

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU110918\
 Data File : VU028041.D
 Acq On : 09 Nov 2018 13:50
 Operator : MD/SY
 Sample : VU1109WBSD01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1109WBSD01

Manual Integrations
 APPROVED

MMDadoda
 11/12/2018 12:01:56 PM

Quant Time: Nov 12 06:46:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 02 02:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	181479	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	317535	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	294175	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	140373	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	146365	54.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.50%	
35) Dibromofluoromethane	4.89	113	106520	53.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.40%	
50) Toluene-d8	7.57	98	417471	53.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.96%	
62) 4-Bromofluorobenzene	10.31	95	152904	53.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.20%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	37093	16.085	ug/l	96
3) Chloromethane	1.33	50	56623	20.303	ug/l	100
4) Vinyl Chloride	1.40	62	54662	19.748	ug/l	99
5) Bromomethane	1.63	94	26888	25.965	ug/l	96
6) Chloroethane	1.70	64	32812	20.570	ug/l	99
7) Trichlorofluoromethane	1.89	101	63797	19.945	ug/l	97
8) Diethyl Ether	2.11	74	30807	22.494	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	2.29	101	41218	21.692	ug/l	98
10) Methyl Iodide	2.41	142	30908	22.722	ug/l	98
11) Tert butyl alcohol	2.82	59	72359	101.302	ug/l	99
12) 1,1-Dichloroethene	2.29	96	38096	20.030	ug/l	98
13) Acrolein	2.20	56	21056	75.394	ug/l	98
14) Allyl chloride	2.60	41	89410	19.234	ug/l	96
15) Acrylonitrile	2.94	53	185255	105.583	ug/l	100
16) Acetone	2.32	43	187197	111.824	ug/l	98
17) Carbon Disulfide	2.48	76	117504	18.901	ug/l	99
18) Methyl Acetate	2.62	43	94557	20.534	ug/l	97
19) Methyl tert-butyl Ether	3.00	73	158085	20.610	ug/l	100
20) Methylene Chloride	2.70	84	50262	20.564	ug/l	98
21) trans-1,2-Dichloroethene	2.99	96	43519	19.827	ug/l	96
22) Diisopropyl ether	3.58	45	197015	20.529	ug/l	96
23) Vinyl Acetate	3.53	43	842583	102.156	ug/l	99
24) 1,1-Dichloroethane	3.45	63	95735	20.027	ug/l	100
25) 2-Butanone	4.26	43	277724	104.281	ug/l	99
26) 2,2-Dichloropropane	4.23	77	74146	20.669	ug/l	99
27) cis-1,2-Dichloroethene	4.23	96	50302	20.436	ug/l	95
28) Bromochloromethane	4.55	49	49183	21.947	ug/l	99
29) Tetrahydrofuran	4.64	42	174955	98.381	ug/l	99
30) Chloroform	4.68	83	87157	19.885	ug/l	100
31) Cyclohexane	5.00	56	97201	19.697	ug/l	98
32) 1,1,1-Trichloroethane	4.92	97	71263	20.425	ug/l	99
36) 1,1-Dichloropropene	5.14	75	64955	19.532	ug/l	98
37) Ethyl Acetate	4.38	43	95419	19.582	ug/l	98
38) Carbon Tetrachloride	5.14	117	56475	19.162	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110918\
 Data File : VU028041.D
 Acq On : 09 Nov 2018 13:50
 Operator : MD/SY
 Sample : VU1109WBSD01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1109WBSD01

Manual Integrations
 APPROVED

MMDadoda
 11/12/2018 12:01:56 PM

Quant Time: Nov 12 06:46:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 02 02:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.42	83	80979	20.189	ug/l	96
40) Benzene	5.39	78	206593	20.318	ug/l	99
41) Methacrylonitrile	4.55	41	55417	21.310	ug/l	99
42) 1,2-Dichloroethane	5.41	62	73489	20.333	ug/l	98
43) Isopropyl Acetate	5.55	43	152052	19.917	ug/l	99
44) Trichloroethene	6.19	130	44355	20.294	ug/l	98
45) 1,2-Dichloropropane	6.43	63	60024	20.470	ug/l	99
46) Dibromomethane	6.56	93	34107	20.235	ug/l	98
47) Bromodichloromethane	6.76	83	65177	20.066	ug/l	96
48) Methyl methacrylate	6.62	41	79361	21.213	ug/l	99
49) 1,4-Dioxane	6.61	88	26135	428.186	ug/l	98
51) 4-Methyl-2-Pentanone	7.46	43	508527	99.742	ug/l	99
52) Toluene	7.64	92	122023	20.413	ug/l	99
53) t-1,3-Dichloropropene	7.88	75	76178	19.607	ug/l	97
54) cis-1,3-Dichloropropene	7.27	75	84225	21.034	ug/l	99
55) 1,1,2-Trichloroethane	8.07	97	48761	20.050	ug/l	98
56) Ethyl methacrylate	8.02	69	88702	20.683	ug/l	98
57) 1,3-Dichloropropane	8.24	76	90231	20.368	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.13	63	243802	106.143	ug/l	100
59) 2-Hexanone	8.36	43	399243	101.247	ug/l	99
60) Dibromochloromethane	8.48	129	45970	19.976	ug/l	100
61) 1,2-Dibromoethane	8.59	107	53987	20.892	ug/l	99
64) Tetrachloroethene	8.23	164	37504	19.661	ug/l	98
65) Chlorobenzene	9.12	112	124036	19.957	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.21	131	42650	20.091	ug/l	100
67) Ethyl Benzene	9.25	91	230407	20.140	ug/l	100
68) m/p-Xylenes	9.38	106	169625	40.865	ug/l	100
69) o-Xylene	9.78	106	83780	19.988	ug/l	99
70) Styrene	9.79	104	136744	20.418	ug/l	99
71) Bromoform	9.96	173	34429	19.352	ug/l #	98
73) Isopropylbenzene	10.17	105	225970	20.780	ug/l	100
74) N-amyl acetate	10.01	43	135309	20.577	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.46	83	88380	20.148	ug/l	100
76) 1,2,3-Trichloropropane	10.49	75	74704m	19.456	ug/l	
77) Bromobenzene	10.45	156	50241	20.148	ug/l	96
78) n-propylbenzene	10.59	91	269036	20.668	ug/l	99
79) 2-Chlorotoluene	10.66	91	159305	20.418	ug/l	99
80) 1,3,5-Trimethylbenzene	10.77	105	183556	20.376	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.51	75	28470m	18.679	ug/l	
82) 4-Chlorotoluene	10.77	91	177777	20.070	ug/l	99
83) tert-Butylbenzene	11.10	119	181413	20.144	ug/l	100
84) 1,2,4-Trimethylbenzene	11.15	105	185153	20.411	ug/l	100
85) sec-Butylbenzene	11.32	105	225831	20.619	ug/l	100
86) p-Isopropyltoluene	11.48	119	188909	20.632	ug/l	99
87) 1,3-Dichlorobenzene	11.42	146	93408	20.278	ug/l	99
88) 1,4-Dichlorobenzene	11.51	146	93817	19.871	ug/l	99
89) n-Butylbenzene	11.89	91	176231	20.253	ug/l	100
90) Hexachloroethane	12.14	117	31762	19.485	ug/l	97
91) 1,2-Dichlorobenzene	11.88	146	95993	20.723	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.66	75	19326	20.909	ug/l	95

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU110918\
Data File : VU028041.D
Acq On : 09 Nov 2018 13:50
Operator : MD/SY
Sample : VU1109WBSD01
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBSD01

Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:01:56 PM

Quant Time: Nov 12 06:46:49 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 02 02:28:20 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	59652	18.795	ug/l	99
94) Hexachlorobutadiene	13.69	225	30412	20.657	ug/l	97
95) Naphthalene	13.74	128	219515	18.952	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	62283	20.037	ug/l	99

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

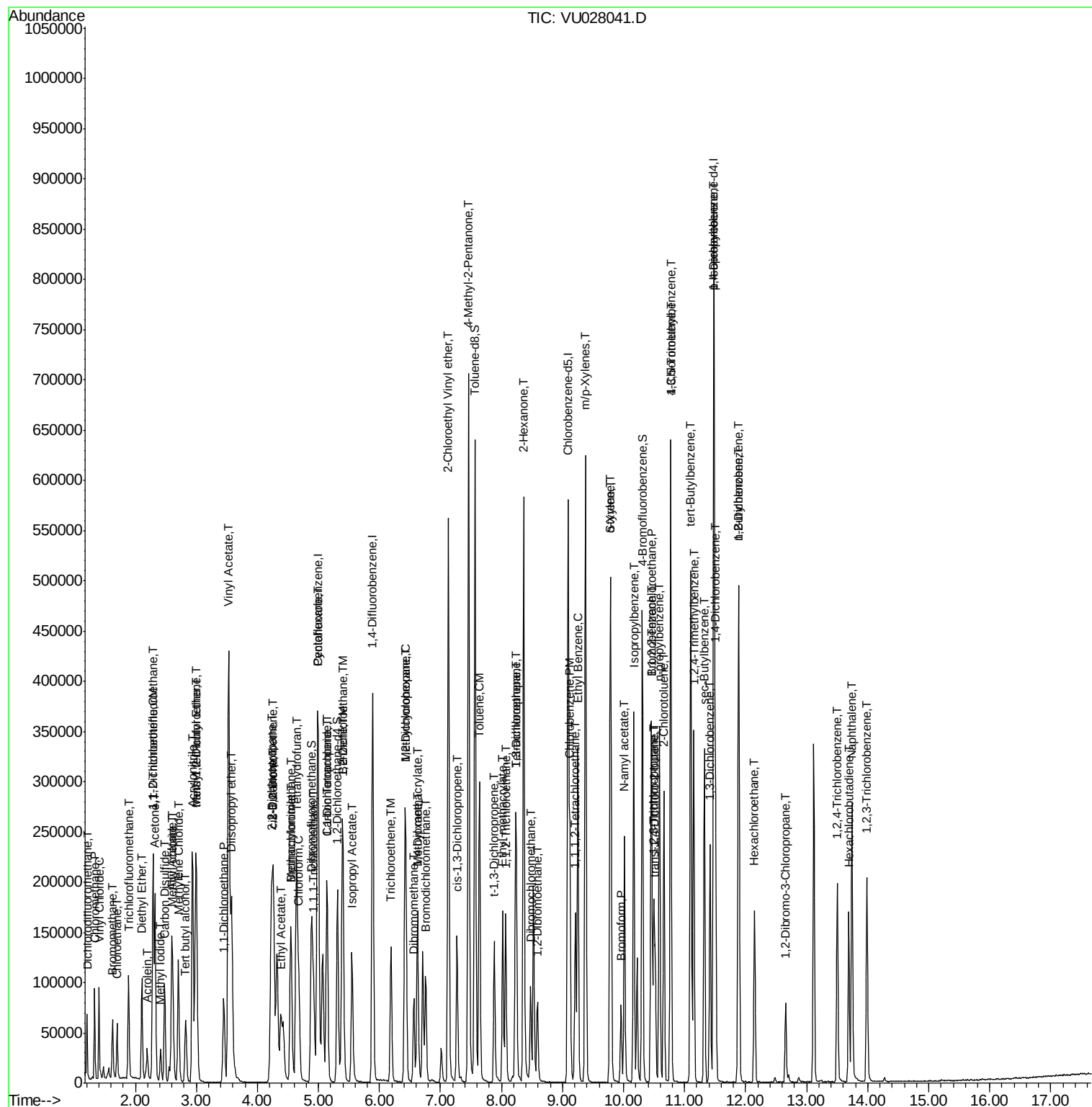
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU110918\
Data File : VU028041.D
Acq On : 09 Nov 2018 13:50
Operator : MD/SY
Sample : VU1109WBSD01
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 10 Sample Multiplier: 1

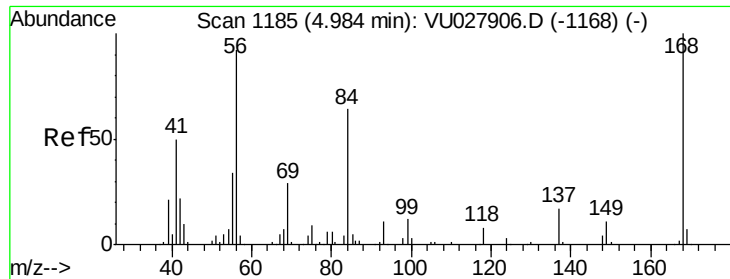
Instrument :
MSVOA_U
ClientSampleId :
VU1109WBSD01

Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:01:56 PM

Quant Time: Nov 12 06:46:49 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 02 02:28:20 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU028041.D

Acq: 09 Nov 2018 13:50

Instrument :

MSVOA_U

ClientSampleId :

VU1109WBSD01

Tot Ion:168 Resp: 181479

Ion Ratio Lower Upper

168 100

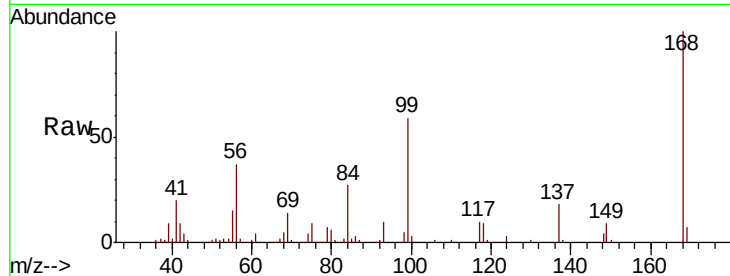
99 59.0 47.9 71.9

Manual Integrations

APPROVED

MMDadoda

11/12/2018 12:01:56 PM



Abundance Ion 167.90 (167.60 to 168.60): VU027906.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU027906.D (-1168) (-)

4.99

80000

60000

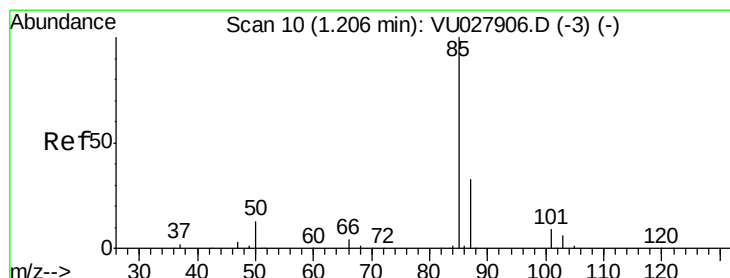
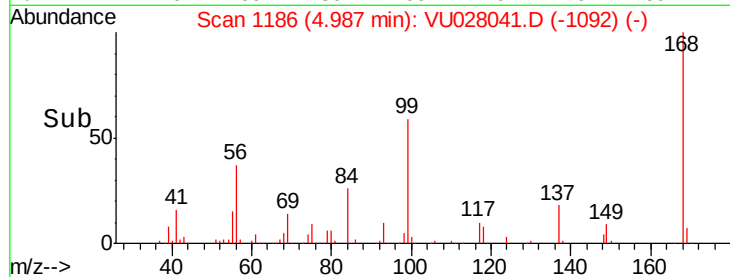
40000

20000

0

4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 16.085 ug/l

RT: 1.21 min Scan# 11

Delta R.T. 0.00 min

Lab File: VU028041.D

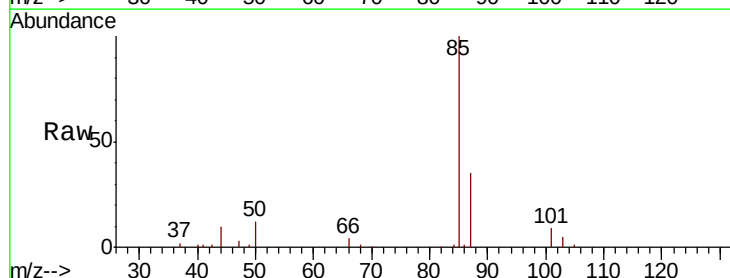
Acq: 09 Nov 2018 13:50

Tgt Ion: 85 Resp: 37093

Ion Ratio Lower Upper

85 100

87 35.0 16.5 49.5



Abundance Ion 84.90 (84.60 to 85.60): VU027906.D (-3) (-)

Ion 86.90 (86.60 to 87.60): VU027906.D (-3) (-)

1.21

40000

30000

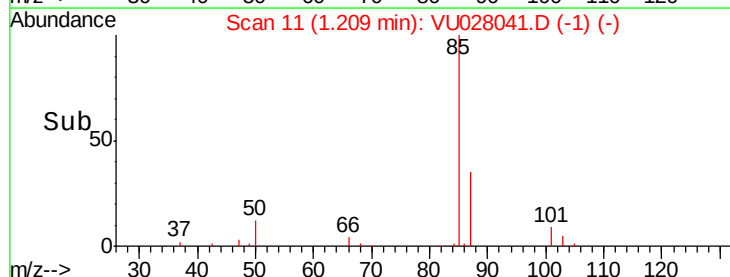
20000

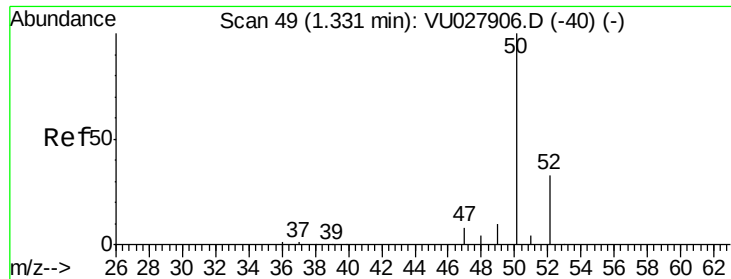
10000

0

1.20 1.25

Time-->





#3

Chloromethane

Concen: 20.303 ug/l

RT: 1.33 min Scan# 49

Delta R.T. -0.00 min

Lab File: VU028041.D

Acq: 09 Nov 2018 13:50

Instrument :

MSVOA_U

ClientSampleId :

VU1109WBSD01

Tot Ion: 50 Resp: 56623

Ion Ratio Lower Upper

50 100

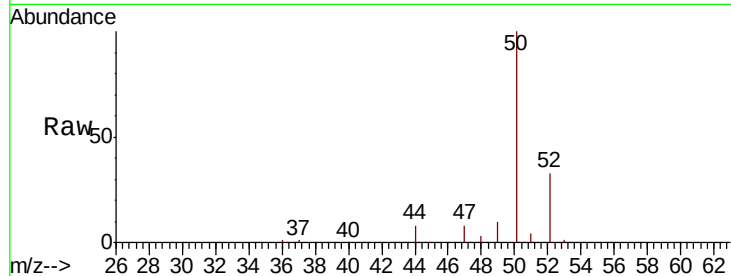
52 32.6 26.2 39.4

Manual Integrations

APPROVED

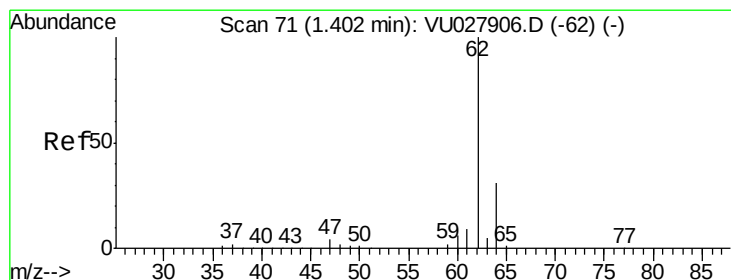
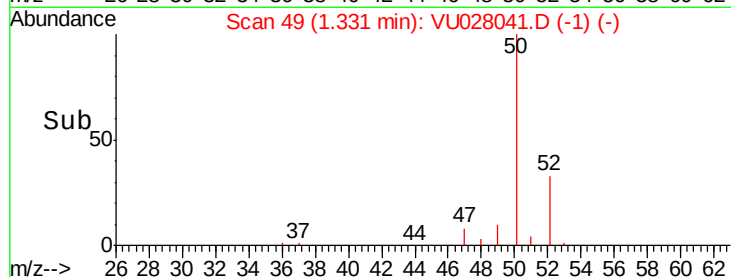
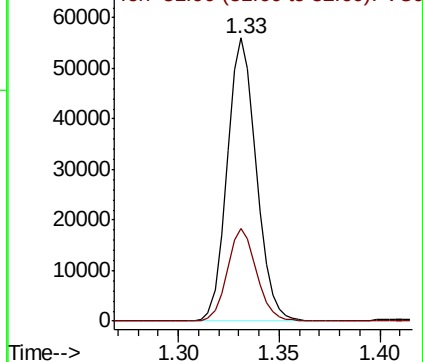
MMDadoda

11/12/2018 12:01:56 PM



Abundance Ion 49.90 (49.60 to 50.60): VU027906.D (-40) (-)

Ion 51.90 (51.60 to 52.60): VU028041.D (-1) (-)



#4

Vinyl Chloride

Concen: 19.748 ug/l

RT: 1.40 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU028041.D

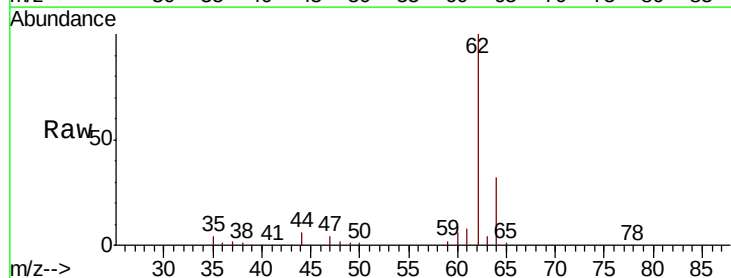
Acq: 09 Nov 2018 13:50

Tgt Ion: 62 Resp: 54662

Ion Ratio Lower Upper

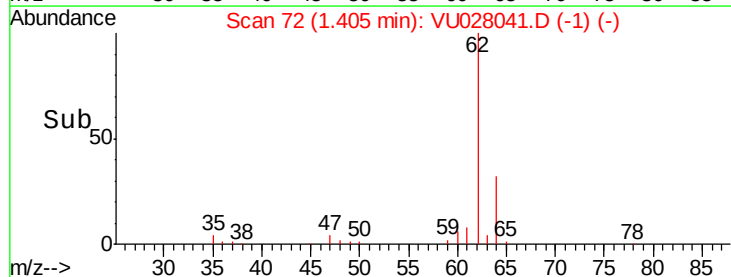
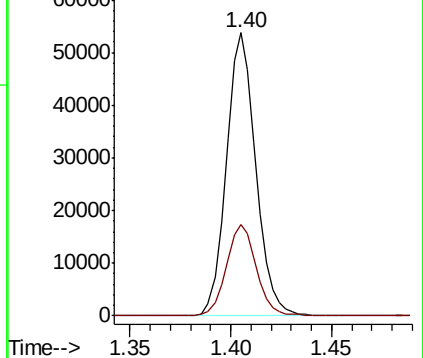
62 100

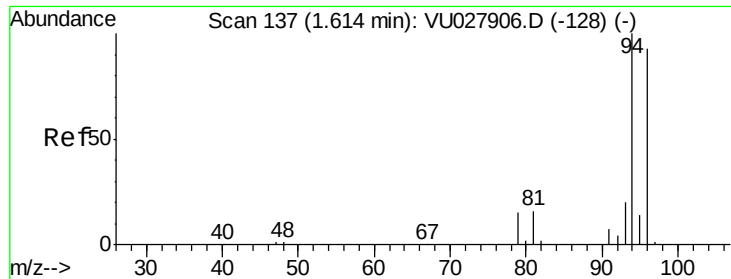
64 32.1 25.2 37.8



Abundance Ion 61.90 (61.60 to 62.60): VU027906.D (-62) (-)

Ion 63.90 (63.60 to 64.60): VU028041.D (-1) (-)





#5

Bromomethane

Concen: 25.965 ug/l

RT: 1.63 min Scan# 141

Delta R.T. 0.01 min

Lab File: VU028041.D

Acq: 09 Nov 2018 13:50

Instrument :

MSVOA_U

ClientSampleId :

VU1109WBSD01

Tot Ion: 94 Resp: 26888

Ion Ratio Lower Upper

94 100

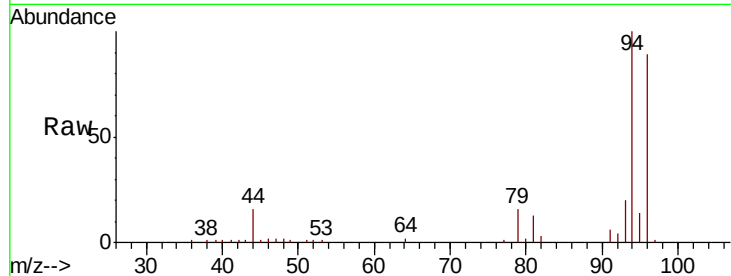
96 89.3 74.8 112.2

Manual Integrations

APPROVED

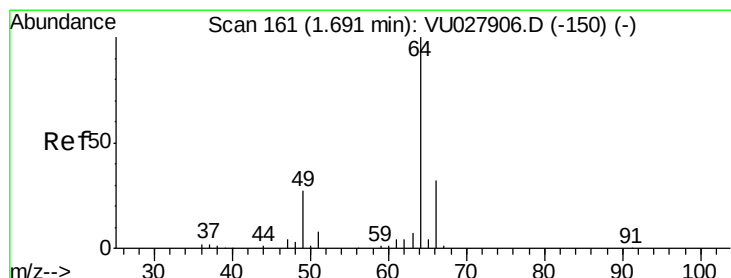
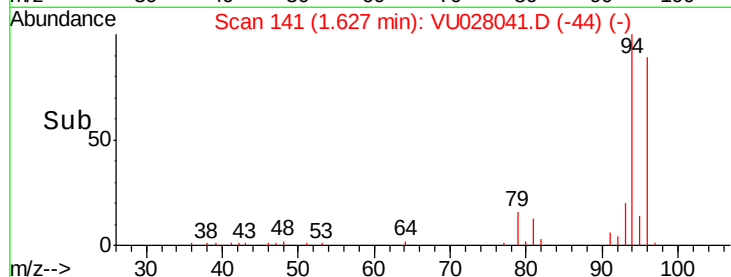
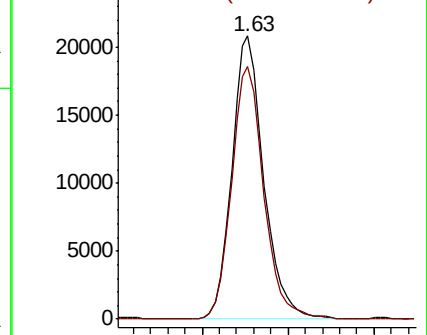
MMDadoda

11/12/2018 12:01:56 PM



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: 20.570 ug/l

RT: 1.70 min Scan# 164

Delta R.T. 0.01 min

Lab File: VU028041.D

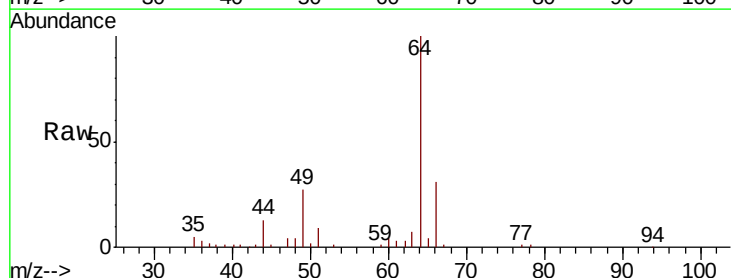
Acq: 09 Nov 2018 13:50

Tgt Ion: 64 Resp: 32812

Ion Ratio Lower Upper

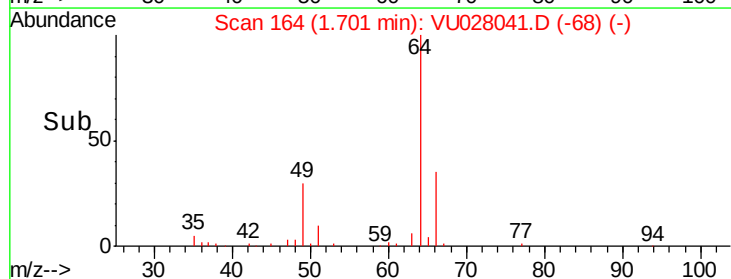
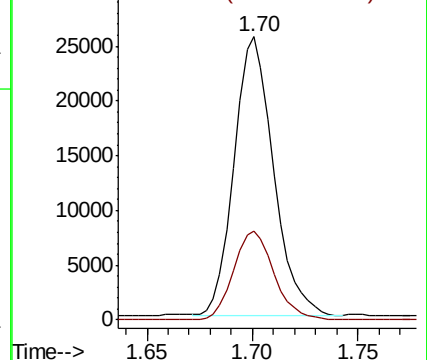
64 100

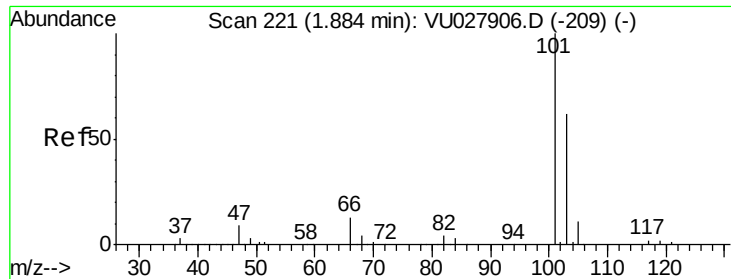
66 32.0 25.9 38.9



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0





#7

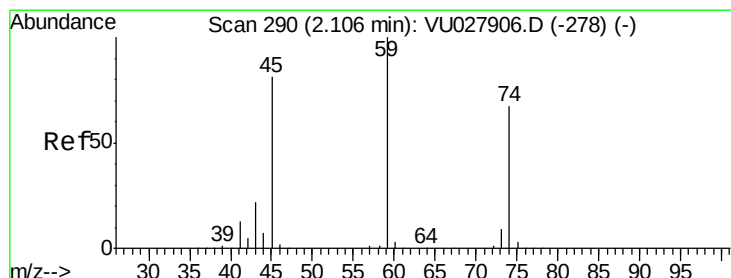
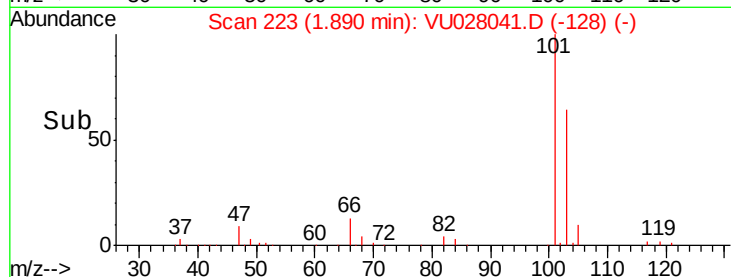
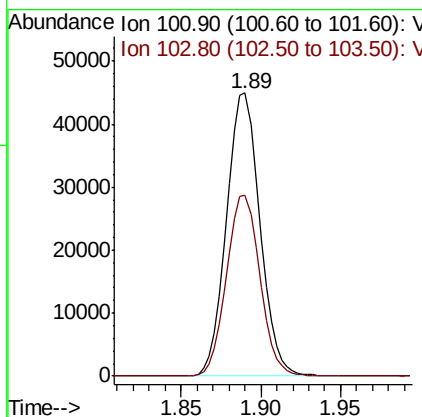
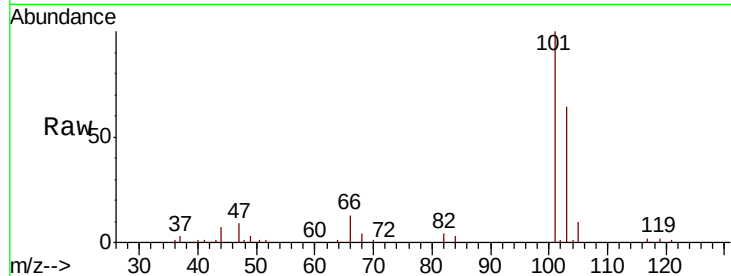
Trichlorofluoromethane
Concen: 19.945 ug/l
RT: 1.89 min Scan# 223
Delta R.T. 0.01 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBSD01

Tot Ion:101 Resp: 63797
Ion Ratio Lower Upper
101 100
103 64.0 49.4 74.2

Manual Integrations
APPROVED

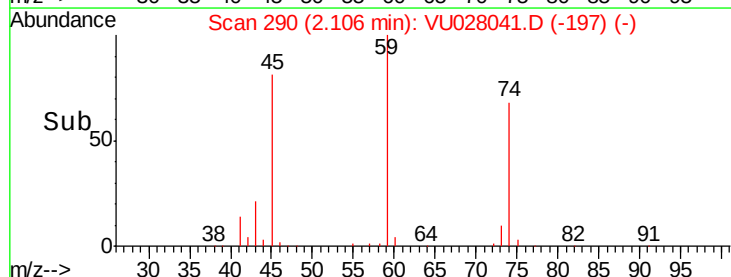
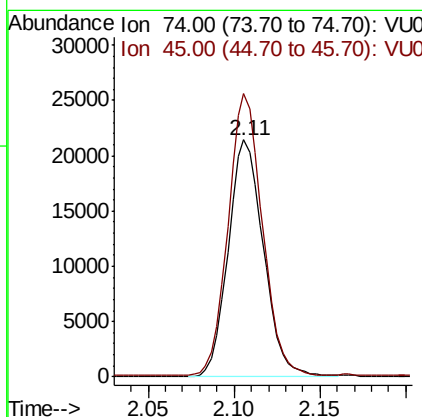
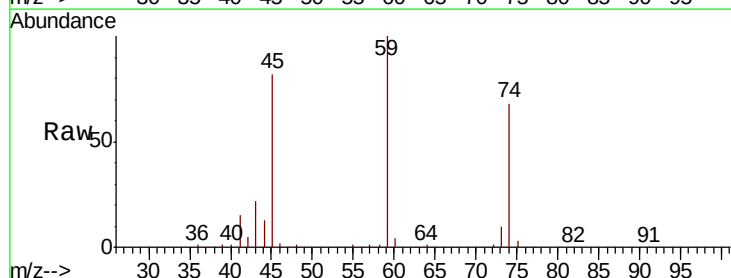
MMDadoda
11/12/2018 12:01:56 PM

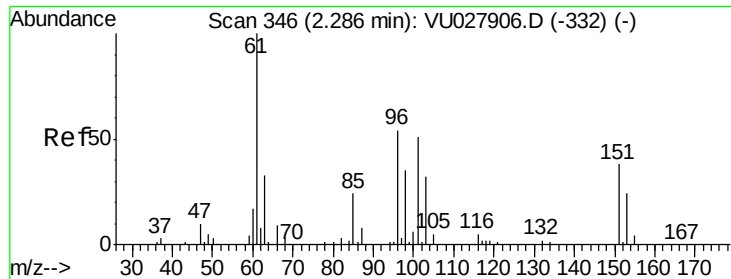


#8

Diethyl Ether
Concen: 22.494 ug/l
RT: 2.11 min Scan# 290
Delta R.T. -0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Tgt Ion: 74 Resp: 30807
Ion Ratio Lower Upper
74 100
45 114.9 60.5 181.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.692 ug/l

RT: 2.29 min Scan# 347

Delta R.T. 0.00 min

Lab File: VU028041.D

Acq: 09 Nov 2018 13:50

Instrument :

MSVOA_U

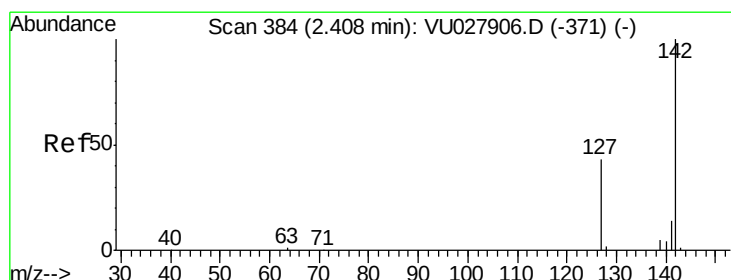
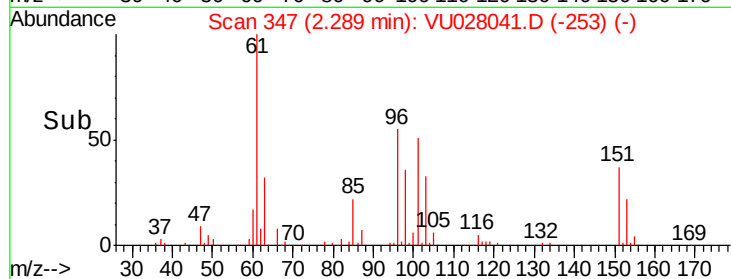
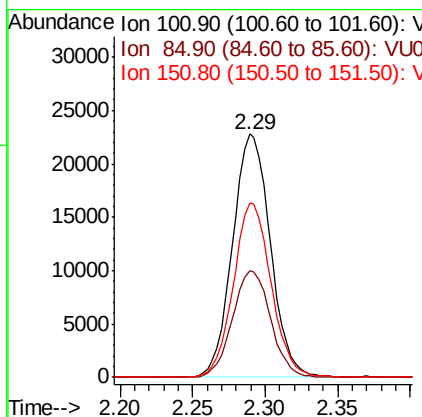
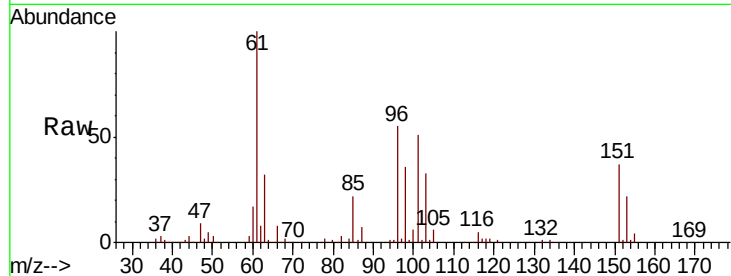
ClientSampleId :

VU1109WBSD01

Tot Ion:	101	Resp:	41218
Ion Ratio	Lower	Upper	
101	100		
85	44.1	36.9	55.3
151	71.4	58.0	87.0

Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:01:56 PM



#10

Methyl Iodide

Concen: 22.722 ug/l

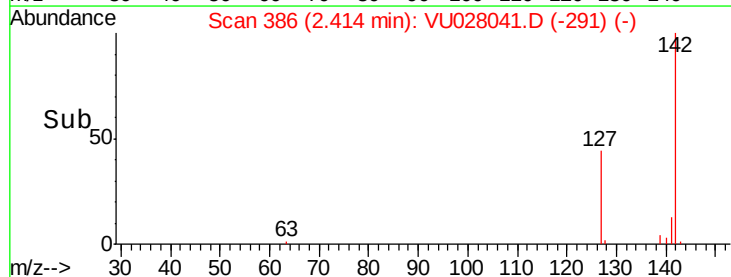
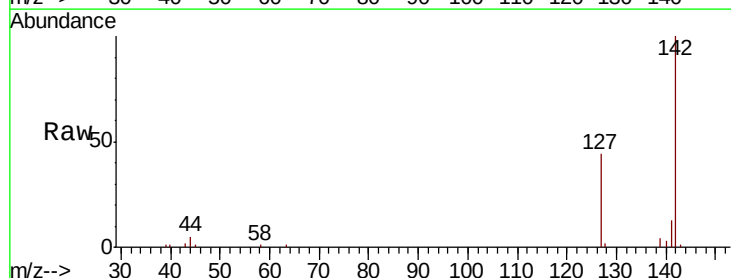
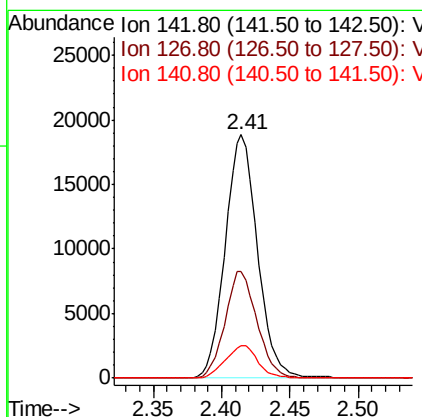
RT: 2.41 min Scan# 386

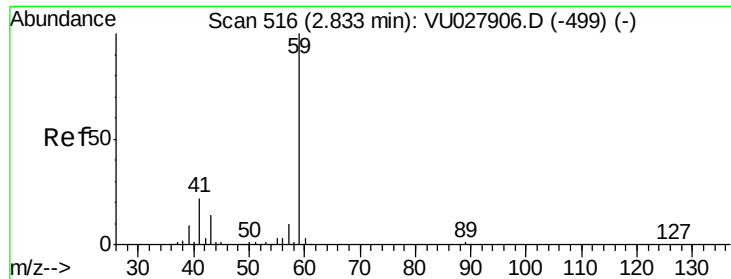
Delta R.T. 0.01 min

Lab File: VU028041.D

Acq: 09 Nov 2018 13:50

Tgt Ion:	142	Resp:	30908
Ion Ratio	Lower	Upper	
142	100		
127	43.1	35.2	52.8
141	13.4	11.8	17.8





#11

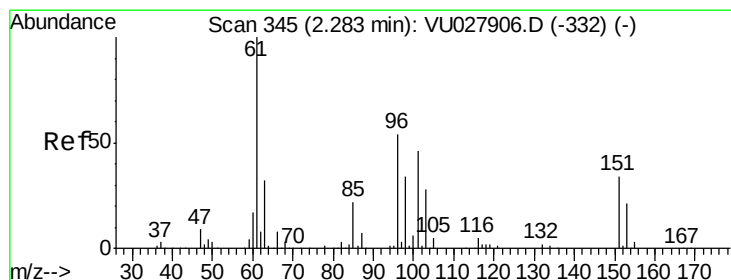
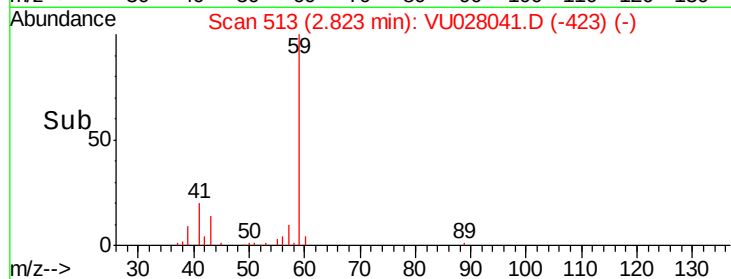
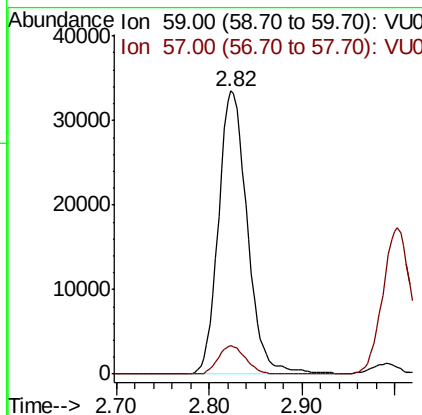
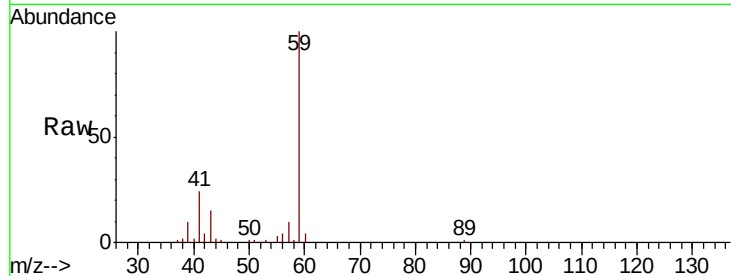
Tert butyl alcohol
Concen: 101.302 ug/l
RT: 2.82 min Scan# 513
Delta R.T. -0.01 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBSD01

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.4	7.8	11.8

Manual Integrations
APPROVED

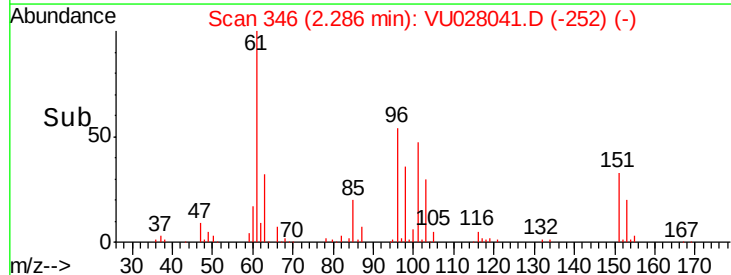
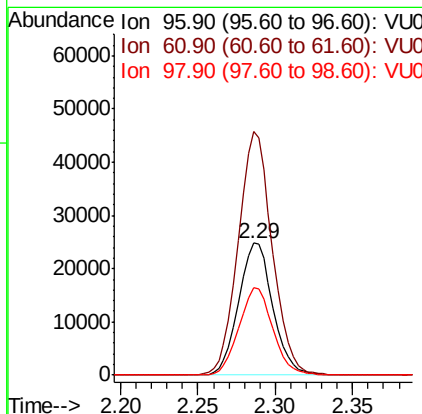
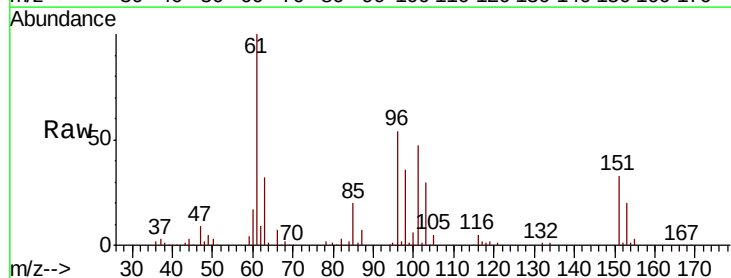
MMDadoda
11/12/2018 12:01:56 PM

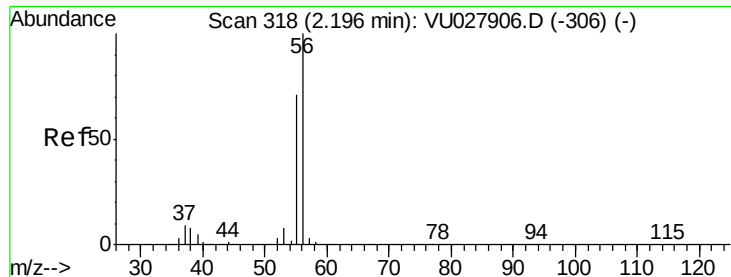


#12

1,1-Dichloroethene
Concen: 20.030 ug/l
RT: 2.29 min Scan# 346
Delta R.T. 0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Tgt Ion	Ratio	Lower	Upper
96	100		
61	184.9	149.3	223.9
98	66.0	50.6	75.8





#13

Acrolein

Concen: 75.394 ug/l

RT: 2.20 min Scan# 318

Delta R.T. 0.00 min

Lab File: VU028041.D

Acq: 09 Nov 2018 13:50

Instrument :

MSVOA_U

ClientSampleId :

VU1109WBSD01

Tot Ion: 56 Resp: 21056

Ion Ratio Lower Upper

56 100

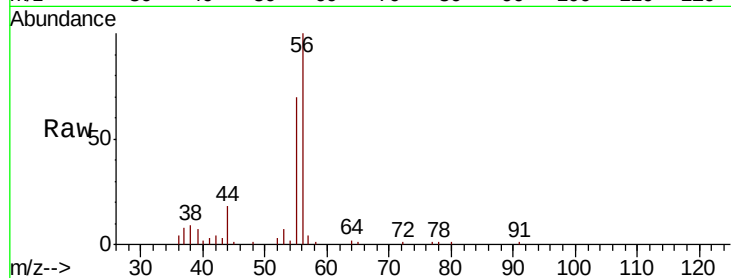
55 69.1 56.2 84.4

Manual Integrations

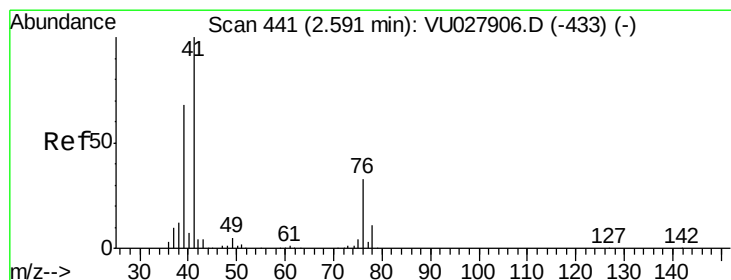
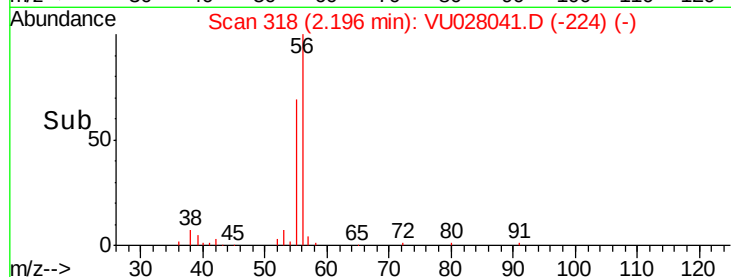
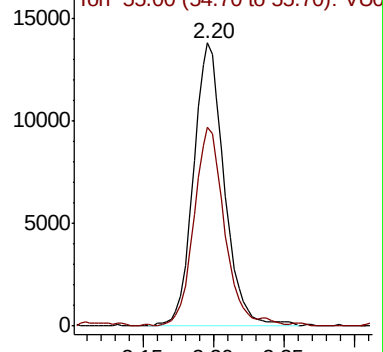
APPROVED

MMDadoda

11/12/2018 12:01:56 PM



Abundance Ion 56.00 (55.70 to 56.70): VU027906.D (-306) (-)



#14

Allyl chloride

Concen: 19.234 ug/l

RT: 2.60 min Scan# 443

Delta R.T. 0.01 min

Lab File: VU028041.D

Acq: 09 Nov 2018 13:50

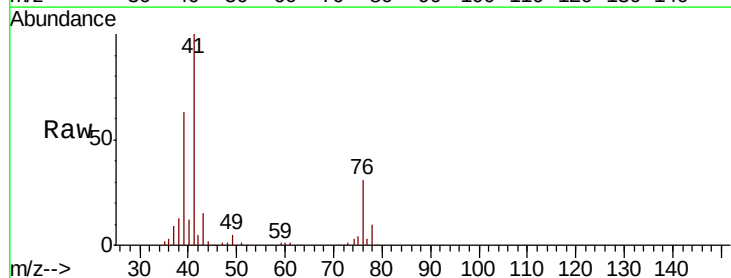
Tgt Ion: 41 Resp: 89410

Ion Ratio Lower Upper

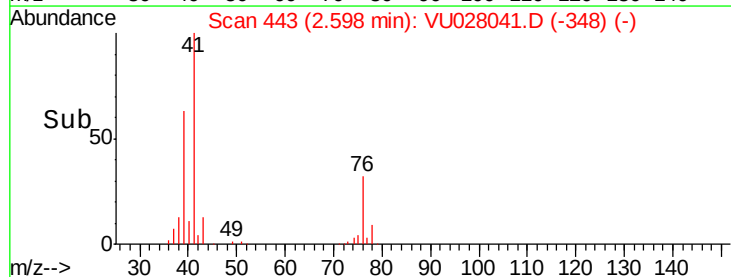
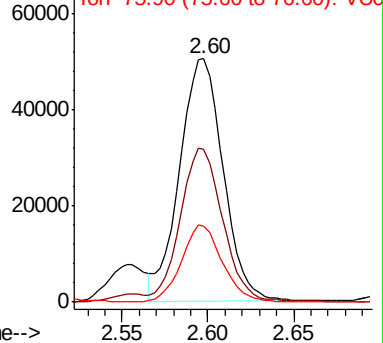
41 100

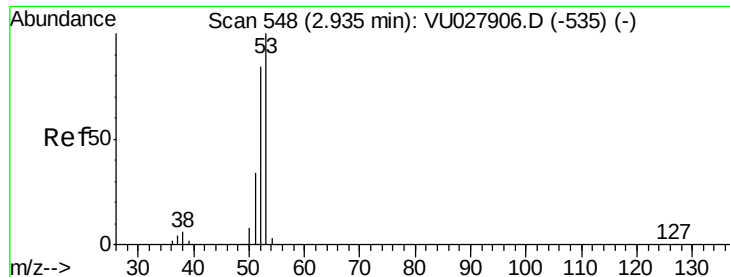
39 60.9 51.9 77.9

76 30.0 23.8 35.6



Abundance Ion 41.00 (40.70 to 41.70): VU027906.D (-433) (-)





#15

Acrylonitrile

Concen: 105.583 ug/l

RT: 2.94 min Scan# 548

Delta R.T. -0.00 min

Lab File: VU028041.D

Acq: 09 Nov 2018 13:50

Instrument :

MSVOA_U

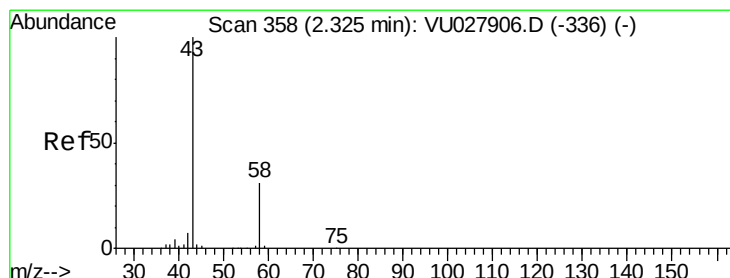
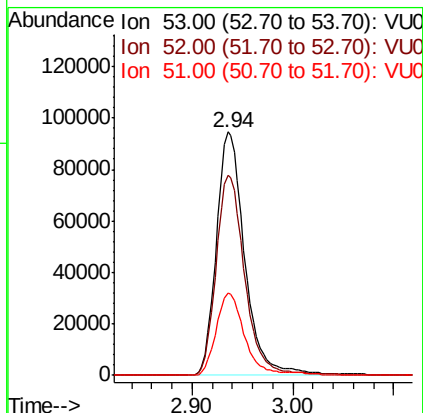
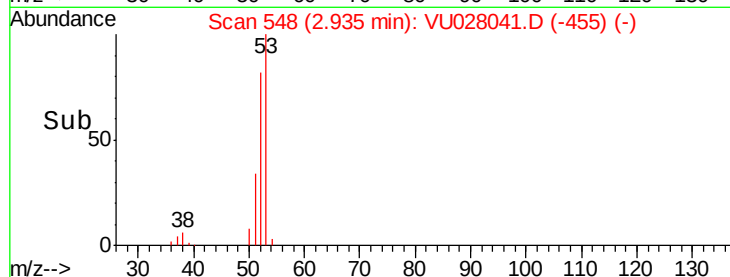
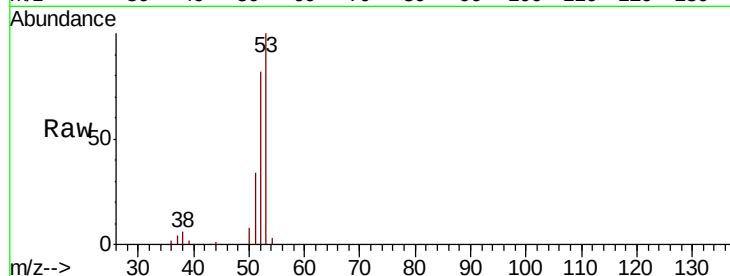
ClientSampleId :

VU1109WBSD01

Tot Ion:	53	Resp:	185255
Ion Ratio	Lower	Upper	
53	100		
52	82.5	66.2	99.2
51	33.6	27.0	40.4

Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:01:56 PM



#16

Acetone

Concen: 111.824 ug/l

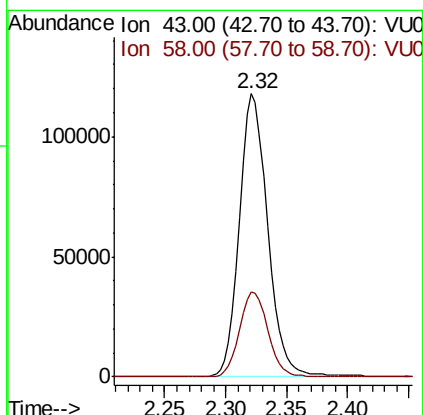
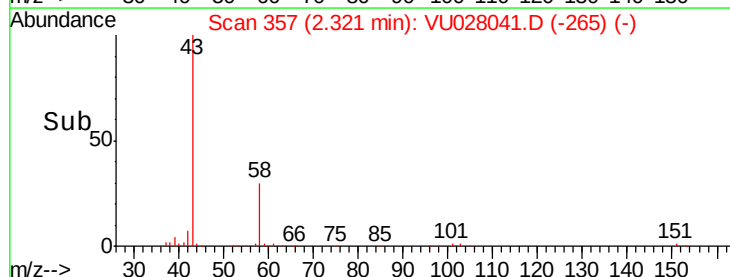
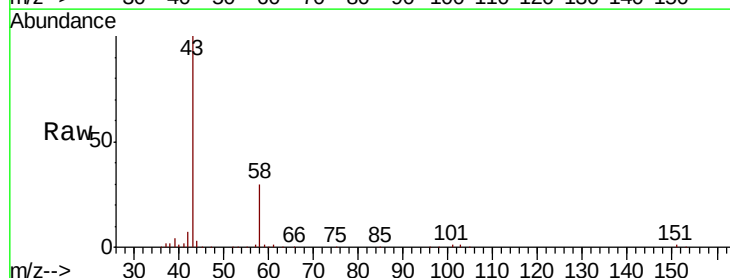
RT: 2.32 min Scan# 357

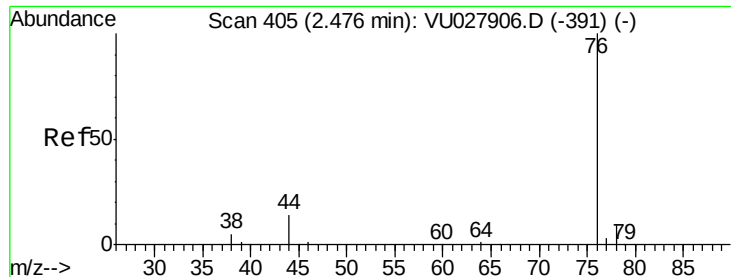
Delta R.T. -0.00 min

Lab File: VU028041.D

Acq: 09 Nov 2018 13:50

Tgt Ion:	43	Resp:	187197
Ion Ratio	Lower	Upper	
43	100		
58	29.9	24.6	37.0





#17

Carbon Disulfide

Concen: 18.901 ug/l

RT: 2.48 min Scan# 407

Delta R.T. 0.01 min

Lab File: VU028041.D

Acq: 09 Nov 2018 13:50

Instrument :

MSVOA_U

ClientSampleId :

VU1109WBSD01

Tot Ion: 76 Resp: 117504

Ion Ratio Lower Upper

76 100

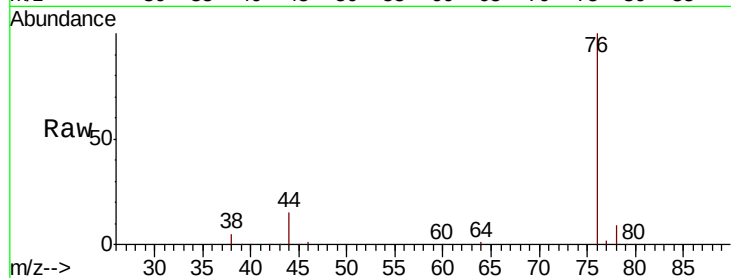
78 9.0 7.4 11.0

Manual Integrations

APPROVED

MMDadoda

11/12/2018 12:01:56 PM



Abundance Ion 75.90 (75.60 to 76.60): VU027906.D (-391) (-)

Ion 77.90 (77.60 to 78.60): VU028041.D (-312) (-)

2.48

80000

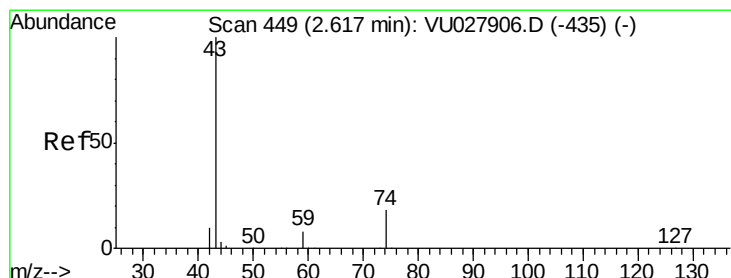
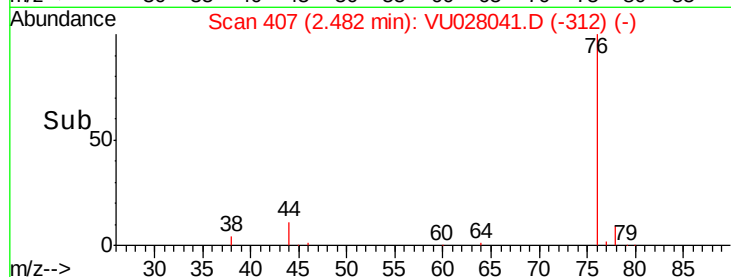
60000

40000

20000

0

Time-->



#18

Methyl Acetate

Concen: 20.534 ug/l

RT: 2.62 min Scan# 449

Delta R.T. -0.00 min

Lab File: VU028041.D

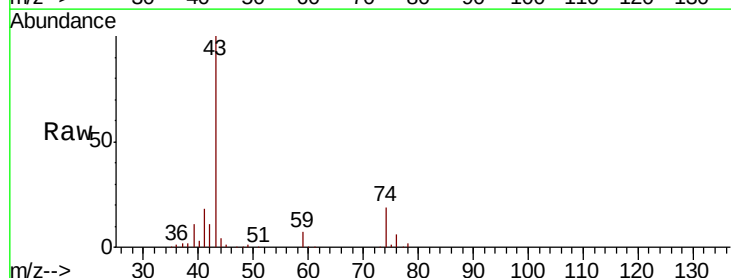
Acq: 09 Nov 2018 13:50

Tgt Ion: 43 Resp: 94557

Ion Ratio Lower Upper

43 100

74 19.9 14.9 22.3



Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-435) (-)

Ion 74.00 (73.70 to 74.70): VU028041.D (-356) (-)

2.62

60000

50000

40000

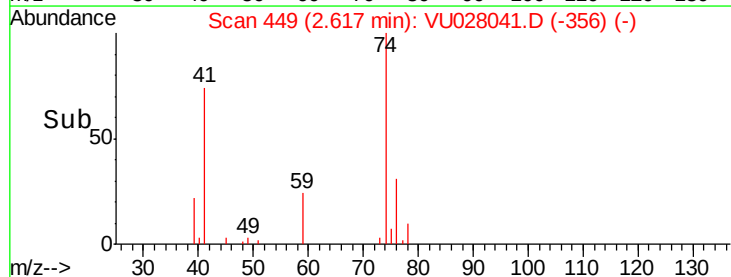
30000

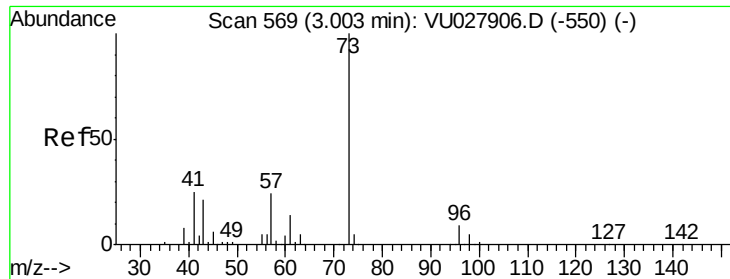
20000

10000

0

Time-->





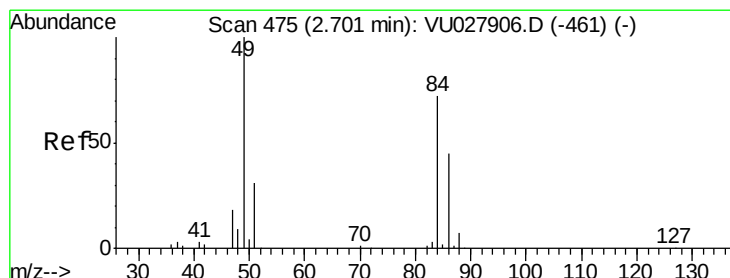
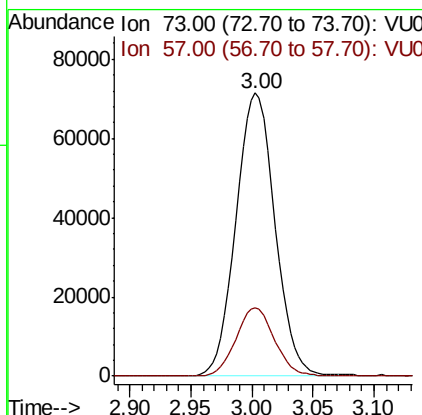
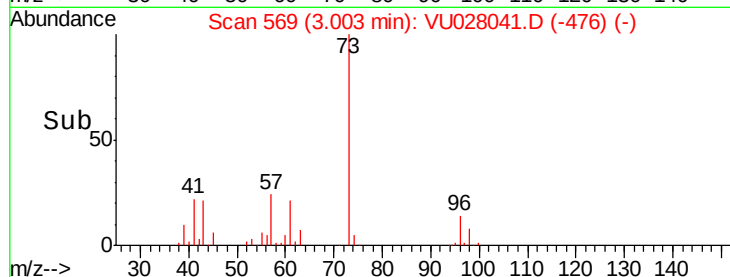
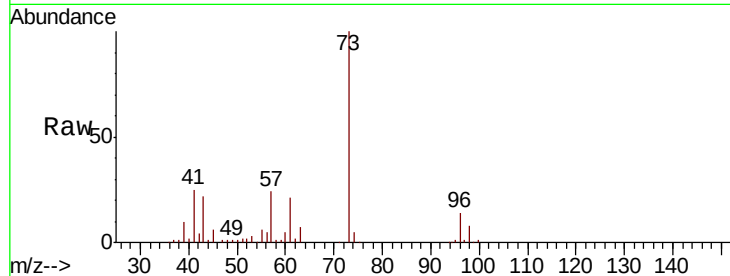
#19
Methyl tert-butyl Ether
Concen: 20.610 ug/l
RT: 3.00 min Scan# 569
Delta R.T. -0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBSD01

Tot Ion	Ratio	Lower	Upper
73	100		
57	24.2	19.3	28.9

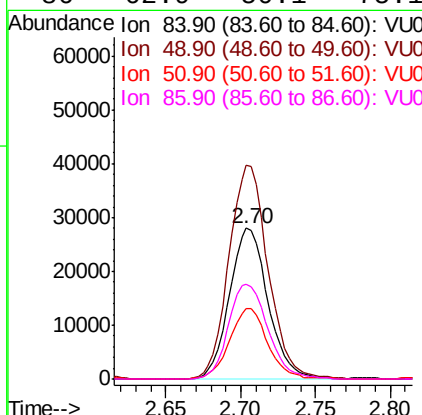
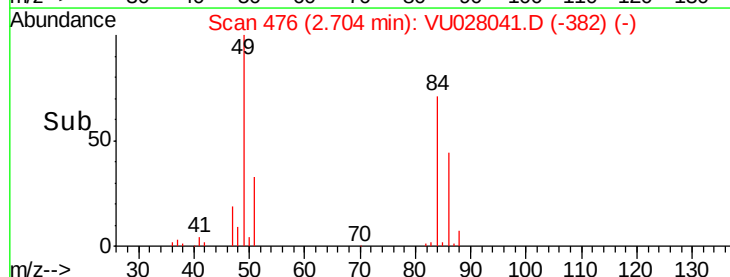
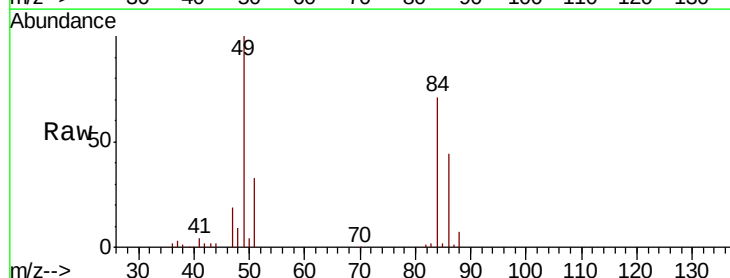
Manual Integrations
APPROVED

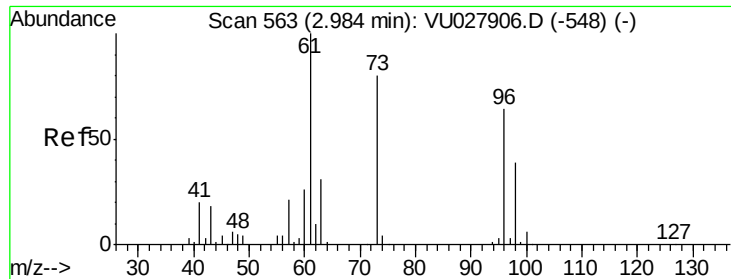
MMDadoda
11/12/2018 12:01:56 PM



#20
Methylene Chloride
Concen: 20.564 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Tgt Ion	Ratio	Lower	Upper
84	100		
49	141.0	111.6	167.4
51	46.7	34.8	52.2
86	62.9	50.1	75.1





#21

trans-1,2-Dichloroethene

Concen: 19.827 ug/l

RT: 2.99 min Scan# 564

Delta R.T. 0.00 min

Lab File: VU028041.D

Acq: 09 Nov 2018 13:50

Instrument :

MSVOA_U

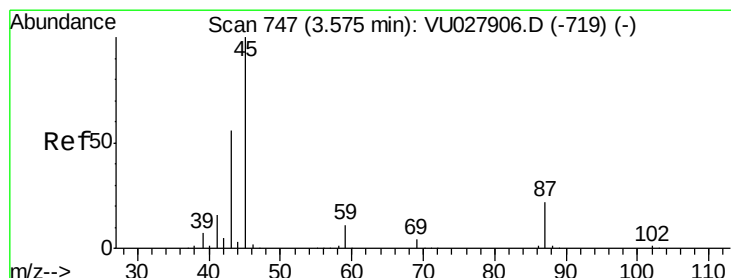
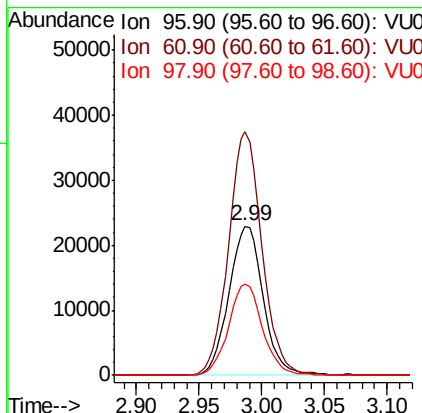
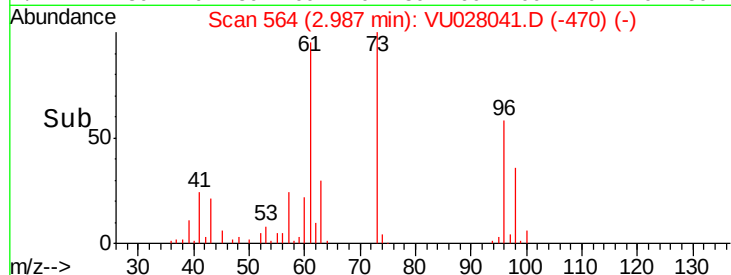
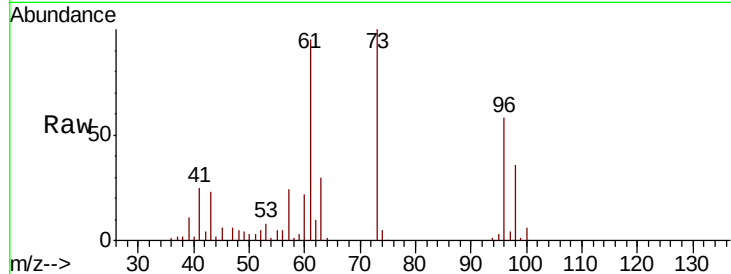
ClientSampleId :

VU1109WBSD01

Tot Ion:	96	Resp:	43519
Ion	Ratio	Lower	Upper
96	100		
61	163.4	125.0	187.6
98	61.1	48.2	72.4

Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:01:56 PM



#22

Diisopropyl ether

Concen: 20.529 ug/l

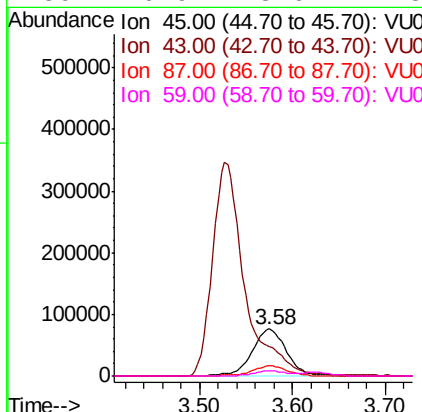
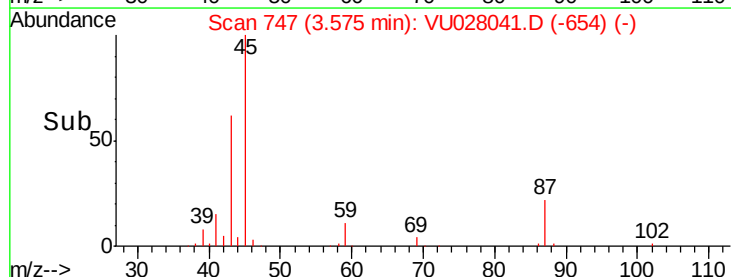
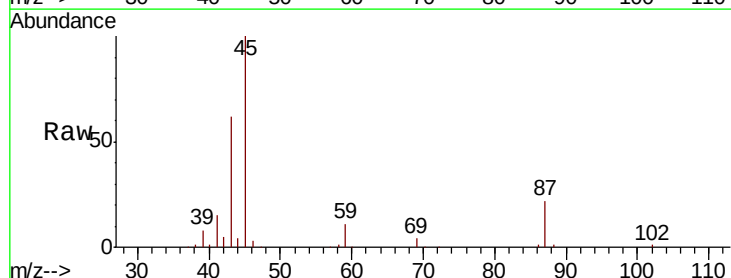
RT: 3.58 min Scan# 747

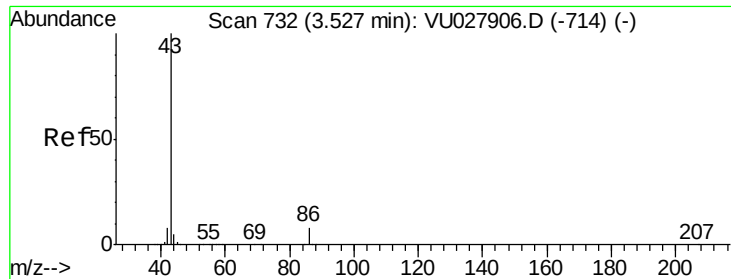
Delta R.T. -0.00 min

Lab File: VU028041.D

Acq: 09 Nov 2018 13:50

Tgt Ion:	45	Resp:	197015
Ion	Ratio	Lower	Upper
45	100		
43	60.7	45.0	67.6
87	22.0	17.9	26.9
59	10.9	8.6	12.8





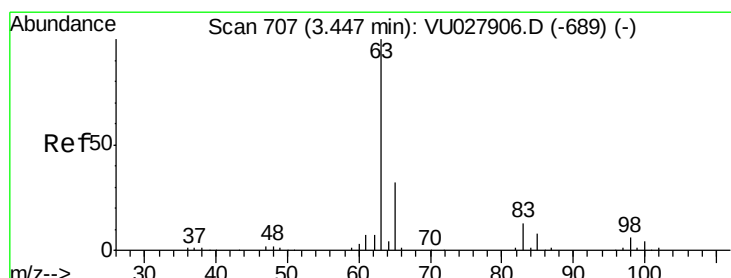
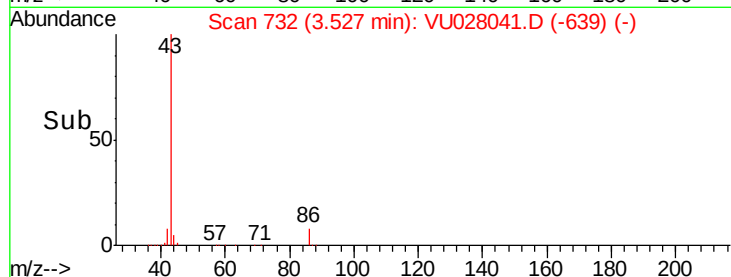
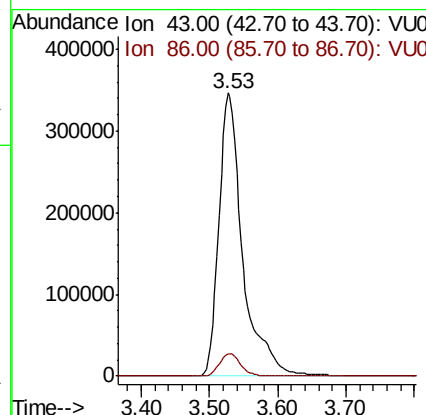
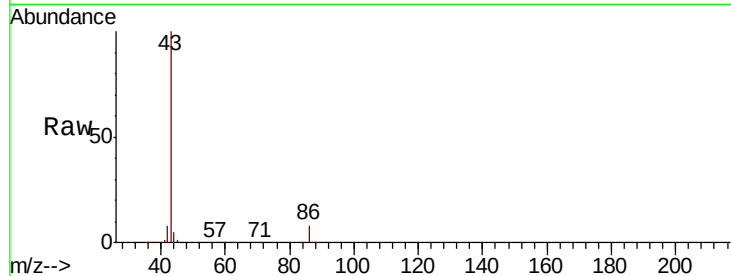
#23
 Vinyl Acetate
 Concen: 102.156 ug/l
 RT: 3.53 min Scan# 732
 Delta R.T. -0.00 min
 Lab File: VU028041.D
 Acq: 09 Nov 2018 13:50

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1109WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
86	7.9	6.6	9.8

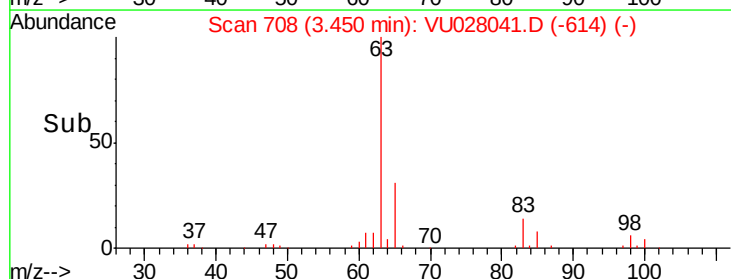
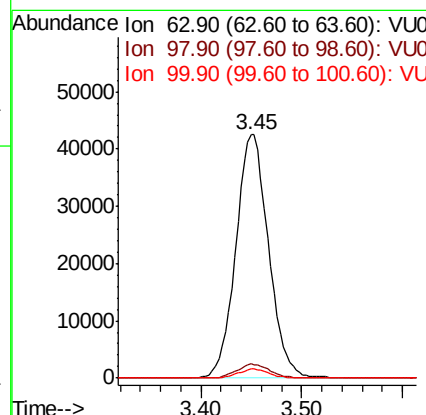
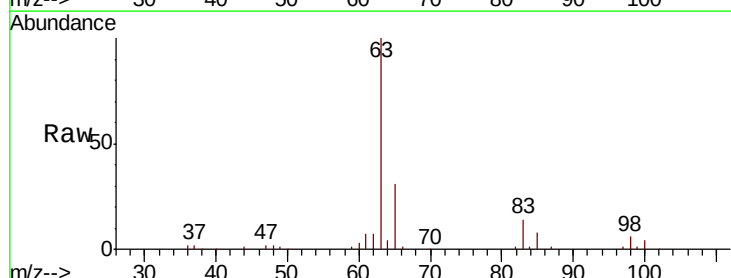
Manual Integrations
 APPROVED

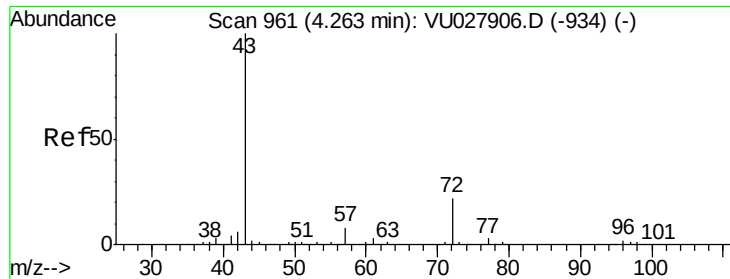
MMDadoda
 11/12/2018 12:01:56 PM



#24
 1,1-Dichloroethane
 Concen: 20.027 ug/l
 RT: 3.45 min Scan# 708
 Delta R.T. 0.00 min
 Lab File: VU028041.D
 Acq: 09 Nov 2018 13:50

Tgt Ion	Ratio	Lower	Upper
63	100		
98	5.7	2.9	8.6
100	3.6	2.0	6.0





#25

2-Butanone

Concen: 104.281 ug/l

RT: 4.26 min Scan# 961

Delta R.T. -0.00 min

Lab File: VU028041.D

Acq: 09 Nov 2018 13:50

Instrument :

MSVOA_U

ClientSampleId :

VU1109WBSD01

Tot Ion: 43 Resp: 277724

Ion Ratio Lower Upper

43 100

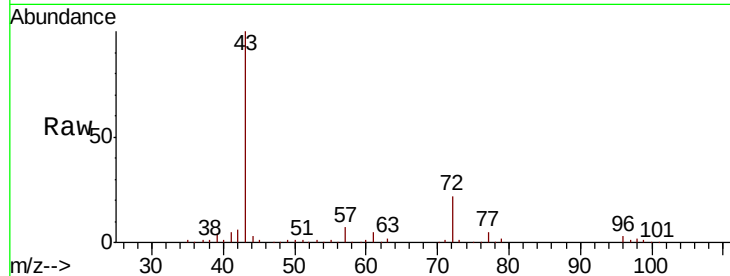
72 21.7 17.7 26.5

Manual Integrations

APPROVED

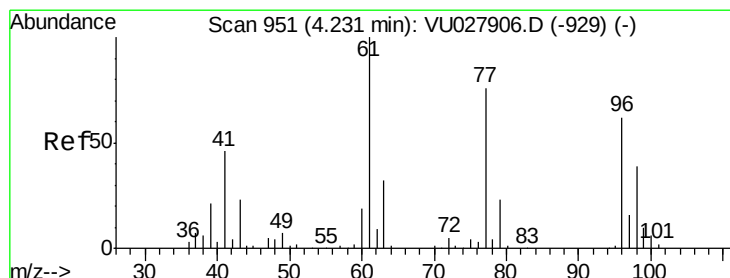
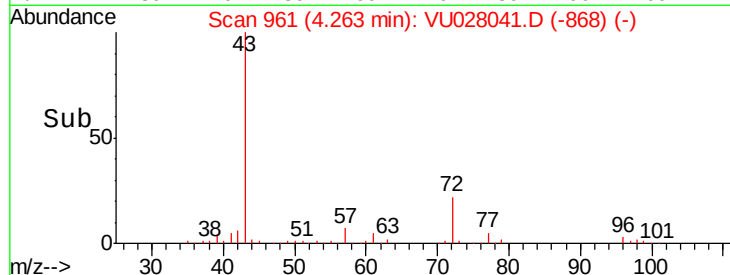
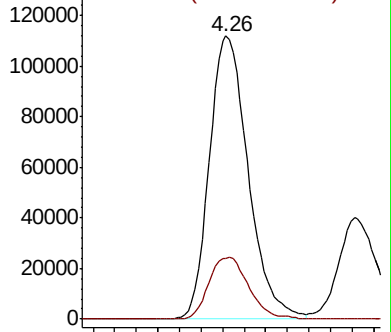
MMDadoda

11/12/2018 12:01:56 PM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0



#26

2,2-Dichloropropane

Concen: 20.669 ug/l

RT: 4.23 min Scan# 951

Delta R.T. -0.00 min

Lab File: VU028041.D

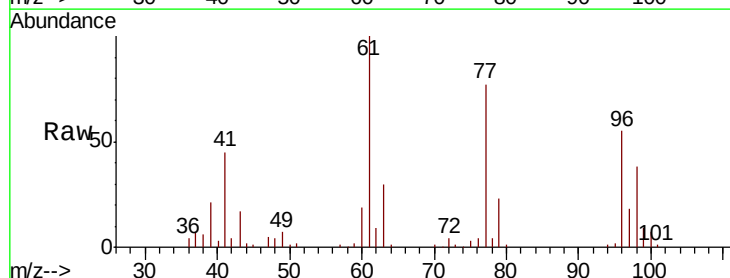
Acq: 09 Nov 2018 13:50

Tgt Ion: 77 Resp: 74146

Ion Ratio Lower Upper

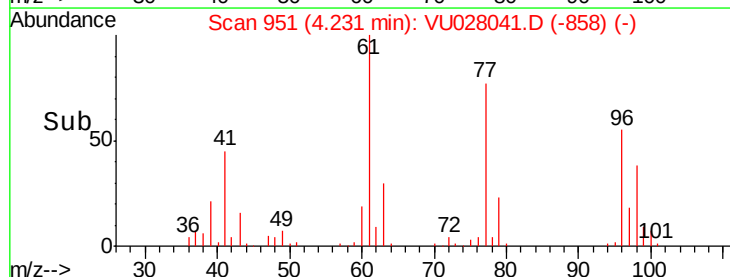
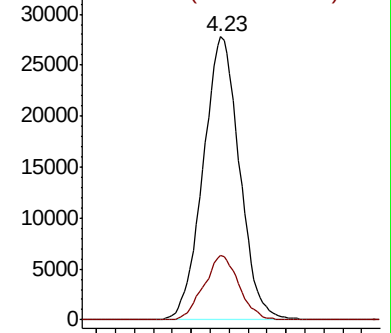
77 100

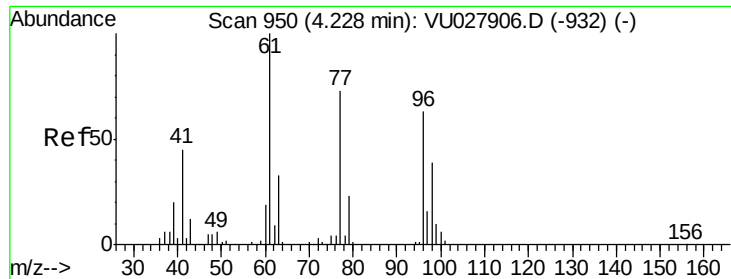
97 21.9 11.2 33.5



Abundance Ion 76.90 (76.60 to 77.60): VU0

Ion 96.90 (96.60 to 97.60): VU0





#27

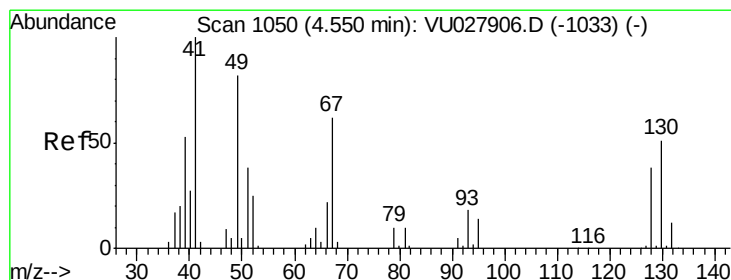
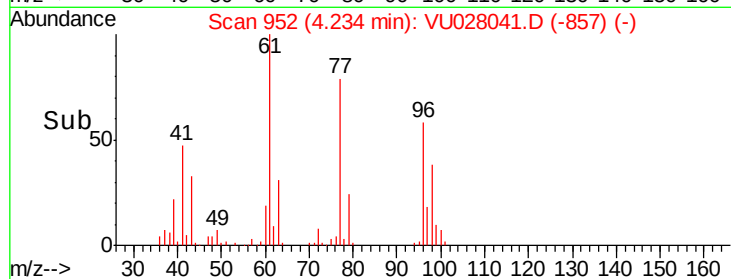
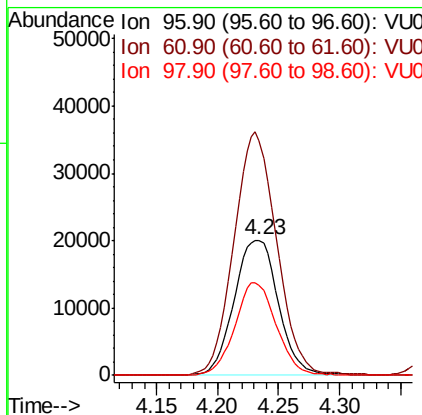
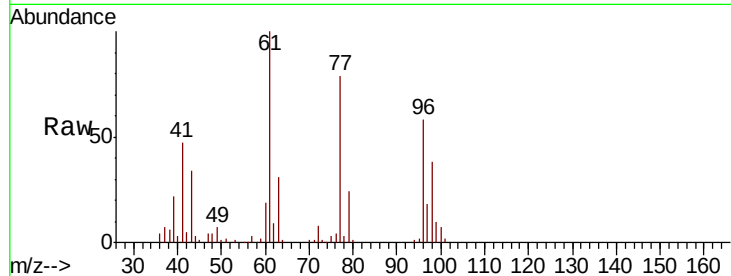
cis-1,2-Dichloroethene
Concen: 20.436 ug/l
RT: 4.23 min Scan# 952
Delta R.T. 0.01 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	174.4	0.0	329.6
98	64.2	0.0	127.2

Manual Integrations
APPROVED

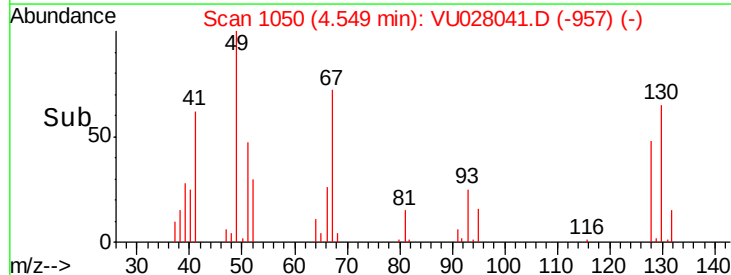
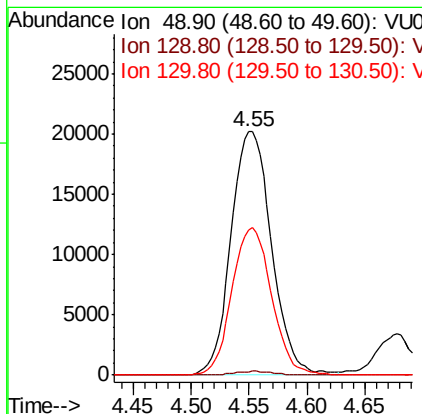
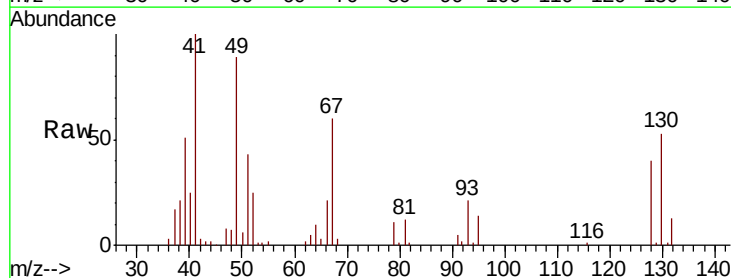
MMDadoda
11/12/2018 12:01:56 PM

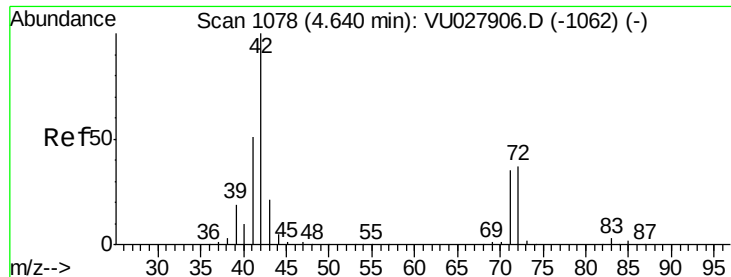


#28

Bromochloromethane
Concen: 21.947 ug/l
RT: 4.55 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	3.0
130	59.1	47.8	71.6





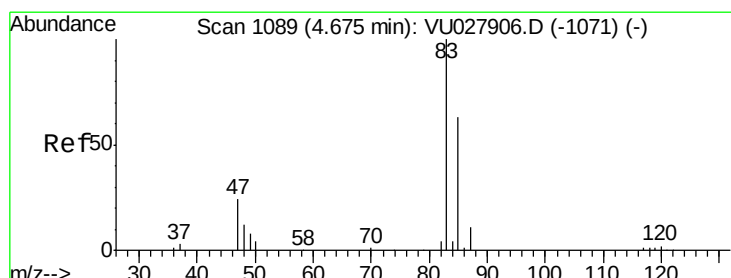
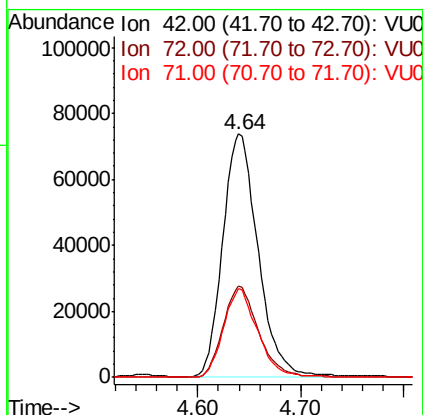
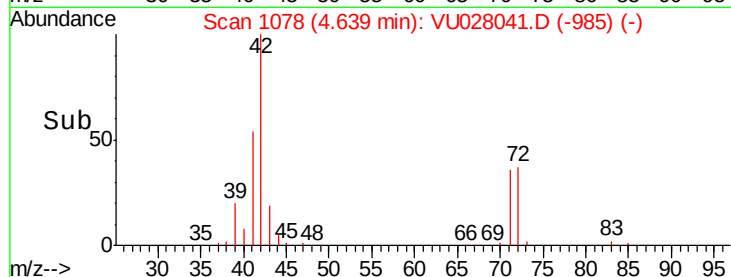
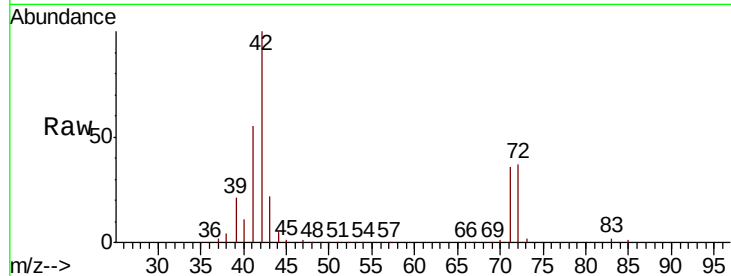
#29
Tetrahydrofuran
Concen: 98.381 ug/l
RT: 4.64 min Scan# 1078
Delta R.T. -0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.4	29.4	44.0
71	35.3	27.9	41.9

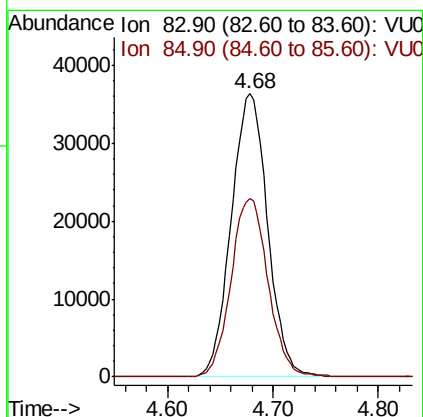
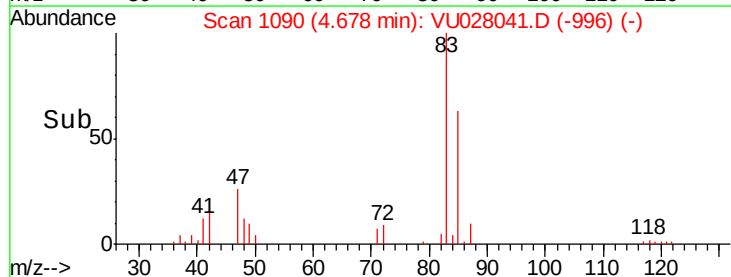
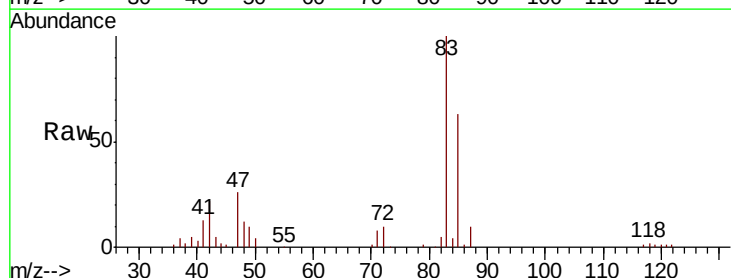
Manual Integrations
APPROVED

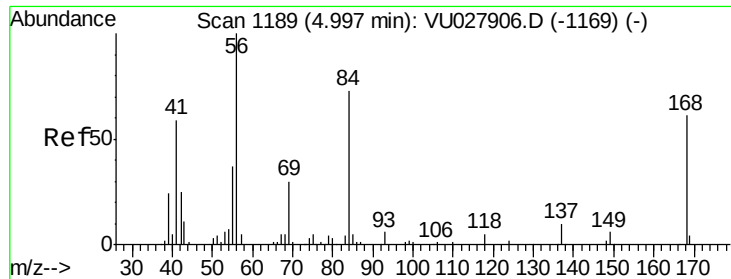
MMDadoda
11/12/2018 12:01:56 PM



#30
Chloroform
Concen: 19.885 ug/l
RT: 4.68 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.0	50.6	76.0





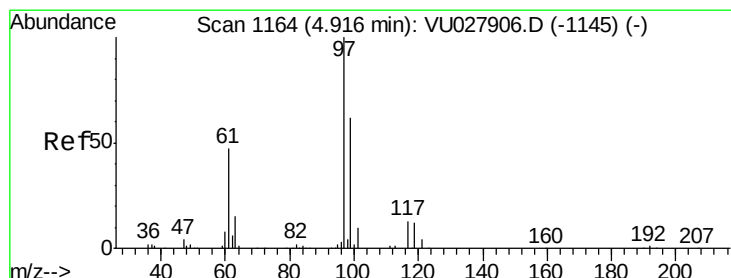
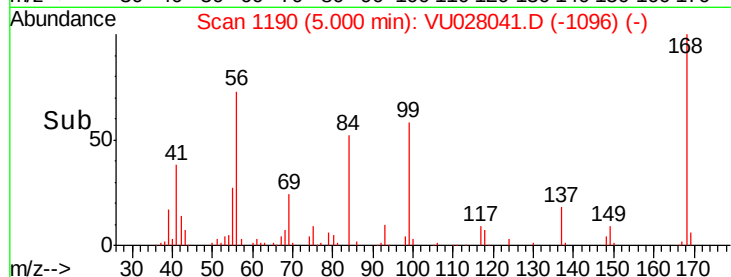
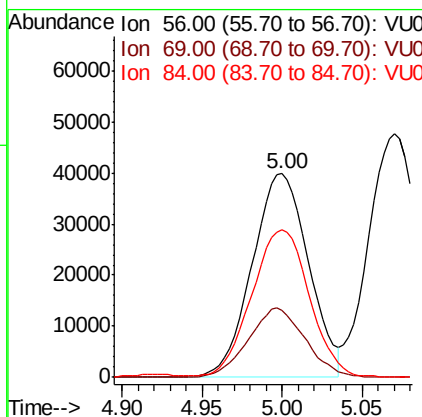
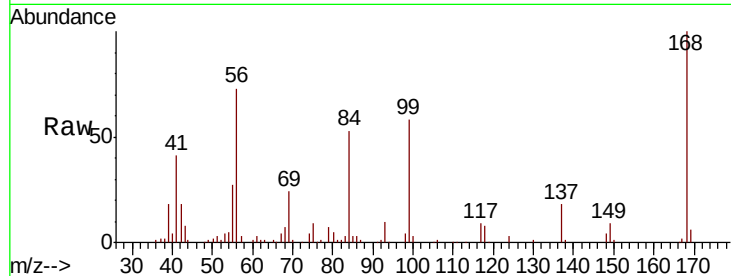
#31
Cyclohexane
Concen: 19.697 ug/l
RT: 5.00 min Scan# 1190
Delta R.T. 0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBSD01

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.9	23.7	35.5
84	72.1	58.2	87.4

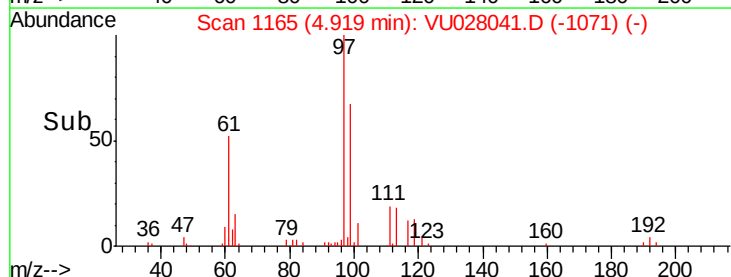
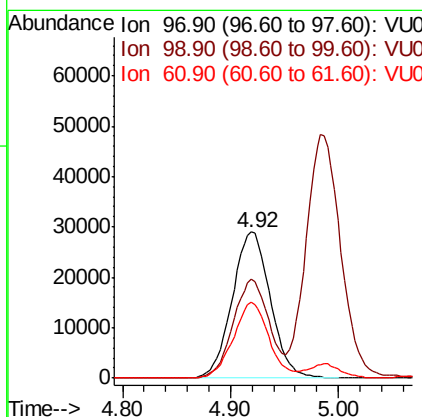
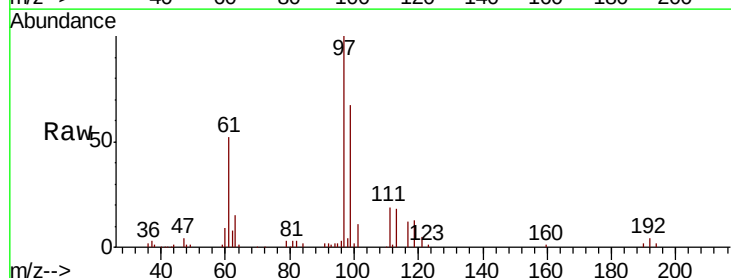
Manual Integrations
APPROVED

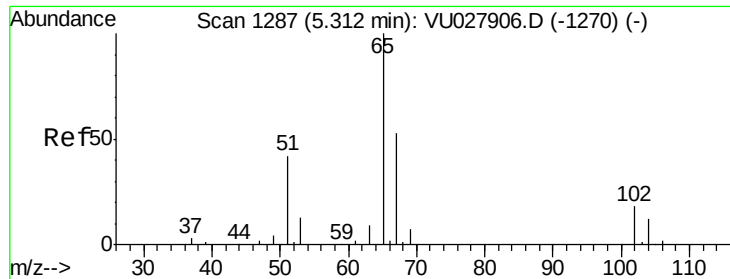
MMDadoda
11/12/2018 12:01:56 PM



#32
1,1,1-Trichloroethane
Concen: 20.425 ug/l
RT: 4.92 min Scan# 1165
Delta R.T. 0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.1	50.5	75.7
61	48.5	38.3	57.5





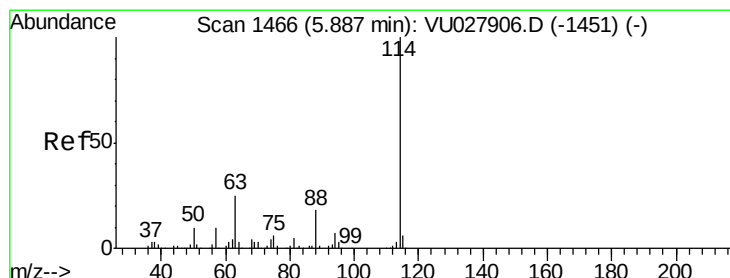
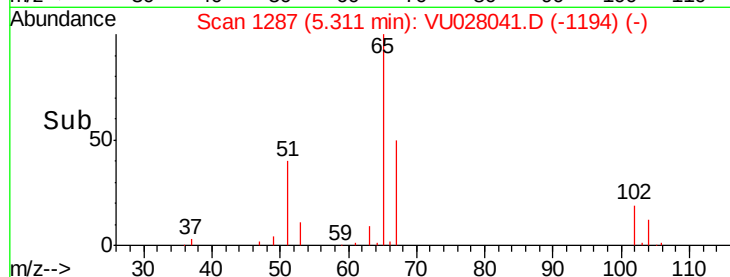
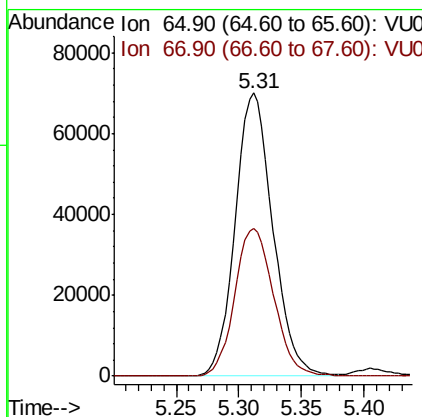
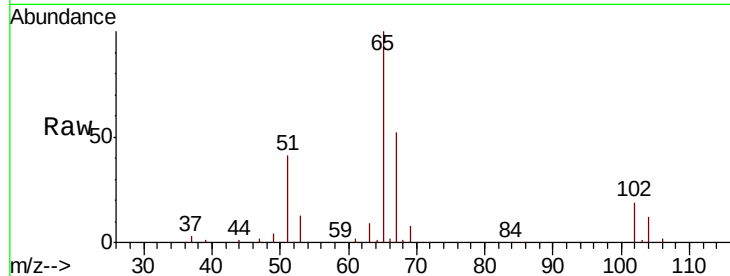
#33
 1,2-Dichloroethane-d4
 Concen: 54.247 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. -0.00 min
 Lab File: VU028041.D
 Acq: 09 Nov 2018 13:50

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1109WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	146365		
67	53.9	0.0	109.0	

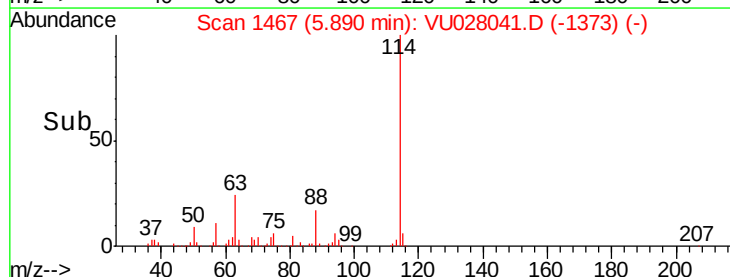
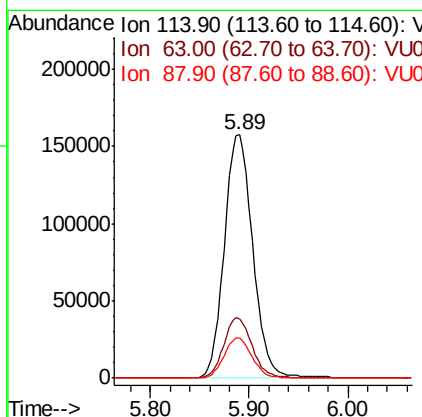
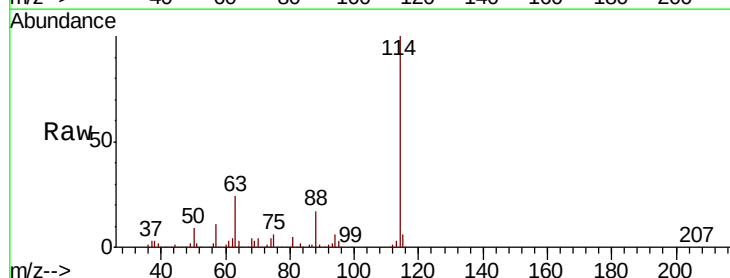
Manual Integrations
 APPROVED

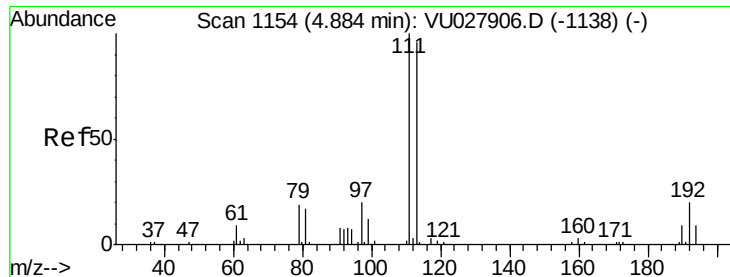
MMDadoda
 11/12/2018 12:01:56 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: VU028041.D
 Acq: 09 Nov 2018 13:50

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	317535		
63	24.4	0.0	50.8	
88	16.5	0.0	35.8	





#35

Dibromofluoromethane

Concen: 53.204 ug/l

RT: 4.89 min Scan# 1155

Delta R.T. 0.00 min

Lab File: VU028041.D

Acq: 09 Nov 2018 13:50

Instrument :

MSVOA_U

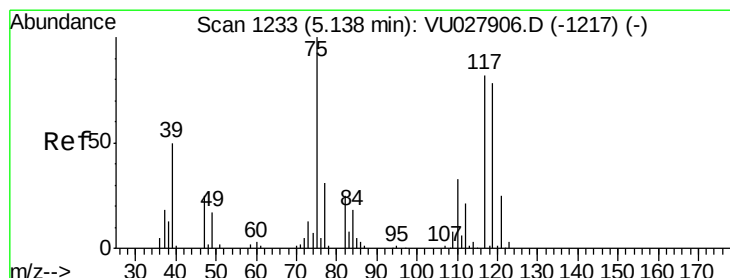
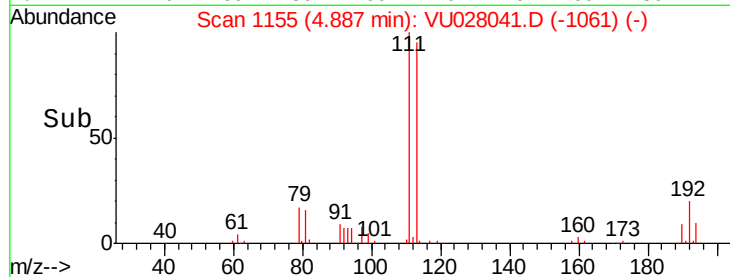
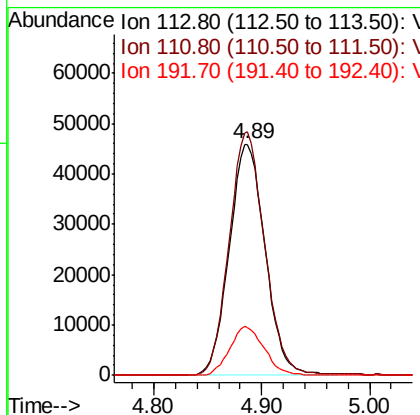
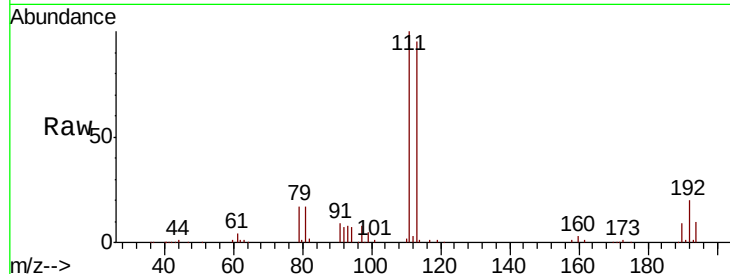
ClientSampleId :

VU1109WBSD01

Tot Ion:	113	Resp:	106520
Ion Ratio	Lower	Upper	
113	100		
111	103.9	83.0	124.6
192	20.3	15.6	23.4

Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:01:56 PM



#36

1,1-Dichloropropene

Concen: 19.532 ug/l

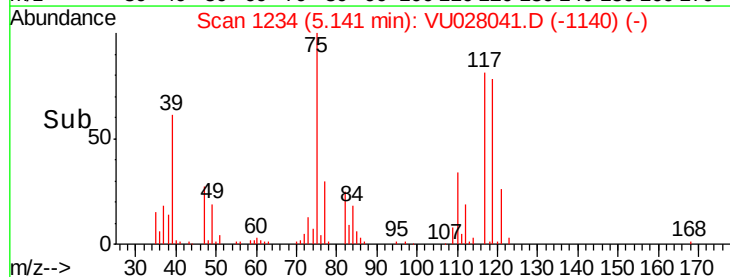
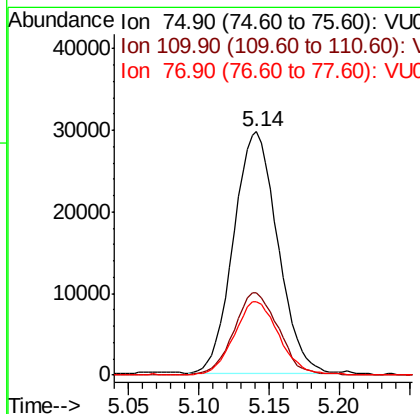
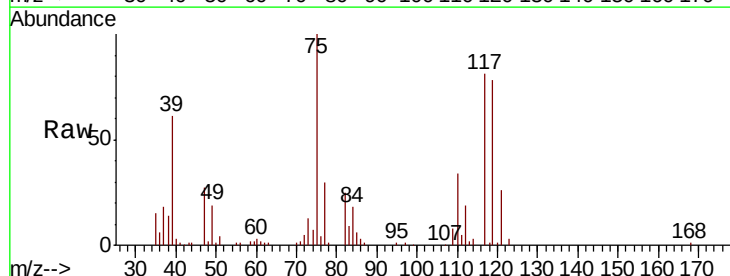
RT: 5.14 min Scan# 1234

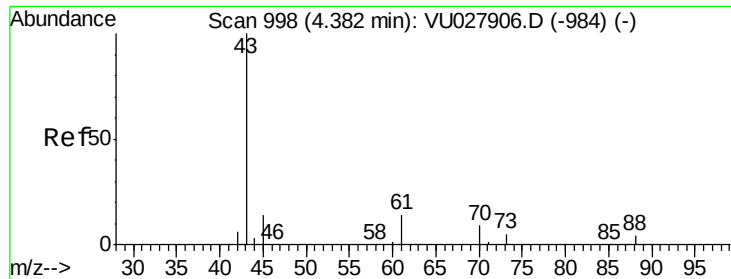
Delta R.T. 0.00 min

Lab File: VU028041.D

Acq: 09 Nov 2018 13:50

Tgt Ion:	75	Resp:	64955
Ion Ratio	Lower	Upper	
75	100		
110	34.6	16.5	49.5
77	31.0	24.9	37.3





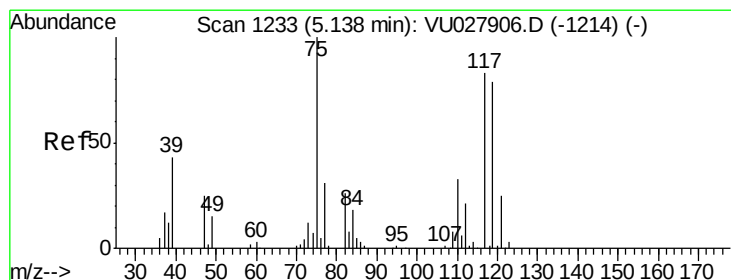
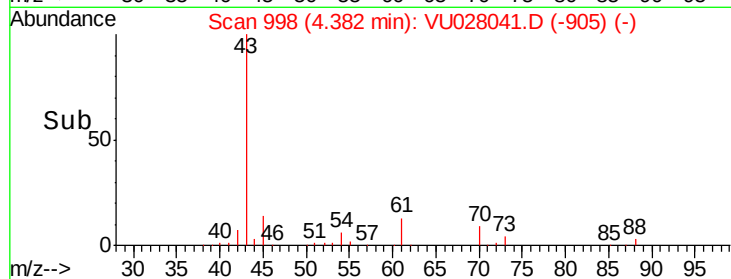
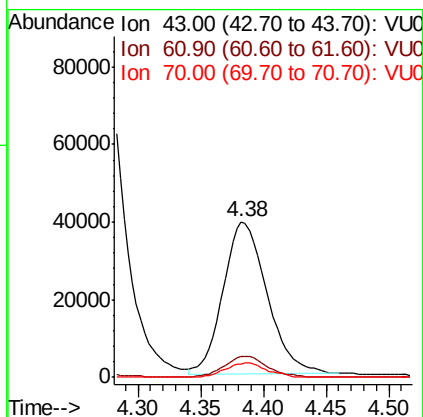
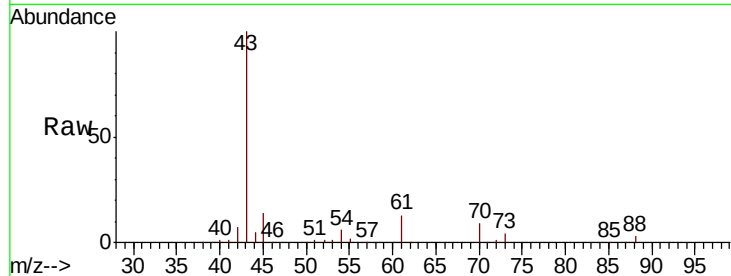
#37
Ethyl Acetate
Concen: 19.582 ug/l
RT: 4.38 min Scan# 998
Delta R.T. -0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBSD01

Tot Ion	43	Resp	95419
Ion Ratio	100	Lower	Upper
43	100		
61	13.9	10.3	15.5
70	9.0	7.0	10.6

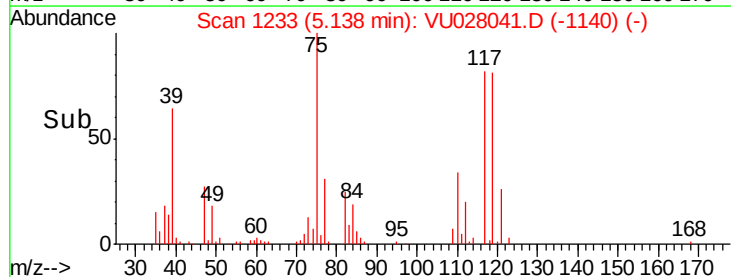
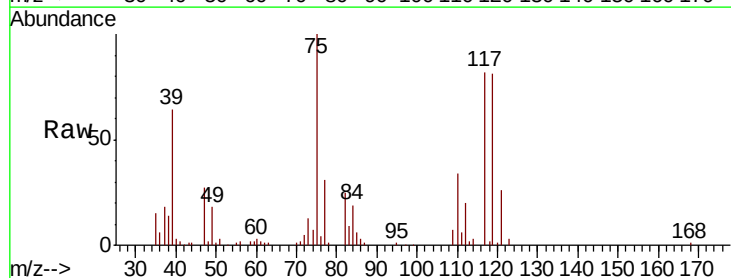
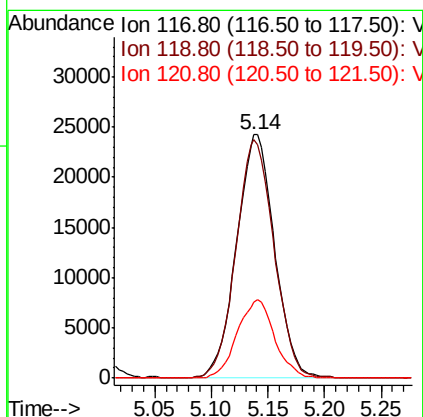
Manual Integrations
APPROVED

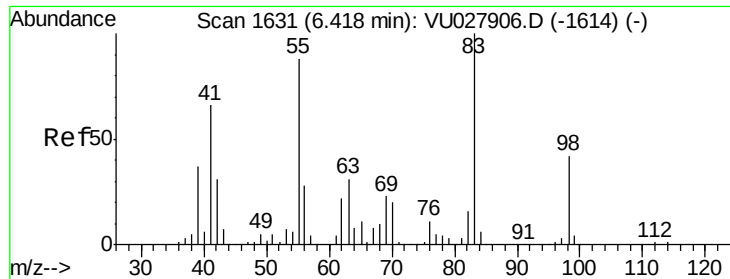
MMDadoda
11/12/2018 12:01:56 PM



#38
Carbon Tetrachloride
Concen: 19.162 ug/l
RT: 5.14 min Scan# 1233
Delta R.T. -0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Tgt Ion	117	Resp	56475
Ion Ratio	100	Lower	Upper
117	100		
119	98.2	76.0	114.0
121	31.4	24.5	36.7





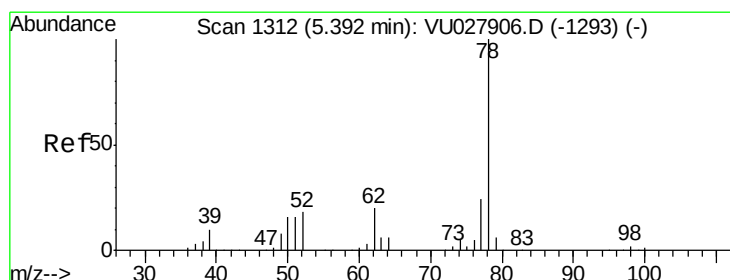
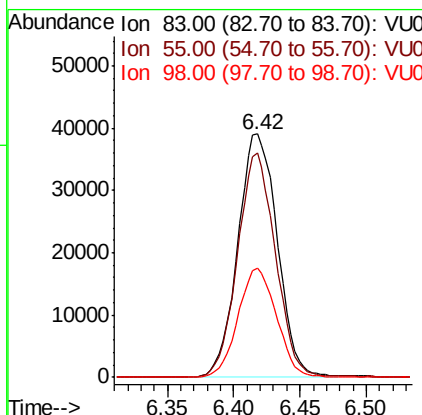
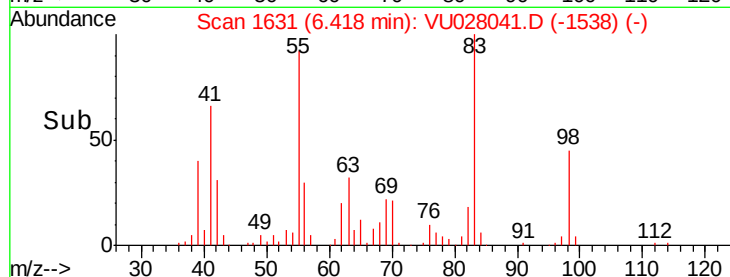
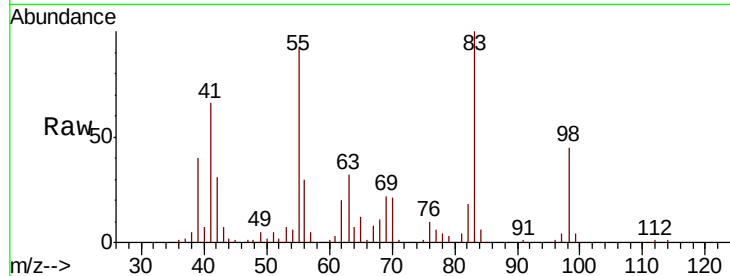
#39
Methylvlcyclohexane
Concen: 20.189 ug/l
RT: 6.42 min Scan# 1631
Delta R.T. -0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBSD01

Tot Ion	83.00	Resp	80979
Ion	Ratio	Lower	Upper
83	100		
55	92.2	70.3	105.5
98	45.0	34.0	51.0

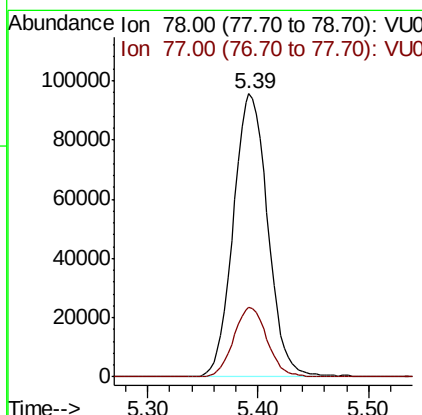
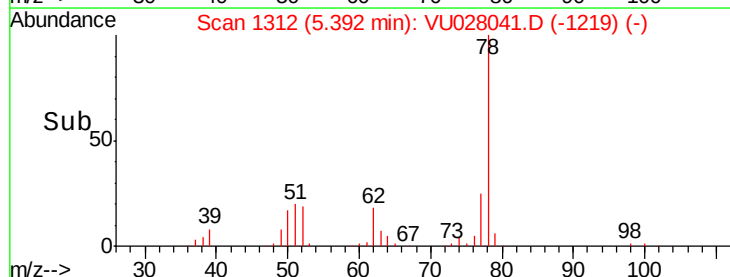
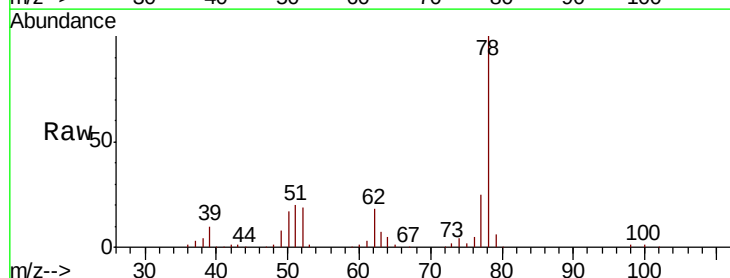
Manual Integrations
APPROVED

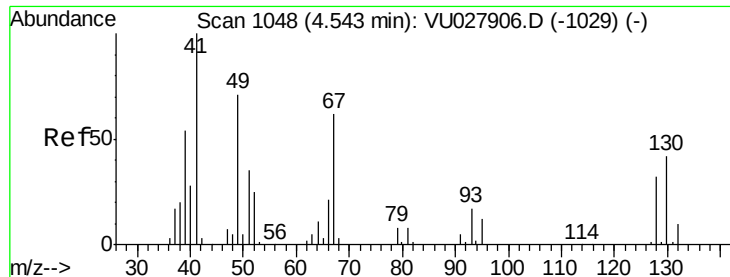
MMDadoda
11/12/2018 12:01:56 PM



#40
Benzene
Concen: 20.318 ug/l
RT: 5.39 min Scan# 1312
Delta R.T. -0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Tgt Ion	78	Resp	206593
Ion	Ratio	Lower	Upper
78	100		
77	24.6	19.3	28.9





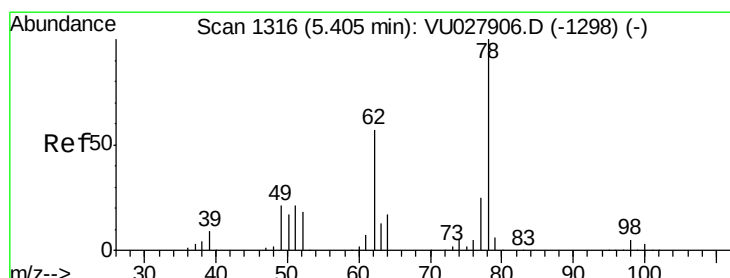
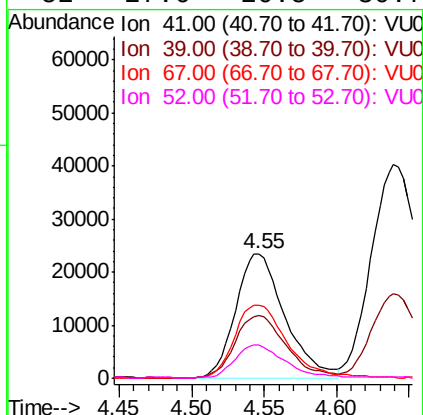
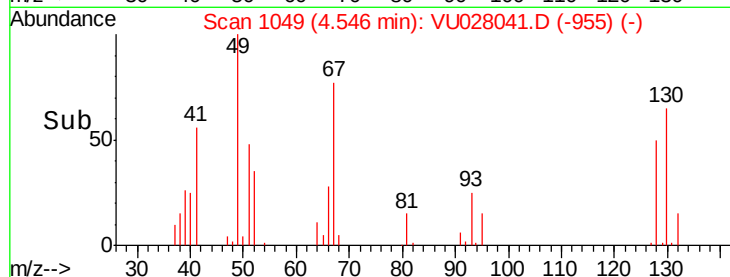
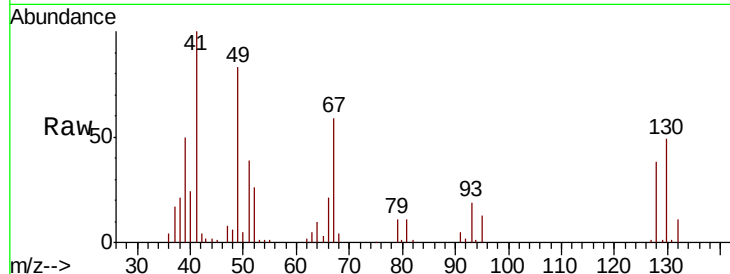
#41
Methacrylonitrile
Concen: 21.310 ug/l
RT: 4.55 min Scan# 1049
Delta R.T. 0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBSD01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	52.7	42.2	63.4	
67	63.1	49.5	74.3	
52	27.6	20.5	30.7	

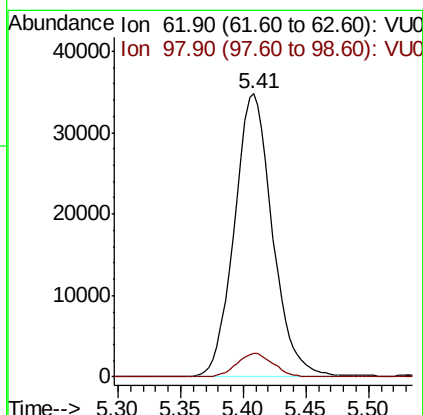
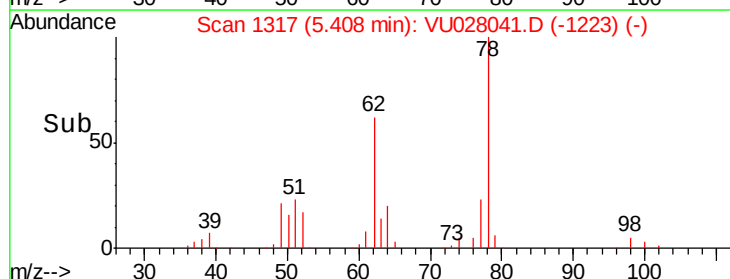
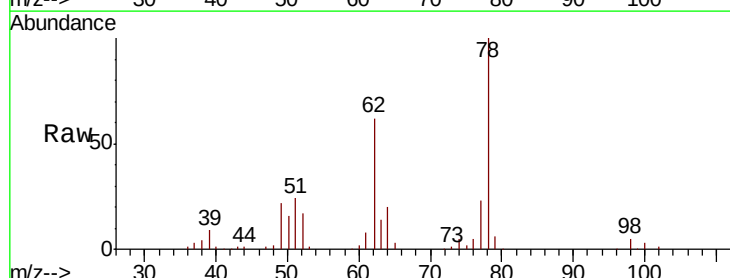
Manual Integrations
APPROVED

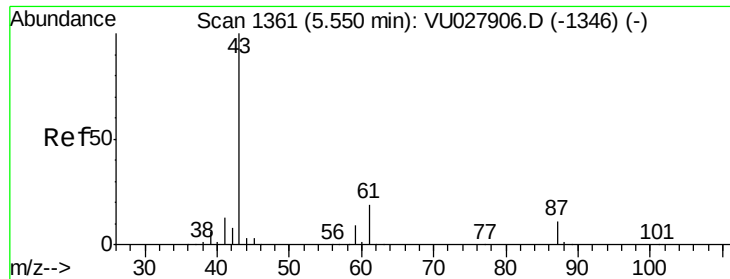
MMDadoda
11/12/2018 12:01:56 PM



#42
1,2-Dichloroethane
Concen: 20.333 ug/l
RT: 5.41 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	7.9	0.0	17.2	





#43

Isopropyl Acetate

Concen: 19.917 ug/l

RT: 5.55 min Scan# 1361

Delta R.T. -0.00 min

Lab File: VU028041.D

Acq: 09 Nov 2018 13:50

Instrument :

MSVOA_U

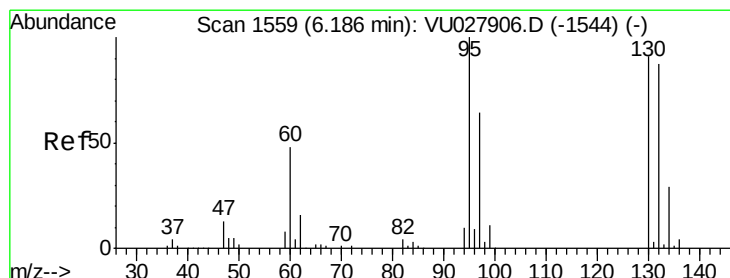
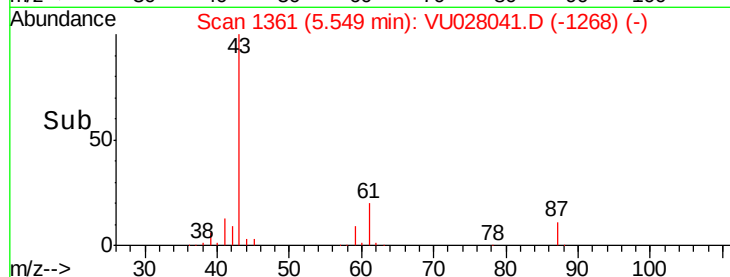
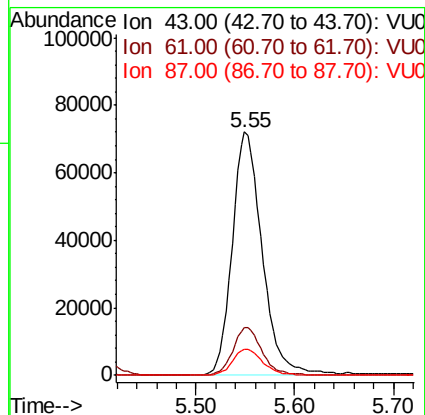
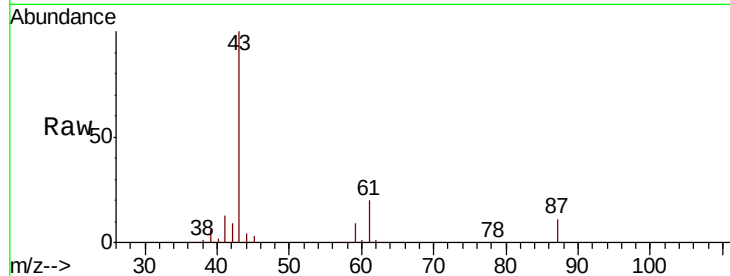
ClientSampleId :

VU1109WBSD01

Tot Ion:	43	Resp:	152052
Ion	Ratio	Lower	Upper
43	100		
61	19.1	15.0	22.4
87	10.8	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:01:56 PM



#44

Trichloroethene

Concen: 20.294 ug/l

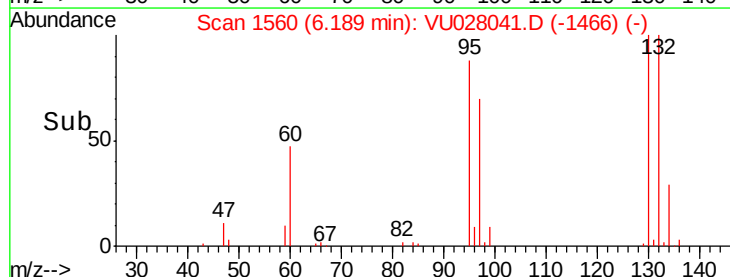
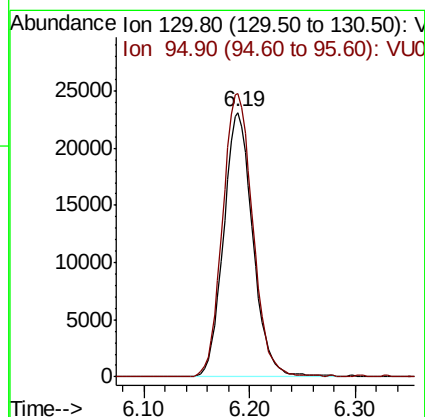
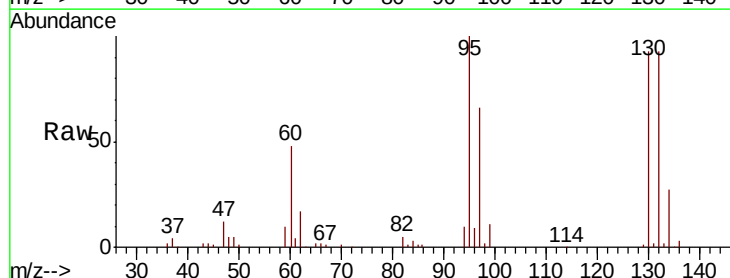
RT: 6.19 min Scan# 1560

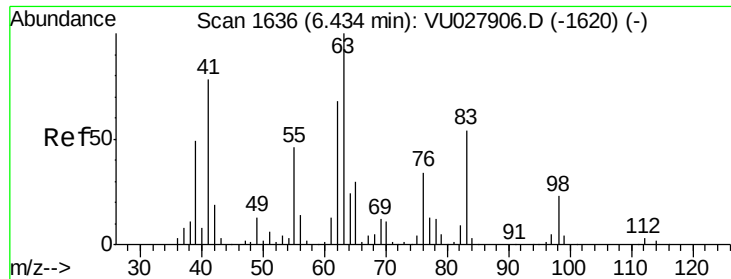
Delta R.T. 0.00 min

Lab File: VU028041.D

Acq: 09 Nov 2018 13:50

Tgt Ion:	130	Resp:	44355
Ion	Ratio	Lower	Upper
130	100		
95	107.0	0.0	219.2





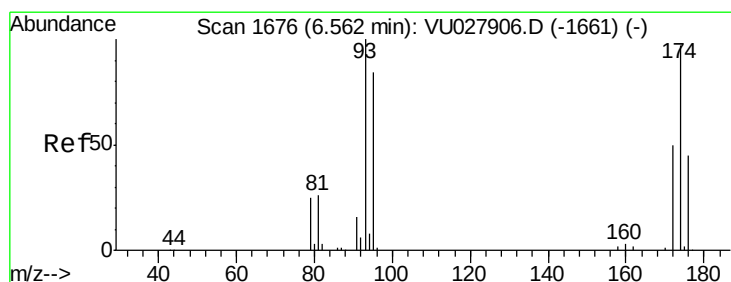
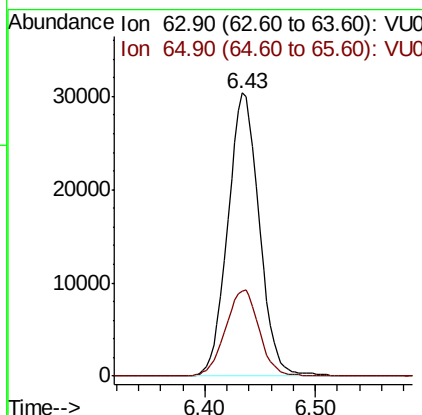
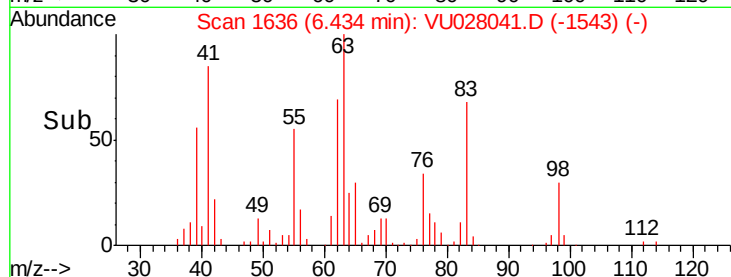
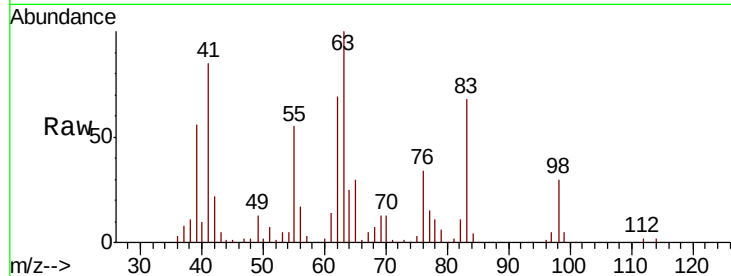
#45
 1,2-Dichloropropane
 Concen: 20.470 ug/l
 RT: 6.43 min Scan# 1636
 Delta R.T. -0.00 min
 Lab File: VU028041.D
 Acq: 09 Nov 2018 13:50

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1109WBSD01

Tot Ion: 63 Resp: 60024
 Ion Ratio Lower Upper
 63 100
 65 30.1 24.4 36.6

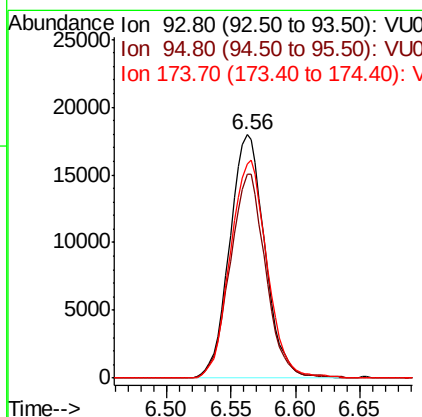
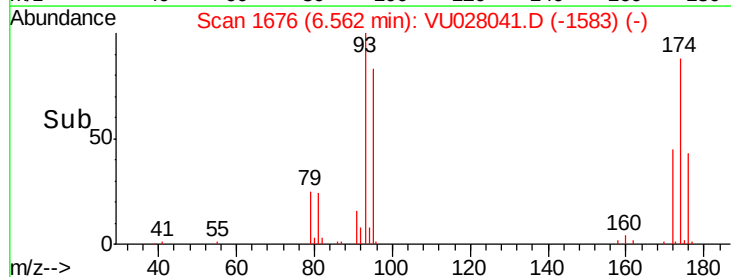
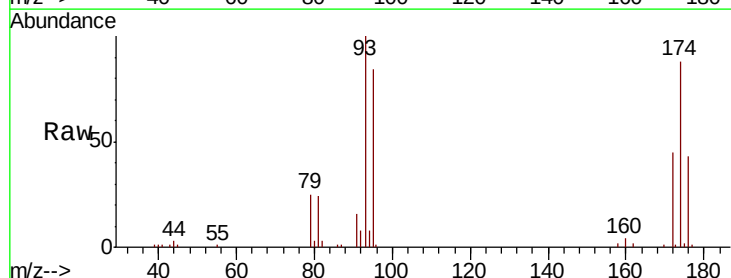
Manual Integrations
 APPROVED

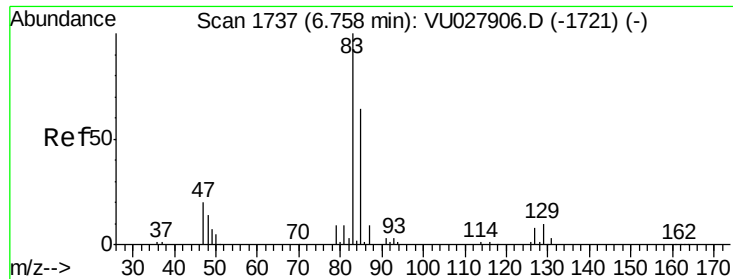
MMDadoda
 11/12/2018 12:01:56 PM



#46
 Dibromomethane
 Concen: 20.235 ug/l
 RT: 6.56 min Scan# 1676
 Delta R.T. -0.00 min
 Lab File: VU028041.D
 Acq: 09 Nov 2018 13:50

Tgt Ion: 93 Resp: 34107
 Ion Ratio Lower Upper
 93 100
 95 84.5 68.5 102.7
 174 93.0 76.1 114.1





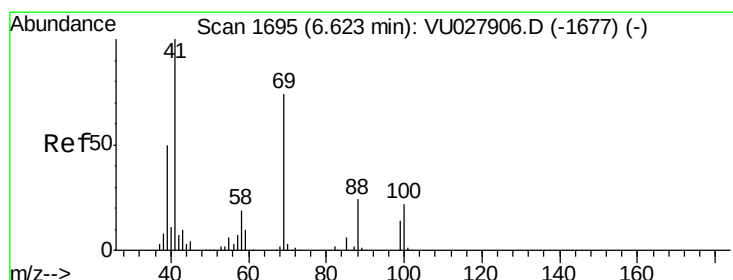
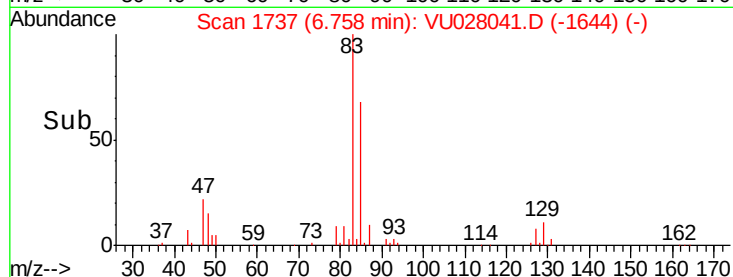
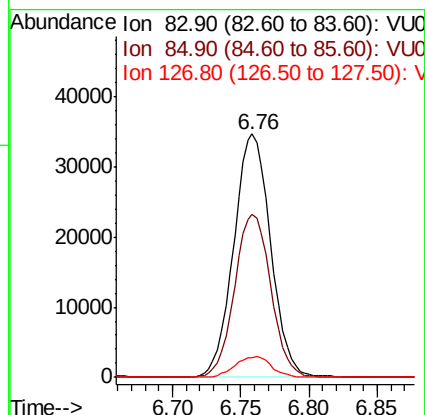
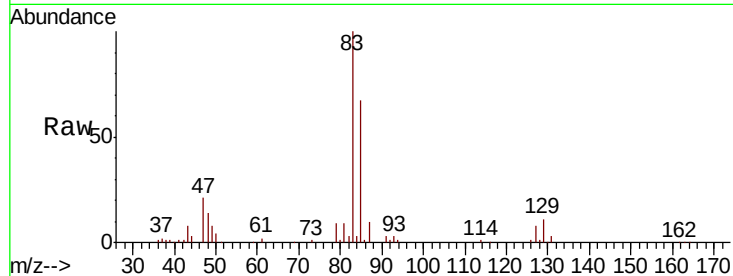
#47
Bromodichloromethane
Concen: 20.066 ug/l
RT: 6.76 min Scan# 1737
Delta R.T. -0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBSD01

Tot Ion	83	Resp	65177
Ion Ratio	100	Lower	Upper
83	100		
85	67.0	51.0	76.6
127	8.3	6.2	9.4

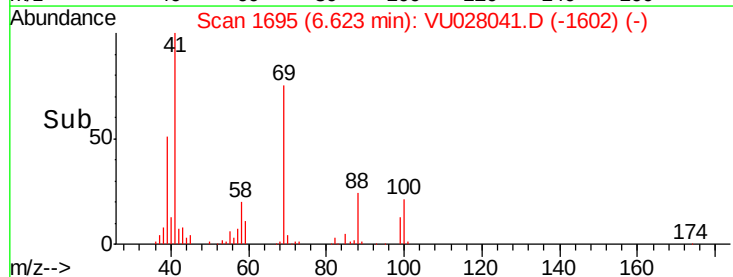
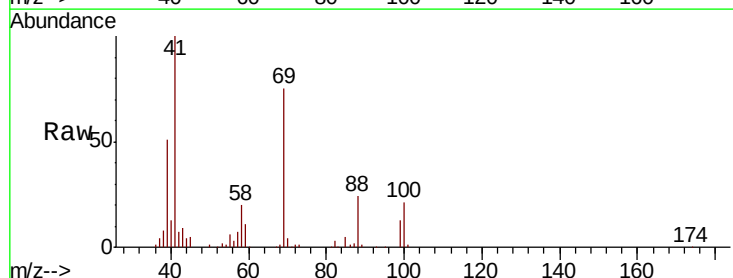
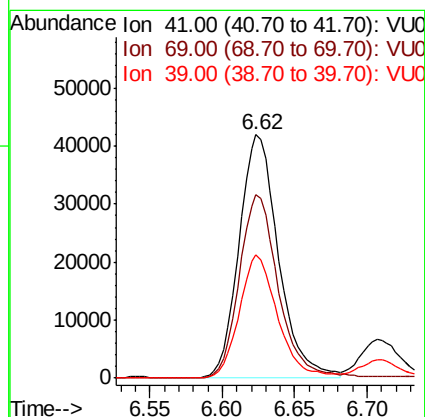
Manual Integrations
APPROVED

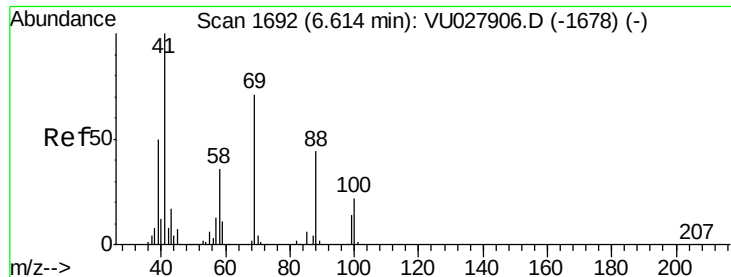
MMDadoda
11/12/2018 12:01:56 PM



#48
Methyl methacrylate
Concen: 21.213 ug/l
RT: 6.62 min Scan# 1695
Delta R.T. -0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Tgt Ion	41	Resp	79361
Ion Ratio	100	Lower	Upper
41	100		
69	75.1	59.8	89.8
39	49.3	40.0	60.0





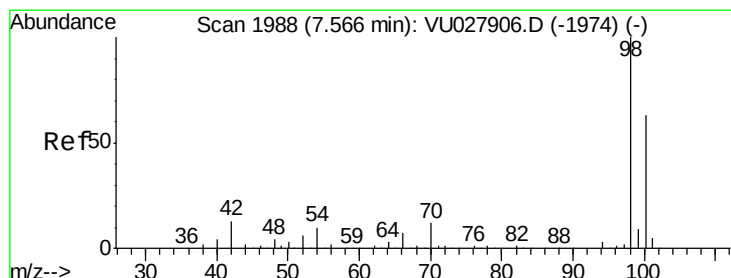
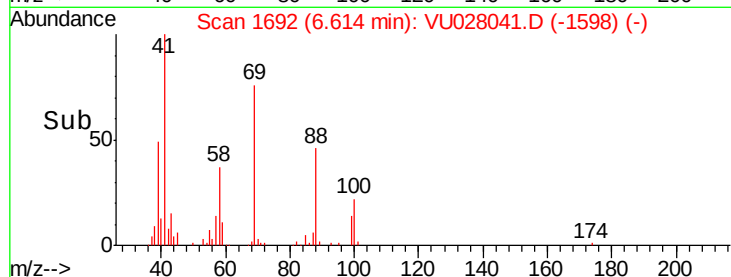
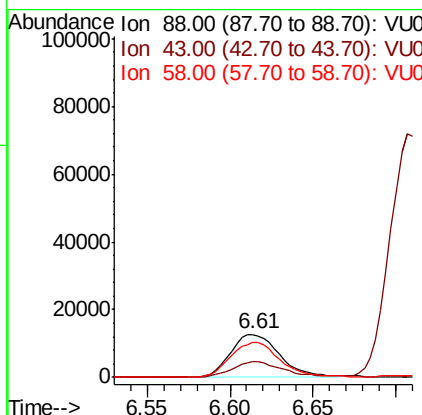
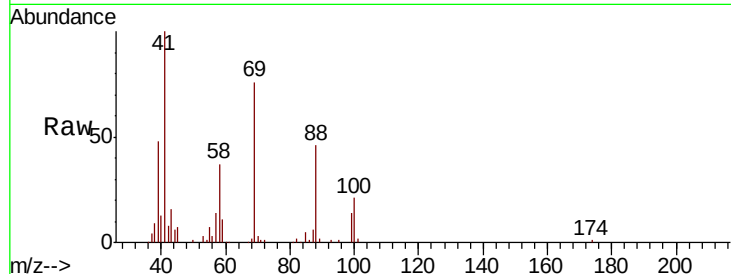
#49
1,4-Dioxane
Concen: 428.186 ug/l
RT: 6.61 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	35.4	30.5	45.7
58	82.9	67.1	100.7

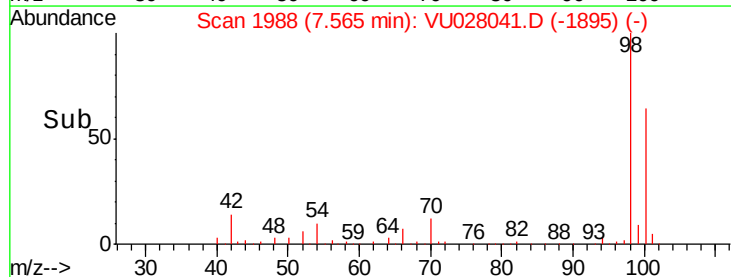
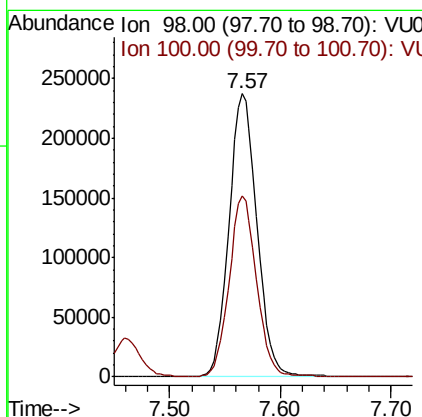
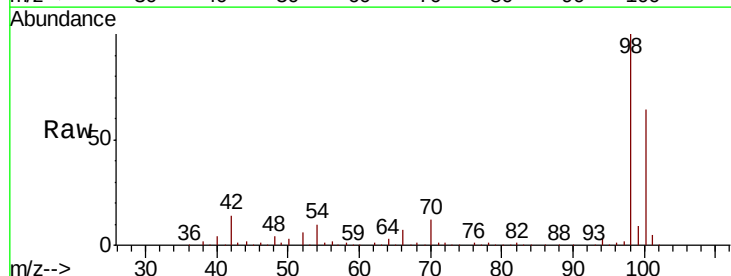
Manual Integrations
APPROVED

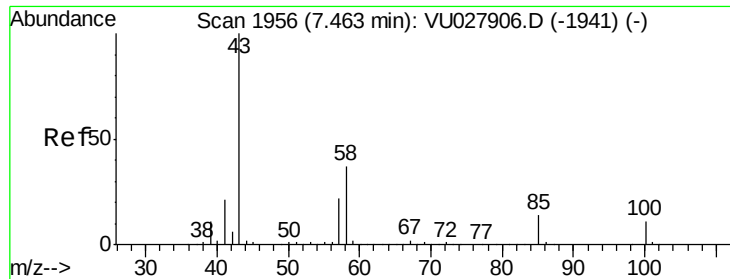
MMDadoda
11/12/2018 12:01:56 PM



#50
Toluene-d8
Concen: 53.979 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Tgt Ion	Ratio	Lower	Upper
98	100		
100	62.1	50.1	75.1





#51

4-Methyl-2-Pentanone

Concen: 99.742 ug/l

RT: 7.46 min Scan# 1955

Delta R.T. -0.00 min

Lab File: VU028041.D

Acq: 09 Nov 2018 13:50

Instrument :

MSVOA_U

ClientSampleId :

VU1109WBSD01

Tot Ion: 43 Resp: 508527

Ion Ratio Lower Upper

43 100

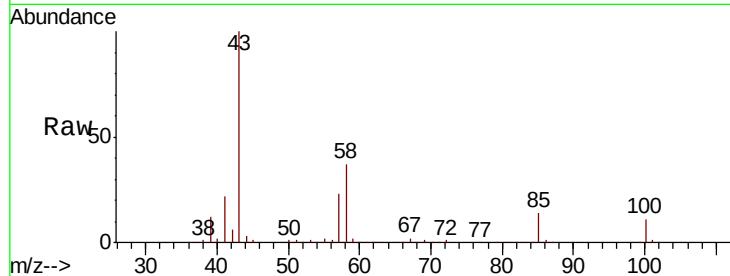
58 37.4 29.5 44.3

Manual Integrations

APPROVED

MMDadoda

11/12/2018 12:01:56 PM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

7.46

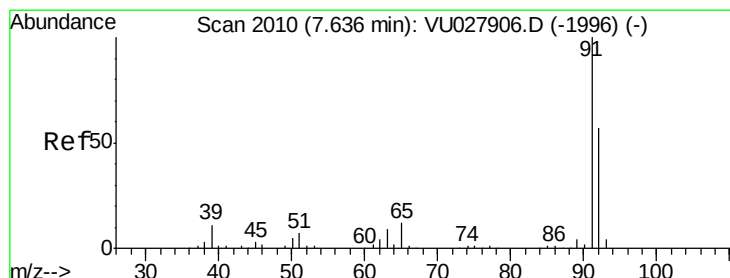
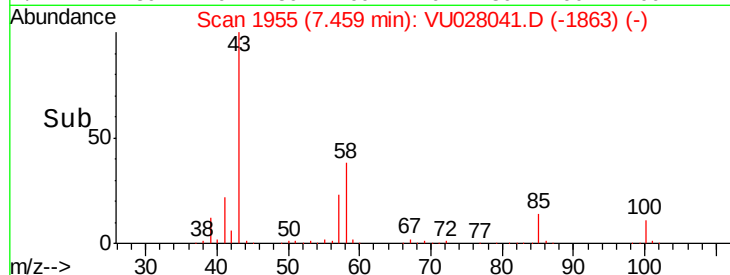
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 20.413 ug/l

RT: 7.64 min Scan# 2011

Delta R.T. 0.00 min

Lab File: VU028041.D

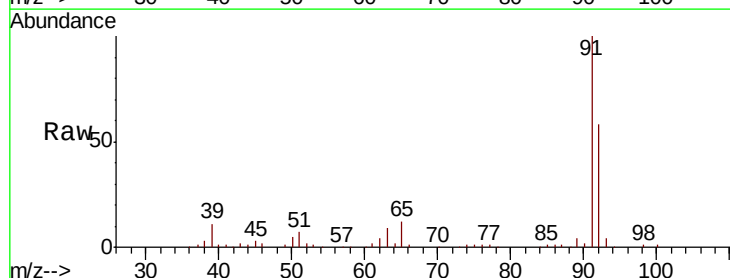
Acq: 09 Nov 2018 13:50

Tgt Ion: 92 Resp: 122023

Ion Ratio Lower Upper

92 100

91 175.7 141.2 211.8



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0

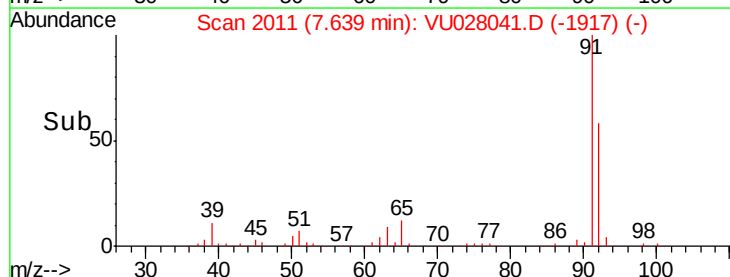
7.64

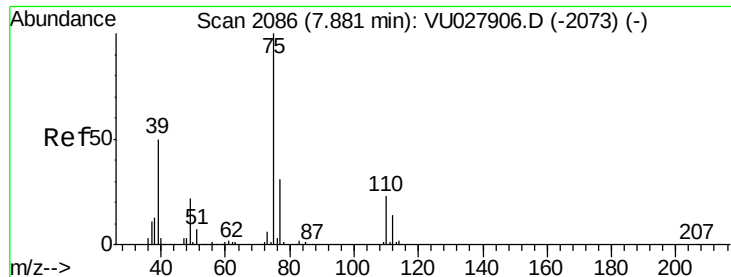
100000

50000

0

Time-->





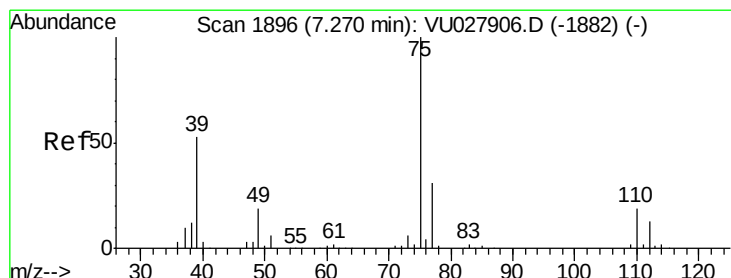
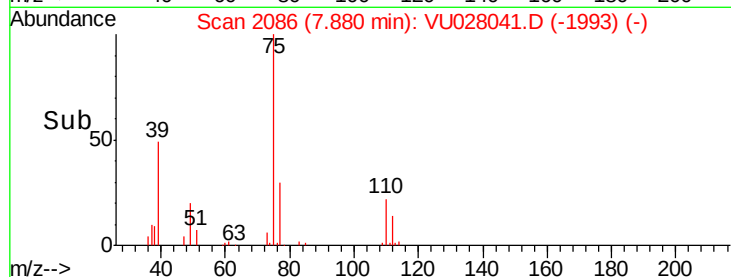
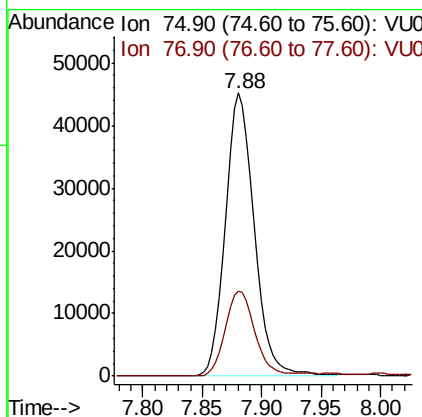
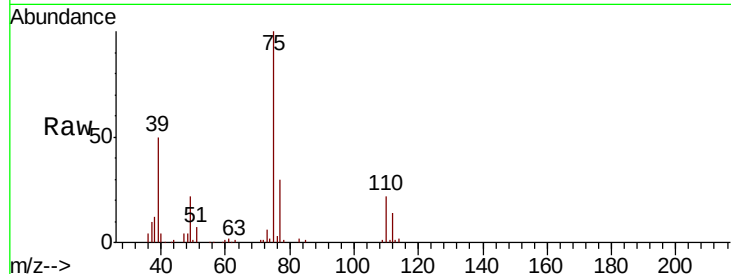
#53
t-1,3-Dichloropropene
Concen: 19.607 ug/l
RT: 7.88 min Scan# 2086
Delta R.T. 0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
77	29.8	25.1	37.7

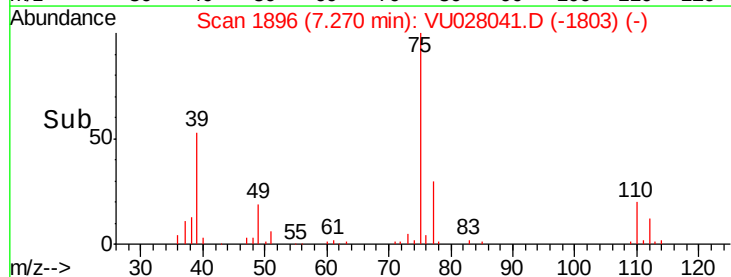
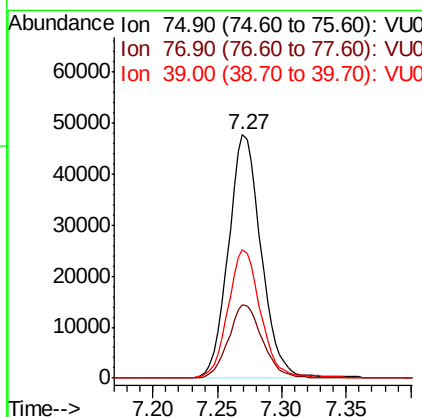
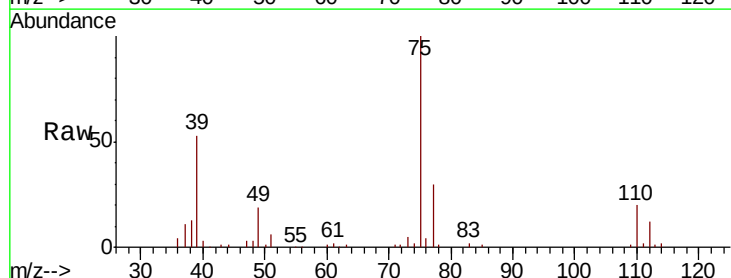
Manual Integrations
APPROVED

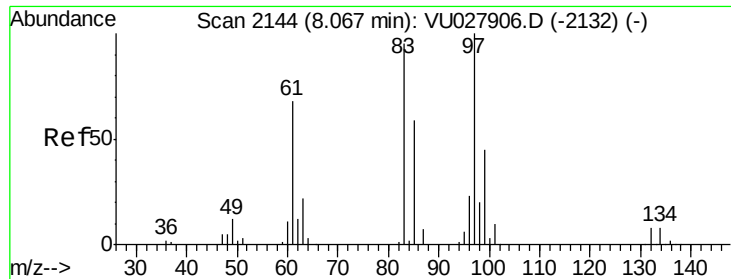
MMDadoda
11/12/2018 12:01:56 PM



#54
cis-1,3-Dichloropropene
Concen: 21.034 ug/l
RT: 7.27 min Scan# 1896
Delta R.T. -0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Tgt Ion	Ratio	Lower	Upper
75	100		
77	30.4	24.6	37.0
39	52.6	42.6	64.0





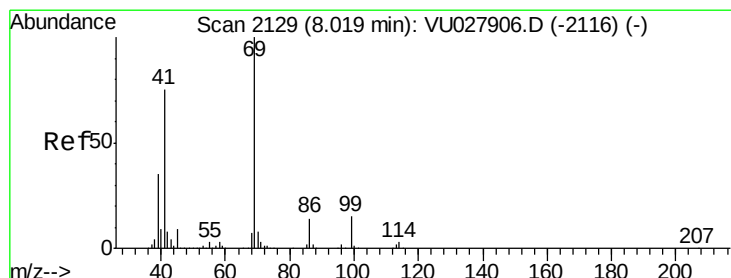
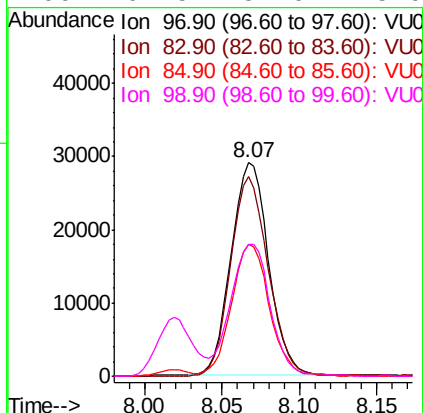
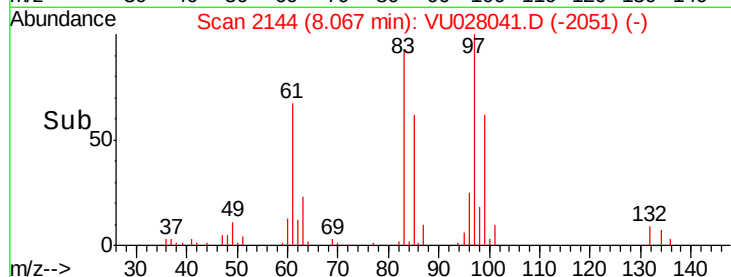
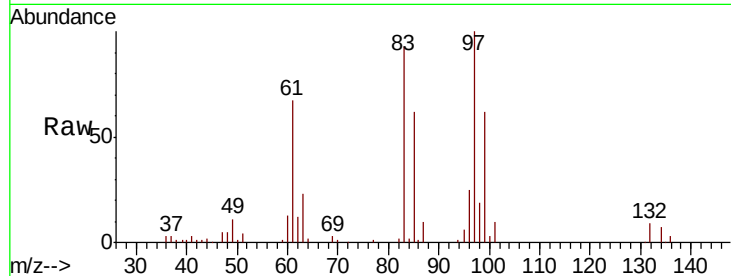
#55
 1,1,2-Trichloroethane
 Concen: 20.050 ug/l
 RT: 8.07 min Scan# 2144
 Delta R.T. -0.00 min
 Lab File: VU028041.D
 Acq: 09 Nov 2018 13:50

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1109WBSD01

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	93.8	76.1	114.1	
85	62.0	48.9	73.3	
99	61.5	52.0	78.0	

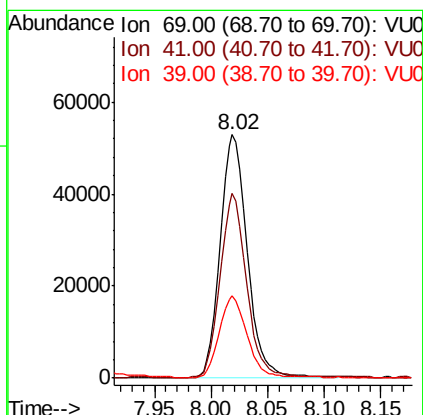
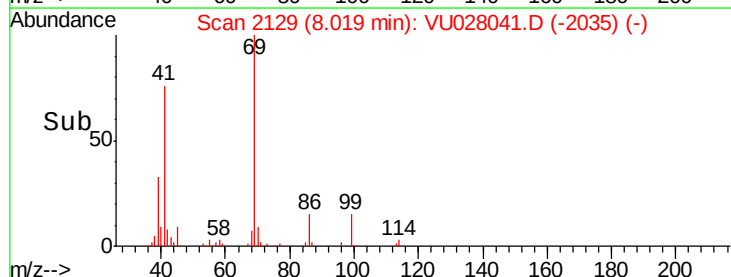
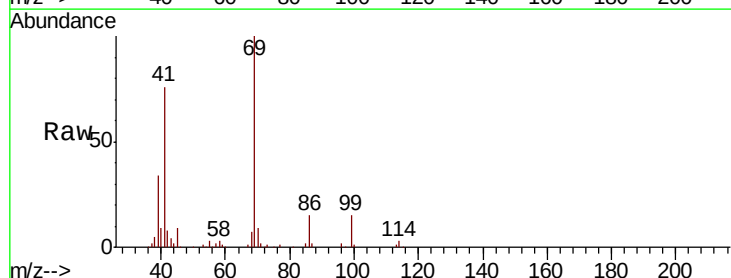
Manual Integrations
 APPROVED

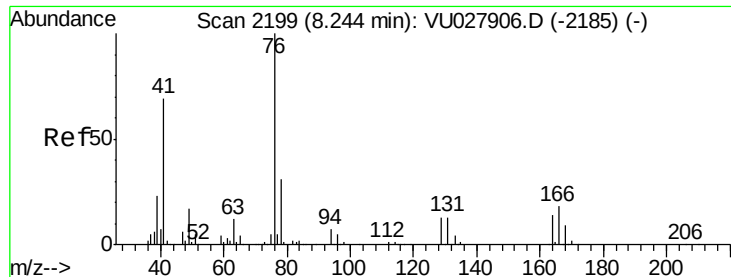
MMDadoda
 11/12/2018 12:01:56 PM



#56
 Ethyl methacrylate
 Concen: 20.683 ug/l
 RT: 8.02 min Scan# 2129
 Delta R.T. 0.00 min
 Lab File: VU028041.D
 Acq: 09 Nov 2018 13:50

Tgt Ion	Ion	Ratio	Lower	Upper
69	100			
41	73.2	59.8	89.6	
39	33.7	28.6	42.8	





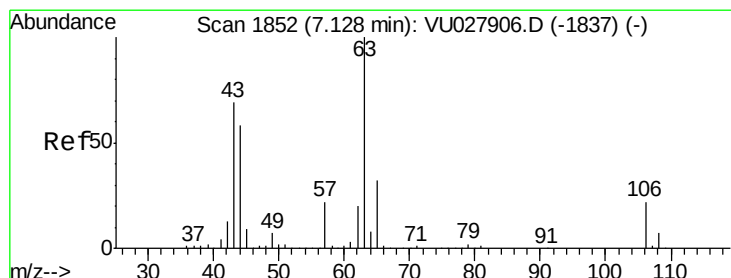
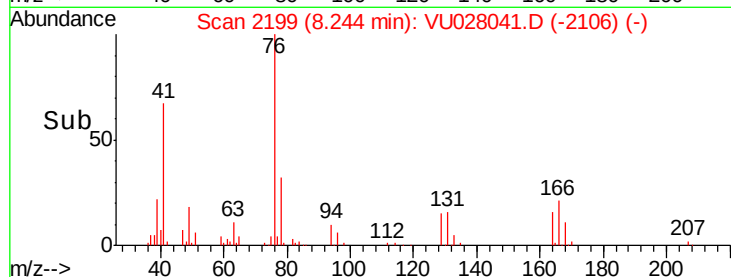
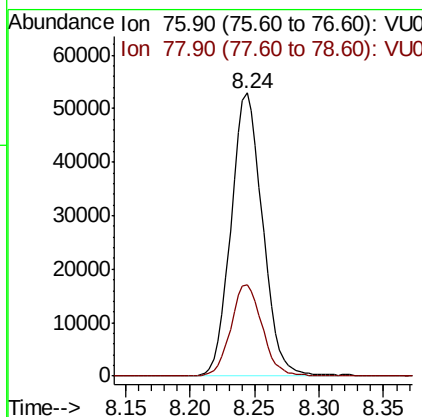
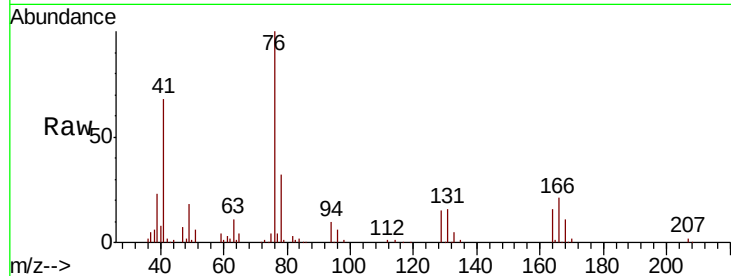
#57
 1,3-Dichloropropane
 Concen: 20.368 ug/l
 RT: 8.24 min Scan# 2199
 Delta R.T. -0.00 min
 Lab File: VU028041.D
 Acq: 09 Nov 2018 13:50

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1109WBSD01

Tot Ion: 76 Resp: 90231
 Ion Ratio Lower Upper
 76 100
 78 32.2 25.3 37.9

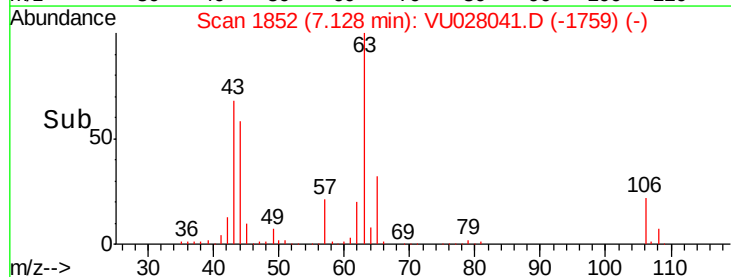
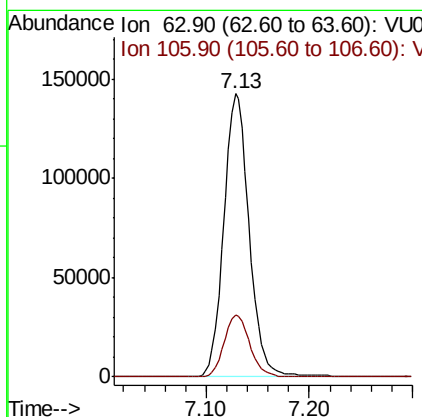
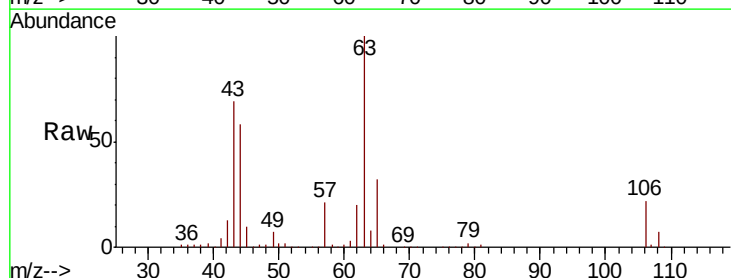
Manual Integrations
 APPROVED

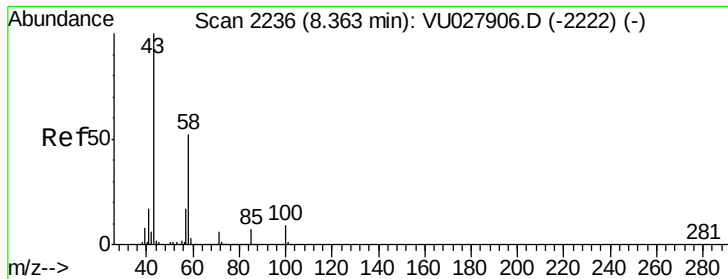
MMDadoda
 11/12/2018 12:01:56 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 106.143 ug/l
 RT: 7.13 min Scan# 1852
 Delta R.T. -0.00 min
 Lab File: VU028041.D
 Acq: 09 Nov 2018 13:50

Tgt Ion: 63 Resp: 243802
 Ion Ratio Lower Upper
 63 100
 106 22.3 17.8 26.6





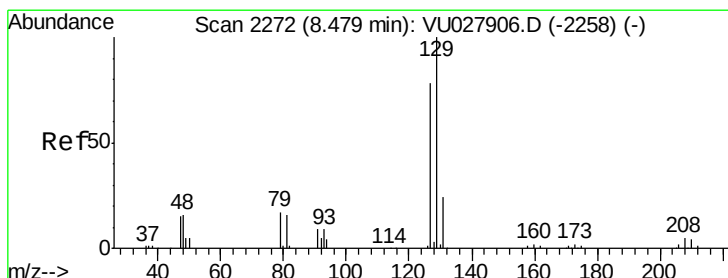
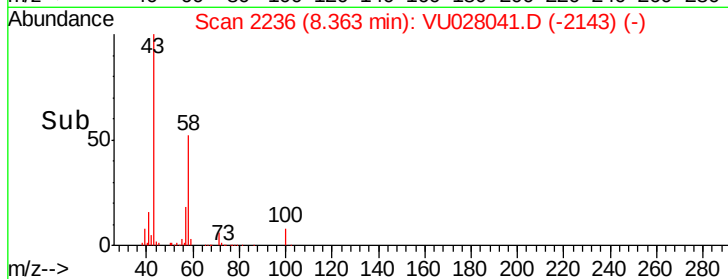
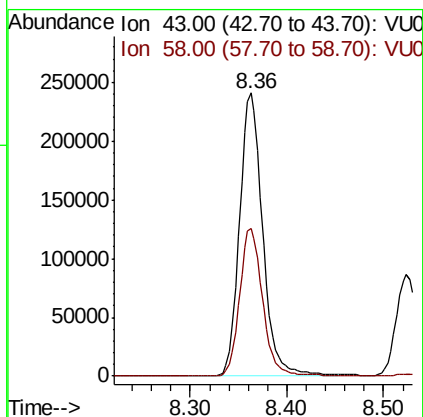
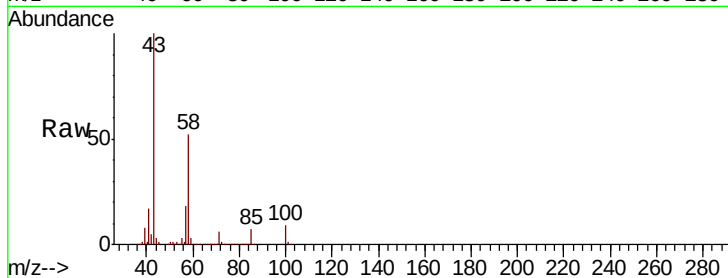
#59
2-Hexanone
Concen: 101.247 ug/l
RT: 8.36 min Scan# 2236
Delta R.T. -0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBSD01

Tot Ion: 43 Resp: 399243
Ion Ratio Lower Upper
43 100
58 52.1 25.8 77.3

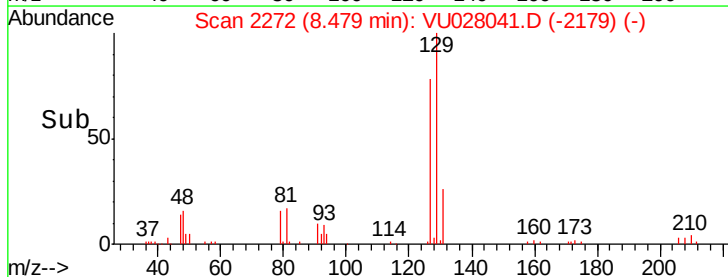
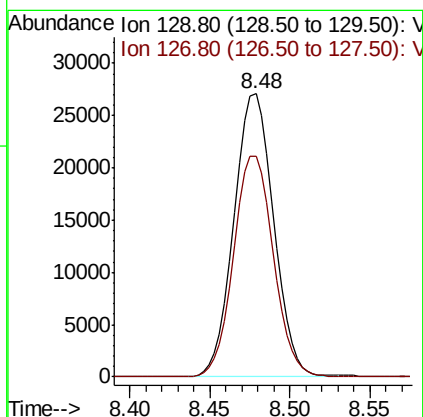
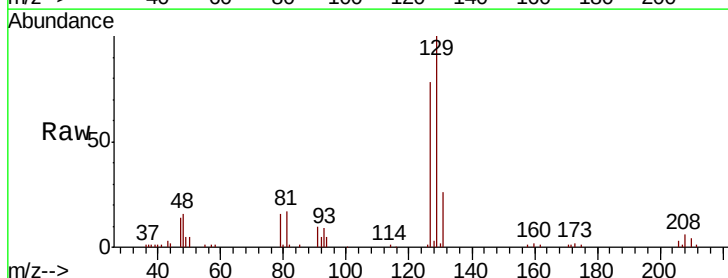
Manual Integrations
APPROVED

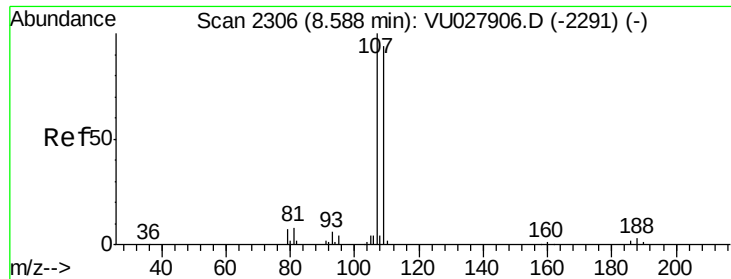
MMDadoda
11/12/2018 12:01:56 PM



#60
Dibromochloromethane
Concen: 19.976 ug/l
RT: 8.48 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Tgt Ion: 129 Resp: 45970
Ion Ratio Lower Upper
129 100
127 78.0 39.2 117.6





#61

1,2-Dibromoethane

Concen: 20.892 ug/l

RT: 8.59 min Scan# 2306

Delta R.T. -0.00 min

Lab File: VU028041.D

Acq: 09 Nov 2018 13:50

Instrument :

MSVOA_U

ClientSampleId :

VU1109WBSD01

Tot Ion:107 Resp: 53987

Ion Ratio Lower Upper

107 100

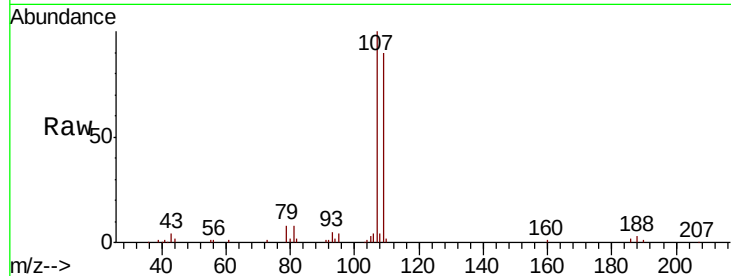
109 91.0 73.8 110.8

Manual Integrations

APPROVED

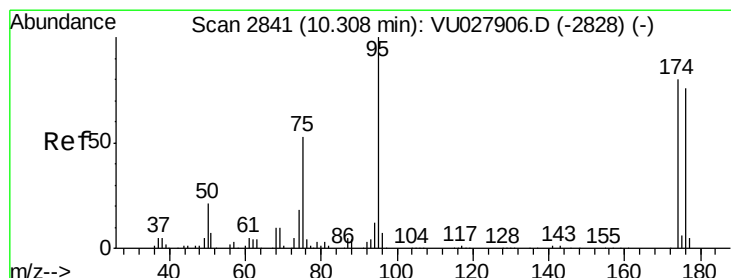
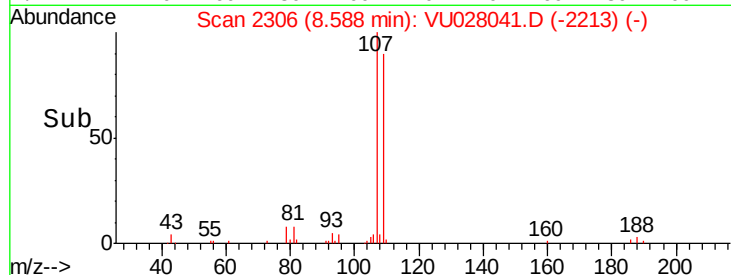
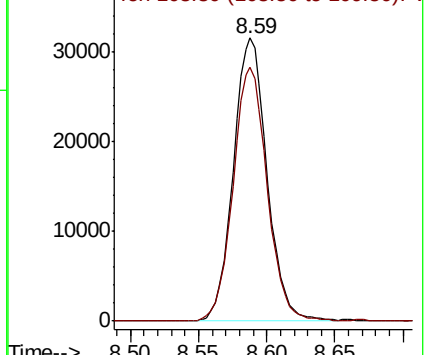
MMDadoda

11/12/2018 12:01:56 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 53.601 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.00 min

Lab File: VU028041.D

Acq: 09 Nov 2018 13:50

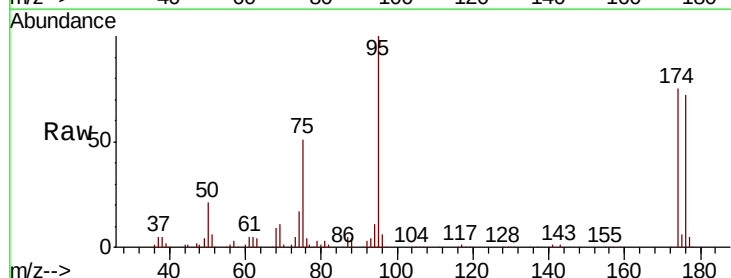
Tgt Ion: 95 Resp: 152904

Ion Ratio Lower Upper

95 100

174 75.4 0.0 156.4

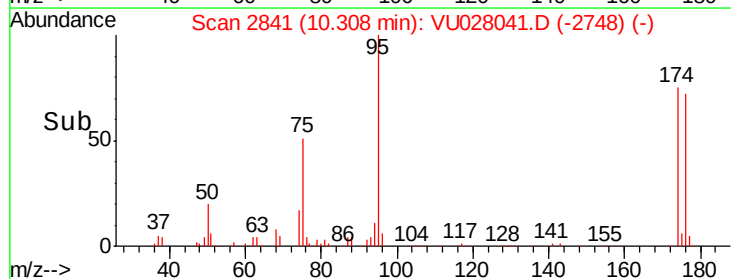
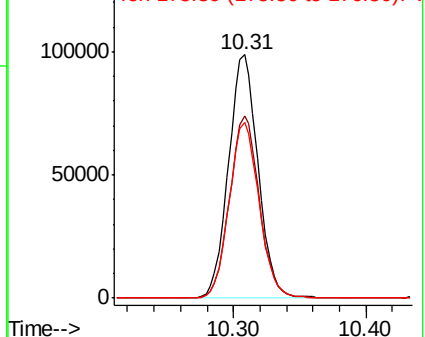
176 73.1 0.0 150.8

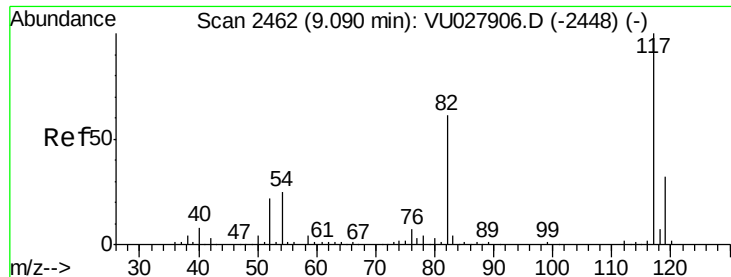


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





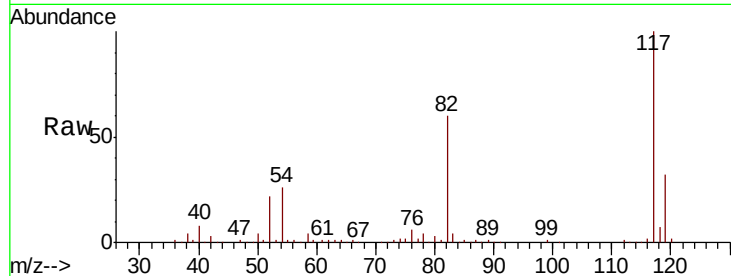
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	60.5	48.6	73.0
119	31.6	25.8	38.8

Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:01:56 PM

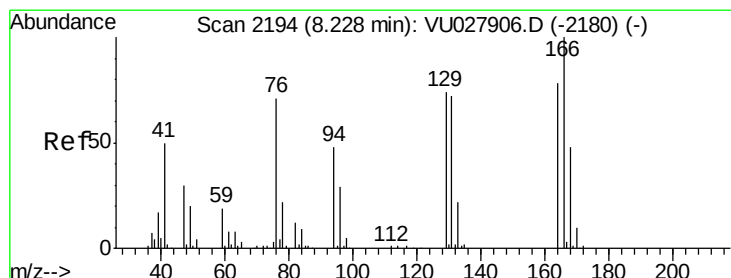
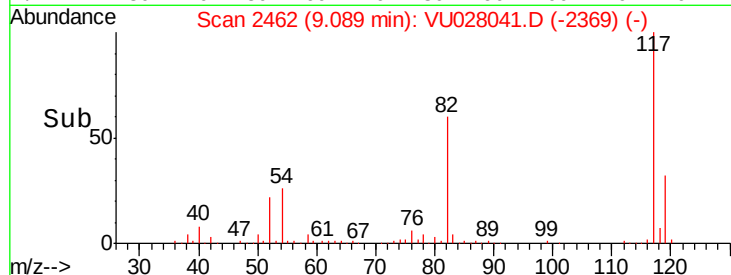
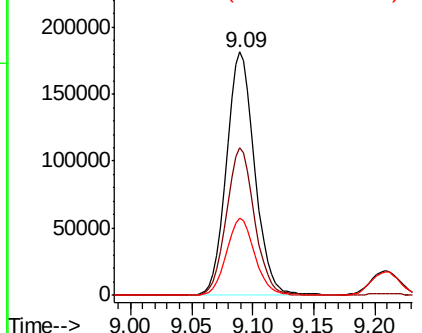


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 19.661 ug/l
RT: 8.23 min Scan# 2195
Delta R.T. 0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Tgt Ion	Ratio	Lower	Upper
164	100		
166	131.2	102.1	153.1
129	95.6	75.9	113.9
131	91.6	73.0	109.6

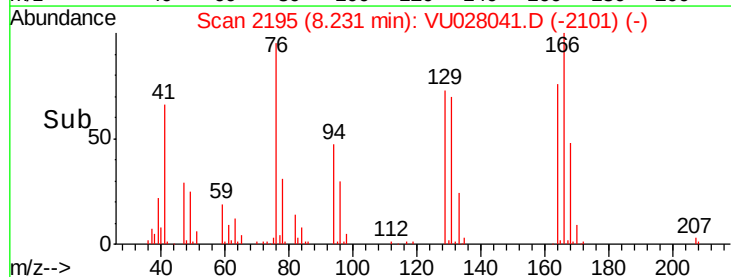
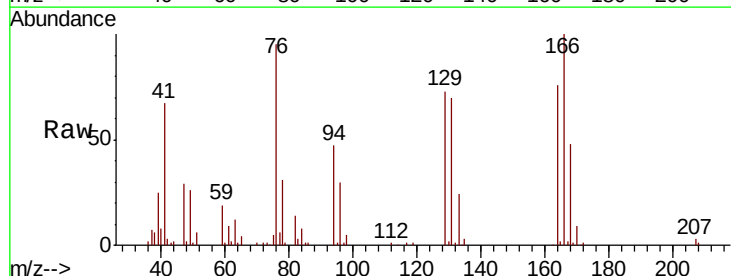
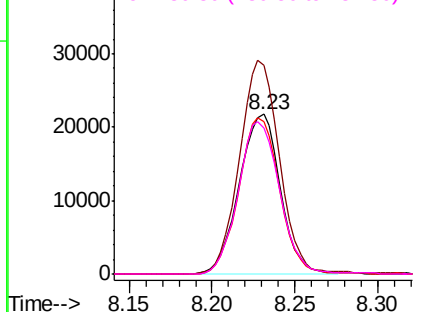
Abundance

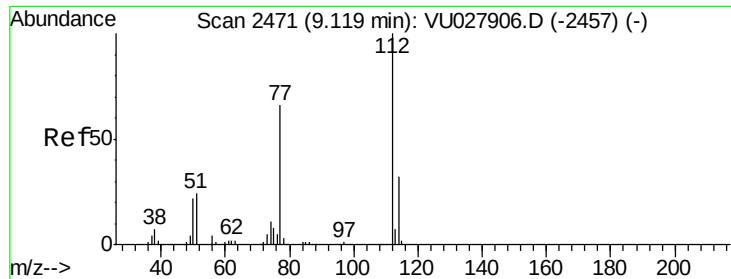
Ion 163.80 (163.50 to 164.50): V

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





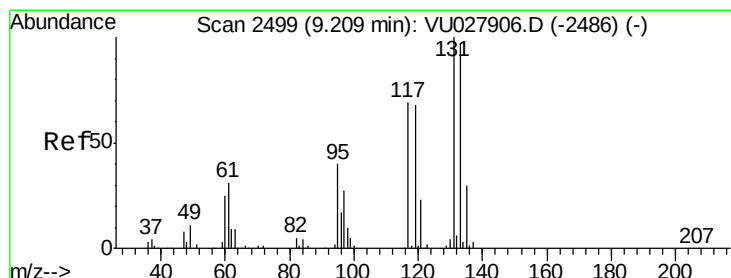
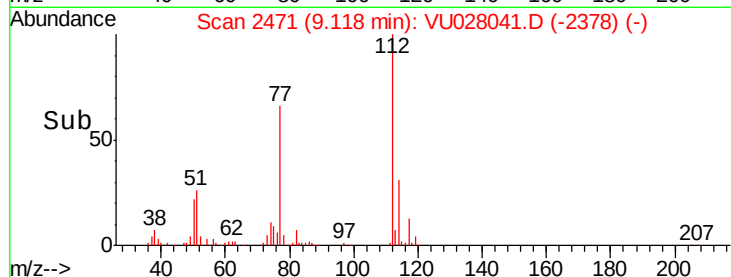
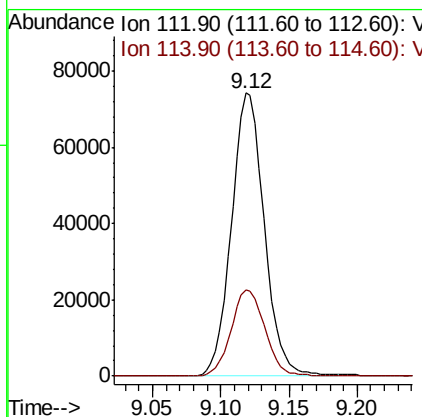
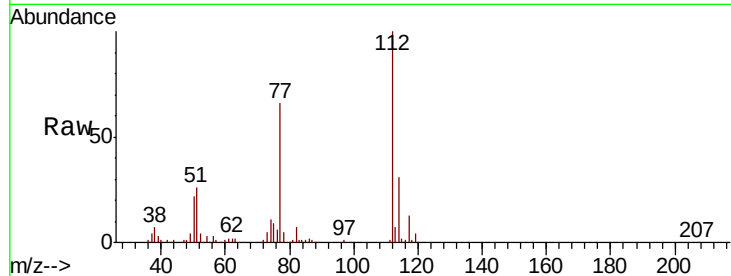
#65
Chlorobenzene
Concen: 19.957 ug/l
RT: 9.12 min Scan# 2471
Delta R.T. -0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBSD01

Tot Ion	Ratio	Lower	Upper
112	100		
114	30.6	25.2	37.8

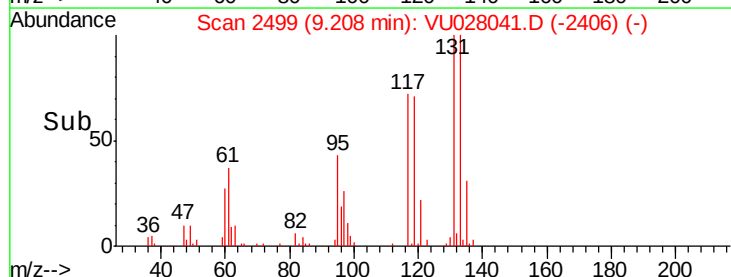
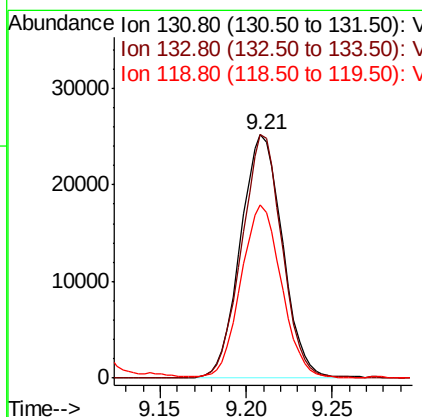
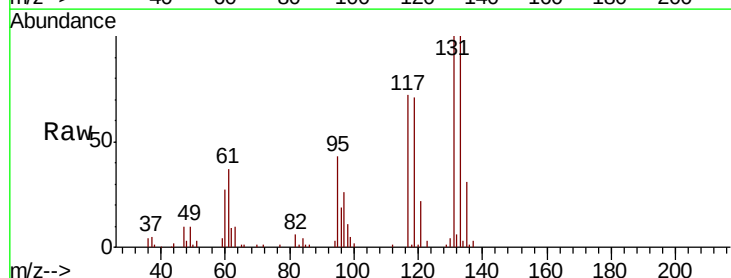
Manual Integrations
APPROVED

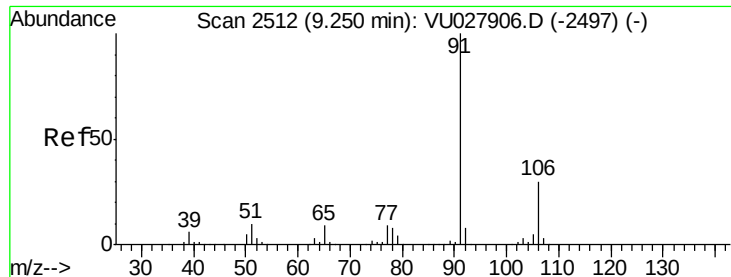
MMDadoda
11/12/2018 12:01:56 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.091 ug/l
RT: 9.21 min Scan# 2499
Delta R.T. -0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.2	48.1	144.4
119	68.8	34.0	101.8





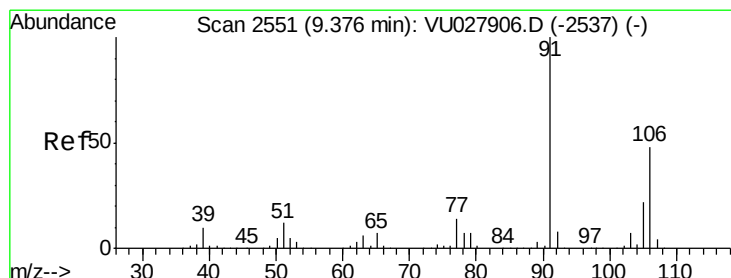
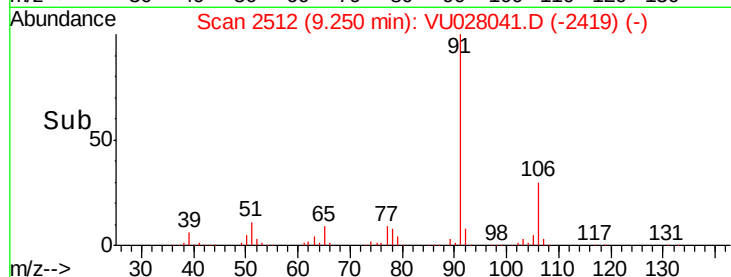
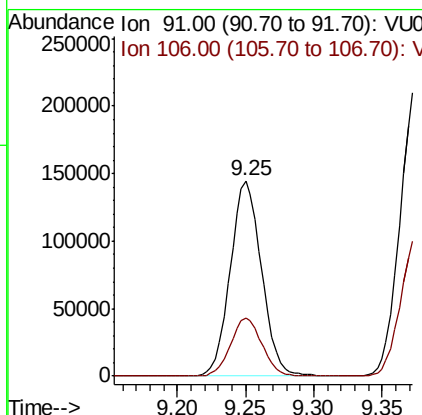
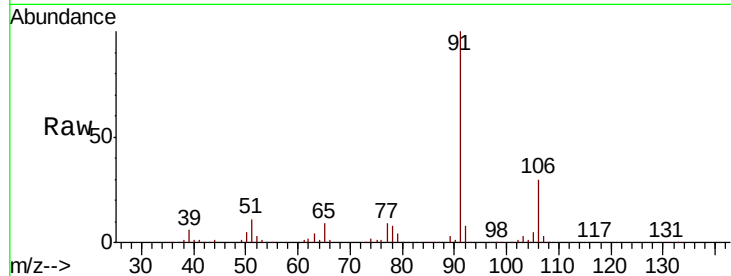
#67
Ethyl Benzene
Concen: 20.140 ug/l
RT: 9.25 min Scan# 2512
Delta R.T. -0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBSD01

Tot Ion: 91 Resp: 230407
Ion Ratio Lower Upper
91 100
106 29.7 23.6 35.4

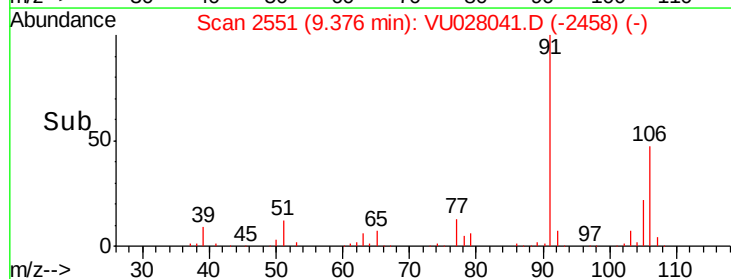
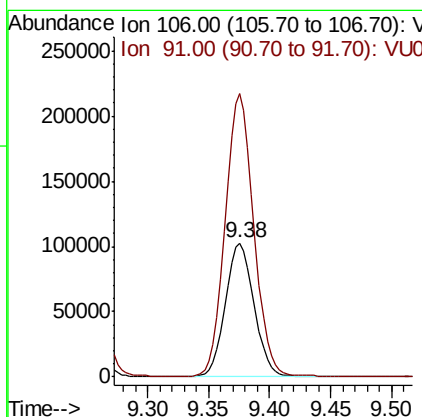
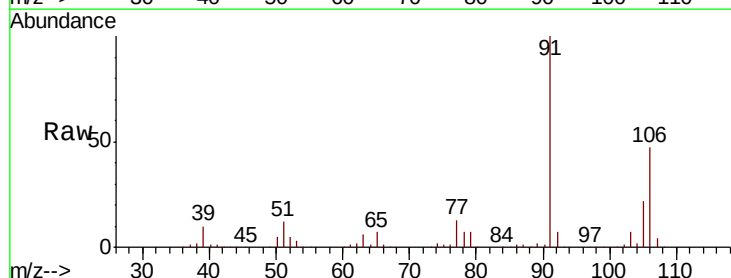
Manual Integrations
APPROVED

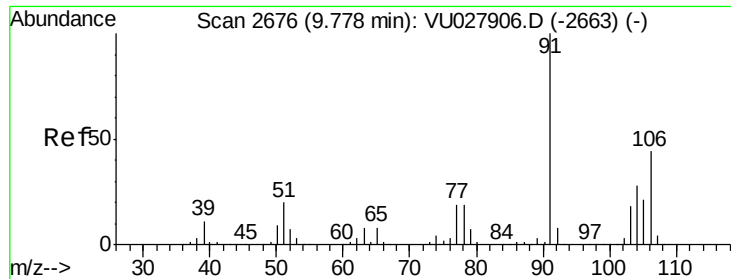
MMDadoda
11/12/2018 12:01:56 PM



#68
m/p-Xylenes
Concen: 40.865 ug/l
RT: 9.38 min Scan# 2551
Delta R.T. -0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Tgt Ion: 106 Resp: 169625
Ion Ratio Lower Upper
106 100
91 210.5 168.2 252.4





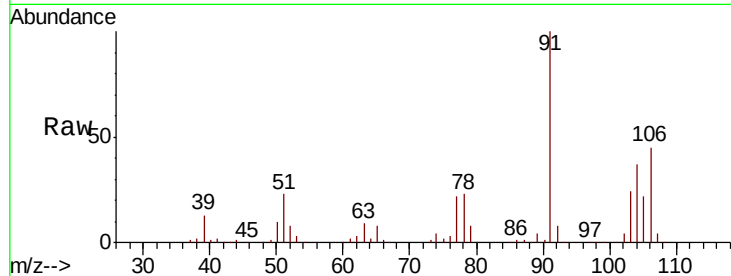
#69
o-Xylene
Concen: 19.988 ug/l
RT: 9.78 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBSD01

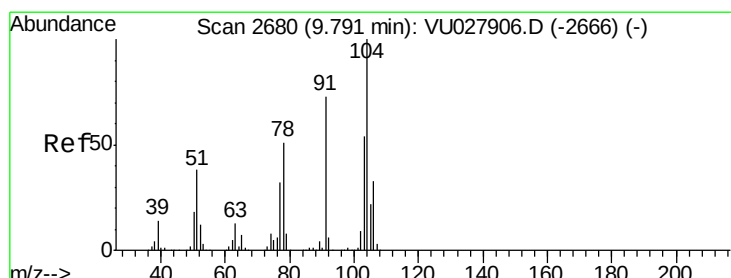
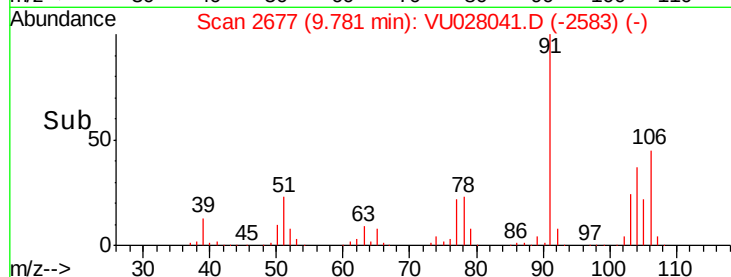
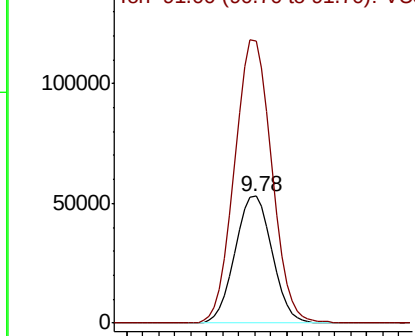
Tot Ion:106 Resp: 83780
Ion Ratio Lower Upper
106 100
91 223.2 111.1 333.4

Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:01:56 PM

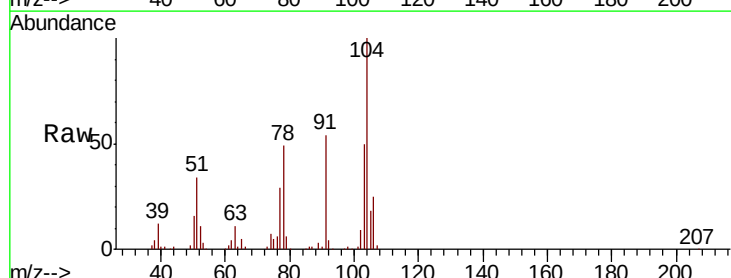


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

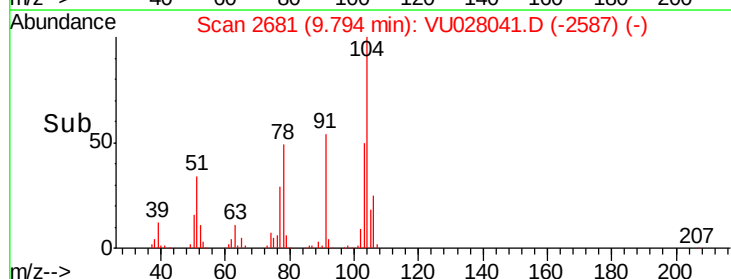
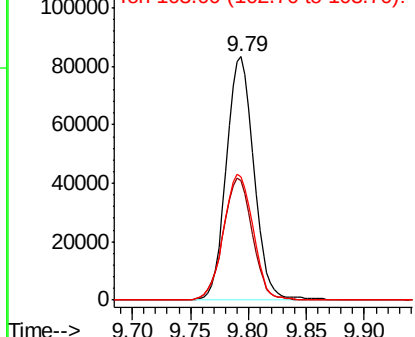


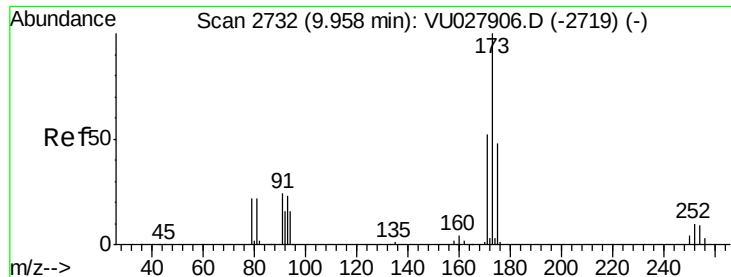
#70
Styrene
Concen: 20.418 ug/l
RT: 9.79 min Scan# 2681
Delta R.T. 0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Tgt Ion:104 Resp: 136744
Ion Ratio Lower Upper
104 100
78 53.4 43.0 64.4
103 55.6 45.1 67.7



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: 19.352 ug/l

RT: 9.96 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU028041.D

Acq: 09 Nov 2018 13:50

Instrument :

MSVOA_U

ClientSampleId :

VU1109WBSD01

Tot Ion:173 Resp: 34429

Ion Ratio Lower Upper

173 100

175 47.0 24.3 72.8

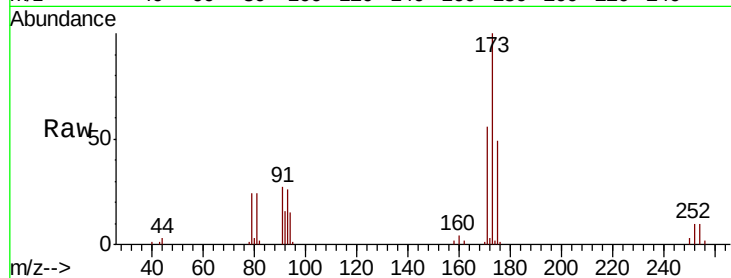
254 0.0 0.0 0.0

Manual Integrations

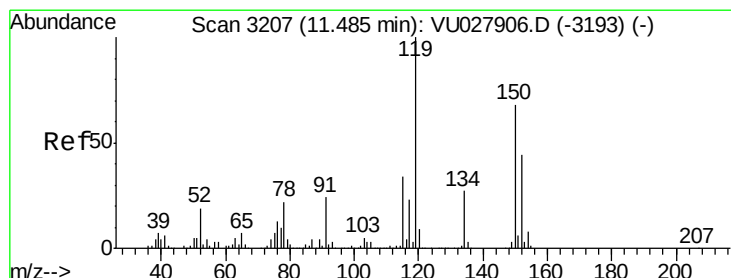
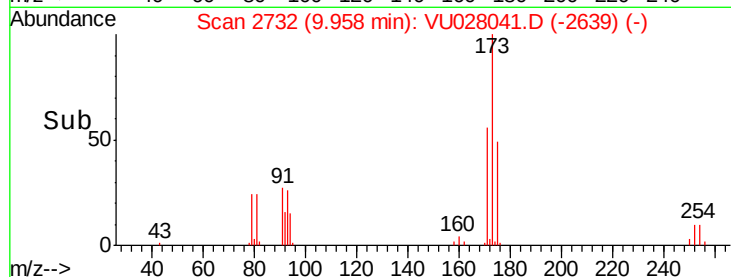
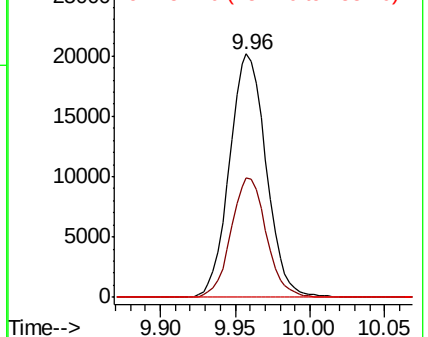
APPROVED

MMDadoda

11/12/2018 12:01:56 PM



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: VU028041.D

Acq: 09 Nov 2018 13:50

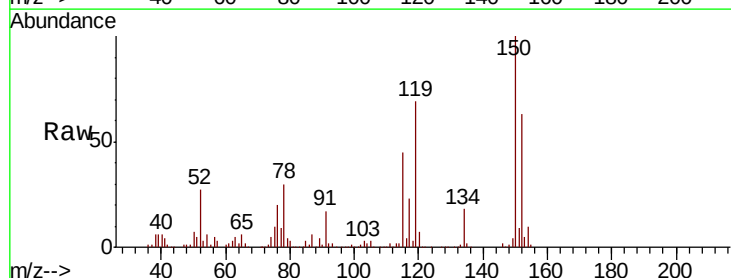
Tgt Ion:152 Resp: 140373

Ion Ratio Lower Upper

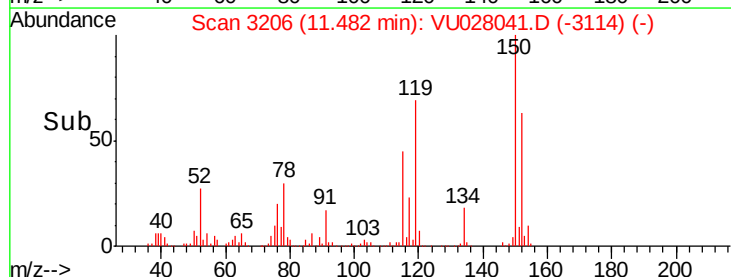
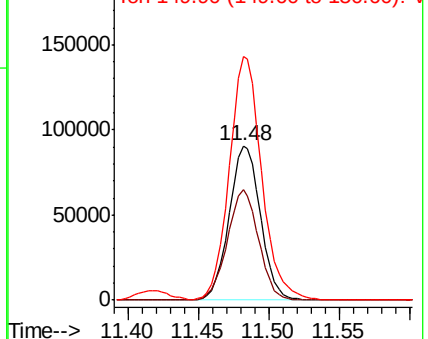
152 100

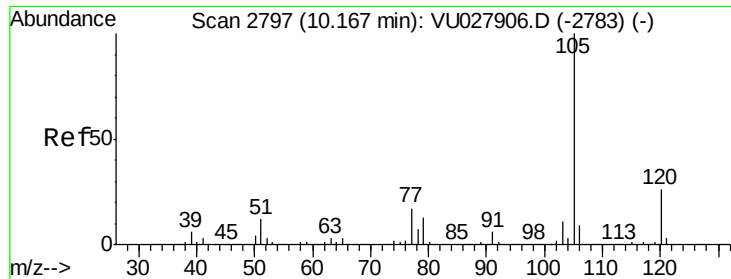
115 71.4 43.0 129.0

150 163.4 0.0 349.4



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





#73

Isopropylbenzene

Concen: 20.780 ug/l

RT: 10.17 min Scan# 2797

Delta R.T. -0.00 min

Lab File: VU028041.D

Acq: 09 Nov 2018 13:50

Instrument :

MSVOA_U

ClientSampleId :

VU1109WBSD01

Tot Ion: 105 Resp: 225970

Ion Ratio Lower Upper

105 100

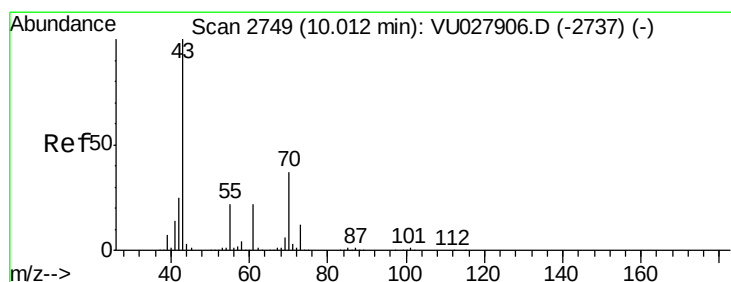
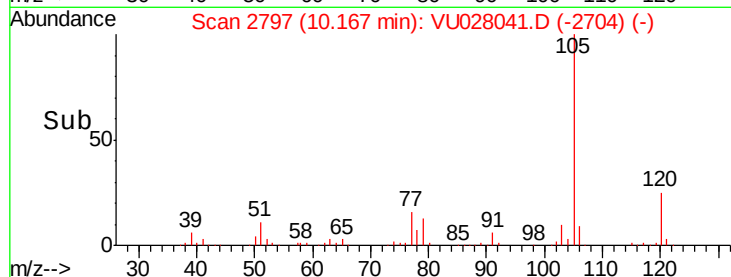
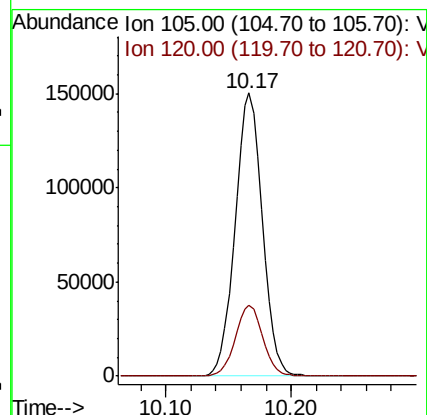
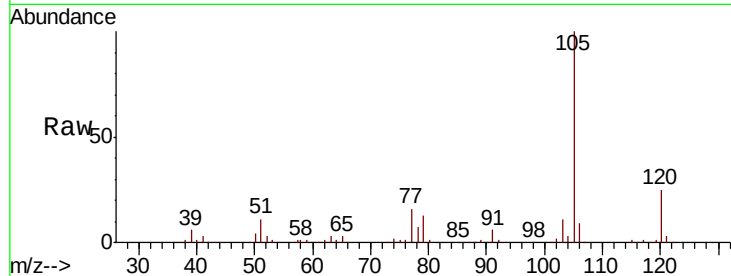
120 25.3 12.7 38.0

Manual Integrations

APPROVED

MMDadoda

11/12/2018 12:01:56 PM



#74

N-ethyl acetate

Concen: 20.577 ug/l

RT: 10.01 min Scan# 2749

Delta R.T. -0.00 min

Lab File: VU028041.D

Acq: 09 Nov 2018 13:50

Tgt Ion: 43 Resp: 135309

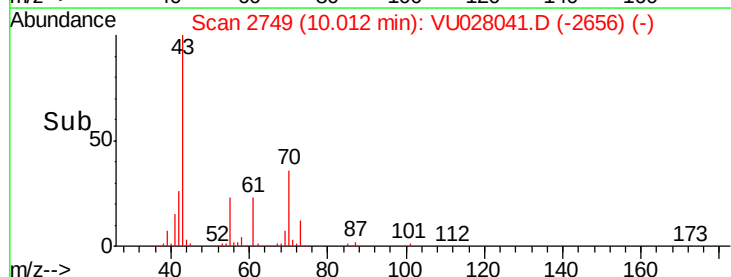
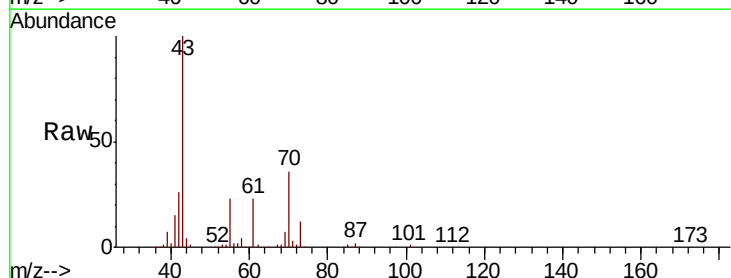
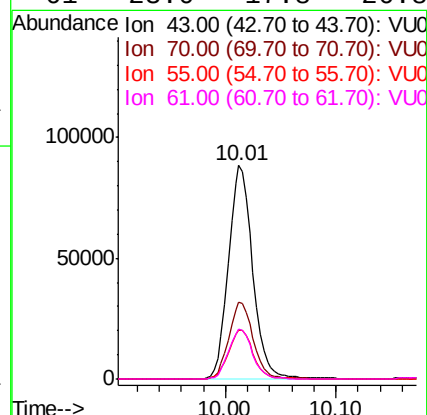
Ion Ratio Lower Upper

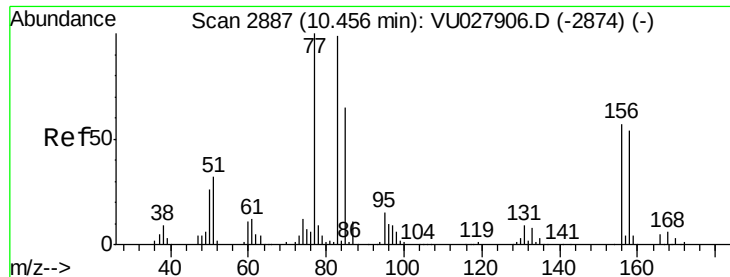
43 100

70 35.7 29.2 43.8

55 22.9 17.8 26.6

61 23.0 17.8 26.8





#75

1,1,2,2-Tetrachloroethane

Concen: 20.148 ug/l

RT: 10.46 min Scan# 2887

Delta R.T. -0.00 min

Lab File: VU028041.D

Acq: 09 Nov 2018 13:50

Instrument :

MSVOA_U

ClientSampled :

VU1109WBSD01

Tot Ion: 83 Resp: 88380

Ion Ratio Lower Upper

83 100

131 8.6 4.3 13.1

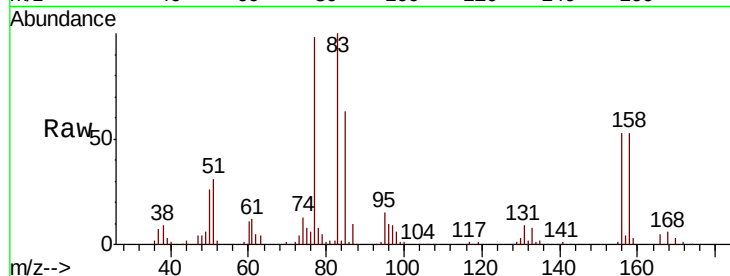
85 64.5 32.4 97.2

Manual Integrations

APPROVED

MMDadoda

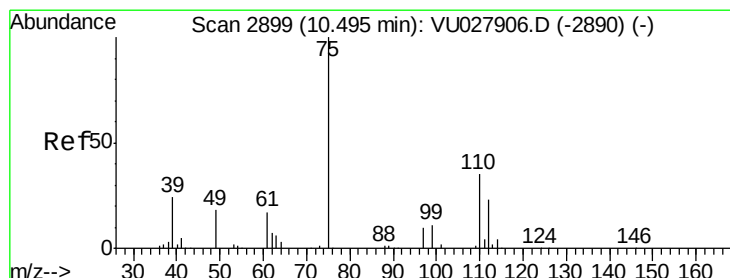
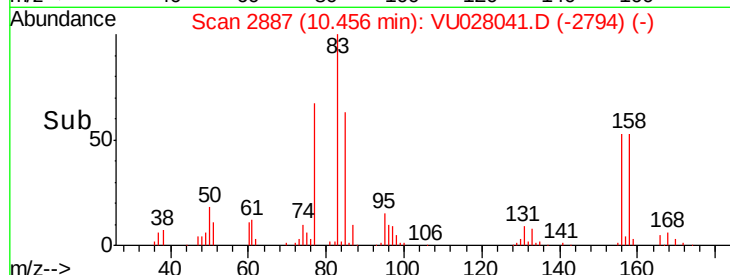
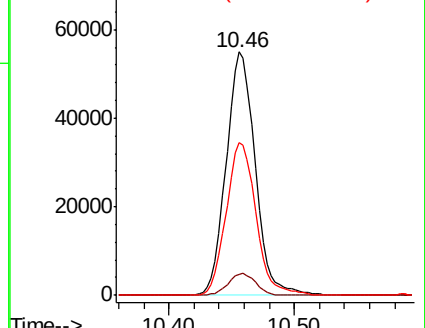
11/12/2018 12:01:56 PM



Abundance Ion 82.90 (82.60 to 83.60): VU028041.D (-2794) (-)

Ion 130.80 (130.50 to 131.50): VU028041.D (-2794) (-)

Ion 84.90 (84.60 to 85.60): VU028041.D (-2794) (-)



#76

1,2,3-Trichloropropane

Concen: 19.456 ug/l m

RT: 10.49 min Scan# 2899

Delta R.T. -0.00 min

Lab File: VU028041.D

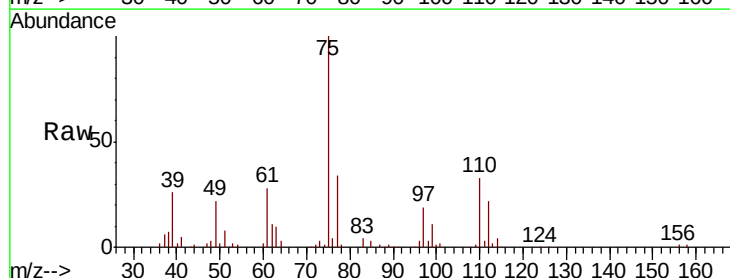
Acq: 09 Nov 2018 13:50

Tgt Ion: 75 Resp: 74704

Ion Ratio Lower Upper

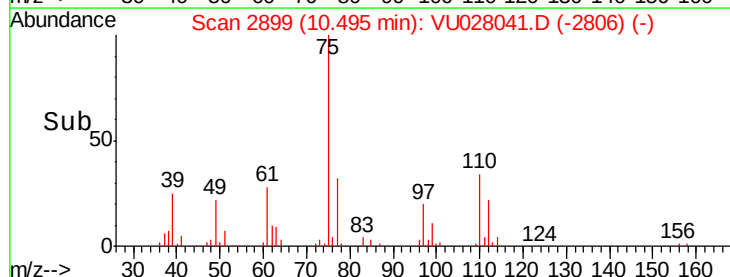
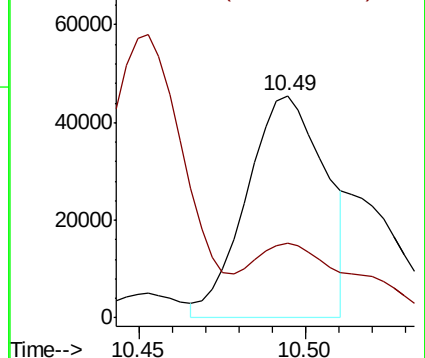
75 100

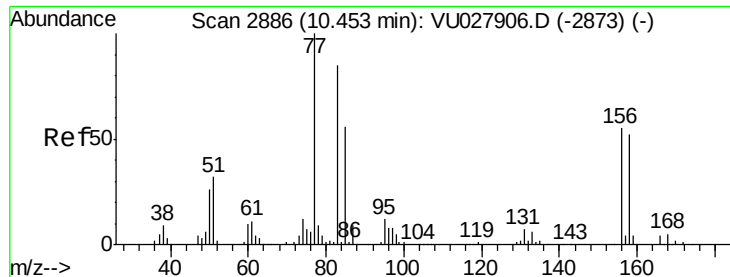
77 46.1 21.6 64.6



Abundance Ion 74.90 (74.60 to 75.60): VU028041.D (-2806) (-)

Ion 77.00 (76.70 to 77.70): VU028041.D (-2806) (-)





#77

Bromobenzene

Concen: 20.148 ug/l

RT: 10.45 min Scan# 2886

Delta R.T. -0.00 min

Lab File: VU028041.D

Acq: 09 Nov 2018 13:50

Instrument :

MSVOA_U

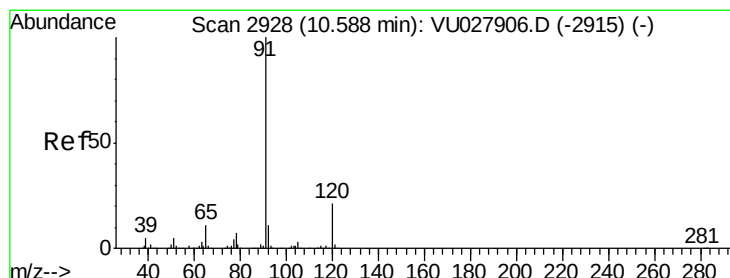
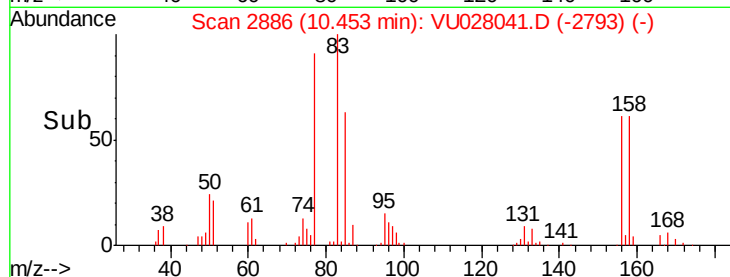
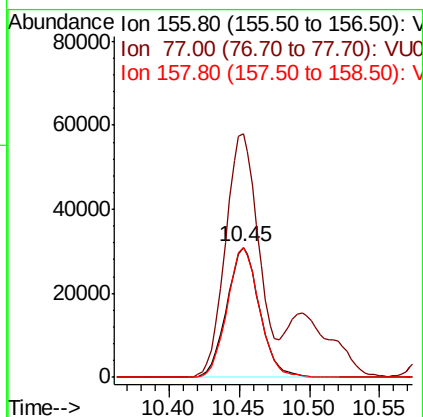
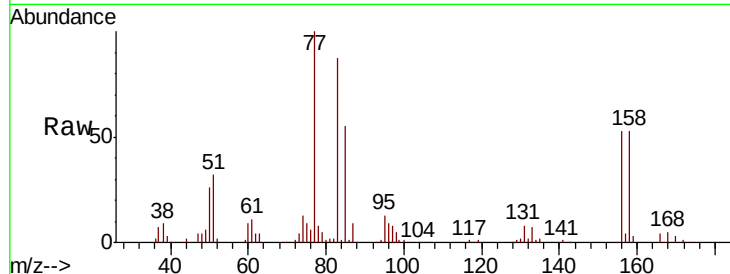
ClientSampleId :

VU1109WBSD01

Tot Ion:	156	Resp:	50241
Ion Ratio	Lower	Upper	
156	100		
77	191.4	91.8	275.6
158	98.3	48.4	145.2

Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:01:56 PM



#78

n-propylbenzene

Concen: 20.668 ug/l

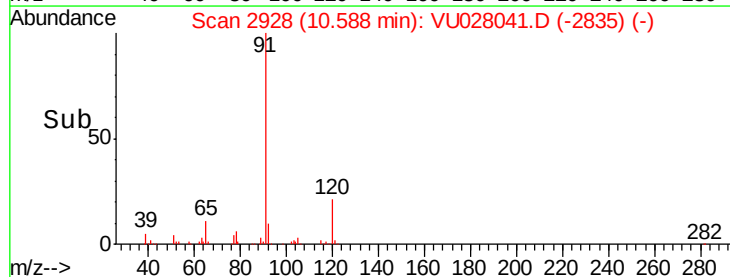
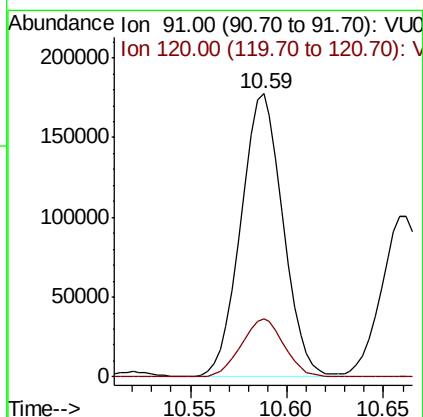
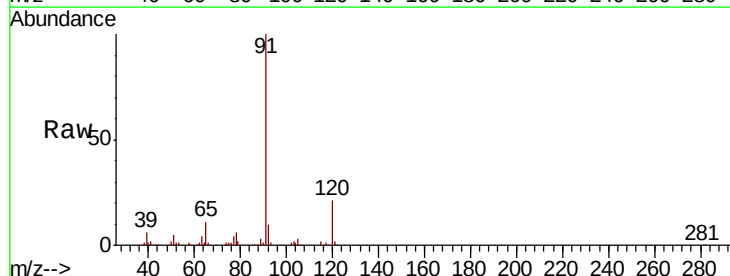
RT: 10.59 min Scan# 2928

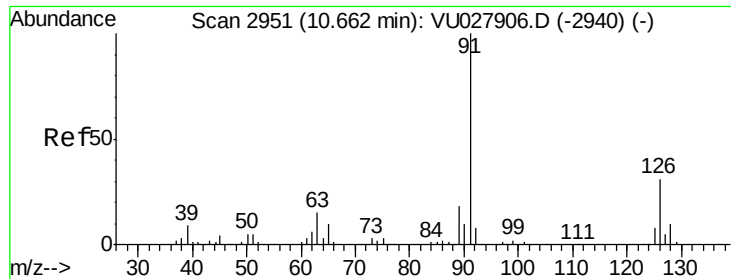
Delta R.T. -0.00 min

Lab File: VU028041.D

Acq: 09 Nov 2018 13:50

Tgt Ion:	91	Resp:	269036
Ion Ratio	Lower	Upper	
91	100		
120	20.8	10.6	31.8





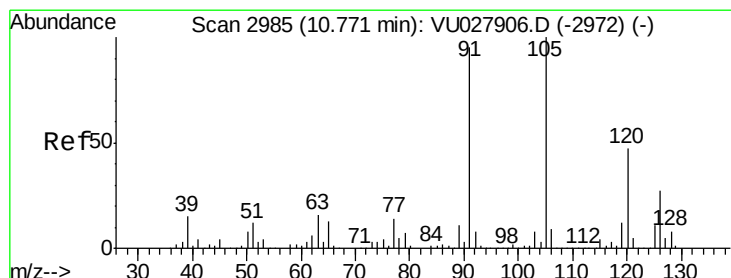
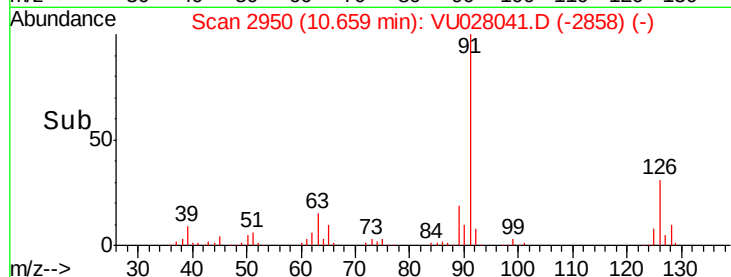
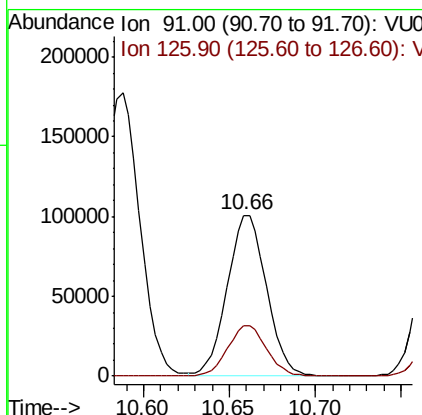
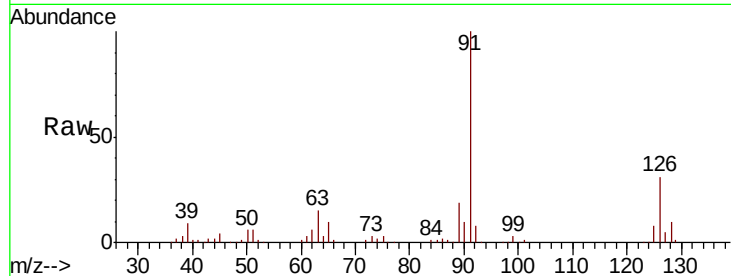
#79
 2-Chlorotoluene
 Concen: 20.418 ug/l
 RT: 10.66 min Scan# 2950
 Delta R.T. -0.00 min
 Lab File: VU028041.D
 Acq: 09 Nov 2018 13:50

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1109WBSD01

Tot Ion: 91 Resp: 159305
 Ion Ratio Lower Upper
 91 100
 126 31.1 16.0 47.9

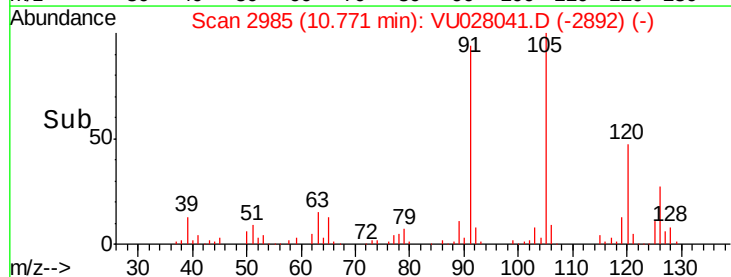
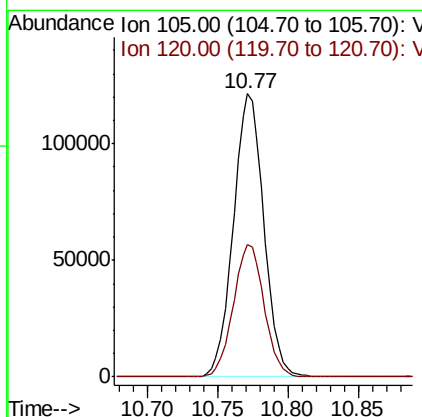
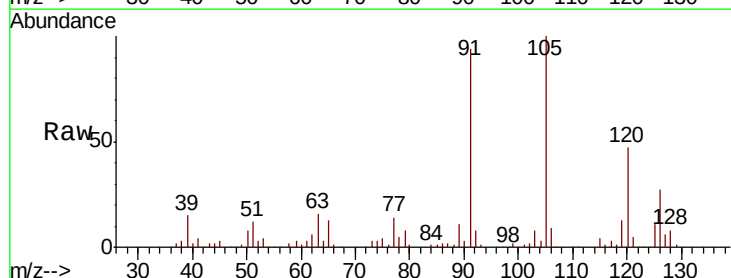
Manual Integrations
 APPROVED

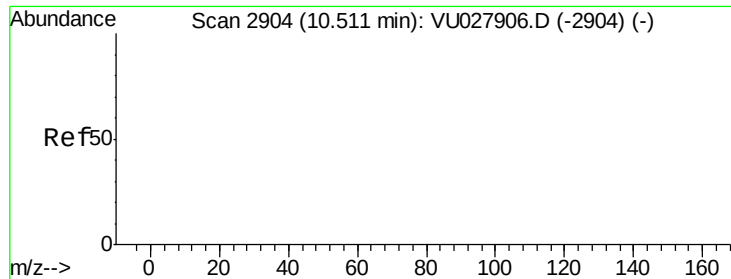
MMDadoda
 11/12/2018 12:01:56 PM



#80
 1,3,5-Trimethylbenzene
 Concen: 20.376 ug/l
 RT: 10.77 min Scan# 2985
 Delta R.T. -0.00 min
 Lab File: VU028041.D
 Acq: 09 Nov 2018 13:50

Tgt Ion: 105 Resp: 183556
 Ion Ratio Lower Upper
 105 100
 120 47.2 23.3 69.9





#81

trans-1,4-Dichloro-2-butene

Concen: 18.679 ug/l m

RT: 10.51 min Scan# 2904

Delta R.T. 0.00 min

Lab File: VU028041.D

Acq: 09 Nov 2018 13:50

Instrument :

MSVOA_U

ClientSampleId :

VU1109WBSD01

Tot Ion: 75 Resp: 28470

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

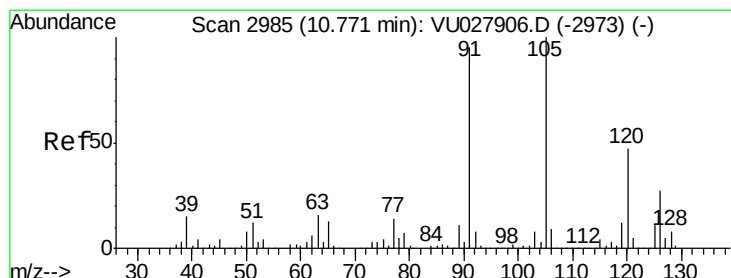
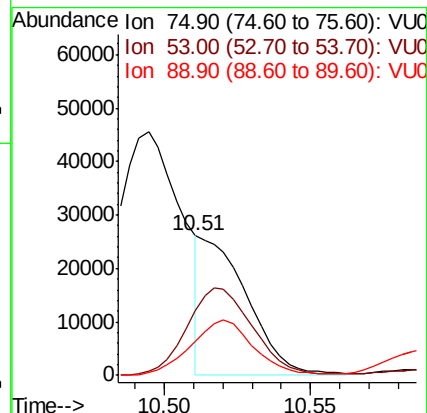
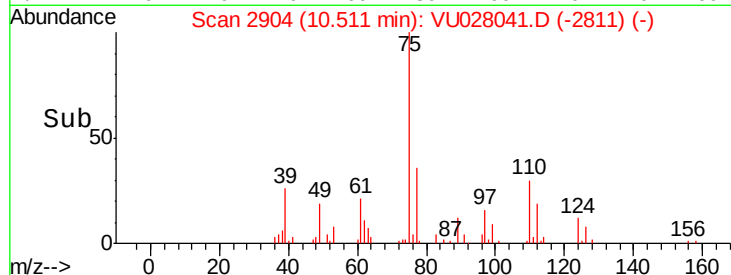
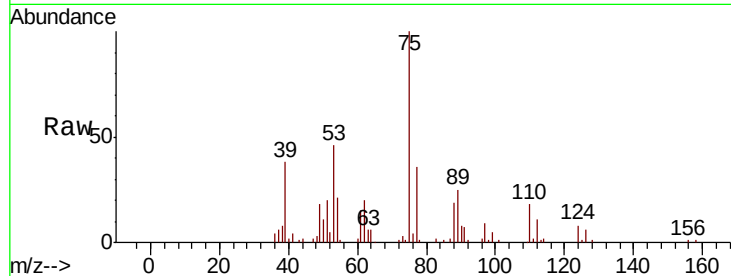
89 0.0 0.0 0.0

Manual Integrations

APPROVED

MMDadoda

11/12/2018 12:01:56 PM



#82

4-Chlorotoluene

Concen: 20.070 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. -0.00 min

Lab File: VU028041.D

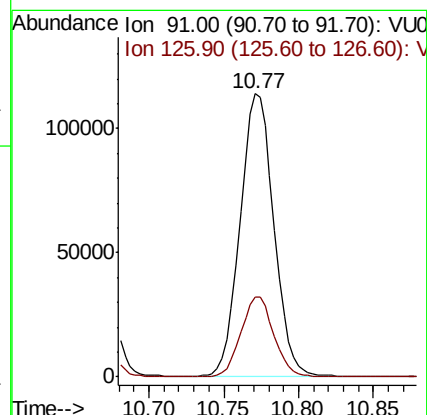
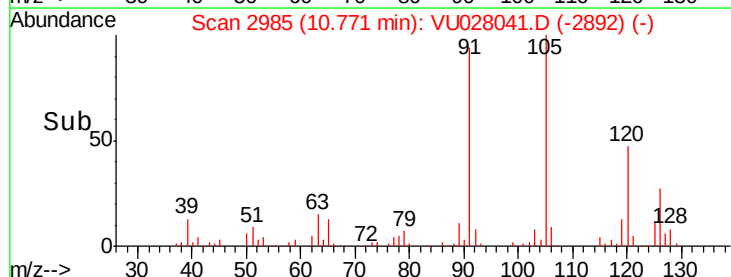
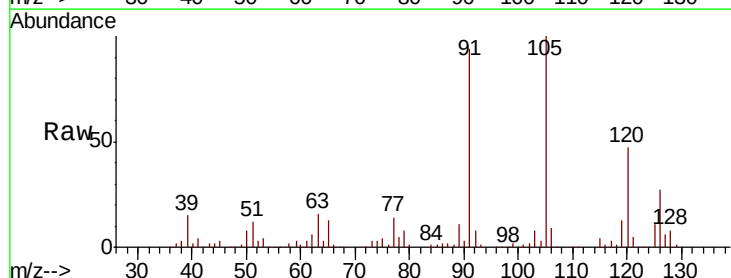
Acq: 09 Nov 2018 13:50

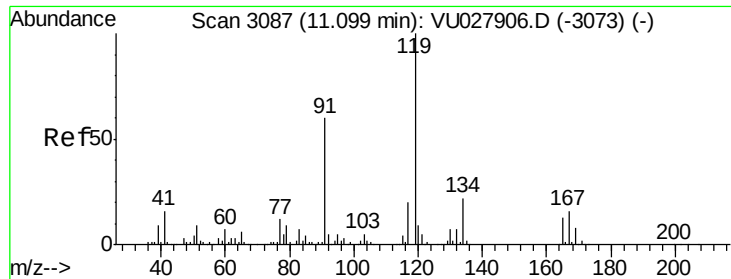
Tgt Ion: 91 Resp: 177777

Ion Ratio Lower Upper

91 100

126 27.9 14.2 42.6





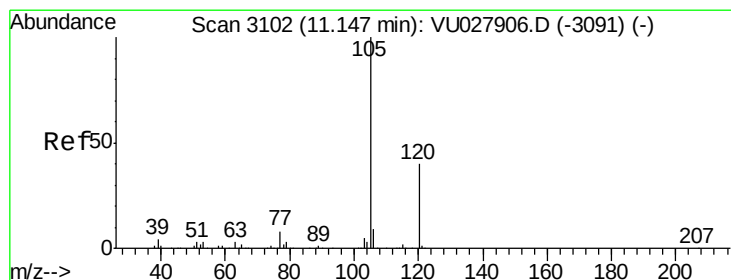
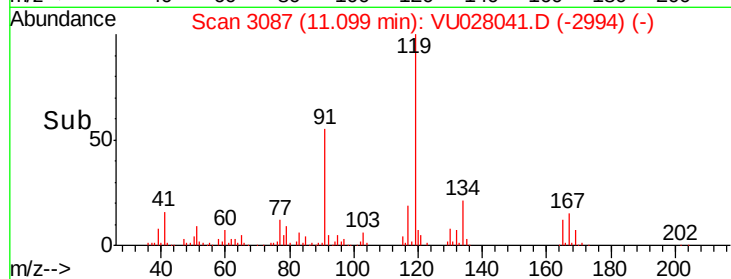
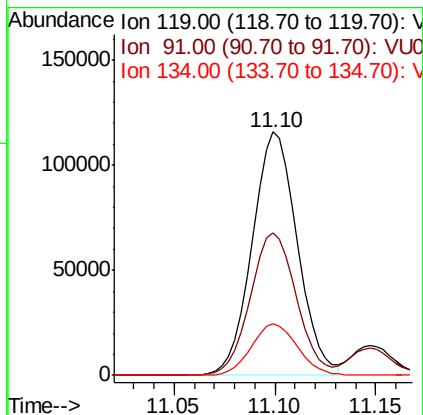
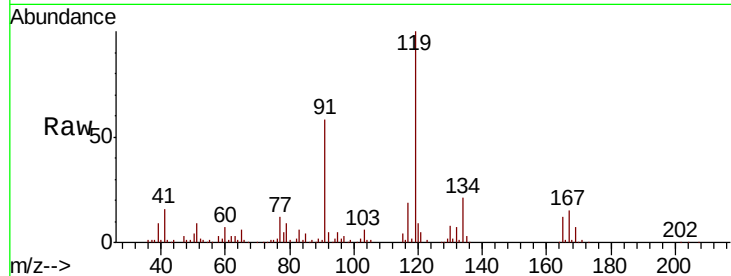
#83
tert-Butylbenzene
Concen: 20.144 ug/l
RT: 11.10 min Scan# 3087
Delta R.T. -0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBSD01

Tot Ion	Ratio	Lower	Upper
119	100		
91	59.8	29.8	89.3
134	21.7	11.1	33.1

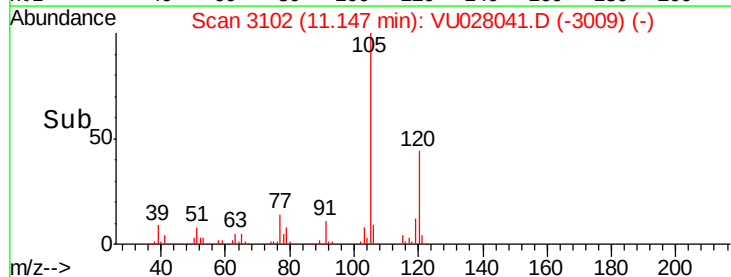
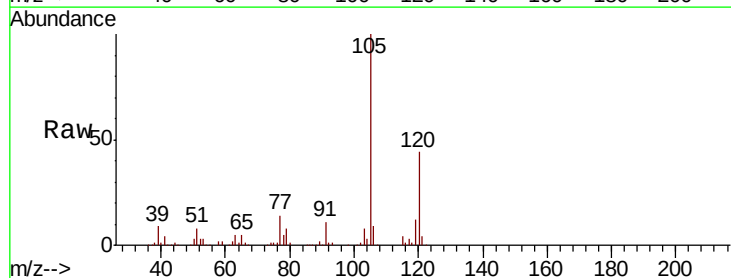
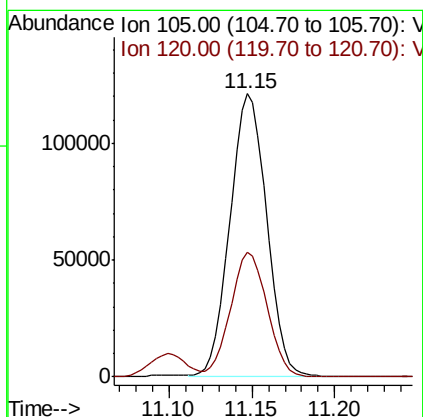
Manual Integrations
APPROVED

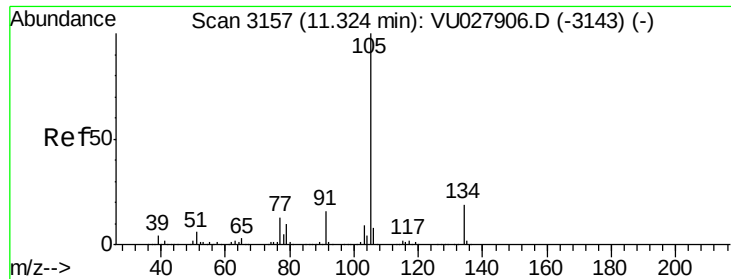
MMDadoda
11/12/2018 12:01:56 PM



#84
1,2,4-Trimethylbenzene
Concen: 20.411 ug/l
RT: 11.15 min Scan# 3102
Delta R.T. -0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.3	22.1	66.1





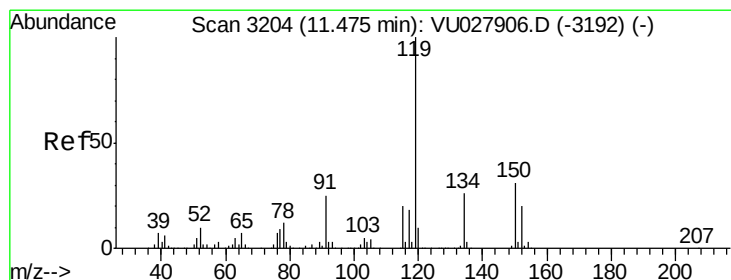
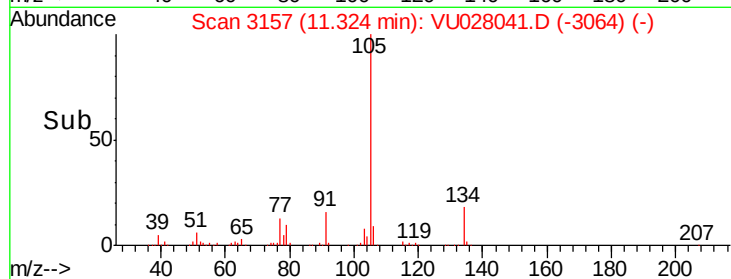
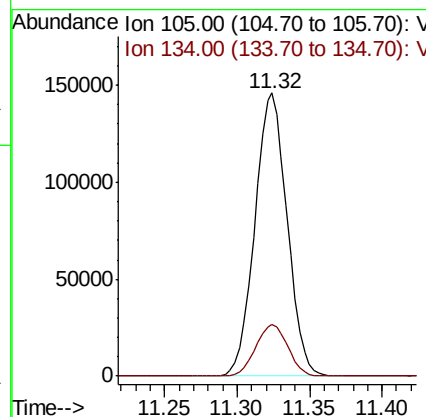
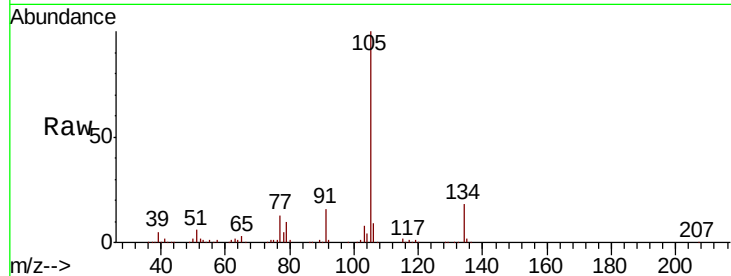
#85
 sec-Butylbenzene
 Concen: 20.619 ug/l
 RT: 11.32 min Scan# 3157
 Delta R.T. -0.00 min
 Lab File: VU028041.D
 Acq: 09 Nov 2018 13:50

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1109WBSD01

Tot Ion	Ratio	Lower	Upper
105	100		
134	18.3	9.2	27.6

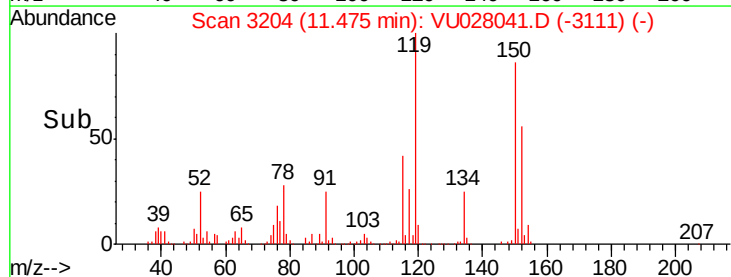
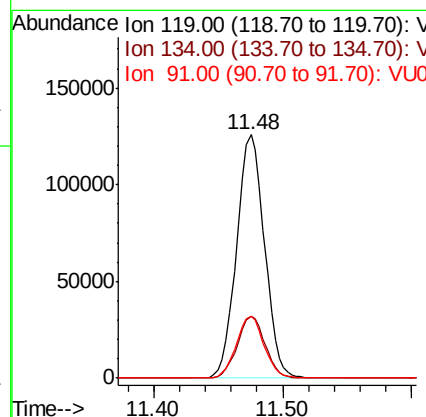
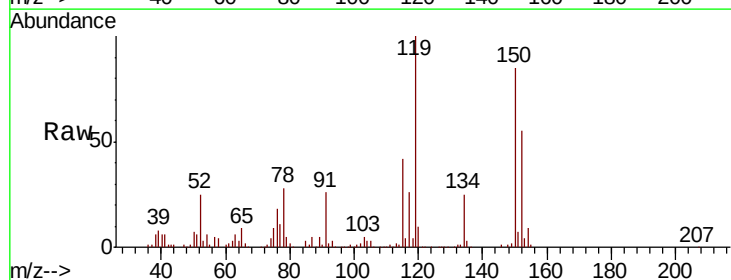
Manual Integrations
 APPROVED

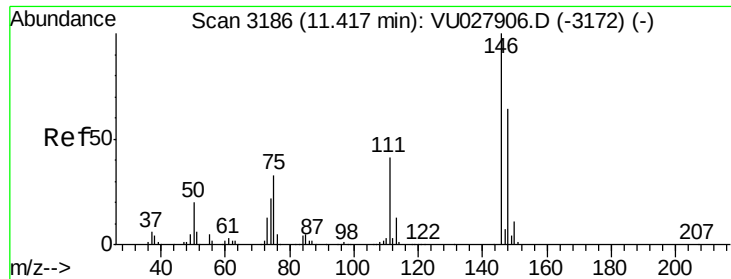
MMDadoda
 11/12/2018 12:01:56 PM



#86
 p-Isopropyltoluene
 Concen: 20.632 ug/l
 RT: 11.48 min Scan# 3204
 Delta R.T. -0.00 min
 Lab File: VU028041.D
 Acq: 09 Nov 2018 13:50

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.1	12.9	38.7
91	25.4	12.4	37.2





#87

1,3-Dichlorobenzene

Concen: 20.278 ug/l

RT: 11.42 min Scan# 3186

Delta R.T. -0.00 min

Lab File: VU028041.D

Acq: 09 Nov 2018 13:50

Instrument :

MSVOA_U

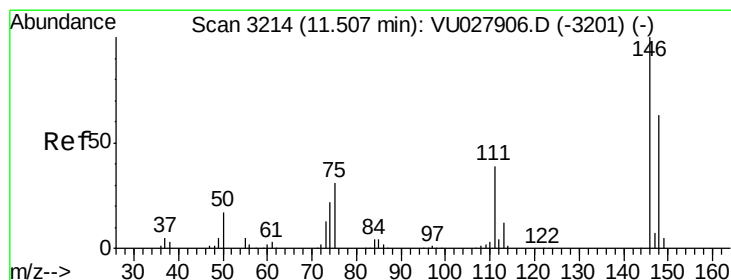
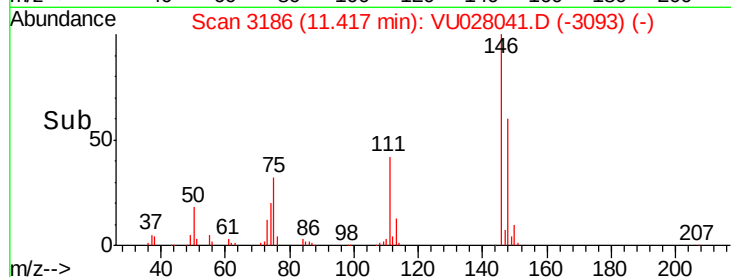
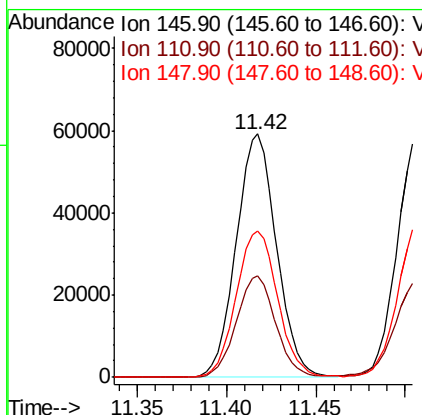
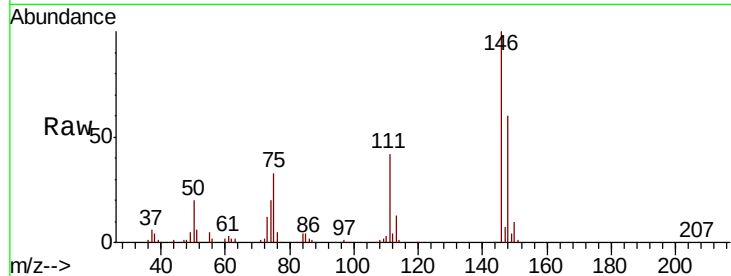
ClientSampleId :

VU1109WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.0	20.3	61.0
148	62.0	31.8	95.4

Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:01:56 PM



#88

1,4-Dichlorobenzene

Concen: 19.871 ug/l

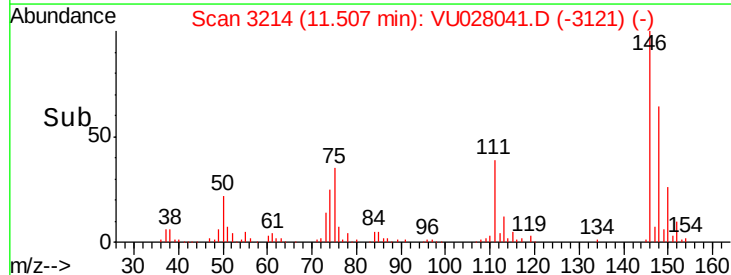
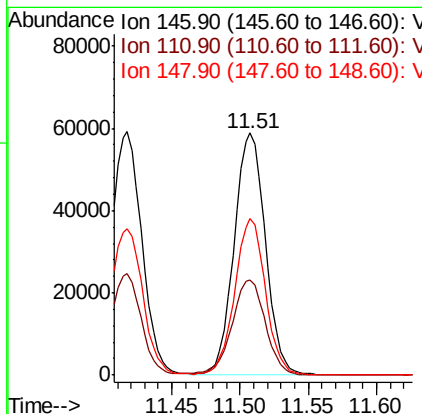
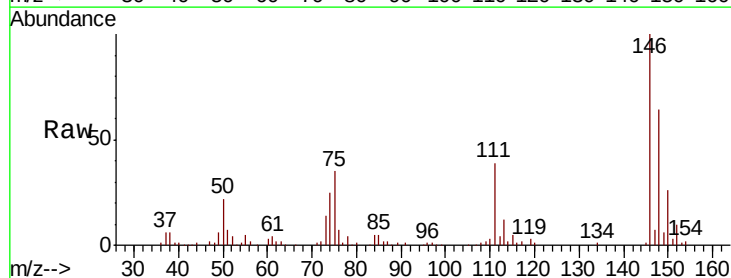
RT: 11.51 min Scan# 3214

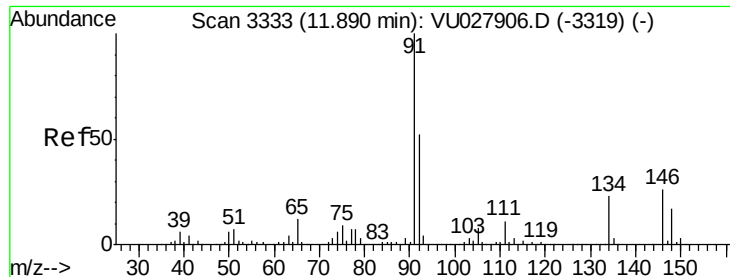
Delta R.T. -0.00 min

Lab File: VU028041.D

Acq: 09 Nov 2018 13:50

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.1	20.3	60.9
148	63.7	32.0	96.2





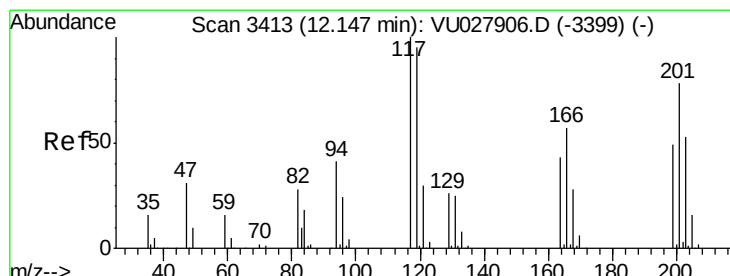
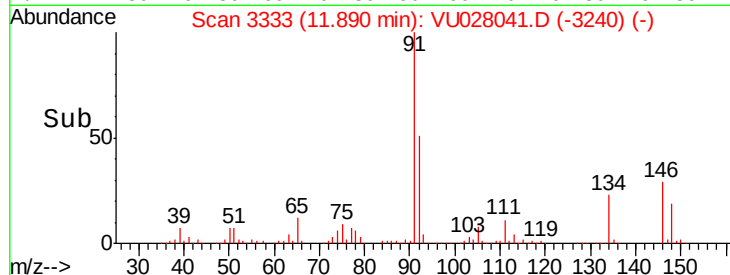
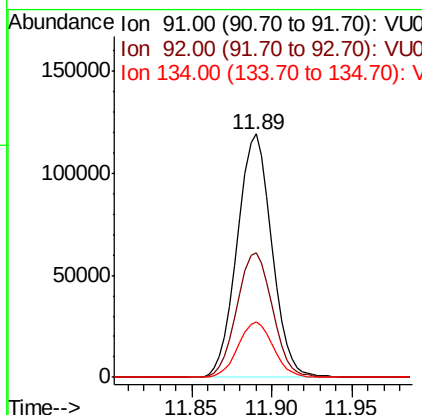
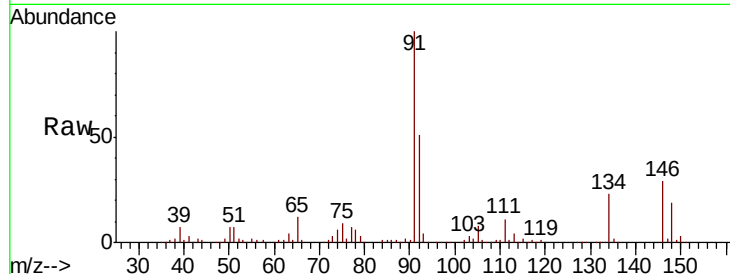
#89
n-Butylbenzene
Concen: 20.253 ug/l
RT: 11.89 min Scan# 3333
Delta R.T. -0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.6	26.2	78.5
134	22.9	11.5	34.5

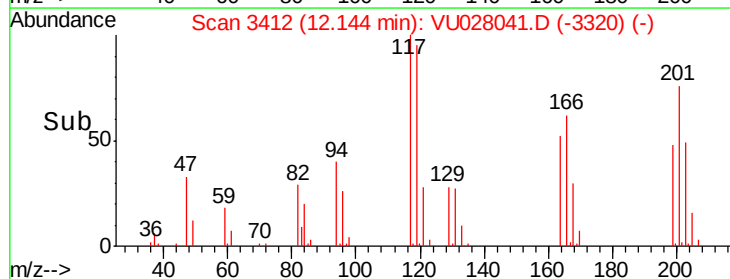
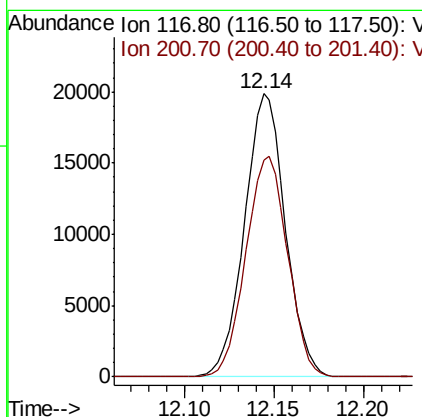
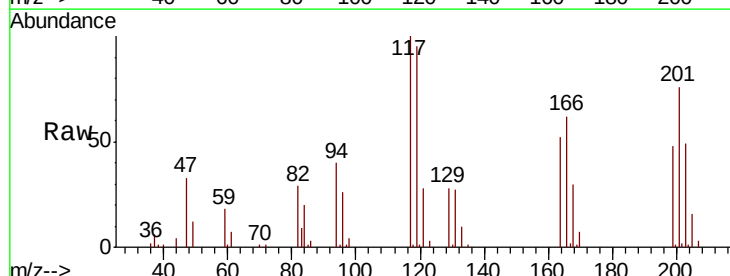
Manual Integrations
APPROVED

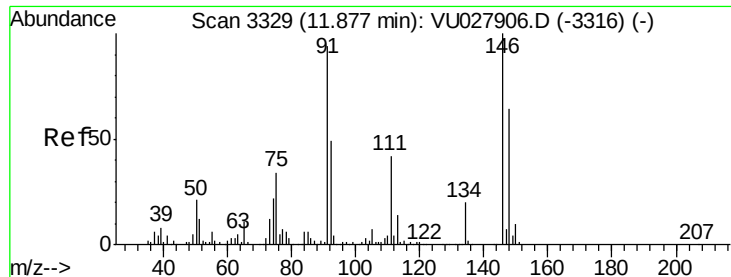
MMDadoda
11/12/2018 12:01:56 PM



#90
Hexachloroethane
Concen: 19.485 ug/l
RT: 12.14 min Scan# 3412
Delta R.T. -0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Tgt Ion	Ratio	Lower	Upper
117	100		
201	79.5	38.5	115.5





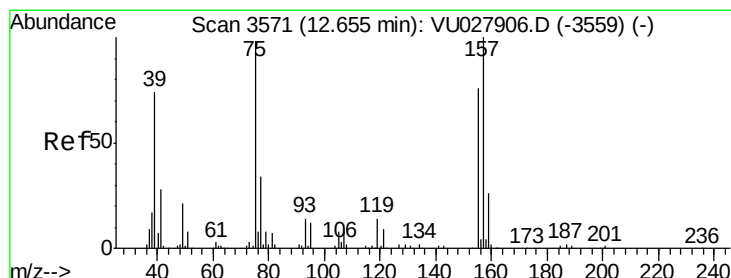
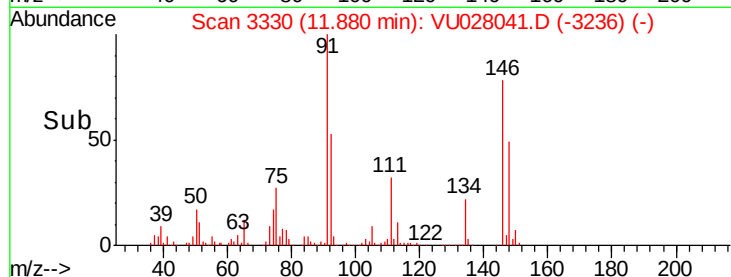
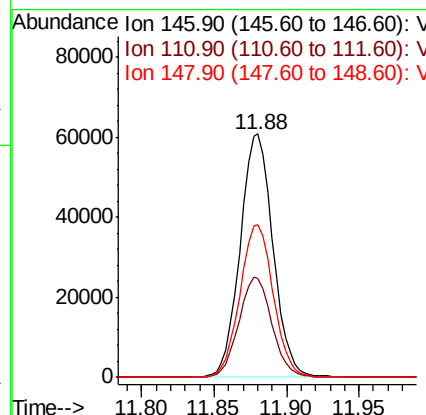
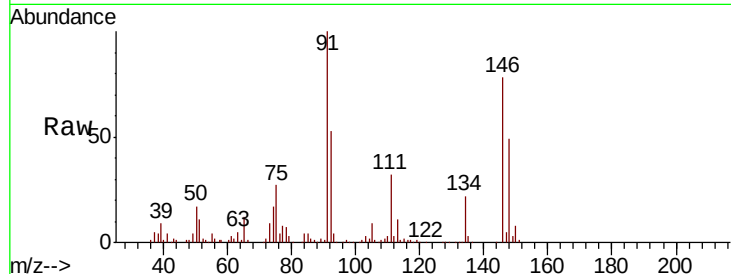
#91
 1,2-Dichlorobenzene
 Concen: 20.723 ug/l
 RT: 11.88 min Scan# 3330
 Delta R.T. 0.00 min
 Lab File: VU028041.D
 Acq: 09 Nov 2018 13:50

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1109WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.5	21.3	64.0
148	63.7	31.8	95.3

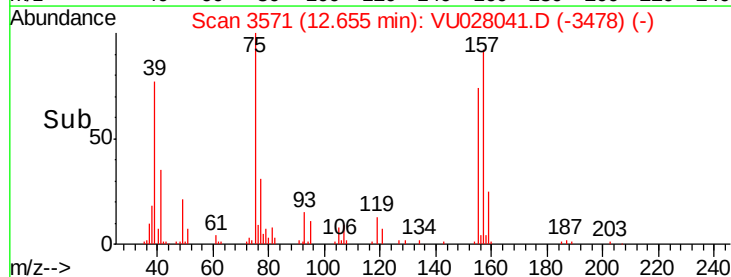
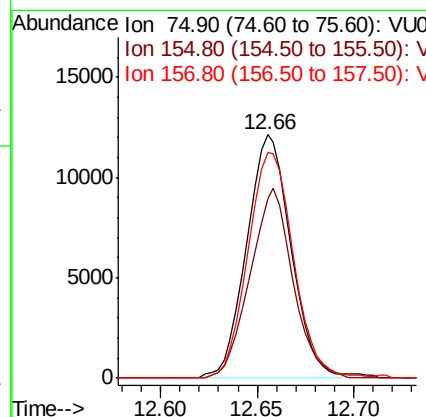
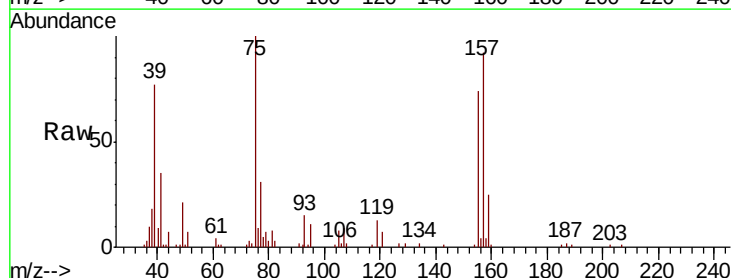
Manual Integrations
 APPROVED

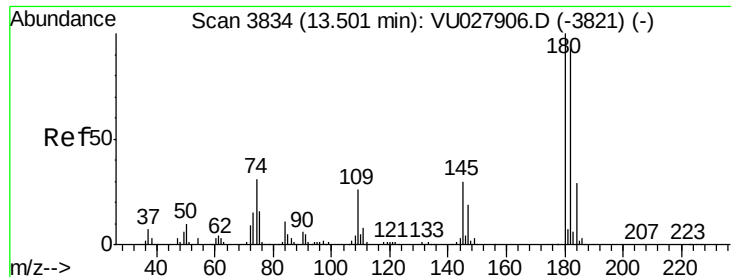
MMDadoda
 11/12/2018 12:01:56 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.909 ug/l
 RT: 12.66 min Scan# 3571
 Delta R.T. -0.00 min
 Lab File: VU028041.D
 Acq: 09 Nov 2018 13:50

Tgt Ion	Ratio	Lower	Upper
75	100		
155	75.3	39.8	119.3
157	95.4	50.6	151.9





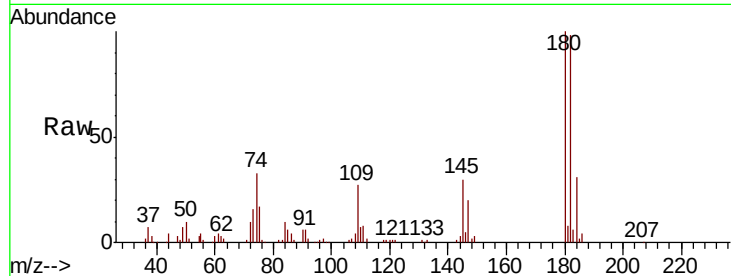
#93
1,2,4-Trichlorobenzene
Concen: 18.795 ug/l
RT: 13.50 min Scan# 3834
Delta R.T. 0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBSD01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.7	48.4	145.2
145	29.0	14.9	44.5

Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:01:56 PM

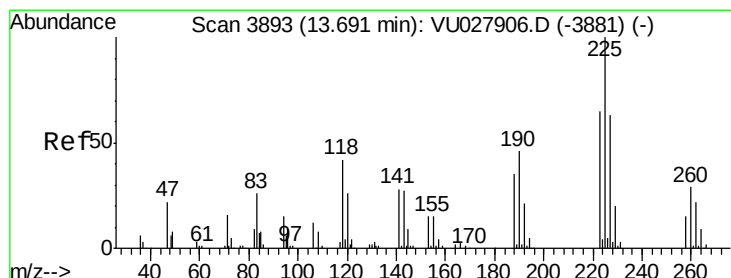
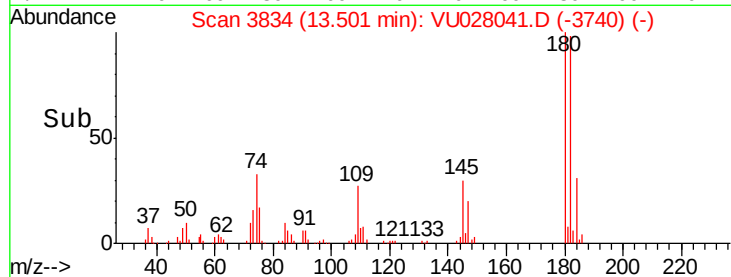
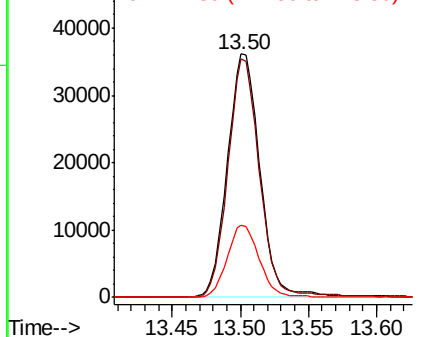


Abundance

Ion 179.80 (179.50 to 180.50): V

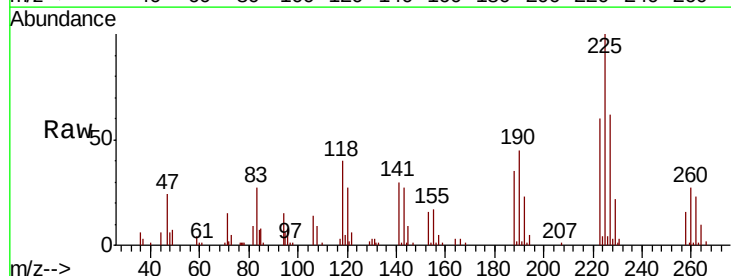
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
Hexachlorobutadiene
Concen: 20.657 ug/l
RT: 13.69 min Scan# 3893
Delta R.T. -0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Tgt Ion	Ratio	Lower	Upper
225	100		
223	60.5	32.2	96.6
227	63.4	32.5	97.4

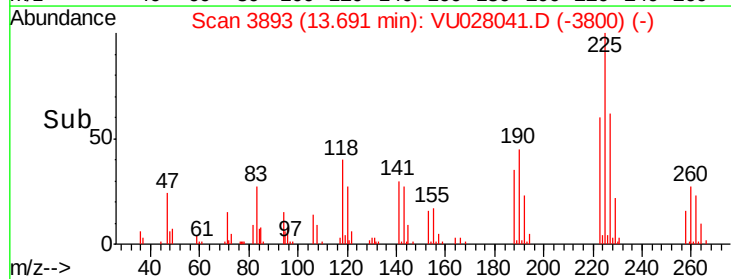
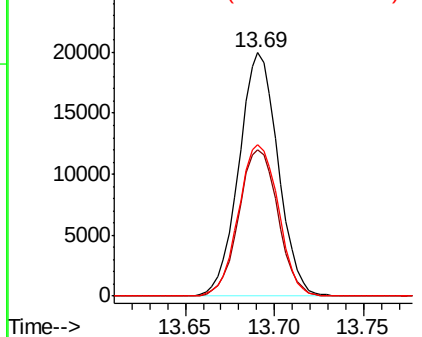


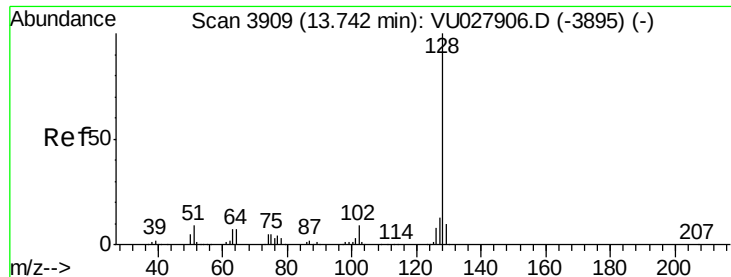
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





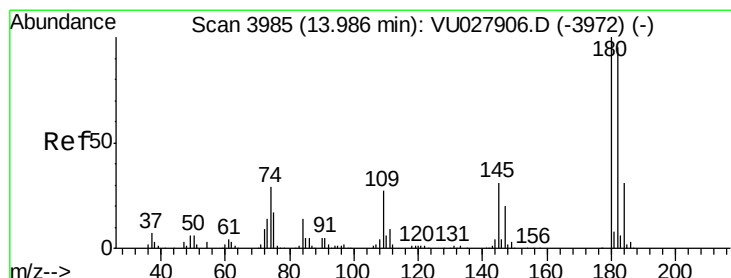
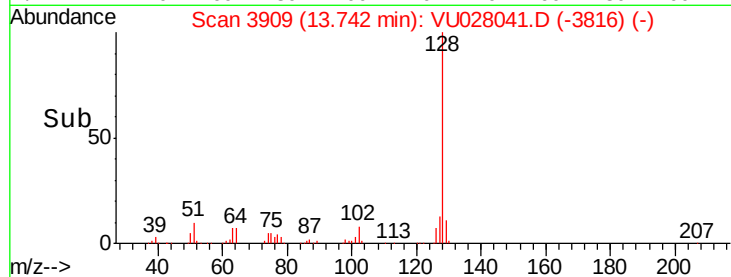
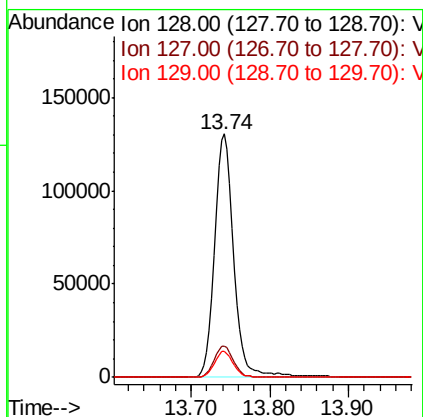
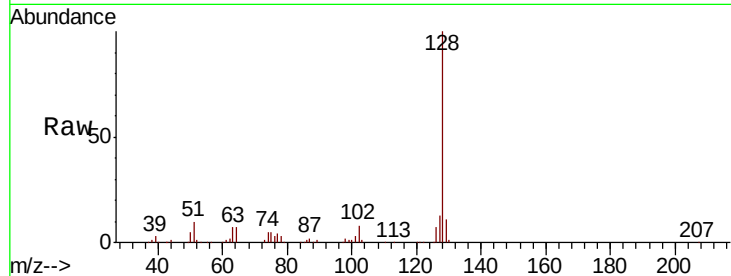
#95
Naphthalene
Concen: 18.952 ug/l
RT: 13.74 min Scan# 3909
Delta R.T. -0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Instrument :
MSVOA_U
ClientSampleId :
VU1109WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	219515		
127	12.8		10.4	15.6
129	10.2		8.3	12.5

Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:01:56 PM



#96
1,2,3-Trichlorobenzene
Concen: 20.037 ug/l
RT: 13.99 min Scan# 3985
Delta R.T. 0.00 min
Lab File: VU028041.D
Acq: 09 Nov 2018 13:50

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	62283		
182	96.1		47.4	142.3
145	31.7		16.0	47.9

