

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU112818\
 Data File : VU028356.D
 Acq On : 28 Nov 2018 10:47
 Operator : MD/SY
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 11/29/2018 1:22:58 PM

Quant Time: Nov 29 01:04:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U112818W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 29 00:29:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	235303	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	413122	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	393241	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	199200	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	385955	98.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	196.28%	
35) Dibromofluoromethane	4.88	113	276488	100.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	201.30%	
50) Toluene-d8	7.57	98	1098967	100.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	200.06%	
62) 4-Bromofluorobenzene	10.30	95	424564	107.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	214.44%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	316945	100.410	ug/l	100
3) Chloromethane	1.32	50	607054	99.218	ug/l	100
4) Vinyl Chloride	1.40	62	434946	101.604	ug/l	99
5) Bromomethane	1.60	94	187778	113.415	ug/l	100
6) Chloroethane	1.68	64	238321	96.750	ug/l	96
7) Trichlorofluoromethane	1.87	101	440722	99.114	ug/l	100
8) Diethyl Ether	2.10	74	199476	96.502	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.28	101	251033	96.913	ug/l	98
10) Methyl Iodide	2.40	142	249252	102.041	ug/l	100
11) Tert butyl alcohol	2.84	59	450546	504.309	ug/l	98
12) 1,1-Dichloroethene	2.28	96	253752	100.945	ug/l	95
13) Acrolein	2.19	56	389078	489.873	ug/l	98
14) Allyl chloride	2.59	41	705387	107.403	ug/l	90
15) Acrylonitrile	2.93	53	1202561	508.869	ug/l	99
16) Acetone	2.32	43	1103080	458.544	ug/l	100
17) Carbon Disulfide	2.47	76	929939	96.380	ug/l	100
18) Methyl Acetate	2.61	43	673912	100.618	ug/l	100
19) Methyl tert-butyl Ether	3.00	73	1022250	99.192	ug/l	99
20) Methylene Chloride	2.70	84	335103	90.040	ug/l	97
21) trans-1,2-Dichloroethene	2.98	96	288201	98.858	ug/l	98
22) Diisopropyl ether	3.57	45	1303591	100.874	ug/l	99
23) Vinyl Acetate	3.52	43	5565332	517.807	ug/l	100
24) 1,1-Dichloroethane	3.44	63	643130	100.881	ug/l	99
25) 2-Butanone	4.26	43	1723719	499.974	ug/l	100
26) 2,2-Dichloropropane	4.22	77	506829	100.104	ug/l	100
27) cis-1,2-Dichloroethene	4.22	96	336582	97.623	ug/l	100
28) Bromochloromethane	4.55	49	308724	96.849	ug/l	98
29) Tetrahydrofuran	4.63	42	1155755	516.326	ug/l	99
30) Chloroform	4.67	83	582271	98.952	ug/l	99
31) Cyclohexane	4.99	56	640514	84.644	ug/l	98
32) 1,1,1-Trichloroethane	4.91	97	473116	100.199	ug/l	99
36) 1,1-Dichloropropene	5.13	75	463188	102.459	ug/l	98
37) Ethyl Acetate	4.38	43	640618	103.984	ug/l	99
38) Carbon Tetrachloride	5.13	117	376064	101.301	ug/l	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U112818\
 Data File : VU028356.D
 Acq On : 28 Nov 2018 10:47
 Operator : MD/SY
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 11/29/2018 1:22:58 PM

Quant Time: Nov 29 01:04:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U112818W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 29 00:29:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.41	83	556591	104.426	ug/l	99
40) Benzene	5.39	78	1378825	102.979	ug/l	99
41) Methacrylonitrile	4.54	41	363172	106.150	ug/l	98
42) 1,2-Dichloroethane	5.40	62	491955	101.992	ug/l	100
43) Isopropyl Acetate	5.55	43	1029870	105.491	ug/l	99
44) Trichloroethene	6.18	130	297302	103.589	ug/l	99
45) 1,2-Dichloropropane	6.43	63	401919	102.505	ug/l	99
46) Dibromomethane	6.56	93	232203	103.100	ug/l	98
47) Bromodichloromethane	6.76	83	455382	101.654	ug/l	99
48) Methyl methacrylate	6.62	41	527224	103.674	ug/l	99
49) 1,4-Dioxane	6.61	88	174538	2148.429	ug/l	99
51) 4-Methyl-2-Pentanone	7.46	43	3267696	524.069	ug/l	99
52) Toluene	7.64	92	813317	105.485	ug/l	99
53) t-1,3-Dichloropropene	7.88	75	556496	103.887	ug/l	97
54) cis-1,3-Dichloropropene	7.27	75	590002	102.811	ug/l	100
55) 1,1,2-Trichloroethane	8.06	97	325882	101.557	ug/l	98
56) Ethyl methacrylate	8.02	69	600888	110.072	ug/l	99
57) 1,3-Dichloropropane	8.24	76	607917	103.306	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.13	63	1628591	555.666	ug/l	99
59) 2-Hexanone	8.36	43	2598742	538.061	ug/l	100
60) Dibromochloromethane	8.48	129	319932	104.832	ug/l	99
61) 1,2-Dibromoethane	8.58	107	347780	105.820	ug/l	97
64) Tetrachloroethene	8.22	164	252214	97.503	ug/l	99
65) Chlorobenzene	9.12	112	838605	102.703	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.21	131	283893	101.431	ug/l	100
67) Ethyl Benzene	9.25	91	1595806	103.766	ug/l	99
68) m/p-Xylenes	9.37	106	1164473	210.370	ug/l	100
69) o-Xylene	9.78	106	568103	103.241	ug/l	100
70) Styrene	9.79	104	955801	107.701	ug/l	99
71) Bromoform	9.96	173	250300	106.396	ug/l #	99
73) Isopropylbenzene	10.17	105	1527343	98.584	ug/l	100
74) N-amyl acetate	10.01	43	982419	101.209	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.46	83	619946	97.307	ug/l	99
76) 1,2,3-Trichloropropane	10.49	75	508185m	93.177	ug/l	
77) Bromobenzene	10.45	156	359347	98.436	ug/l	99
78) n-propylbenzene	10.59	91	1923759	100.655	ug/l	100
79) 2-Chlorotoluene	10.66	91	1101472	97.762	ug/l	99
80) 1,3,5-Trimethylbenzene	10.77	105	1306916	100.103	ug/l	100
81) trans-1,4-Dichloro-2-buten	10.51	75	214976m	81.028	ug/l	
82) 4-Chlorotoluene	10.77	91	1314962	101.298	ug/l	99
83) tert-Butylbenzene	11.10	119	1255731	103.178	ug/l	99
84) 1,2,4-Trimethylbenzene	11.15	105	1349951	102.084	ug/l	99
85) sec-Butylbenzene	11.32	105	1615859	102.220	ug/l	99
86) p-Isopropyltoluene	11.48	119	1356520	104.365	ug/l	99
87) 1,3-Dichlorobenzene	11.41	146	672737	101.038	ug/l	99
88) 1,4-Dichlorobenzene	11.51	146	668208	99.719	ug/l	98
89) n-Butylbenzene	11.89	91	1404023	109.449	ug/l	100
90) Hexachloroethane	12.14	117	211820	104.383	ug/l	99
91) 1,2-Dichlorobenzene	11.88	146	676662	101.860	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.66	75	142707	100.701	ug/l	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU112818\
Data File : VU028356.D
Acq On : 28 Nov 2018 10:47
Operator : MD/SY
Sample : VSTDICC100
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

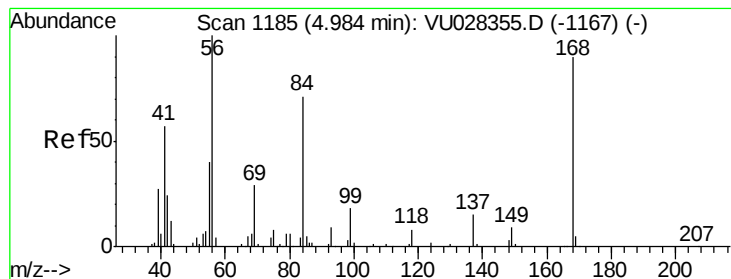
Manual Integrations
APPROVED

MMDadoda
11/29/2018 1:22:58 PM

Quant Time: Nov 29 01:04:08 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U112818W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 29 00:29:32 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	459945	105.776	ug/l	98
94) Hexachlorobutadiene	13.69	225	208981	101.781	ug/l	98
95) Naphthalene	13.74	128	1636323	110.656	ug/l	100
96) 1,2,3-Trichlorobenzene	13.99	180	461544	104.950	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. -0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC100

Tot Ion:168 Resp: 235303

Ion Ratio Lower Upper

168 100

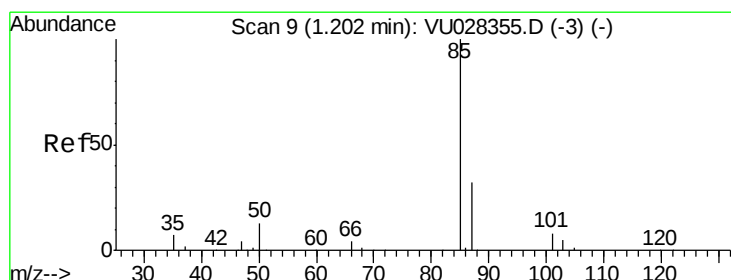
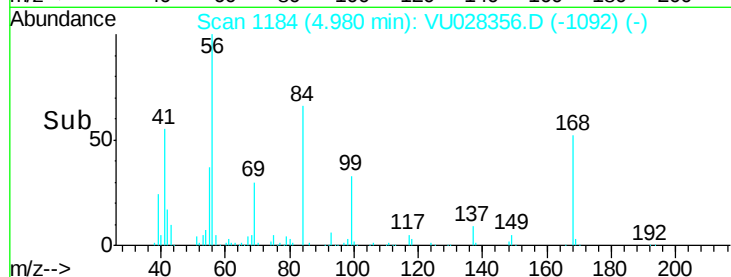
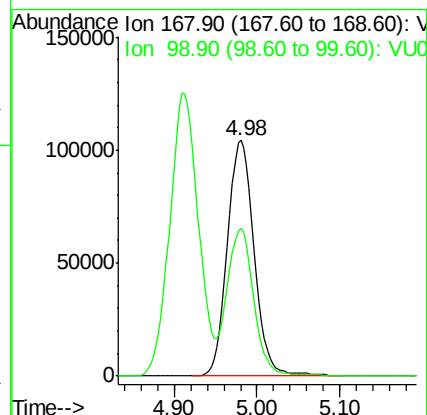
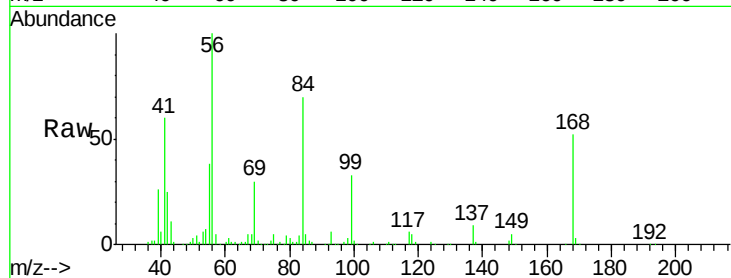
99 62.5 49.6 74.4

Manual Integrations

APPROVED

MMDadoda

11/29/2018 1:22:58 PM



#2

Dichlorodifluoromethane

Concen: 100.410 ug/l

RT: 1.20 min Scan# 9

Delta R.T. 0.00 min

Lab File: VU028356.D

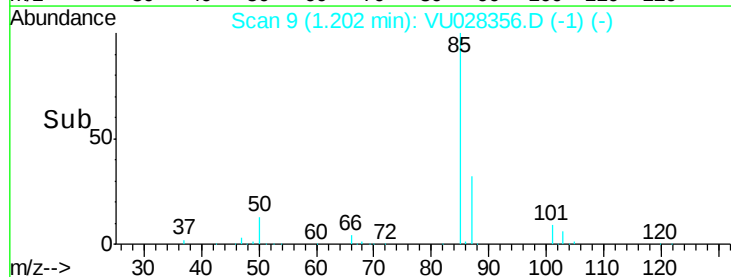
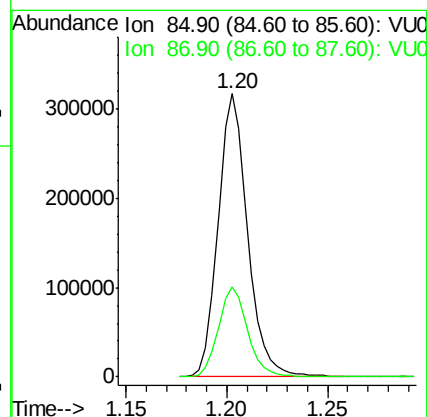
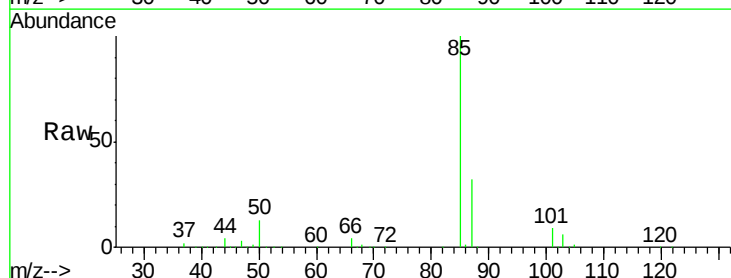
Acq: 28 Nov 2018 10:47

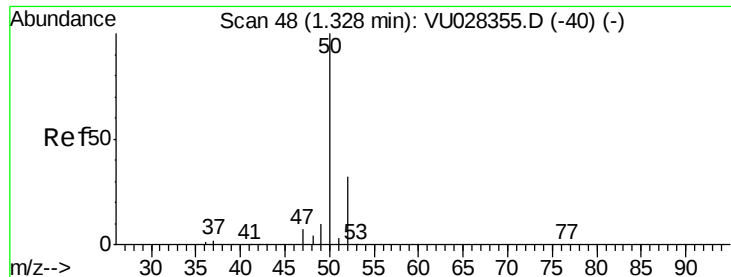
Tgt Ion: 85 Resp: 316945

Ion Ratio Lower Upper

85 100

87 31.7 15.9 47.7





#3

Chloromethane

Concen: 99.218 ug/l

RT: 1.32 min Scan# 47

Delta R.T. -0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC100

Tot Ion: 50 Resp: 607054

Ion Ratio Lower Upper

50 100

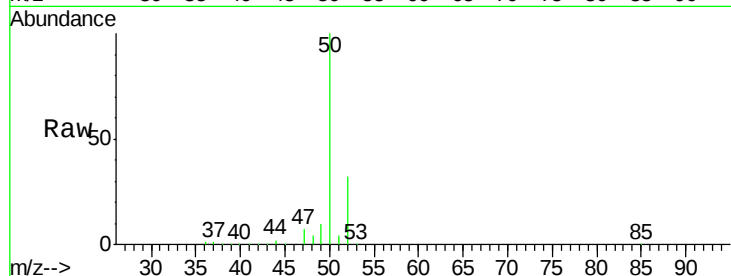
52 31.6 25.4 38.2

Manual Integrations

APPROVED

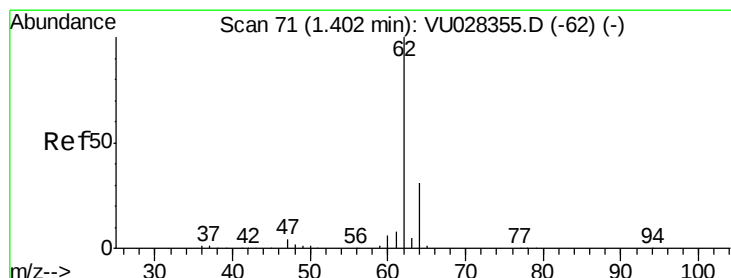
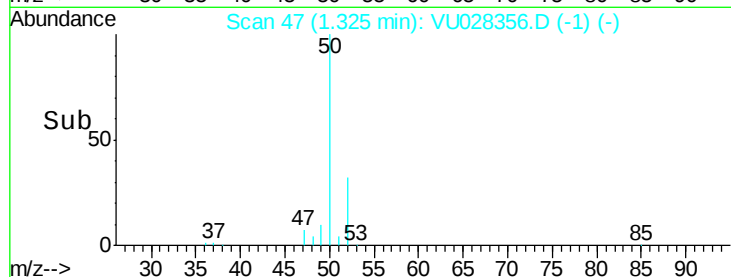
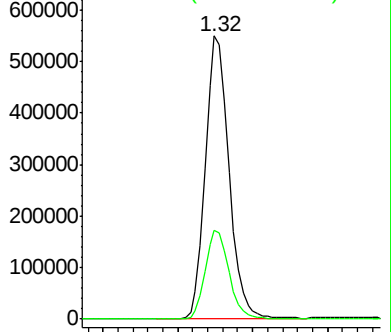
MMDadoda

11/29/2018 1:22:58 PM



Abundance Ion 49.90 (49.60 to 50.60): VU0

Ion 51.90 (51.60 to 52.60): VU0



#4

Vinyl Chloride

Concen: 101.604 ug/l

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU028356.D

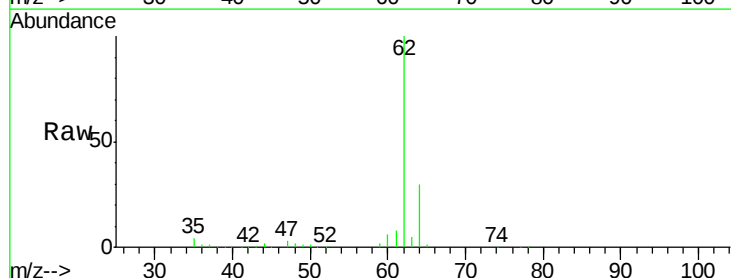
Acq: 28 Nov 2018 10:47

Tgt Ion: 62 Resp: 434946

Ion Ratio Lower Upper

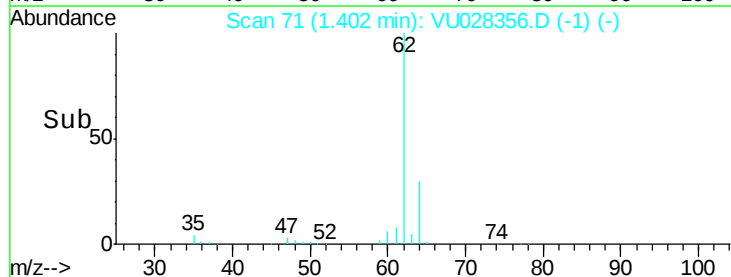
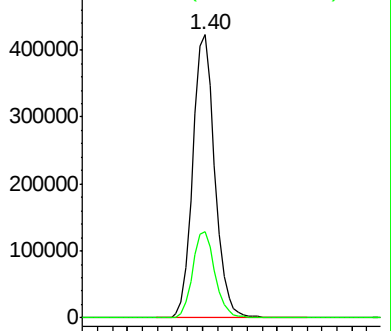
62 100

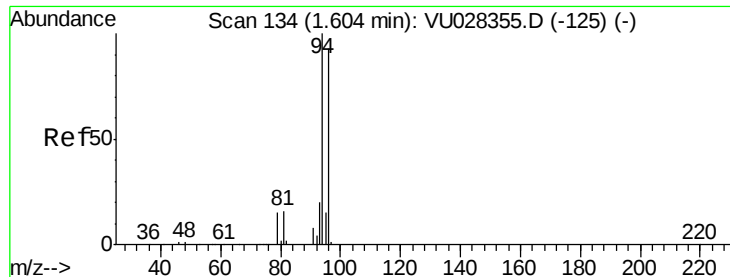
64 30.4 25.0 37.4



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0





#5

Bromomethane

Concen: 113.415 ug/l

RT: 1.60 min Scan# 134

Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC100

Tot Ion: 94 Resp: 187778

Ion Ratio Lower Upper

94 100

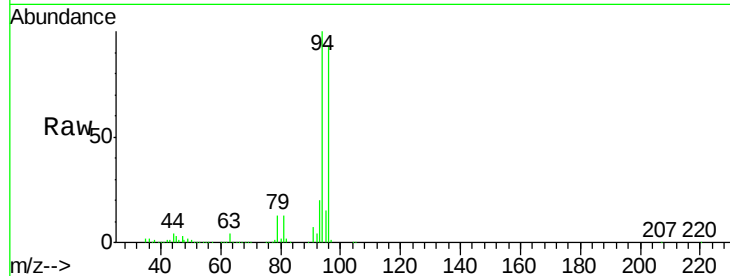
96 93.5 74.6 112.0

Manual Integrations

APPROVED

MMDadoda

11/29/2018 1:22:58 PM



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.60

200000

150000

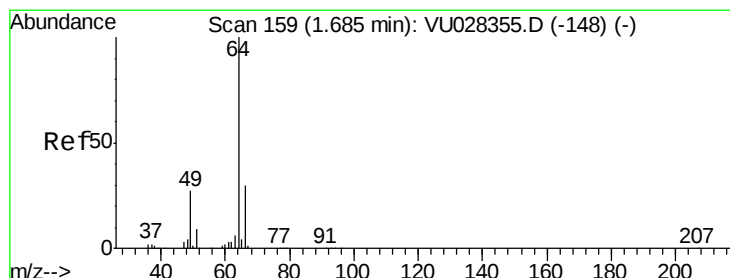
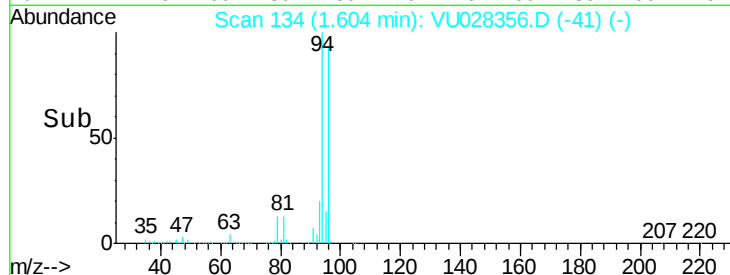
100000

50000

0

Time-->

1.50 1.55 1.60 1.65 1.70



#6

Chloroethane

Concen: 96.750 ug/l

RT: 1.68 min Scan# 156

Delta R.T. -0.01 min

Lab File: VU028356.D

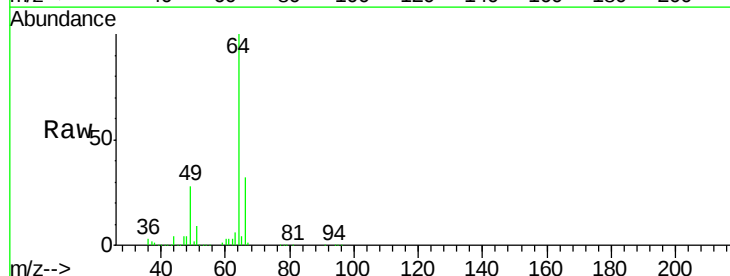
Acq: 28 Nov 2018 10:47

Tgt Ion: 64 Resp: 238321

Ion Ratio Lower Upper

64 100

66 31.7 23.6 35.4



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

1.68

200000

150000

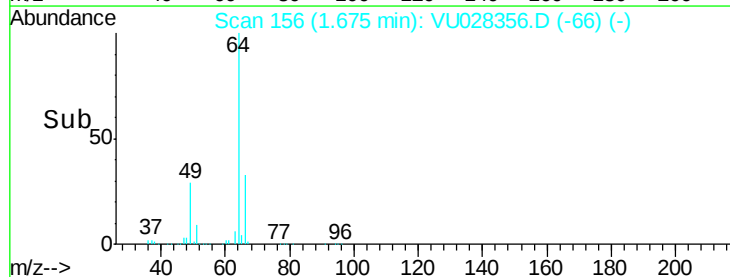
100000

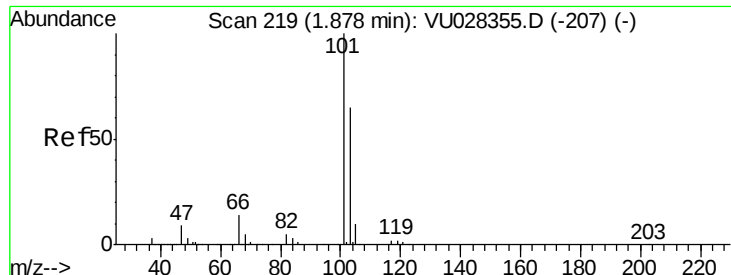
50000

0

Time-->

1.60 1.65 1.70





#7

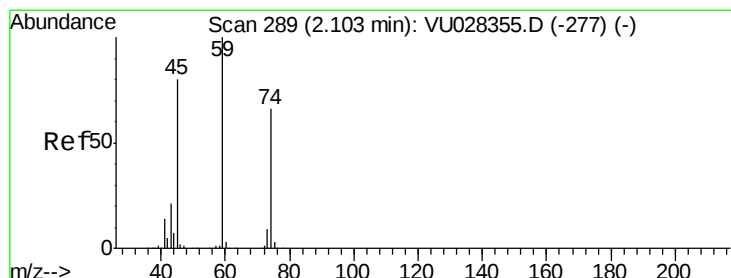
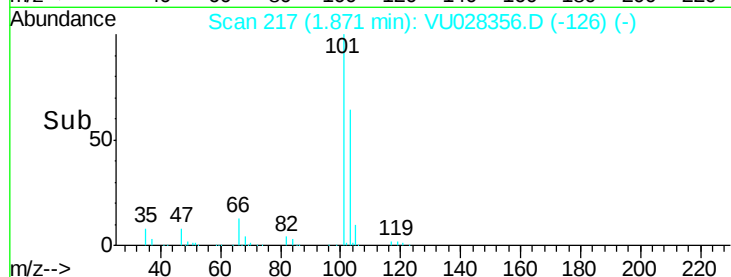
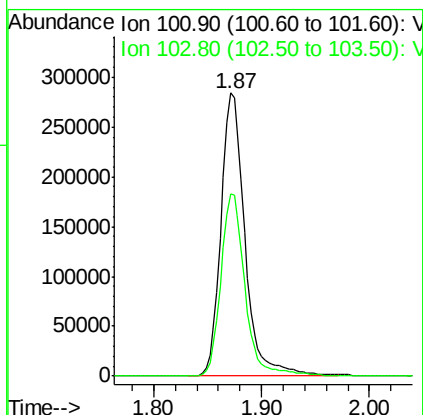
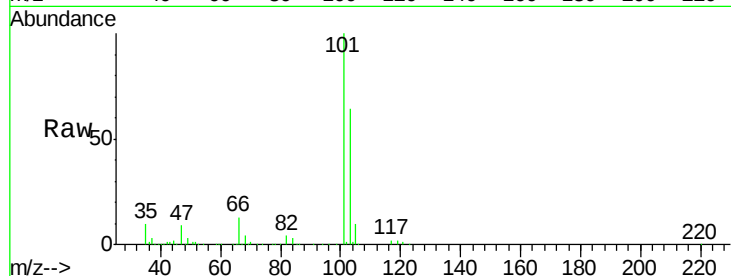
Trichlorofluoromethane
 Concen: 99.114 ug/l
 RT: 1.87 min Scan# 217
 Delta R.T. -0.01 min
 Lab File: VU028356.D
 Acq: 28 Nov 2018 10:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.6	77.4

Manual Integrations
 APPROVED

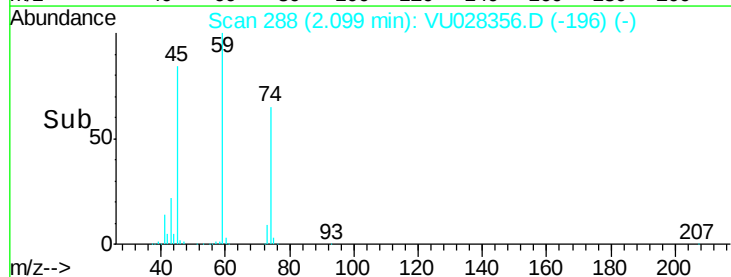
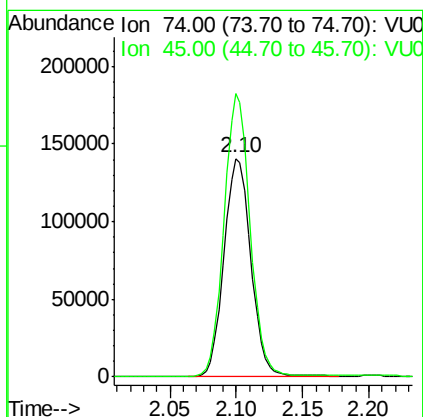
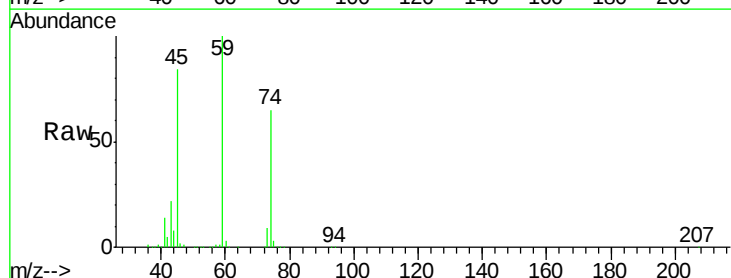
MMDadoda
 11/29/2018 1:22:58 PM

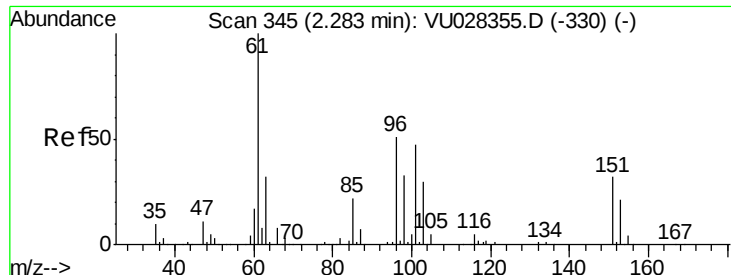


#8

Diethyl Ether
 Concen: 96.502 ug/l
 RT: 2.10 min Scan# 288
 Delta R.T. -0.00 min
 Lab File: VU028356.D
 Acq: 28 Nov 2018 10:47

Tgt Ion	Ratio	Lower	Upper
74	100		
45	125.0	63.0	189.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 96.913 ug/l

RT: 2.28 min Scan# 343

Delta R.T. -0.01 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Instrument :

MSVOA_U

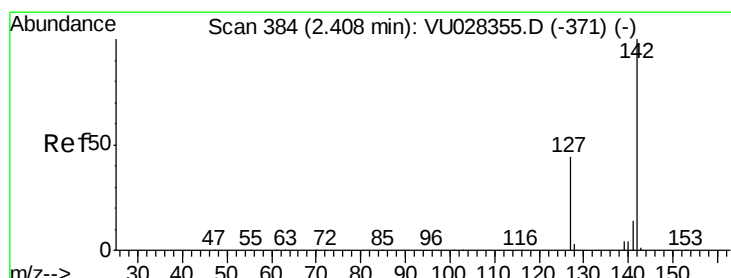
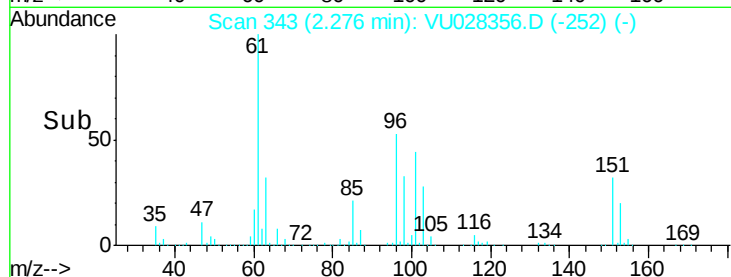
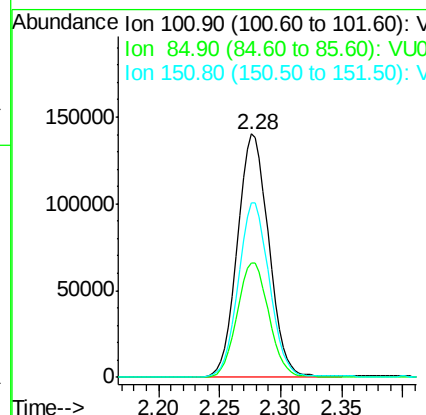
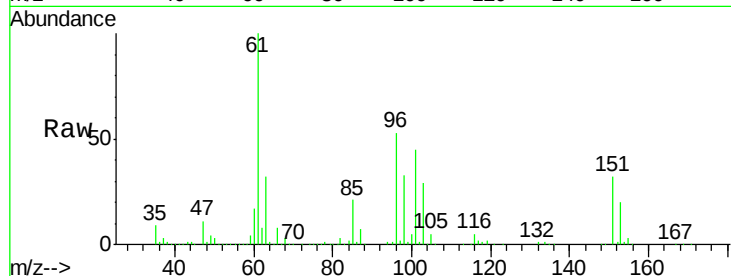
ClientSampleId :

VSTDIC100

Tot Ion:	101	Resp:	251033
Ion Ratio	Lower	Upper	
101	100		
85	47.4	37.2	55.8
151	71.1	55.4	83.0

Manual Integrations
APPROVED

MMDadoda
11/29/2018 1:22:58 PM



#10

Methyl Iodide

Concen: 102.041 ug/l

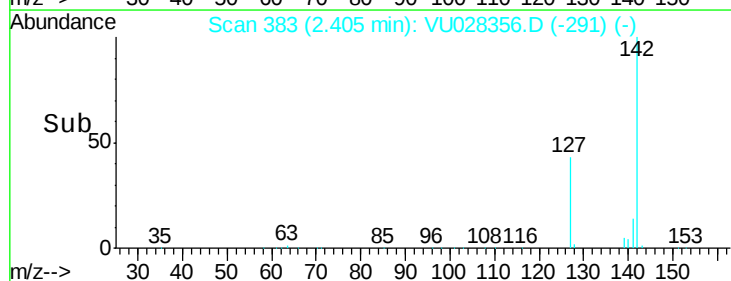
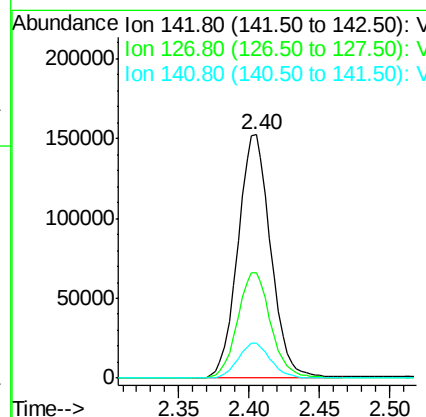
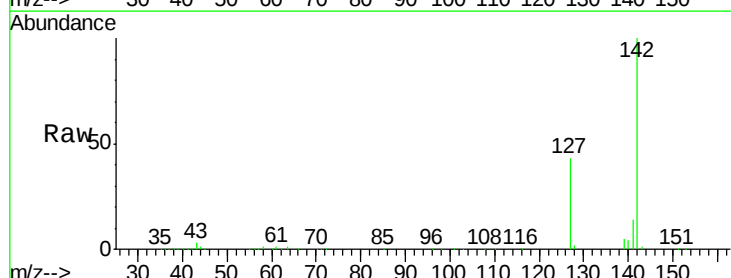
RT: 2.40 min Scan# 383

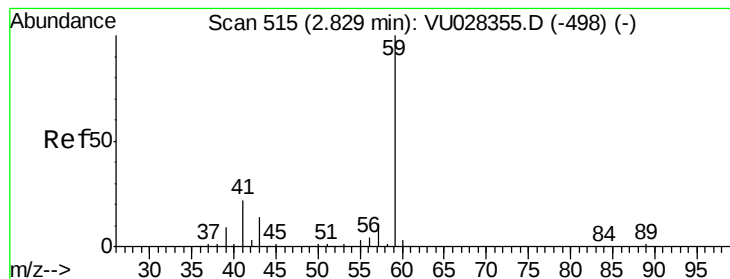
Delta R.T. -0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Tgt Ion:	142	Resp:	249252
Ion Ratio	Lower	Upper	
142	100		
127	43.8	35.0	52.6
141	14.3	11.2	16.8





#11

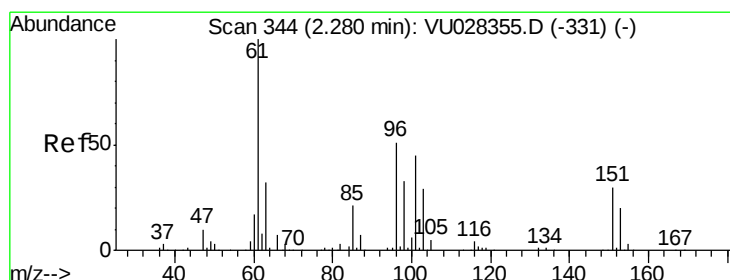
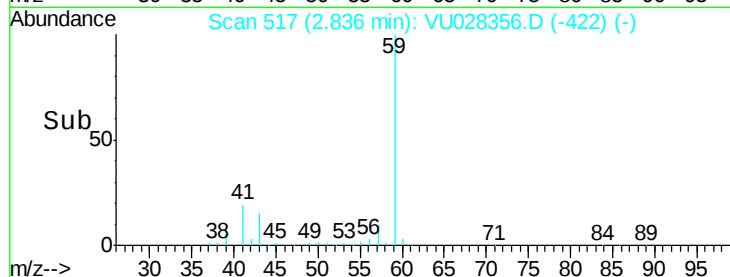
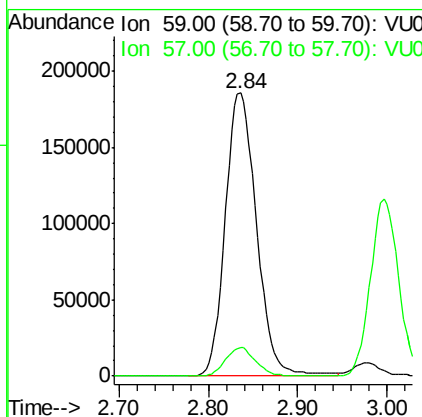
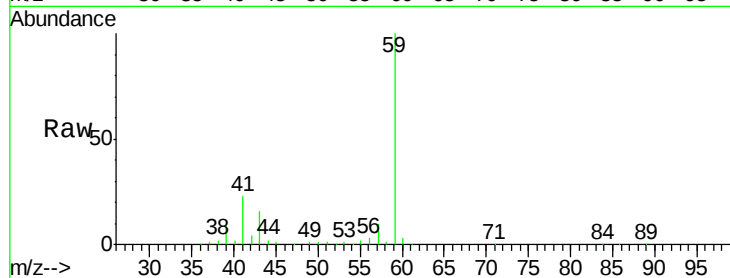
Tert butyl alcohol
Concen: 504.309 ug/l
RT: 2.84 min Scan# 517
Delta R.T. 0.01 min
Lab File: VU028356.D
Acq: 28 Nov 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
59	100	450546		
57	9.8		8.3	12.5

Manual Integrations
APPROVED

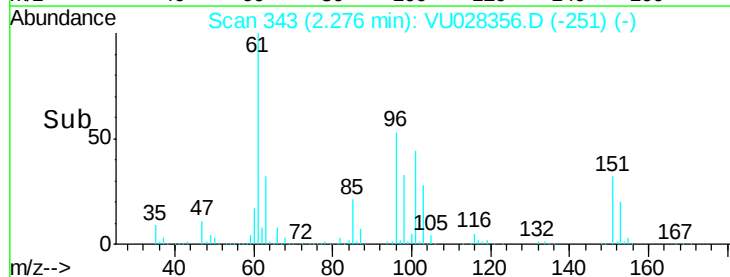
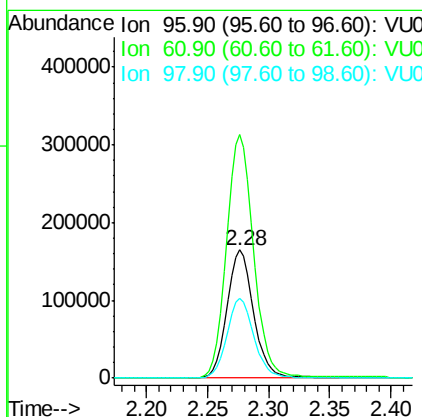
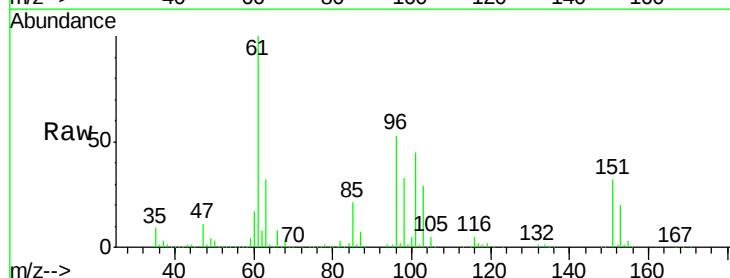
MMDadoda
11/29/2018 1:22:58 PM

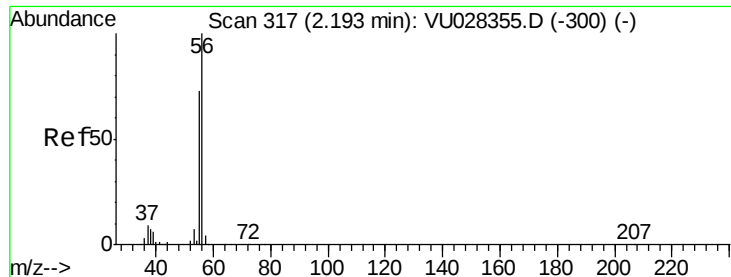


#12

1,1-Dichloroethene
Concen: 100.945 ug/l
RT: 2.28 min Scan# 343
Delta R.T. -0.00 min
Lab File: VU028356.D
Acq: 28 Nov 2018 10:47

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	253752		
61	189.7		158.1	237.1
98	61.9		51.4	77.2





#13

Acrolein

Concen: 489.873 ug/l

RT: 2.19 min Scan# 317

Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC100

Tot Ion: 56 Resp: 389078

Ion Ratio Lower Upper

56 100

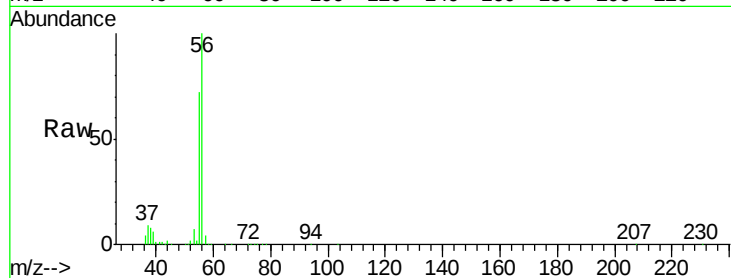
55 72.3 56.6 85.0

Manual Integrations

APPROVED

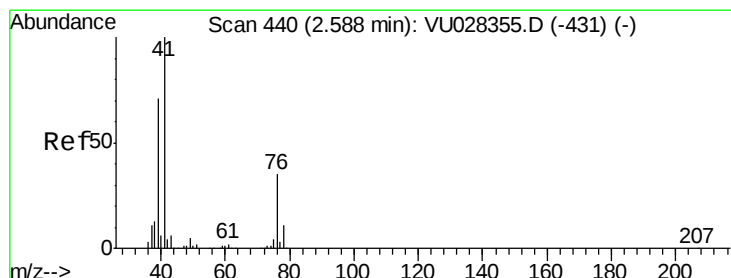
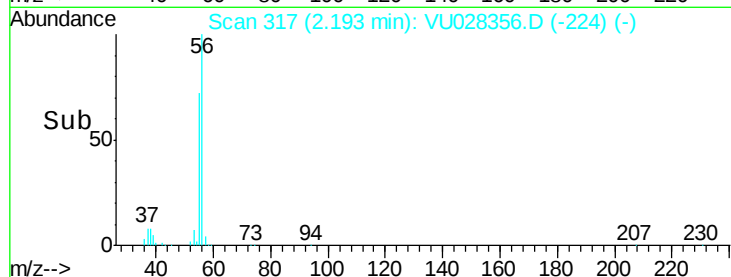
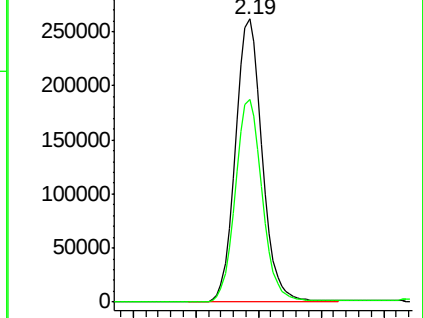
MMDadoda

11/29/2018 1:22:58 PM



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



#14

Allyl chloride

Concen: 107.403 ug/l

RT: 2.59 min Scan# 440

Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

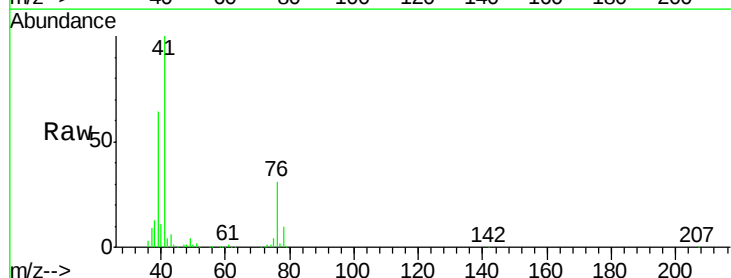
Tgt Ion: 41 Resp: 705387

Ion Ratio Lower Upper

41 100

39 56.2 51.6 77.4

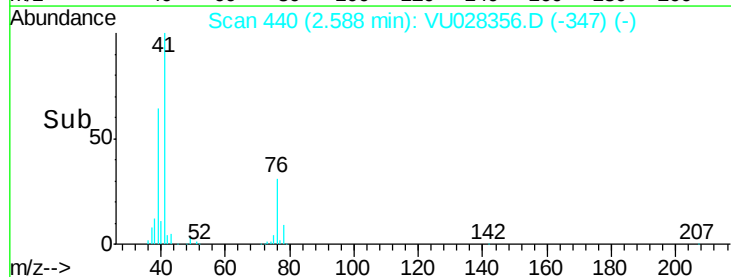
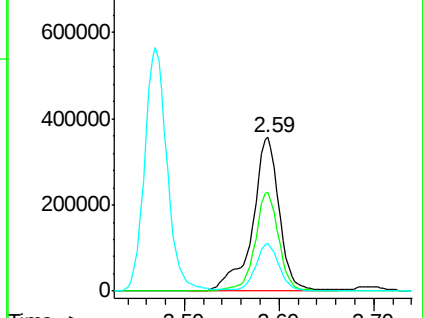
76 26.3 24.4 36.6

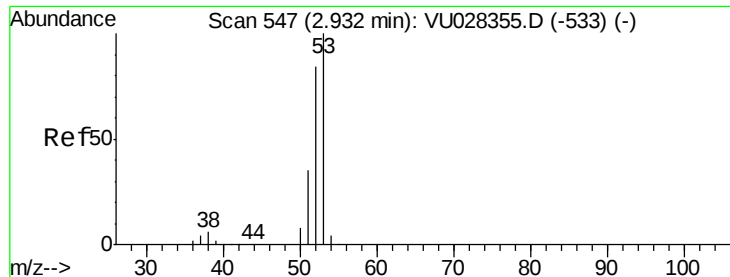


Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 75.90 (75.60 to 76.60): VU0





#15

Acrylonitrile

Concen: 508.869 ug/l

RT: 2.93 min Scan# 547

Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC100

Tot Ion: 53 Resp: 1202561

Ion Ratio Lower Upper

53 100

52 82.6 65.7 98.5

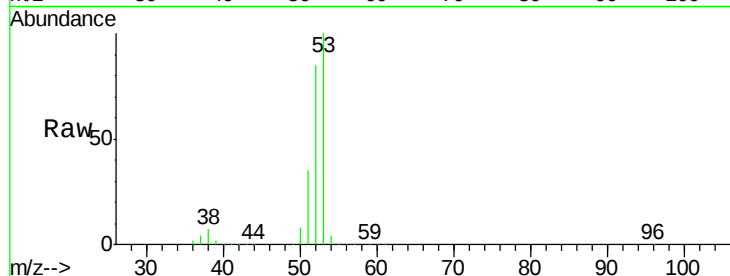
51 35.3 27.8 41.6

Manual Integrations

APPROVED

MMDadoda

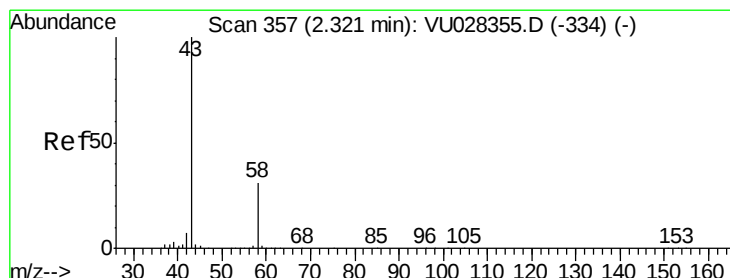
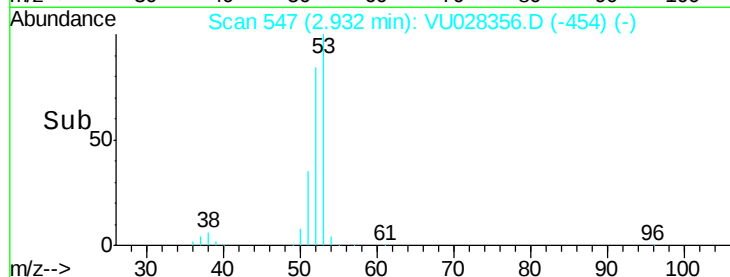
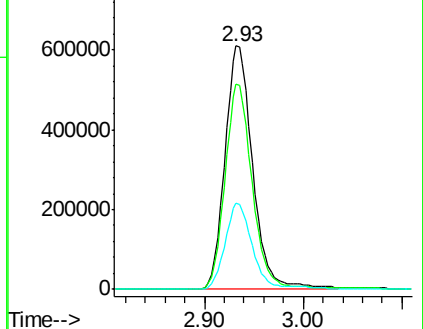
11/29/2018 1:22:58 PM



Abundance Ion 53.00 (52.70 to 53.70): VU028355.D (-533) (-)

Ion 52.00 (51.70 to 52.70): VU028355.D (-533) (-)

Ion 51.00 (50.70 to 51.70): VU028355.D (-533) (-)



#16

Acetone

Concen: 458.544 ug/l

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

Lab File: VU028356.D

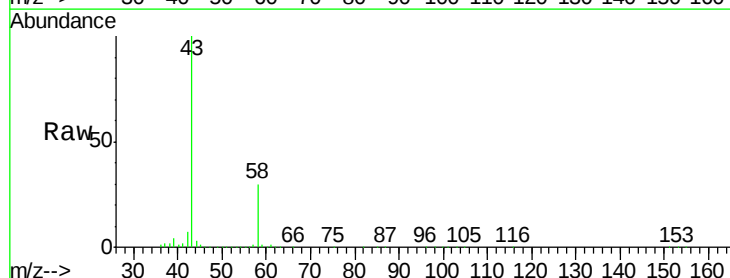
Acq: 28 Nov 2018 10:47

Tgt Ion: 43 Resp: 1103080

Ion Ratio Lower Upper

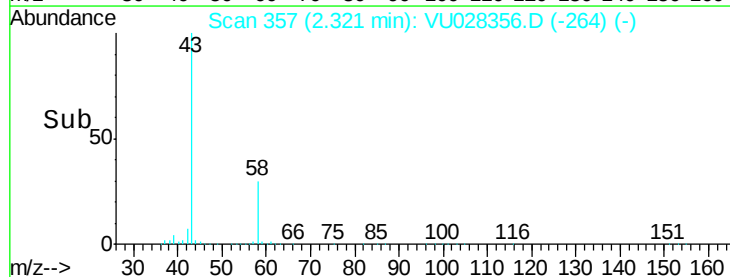
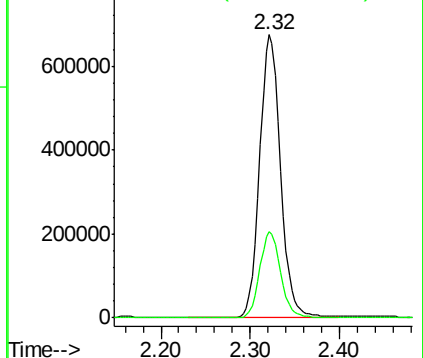
43 100

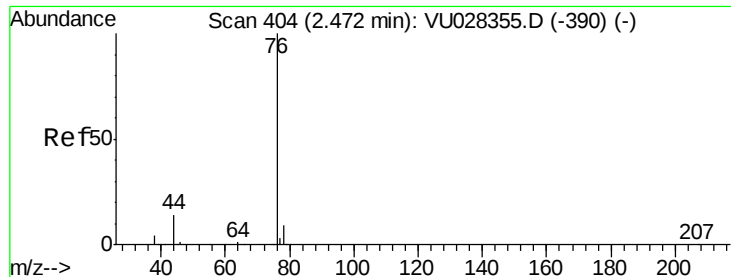
58 30.4 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU028355.D (-334) (-)

Ion 58.00 (57.70 to 58.70): VU028355.D (-334) (-)





#17

Carbon Disulfide

Concen: 96.380 ug/l

RT: 2.47 min Scan# 403

Delta R.T. -0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC100

Tot Ion: 76 Resp: 929939

Ion Ratio Lower Upper

76 100

78 9.2

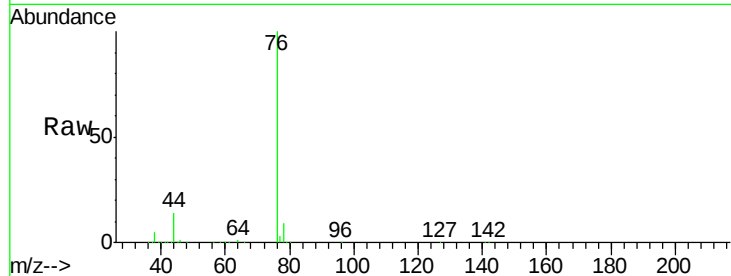
7.4 11.2

Manual Integrations

APPROVED

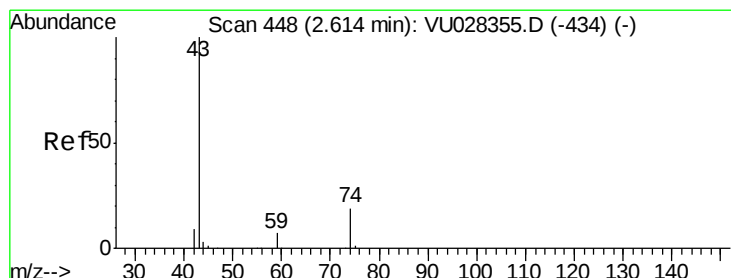
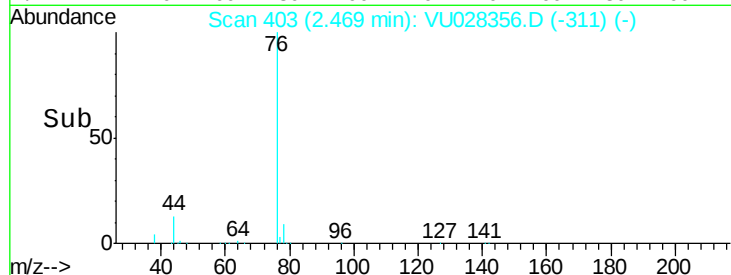
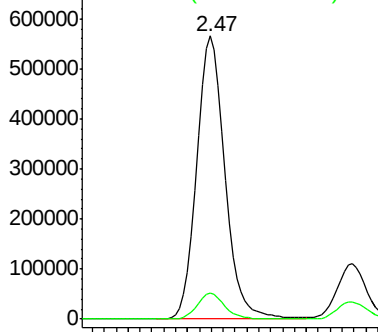
MMDadoda

11/29/2018 1:22:58 PM



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#18

Methyl Acetate

Concen: 100.618 ug/l

RT: 2.61 min Scan# 448

Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

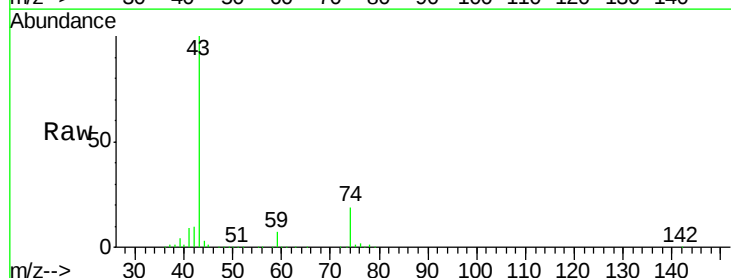
Tgt Ion: 43 Resp: 673912

Ion Ratio Lower Upper

43 100

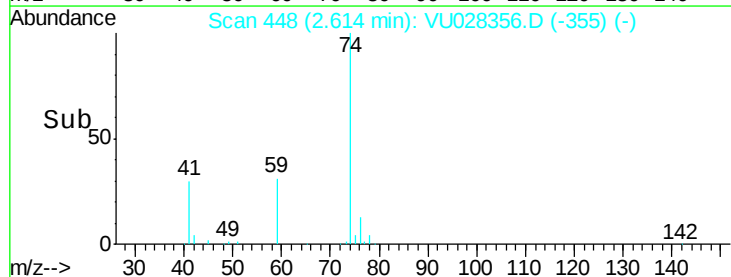
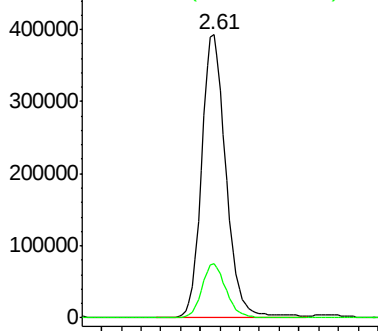
74 19.2

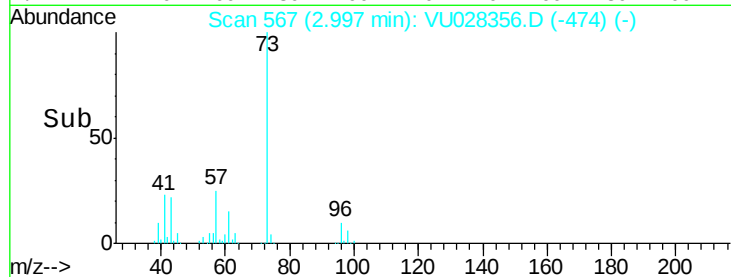
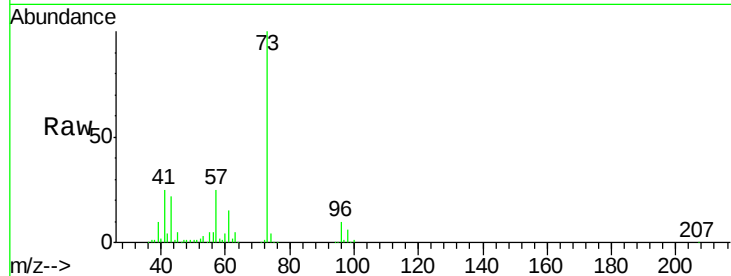
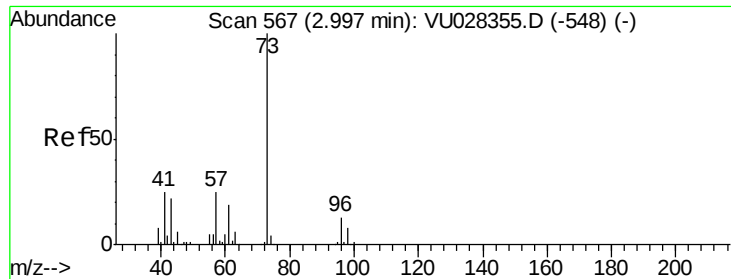
15.3 22.9



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0





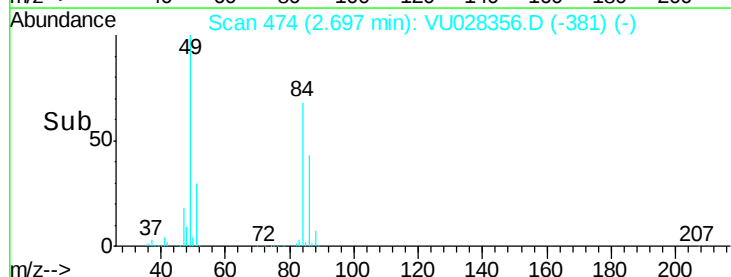
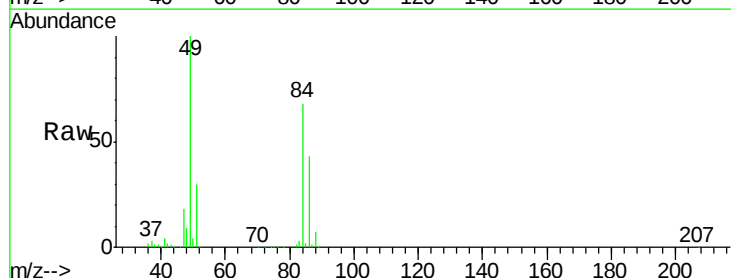
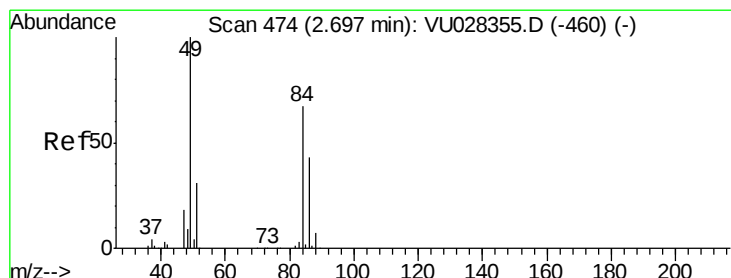
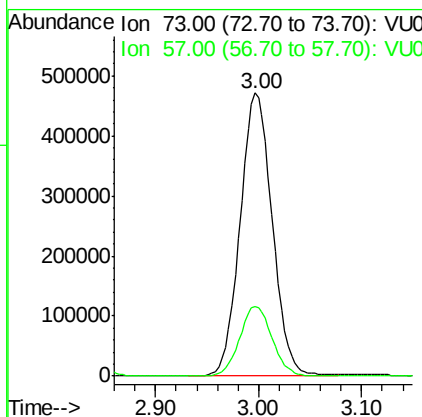
#19
Methvl tert-butvl Ether
Concen: 99.192 ug/l
RT: 3.00 min Scan# 567
Delta R.T. 0.00 min
Lab File: VU028356.D
Acq: 28 Nov 2018 10:47

Tot Ion: 73 Resp: 1022250
Ion Ratio Lower Upper
73 100
57 24.6 20.1 30.1

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC100

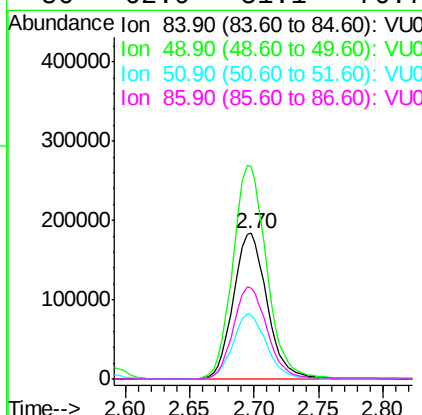
Manual Integrations
APPROVED

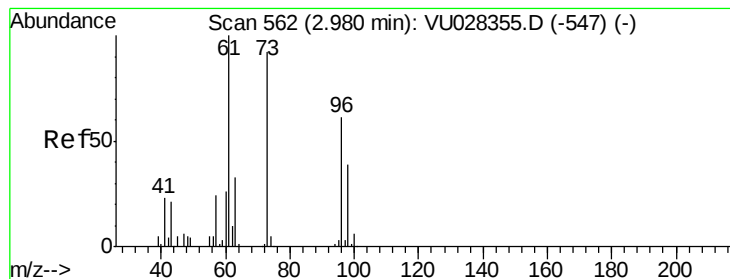
MMDadoda
11/29/2018 1:22:58 PM



#20
Methylene Chloride
Concen: 90.040 ug/l
RT: 2.70 min Scan# 474
Delta R.T. 0.00 min
Lab File: VU028356.D
Acq: 28 Nov 2018 10:47

Tgt Ion: 84 Resp: 335103
Ion Ratio Lower Upper
84 100
49 145.9 120.0 180.0
51 43.9 36.9 55.3
86 62.9 51.1 76.7





#21

trans-1,2-Dichloroethene

Concen: 98.858 ug/l

RT: 2.98 min Scan# 561

Delta R.T. -0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Instrument :

MSVOA_U

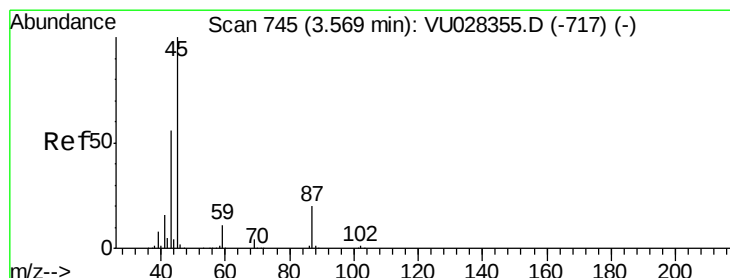
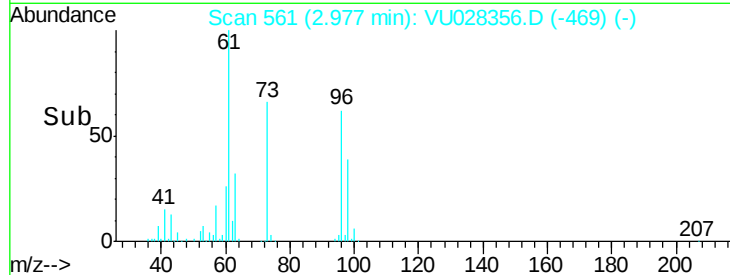
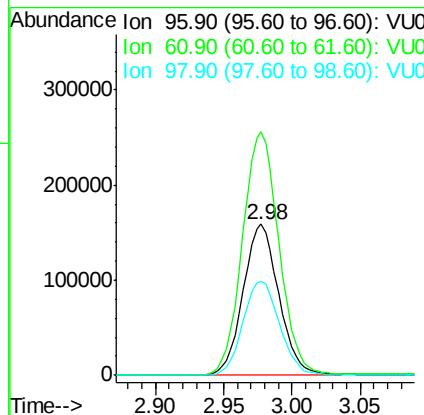
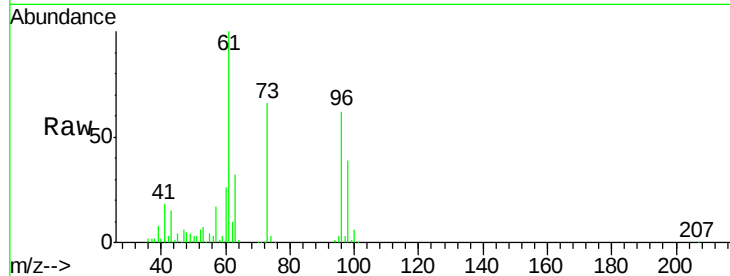
ClientSampleId :

VSTDIC100

Tot Ion:	96	Resp:	288201
Ion	Ratio	Lower	Upper
96	100		
61	161.2	131.1	196.7
98	62.6	51.7	77.5

Manual Integrations
APPROVED

MMDadoda
11/29/2018 1:22:58 PM



#22

Diisopropyl ether

Concen: 100.874 ug/l

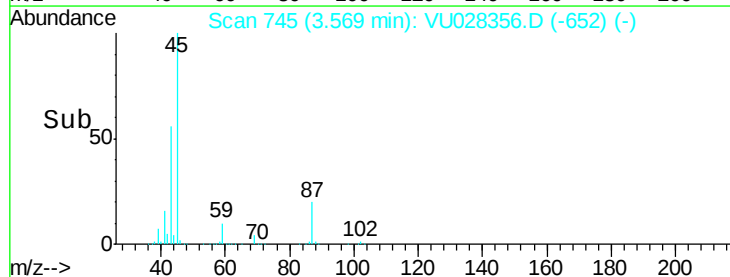
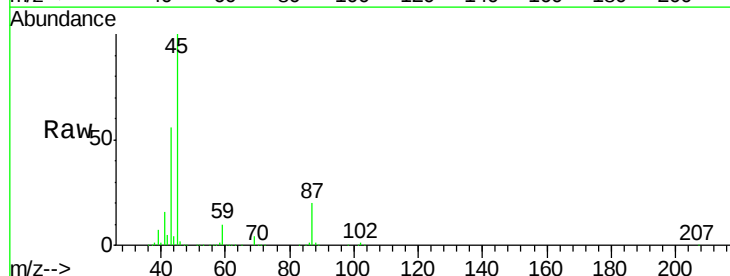
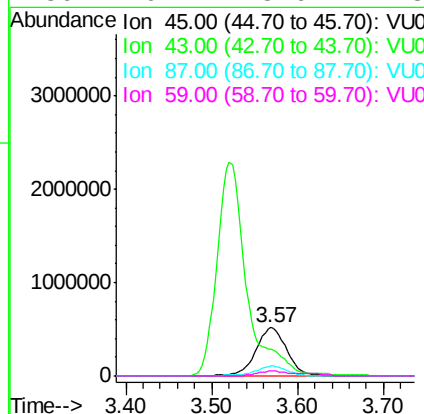
RT: 3.57 min Scan# 745

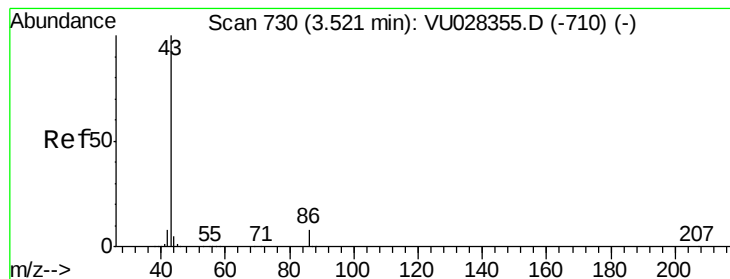
Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Tgt Ion:	45	Resp:	1303591
Ion	Ratio	Lower	Upper
45	100		
43	55.4	44.8	67.2
87	20.4	16.3	24.5
59	10.2	8.6	12.8





#23

Vinyl Acetate

Concen: 517.807 ug/l

RT: 3.52 min Scan# 730

Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 5565332

Ion Ratio Lower Upper

43 100

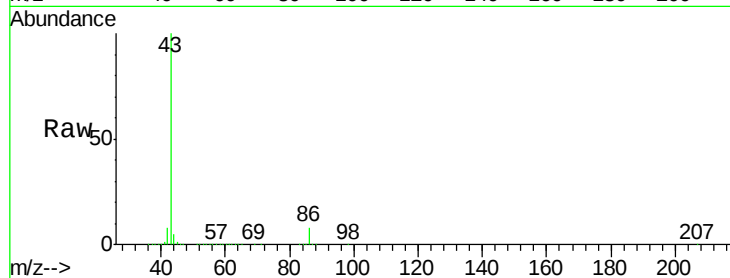
86 7.9 6.5 9.7

Manual Integrations

APPROVED

MMDadoda

11/29/2018 1:22:58 PM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

2500000

2000000

1500000

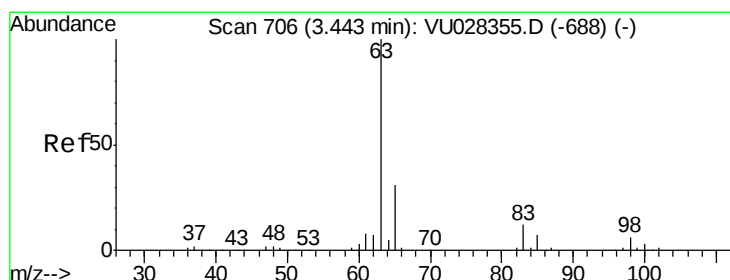
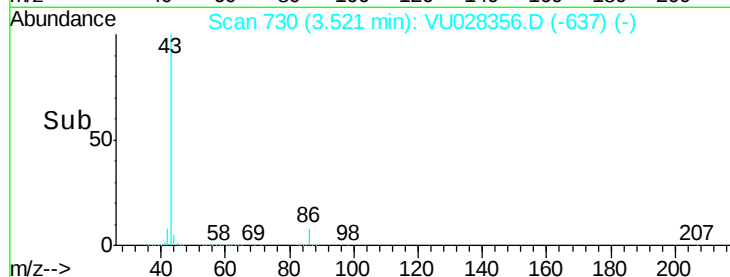
1000000

500000

0

3.40 3.50 3.60 3.70 3.80

Time-->



#24

1,1-Dichloroethane

Concen: 100.881 ug/l

RT: 3.44 min Scan# 706

Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

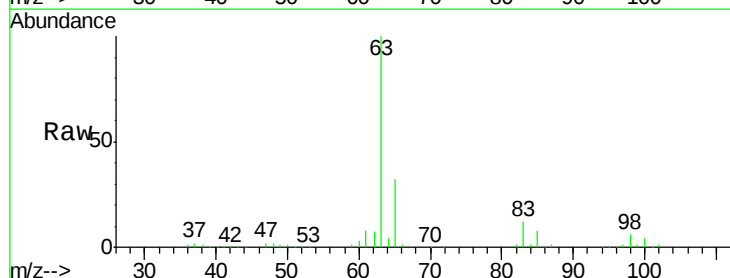
Tgt Ion: 63 Resp: 643130

Ion Ratio Lower Upper

63 100

98 5.5 2.9 8.6

100 3.6 1.7 5.1



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

Ion 99.90 (99.60 to 100.60): VU0

400000

300000

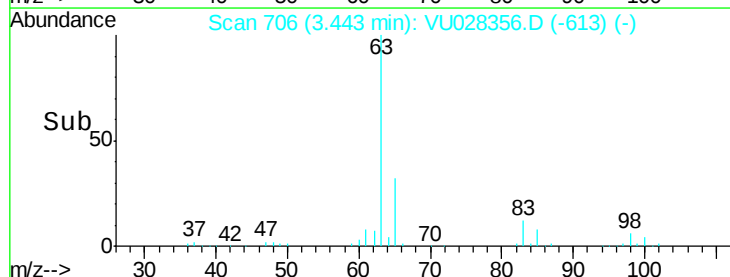
200000

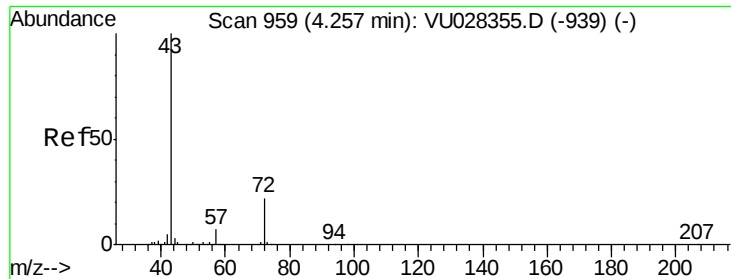
100000

0

3.40 3.50

Time-->





#25

2-Butanone

Concen: 499.974 ug/l

RT: 4.26 min Scan# 960

Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 1723719

Ion Ratio Lower Upper

43 100

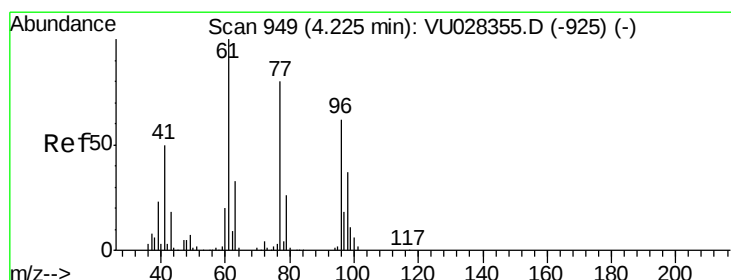
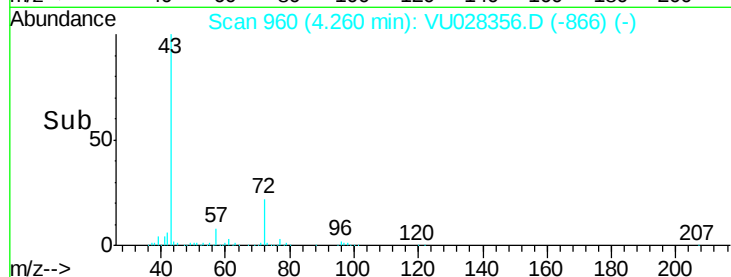
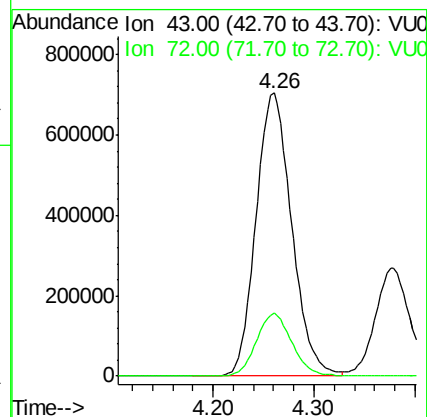
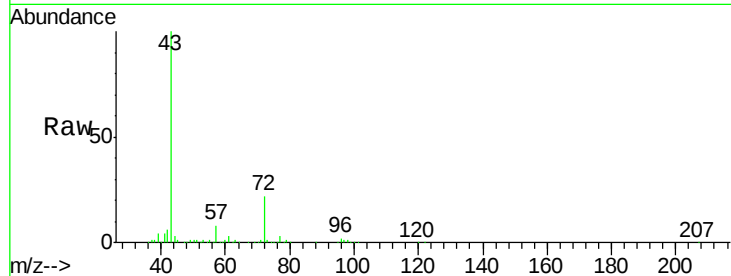
72 22.1 17.7 26.5

Manual Integrations

APPROVED

MMDadoda

11/29/2018 1:22:58 PM



#26

2,2-Dichloropropane

Concen: 100.104 ug/l

RT: 4.22 min Scan# 948

Delta R.T. -0.00 min

Lab File: VU028356.D

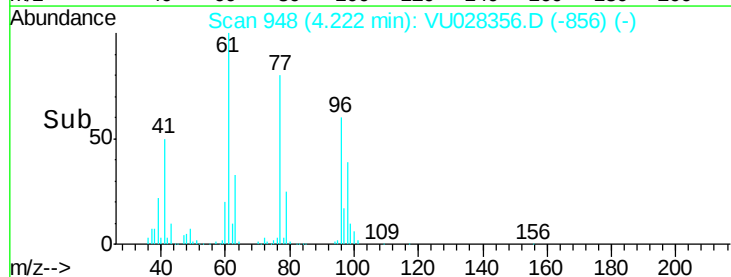
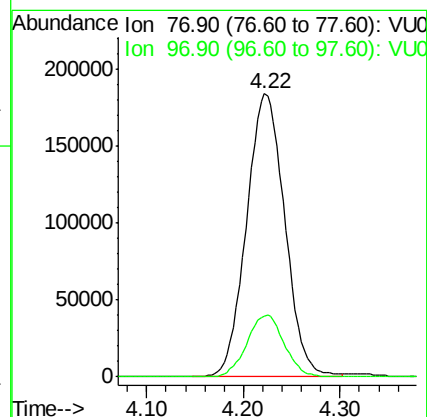
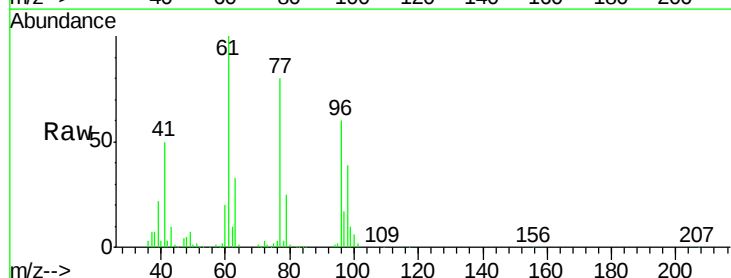
Acq: 28 Nov 2018 10:47

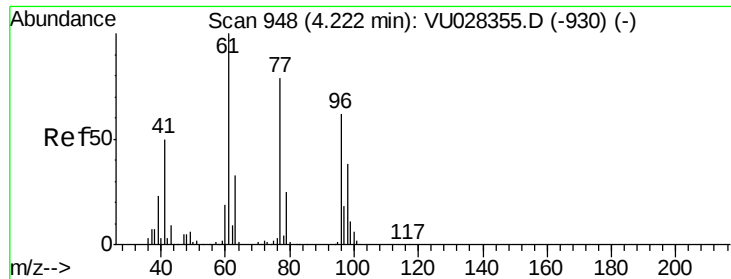
Tgt Ion: 77 Resp: 506829

Ion Ratio Lower Upper

77 100

97 21.3 10.7 32.1





#27

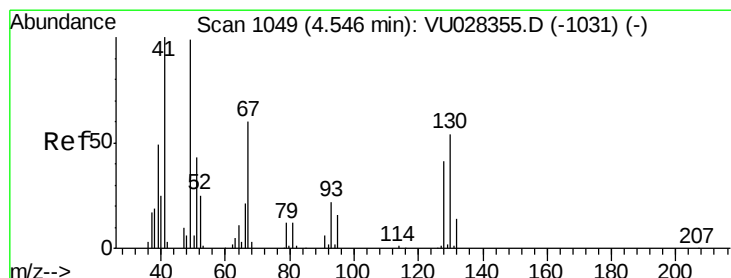
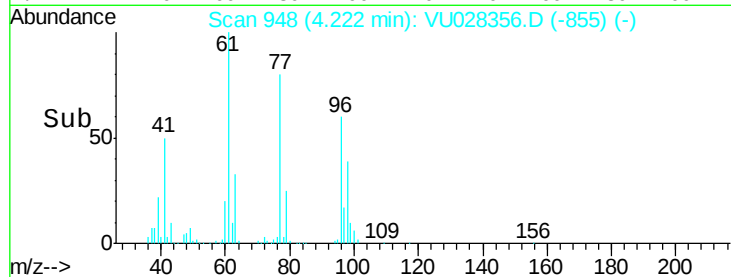
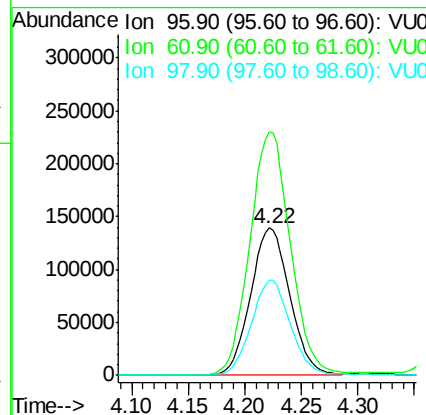
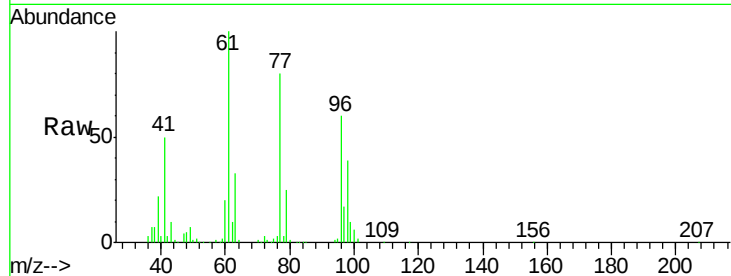
cis-1,2-Dichloroethene
 Concen: 97.623 ug/l
 RT: 4.22 min Scan# 948
 Delta R.T. 0.00 min
 Lab File: VU028356.D
 Acq: 28 Nov 2018 10:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	170.9	0.0	342.0	
98	64.3	0.0	126.4	

Manual Integrations
 APPROVED

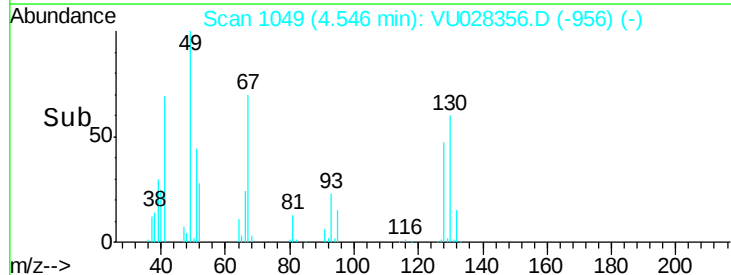
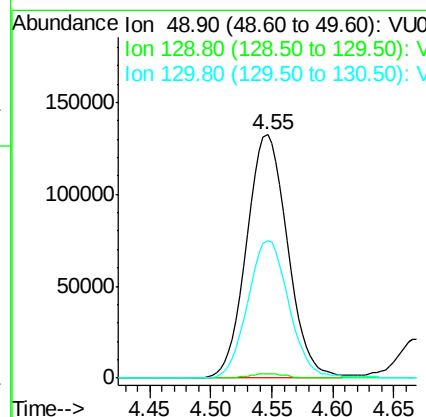
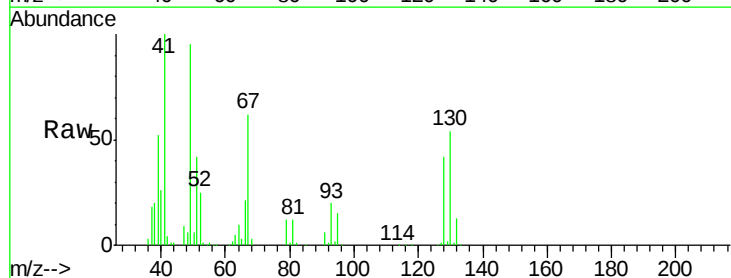
MMDadoda
 11/29/2018 1:22:58 PM

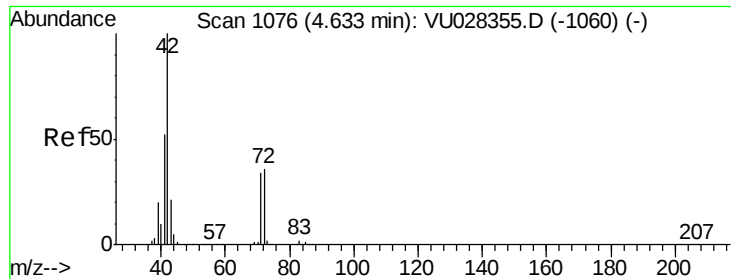


#28

Bromochloromethane
 Concen: 96.849 ug/l
 RT: 4.55 min Scan# 1049
 Delta R.T. 0.00 min
 Lab File: VU028356.D
 Acq: 28 Nov 2018 10:47

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.4	0.0	2.6	
130	57.1	44.5	66.7	





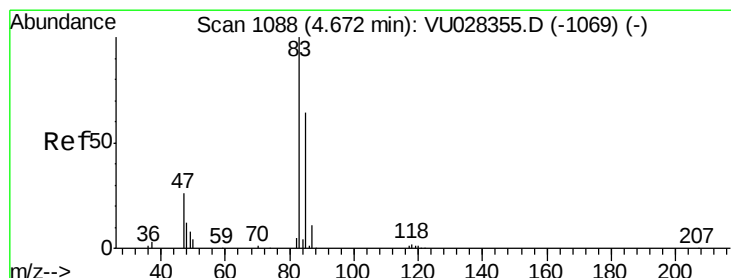
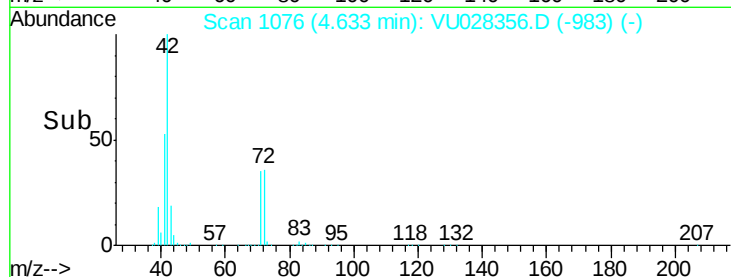
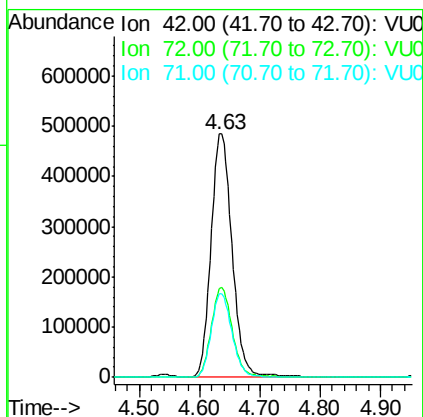
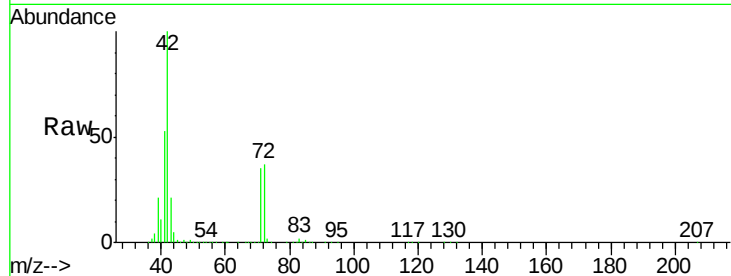
#29
Tetrahydrofuran
Concen: 516.326 ug/l
RT: 4.63 min Scan# 1076
Delta R.T. 0.00 min
Lab File: VU028356.D
Acq: 28 Nov 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC100

Tot Ion: 42 Resp: 1155755
Ion Ratio Lower Upper
42 100
72 36.6 29.5 44.3
71 34.1 27.7 41.5

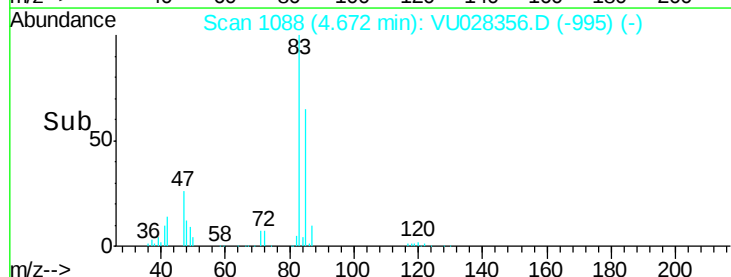
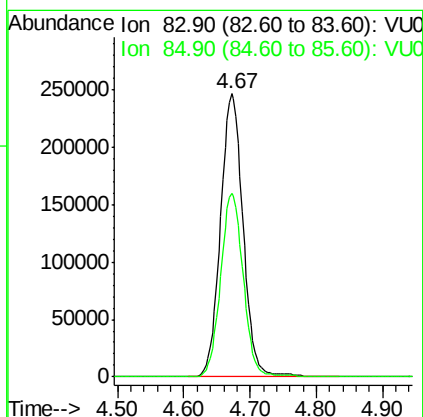
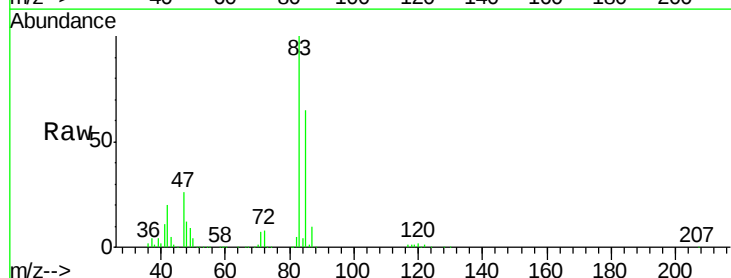
Manual Integrations
APPROVED

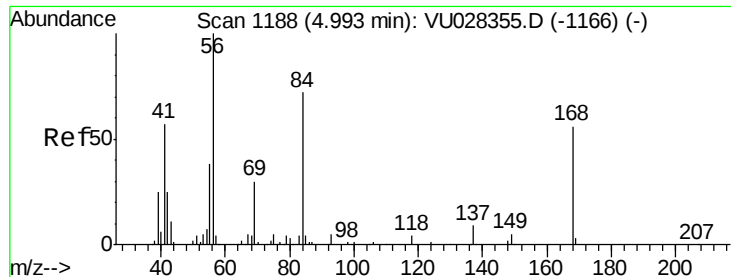
MMDadoda
11/29/2018 1:22:58 PM



#30
Chloroform
Concen: 98.952 ug/l
RT: 4.67 min Scan# 1088
Delta R.T. 0.00 min
Lab File: VU028356.D
Acq: 28 Nov 2018 10:47

Tgt Ion: 83 Resp: 582271
Ion Ratio Lower Upper
83 100
85 64.9 51.2 76.8





#31

Cyclohexane

Concen: 84.644 ug/l

RT: 4.99 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Instrument :

MSVOA_U

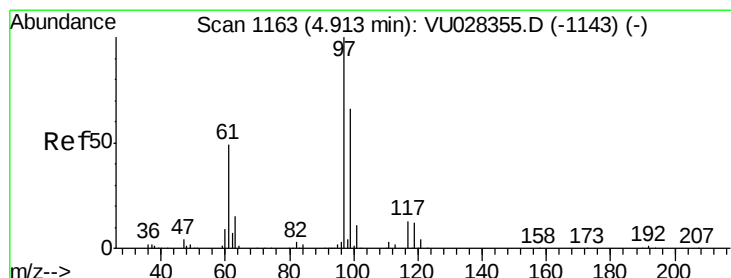
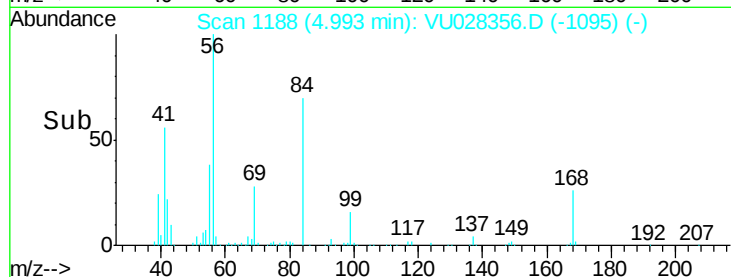
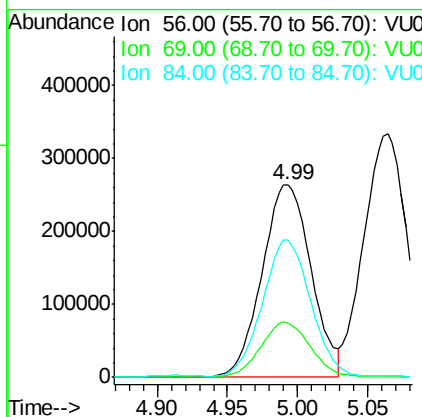
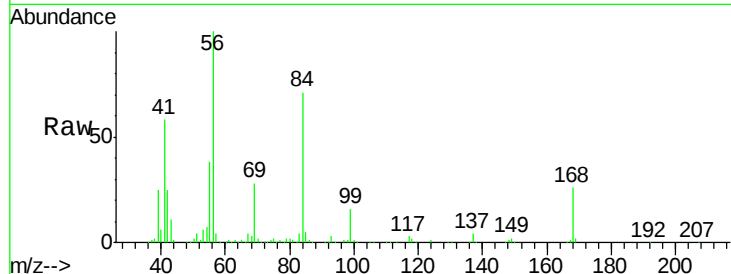
ClientSampleId :

VSTDIC100

Tot Ion:	56	Resp:	640514
Ion	Ratio	Lower	Upper
56	100		
69	28.4	23.7	35.5
84	70.2	57.3	85.9

Manual Integrations
APPROVED

MMDadoda
11/29/2018 1:22:58 PM



#32

1,1,1-Trichloroethane

Concen: 100.199 ug/l

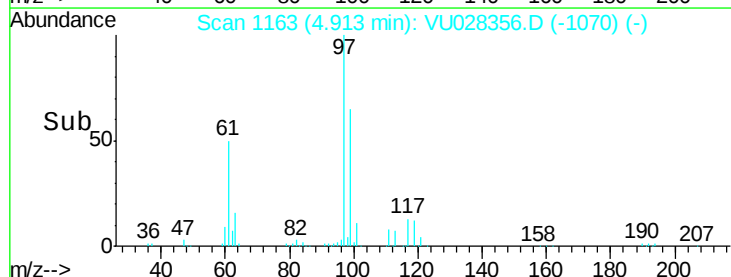
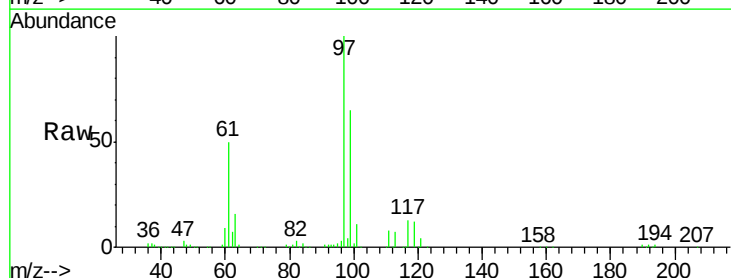
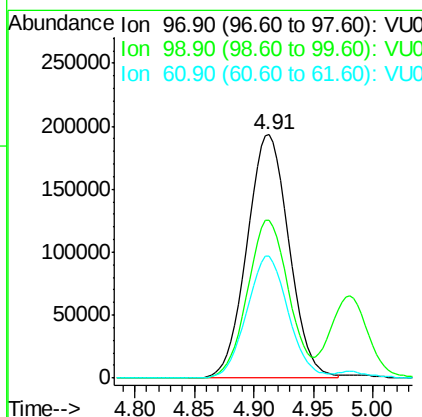
RT: 4.91 min Scan# 1163

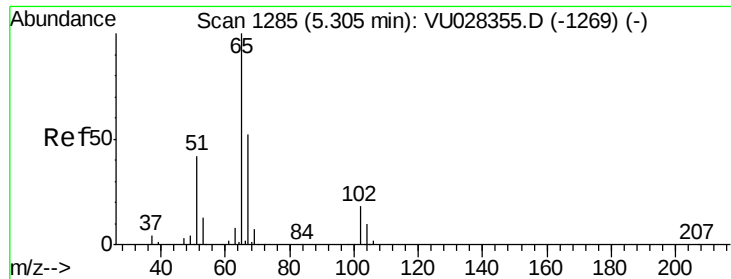
Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Tgt Ion:	97	Resp:	473116
Ion	Ratio	Lower	Upper
97	100		
99	64.1	50.8	76.2
61	49.5	39.1	58.7





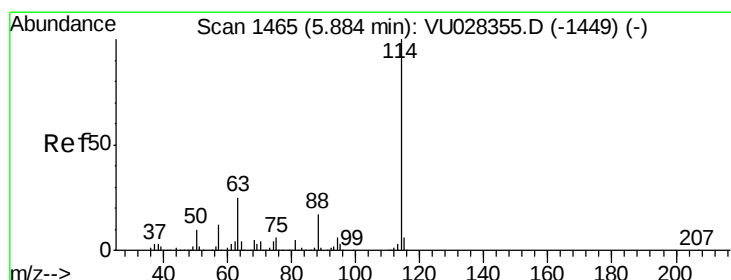
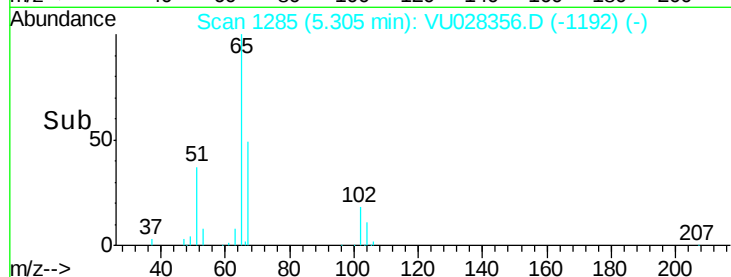
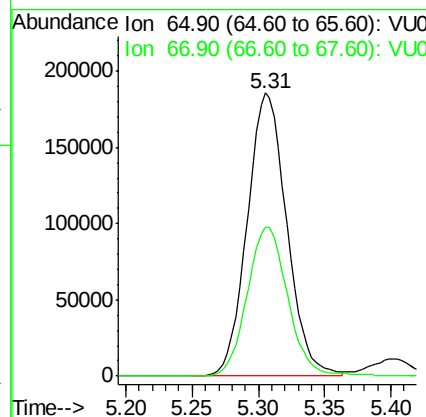
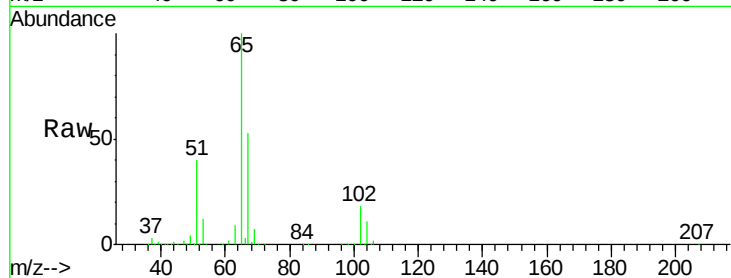
#33
 1,2-Dichloroethane-d4
 Concen: 98.145 ug/l
 RT: 5.31 min Scan# 1285
 Delta R.T. 0.00 min
 Lab File: VU028356.D
 Acq: 28 Nov 2018 10:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	54.3	0.0	106.8	

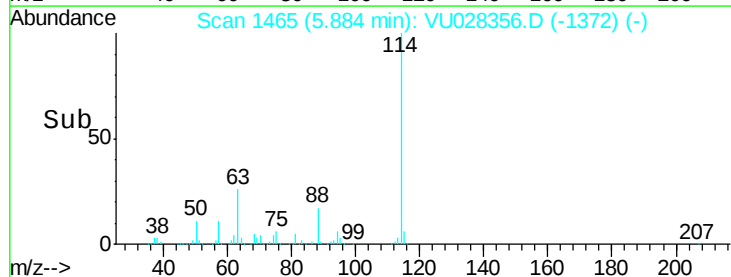
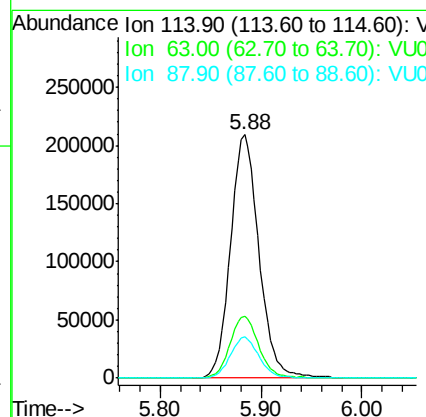
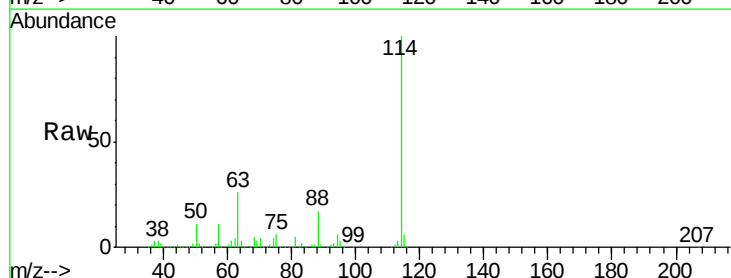
Manual Integrations
 APPROVED

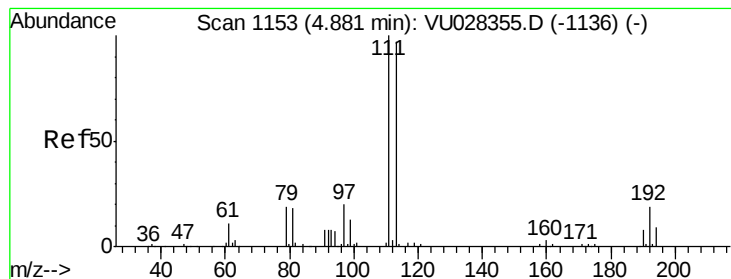
MMDadoda
 11/29/2018 1:22:58 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU028356.D
 Acq: 28 Nov 2018 10:47

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	25.6	0.0	50.0	
88	17.1	0.0	34.4	





#35

Dibromofluoromethane

Concen: 100.647 ug/l

RT: 4.88 min Scan# 1153

Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Instrument :

MSVOA_U

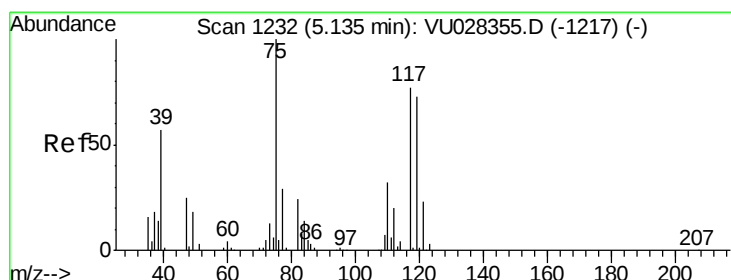
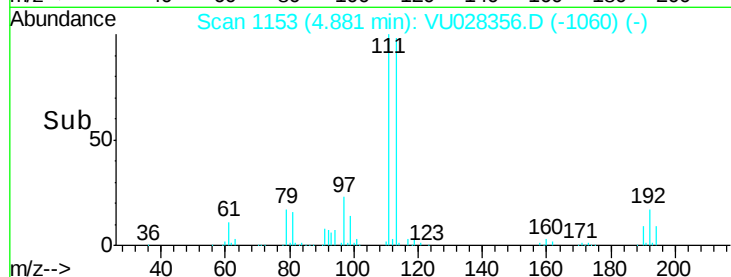
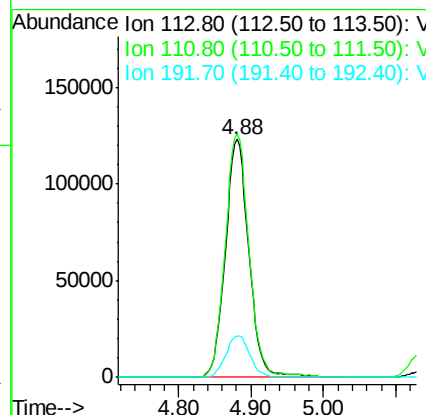
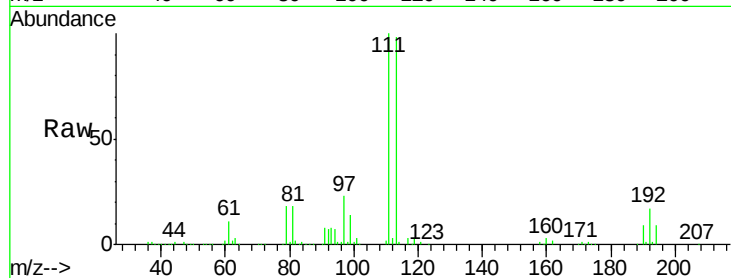
ClientSampleId :

VSTDIC100

Tot Ion:	113	Resp:	276488
Ion Ratio	Lower	Upper	
113	100		
111	102.3	82.9	124.3
192	18.0	15.4	23.0

Manual Integrations
APPROVED

MMDadoda
11/29/2018 1:22:58 PM



#36

1,1-Dichloropropene

Concen: 102.459 ug/l

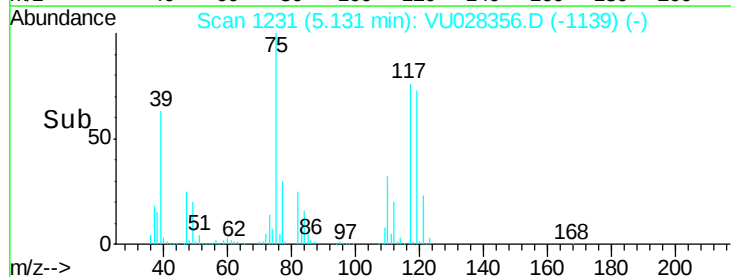
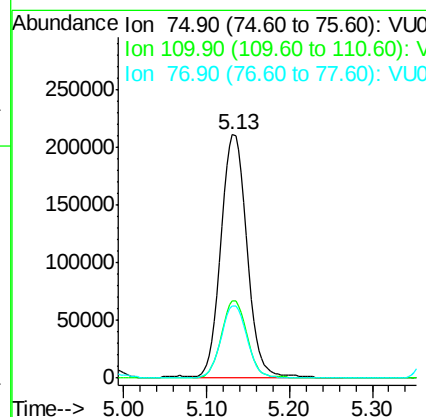
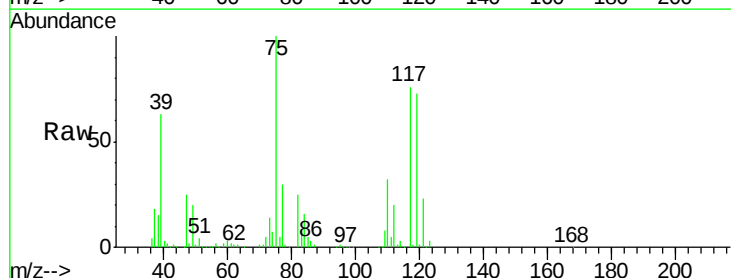
RT: 5.13 min Scan# 1231

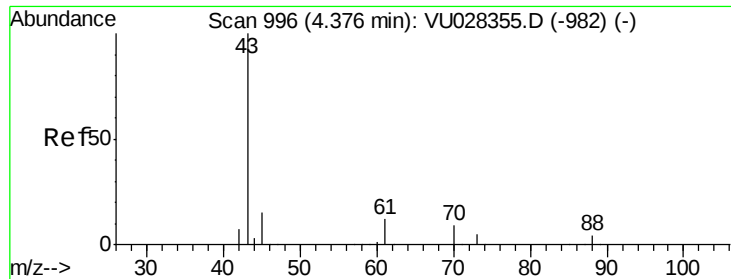
Delta R.T. -0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Tgt Ion:	75	Resp:	463188
Ion Ratio	Lower	Upper	
75	100		
110	31.4	15.8	47.4
77	29.1	24.6	36.8





#37

Ethyl Acetate

Concen: 103.984 ug/l

RT: 4.38 min Scan# 997

Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Instrument :

MSVOA_U

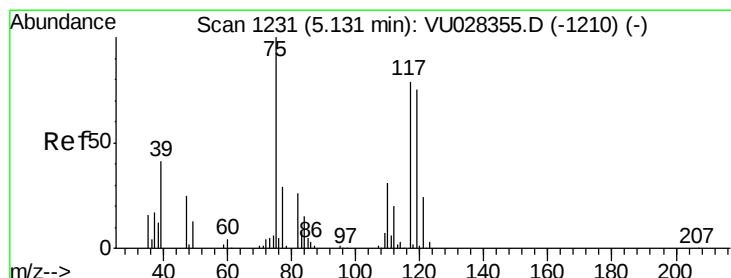
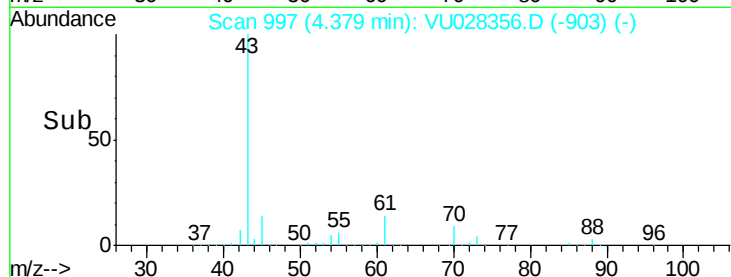
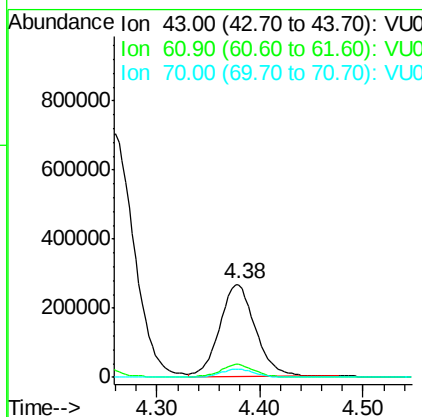
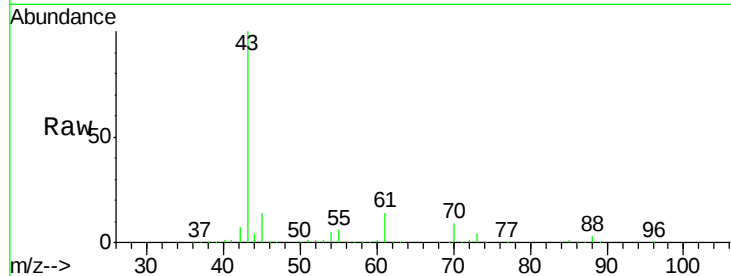
ClientSampleId :

VSTDIC100

Tot Ion:	43	Resp:	640618
Ion	Ratio	Lower	Upper
43	100		
61	13.1	10.2	15.4
70	8.7	6.9	10.3

Manual Integrations
APPROVED

MMDadoda
11/29/2018 1:22:58 PM



#38

Carbon Tetrachloride

Concen: 101.301 ug/l

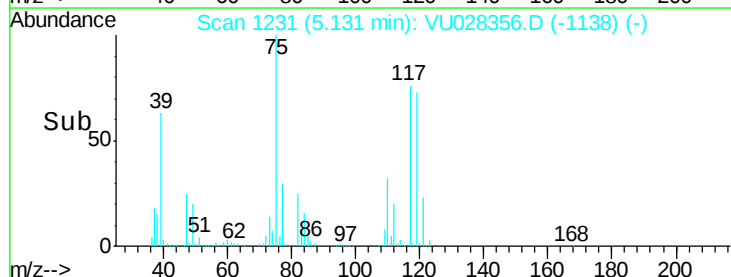
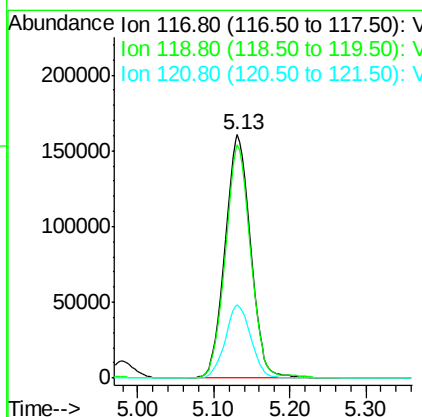
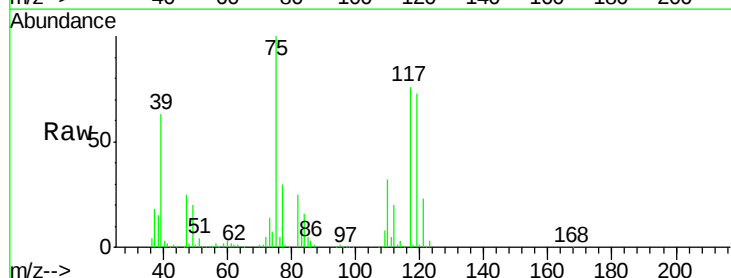
RT: 5.13 min Scan# 1231

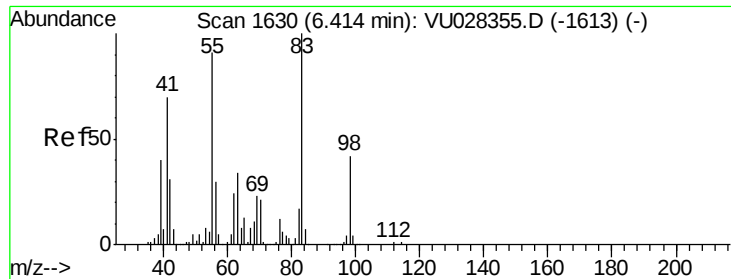
Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Tgt Ion:	117	Resp:	376064
Ion	Ratio	Lower	Upper
117	100		
119	95.6	76.3	114.5
121	30.2	24.7	37.1





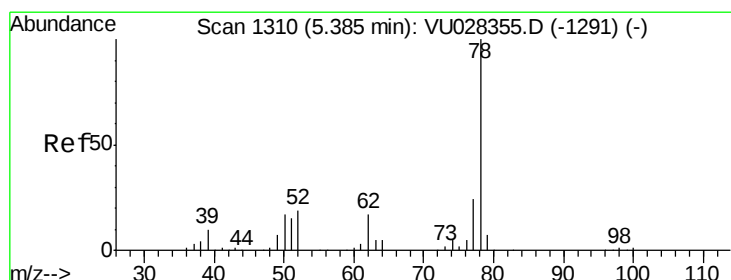
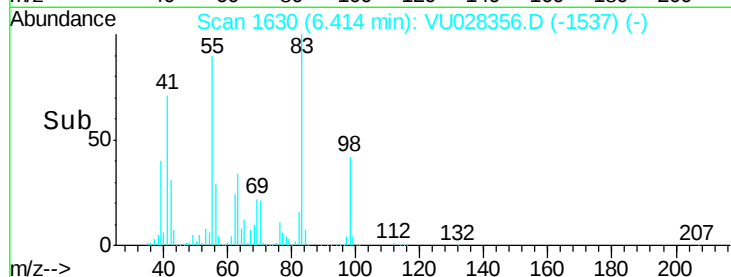
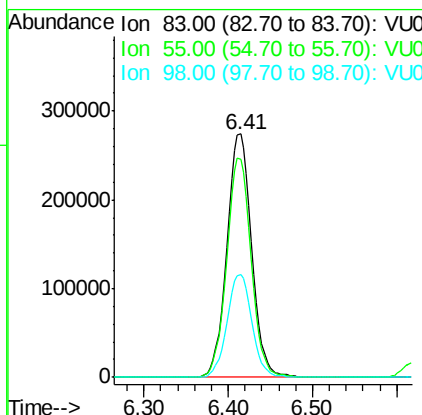
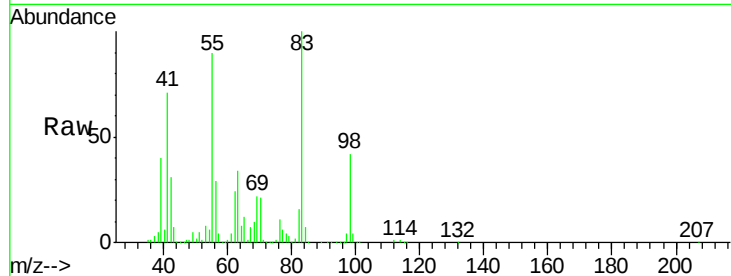
#39
Methvlcvclohexane
Concen: 104.426 ug/l
RT: 6.41 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VU028356.D
Acq: 28 Nov 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
83	100		
55	89.6	73.1	109.7
98	42.4	33.9	50.9

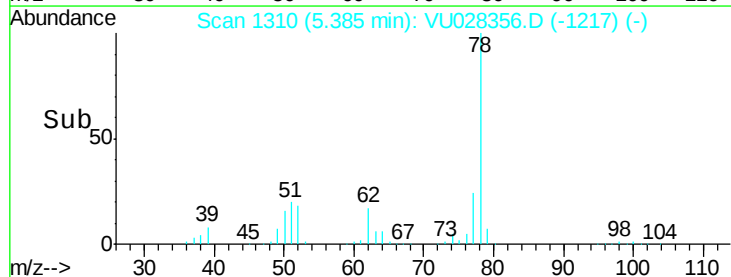
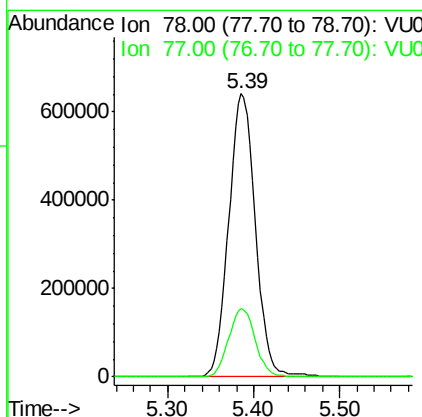
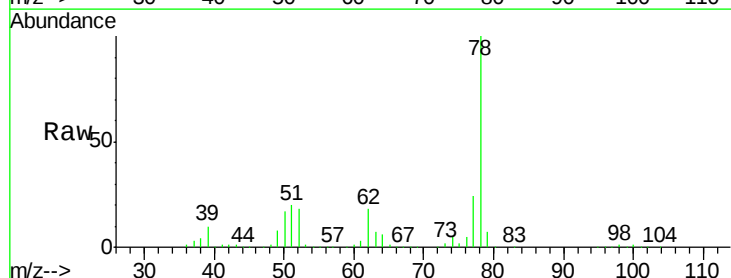
Manual Integrations
APPROVED

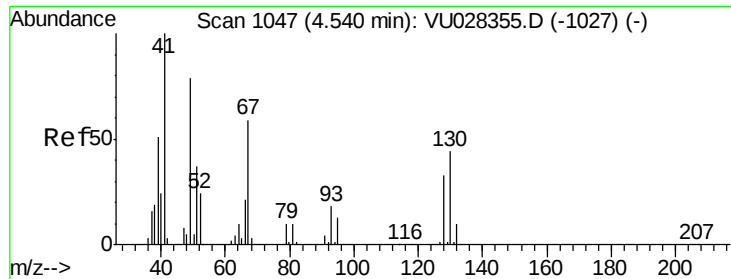
MMDadoda
11/29/2018 1:22:58 PM



#40
Benzene
Concen: 102.979 ug/l
RT: 5.39 min Scan# 1310
Delta R.T. 0.00 min
Lab File: VU028356.D
Acq: 28 Nov 2018 10:47

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.0	28.6





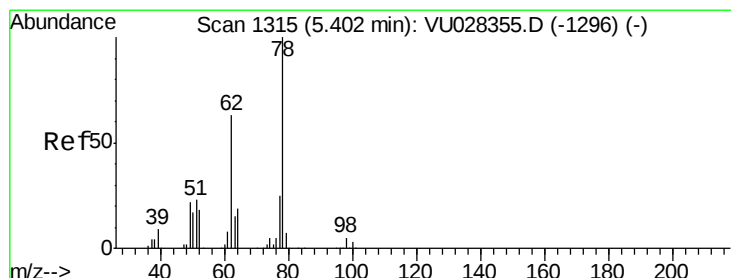
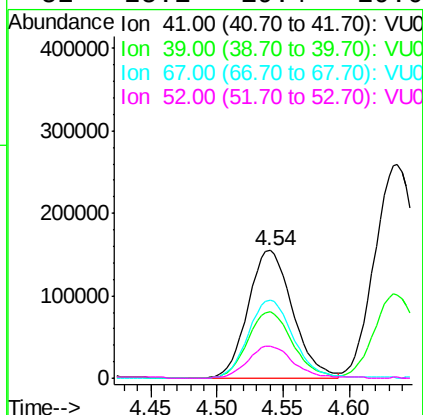
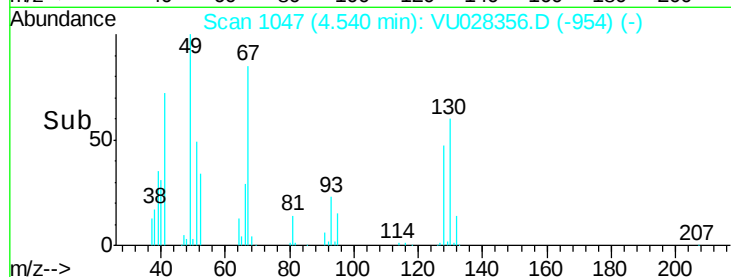
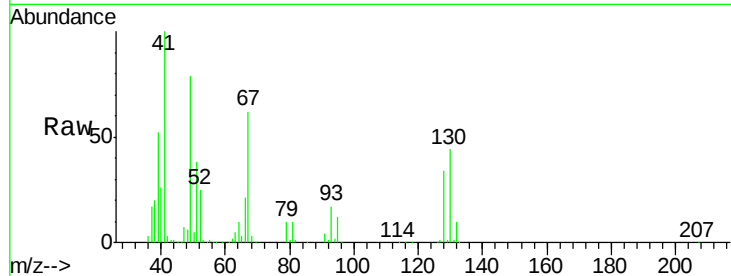
#41
Methacrylonitrile
Concen: 106.150 ug/l
RT: 4.54 min Scan# 1047
Delta R.T. 0.00 min
Lab File: VU028356.D
Acq: 28 Nov 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC100

Tot Ion	Ion	Ratio	Lower	Upper
363172	41	100		
	39	52.4	41.3	61.9
	67	62.7	48.6	73.0
	52	25.1	19.4	29.0

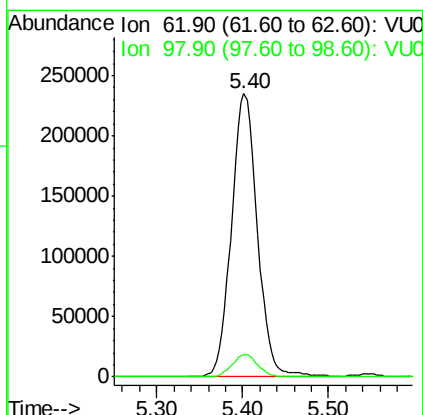
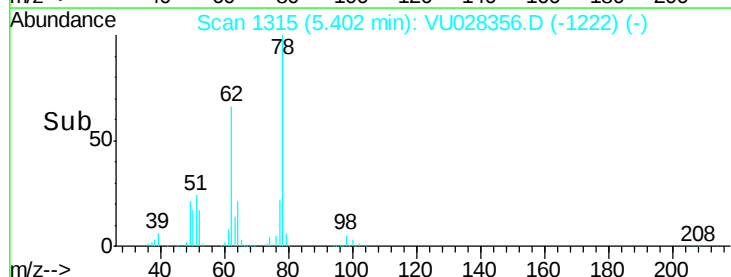
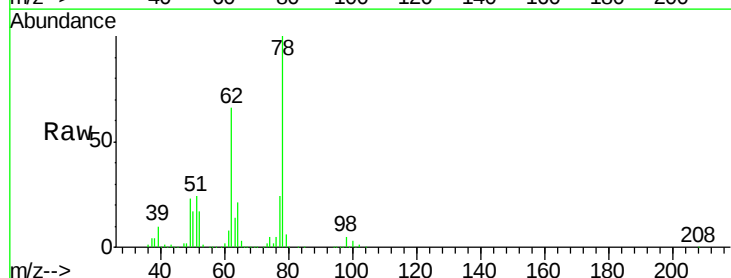
Manual Integrations
APPROVED

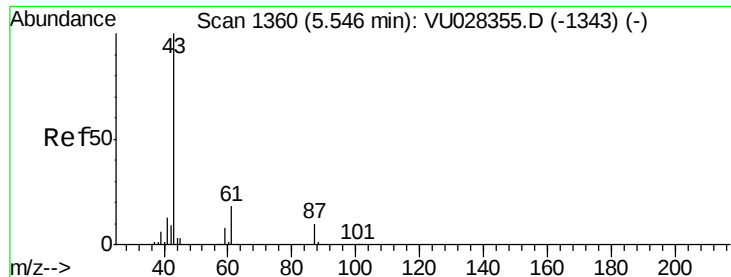
MMDadoda
11/29/2018 1:22:58 PM



#42
1,2-Dichloroethane
Concen: 101.992 ug/l
RT: 5.40 min Scan# 1315
Delta R.T. 0.00 min
Lab File: VU028356.D
Acq: 28 Nov 2018 10:47

Tgt Ion	Ion	Ratio	Lower	Upper
491955	62	100		
	98	7.8	0.0	15.4





#43

Isopropyl Acetate

Concen: 105.491 ug/l

RT: 5.55 min Scan# 1360

Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 1029870

Ion Ratio Lower Upper

43 100

61 18.7 14.5 21.7

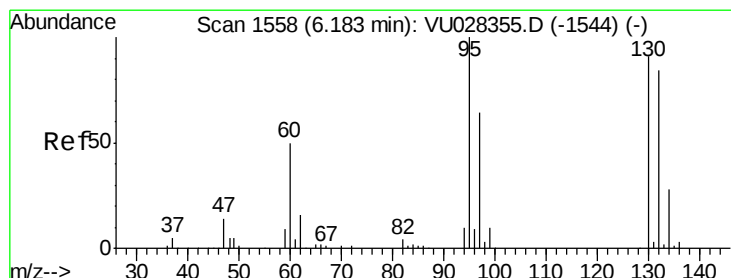
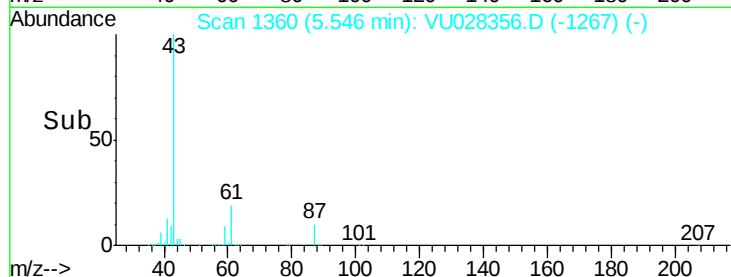
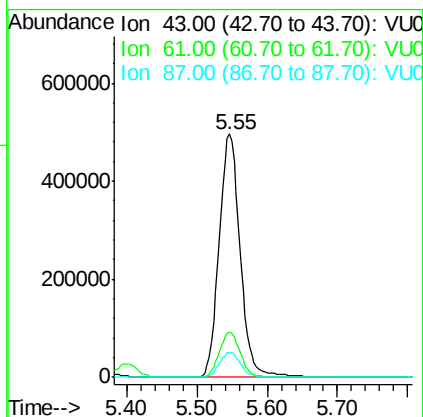
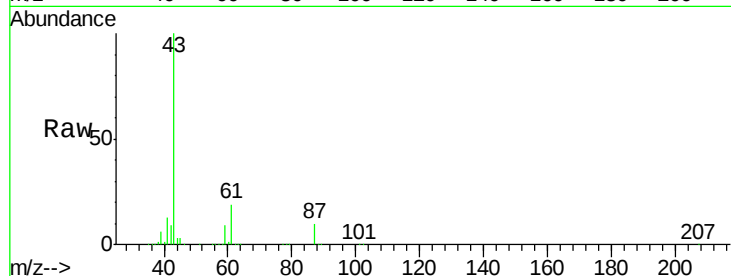
87 10.5 8.4 12.6

Manual Integrations

APPROVED

MMDadoda

11/29/2018 1:22:58 PM



#44

Trichloroethene

Concen: 103.589 ug/l

RT: 6.18 min Scan# 1558

Delta R.T. 0.00 min

Lab File: VU028356.D

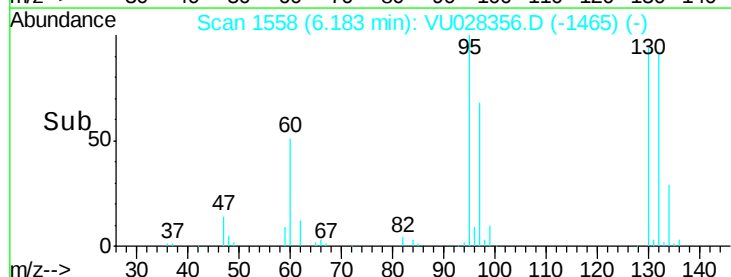
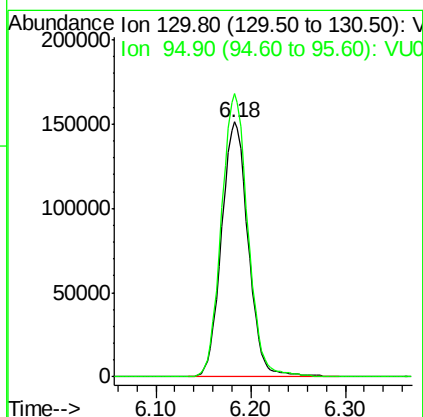
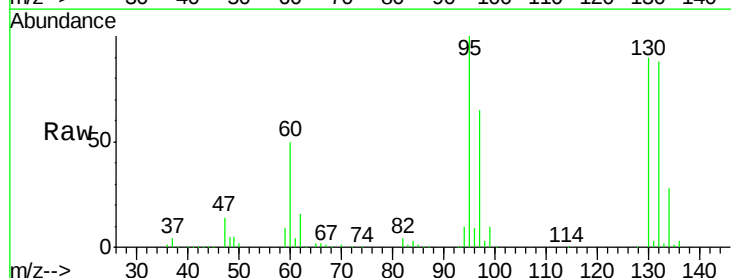
Acq: 28 Nov 2018 10:47

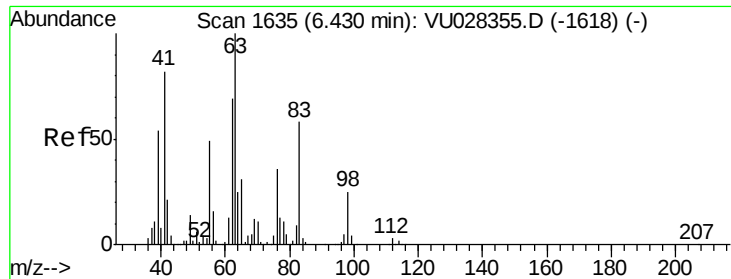
Tgt Ion: 130 Resp: 297302

Ion Ratio Lower Upper

130 100

95 111.0 0.0 219.8





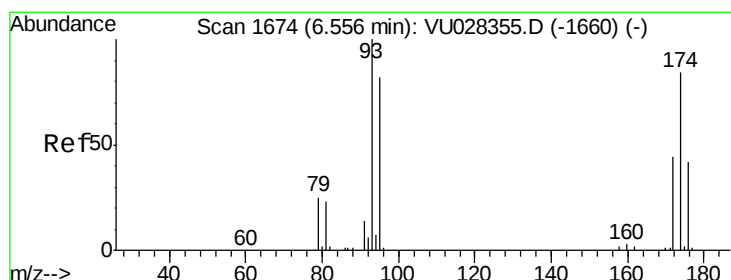
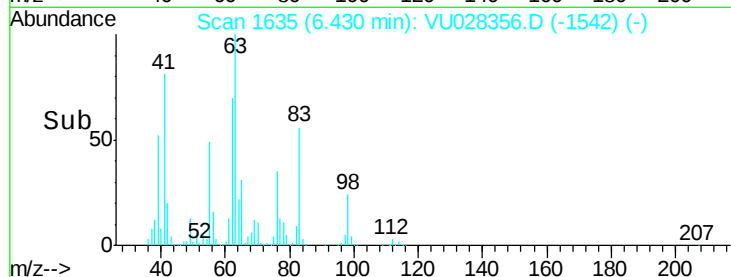
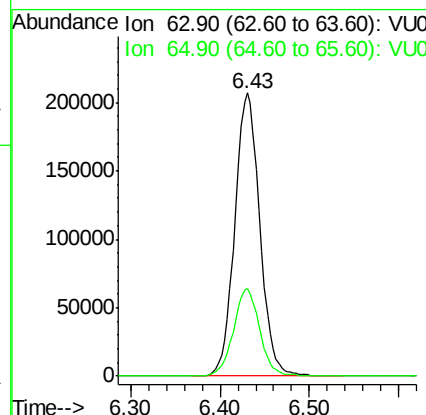
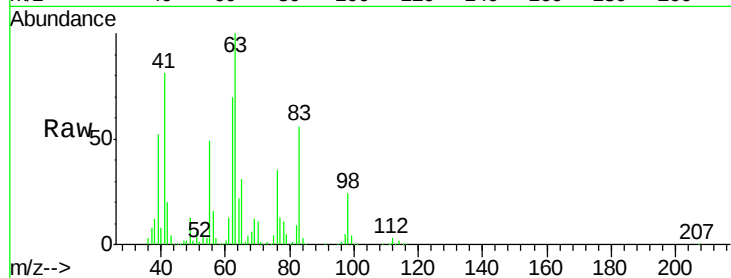
#45
 1,2-Dichloropropane
 Concen: 102.505 ug/l
 RT: 6.43 min Scan# 1635
 Delta R.T. 0.00 min
 Lab File: VU028356.D
 Acq: 28 Nov 2018 10:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC100

Tot Ion: 63 Resp: 401919
 Ion Ratio Lower Upper
 63 100
 65 30.9 25.1 37.7

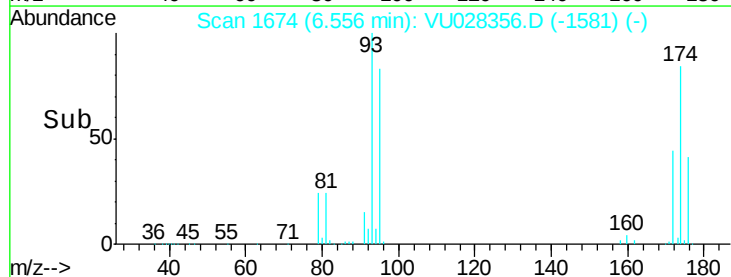
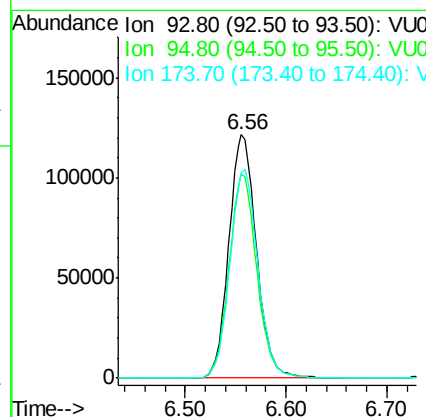
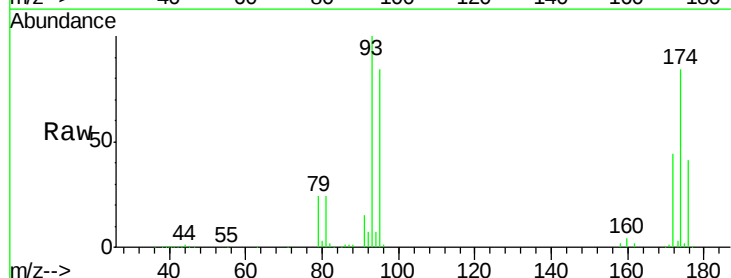
Manual Integrations
 APPROVED

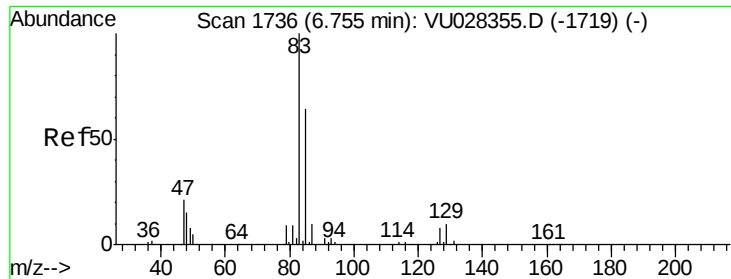
MMDadoda
 11/29/2018 1:22:58 PM



#46
 Dibromomethane
 Concen: 103.100 ug/l
 RT: 6.56 min Scan# 1674
 Delta R.T. 0.00 min
 Lab File: VU028356.D
 Acq: 28 Nov 2018 10:47

Tgt Ion: 93 Resp: 232203
 Ion Ratio Lower Upper
 93 100
 95 84.6 65.1 97.7
 174 86.7 69.9 104.9





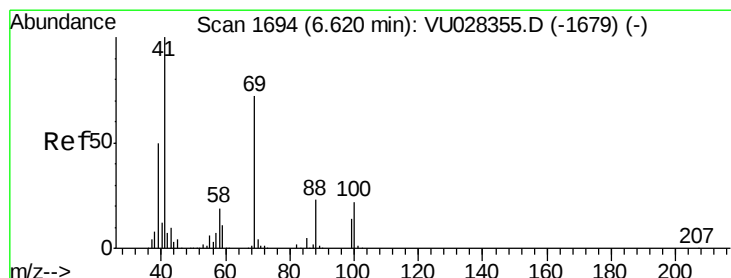
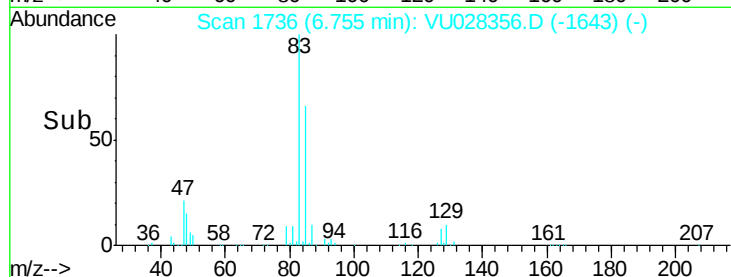
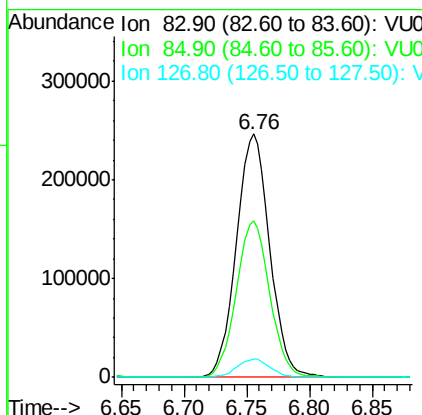
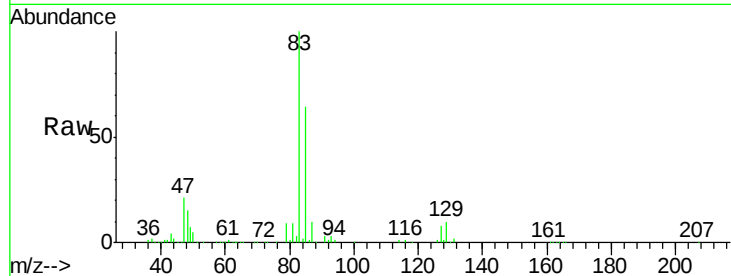
#47
 Bromodichloromethane
 Concen: 101.654 ug/l
 RT: 6.76 min Scan# 1736
 Delta R.T. 0.00 min
 Lab File: VU028356.D
 Acq: 28 Nov 2018 10:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC100

Tot Ion	83	Resp	455382
Ion Ratio	100	Lower	Upper
85	64.3	50.9	76.3
127	7.8	6.2	9.4

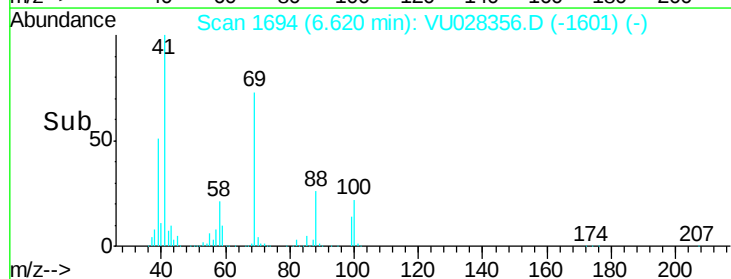
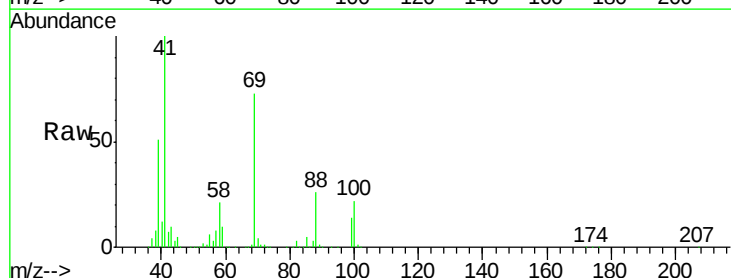
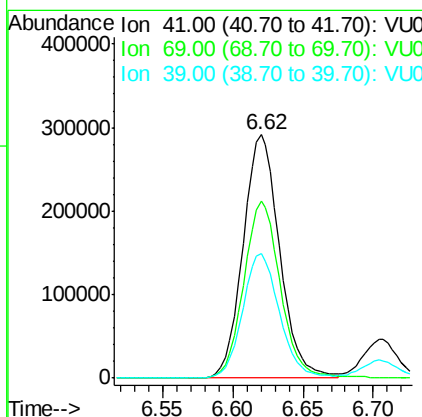
Manual Integrations
 APPROVED

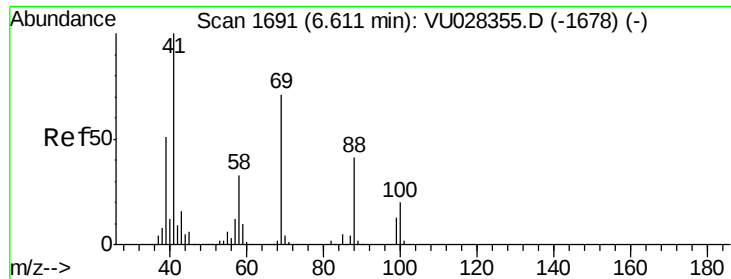
MMDadoda
 11/29/2018 1:22:58 PM



#48
 Methyl methacrylate
 Concen: 103.674 ug/l
 RT: 6.62 min Scan# 1694
 Delta R.T. 0.00 min
 Lab File: VU028356.D
 Acq: 28 Nov 2018 10:47

Tgt Ion	41	Resp	527224
Ion Ratio	100	Lower	Upper
69	73.1	59.0	88.4
39	51.5	40.5	60.7





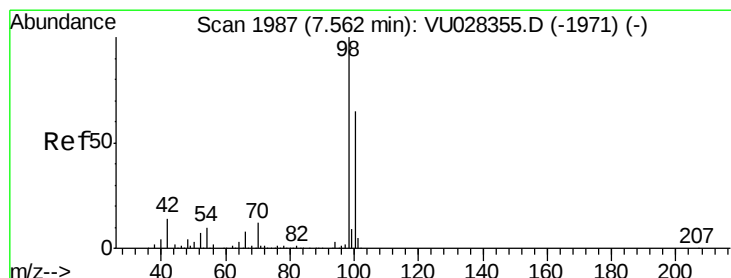
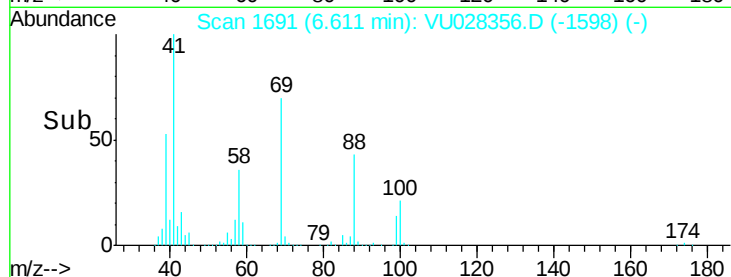
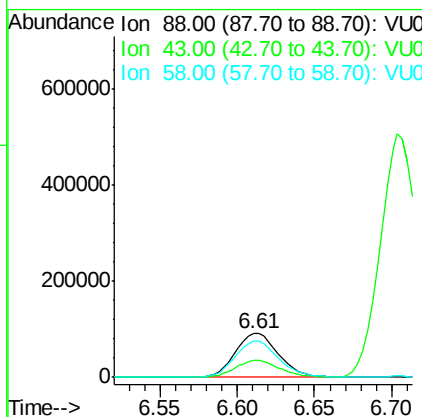
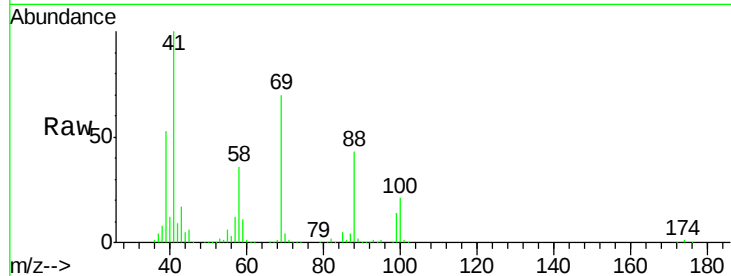
#49
1,4-Dioxane
Concen: 2148.429 ug/l
RT: 6.61 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VU028356.D
Acq: 28 Nov 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
88	100			
43	39.9	32.6	48.8	
58	85.5	68.7	103.1	

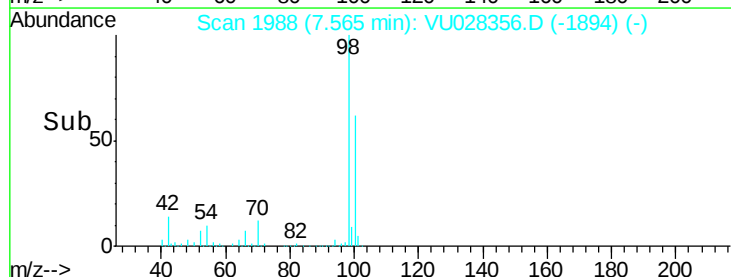
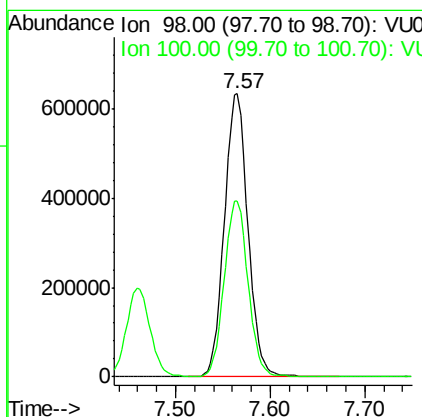
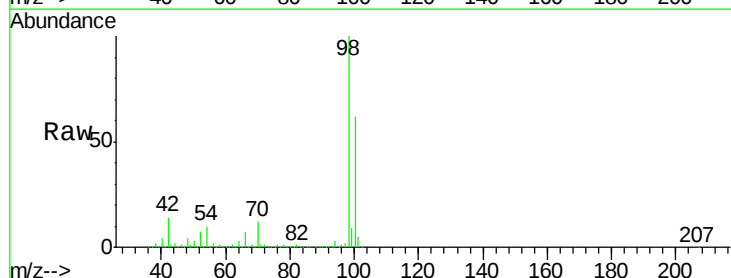
Manual Integrations
APPROVED

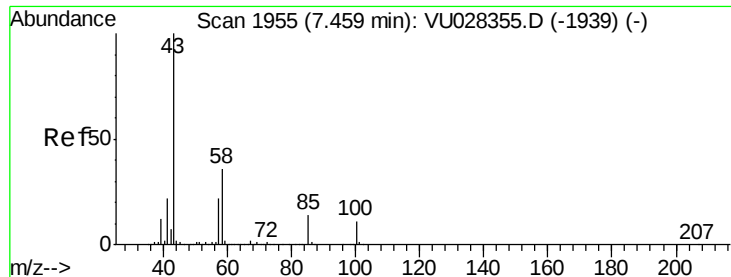
MMDadoda
11/29/2018 1:22:58 PM



#50
Toluene-d8
Concen: 100.029 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VU028356.D
Acq: 28 Nov 2018 10:47

Tgt Ion	Ratio	Resp	Lower	Upper
98	100			
100	62.6	50.8	76.2	





#51

4-Methyl-2-Pentanone

Concen: 524.069 ug/l

RT: 7.46 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 3267696

Ion Ratio Lower Upper

43 100

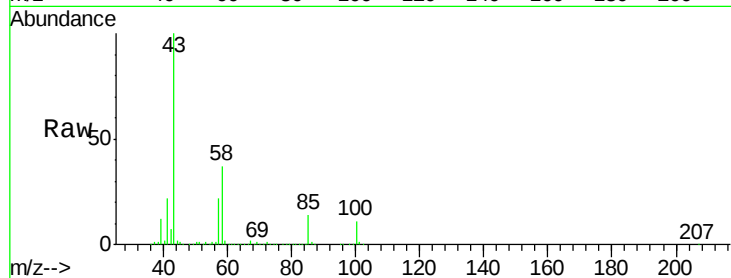
58 36.7 28.8 43.2

Manual Integrations

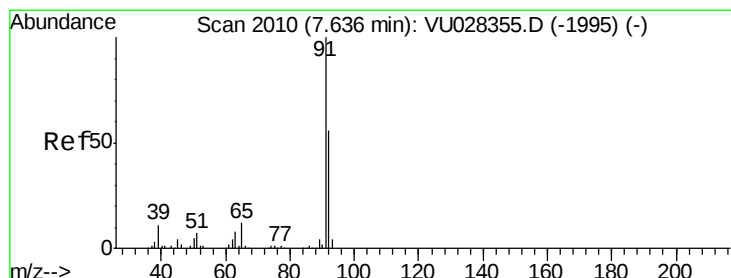
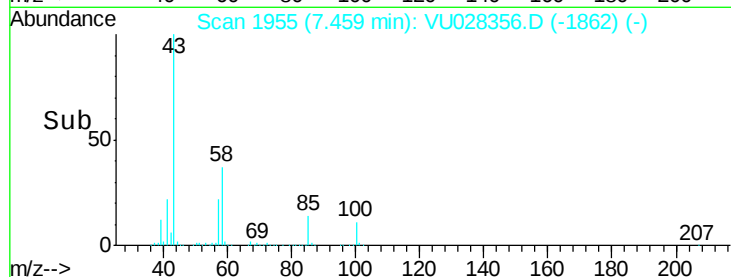
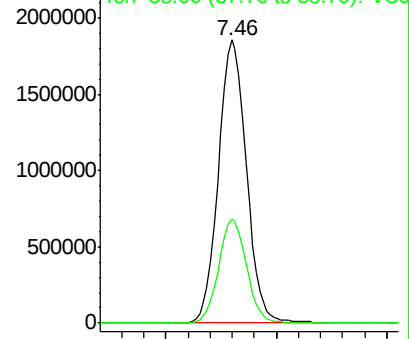
APPROVED

MMDadoda

11/29/2018 1:22:58 PM



Abundance Ion 43.00 (42.70 to 43.70): VU028355.D (-1939) (-)



#52

Toluene

Concen: 105.485 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. 0.00 min

Lab File: VU028356.D

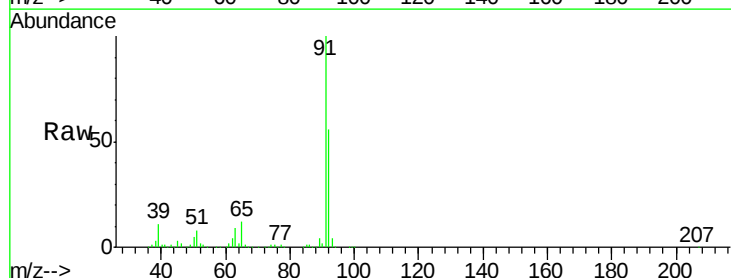
Acq: 28 Nov 2018 10:47

Tgt Ion: 92 Resp: 813317

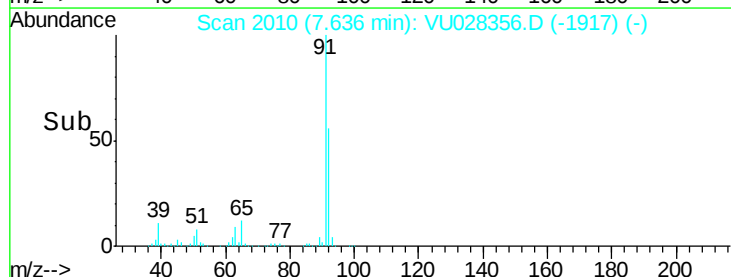
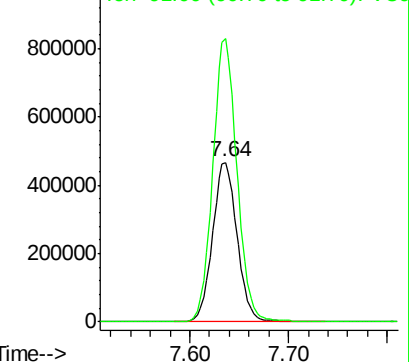
Ion Ratio Lower Upper

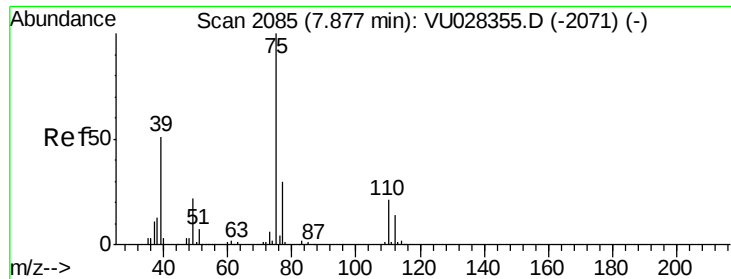
92 100

91 176.1 141.8 212.6



Abundance Ion 92.00 (91.70 to 92.70): VU028355.D (-1995) (-)





#53

t-1,3-Dichloropropene

Concen: 103.887 ug/l

RT: 7.88 min Scan# 2085

Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Tot Ion: 75 Resp: 556496

Ion Ratio Lower Upper

75 100

77 31.7 24.1 36.1

Instrument :

MSVOA_U

ClientSampleId :

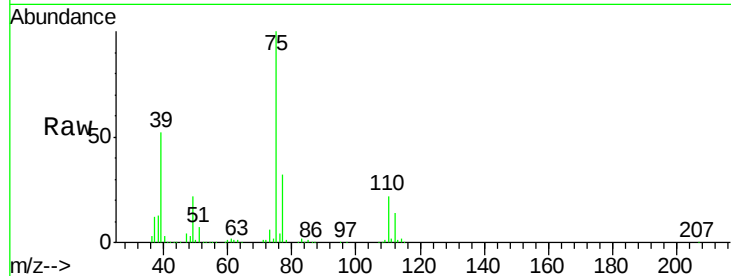
VSTDIC100

Manual Integrations

APPROVED

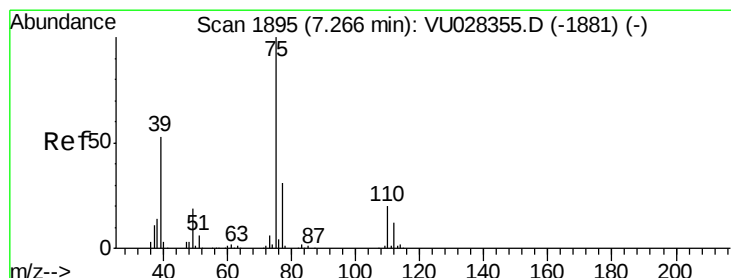
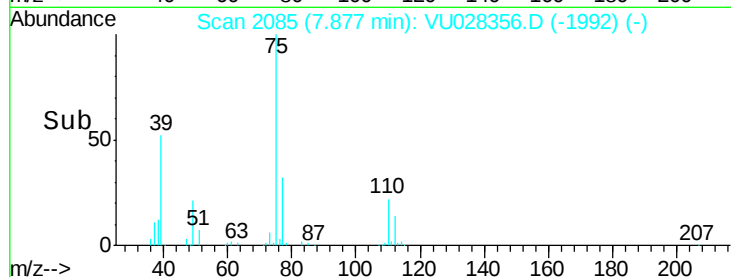
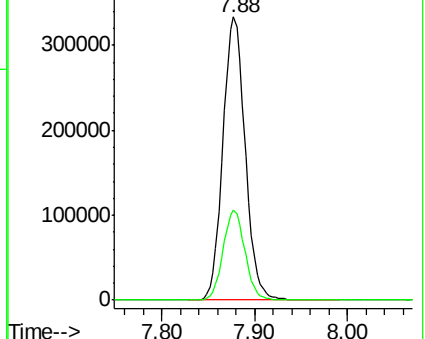
MMDadoda

11/29/2018 1:22:58 PM



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0



#54

cis-1,3-Dichloropropene

Concen: 102.811 ug/l

RT: 7.27 min Scan# 1895

Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

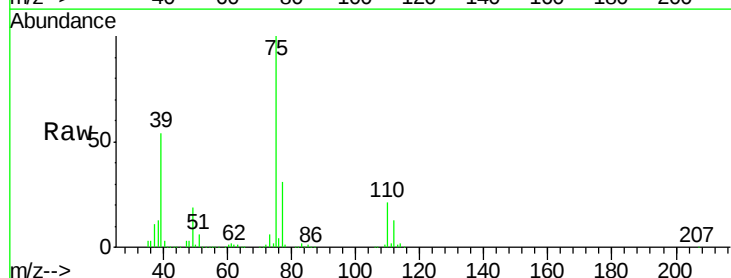
Tgt Ion: 75 Resp: 590002

Ion Ratio Lower Upper

75 100

77 31.0 24.9 37.3

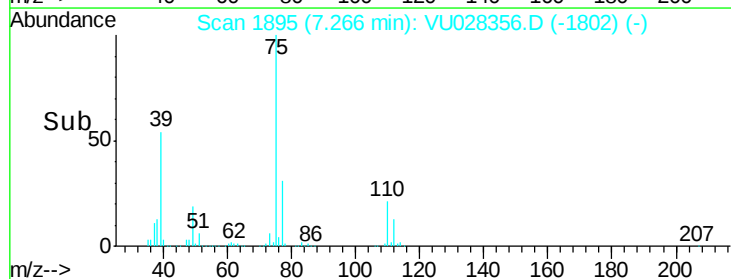
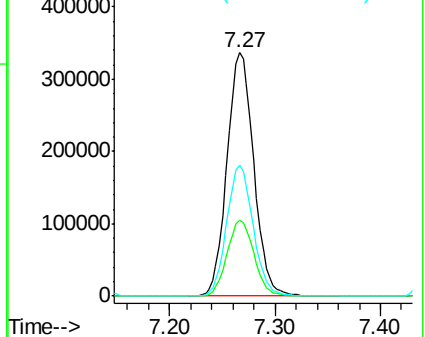
39 53.5 42.6 64.0

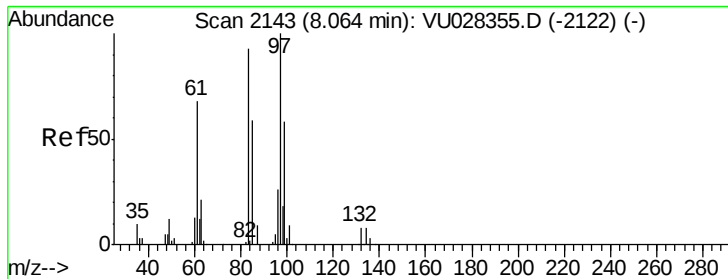


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0





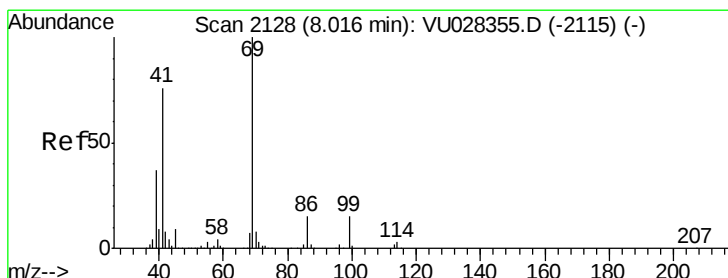
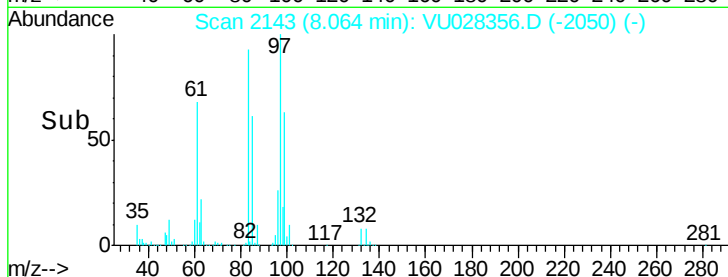
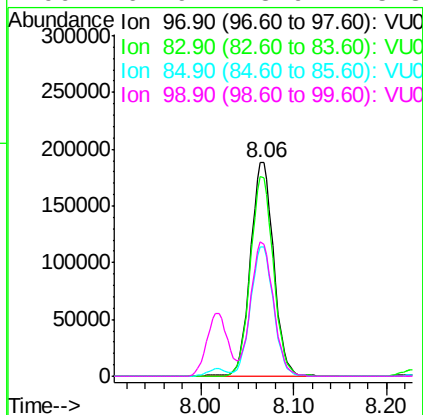
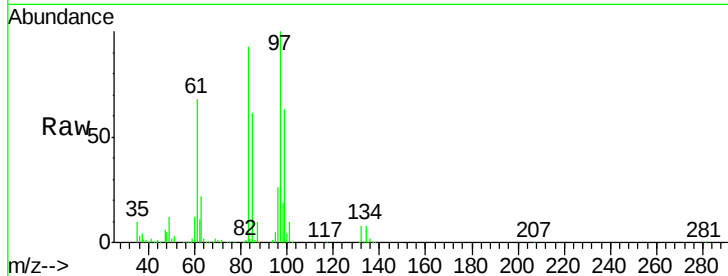
#55
 1,1,2-Trichloroethane
 Concen: 101.557 ug/l
 RT: 8.06 min Scan# 2143
 Delta R.T. 0.00 min
 Lab File: VU028356.D
 Acq: 28 Nov 2018 10:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC100

Tot Ion	97	Resp	325882
Ion Ratio	Lower	Upper	
97	100		
83	93.4	74.3	111.5
85	60.7	47.2	70.8
99	62.9	48.9	73.3

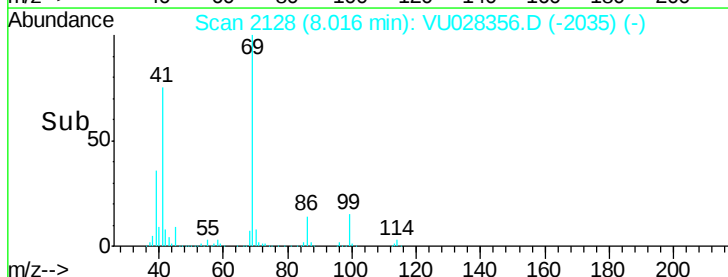
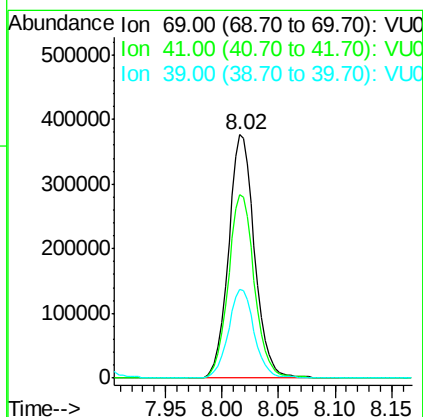
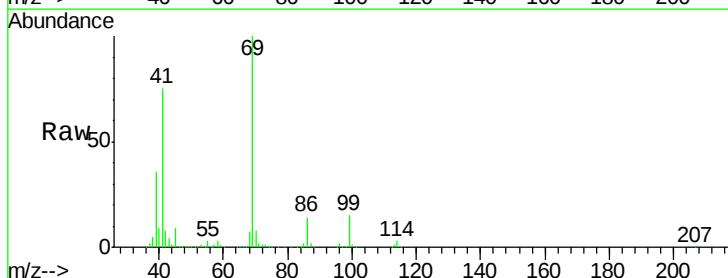
Manual Integrations
 APPROVED

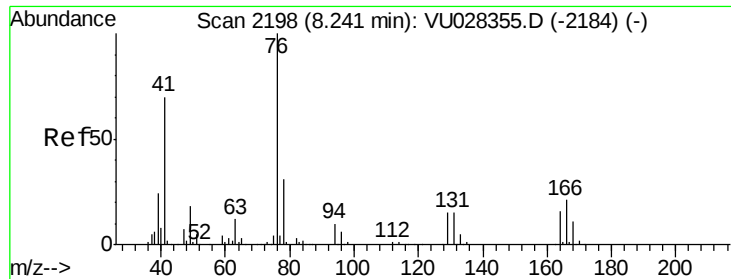
MMDadoda
 11/29/2018 1:22:58 PM



#56
 Ethyl methacrylate
 Concen: 110.072 ug/l
 RT: 8.02 min Scan# 2128
 Delta R.T. 0.00 min
 Lab File: VU028356.D
 Acq: 28 Nov 2018 10:47

Tgt Ion	69	Resp	600888
Ion Ratio	Lower	Upper	
69	100		
41	75.8	60.0	90.0
39	36.1	29.0	43.6





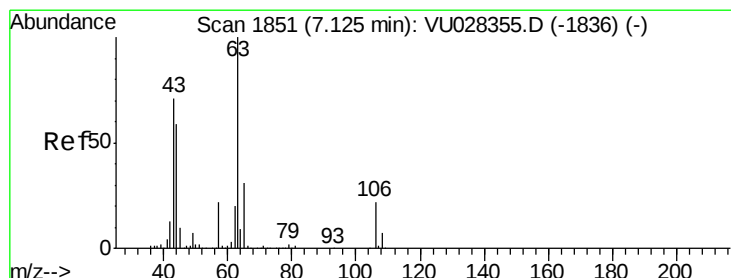
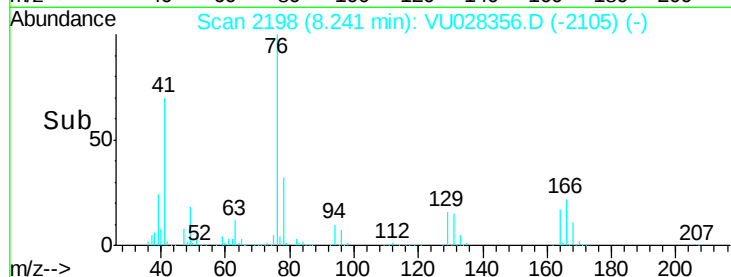
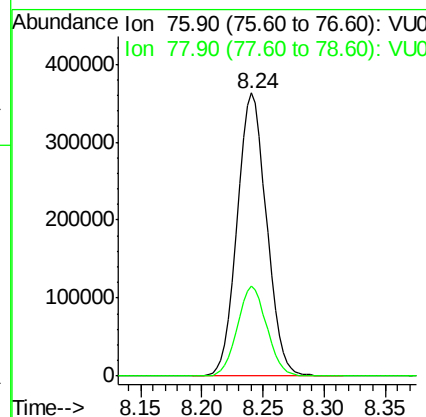
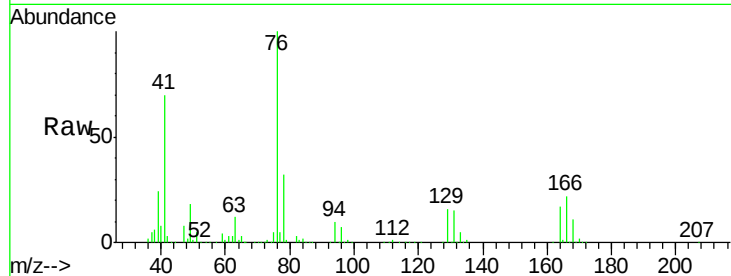
#57
 1,3-Dichloropropane
 Concen: 103.306 ug/l
 RT: 8.24 min Scan# 2198
 Delta R.T. 0.00 min
 Lab File: VU028356.D
 Acq: 28 Nov 2018 10:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC100

Tot Ion: 76 Resp: 607917
 Ion Ratio Lower Upper
 76 100
 78 31.8 25.4 38.0

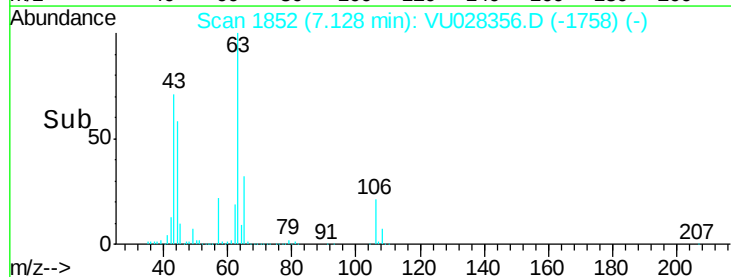
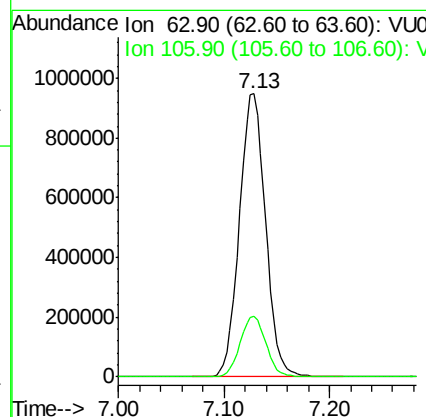
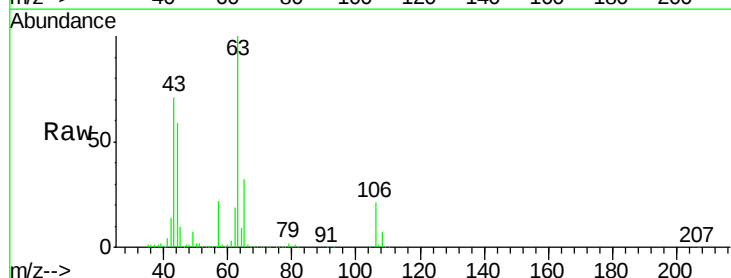
Manual Integrations
 APPROVED

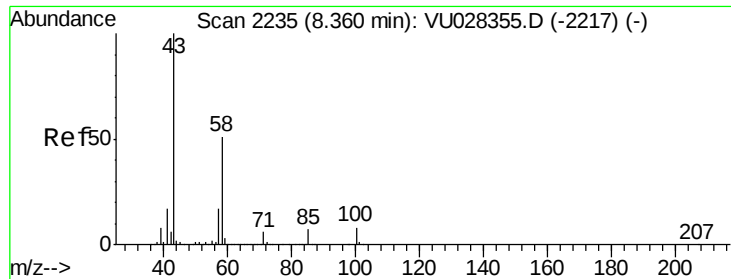
MMDadoda
 11/29/2018 1:22:58 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 555.666 ug/l
 RT: 7.13 min Scan# 1852
 Delta R.T. 0.00 min
 Lab File: VU028356.D
 Acq: 28 Nov 2018 10:47

Tgt Ion: 63 Resp: 1628591
 Ion Ratio Lower Upper
 63 100
 106 21.3 17.3 25.9





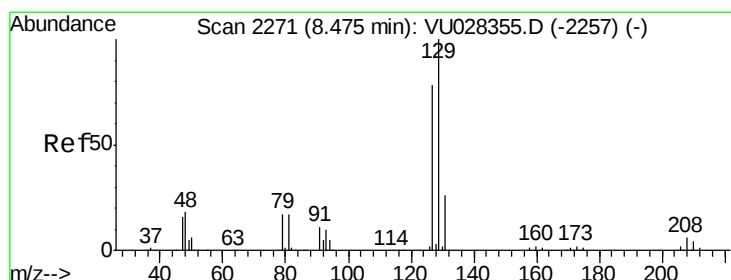
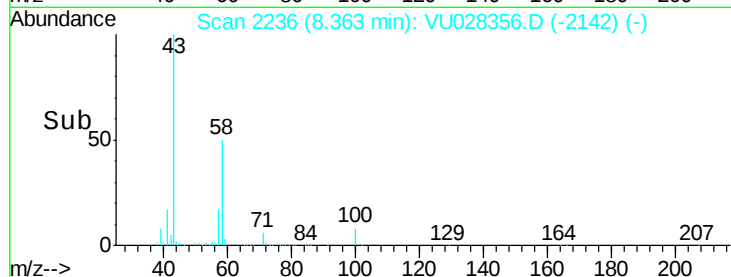
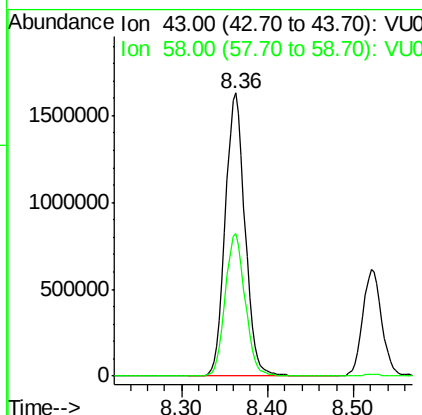
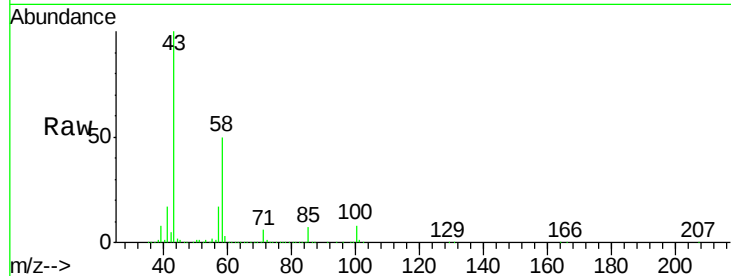
#59
2-Hexanone
Concen: 538.061 ug/l
RT: 8.36 min Scan# 2236
Delta R.T. 0.00 min
Lab File: VU028356.D
Acq: 28 Nov 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC100

Tot Ion: 43 Resp: 2598742
Ion Ratio Lower Upper
43 100
58 50.9 25.5 76.5

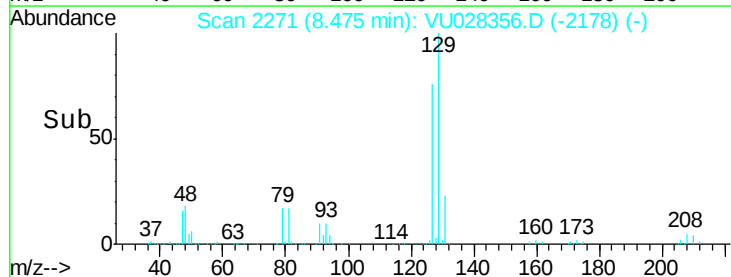
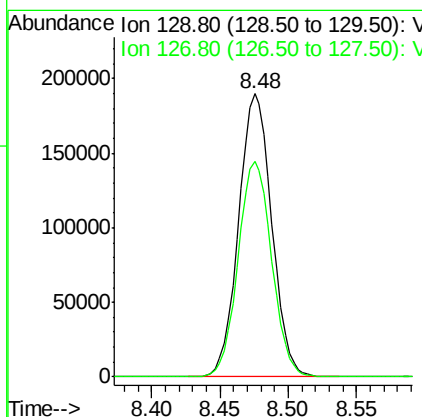
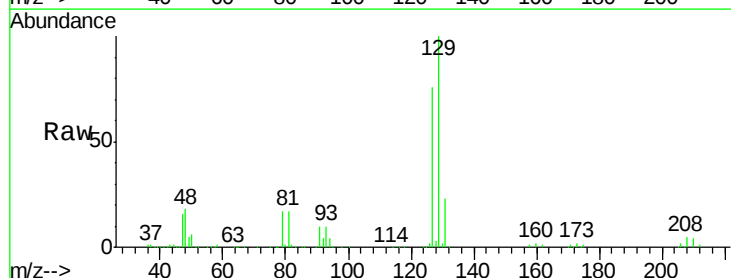
Manual Integrations
APPROVED

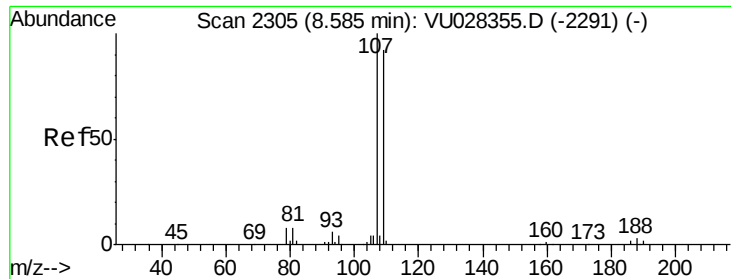
MMDadoda
11/29/2018 1:22:58 PM



#60
Dibromochloromethane
Concen: 104.832 ug/l
RT: 8.48 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VU028356.D
Acq: 28 Nov 2018 10:47

Tgt Ion: 129 Resp: 319932
Ion Ratio Lower Upper
129 100
127 77.3 38.9 116.7





#61

1,2-Dibromoethane

Concen: 105.820 ug/l

RT: 8.58 min Scan# 2305

Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC100

Tot Ion: 107 Resp: 347780

Ion Ratio Lower Upper

107 100

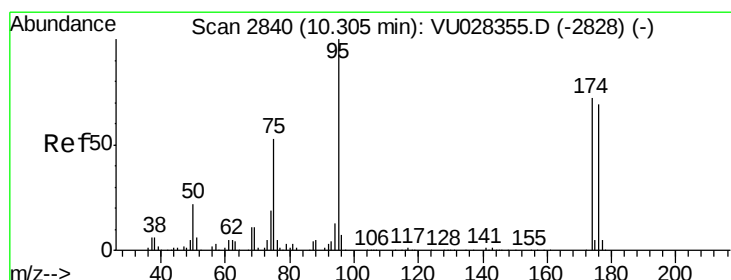
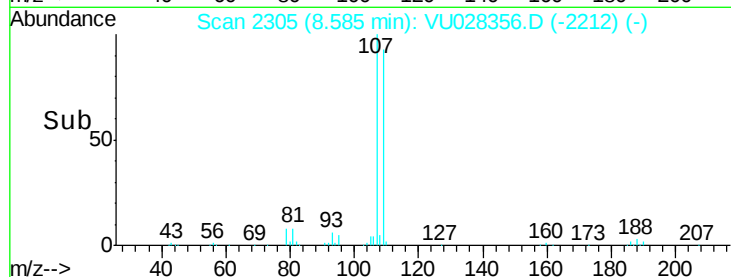
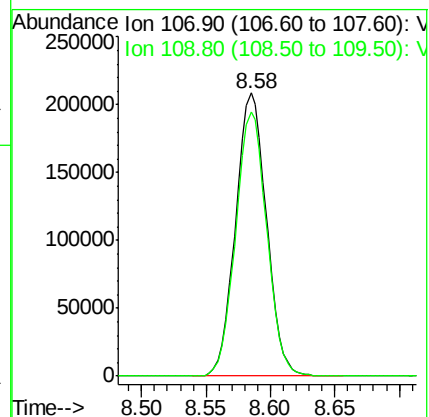
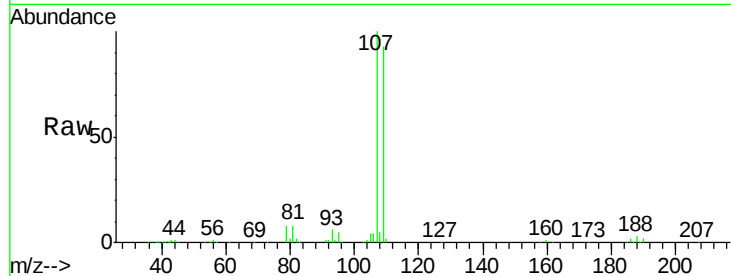
109 94.1 73.2 109.8

Manual Integrations

APPROVED

MMDadoda

11/29/2018 1:22:58 PM



#62

4-Bromofluorobenzene

Concen: 107.218 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

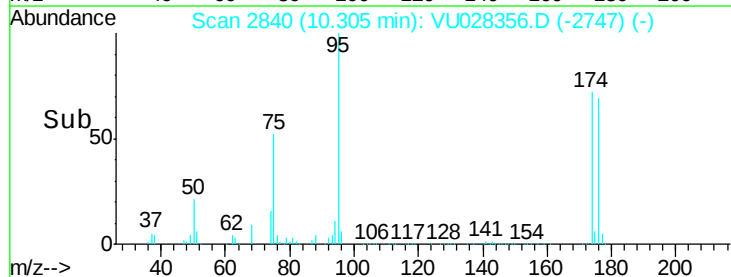
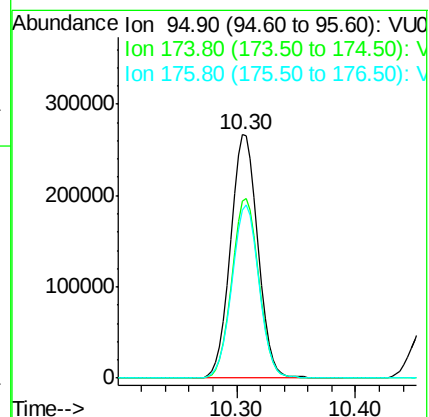
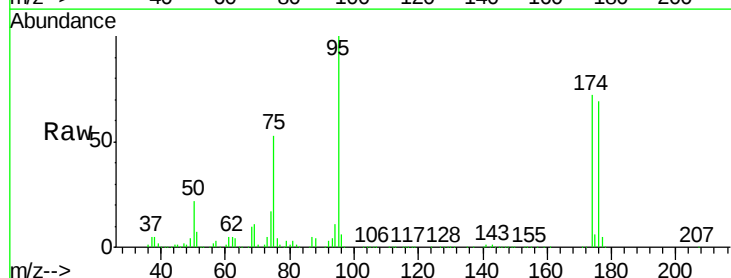
Tgt Ion: 95 Resp: 424564

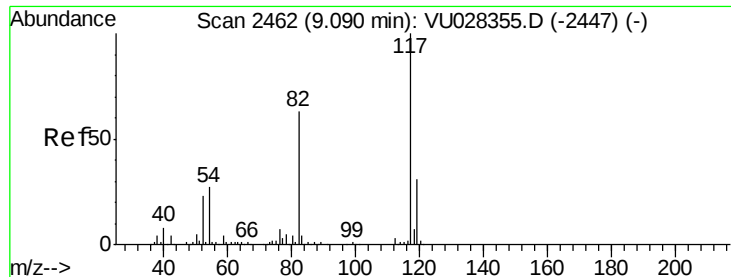
Ion Ratio Lower Upper

95 100

174 73.1 0.0 145.4

176 70.5 0.0 140.8





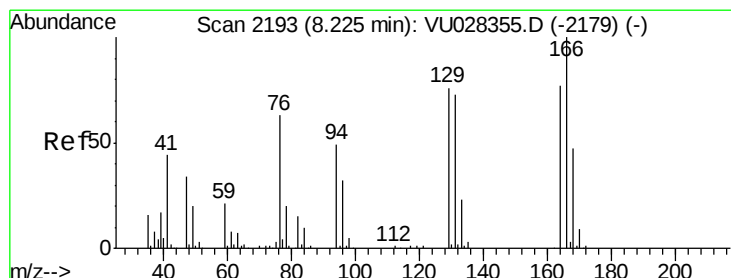
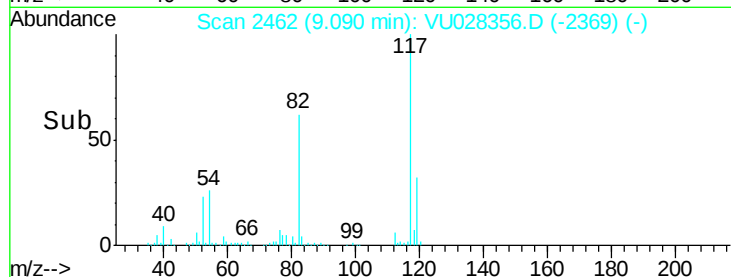
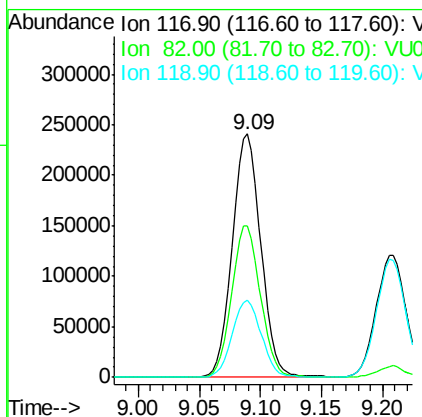
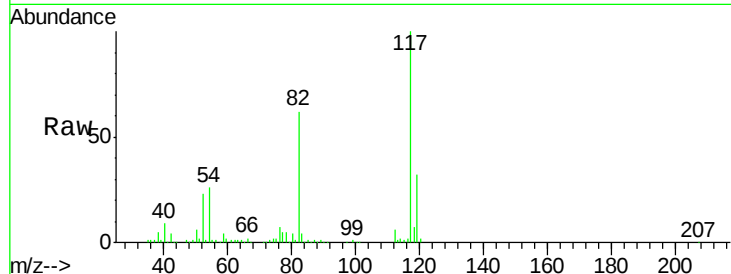
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. 0.00 min
Lab File: VU028356.D
Acq: 28 Nov 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
117	100		
82	62.0	50.3	75.5
119	31.6	24.8	37.2

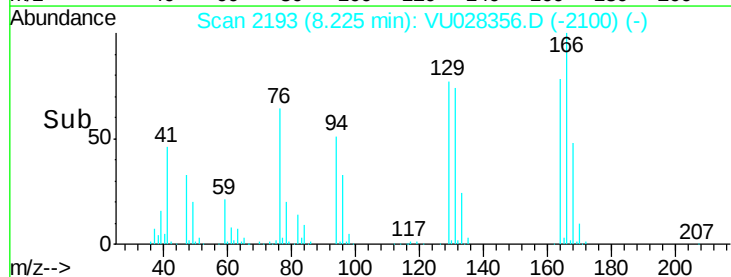
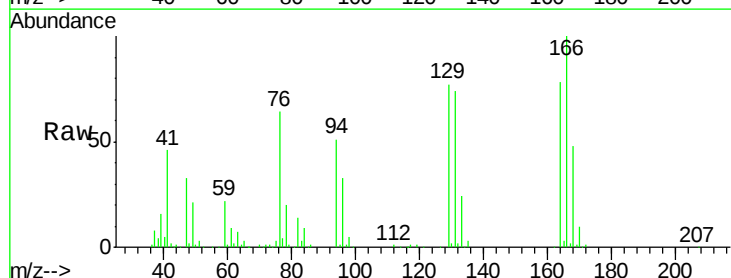
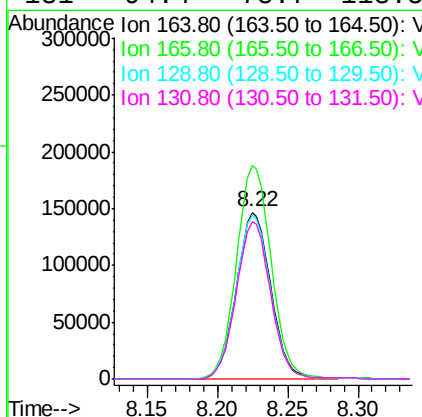
Manual Integrations
APPROVED

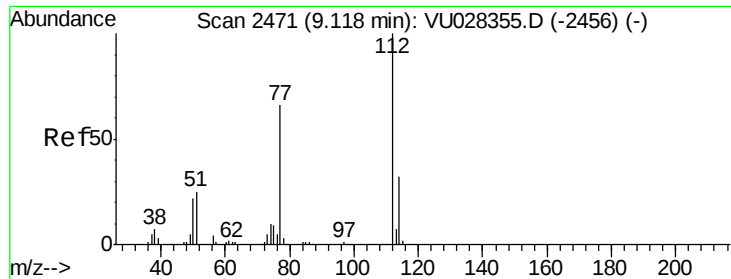
MMDadoda
11/29/2018 1:22:58 PM



#64
Tetrachloroethene
Concen: 97.503 ug/l
RT: 8.22 min Scan# 2193
Delta R.T. 0.00 min
Lab File: VU028356.D
Acq: 28 Nov 2018 10:47

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.9	104.0	156.0
129	98.5	79.2	118.8
131	94.4	75.7	113.5





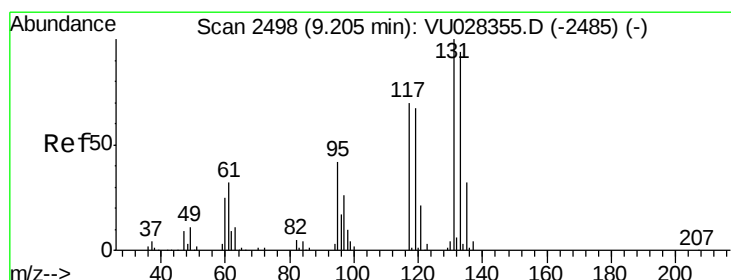
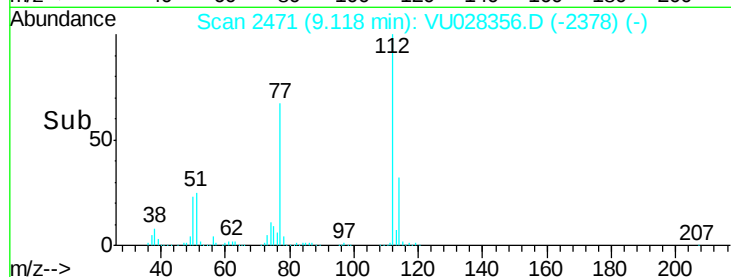
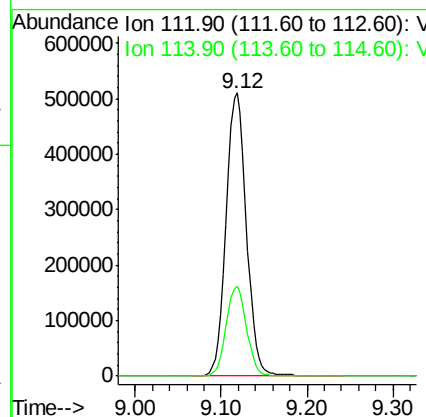
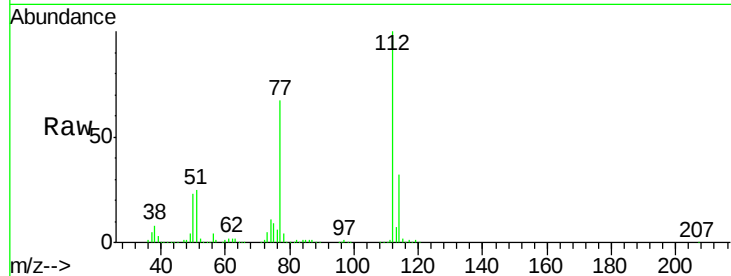
#65
Chlorobenzene
Concen: 102.703 ug/l
RT: 9.12 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VU028356.D
Acq: 28 Nov 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.7	25.7	38.5

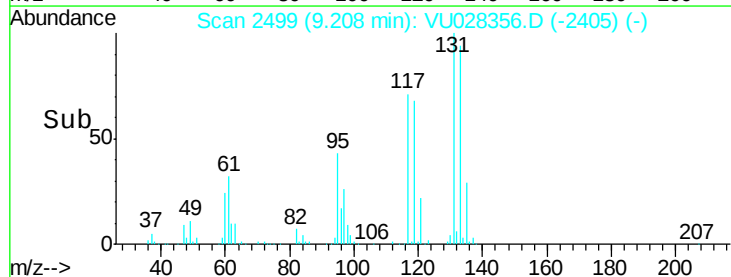
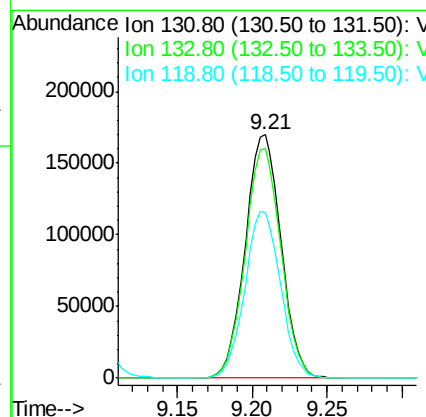
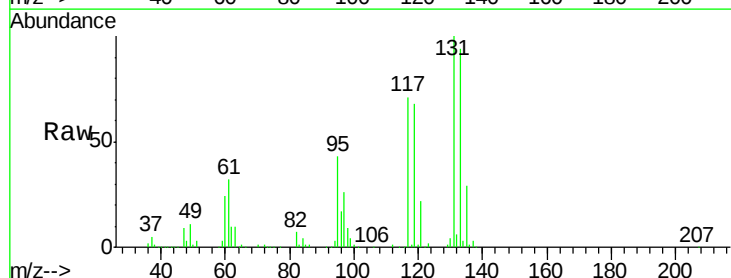
Manual Integrations
APPROVED

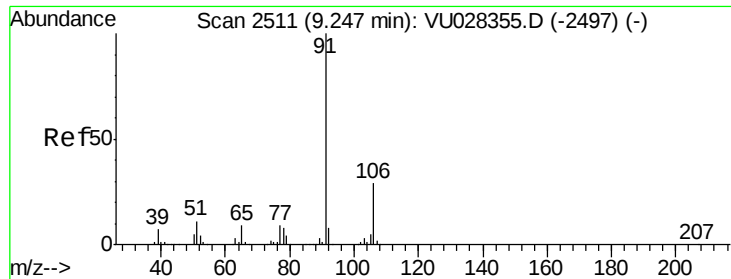
MMDadoda
11/29/2018 1:22:58 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 101.431 ug/l
RT: 9.21 min Scan# 2499
Delta R.T. 0.00 min
Lab File: VU028356.D
Acq: 28 Nov 2018 10:47

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.2	47.3	141.8
119	67.8	34.1	102.2





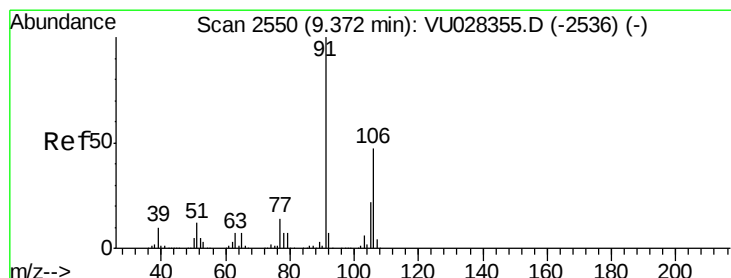
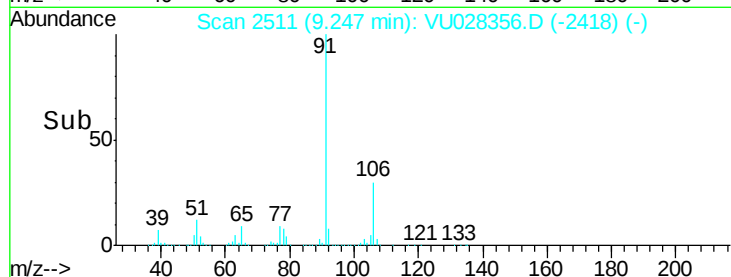
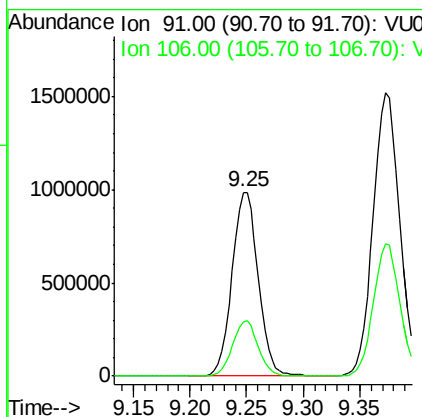
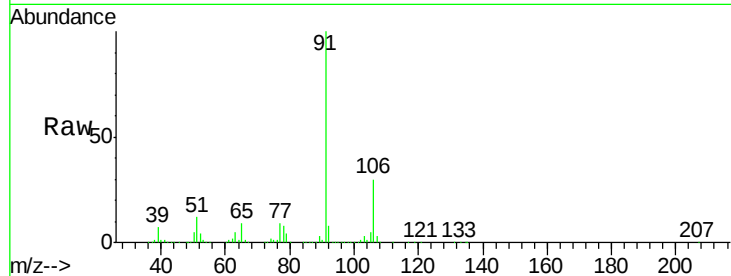
#67
Ethyl Benzene
Concen: 103.766 ug/l
RT: 9.25 min Scan# 2511
Delta R.T. 0.00 min
Lab File: VU028356.D
Acq: 28 Nov 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC100

Tot Ion: 91 Resp: 1595806
Ion Ratio Lower Upper
91 100
106 29.9 23.3 34.9

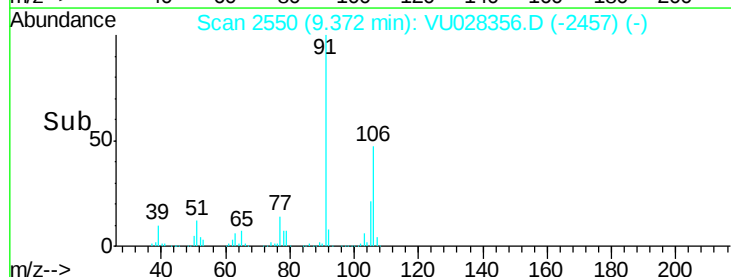
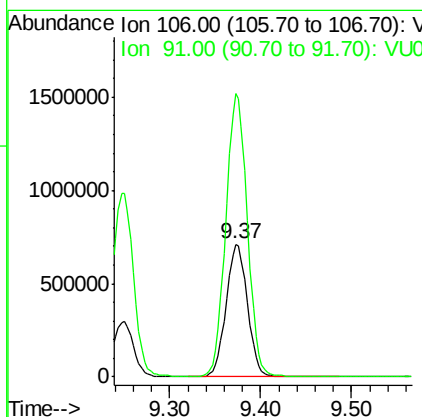
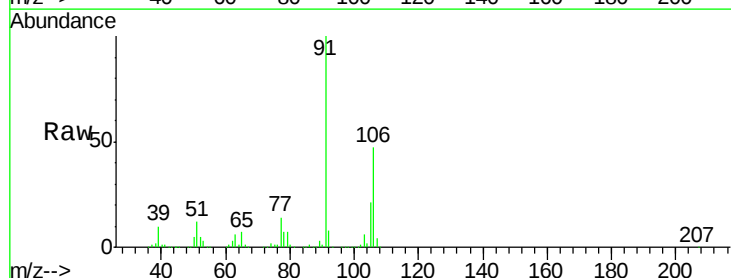
Manual Integrations
APPROVED

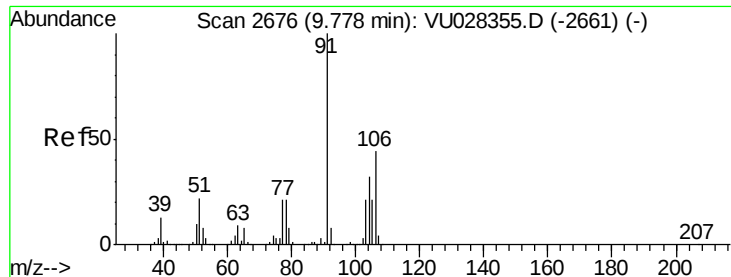
MMDadoda
11/29/2018 1:22:58 PM



#68
m/p-Xylenes
Concen: 210.370 ug/l
RT: 9.37 min Scan# 2550
Delta R.T. 0.00 min
Lab File: VU028356.D
Acq: 28 Nov 2018 10:47

Tgt Ion: 106 Resp: 1164473
Ion Ratio Lower Upper
106 100
91 214.2 171.0 256.6





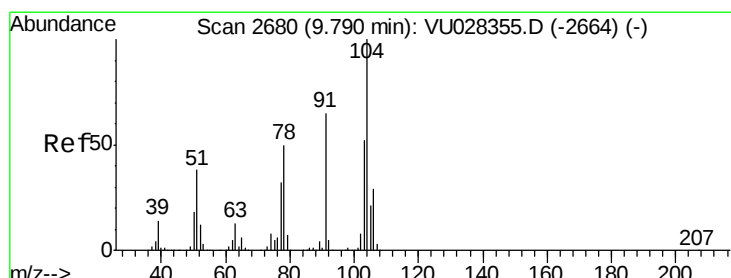
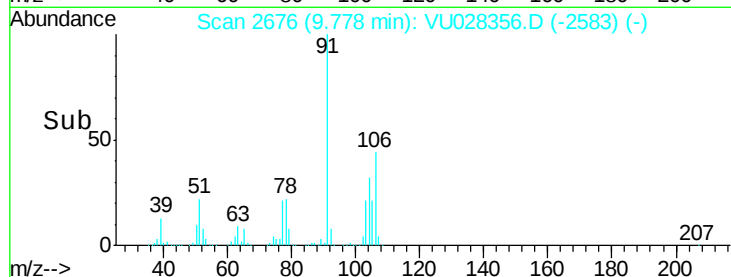
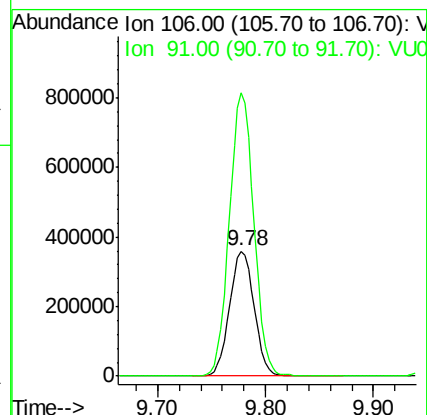
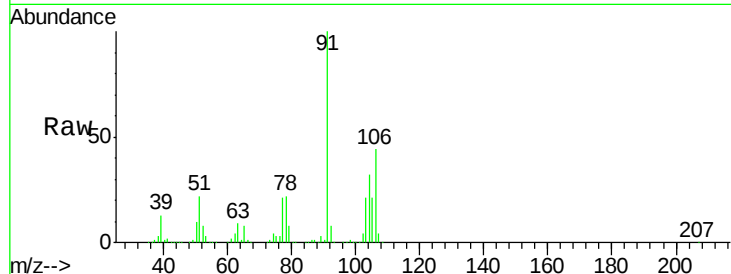
#69
o-Xylene
Concen: 103.241 ug/l
RT: 9.78 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VU028356.D
Acq: 28 Nov 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
106	100		
91	225.8	112.7	338.0

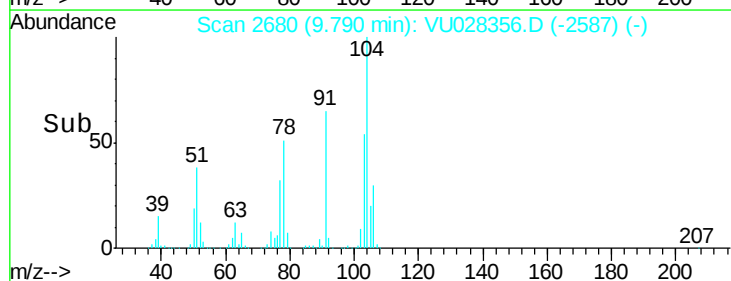
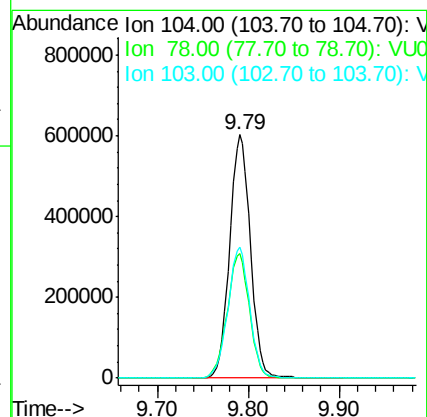
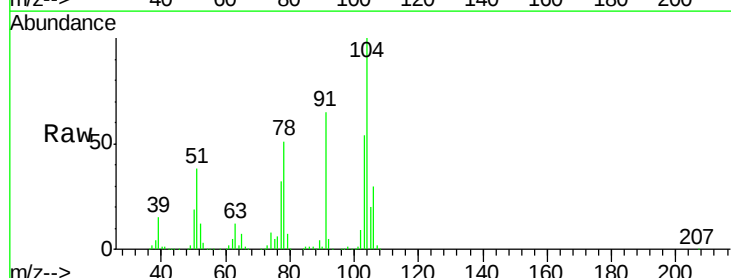
Manual Integrations
APPROVED

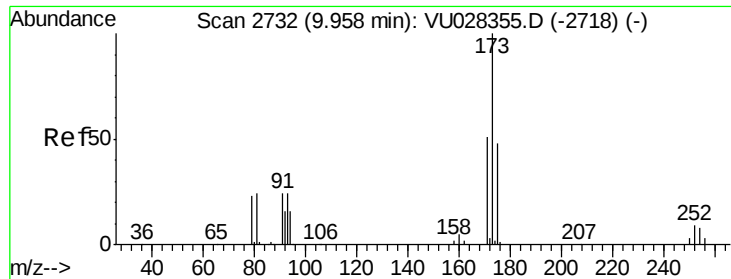
MMDadoda
11/29/2018 1:22:58 PM



#70
Styrene
Concen: 107.701 ug/l
RT: 9.79 min Scan# 2680
Delta R.T. 0.00 min
Lab File: VU028356.D
Acq: 28 Nov 2018 10:47

Tgt Ion	Ratio	Lower	Upper
104	100		
78	54.9	43.3	64.9
103	56.5	44.8	67.2





#71

Bromoform

Concen: 106.396 ug/l

RT: 9.96 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC100

Tot Ion:173 Resp: 250300

Ion Ratio Lower Upper

173 100

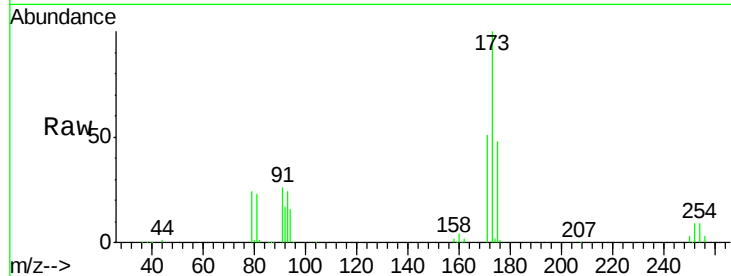
175 47.7 24.1 72.4

254 0.0 0.0 0.0#

Manual Integrations
APPROVED

MMDadoda

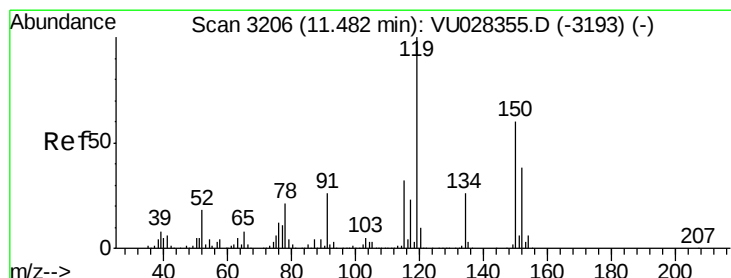
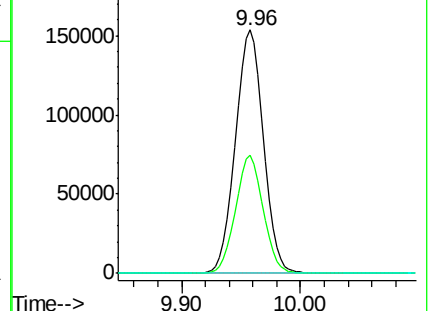
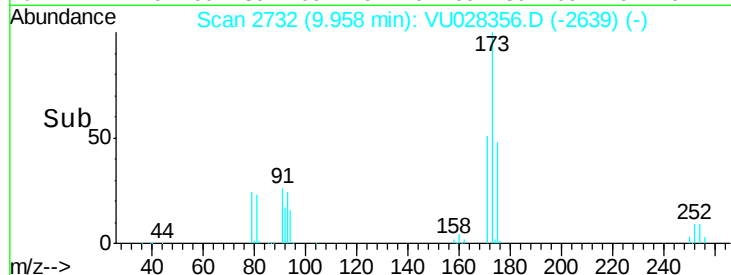
11/29/2018 1:22:58 PM



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

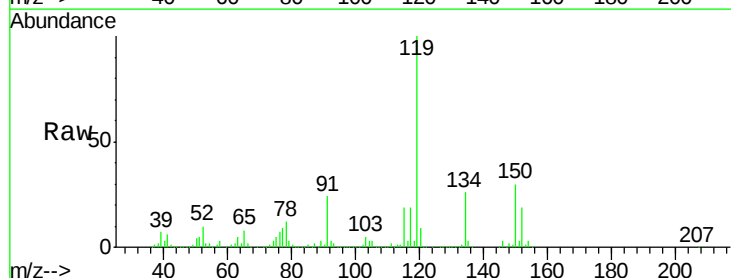
Tgt Ion:152 Resp: 199200

Ion Ratio Lower Upper

152 100

115 114.7 45.0 134.8

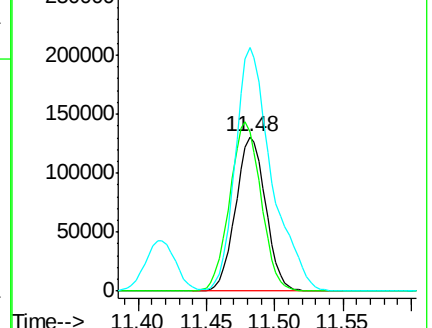
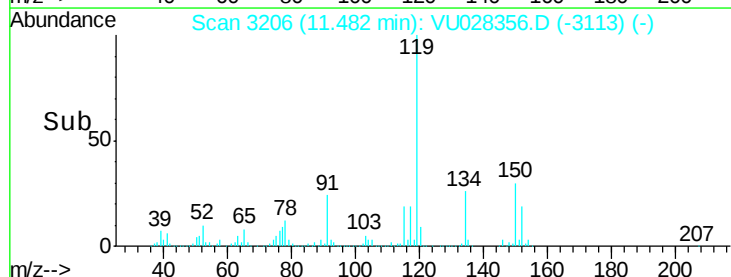
150 192.0 0.0 349.2

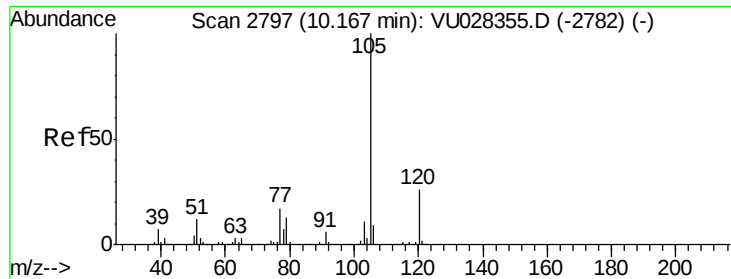


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 98.584 ug/l

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC100

Tot Ion:105 Resp: 1527343

Ion Ratio Lower Upper

105 100

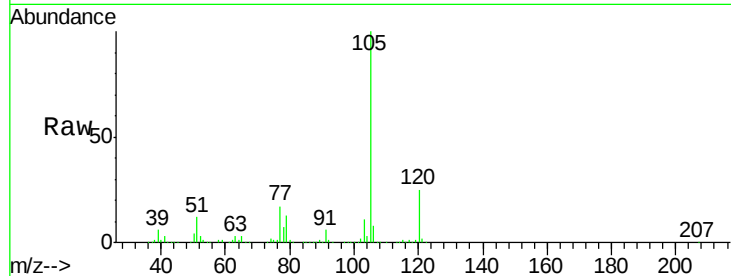
120 25.4 12.8 38.3

Manual Integrations

APPROVED

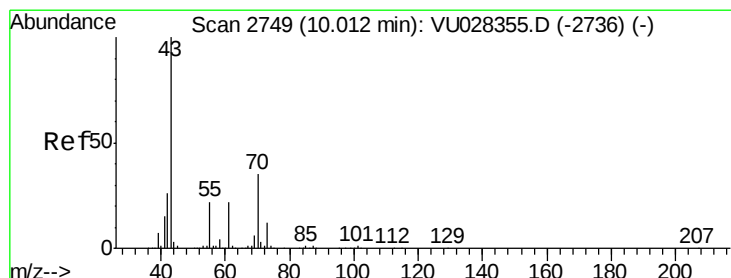
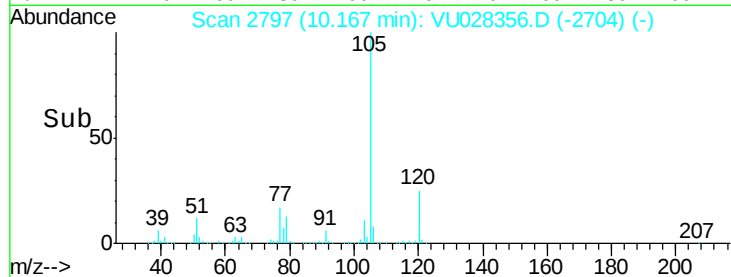
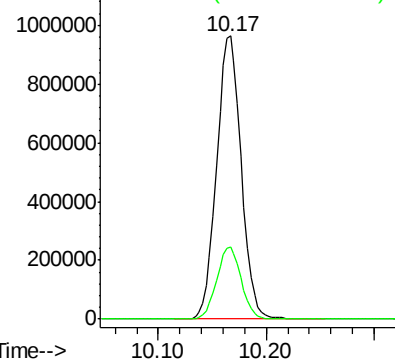
MMDadoda

11/29/2018 1:22:58 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 101.209 ug/l

RT: 10.01 min Scan# 2749

Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Tgt Ion: 43 Resp: 982419

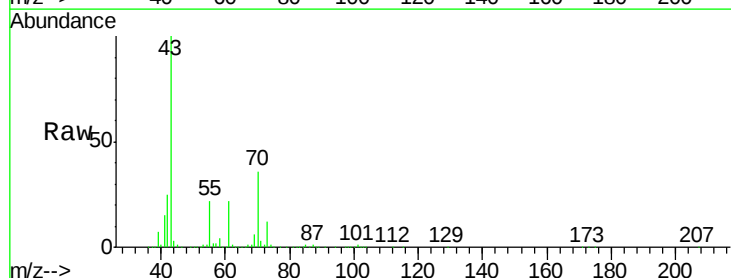
Ion Ratio Lower Upper

43 100

70 35.9 28.4 42.6

55 22.3 18.0 27.0

61 22.5 17.6 26.4

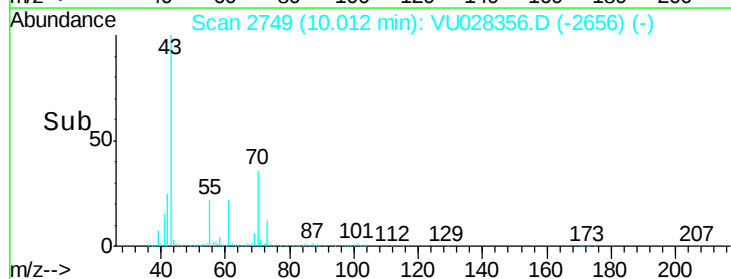
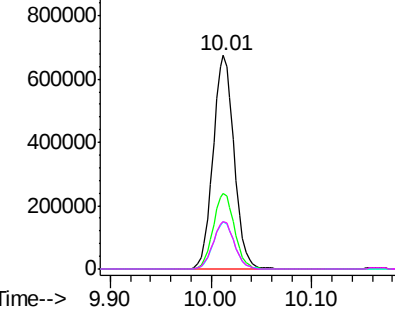


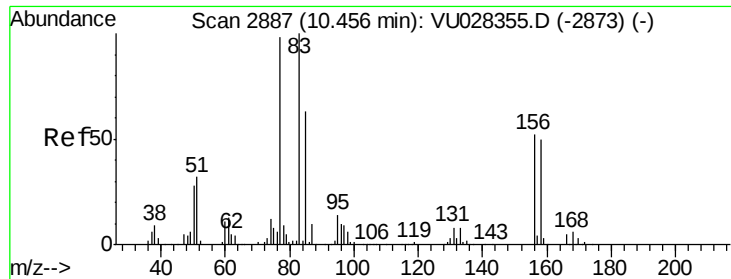
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0





#75

1,1,2,2-Tetrachloroethane

Concen: 97.307 ug/l

RT: 10.46 min Scan# 2887

Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Instrument :

MSVOA_U

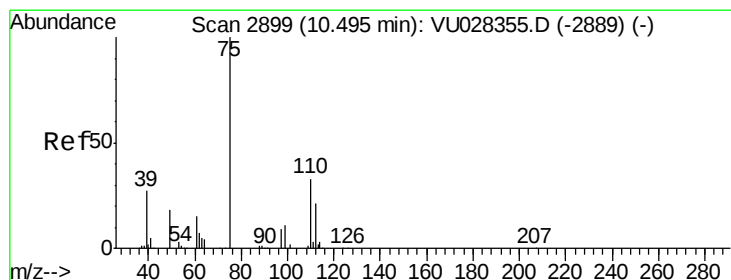
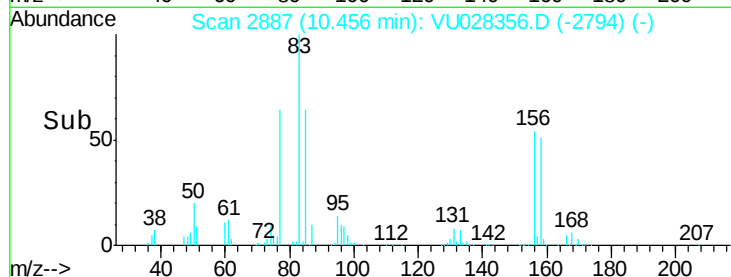
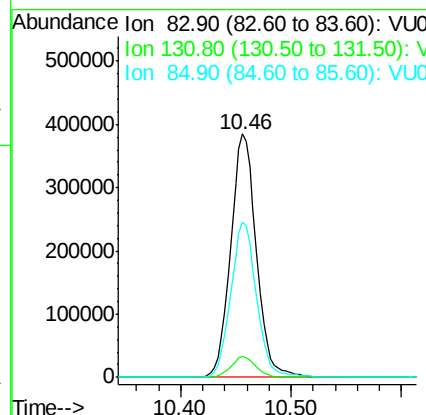
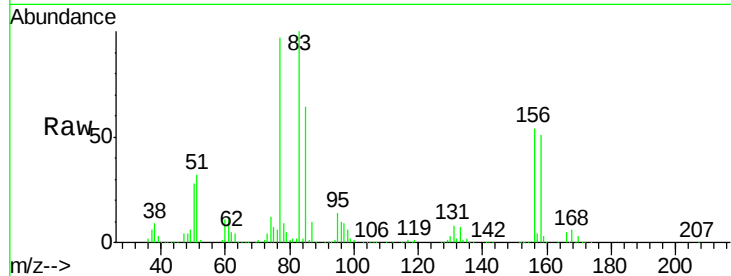
ClientSampleId :

VSTDICC100

Tot Ion:	83	Resp:	619946
Ion Ratio	Lower	Upper	
83	100		
131	8.2	4.0	12.2
85	64.2	31.8	95.4

Manual Integrations
APPROVED

MMDadoda
11/29/2018 1:22:58 PM



#76

1,2,3-Trichloropropane

Concen: 93.177 ug/l m

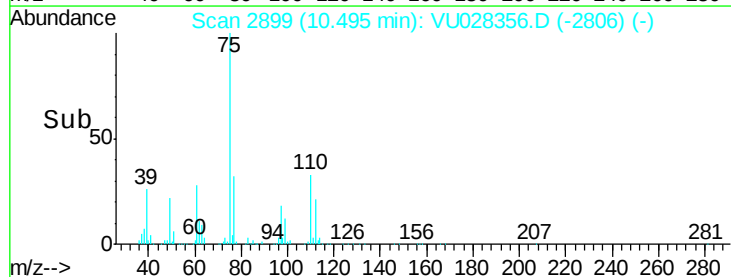
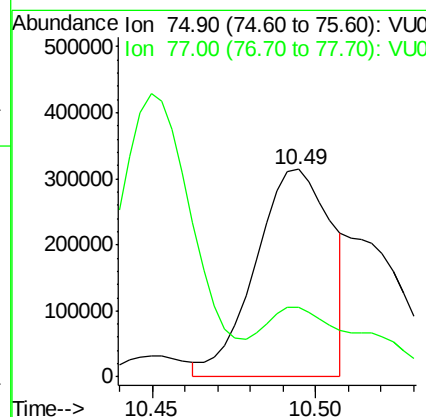
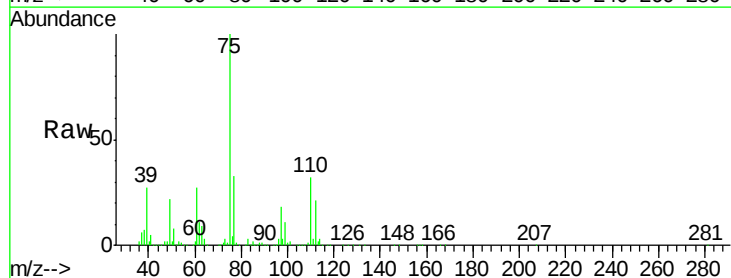
RT: 10.49 min Scan# 2899

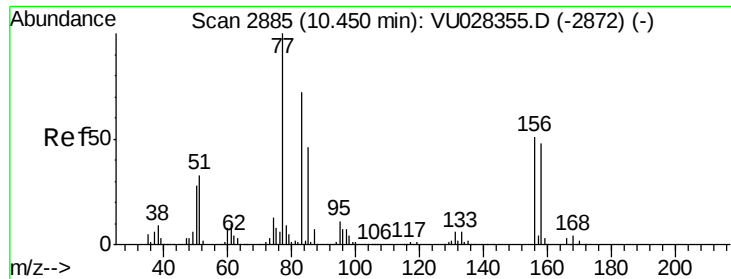
Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Tgt Ion:	75	Resp:	508185
Ion Ratio	Lower	Upper	
75	100		
77	45.9	22.4	67.0





#77

Bromobenzene

Concen: 98.436 ug/l

RT: 10.45 min Scan# 2886

Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Instrument :

MSVOA_U

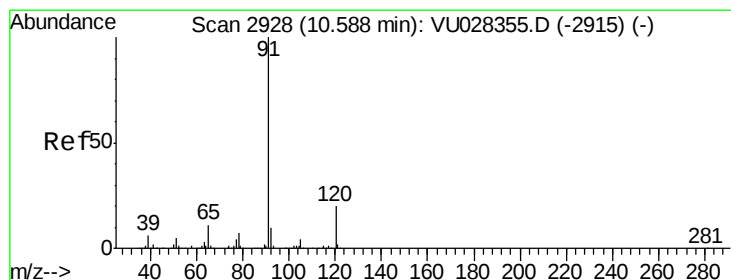
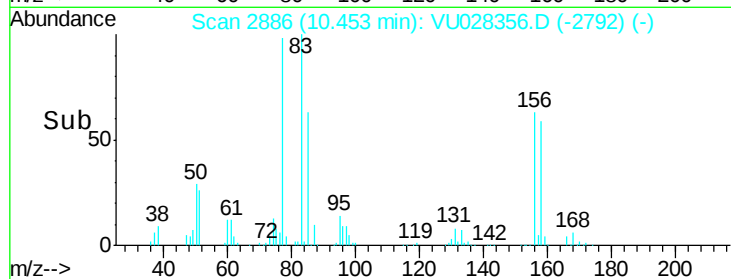
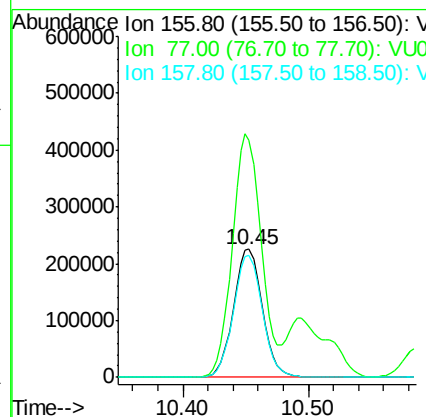
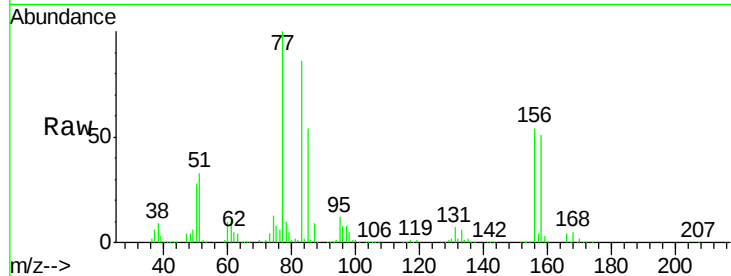
ClientSampleId :

VSTDICC100

Tot Ion	Ratio	Resp	Lower	Upper
156	100	359347		
77	192.9		97.0	290.9
158	96.0		46.8	140.4

Manual Integrations
APPROVED

MMDadoda
11/29/2018 1:22:58 PM



#78

n-propylbenzene

Concen: 100.655 ug/l

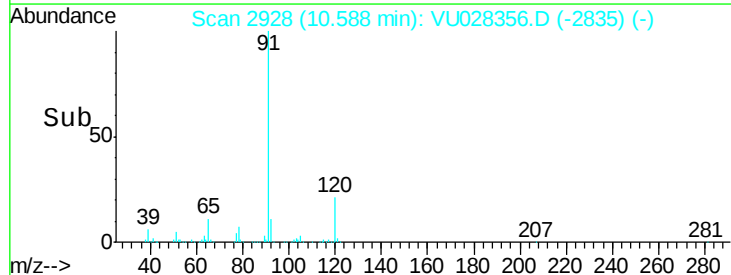
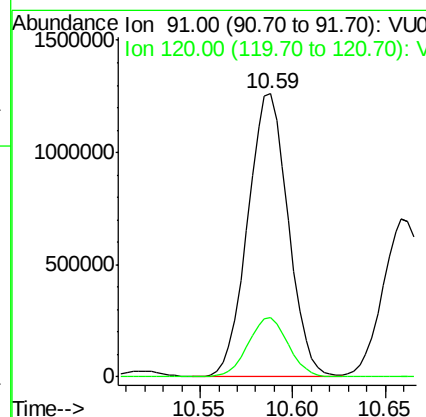
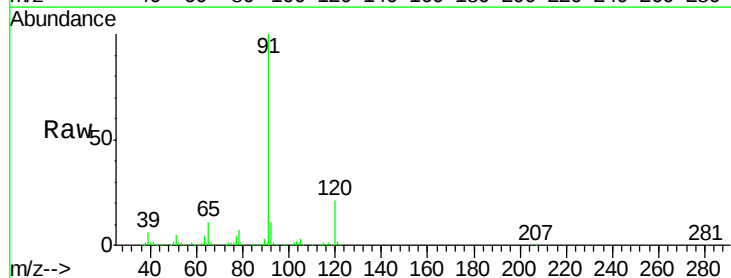
RT: 10.59 min Scan# 2928

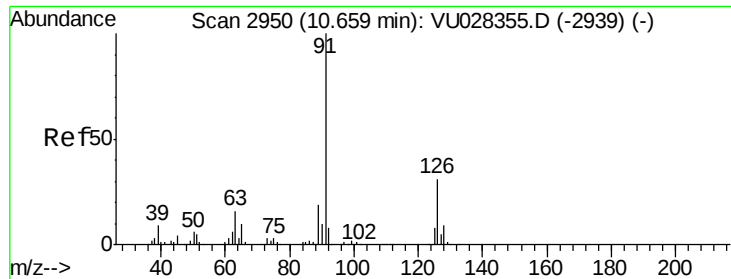
Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	1923759		
120	20.7		10.3	30.8





#79

2-Chlorotoluene

Concen: 97.762 ug/l

RT: 10.66 min Scan# 2950

Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC100

Tot Ion: 91 Resp: 1101472

Ion Ratio Lower Upper

91 100

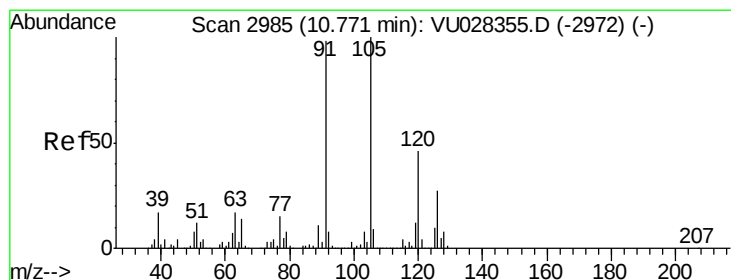
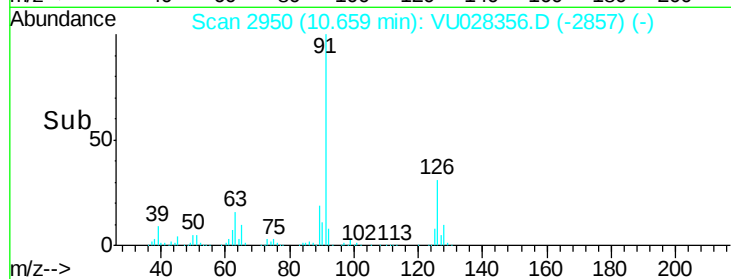
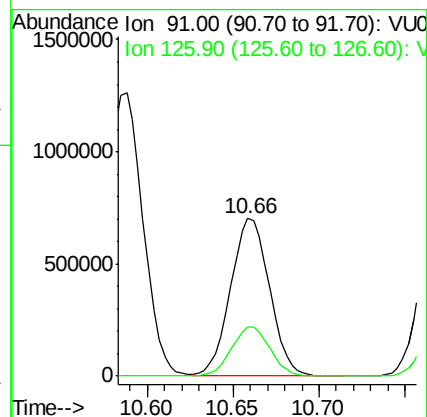
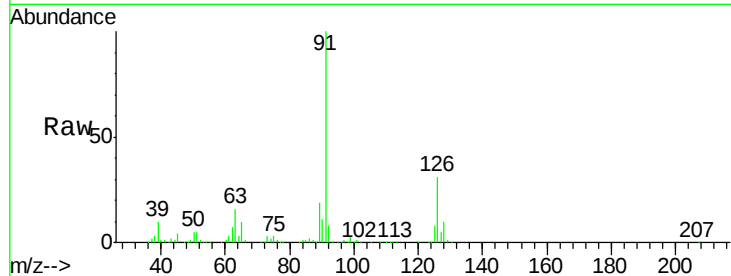
126 31.2 15.4 46.1

Manual Integrations

APPROVED

MMDadoda

11/29/2018 1:22:58 PM



#80

1,3,5-Trimethylbenzene

Concen: 100.103 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. 0.00 min

Lab File: VU028356.D

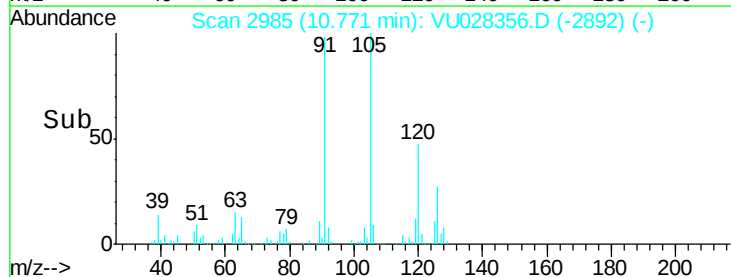
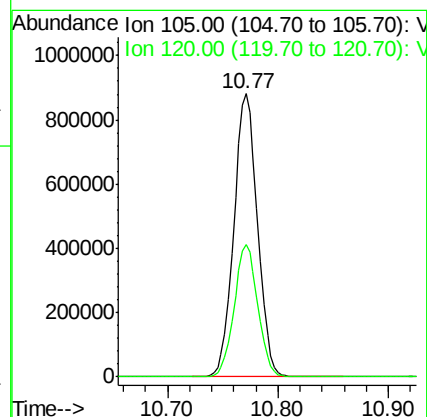
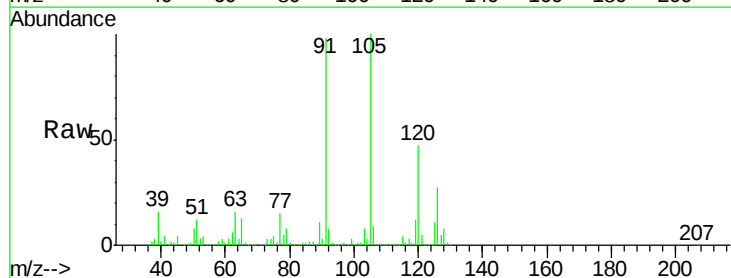
Acq: 28 Nov 2018 10:47

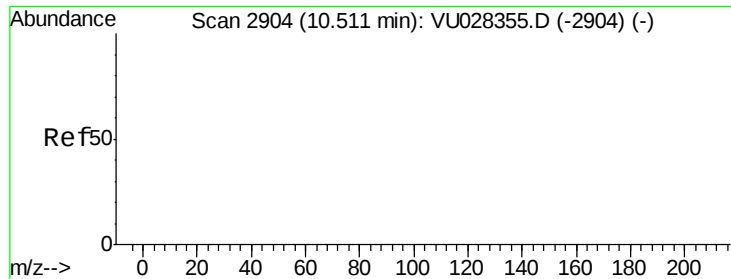
Tgt Ion: 105 Resp: 1306916

Ion Ratio Lower Upper

105 100

120 46.6 23.4 70.0





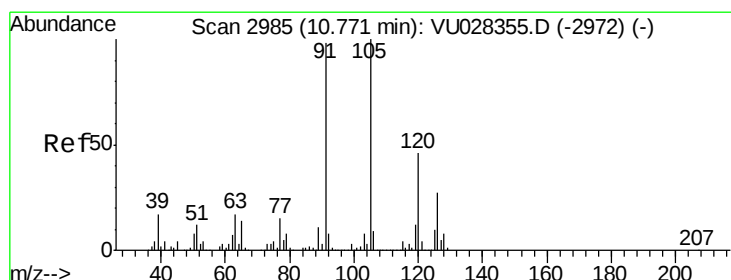
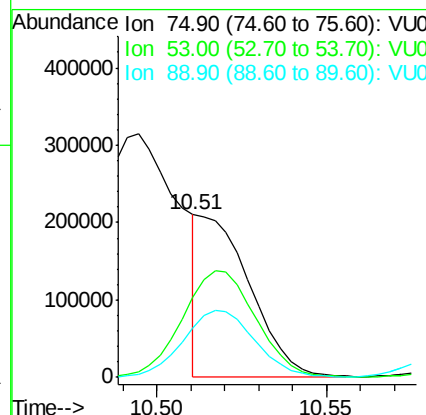
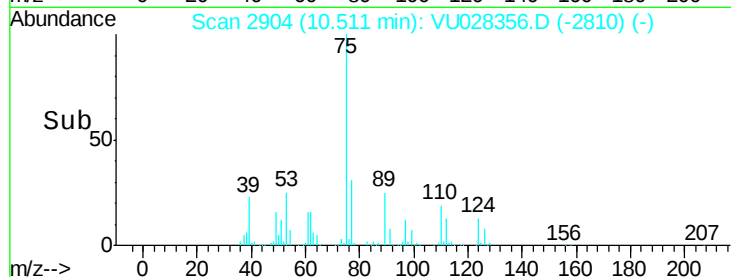
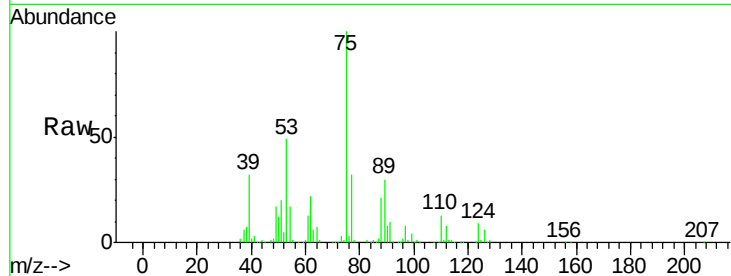
#81
trans-1,4-Dichloro-2-butene
Concen: 81.028 ug/l m
RT: 10.51 min Scan# 2904
Delta R.T. 0.00 min
Lab File: VU028356.D
Acq: 28 Nov 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC100

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

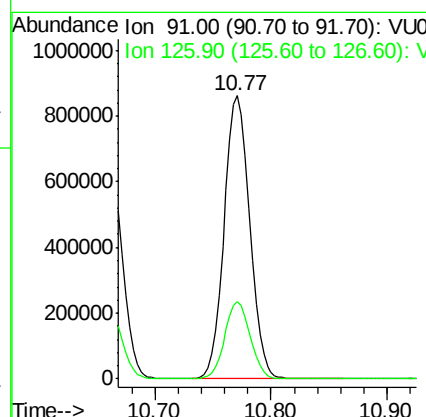
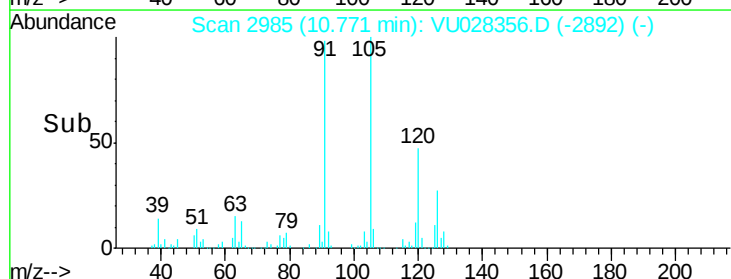
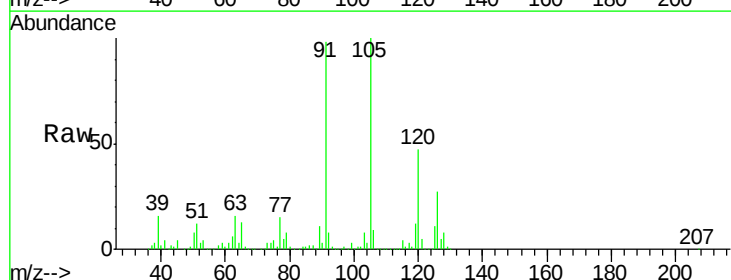
Manual Integrations
APPROVED

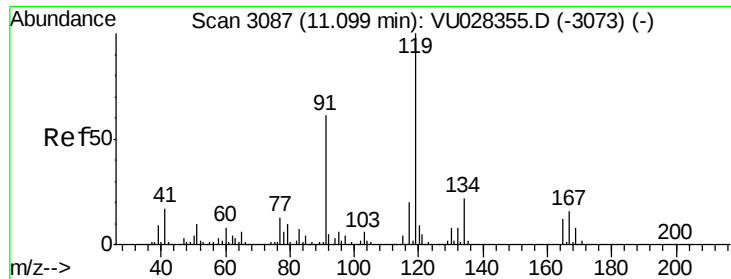
MMDadoda
11/29/2018 1:22:58 PM



#82
4-Chlorotoluene
Concen: 101.298 ug/l
RT: 10.77 min Scan# 2985
Delta R.T. 0.00 min
Lab File: VU028356.D
Acq: 28 Nov 2018 10:47

Tgt Ion	Ratio	Lower	Upper
91	100		
126	27.2	13.9	41.6





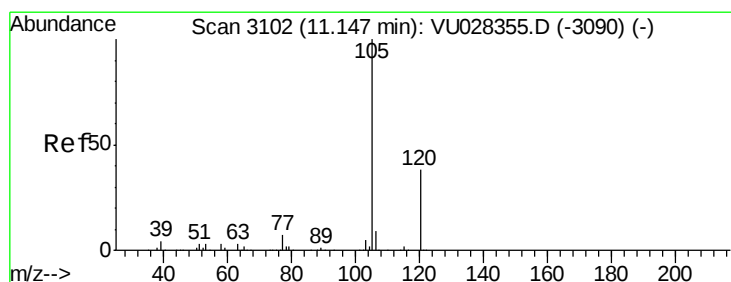
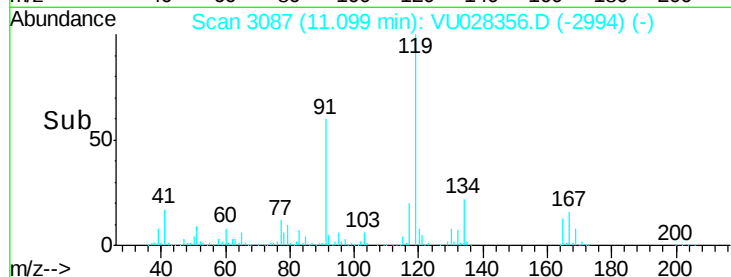
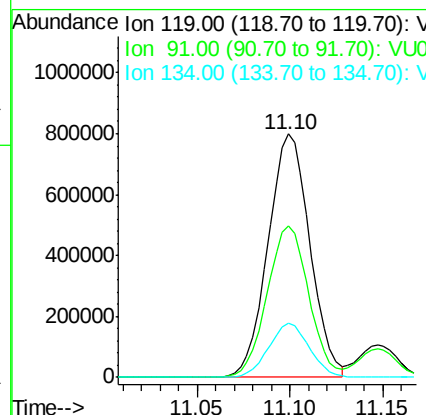
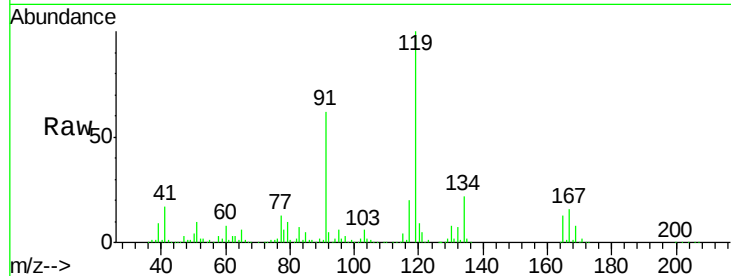
#83
tert-Butylbenzene
Concen: 103.178 ug/l
RT: 11.10 min Scan# 3087
Delta R.T. 0.00 min
Lab File: VU028356.D
Acq: 28 Nov 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
119	100		
91	61.9	30.8	92.4
134	21.6	11.1	33.1

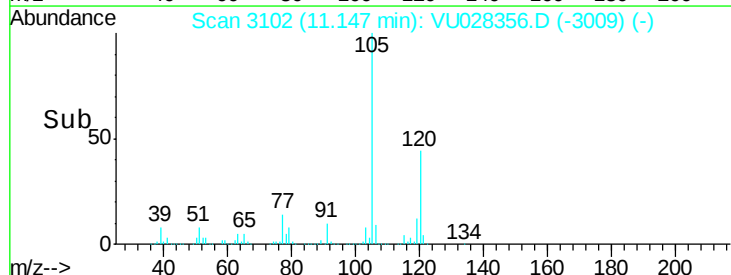
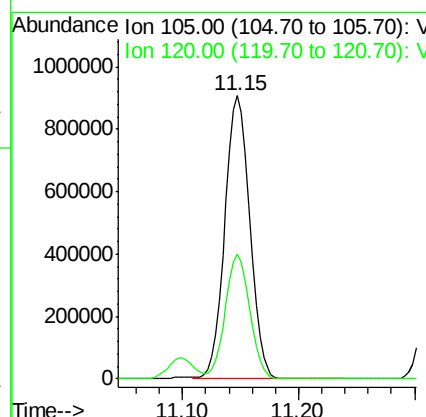
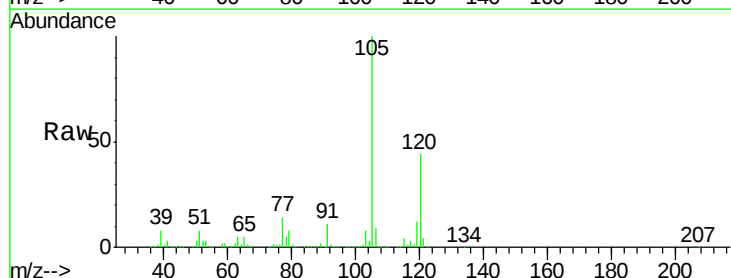
Manual Integrations
APPROVED

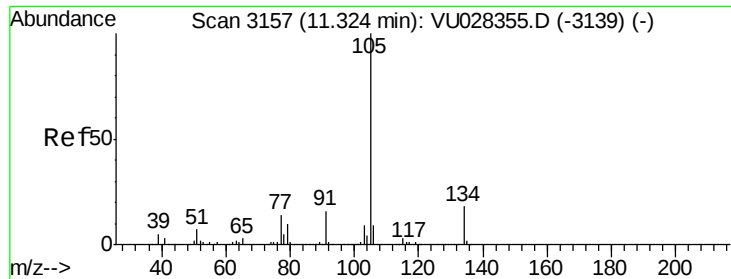
MMDadoda
11/29/2018 1:22:58 PM



#84
1,2,4-Trimethylbenzene
Concen: 102.084 ug/l
RT: 11.15 min Scan# 3102
Delta R.T. 0.00 min
Lab File: VU028356.D
Acq: 28 Nov 2018 10:47

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.4	21.4	64.3





#85

sec-Butylbenzene

Concen: 102.220 ug/l

RT: 11.32 min Scan# 3157

Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC100

Tot Ion:105 Resp: 1615859

Ion Ratio Lower Upper

105 100

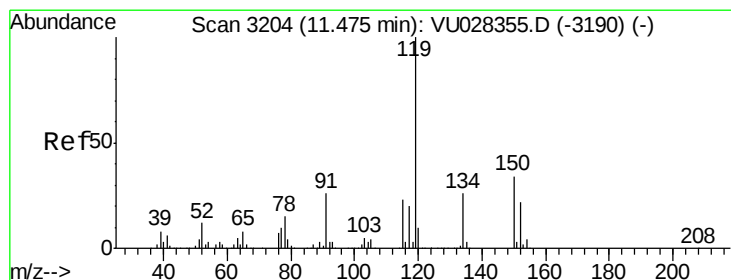
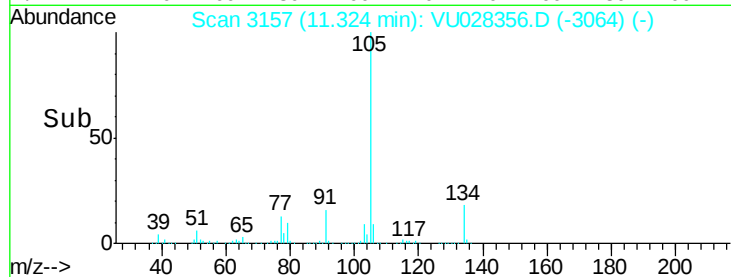
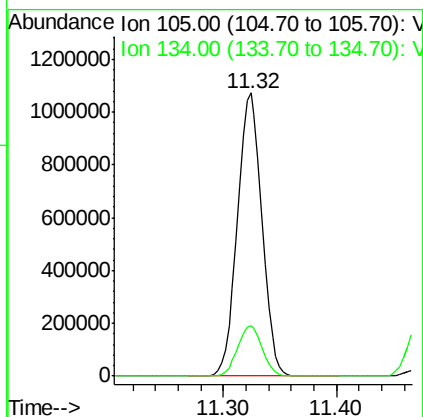
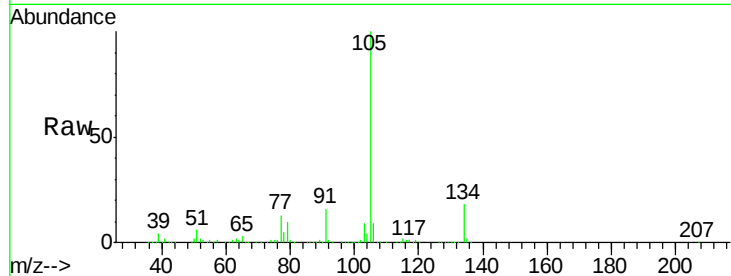
134 18.0 9.3 27.7

Manual Integrations

APPROVED

MMDadoda

11/29/2018 1:22:58 PM



#86

p-Isopropyltoluene

Concen: 104.365 ug/l

RT: 11.48 min Scan# 3204

Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

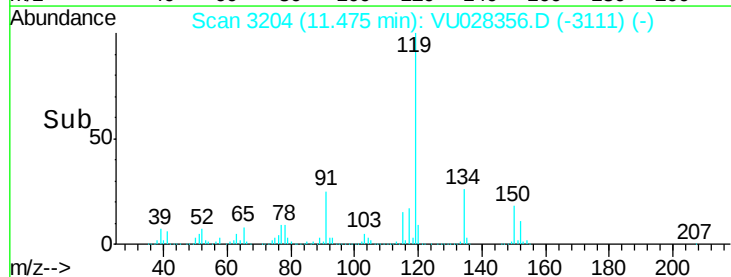
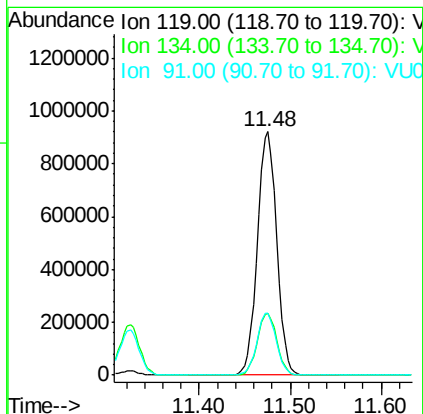
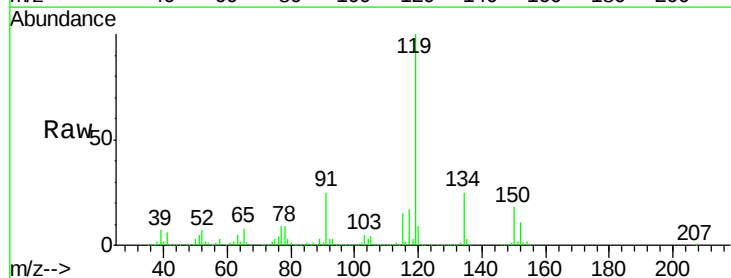
Tgt Ion:119 Resp: 1356520

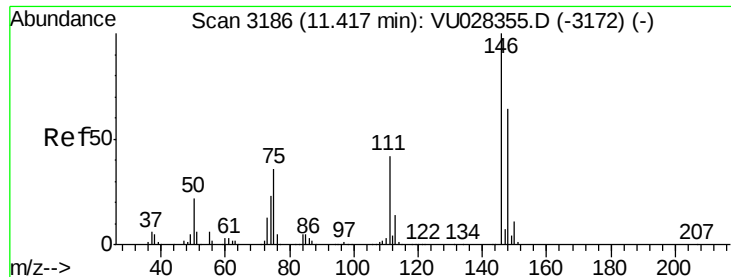
Ion Ratio Lower Upper

119 100

134 25.7 12.8 38.3

91 25.4 13.1 39.1





#87

1,3-Dichlorobenzene

Concen: 101.038 ug/l

RT: 11.41 min Scan# 3185

Delta R.T. -0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Instrument :

MSVOA_U

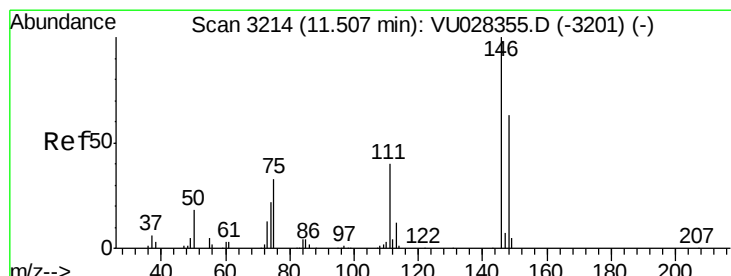
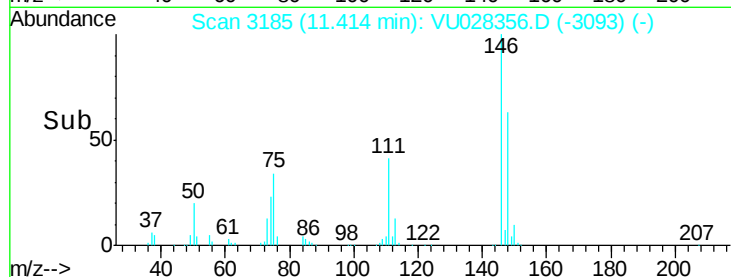
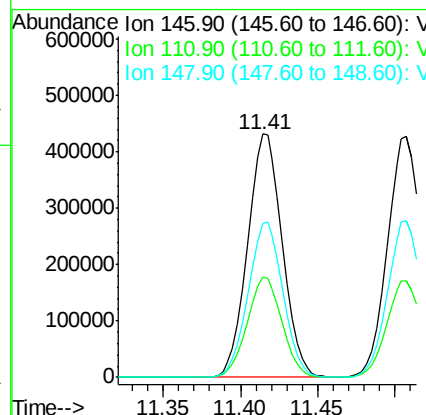
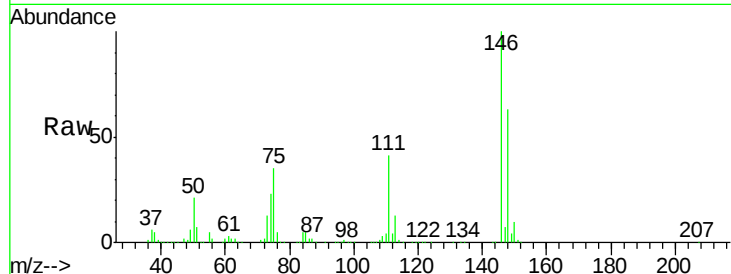
ClientSampleId :

VSTDIC100

Tot Ion:	146	Resp:	672737
Ion Ratio		Lower	Upper
146	100		
111	41.1	20.8	62.4
148	63.9	31.8	95.3

Manual Integrations
APPROVED

MMDadoda
11/29/2018 1:22:58 PM



#88

1,4-Dichlorobenzene

Concen: 99.719 ug/l

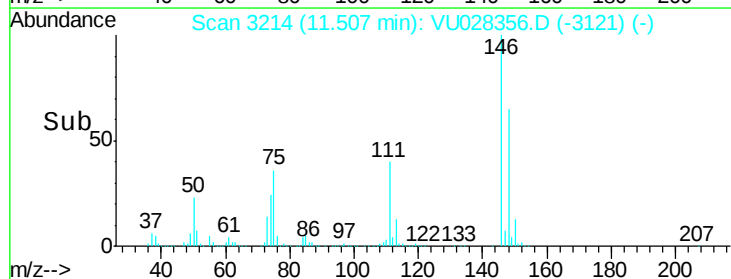
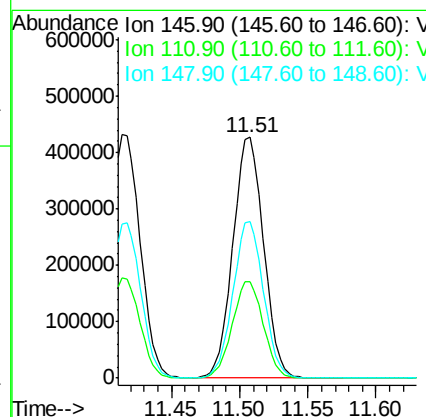
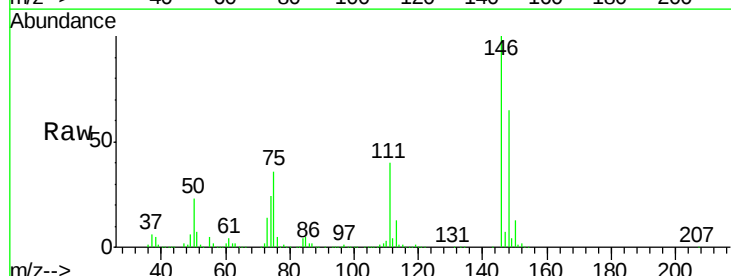
RT: 11.51 min Scan# 3214

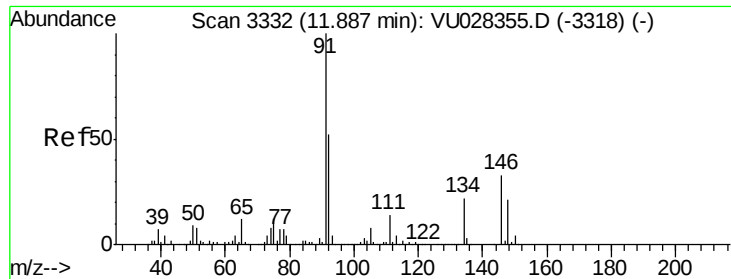
Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Tgt Ion:	146	Resp:	668208
Ion Ratio		Lower	Upper
146	100		
111	40.5	20.6	61.9
148	64.5	31.1	93.5





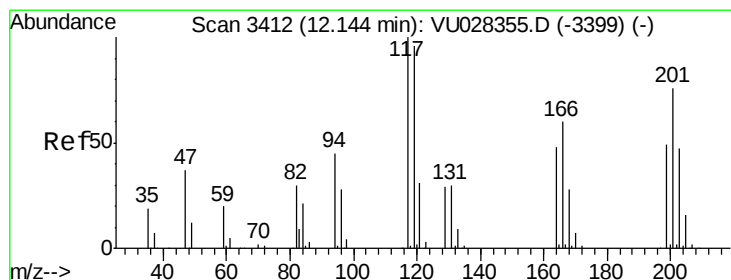
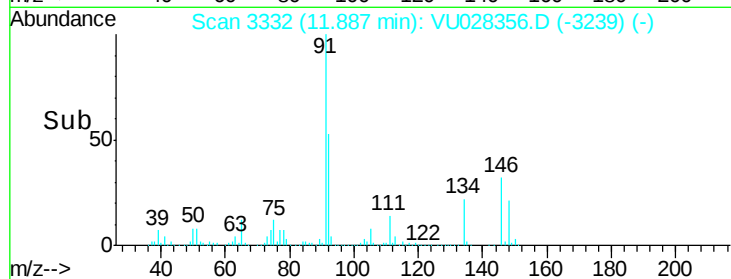
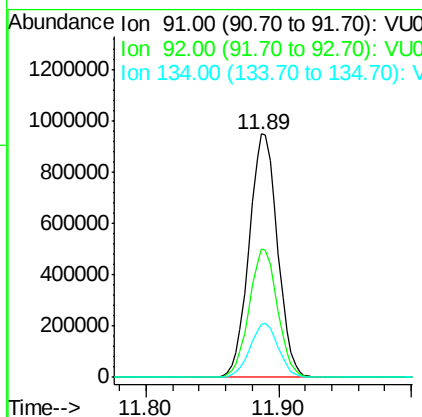
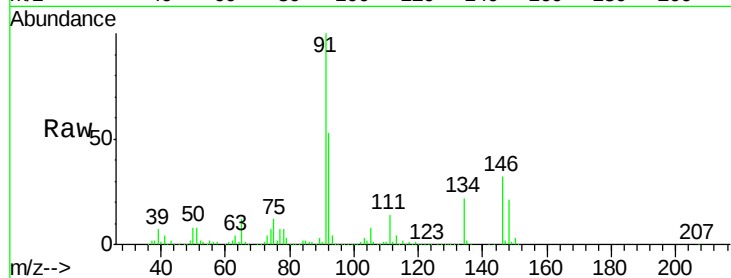
#89
n-Butylbenzene
Concen: 109.449 ug/l
RT: 11.89 min Scan# 3332
Delta R.T. 0.00 min
Lab File: VU028356.D
Acq: 28 Nov 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC100

Tot Ion: 91 Resp: 1404023
Ion Ratio Lower Upper
91 100
92 52.7 26.2 78.5
134 22.2 11.1 33.1

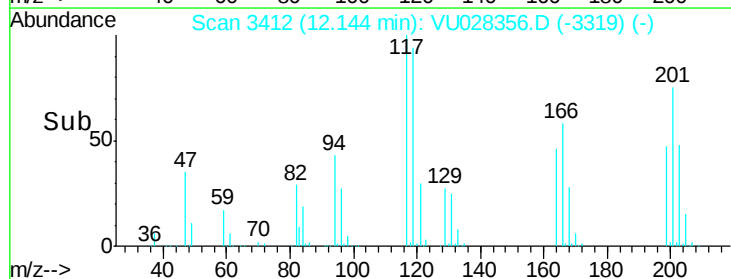
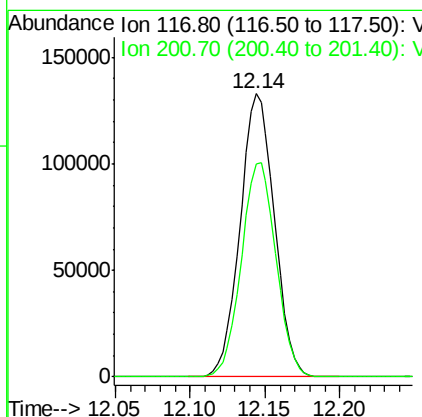
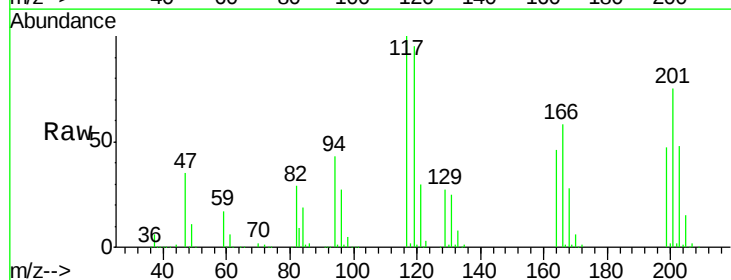
Manual Integrations
APPROVED

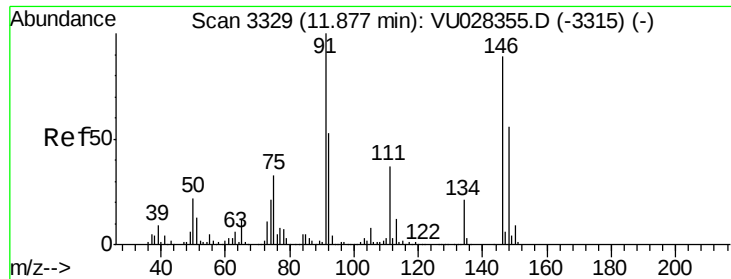
MMDadoda
11/29/2018 1:22:58 PM



#90
Hexachloroethane
Concen: 104.383 ug/l
RT: 12.14 min Scan# 3412
Delta R.T. 0.00 min
Lab File: VU028356.D
Acq: 28 Nov 2018 10:47

Tgt Ion: 117 Resp: 211820
Ion Ratio Lower Upper
117 100
201 76.6 37.7 113.1





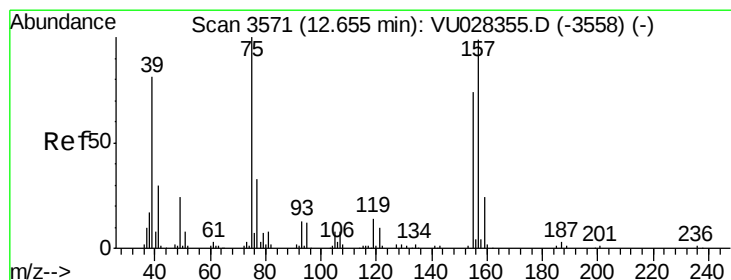
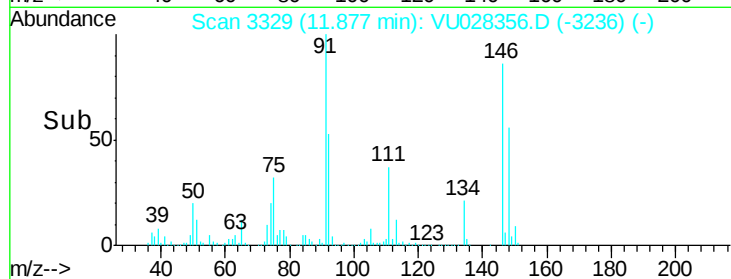
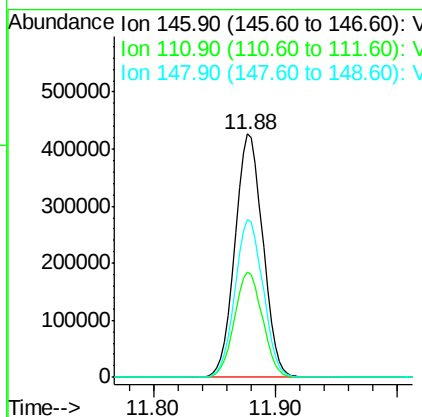
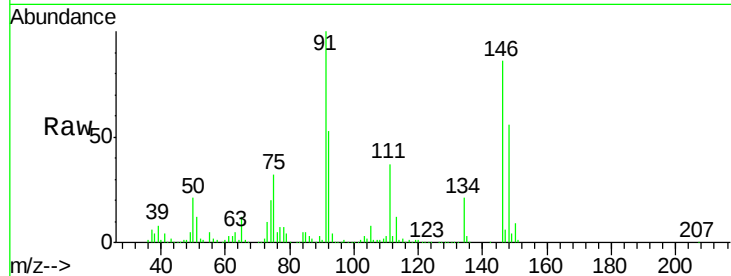
#91
1,2-Dichlorobenzene
Concen: 101.860 ug/l
RT: 11.88 min Scan# 3329
Delta R.T. 0.00 min
Lab File: VU028356.D
Acq: 28 Nov 2018 10:47

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.5	21.4	64.3
148	65.3	32.2	96.6

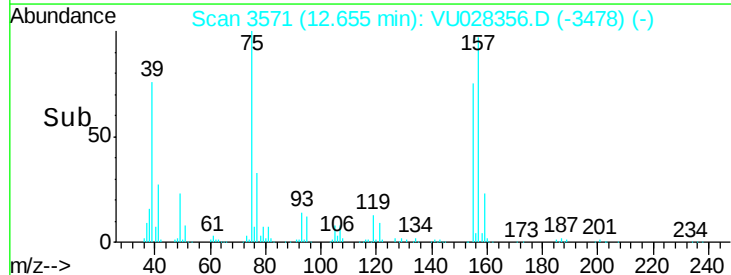
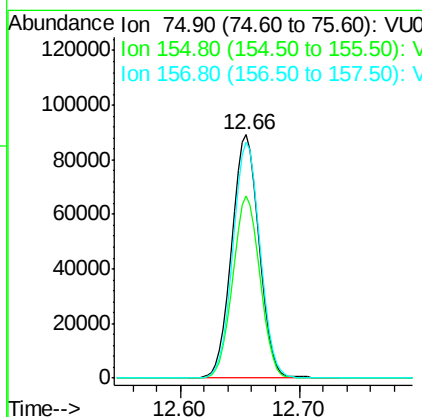
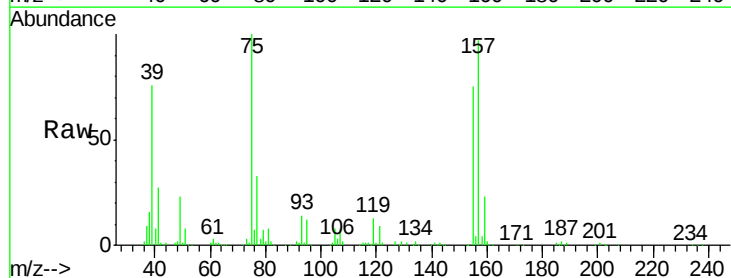
Manual Integrations
APPROVED

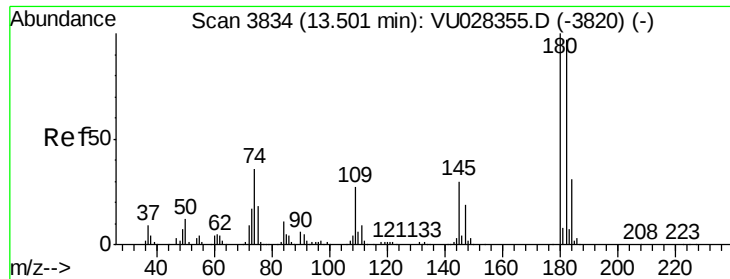
MMDadoda
11/29/2018 1:22:58 PM



#92
1,2-Dibromo-3-Chloropropane
Concen: 100.701 ug/l
RT: 12.66 min Scan# 3571
Delta R.T. 0.00 min
Lab File: VU028356.D
Acq: 28 Nov 2018 10:47

Tgt Ion	Ratio	Lower	Upper
75	100		
155	73.9	36.9	110.7
157	95.7	47.5	142.5





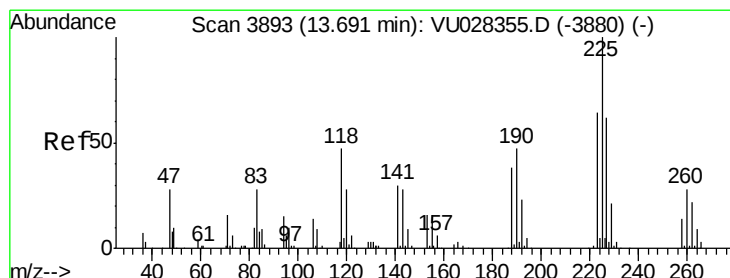
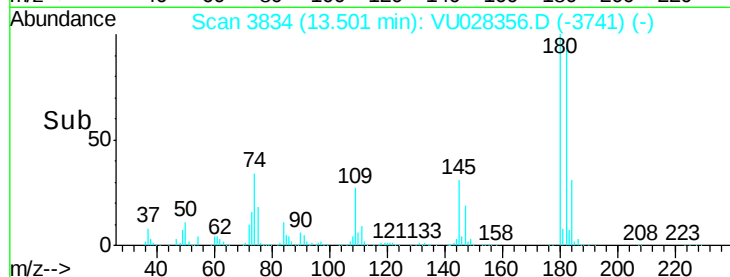
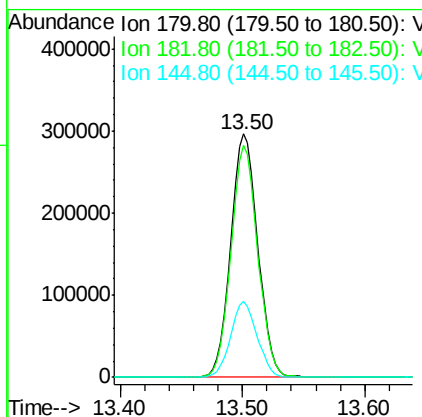
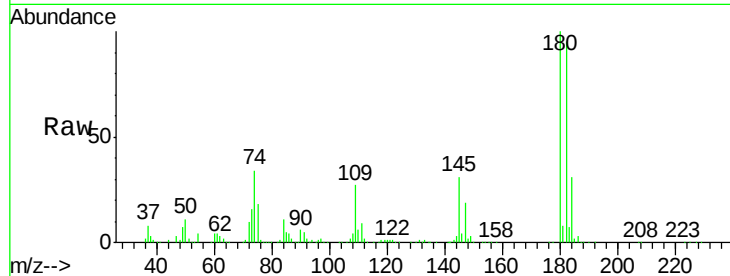
#93
 1,2,4-Trichlorobenzene
 Concen: 105.776 ug/l
 RT: 13.50 min Scan# 3834
 Delta R.T. 0.00 min
 Lab File: VU028356.D
 Acq: 28 Nov 2018 10:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
180	100	459945		
182	93.9	48.3	144.9	
145	30.5	15.2	45.5	

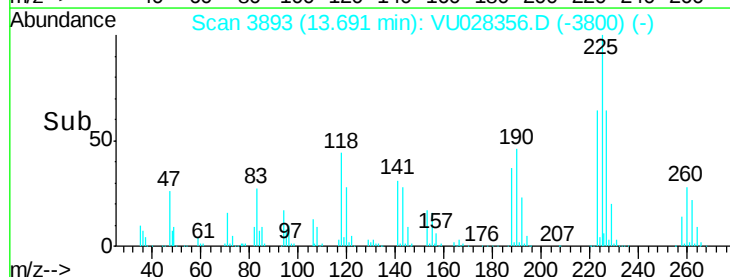
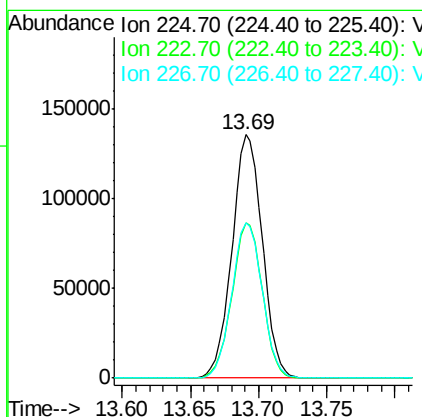
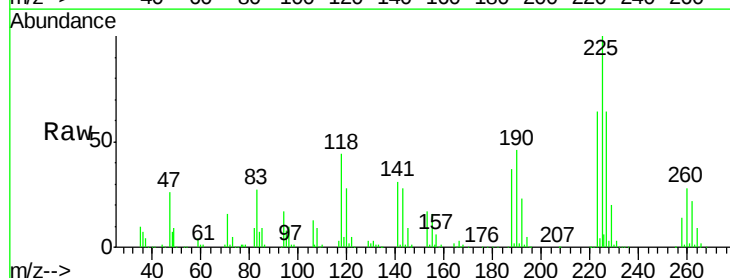
Manual Integrations
 APPROVED

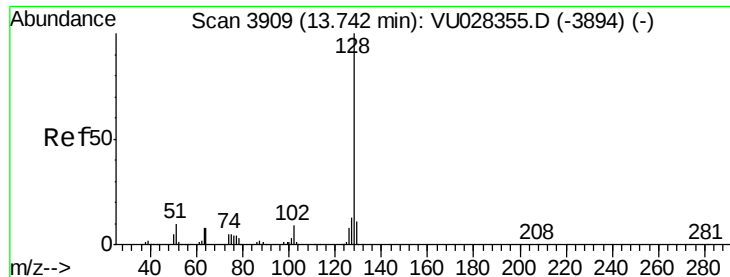
MMDadoda
 11/29/2018 1:22:58 PM



#94
 Hexachlorobutadiene
 Concen: 101.781 ug/l
 RT: 13.69 min Scan# 3893
 Delta R.T. 0.00 min
 Lab File: VU028356.D
 Acq: 28 Nov 2018 10:47

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	208981		
223	63.6	31.6	94.7	
227	64.2	30.8	92.4	





#95

Naphthalene

Concen: 110.656 ug/l

RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC100

Tot Ion:128 Resp: 1636323

Ion Ratio Lower Upper

128 100

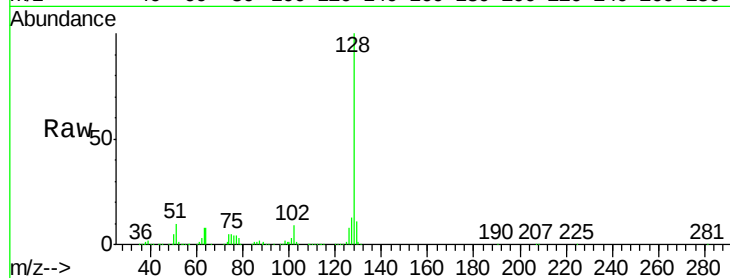
127 13.3 10.6 15.8

129 10.9 8.6 12.8

Manual Integrations
APPROVED

MMDadoda

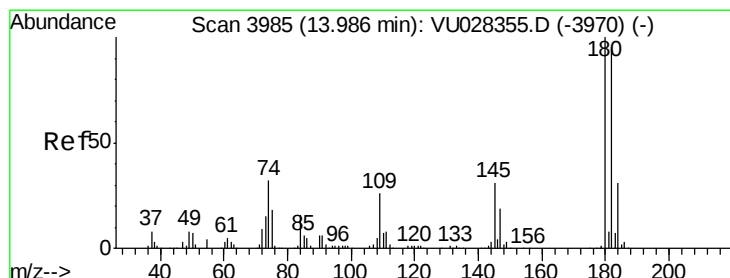
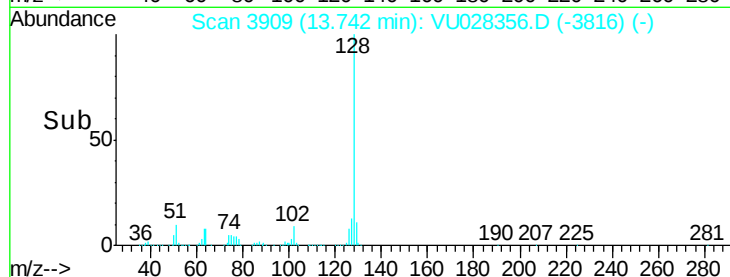
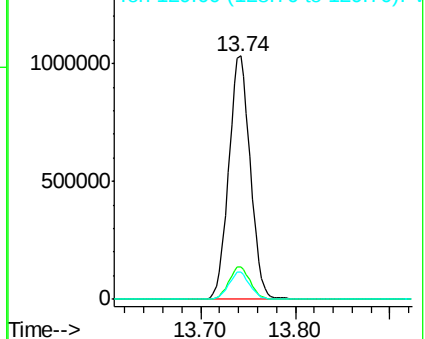
11/29/2018 1:22:58 PM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 104.950 ug/l

RT: 13.99 min Scan# 3985

Delta R.T. 0.00 min

Lab File: VU028356.D

Acq: 28 Nov 2018 10:47

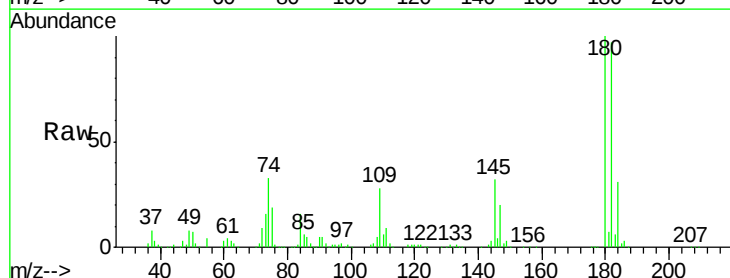
Tgt Ion:180 Resp: 461544

Ion Ratio Lower Upper

180 100

182 96.2 47.7 143.1

145 31.8 15.7 47.1



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

