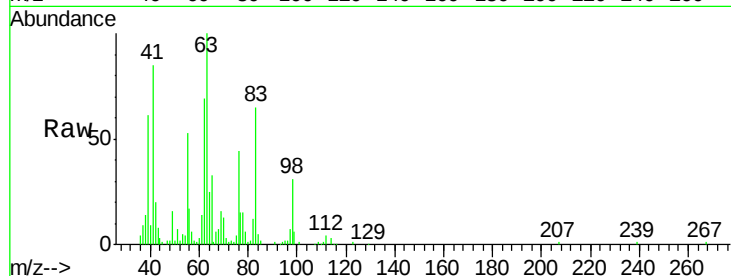
65 32.7 24.8 37.2

Manual Integrations

APPROVED

MMDadoda

6/14/2018 9:44:27 AM



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 64.90 (64.60 to 65.60): VU0

6.44

30000

25000

20000

15000

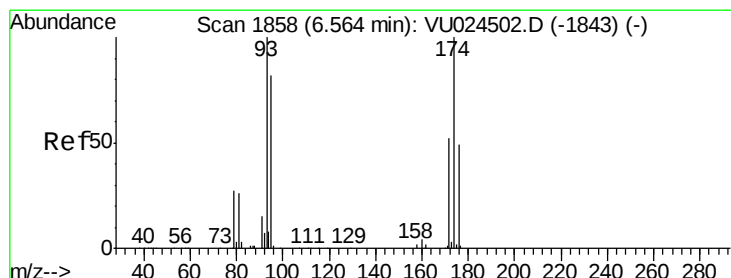
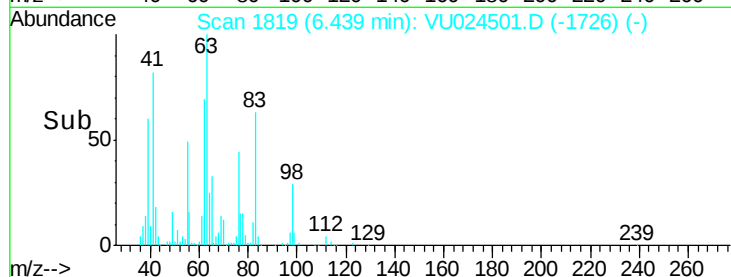
10000

5000

0

6.35 6.40 6.45 6.50 6.55

Time-->



#46

Dibromomethane

Concen: 16.337 ug/l

RT: 6.56 min Scan# 1858

Delta R.T. -0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

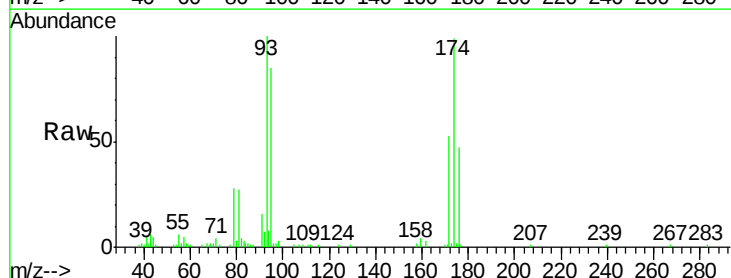
Tgt Ion: 93 Resp: 39006

Ion Ratio Lower Upper

93 100

95 84.0 65.5 98.3

174 102.5 78.7 118.1



Abundance Ion 92.80 (92.50 to 93.50): VU0

Ion 94.80 (94.50 to 95.50): VU0

Ion 173.70 (173.40 to 174.40): V

25000

20000

15000

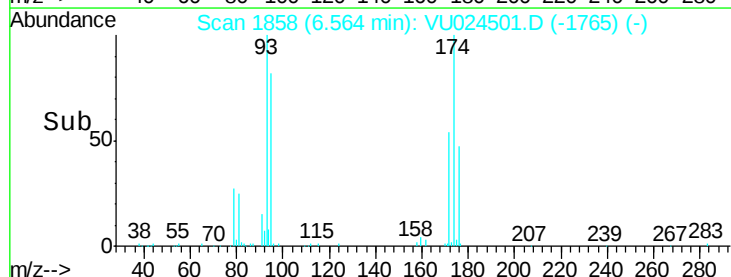
10000

5000

0

6.50 6.55 6.60 6.65

Time-->





#47

Bromodichloromethane

Concen: 16.668 ug/l

RT: 6.76 min Scan# 1919

Delta R.T. -0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

Instrument :

MSVOA_U

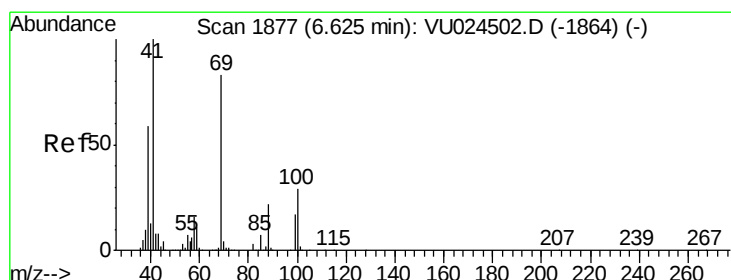
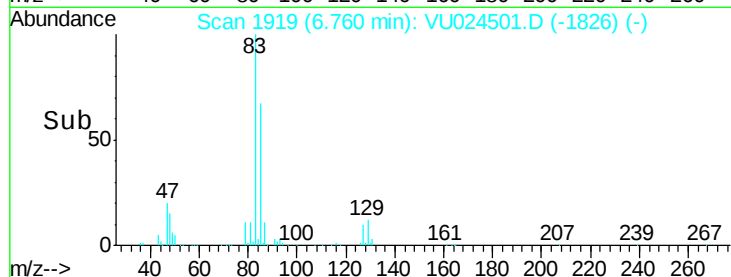
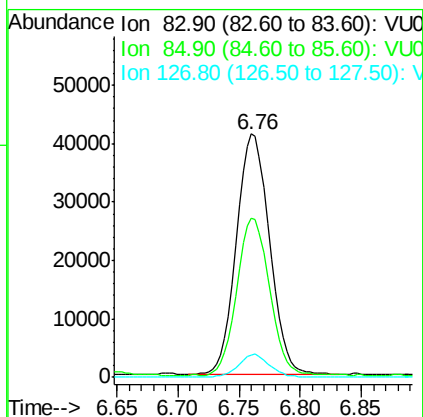
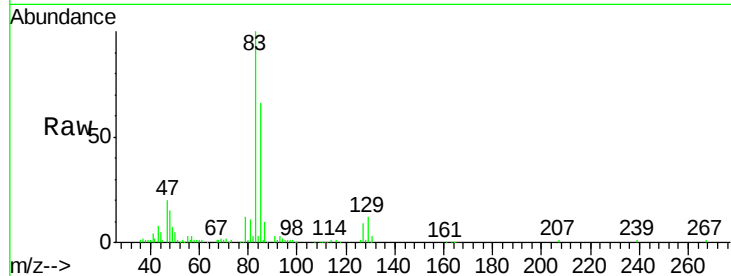
ClientSampleId :

VSTDIC020

Tgt Ion:	83	Resp:	76999
Ion	Ratio	Lower	Upper
83	100		
85	65.6	51.9	77.9
127	9.4	6.6	9.8

Manual Integrations
APPROVED

MMDadoda
6/14/2018 9:44:27 AM



#48

Methyl methacrylate

Concen: 18.051 ug/l

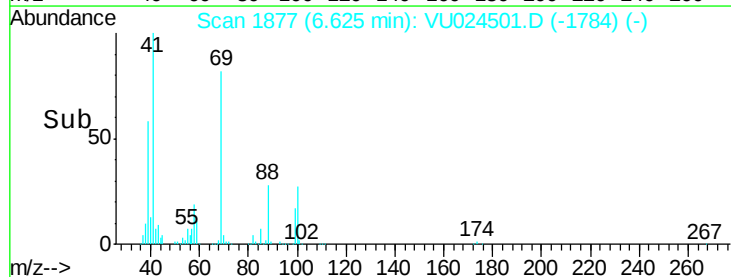
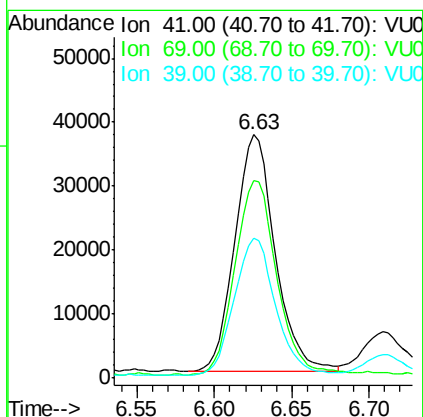
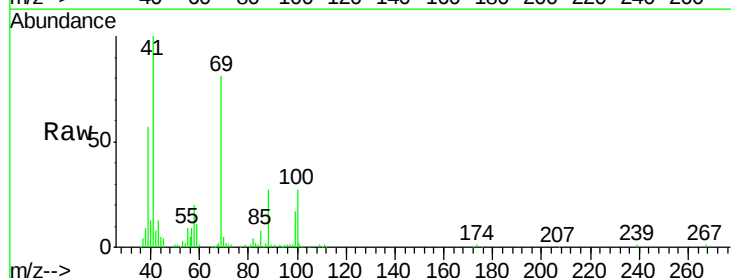
RT: 6.63 min Scan# 1877

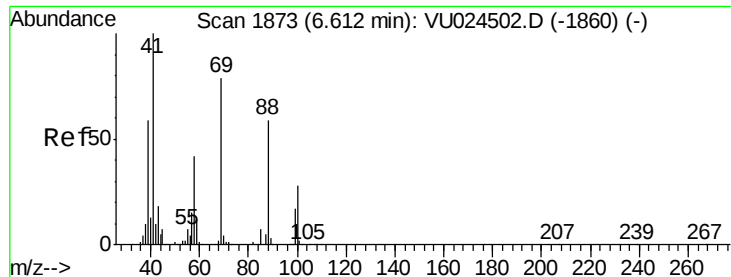
Delta R.T. -0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

Tgt Ion:	41	Resp:	67277
Ion	Ratio	Lower	Upper
41	100		
69	84.7	67.3	100.9
39	59.6	46.5	69.7





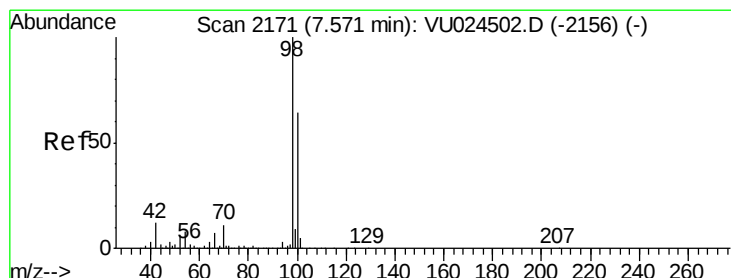
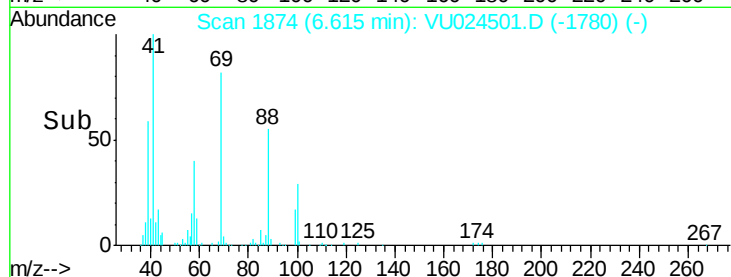
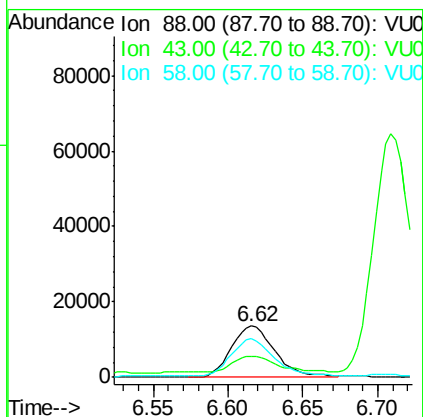
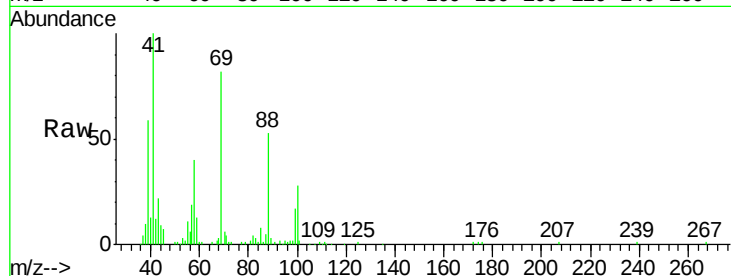
#49
1,4-Dioxane
Concen: 352.644 ug/l
RT: 6.62 min Scan# 1874
Delta R.T. 0.00 min
Lab File: VU024501.D
Acq: 13 Jun 2018 12:19

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
88	100		
43	32.1	28.6	42.8
58	71.5	58.2	87.4

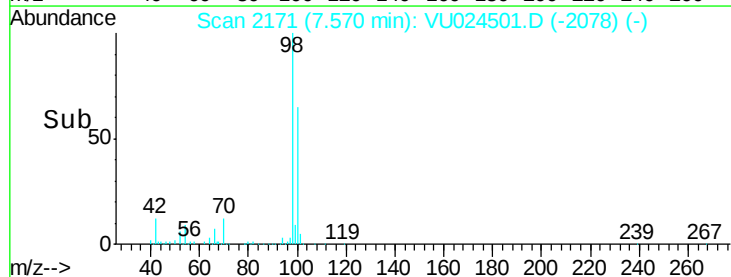
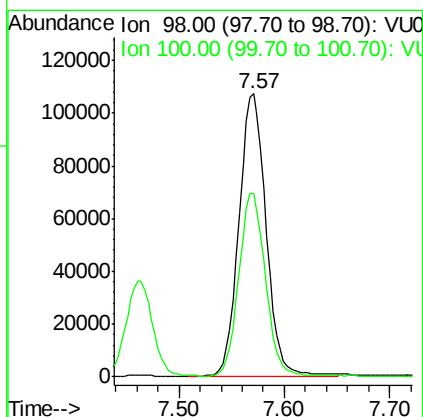
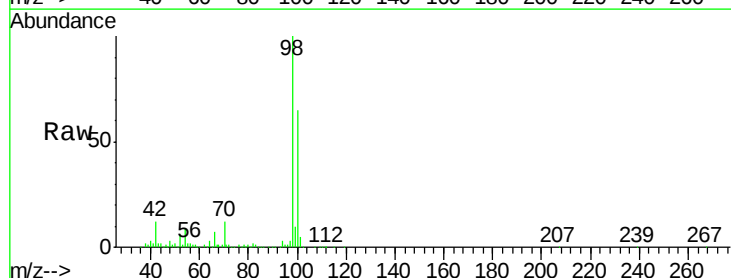
Manual Integrations
APPROVED

MMDadoda
6/14/2018 9:44:27 AM



#50
Toluene-d8
Concen: 15.917 ug/l
RT: 7.57 min Scan# 2171
Delta R.T. -0.00 min
Lab File: VU024501.D
Acq: 13 Jun 2018 12:19

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.5	51.1	76.7





#51

4-Methyl-2-Pentanone

Concen: 80.567 ug/l

RT: 7.46 min Scan# 2137

Delta R.T. -0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 441909

Ion Ratio Lower Upper

43 100

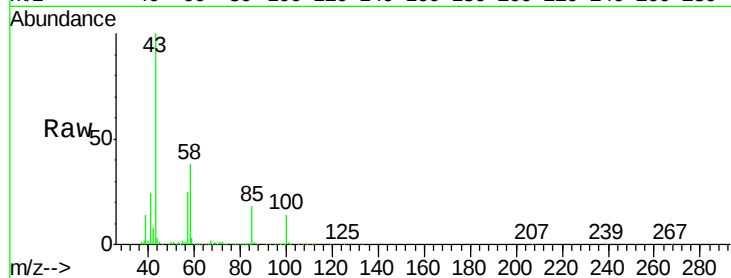
58 38.2 30.0 45.0

Manual Integrations

APPROVED

MMDadoda

6/14/2018 9:44:27 AM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

7.46

250000

200000

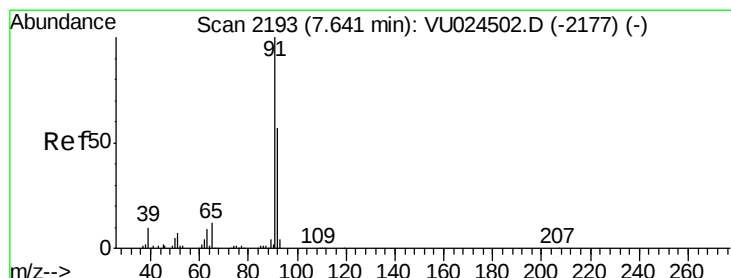
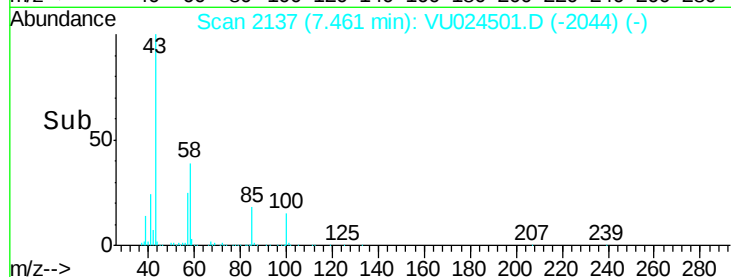
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 16.168 ug/l

RT: 7.64 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VU024501.D

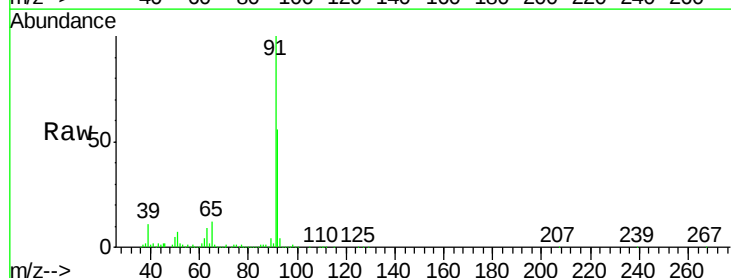
Acq: 13 Jun 2018 12:19

Tgt Ion: 92 Resp: 128763

Ion Ratio Lower Upper

92 100

91 178.1 140.5 210.7



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0

7.64

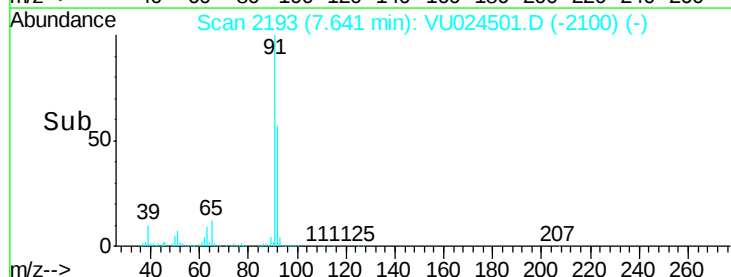
150000

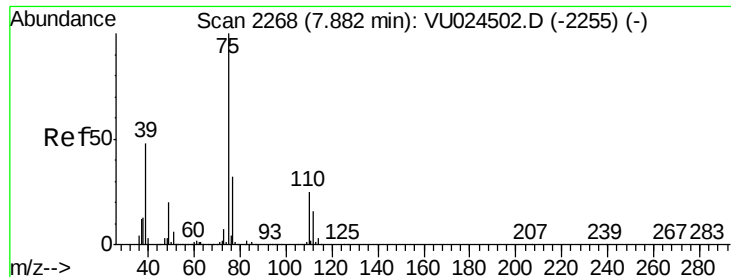
100000

50000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 17.910 ug/l

RT: 7.88 min Scan# 2268

Delta R.T. -0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tgt Ion: 75 Resp: 86038

Ion Ratio Lower Upper

75 100

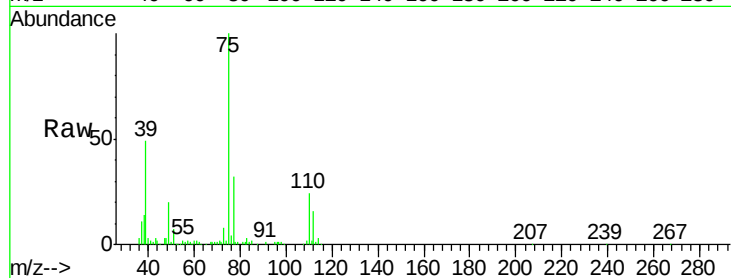
77 31.6 24.8 37.2

Manual Integrations

APPROVED

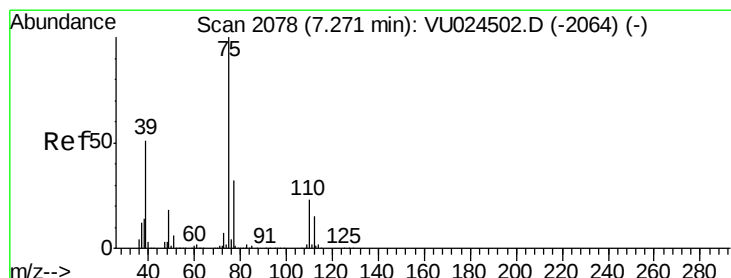
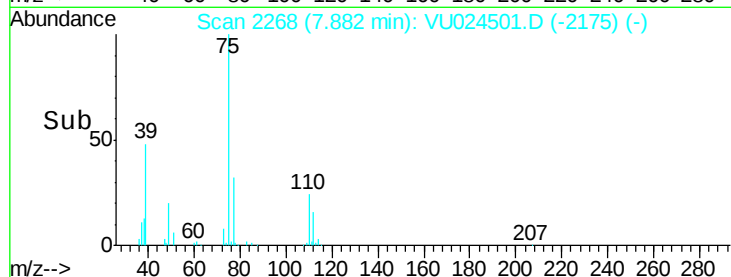
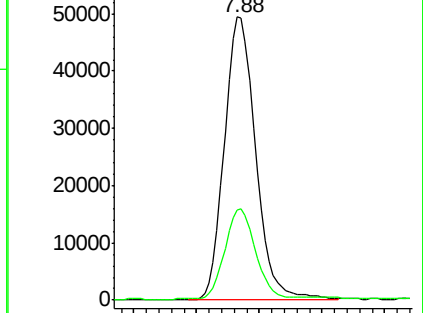
MMDadoda

6/14/2018 9:44:27 AM



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0



#54

cis-1,3-Dichloropropene

Concen: 17.220 ug/l

RT: 7.27 min Scan# 2079

Delta R.T. 0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

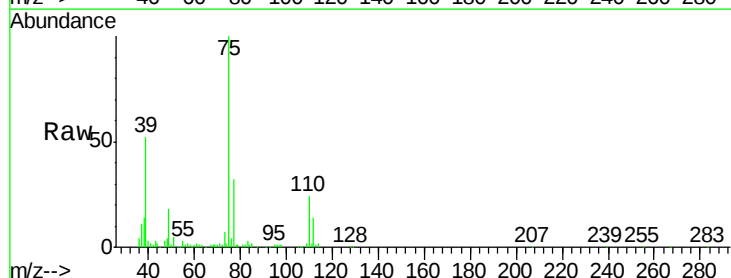
Tgt Ion: 75 Resp: 90260

Ion Ratio Lower Upper

75 100

77 32.2 24.6 36.8

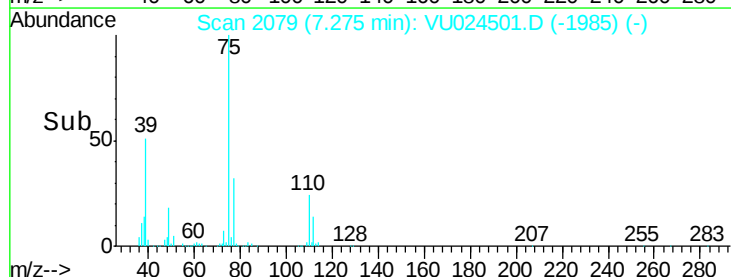
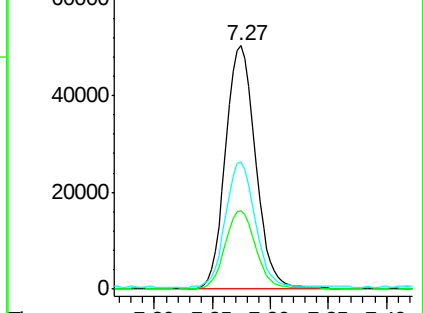
39 51.4 39.8 59.6

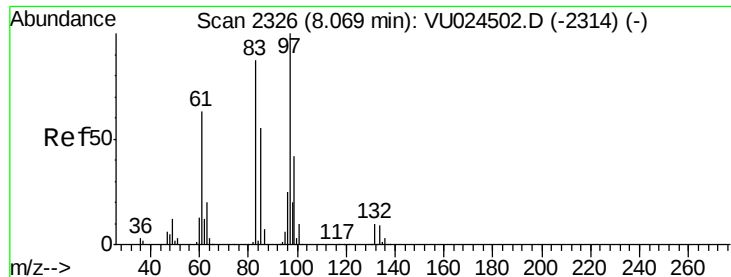


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0





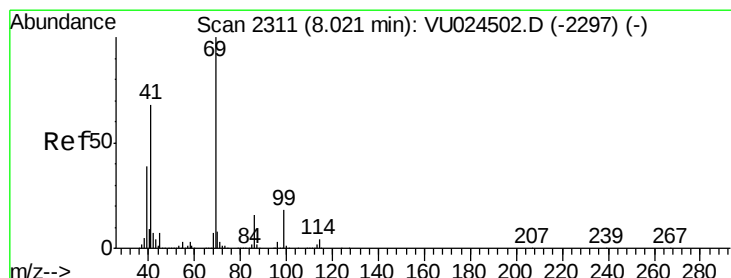
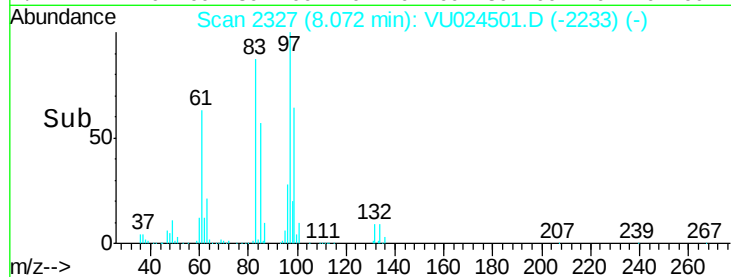
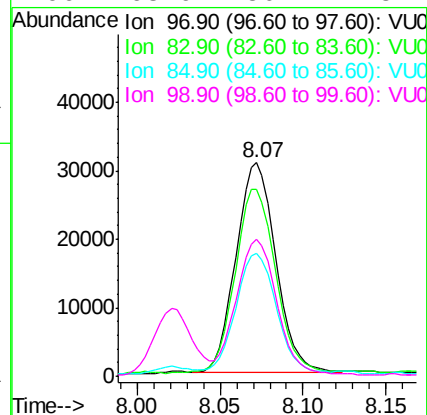
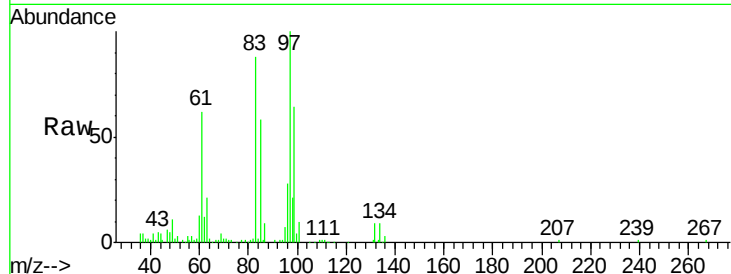
#55
 1,1,2-Trichloroethane
 Concen: 15.005 ug/l
 RT: 8.07 min Scan# 2327
 Delta R.T. 0.00 min
 Lab File: VU024501.D
 Acq: 13 Jun 2018 12:19

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tgt Ion:	97	Resp:	51267
Ion	Ratio	Lower	Upper
97	100		
83	86.9	70.5	105.7
85	56.5	46.4	69.6
99	63.9	50.2	75.2

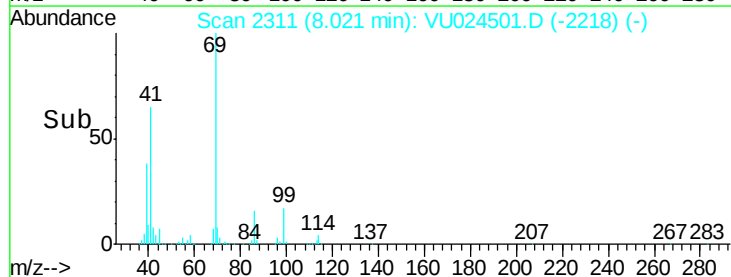
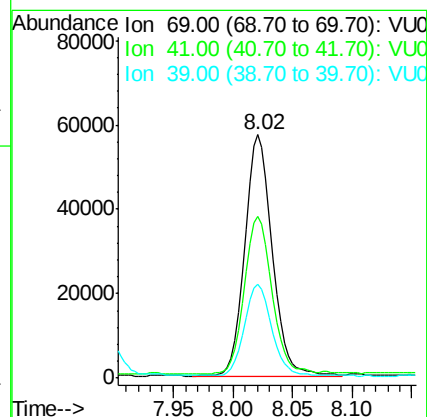
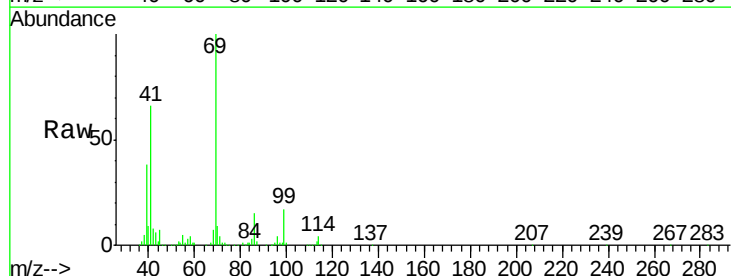
Manual Integrations
 APPROVED

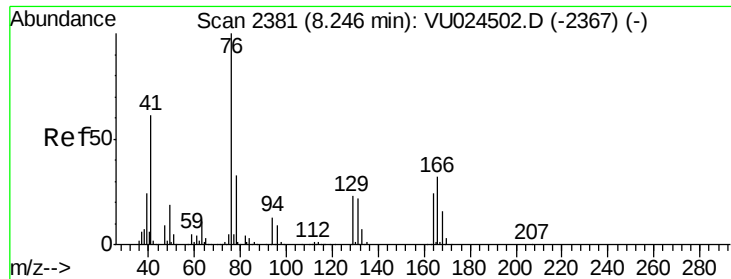
MMDadoda
 6/14/2018 9:44:27 AM



#56
 Ethyl methacrylate
 Concen: 20.513 ug/l
 RT: 8.02 min Scan# 2311
 Delta R.T. -0.00 min
 Lab File: VU024501.D
 Acq: 13 Jun 2018 12:19

Tgt Ion:	69	Resp:	91343
Ion	Ratio	Lower	Upper
69	100		
41	65.7	54.1	81.1
39	37.4	30.3	45.5





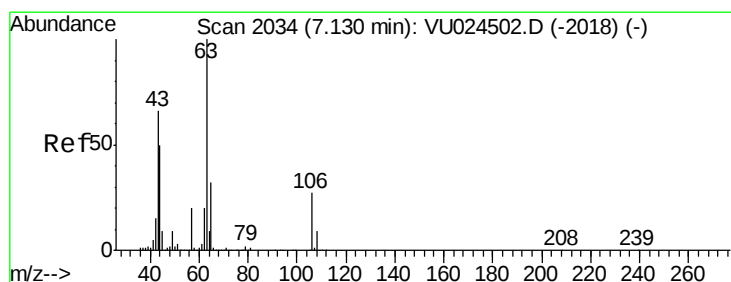
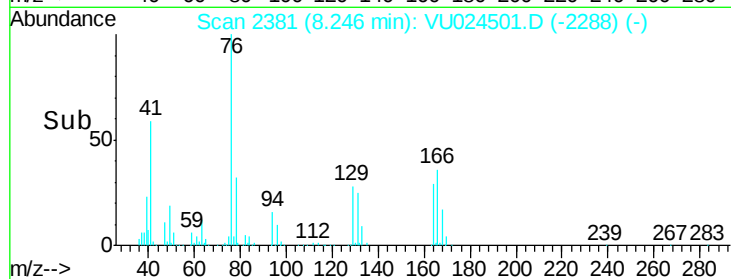
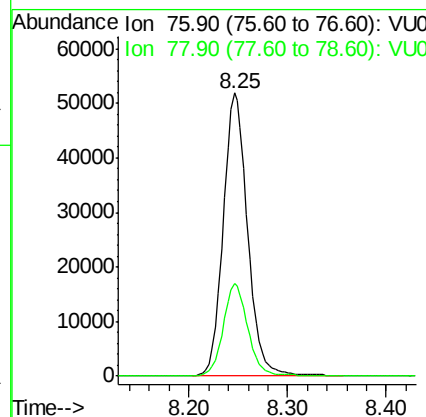
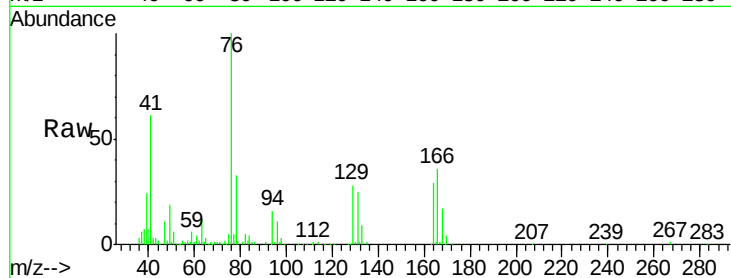
#57
 1,3-Dichloropropane
 Concen: 15.358 ug/l
 RT: 8.25 min Scan# 2381
 Delta R.T. -0.00 min
 Lab File: VU024501.D
 Acq: 13 Jun 2018 12:19

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tgt Ion: 76 Resp: 90111
 Ion Ratio Lower Upper
 76 100
 78 32.6 25.2 37.8

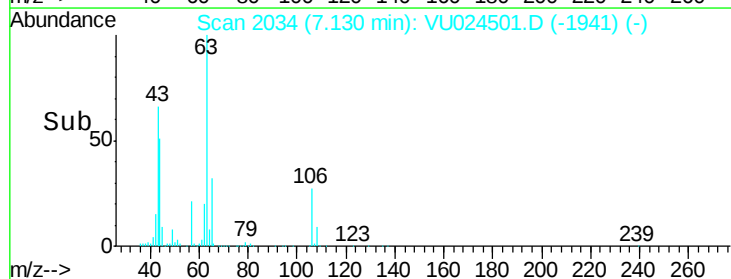
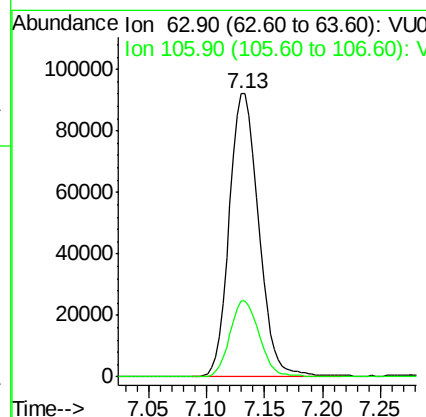
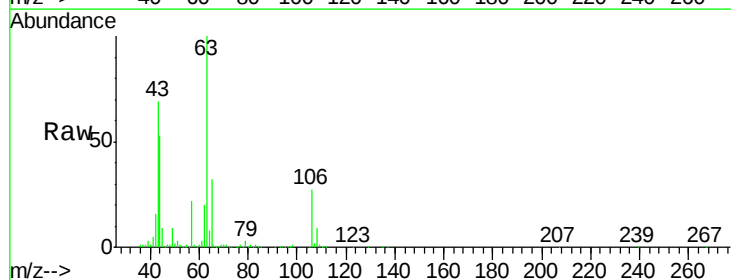
Manual Integrations
 APPROVED

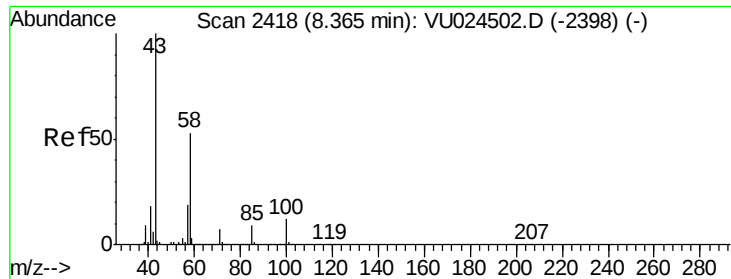
MMDadoda
 6/14/2018 9:44:27 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 71.296 ug/l
 RT: 7.13 min Scan# 2034
 Delta R.T. -0.00 min
 Lab File: VU024501.D
 Acq: 13 Jun 2018 12:19

Tgt Ion: 63 Resp: 163279
 Ion Ratio Lower Upper
 63 100
 106 26.9 20.2 30.2





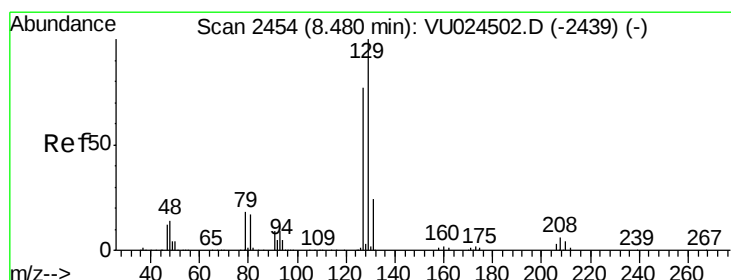
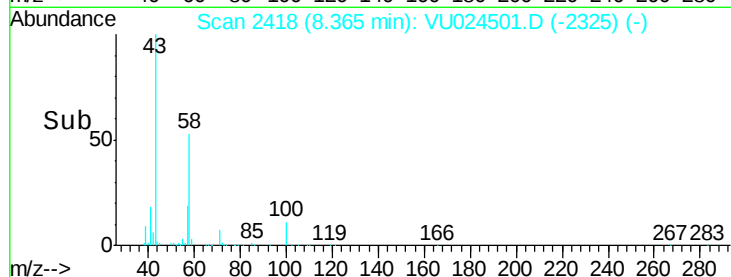
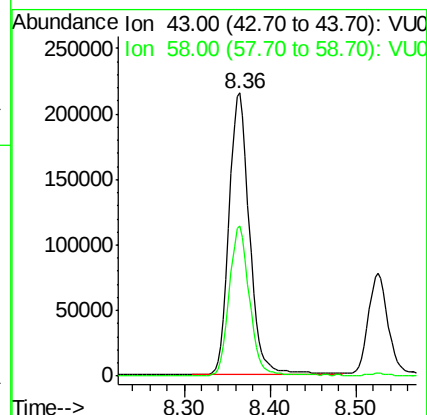
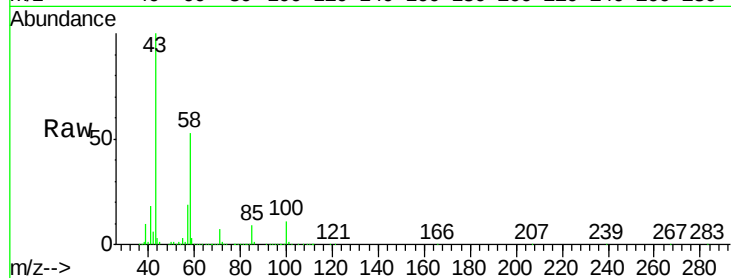
#59
2-Hexanone
Concen: 81.414 ug/l
RT: 8.36 min Scan# 2418
Delta R.T. -0.00 min
Lab File: VU024501.D
Acq: 13 Jun 2018 12:19

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion: 43 Resp: 357269
Ion Ratio Lower Upper
43 100
58 52.5 26.4 79.0

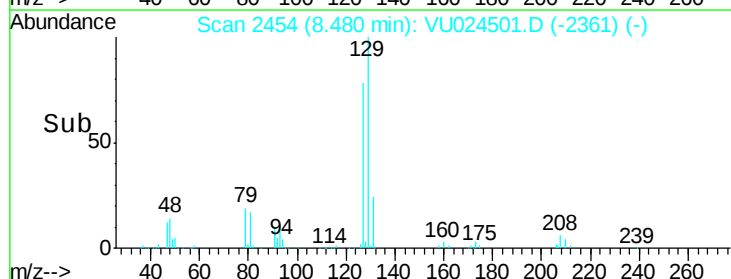
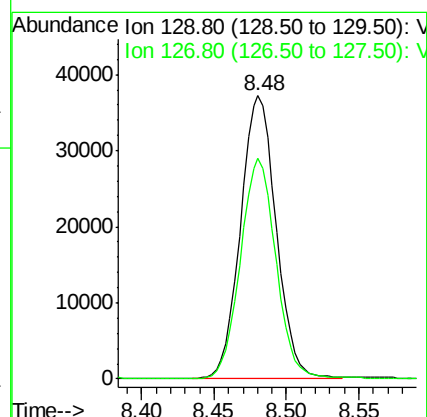
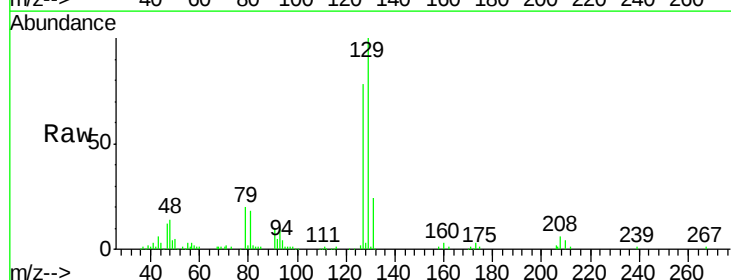
Manual Integrations
APPROVED

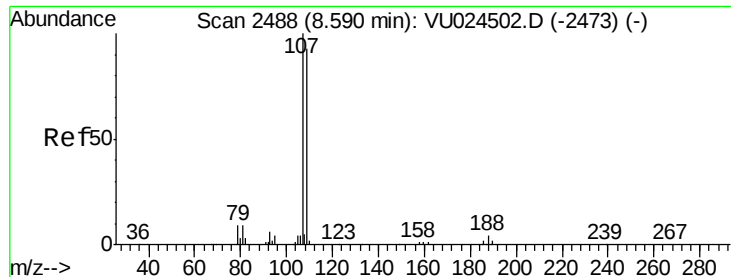
MMDadoda
6/14/2018 9:44:27 AM



#60
Dibromochloromethane
Concen: 18.203 ug/l
RT: 8.48 min Scan# 2454
Delta R.T. -0.00 min
Lab File: VU024501.D
Acq: 13 Jun 2018 12:19

Tgt Ion: 129 Resp: 63104
Ion Ratio Lower Upper
129 100
127 78.4 38.6 116.0





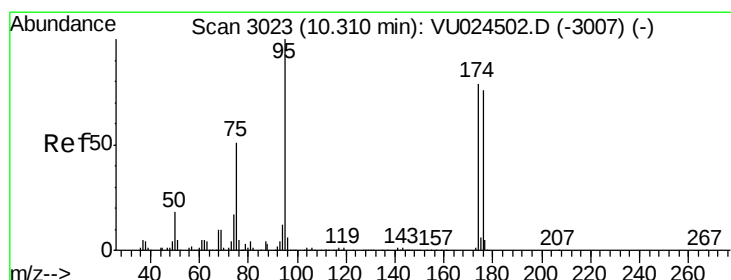
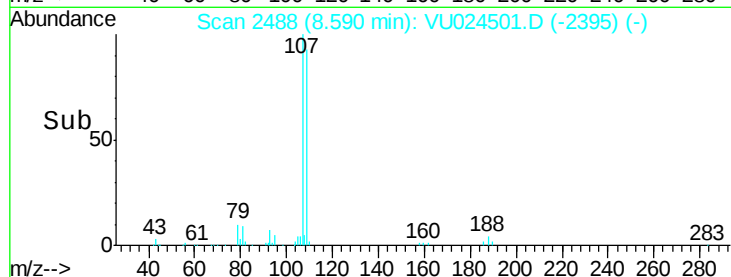
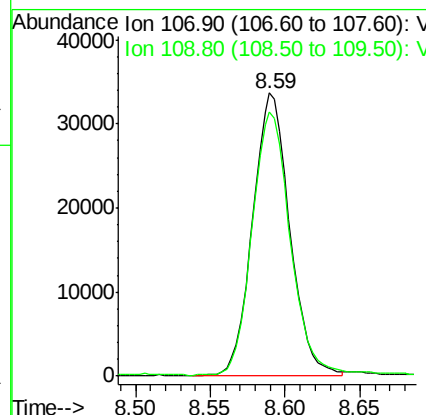
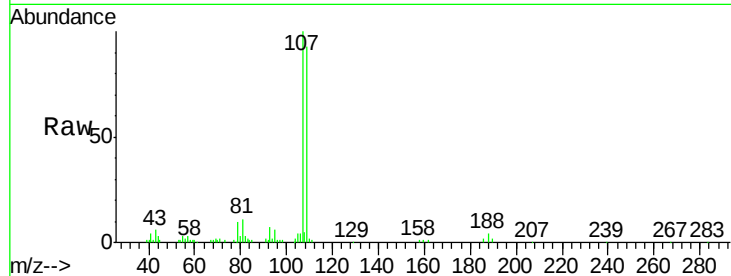
#61
 1,2-Dibromoethane
 Concen: 16.106 ug/l
 RT: 8.59 min Scan# 2488
 Delta R.T. -0.00 min
 Lab File: VU024501.D
 Acq: 13 Jun 2018 12:19

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
107	100	57555		
109	96.4	74.5	111.7	

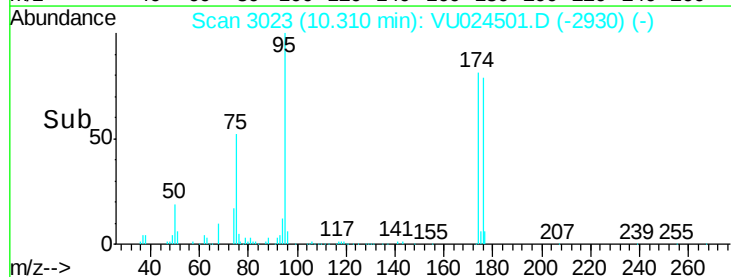
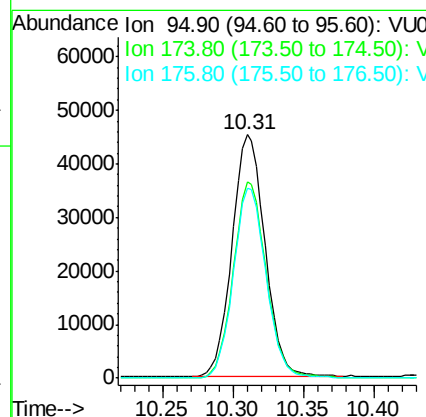
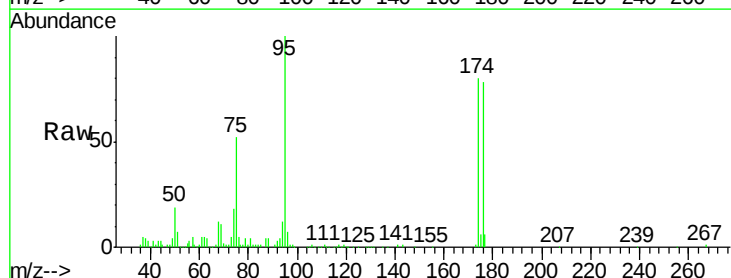
Manual Integrations
 APPROVED

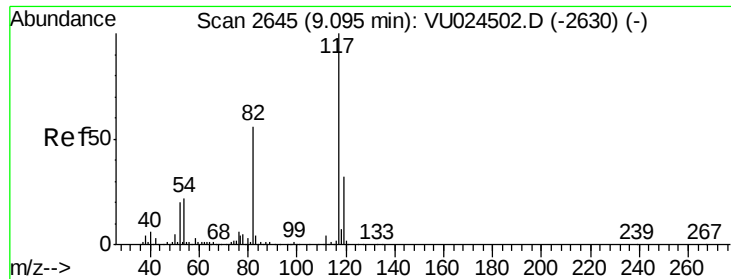
MMDadoda
 6/14/2018 9:44:27 AM



#62
 4-Bromofluorobenzene
 Concen: 16.849 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.00 min
 Lab File: VU024501.D
 Acq: 13 Jun 2018 12:19

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	73533		
174	81.5	0.0	165.8	
176	78.6	0.0	159.4	





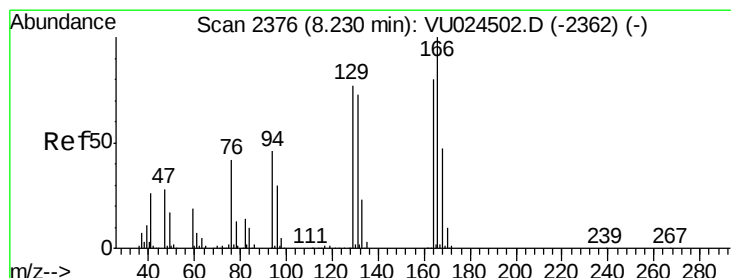
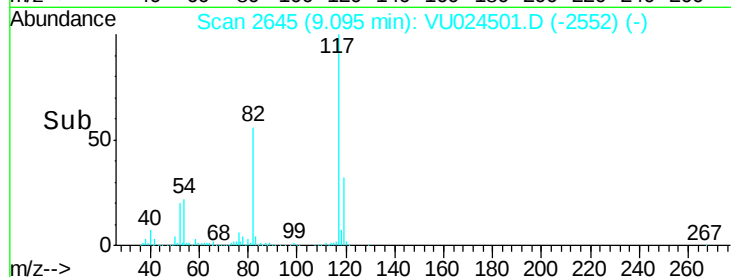
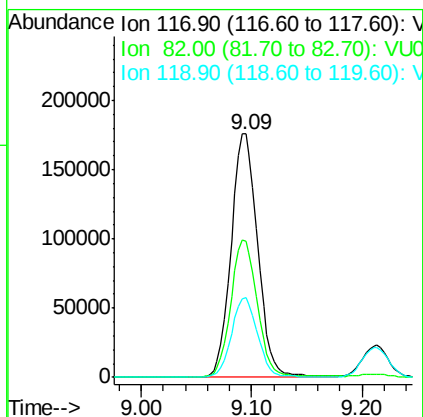
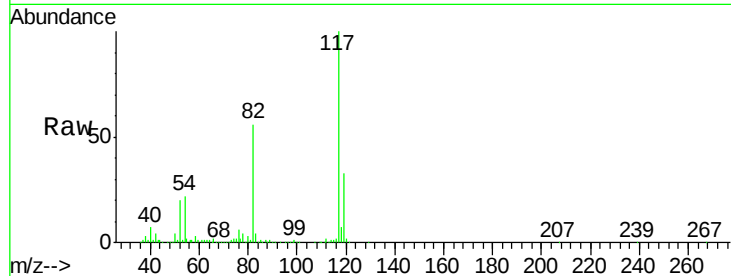
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VU024501.D
Acq: 13 Jun 2018 12:19

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Resp Lower	Resp Upper
117	100		
82	55.8	44.3	66.5
119	32.5	25.4	38.2

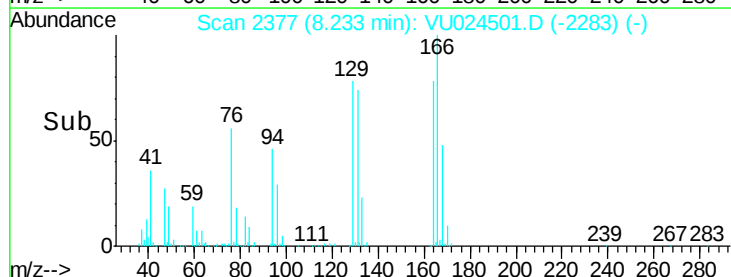
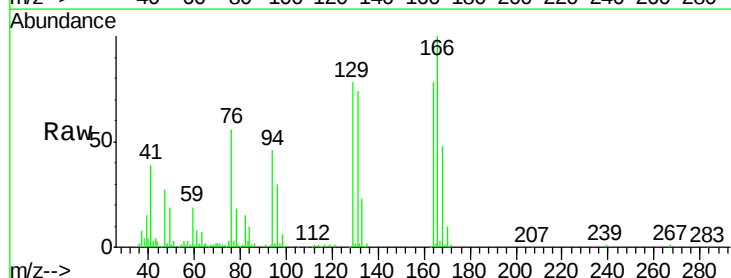
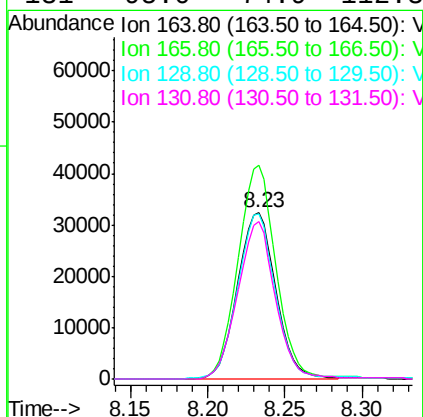
Manual Integrations
APPROVED

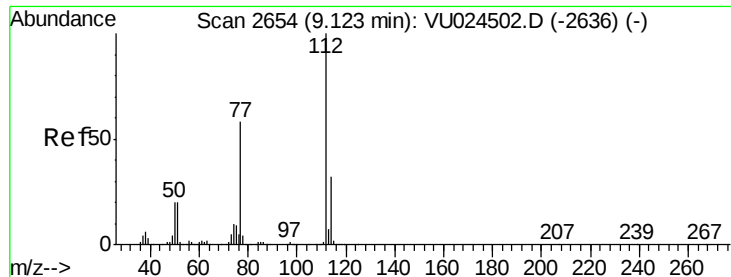
MMDadoda
6/14/2018 9:44:27 AM



#64
Tetrachloroethene
Concen: 19.011 ug/l
RT: 8.23 min Scan# 2377
Delta R.T. 0.00 min
Lab File: VU024501.D
Acq: 13 Jun 2018 12:19

Tgt Ion	Ratio	Resp Lower	Resp Upper
164	100		
166	128.8	101.7	152.5
129	99.6	76.9	115.3
131	95.0	74.9	112.3





#65

Chlorobenzene

Concen: 16.995 ug/l

RT: 9.12 min Scan# 2654

Delta R.T. -0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tgt Ion:112 Resp: 145897

Ion Ratio Lower Upper

112 100

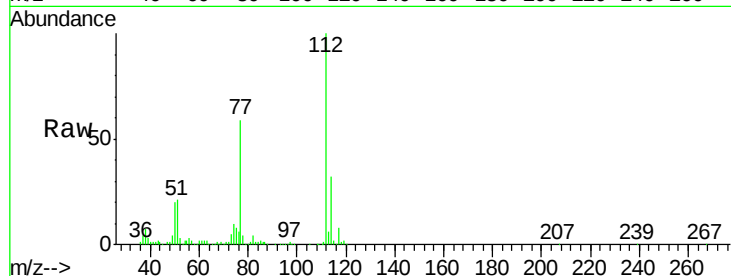
114 32.1 25.6 38.4

Manual Integrations

APPROVED

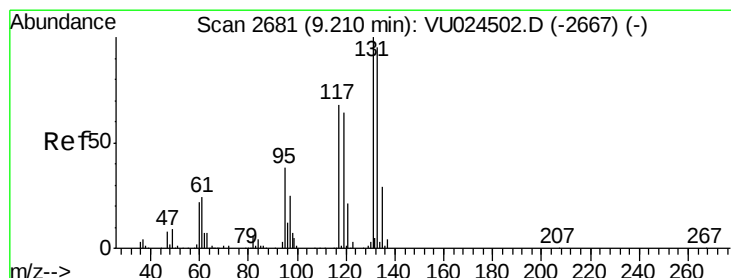
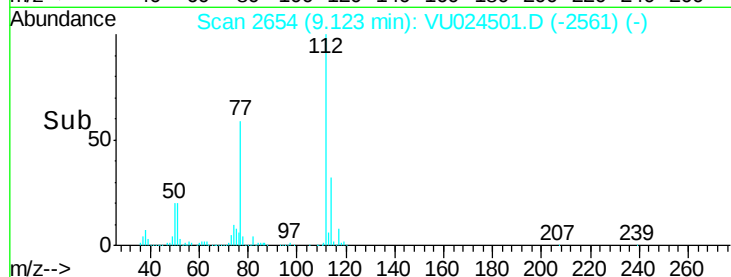
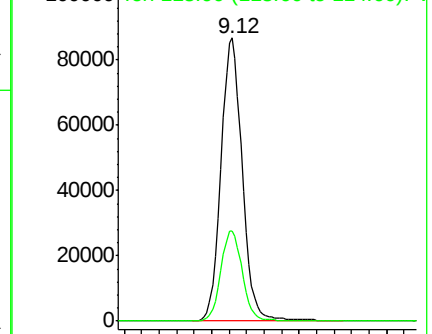
MMDadoda

6/14/2018 9:44:27 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 18.847 ug/l

RT: 9.21 min Scan# 2681

Delta R.T. -0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

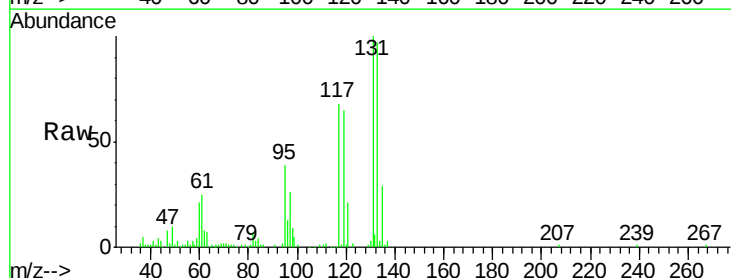
Tgt Ion:131 Resp: 55533

Ion Ratio Lower Upper

131 100

133 95.6 46.9 140.8

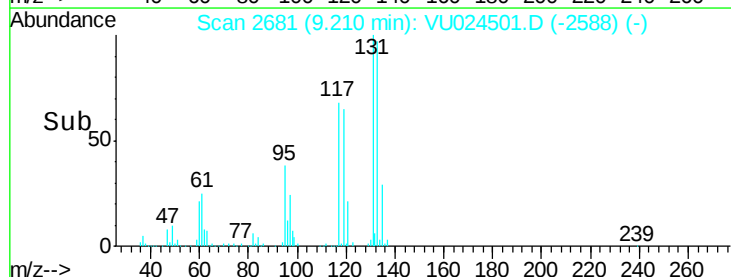
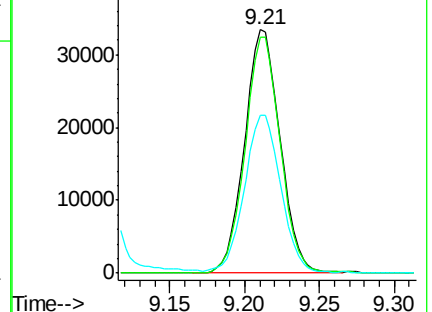
119 65.4 33.5 100.4

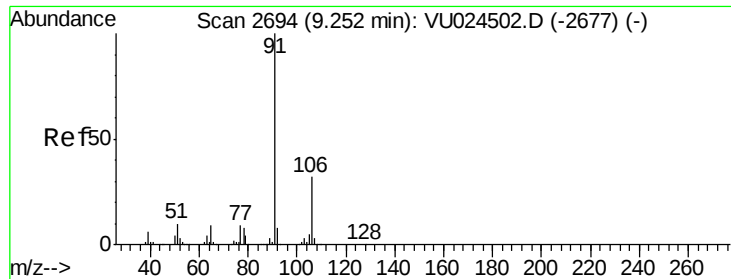


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 18.761 ug/l

RT: 9.25 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 259683

Ion Ratio Lower Upper

91 100

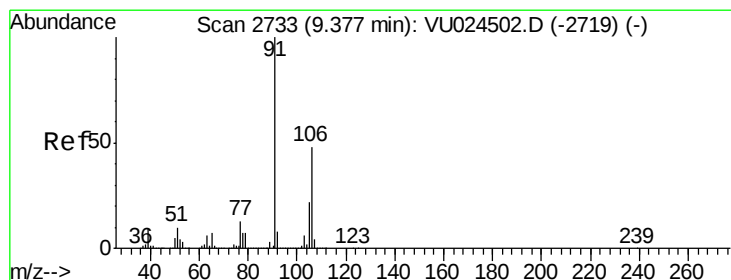
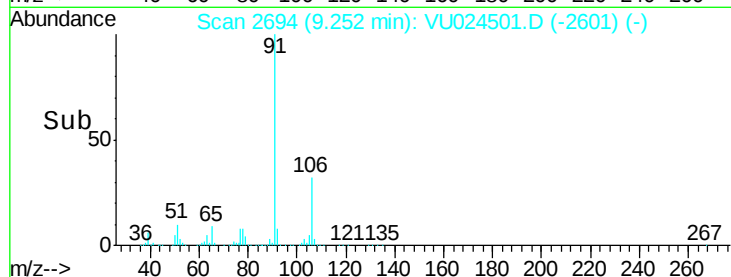
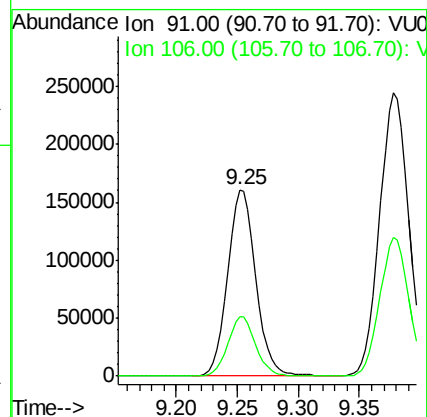
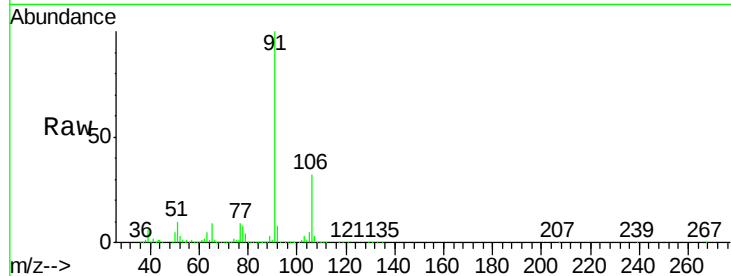
106 32.1 24.2 36.4

Manual Integrations

APPROVED

MMDadoda

6/14/2018 9:44:27 AM



#68

m/p-Xylenes

Concen: 37.579 ug/l

RT: 9.38 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU024501.D

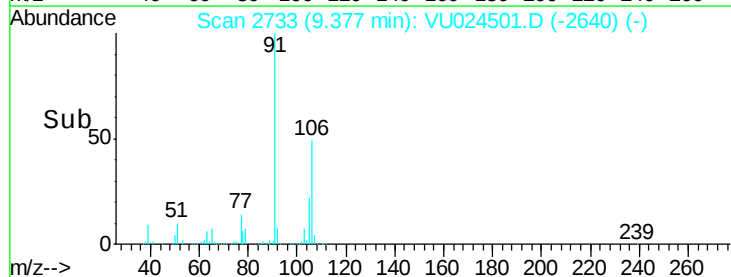
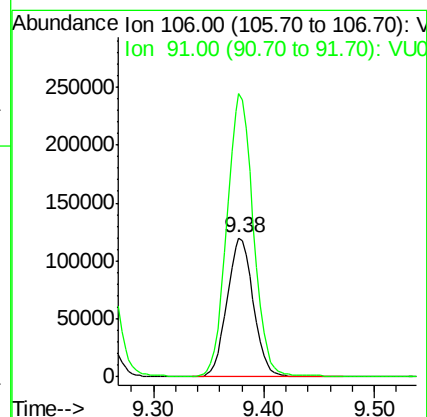
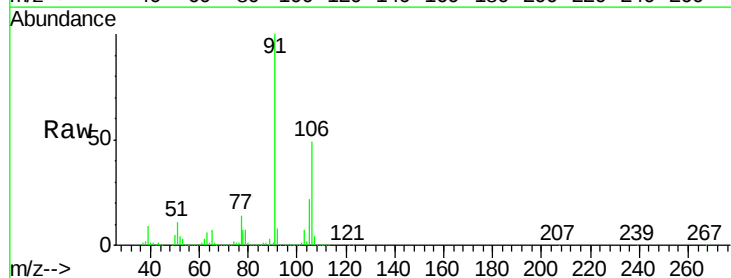
Acq: 13 Jun 2018 12:19

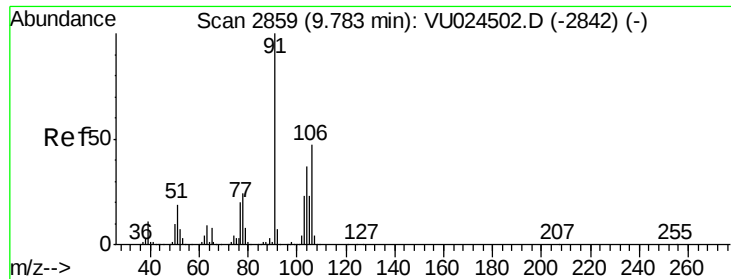
Tgt Ion: 106 Resp: 198140

Ion Ratio Lower Upper

106 100

91 204.4 166.5 249.7





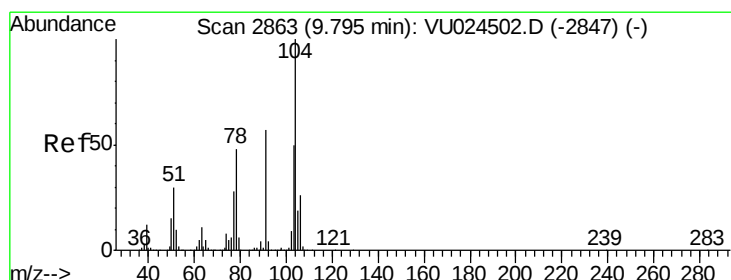
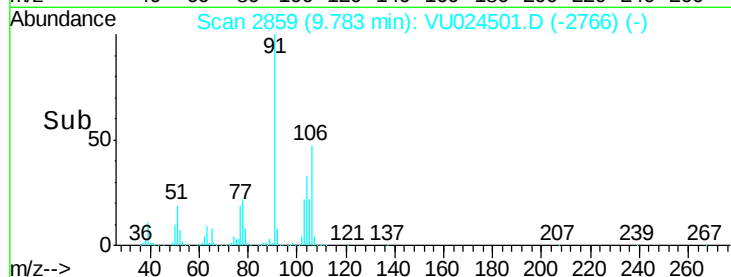
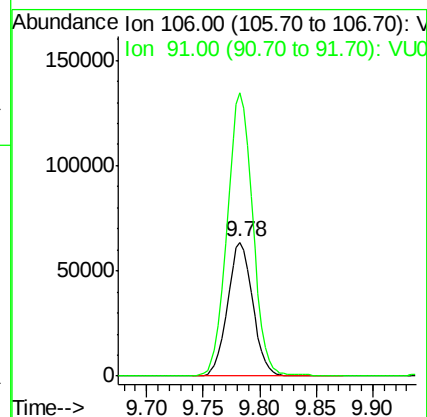
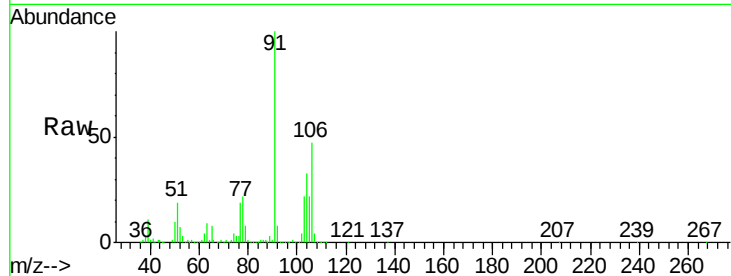
#69
o-Xylene
Concen: 20.302 ug/l
RT: 9.78 min Scan# 2859
Delta R.T. -0.00 min
Lab File: VU024501.D
Acq: 13 Jun 2018 12:19

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion:106 Resp: 98668
Ion Ratio Lower Upper
106 100
91 214.2 110.7 331.9

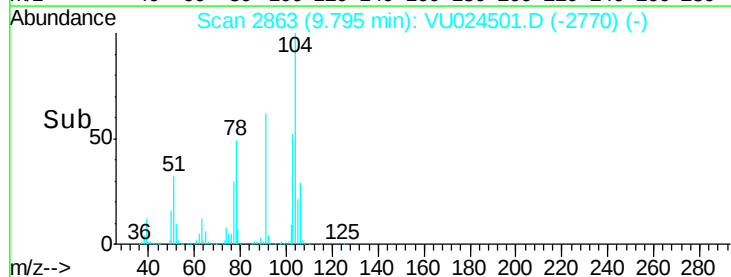
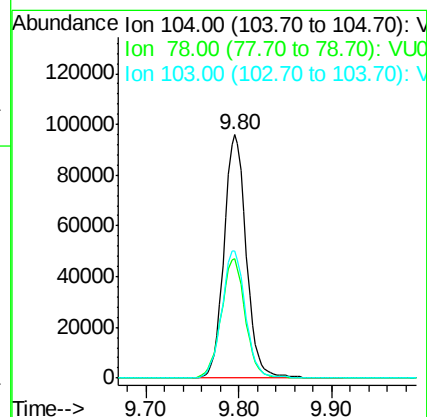
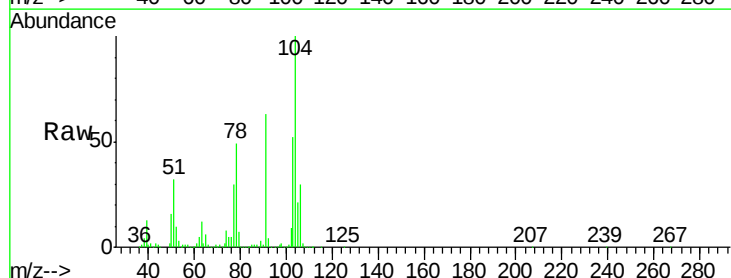
Manual Integrations
APPROVED

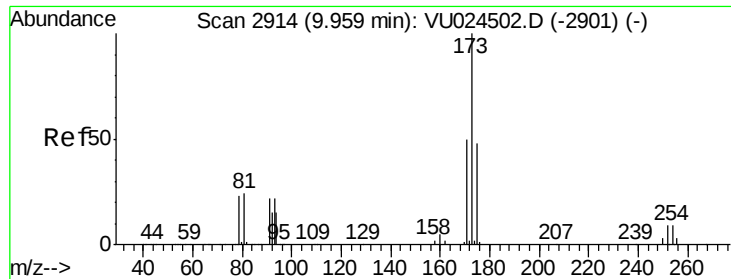
MMDadoda
6/14/2018 9:44:27 AM



#70
Styrene
Concen: 19.323 ug/l
RT: 9.80 min Scan# 2863
Delta R.T. -0.00 min
Lab File: VU024501.D
Acq: 13 Jun 2018 12:19

Tgt Ion:104 Resp: 159899
Ion Ratio Lower Upper
104 100
78 53.2 40.6 60.8
103 55.6 44.7 67.1





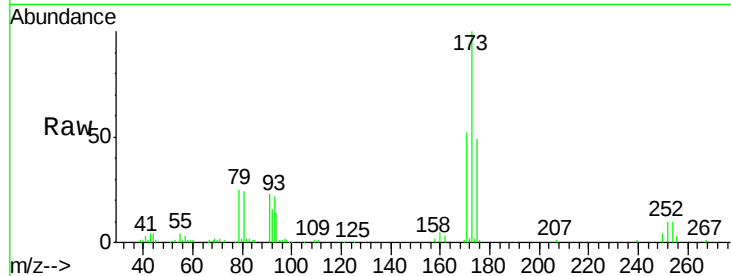
#71
Bromoform
Concen: 20.415 ug/l
RT: 9.96 min Scan# 2915
Delta R.T. 0.00 min
Lab File: VU024501.D
Acq: 13 Jun 2018 12:19

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.6	74.0
254	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
6/14/2018 9:44:27 AM

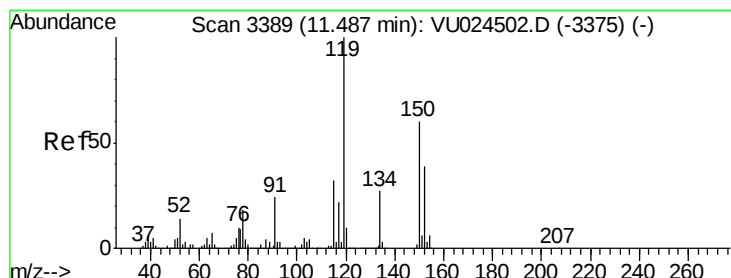
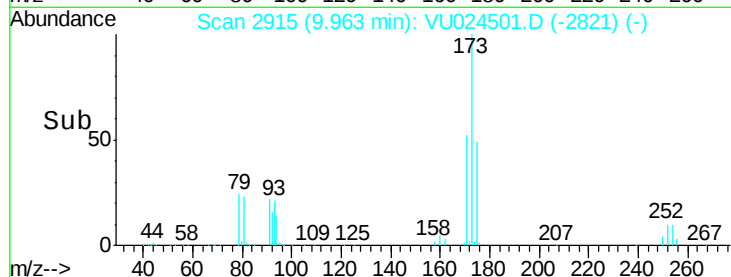
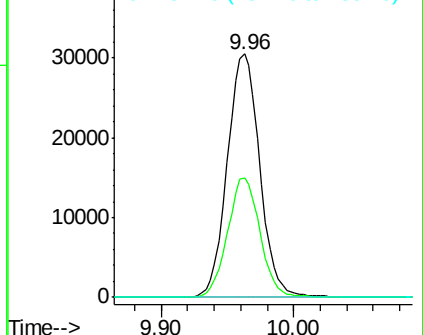


Abundance

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: VU024501.D
Acq: 13 Jun 2018 12:19

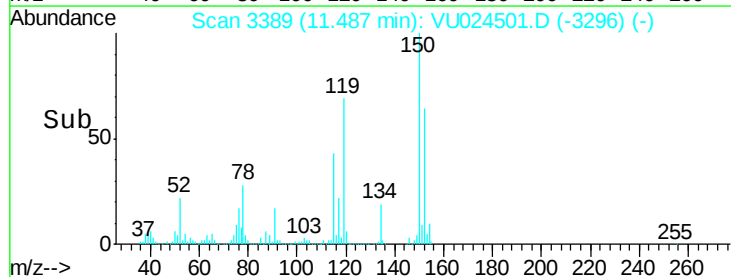
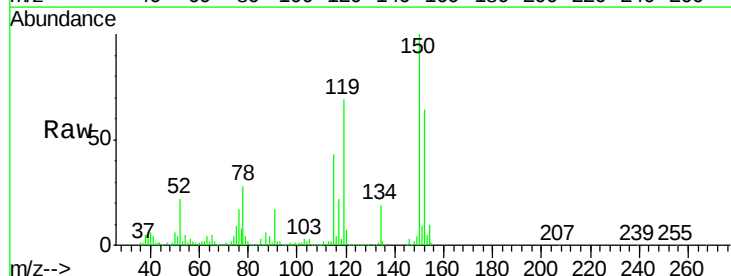
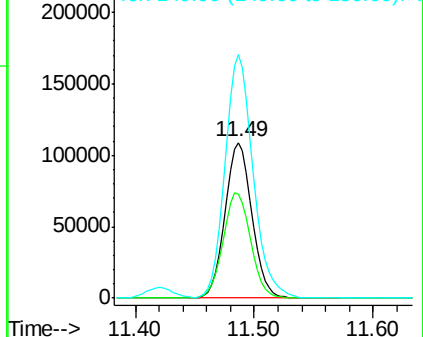
Tgt Ion	Ratio	Lower	Upper
152	100		
115	69.9	43.0	129.0
150	163.9	0.0	354.0

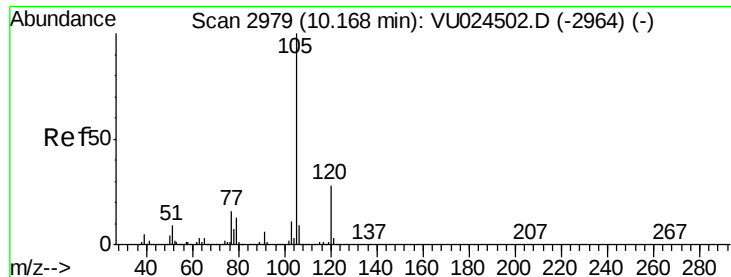
Abundance

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: 22.705 ug/l

RT: 10.17 min Scan# 2979

Delta R.T. -0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tgt Ion: 105 Resp: 264998

Ion Ratio Lower Upper

105 100

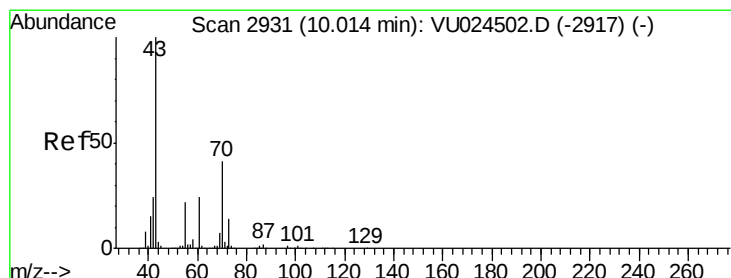
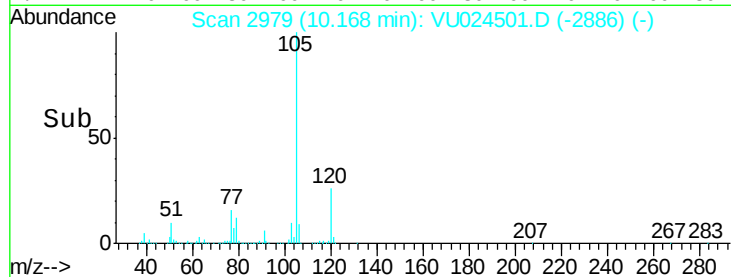
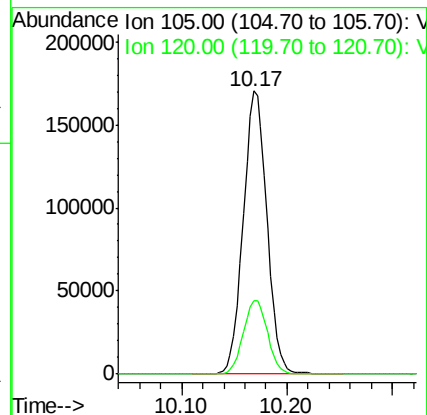
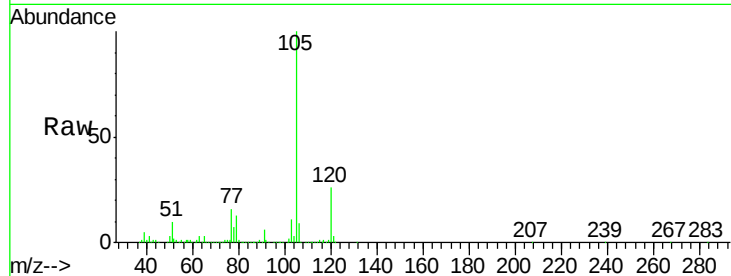
120 26.8 13.2 39.6

Manual Integrations

APPROVED

MMDadoda

6/14/2018 9:44:27 AM



#74

N-ethyl acetate

Concen: 23.207 ug/l

RT: 10.01 min Scan# 2931

Delta R.T. -0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

Tgt Ion: 43 Resp: 122600

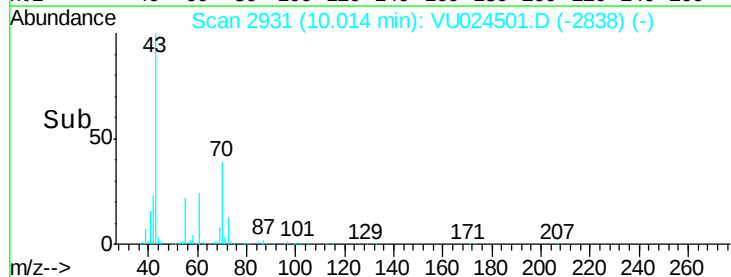
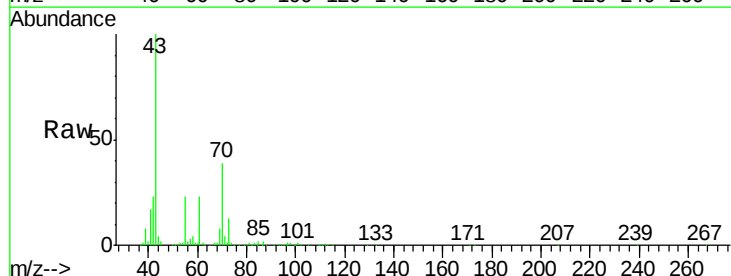
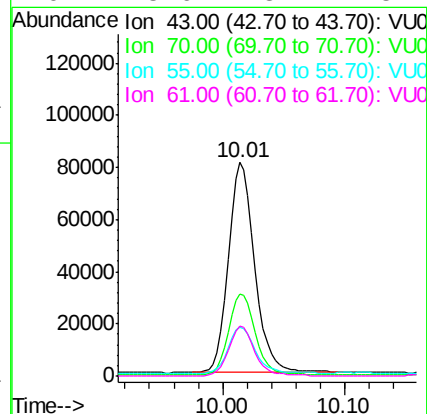
Ion Ratio Lower Upper

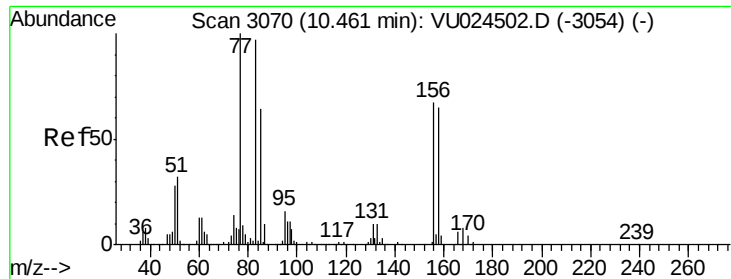
43 100

70 39.7 32.2 48.4

55 22.4 20.5 30.7

61 23.6 18.7 28.1





#75

1,1,2,2-Tetrachloroethane

Concen: 17.119 ug/l

RT: 10.46 min Scan# 3070

Delta R.T. -0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tgt Ion: 83 Resp: 86657
Ion Ratio Lower Upper

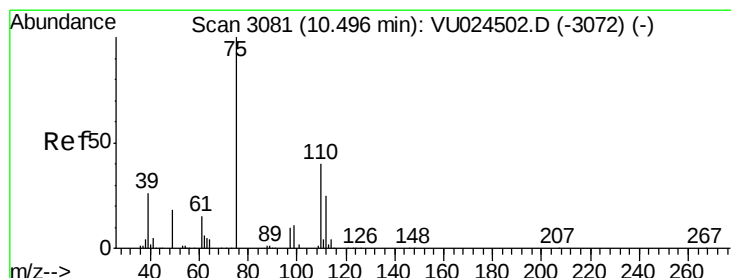
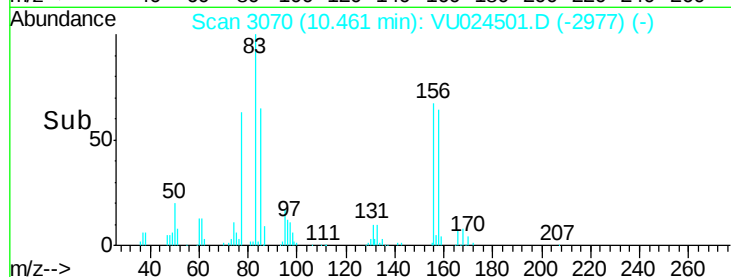
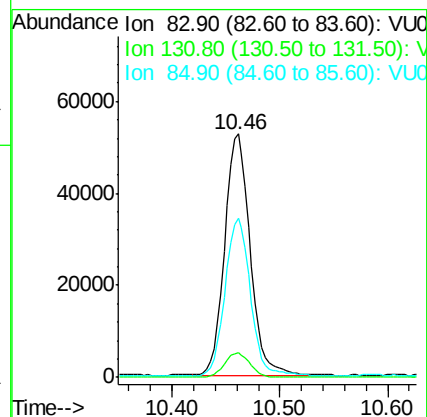
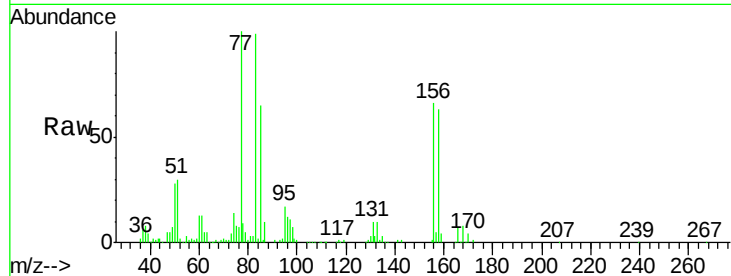
83 100

131 10.1 4.7 14.1

85 65.2 32.5 97.5

Manual Integrations
APPROVED

MMDadoda
6/14/2018 9:44:27 AM



#76

1,2,3-Trichloropropane

Concen: 21.447 ug/l m

RT: 10.50 min Scan# 3081

Delta R.T. -0.00 min

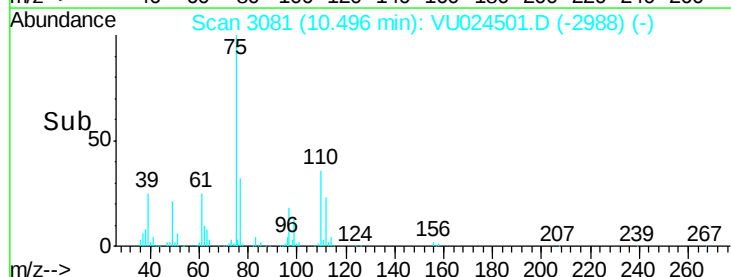
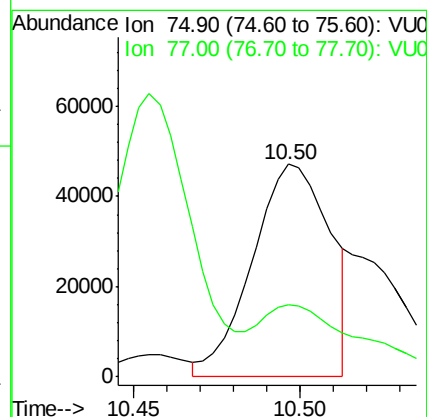
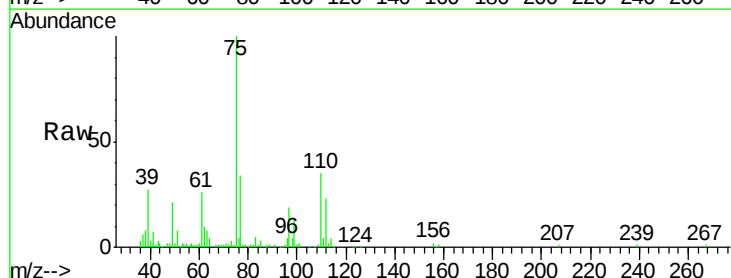
Lab File: VU024501.D

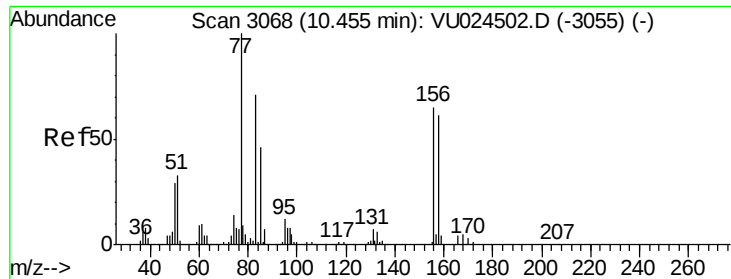
Acq: 13 Jun 2018 12:19

Tgt Ion: 75 Resp: 76154
Ion Ratio Lower Upper

75 100

77 44.4 20.9 62.7





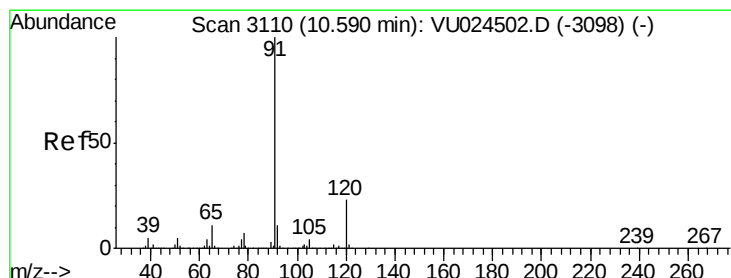
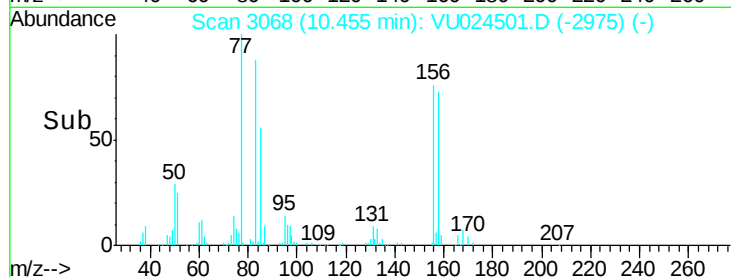
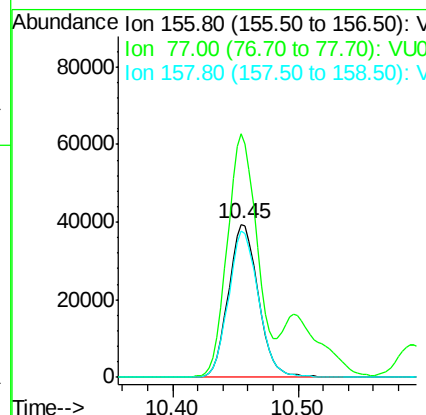
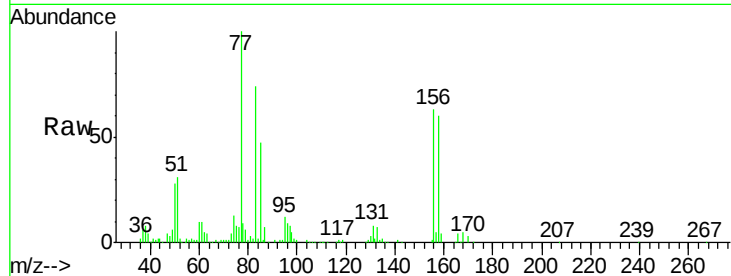
#77
Bromobenzene
Concen: 20.132 ug/l
RT: 10.45 min Scan# 3068
Delta R.T. -0.00 min
Lab File: VU024501.D
Acq: 13 Jun 2018 12:19

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
156	100		
77	158.0	80.5	241.3
158	96.4	48.2	144.6

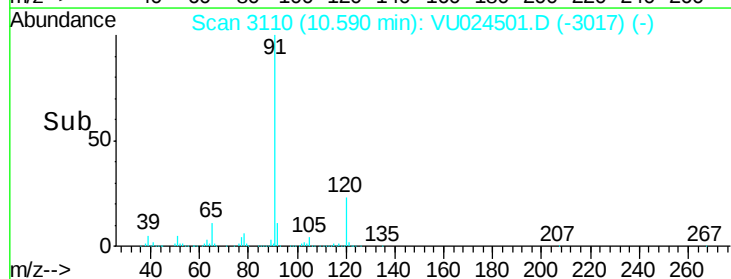
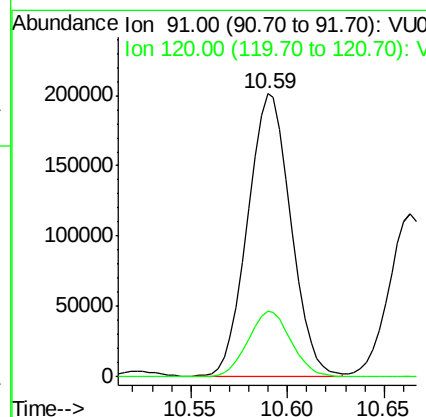
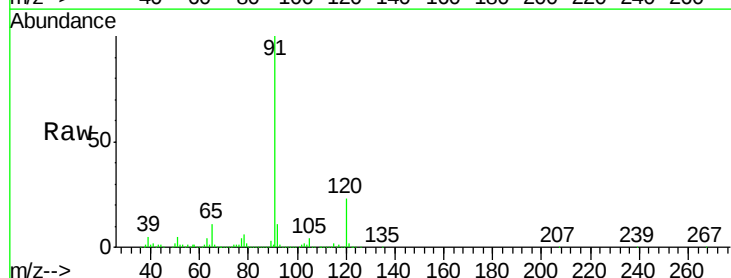
Manual Integrations
APPROVED

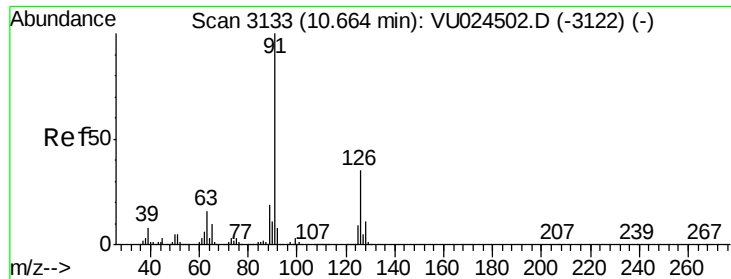
MMDadoda
6/14/2018 9:44:27 AM



#78
n-propylbenzene
Concen: 21.588 ug/l
RT: 10.59 min Scan# 3110
Delta R.T. -0.00 min
Lab File: VU024501.D
Acq: 13 Jun 2018 12:19

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.4	11.2	33.5





#79

2-Chlorotoluene

Concen: 20.556 ug/l

RT: 10.66 min Scan# 3133

Delta R.T. -0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 180544

Ion Ratio Lower Upper

91 100

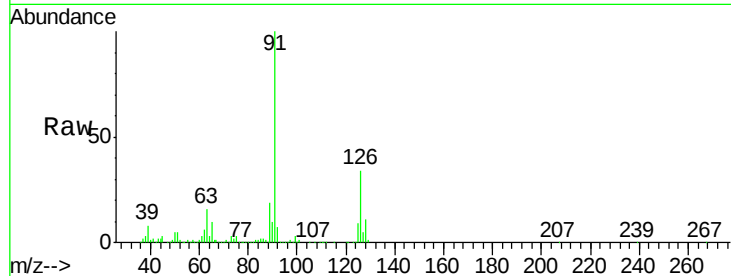
126 34.3 16.9 50.7

Manual Integrations

APPROVED

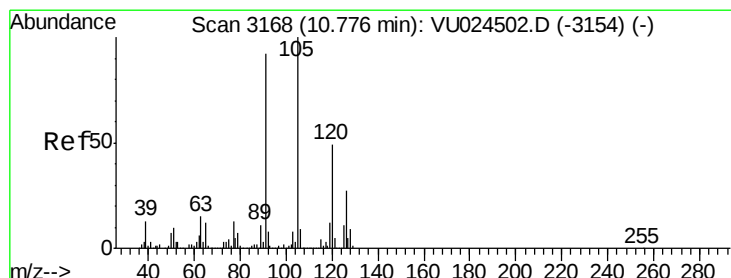
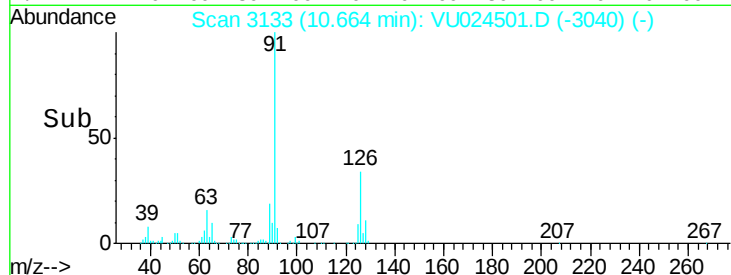
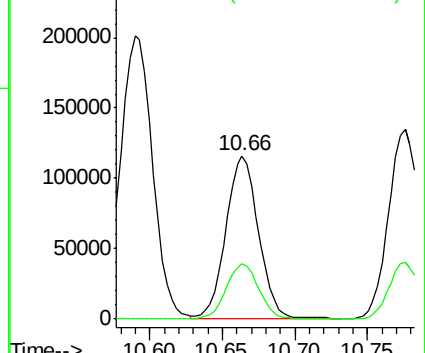
MMDadoda

6/14/2018 9:44:27 AM



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 22.488 ug/l

RT: 10.78 min Scan# 3168

Delta R.T. -0.00 min

Lab File: VU024501.D

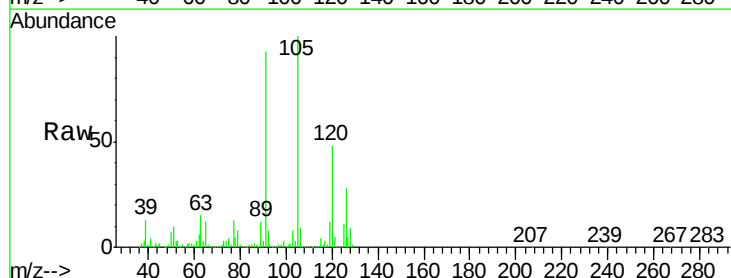
Acq: 13 Jun 2018 12:19

Tgt Ion: 105 Resp: 222581

Ion Ratio Lower Upper

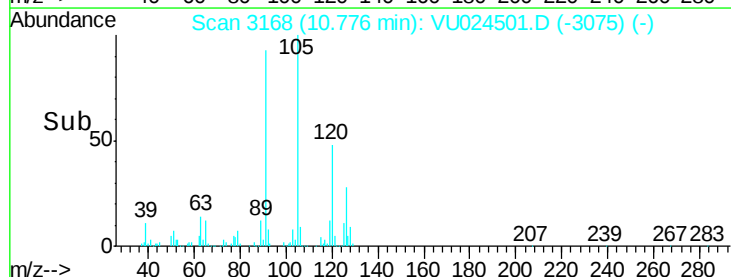
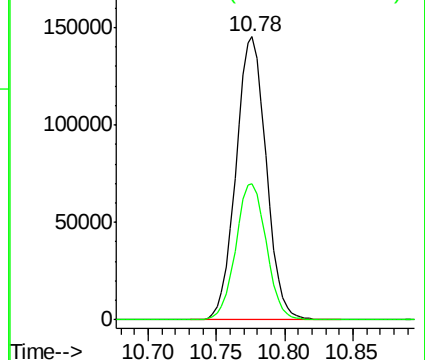
105 100

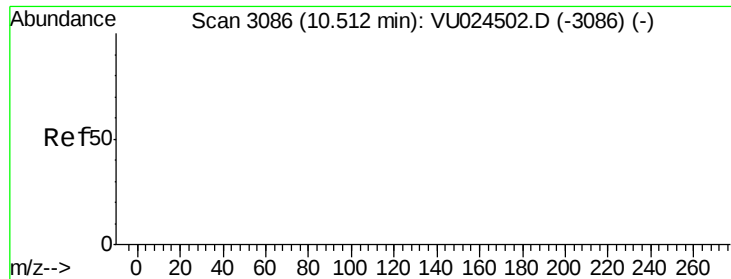
120 48.9 24.1 72.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 19.517 ug/l m

RT: 10.51 min Scan# 3086

Delta R.T. -0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

Instrument :

MSVOA_U

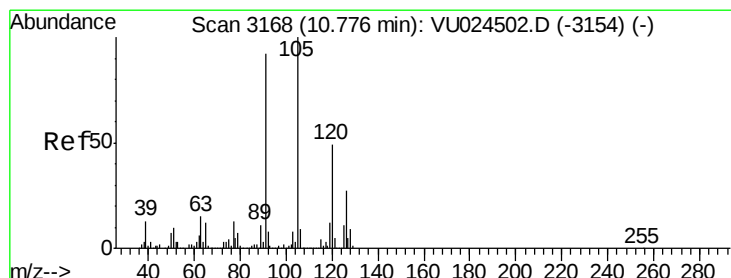
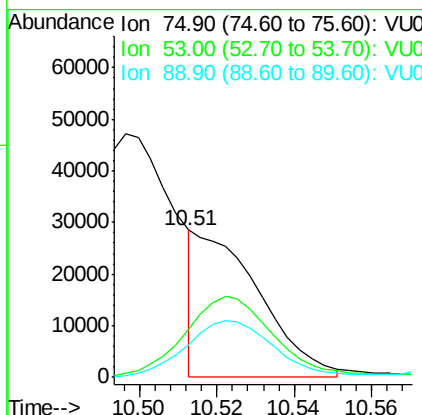
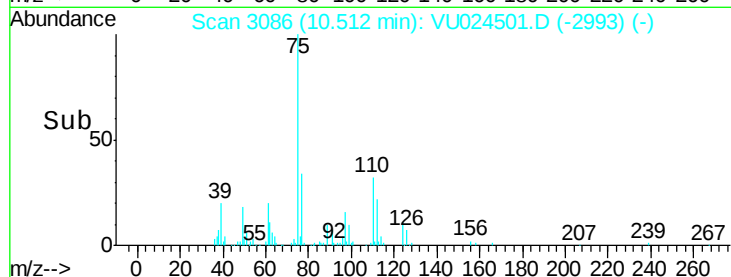
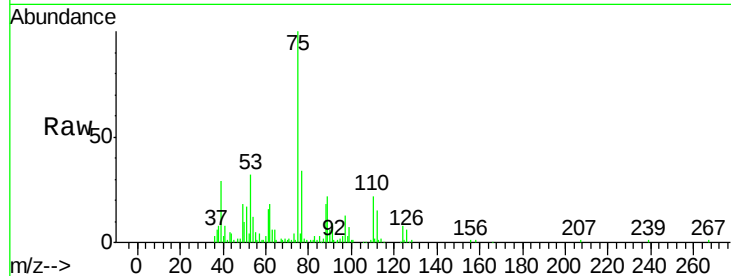
ClientSampleId :

VSTDIC020

Tgt Ion:	75	Resp:	32667
Ion Ratio	Lower	Upper	
75	100		
53	0.0	0.0	0.0
89	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
6/14/2018 9:44:27 AM



#82

4-Chlorotoluene

Concen: 20.584 ug/l

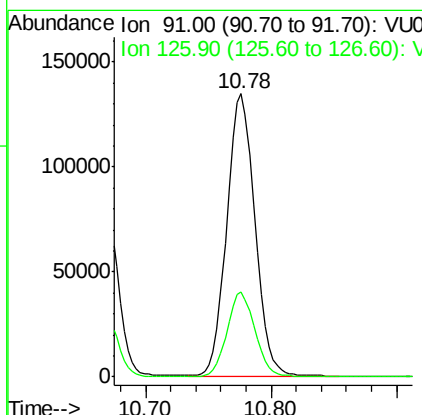
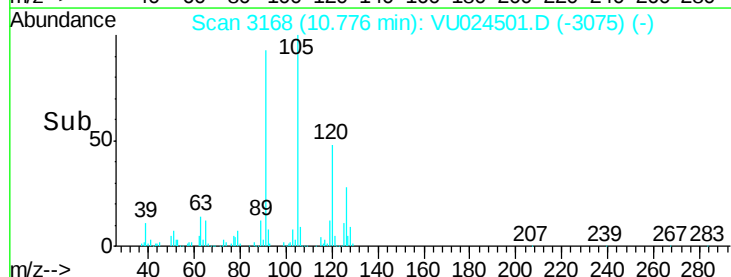
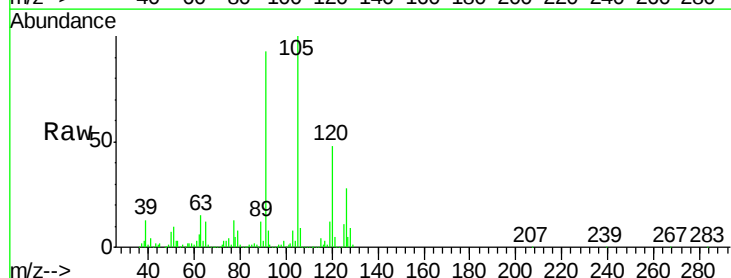
RT: 10.78 min Scan# 3168

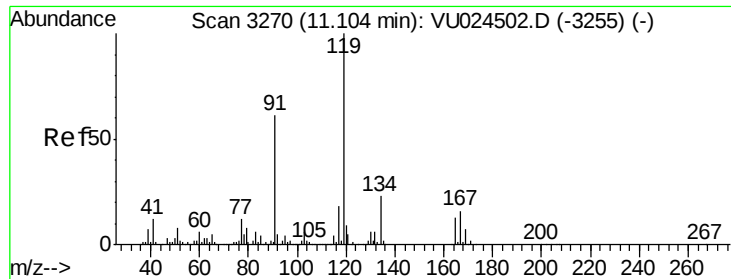
Delta R.T. -0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

Tgt Ion:	91	Resp:	209740
Ion Ratio	Lower	Upper	
91	100		
126	30.1	14.9	44.9





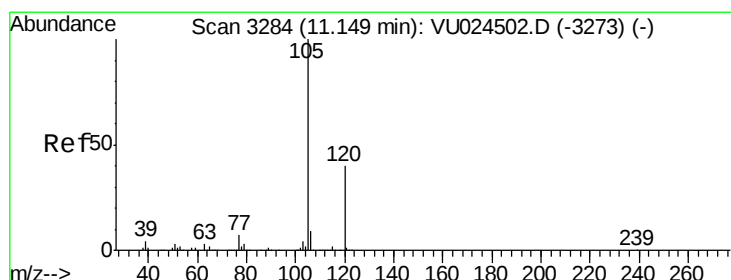
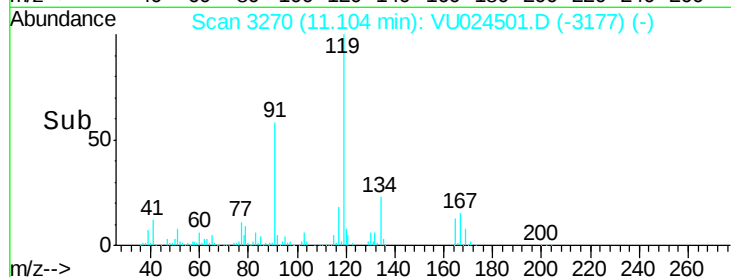
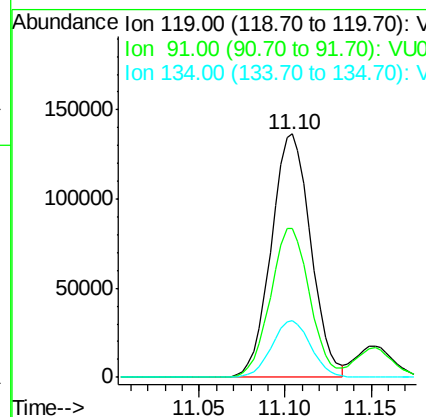
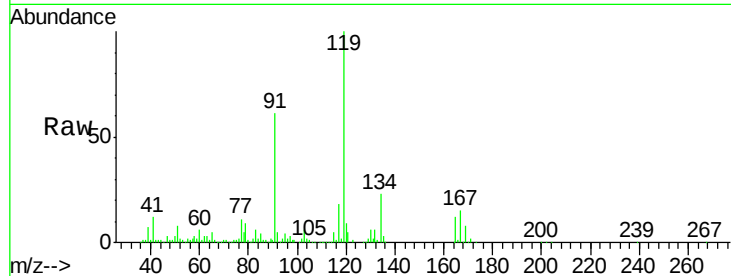
#83
 tert-Butylbenzene
 Concen: 22.561 ug/l
 RT: 11.10 min Scan# 3270
 Delta R.T. -0.00 min
 Lab File: VU024501.D
 Acq: 13 Jun 2018 12:19

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	217370		
91	60.8	29.7	89.1	
134	22.9	11.6	34.7	

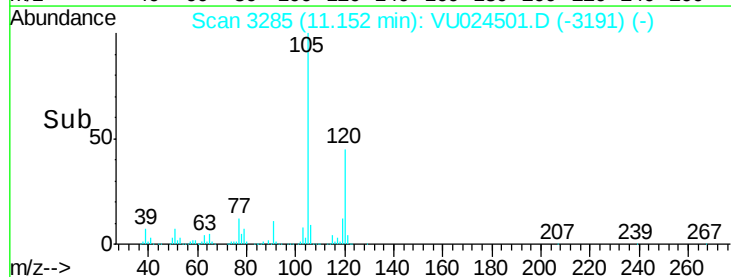
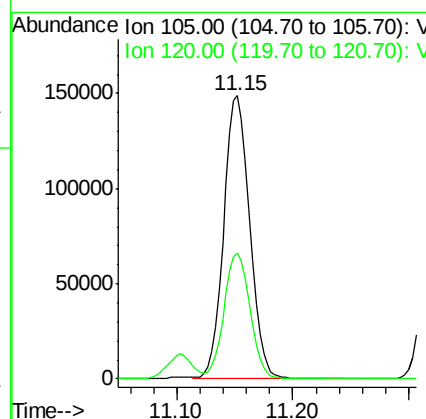
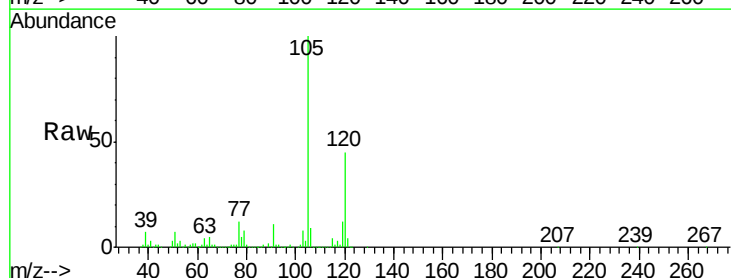
Manual Integrations
 APPROVED

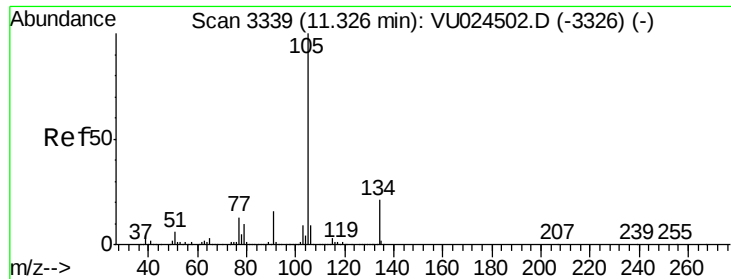
MMDadoda
 6/14/2018 9:44:27 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 23.015 ug/l
 RT: 11.15 min Scan# 3285
 Delta R.T. 0.00 min
 Lab File: VU024501.D
 Acq: 13 Jun 2018 12:19

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	230190		
120	44.9	22.6	67.8	





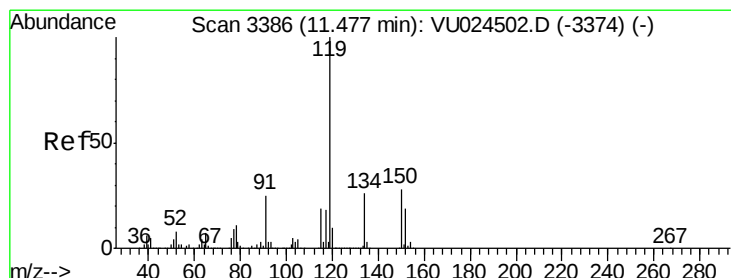
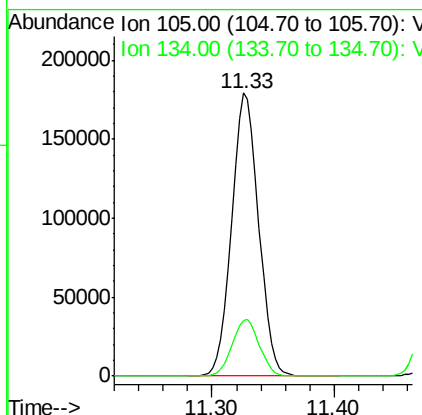
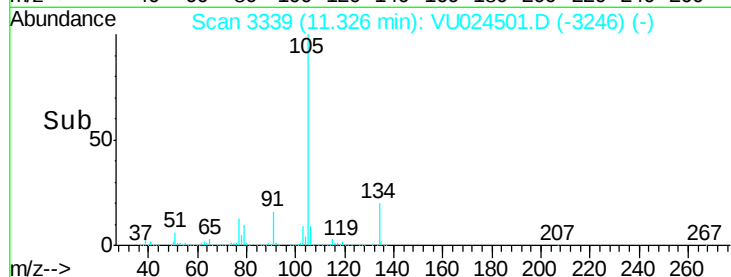
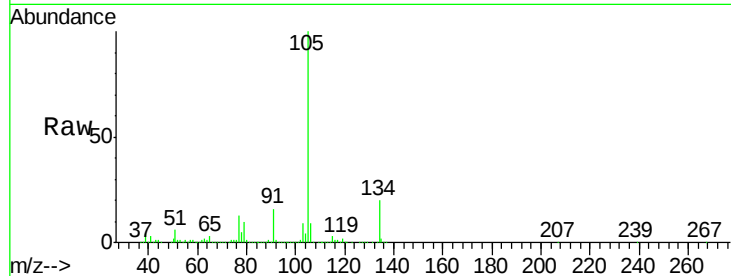
#85
 sec-Butylbenzene
 Concen: 22.681 ug/l
 RT: 11.33 min Scan# 3339
 Delta R.T. -0.00 min
 Lab File: VU024501.D
 Acq: 13 Jun 2018 12:19

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	274368		
134	20.2	9.7	29.1	

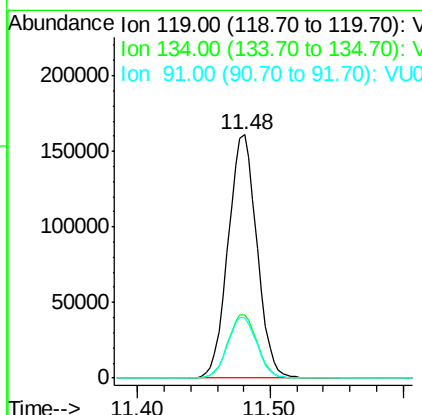
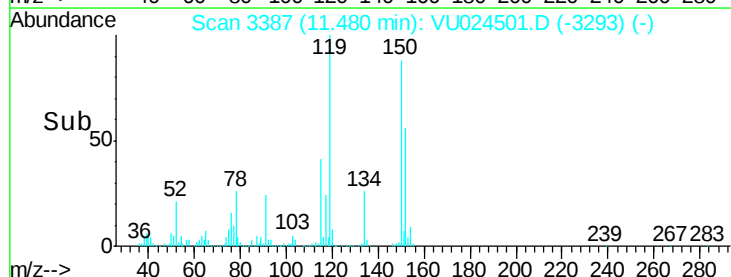
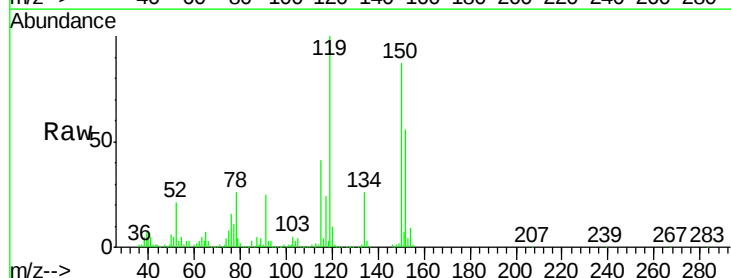
Manual Integrations
 APPROVED

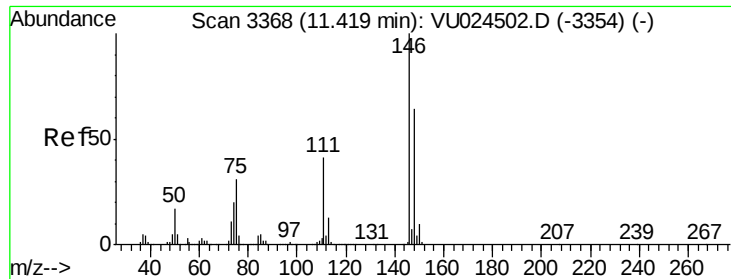
MMDadoda
 6/14/2018 9:44:27 AM



#86
 p-Isopropyltoluene
 Concen: 22.534 ug/l
 RT: 11.48 min Scan# 3387
 Delta R.T. 0.00 min
 Lab File: VU024501.D
 Acq: 13 Jun 2018 12:19

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	240901		
134	26.7	12.9	38.6	
91	25.3	12.0	36.1	





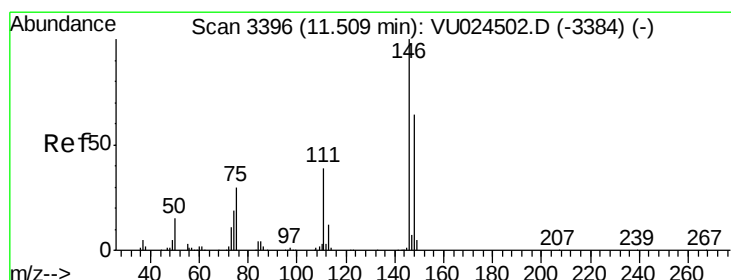
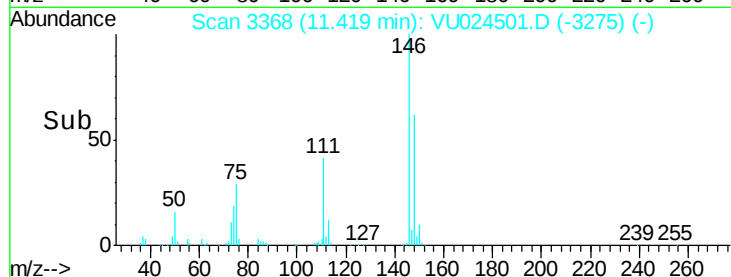
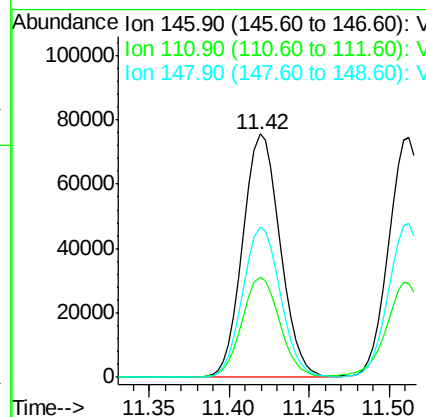
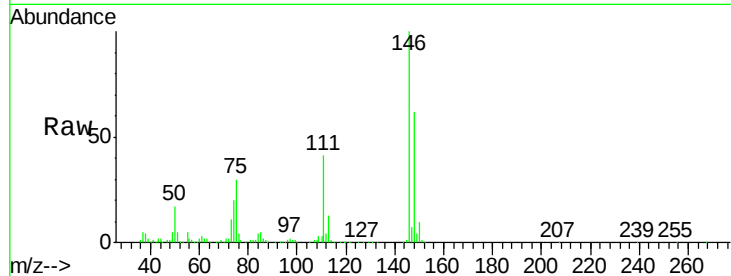
#87
 1,3-Dichlorobenzene
 Concen: 19.431 ug/l
 RT: 11.42 min Scan# 3368
 Delta R.T. -0.00 min
 Lab File: VU024501.D
 Acq: 13 Jun 2018 12:19

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	120700		
111	40.7	20.0	60.0	
148	62.2	32.1	96.5	

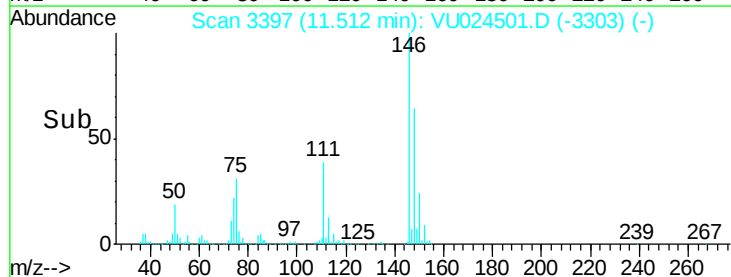
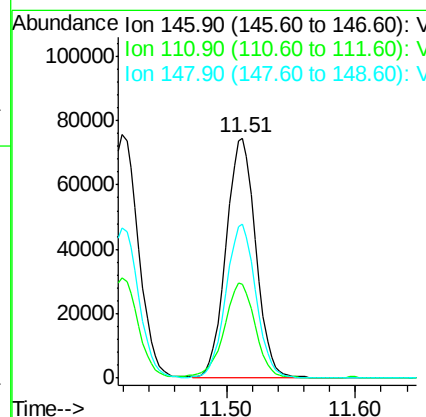
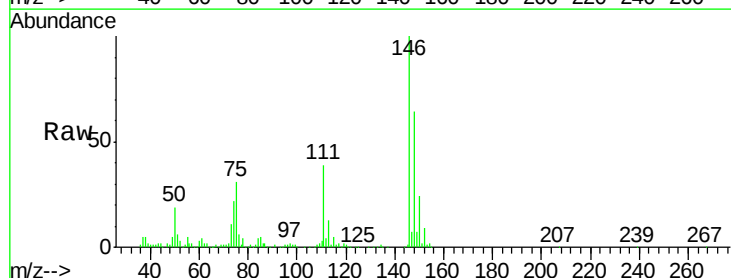
Manual Integrations
 APPROVED

MMDadoda
 6/14/2018 9:44:27 AM



#88
 1,4-Dichlorobenzene
 Concen: 18.335 ug/l
 RT: 11.51 min Scan# 3397
 Delta R.T. 0.00 min
 Lab File: VU024501.D
 Acq: 13 Jun 2018 12:19

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	119217		
111	40.7	19.5	58.5	
148	64.5	32.4	97.0	





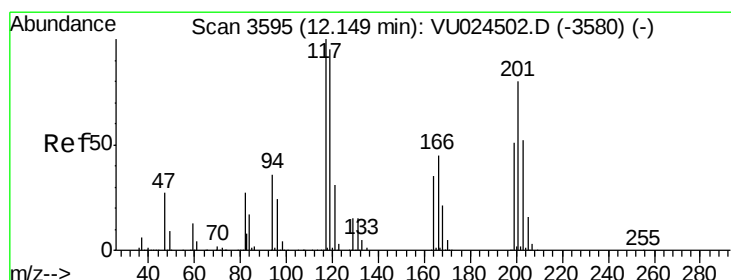
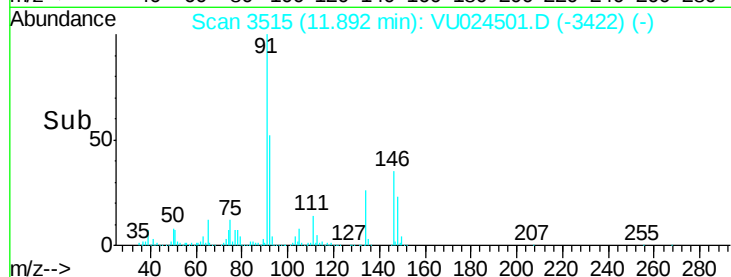
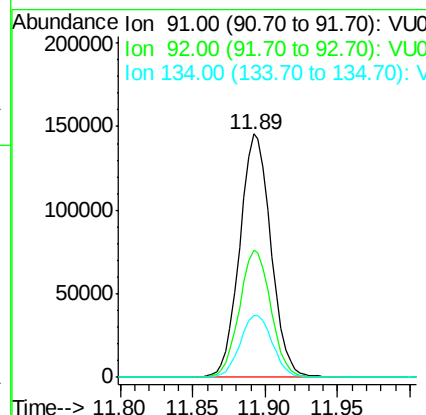
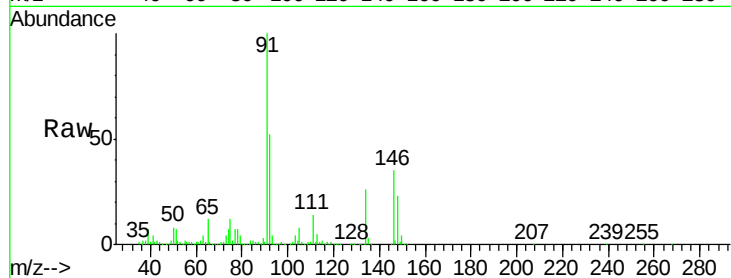
#89
n-Butylbenzene
Concen: 20.643 ug/l
RT: 11.89 min Scan# 3515
Delta R.T. -0.00 min
Lab File: VU024501.D
Acq: 13 Jun 2018 12:19

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.8	25.6	76.8
134	26.5	12.3	36.8

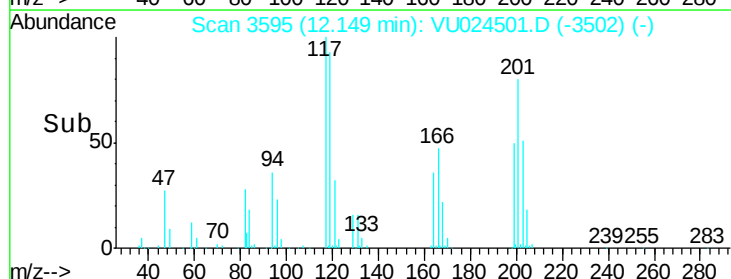
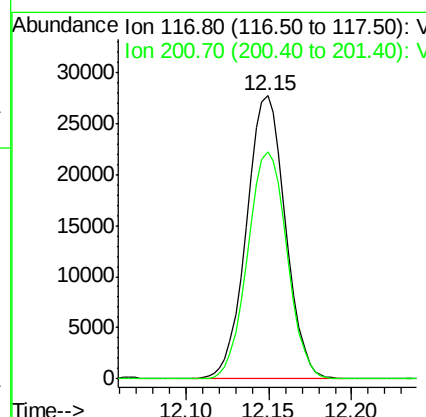
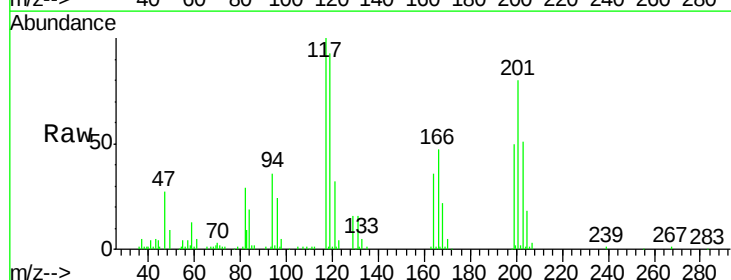
Manual Integrations
APPROVED

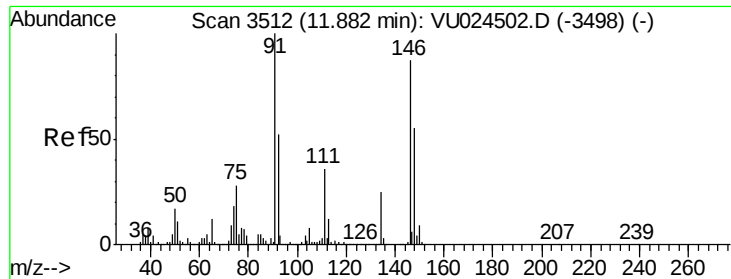
MMDadoda
6/14/2018 9:44:27 AM



#90
Hexachloroethane
Concen: 23.636 ug/l
RT: 12.15 min Scan# 3595
Delta R.T. -0.00 min
Lab File: VU024501.D
Acq: 13 Jun 2018 12:19

Tgt Ion	Ratio	Lower	Upper
117	100		
201	81.1	41.1	123.3





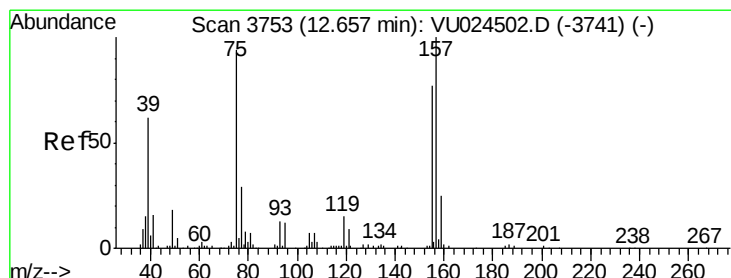
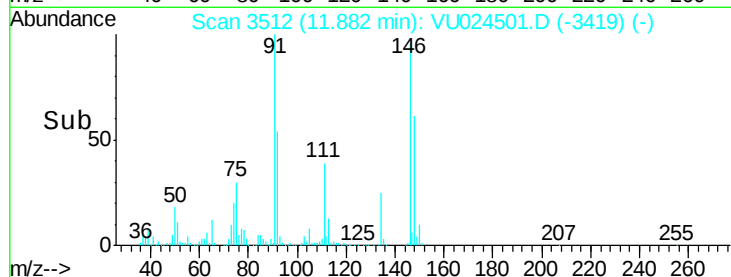
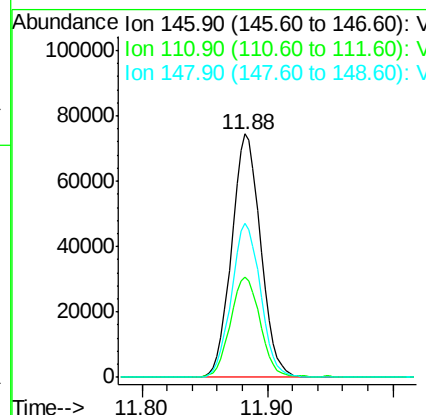
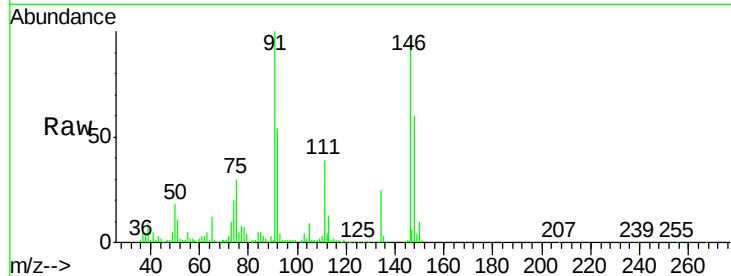
#91
 1,2-Dichlorobenzene
 Concen: 19.327 ug/l
 RT: 11.88 min Scan# 3512
 Delta R.T. -0.00 min
 Lab File: VU024501.D
 Acq: 13 Jun 2018 12:19

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	120049		
111	41.4	20.5	61.6	
148	63.5	31.9	95.7	

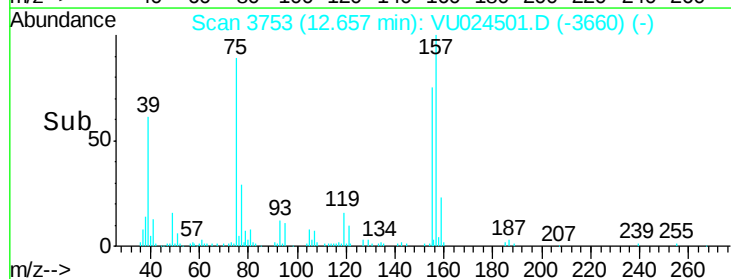
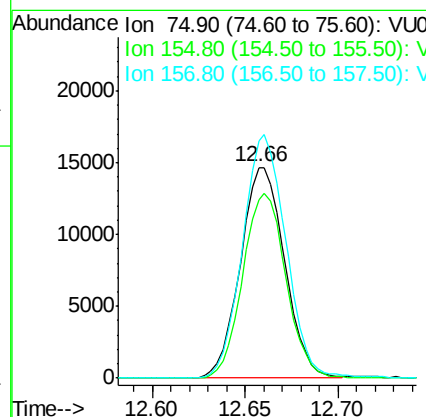
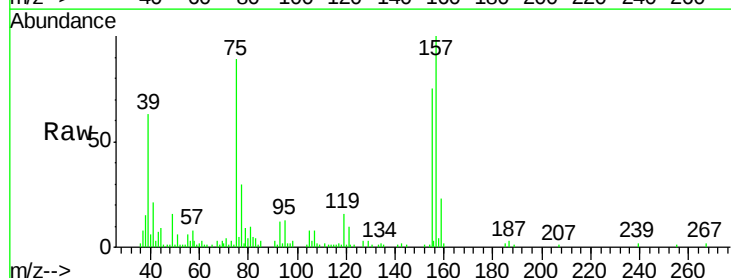
Manual Integrations
 APPROVED

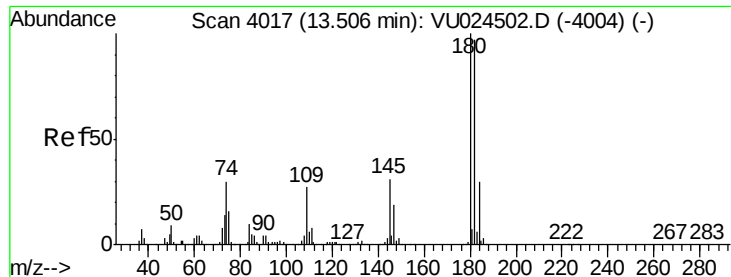
MMDadoda
 6/14/2018 9:44:27 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 23.664 ug/l
 RT: 12.66 min Scan# 3753
 Delta R.T. -0.00 min
 Lab File: VU024501.D
 Acq: 13 Jun 2018 12:19

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	24452		
155	85.0	40.4	121.2	
157	113.1	52.3	156.8	





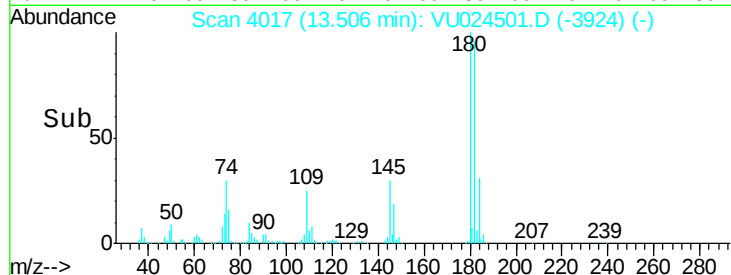
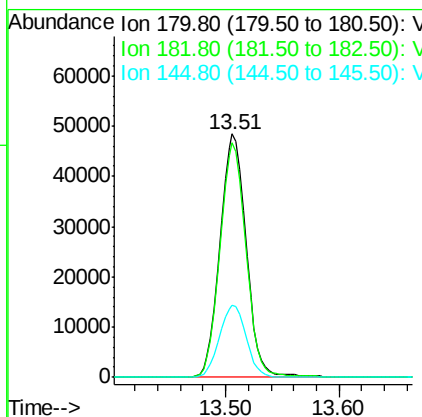
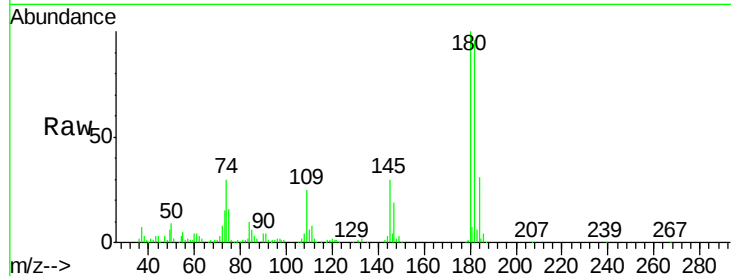
#93
 1,2,4-Trichlorobenzene
 Concen: 21.336 ug/l
 RT: 13.51 min Scan# 4017
 Delta R.T. -0.00 min
 Lab File: VU024501.D
 Acq: 13 Jun 2018 12:19

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	78280		
182	96.0	48.0	144.2	
145	30.1	14.7	44.1	

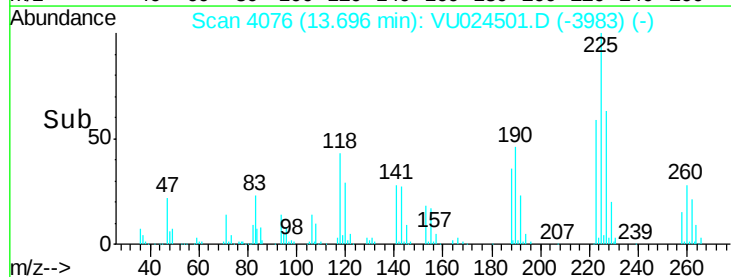
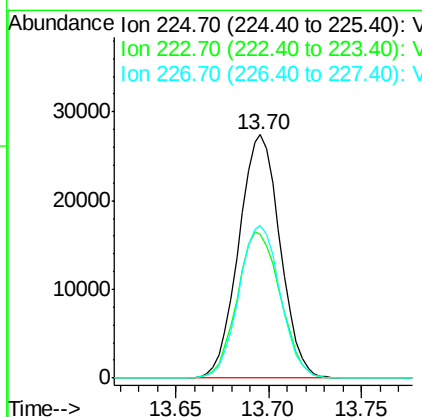
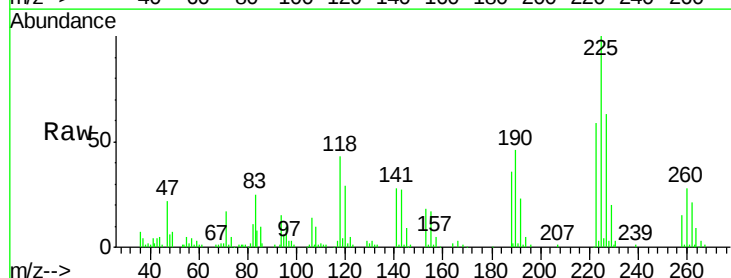
Manual Integrations
 APPROVED

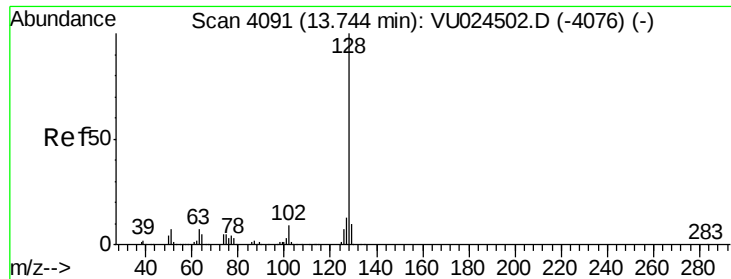
MMDadoda
 6/14/2018 9:44:27 AM



#94
 Hexachlorobutadiene
 Concen: 19.439 ug/l
 RT: 13.70 min Scan# 4076
 Delta R.T. -0.00 min
 Lab File: VU024501.D
 Acq: 13 Jun 2018 12:19

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	42364		
223	62.4	31.3	93.8	
227	62.9	31.8	95.4	





#95

Naphthalene

Concen: 24.228 ug/l

RT: 13.75 min Scan# 4092

Delta R.T. 0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

Instrument :

MSVOA_U

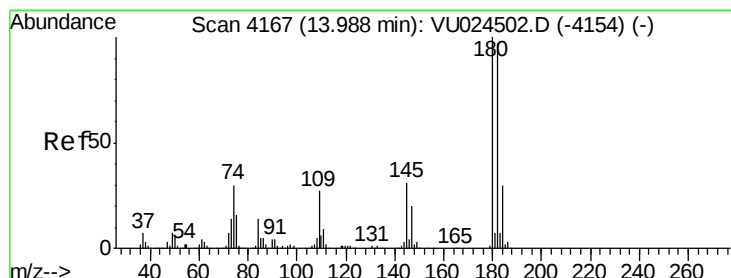
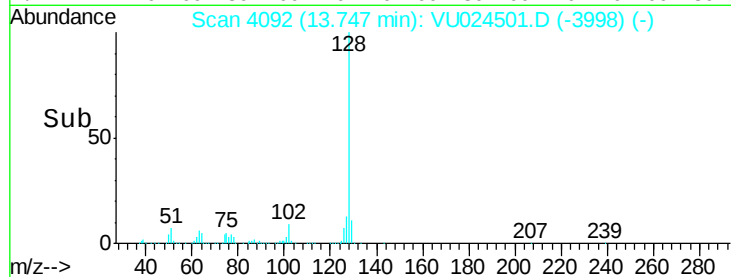
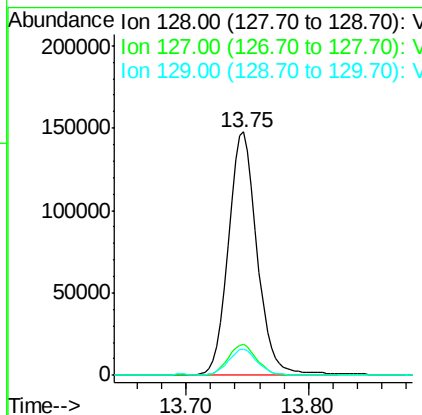
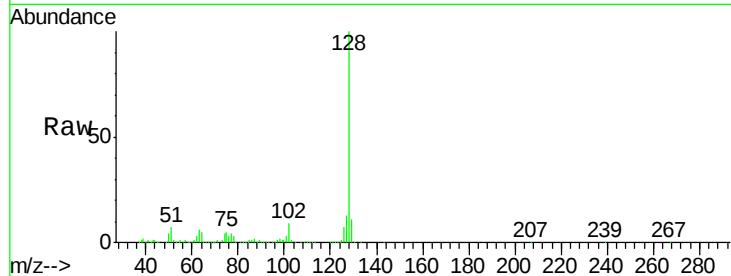
ClientSampleId :

VSTDIC020

Tgt Ion:	128	Resp:	243070
Ion Ratio		Lower	Upper
128	100		
127	12.7	10.6	16.0
129	10.8	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
6/14/2018 9:44:27 AM



#96

1,2,3-Trichlorobenzene

Concen: 21.527 ug/l

RT: 13.99 min Scan# 4168

Delta R.T. 0.00 min

Lab File: VU024501.D

Acq: 13 Jun 2018 12:19

Tgt Ion:	180	Resp:	79810
Ion Ratio		Lower	Upper
180	100		
182	97.2	47.9	143.7
145	32.1	15.4	46.1

