

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011519\
 Data File : VU029177.D
 Acq On : 15 Jan 2019 11:53
 Operator : JC/SP
 Sample : VU0115WBSD01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0115WBSD01

Manual Integrations
 APPROVED

MMDadoda
 1/16/2019 9:42:04 AM

Quant Time: Jan 16 05:48:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 12 01:33:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	116277	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	191545	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	180049	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	85532	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	75923	52.82	ug/l	0.00
Spiked Amount 50.000			Recovery =	105.64%		
35) Dibromofluoromethane	4.88	113	64483	51.93	ug/l	0.00
Spiked Amount 50.000			Recovery =	103.86%		
50) Toluene-d8	7.56	98	247431	50.48	ug/l	0.00
Spiked Amount 50.000			Recovery =	100.96%		
62) 4-Bromofluorobenzene	10.30	95	86696	49.21	ug/l	0.00
Spiked Amount 50.000			Recovery =	98.42%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.21	85	22165	19.222	ug/l	100
3) Chloromethane	1.33	50	33995	18.024	ug/l	97
4) Vinyl Chloride	1.40	62	34489	20.296	ug/l	99
5) Bromomethane	1.62	94	19812	20.910	ug/l	99
6) Chloroethane	1.69	64	20396	20.150	ug/l	98
7) Trichlorofluoromethane	1.88	101	37820	20.425	ug/l	99
8) Diethyl Ether	2.10	74	18268	20.535	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	2.28	101	24741	19.969	ug/l	99
10) Methyl Iodide	2.41	142	25605	21.979	ug/l	100
11) Tert butyl alcohol	2.83	59	41899	114.676	ug/l	98
12) 1,1-Dichloroethene	2.28	96	24303	20.152	ug/l	100
13) Acrolein	2.19	56	25372	92.479	ug/l	99
14) Allyl chloride	2.59	41	42103	19.028	ug/l	92
15) Acrylonitrile	2.93	53	99790	111.326	ug/l	99
16) Acetone	2.32	43	88288	97.501	ug/l	99
17) Carbon Disulfide	2.48	76	74424	18.283	ug/l	100
18) Methyl Acetate	2.61	43	49491	23.506	ug/l	99
19) Methyl tert-butyl Ether	3.00	73	89627	21.139	ug/l	99
20) Methylene Chloride	2.70	84	30330	19.728	ug/l	97
21) trans-1,2-Dichloroethene	2.98	96	27858	19.883	ug/l	99
22) Diisopropyl ether	3.57	45	95346	21.802	ug/l	96
23) Vinyl Acetate	3.52	43	381965	106.840	ug/l	100
24) 1,1-Dichloroethane	3.44	63	53839	21.326	ug/l	99
25) 2-Butanone	4.26	43	136170	111.338	ug/l	99
26) 2,2-Dichloropropane	4.22	77	43240	21.197	ug/l	100
27) cis-1,2-Dichloroethene	4.22	96	32307	21.082	ug/l	99
28) Bromochloromethane	4.55	49	25040	23.164	ug/l	99
29) Tetrahydrofuran	4.64	42	86406	116.484	ug/l	97
30) Chloroform	4.67	83	51971	21.614	ug/l	100
31) Cyclohexane	4.99	56	50214	20.406	ug/l	98
32) 1,1,1-Trichloroethane	4.91	97	42627	21.455	ug/l	99
36) 1,1-Dichloropropene	5.13	75	38454	20.085	ug/l	99
37) Ethyl Acetate	4.38	43	46823	22.280	ug/l	99
38) Carbon Tetrachloride	5.13	117	32784	20.530	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011519\
 Data File : VU029177.D
 Acq On : 15 Jan 2019 11:53
 Operator : JC/SP
 Sample : VU0115WBSD01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 Client Sample ID :
 VU0115WBSD01

Manual Integrations
 APPROVED

MMDadoda
 1/16/2019 9:42:04 AM

Quant Time: Jan 16 05:48:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 12 01:33:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.41	83	45515	19.337	ug/l	98
40) Benzene	5.39	78	124610	20.865	ug/l	100
41) Methacrylonitrile	4.54	41	25911	23.033	ug/l	97
42) 1,2-Dichloroethane	5.40	62	39866	22.215	ug/l	100
43) Isopropyl Acetate	5.55	43	72220	22.402	ug/l	99
44) Trichloroethene	6.18	130	29528	19.955	ug/l	99
45) 1,2-Dichloropropane	6.43	63	33766	21.410	ug/l	99
46) Dibromomethane	6.56	93	21271	21.098	ug/l	99
47) Bromodichloromethane	6.76	83	40472	21.803	ug/l	98
48) Methyl methacrylate	6.62	41	34910	22.239	ug/l	98
49) 1,4-Dioxane	6.61	88	17844	479.672	ug/l	99
51) 4-Methyl-2-Pentanone	7.46	43	245507	111.901	ug/l	99
52) Toluene	7.64	92	75717	20.826	ug/l	99
53) t-1,3-Dichloropropene	7.88	75	46231	20.733	ug/l	99
54) cis-1,3-Dichloropropene	7.27	75	50070	20.781	ug/l	98
55) 1,1,2-Trichloroethane	8.06	97	31728	21.784	ug/l	98
56) Ethyl methacrylate	8.02	69	46393	20.675	ug/l	97
57) 1,3-Dichloropropane	8.24	76	53562	21.492	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.13	63	91332	92.552	ug/l	99
59) 2-Hexanone	8.36	43	189991	110.320	ug/l	98
60) Dibromochloromethane	8.48	129	29740	20.610	ug/l	96
61) 1,2-Dibromoethane	8.58	107	32926	20.844	ug/l	97
64) Tetrachloroethene	8.22	164	27006	20.822	ug/l	94
65) Chlorobenzene	9.12	112	82087	20.339	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.21	131	27905	21.306	ug/l	98
67) Ethyl Benzene	9.25	91	138417	20.542	ug/l	99
68) m/p-Xylenes	9.37	106	105515	40.302	ug/l	98
69) o-Xylene	9.78	106	52275	20.723	ug/l	100
70) Styrene	9.79	104	83339	20.152	ug/l	99
71) Bromoform	9.95	173	23702	20.324	ug/l #	97
73) Isopropylbenzene	10.16	105	136246	21.521	ug/l	100
74) N-amyl acetate	10.01	43	58212	21.338	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.45	83	54643	21.536	ug/l	100
76) 1,2,3-Trichloropropane	10.49	75	46773m	22.319	ug/l	
77) Bromobenzene	10.45	156	34470	20.893	ug/l	98
78) n-propylbenzene	10.58	91	161485	21.644	ug/l	99
79) 2-Chlorotoluene	10.66	91	96461	21.313	ug/l	100
80) 1,3,5-Trimethylbenzene	10.77	105	113398	21.449	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.51	75	14768m	18.174	ug/l	
82) 4-Chlorotoluene	10.77	91	108894	20.983	ug/l	99
83) tert-Butylbenzene	11.10	119	109012	20.920	ug/l	99
84) 1,2,4-Trimethylbenzene	11.14	105	112923	21.394	ug/l	100
85) sec-Butylbenzene	11.32	105	138319	21.949	ug/l	100
86) p-Isopropyltoluene	11.47	119	116419	21.679	ug/l	99
87) 1,3-Dichlorobenzene	11.41	146	62302	20.588	ug/l	99
88) 1,4-Dichlorobenzene	11.50	146	63442	20.310	ug/l	99
89) n-Butylbenzene	11.89	91	104621	21.828	ug/l	98
90) Hexachloroethane	12.14	117	18409	20.378	ug/l	100
91) 1,2-Dichlorobenzene	11.88	146	62560	20.525	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.65	75	11349	23.255	ug/l	96

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU011519\
Data File : VU029177.D
Acq On : 15 Jan 2019 11:53
Operator : JC/SP
Sample : VU0115WBSD01
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU0115WBSD01

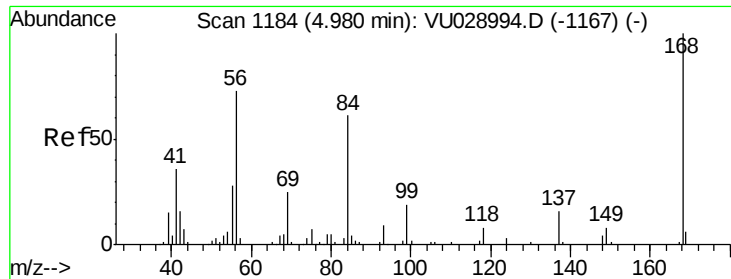
Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:42:04 AM

Quant Time: Jan 16 05:48:40 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
Quant Title : SW846 8260
QLast Update : Sat Jan 12 01:33:59 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	39611	20.358	ug/l	99
94) Hexachlorobutadiene	13.69	225	19095	21.456	ug/l	97
95) Naphthalene	13.74	128	132770	20.059	ug/l	99
96) 1,2,3-Trichlorobenzene	13.98	180	40918	20.887	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. 0.00 min

Lab File: VU029177.D

Acq: 15 Jan 2019 11:53

Instrument :

MSVOA_U

ClientSampleId :

VU0115WBSD01

Tot Ion:168 Resp: 116277

Ion Ratio Lower Upper

168 100

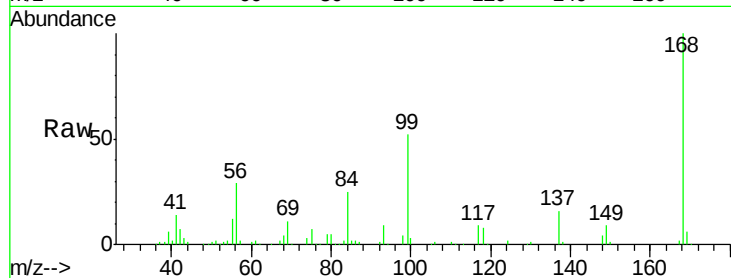
99 51.6 42.0 63.0

Manual Integrations

APPROVED

MMDadoda

1/16/2019 9:42:04 AM



Abundance Ion 167.90 (167.60 to 168.60): VU028994.D (-1167) (-)

Ion 98.90 (98.60 to 99.60): VU028994.D (-1167) (-)

4.98

50000

40000

30000

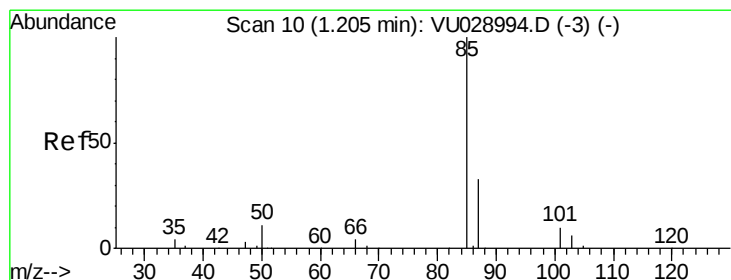
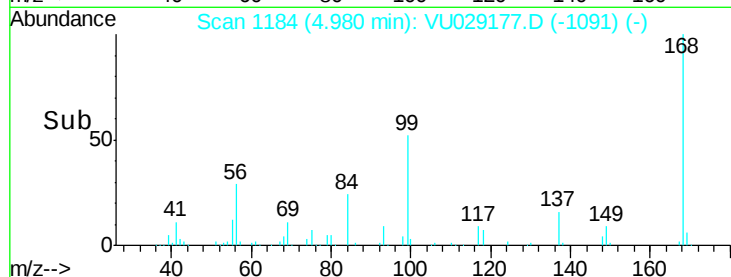
20000

10000

0

4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 19.222 ug/l

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

Lab File: VU029177.D

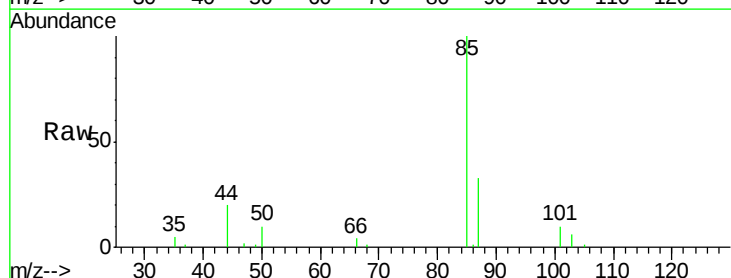
Acq: 15 Jan 2019 11:53

Tgt Ion: 85 Resp: 22165

Ion Ratio Lower Upper

85 100

87 32.6 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VU028994.D (-3) (-)

Ion 86.90 (86.60 to 87.60): VU028994.D (-3) (-)

1.21

25000

20000

15000

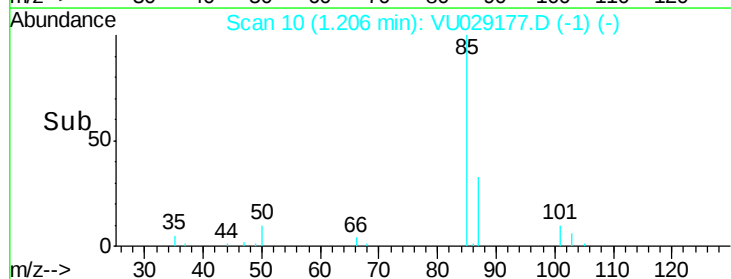
10000

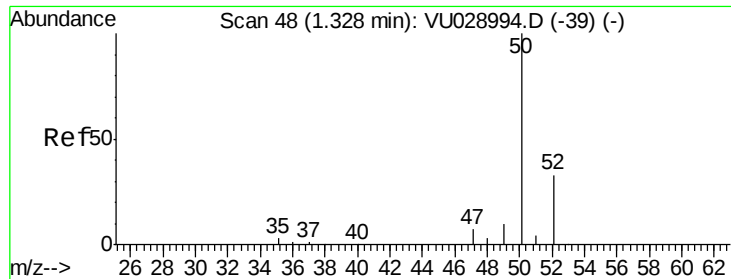
5000

0

1.20 1.25

Time-->





#3

Chloromethane

Concen: 18.024 ug/l

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU029177.D

Acq: 15 Jan 2019 11:53

Instrument :

MSVOA_U

ClientSampleId :

VU0115WBSD01

Tot Ion: 50 Resp: 33995

Ion Ratio Lower Upper

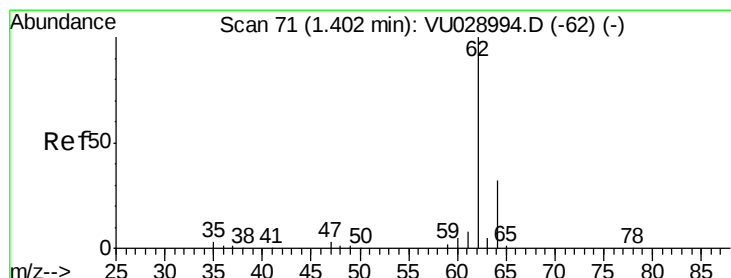
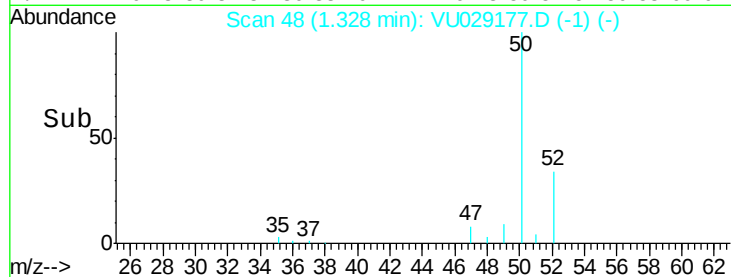
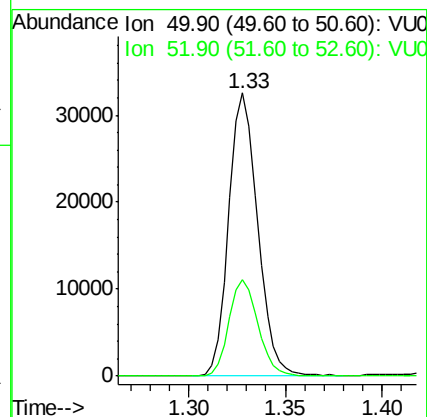
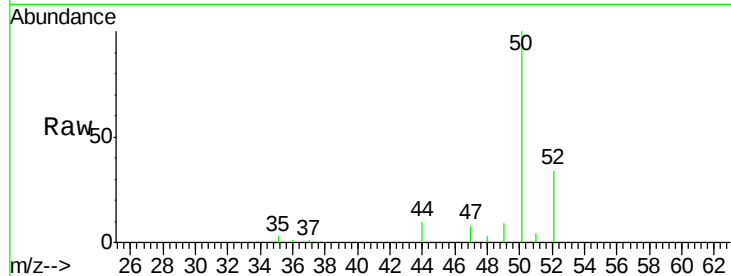
50 100

52 34.0 26.1 39.1

Manual Integrations
APPROVED

MMDadoda

1/16/2019 9:42:04 AM



#4

Vinyl Chloride

Concen: 20.296 ug/l

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU029177.D

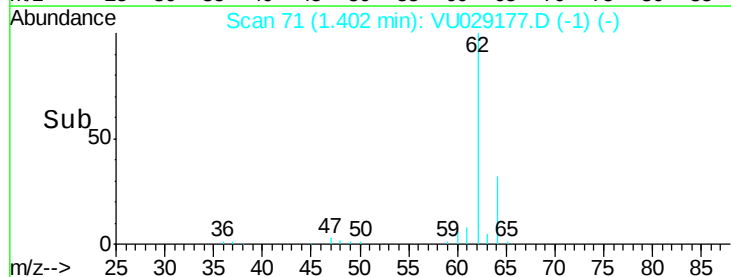
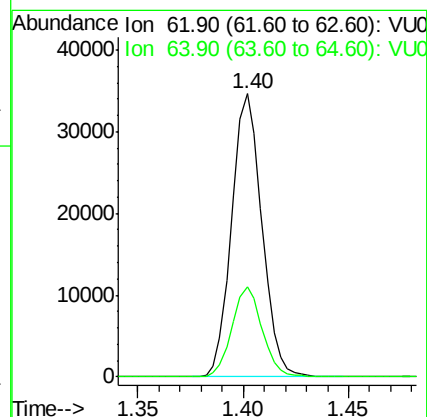
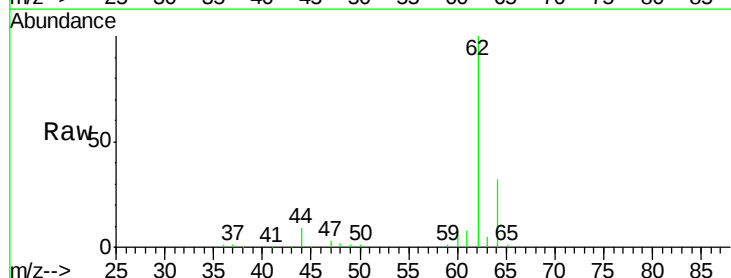
Acq: 15 Jan 2019 11:53

Tgt Ion: 62 Resp: 34489

Ion Ratio Lower Upper

62 100

64 31.8 25.9 38.9





#5

Bromomethane

Concen: 20.910 ug/l

RT: 1.62 min Scan# 138

Delta R.T. 0.01 min

Lab File: VU029177.D

Acq: 15 Jan 2019 11:53

Instrument :

MSVOA_U

ClientSampled :

VU0115WBSD01

Tot Ion: 94 Resp: 19812

Ion Ratio Lower Upper

94 100

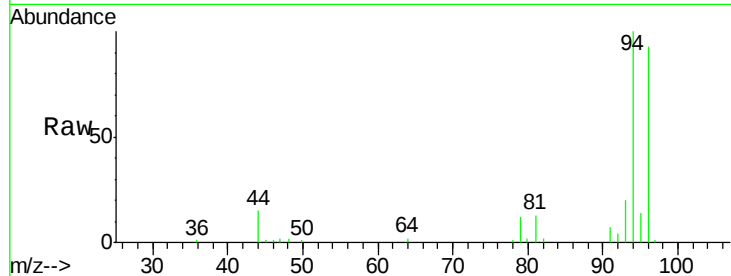
96 93.4 75.5 113.3

Manual Integrations

APPROVED

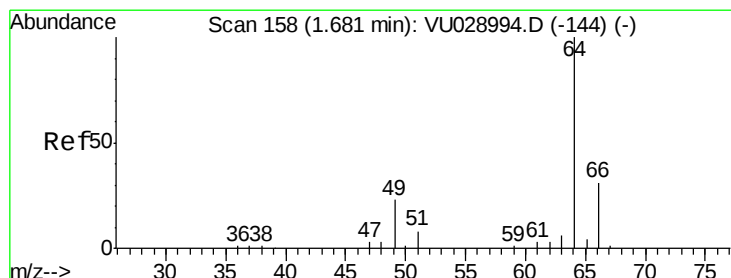
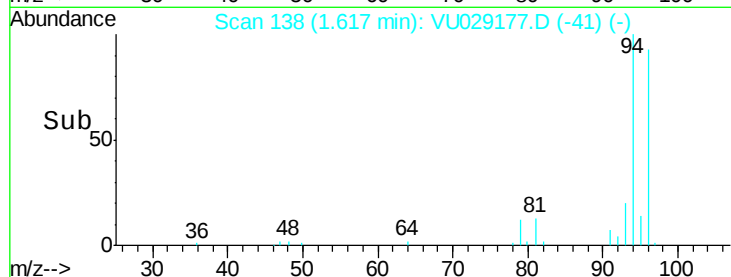
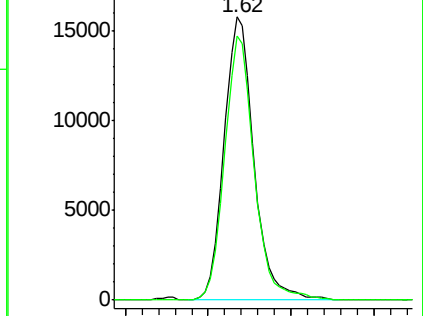
MMDadoda

1/16/2019 9:42:04 AM



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: 20.150 ug/l

RT: 1.69 min Scan# 162

Delta R.T. 0.01 min

Lab File: VU029177.D

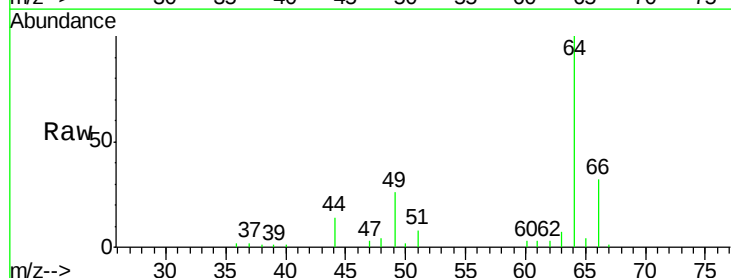
Acq: 15 Jan 2019 11:53

Tgt Ion: 64 Resp: 20396

Ion Ratio Lower Upper

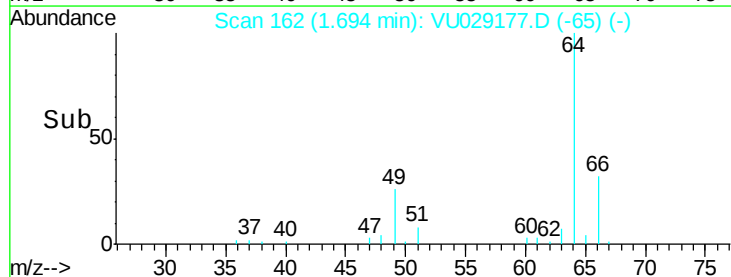
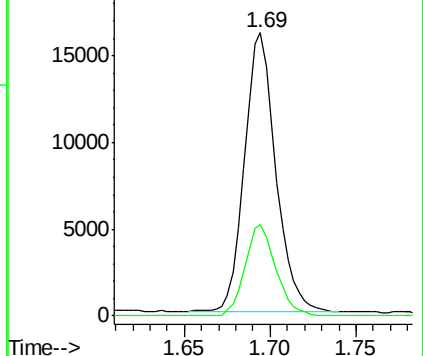
64 100

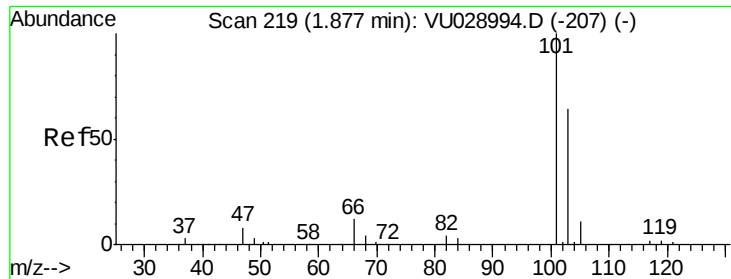
66 32.6 25.2 37.8



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0





#7

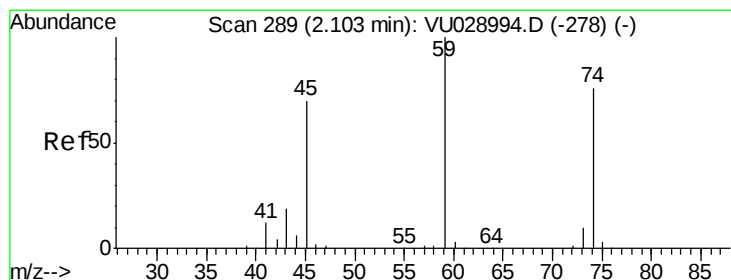
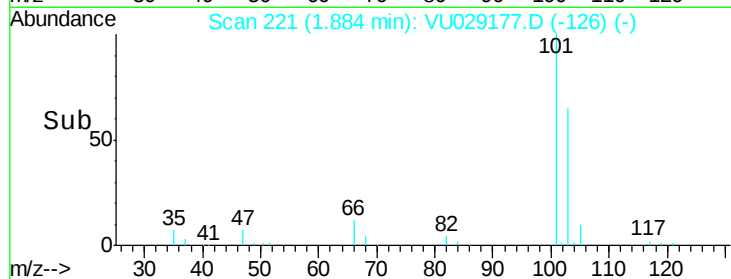
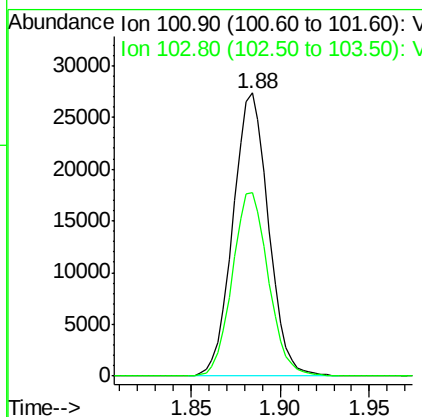
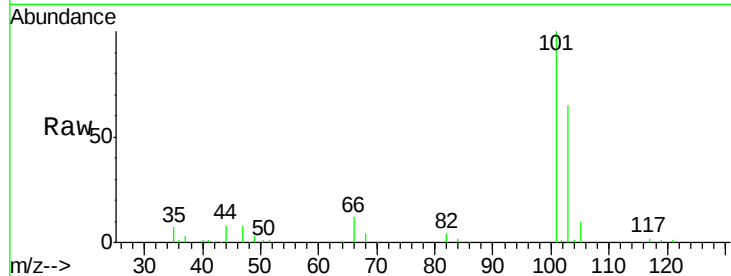
Trichlorofluoromethane
 Concen: 20.425 ug/l
 RT: 1.88 min Scan# 221
 Delta R.T. 0.01 min
 Lab File: VU029177.D
 Acq: 15 Jan 2019 11:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0115WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		37820		
103	65.0		51.5	77.3	

Manual Integrations
 APPROVED

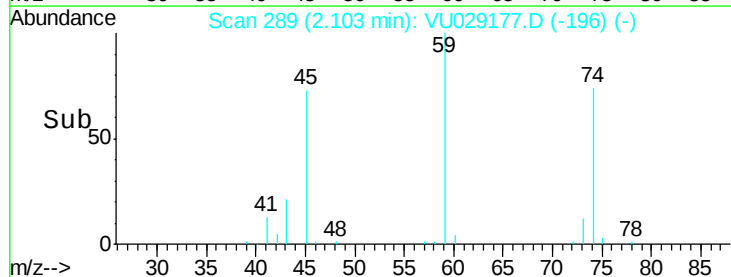
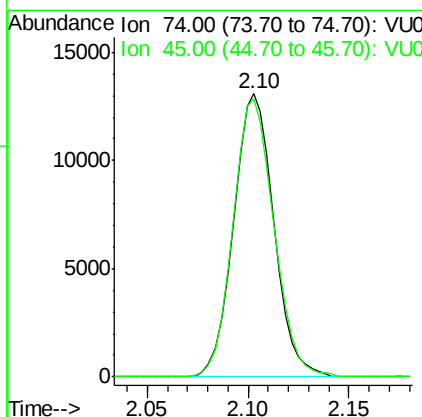
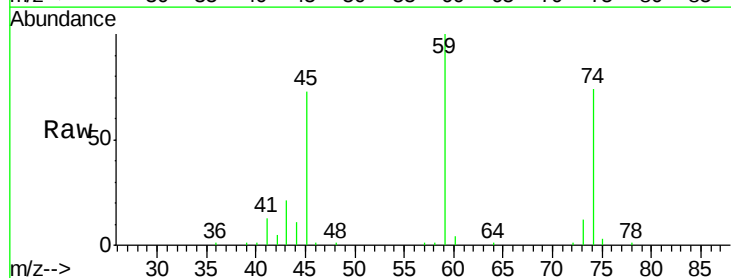
MMDadoda
 1/16/2019 9:42:04 AM

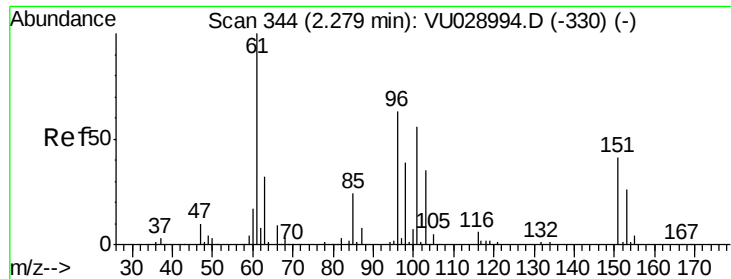


#8

Diethyl Ether
 Concen: 20.535 ug/l
 RT: 2.10 min Scan# 289
 Delta R.T. 0.00 min
 Lab File: VU029177.D
 Acq: 15 Jan 2019 11:53

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		18268		
45	100.2		46.9	140.6	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.969 ug/l

RT: 2.28 min Scan# 345

Delta R.T. 0.00 min

Lab File: VU029177.D

Acq: 15 Jan 2019 11:53

Instrument :

MSVOA_U

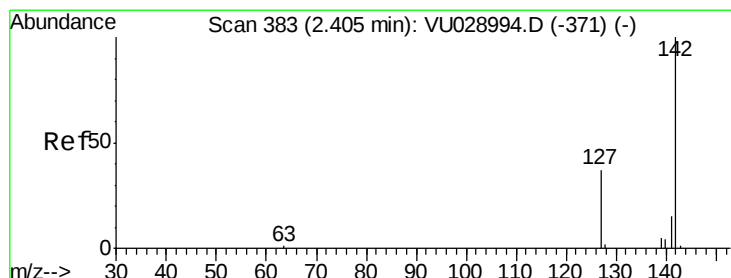
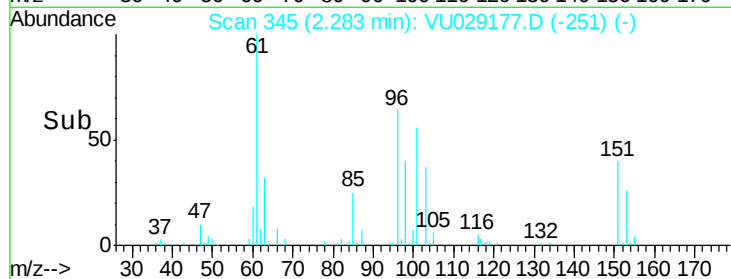
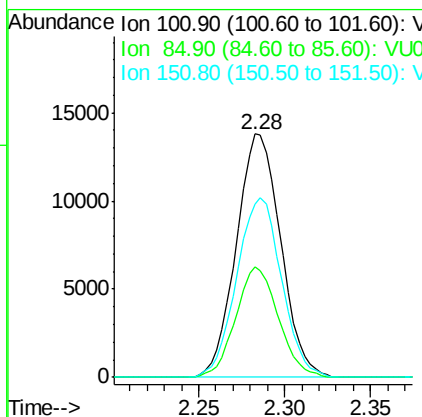
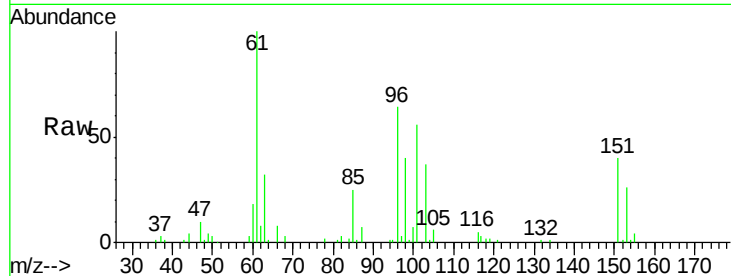
ClientSampleId :

VU0115WBSD01

Tot Ion:	101	Resp:	24741
Ion Ratio	Lower	Upper	
101	100		
85	43.4	35.1	52.7
151	74.6	60.2	90.2

Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:42:04 AM



#10

Methyl Iodide

Concen: 21.979 ug/l

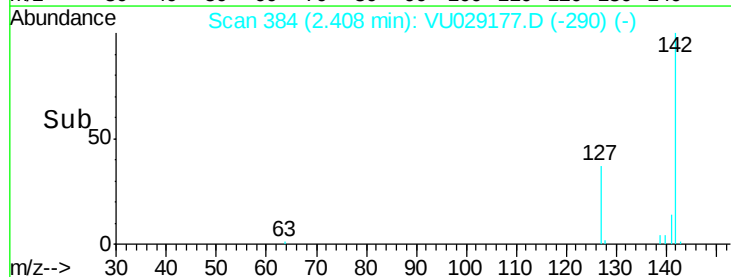
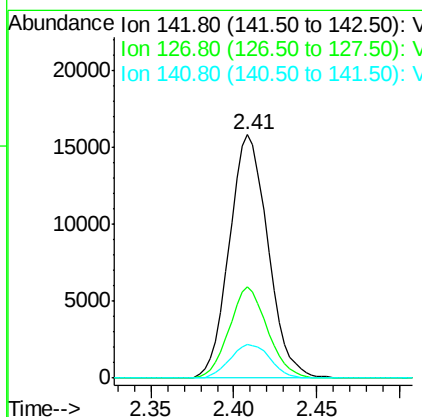
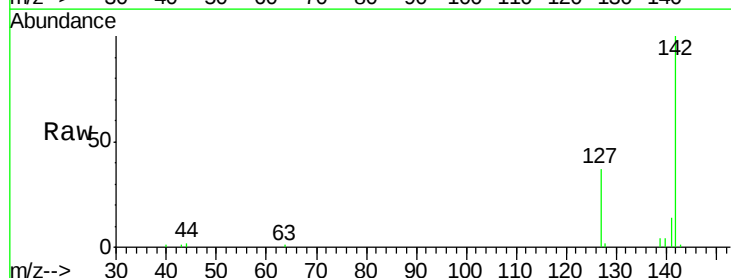
RT: 2.41 min Scan# 384

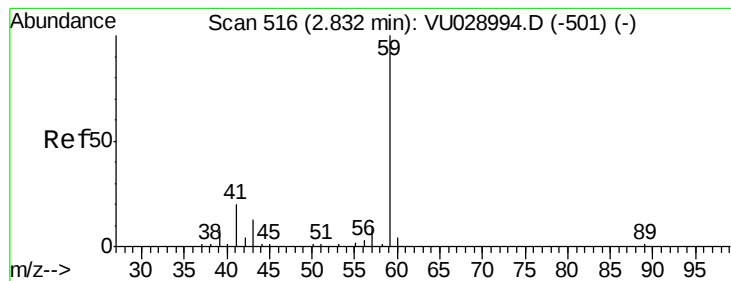
Delta R.T. 0.00 min

Lab File: VU029177.D

Acq: 15 Jan 2019 11:53

Tgt Ion:	142	Resp:	25605
Ion Ratio	Lower	Upper	
142	100		
127	37.2	29.8	44.6
141	14.3	11.5	17.3





#11

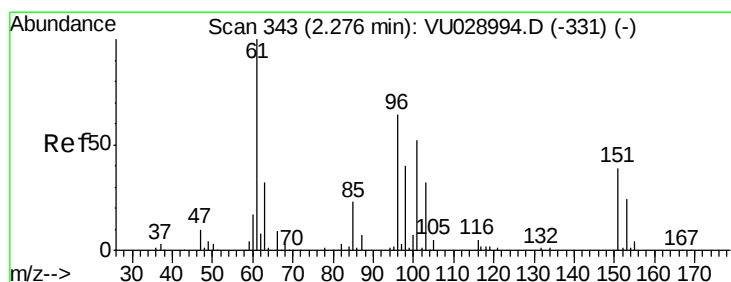
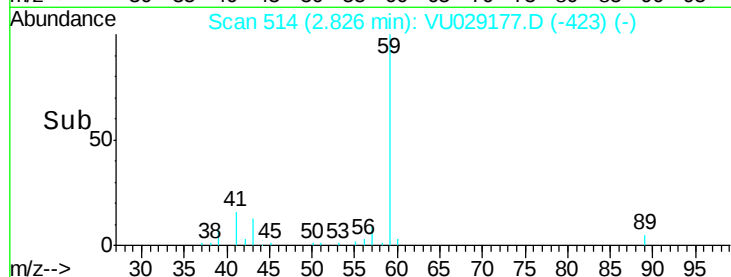
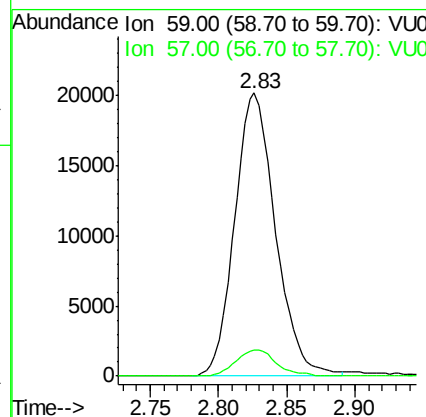
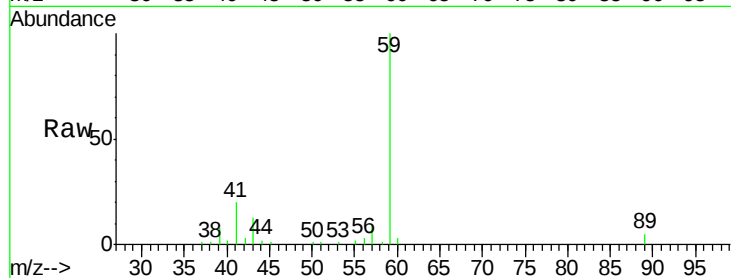
Tert butyl alcohol
 Concen: 114.676 ug/l
 RT: 2.83 min Scan# 514
 Delta R.T. -0.01 min
 Lab File: VU029177.D
 Acq: 15 Jan 2019 11:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0115WBSD01

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.2	7.9	11.9

Manual Integrations
 APPROVED

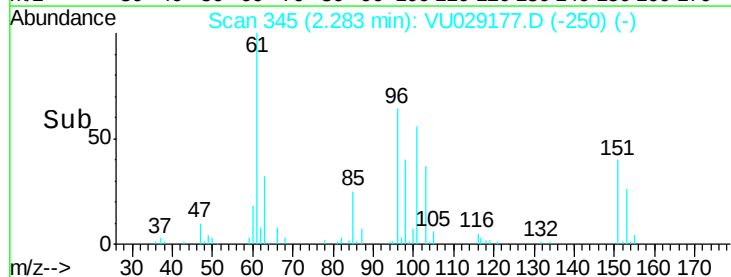
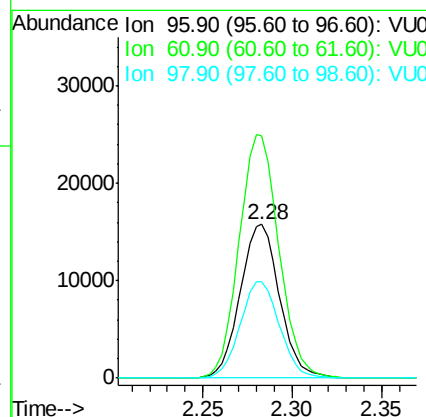
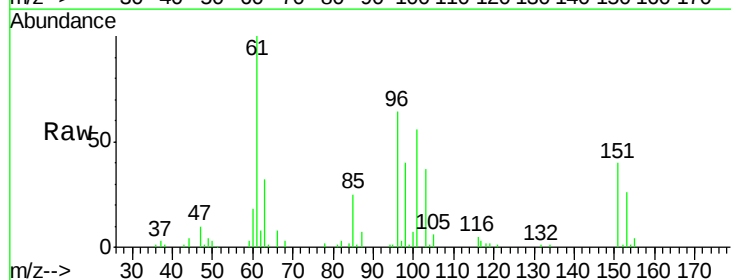
MMDadoda
 1/16/2019 9:42:04 AM

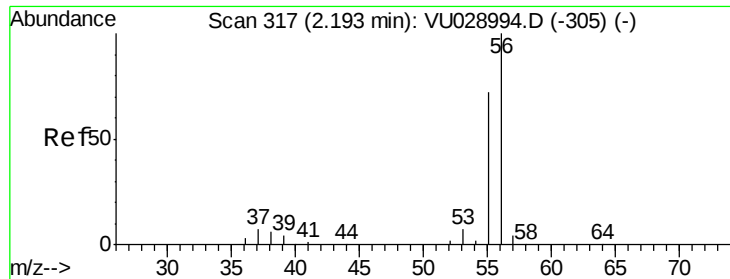


#12

1,1-Dichloroethene
 Concen: 20.152 ug/l
 RT: 2.28 min Scan# 345
 Delta R.T. 0.01 min
 Lab File: VU029177.D
 Acq: 15 Jan 2019 11:53

Tgt Ion	Ratio	Lower	Upper
96	100		
61	157.1	125.4	188.0
98	62.3	49.7	74.5





#13

Acrolein

Concen: 92.479 ug/l

RT: 2.19 min Scan# 317

Delta R.T. 0.00 min

Lab File: VU029177.D

Acq: 15 Jan 2019 11:53

Instrument :

MSVOA_U

ClientSampleId :

VU0115WBSD01

Tot Ion: 56 Resp: 25372

Ion Ratio Lower Upper

56 100

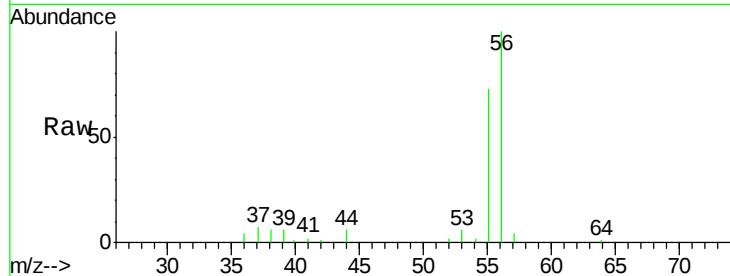
55 71.5 56.5 84.7

Manual Integrations

APPROVED

MMDadoda

1/16/2019 9:42:04 AM



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

20000

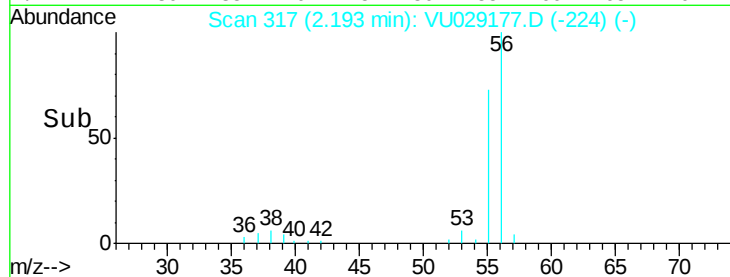
15000

10000

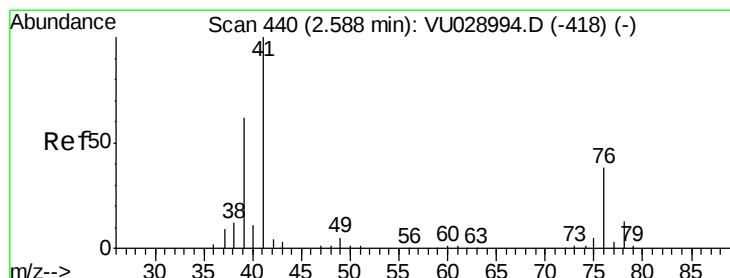
5000

0

Time-->



Time-->



#14

Allyl chloride

Concen: 19.028 ug/l

RT: 2.59 min Scan# 441

Delta R.T. 0.00 min

Lab File: VU029177.D

Acq: 15 Jan 2019 11:53

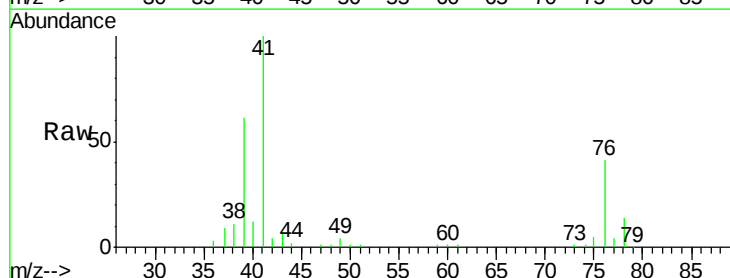
Tgt Ion: 41 Resp: 42103

Ion Ratio Lower Upper

41 100

39 63.0 45.0 67.6

76 38.5 28.1 42.1



Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 75.90 (75.60 to 76.60): VU0

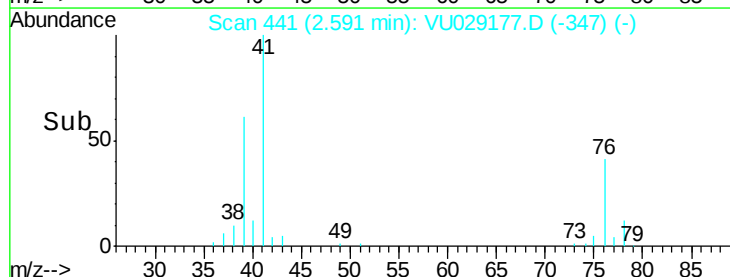
30000

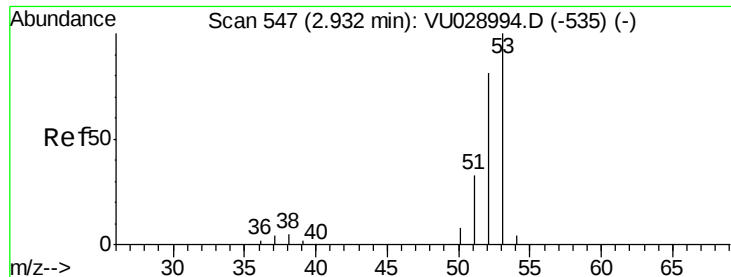
20000

10000

0

Time-->





#15

Acrylonitrile

Concen: 111.326 ug/l

RT: 2.93 min Scan# 547

Delta R.T. 0.00 min

Lab File: VU029177.D

Acq: 15 Jan 2019 11:53

Instrument :

MSVOA_U

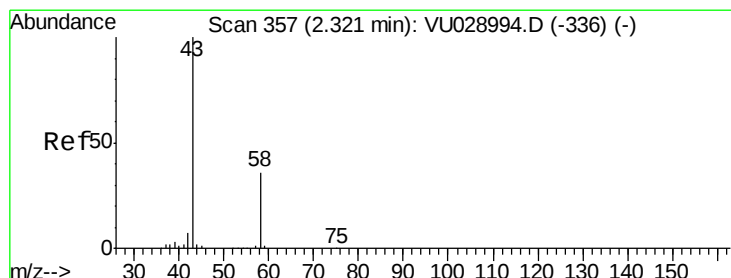
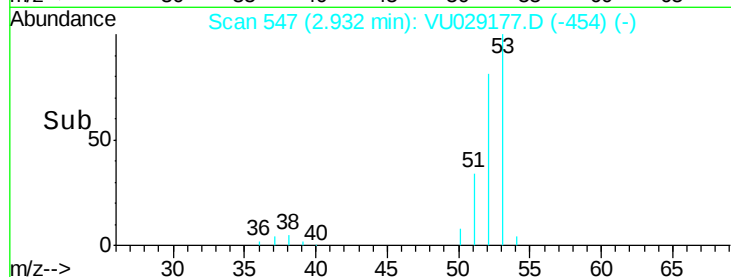
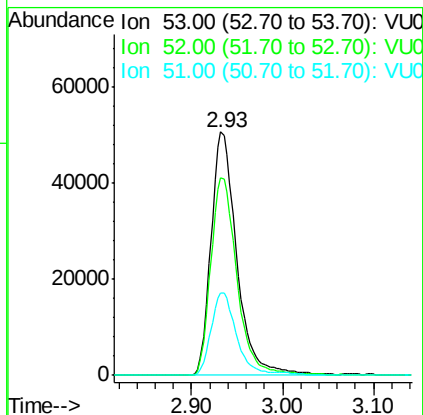
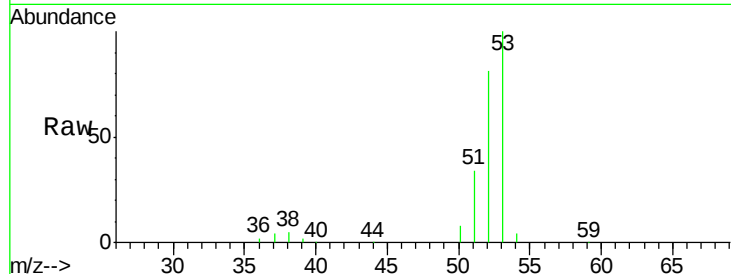
ClientSampleId :

VU0115WBSD01

Tot Ion:	53	Resp:	99790
Ion	Ratio	Lower	Upper
53	100		
52	82.6	64.8	97.2
51	34.2	27.3	40.9

Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:42:04 AM



#16

Acetone

Concen: 97.501 ug/l

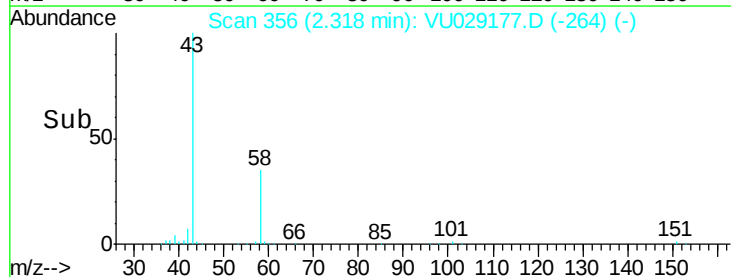
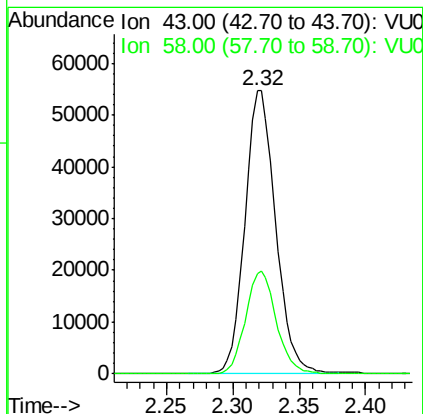
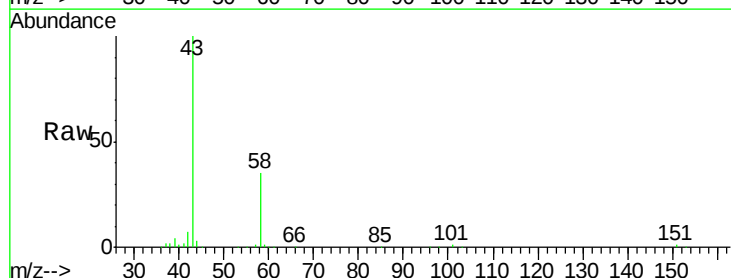
RT: 2.32 min Scan# 356

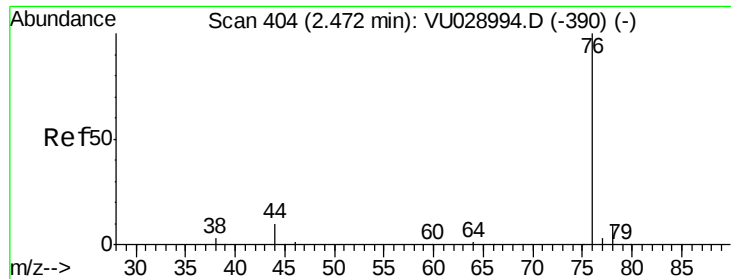
Delta R.T. -0.00 min

Lab File: VU029177.D

Acq: 15 Jan 2019 11:53

Tgt Ion:	43	Resp:	88288
Ion	Ratio	Lower	Upper
43	100		
58	35.4	28.6	42.8





#17

Carbon Disulfide

Concen: 18.283 ug/l

RT: 2.48 min Scan# 405

Delta R.T. 0.00 min

Lab File: VU029177.D

Acq: 15 Jan 2019 11:53

Instrument :

MSVOA_U

ClientSampleId :

VU0115WBSD01

Tot Ion: 76 Resp: 74424

Ion Ratio Lower Upper

76 100

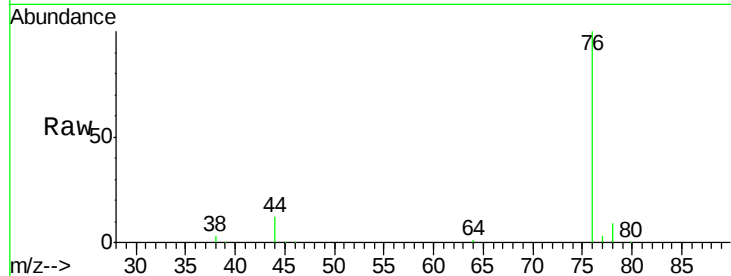
78 9.1 7.2 10.8

Manual Integrations

APPROVED

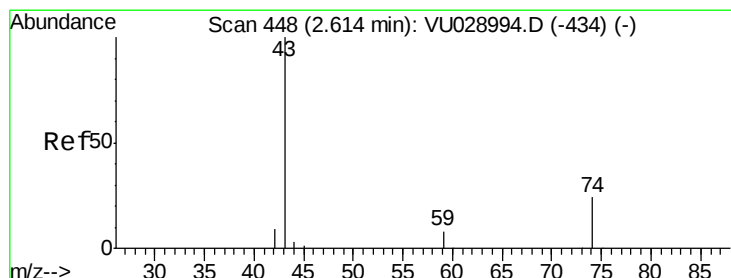
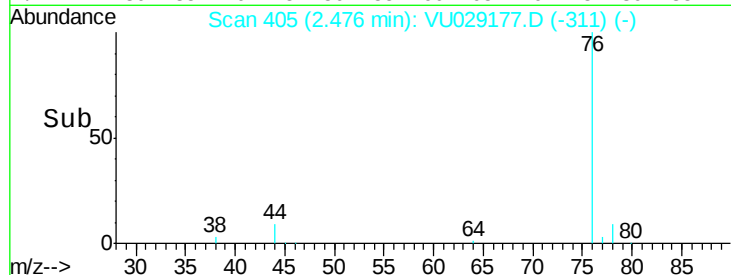
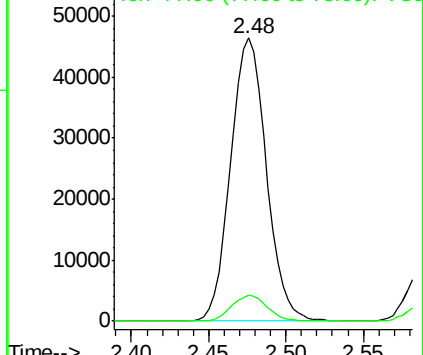
MMDadoda

1/16/2019 9:42:04 AM



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#18

Methyl Acetate

Concen: 23.506 ug/l

RT: 2.61 min Scan# 448

Delta R.T. 0.00 min

Lab File: VU029177.D

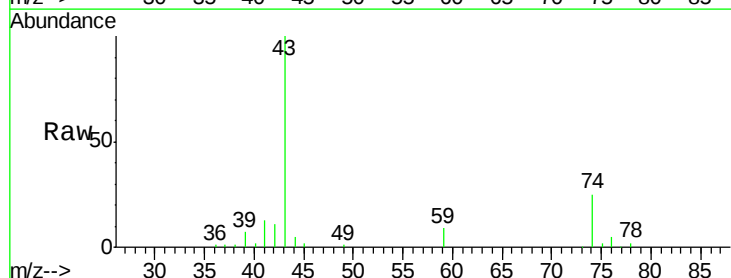
Acq: 15 Jan 2019 11:53

Tgt Ion: 43 Resp: 49491

Ion Ratio Lower Upper

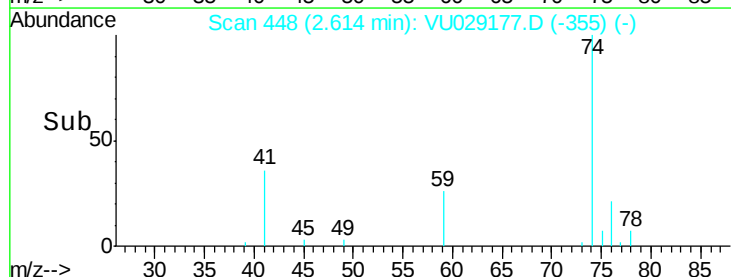
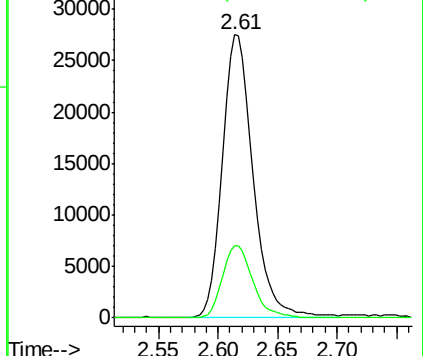
43 100

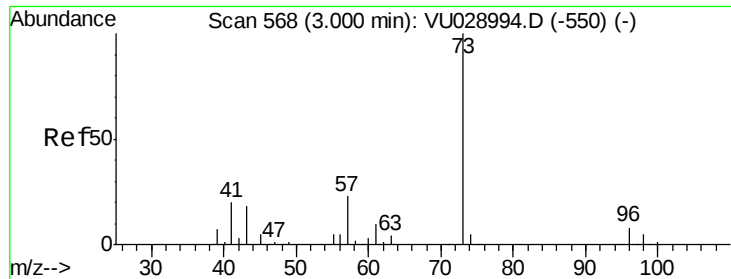
74 25.0 19.5 29.3



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0





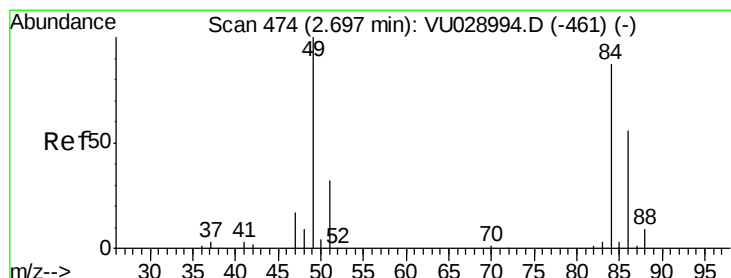
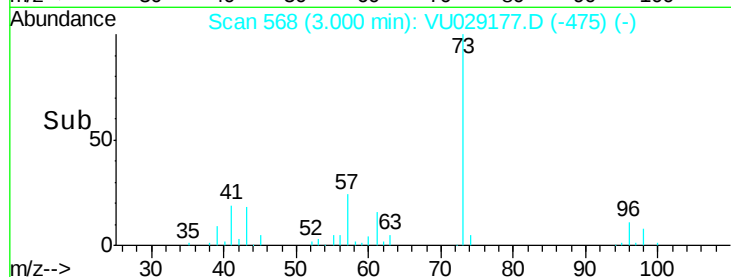
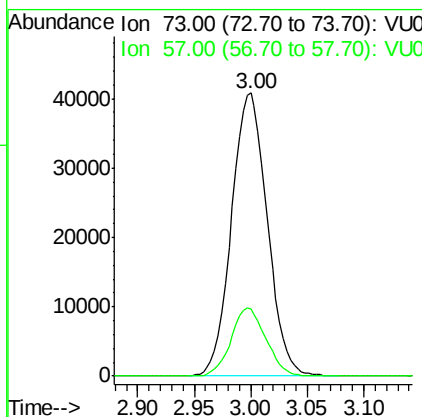
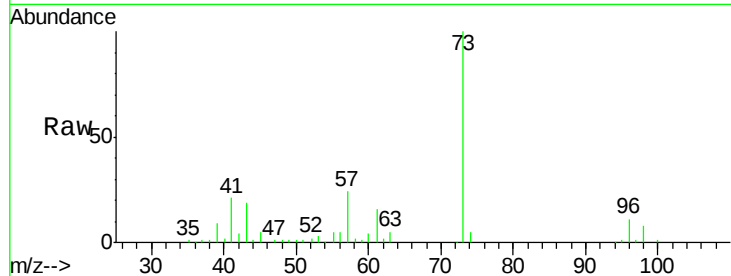
#19
Methvl tert-butvl Ether
Concen: 21.139 ug/l
RT: 3.00 min Scan# 568
Delta R.T. 0.00 min
Lab File: VU029177.D
Acq: 15 Jan 2019 11:53

Instrument :
MSVOA_U
ClientSampleId :
VU0115WBSD01

Tot Ion: 73 Resp: 89627
Ion Ratio Lower Upper
73 100
57 23.6 18.6 28.0

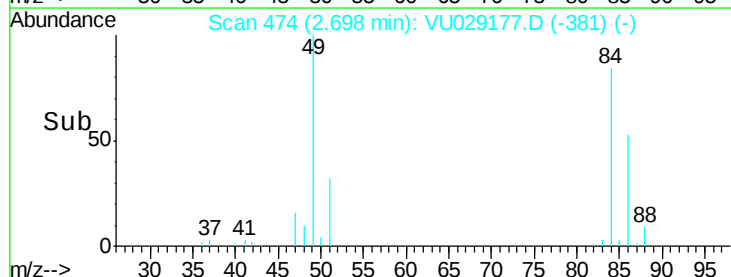
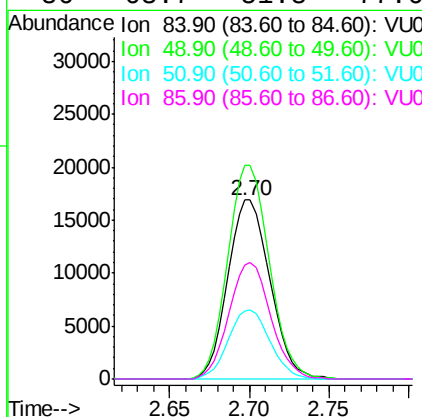
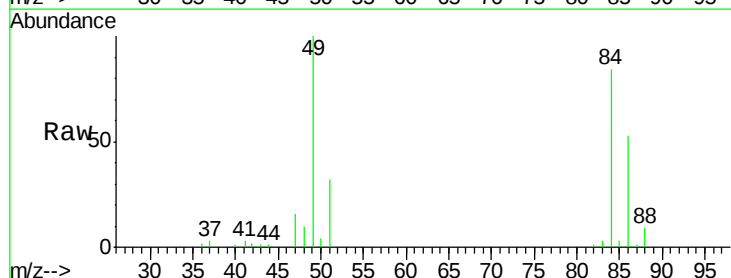
Manual Integrations
APPROVED

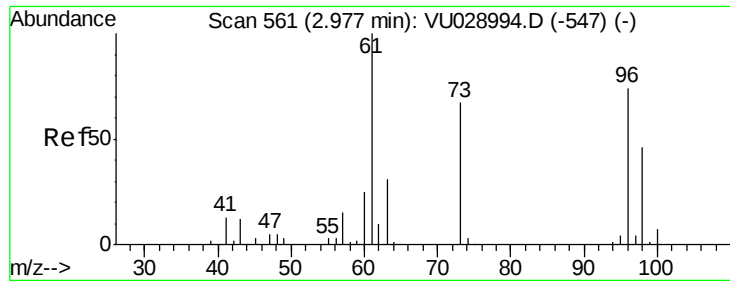
MMDadoda
1/16/2019 9:42:04 AM



#20
Methylene Chloride
Concen: 19.728 ug/l
RT: 2.70 min Scan# 474
Delta R.T. 0.00 min
Lab File: VU029177.D
Acq: 15 Jan 2019 11:53

Tgt Ion: 84 Resp: 30330
Ion Ratio Lower Upper
84 100
49 119.4 91.9 137.9
51 38.1 29.2 43.8
86 63.7 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 19.883 ug/l

RT: 2.98 min Scan# 562

Delta R.T. 0.00 min

Lab File: VU029177.D

Acq: 15 Jan 2019 11:53

Instrument :

MSVOA_U

ClientSampleId :

VU0115WBSD01

Tot Ion: 96 Resp: 27858

Ion Ratio Lower Upper

96 100

61 135.0 107.7 161.5

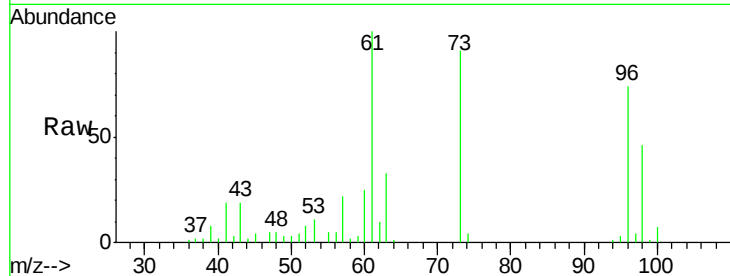
98 62.6 49.2 73.8

Manual Integrations

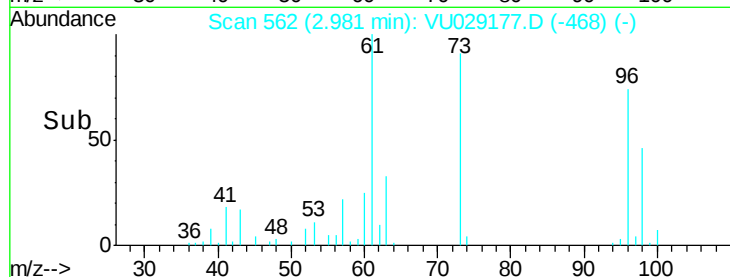
APPROVED

MMDadoda

1/16/2019 9:42:04 AM



Abundance Ion 95.90 (95.60 to 96.60): VU029177.D (-468) (-)

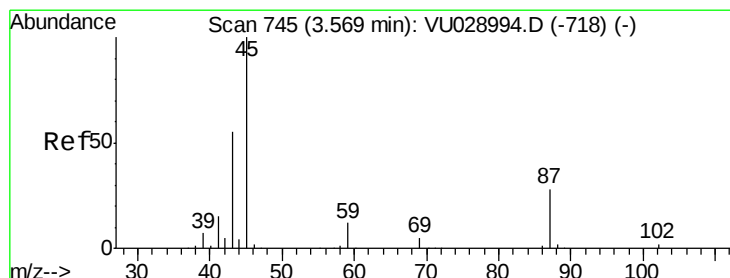


Ion 60.90 (60.60 to 61.60): VU029177.D (-468) (-)

Ion 97.90 (97.60 to 98.60): VU029177.D (-468) (-)

2.98

Time-->



#22

Diisopropyl ether

Concen: 21.802 ug/l

RT: 3.57 min Scan# 745

Delta R.T. 0.00 min

Lab File: VU029177.D

Acq: 15 Jan 2019 11:53

Tgt Ion: 45 Resp: 95346

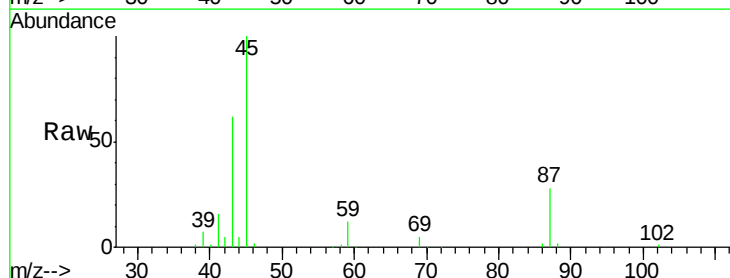
Ion Ratio Lower Upper

45 100

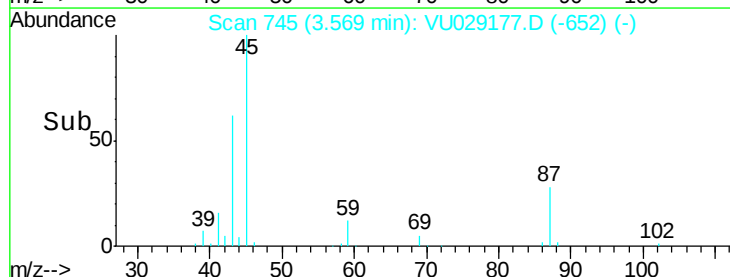
43 61.1 44.7 67.1

87 27.8 22.2 33.2

59 11.5 9.8 14.8



Abundance Ion 45.00 (44.70 to 45.70): VU029177.D (-652) (-)



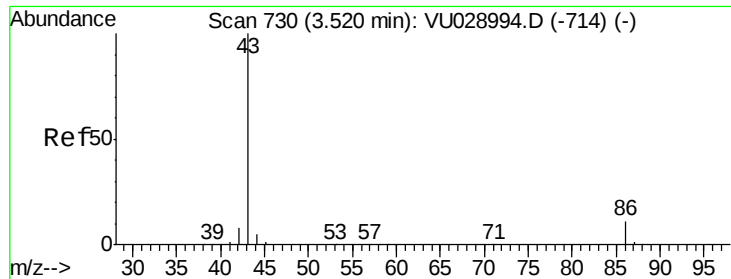
Ion 43.00 (42.70 to 43.70): VU029177.D (-652) (-)

Ion 87.00 (86.70 to 87.70): VU029177.D (-652) (-)

Ion 59.00 (58.70 to 59.70): VU029177.D (-652) (-)

3.57

Time-->



#23

Vinyl Acetate

Concen: 106.840 ug/l

RT: 3.52 min Scan# 731

Delta R.T. 0.00 min

Lab File: VU029177.D

Acq: 15 Jan 2019 11:53

Tot Ion: 43 Resp: 381965

Ion Ratio Lower Upper

43 100

86 10.9 8.6 13.0

Instrument :

MSVOA_U

ClientSampleId :

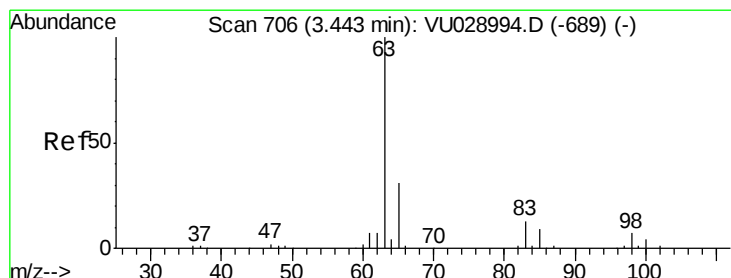
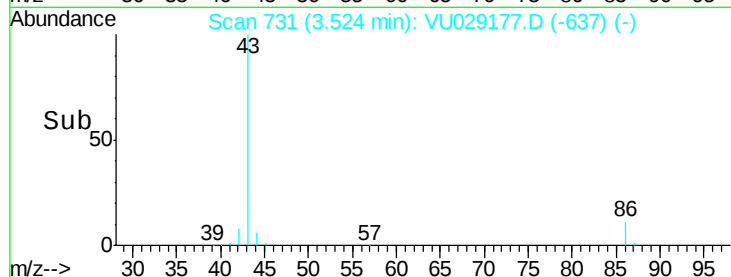
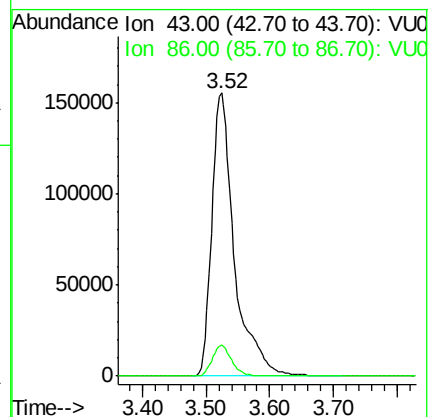
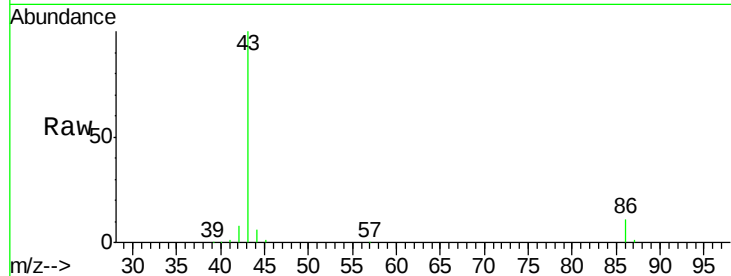
VU0115WBSD01

Manual Integrations

APPROVED

MMDadoda

1/16/2019 9:42:04 AM



#24

1,1-Dichloroethane

Concen: 21.326 ug/l

RT: 3.44 min Scan# 706

Delta R.T. 0.00 min

Lab File: VU029177.D

Acq: 15 Jan 2019 11:53

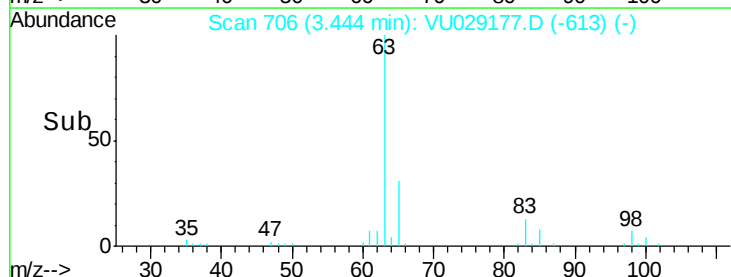
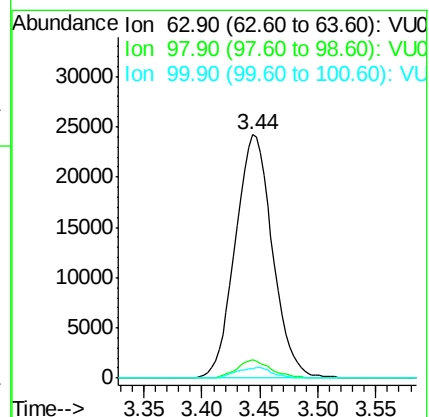
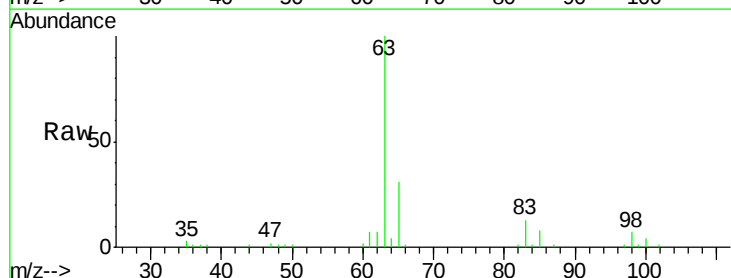
Tgt Ion: 63 Resp: 53839

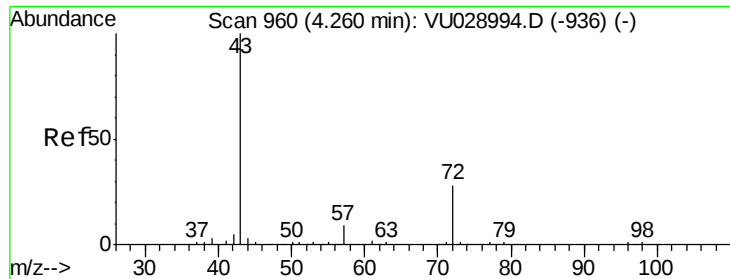
Ion Ratio Lower Upper

63 100

98 7.3 3.4 10.1

100 4.0 2.0 5.8





#25

2-Butanone

Concen: 111.338 ug/l

RT: 4.26 min Scan# 960

Delta R.T. 0.00 min

Lab File: VU029177.D

Acq: 15 Jan 2019 11:53

Instrument :

MSVOA_U

ClientSampleId :

VU0115WBSD01

Tot Ion: 43 Resp: 136170

Ion Ratio Lower Upper

43 100

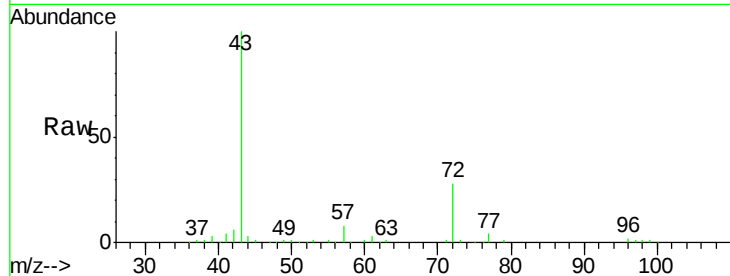
72 27.8 22.6 33.8

Manual Integrations

APPROVED

MMDadoda

1/16/2019 9:42:04 AM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

60000

50000

40000

30000

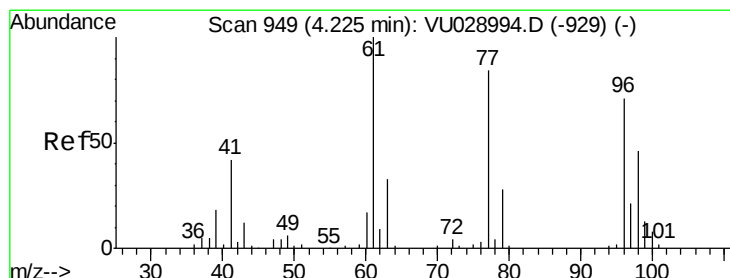
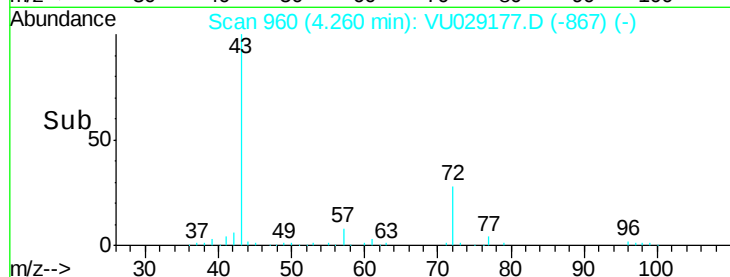
20000

10000

0

4.15 4.20 4.25 4.30 4.35

Time-->



#26

2,2-Dichloropropane

Concen: 21.197 ug/l

RT: 4.22 min Scan# 948

Delta R.T. -0.00 min

Lab File: VU029177.D

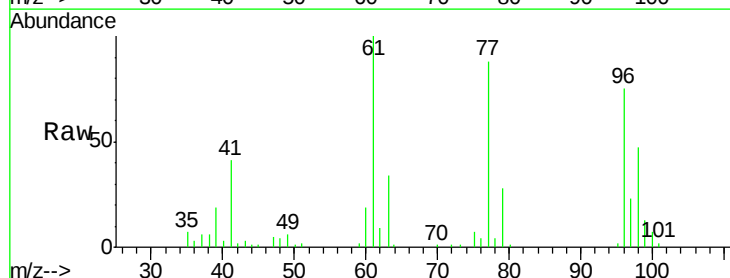
Acq: 15 Jan 2019 11:53

Tgt Ion: 77 Resp: 43240

Ion Ratio Lower Upper

77 100

97 23.9 12.0 36.1



Abundance Ion 76.90 (76.60 to 77.60): VU0

Ion 96.90 (96.60 to 97.60): VU0

15000

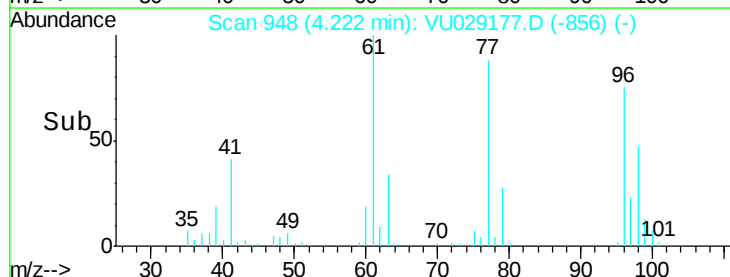
10000

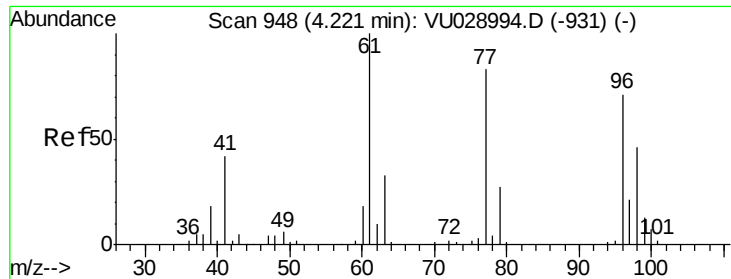
5000

0

4.10 4.15 4.20 4.25 4.30

Time-->





#27

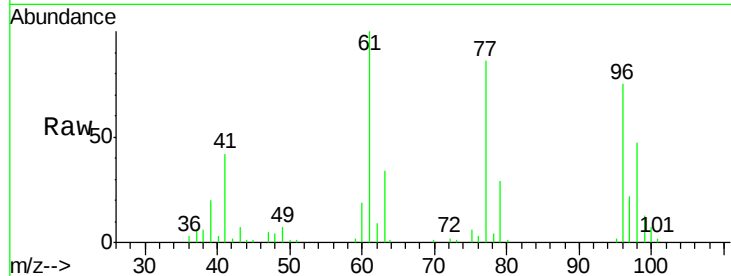
cis-1,2-Dichloroethene
Concen: 21.082 ug/l
RT: 4.22 min Scan# 949
Delta R.T. 0.00 min
Lab File: VU029177.D
Acq: 15 Jan 2019 11:53

Instrument :
MSVOA_U
ClientSampleId :
VU0115WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	32307		
61	143.2	0.0	285.6	
98	63.5	0.0	130.2	

Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:42:04 AM

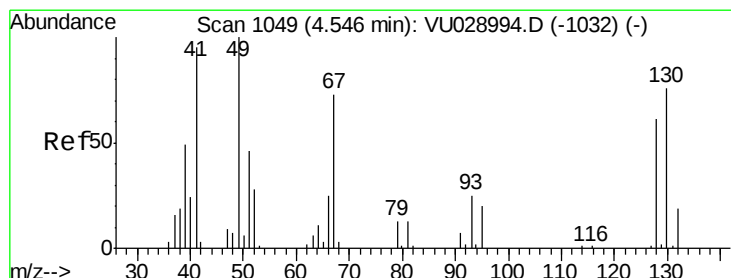
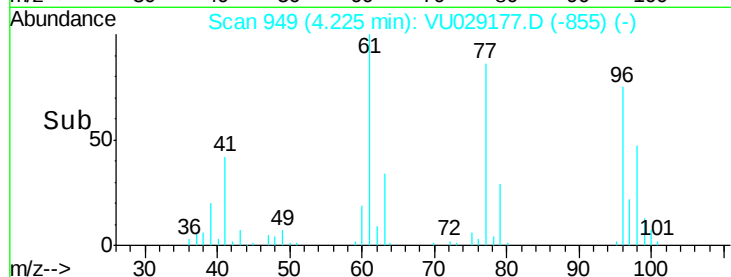
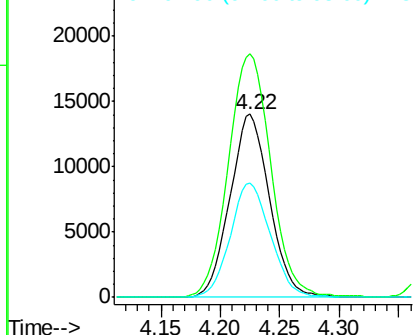


Abundance

Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

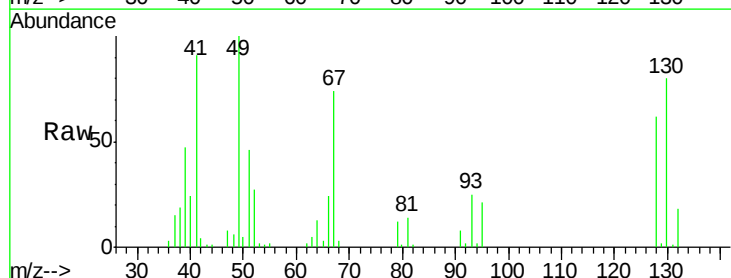
Ion 97.90 (97.60 to 98.60): VU0



#28

Bromochloromethane
Concen: 23.164 ug/l
RT: 4.55 min Scan# 1049
Delta R.T. 0.00 min
Lab File: VU029177.D
Acq: 15 Jan 2019 11:53

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	25040		
129	1.6	0.0	3.4	
130	78.0	62.9	94.3	

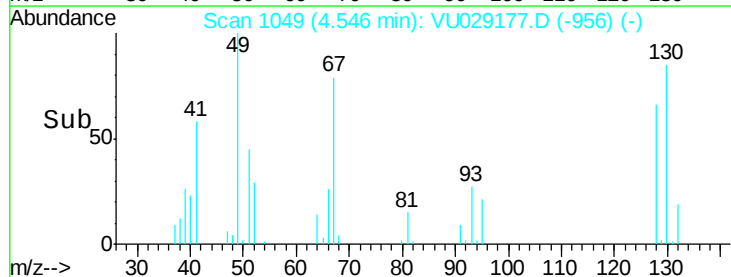
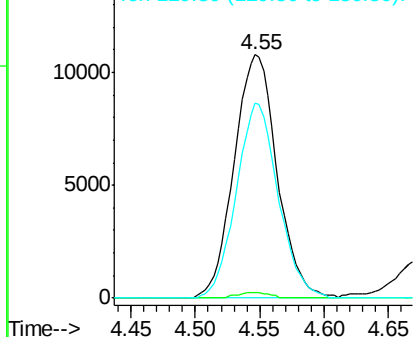


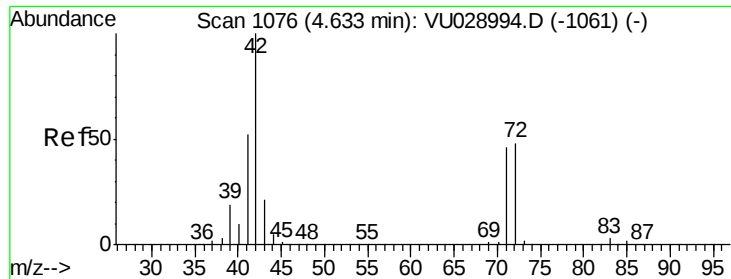
Abundance

Ion 48.90 (48.60 to 49.60): VU0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





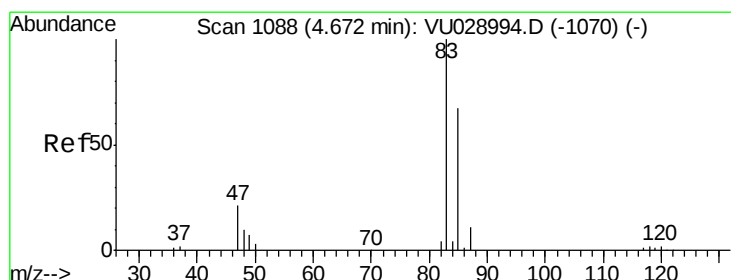
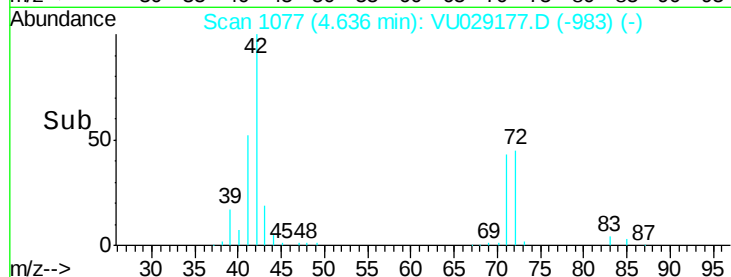
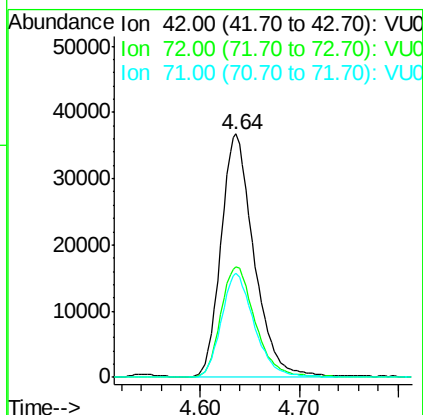
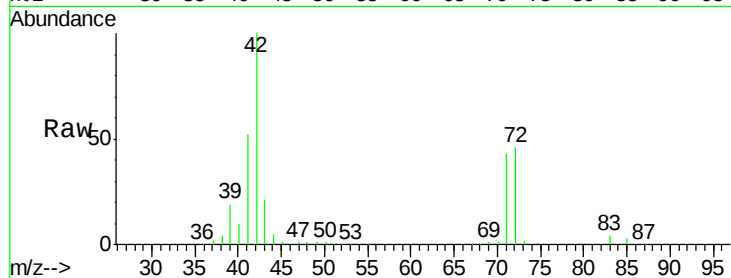
#29
Tetrahydrofuran
Concen: 116.484 ug/l
RT: 4.64 min Scan# 1077
Delta R.T. 0.00 min
Lab File: VU029177.D
Acq: 15 Jan 2019 11:53

Instrument :
MSVOA_U
ClientSampleId :
VU0115WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	47.0	38.3	57.5
71	42.6	36.1	54.1

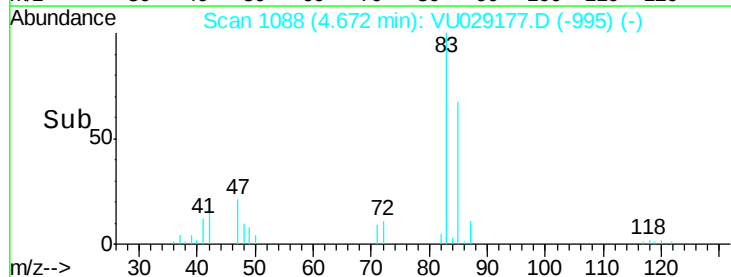
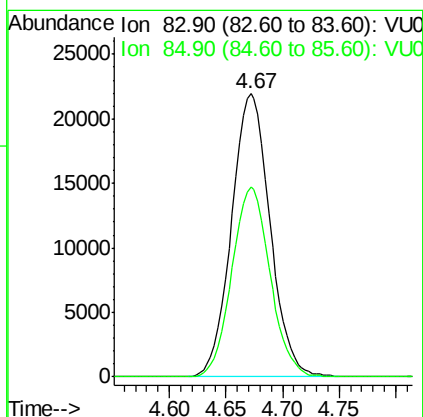
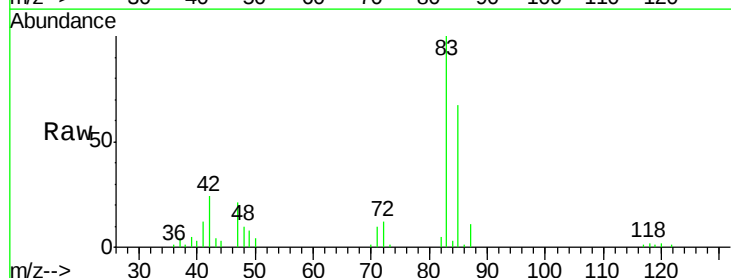
Manual Integrations
APPROVED

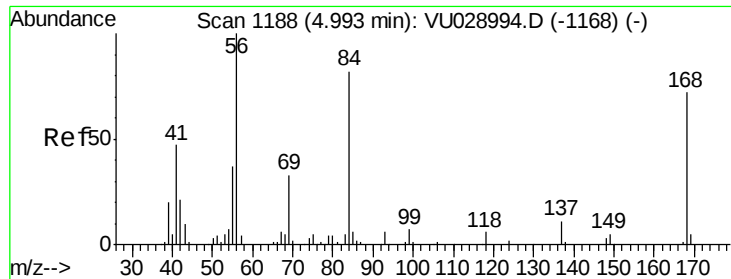
MMDadoda
1/16/2019 9:42:04 AM



#30
Chloroform
Concen: 21.614 ug/l
RT: 4.67 min Scan# 1088
Delta R.T. 0.00 min
Lab File: VU029177.D
Acq: 15 Jan 2019 11:53

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.0	53.4	80.0





#31

Cyclohexane

Concen: 20.406 ug/l

RT: 4.99 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU029177.D

Acq: 15 Jan 2019 11:53

Instrument :

MSVOA_U

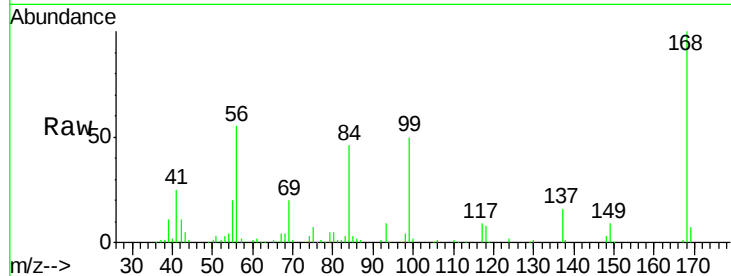
ClientSampleId :

VU0115WBSD01

Tot Ion:	56	Resp:	50214
Ion Ratio	Lower	Upper	
56	100		
69	35.8	26.7	40.1
84	82.8	65.7	98.5

Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:42:04 AM

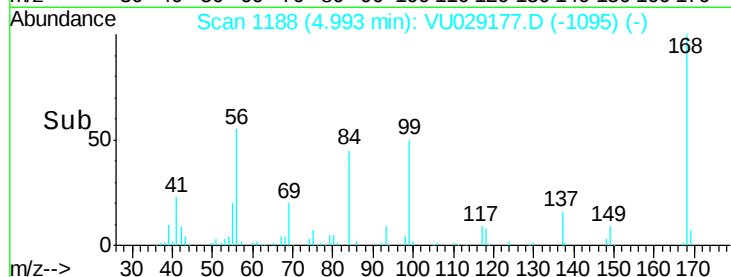


Abundance Ion 56.00 (55.70 to 56.70): VU028994.D (-1168) (-)

Ion 69.00 (68.70 to 69.70): VU028994.D (-1168) (-)

Ion 84.00 (83.70 to 84.70): VU028994.D (-1168) (-)

Time-->



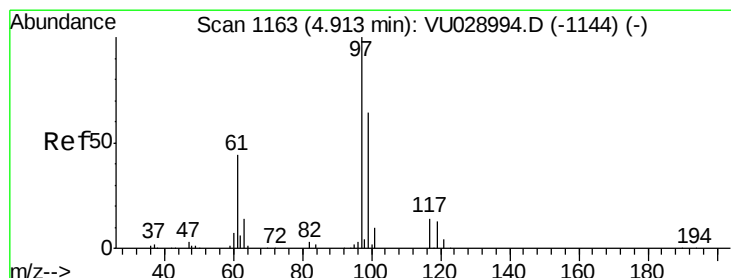
Abundance

Ion 56.00 (55.70 to 56.70): VU029177.D (-1095) (-)

Ion 69.00 (68.70 to 69.70): VU029177.D (-1095) (-)

Ion 84.00 (83.70 to 84.70): VU029177.D (-1095) (-)

Time-->



#32

1,1,1-Trichloroethane

Concen: 21.455 ug/l

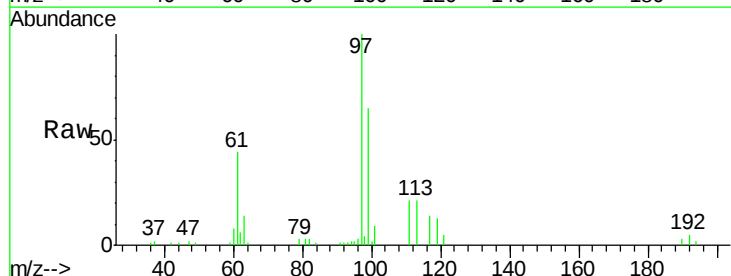
RT: 4.91 min Scan# 1163

Delta R.T. 0.00 min

Lab File: VU029177.D

Acq: 15 Jan 2019 11:53

Tgt Ion:	97	Resp:	42627
Ion Ratio	Lower	Upper	
97	100		
99	63.4	51.0	76.4
61	44.8	34.4	51.6

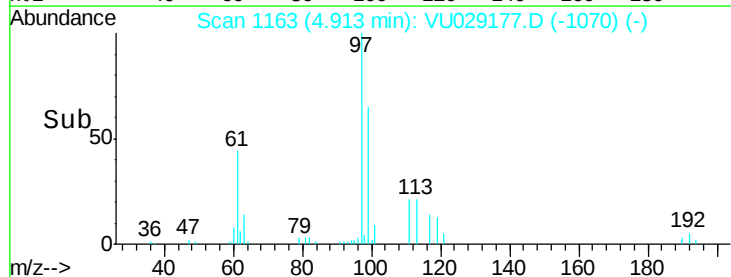


Abundance Ion 96.90 (96.60 to 97.60): VU028994.D (-1144) (-)

Ion 98.90 (98.60 to 99.60): VU028994.D (-1144) (-)

Ion 60.90 (60.60 to 61.60): VU028994.D (-1144) (-)

Time-->



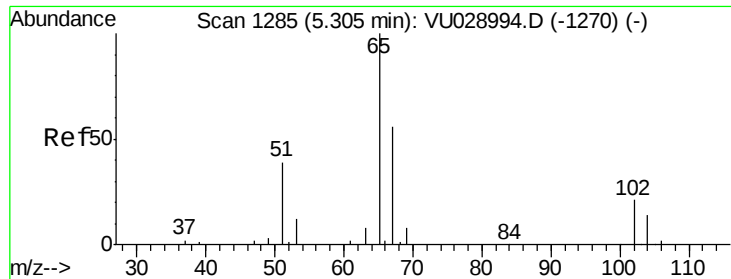
Abundance

Ion 96.90 (96.60 to 97.60): VU029177.D (-1070) (-)

Ion 98.90 (98.60 to 99.60): VU029177.D (-1070) (-)

Ion 60.90 (60.60 to 61.60): VU029177.D (-1070) (-)

Time-->



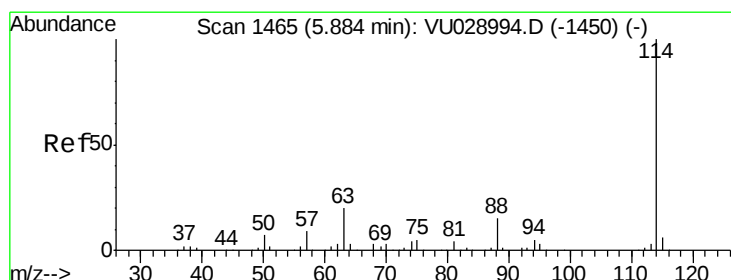
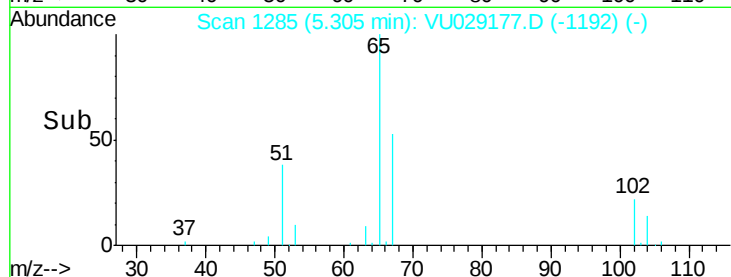
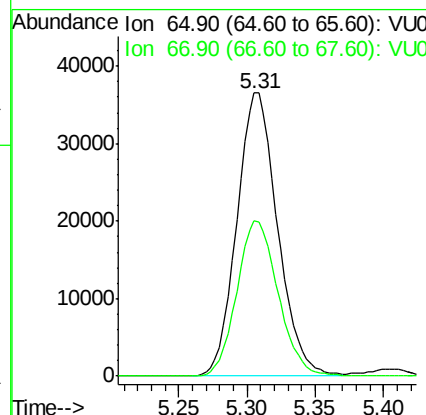
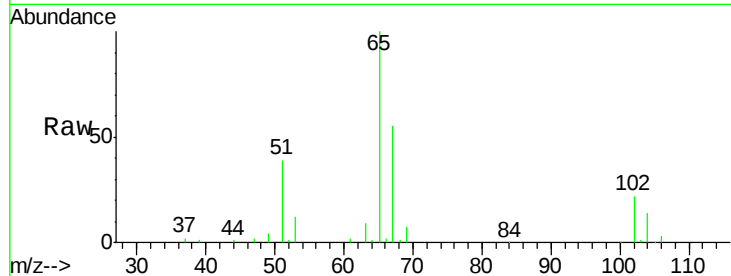
#33
 1,2-Dichloroethane-d4
 Concen: 52.819 ug/l
 RT: 5.31 min Scan# 1285
 Delta R.T. 0.00 min
 Lab File: VU029177.D
 Acq: 15 Jan 2019 11:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0115WBSD01

Tot Ion	Ratio	Lower	Upper
65	100		
67	55.4	0.0	111.0

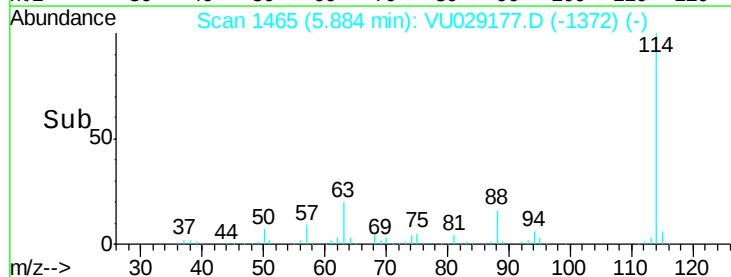
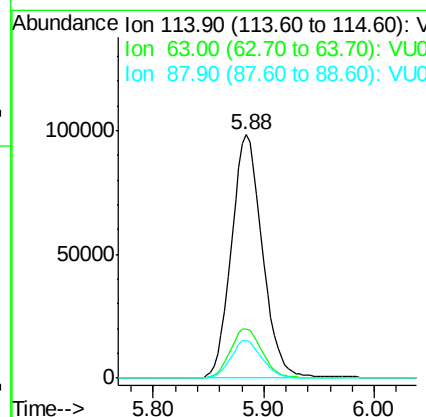
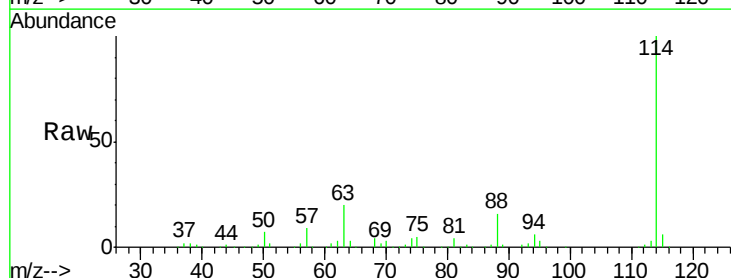
Manual Integrations
 APPROVED

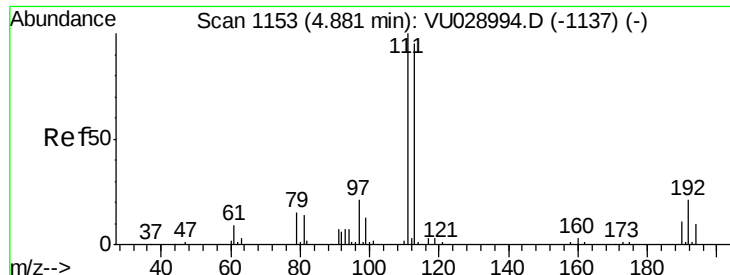
MMDadoda
 1/16/2019 9:42:04 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU029177.D
 Acq: 15 Jan 2019 11:53

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	40.2
88	15.6	0.0	30.4





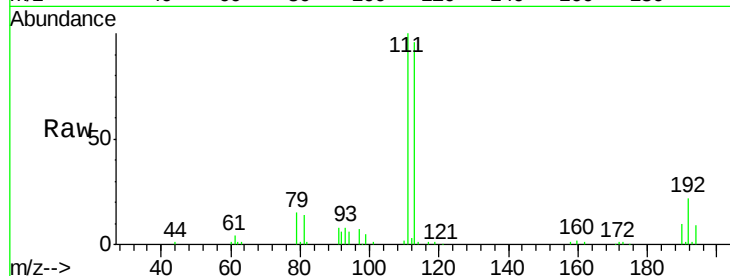
#35
 Dibromofluoromethane
 Concen: 51.933 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. 0.00 min
 Lab File: VU029177.D
 Acq: 15 Jan 2019 11:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0115WBSD01

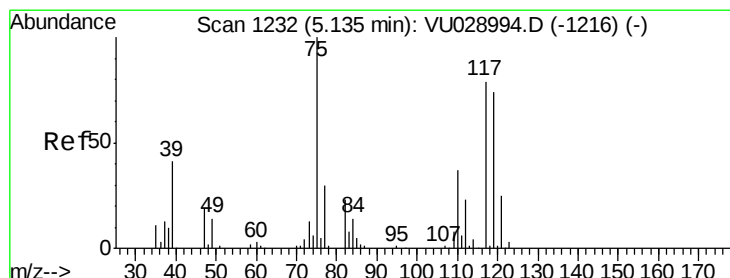
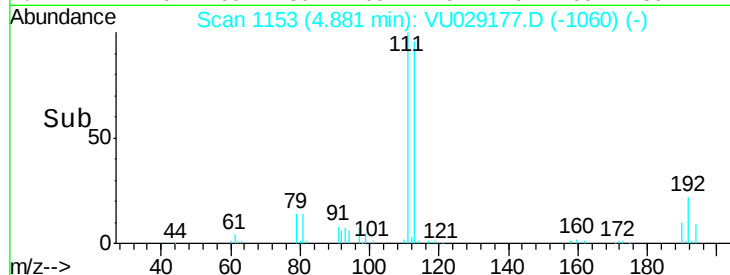
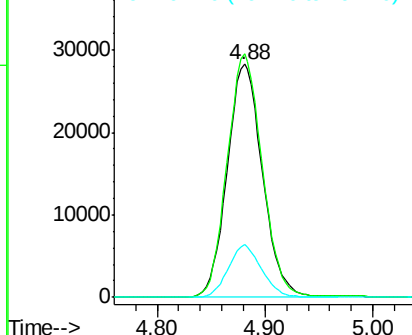
Tot Ion	Ratio	Resp	Lower	Upper
113	100	64483		
111	103.3	81.4	122.2	
192	21.3	16.8	25.2	

Manual Integrations
 APPROVED

MMDadoda
 1/16/2019 9:42:04 AM

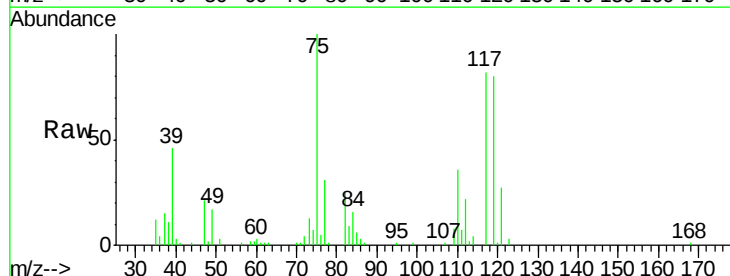


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

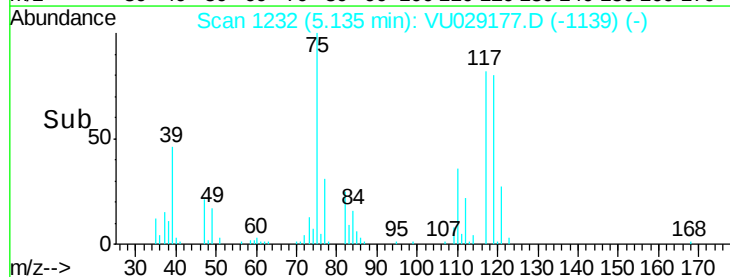
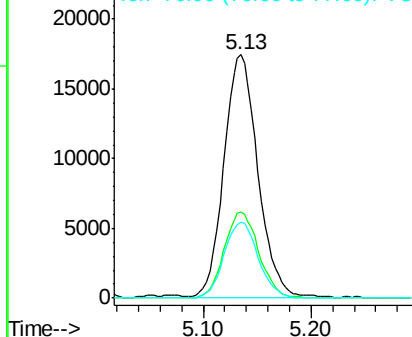


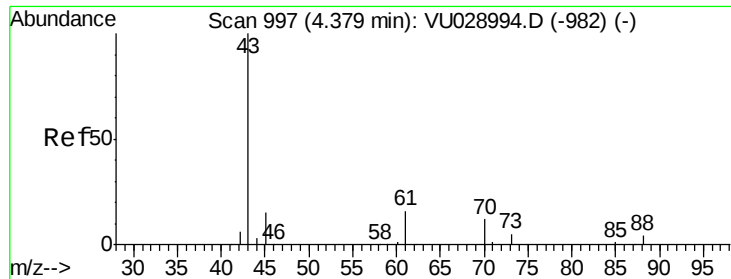
#36
 1,1-Dichloropropene
 Concen: 20.085 ug/l
 RT: 5.13 min Scan# 1232
 Delta R.T. 0.00 min
 Lab File: VU029177.D
 Acq: 15 Jan 2019 11:53

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	38454		
110	35.8	18.4	55.4	
77	31.1	25.1	37.7	



Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VU0





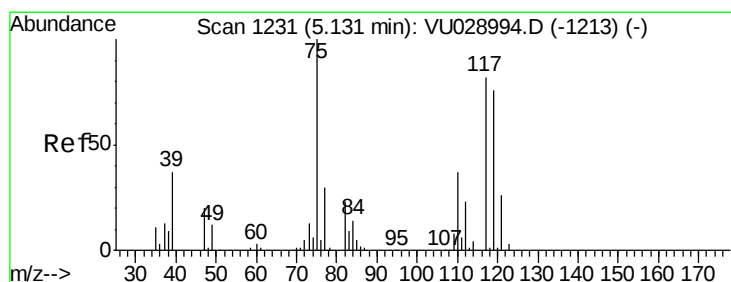
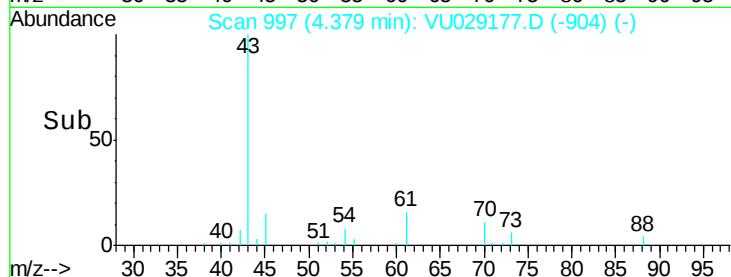
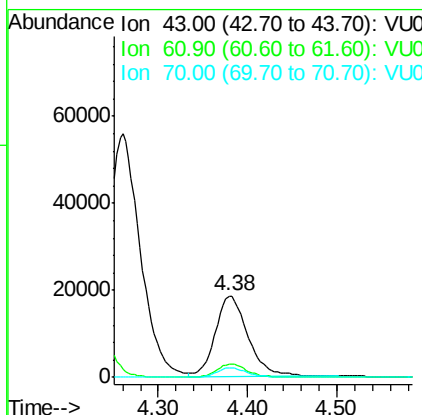
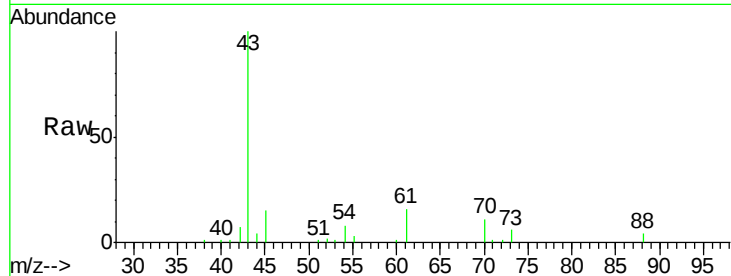
#37
Ethyl Acetate
Concen: 22.280 ug/l
RT: 4.38 min Scan# 997
Delta R.T. 0.00 min
Lab File: VU029177.D
Acq: 15 Jan 2019 11:53

Instrument :
MSVOA_U
ClientSampleId :
VU0115WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.4	12.6	18.8
70	10.9	9.3	13.9

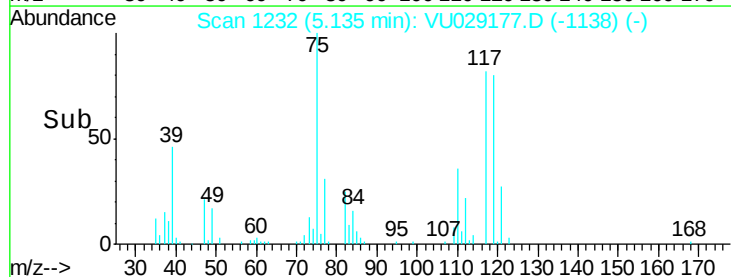
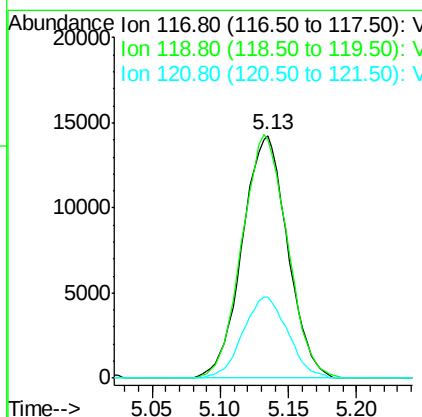
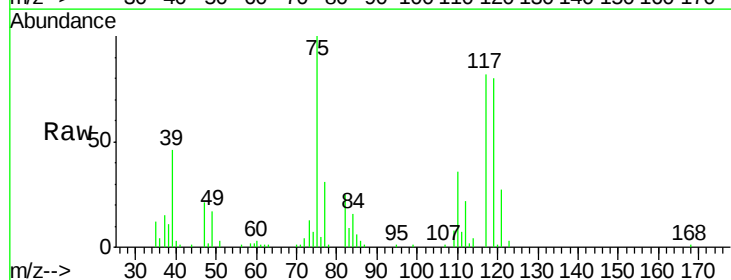
Manual Integrations
APPROVED

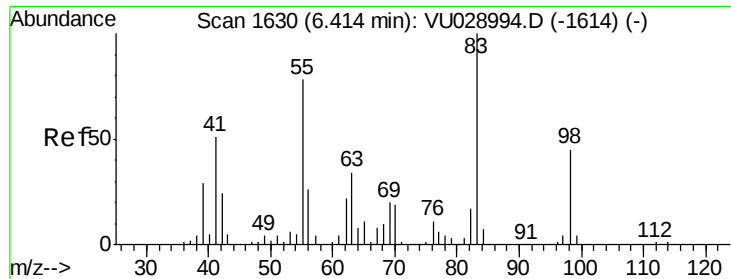
MMDadoda
1/16/2019 9:42:04 AM



#38
Carbon Tetrachloride
Concen: 20.530 ug/l
RT: 5.13 min Scan# 1232
Delta R.T. 0.00 min
Lab File: VU029177.D
Acq: 15 Jan 2019 11:53

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.5	74.6	111.8
121	33.4	25.0	37.6





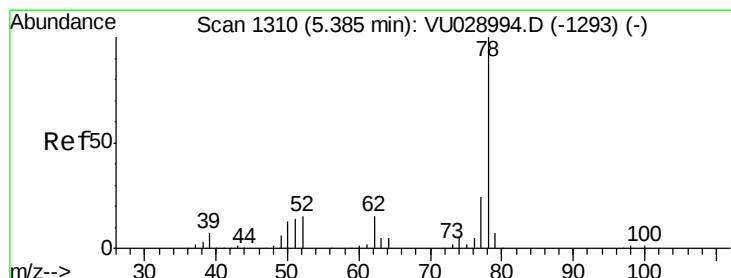
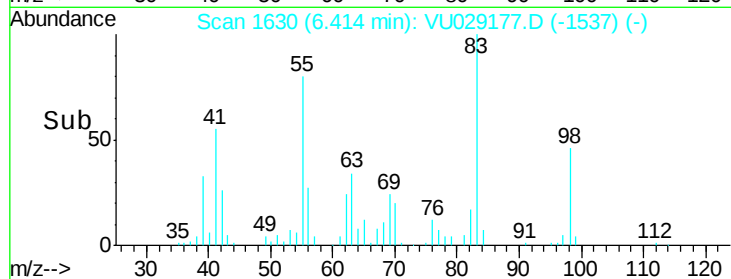
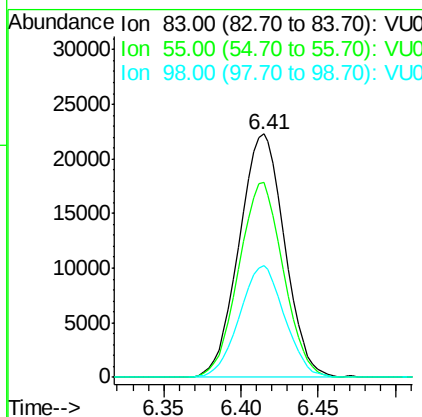
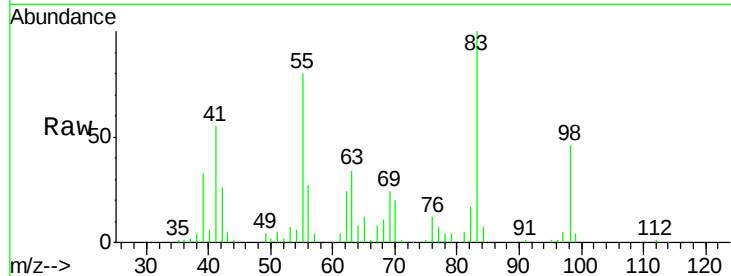
#39
Methvlcvclohexane
Concen: 19.337 ug/l
RT: 6.41 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VU029177.D
Acq: 15 Jan 2019 11:53

Instrument :
MSVOA_U
ClientSampleId :
VU0115WBSD01

Tot Ion	83	Resp	45515
Ion Ratio	100	Lower	Upper
83	100		
55	80.2	62.4	93.6
98	46.0	36.2	54.2

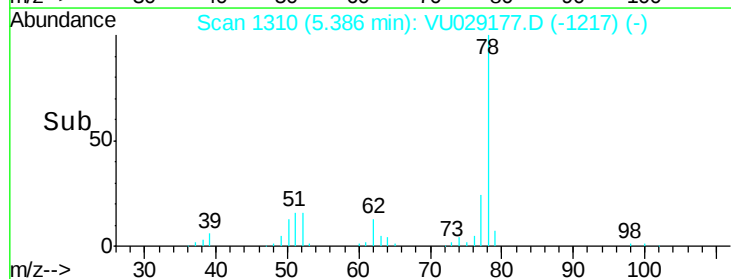
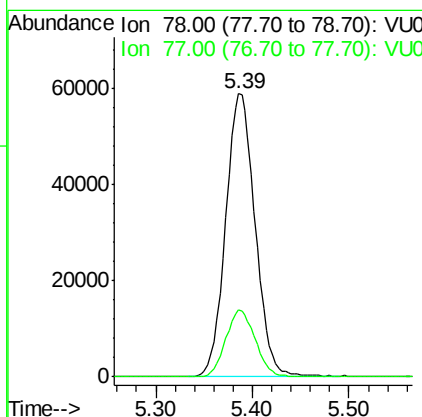
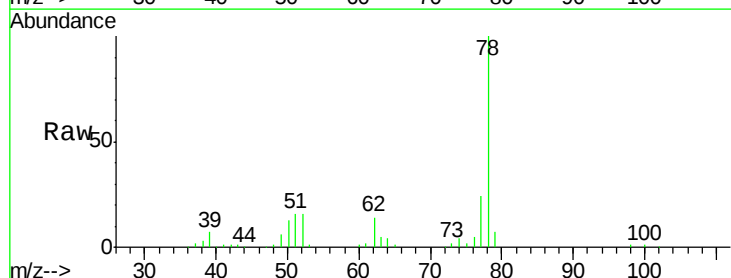
Manual Integrations
APPROVED

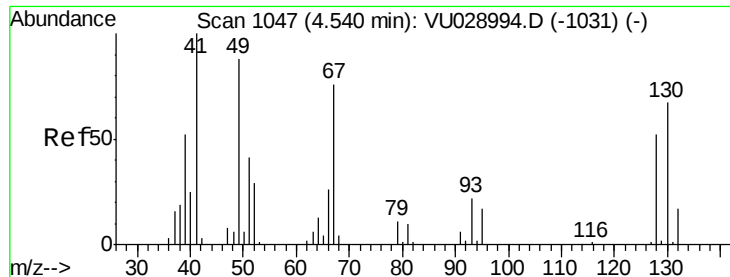
MMDadoda
1/16/2019 9:42:04 AM



#40
Benzene
Concen: 20.865 ug/l
RT: 5.39 min Scan# 1310
Delta R.T. 0.00 min
Lab File: VU029177.D
Acq: 15 Jan 2019 11:53

Tgt Ion	78	Resp	124610
Ion Ratio	100	Lower	Upper
78	100		
77	23.6	18.9	28.3





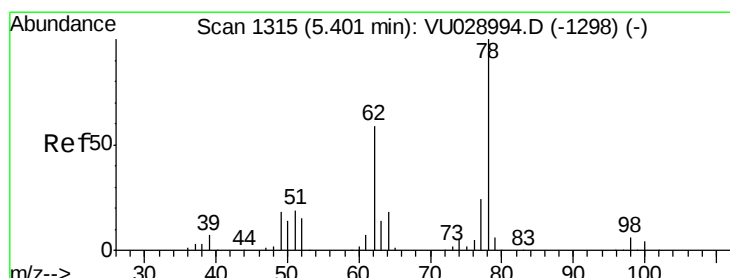
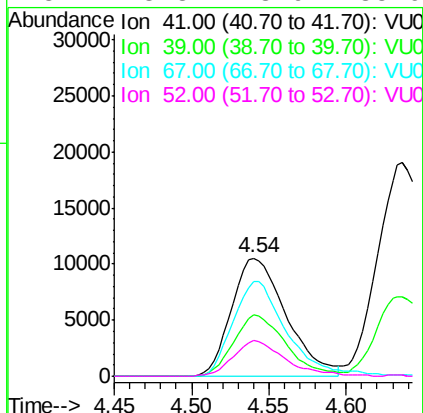
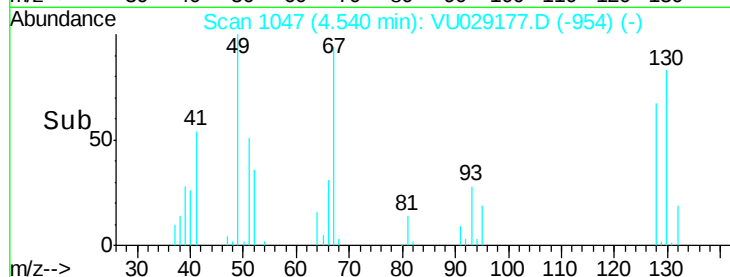
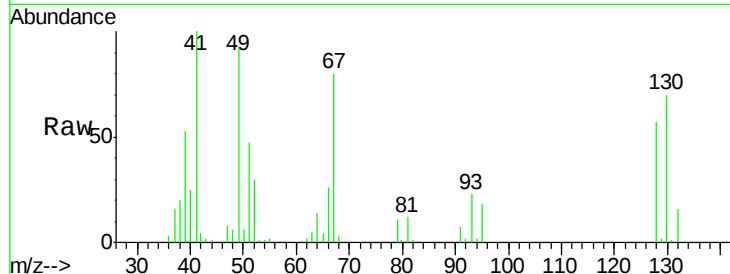
#41
Methacrylonitrile
Concen: 23.033 ug/l
RT: 4.54 min Scan# 1047
Delta R.T. 0.00 min
Lab File: VU029177.D
Acq: 15 Jan 2019 11:53

Instrument :
MSVOA_U
ClientSampleId :
VU0115WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		25911		
39	49.8	42.3	63.5		
67	78.7	64.4	96.6		
52	28.8	23.9	35.9		

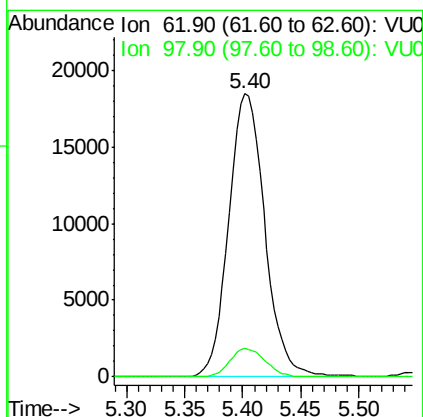
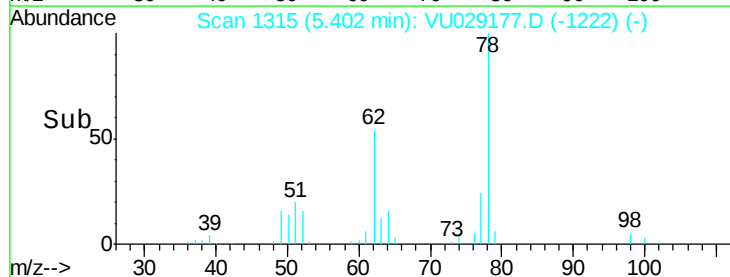
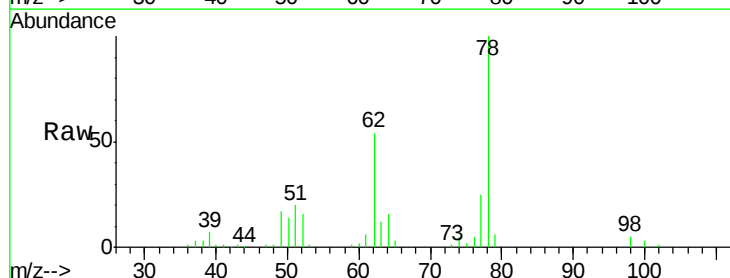
Manual Integrations
APPROVED

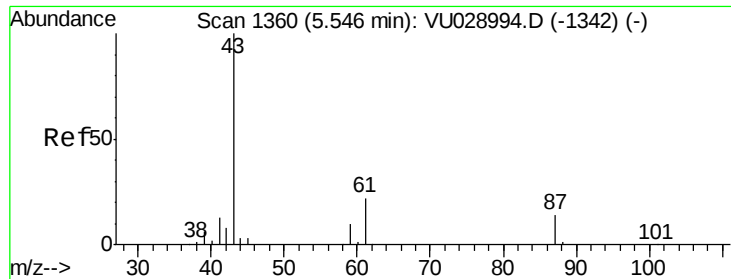
MMDadoda
1/16/2019 9:42:04 AM



#42
1,2-Dichloroethane
Concen: 22.215 ug/l
RT: 5.40 min Scan# 1315
Delta R.T. 0.00 min
Lab File: VU029177.D
Acq: 15 Jan 2019 11:53

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		39866		
98	9.7	0.0	19.6		





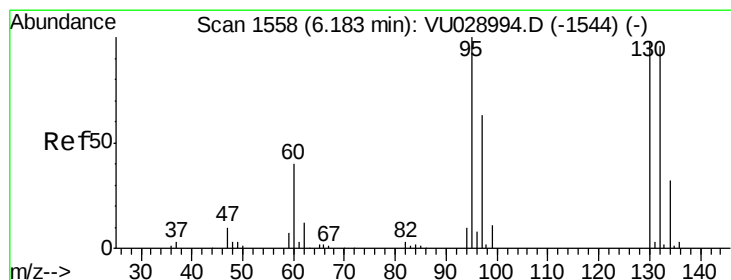
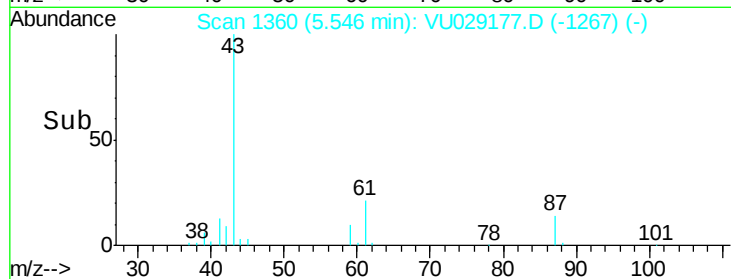
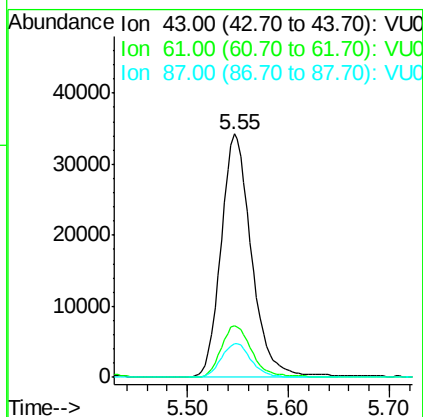
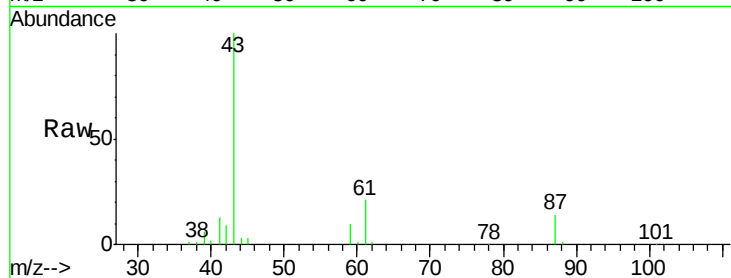
#43
Isopropyl Acetate
Concen: 22.402 ug/l
RT: 5.55 min Scan# 1360
Delta R.T. 0.00 min
Lab File: VU029177.D
Acq: 15 Jan 2019 11:53

Instrument :
MSVOA_U
ClientSampleId :
VU0115WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	21.5	17.8	26.6
87	13.6	11.3	16.9

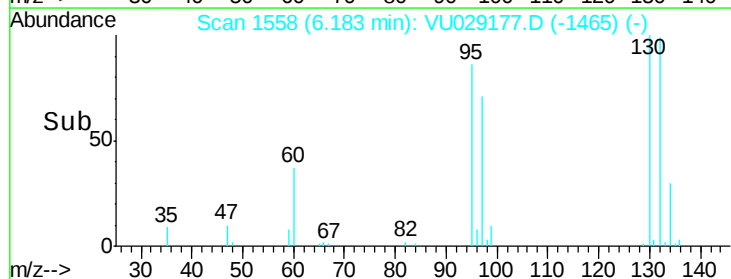
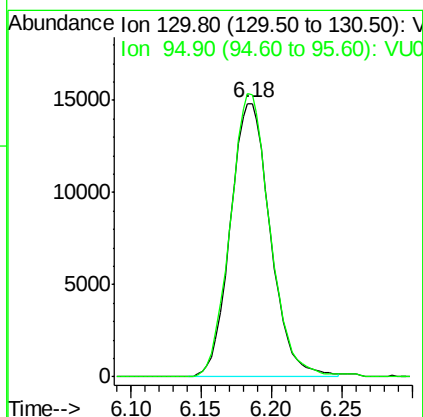
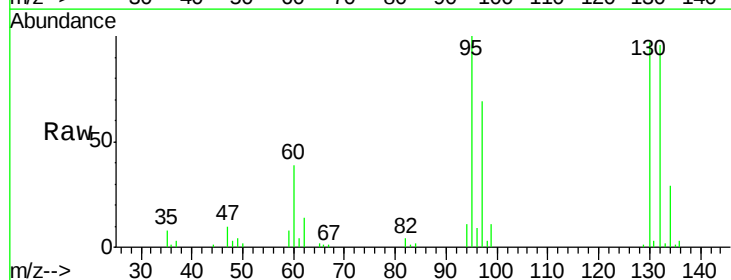
Manual Integrations
APPROVED

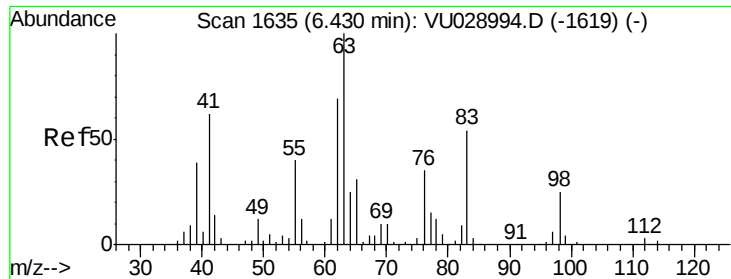
MMDadoda
1/16/2019 9:42:04 AM



#44
Trichloroethene
Concen: 19.955 ug/l
RT: 6.18 min Scan# 1558
Delta R.T. 0.00 min
Lab File: VU029177.D
Acq: 15 Jan 2019 11:53

Tgt Ion	Ratio	Lower	Upper
130	100		
95	103.5	0.0	205.0





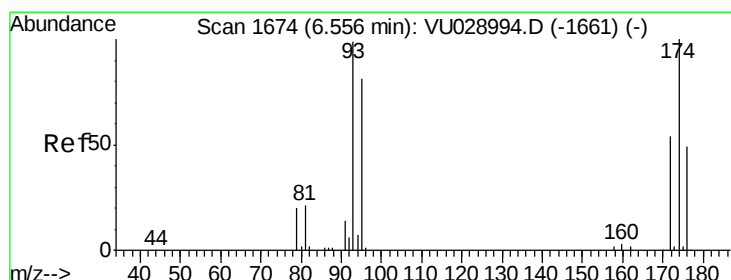
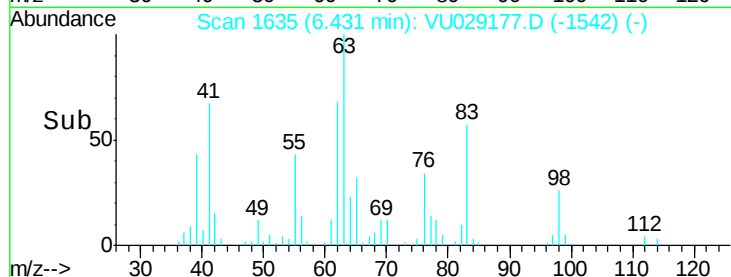
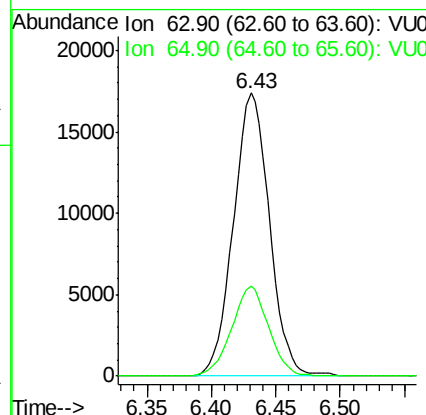
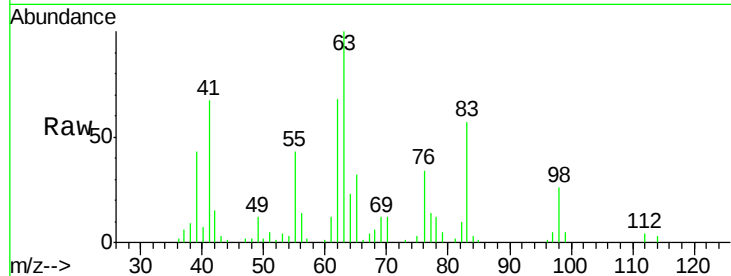
#45
 1,2-Dichloropropane
 Concen: 21.410 ug/l
 RT: 6.43 min Scan# 1635
 Delta R.T. 0.00 min
 Lab File: VU029177.D
 Acq: 15 Jan 2019 11:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0115WBSD01

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.7	25.1	37.7

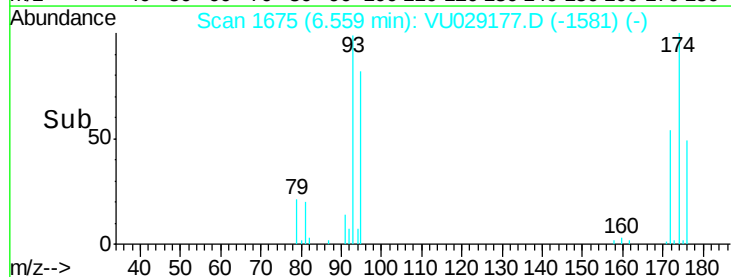
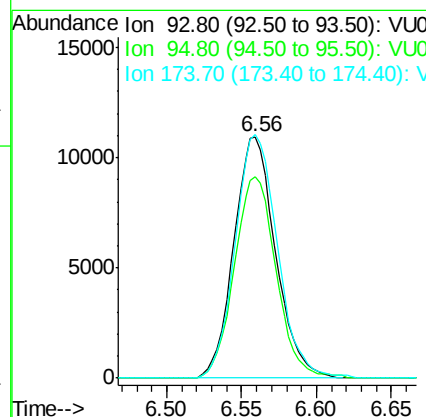
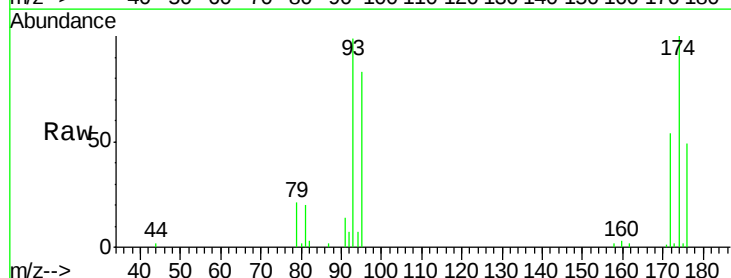
Manual Integrations
 APPROVED

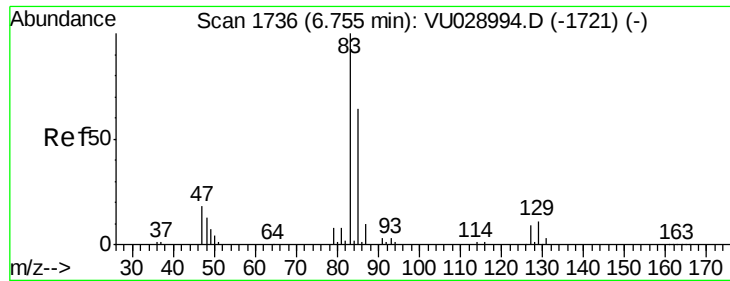
MMDadoda
 1/16/2019 9:42:04 AM



#46
 Dibromomethane
 Concen: 21.098 ug/l
 RT: 6.56 min Scan# 1675
 Delta R.T. 0.00 min
 Lab File: VU029177.D
 Acq: 15 Jan 2019 11:53

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.6	67.2	100.8
174	102.2	82.6	123.8





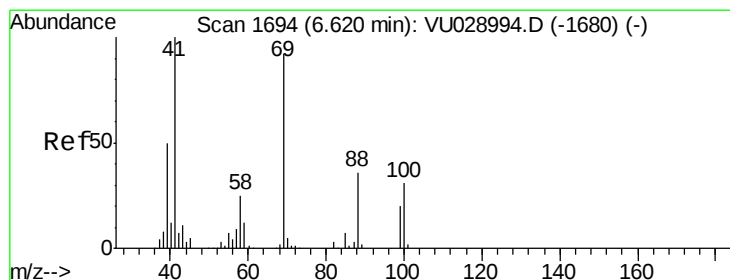
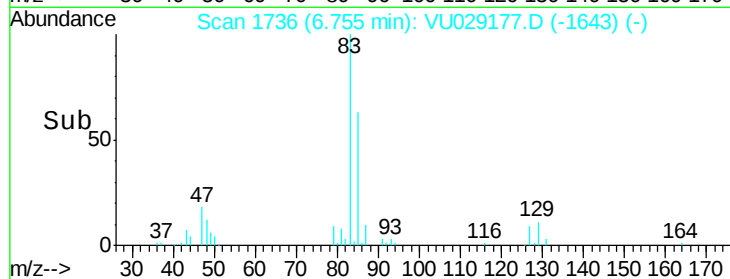
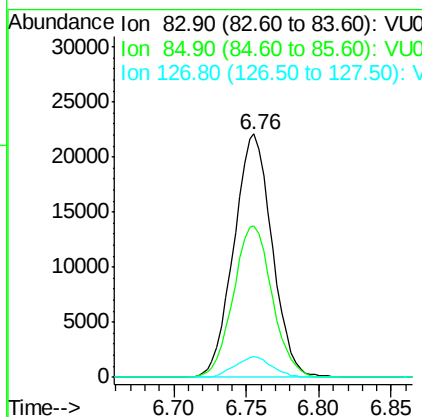
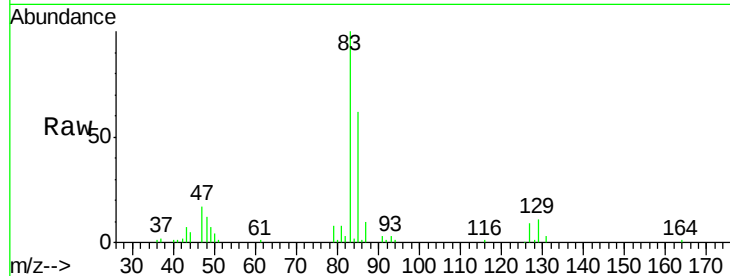
#47
 Bromodichloromethane
 Concen: 21.803 ug/l
 RT: 6.76 min Scan# 1736
 Delta R.T. 0.00 min
 Lab File: VU029177.D
 Acq: 15 Jan 2019 11:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0115WBSD01

Tot Ion	83	Resp	40472
Ion Ratio	100	Lower	Upper
83	100		
85	62.3	51.4	77.2
127	8.5	7.0	10.4

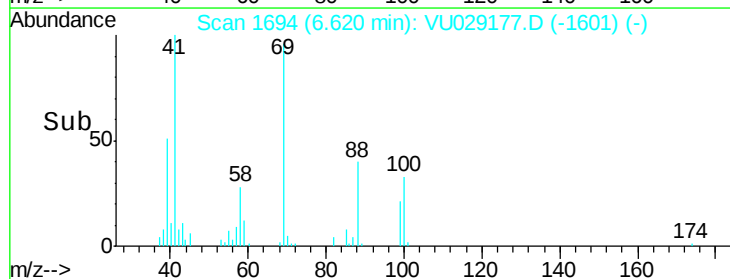
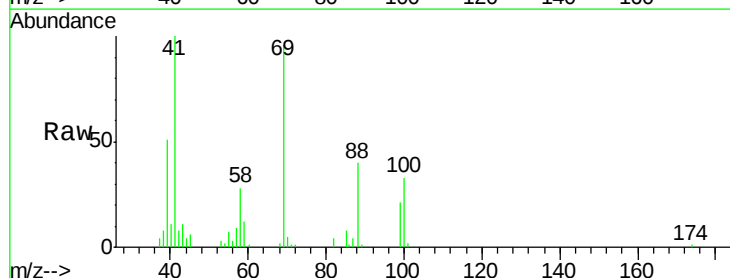
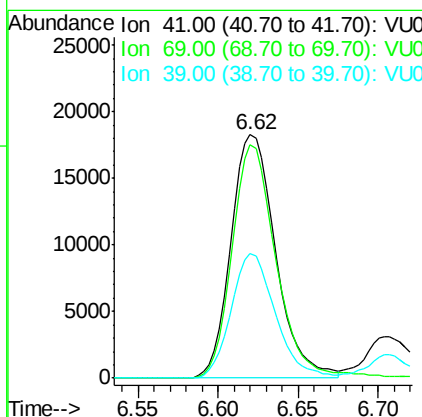
Manual Integrations
 APPROVED

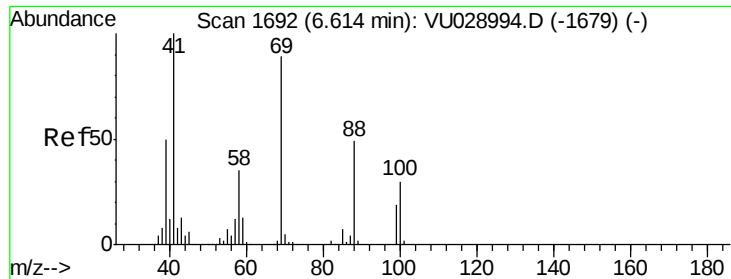
MMDadoda
 1/16/2019 9:42:04 AM



#48
 Methyl methacrylate
 Concen: 22.239 ug/l
 RT: 6.62 min Scan# 1694
 Delta R.T. 0.00 min
 Lab File: VU029177.D
 Acq: 15 Jan 2019 11:53

Tgt Ion	41	Resp	34910
Ion Ratio	100	Lower	Upper
41	100		
69	94.5	73.6	110.4
39	50.4	39.6	59.4





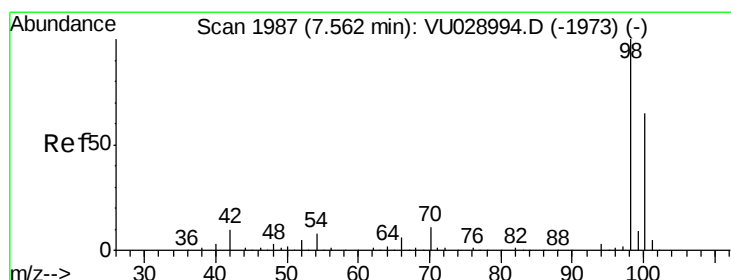
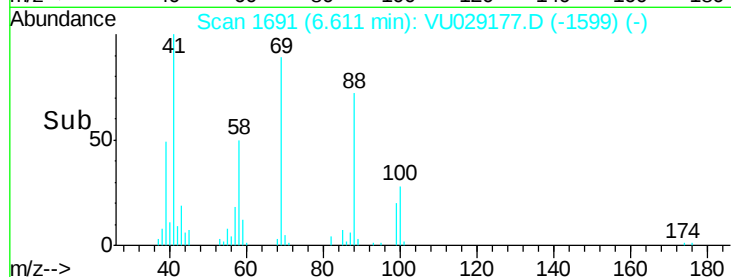
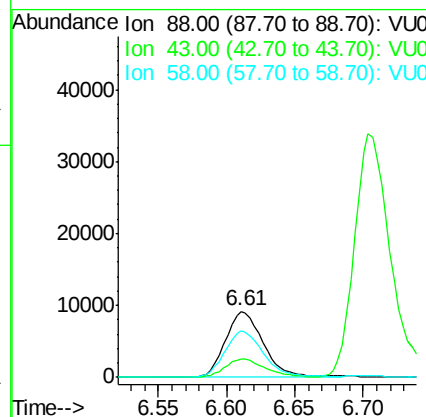
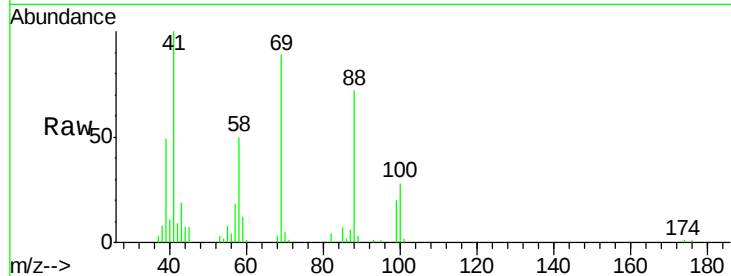
#49
1,4-Dioxane
Concen: 479.672 ug/l
RT: 6.61 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VU029177.D
Acq: 15 Jan 2019 11:53

Instrument :
MSVOA_U
ClientSampleId :
VU0115WBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	29.5	23.0	34.4
58	71.6	57.9	86.9

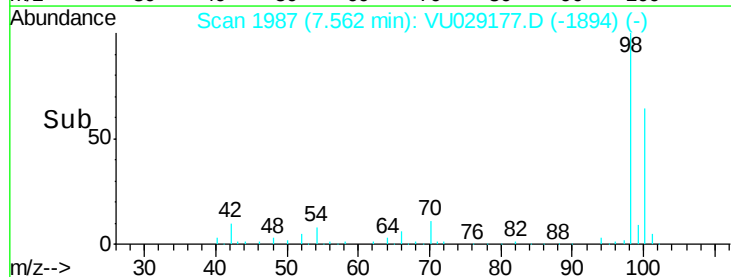
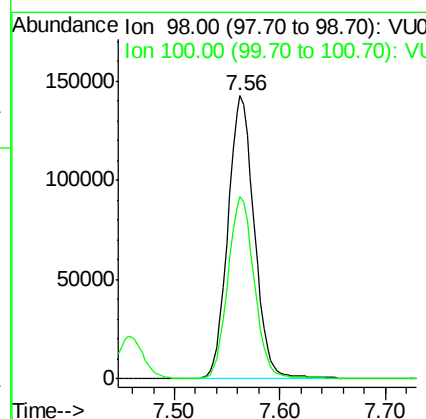
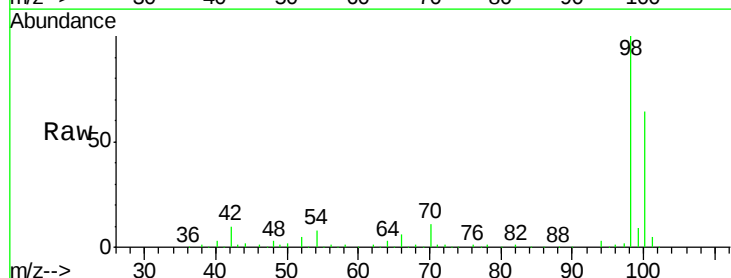
Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:42:04 AM



#50
Toluene-d8
Concen: 50.477 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VU029177.D
Acq: 15 Jan 2019 11:53

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.0	51.6	77.4





#51

4-Methyl-2-Pentanone

Concen: 111.901 ug/l

RT: 7.46 min Scan# 1954

Delta R.T. -0.00 min

Lab File: VU029177.D

Acq: 15 Jan 2019 11:53

Instrument :

MSVOA_U

ClientSampleId :

VU0115WBSD01

Tot Ion: 43 Resp: 245507

Ion Ratio Lower Upper

43 100

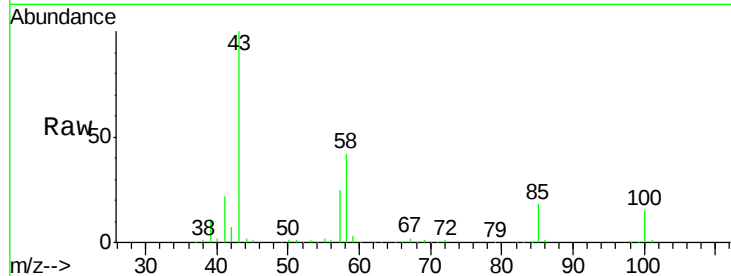
58 41.9 33.9 50.9

Manual Integrations

APPROVED

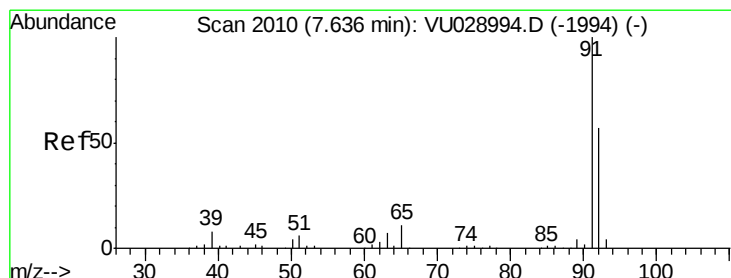
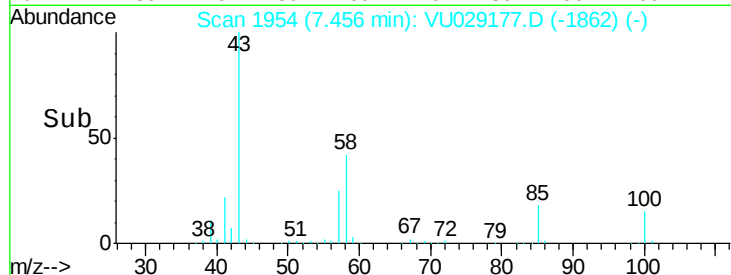
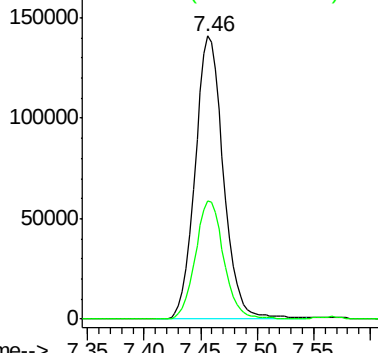
MMDadoda

1/16/2019 9:42:04 AM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#52

Toluene

Concen: 20.826 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. 0.00 min

Lab File: VU029177.D

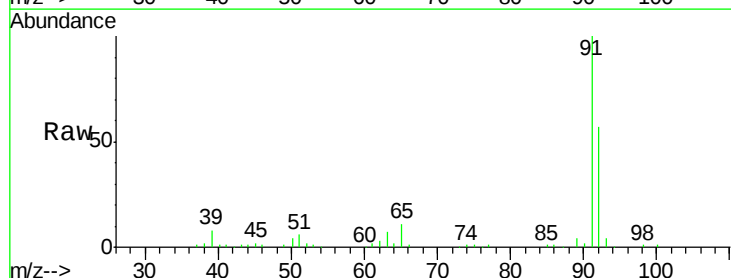
Acq: 15 Jan 2019 11:53

Tgt Ion: 92 Resp: 75717

Ion Ratio Lower Upper

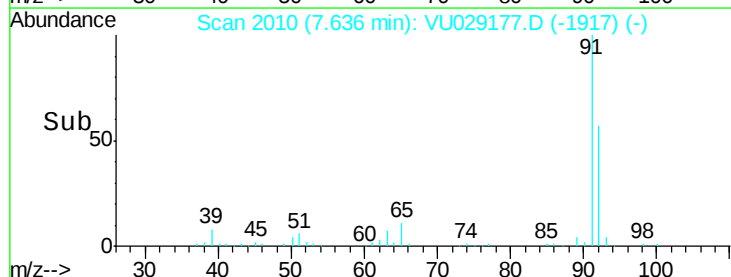
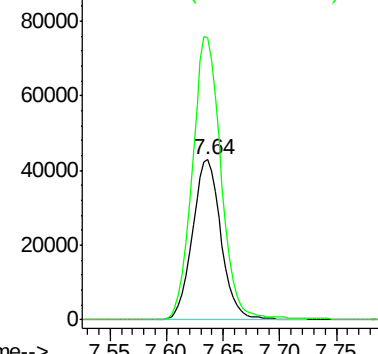
92 100

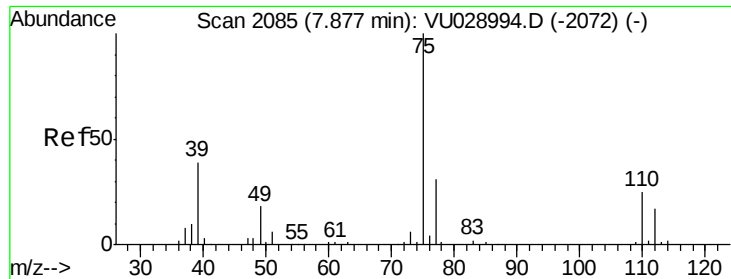
91 176.8 139.8 209.8



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0





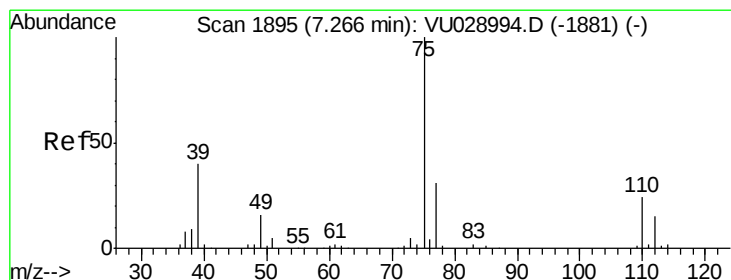
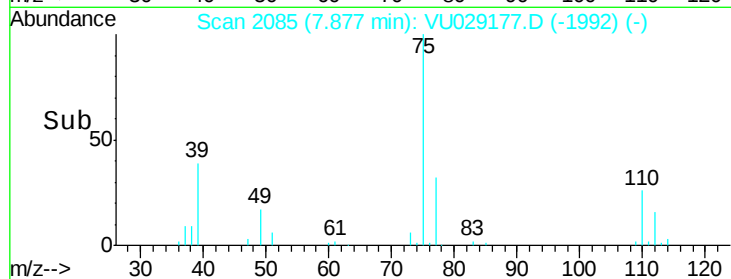
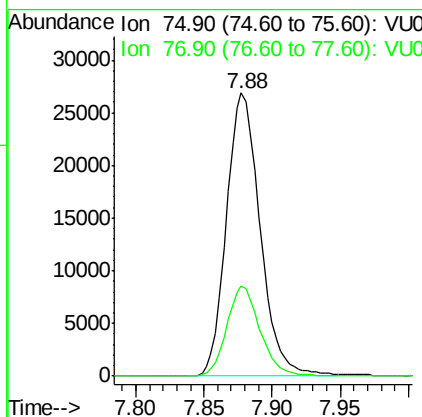
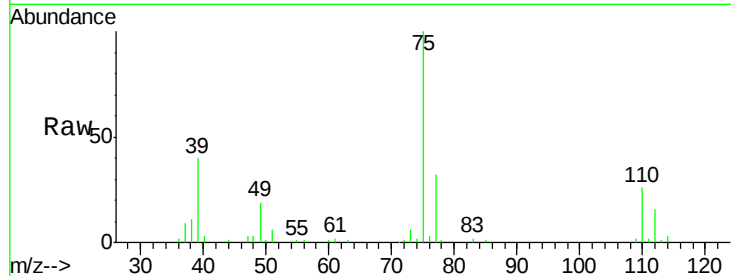
#53
t-1,3-Dichloropropene
Concen: 20.733 ug/l
RT: 7.88 min Scan# 2085
Delta R.T. 0.00 min
Lab File: VU029177.D
Acq: 15 Jan 2019 11:53

Instrument :
MSVOA_U
ClientSampleId :
VU0115WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.0	37.4

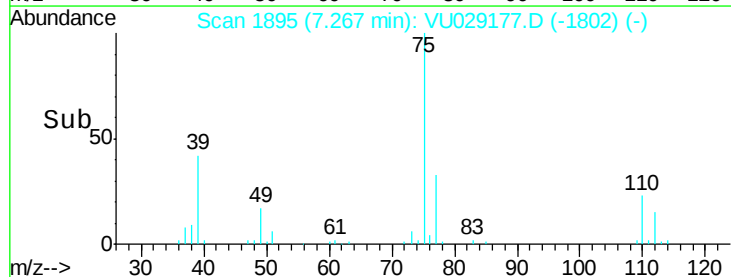
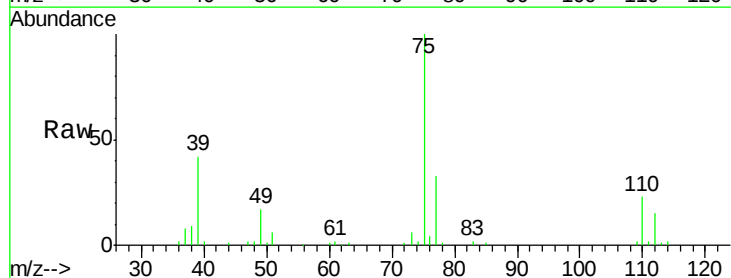
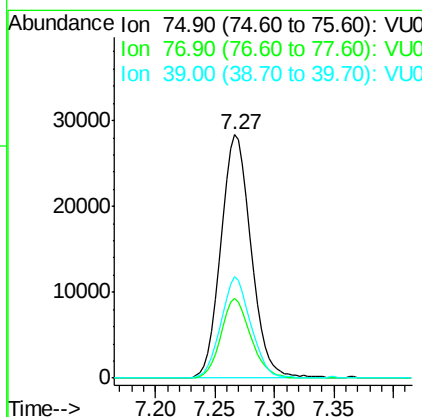
Manual Integrations
APPROVED

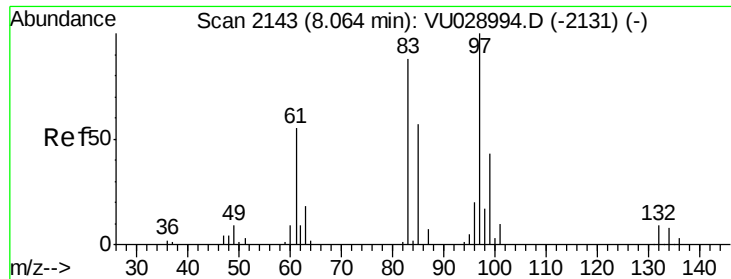
MMDadoda
1/16/2019 9:42:04 AM



#54
cis-1,3-Dichloropropene
Concen: 20.781 ug/l
RT: 7.27 min Scan# 1895
Delta R.T. 0.00 min
Lab File: VU029177.D
Acq: 15 Jan 2019 11:53

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.9	25.0	37.6
39	41.6	32.2	48.4





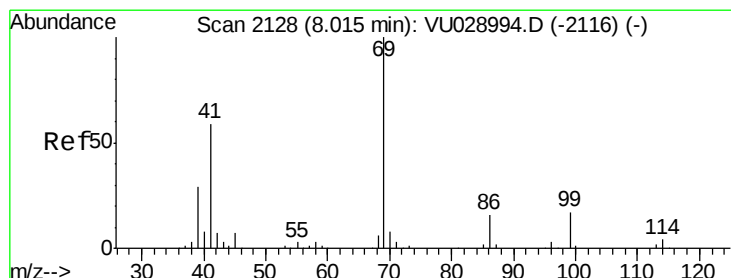
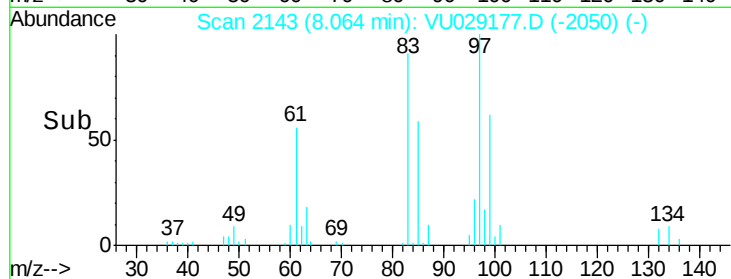
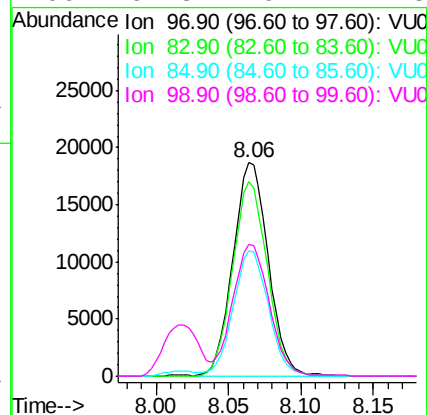
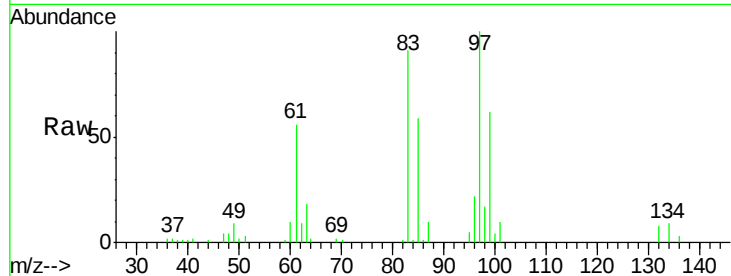
#55
 1,1,2-Trichloroethane
 Concen: 21.784 ug/l
 RT: 8.06 min Scan# 2143
 Delta R.T. 0.00 min
 Lab File: VU029177.D
 Acq: 15 Jan 2019 11:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0115WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		31728		
83	91.3	69.8	104.8		
85	58.9	47.3	70.9		
99	61.3	49.7	74.5		

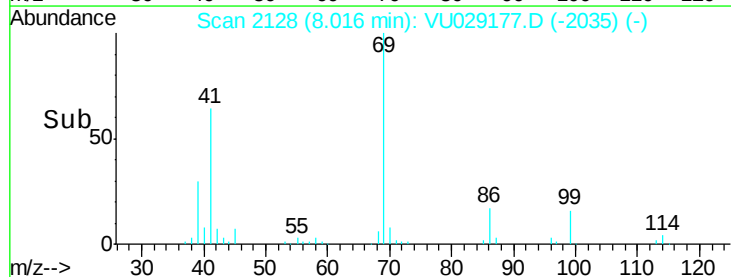
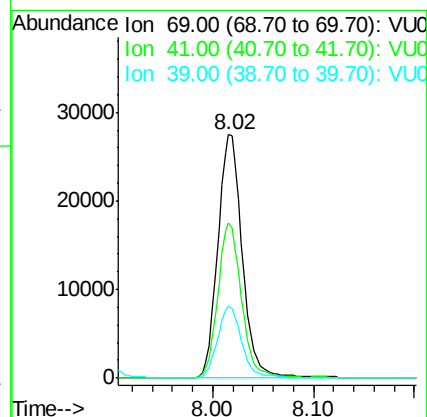
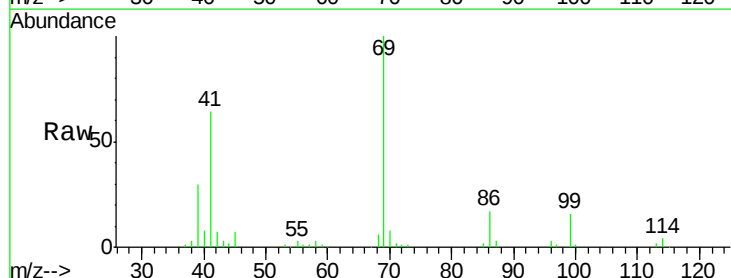
Manual Integrations
 APPROVED

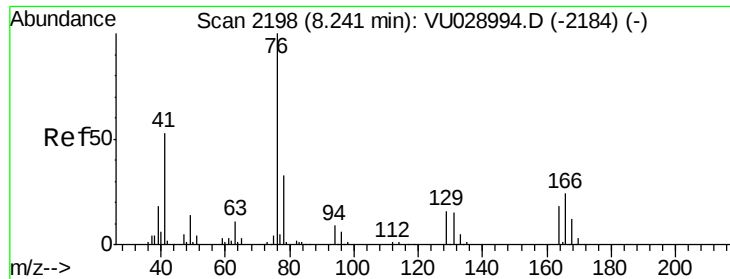
MMDadoda
 1/16/2019 9:42:04 AM



#56
 Ethyl methacrylate
 Concen: 20.675 ug/l
 RT: 8.02 min Scan# 2128
 Delta R.T. 0.00 min
 Lab File: VU029177.D
 Acq: 15 Jan 2019 11:53

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		46393		
41	61.5	47.5	71.3		
39	29.2	22.5	33.7		





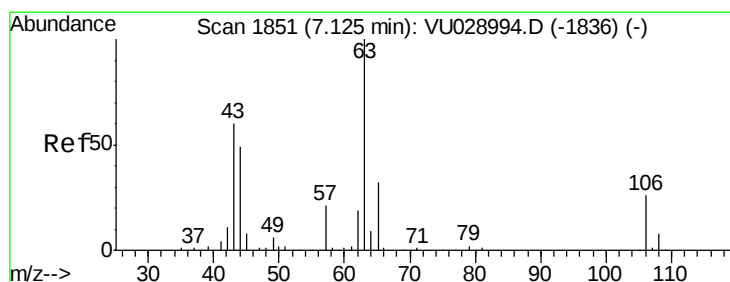
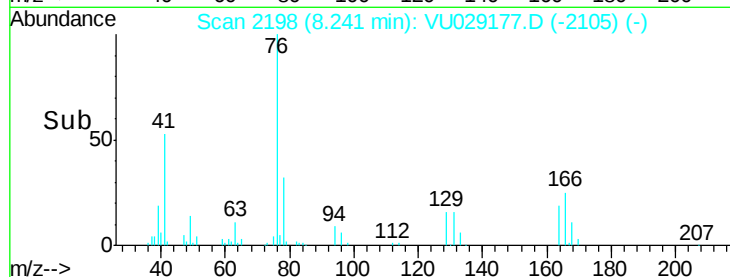
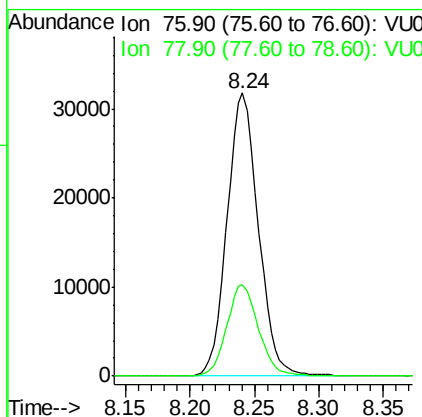
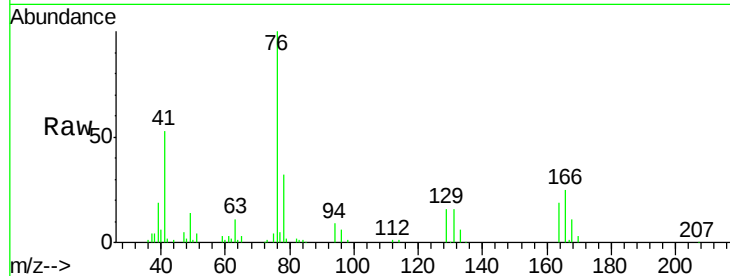
#57
 1,3-Dichloropropane
 Concen: 21.492 ug/l
 RT: 8.24 min Scan# 2198
 Delta R.T. 0.00 min
 Lab File: VU029177.D
 Acq: 15 Jan 2019 11:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0115WBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.6	26.0	39.0

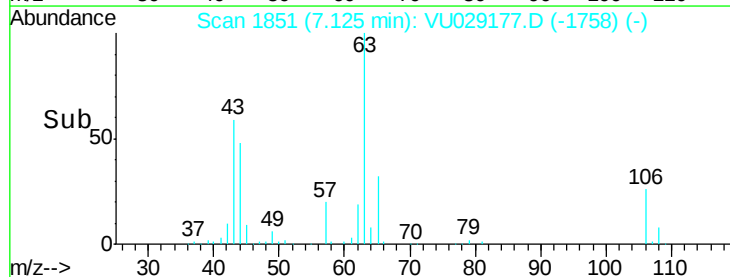
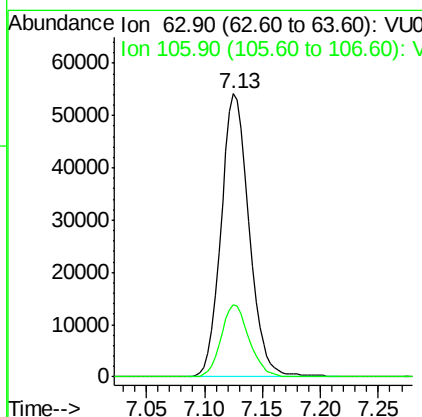
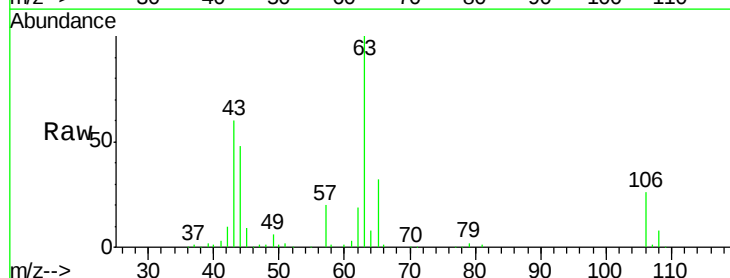
Manual Integrations
 APPROVED

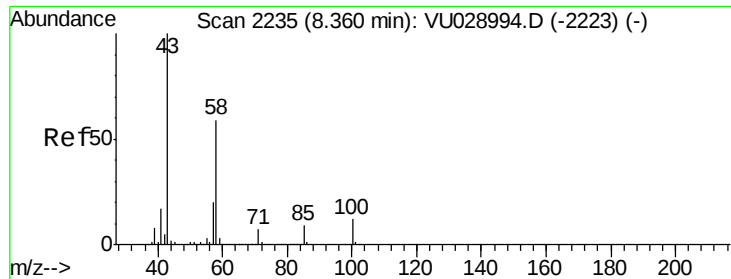
MMDadoda
 1/16/2019 9:42:04 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 92.552 ug/l
 RT: 7.13 min Scan# 1851
 Delta R.T. 0.00 min
 Lab File: VU029177.D
 Acq: 15 Jan 2019 11:53

Tgt Ion	Ratio	Lower	Upper
63	100		
106	25.5	20.6	31.0





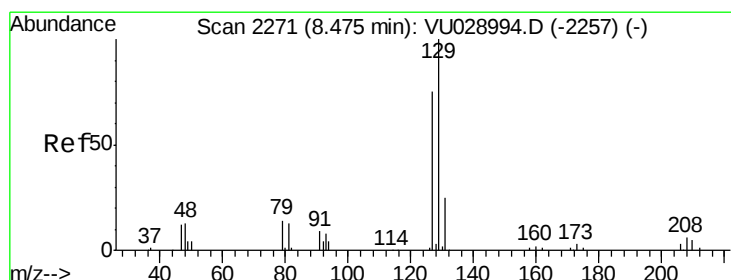
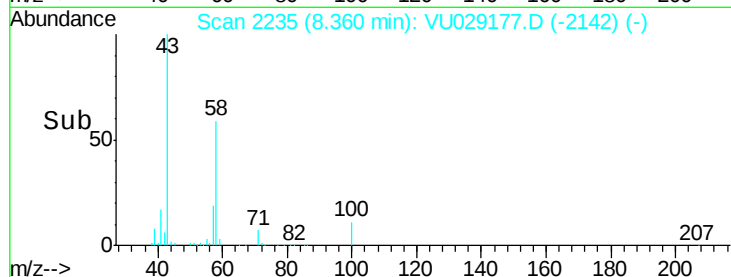
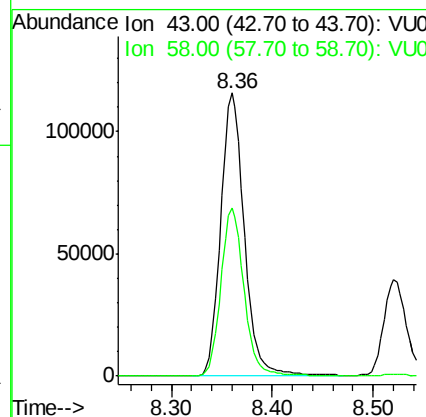
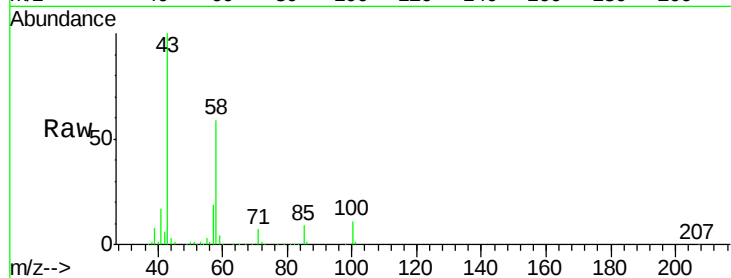
#59
2-Hexanone
Concen: 110.320 ug/l
RT: 8.36 min Scan# 2235
Delta R.T. 0.00 min
Lab File: VU029177.D
Acq: 15 Jan 2019 11:53

Instrument :
MSVOA_U
ClientSampleId :
VU0115WBSD01

Tot Ion	43	Resp	189991
Ion Ratio	43	100	
Lower	58	58.3	29.8
Upper			89.4

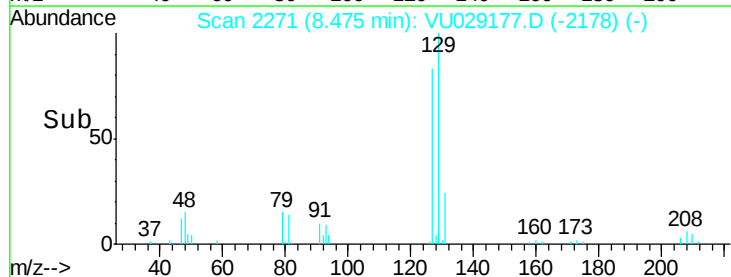
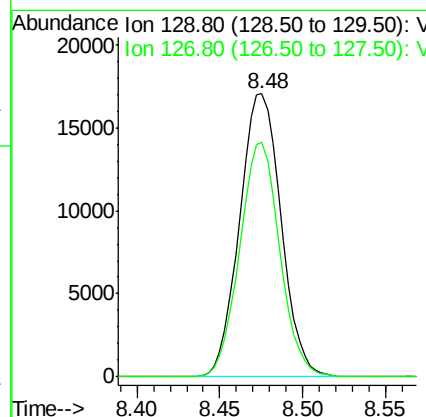
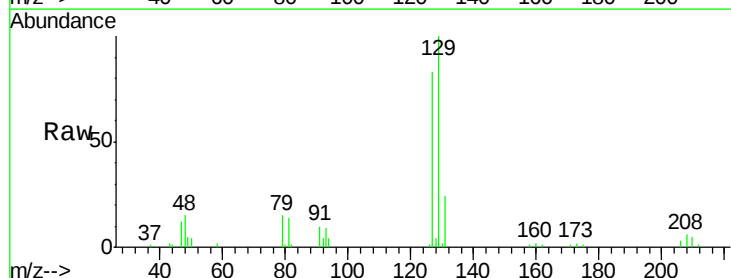
Manual Integrations
APPROVED

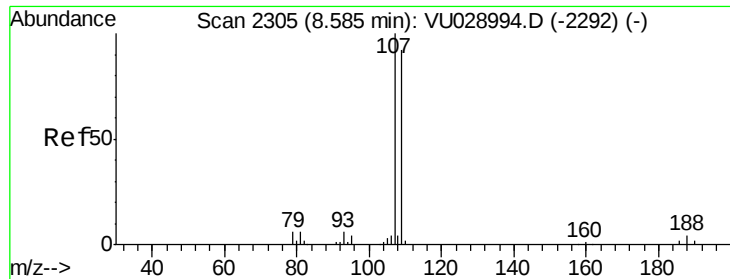
MMDadoda
1/16/2019 9:42:04 AM



#60
Dibromochloromethane
Concen: 20.610 ug/l
RT: 8.48 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VU029177.D
Acq: 15 Jan 2019 11:53

Tgt Ion	129	Resp	29740
Ion Ratio	129	100	
Lower	127	79.7	38.0
Upper			114.0





#61

1,2-Dibromoethane

Concen: 20.844 ug/l

RT: 8.58 min Scan# 2305

Delta R.T. 0.00 min

Lab File: VU029177.D

Acq: 15 Jan 2019 11:53

Instrument :

MSVOA_U

ClientSampleId :

VU0115WBSD01

Tot Ion:107 Resp: 32926

Ion Ratio Lower Upper

107 100

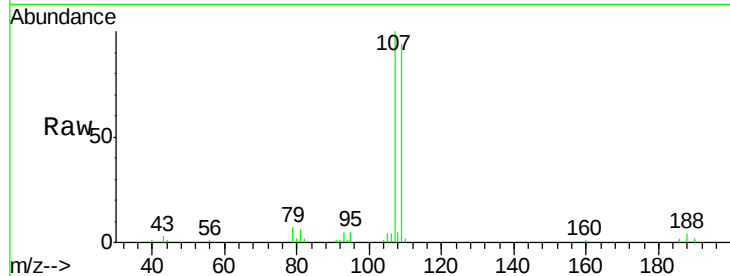
109 97.1 75.5 113.3

Manual Integrations

APPROVED

MMDadoda

1/16/2019 9:42:04 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

8.58

20000

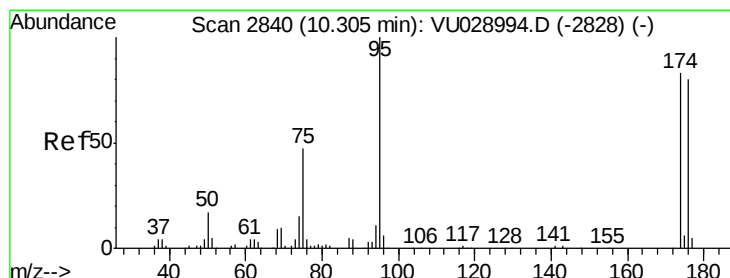
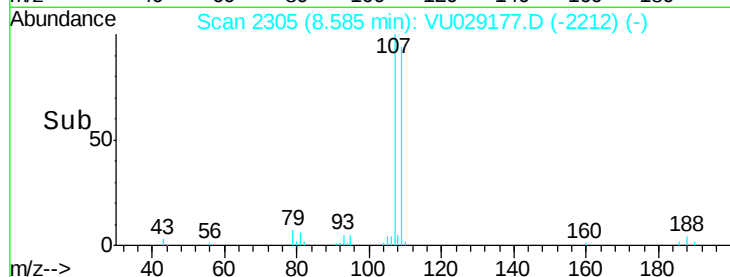
15000

10000

5000

0

Time--> 8.50 8.55 8.60 8.65



#62

4-Bromofluorobenzene

Concen: 49.213 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. 0.00 min

Lab File: VU029177.D

Acq: 15 Jan 2019 11:53

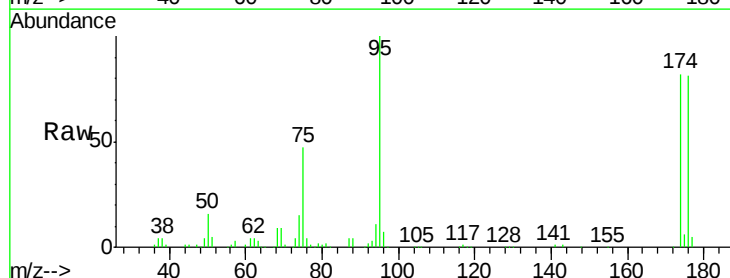
Tgt Ion: 95 Resp: 86696

Ion Ratio Lower Upper

95 100

174 83.8 0.0 170.6

176 80.9 0.0 165.0



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

10.30

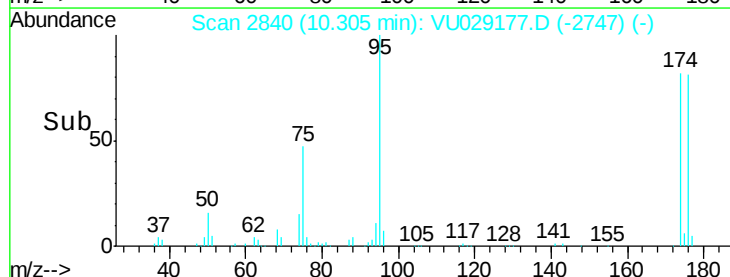
60000

40000

20000

0

Time--> 10.25 10.30 10.35 10.40





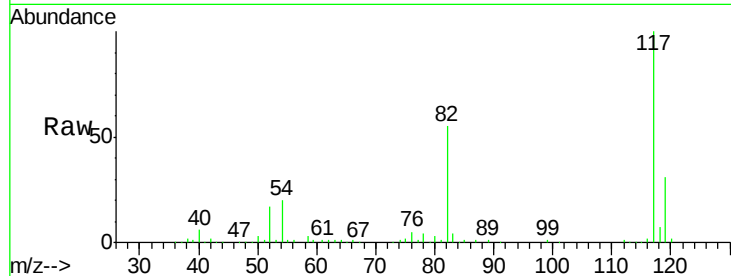
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2461
Delta R.T. 0.00 min
Lab File: VU029177.D
Acq: 15 Jan 2019 11:53

Instrument :
MSVOA_U
ClientSampleId :
VU0115WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.2	43.9	65.9
119	31.3	26.0	39.0

Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:42:04 AM

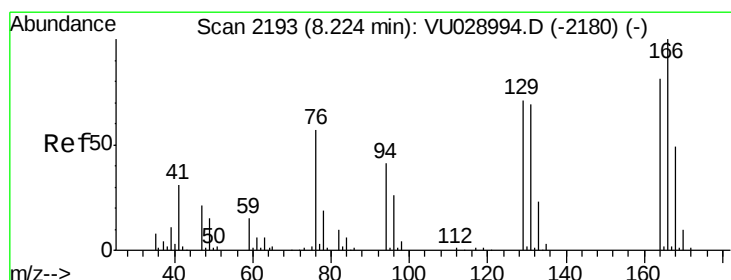
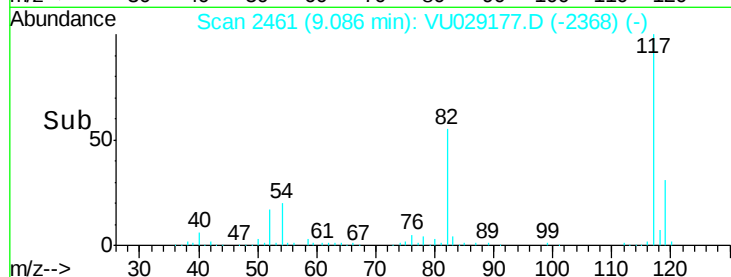
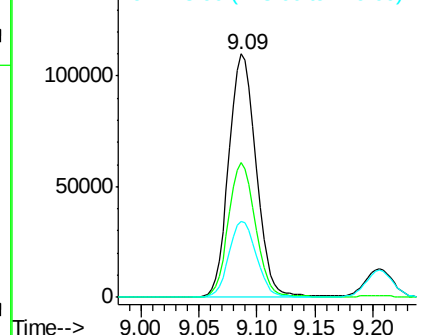


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 20.822 ug/l
RT: 8.22 min Scan# 2193
Delta R.T. 0.00 min
Lab File: VU029177.D
Acq: 15 Jan 2019 11:53

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.1	99.4	149.0
129	95.4	70.5	105.7
131	93.0	69.0	103.6

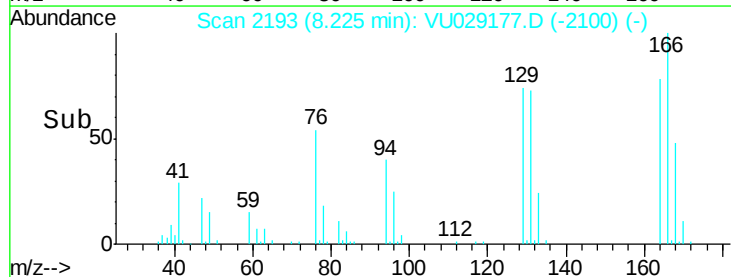
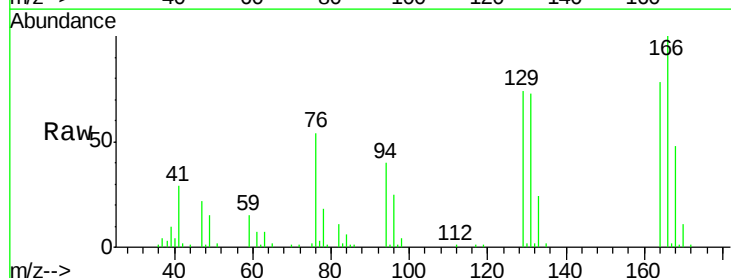
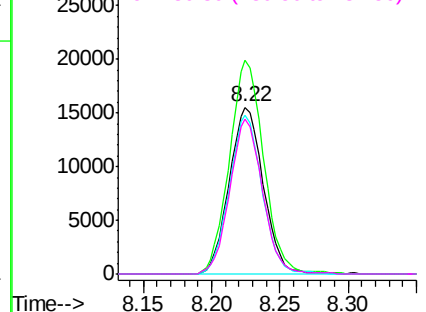
Abundance

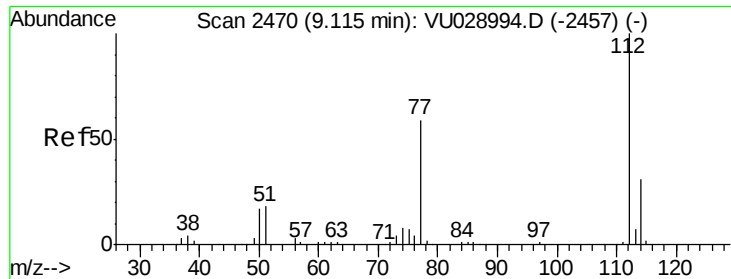
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 20.339 ug/l

RT: 9.12 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VU029177.D

Acq: 15 Jan 2019 11:53

Instrument :

MSVOA_U

ClientSampleId :

VU0115WBSD01

Tot Ion:112 Resp: 82087

Ion Ratio Lower Upper

112 100

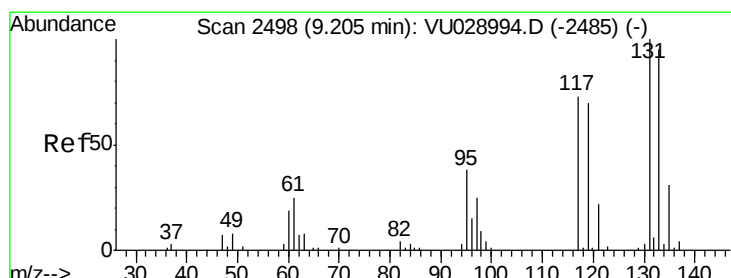
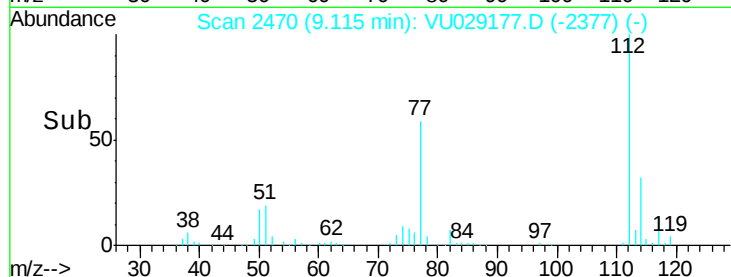
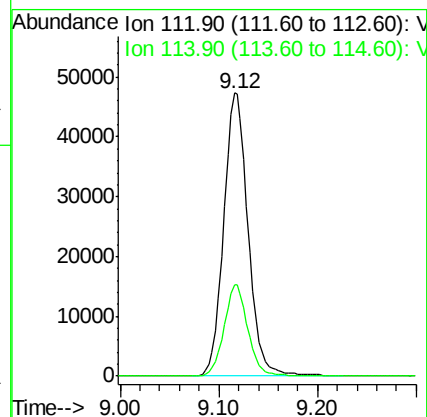
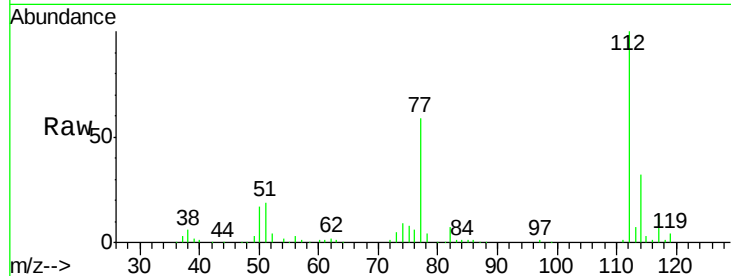
114 32.2 25.0 37.6

Manual Integrations

APPROVED

MMDadoda

1/16/2019 9:42:04 AM



#66

1,1,1,2-Tetrachloroethane

Concen: 21.306 ug/l

RT: 9.21 min Scan# 2498

Delta R.T. 0.00 min

Lab File: VU029177.D

Acq: 15 Jan 2019 11:53

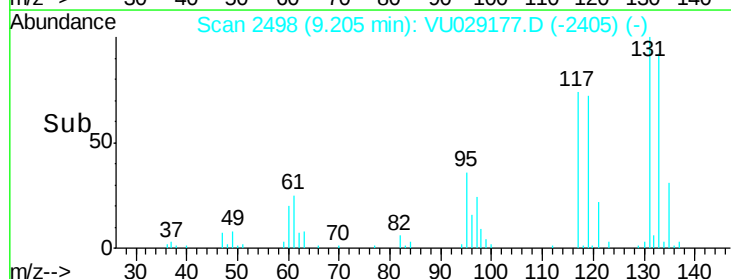
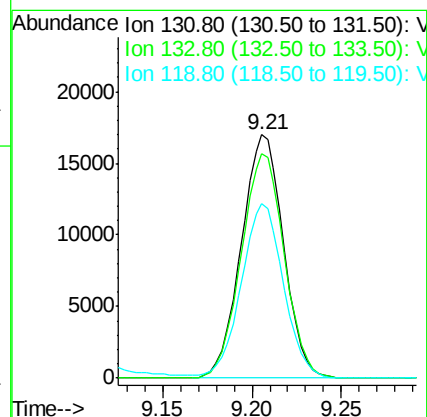
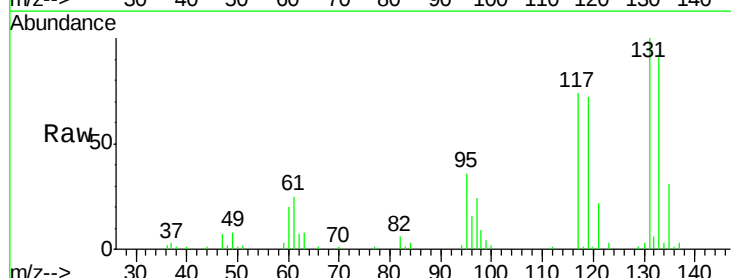
Tgt Ion:131 Resp: 27905

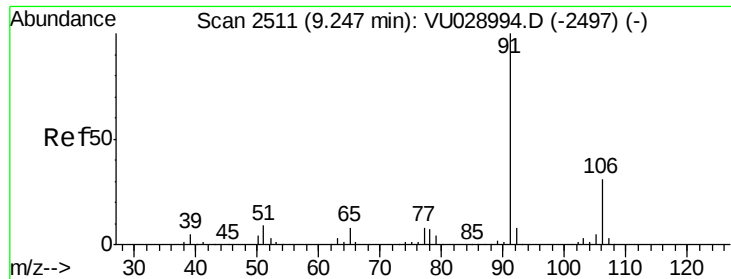
Ion Ratio Lower Upper

131 100

133 94.1 48.2 144.6

119 71.6 35.4 106.3





#67

Ethyl Benzene

Concen: 20.542 ug/l

RT: 9.25 min Scan# 2511

Delta R.T. 0.00 min

Lab File: VU029177.D

Acq: 15 Jan 2019 11:53

Instrument :

MSVOA_U

ClientSampleId :

VU0115WBSD01

Tot Ion: 91 Resp: 138417

Ion Ratio Lower Upper

91 100

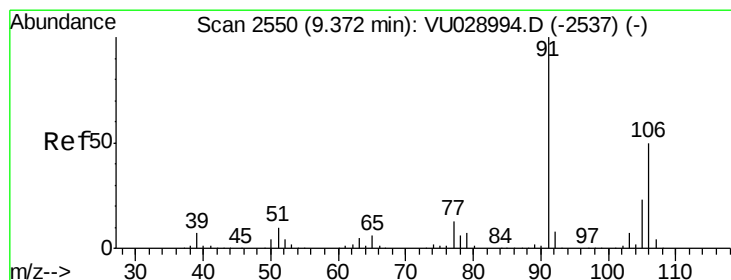
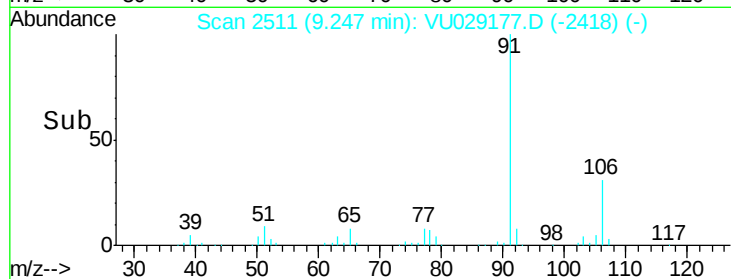
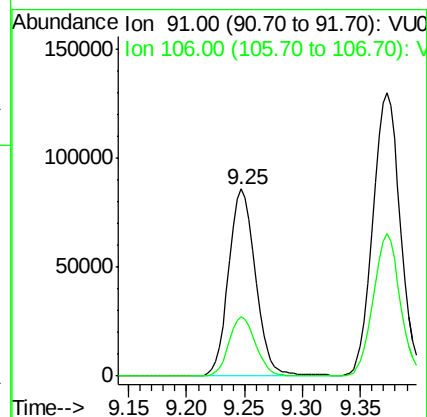
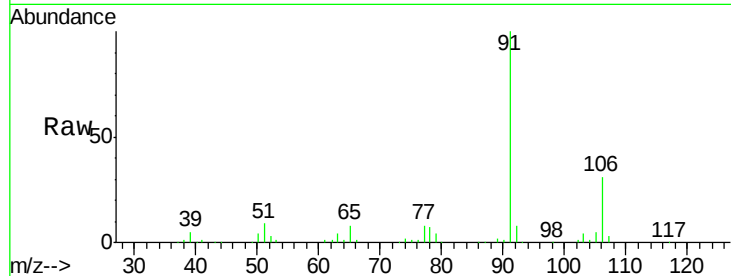
106 31.5 25.0 37.4

Manual Integrations

APPROVED

MMDadoda

1/16/2019 9:42:04 AM



#68

m/p-Xylenes

Concen: 40.302 ug/l

RT: 9.37 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VU029177.D

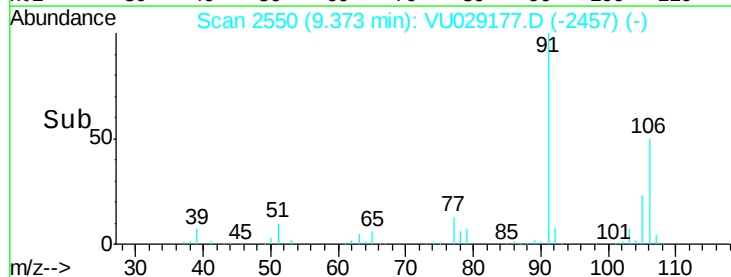
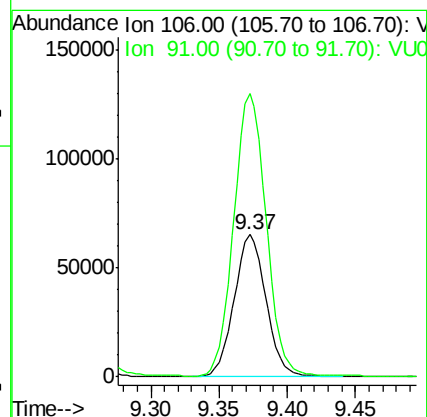
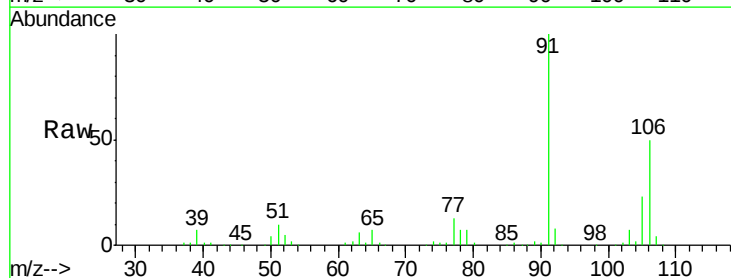
Acq: 15 Jan 2019 11:53

Tgt Ion: 106 Resp: 105515

Ion Ratio Lower Upper

106 100

91 204.9 161.7 242.5





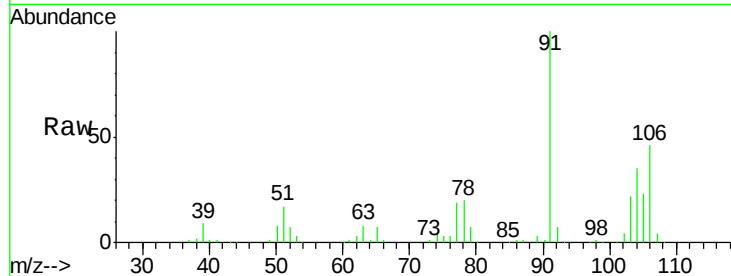
#69
o-Xylene
Concen: 20.723 ug/l
RT: 9.78 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VU029177.D
Acq: 15 Jan 2019 11:53

Instrument :
MSVOA_U
ClientSampleId :
VU0115WBSD01

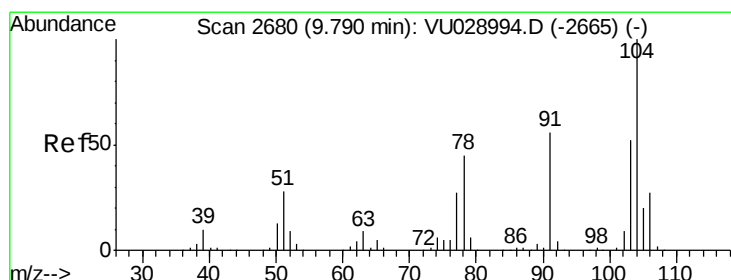
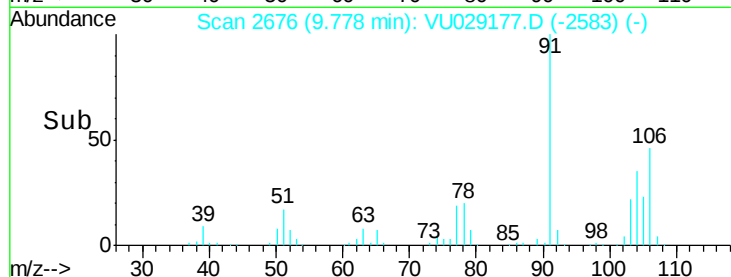
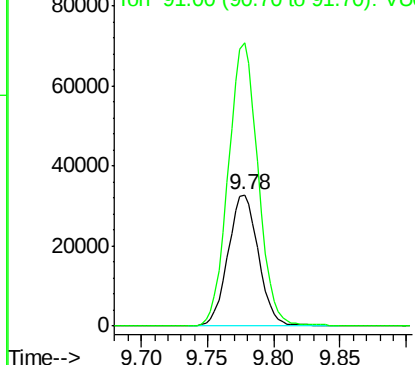
Tot Ion:106 Resp: 52275
Ion Ratio Lower Upper
106 100
91 211.7 106.1 318.3

Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:42:04 AM

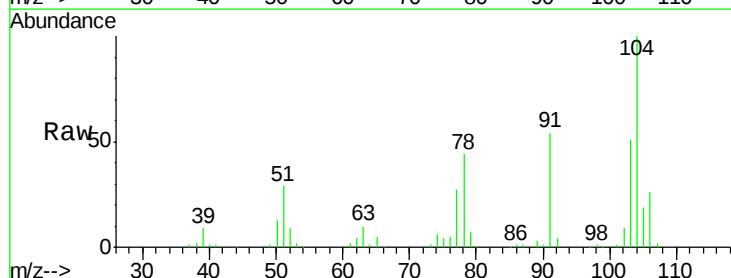


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

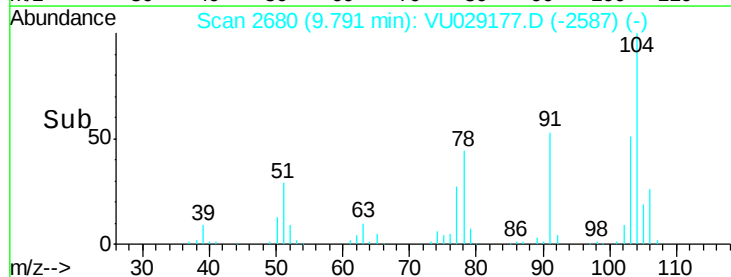
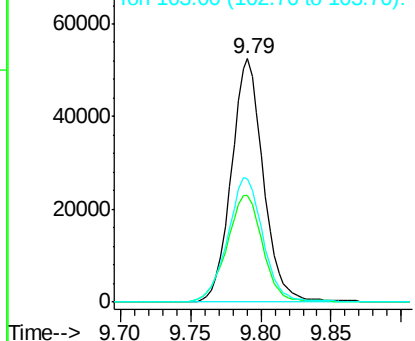


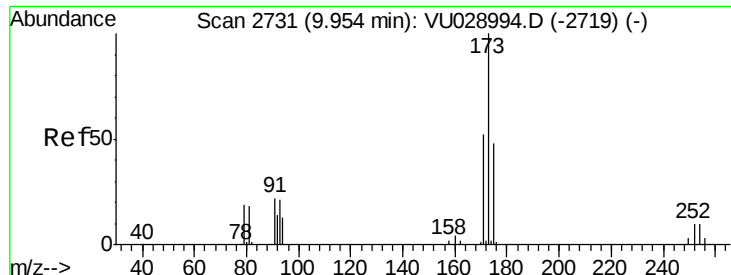
#70
Styrene
Concen: 20.152 ug/l
RT: 9.79 min Scan# 2680
Delta R.T. 0.00 min
Lab File: VU029177.D
Acq: 15 Jan 2019 11:53

Tgt Ion:104 Resp: 83339
Ion Ratio Lower Upper
104 100
78 49.3 38.6 58.0
103 56.4 44.5 66.7



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





#71

Bromoform

Concen: 20.324 ug/l

RT: 9.95 min Scan# 2731

Delta R.T. 0.00 min

Lab File: VU029177.D

Acq: 15 Jan 2019 11:53

Instrument :

MSVOA_U

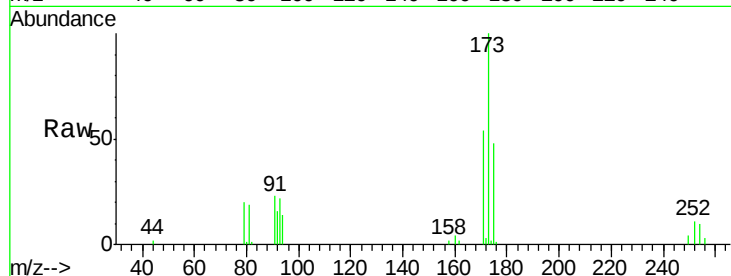
ClientSampleId :

VU0115WBSD01

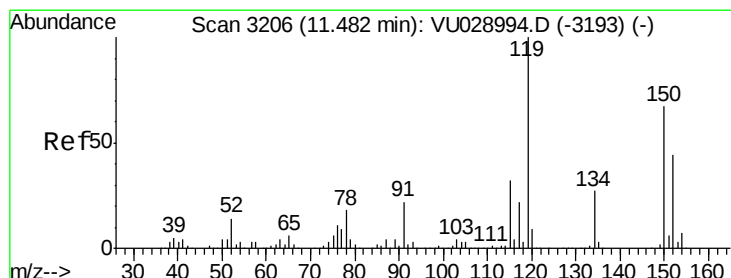
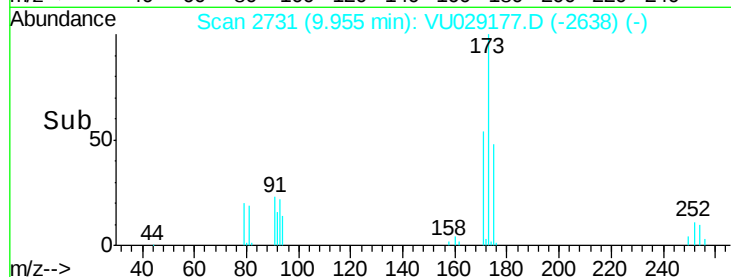
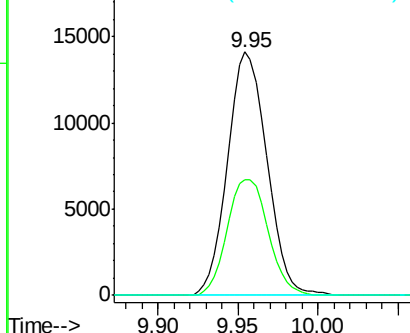
Tot Ion:	173	Resp:	23702
Ion Ratio	Lower	Upper	
173	100		
175	49.3	23.8	71.2
254	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:42:04 AM



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

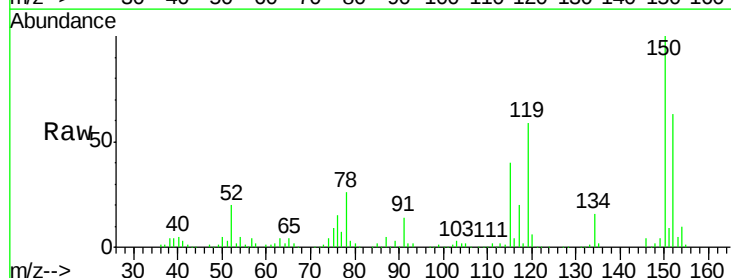
RT: 11.48 min Scan# 3206

Delta R.T. 0.00 min

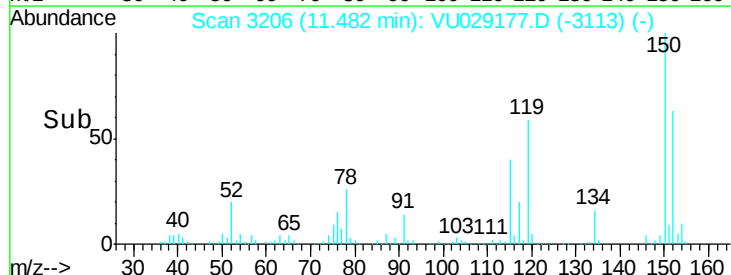
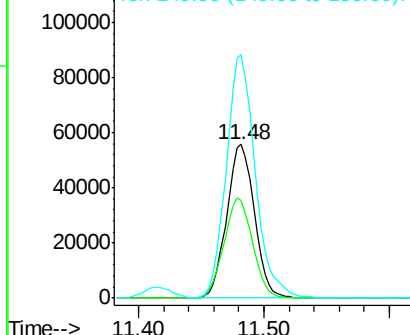
Lab File: VU029177.D

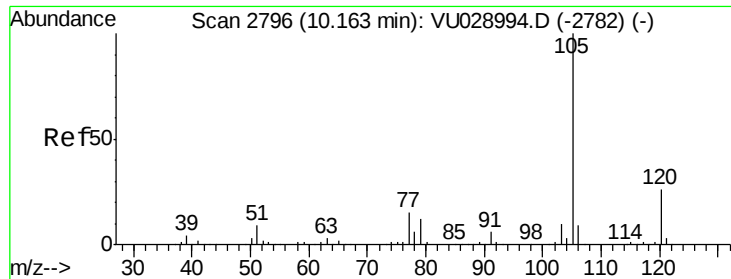
Acq: 15 Jan 2019 11:53

Tgt Ion:	152	Resp:	85532
Ion Ratio	Lower	Upper	
152	100		
115	67.2	40.1	120.3
150	165.7	0.0	345.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.521 ug/l

RT: 10.16 min Scan# 2796

Delta R.T. 0.00 min

Lab File: VU029177.D

Acq: 15 Jan 2019 11:53

Instrument :

MSVOA_U

ClientSampleId :

VU0115WBSD01

Tot Ion: 105 Resp: 136246

Ion Ratio Lower Upper

105 100

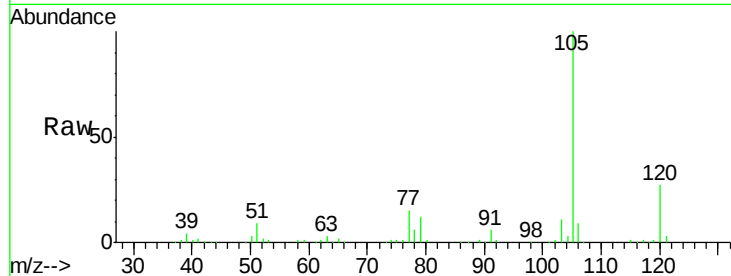
120 26.5 13.2 39.5

Manual Integrations

APPROVED

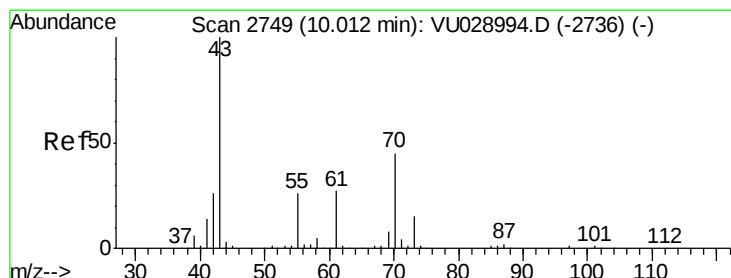
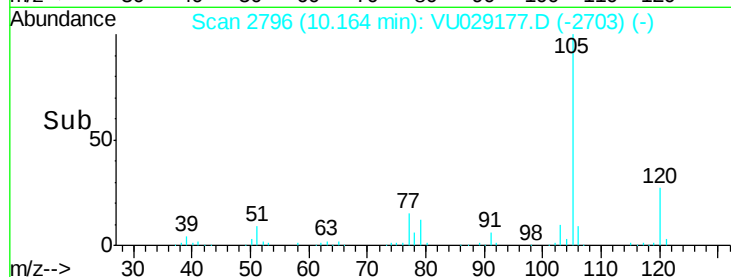
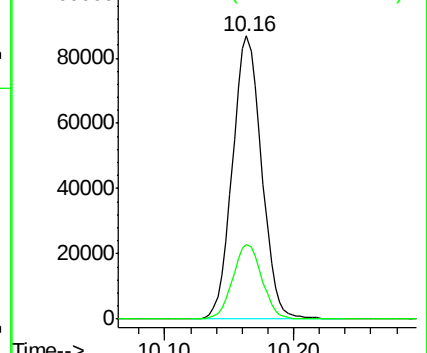
MMDadoda

1/16/2019 9:42:04 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 21.338 ug/l

RT: 10.01 min Scan# 2749

Delta R.T. 0.00 min

Lab File: VU029177.D

Acq: 15 Jan 2019 11:53

Tgt Ion: 43 Resp: 58212

Ion Ratio Lower Upper

43 100

70 45.3 36.3 54.5

55 26.4 20.5 30.7

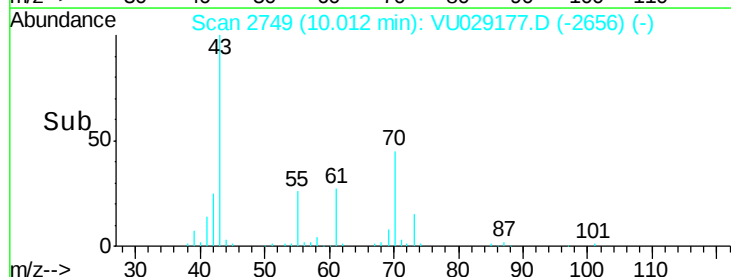
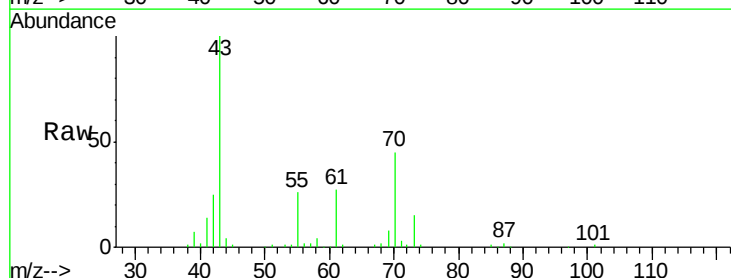
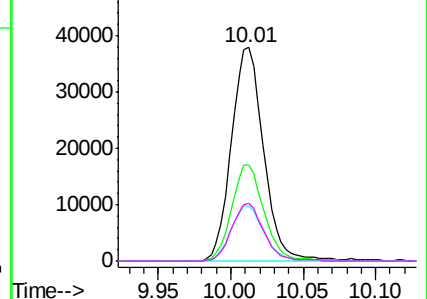
61 26.7 21.8 32.8

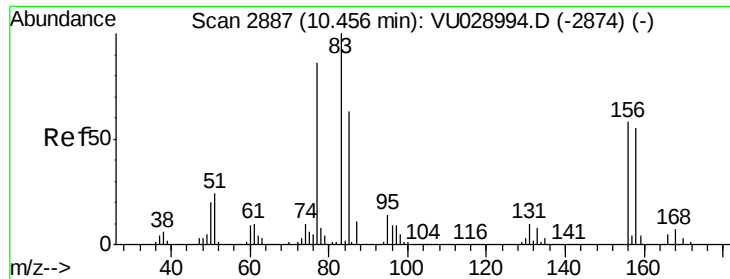
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0





#75

1,1,2,2-Tetrachloroethane

Concen: 21.536 ug/l

RT: 10.45 min Scan# 2886

Delta R.T. -0.00 min

Lab File: VU029177.D

Acq: 15 Jan 2019 11:53

Instrument :

MSVOA_U

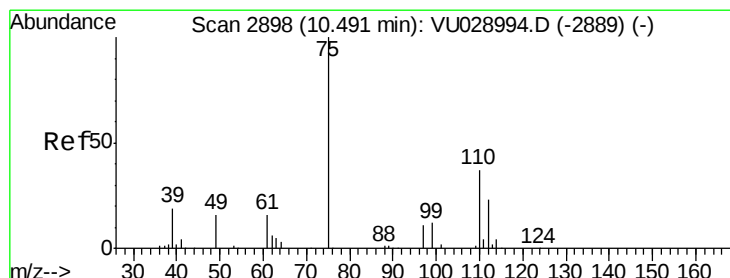
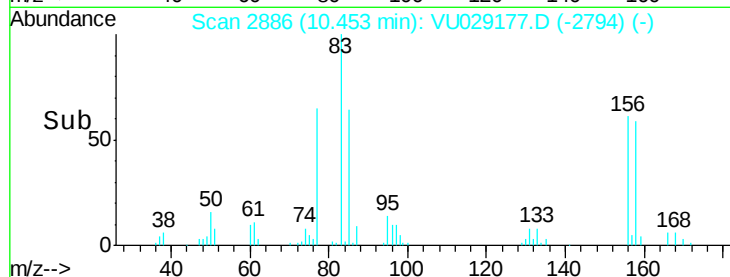
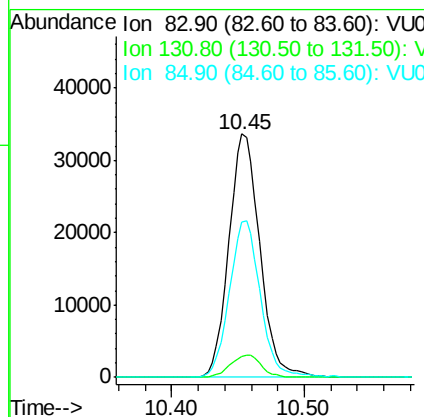
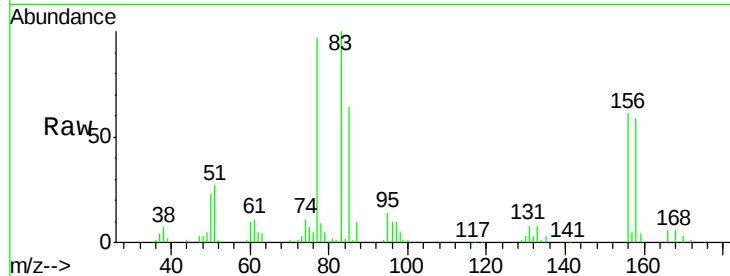
ClientSampleId :

VU0115WBSD01

Tot Ion:	83	Resp:	54643
Ion Ratio	Lower	Upper	
83	100		
131	9.0	4.7	14.1
85	64.2	32.0	96.2

Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:42:04 AM



#76

1,2,3-Trichloropropane

Concen: 22.319 ug/l m

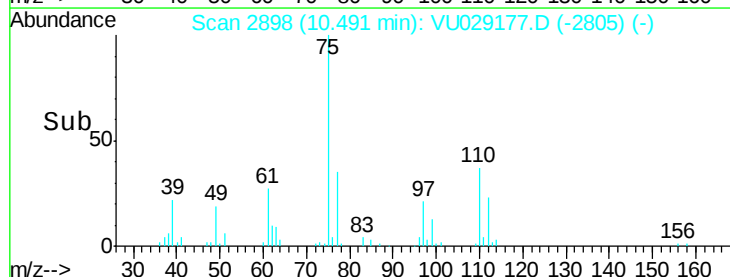
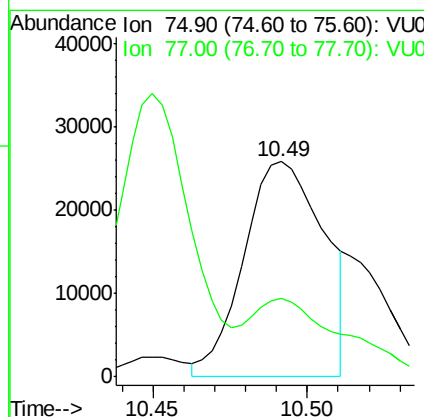
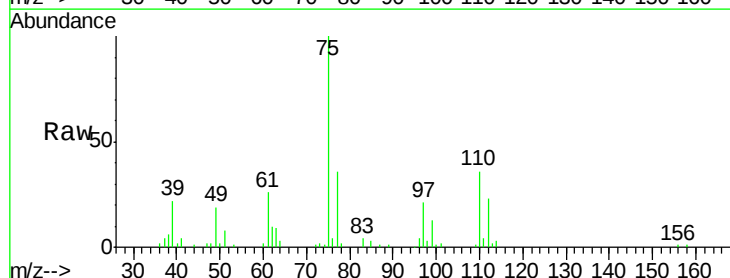
RT: 10.49 min Scan# 2898

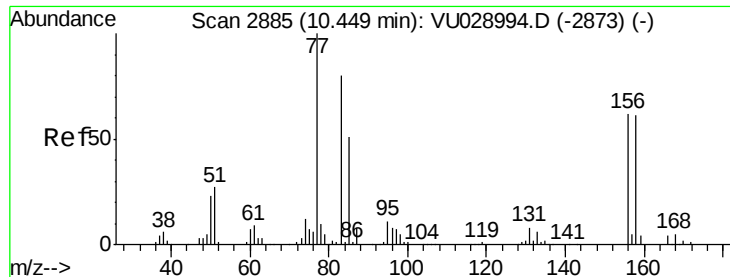
Delta R.T. 0.00 min

Lab File: VU029177.D

Acq: 15 Jan 2019 11:53

Tgt Ion:	75	Resp:	46773
Ion Ratio	Lower	Upper	
75	100		
77	41.5	20.9	62.8





#77

Bromobenzene

Concen: 20.893 ug/l

RT: 10.45 min Scan# 2885

Delta R.T. 0.00 min

Lab File: VU029177.D

Acq: 15 Jan 2019 11:53

Instrument :

MSVOA_U

ClientSampleId :

VU0115WBSD01

Tot Ion:156 Resp: 34470

Ion Ratio Lower Upper

156 100

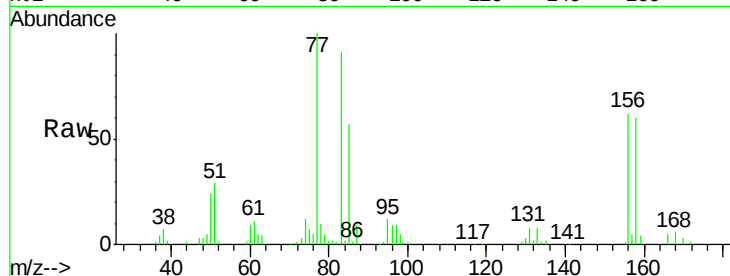
77 162.9 79.0 237.2

158 97.3 48.9 146.6

Manual Integrations
APPROVED

MMDadoda

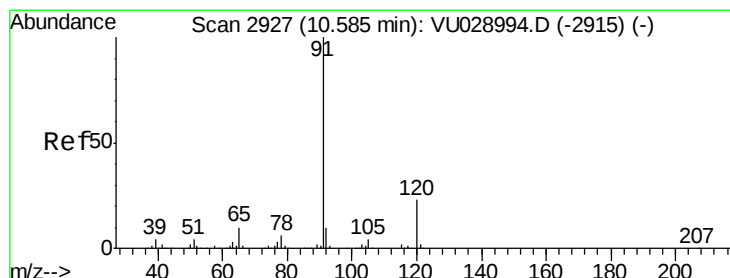
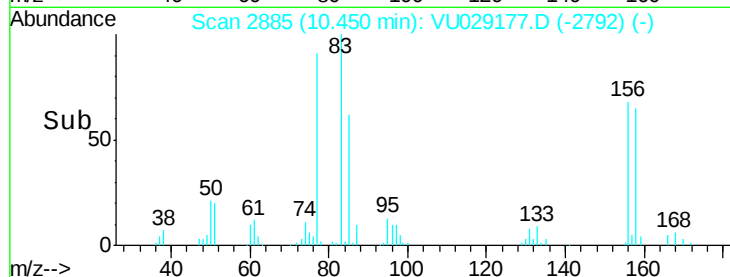
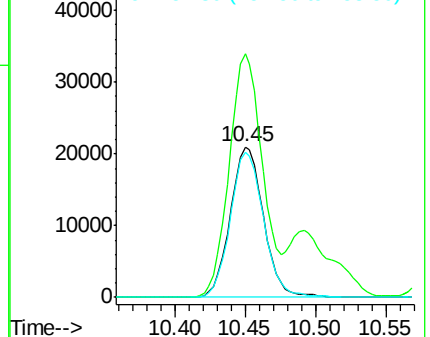
1/16/2019 9:42:04 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VU0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 21.644 ug/l

RT: 10.58 min Scan# 2927

Delta R.T. 0.00 min

Lab File: VU029177.D

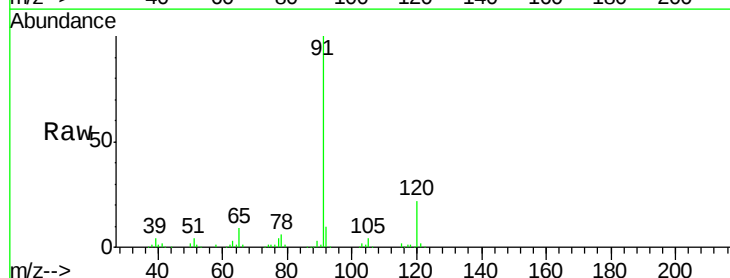
Acq: 15 Jan 2019 11:53

Tgt Ion: 91 Resp: 161485

Ion Ratio Lower Upper

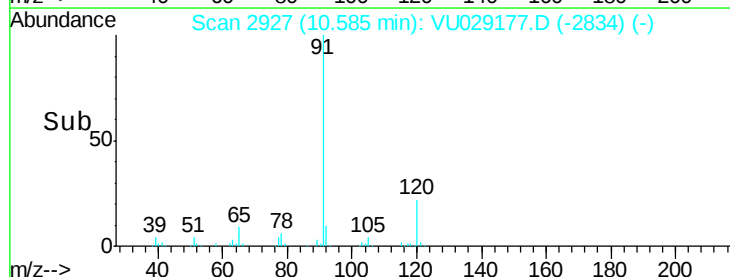
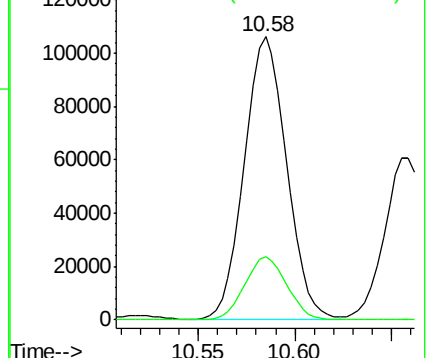
91 100

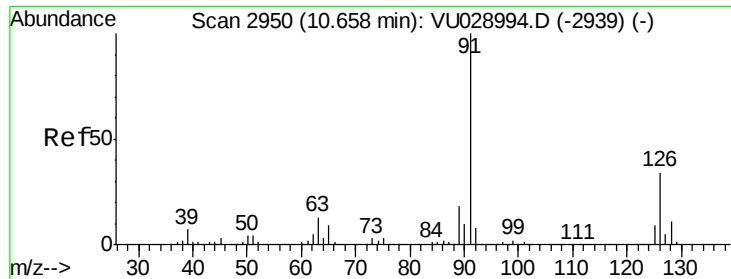
120 22.3 11.3 33.9



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 120.00 (119.70 to 120.70): V





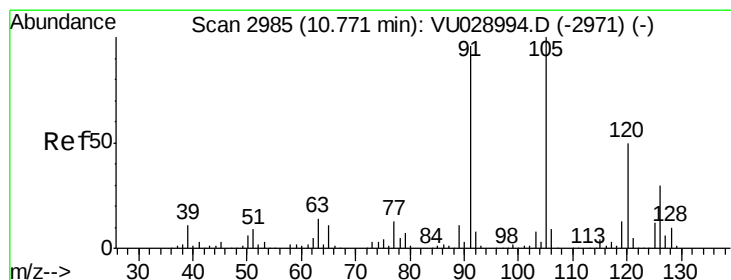
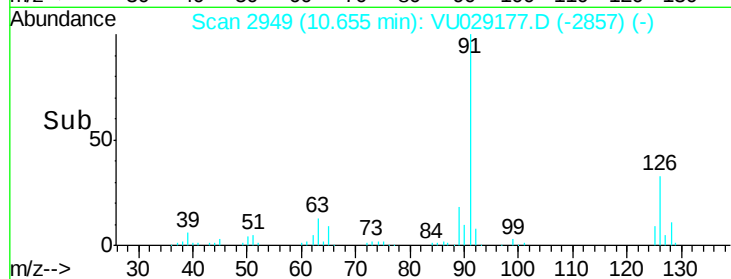
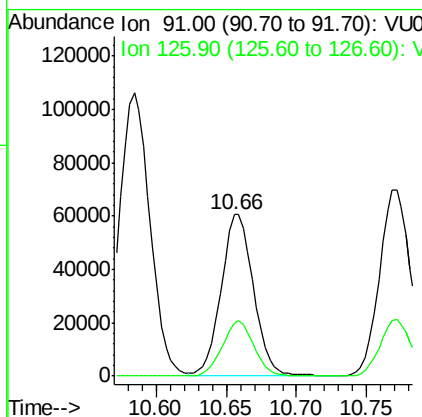
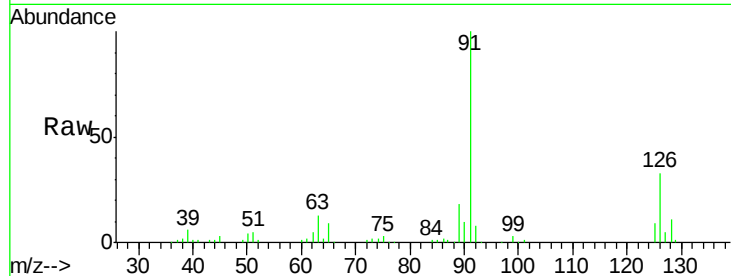
#79
 2-Chlorotoluene
 Concen: 21.313 ug/l
 RT: 10.66 min Scan# 2949
 Delta R.T. -0.00 min
 Lab File: VU029177.D
 Acq: 15 Jan 2019 11:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0115WBSD01

Tot Ion: 91 Resp: 96461
 Ion Ratio Lower Upper
 91 100
 126 33.7 16.8 50.4

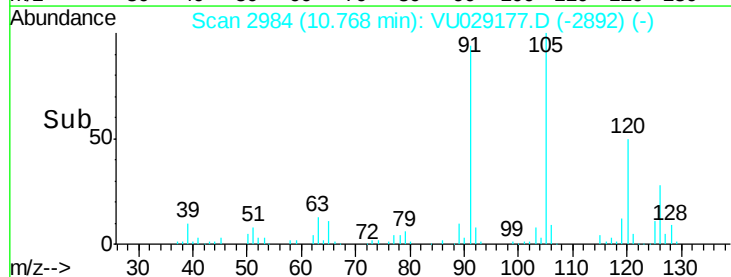
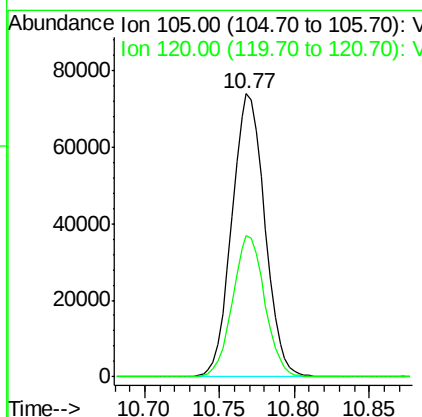
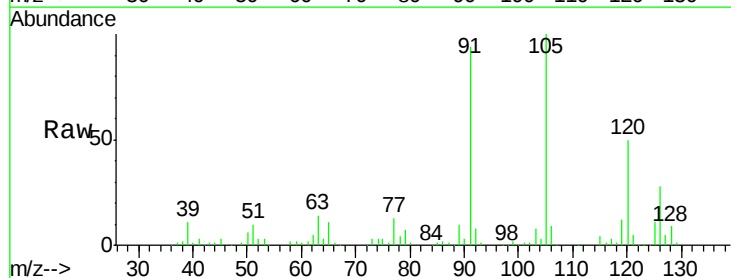
Manual Integrations
 APPROVED

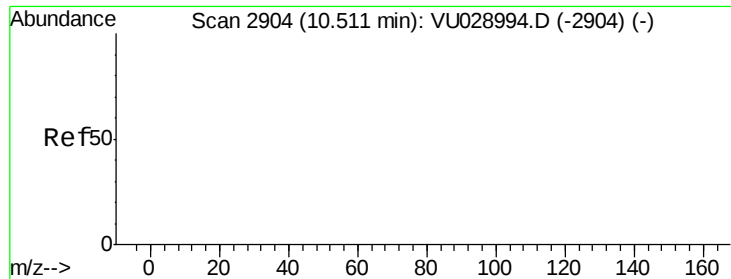
MMDadoda
 1/16/2019 9:42:04 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 21.449 ug/l
 RT: 10.77 min Scan# 2984
 Delta R.T. -0.00 min
 Lab File: VU029177.D
 Acq: 15 Jan 2019 11:53

Tgt Ion: 105 Resp: 113398
 Ion Ratio Lower Upper
 105 100
 120 48.9 24.8 74.4





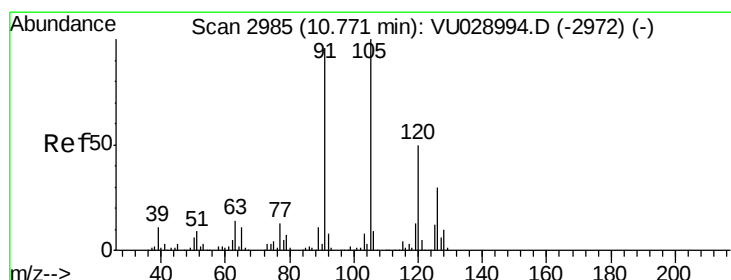
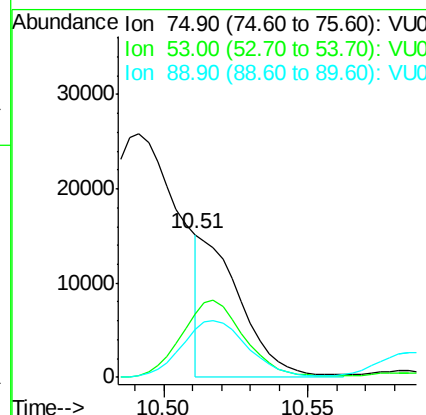
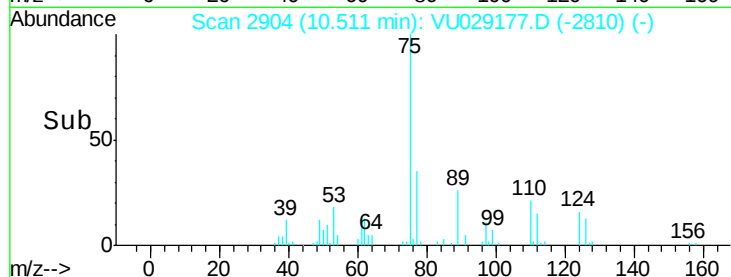
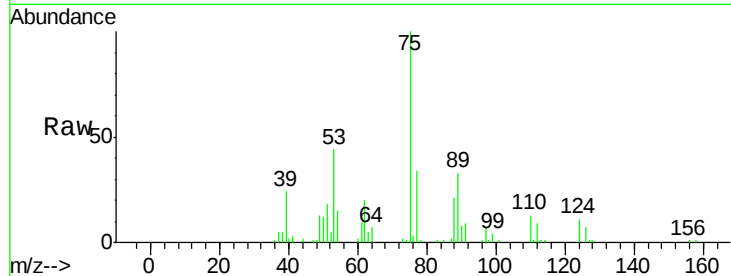
#81
trans-1,4-Dichloro-2-butene
Concen: 18.174 ug/l m
RT: 10.51 min Scan# 2904
Delta R.T. 0.00 min
Lab File: VU029177.D
Acq: 15 Jan 2019 11:53

Instrument :
MSVOA_U
ClientSampleId :
VU0115WBSD01

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

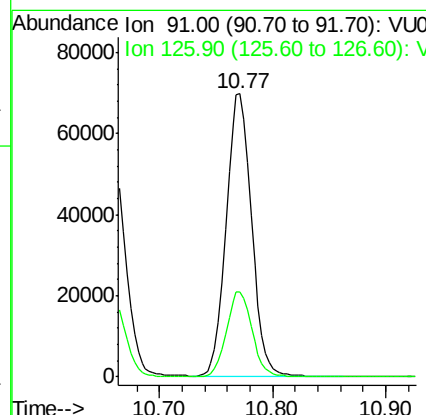
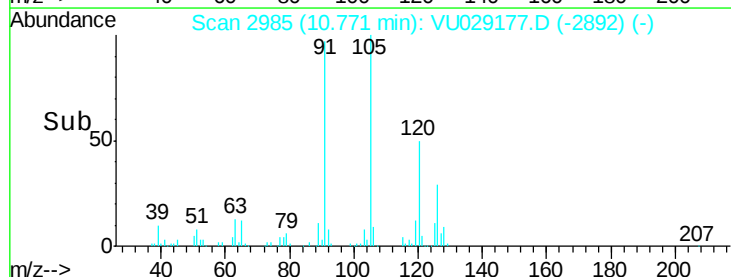
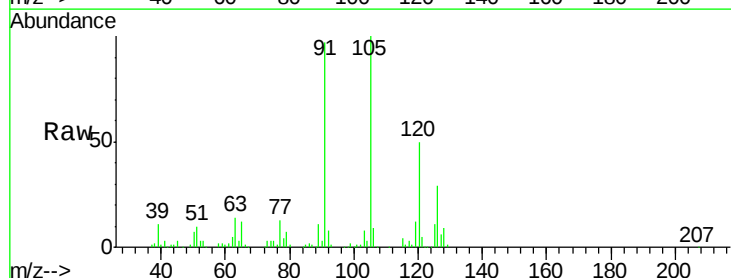
Manual Integrations
APPROVED

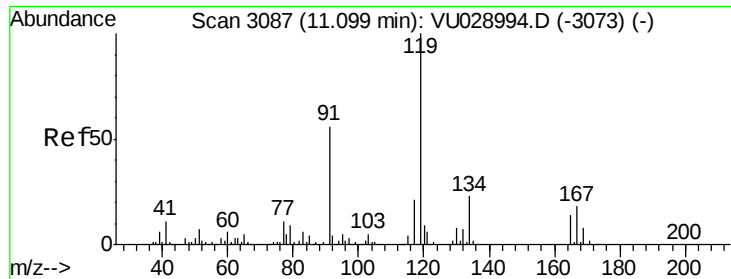
MMDadoda
1/16/2019 9:42:04 AM



#82
4-Chlorotoluene
Concen: 20.983 ug/l
RT: 10.77 min Scan# 2985
Delta R.T. 0.00 min
Lab File: VU029177.D
Acq: 15 Jan 2019 11:53

Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.4	15.5	46.5





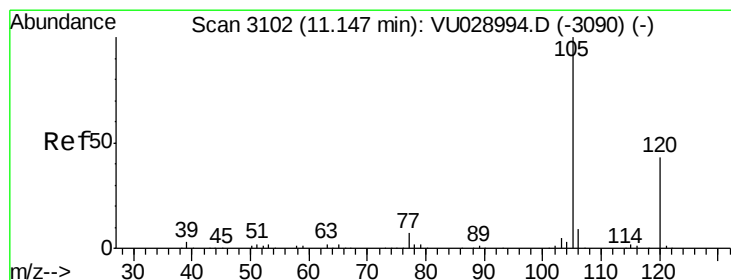
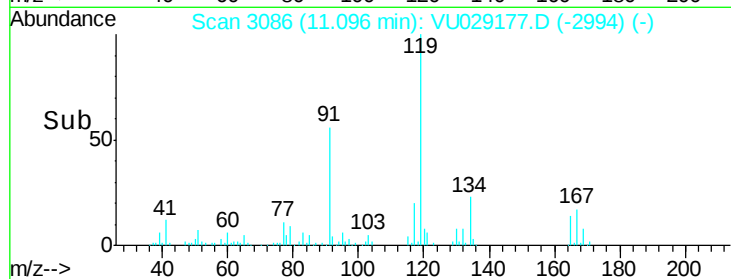
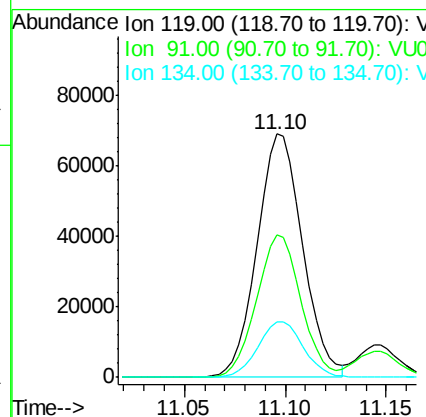
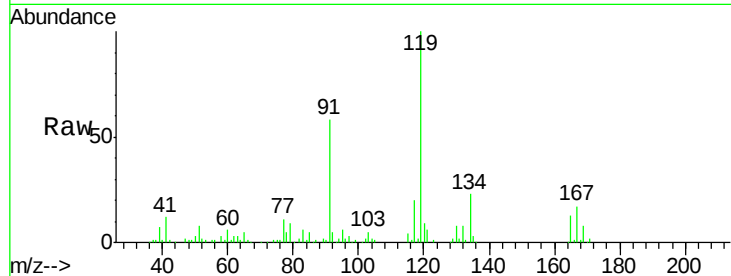
#83
tert-Butylbenzene
Concen: 20.920 ug/l
RT: 11.10 min Scan# 3086
Delta R.T. -0.00 min
Lab File: VU029177.D
Acq: 15 Jan 2019 11:53

Instrument :
MSVOA_U
ClientSampleId :
VU0115WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	109012		
91	57.0	28.2	84.6	
134	22.7	11.3	33.8	

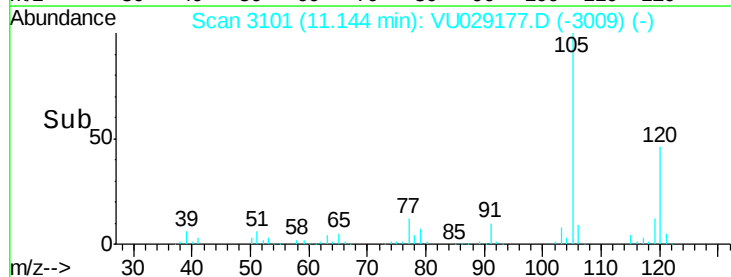
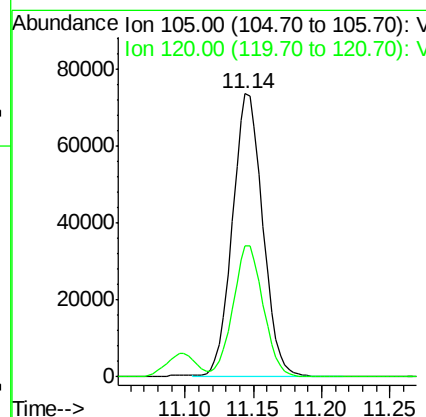
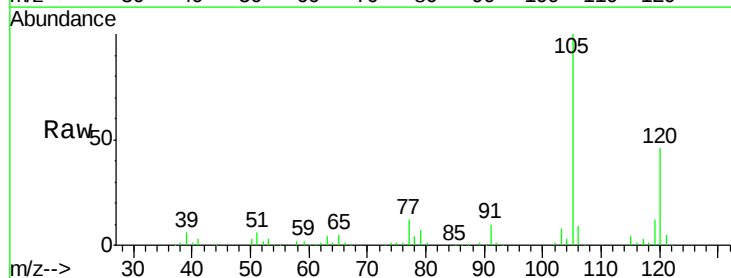
Manual Integrations
APPROVED

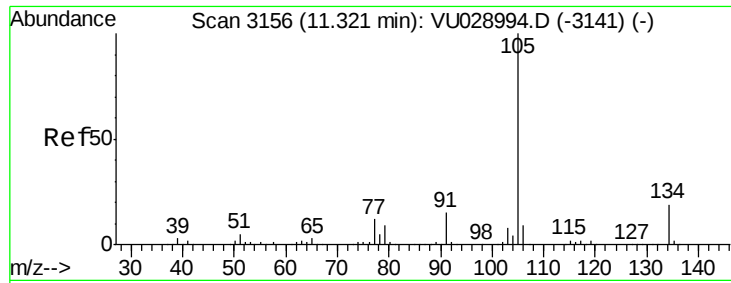
MMDadoda
1/16/2019 9:42:04 AM



#84
1,2,4-Trimethylbenzene
Concen: 21.394 ug/l
RT: 11.14 min Scan# 3101
Delta R.T. -0.00 min
Lab File: VU029177.D
Acq: 15 Jan 2019 11:53

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	112923		
120	46.5	23.1	69.3	





#85

sec-Butylbenzene

Concen: 21.949 ug/l

RT: 11.32 min Scan# 3156

Delta R.T. 0.00 min

Lab File: VU029177.D

Acq: 15 Jan 2019 11:53

Instrument :

MSVOA_U

ClientSampleId :

VU0115WBSD01

Tot Ion:105 Resp: 138319

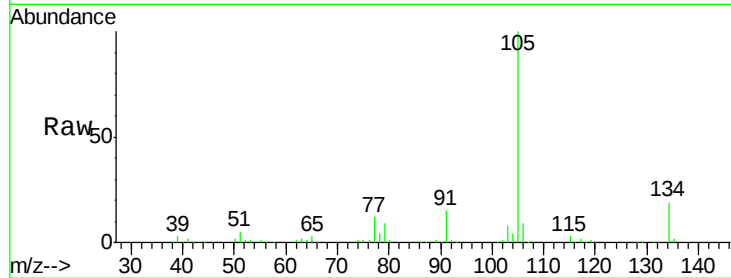
Ion Ratio Lower Upper

105 100

134 19.2 9.7 29.1

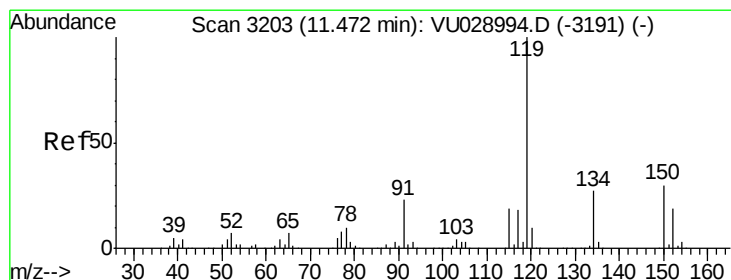
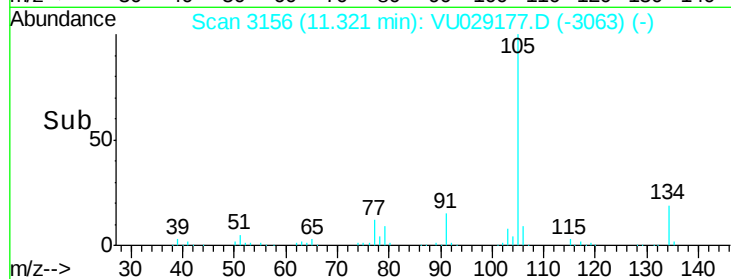
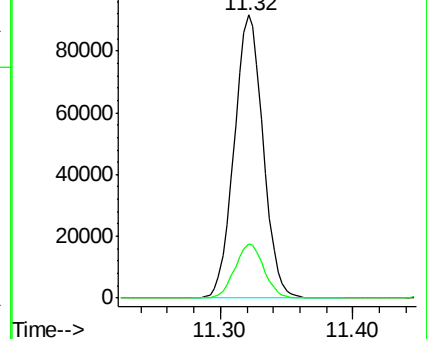
Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:42:04 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 21.679 ug/l

RT: 11.47 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VU029177.D

Acq: 15 Jan 2019 11:53

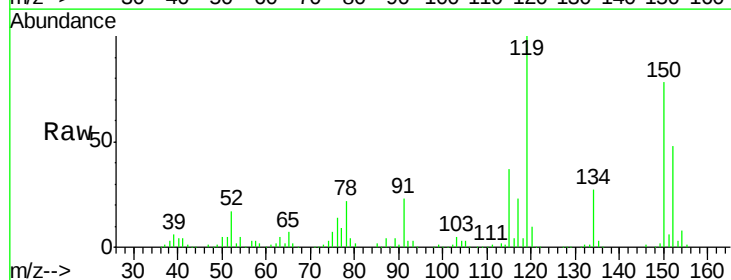
Tgt Ion:119 Resp: 116419

Ion Ratio Lower Upper

119 100

134 27.1 13.5 40.4

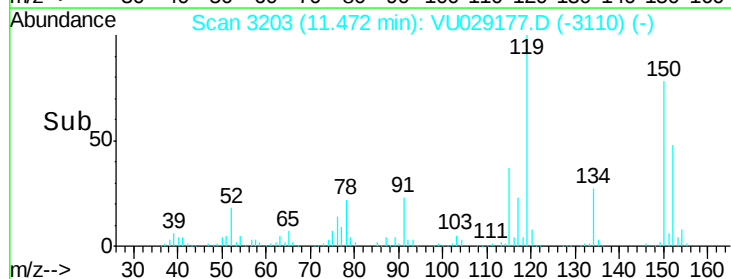
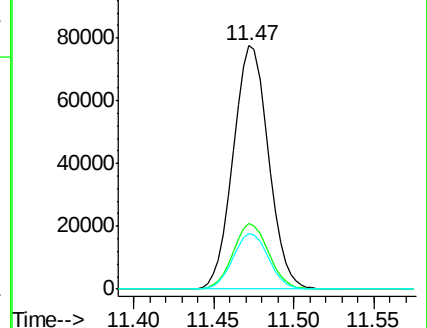
91 23.2 11.3 33.8

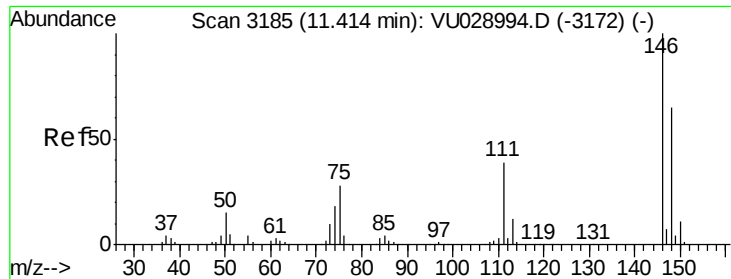


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VU0





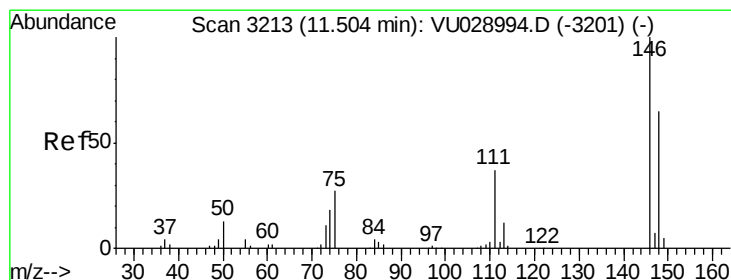
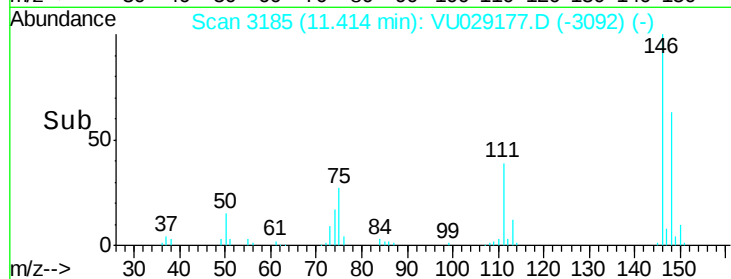
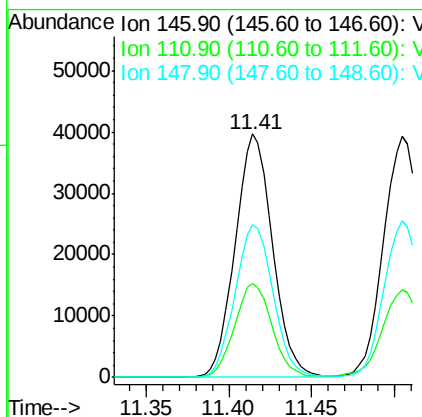
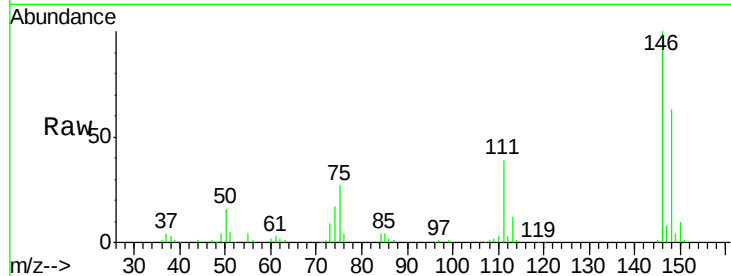
#87
 1,3-Dichlorobenzene
 Concen: 20.588 ug/l
 RT: 11.41 min Scan# 3185
 Delta R.T. 0.00 min
 Lab File: VU029177.D
 Acq: 15 Jan 2019 11:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0115WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.5	19.3	57.8
148	63.7	32.5	97.5

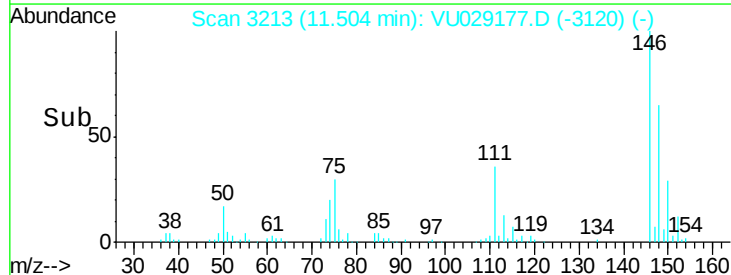
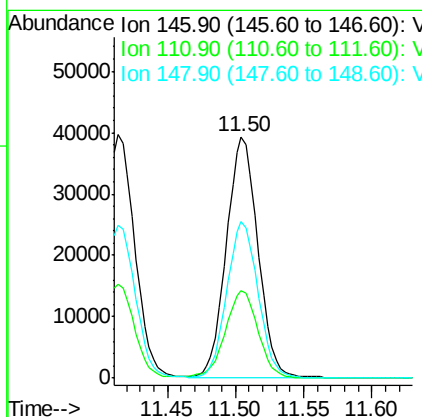
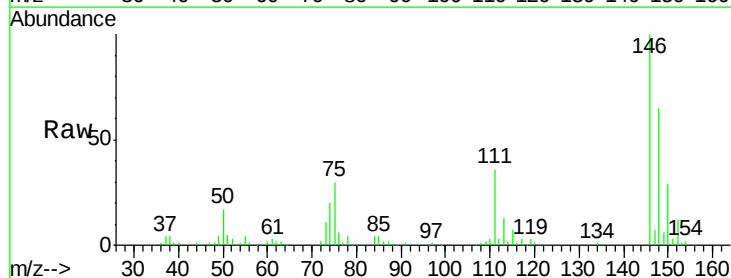
Manual Integrations
 APPROVED

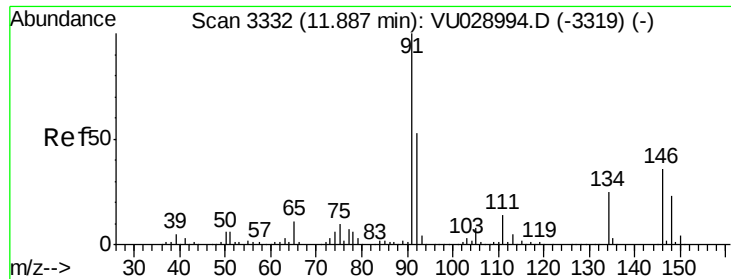
MMDadoda
 1/16/2019 9:42:04 AM



#88
 1,4-Dichlorobenzene
 Concen: 20.310 ug/l
 RT: 11.50 min Scan# 3213
 Delta R.T. 0.00 min
 Lab File: VU029177.D
 Acq: 15 Jan 2019 11:53

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.6	19.1	57.3
148	64.2	32.6	98.0





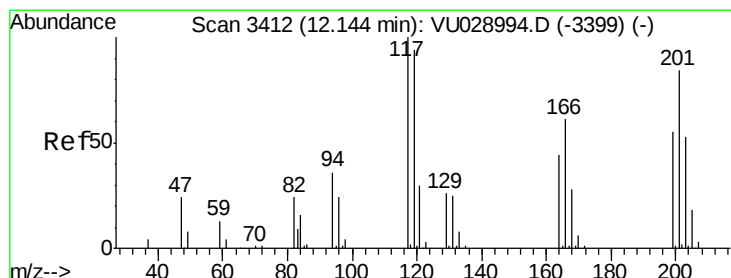
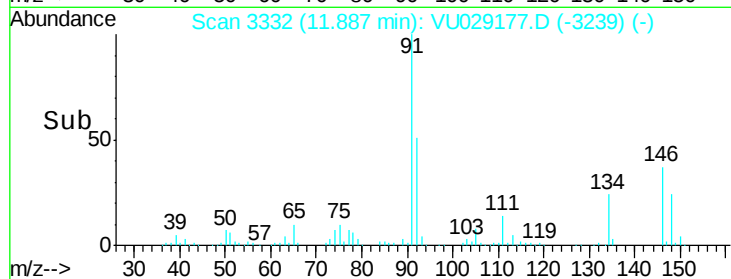
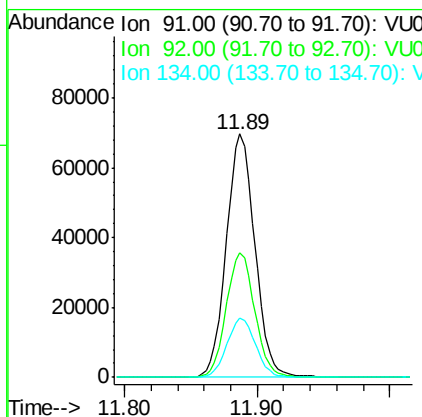
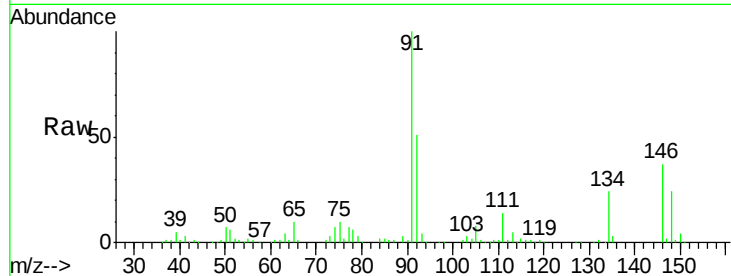
#89
n-Butylbenzene
Concen: 21.828 ug/l
RT: 11.89 min Scan# 3332
Delta R.T. 0.00 min
Lab File: VU029177.D
Acq: 15 Jan 2019 11:53

Instrument :
MSVOA_U
ClientSampleId :
VU0115WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.0	26.2	78.5
134	24.5	12.6	37.6

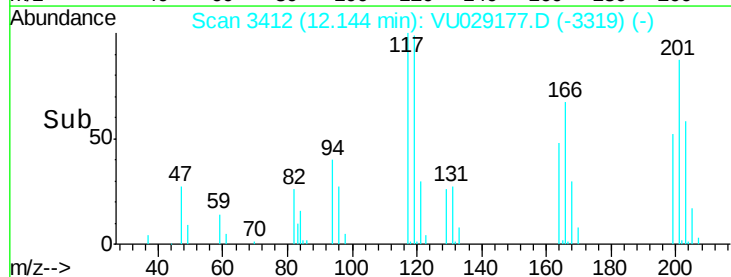
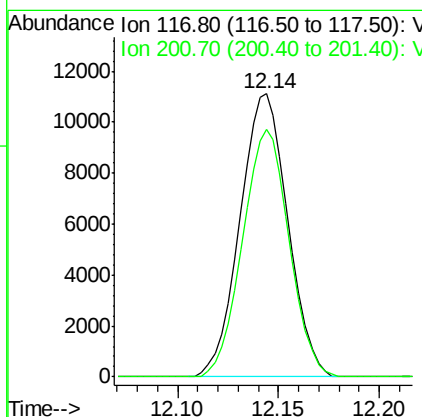
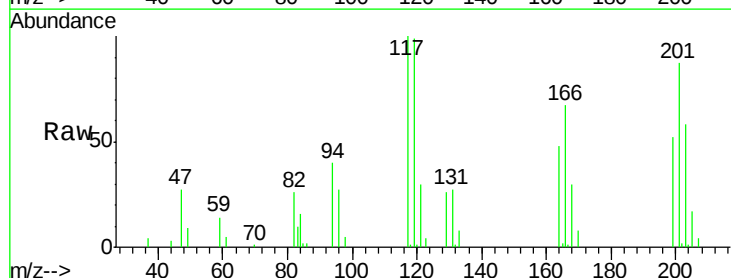
Manual Integrations
APPROVED

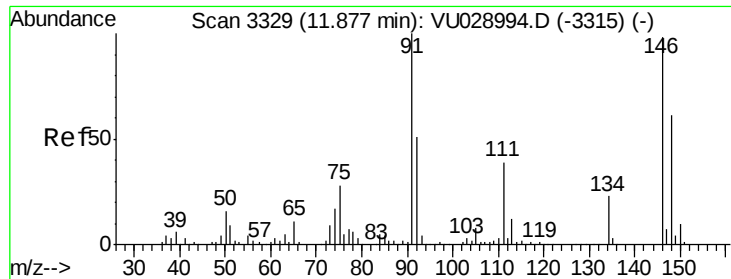
MMDadoda
1/16/2019 9:42:04 AM



#90
Hexachloroethane
Concen: 20.378 ug/l
RT: 12.14 min Scan# 3412
Delta R.T. 0.00 min
Lab File: VU029177.D
Acq: 15 Jan 2019 11:53

Tgt Ion	Ratio	Lower	Upper
117	100		
201	85.0	42.4	127.3





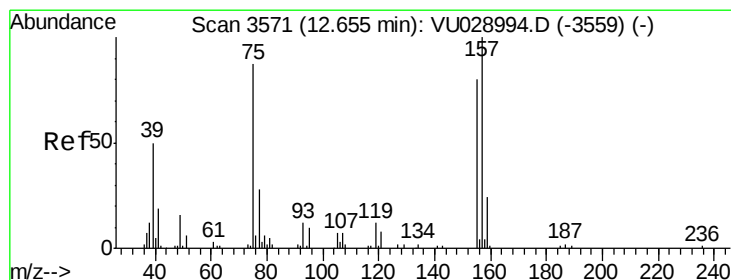
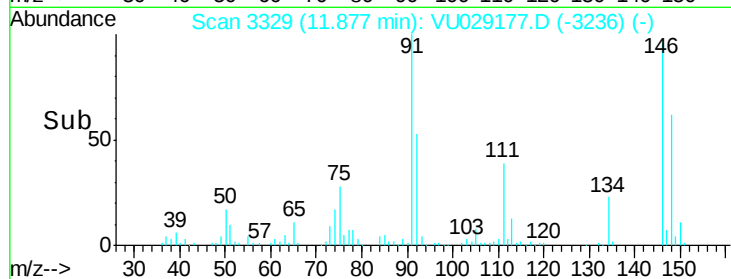
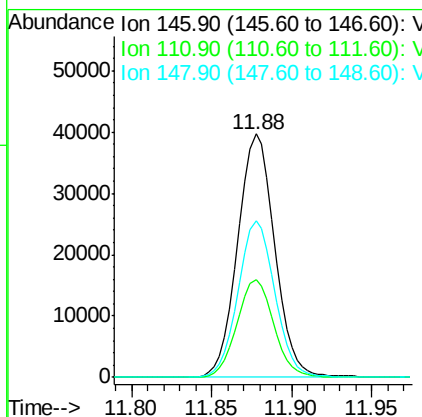
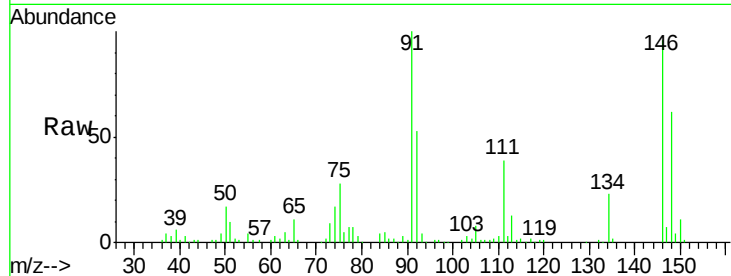
#91
 1,2-Dichlorobenzene
 Concen: 20.525 ug/l
 RT: 11.88 min Scan# 3329
 Delta R.T. 0.00 min
 Lab File: VU029177.D
 Acq: 15 Jan 2019 11:53

Instrument :
 MSVOA_U
 ClientSampleID :
 VU0115WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.8	20.0	59.9
148	63.9	31.6	94.8

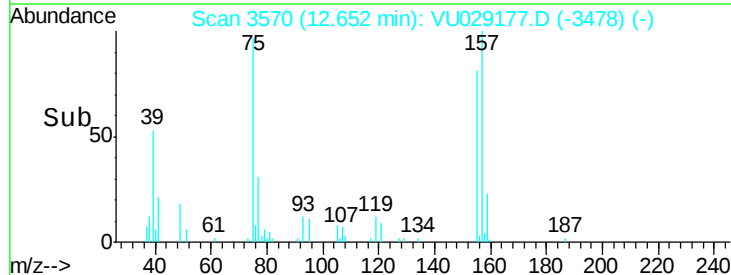
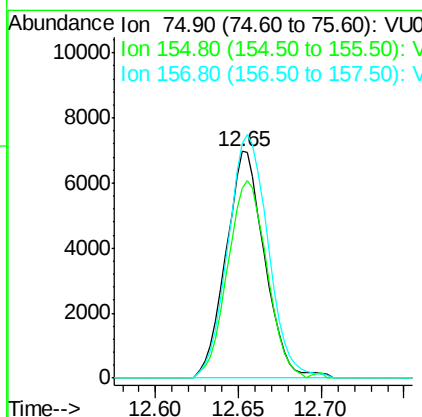
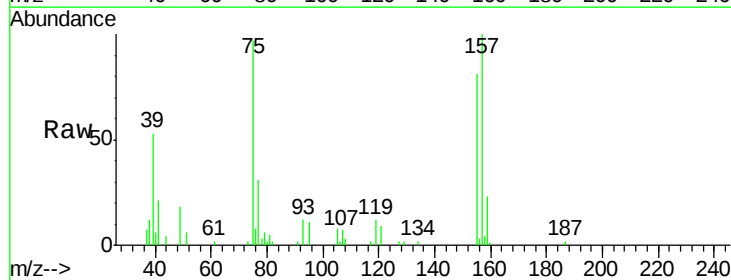
Manual Integrations
 APPROVED

MMDadoda
 1/16/2019 9:42:04 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 23.255 ug/l
 RT: 12.65 min Scan# 3570
 Delta R.T. -0.00 min
 Lab File: VU029177.D
 Acq: 15 Jan 2019 11:53

Tgt Ion	Ratio	Lower	Upper
75	100		
155	87.9	46.3	138.8
157	111.2	57.4	172.0





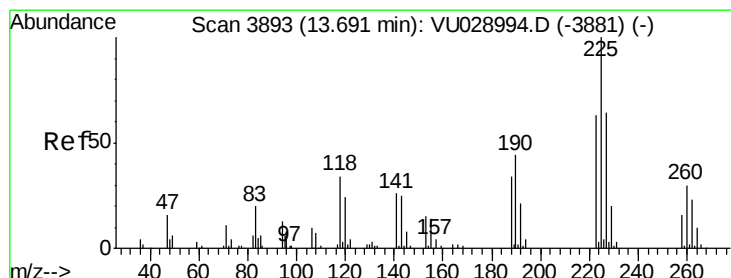
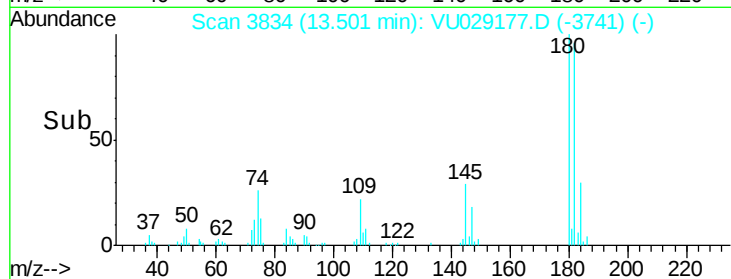
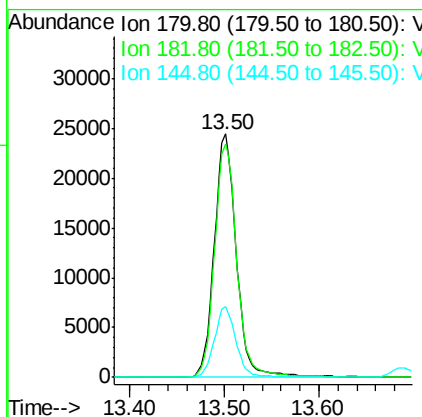
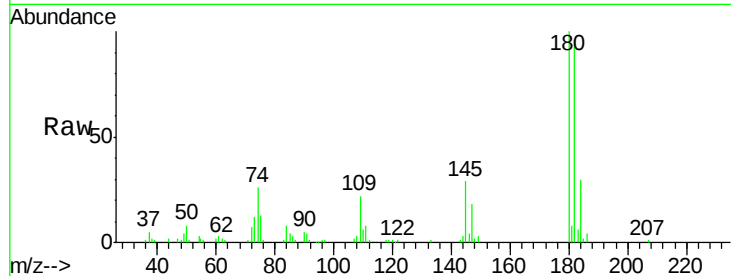
#93
 1,2,4-Trichlorobenzene
 Concen: 20.358 ug/l
 RT: 13.50 min Scan# 3834
 Delta R.T. 0.00 min
 Lab File: VU029177.D
 Acq: 15 Jan 2019 11:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0115WBSD01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.9	47.5	142.6
145	28.0	14.0	42.0

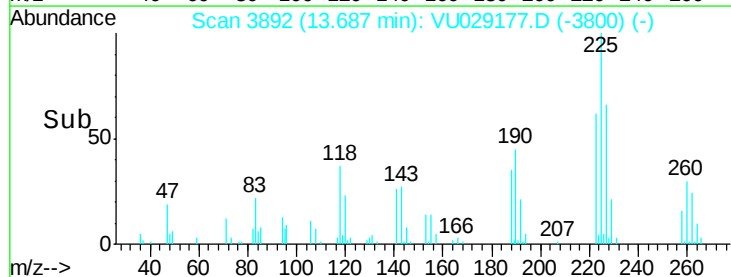
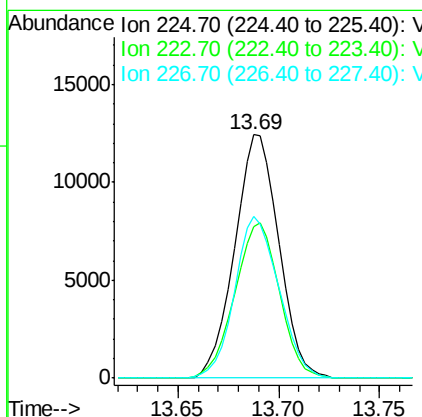
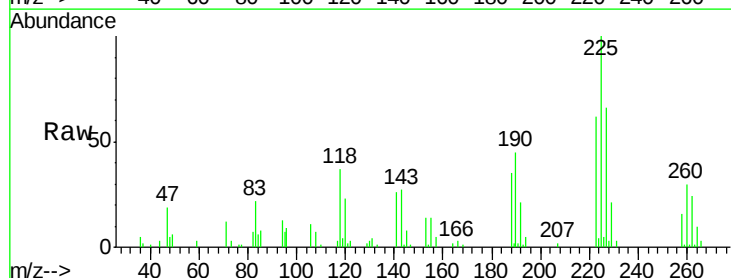
Manual Integrations
 APPROVED

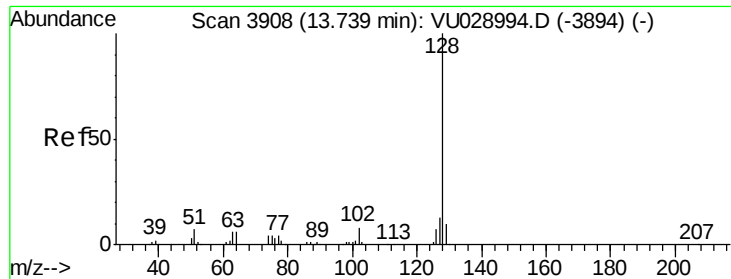
MMDadoda
 1/16/2019 9:42:04 AM



#94
 Hexachlorobutadiene
 Concen: 21.456 ug/l
 RT: 13.69 min Scan# 3892
 Delta R.T. -0.00 min
 Lab File: VU029177.D
 Acq: 15 Jan 2019 11:53

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.6	31.4	94.0
227	66.3	31.9	95.5





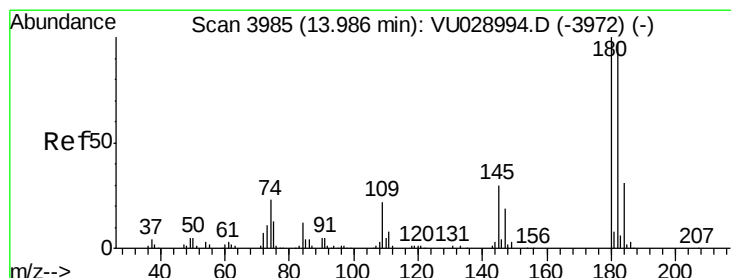
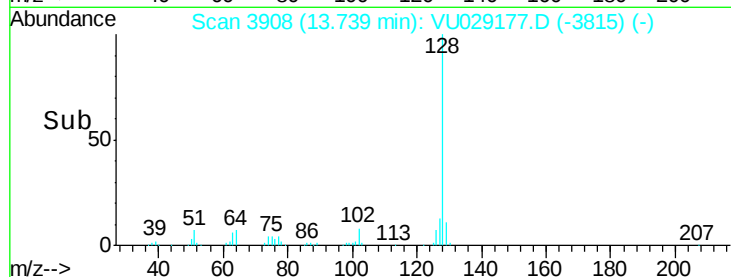
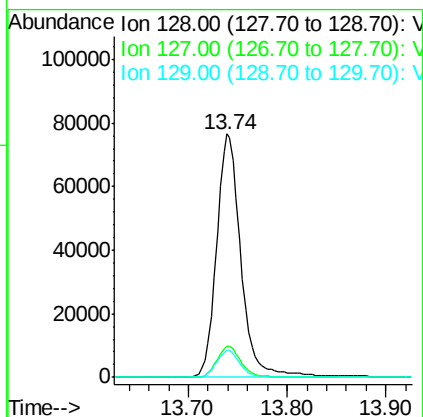
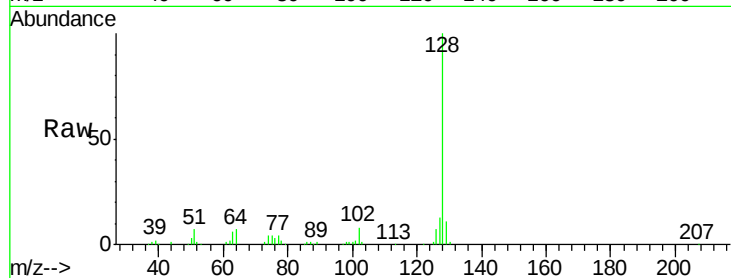
#95
Naphthalene
Concen: 20.059 ug/l
RT: 13.74 min Scan# 3908
Delta R.T. 0.00 min
Lab File: VU029177.D
Acq: 15 Jan 2019 11:53

Instrument :
MSVOA_U
ClientSampleId :
VU0115WBSD01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.1	15.1
129	10.8	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:42:04 AM



#96
1,2,3-Trichlorobenzene
Concen: 20.887 ug/l
RT: 13.98 min Scan# 3984
Delta R.T. -0.00 min
Lab File: VU029177.D
Acq: 15 Jan 2019 11:53

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.0	48.1	144.3
145	30.2	14.8	44.4

