

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121318\
 Data File : VU028610.D
 Acq On : 11 Dec 2018 16:25
 Operator : MD/SY
 Sample : VU1213WBS01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1213WBS01

Manual Integrations
 APPROVED

MMDadoda
 12/12/2018 11:48:57 AM

Quant Time: Dec 12 04:24:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:39:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	79781	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	138396	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	127384	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	58876	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	56230	46.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.36%	
35) Dibromofluoromethane	4.88	113	41626	47.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.58%	
50) Toluene-d8	7.56	98	161078	46.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.50%	
62) 4-Bromofluorobenzene	10.31	95	58431	45.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.76%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.21	85	18951	17.722	ug/l	95
3) Chloromethane	1.33	50	33056	16.814	ug/l	99
4) Vinyl Chloride	1.40	62	24252	17.093	ug/l	100
5) Bromomethane	1.61	94	10075	17.629	ug/l	92
6) Chloroethane	1.69	64	14160	17.629	ug/l	98
7) Trichlorofluoromethane	1.88	101	25863	17.326	ug/l	94
8) Diethyl Ether	2.10	74	11480	16.438	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	2.28	101	14762	16.535	ug/l	97
10) Methyl Iodide	2.41	142	13878	19.812	ug/l	99
11) Tert butyl alcohol	2.83	59	25083	92.470	ug/l	98
12) 1,1-Dichloroethene	2.28	96	14814	16.677	ug/l	94
13) Acrolein	2.19	56	17171	79.406	ug/l	98
14) Allyl chloride	2.59	41	35080	16.694	ug/l	99
15) Acrylonitrile	2.94	53	66688	88.552	ug/l	99
16) Acetone	2.32	43	69540	87.529	ug/l	98
17) Carbon Disulfide	2.48	76	52210	16.316	ug/l	100
18) Methyl Acetate	2.62	43	38476	18.682	ug/l	98
19) Methyl tert-butyl Ether	3.00	73	57728	17.144	ug/l	98
20) Methylene Chloride	2.70	84	18672	15.943	ug/l	97
21) trans-1,2-Dichloroethene	2.98	96	16883	16.881	ug/l	99
22) Diisopropyl ether	3.57	45	71350	17.460	ug/l	99
23) Vinyl Acetate	3.52	43	296530	87.974	ug/l	99
24) 1,1-Dichloroethane	3.44	63	36111	16.882	ug/l	99
25) 2-Butanone	4.26	43	96726	89.088	ug/l	99
26) 2,2-Dichloropropane	4.23	77	28951	17.081	ug/l	100
27) cis-1,2-Dichloroethene	4.23	96	19638	17.348	ug/l	99
28) Bromochloromethane	4.55	49	15843	16.292	ug/l	94
29) Tetrahydrofuran	4.64	42	62747	89.985	ug/l	98
30) Chloroform	4.67	83	33188	17.802	ug/l	97
31) Cyclohexane	5.00	56	36802	16.836	ug/l	94
32) 1,1,1-Trichloroethane	4.92	97	27021	17.451	ug/l	98
36) 1,1-Dichloropropene	5.14	75	25233	16.662	ug/l	98
37) Ethyl Acetate	4.38	43	34451	17.597	ug/l	98
38) Carbon Tetrachloride	5.13	117	21278	17.432	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121318\
 Data File : VU028610.D
 Acq On : 11 Dec 2018 16:25
 Operator : MD/SY
 Sample : VU1213WBS01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 VU1213WBS01

Manual Integrations
 APPROVED

MMDadoda
 12/12/2018 11:48:57 AM

Quant Time: Dec 12 04:24:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:39:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.41	83	30279	16.388	ug/l	99
40) Benzene	5.39	78	76517	17.155	ug/l	99
41) Methacrylonitrile	4.55	41	18842	17.574	ug/l	99
42) 1,2-Dichloroethane	5.40	62	28027	17.951	ug/l	97
43) Isopropyl Acetate	5.55	43	54919	17.736	ug/l	99
44) Trichloroethene	6.19	130	17055	17.197	ug/l	100
45) 1,2-Dichloropropane	6.43	63	22238	17.729	ug/l	97
46) Dibromomethane	6.56	93	12949	17.400	ug/l	99
47) Bromodichloromethane	6.76	83	24996	17.260	ug/l	100
48) Methyl methacrylate	6.62	41	27217	17.674	ug/l	98
49) 1,4-Dioxane	6.61	88	9996	411.107	ug/l	96
51) 4-Methyl-2-Pentanone	7.46	43	172980	88.570	ug/l	99
52) Toluene	7.64	92	44956	17.126	ug/l	100
53) t-1,3-Dichloropropene	7.88	75	29265	16.968	ug/l	97
54) cis-1,3-Dichloropropene	7.27	75	32163	17.188	ug/l	99
55) 1,1,2-Trichloroethane	8.06	97	17949	17.298	ug/l	96
56) Ethyl methacrylate	8.02	69	31096	17.500	ug/l	99
57) 1,3-Dichloropropane	8.24	76	33244	17.259	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.13	63	73812	81.099	ug/l	99
59) 2-Hexanone	8.36	43	136040	87.882	ug/l	98
60) Dibromochloromethane	8.48	129	16921	16.656	ug/l	100
61) 1,2-Dibromoethane	8.58	107	19129	17.579	ug/l	99
64) Tetrachloroethene	8.23	164	14650	17.242	ug/l	96
65) Chlorobenzene	9.12	112	46655	17.188	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.21	131	15519	17.904	ug/l	99
67) Ethyl Benzene	9.25	91	84794	16.993	ug/l	98
68) m/p-Xylenes	9.37	106	62459	34.399	ug/l	99
69) o-Xylene	9.78	106	30279	17.160	ug/l	99
70) Styrene	9.79	104	48784	16.706	ug/l	99
71) Bromoform	9.96	173	12992	17.619	ug/l #	99
73) Isopropylbenzene	10.16	105	79704	17.642	ug/l	100
74) N-amyl acetate	10.01	43	46770	17.947	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.46	83	32876	18.944	ug/l	100
76) 1,2,3-Trichloropropane	10.49	75	28091m	18.685	ug/l	
77) Bromobenzene	10.45	156	19221	18.192	ug/l	99
78) n-propylbenzene	10.58	91	98836	17.606	ug/l	99
79) 2-Chlorotoluene	10.66	91	58247	18.013	ug/l	99
80) 1,3,5-Trimethylbenzene	10.77	105	66802	17.863	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.51	75	10089m	16.850	ug/l	
82) 4-Chlorotoluene	10.77	91	65937	17.207	ug/l	100
83) tert-Butylbenzene	11.10	119	63250	17.547	ug/l	98
84) 1,2,4-Trimethylbenzene	11.15	105	68912	17.880	ug/l	100
85) sec-Butylbenzene	11.32	105	80725	17.433	ug/l	100
86) p-Isopropyltoluene	11.47	119	67143	17.069	ug/l	99
87) 1,3-Dichlorobenzene	11.41	146	33967	17.025	ug/l	99
88) 1,4-Dichlorobenzene	11.51	146	33282	16.124	ug/l	94
89) n-Butylbenzene	11.89	91	63567	15.968	ug/l	99
90) Hexachloroethane	12.14	117	10500	17.660	ug/l	96
91) 1,2-Dichlorobenzene	11.88	146	34409	17.242	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.66	75	6753	17.973	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121318\
Data File : VU028610.D
Acq On : 11 Dec 2018 16:25
Operator : MD/SY
Sample : VU1213WBS01
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS01

Manual Integrations
APPROVED

MMDadoda
12/12/2018 11:48:57 AM

Quant Time: Dec 12 04:24:14 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 07 00:39:42 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	21812	16.481	ug/l	99
94) Hexachlorobutadiene	13.69	225	10819	16.550	ug/l	100
95) Naphthalene	13.74	128	73996	15.452	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	21606	15.931	ug/l	98

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

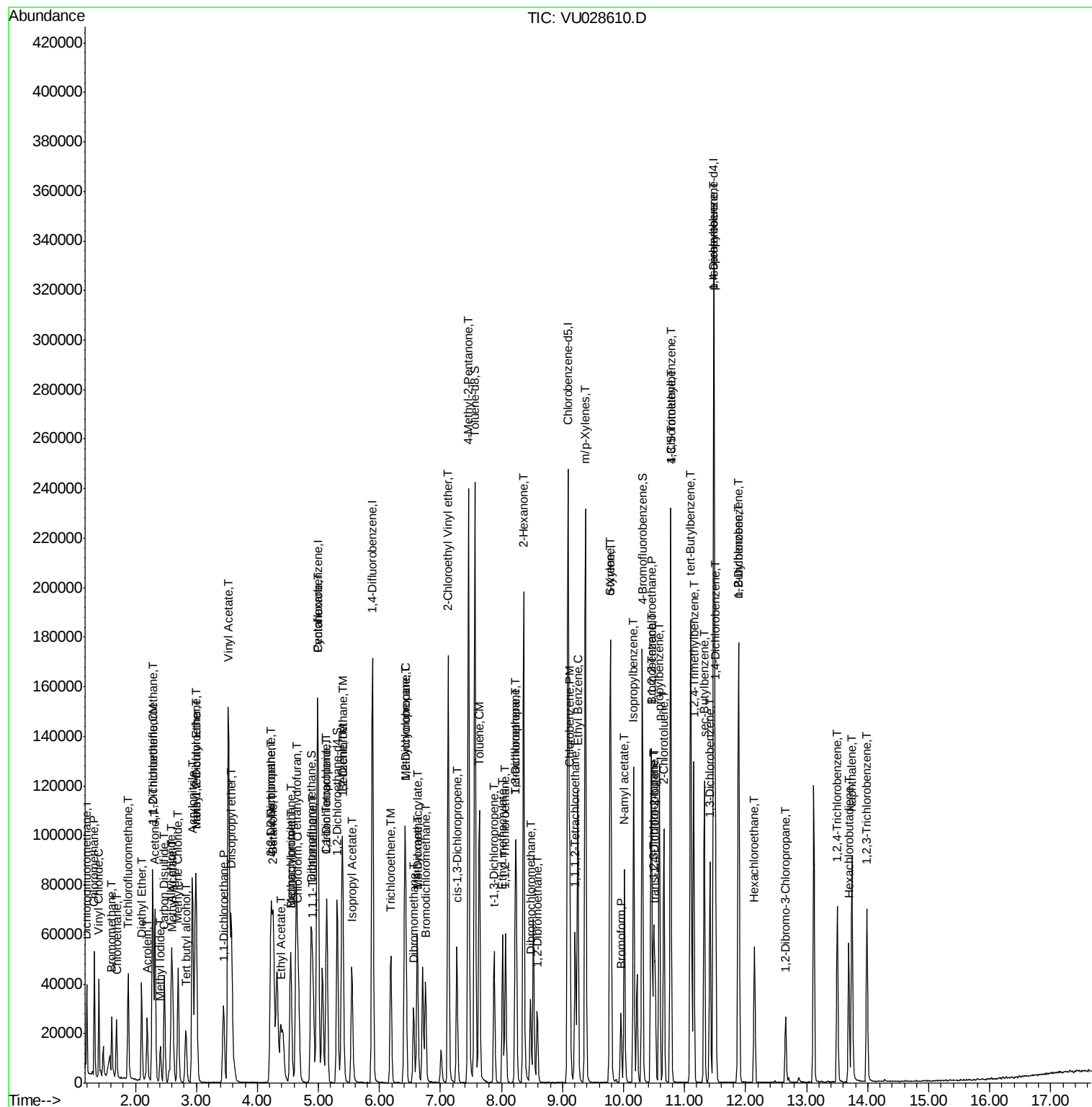
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU121318\
 Data File : VU028610.D
 Acq On : 11 Dec 2018 16:25
 Operator : MD/SY
 Sample : VU1213WBS01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

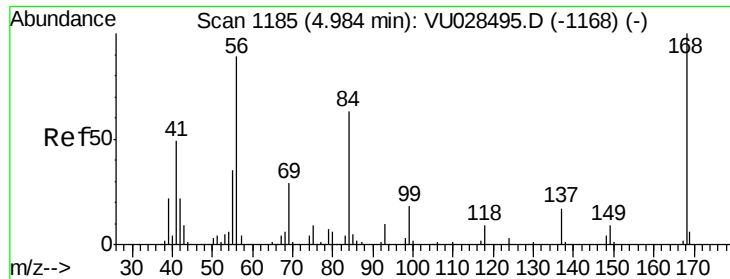
Instrument :
 MSVOA_U
 ClientSampleId :
 VU1213WBS01

Manual Integrations
 APPROVED

MMDadoda
 12/12/2018 11:48:57 AM

Quant Time: Dec 12 04:24:14 2018
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:39:42 2018
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. 0.00 min

Lab File: VU028610.D

Acq: 11 Dec 2018 16:25

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBS01

Tot Ion:168 Resp: 79781

Ion Ratio Lower Upper

168 100

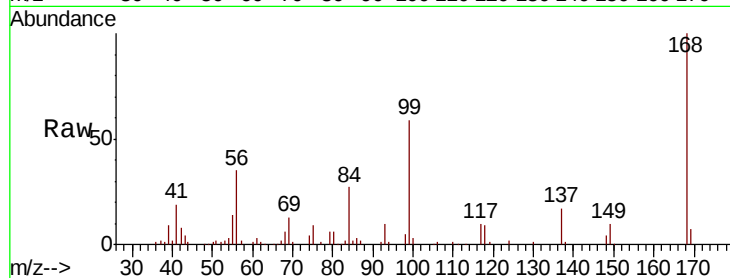
99 58.3 46.6 69.8

Manual Integrations

APPROVED

MMDadoda

12/12/2018 11:48:57 AM



Abundance Ion 167.90 (167.60 to 168.60): VU028495.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028495.D (-1168) (-)

4.98

30000

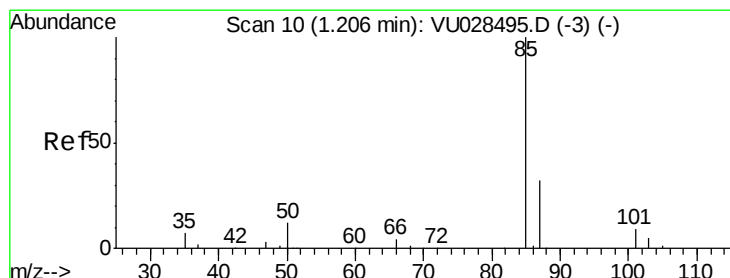
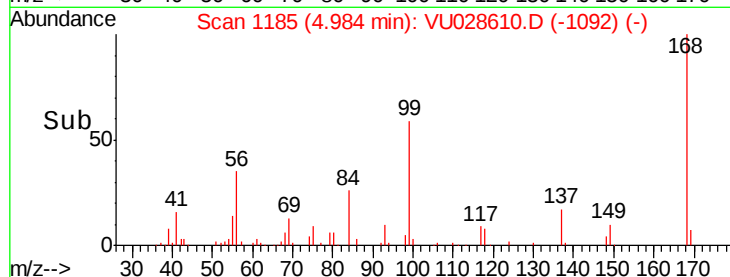
20000

10000

0

4.90 4.95 5.00 5.05

Time-->



#2

Dichlorodifluoromethane

Concen: 17.722 ug/l

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

Lab File: VU028610.D

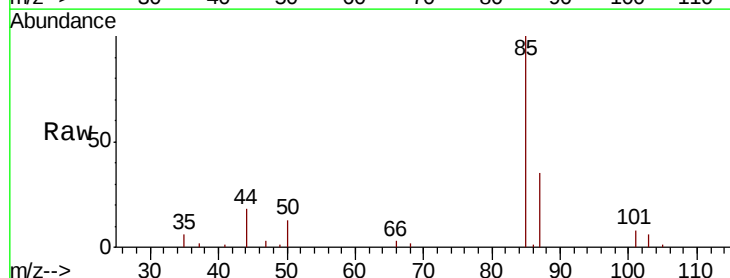
Acq: 11 Dec 2018 16:25

Tgt Ion: 85 Resp: 18951

Ion Ratio Lower Upper

85 100

87 34.5 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VU028495.D (-3) (-)

Ion 86.90 (86.60 to 87.60): VU028495.D (-3) (-)

1.21

20000

15000

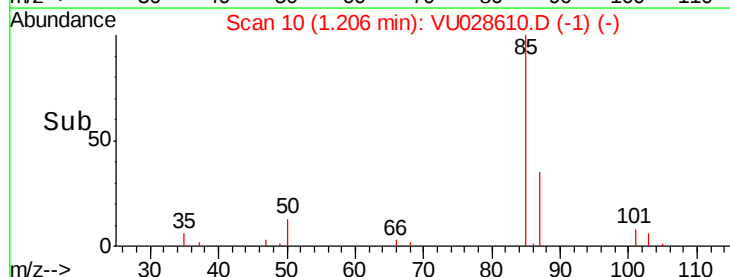
10000

5000

0

1.20 1.21 1.22 1.23

Time-->





#3

Chloromethane

Concen: 16.814 ug/l

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU028610.D

Acq: 11 Dec 2018 16:25

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBS01

Tot Ion: 50 Resp: 33056

Ion Ratio Lower Upper

50 100

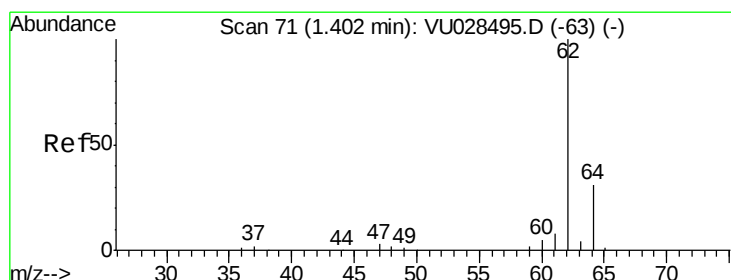
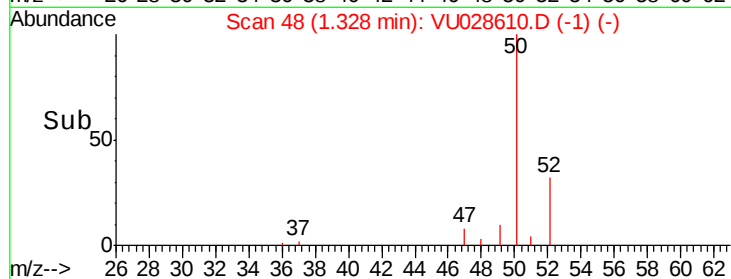
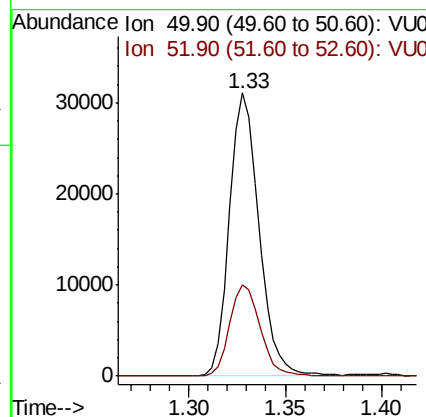
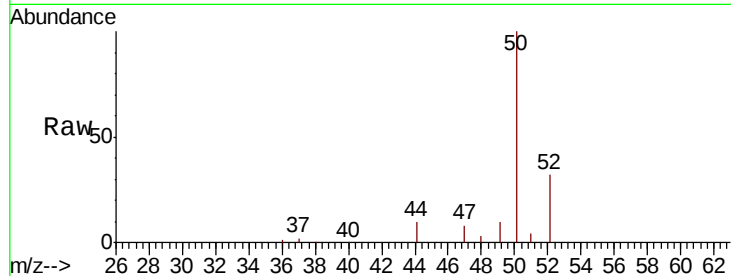
52 32.3 25.5 38.3

Manual Integrations

APPROVED

MMDadoda

12/12/2018 11:48:57 AM



#4

Vinyl Chloride

Concen: 17.093 ug/l

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU028610.D

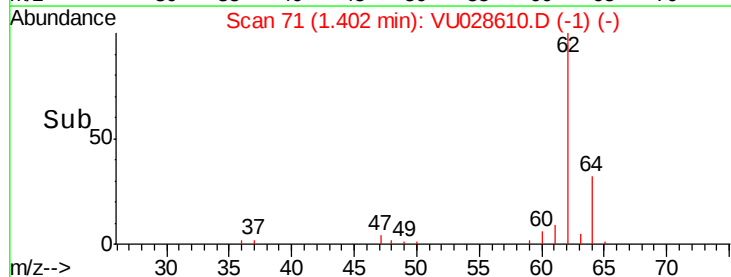
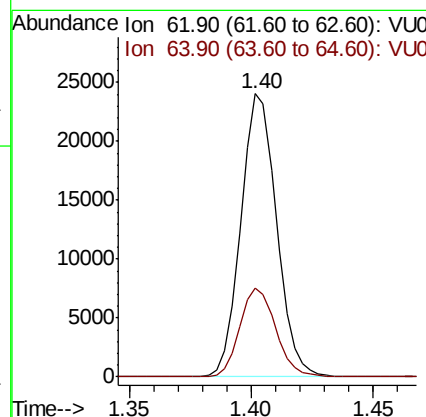
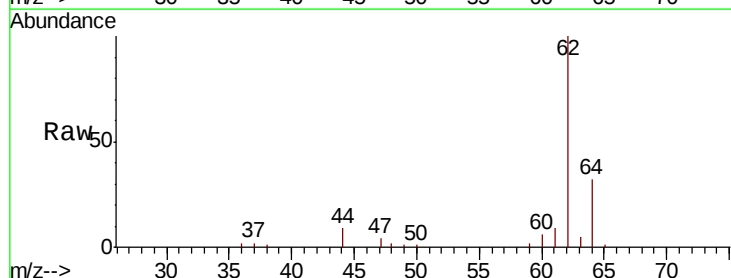
Acq: 11 Dec 2018 16:25

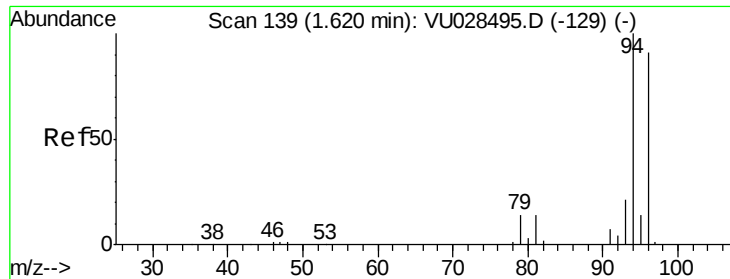
Tgt Ion: 62 Resp: 24252

Ion Ratio Lower Upper

62 100

64 31.6 25.1 37.7





#5

Bromomethane

Concen: 17.629 ug/l

RT: 1.61 min Scan# 137

Delta R.T. -0.01 min

Lab File: VU028610.D

Acq: 11 Dec 2018 16:25

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBS01

Tot Ion: 94 Resp: 10075

Ion Ratio Lower Upper

94 100

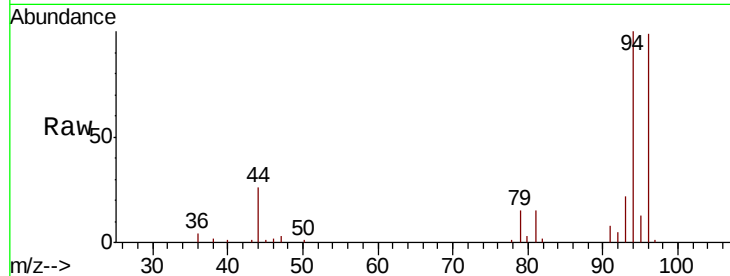
96 99.1 73.2 109.8

Manual Integrations

APPROVED

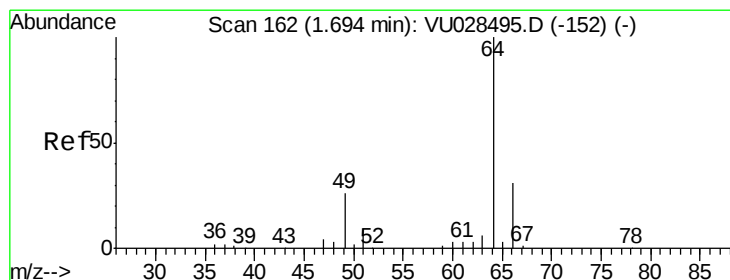
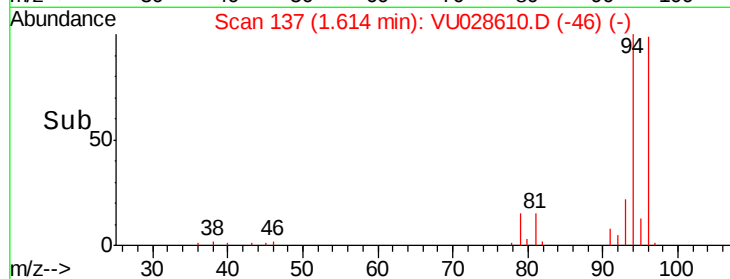
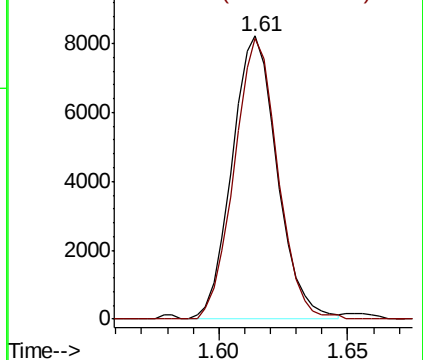
MMDadoda

12/12/2018 11:48:57 AM



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: 17.629 ug/l

RT: 1.69 min Scan# 161

Delta R.T. -0.00 min

Lab File: VU028610.D

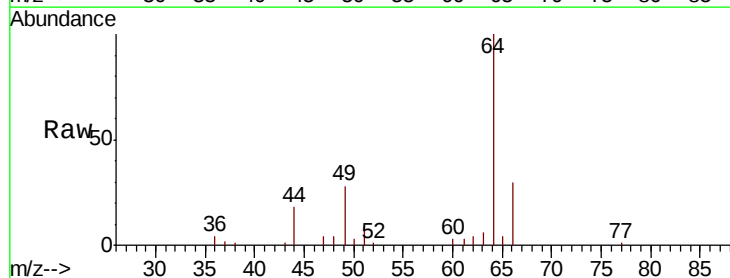
Acq: 11 Dec 2018 16:25

Tgt Ion: 64 Resp: 14160

Ion Ratio Lower Upper

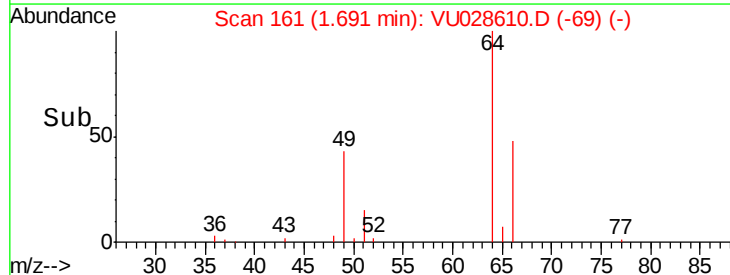
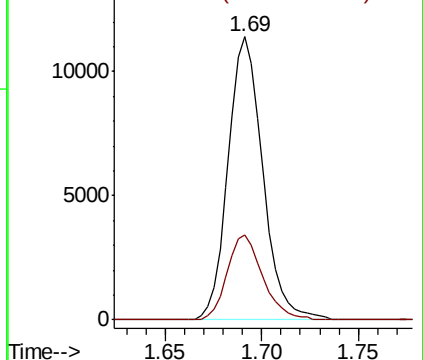
64 100

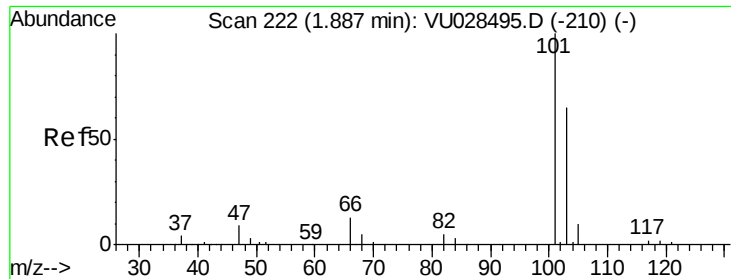
66 30.2 25.0 37.6



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0





#7

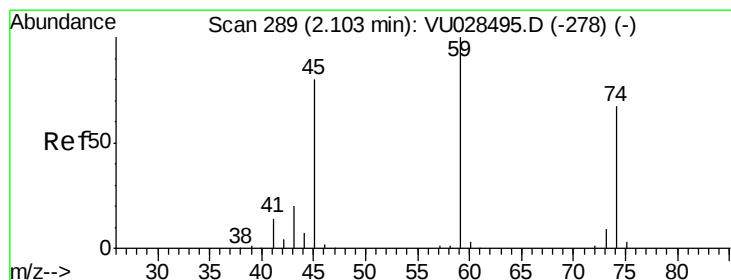
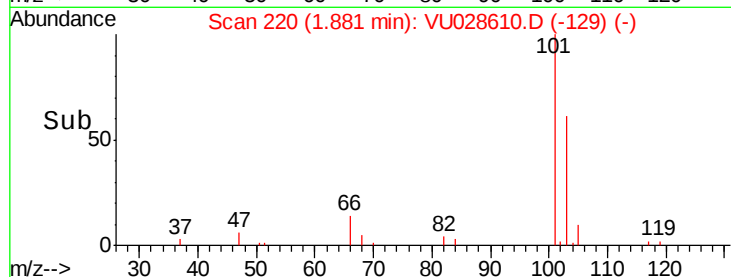
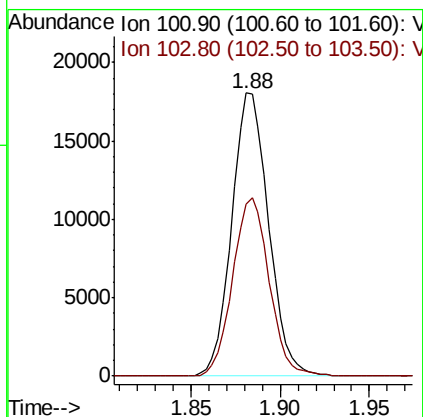
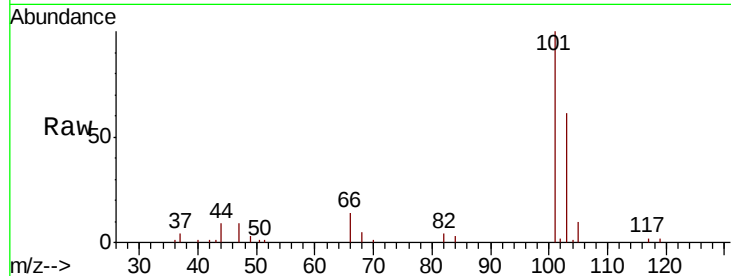
Trichlorofluoromethane
 Concen: 17.326 ug/l
 RT: 1.88 min Scan# 220
 Delta R.T. -0.01 min
 Lab File: VU028610.D
 Acq: 11 Dec 2018 16:25

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1213WBS01

Tot Ion:101 Resp: 25863
 Ion Ratio Lower Upper
 101 100
 103 60.8 52.3 78.5

Manual Integrations
 APPROVED

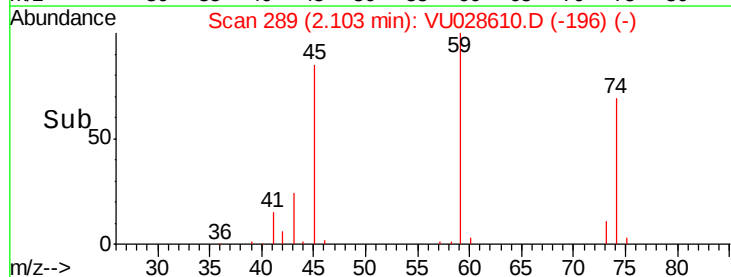
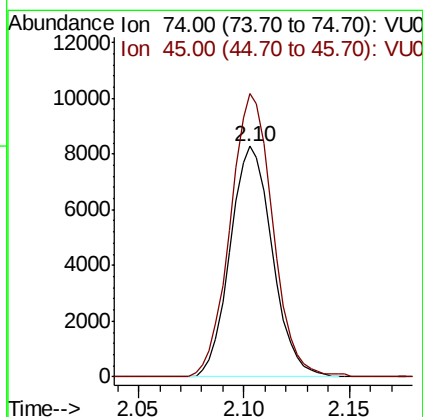
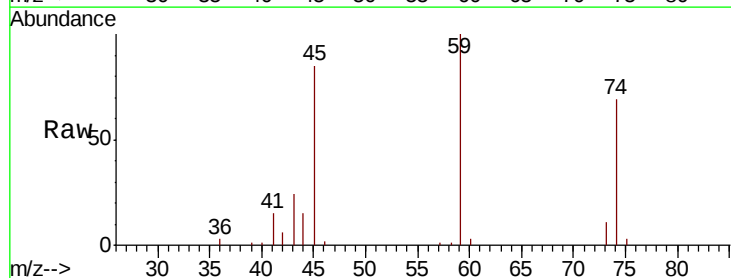
MMDadoda
 12/12/2018 11:48:57 AM

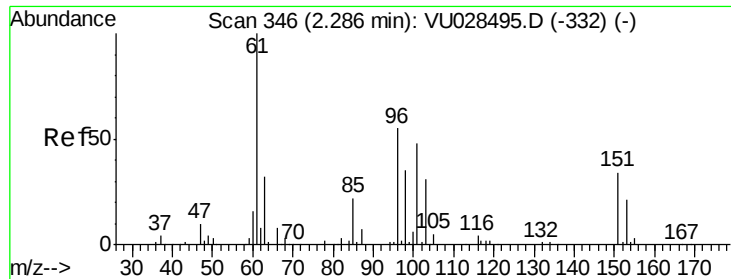


#8

Diethyl Ether
 Concen: 16.438 ug/l
 RT: 2.10 min Scan# 289
 Delta R.T. 0.00 min
 Lab File: VU028610.D
 Acq: 11 Dec 2018 16:25

Tgt Ion: 74 Resp: 11480
 Ion Ratio Lower Upper
 74 100
 45 124.0 59.7 179.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 16.535 ug/l

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU028610.D

Acq: 11 Dec 2018 16:25

Instrument :

MSVOA_U

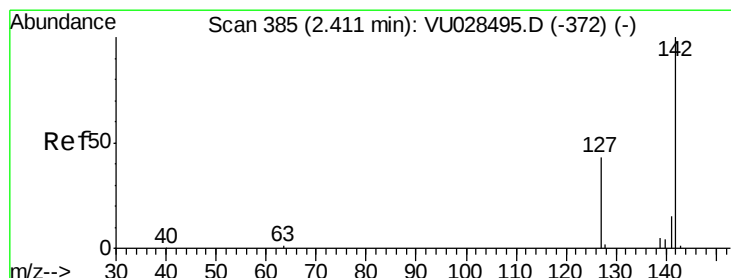
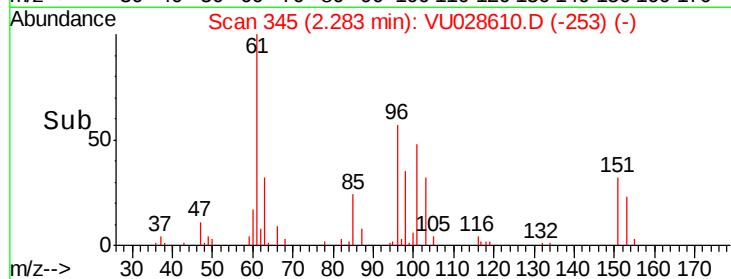
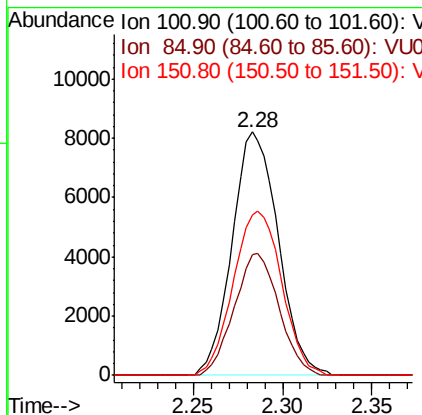
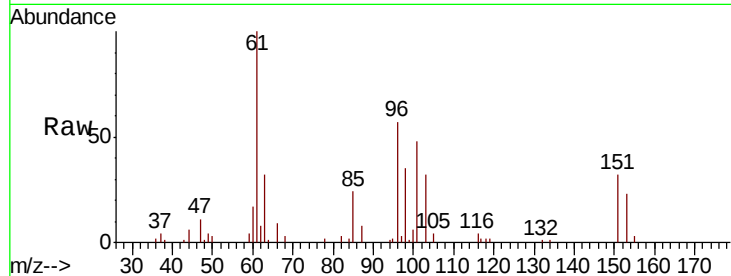
ClientSampleId :

VU1213WBS01

Tot Ion:	101	Resp:	14762
Ion Ratio	Lower	Upper	
101	100		
85	48.6	36.4	54.6
151	70.9	58.2	87.2

Manual Integrations
APPROVED

MMDadoda
12/12/2018 11:48:57 AM



#10

Methyl Iodide

Concen: 19.812 ug/l

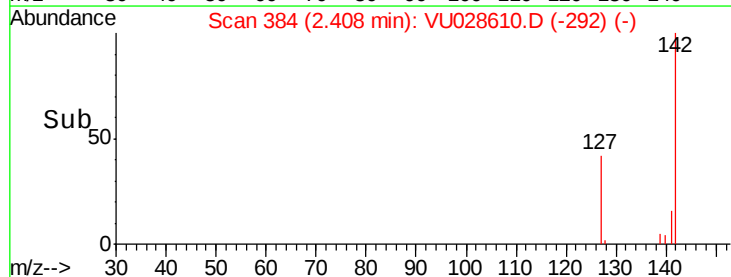
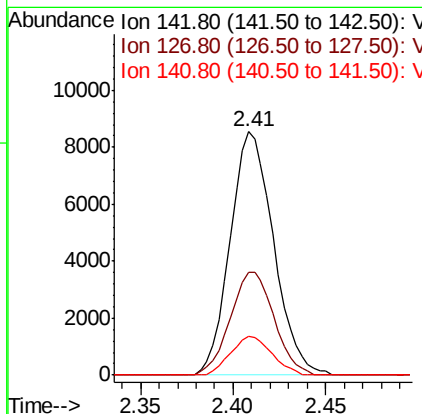
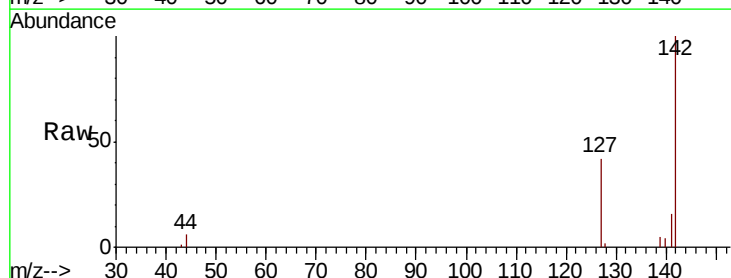
RT: 2.41 min Scan# 384

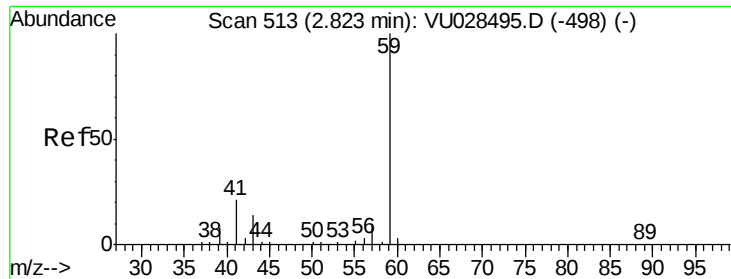
Delta R.T. -0.00 min

Lab File: VU028610.D

Acq: 11 Dec 2018 16:25

Tgt Ion:	142	Resp:	13878
Ion Ratio	Lower	Upper	
142	100		
127	42.6	33.5	50.3
141	15.1	11.2	16.8





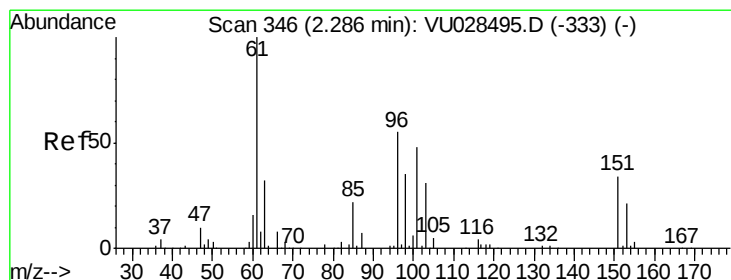
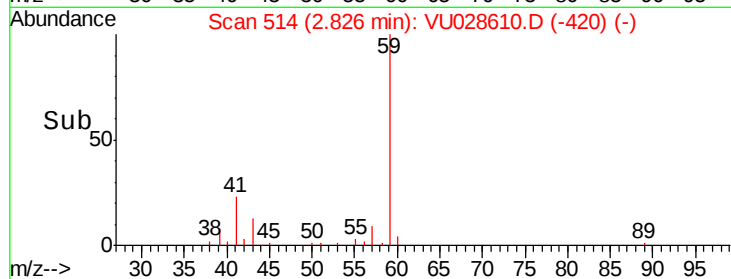
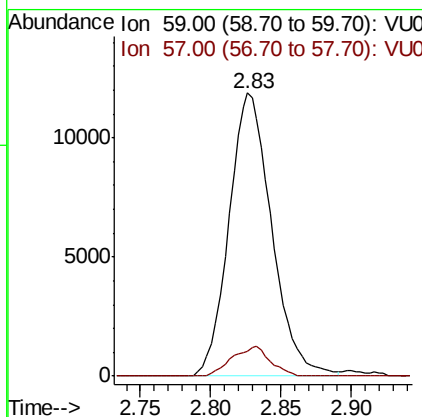
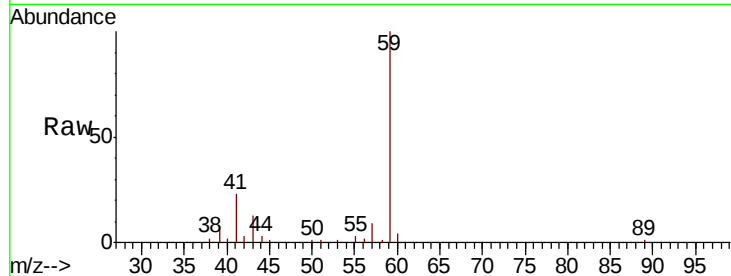
#11
Tert butyl alcohol
Concen: 92.470 ug/l
RT: 2.83 min Scan# 514
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS01

Tot Ion	Ratio	Resp	Lower	Upper
59	100	25083		
57	9.4		8.0	12.0

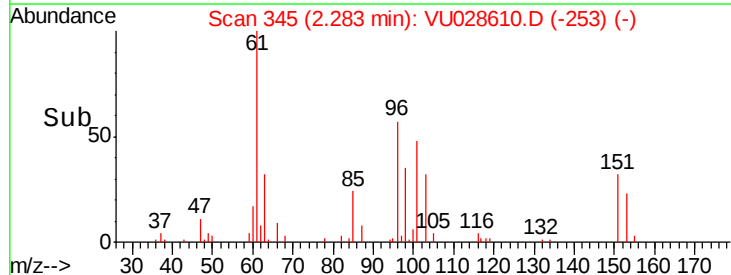
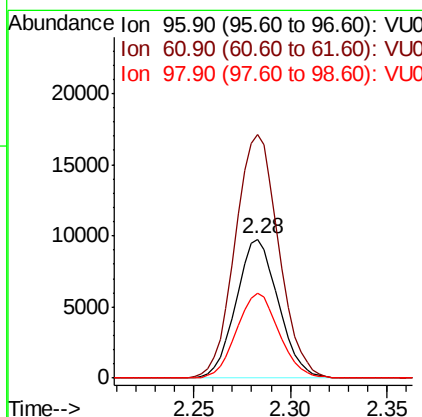
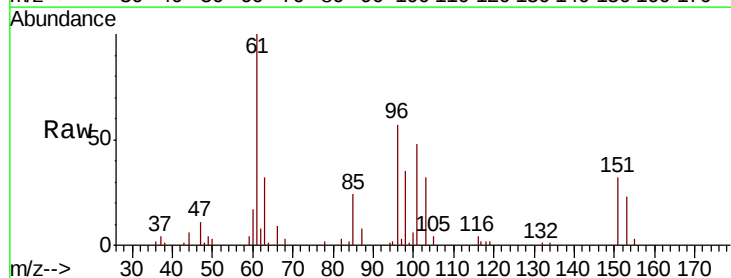
Manual Integrations
APPROVED

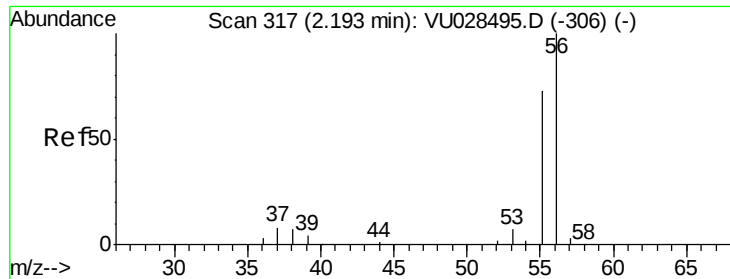
MMDadoda
12/12/2018 11:48:57 AM



#12
1,1-Dichloroethene
Concen: 16.677 ug/l
RT: 2.28 min Scan# 345
Delta R.T. -0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	14814		
61	175.0		146.4	219.6
98	60.6		51.8	77.8





#13

Acrolein

Concen: 79.406 ug/l

RT: 2.19 min Scan# 317

Delta R.T. 0.00 min

Lab File: VU028610.D

Acq: 11 Dec 2018 16:25

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBS01

Tot Ion: 56 Resp: 17171

Ion Ratio Lower Upper

56 100

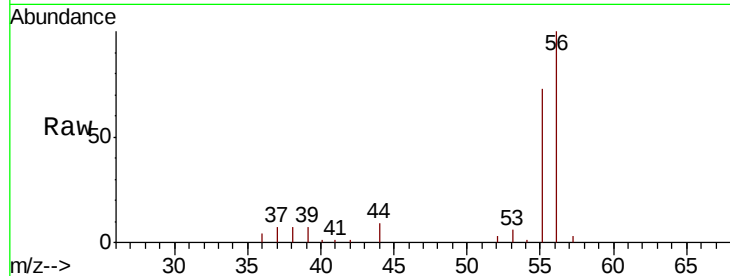
55 73.5 57.5 86.3

Manual Integrations

APPROVED

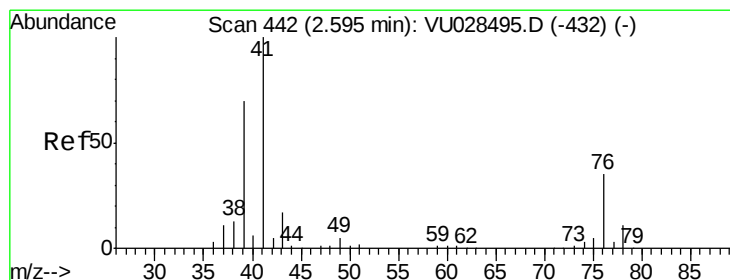
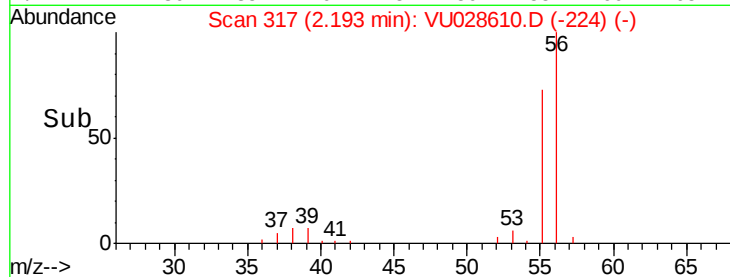
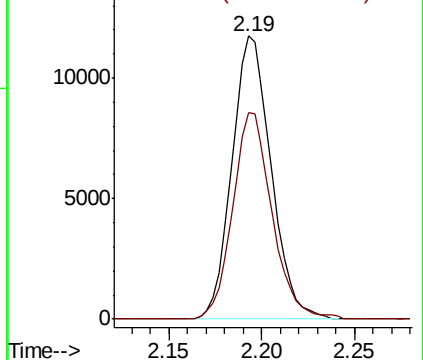
MMDadoda

12/12/2018 11:48:57 AM



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



#14

Allyl chloride

Concen: 16.694 ug/l

RT: 2.59 min Scan# 441

Delta R.T. -0.00 min

Lab File: VU028610.D

Acq: 11 Dec 2018 16:25

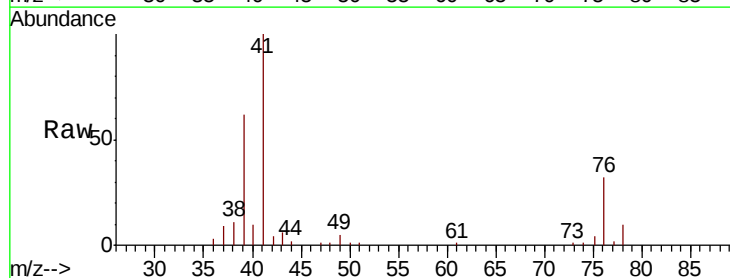
Tgt Ion: 41 Resp: 35080

Ion Ratio Lower Upper

41 100

39 64.2 50.8 76.2

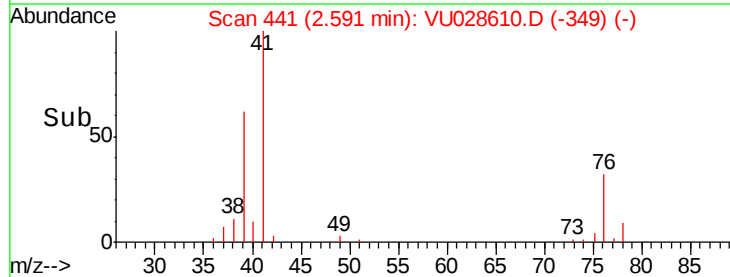
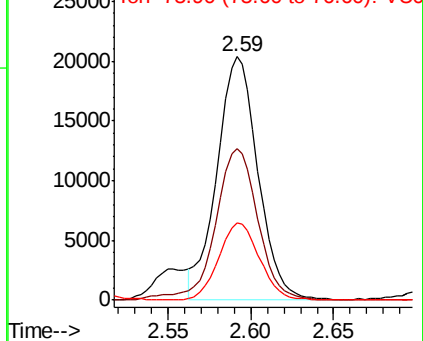
76 31.3 24.8 37.2

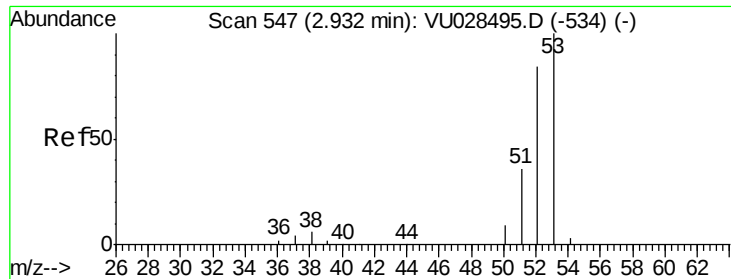


Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 75.90 (75.60 to 76.60): VU0





#15

Acrylonitrile

Concen: 88.552 ug/l

RT: 2.94 min Scan# 548

Delta R.T. 0.00 min

Lab File: VU028610.D

Acq: 11 Dec 2018 16:25

Instrument :

MSVOA_U

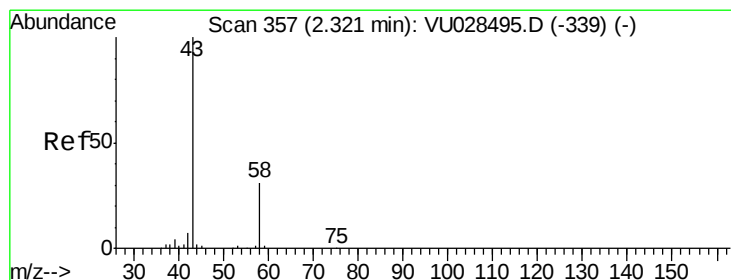
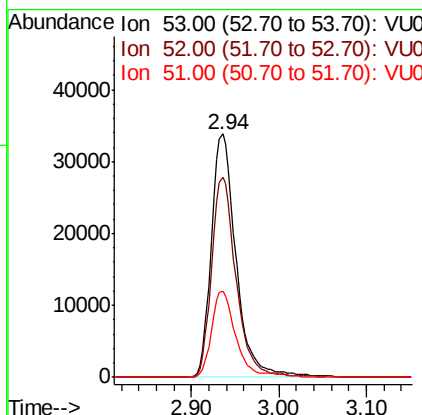
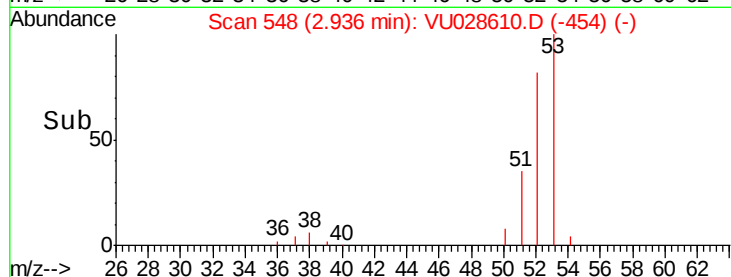
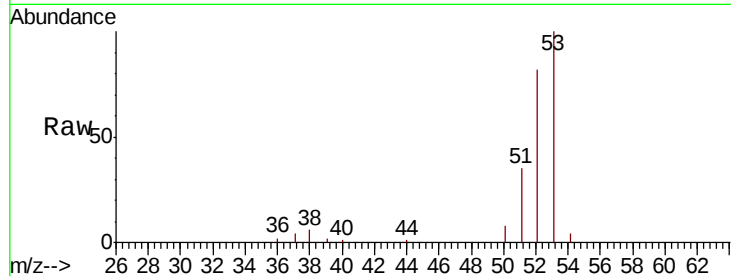
ClientSampleId :

VU1213WBS01

Tot Ion:	53	Resp:	66688
Ion	Ratio	Lower	Upper
53	100		
52	80.9	66.1	99.1
51	35.2	28.1	42.1

Manual Integrations
APPROVED

MMDadoda
12/12/2018 11:48:57 AM



#16

Acetone

Concen: 87.529 ug/l

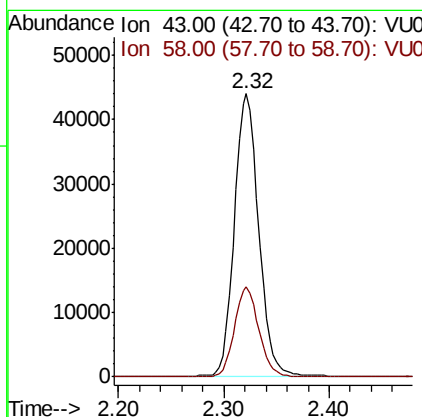
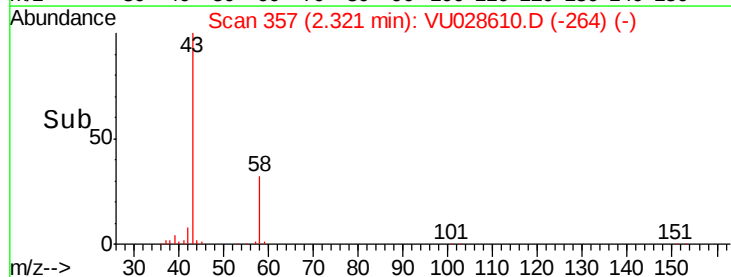
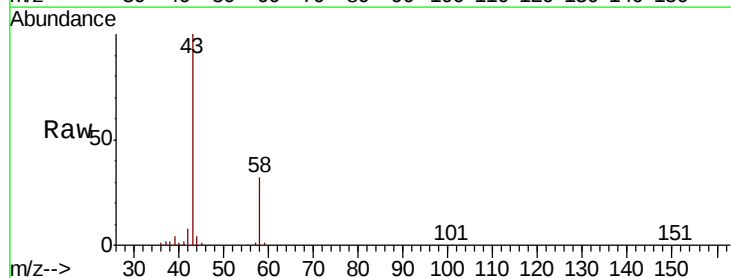
RT: 2.32 min Scan# 357

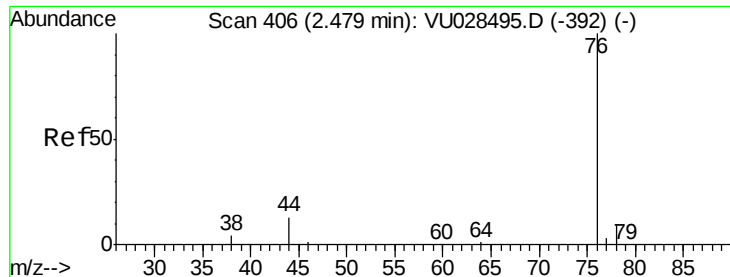
Delta R.T. 0.00 min

Lab File: VU028610.D

Acq: 11 Dec 2018 16:25

Tgt Ion:	43	Resp:	69540
Ion	Ratio	Lower	Upper
43	100		
58	31.8	24.6	37.0





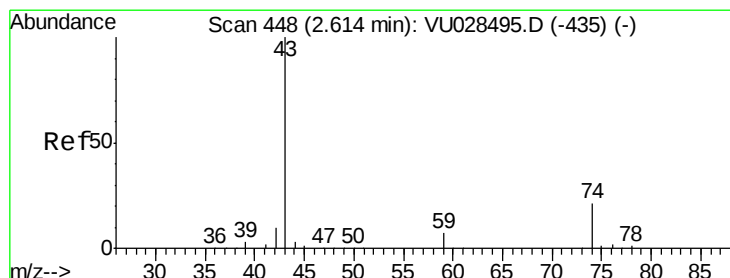
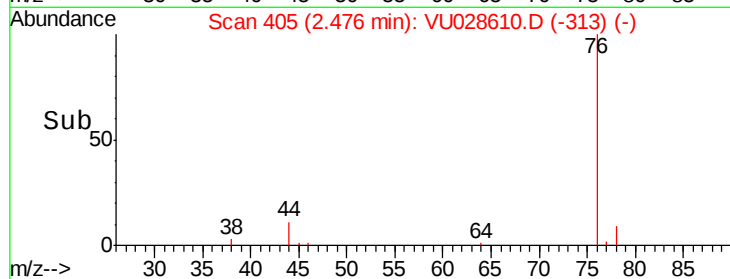
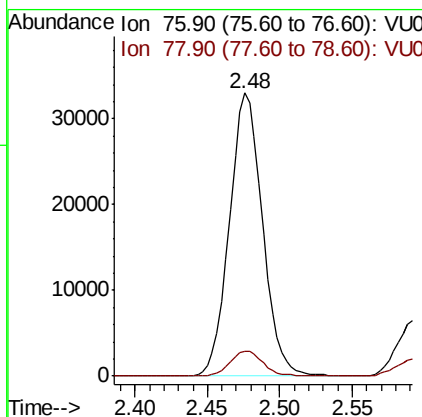
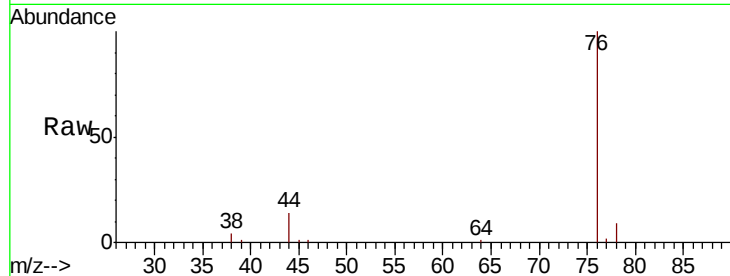
#17
Carbon Disulfide
Concen: 16.316 ug/l
RT: 2.48 min Scan# 405
Delta R.T. -0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.2	10.8

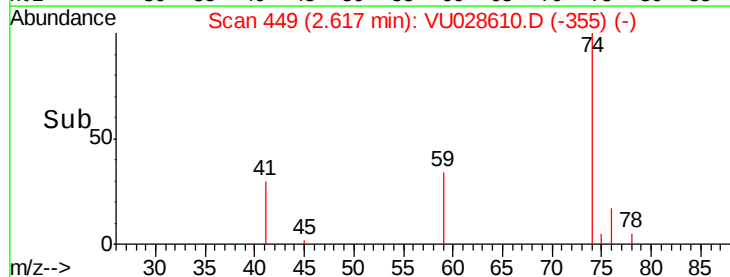
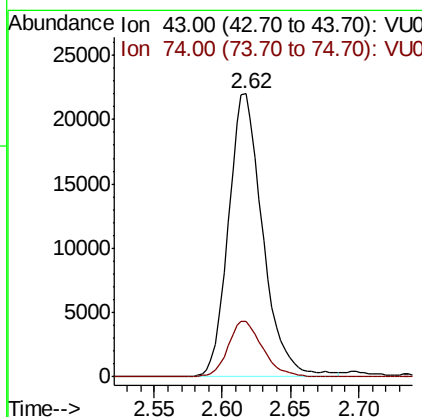
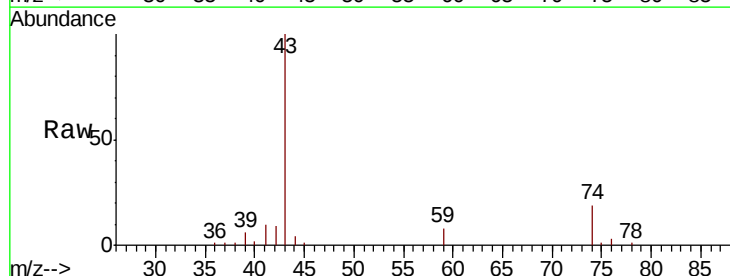
Manual Integrations
APPROVED

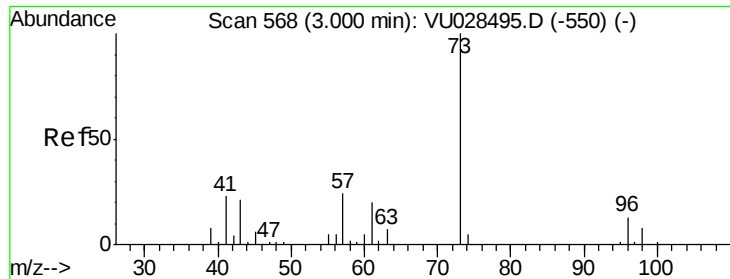
MMDadoda
12/12/2018 11:48:57 AM



#18
Methyl Acetate
Concen: 18.682 ug/l
RT: 2.62 min Scan# 449
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Tgt Ion	Ratio	Lower	Upper
43	100		
74	19.7	16.4	24.6





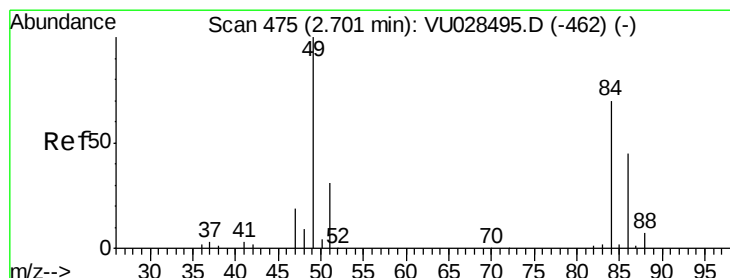
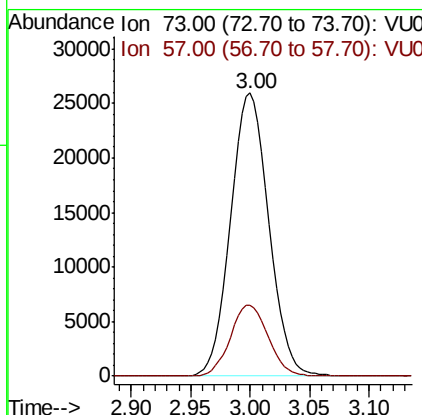
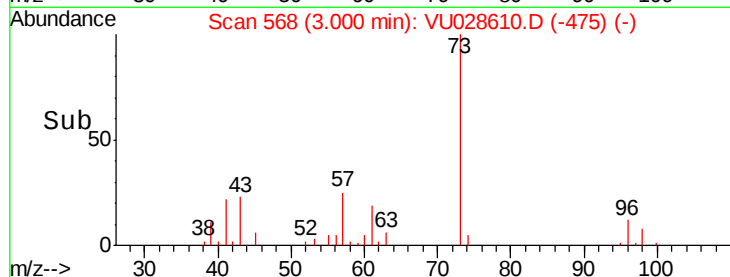
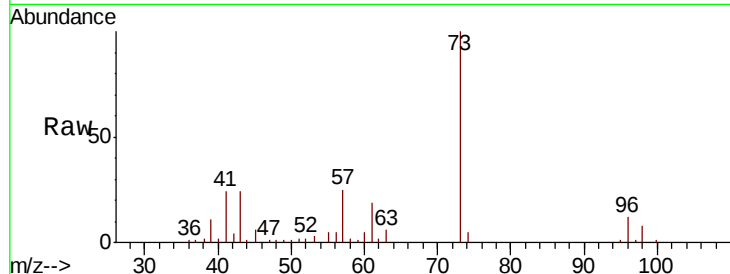
#19
Methyl tert-butyl Ether
Concen: 17.144 ug/l
RT: 3.00 min Scan# 568
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	25.1	19.4	29.2

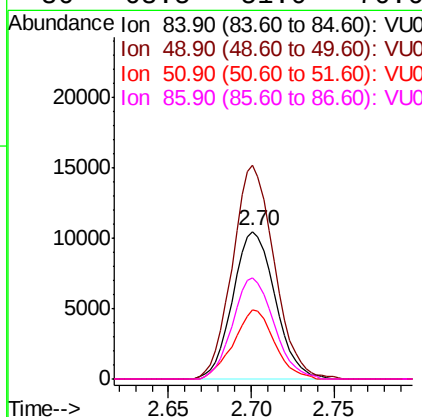
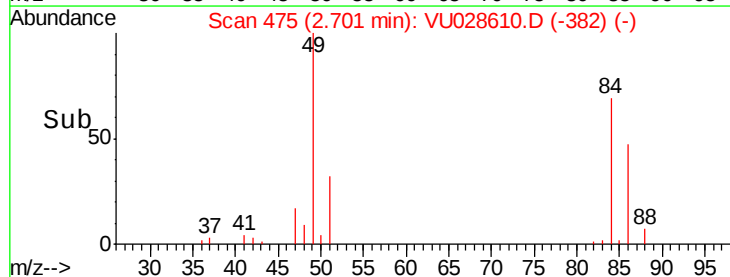
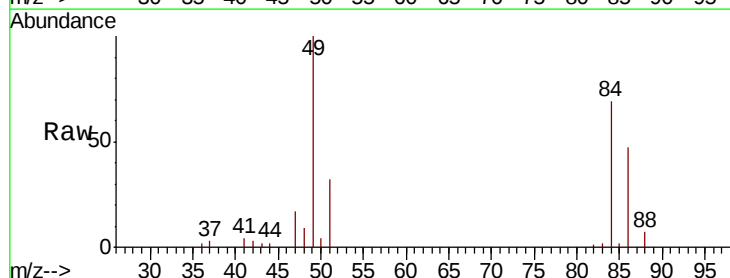
Manual Integrations
APPROVED

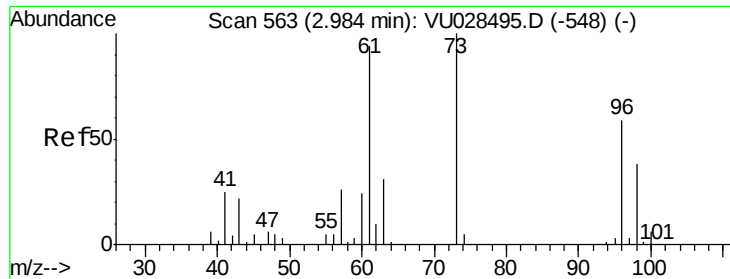
MMDadoda
12/12/2018 11:48:57 AM



#20
Methylene Chloride
Concen: 15.943 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Tgt Ion	Ratio	Lower	Upper
84	100		
49	144.6	114.0	171.0
51	46.5	35.1	52.7
86	68.5	51.0	76.6





#21

trans-1,2-Dichloroethene

Concen: 16.881 ug/l

RT: 2.98 min Scan# 562

Delta R.T. -0.00 min

Lab File: VU028610.D

Acq: 11 Dec 2018 16:25

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBS01

Tot Ion: 96 Resp: 16883

Ion Ratio Lower Upper

96 100

61 158.3 127.0 190.4

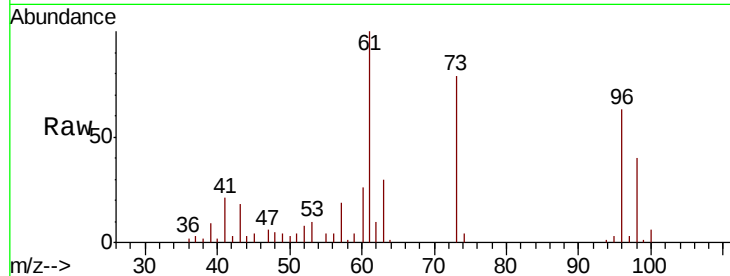
98 62.7 51.9 77.9

Manual Integrations

APPROVED

MMDadoda

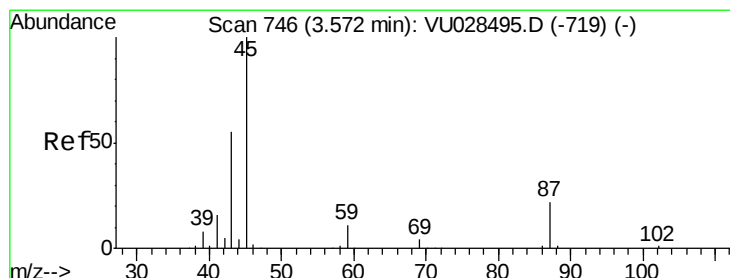
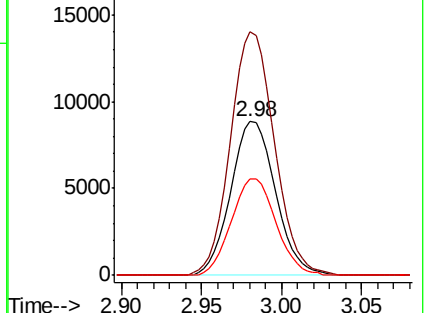
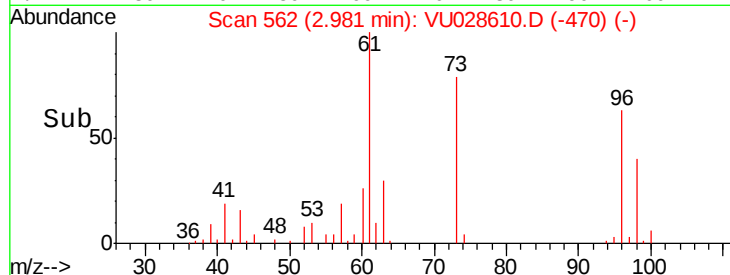
12/12/2018 11:48:57 AM



Abundance Ion 95.90 (95.60 to 96.60): VU028610.D (-470) (-)

Ion 60.90 (60.60 to 61.60): VU028610.D (-470) (-)

Ion 97.90 (97.60 to 98.60): VU028610.D (-470) (-)



#22

Diisopropyl ether

Concen: 17.460 ug/l

RT: 3.57 min Scan# 746

Delta R.T. 0.00 min

Lab File: VU028610.D

Acq: 11 Dec 2018 16:25

Tgt Ion: 45 Resp: 71350

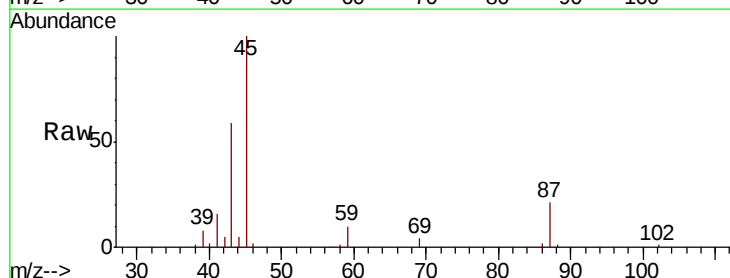
Ion Ratio Lower Upper

45 100

43 57.4 45.3 67.9

87 21.4 17.6 26.4

59 10.1 8.8 13.2

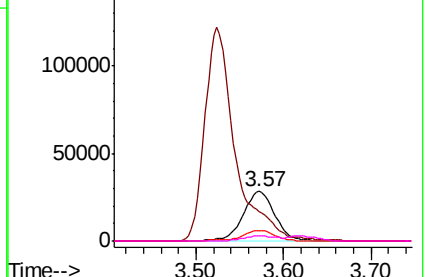
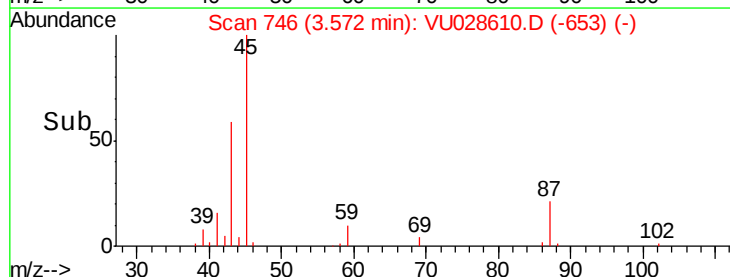


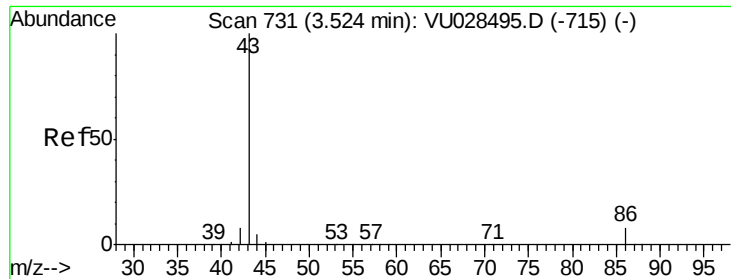
Abundance Ion 45.00 (44.70 to 45.70): VU028610.D (-653) (-)

Ion 43.00 (42.70 to 43.70): VU028610.D (-653) (-)

Ion 87.00 (86.70 to 87.70): VU028610.D (-653) (-)

Ion 59.00 (58.70 to 59.70): VU028610.D (-653) (-)





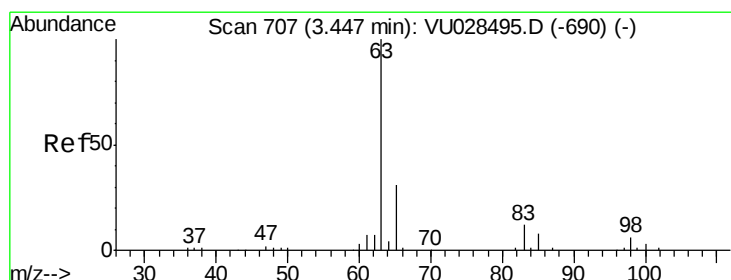
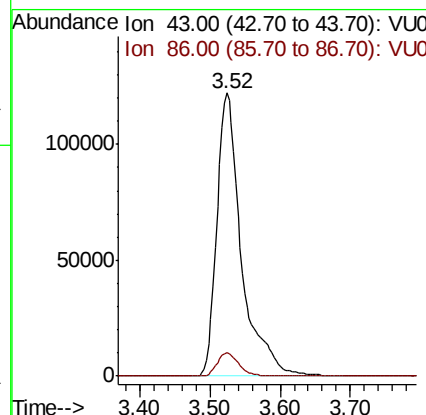
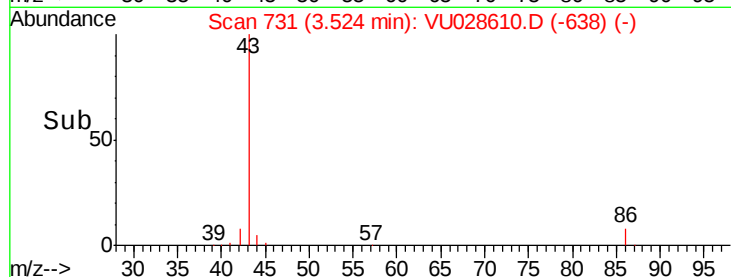
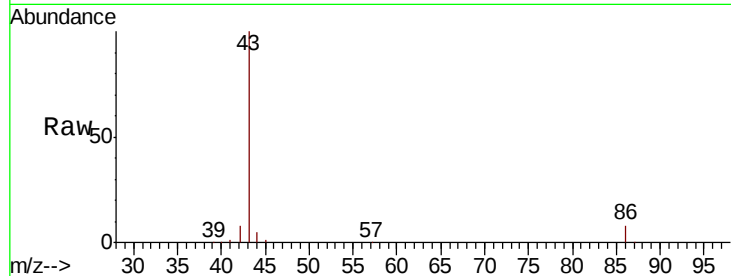
#23
 Vinyl Acetate
 Concen: 87.974 ug/l
 RT: 3.52 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU028610.D
 Acq: 11 Dec 2018 16:25

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1213WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
86	8.3	6.8	10.2

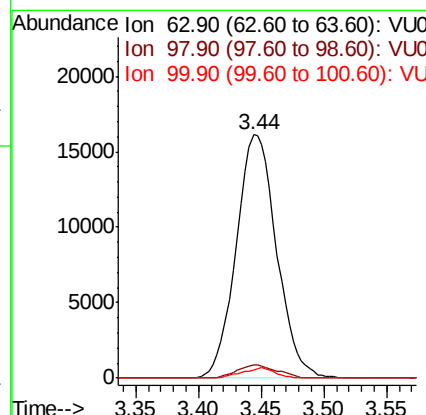
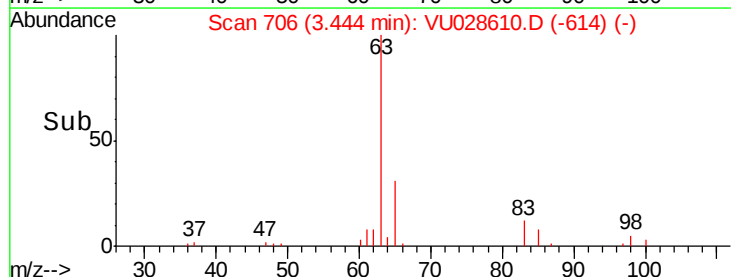
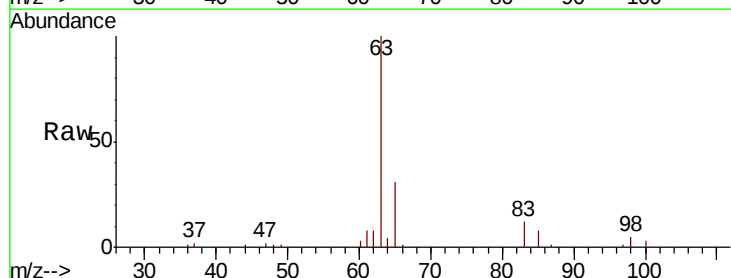
Manual Integrations
 APPROVED

MMDadoda
 12/12/2018 11:48:57 AM



#24
 1,1-Dichloroethane
 Concen: 16.882 ug/l
 RT: 3.44 min Scan# 706
 Delta R.T. -0.00 min
 Lab File: VU028610.D
 Acq: 11 Dec 2018 16:25

Tgt Ion	Ratio	Lower	Upper
63	100		
98	5.5	3.0	9.2
100	3.5	1.7	5.1





#25

2-Butanone

Concen: 89.088 ug/l

RT: 4.26 min Scan# 960

Delta R.T. 0.00 min

Lab File: VU028610.D

Acq: 11 Dec 2018 16:25

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBS01

Tot Ion: 43 Resp: 96726

Ion Ratio Lower Upper

43 100

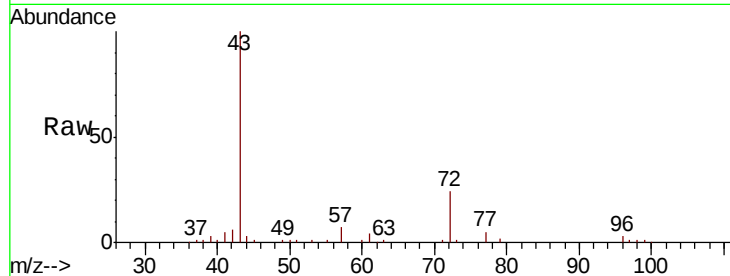
72 23.6 18.6 28.0

Manual Integrations

APPROVED

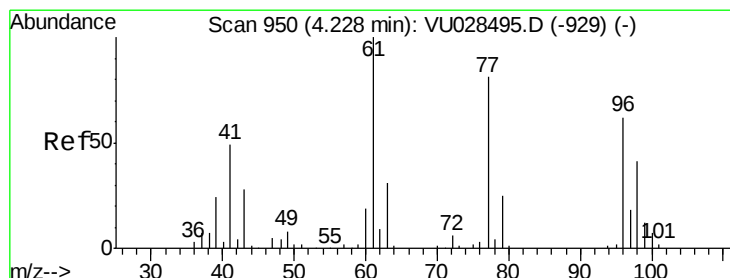
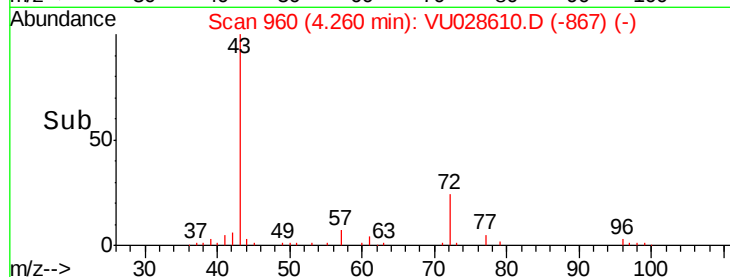
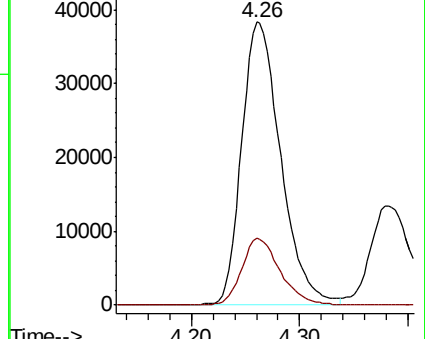
MMDadoda

12/12/2018 11:48:57 AM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0



#26

2,2-Dichloropropane

Concen: 17.081 ug/l

RT: 4.23 min Scan# 950

Delta R.T. 0.00 min

Lab File: VU028610.D

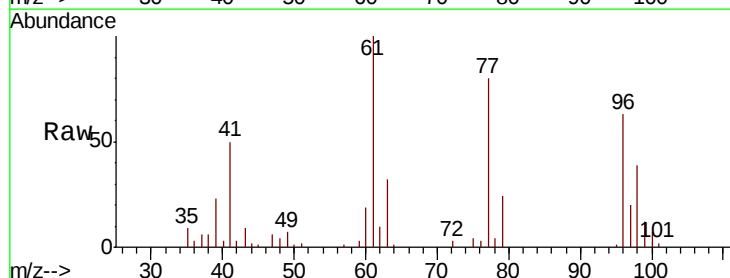
Acq: 11 Dec 2018 16:25

Tgt Ion: 77 Resp: 28951

Ion Ratio Lower Upper

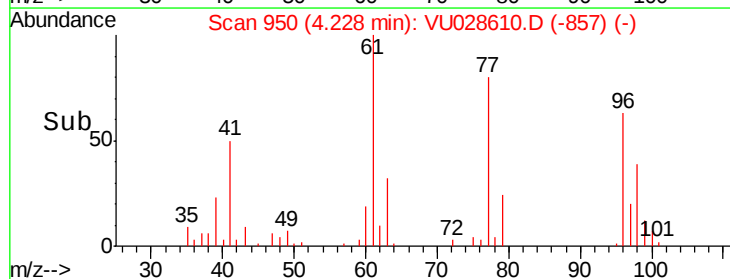
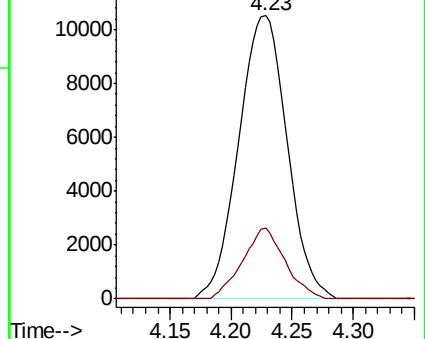
77 100

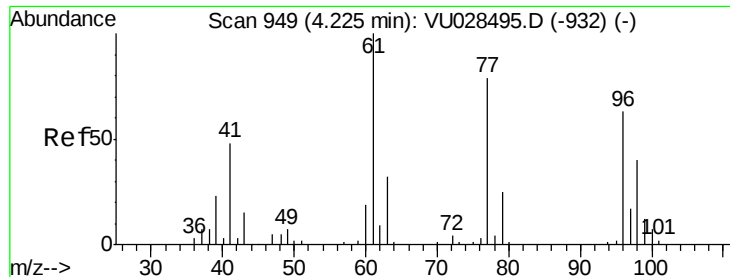
97 21.8 11.0 33.0



Abundance Ion 76.90 (76.60 to 77.60): VU0

Ion 96.90 (96.60 to 97.60): VU0





#27

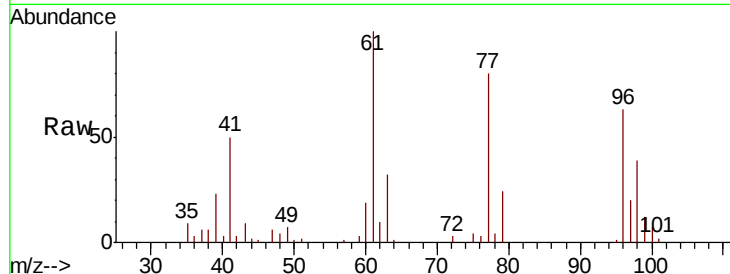
cis-1,2-Dichloroethene
Concen: 17.348 ug/l
RT: 4.23 min Scan# 950
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS01

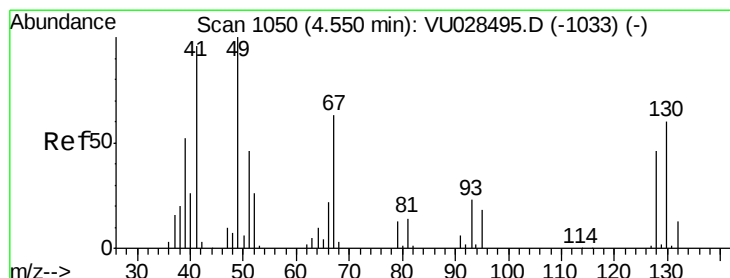
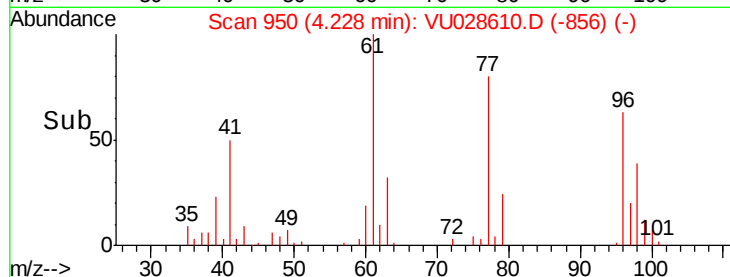
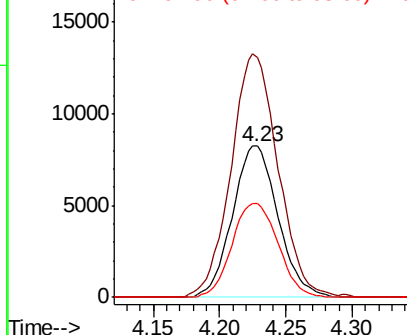
Tot Ion	Ratio	Resp	Lower	Upper
96	100	19638		
61	166.2	0.0	332.4	
98	62.9	0.0	129.0	

Manual Integrations
APPROVED

MMDadoda
12/12/2018 11:48:57 AM



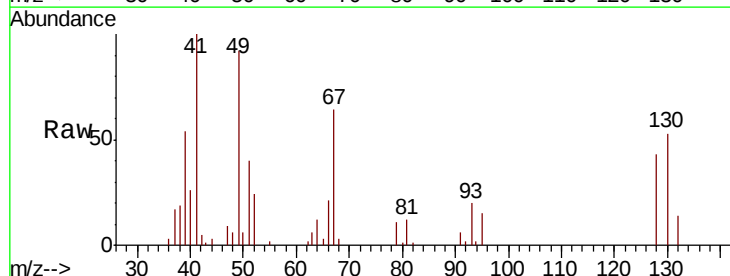
Abundance Ion 95.90 (95.60 to 96.60): VU0
Ion 60.90 (60.60 to 61.60): VU0
Ion 97.90 (97.60 to 98.60): VU0



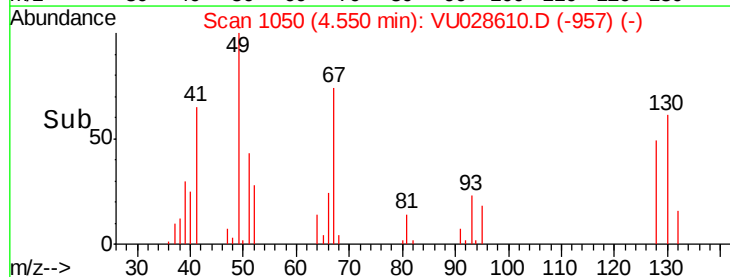
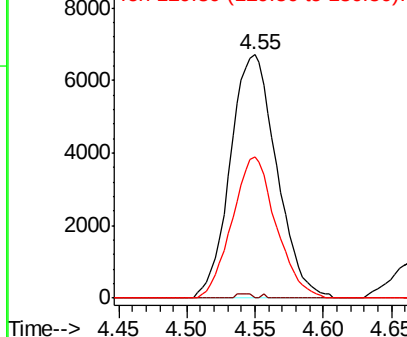
#28

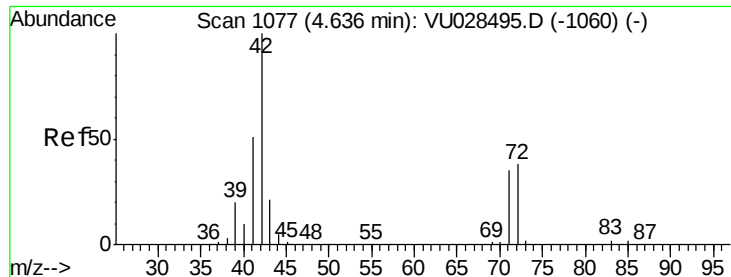
Bromochloromethane
Concen: 16.292 ug/l
RT: 4.55 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	15843		
129	0.1	0.0	3.0	
130	55.0	47.8	71.8	



Abundance Ion 48.90 (48.60 to 49.60): VU0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V





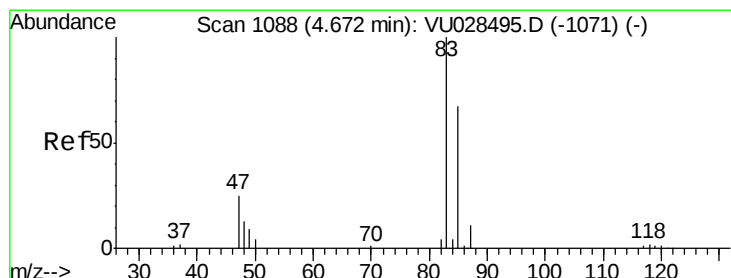
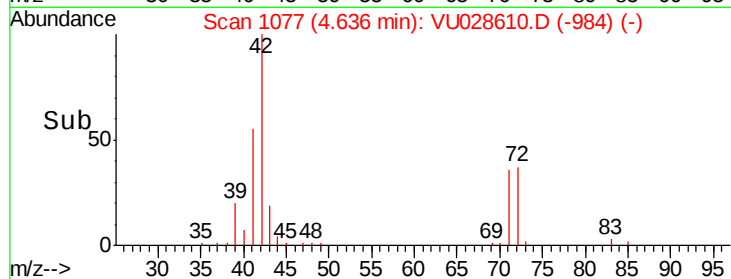
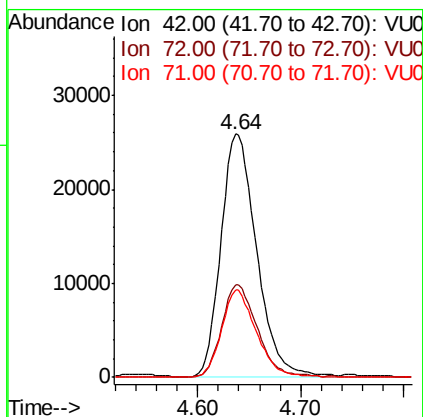
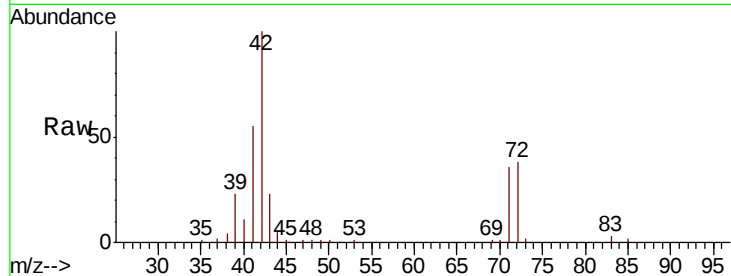
#29
Tetrahydrofuran
Concen: 89.985 ug/l
RT: 4.64 min Scan# 1077
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.8	31.4	47.0
71	34.7	28.6	43.0

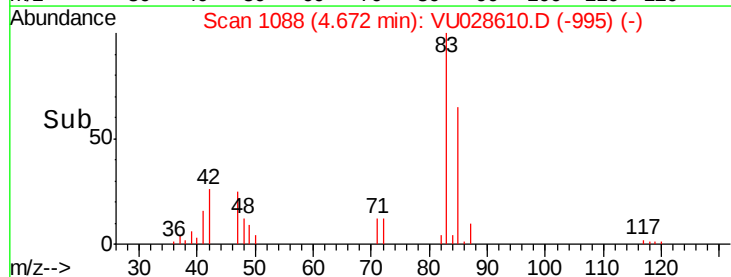
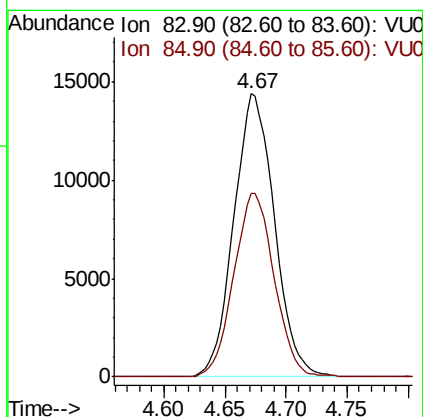
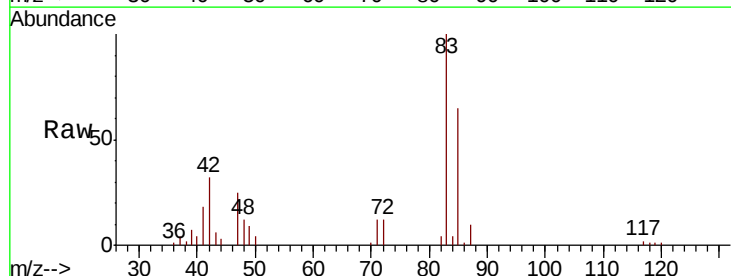
Manual Integrations
APPROVED

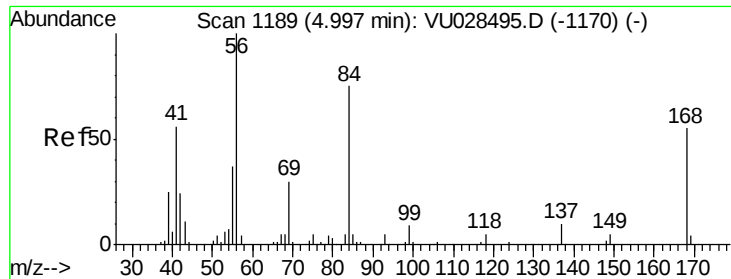
MMDadoda
12/12/2018 11:48:57 AM



#30
Chloroform
Concen: 17.802 ug/l
RT: 4.67 min Scan# 1088
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.7	53.6	80.4





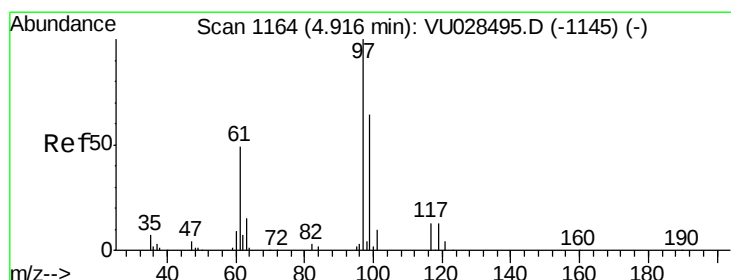
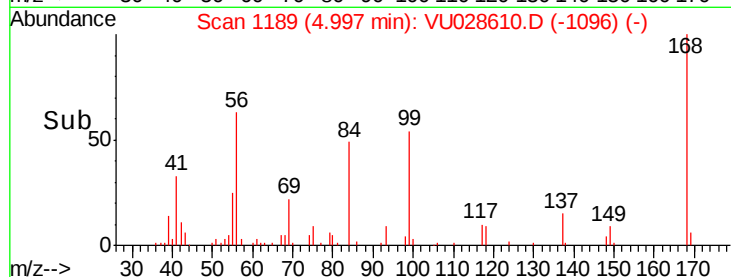
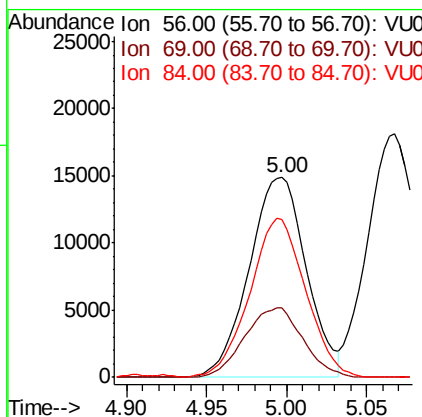
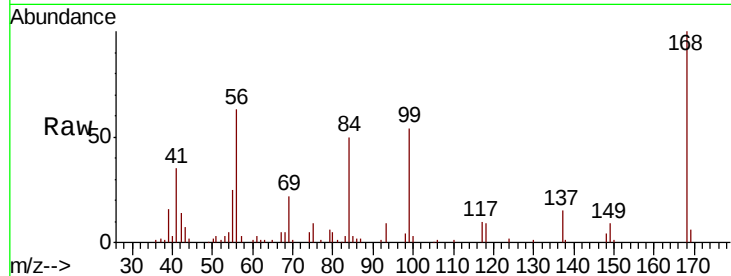
#31
Cyclohexane
Concen: 16.836 ug/l
RT: 5.00 min Scan# 1189
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	34.5	24.0	36.0
84	78.9	59.7	89.5

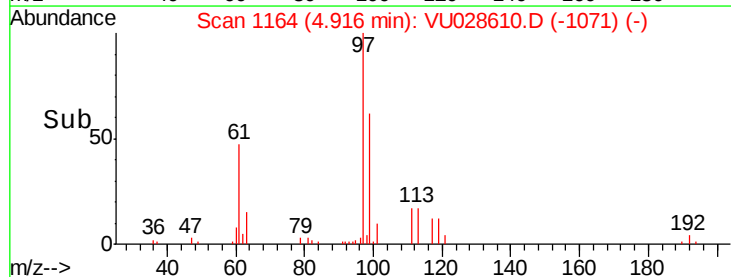
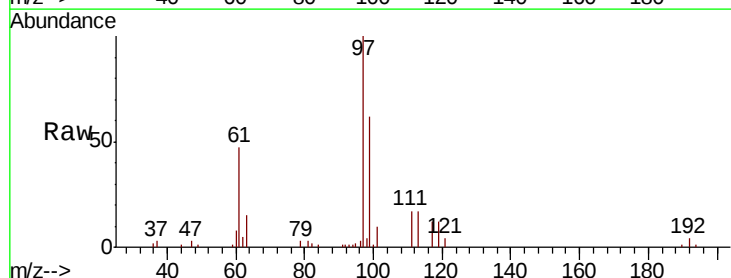
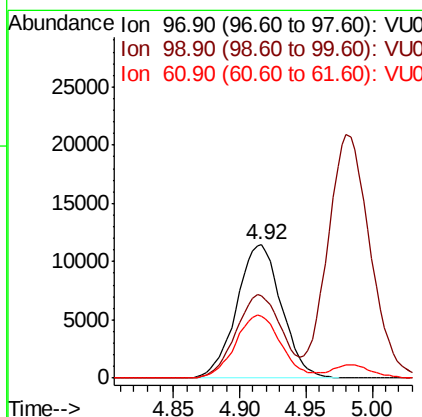
Manual Integrations
APPROVED

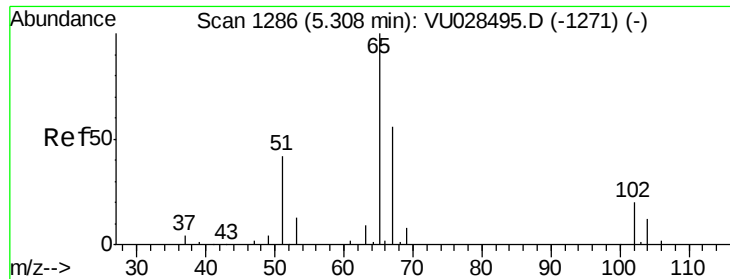
MMDadoda
12/12/2018 11:48:57 AM



#32
1,1,1-Trichloroethane
Concen: 17.451 ug/l
RT: 4.92 min Scan# 1164
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.2	52.3	78.5
61	48.4	39.0	58.6





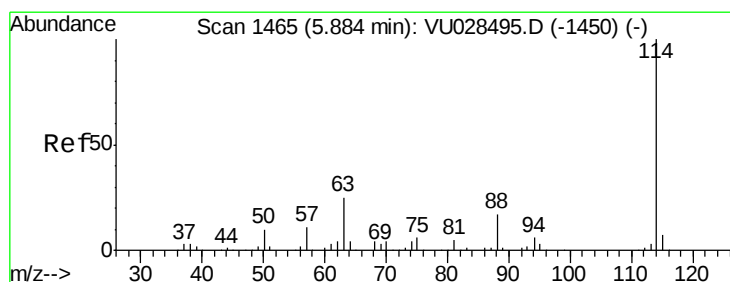
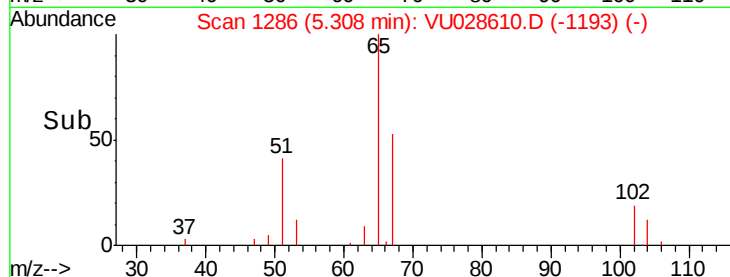
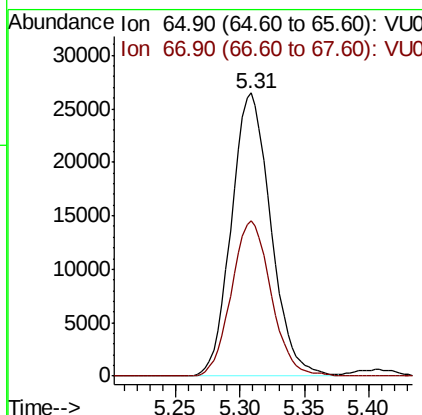
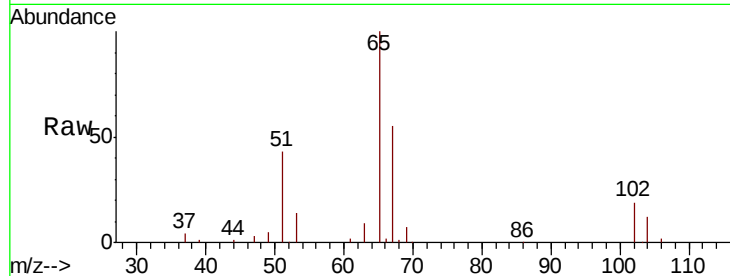
#33
 1,2-Dichloroethane-d4
 Concen: 46.184 ug/l
 RT: 5.31 min Scan# 1286
 Delta R.T. 0.00 min
 Lab File: VU028610.D
 Acq: 11 Dec 2018 16:25

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1213WBS01

Tot Ion	Ratio	Lower	Upper
65	100		
67	55.1	0.0	110.6

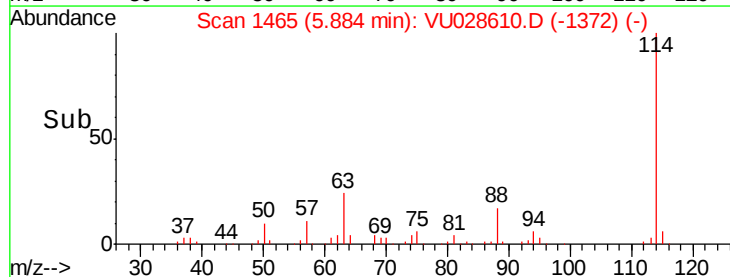
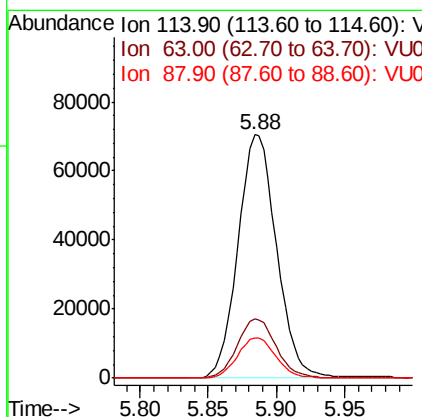
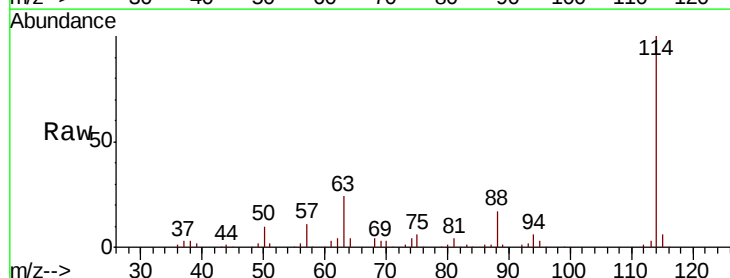
Manual Integrations
 APPROVED

MMDadoda
 12/12/2018 11:48:57 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU028610.D
 Acq: 11 Dec 2018 16:25

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.3	0.0	49.2
88	16.7	0.0	33.4





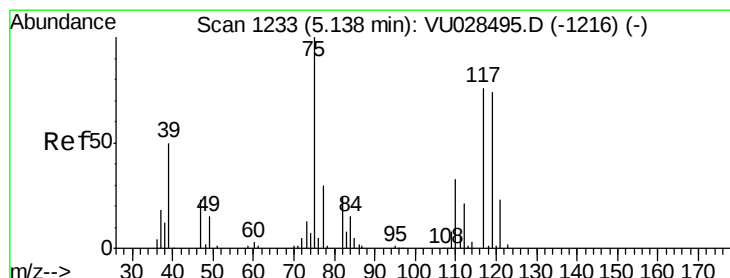
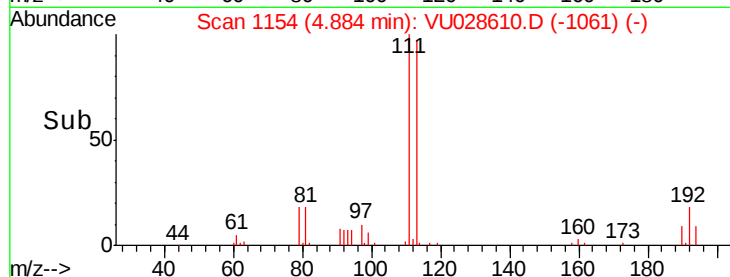
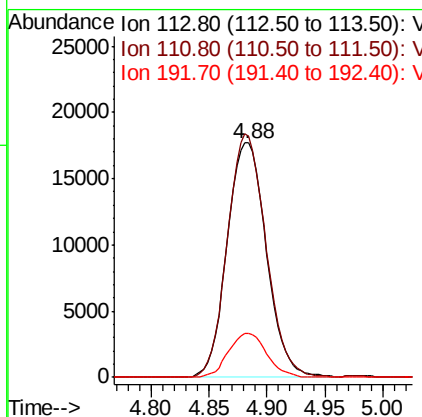
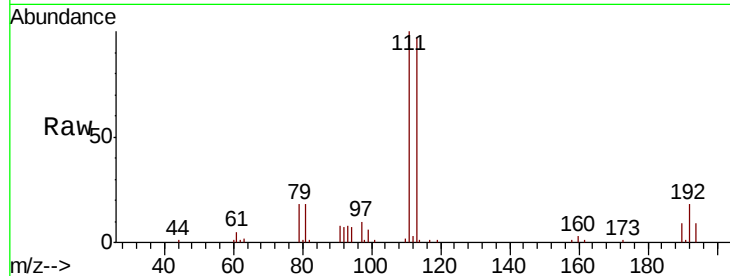
#35
 Dibromofluoromethane
 Concen: 47.795 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: VU028610.D
 Acq: 11 Dec 2018 16:25

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1213WBS01

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.5	83.4	125.0
192	18.3	14.8	22.2

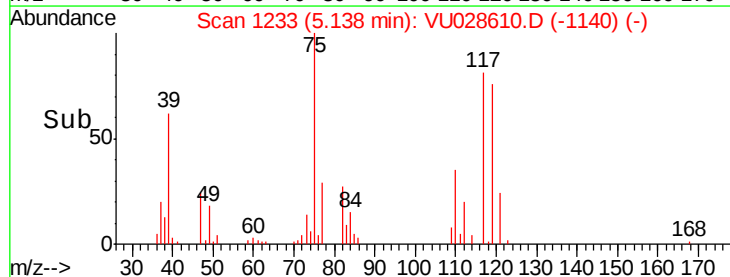
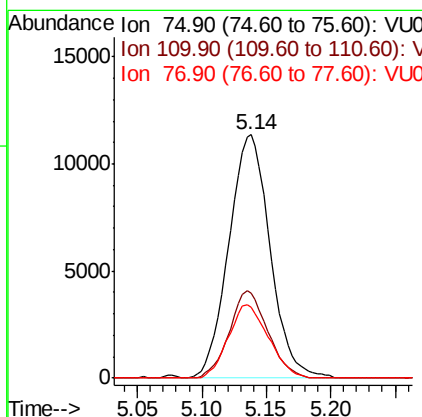
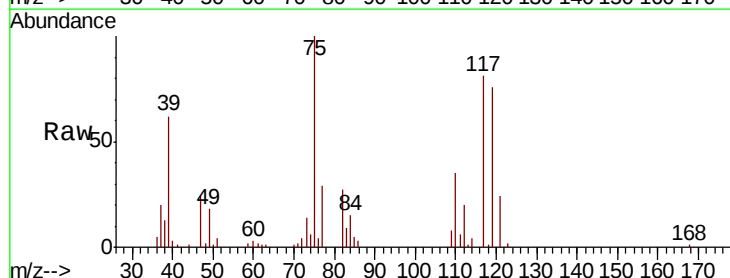
Manual Integrations
 APPROVED

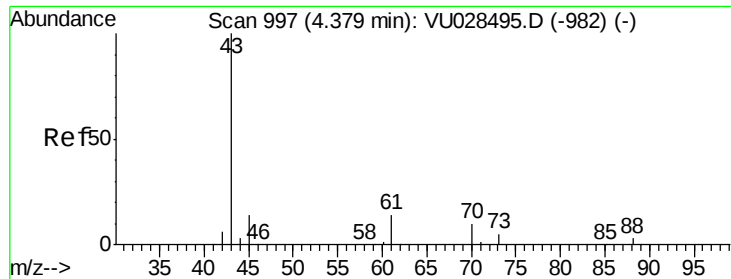
MMDadoda
 12/12/2018 11:48:57 AM



#36
 1,1-Dichloropropene
 Concen: 16.662 ug/l
 RT: 5.14 min Scan# 1233
 Delta R.T. 0.00 min
 Lab File: VU028610.D
 Acq: 11 Dec 2018 16:25

Tgt Ion	Ratio	Lower	Upper
75	100		
110	33.3	16.1	48.2
77	29.2	24.5	36.7





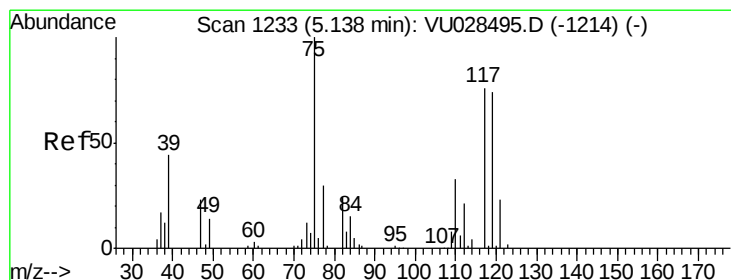
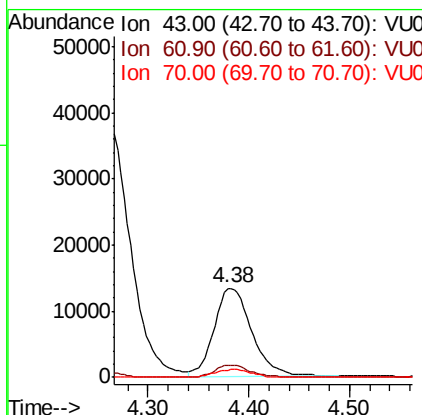
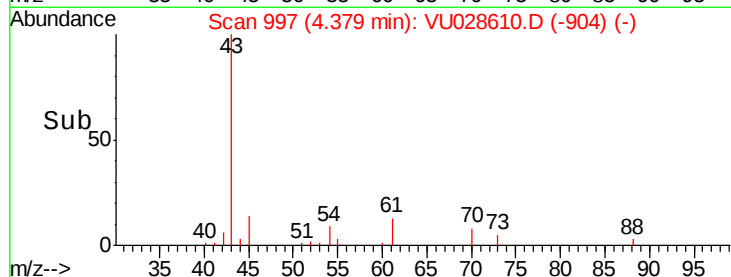
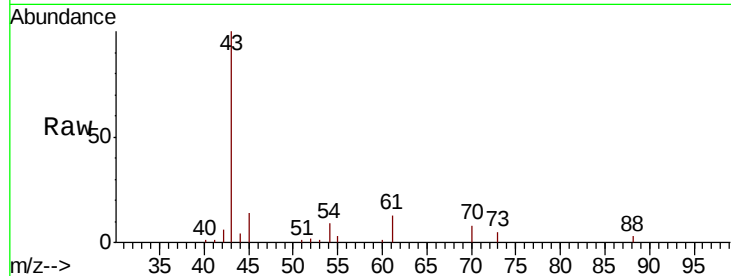
#37
Ethyl Acetate
Concen: 17.597 ug/l
RT: 4.38 min Scan# 997
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.1	11.0	16.4
70	8.6	7.4	11.0

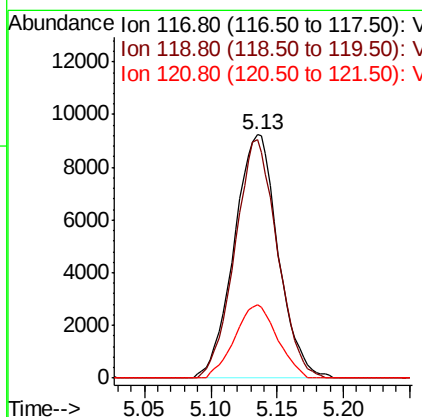
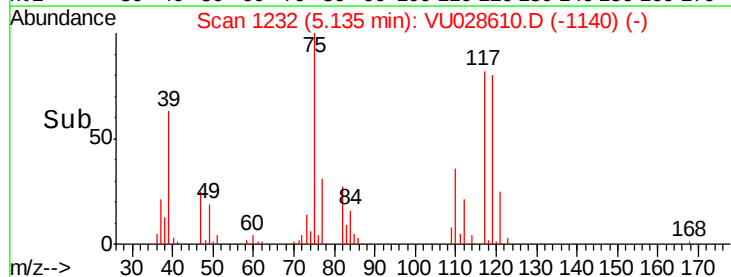
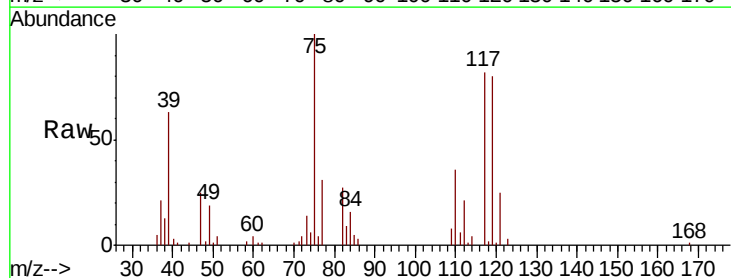
Manual Integrations
APPROVED

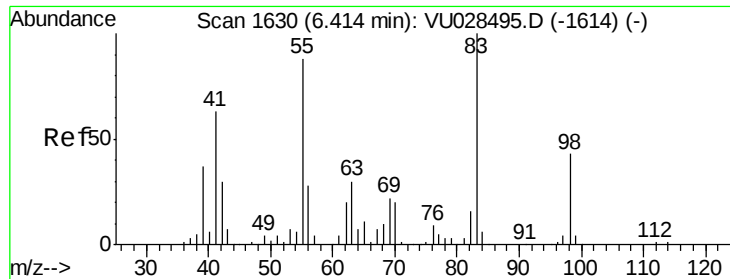
MMDadoda
12/12/2018 11:48:57 AM



#38
Carbon Tetrachloride
Concen: 17.432 ug/l
RT: 5.13 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.1	77.6	116.4
121	30.3	24.6	36.8





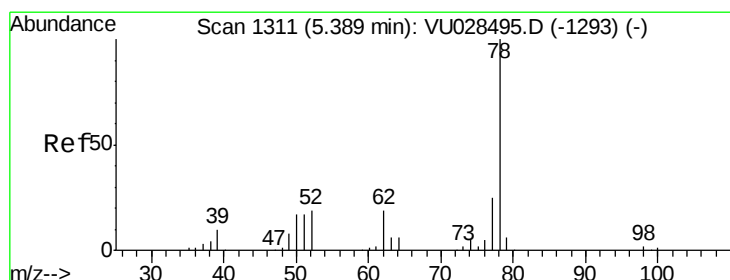
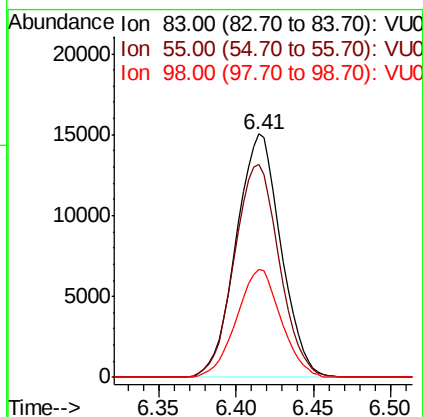
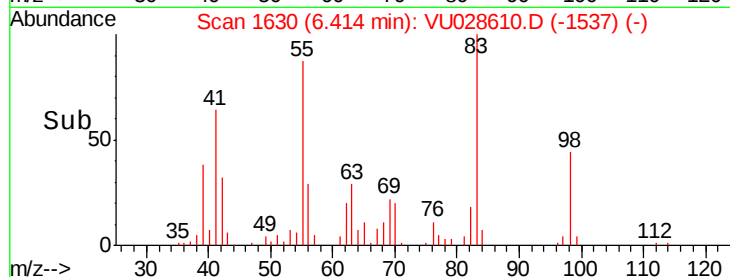
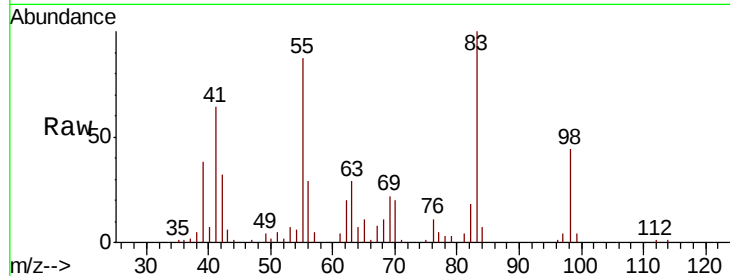
#39
Methvlcvclohexane
Concen: 16.388 ug/l
RT: 6.41 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	87.2	70.2	105.2
98	44.2	34.2	51.4

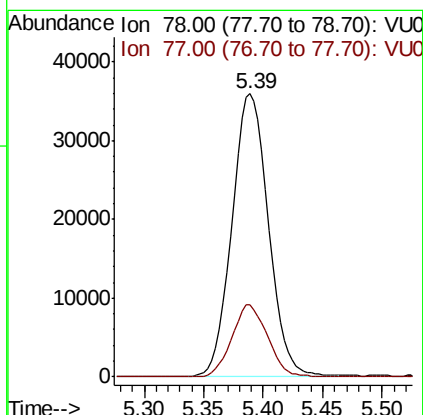
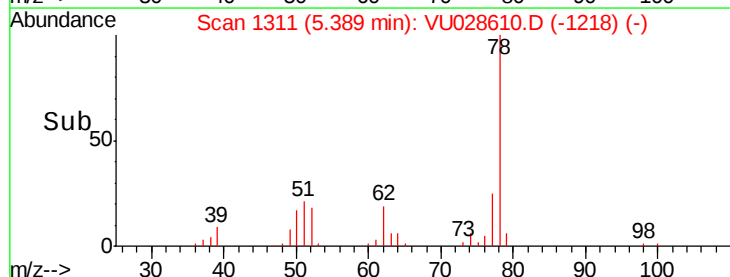
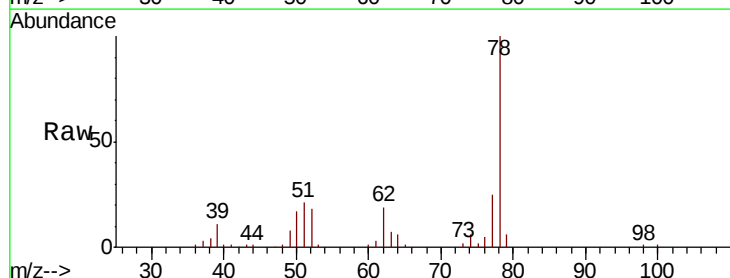
Manual Integrations
APPROVED

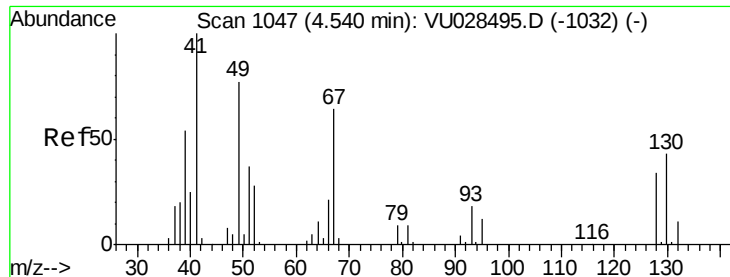
MMDadoda
12/12/2018 11:48:57 AM



#40
Benzene
Concen: 17.155 ug/l
RT: 5.39 min Scan# 1311
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.4	19.9	29.9





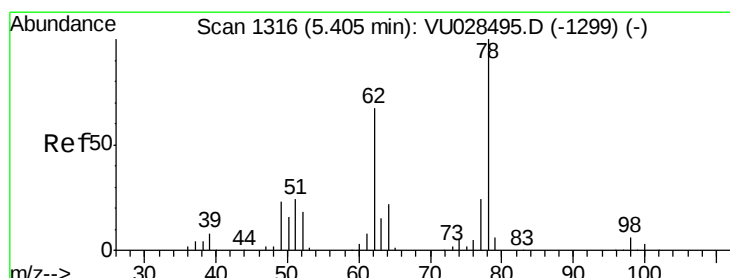
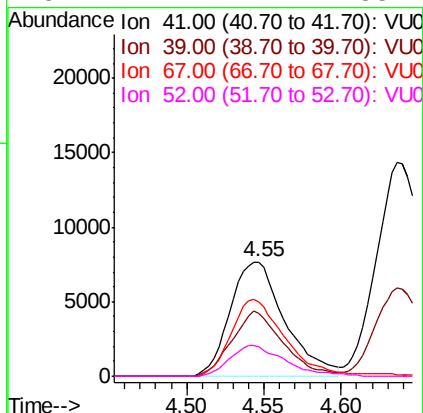
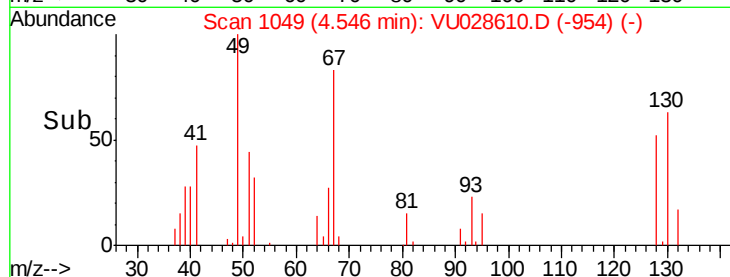
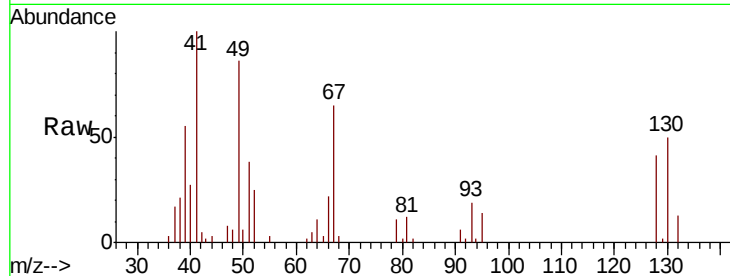
#41
Methacrylonitrile
Concen: 17.574 ug/l
RT: 4.55 min Scan# 1049
Delta R.T. 0.01 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	53.2	43.3	64.9	
67	65.4	53.6	80.4	
52	27.4	22.1	33.1	

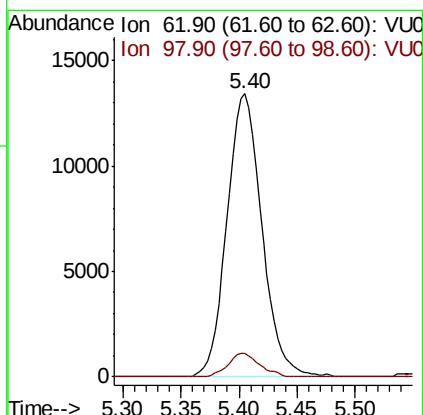
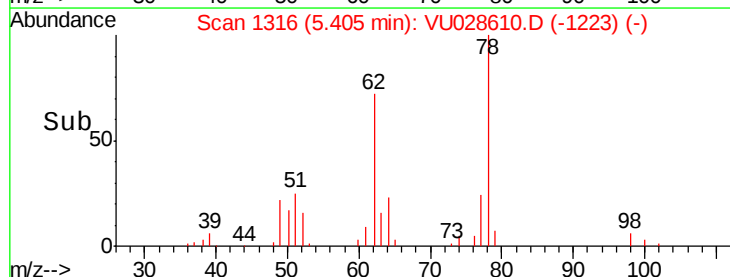
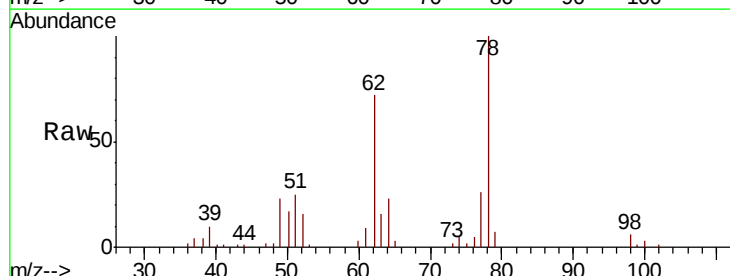
Manual Integrations
APPROVED

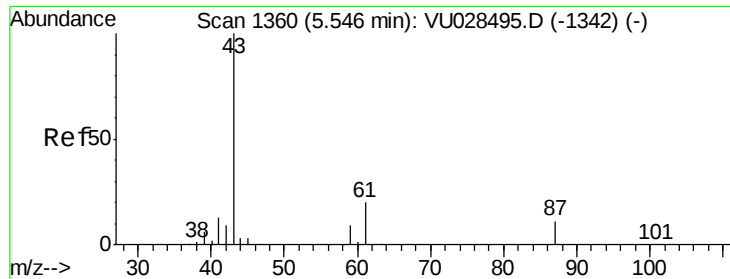
MMDadoda
12/12/2018 11:48:57 AM



#42
1,2-Dichloroethane
Concen: 17.951 ug/l
RT: 5.40 min Scan# 1316
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	7.5	0.0	17.2	





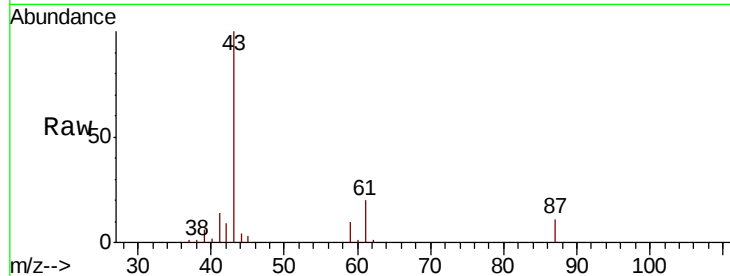
#43
Isopropyl Acetate
Concen: 17.736 ug/l
RT: 5.55 min Scan# 1361
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS01

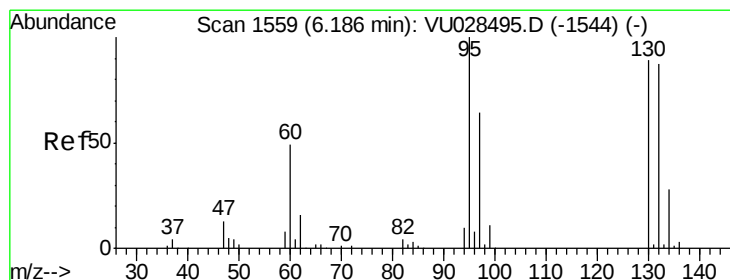
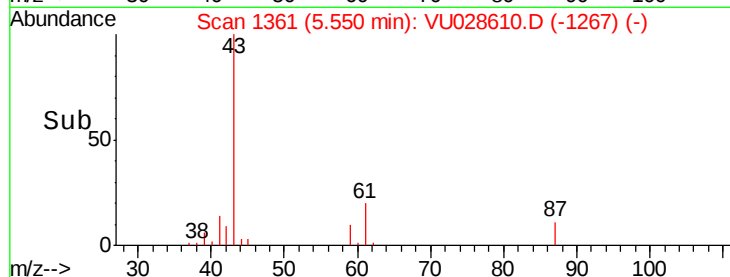
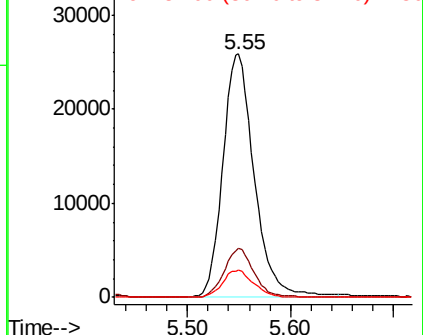
Tot Ion	Ratio	Lower	Upper
43	100		
61	19.0	15.5	23.3
87	10.7	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
12/12/2018 11:48:57 AM

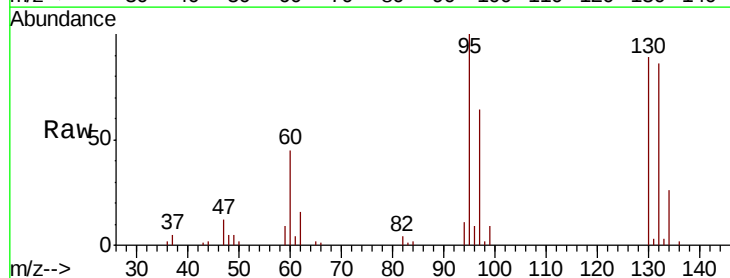


Abundance Ion 43.00 (42.70 to 43.70): VU028495.D (-1342) (-)

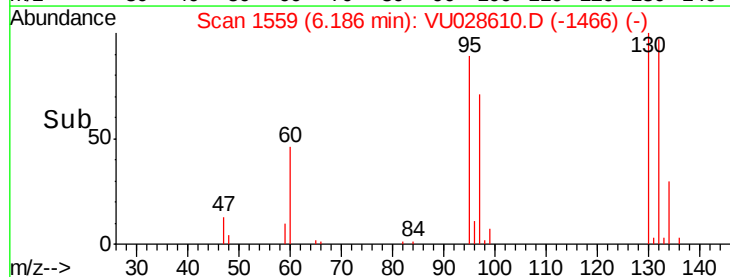
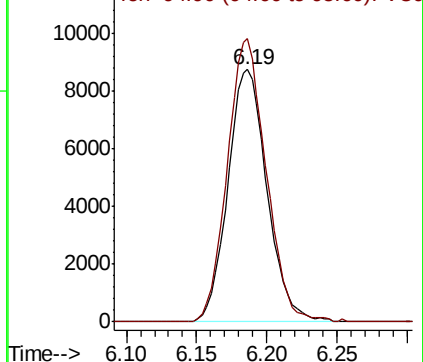


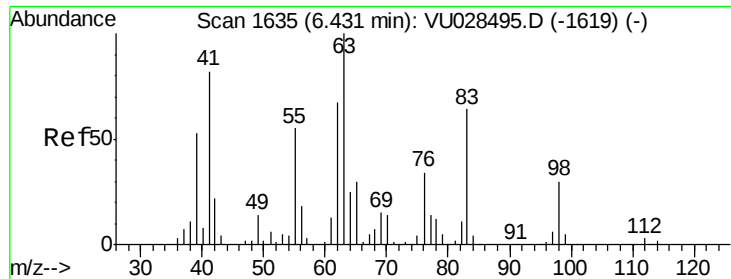
#44
Trichloroethene
Concen: 17.197 ug/l
RT: 6.19 min Scan# 1559
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Tgt Ion	Ratio	Lower	Upper
130	100		
95	112.2	0.0	224.0



Abundance Ion 129.80 (129.50 to 130.50): VU028495.D (-1544) (-)





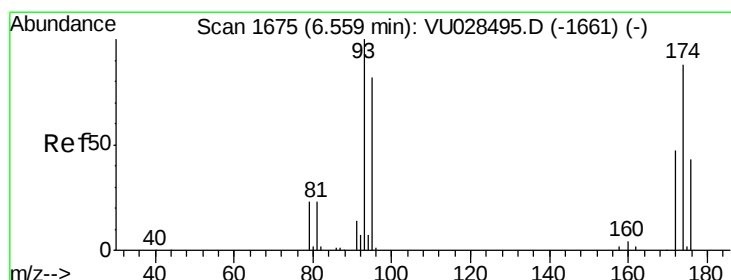
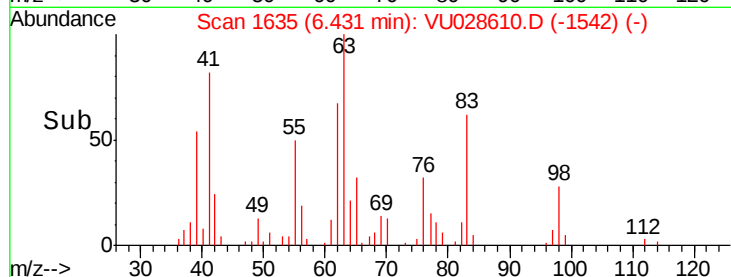
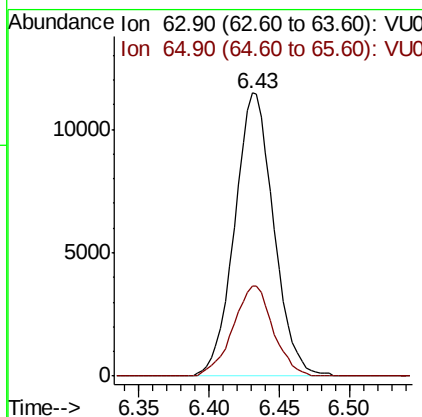
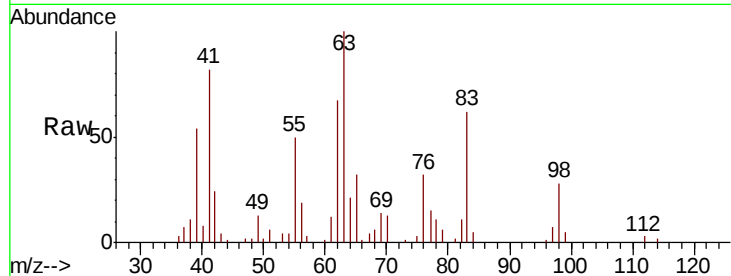
#45
 1,2-Dichloropropane
 Concen: 17.729 ug/l
 RT: 6.43 min Scan# 1635
 Delta R.T. 0.00 min
 Lab File: VU028610.D
 Acq: 11 Dec 2018 16:25

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1213WBS01

Tot Ion: 63 Resp: 22238
 Ion Ratio Lower Upper
 63 100
 65 31.7 24.2 36.4

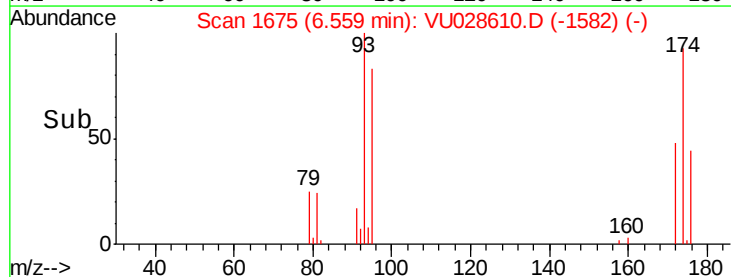
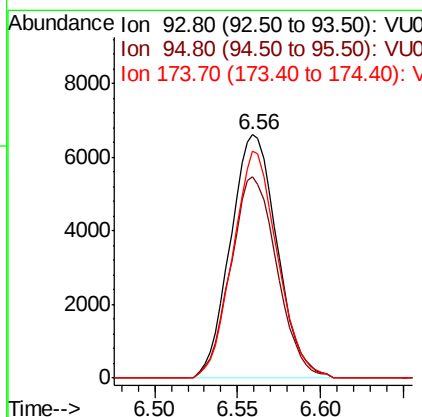
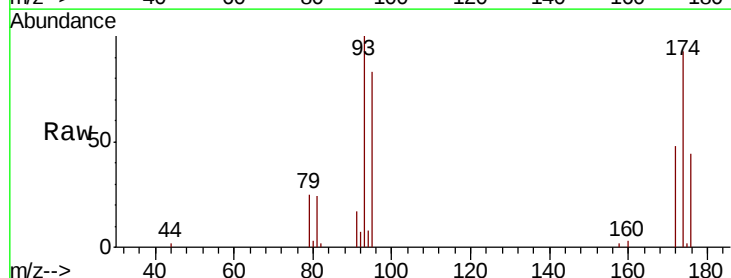
Manual Integrations
 APPROVED

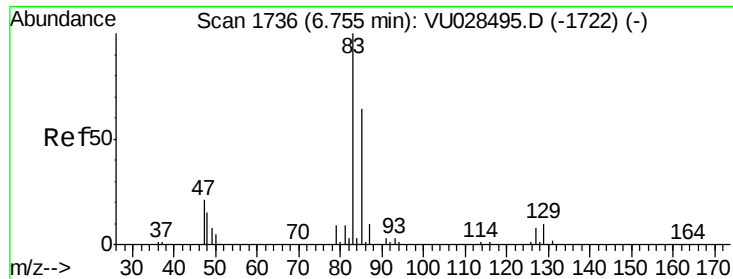
MMDadoda
 12/12/2018 11:48:57 AM



#46
 Dibromomethane
 Concen: 17.400 ug/l
 RT: 6.56 min Scan# 1675
 Delta R.T. 0.00 min
 Lab File: VU028610.D
 Acq: 11 Dec 2018 16:25

Tgt Ion: 93 Resp: 12949
 Ion Ratio Lower Upper
 93 100
 95 81.9 65.4 98.2
 174 89.2 72.2 108.4





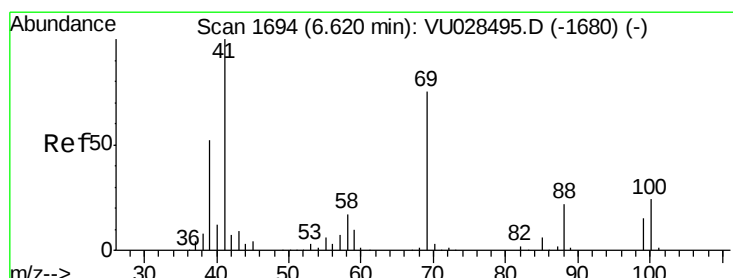
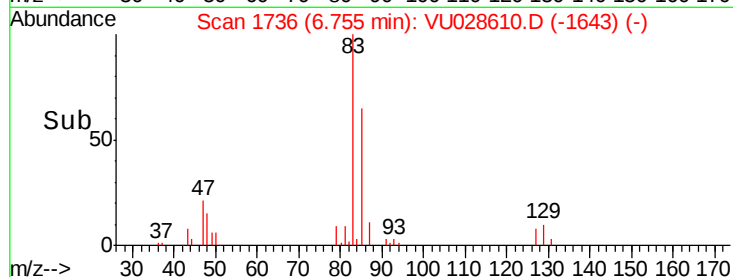
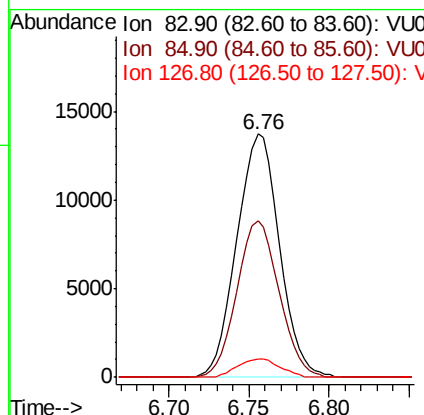
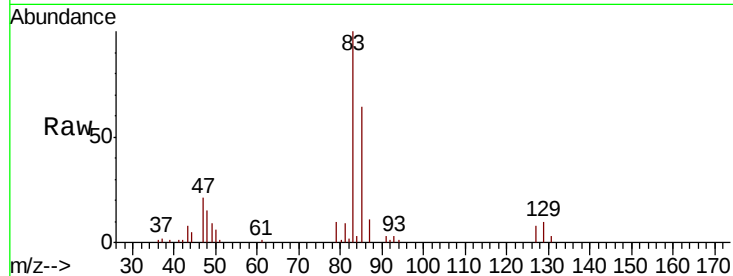
#47
Bromodichloromethane
Concen: 17.260 ug/l
RT: 6.76 min Scan# 1736
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS01

Tot Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.5	77.3
127	7.8	6.2	9.4

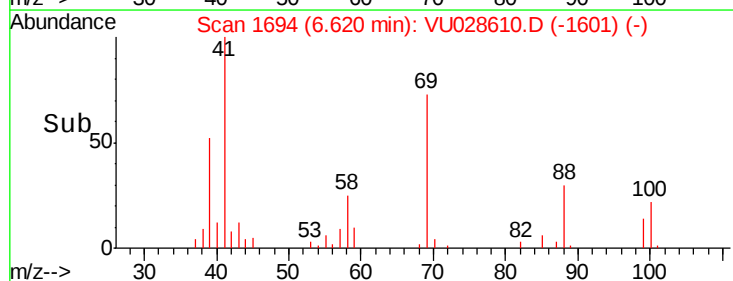
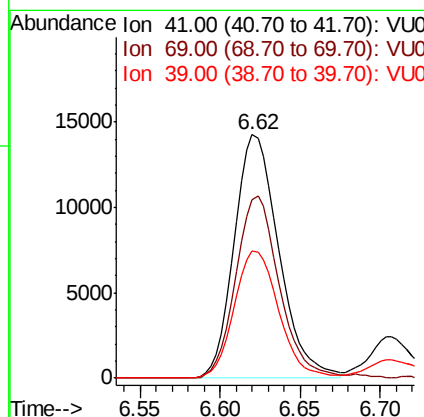
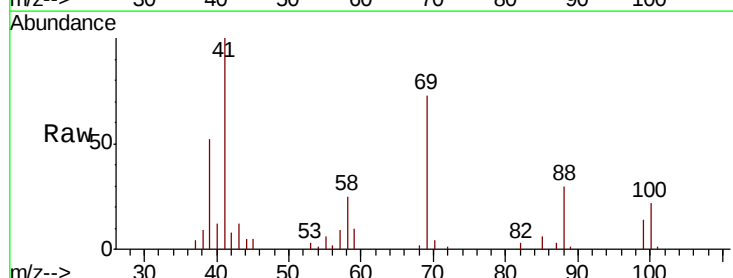
Manual Integrations
APPROVED

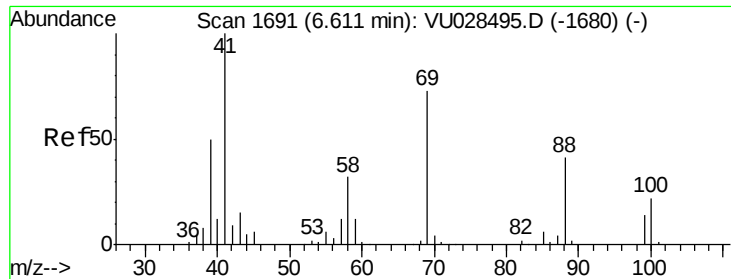
MMDadoda
12/12/2018 11:48:57 AM



#48
Methyl methacrylate
Concen: 17.674 ug/l
RT: 6.62 min Scan# 1694
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Tgt Ion	Ratio	Lower	Upper
41	100		
69	72.6	60.4	90.6
39	52.2	41.1	61.7





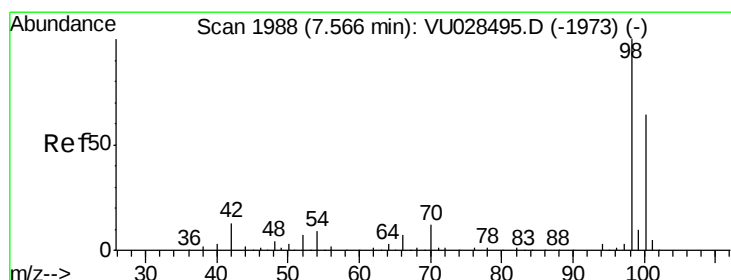
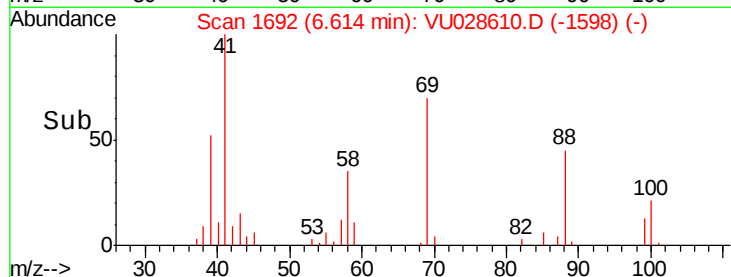
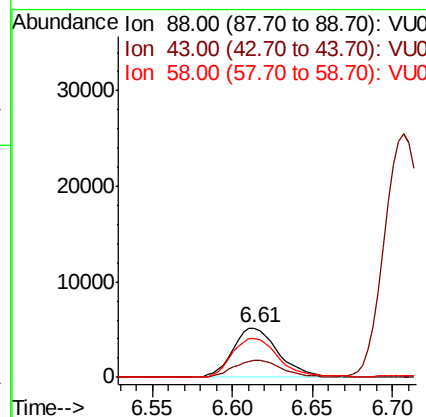
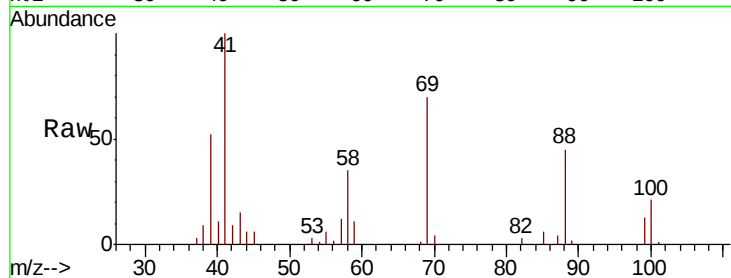
#49
1,4-Dioxane
Concen: 411.107 ug/l
RT: 6.61 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	36.5	30.9	46.3
58	81.2	62.4	93.6

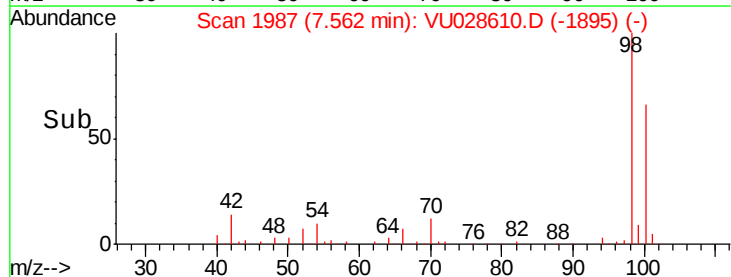
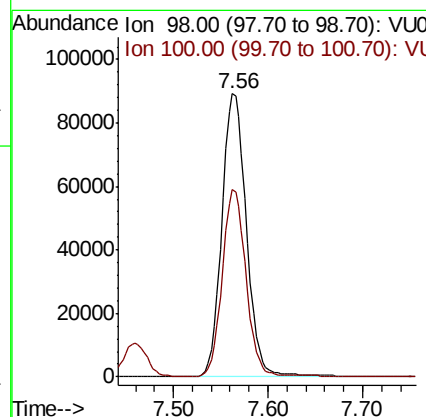
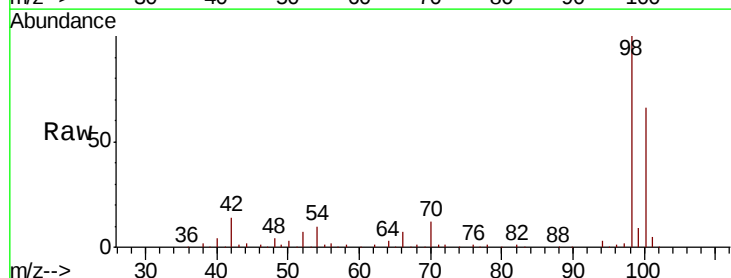
Manual Integrations
APPROVED

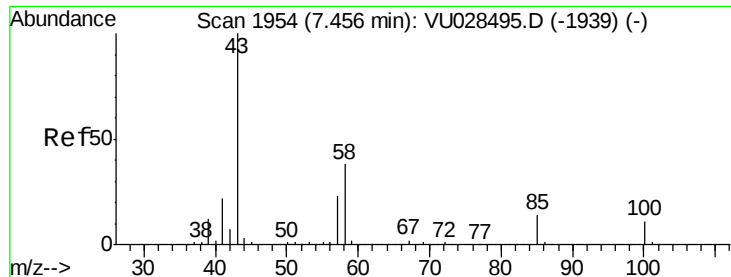
MMDadoda
12/12/2018 11:48:57 AM



#50
Toluene-d8
Concen: 46.753 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. -0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.1	51.0	76.6





#51

4-Methyl-2-Pentanone

Concen: 88.570 ug/l

RT: 7.46 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VU028610.D

Acq: 11 Dec 2018 16:25

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBS01

Tot Ion: 43 Resp: 172980

Ion Ratio Lower Upper

43 100

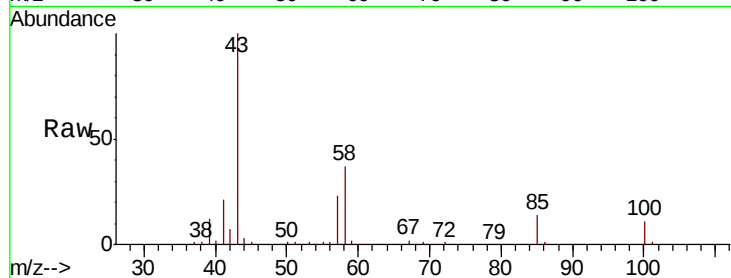
58 37.0 30.2 45.2

Manual Integrations

APPROVED

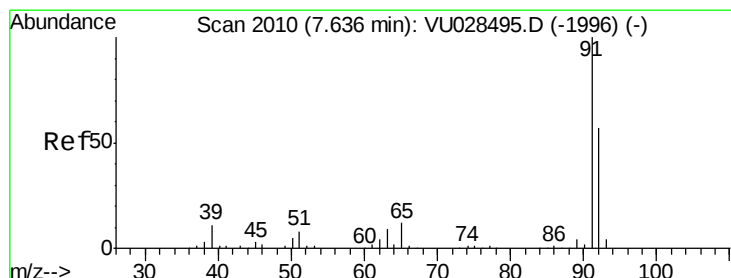
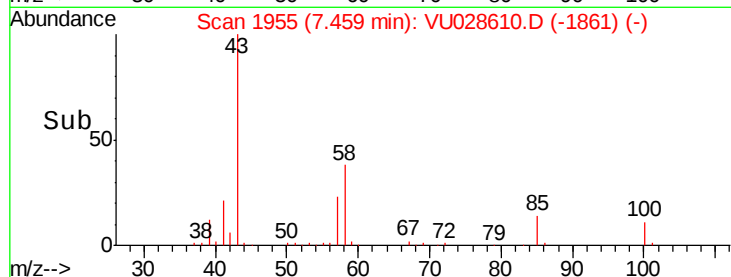
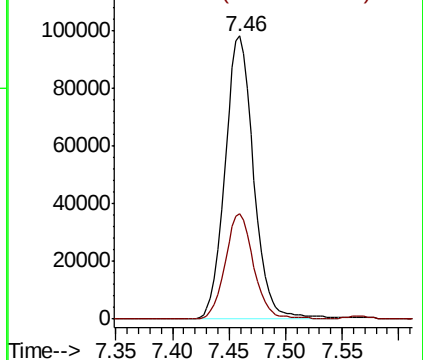
MMDadoda

12/12/2018 11:48:57 AM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#52

Toluene

Concen: 17.126 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. 0.00 min

Lab File: VU028610.D

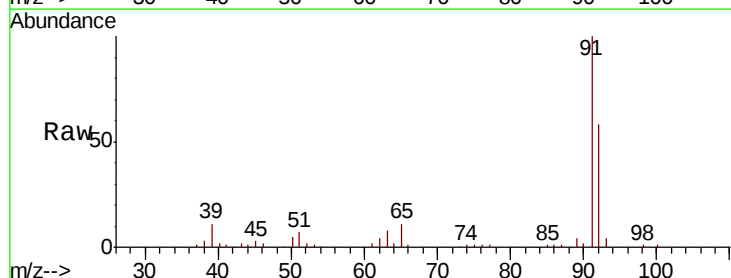
Acq: 11 Dec 2018 16:25

Tgt Ion: 92 Resp: 44956

Ion Ratio Lower Upper

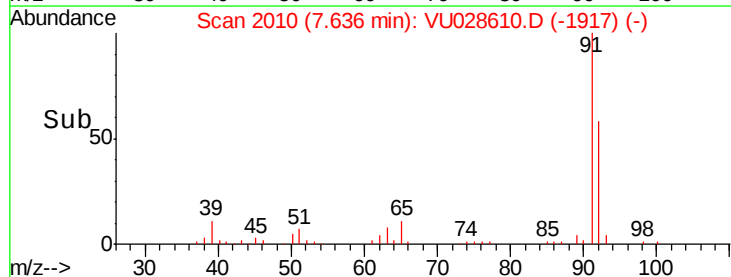
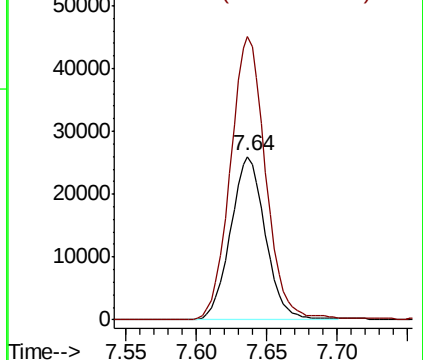
92 100

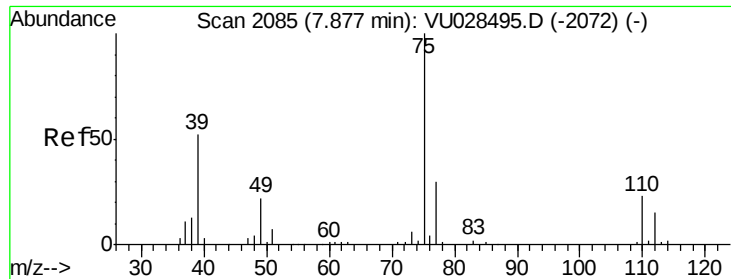
91 175.2 140.2 210.4



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0





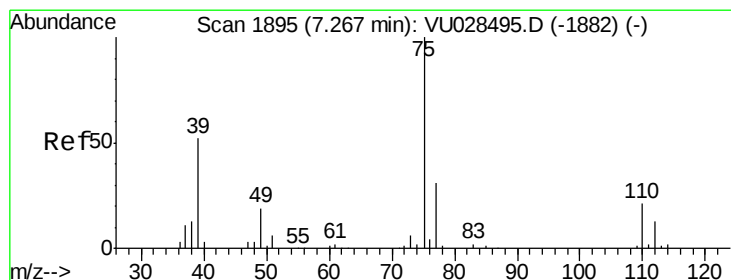
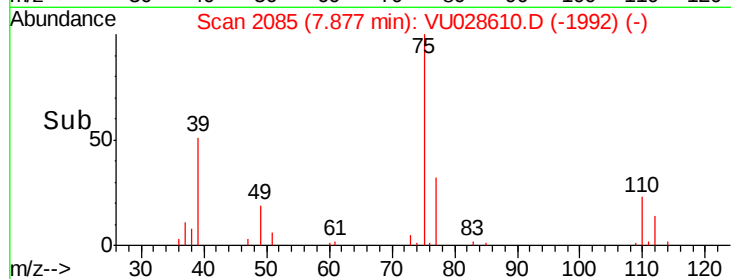
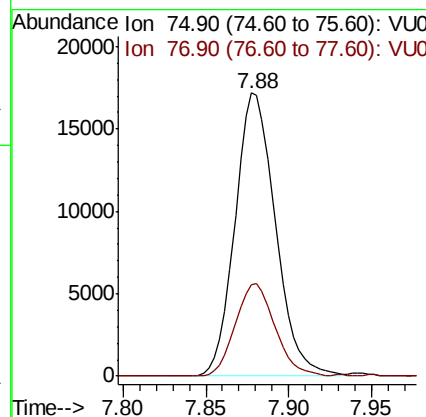
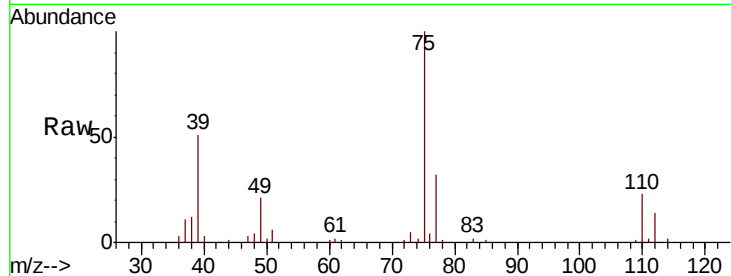
#53
t-1,3-Dichloropropene
Concen: 16.968 ug/l
RT: 7.88 min Scan# 2085
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.2	24.2	36.4

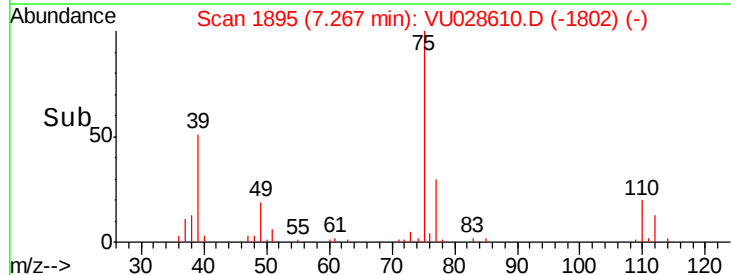
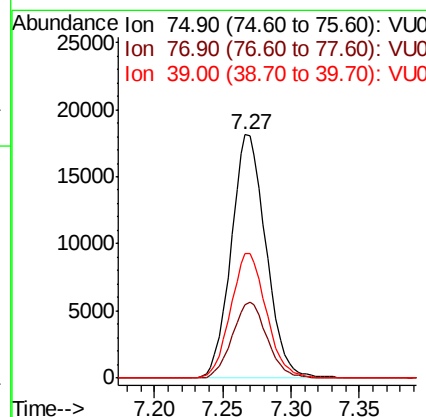
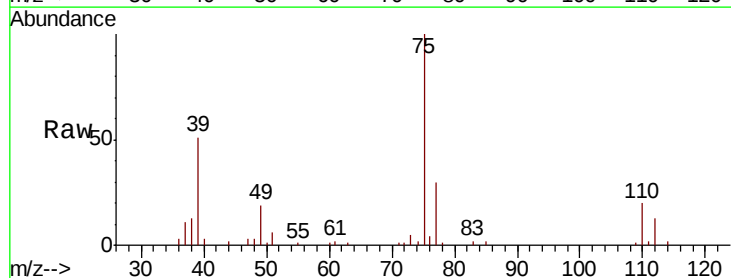
Manual Integrations
APPROVED

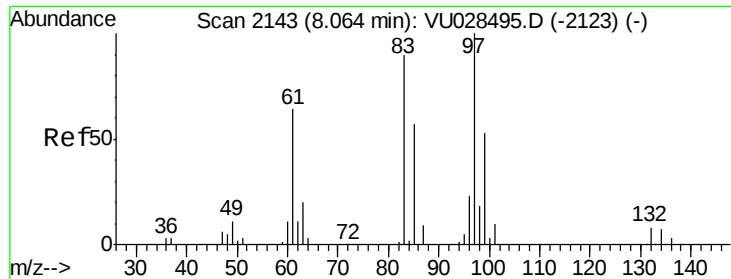
MMDadoda
12/12/2018 11:48:57 AM



#54
cis-1,3-Dichloropropene
Concen: 17.188 ug/l
RT: 7.27 min Scan# 1895
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Tgt Ion	Ratio	Lower	Upper
75	100		
77	30.0	25.0	37.4
39	50.9	41.3	61.9





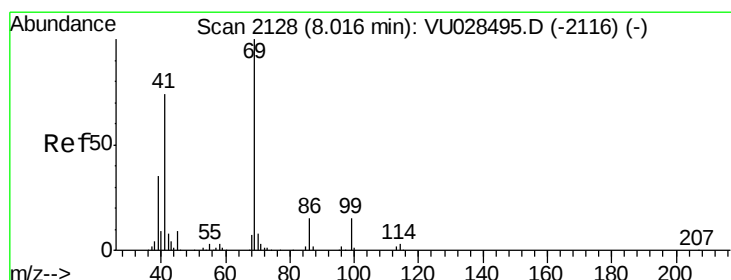
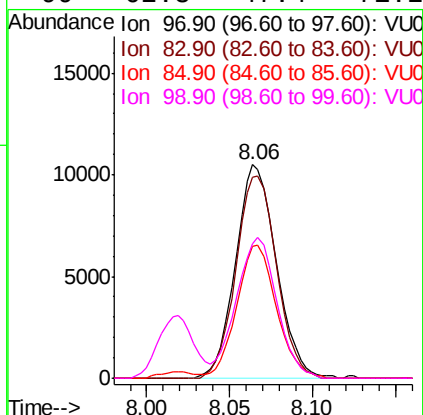
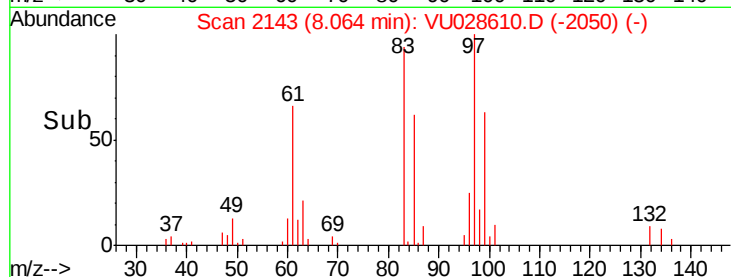
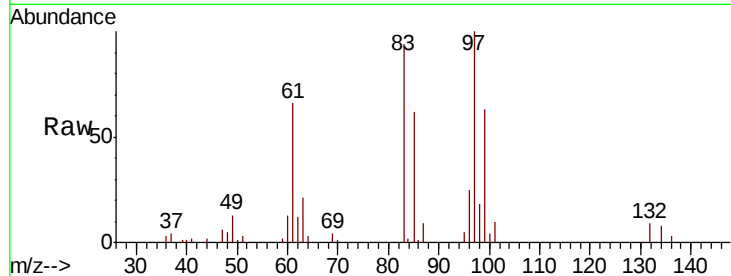
#55
 1,1,2-Trichloroethane
 Concen: 17.298 ug/l
 RT: 8.06 min Scan# 2143
 Delta R.T. 0.00 min
 Lab File: VU028610.D
 Acq: 11 Dec 2018 16:25

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1213WBS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	94.0	72.4	108.6
85	61.5	46.0	69.0
99	62.8	47.4	71.2

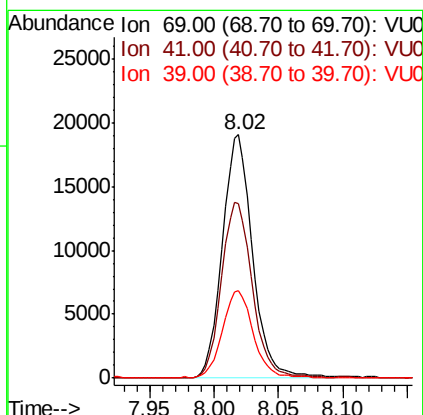
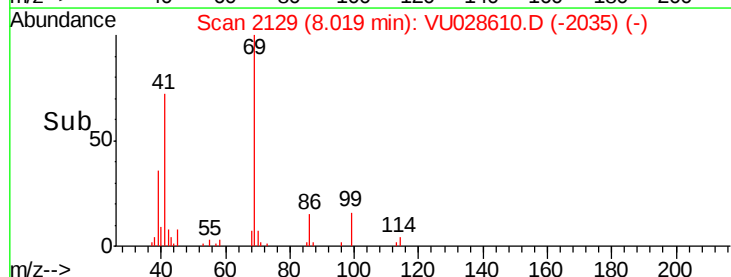
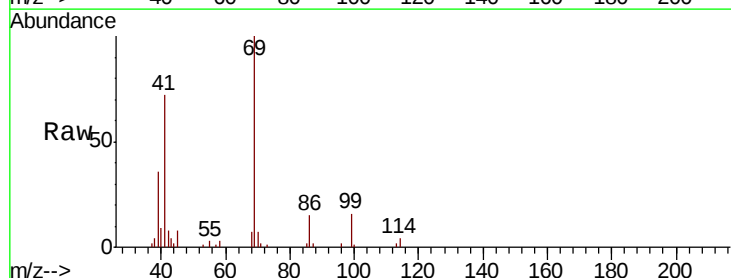
Manual Integrations
 APPROVED

MMDadoda
 12/12/2018 11:48:57 AM



#56
 Ethyl methacrylate
 Concen: 17.500 ug/l
 RT: 8.02 min Scan# 2129
 Delta R.T. 0.00 min
 Lab File: VU028610.D
 Acq: 11 Dec 2018 16:25

Tgt Ion	Ratio	Lower	Upper
69	100		
41	73.8	59.1	88.7
39	36.7	28.4	42.6





#57

1,3-Dichloropropane

Concen: 17.259 ug/l

RT: 8.24 min Scan# 2198

Delta R.T. 0.00 min

Lab File: VU028610.D

Acq: 11 Dec 2018 16:25

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBS01

Tot Ion: 76 Resp: 33244

Ion Ratio Lower Upper

76 100

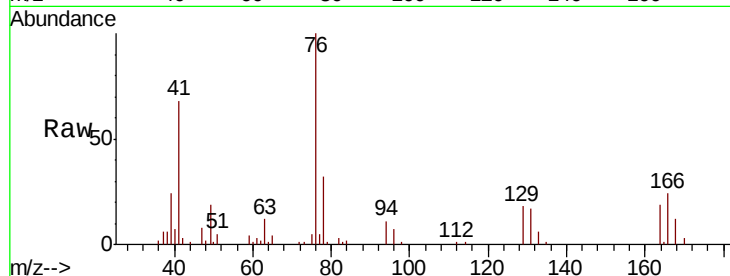
78 31.6 25.2 37.8

Manual Integrations

APPROVED

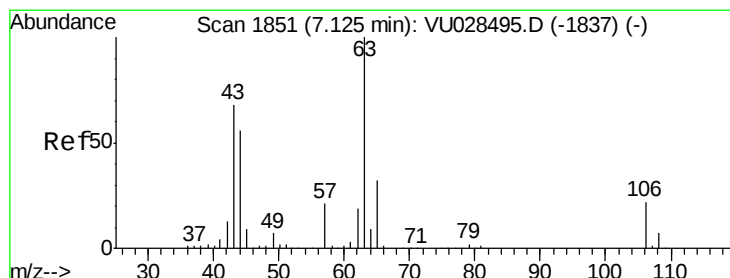
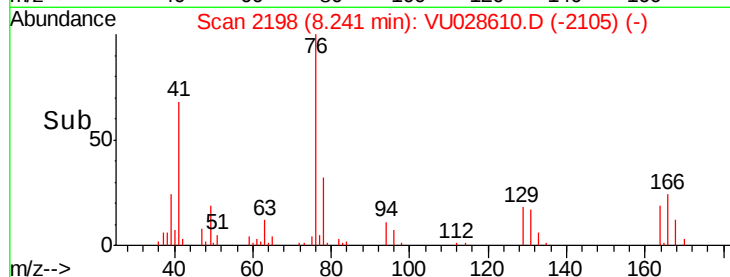
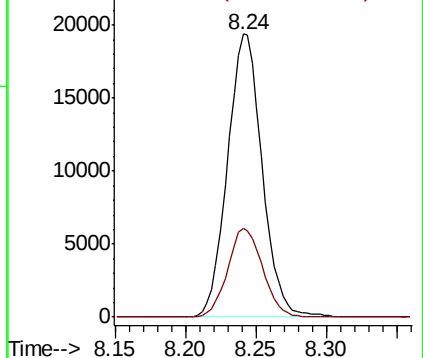
MMDadoda

12/12/2018 11:48:57 AM



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#58

2-Chloroethyl Vinyl ether

Concen: 81.099 ug/l

RT: 7.13 min Scan# 1851

Delta R.T. 0.00 min

Lab File: VU028610.D

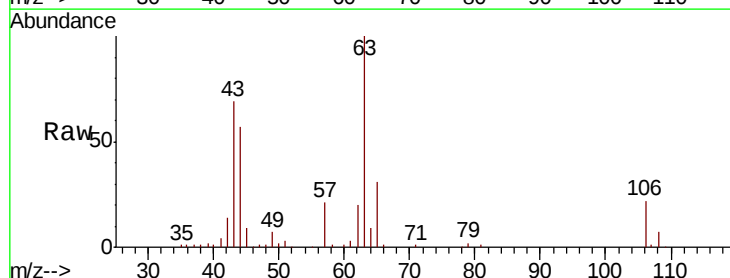
Acq: 11 Dec 2018 16:25

Tgt Ion: 63 Resp: 73812

Ion Ratio Lower Upper

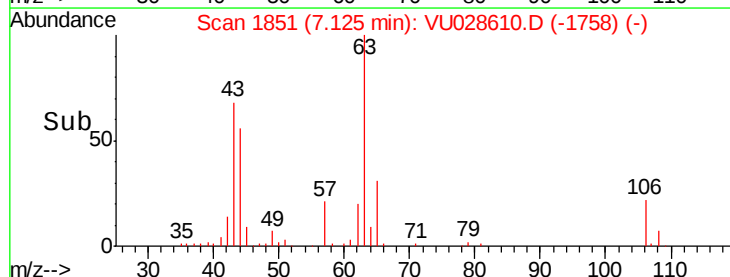
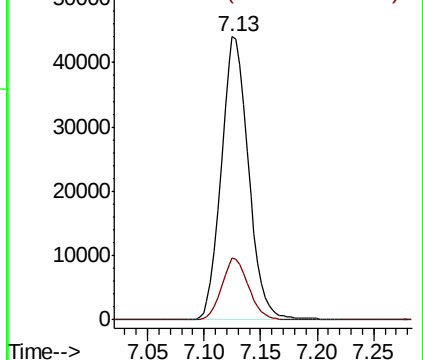
63 100

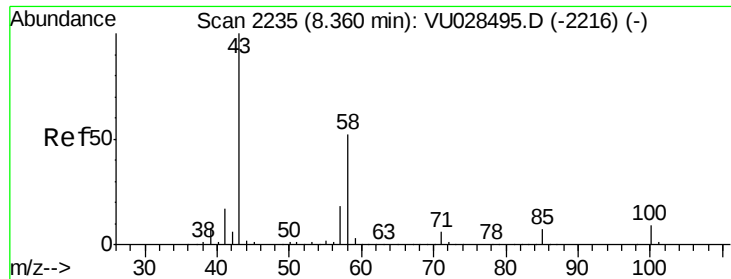
106 21.5 17.8 26.6



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 105.90 (105.60 to 106.60): V





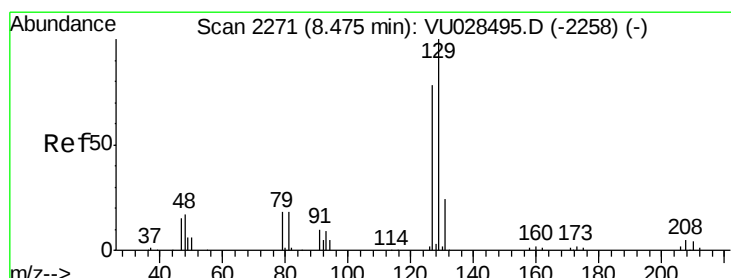
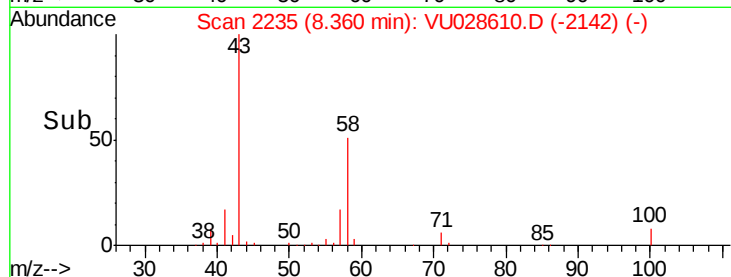
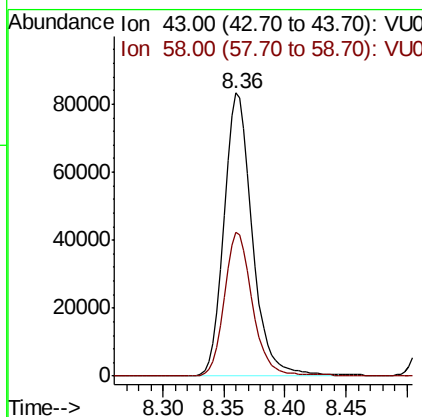
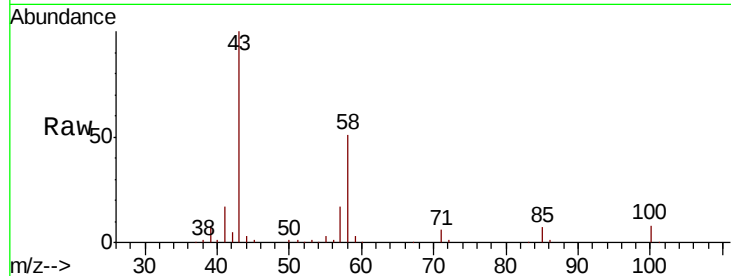
#59
2-Hexanone
Concen: 87.882 ug/l
RT: 8.36 min Scan# 2235
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS01

Tot Ion: 43 Resp: 136040
Ion Ratio Lower Upper
43 100
58 50.6 25.9 77.6

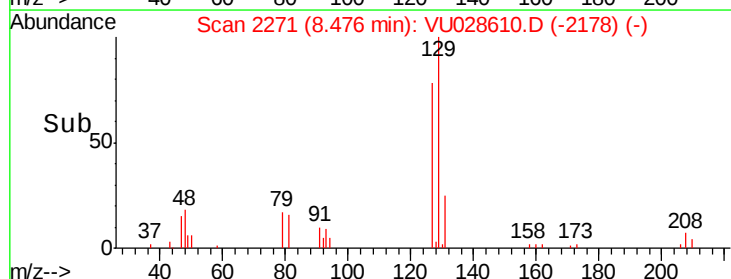
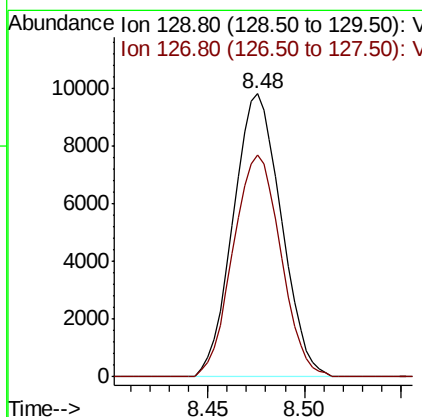
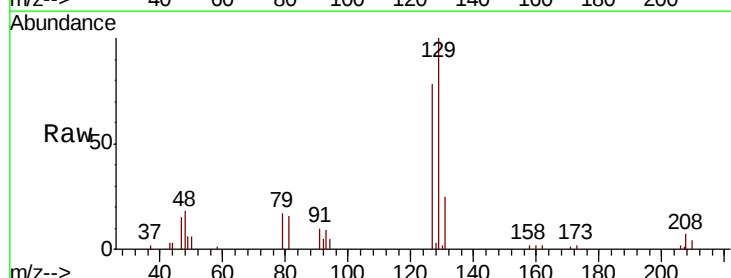
Manual Integrations
APPROVED

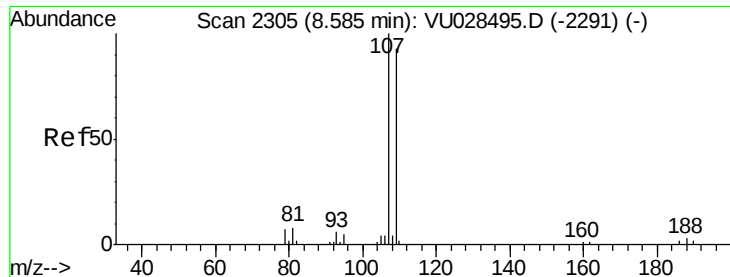
MMDadoda
12/12/2018 11:48:57 AM



#60
Dibromochloromethane
Concen: 16.656 ug/l
RT: 8.48 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Tgt Ion:129 Resp: 16921
Ion Ratio Lower Upper
129 100
127 77.9 39.1 117.3





#61

1,2-Dibromoethane

Concen: 17.579 ug/l

RT: 8.58 min Scan# 2305

Delta R.T. 0.00 min

Lab File: VU028610.D

Acq: 11 Dec 2018 16:25

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBS01

Tot Ion:107 Resp: 19129

Ion Ratio Lower Upper

107 100

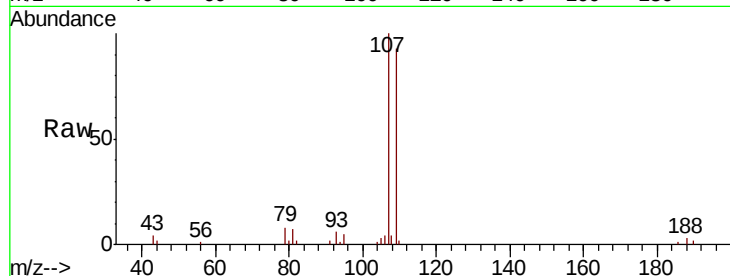
109 93.8 74.5 111.7

Manual Integrations

APPROVED

MMDadoda

12/12/2018 11:48:57 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

8.58

12000

10000

8000

6000

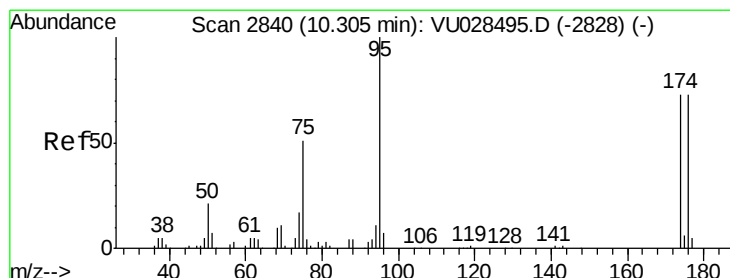
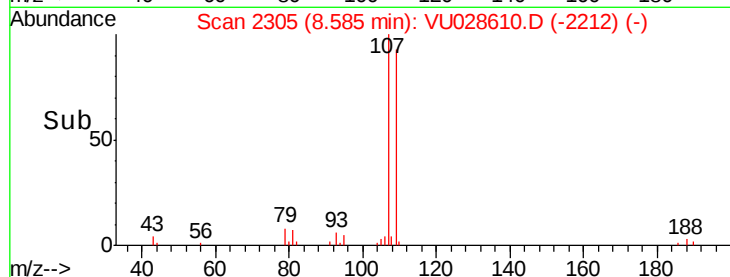
4000

2000

0

8.55 8.60 8.65

Time-->



#62

4-Bromofluorobenzene

Concen: 45.376 ug/l

RT: 10.31 min Scan# 2840

Delta R.T. 0.00 min

Lab File: VU028610.D

Acq: 11 Dec 2018 16:25

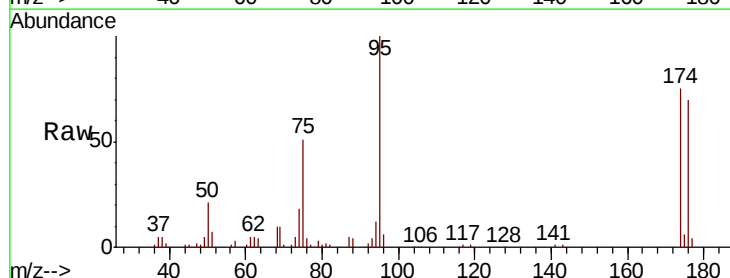
Tgt Ion: 95 Resp: 58431

Ion Ratio Lower Upper

95 100

174 74.2 0.0 150.4

176 72.1 0.0 145.2



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

50000

40000

30000

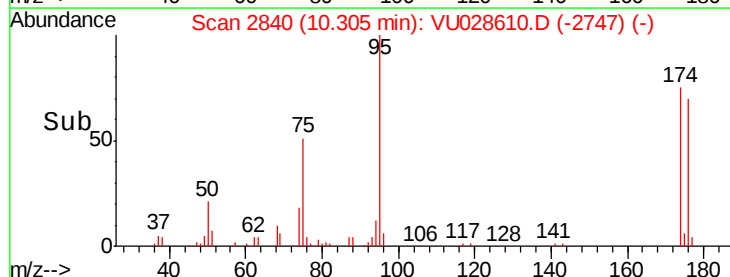
20000

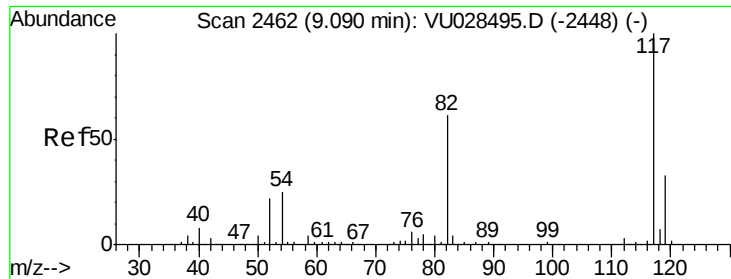
10000

0

10.25 10.30 10.35 10.40

Time-->





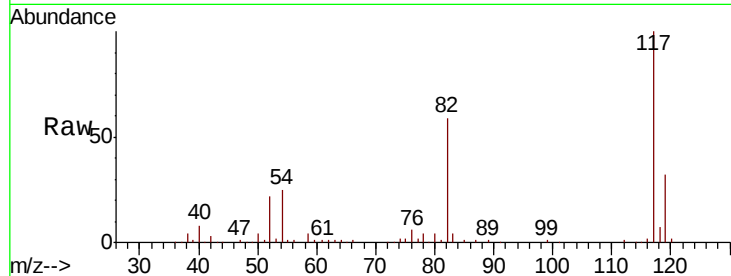
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	59.3	48.9	73.3
119	32.0	26.2	39.4

Manual Integrations
APPROVED

MMDadoda
12/12/2018 11:48:57 AM

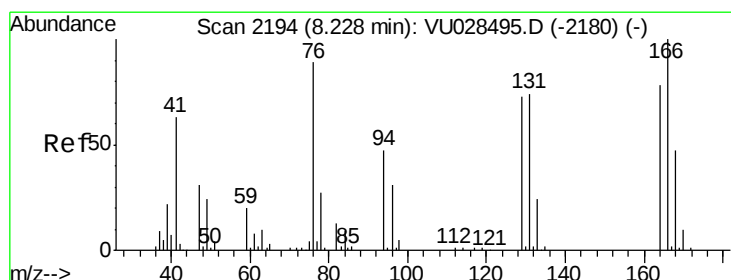
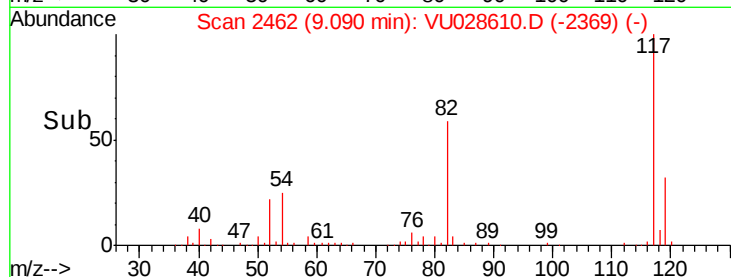
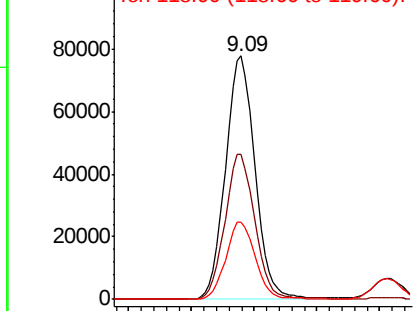


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 17.242 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Tgt Ion	Ratio	Lower	Upper
164	100		
166	121.9	101.9	152.9
129	97.9	74.9	112.3
131	91.9	75.4	113.0

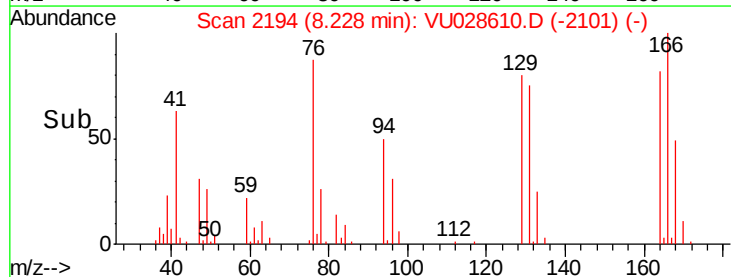
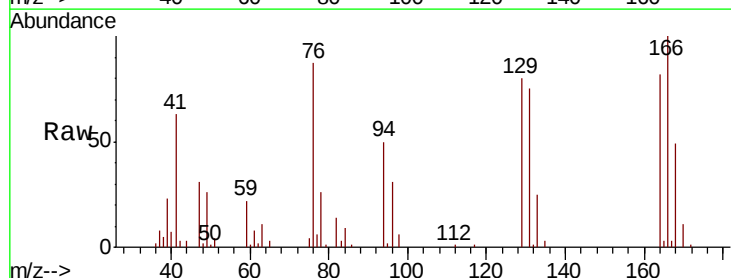
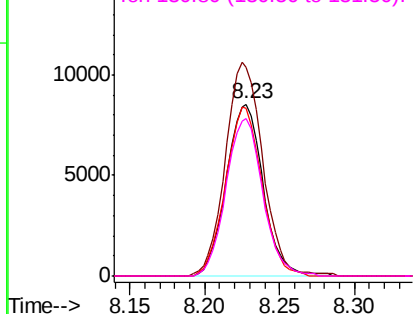
Abundance

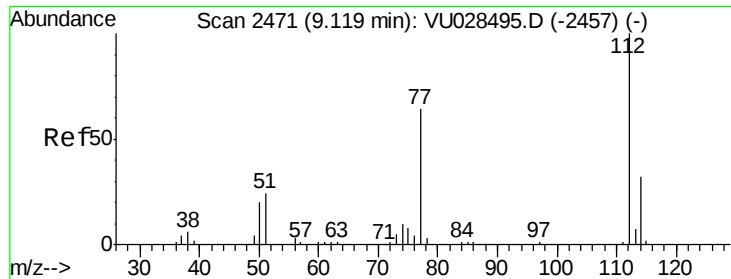
Ion 163.80 (163.50 to 164.50): V

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





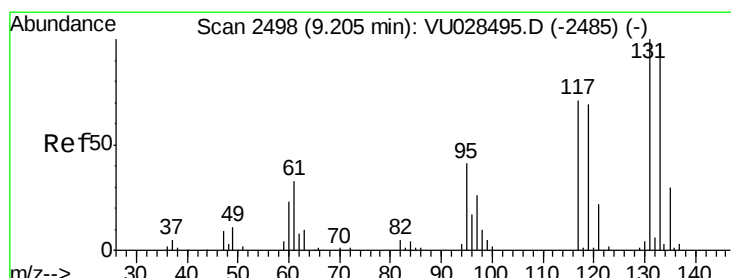
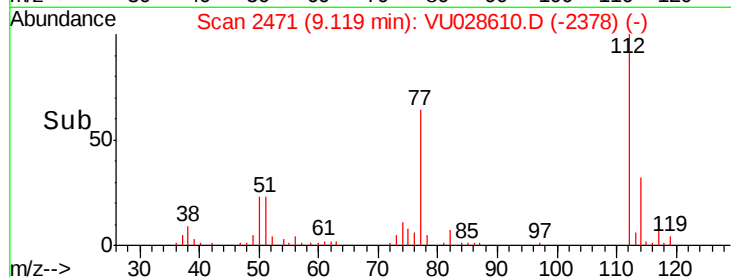
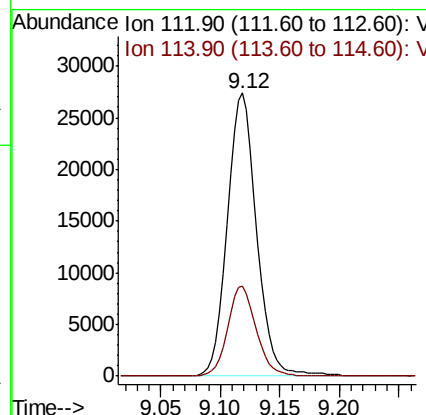
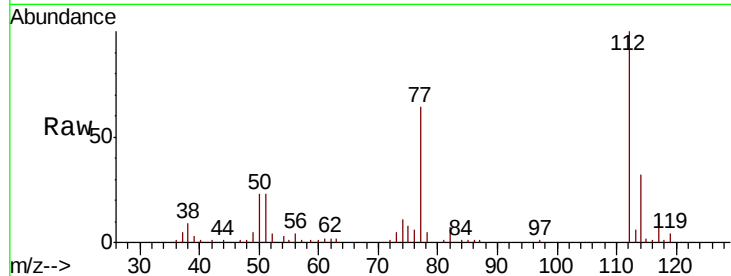
#65
Chlorobenzene
Concen: 17.188 ug/l
RT: 9.12 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS01

Tot Ion:112 Resp: 46655
Ion Ratio Lower Upper
112 100
114 31.7 25.3 37.9

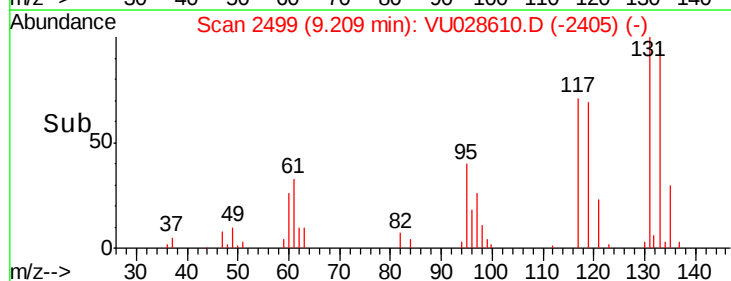
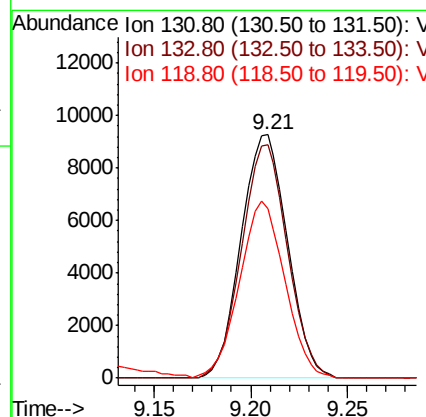
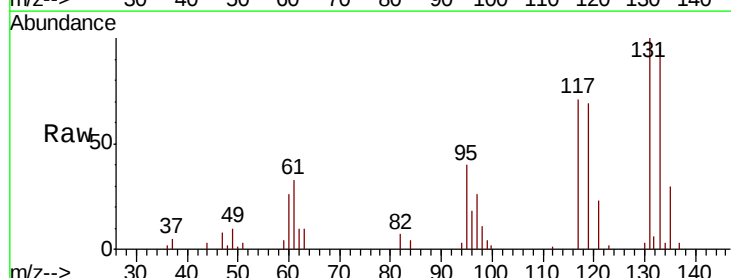
Manual Integrations
APPROVED

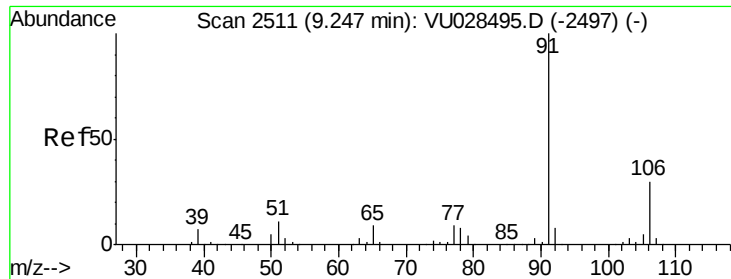
MMDadoda
12/12/2018 11:48:57 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 17.904 ug/l
RT: 9.21 min Scan# 2499
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Tgt Ion:131 Resp: 15519
Ion Ratio Lower Upper
131 100
133 94.8 48.0 144.0
119 70.6 34.6 103.9





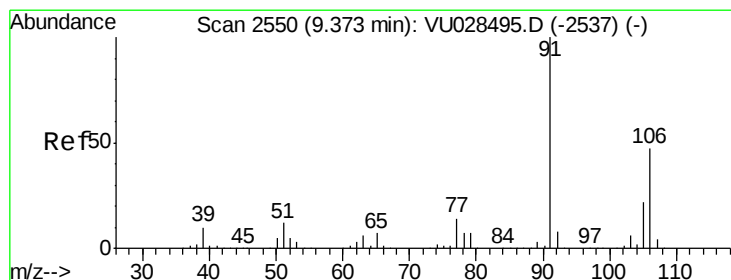
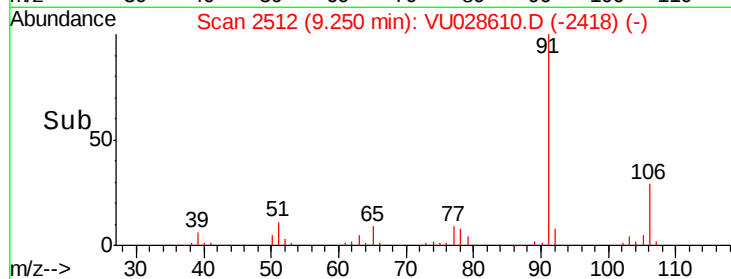
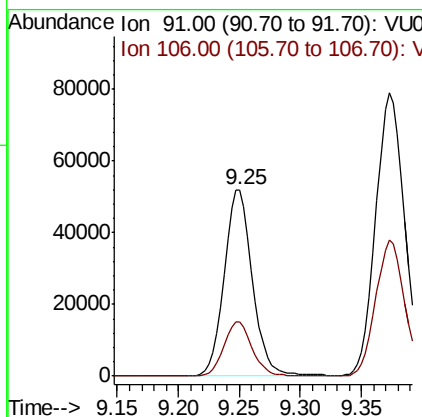
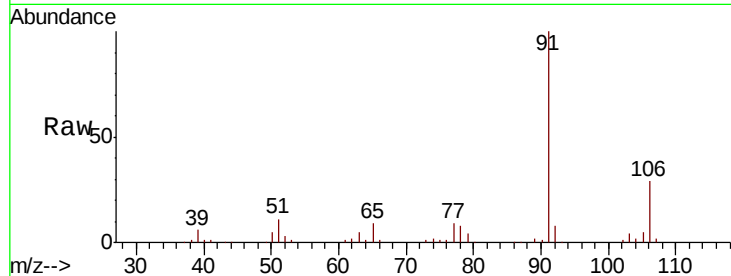
#67
Ethyl Benzene
Concen: 16.993 ug/l
RT: 9.25 min Scan# 2512
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS01

Tot Ion: 91 Resp: 84794
Ion Ratio Lower Upper
91 100
106 29.2 24.1 36.1

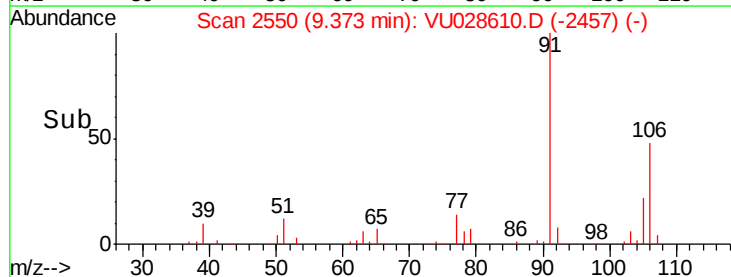
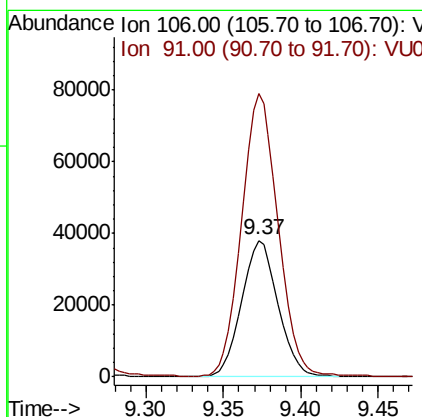
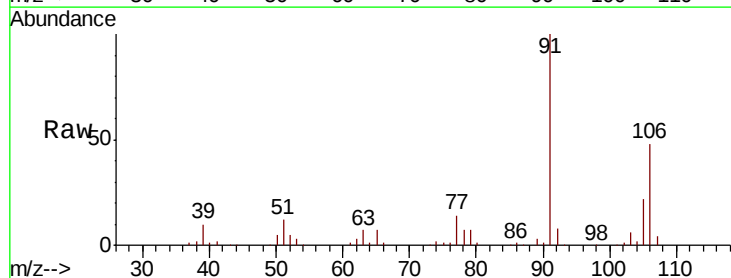
Manual Integrations
APPROVED

MMDadoda
12/12/2018 11:48:57 AM



#68
m/p-Xylenes
Concen: 34.399 ug/l
RT: 9.37 min Scan# 2550
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Tgt Ion: 106 Resp: 62459
Ion Ratio Lower Upper
106 100
91 207.2 167.4 251.0





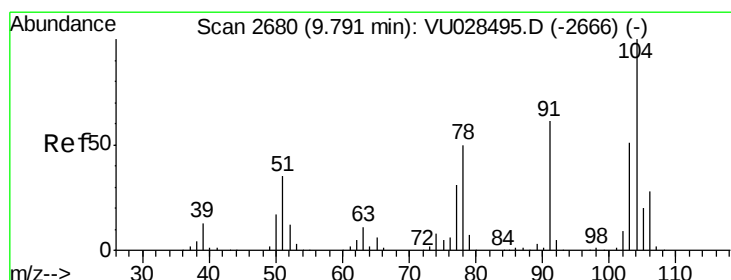
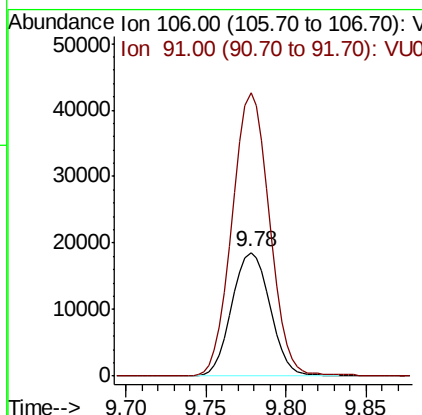
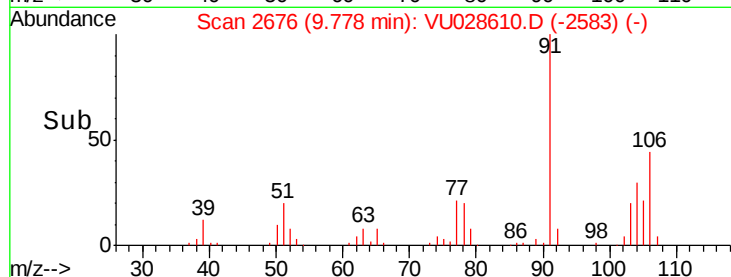
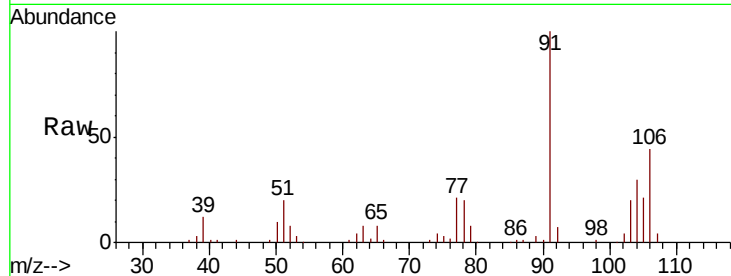
#69
o-Xylene
Concen: 17.160 ug/l
RT: 9.78 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS01

Tot Ion:106 Resp: 30279
Ion Ratio Lower Upper
106 100
91 223.9 111.3 334.0

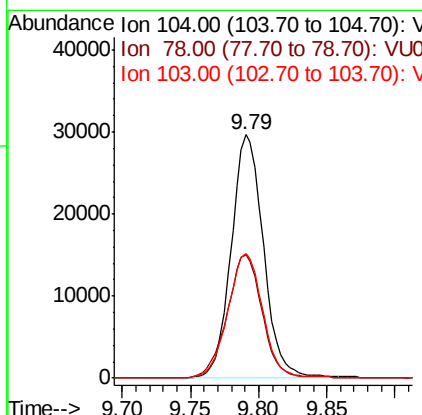
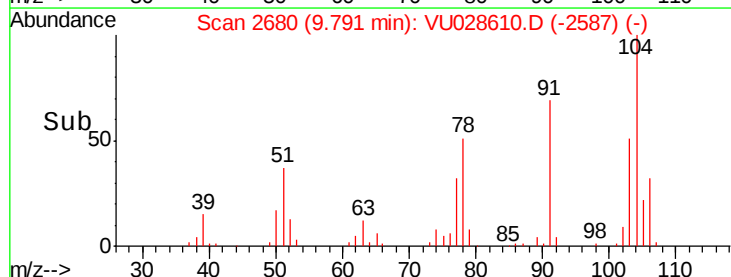
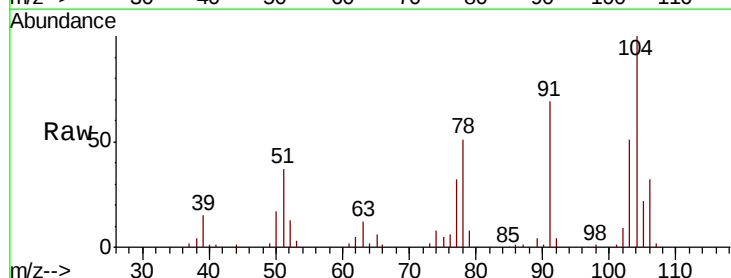
Manual Integrations
APPROVED

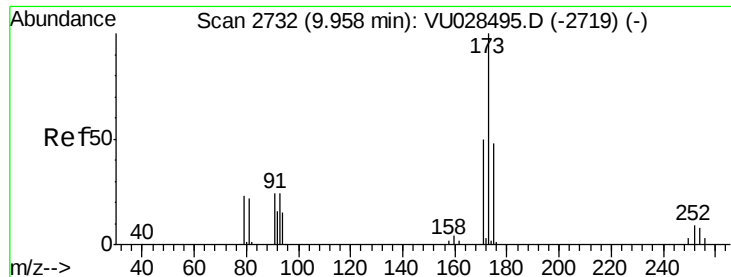
MMDadoda
12/12/2018 11:48:57 AM



#70
Styrene
Concen: 16.706 ug/l
RT: 9.79 min Scan# 2680
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Tgt Ion:104 Resp: 48784
Ion Ratio Lower Upper
104 100
78 55.0 43.0 64.6
103 55.4 44.2 66.4





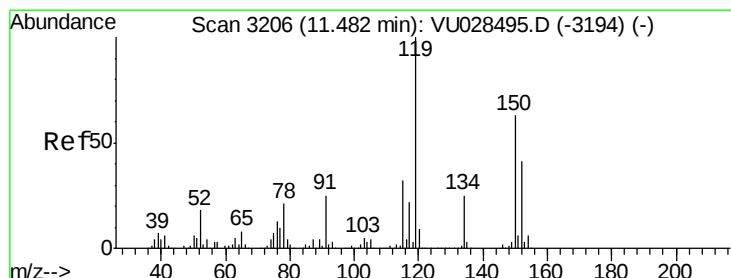
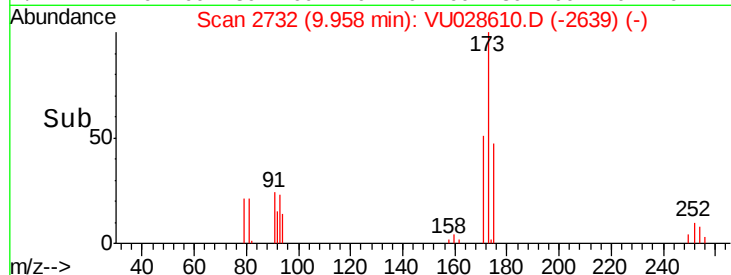
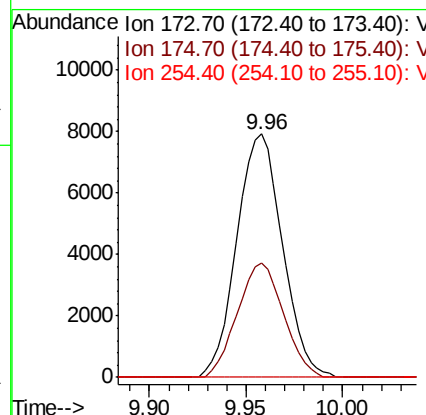
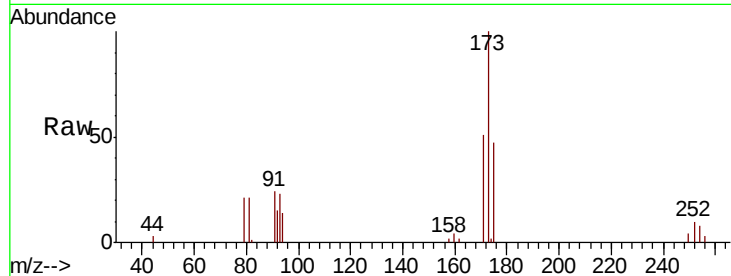
#71
Bromoform
Concen: 17.619 ug/l
RT: 9.96 min Scan# 2732
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.4	23.9	71.8
254	0.0	0.0	0.0

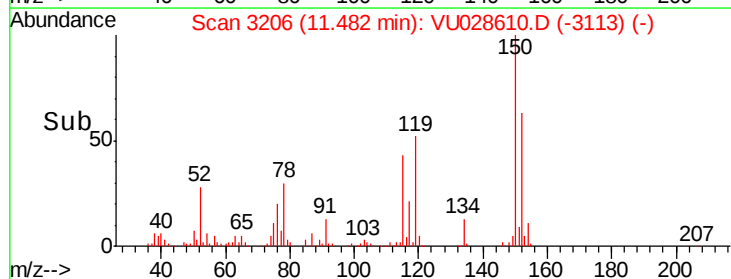
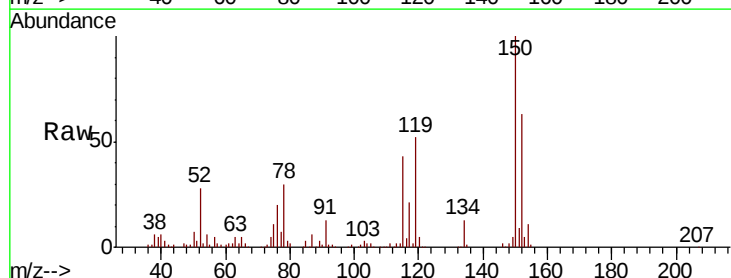
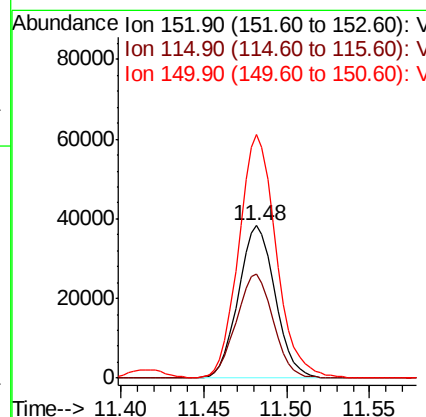
Manual Integrations
APPROVED

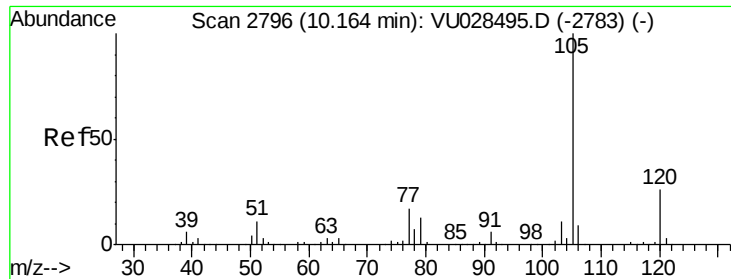
MMDadoda
12/12/2018 11:48:57 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Tgt Ion	Ratio	Lower	Upper
152	100		
115	68.6	42.7	128.1
150	163.9	0.0	346.0





#73

Isopropylbenzene

Concen: 17.642 ug/l

RT: 10.16 min Scan# 2796

Delta R.T. 0.00 min

Lab File: VU028610.D

Acq: 11 Dec 2018 16:25

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBS01

Tot Ion: 105 Resp: 79704

Ion Ratio Lower Upper

105 100

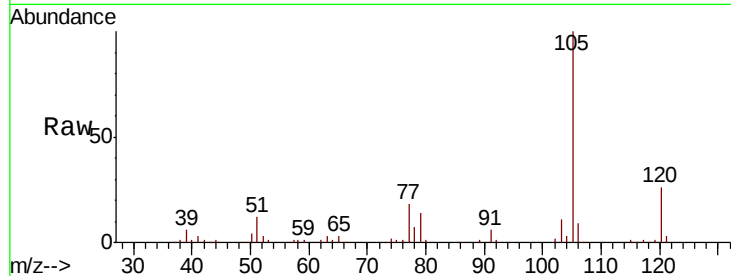
120 25.9 12.9 38.6

Manual Integrations

APPROVED

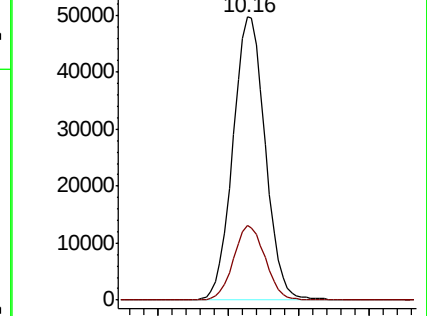
MMDadoda

12/12/2018 11:48:57 AM

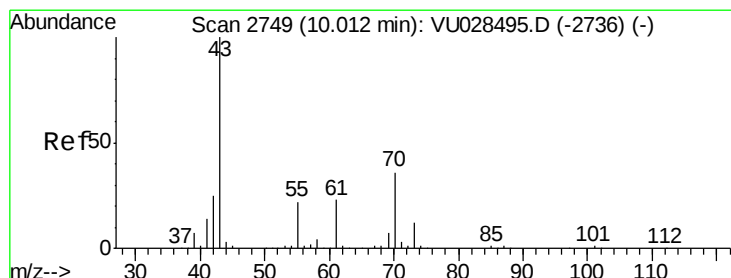
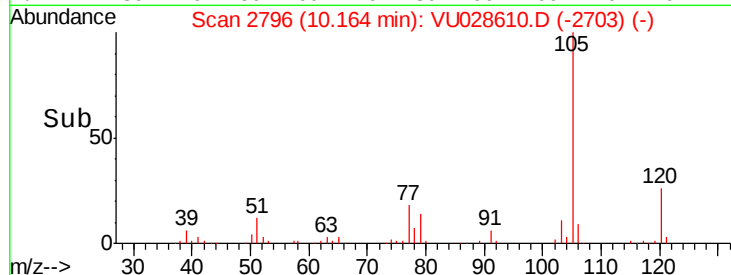


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



Time-->



#74

N-ethyl acetate

Concen: 17.947 ug/l

RT: 10.01 min Scan# 2749

Delta R.T. 0.00 min

Lab File: VU028610.D

Acq: 11 Dec 2018 16:25

Tgt Ion: 43 Resp: 46770

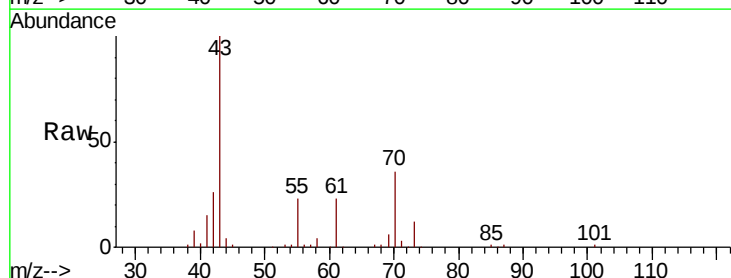
Ion Ratio Lower Upper

43 100

70 36.1 29.3 43.9

55 22.7 18.0 27.0

61 22.7 18.3 27.5

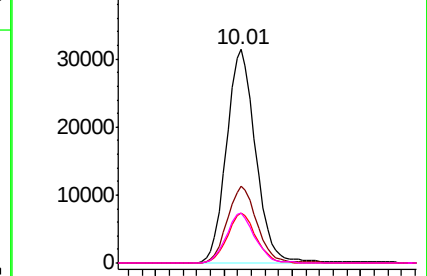


Abundance Ion 43.00 (42.70 to 43.70): VU0

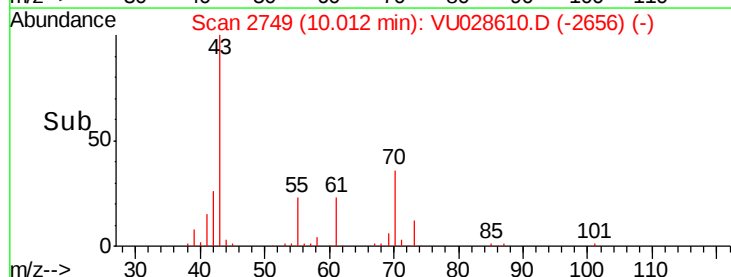
Ion 70.00 (69.70 to 70.70): VU0

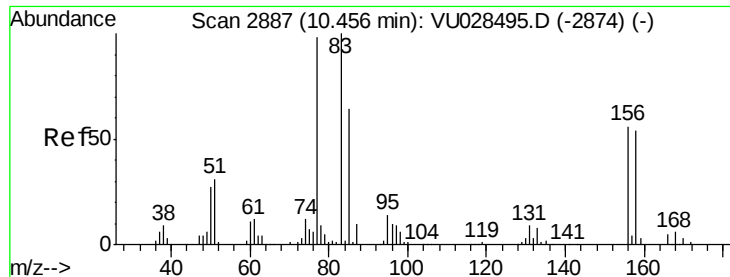
Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0



Time-->





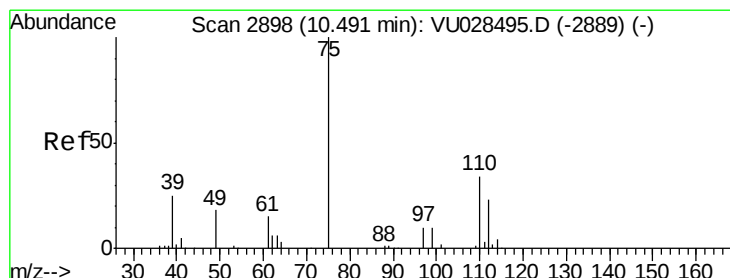
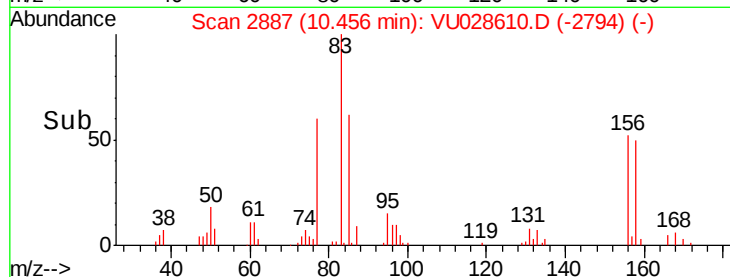
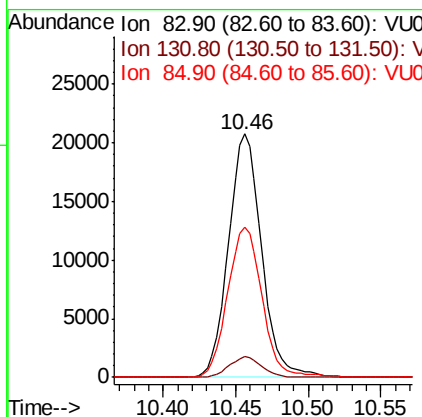
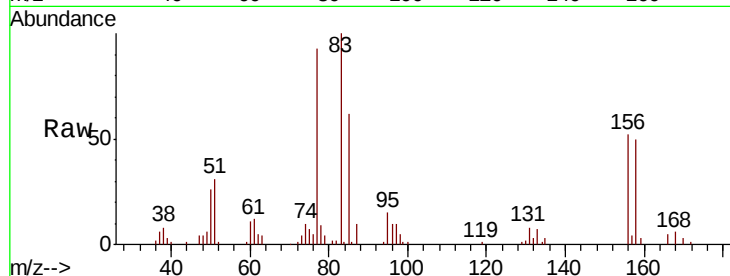
#75
 1,1,2,2-Tetrachloroethane
 Concen: 18.944 ug/l
 RT: 10.46 min Scan# 2887
 Delta R.T. 0.00 min
 Lab File: VU028610.D
 Acq: 11 Dec 2018 16:25

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1213WBS01

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
131	8.1	4.2	12.4	
85	64.0	31.8	95.4	

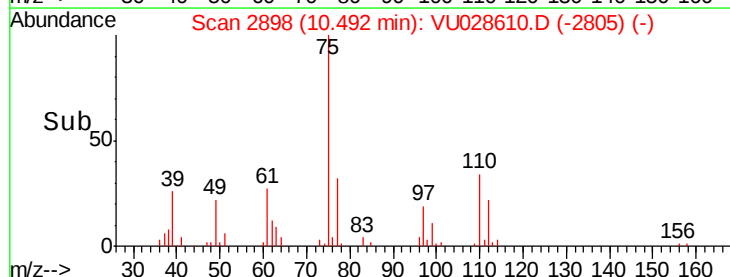
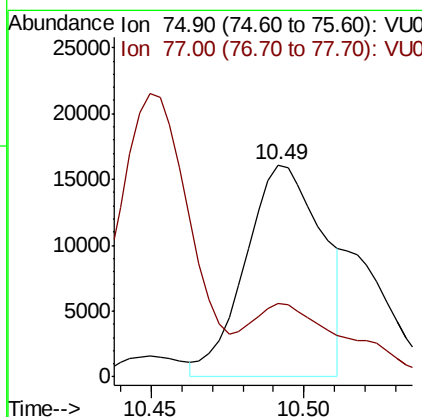
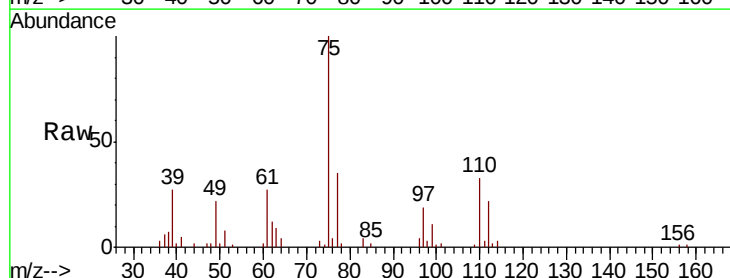
Manual Integrations
 APPROVED

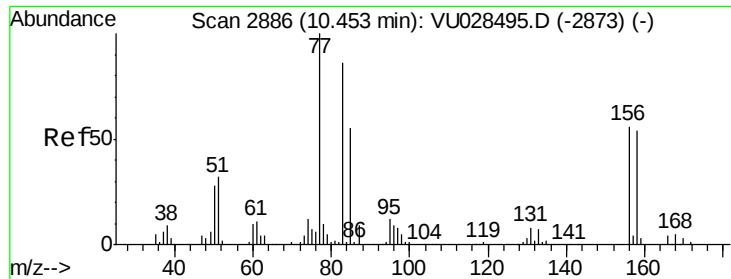
MMDadoda
 12/12/2018 11:48:57 AM



#76
 1,2,3-Trichloropropane
 Concen: 18.685 ug/l m
 RT: 10.49 min Scan# 2898
 Delta R.T. 0.00 min
 Lab File: VU028610.D
 Acq: 11 Dec 2018 16:25

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
77	42.9	20.8	62.4	





#77

Bromobenzene

Concen: 18.192 ug/l

RT: 10.45 min Scan# 2885

Delta R.T. -0.00 min

Lab File: VU028610.D

Acq: 11 Dec 2018 16:25

Instrument :

MSVOA_U

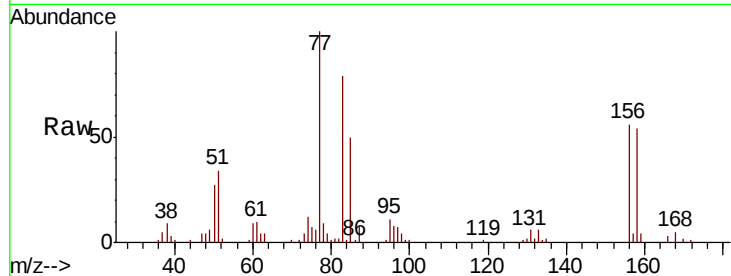
ClientSampleId :

VU1213WBS01

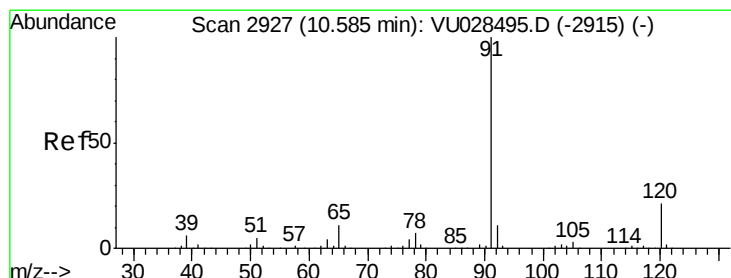
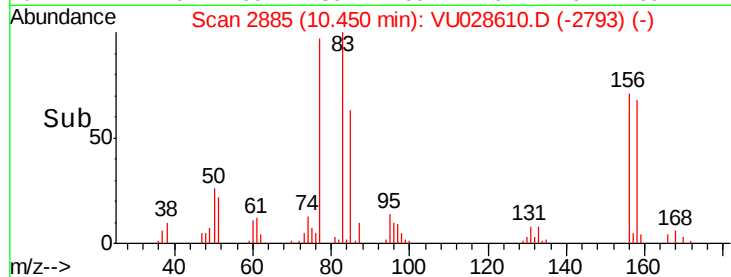
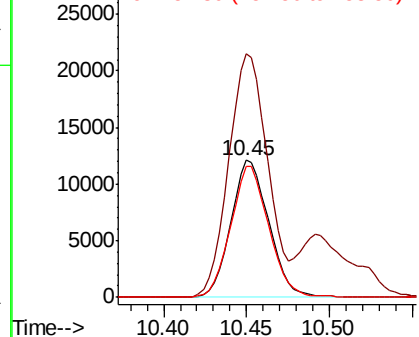
Tot Ion:	156	Resp:	19221
Ion Ratio	Lower	Upper	
156	100		
77	182.7	92.4	277.2
158	96.2	48.4	145.3

Manual Integrations
APPROVED

MMDadoda
12/12/2018 11:48:57 AM



Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): VU
Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 17.606 ug/l

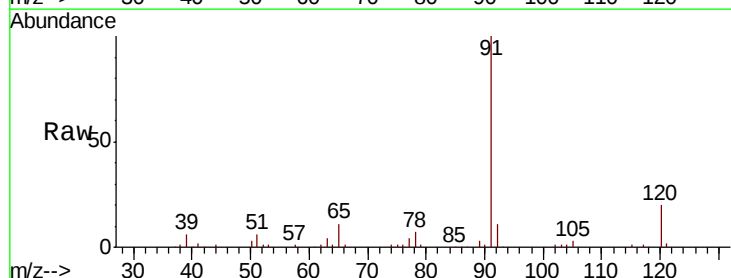
RT: 10.58 min Scan# 2927

Delta R.T. 0.00 min

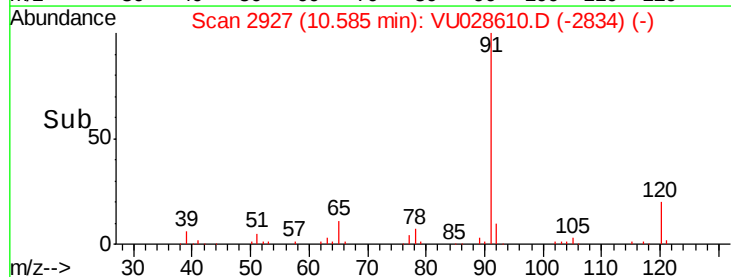
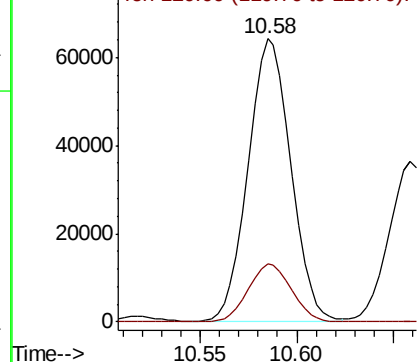
Lab File: VU028610.D

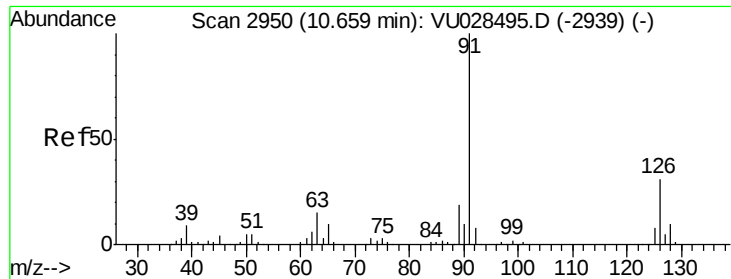
Acq: 11 Dec 2018 16:25

Tgt Ion:	91	Resp:	98836
Ion Ratio	Lower	Upper	
91	100		
120	20.7	10.6	31.8



Abundance Ion 91.00 (90.70 to 91.70): VU
Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 18.013 ug/l

RT: 10.66 min Scan# 2950

Delta R.T. 0.00 min

Lab File: VU028610.D

Acq: 11 Dec 2018 16:25

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBS01

Tot Ion: 91 Resp: 58247

Ion Ratio Lower Upper

91 100

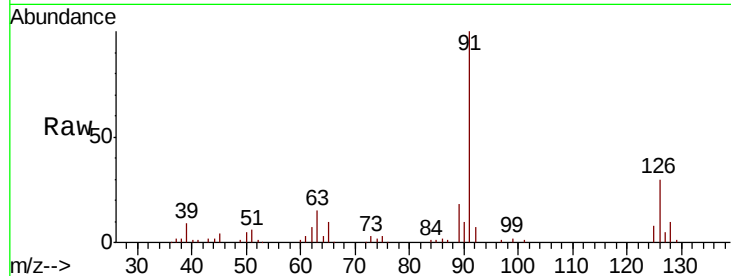
126 30.5 15.6 46.8

Manual Integrations

APPROVED

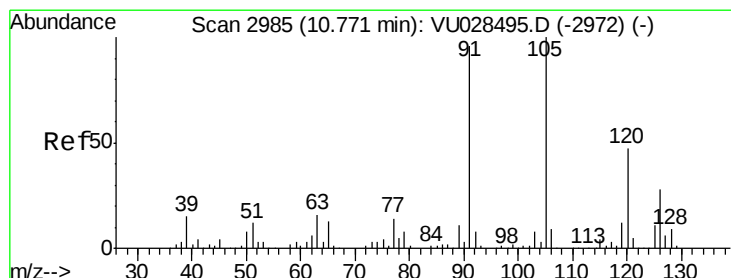
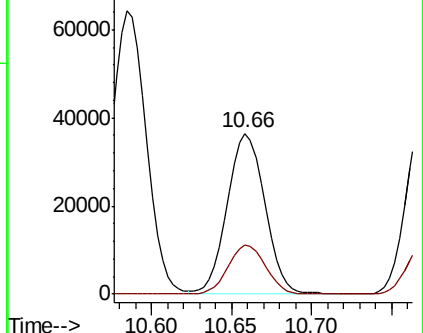
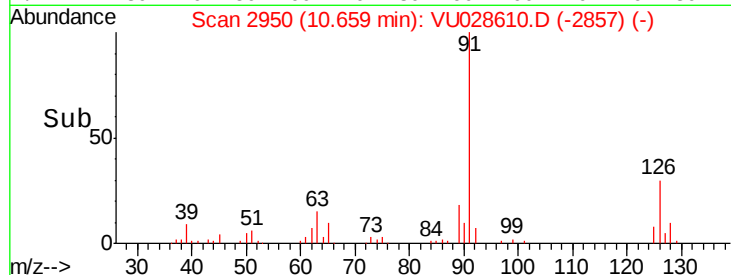
MMDadoda

12/12/2018 11:48:57 AM



Abundance Ion 91.00 (90.70 to 91.70): VU028610.D (-2857) (-)

Ion 125.90 (125.60 to 126.60): VU028610.D (-2857) (-)



#80

1,3,5-Trimethylbenzene

Concen: 17.863 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. 0.00 min

Lab File: VU028610.D

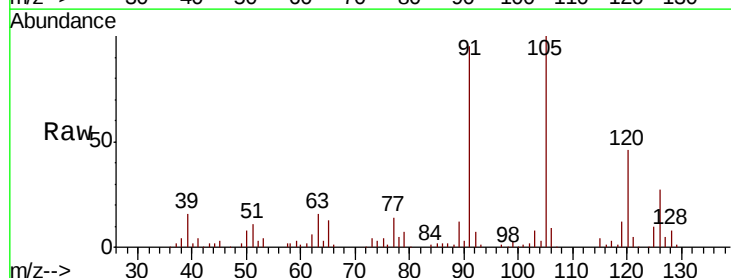
Acq: 11 Dec 2018 16:25

Tgt Ion: 105 Resp: 66802

Ion Ratio Lower Upper

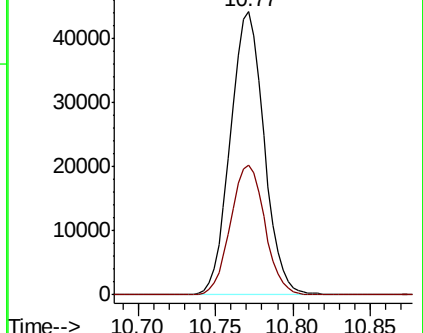
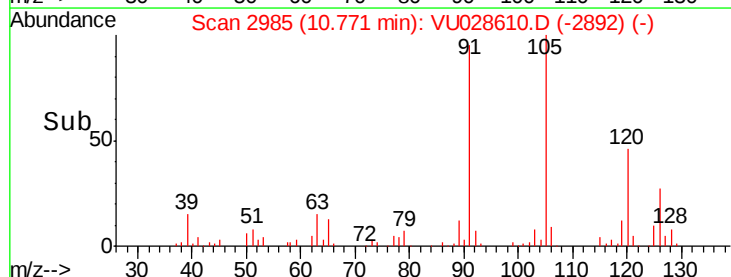
105 100

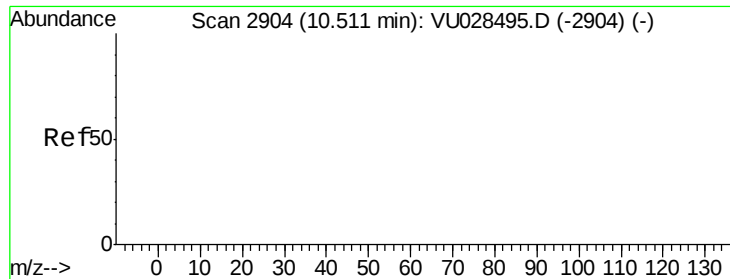
120 46.6 23.7 71.1



Abundance Ion 105.00 (104.70 to 105.70): VU028610.D (-2892) (-)

Ion 120.00 (119.70 to 120.70): VU028610.D (-2892) (-)





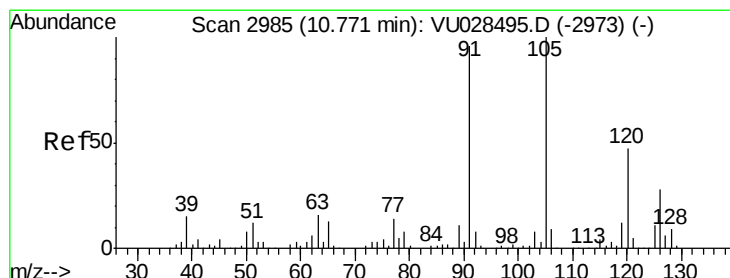
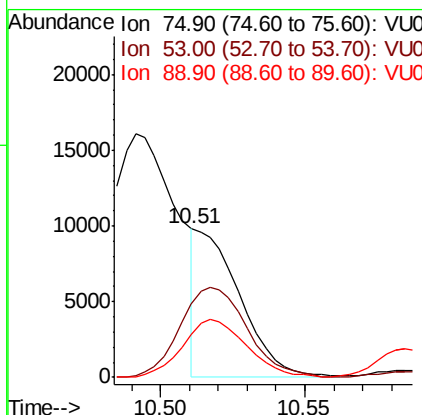
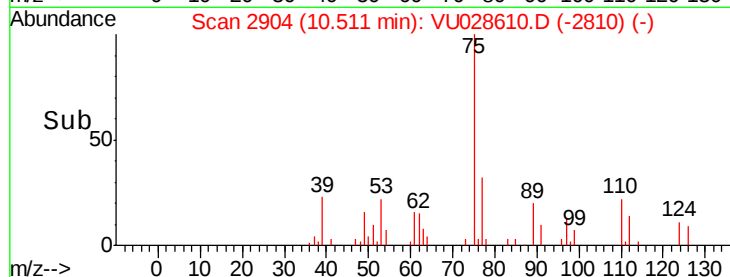
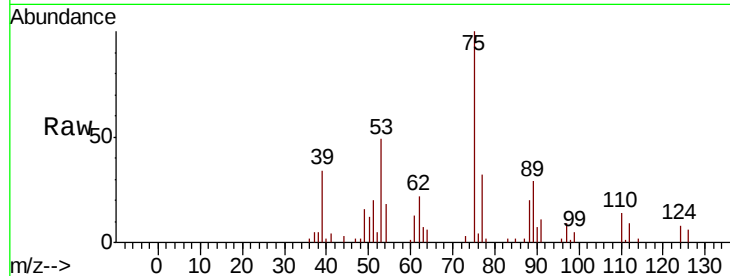
#81
trans-1,4-Dichloro-2-butene
Concen: 16.850 ug/l m
RT: 10.51 min Scan# 2904
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS01

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

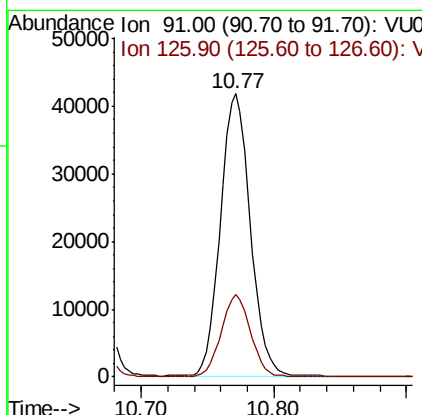
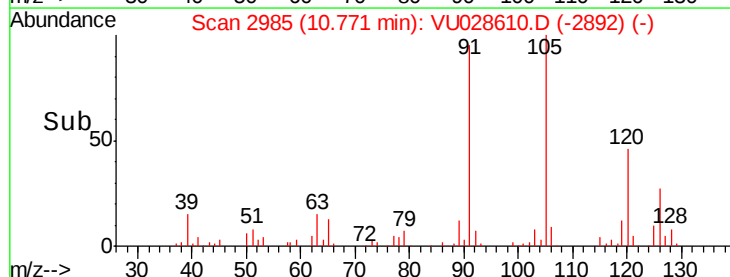
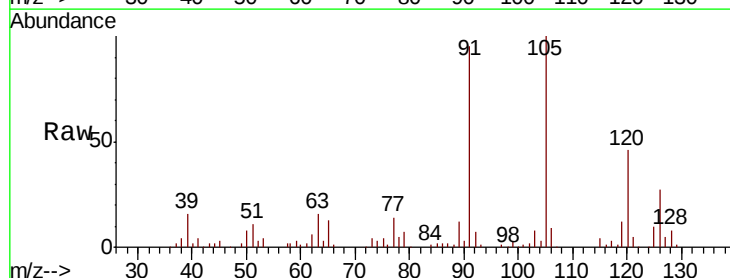
Manual Integrations
APPROVED

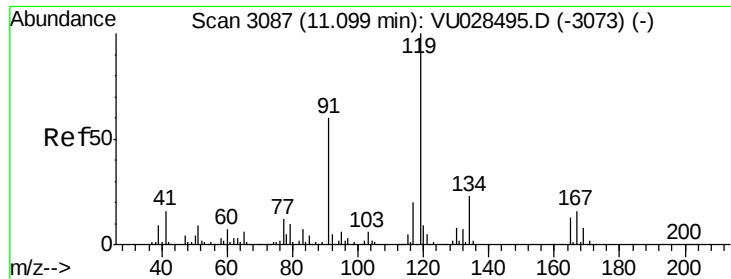
MMDadoda
12/12/2018 11:48:57 AM



#82
4-Chlorotoluene
Concen: 17.207 ug/l
RT: 10.77 min Scan# 2985
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Tgt Ion	Ratio	Lower	Upper
91	100		
126	28.3	14.1	42.3





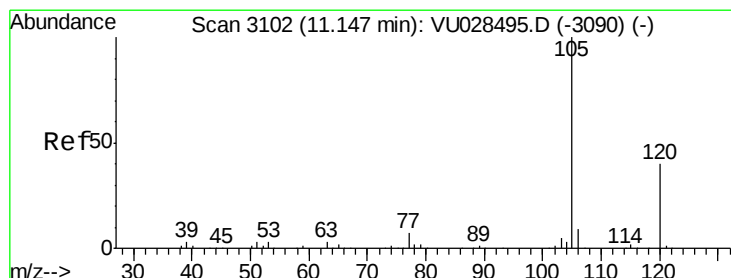
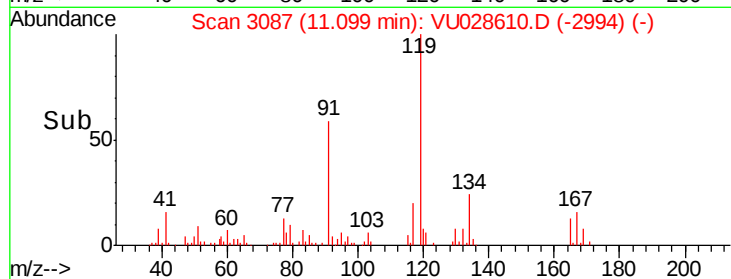
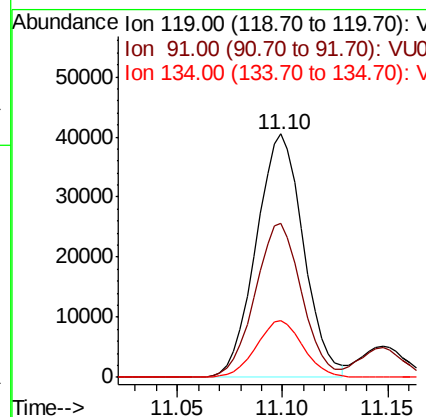
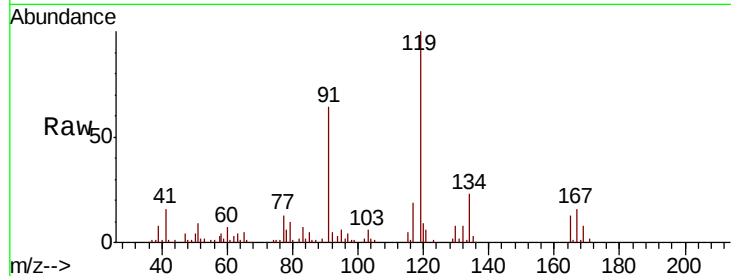
#83
tert-Butylbenzene
Concen: 17.547 ug/l
RT: 11.10 min Scan# 3087
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	62.5	30.3	91.0
134	23.0	11.2	33.5

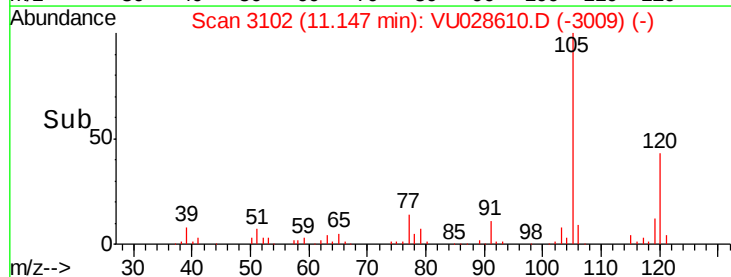
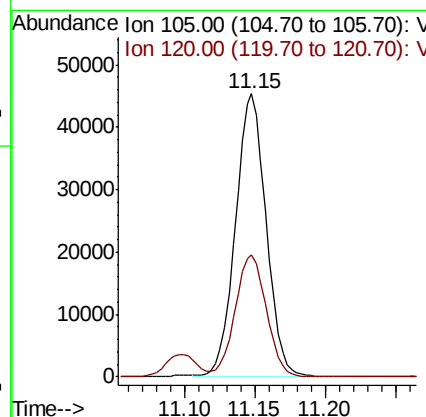
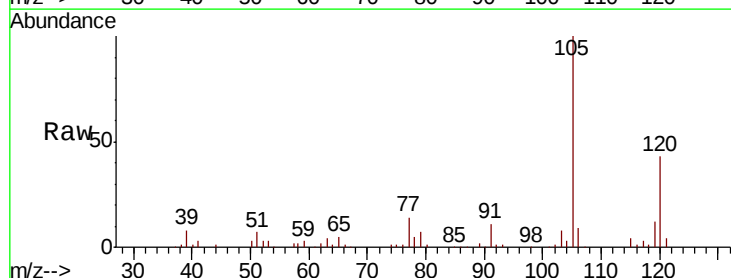
Manual Integrations
APPROVED

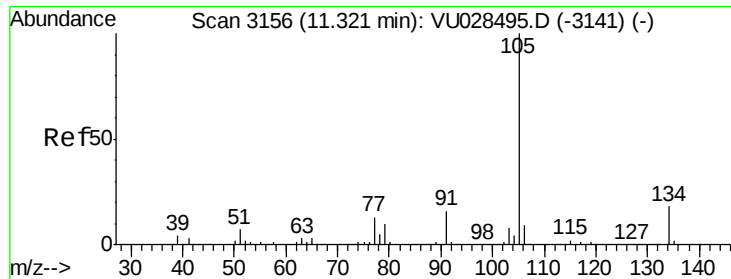
MMDadoda
12/12/2018 11:48:57 AM



#84
1,2,4-Trimethylbenzene
Concen: 17.880 ug/l
RT: 11.15 min Scan# 3102
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.7	21.8	65.4





#85

sec-Butylbenzene

Concen: 17.433 ug/l

RT: 11.32 min Scan# 3156

Delta R.T. 0.00 min

Lab File: VU028610.D

Acq: 11 Dec 2018 16:25

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBS01

Tot Ion:105 Resp: 80725

Ion Ratio Lower Upper

105 100

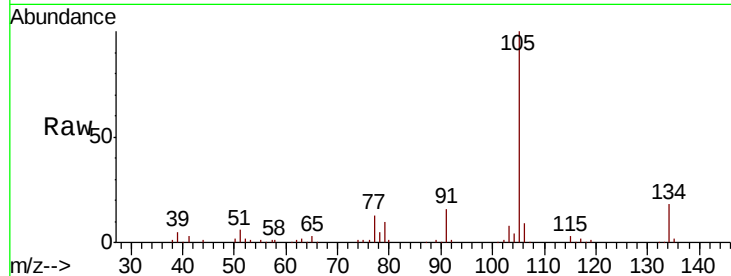
134 18.4 9.2 27.6

Manual Integrations

APPROVED

MMDadoda

12/12/2018 11:48:57 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

11.32

60000

50000

40000

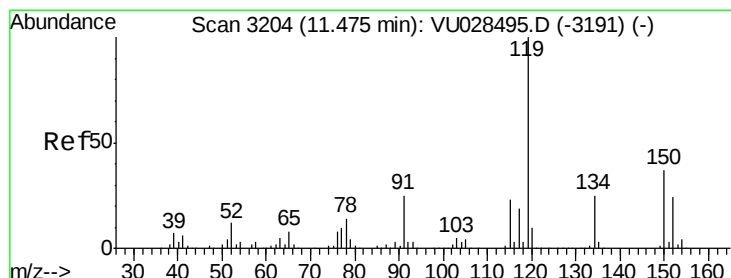
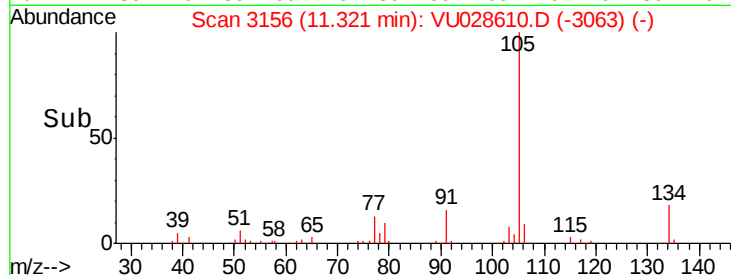
30000

20000

10000

0

Time-->



#86

p-Isopropyltoluene

Concen: 17.069 ug/l

RT: 11.47 min Scan# 3203

Delta R.T. -0.00 min

Lab File: VU028610.D

Acq: 11 Dec 2018 16:25

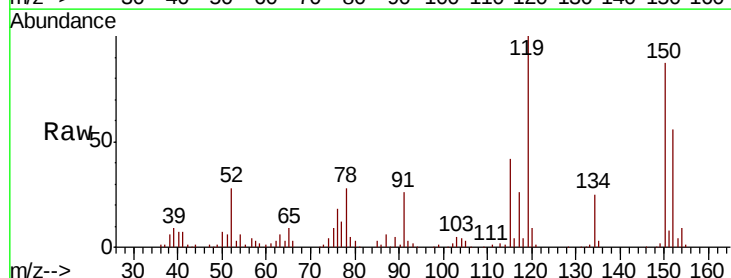
Tgt Ion:119 Resp: 67143

Ion Ratio Lower Upper

119 100

134 25.2 12.7 38.1

91 25.9 12.6 37.6



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VU

11.47

60000

50000

40000

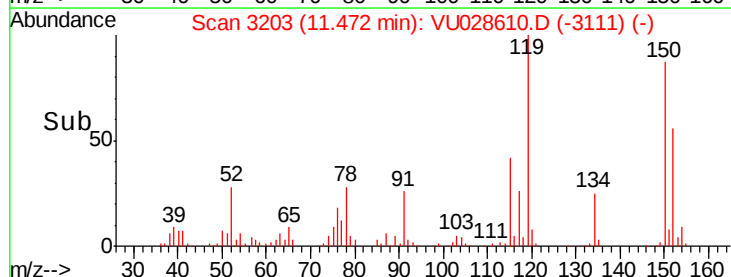
30000

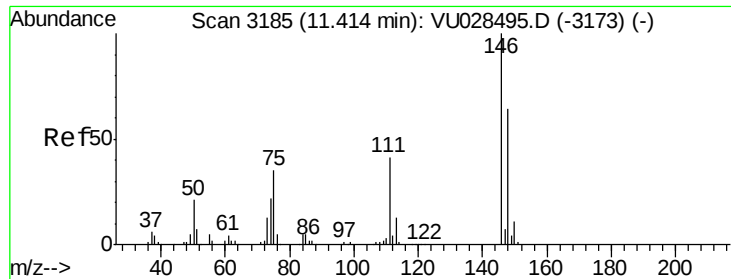
20000

10000

0

Time-->





#87

1,3-Dichlorobenzene

Concen: 17.025 ug/l

RT: 11.41 min Scan# 3185

Delta R.T. 0.00 min

Lab File: VU028610.D

Acq: 11 Dec 2018 16:25

Instrument :

MSVOA_U

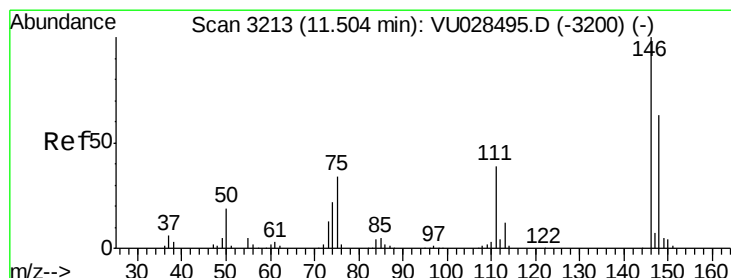
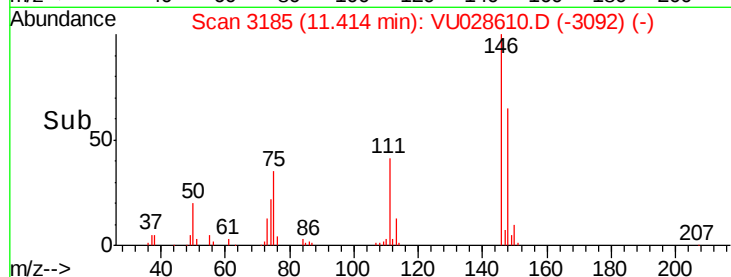
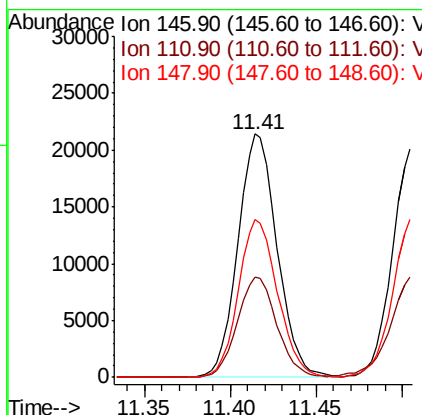
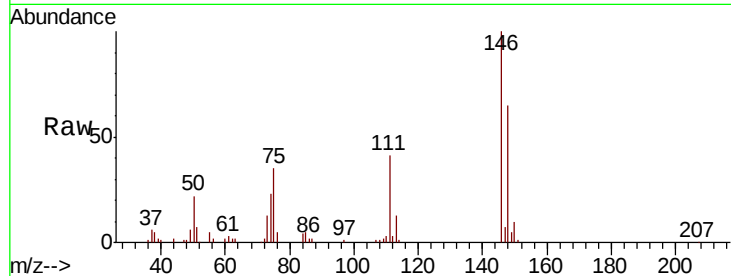
ClientSampleId :

VU1213WBS01

Tot Ion:	146	Resp:	33967
Ion Ratio	Lower	Upper	
146	100		
111	41.3	20.7	62.1
148	64.5	31.9	95.7

Manual Integrations
APPROVED

MMDadoda
12/12/2018 11:48:57 AM



#88

1,4-Dichlorobenzene

Concen: 16.124 ug/l

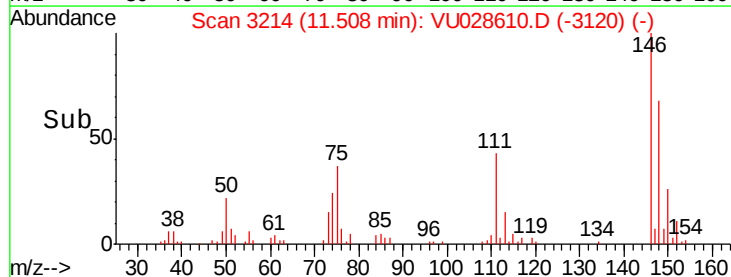
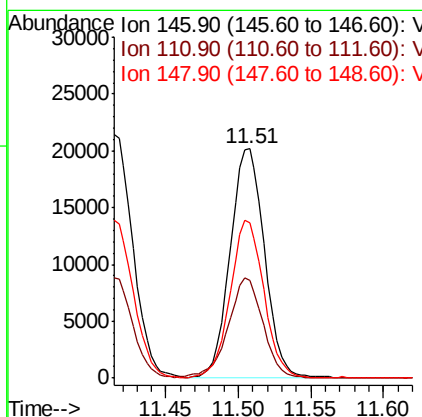
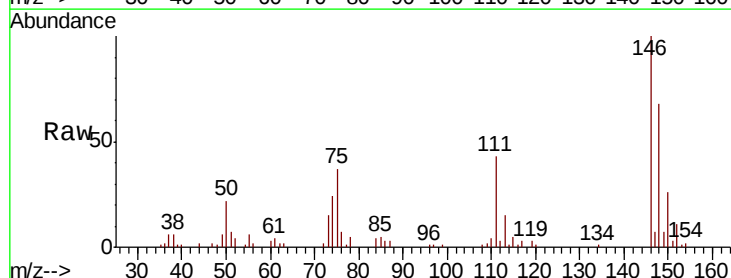
RT: 11.51 min Scan# 3214

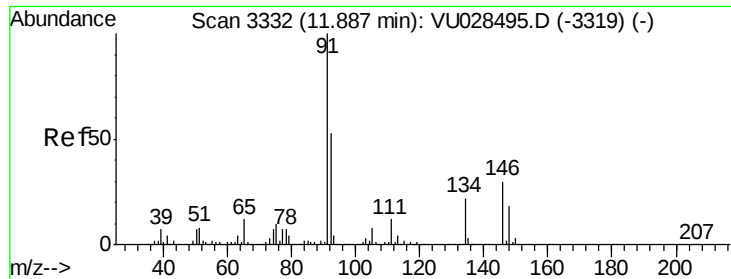
Delta R.T. 0.00 min

Lab File: VU028610.D

Acq: 11 Dec 2018 16:25

Tgt Ion:	146	Resp:	33282
Ion Ratio	Lower	Upper	
146	100		
111	44.2	20.2	60.5
148	67.4	31.6	95.0





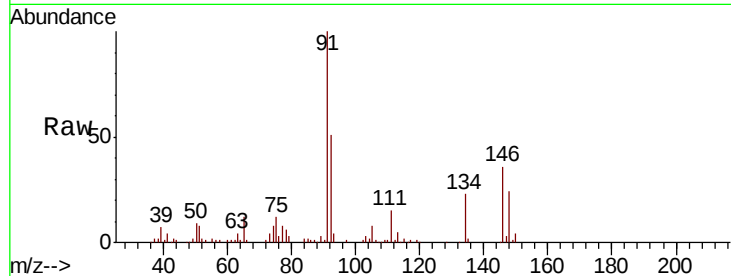
#89
n-Butylbenzene
Concen: 15.968 ug/l
RT: 11.89 min Scan# 3332
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS01

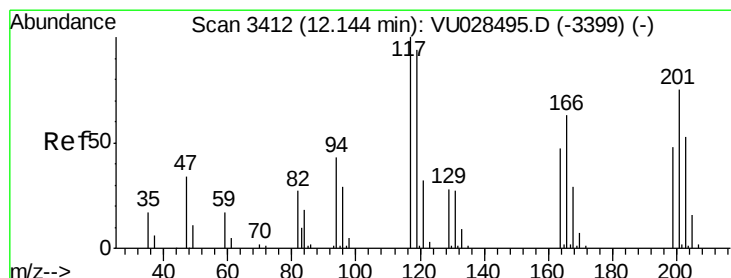
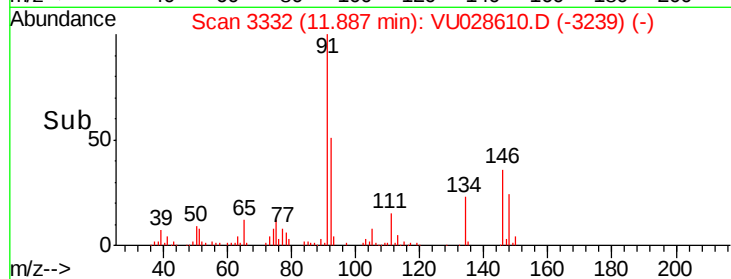
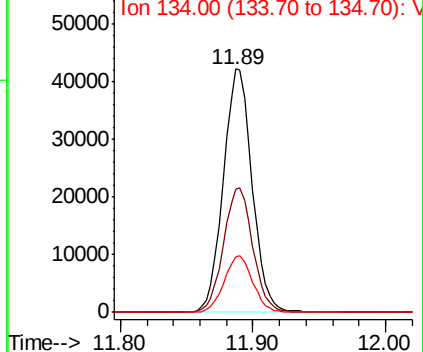
Tot Ion	Ratio	Lower	Upper
91	100		
92	52.0	26.3	78.9
134	22.9	11.3	33.8

Manual Integrations
APPROVED

MMDadoda
12/12/2018 11:48:57 AM

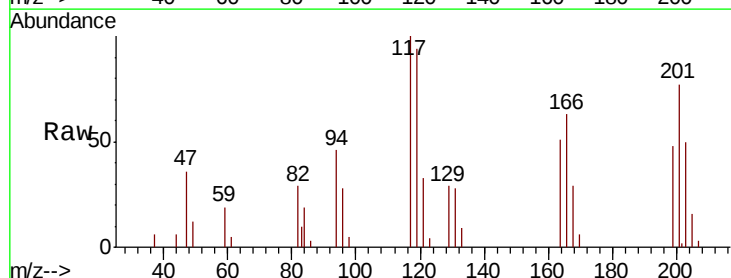


Abundance Ion 91.00 (90.70 to 91.70): VU028495.D (-3319) (-)
Ion 92.00 (91.70 to 92.70): VU028495.D (-3319) (-)
Ion 134.00 (133.70 to 134.70): VU028495.D (-3319) (-)

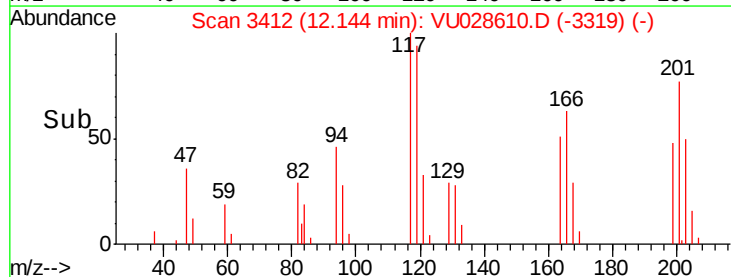
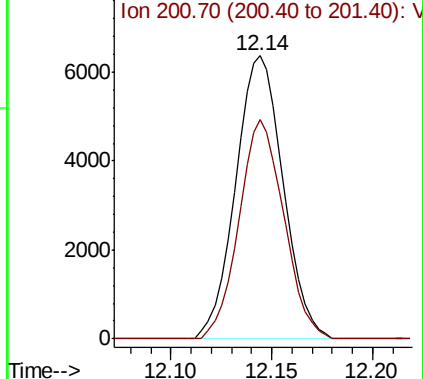


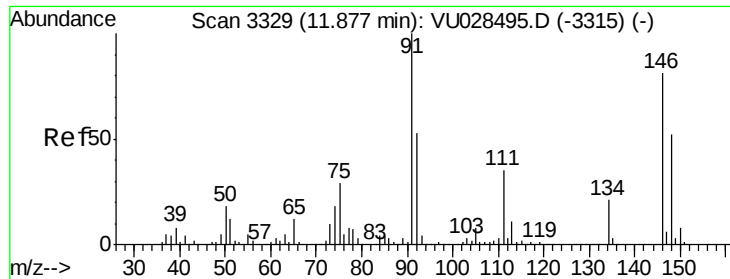
#90
Hexachloroethane
Concen: 17.660 ug/l
RT: 12.14 min Scan# 3412
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Tgt Ion	Ratio	Lower	Upper
117	100		
201	73.0	38.1	114.5



Abundance Ion 116.80 (116.50 to 117.50): VU028495.D (-3399) (-)
Ion 200.70 (200.40 to 201.40): VU028495.D (-3399) (-)





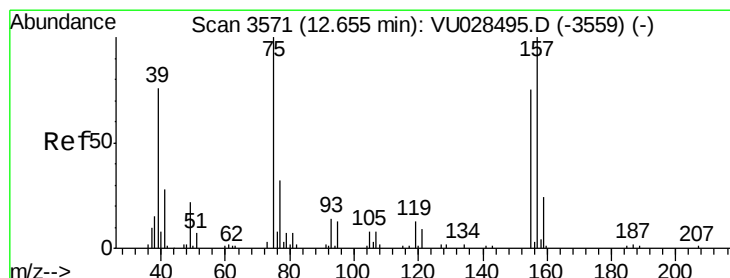
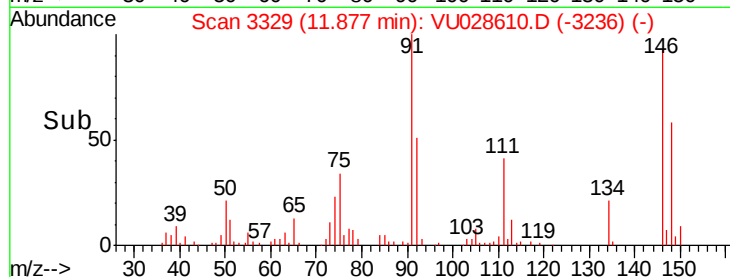
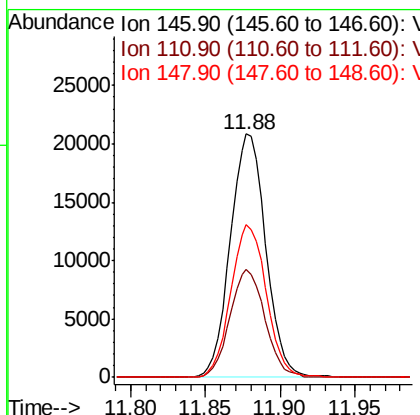
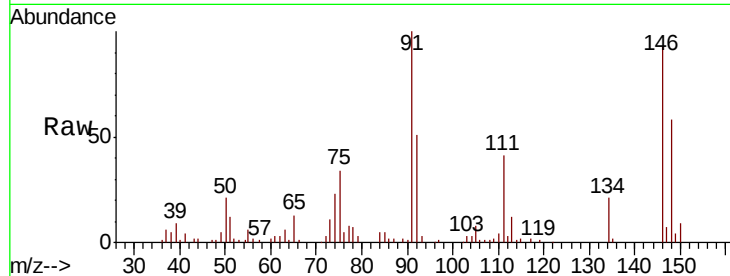
#91
 1,2-Dichlorobenzene
 Concen: 17.242 ug/l
 RT: 11.88 min Scan# 3329
 Delta R.T. 0.00 min
 Lab File: VU028610.D
 Acq: 11 Dec 2018 16:25

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1213WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.1	63.4
148	62.6	31.4	94.2

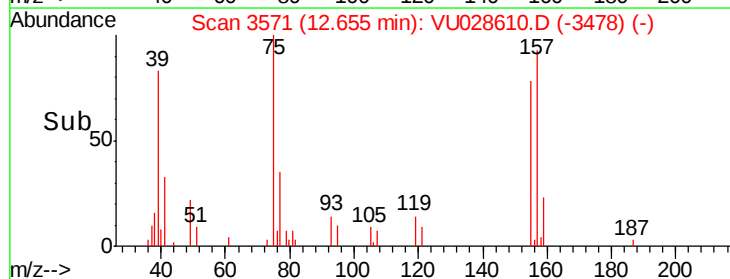
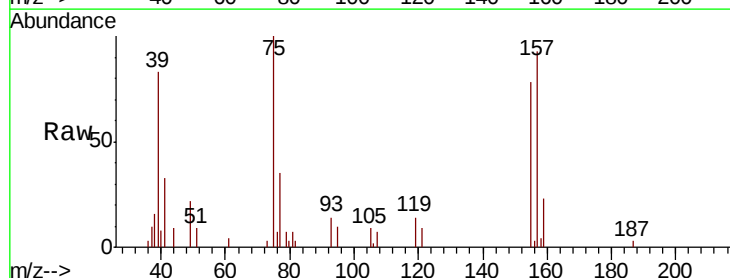
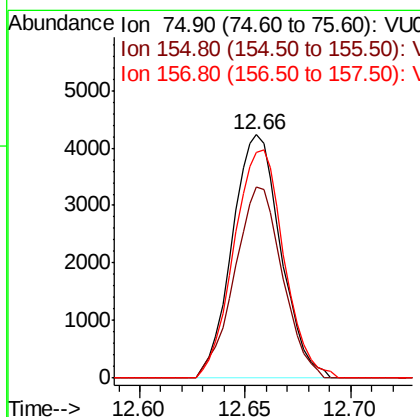
Manual Integrations
 APPROVED

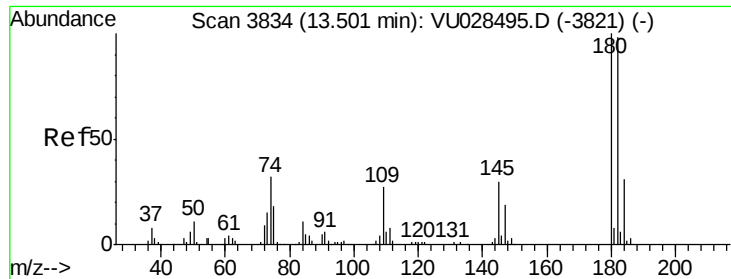
MMDadoda
 12/12/2018 11:48:57 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 17.973 ug/l
 RT: 12.66 min Scan# 3571
 Delta R.T. 0.00 min
 Lab File: VU028610.D
 Acq: 11 Dec 2018 16:25

Tgt Ion	Ratio	Lower	Upper
75	100		
155	77.5	38.1	114.5
157	96.6	48.7	146.1





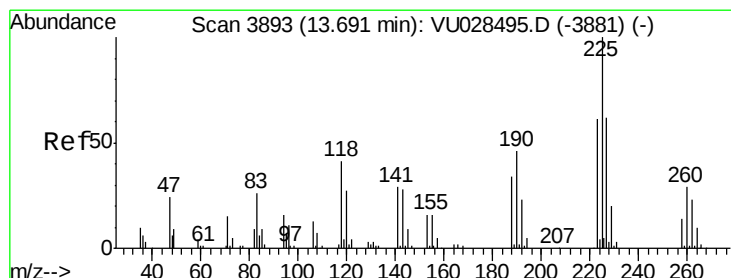
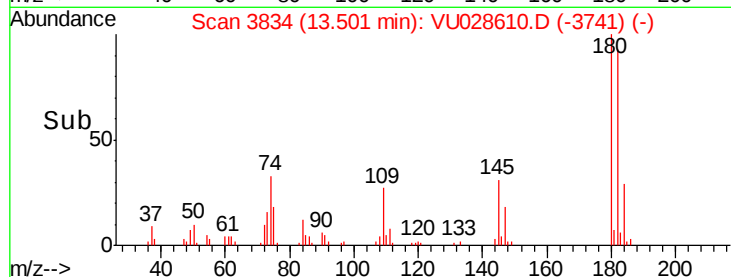
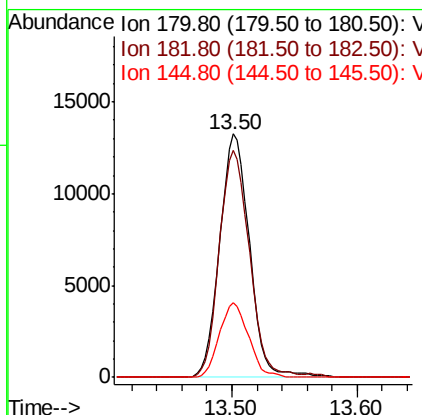
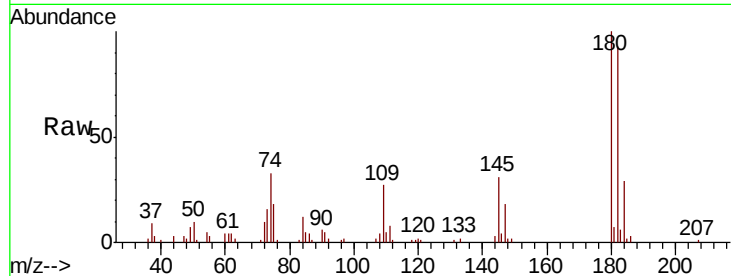
#93
 1,2,4-Trichlorobenzene
 Concen: 16.481 ug/l
 RT: 13.50 min Scan# 3834
 Delta R.T. 0.00 min
 Lab File: VU028610.D
 Acq: 11 Dec 2018 16:25

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1213WBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	21812		
182	94.1	47.9	143.8	
145	29.9	15.0	45.1	

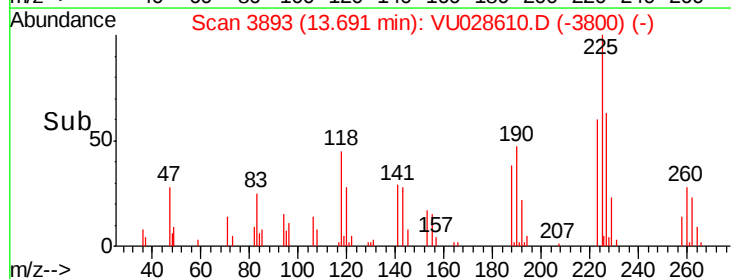
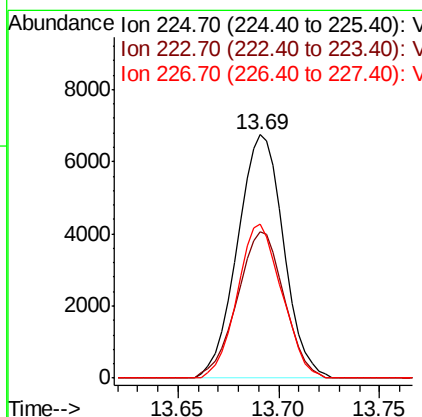
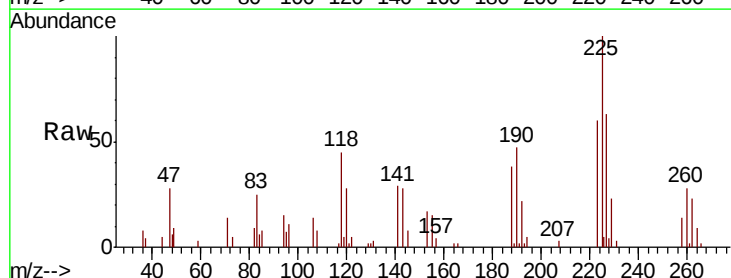
Manual Integrations
 APPROVED

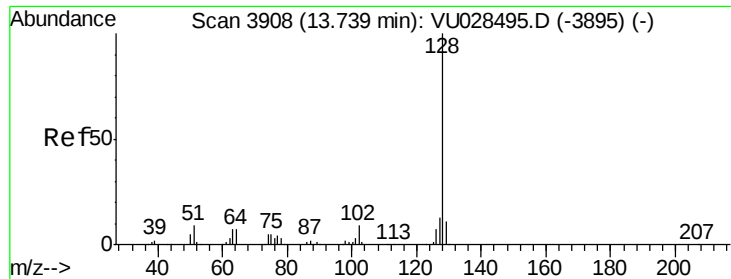
MMDadoda
 12/12/2018 11:48:57 AM



#94
 Hexachlorobutadiene
 Concen: 16.550 ug/l
 RT: 13.69 min Scan# 3893
 Delta R.T. 0.00 min
 Lab File: VU028610.D
 Acq: 11 Dec 2018 16:25

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	10819		
223	61.0	30.4	91.2	
227	61.0	30.7	92.1	





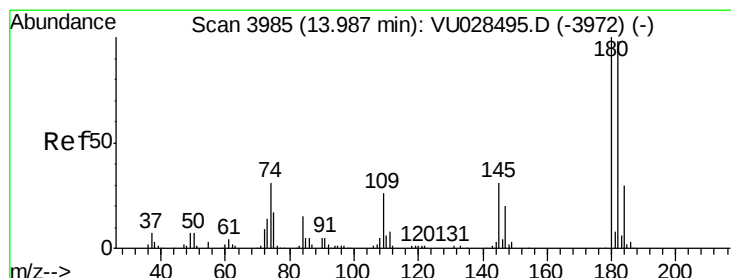
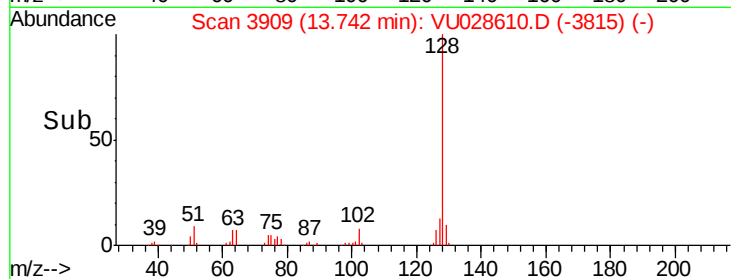
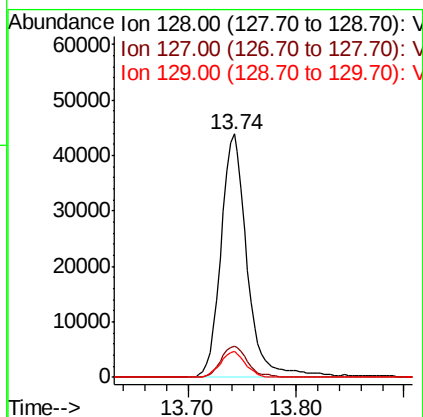
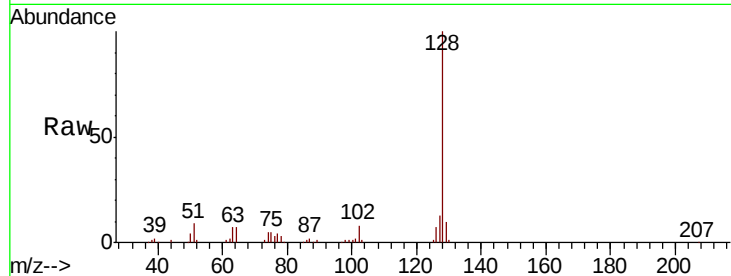
#95
Naphthalene
Concen: 15.452 ug/l
RT: 13.74 min Scan# 3909
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.4	15.6
129	10.2	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
12/12/2018 11:48:57 AM



#96
1,2,3-Trichlorobenzene
Concen: 15.931 ug/l
RT: 13.99 min Scan# 3985
Delta R.T. 0.00 min
Lab File: VU028610.D
Acq: 11 Dec 2018 16:25

Tgt Ion	Ratio	Lower	Upper
180	100		
182	99.0	48.2	144.6
145	31.5	15.8	47.3

