

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U090619\
 Data File : VU034277.D
 Acq On : 05 Sep 2019 12:10
 Operator : JC/SP
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 ICVVU090619

Manual Integrations
 APPROVED

MMDadoda
 9/6/2019 3:21:46 PM

Quant Time: Sep 06 05:24:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 06 05:10:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	347911	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	504055	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	502261	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	323506	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.29	65	248870	47.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.56%	
35) Dibromofluoromethane	4.86	113	218633	46.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.22%	
50) Toluene-d8	7.54	98	860889	48.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.70%	
62) 4-Bromofluorobenzene	10.29	95	321181	47.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.42%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	168745	46.376	ug/l	99
3) Chloromethane	1.32	50	203229	51.701	ug/l	98
4) Vinyl Chloride	1.40	62	208392	45.960	ug/l	97
5) Bromomethane	1.61	94	123190	53.861	ug/l	98
6) Chloroethane	1.68	64	131349	49.838	ug/l	98
7) Trichlorofluoromethane	1.87	101	281447	46.294	ug/l	100
8) Diethyl Ether	2.09	74	127454	47.661	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.27	101	189899	47.161	ug/l	98
10) Methyl Iodide	2.40	142	144915m	40.157	ug/l	
11) Tert butyl alcohol	2.81	59	315260	283.484	ug/l	100
12) 1,1-Dichloroethene	2.27	96	173831	45.923	ug/l	99
13) Acrolein	2.18	56	212781	227.646	ug/l	99
14) Allyl chloride	2.58	41	349686m	48.321	ug/l	
15) Acrylonitrile	2.92	53	736387	265.905	ug/l	98
16) Acetone	2.31	43	734693	269.702	ug/l	99
17) Carbon Disulfide	2.46	76	384177	45.158	ug/l	100
18) Methyl Acetate	2.60	43	322724	48.688	ug/l	97
19) Methyl tert-butyl Ether	2.98	73	697794	50.575	ug/l	99
20) Methylene Chloride	2.68	84	225434	50.529	ug/l	99
21) trans-1,2-Dichloroethene	2.96	96	188139	47.165	ug/l	99
22) Diisopropyl ether	3.55	45	708657	50.214	ug/l	99
23) Vinyl Acetate	3.50	43	3043989	264.794	ug/l	99
24) 1,1-Dichloroethane	3.42	63	392056	46.518	ug/l	99
25) 2-Butanone	4.23	43	1044886	287.348	ug/l	100
26) 2,2-Dichloropropane	4.20	77	330038	48.689	ug/l	99
27) cis-1,2-Dichloroethene	4.20	96	238651	49.260	ug/l	99
28) Bromochloromethane	4.52	49	176361	45.494	ug/l	100
29) Tetrahydrofuran	4.61	42	614719	277.812	ug/l	100
30) Chloroform	4.65	83	390993	45.641	ug/l	100
31) Cyclohexane	4.97	56	295352	47.902	ug/l	100
32) 1,1,1-Trichloroethane	4.89	97	325151	47.472	ug/l	99
36) 1,1-Dichloropropene	5.11	75	264178	48.326	ug/l	99
37) Ethyl Acetate	4.35	43	349581	54.088	ug/l	99
38) Carbon Tetrachloride	5.11	117	275846	47.260	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090619\
 Data File : VU034277.D
 Acq On : 05 Sep 2019 12:10
 Operator : JC/SP
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 ICVVU090619

Manual Integrations
 APPROVED

MMDadoda
 9/6/2019 3:21:46 PM

Quant Time: Sep 06 05:24:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 06 05:10:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.39	83	298133	51.018	ug/l	98
40) Benzene	5.37	78	845493	47.933	ug/l	100
41) Methacrylonitrile	4.51	41	189232	54.966	ug/l	98
42) 1,2-Dichloroethane	5.38	62	289483	47.269	ug/l	100
43) Isopropyl Acetate	5.53	43	533058	52.869	ug/l	99
44) Trichloroethene	6.16	130	230291	47.180	ug/l	97
45) 1,2-Dichloropropane	6.41	63	245670	47.641	ug/l	98
46) Dibromomethane	6.54	93	154770	47.815	ug/l	99
47) Bromodichloromethane	6.73	83	317017	47.580	ug/l	99
48) Methyl methacrylate	6.60	41	255084	53.267	ug/l	100
49) 1,4-Dioxane	6.59	88	119016	1138.147	ug/l	98
51) 4-Methyl-2-Pentanone	7.44	43	1863138	266.959	ug/l	99
52) Toluene	7.62	92	540469	48.844	ug/l	99
53) t-1,3-Dichloropropene	7.86	75	353350	51.160	ug/l	98
54) cis-1,3-Dichloropropene	7.25	75	385373	50.838	ug/l	99
55) 1,1,2-Trichloroethane	8.05	97	239010	47.570	ug/l	98
56) Ethyl methacrylate	8.00	69	373159	48.953	ug/l	100
57) 1,3-Dichloropropane	8.22	76	394424	48.209	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.11	63	738551	283.583	ug/l	100
59) 2-Hexanone	8.34	43	1468136	281.589	ug/l	99
60) Dibromochloromethane	8.46	129	265925	49.344	ug/l	99
61) 1,2-Dibromoethane	8.57	107	245653	49.952	ug/l	99
64) Tetrachloroethene	8.21	164	200581	46.032	ug/l	98
65) Chlorobenzene	9.10	112	621944	48.808	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.19	131	232634	47.838	ug/l	100
67) Ethyl Benzene	9.23	91	1057782	50.770	ug/l	100
68) m/p-Xylenes	9.36	106	814393	103.803	ug/l	100
69) o-Xylene	9.76	106	396393	51.663	ug/l	100
70) Styrene	9.77	104	710152	52.791	ug/l	99
71) Bromoform	9.94	173	212211	50.352	ug/l #	100
73) Isopropylbenzene	10.15	105	1084937	51.534	ug/l	100
74) N-amyl acetate	10.00	43	479205	56.547	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.44	83	411173	48.250	ug/l	99
76) 1,2,3-Trichloropropane	10.48	75	365848m	51.808	ug/l	
77) Bromobenzene	10.43	156	290714	49.385	ug/l	100
78) n-propylbenzene	10.57	91	1267211	52.118	ug/l	100
79) 2-Chlorotoluene	10.64	91	748160	50.430	ug/l	100
80) 1,3,5-Trimethylbenzene	10.75	105	936504	53.188	ug/l	100
81) trans-1,4-Dichloro-2-buten	10.49	75	125884m	59.950	ug/l	
82) 4-Chlorotoluene	10.75	91	875037	51.254	ug/l	100
83) tert-Butylbenzene	11.08	119	924340	52.477	ug/l	99
84) 1,2,4-Trimethylbenzene	11.13	105	943959	53.259	ug/l	100
85) sec-Butylbenzene	11.31	105	1108167	53.291	ug/l	100
86) p-Isopropyltoluene	11.46	119	1031470	53.741	ug/l	99
87) 1,3-Dichlorobenzene	11.40	146	537480	50.036	ug/l	100
88) 1,4-Dichlorobenzene	11.49	146	533562	47.622	ug/l	100
89) n-Butylbenzene	11.87	91	937002	56.177	ug/l	100
90) Hexachloroethane	12.13	117	159643	51.989	ug/l	100
91) 1,2-Dichlorobenzene	11.86	146	517081	48.980	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	12.64	75	89490	57.148	ug/l	98

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU090619\
Data File : VU034277.D
Acq On : 05 Sep 2019 12:10
Operator : JC/SP
Sample : VSTDICV050
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
ICVVU090619

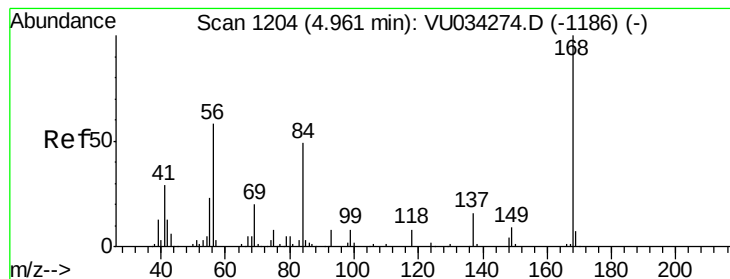
Manual Integrations
APPROVED

MMDadoda
9/6/2019 3:21:46 PM

Quant Time: Sep 06 05:24:04 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
Quant Title : SW846 8260
QLast Update : Fri Sep 06 05:10:13 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.49	180	387527	50.572	ug/l	99
94) Hexachlorobutadiene	13.67	225	190823	51.674	ug/l	99
95) Naphthalene	13.72	128	1147122	52.949	ug/l	99
96) 1,2,3-Trichlorobenzene	13.97	180	383839	51.803	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. -0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

Instrument :

MSVOA_U

ClientSampleId :

ICVVU090619

Tot Ion:168 Resp: 347911

Ion Ratio Lower Upper

168 100

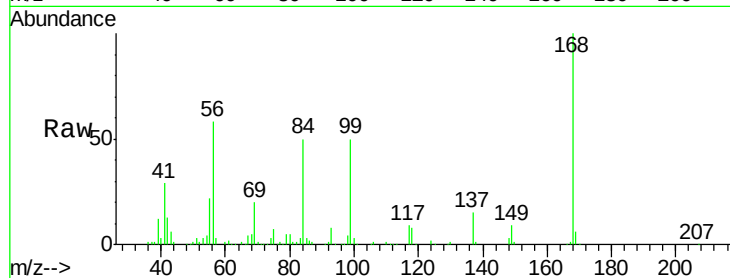
99 49.5 41.6 62.4

Manual Integrations

APPROVED

MMDadoda

9/6/2019 3:21:46 PM



Abundance Ion 167.90 (167.60 to 168.60): VU034277.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU034277.D (-1186) (-)

4.96

150000

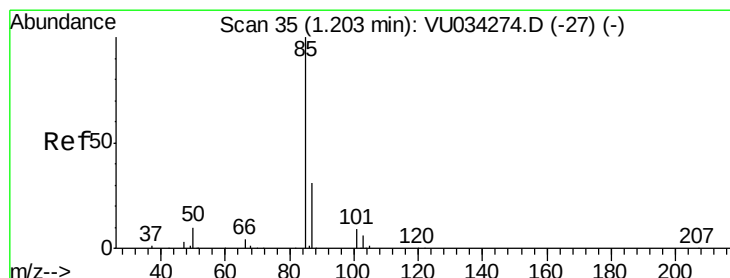
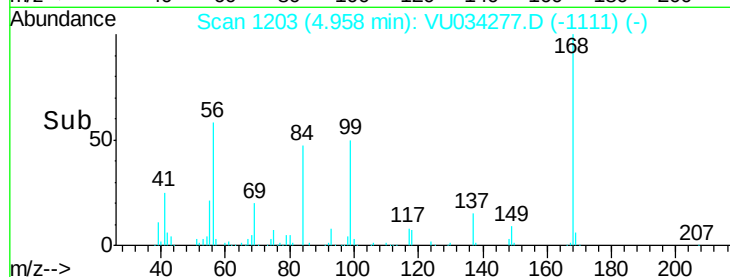
100000

50000

0

4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 46.376 ug/l

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU034277.D

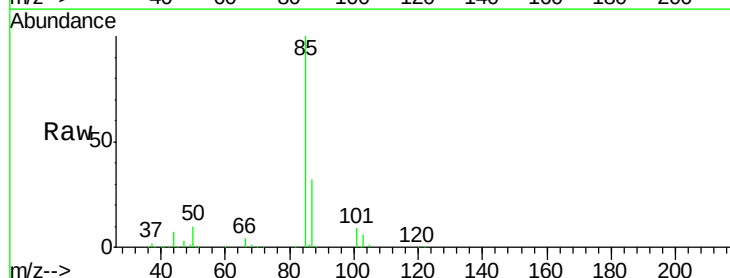
Acq: 05 Sep 2019 12:10

Tgt Ion: 85 Resp: 168745

Ion Ratio Lower Upper

85 100

87 31.8 15.7 47.0



Abundance Ion 84.90 (84.60 to 85.60): VU034277.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VU034277.D (-1) (-)

1.20

150000

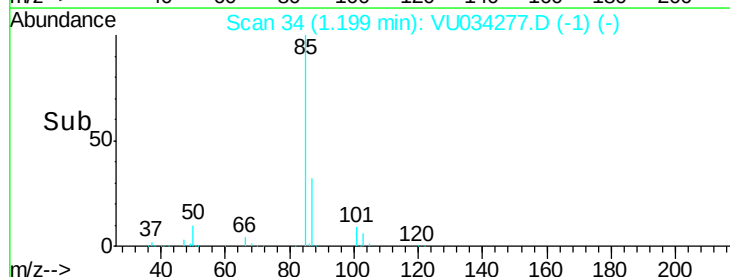
100000

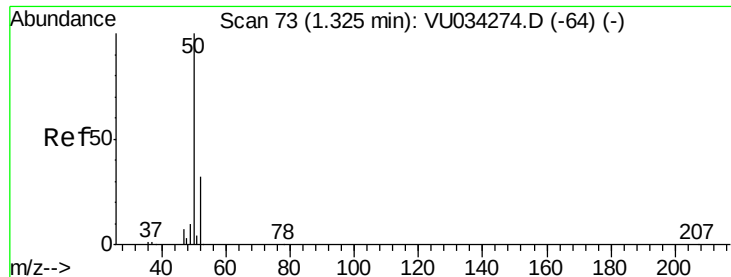
50000

0

1.15 1.20 1.25

Time-->





#3

Chloromethane

Concen: 51.701 ug/l

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

Instrument :

MSVOA_U

ClientSampleId :

ICVVU090619

Tot Ion: 50 Resp: 203229

Ion Ratio Lower Upper

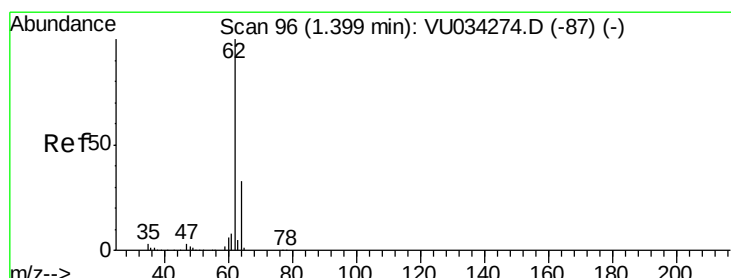
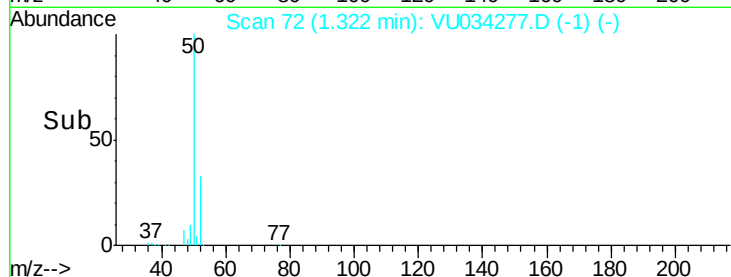
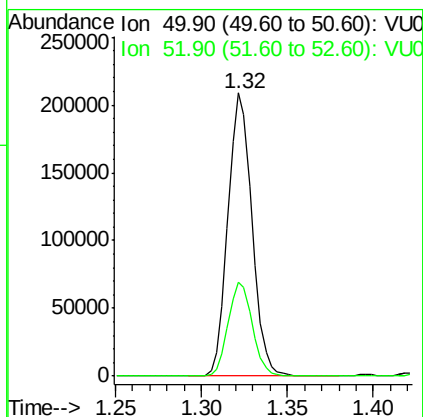
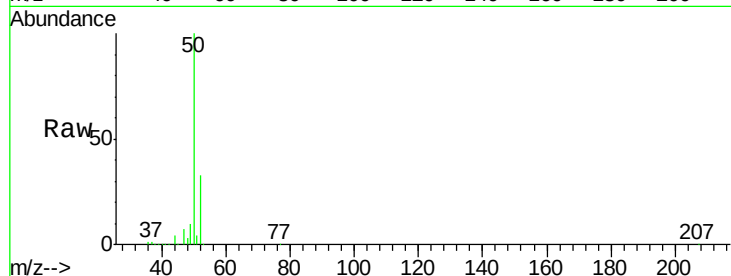
50 100

52 33.4 25.8 38.6

Manual Integrations
APPROVED

MMDadoda

9/6/2019 3:21:46 PM



#4

Vinyl Chloride

Concen: 45.960 ug/l

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU034277.D

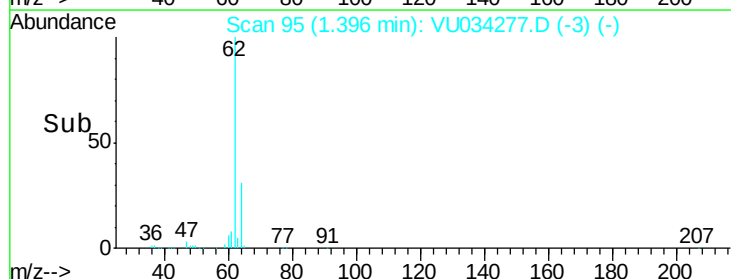
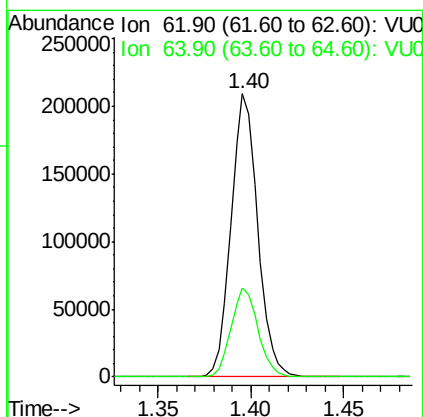
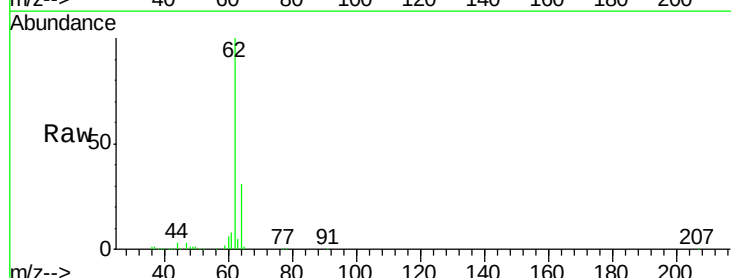
Acq: 05 Sep 2019 12:10

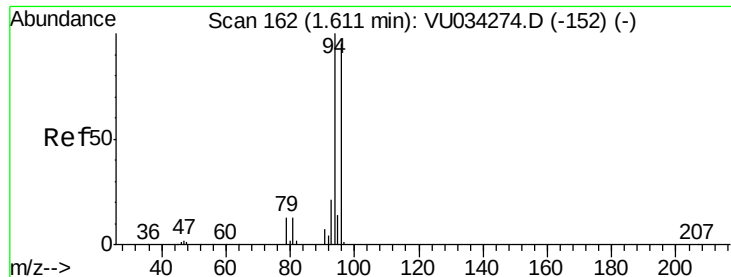
Tgt Ion: 62 Resp: 208392

Ion Ratio Lower Upper

62 100

64 31.2 26.2 39.4





#5

Bromomethane

Concen: 53.861 ug/l

RT: 1.61 min Scan# 161

Delta R.T. -0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

Instrument :

MSVOA_U

ClientSampleId :

ICVVU090619

Tot Ion: 94 Resp: 123190

Ion Ratio Lower Upper

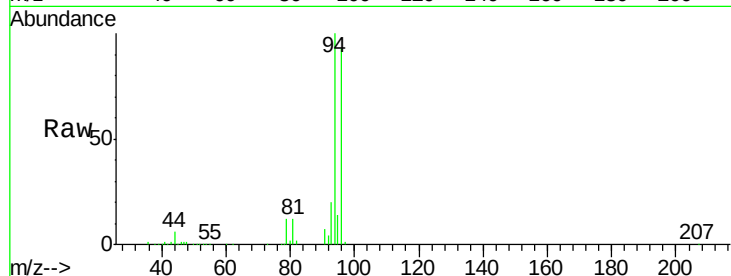
94 100

96 92.7 75.7 113.5

Manual Integrations
APPROVED

MMDadoda

9/6/2019 3:21:46 PM



Abundance Ion 93.90 (93.60 to 94.60): VU034277.D (-68) (-)

Ion 95.90 (95.60 to 96.60): VU034277.D (-68) (-)

1.61

100000

80000

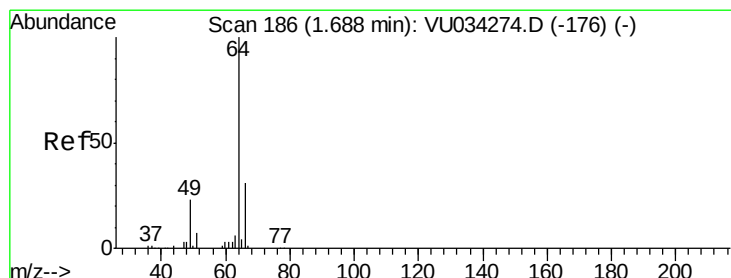
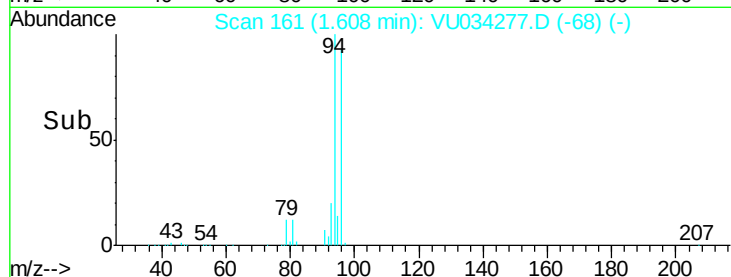
60000

40000

20000

0

Time-->



#6

Chloroethane

Concen: 49.838 ug/l

RT: 1.68 min Scan# 185

Delta R.T. -0.00 min

Lab File: VU034277.D

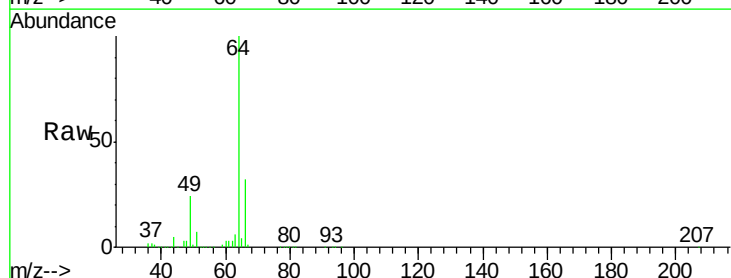
Acq: 05 Sep 2019 12:10

Tgt Ion: 64 Resp: 131349

Ion Ratio Lower Upper

64 100

66 32.3 25.0 37.6



Abundance Ion 63.90 (63.60 to 64.60): VU034277.D (-93) (-)

Ion 65.90 (65.60 to 66.60): VU034277.D (-93) (-)

1.68

100000

80000

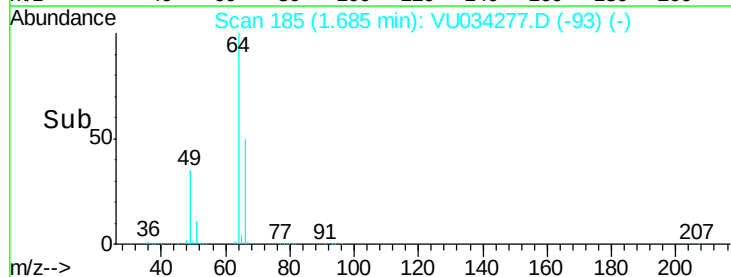
60000

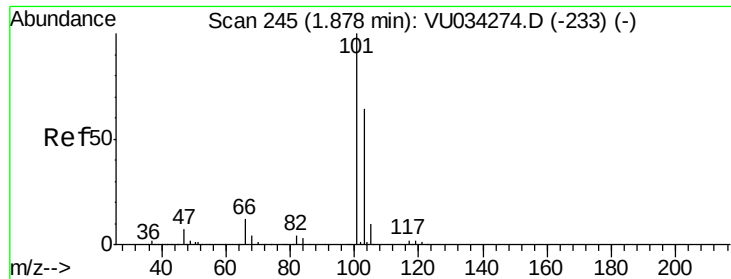
40000

20000

0

Time-->





#7

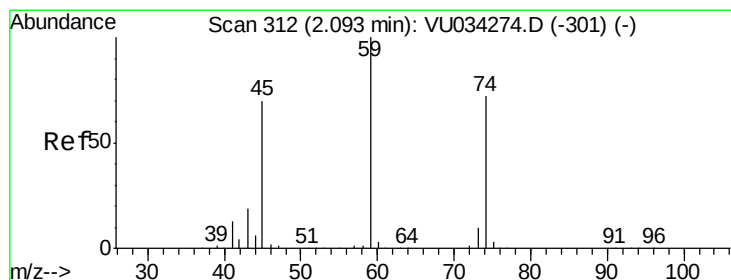
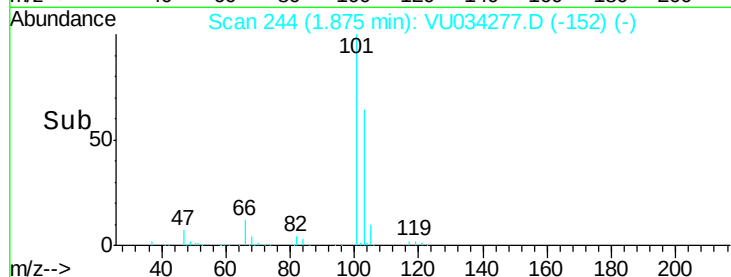
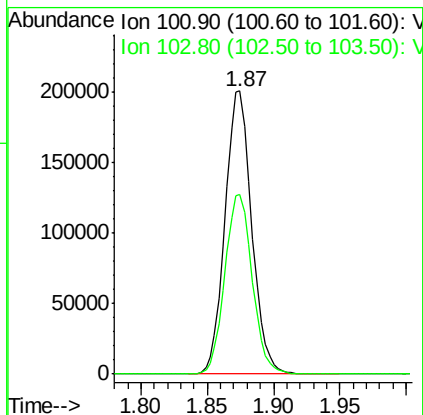
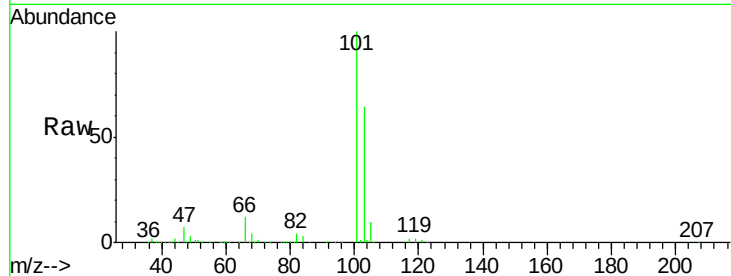
Trichlorofluoromethane
 Concen: 46.294 ug/l
 RT: 1.87 min Scan# 244
 Delta R.T. -0.00 min
 Lab File: VU034277.D
 Acq: 05 Sep 2019 12:10

Instrument :
 MSVOA_U
 ClientSampleId :
 ICVVU090619

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.7	51.0	76.6

Manual Integrations
 APPROVED

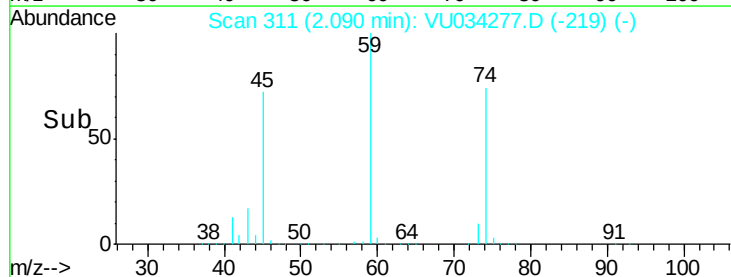
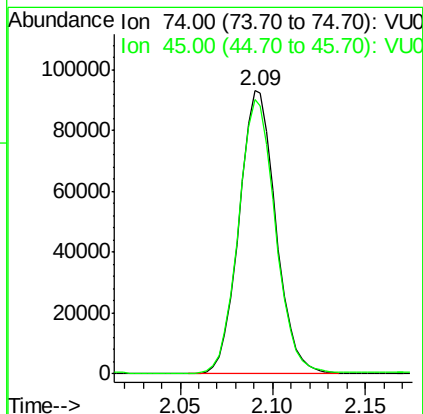
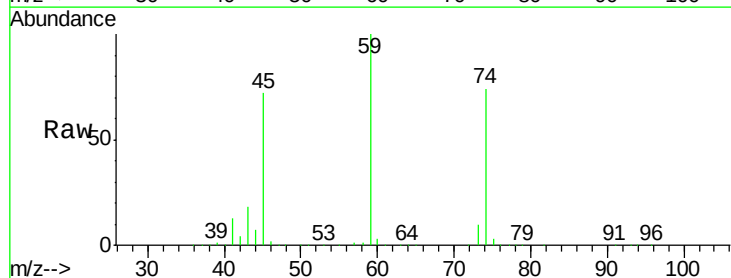
MMDadoda
 9/6/2019 3:21:46 PM

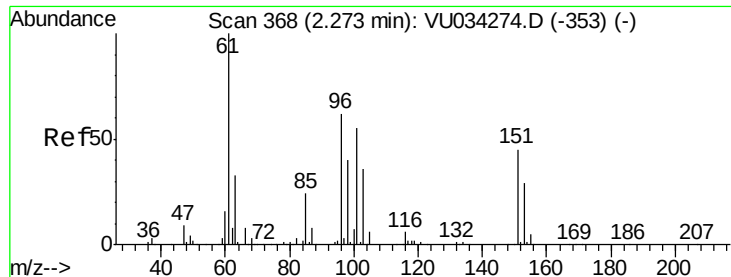


#8

Diethyl Ether
 Concen: 47.661 ug/l
 RT: 2.09 min Scan# 311
 Delta R.T. -0.00 min
 Lab File: VU034277.D
 Acq: 05 Sep 2019 12:10

Tgt Ion	Ratio	Lower	Upper
74	100		
45	97.4	48.2	144.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.161 ug/l

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

Instrument :

MSVOA_U

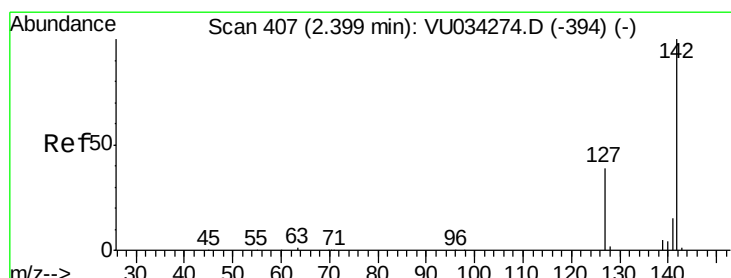
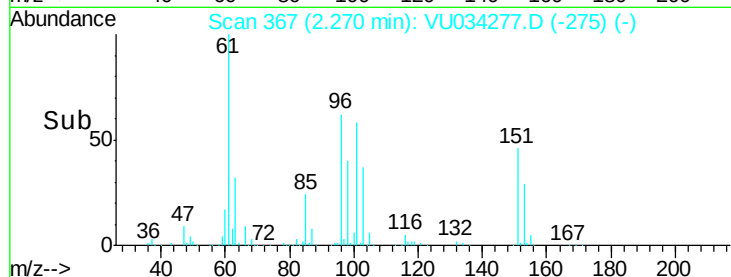
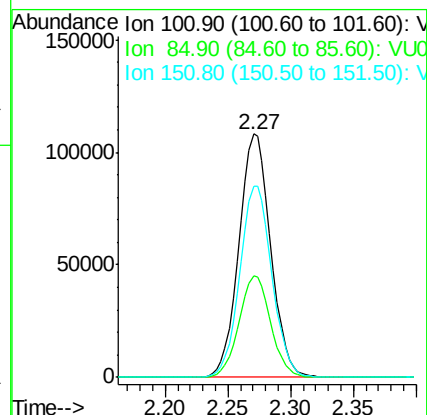
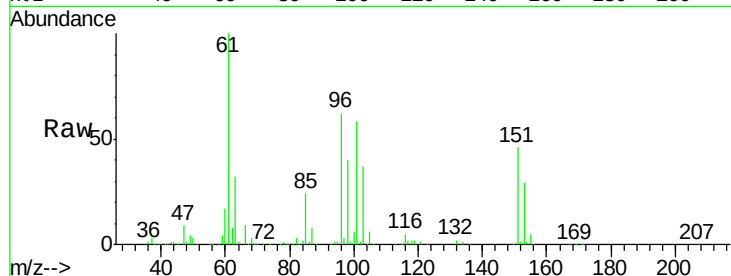
ClientSampleId :

ICVVU090619

Tot Ion:	101	Resp:	189899
Ion Ratio	Lower	Upper	
101	100		
85	41.6	34.4	51.6
151	79.5	64.4	96.6

Manual Integrations
APPROVED

MMDadoda
9/6/2019 3:21:46 PM



#10

Methyl Iodide

Concen: 40.157 ug/l m

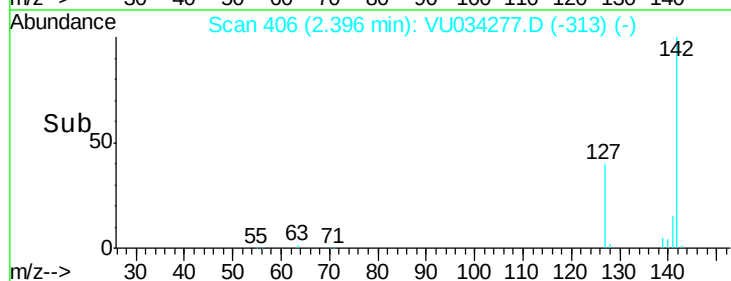
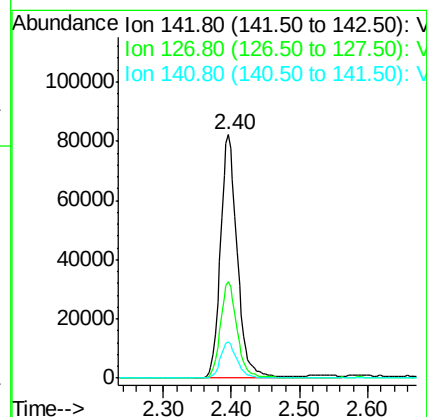
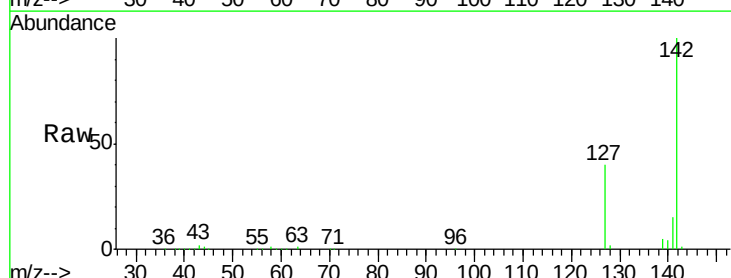
RT: 2.40 min Scan# 406

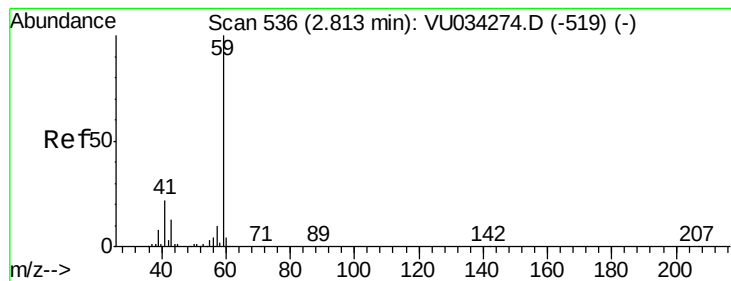
Delta R.T. -0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

Tgt Ion:	142	Resp:	144915
Ion Ratio	Lower	Upper	
142	100		
127	38.5	32.1	48.1
141	14.3	11.5	17.3





#11

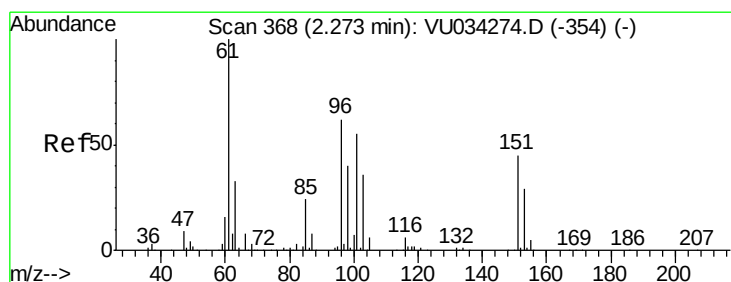
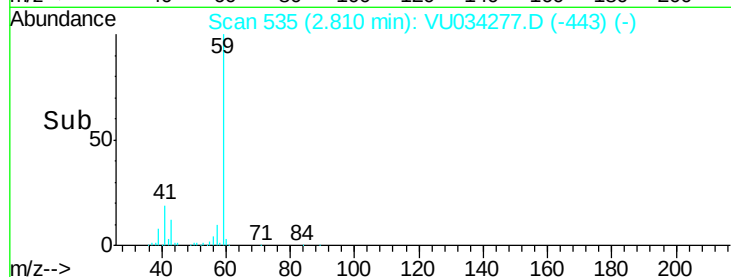
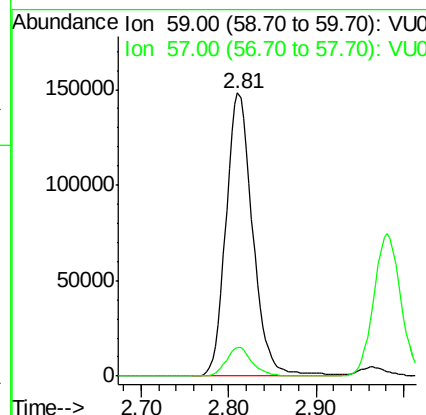
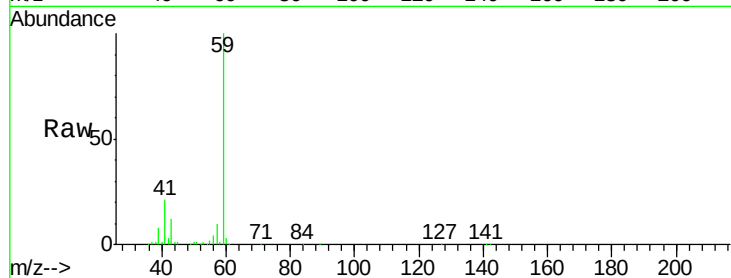
Tert butyl alcohol
 Concen: 283.484 ug/l
 RT: 2.81 min Scan# 535
 Delta R.T. -0.00 min
 Lab File: VU034277.D
 Acq: 05 Sep 2019 12:10

Instrument :
 MSVOA_U
 ClientSampleId :
 ICVVU090619

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.9	7.9	11.9

Manual Integrations
 APPROVED

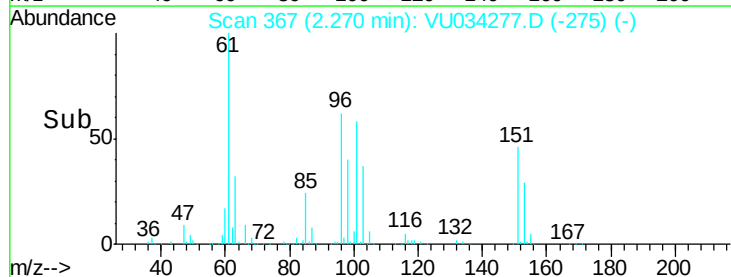
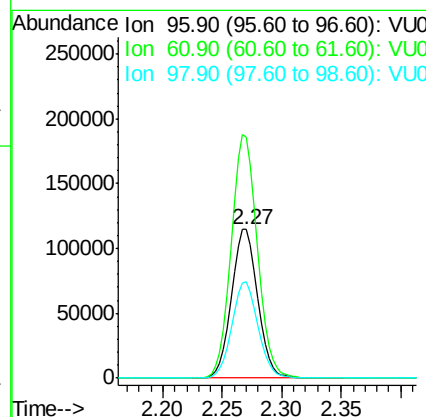
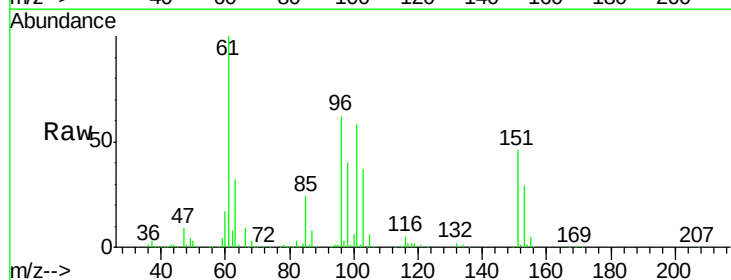
MMDadoda
 9/6/2019 3:21:46 PM

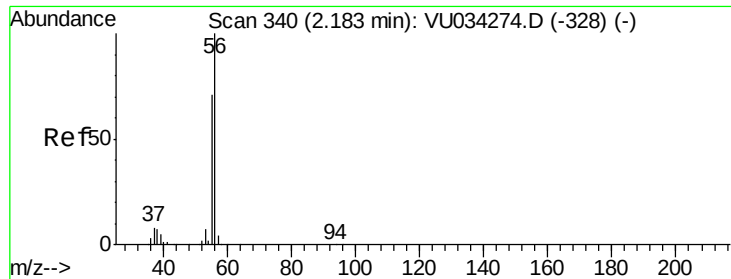


#12

1,1-Dichloroethene
 Concen: 45.923 ug/l
 RT: 2.27 min Scan# 367
 Delta R.T. -0.00 min
 Lab File: VU034277.D
 Acq: 05 Sep 2019 12:10

Tgt Ion	Ratio	Lower	Upper
96	100		
61	161.9	130.0	195.0
98	64.5	52.2	78.4





#13

Acrolein

Concen: 227.646 ug/l

RT: 2.18 min Scan# 339

Delta R.T. -0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

Instrument :

MSVOA_U

ClientSampleId :

ICVVU090619

Tot Ion: 56 Resp: 212781

Ion Ratio Lower Upper

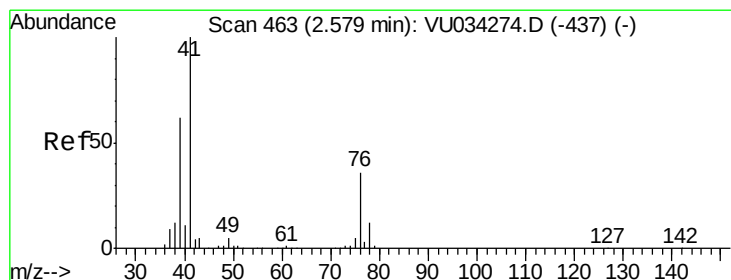
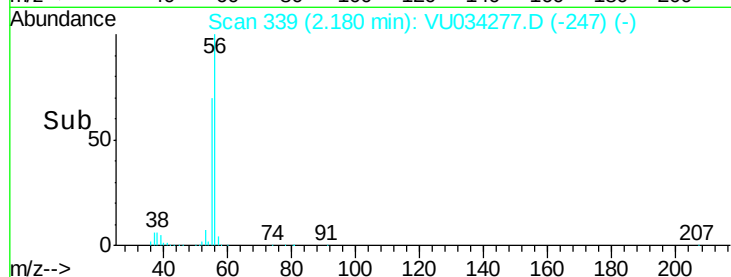
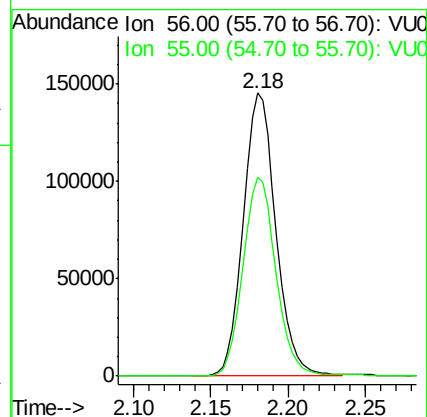
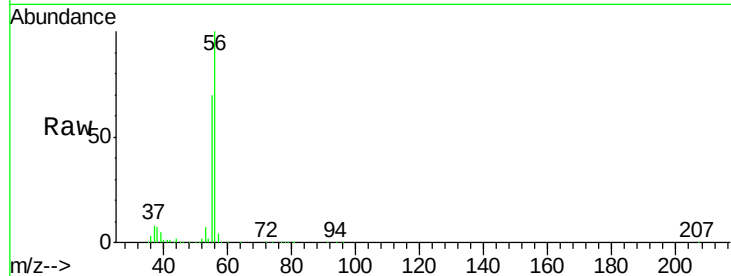
56 100

55 70.9 57.4 86.2

Manual Integrations
APPROVED

MMDadoda

9/6/2019 3:21:46 PM



#14

Allyl chloride

Concen: 48.321 ug/l m

RT: 2.58 min Scan# 462

Delta R.T. -0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

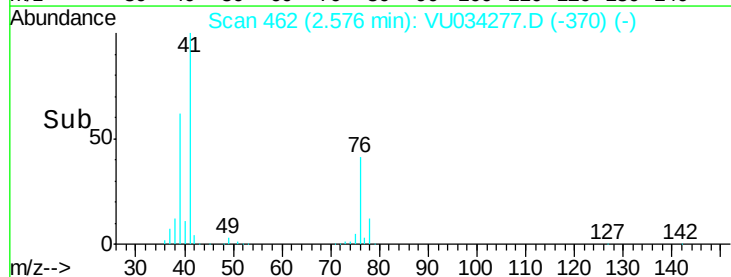
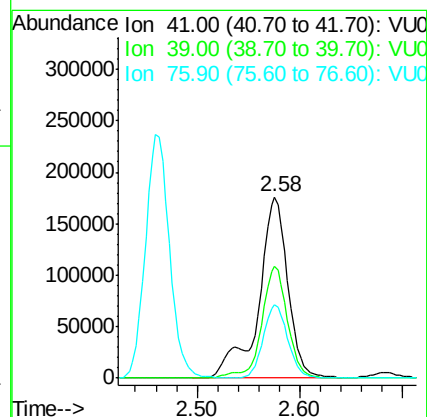
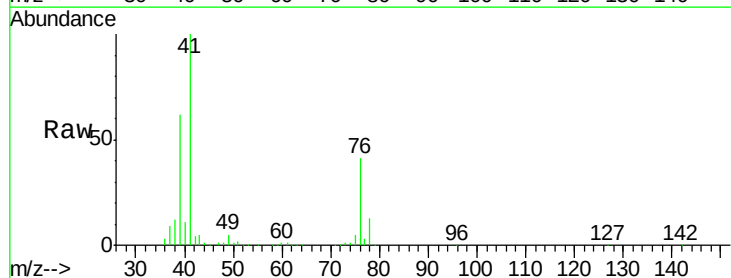
Tgt Ion: 41 Resp: 349686

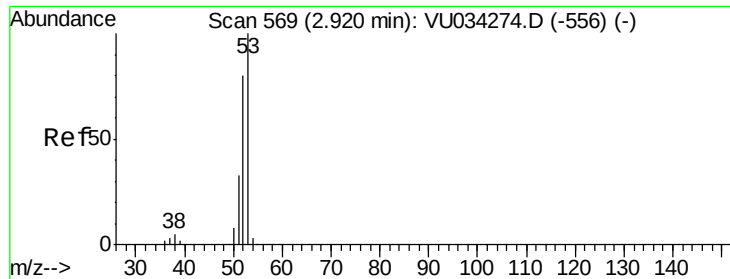
Ion Ratio Lower Upper

41 100

39 54.0 43.5 65.3

76 33.6 27.0 40.6





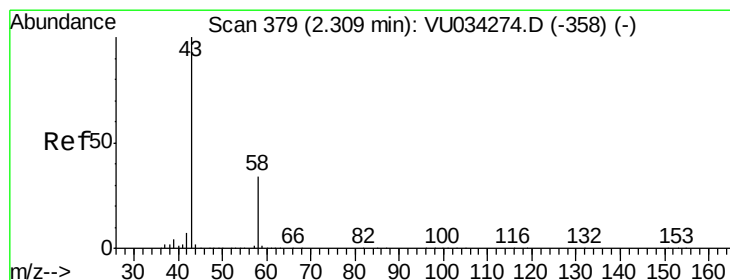
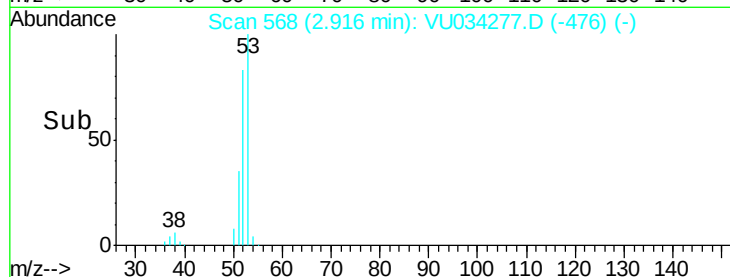
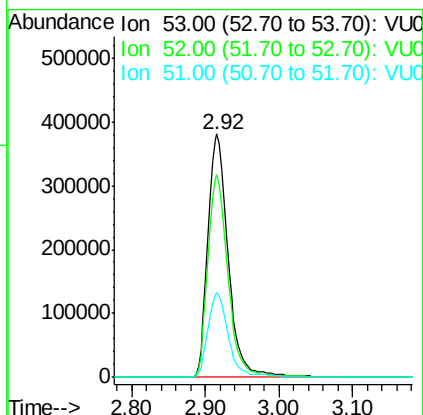
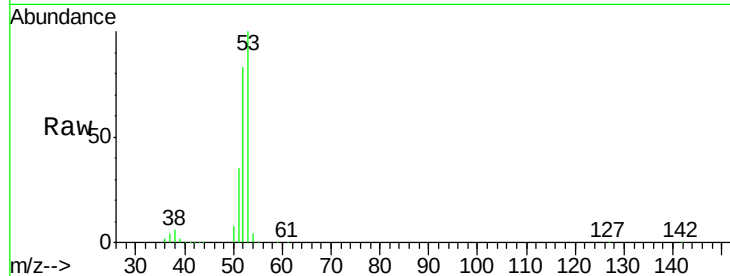
#15
 Acrylonitrile
 Concen: 265.905 ug/l
 RT: 2.92 min Scan# 568
 Delta R.T. -0.00 min
 Lab File: VU034277.D
 Acq: 05 Sep 2019 12:10

Instrument :
 MSVOA_U
 ClientSampleId :
 ICVVU090619

Tot Ion:	53	Resp:	736387
Ion	Ratio	Lower	Upper
53	100		
52	82.6	64.1	96.1
51	34.8	27.4	41.0

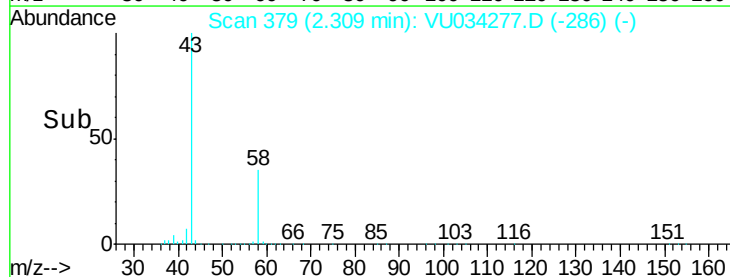
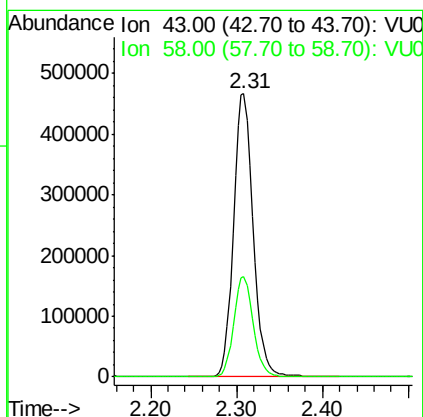
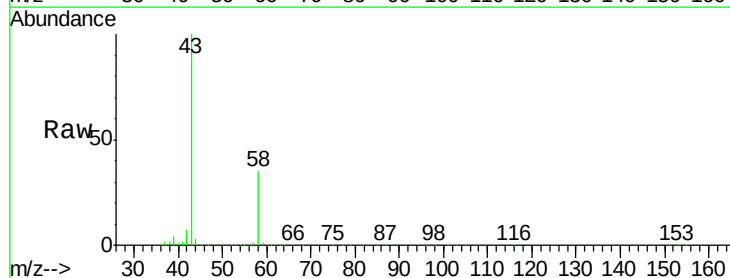
Manual Integrations
 APPROVED

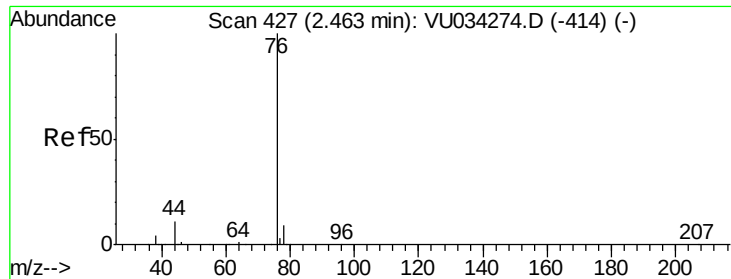
MMDadoda
 9/6/2019 3:21:46 PM



#16
 Acetone
 Concen: 269.702 ug/l
 RT: 2.31 min Scan# 379
 Delta R.T. 0.00 min
 Lab File: VU034277.D
 Acq: 05 Sep 2019 12:10

Tgt Ion:	43	Resp:	734693
Ion	Ratio	Lower	Upper
43	100		
58	35.2	27.6	41.4





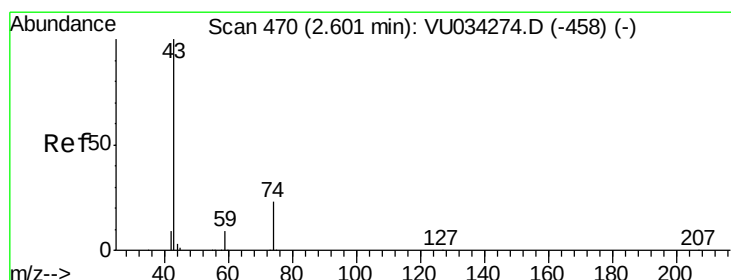
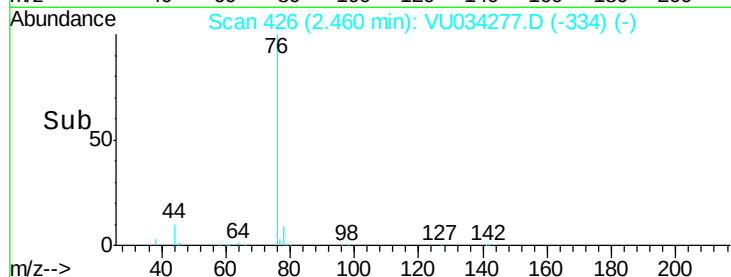
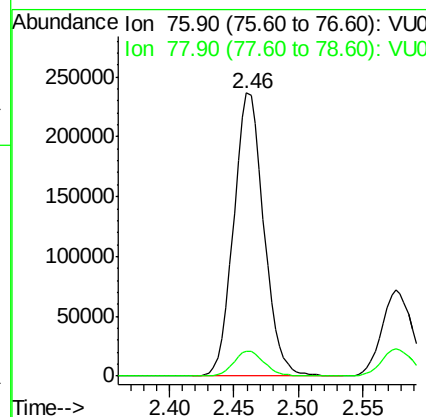
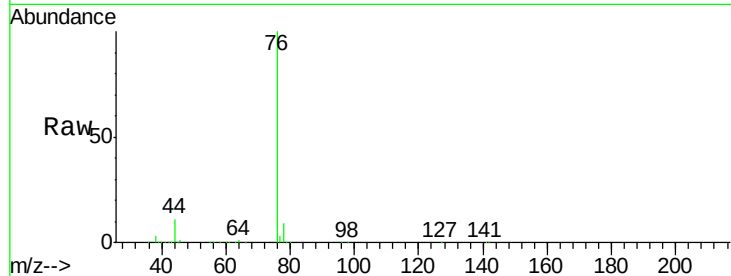
#17
Carbon Disulfide
Concen: 45.158 ug/l
RT: 2.46 min Scan# 426
Delta R.T. -0.00 min
Lab File: VU034277.D
Acq: 05 Sep 2019 12:10

Instrument :
MSVOA_U
ClientSampleId :
ICVVU090619

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.2	10.8

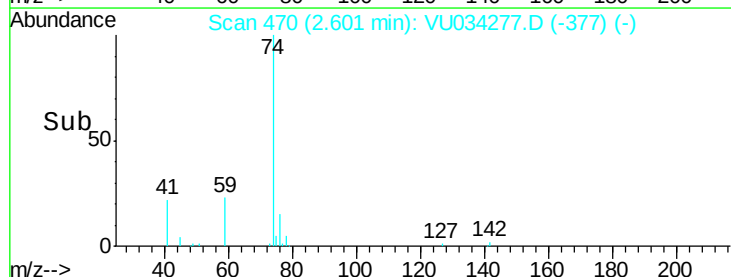
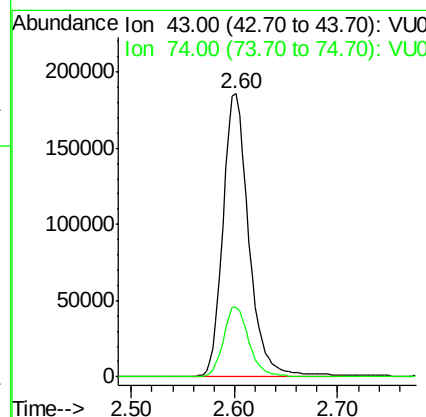
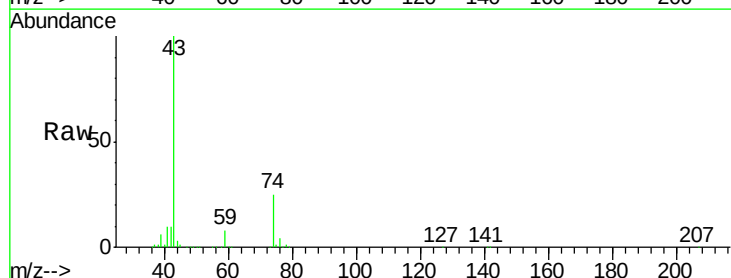
Manual Integrations
APPROVED

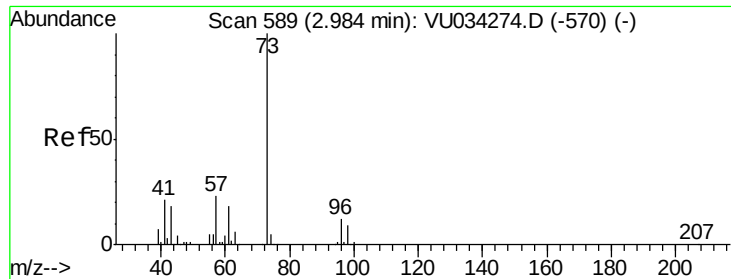
MMDadoda
9/6/2019 3:21:46 PM



#18
Methyl Acetate
Concen: 48.688 ug/l
RT: 2.60 min Scan# 470
Delta R.T. 0.00 min
Lab File: VU034277.D
Acq: 05 Sep 2019 12:10

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.9	18.9	28.3





#19

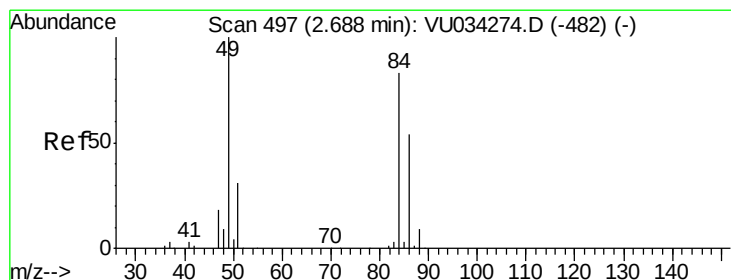
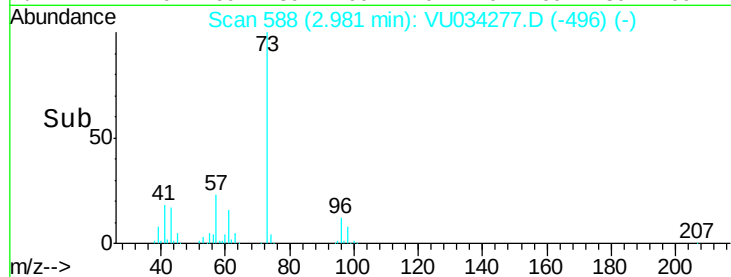
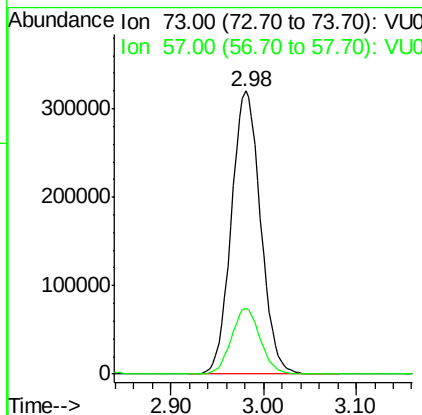
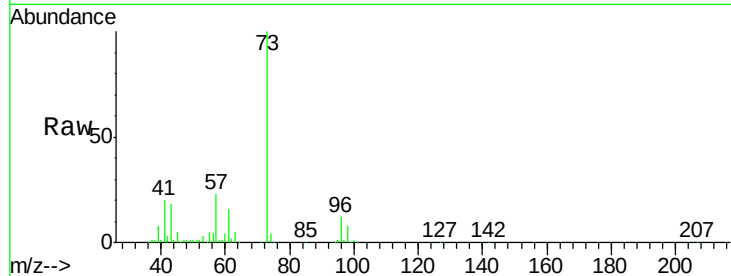
Methyl tert-butyl Ether
 Concen: 50.575 ug/l
 RT: 2.98 min Scan# 588
 Delta R.T. -0.00 min
 Lab File: VU034277.D
 Acq: 05 Sep 2019 12:10

Instrument :
 MSVOA_U
 ClientSampleId :
 ICVVU090619

Tot Ion	Ratio	Lower	Upper
73	100		
57	23.2	18.2	27.4

Manual Integrations
 APPROVED

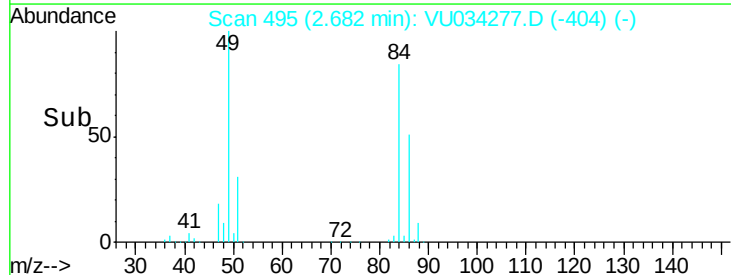
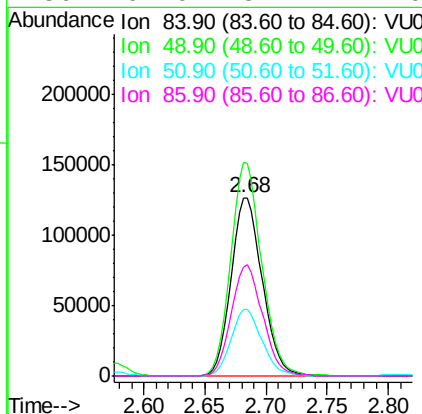
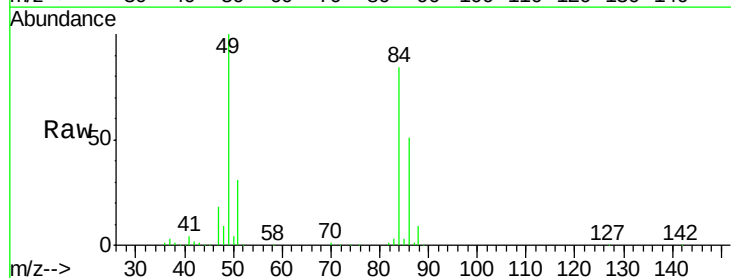
MMDadoda
 9/6/2019 3:21:46 PM

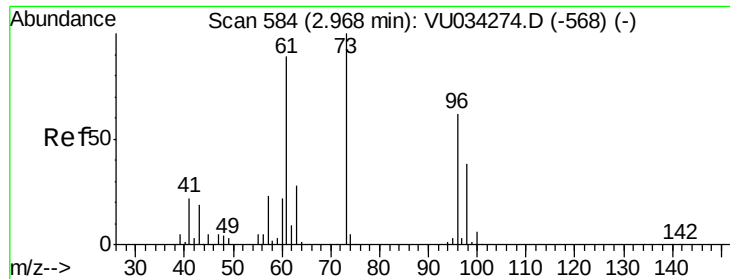


#20

Methylene Chloride
 Concen: 50.529 ug/l
 RT: 2.68 min Scan# 495
 Delta R.T. -0.01 min
 Lab File: VU034277.D
 Acq: 05 Sep 2019 12:10

Tgt Ion	Ratio	Lower	Upper
84	100		
49	119.7	96.0	144.0
51	37.6	30.0	45.0
86	61.0	51.4	77.0





#21

trans-1,2-Dichloroethene

Concen: 47.165 ug/l

RT: 2.96 min Scan# 583

Delta R.T. -0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

Instrument :

MSVOA_U

ClientSampleId :

ICVVU090619

Tot Ion: 96 Resp: 188139

Ion Ratio Lower Upper

96 100

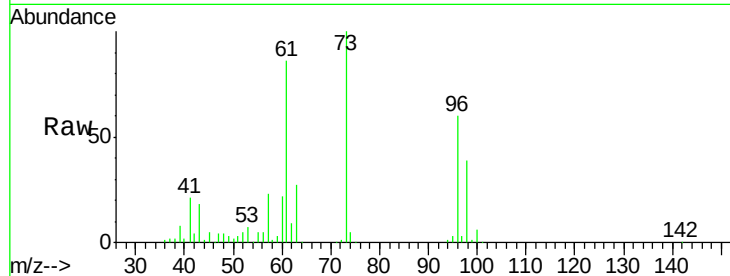
61 142.5 114.8 172.2

98 64.2 49.8 74.8

Manual Integrations
APPROVED

MMDadoda

9/6/2019 3:21:46 PM

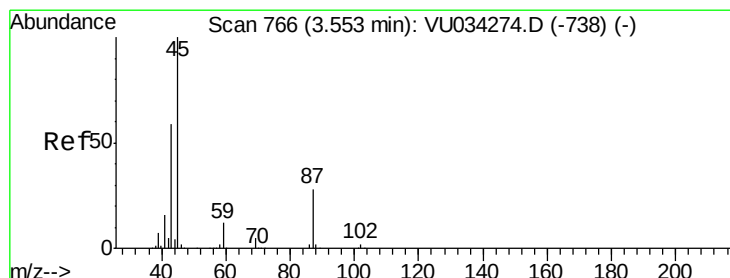
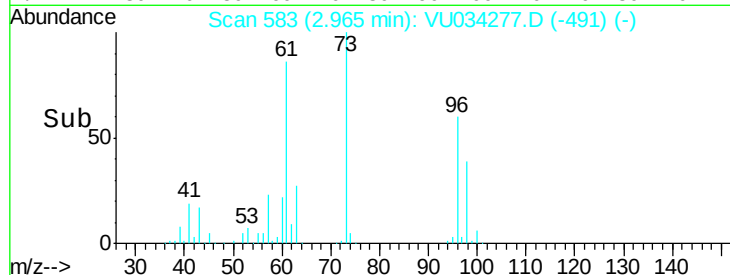
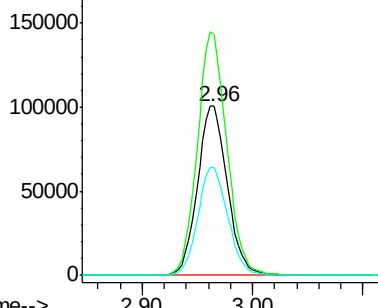


Abundance

Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0



#22

Diisopropyl ether

Concen: 50.214 ug/l

RT: 3.55 min Scan# 765

Delta R.T. -0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

Tgt Ion: 45 Resp: 708657

Ion Ratio Lower Upper

45 100

43 58.6 47.5 71.3

87 28.7 22.2 33.4

59 11.9 9.4 14.2

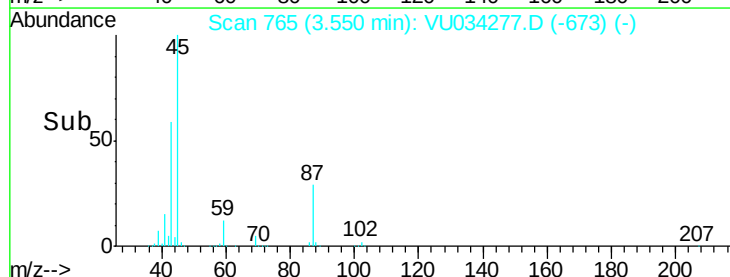
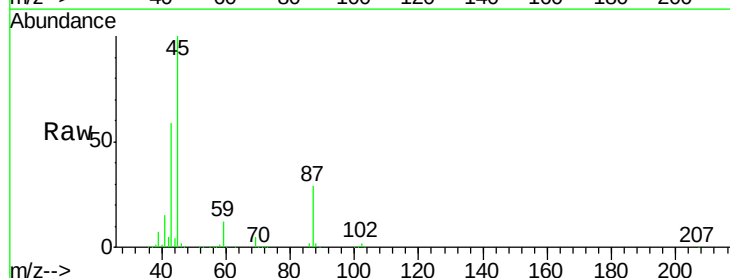
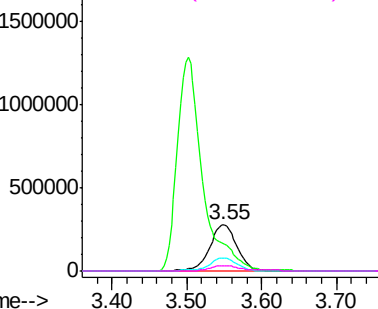
Abundance

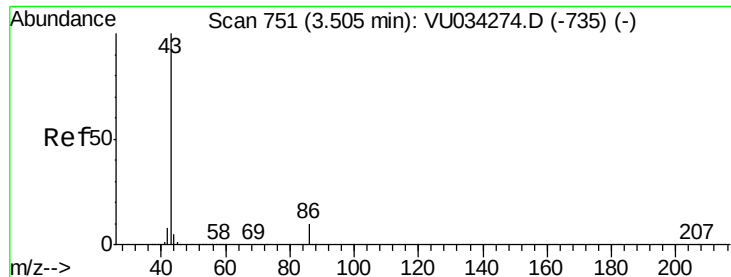
Ion 45.00 (44.70 to 45.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

Ion 59.00 (58.70 to 59.70): VU0





#23

Vinyl Acetate

Concen: 264.794 ug/l

RT: 3.50 min Scan# 750

Delta R.T. -0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

Tot Ion: 43 Resp: 3043989

Ion Ratio Lower Upper

43 100

86 10.7 8.3 12.5

Instrument :

MSVOA_U

ClientSampled :

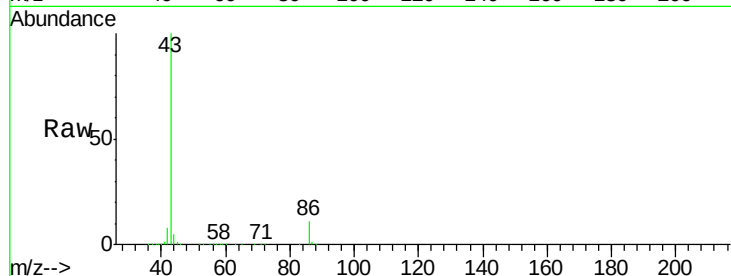
ICVVU090619

Manual Integrations

APPROVED

MMDadoda

9/6/2019 3:21:46 PM



Abundance Ion 43.00 (42.70 to 43.70): VU034277.D (-658) (-)

Ion 86.00 (85.70 to 86.70): VU034277.D (-658) (-)

1500000

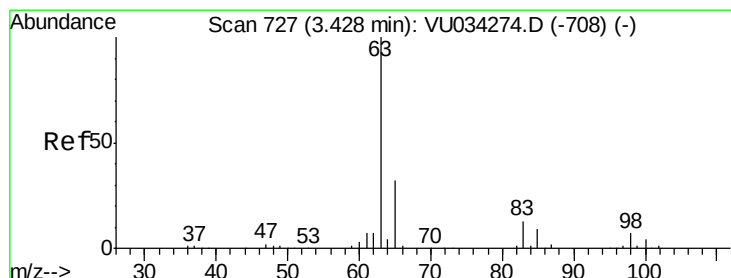
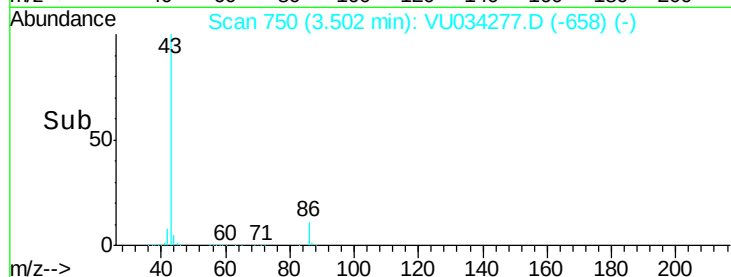
1000000

500000

0

3.40 3.50 3.60 3.70

Time-->



#24

1,1-Dichloroethane

Concen: 46.518 ug/l

RT: 3.42 min Scan# 726

Delta R.T. -0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

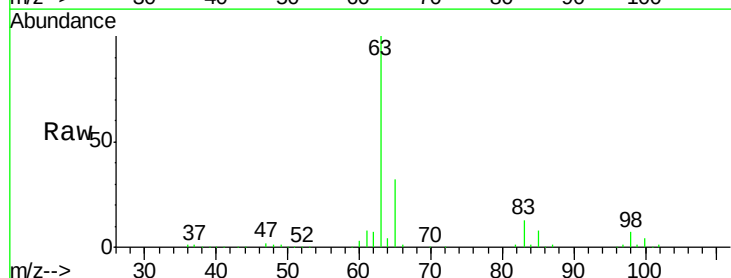
Tgt Ion: 63 Resp: 392056

Ion Ratio Lower Upper

63 100

98 6.6 3.5 10.4

100 4.3 2.1 6.5



Abundance Ion 62.90 (62.60 to 63.60): VU034277.D (-634) (-)

Ion 97.90 (97.60 to 98.60): VU034277.D (-634) (-)

Ion 99.90 (99.60 to 100.60): VU034277.D (-634) (-)

200000

150000

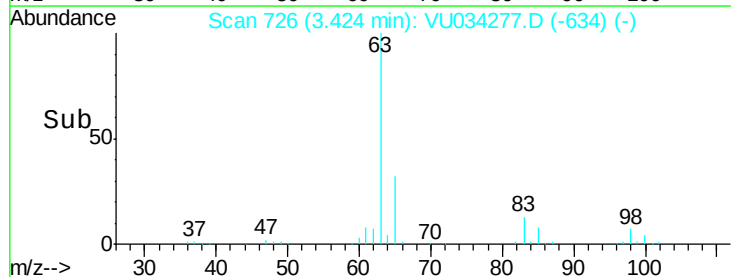
100000

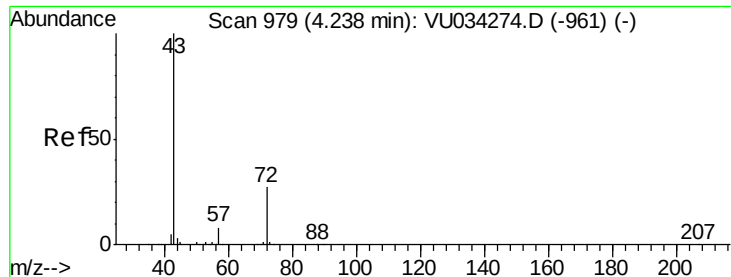
50000

0

3.30 3.40 3.50 3.60

Time-->





#25

2-Butanone

Concen: 287.348 ug/l

RT: 4.23 min Scan# 978

Delta R.T. -0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

Instrument :

MSVOA_U

ClientSampleId :

ICVVU090619

Tot Ion: 43 Resp: 1044886

Ion Ratio Lower Upper

43 100

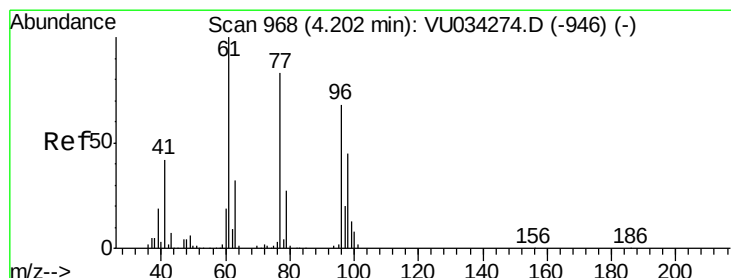
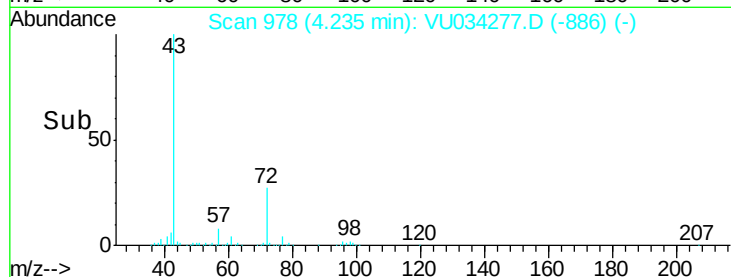
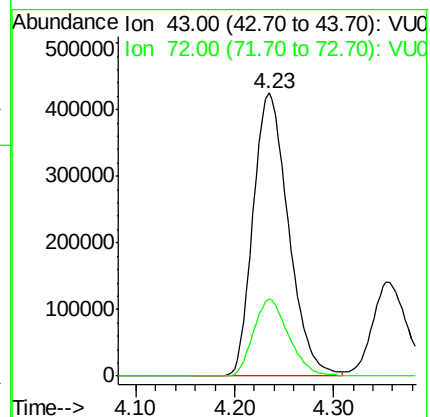
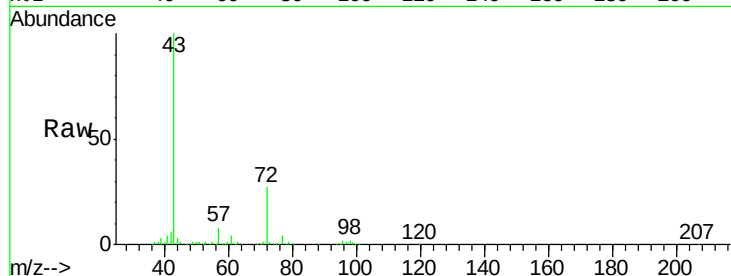
72 27.2 21.8 32.6

Manual Integrations

APPROVED

MMDadoda

9/6/2019 3:21:46 PM



#26

2,2-Dichloropropane

Concen: 48.689 ug/l

RT: 4.20 min Scan# 967

Delta R.T. -0.00 min

Lab File: VU034277.D

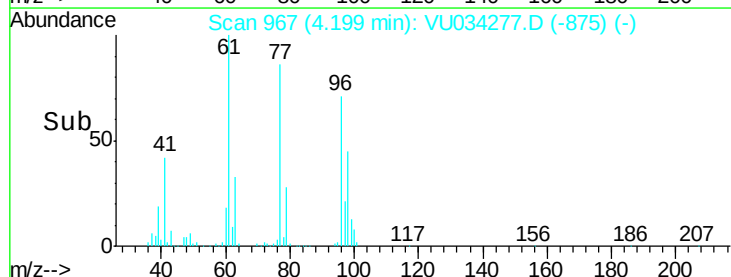
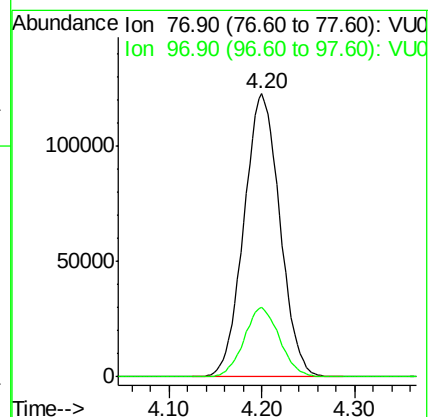
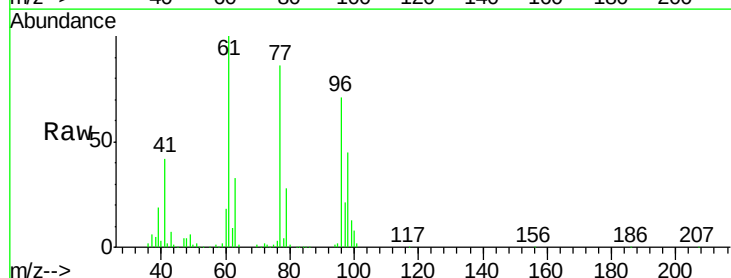
Acq: 05 Sep 2019 12:10

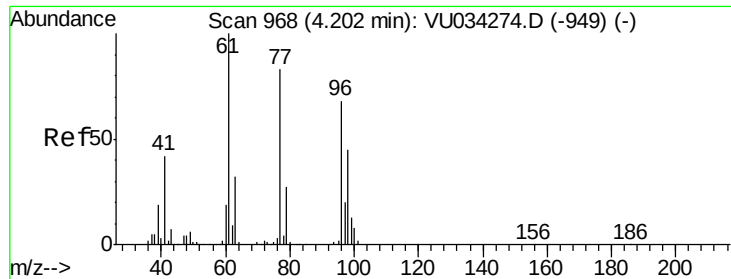
Tgt Ion: 77 Resp: 330038

Ion Ratio Lower Upper

77 100

97 24.2 11.8 35.3





#27

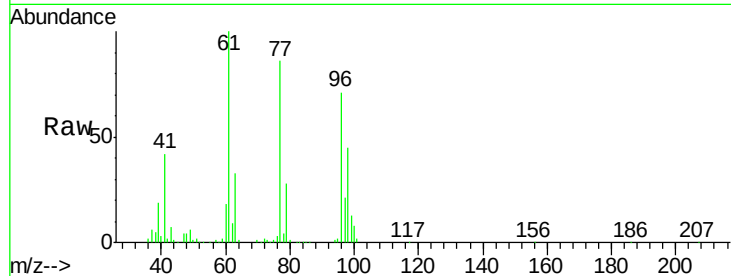
cis-1,2-Dichloroethene
Concen: 49.260 ug/l
RT: 4.20 min Scan# 967
Delta R.T. -0.00 min
Lab File: VU034277.D
Acq: 05 Sep 2019 12:10

Instrument :
MSVOA_U
ClientSampleId :
ICVVU090619

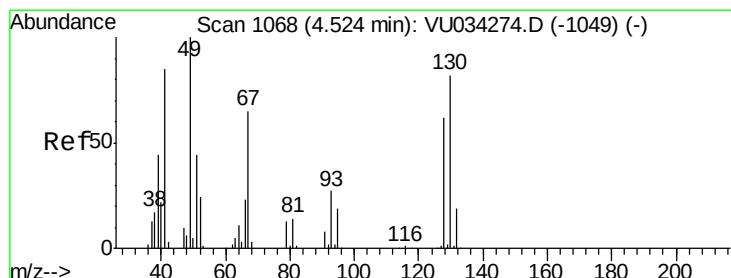
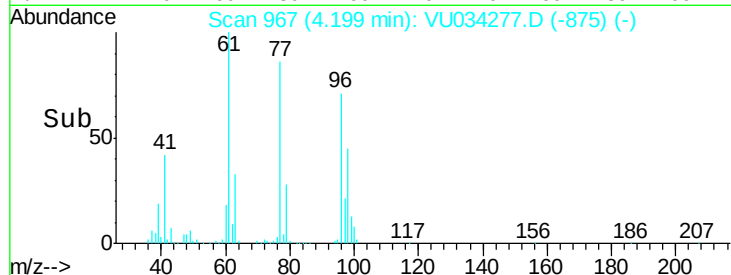
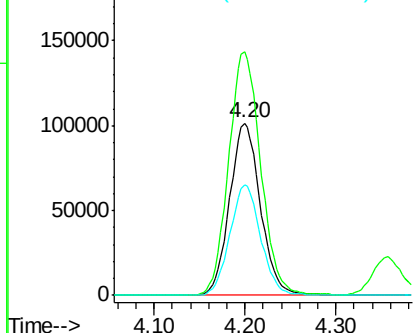
Tot Ion	Ratio	Resp	Lower	Upper
96	100	238651		
61	146.8	0.0	297.4	
98	64.2	0.0	130.0	

Manual Integrations
APPROVED

MMDadoda
9/6/2019 3:21:46 PM



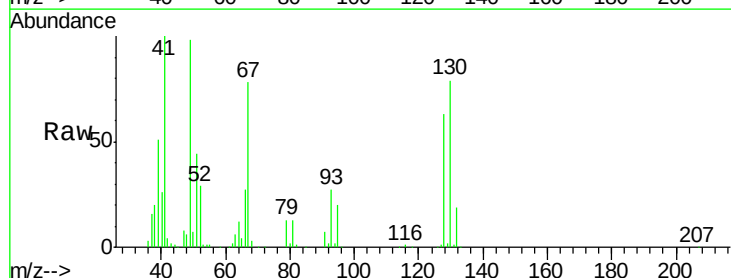
Abundance Ion 95.90 (95.60 to 96.60): VU0
Ion 60.90 (60.60 to 61.60): VU0
Ion 97.90 (97.60 to 98.60): VU0



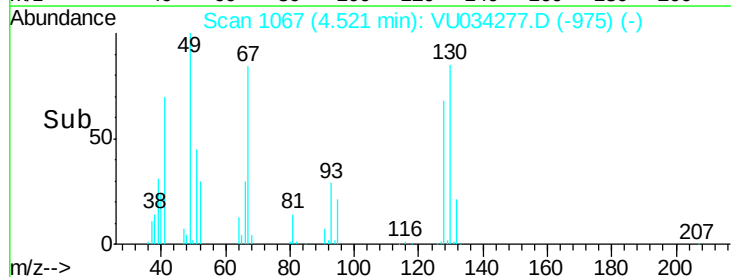
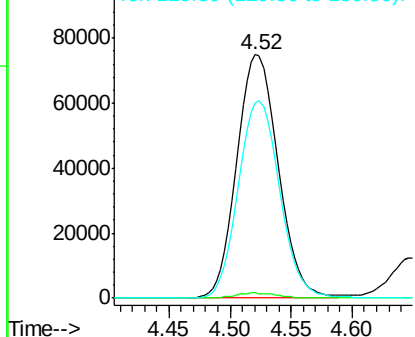
#28

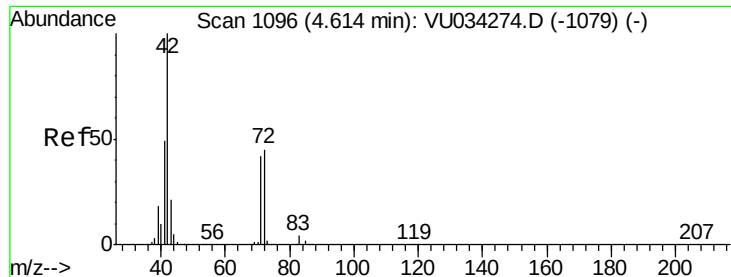
Bromochloromethane
Concen: 45.494 ug/l
RT: 4.52 min Scan# 1067
Delta R.T. -0.00 min
Lab File: VU034277.D
Acq: 05 Sep 2019 12:10

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	176361		
129	2.1	0.0	3.8	
130	81.2	65.2	97.8	



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





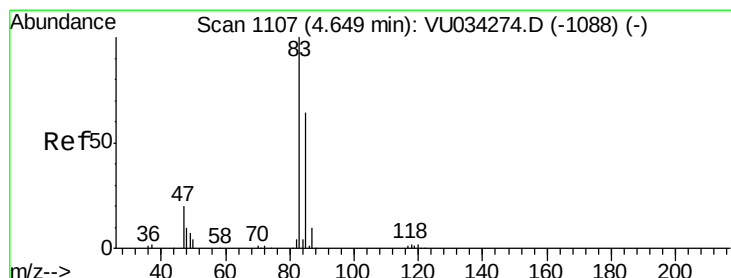
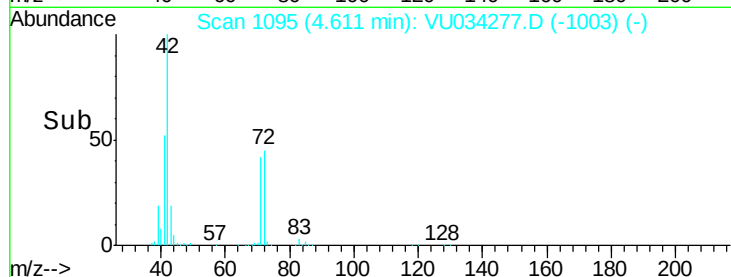
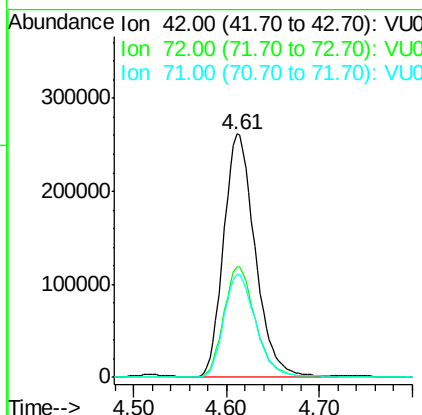
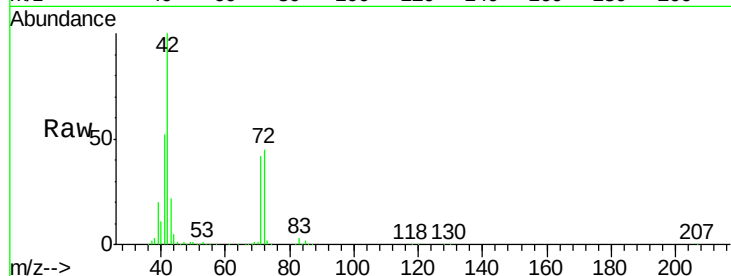
#29
Tetrahydrofuran
Concen: 277.812 ug/l
RT: 4.61 min Scan# 1095
Delta R.T. -0.00 min
Lab File: VU034277.D
Acq: 05 Sep 2019 12:10

Instrument :
MSVOA_U
ClientSampleId :
ICVVU090619

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.9	36.6	54.8
71	43.2	34.3	51.5

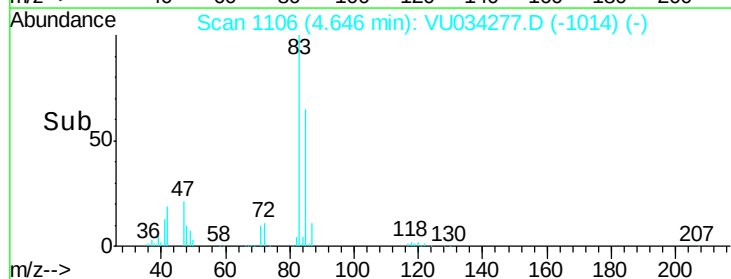
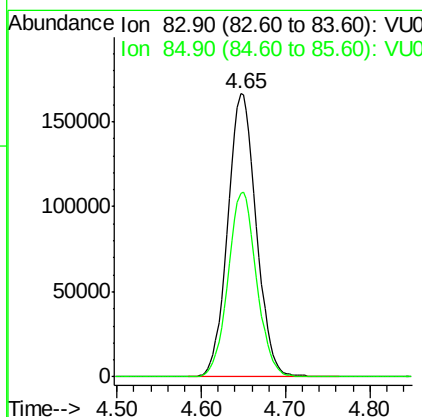
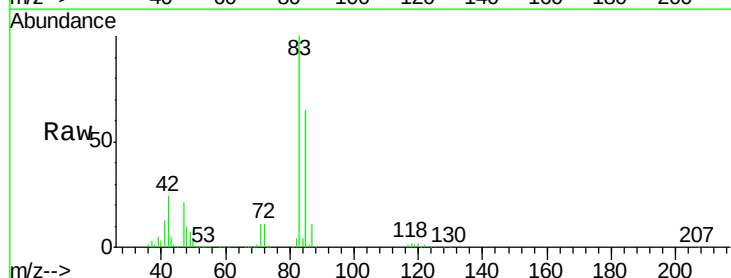
Manual Integrations
APPROVED

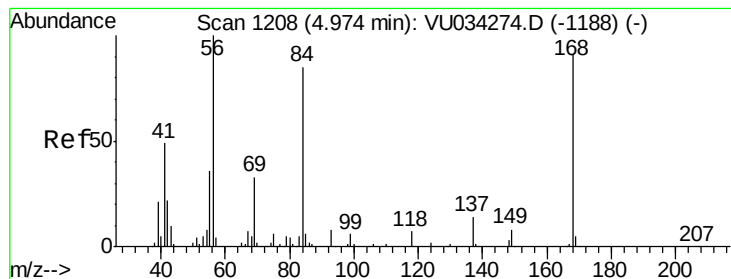
MMDadoda
9/6/2019 3:21:46 PM



#30
Chloroform
Concen: 45.641 ug/l
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU034277.D
Acq: 05 Sep 2019 12:10

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.5	77.3





#31

Cyclohexane

Concen: 47.902 ug/l

RT: 4.97 min Scan# 1207

Delta R.T. -0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

Instrument :

MSVOA_U

ClientSampleId :

ICVVU090619

Tot Ion: 56 Resp: 295352

Ion Ratio Lower Upper

56 100

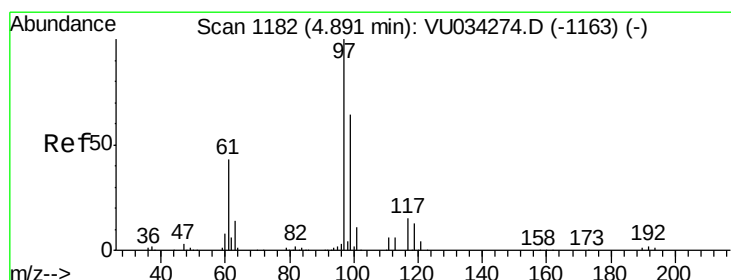
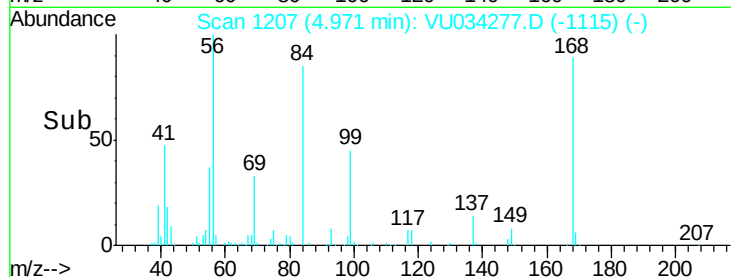
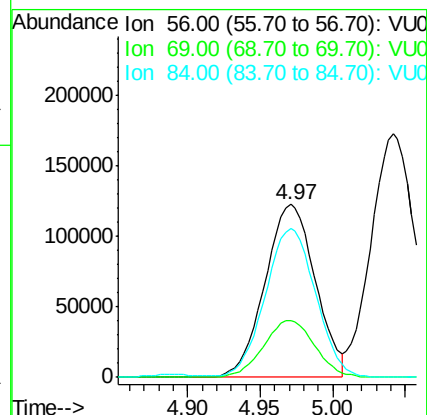
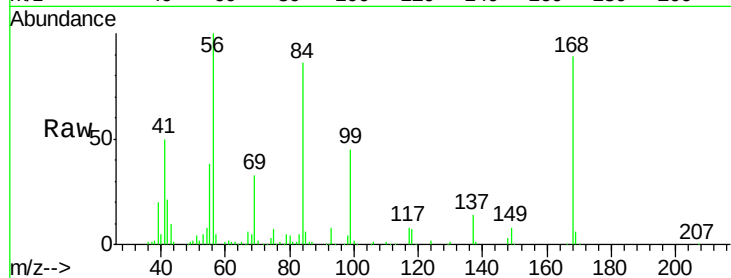
69 33.2 26.7 40.1

84 85.0 68.2 102.4

Manual Integrations
APPROVED

MMDadoda

9/6/2019 3:21:46 PM



#32

1,1,1-Trichloroethane

Concen: 47.472 ug/l

RT: 4.89 min Scan# 1182

Delta R.T. 0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

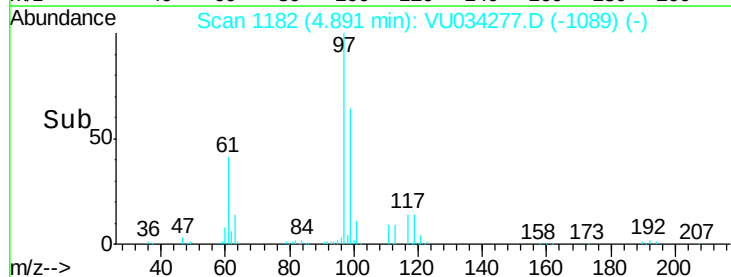
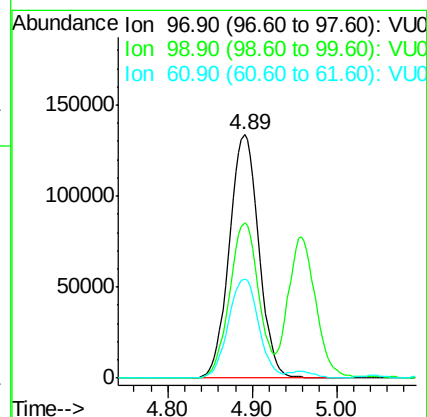
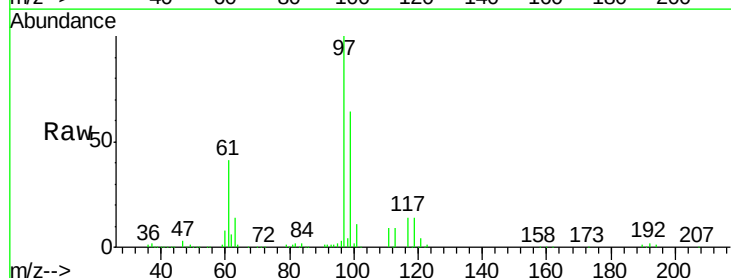
Tgt Ion: 97 Resp: 325151

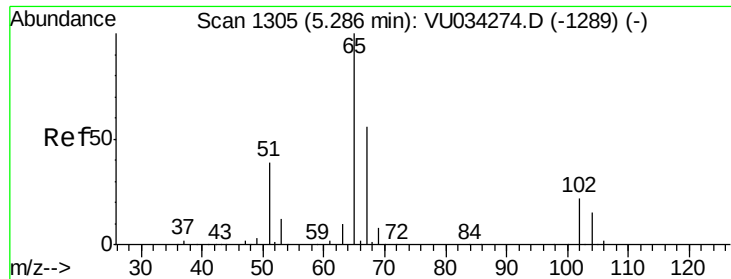
Ion Ratio Lower Upper

97 100

99 63.2 50.9 76.3

61 41.7 34.7 52.1





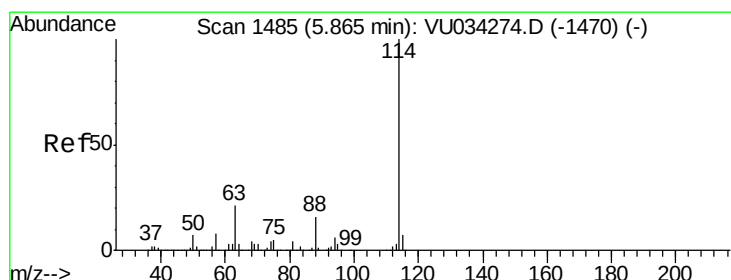
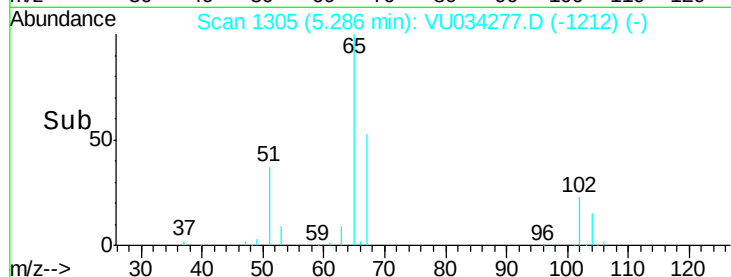
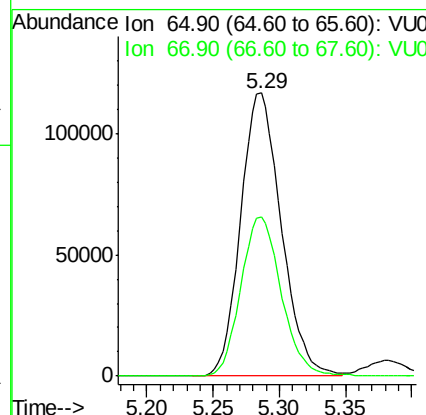
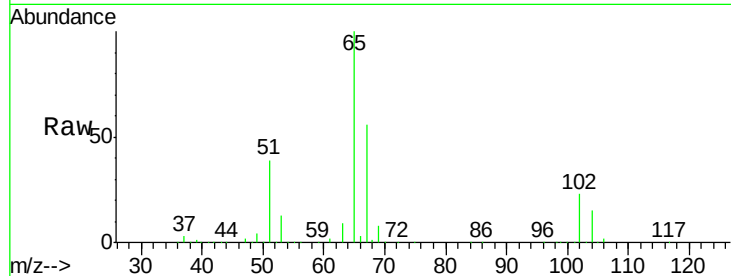
#33
 1,2-Dichloroethane-d4
 Concen: 47.278 ug/l
 RT: 5.29 min Scan# 1305
 Delta R.T. 0.00 min
 Lab File: VU034277.D
 Acq: 05 Sep 2019 12:10

Instrument :
 MSVOA_U
 ClientSampleId :
 ICVVU090619

Tot Ion	Ratio	Resp	Lower	Upper
65	100	248870		
67	56.2	0.0	112.4	

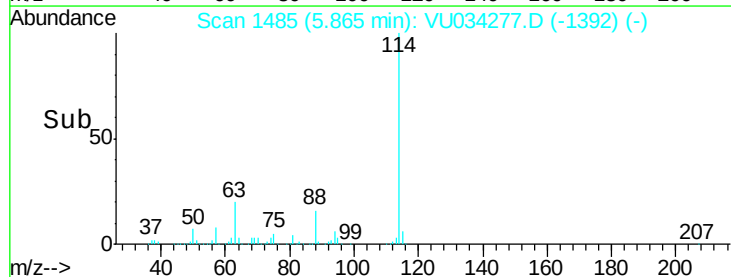
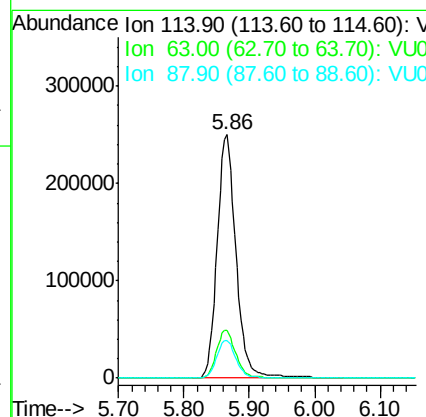
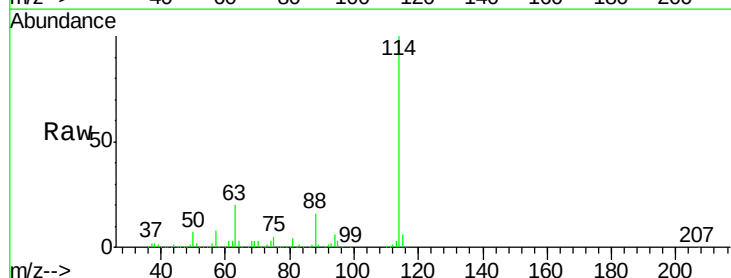
Manual Integrations
 APPROVED

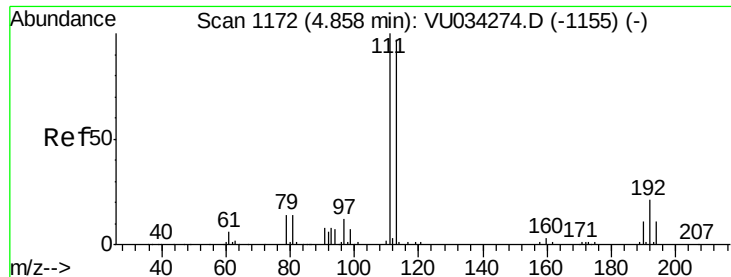
MMDadoda
 9/6/2019 3:21:46 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VU034277.D
 Acq: 05 Sep 2019 12:10

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	504055		
63	19.7	0.0	42.4	
88	15.6	0.0	32.4	





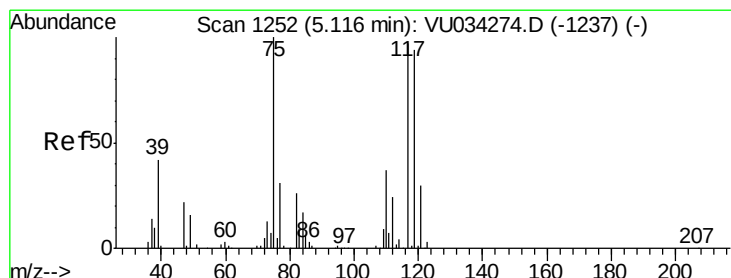
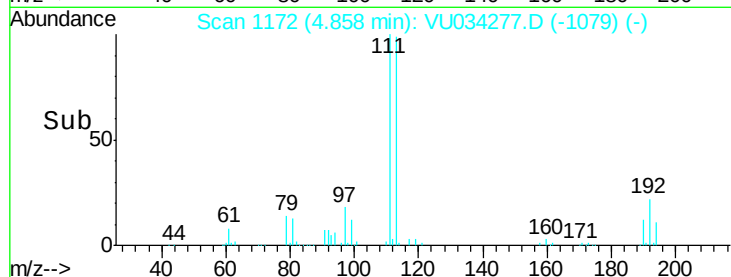
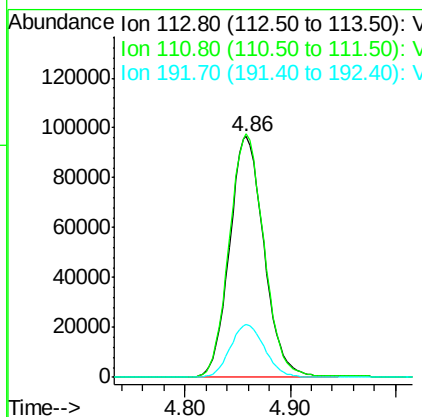
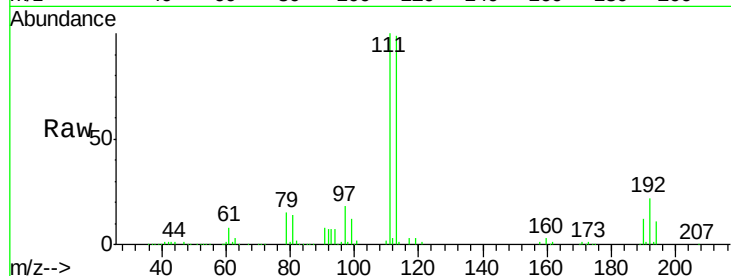
#35
 Dibromofluoromethane
 Concen: 46.614 ug/l
 RT: 4.86 min Scan# 1172
 Delta R.T. 0.00 min
 Lab File: VU034277.D
 Acq: 05 Sep 2019 12:10

Instrument :
 MSVOA_U
 ClientSampleId :
 ICVVU090619

Tot Ion	Ratio	Resp	Lower	Upper
113	100	218633		
111	101.8	81.5	122.3	
192	22.1	17.8	26.8	

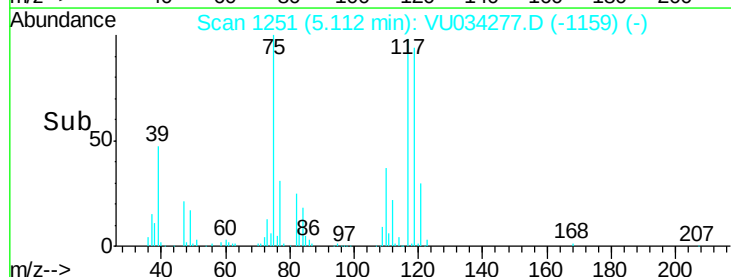
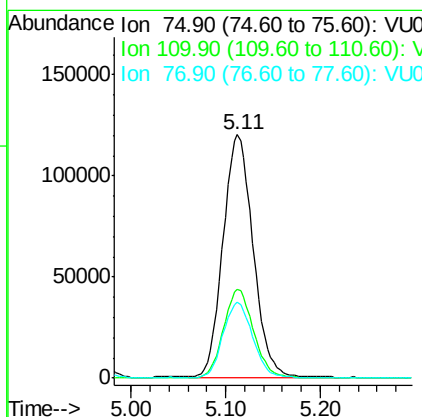
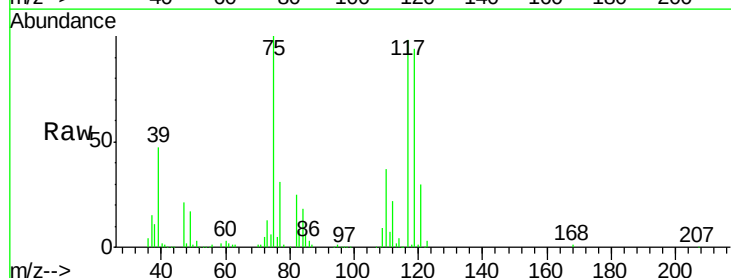
Manual Integrations
 APPROVED

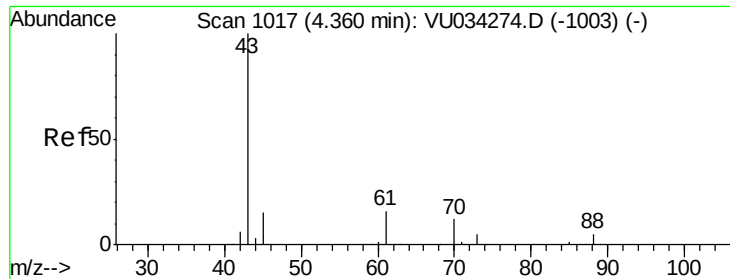
MMDadoda
 9/6/2019 3:21:46 PM



#36
 1,1-Dichloropropene
 Concen: 48.326 ug/l
 RT: 5.11 min Scan# 1251
 Delta R.T. -0.00 min
 Lab File: VU034277.D
 Acq: 05 Sep 2019 12:10

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	264178		
110	36.7	18.3	54.9	
77	30.6	24.9	37.3	





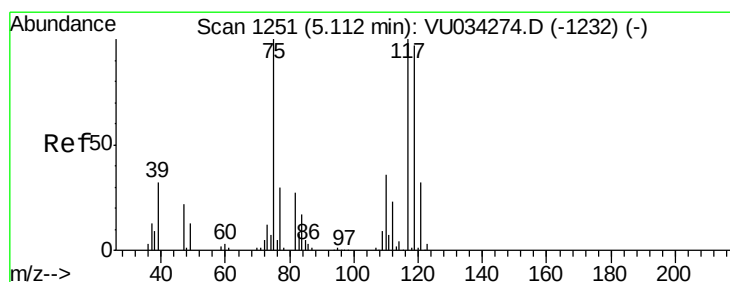
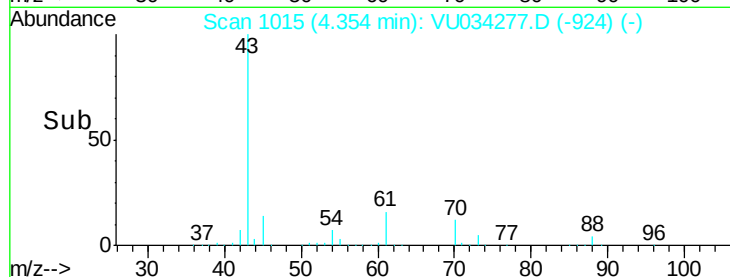
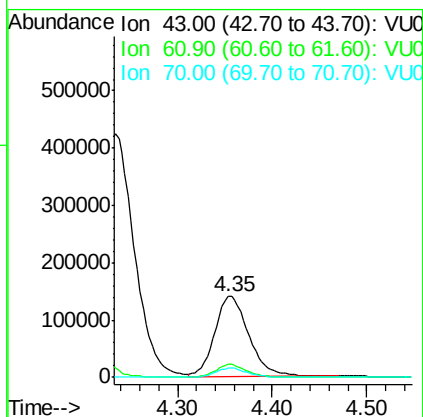
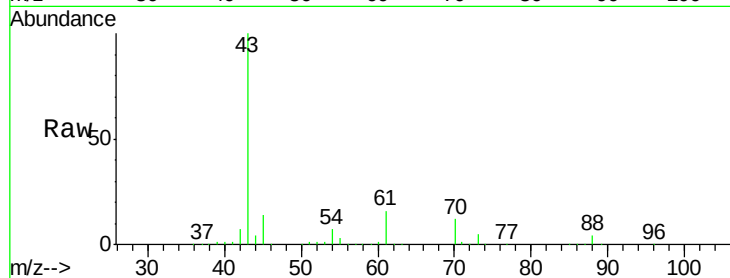
#37
Ethyl Acetate
Concen: 54.088 ug/l
RT: 4.35 min Scan# 1015
Delta R.T. -0.01 min
Lab File: VU034277.D
Acq: 05 Sep 2019 12:10

Instrument :
MSVOA_U
ClientSampleId :
ICVVU090619

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.8	12.3	18.5
70	11.3	9.1	13.7

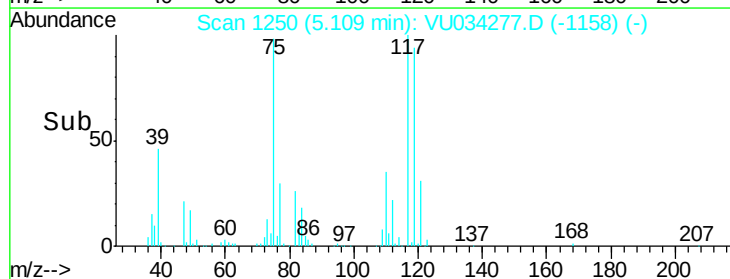
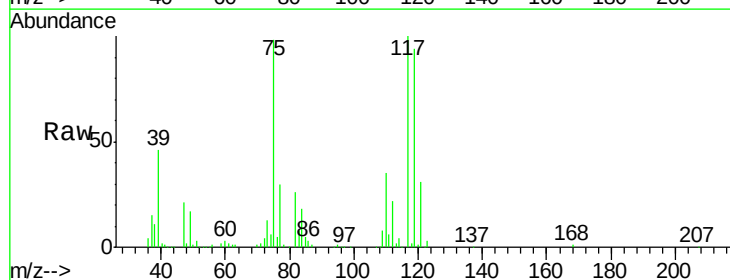
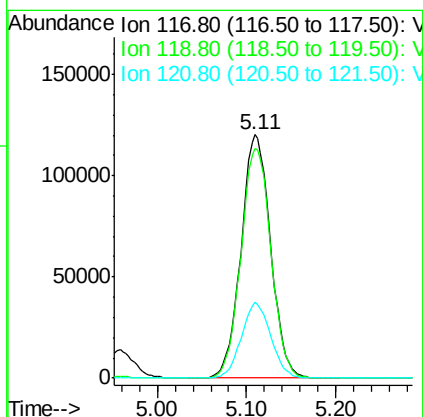
Manual Integrations
APPROVED

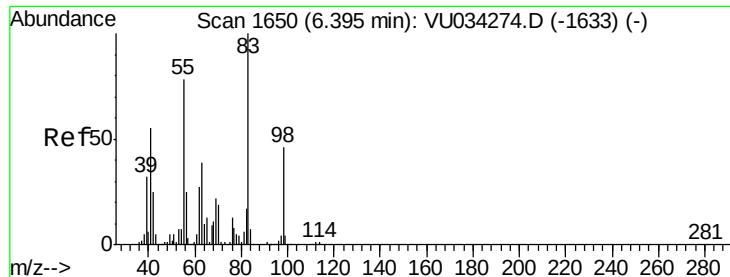
MMDadoda
9/6/2019 3:21:46 PM



#38
Carbon Tetrachloride
Concen: 47.260 ug/l
RT: 5.11 min Scan# 1250
Delta R.T. -0.00 min
Lab File: VU034277.D
Acq: 05 Sep 2019 12:10

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.6	77.8	116.6
121	31.1	25.2	37.8





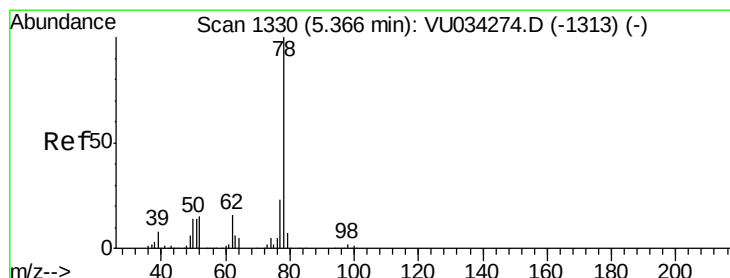
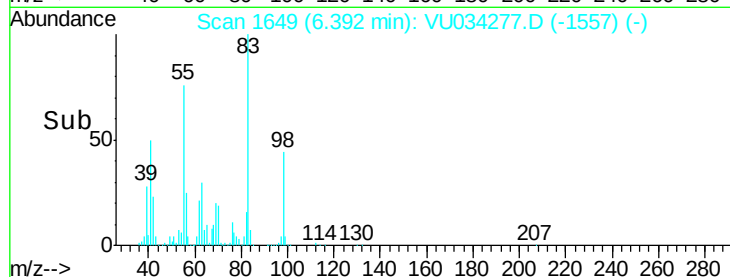
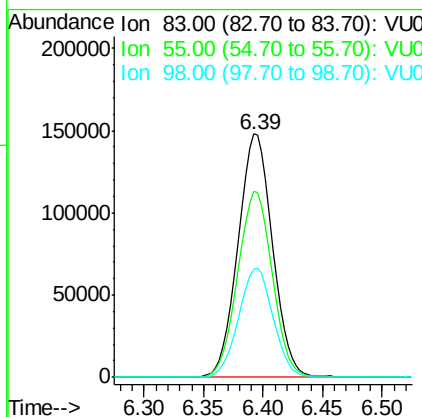
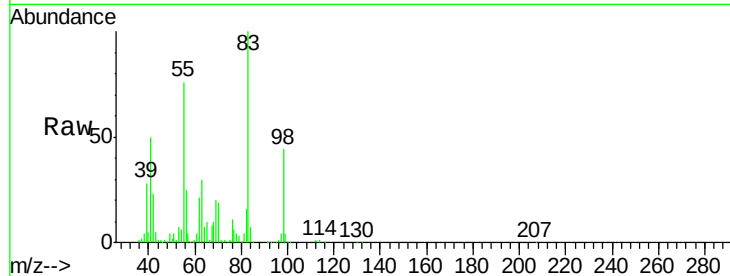
#39
Methylvlcyclohexane
Concen: 51.018 ug/l
RT: 6.39 min Scan# 1649
Delta R.T. -0.00 min
Lab File: VU034277.D
Acq: 05 Sep 2019 12:10

Instrument :
MSVOA_U
ClientSampleId :
ICVVU090619

Tot Ion	Ratio	Resp	Lower	Upper
83	100	298133		
55	76.3	62.1	93.1	
98	44.4	37.0	55.6	

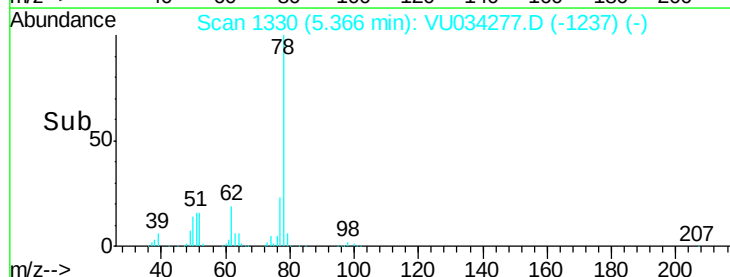
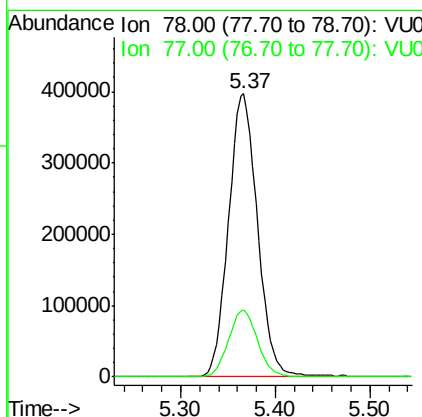
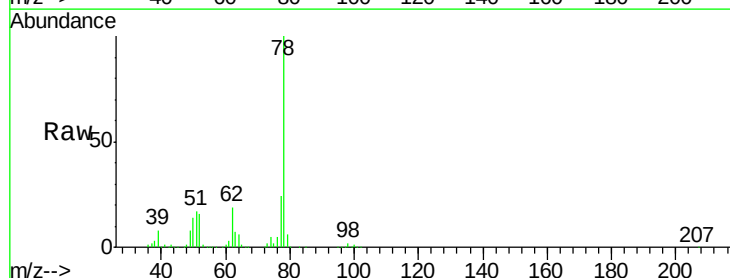
Manual Integrations
APPROVED

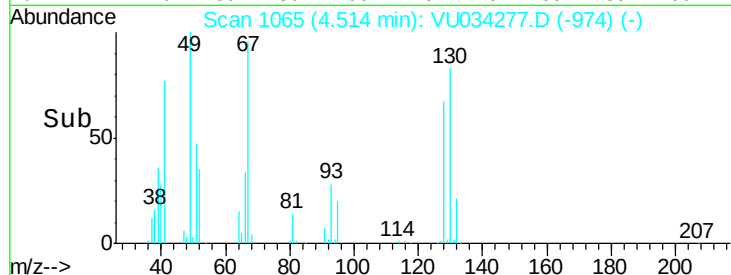
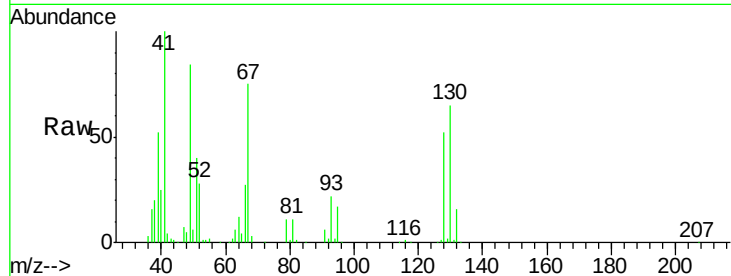
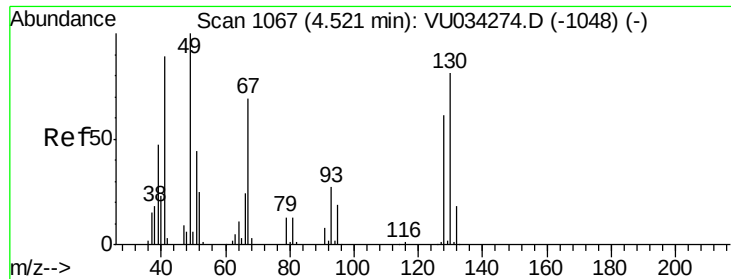
MMDadoda
9/6/2019 3:21:46 PM



#40
Benzene
Concen: 47.933 ug/l
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU034277.D
Acq: 05 Sep 2019 12:10

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	845493		
77	23.6	18.7	28.1	





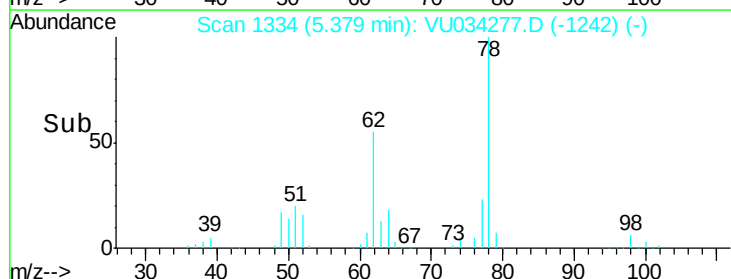
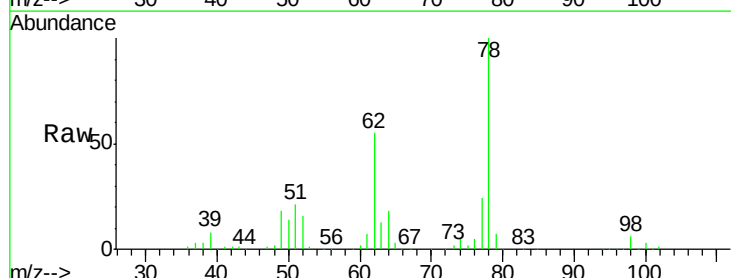
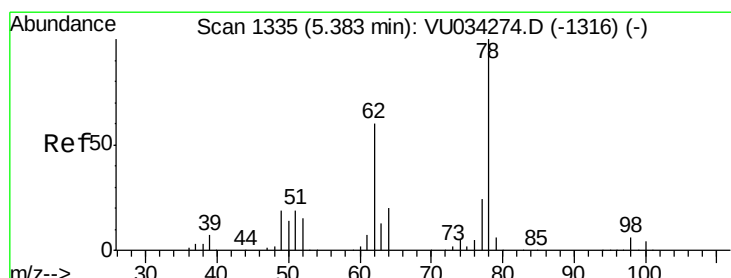
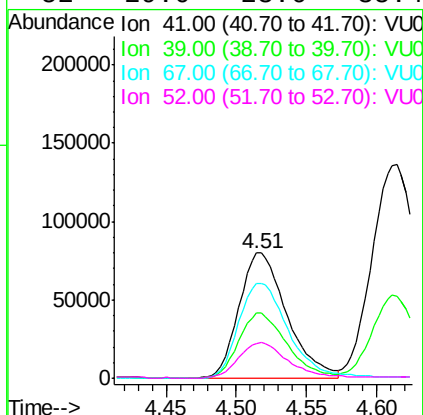
#41
Methacrylonitrile
Concen: 54.966 ug/l
RT: 4.51 min Scan# 1065
Delta R.T. -0.01 min
Lab File: VU034277.D
Acq: 05 Sep 2019 12:10

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		189232		
39	52.0	41.0	61.4		
67	80.0	62.4	93.6		
52	29.0	23.6	35.4		

Instrument :
MSVOA_U
ClientSampleId :
ICVVU090619

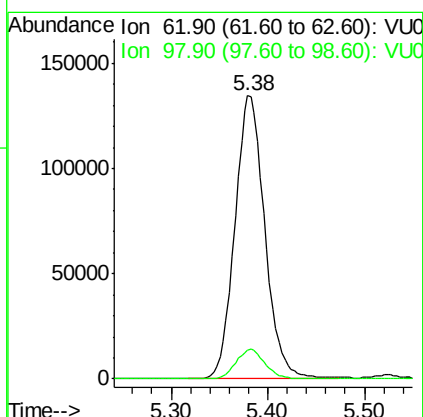
Manual Integrations
APPROVED

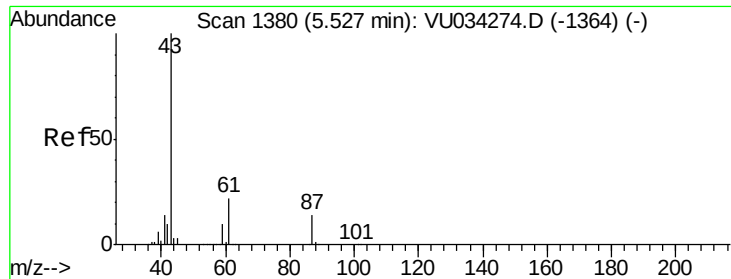
MMDadoda
9/6/2019 3:21:46 PM



#42
1,2-Dichloroethane
Concen: 47.269 ug/l
RT: 5.38 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VU034277.D
Acq: 05 Sep 2019 12:10

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		289483		
98	10.0	0.0	20.0		





#43

Isopropyl Acetate

Concen: 52.869 ug/l

RT: 5.53 min Scan# 1380

Delta R.T. 0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

Instrument :

MSVOA_U

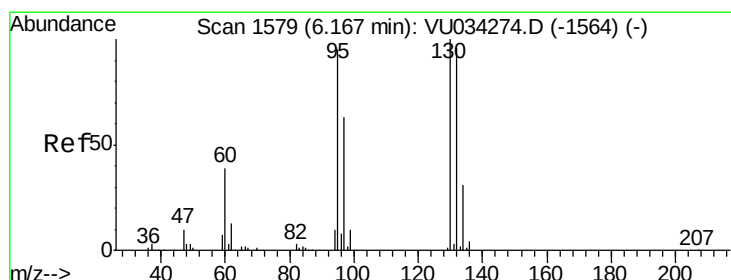
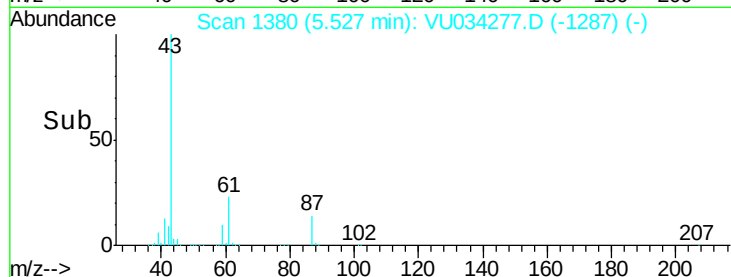
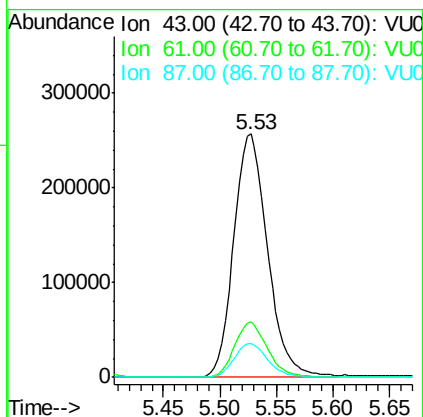
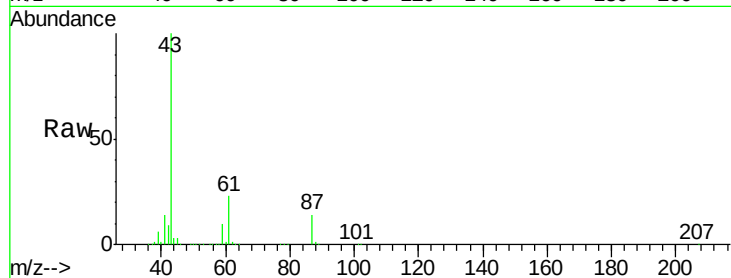
ClientSampleId :

ICVVU090619

Tot Ion:	43	Resp:	533058
Ion	Ratio	Lower	Upper
43	100		
61	22.0	17.1	25.7
87	13.8	11.1	16.7

Manual Integrations
APPROVED

MMDadoda
9/6/2019 3:21:46 PM



#44

Trichloroethene

Concen: 47.180 ug/l

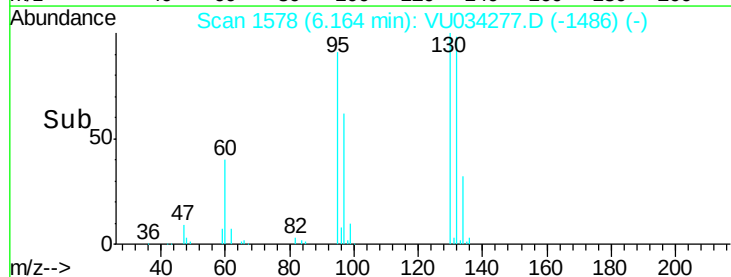
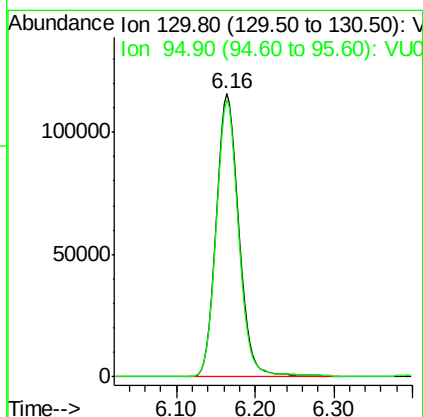
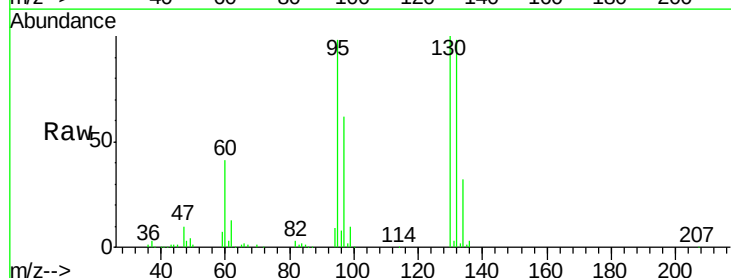
RT: 6.16 min Scan# 1578

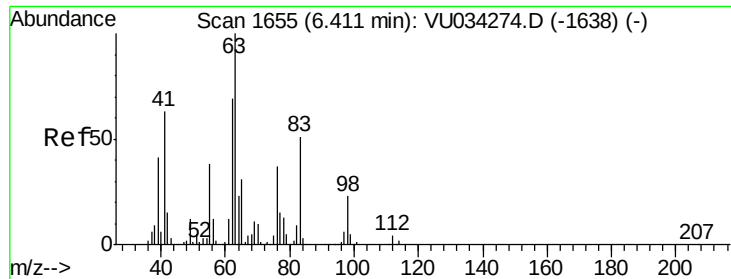
Delta R.T. -0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

Tgt Ion:	130	Resp:	230291
Ion	Ratio	Lower	Upper
130	100		
95	97.9	0.0	189.2





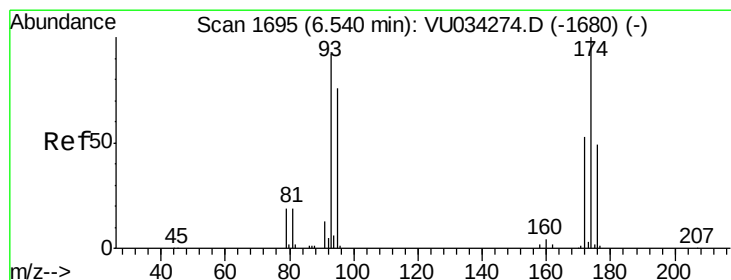
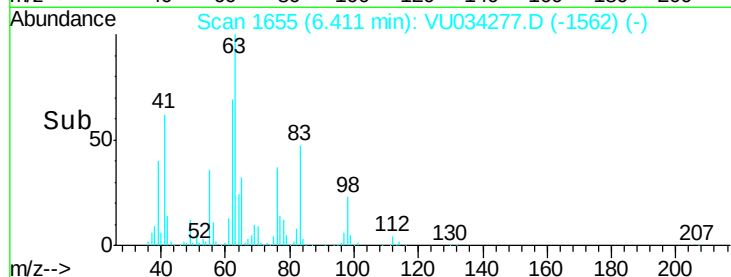
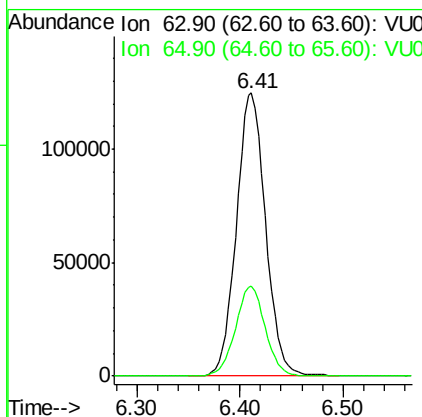
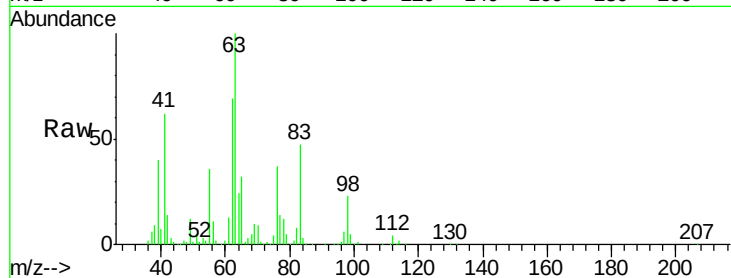
#45
 1,2-Dichloropropane
 Concen: 47.641 ug/l
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU034277.D
 Acq: 05 Sep 2019 12:10

Instrument :
 MSVOA_U
 ClientSampled :
 ICVVU090619

Tot Ion: 63 Resp: 245670
 Ion Ratio Lower Upper
 63 100
 65 31.7 24.6 37.0

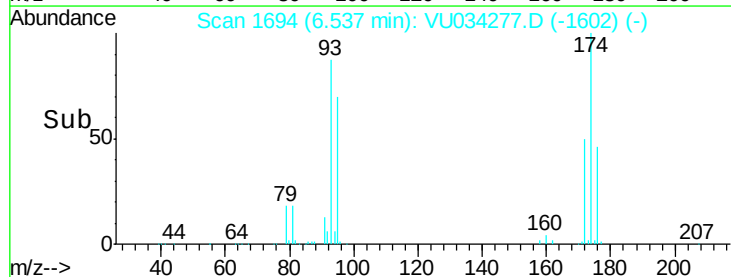
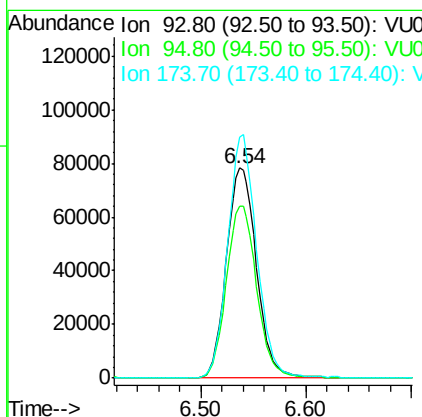
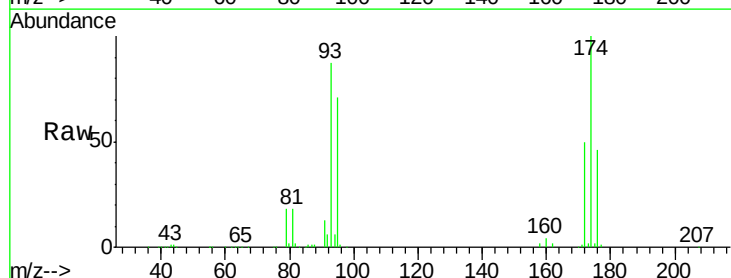
Manual Integrations
 APPROVED

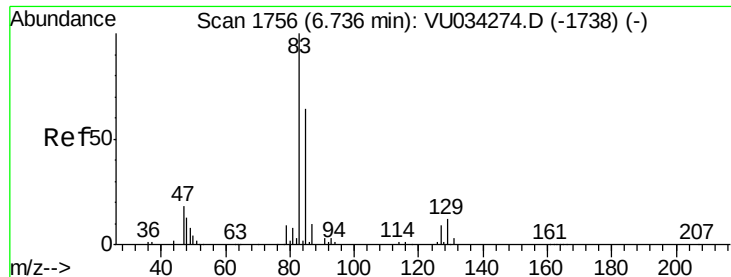
MMDadoda
 9/6/2019 3:21:46 PM



#46
 Dibromomethane
 Concen: 47.815 ug/l
 RT: 6.54 min Scan# 1694
 Delta R.T. -0.00 min
 Lab File: VU034277.D
 Acq: 05 Sep 2019 12:10

Tgt Ion: 93 Resp: 154770
 Ion Ratio Lower Upper
 93 100
 95 82.7 66.5 99.7
 174 111.3 87.8 131.6





#47

Bromodichloromethane

Concen: 47.580 ug/l

RT: 6.73 min Scan# 1755

Delta R.T. -0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

Instrument :

MSVOA_U

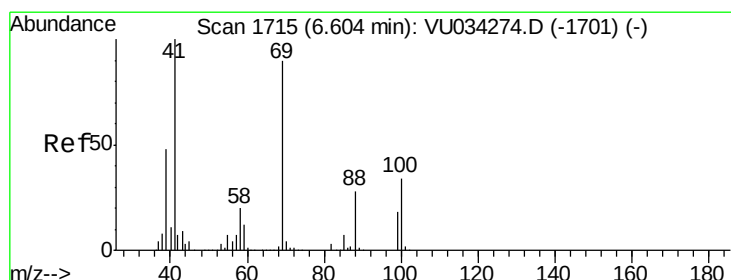
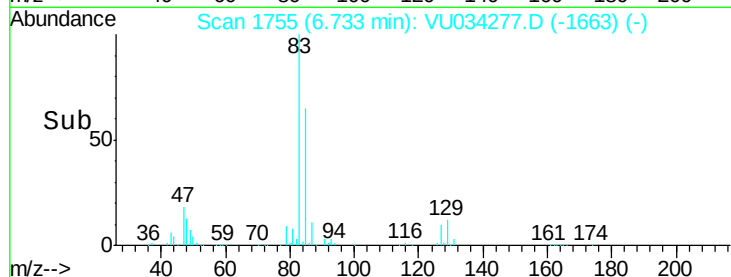
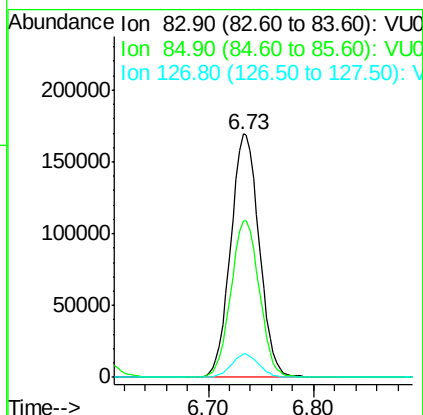
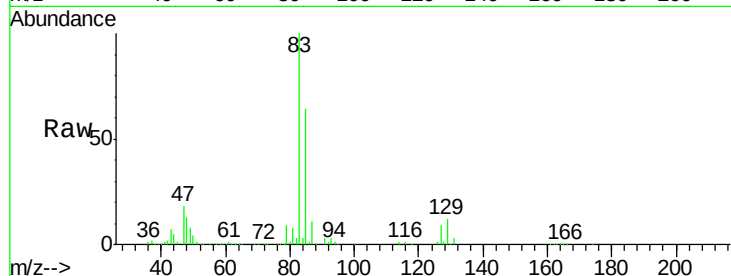
ClientSampleId :

ICVVU090619

Tot Ion:	83	Resp:	317017
Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.1	76.7
127	9.4	7.2	10.8

Manual Integrations
APPROVED

MMDadoda
9/6/2019 3:21:46 PM



#48

Methyl methacrylate

Concen: 53.267 ug/l

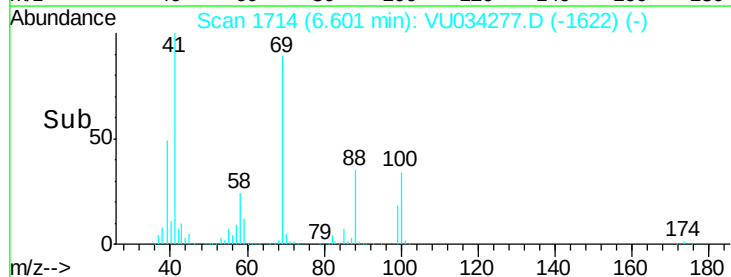
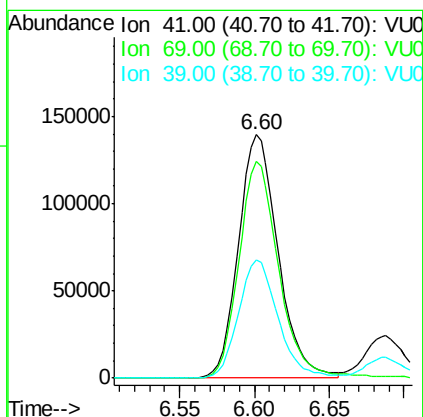
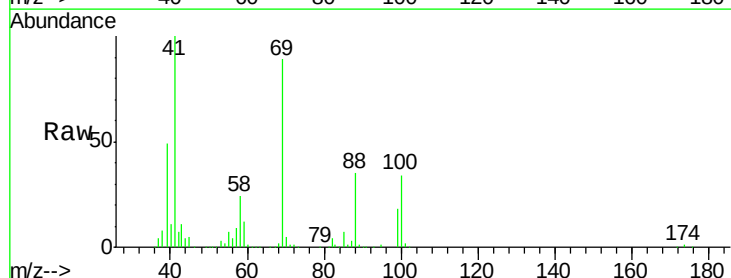
RT: 6.60 min Scan# 1714

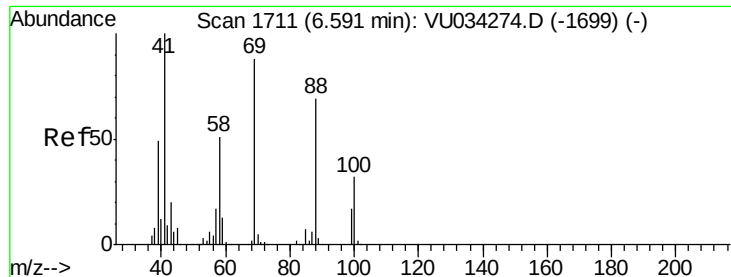
Delta R.T. -0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

Tgt Ion:	41	Resp:	255084
Ion	Ratio	Lower	Upper
41	100		
69	90.7	72.8	109.2
39	48.4	38.6	58.0





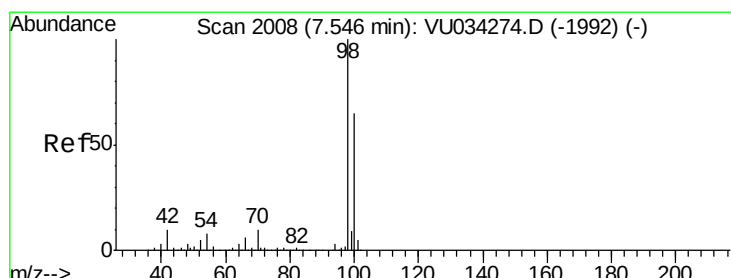
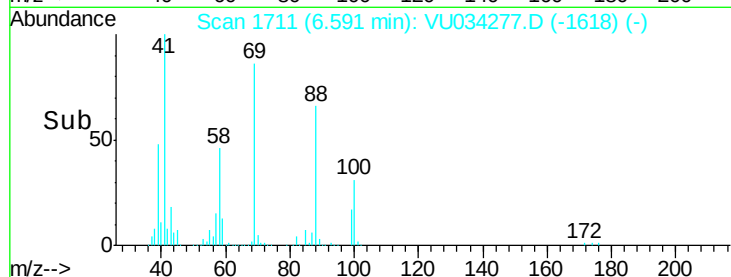
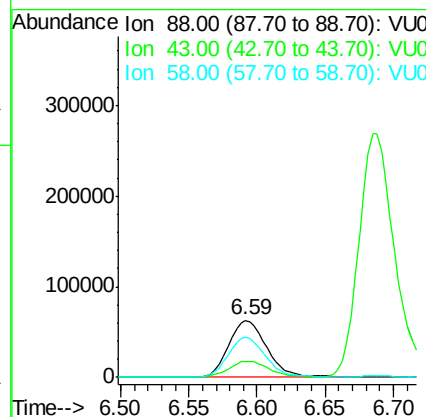
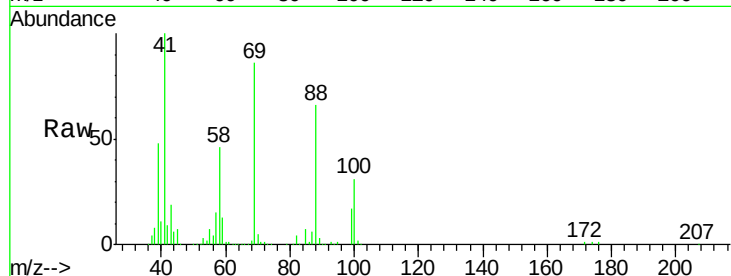
#49
1,4-Dioxane
Concen: 1138.147 ug/l
RT: 6.59 min Scan# 1711
Delta R.T. 0.00 min
Lab File: VU034277.D
Acq: 05 Sep 2019 12:10

Instrument :
MSVOA_U
ClientSampleId :
ICVVU090619

Tot Ion	Ratio	Resp	Lower	Upper
88	100	119016		
43	28.6	23.8	35.6	
58	71.6	58.4	87.6	

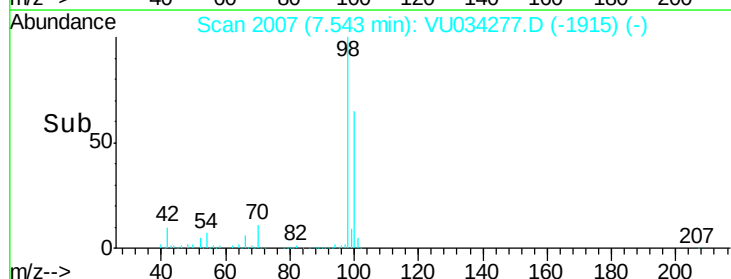
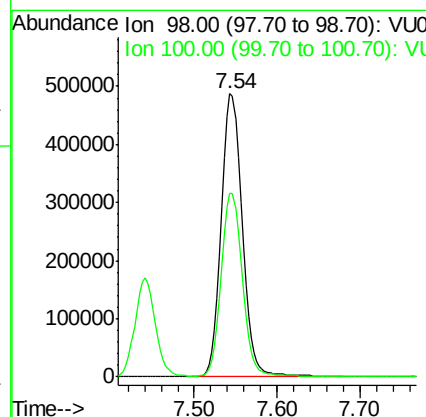
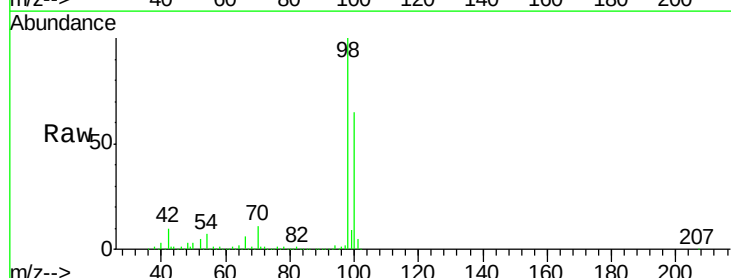
Manual Integrations
APPROVED

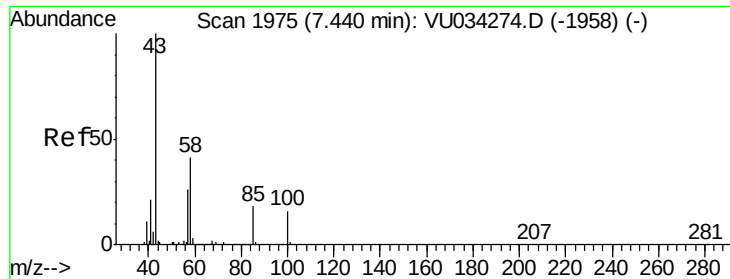
MMDadoda
9/6/2019 3:21:46 PM



#50
Toluene-d8
Concen: 48.855 ug/l
RT: 7.54 min Scan# 2007
Delta R.T. -0.00 min
Lab File: VU034277.D
Acq: 05 Sep 2019 12:10

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	860889		
100	64.1	51.7	77.5	





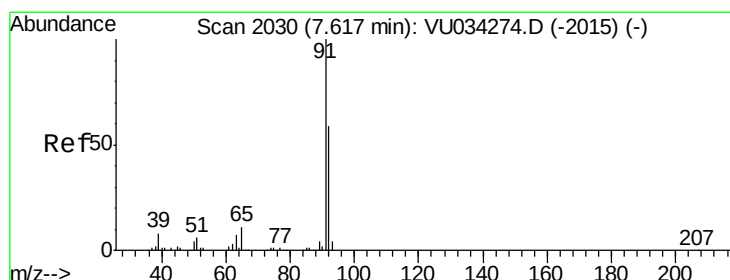
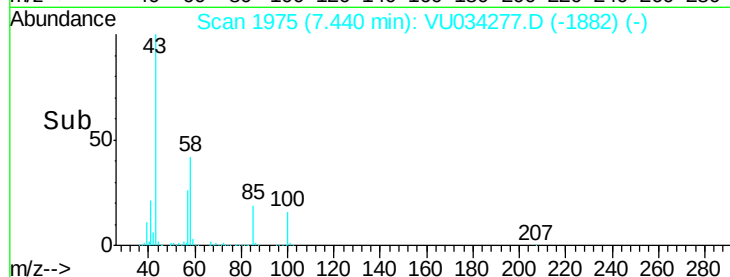
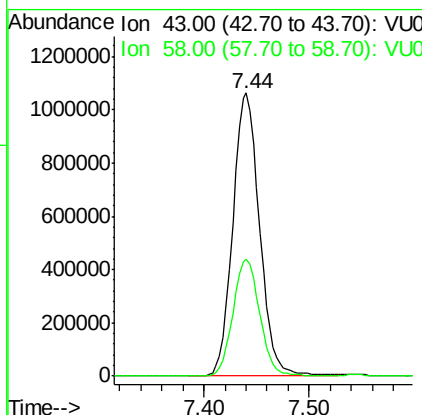
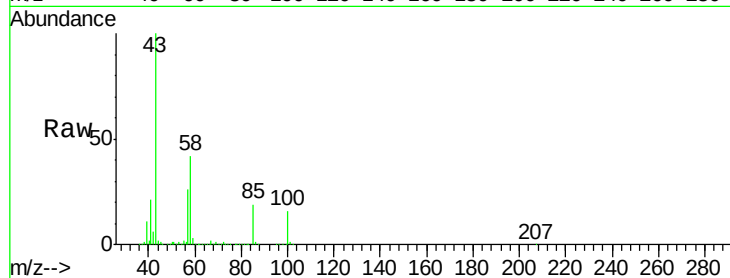
#51
 4-Methyl-2-Pentanone
 Concen: 266.959 ug/l
 RT: 7.44 min Scan# 1975
 Delta R.T. 0.00 min
 Lab File: VU034277.D
 Acq: 05 Sep 2019 12:10

Instrument :
 MSVOA_U
 ClientSampleId :
 ICVVU090619

Tot Ion: 43 Resp: 1863138
 Ion Ratio Lower Upper
 43 100
 58 41.5 33.0 49.4

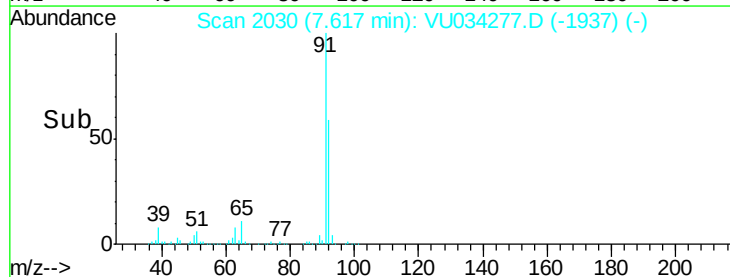
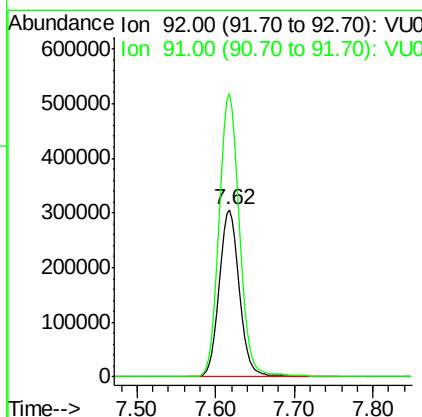
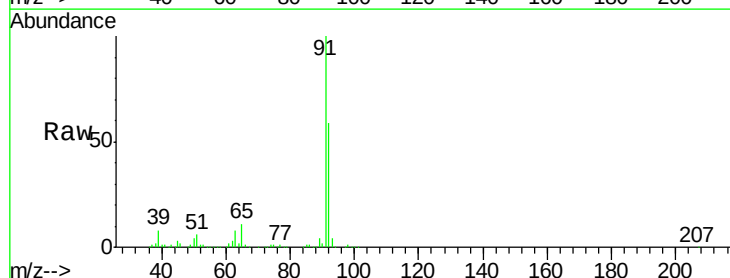
Manual Integrations
 APPROVED

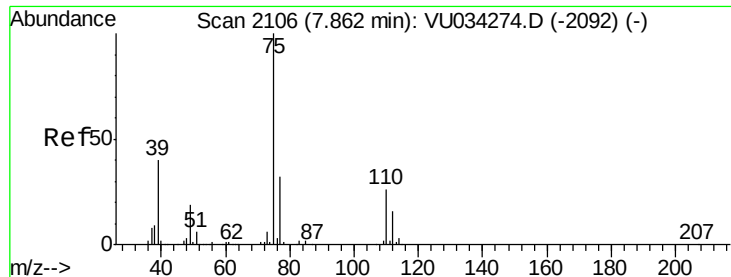
MMDadoda
 9/6/2019 3:21:46 PM



#52
 Toluene
 Concen: 48.844 ug/l
 RT: 7.62 min Scan# 2030
 Delta R.T. 0.00 min
 Lab File: VU034277.D
 Acq: 05 Sep 2019 12:10

Tgt Ion: 92 Resp: 540469
 Ion Ratio Lower Upper
 92 100
 91 171.9 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 51.160 ug/l

RT: 7.86 min Scan# 2105

Delta R.T. -0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

Tot Ion: 75 Resp: 353350

Ion Ratio Lower Upper

75 100

77 31.2 25.7 38.5

Instrument :

MSVOA_U

ClientSampleId :

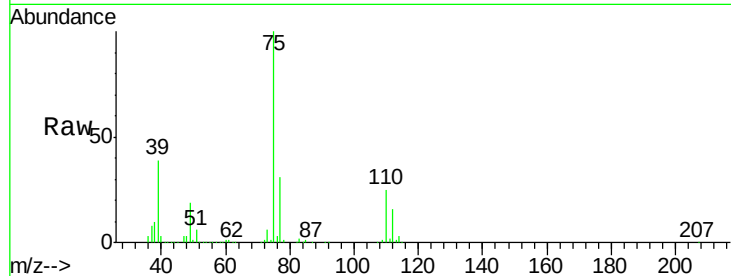
ICVVU090619

Manual Integrations

APPROVED

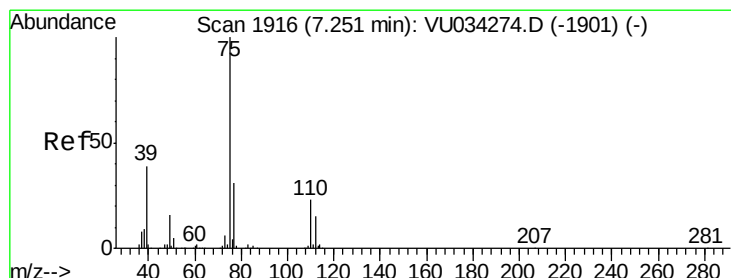
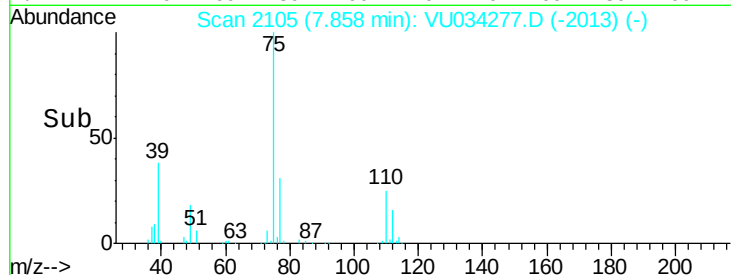
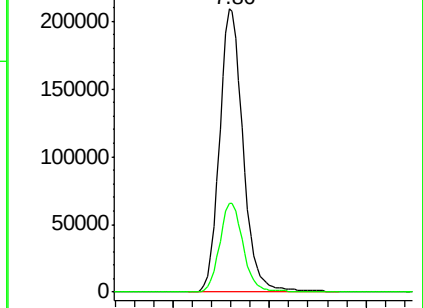
MMDadoda

9/6/2019 3:21:46 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: 50.838 ug/l

RT: 7.25 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

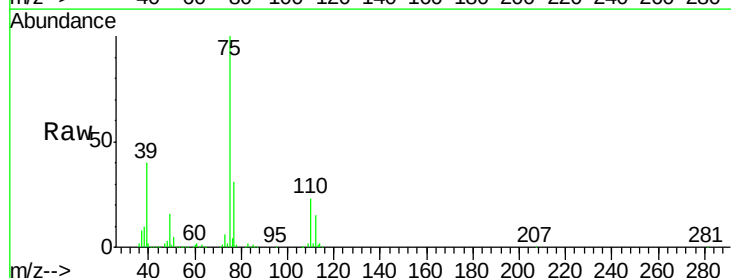
Tgt Ion: 75 Resp: 385373

Ion Ratio Lower Upper

75 100

77 31.5 25.1 37.7

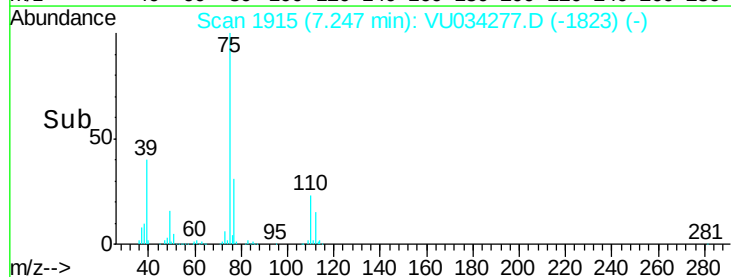
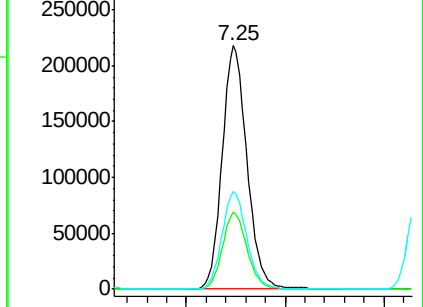
39 40.0 31.2 46.8

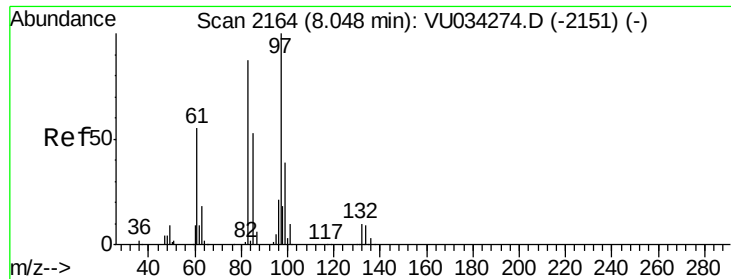


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0





#55

1,1,2-Trichloroethane

Concen: 47.570 ug/l

RT: 8.05 min Scan# 2164

Delta R.T. 0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

Instrument :

MSVOA_U

ClientSampleId :

ICVVU090619

Tot Ion: 97 Resp: 239010

Ion Ratio Lower Upper

97 100

83 88.4 69.0 103.6

85 56.4 44.2 66.2

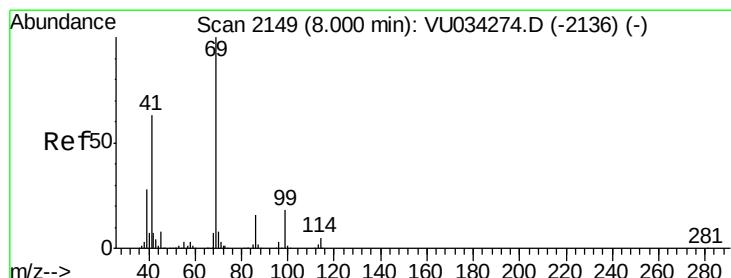
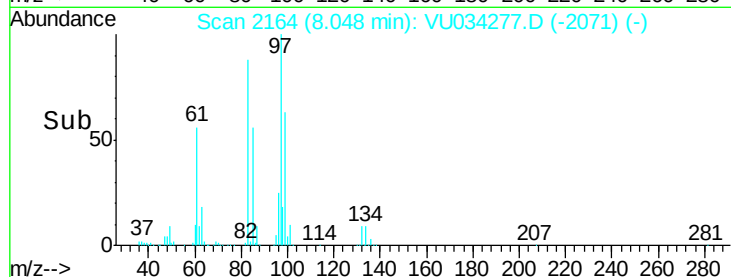
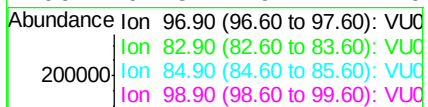
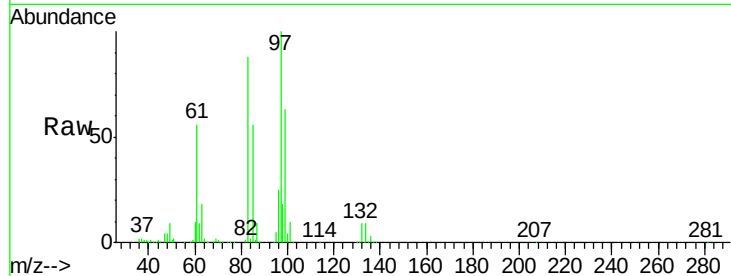
99 62.5 49.4 74.0

Manual Integrations

APPROVED

MMDadoda

9/6/2019 3:21:46 PM



#56

Ethyl methacrylate

Concen: 48.953 ug/l

RT: 8.00 min Scan# 2149

Delta R.T. 0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

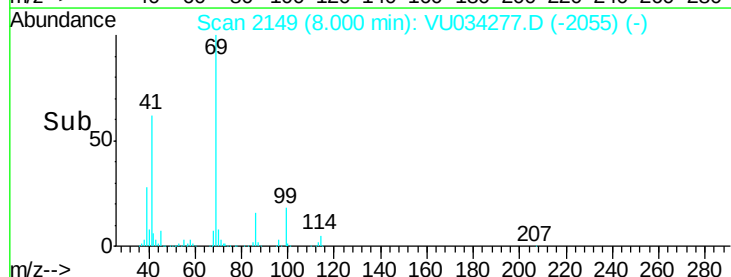
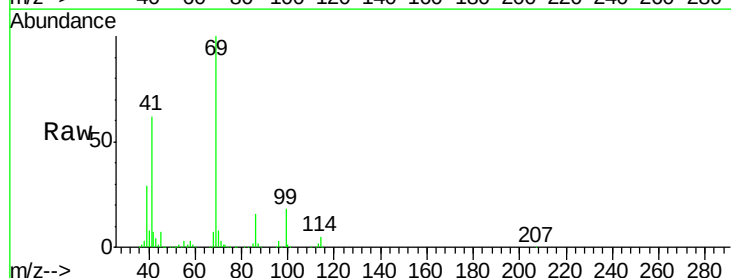
Tgt Ion: 69 Resp: 373159

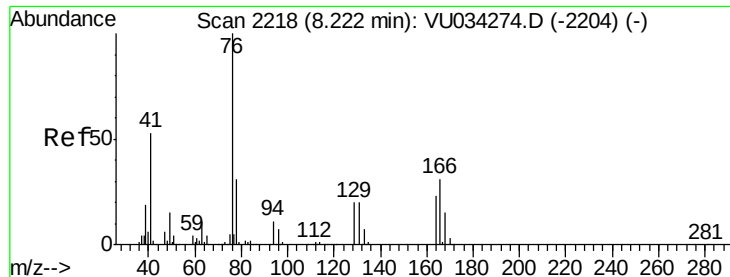
Ion Ratio Lower Upper

69 100

41 62.0 49.5 74.3

39 28.5 22.5 33.7





#57

1,3-Dichloropropane

Concen: 48.209 ug/l

RT: 8.22 min Scan# 2218

Delta R.T. 0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

Instrument :

MSVOA_U

ClientSampleId :

ICVVU090619

Tot Ion: 76 Resp: 394424

Ion Ratio Lower Upper

76 100

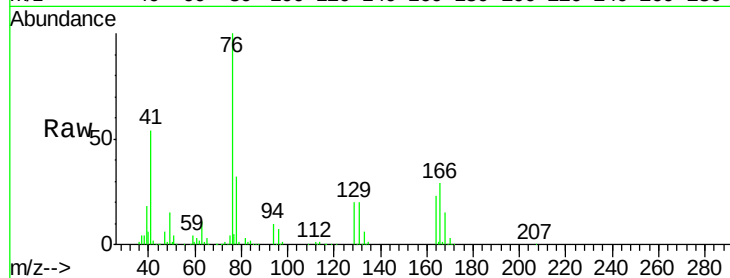
78 32.2 25.4 38.2

Manual Integrations

APPROVED

MMDadoda

9/6/2019 3:21:46 PM



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

8.22

250000

200000

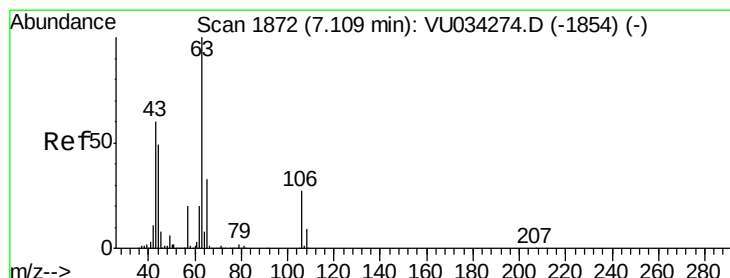
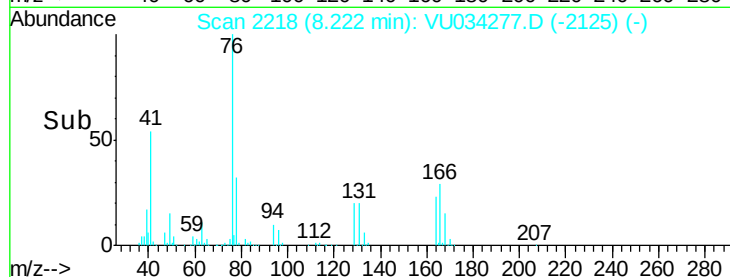
150000

100000

50000

0

Time--> 8.10 8.20 8.30



#58

2-Chloroethyl Vinyl ether

Concen: 283.583 ug/l

RT: 7.11 min Scan# 1871

Delta R.T. -0.00 min

Lab File: VU034277.D

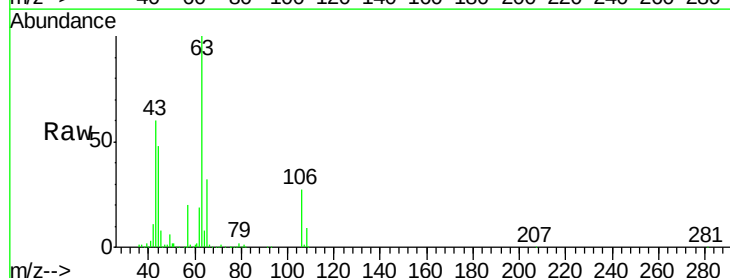
Acq: 05 Sep 2019 12:10

Tgt Ion: 63 Resp: 738551

Ion Ratio Lower Upper

63 100

106 26.9 21.6 32.4



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 105.90 (105.60 to 106.60): V

7.11

500000

400000

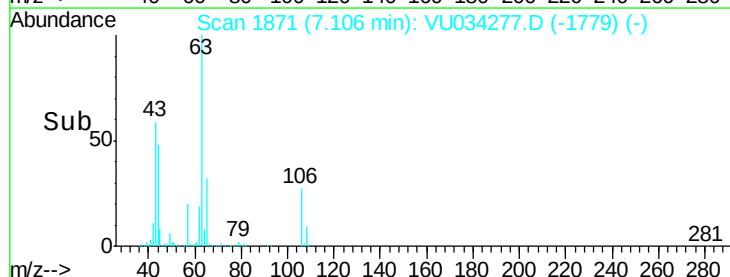
300000

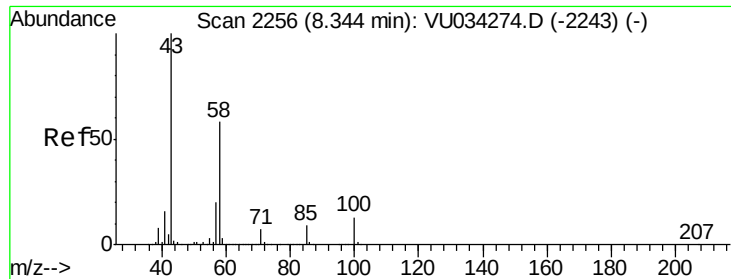
200000

100000

0

Time--> 7.00 7.10 7.20





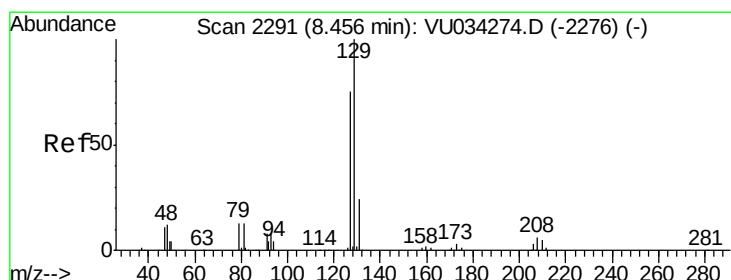
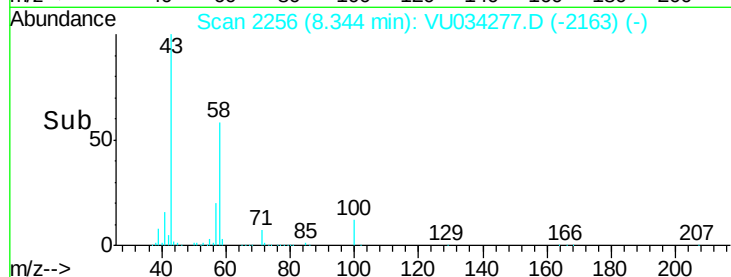
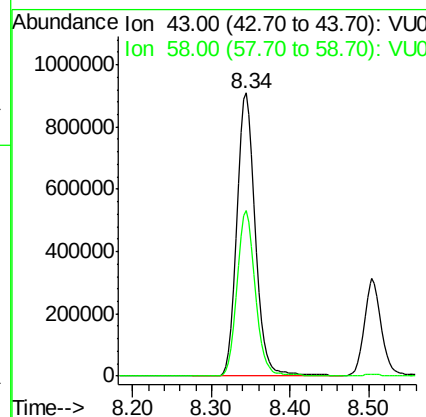
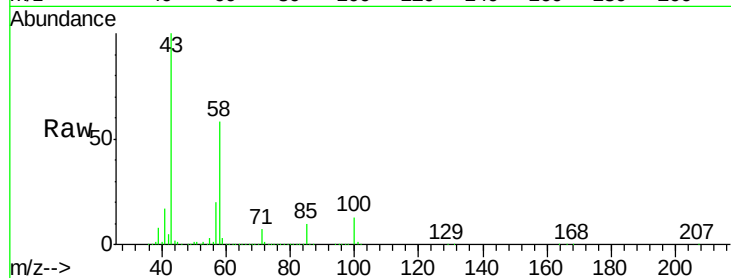
#59
2-Hexanone
Concen: 281.589 ug/l
RT: 8.34 min Scan# 2256
Delta R.T. 0.00 min
Lab File: VU034277.D
Acq: 05 Sep 2019 12:10

Instrument :
MSVOA_U
ClientSampleId :
ICVVU090619

Tot Ion: 43 Resp: 1468136
Ion Ratio Lower Upper
43 100
58 58.2 28.8 86.5

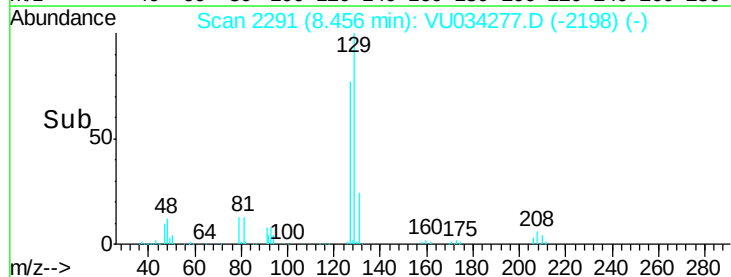
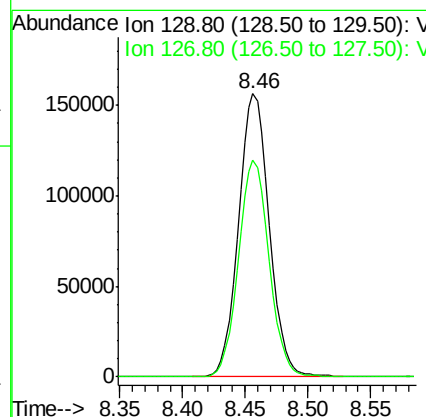
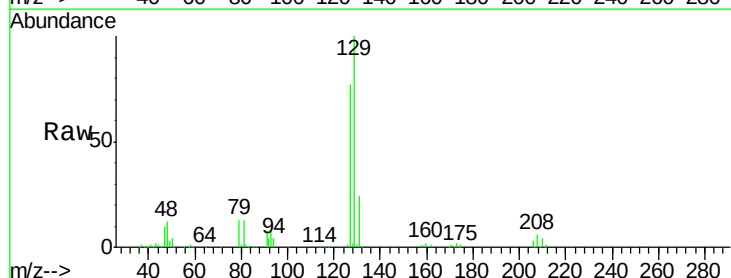
Manual Integrations
APPROVED

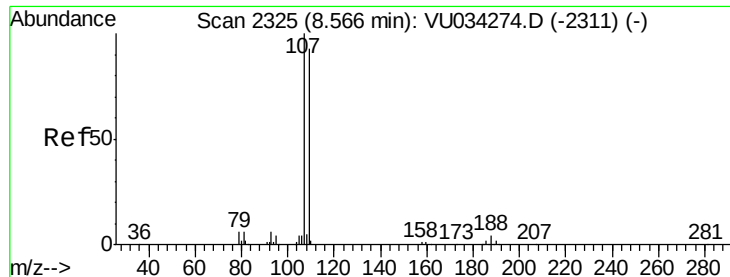
MMDadoda
9/6/2019 3:21:46 PM



#60
Dibromochloromethane
Concen: 49.344 ug/l
RT: 8.46 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU034277.D
Acq: 05 Sep 2019 12:10

Tgt Ion: 129 Resp: 265925
Ion Ratio Lower Upper
129 100
127 76.5 37.9 113.7





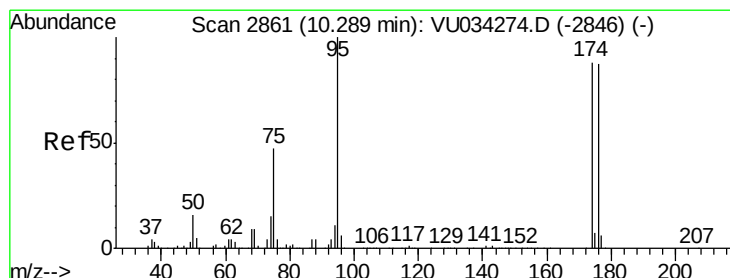
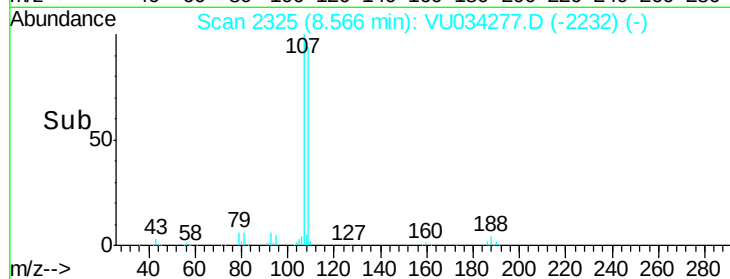
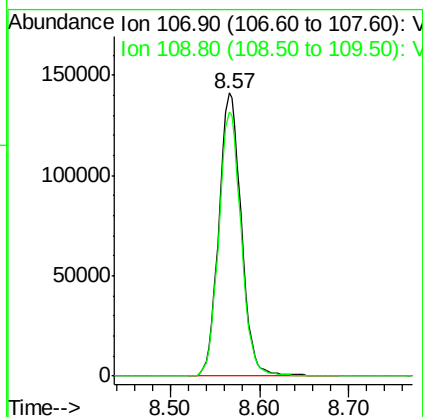
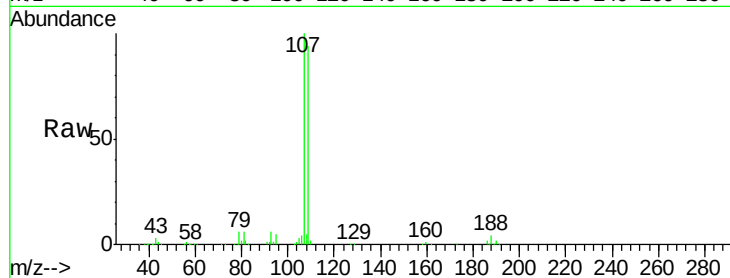
#61
 1,2-Dibromoethane
 Concen: 49.952 ug/l
 RT: 8.57 min Scan# 2325
 Delta R.T. 0.00 min
 Lab File: VU034277.D
 Acq: 05 Sep 2019 12:10

Instrument :
 MSVOA_U
 ClientSampleId :
 ICVVU090619

Tot Ion	Ratio	Resp	Lower	Upper
107	100	245653		
109	93.1	75.0	112.6	

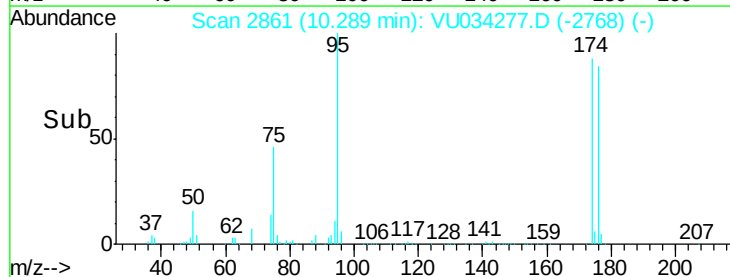
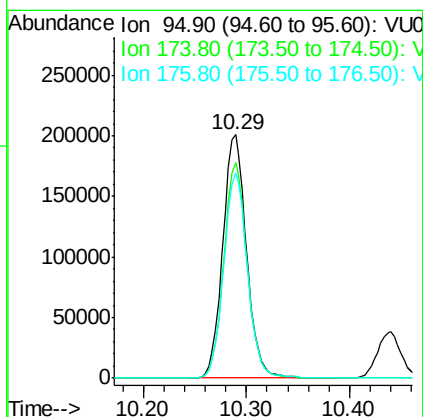
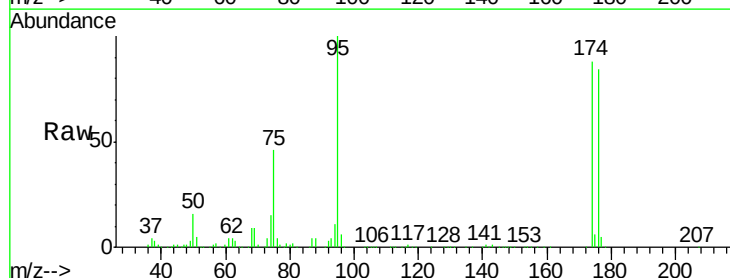
Manual Integrations
 APPROVED

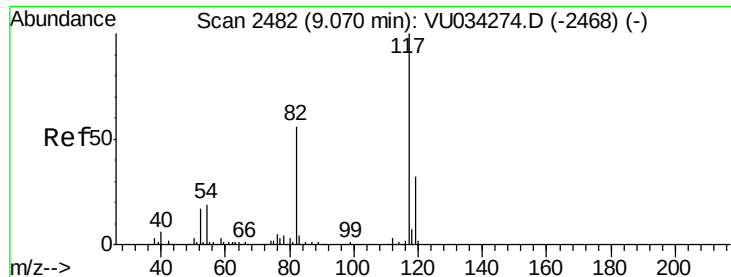
MMDadoda
 9/6/2019 3:21:46 PM



#62
 4-Bromofluorobenzene
 Concen: 47.208 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. 0.00 min
 Lab File: VU034277.D
 Acq: 05 Sep 2019 12:10

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	321181		
174	87.3	0.0	175.2	
176	84.8	0.0	168.0	





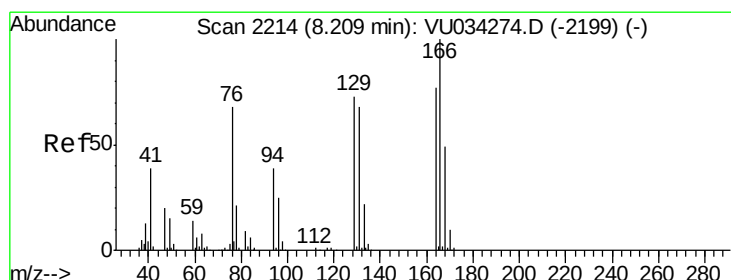
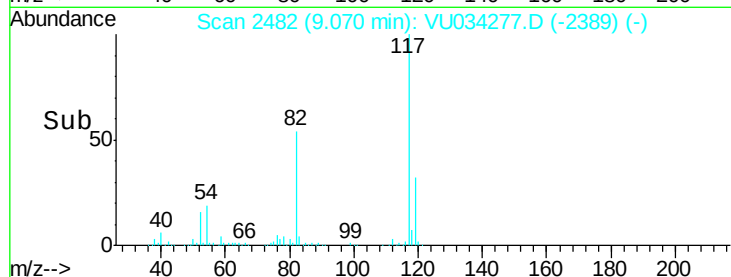
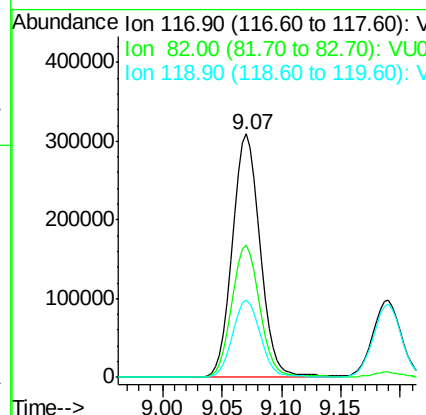
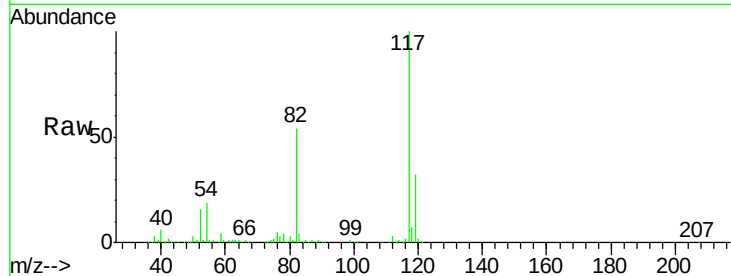
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034277.D
Acq: 05 Sep 2019 12:10

Instrument :
MSVOA_U
ClientSampleId :
ICVVU090619

Tot Ion	Ratio	Resp	Lower	Upper
117	100	502261		
82	54.1		44.6	67.0
119	31.9		25.9	38.9

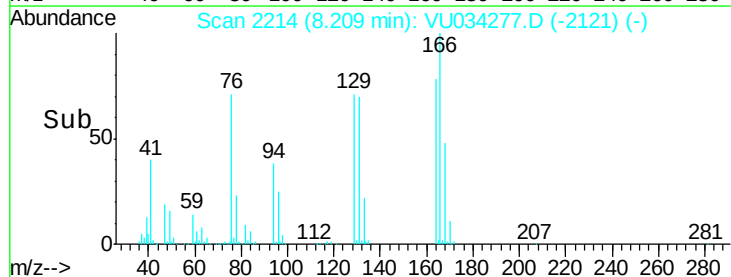
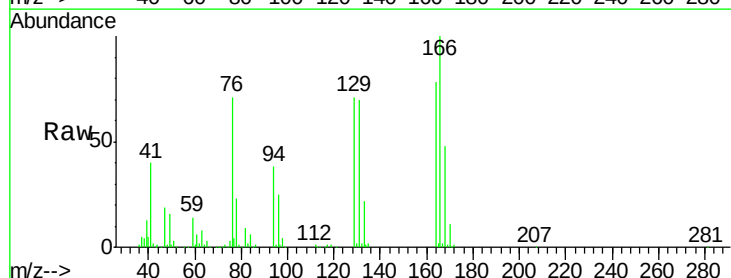
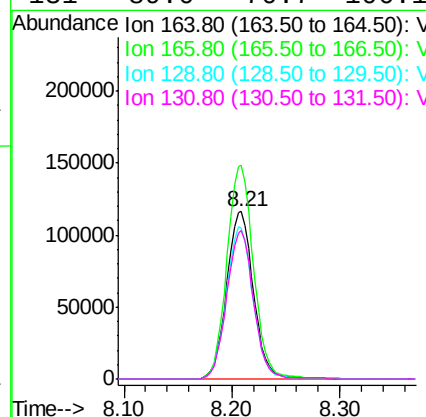
Manual Integrations
APPROVED

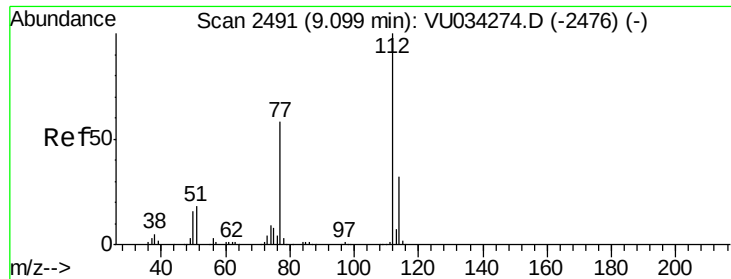
MMDadoda
9/6/2019 3:21:46 PM



#64
Tetrachloroethene
Concen: 46.032 ug/l
RT: 8.21 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VU034277.D
Acq: 05 Sep 2019 12:10

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	200581		
166	127.8		103.7	155.5
129	90.7		75.8	113.8
131	89.0		70.7	106.1





#65

Chlorobenzene

Concen: 48.808 ug/l

RT: 9.10 min Scan# 2491

Delta R.T. 0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

Instrument :

MSVOA_U

ClientSampleId :

ICVVU090619

Tot Ion:112 Resp: 621944

Ion Ratio Lower Upper

112 100

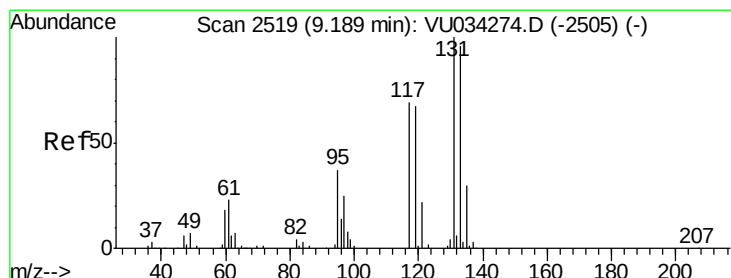
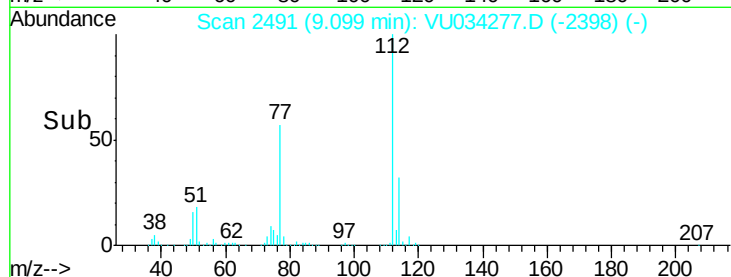
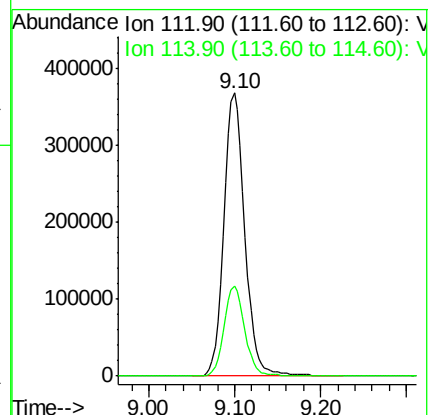
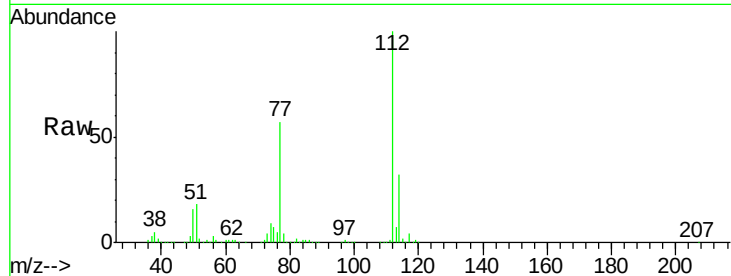
114 31.7 25.9 38.9

Manual Integrations

APPROVED

MMDadoda

9/6/2019 3:21:46 PM



#66

1,1,1,2-Tetrachloroethane

Concen: 47.838 ug/l

RT: 9.19 min Scan# 2519

Delta R.T. 0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

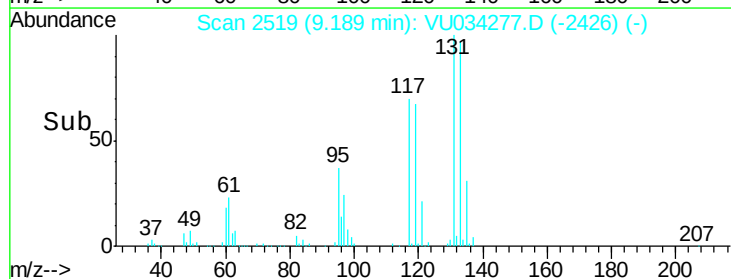
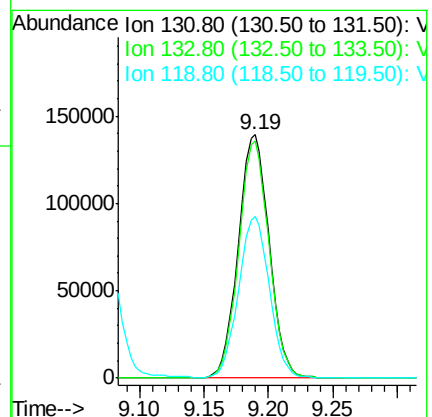
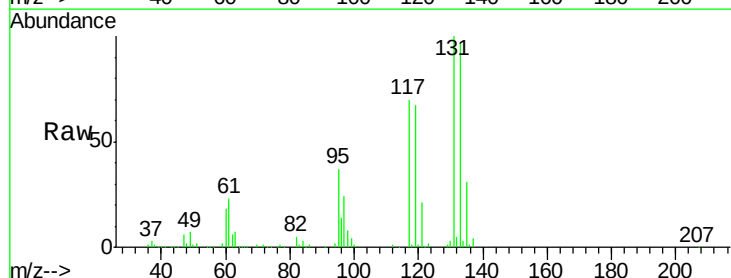
Tgt Ion:131 Resp: 232634

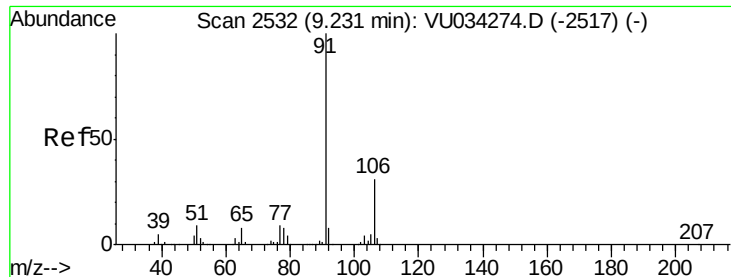
Ion Ratio Lower Upper

131 100

133 95.5 47.9 143.7

119 66.6 33.1 99.5





#67

Ethyl Benzene

Concen: 50.770 ug/l

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

Instrument :

MSVOA_U

ClientSampleId :

ICVVU090619

Tot Ion: 91 Resp: 1057782

Ion Ratio Lower Upper

91 100

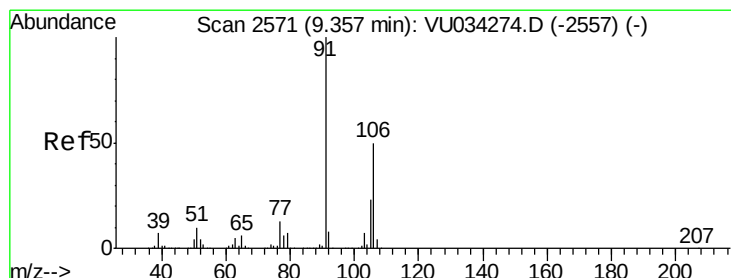
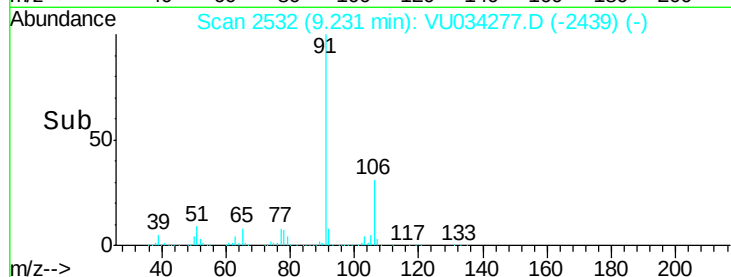
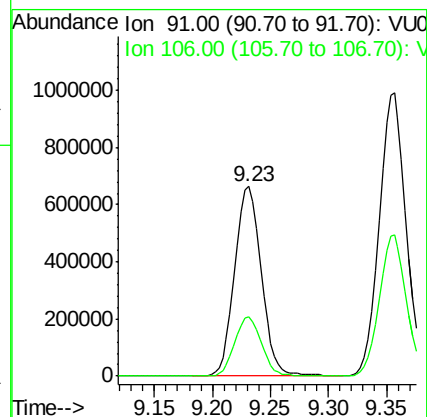
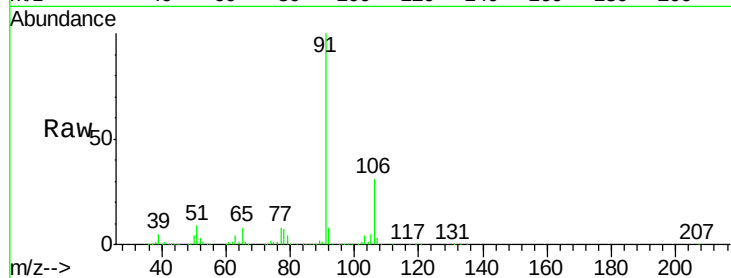
106 31.1 24.8 37.2

Manual Integrations

APPROVED

MMDadoda

9/6/2019 3:21:46 PM



#68

m/p-Xylenes

Concen: 103.803 ug/l

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU034277.D

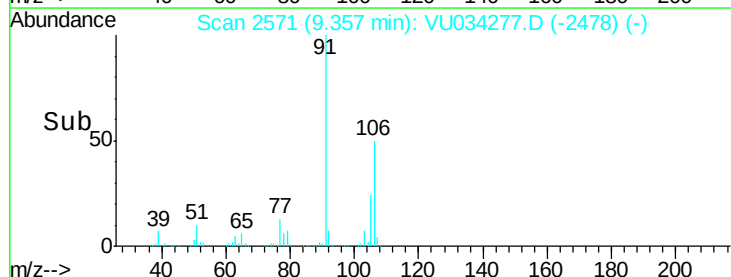
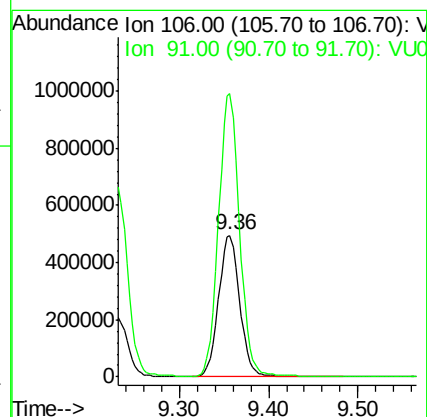
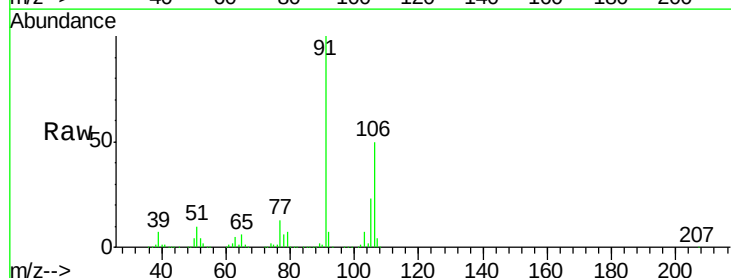
Acq: 05 Sep 2019 12:10

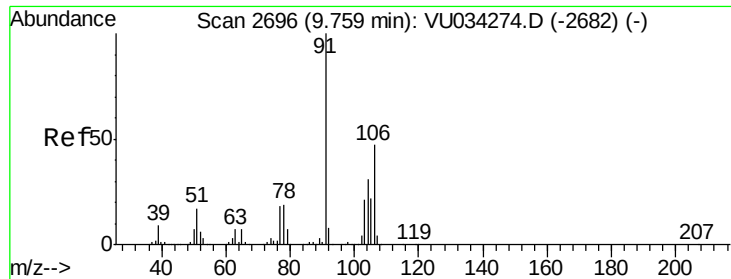
Tgt Ion: 106 Resp: 814393

Ion Ratio Lower Upper

106 100

91 199.4 160.1 240.1





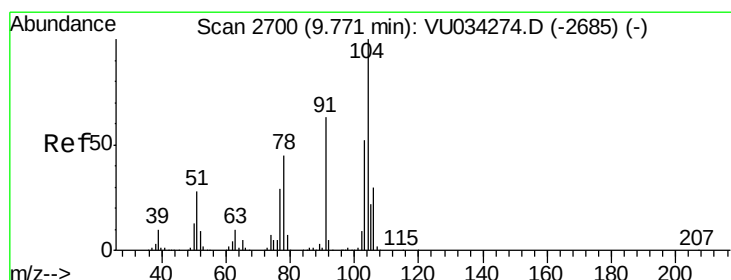
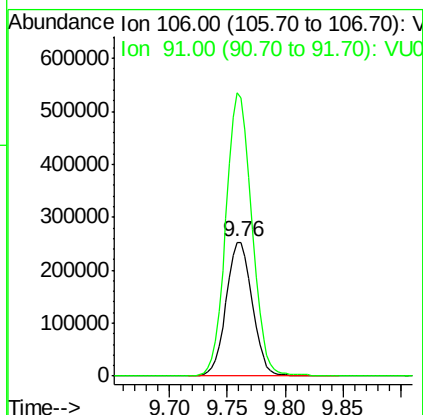
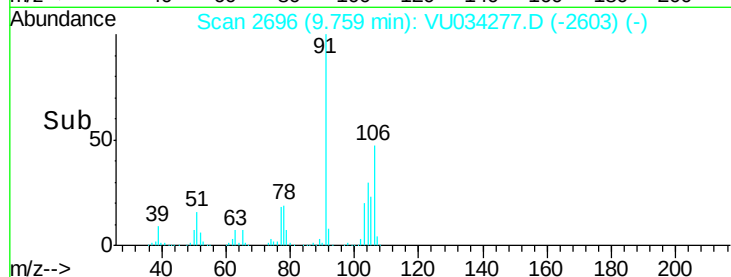
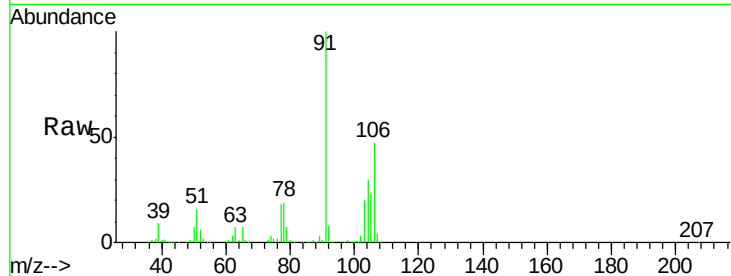
#69
o-Xylene
Concen: 51.663 ug/l
RT: 9.76 min Scan# 2696
Delta R.T. 0.00 min
Lab File: VU034277.D
Acq: 05 Sep 2019 12:10

Instrument :
MSVOA_U
ClientSampleId :
ICVVU090619

Tot Ion	Ratio	Resp	Lower	Upper
106	100	396393		
91	209.7	105.1	315.3	

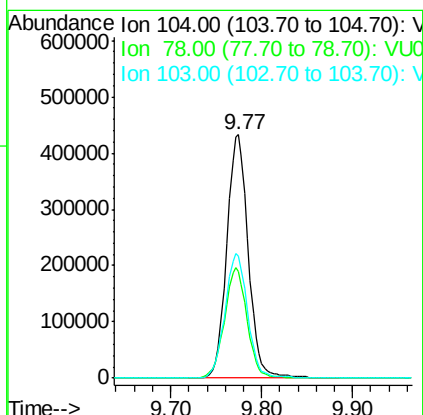
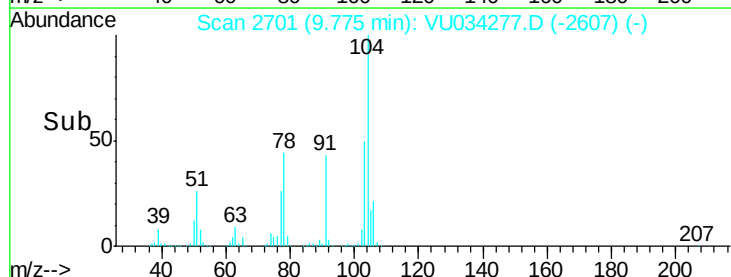
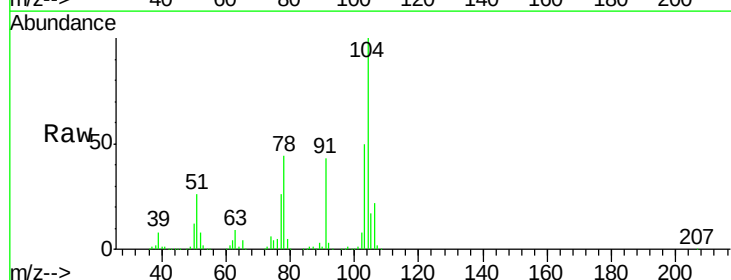
Manual Integrations
APPROVED

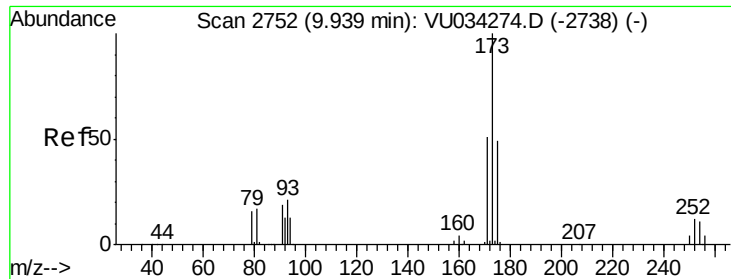
MMDadoda
9/6/2019 3:21:46 PM



#70
Styrene
Concen: 52.791 ug/l
RT: 9.77 min Scan# 2701
Delta R.T. 0.00 min
Lab File: VU034277.D
Acq: 05 Sep 2019 12:10

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	710152		
78	47.9	38.6	57.8	
103	54.1	44.2	66.4	





#71

Bromoform

Concen: 50.352 ug/l

RT: 9.94 min Scan# 2752

Delta R.T. 0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

Instrument :

MSVOA_U

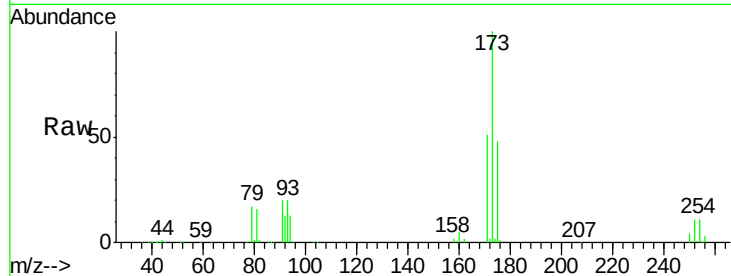
ClientSampleId :

ICVVU090619

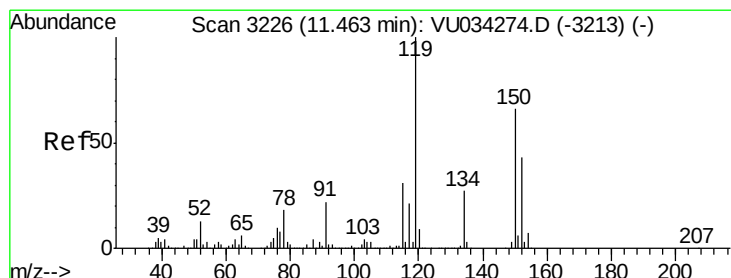
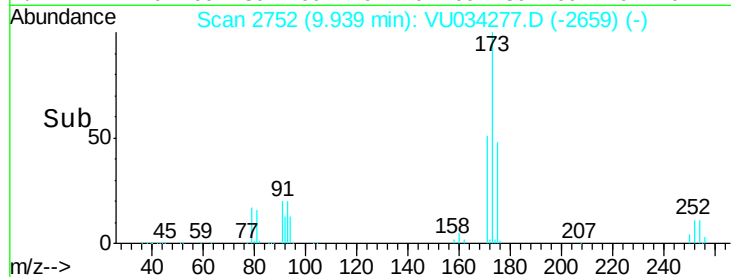
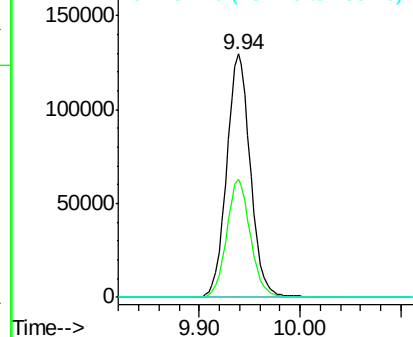
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.4	73.2
254	0.1	0.0	0.0#

Manual Integrations
APPROVED

MMDadoda
9/6/2019 3:21:46 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

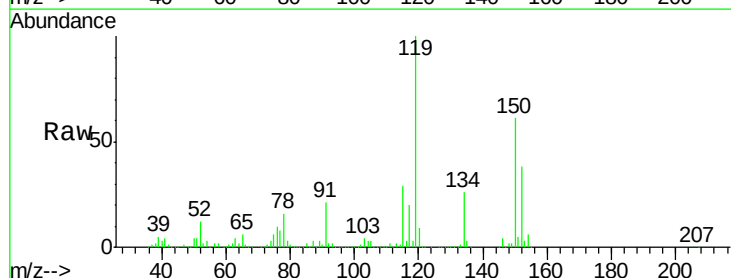
RT: 11.46 min Scan# 3226

Delta R.T. 0.00 min

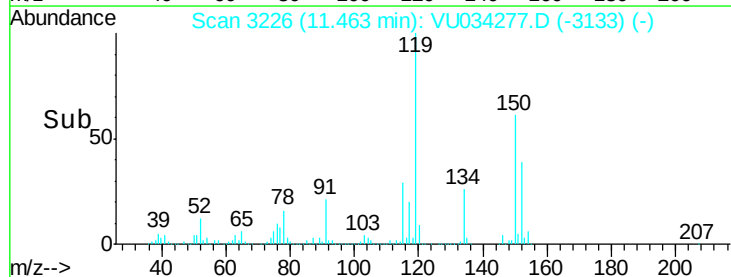
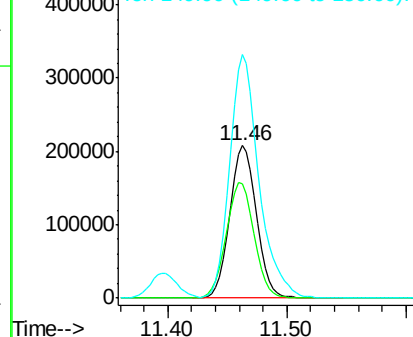
Lab File: VU034277.D

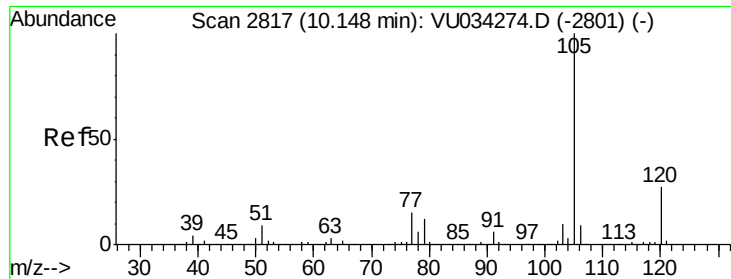
Acq: 05 Sep 2019 12:10

Tgt Ion	Ratio	Lower	Upper
152	100		
115	78.9	39.1	117.3
150	173.9	0.0	345.4



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





#73

Isopropylbenzene

Concen: 51.534 ug/l

RT: 10.15 min Scan# 2817

Delta R.T. 0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

Instrument :

MSVOA_U

ClientSampleId :

ICVVU090619

Tot Ion:105 Resp: 1084937

Ion Ratio Lower Upper

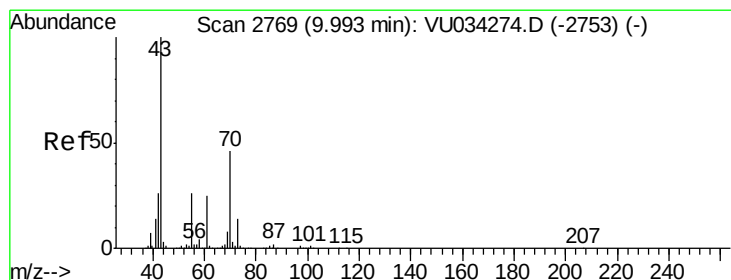
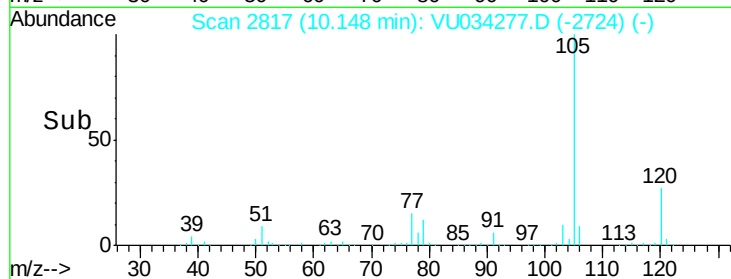
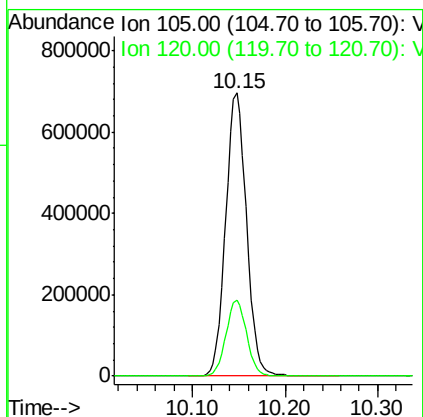
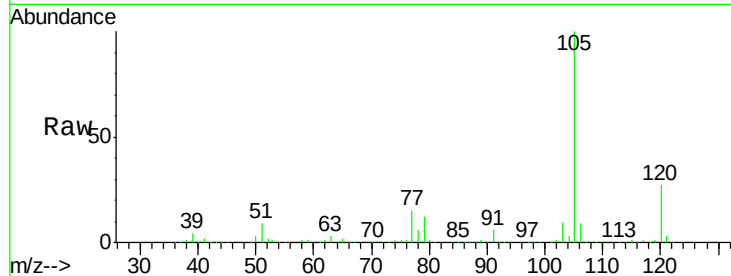
105 100

120 26.7 13.4 40.2

Manual Integrations
APPROVED

MMDadoda

9/6/2019 3:21:46 PM



#74

N-ethyl acetate

Concen: 56.547 ug/l

RT: 10.00 min Scan# 2770

Delta R.T. 0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

Tgt Ion: 43 Resp: 479205

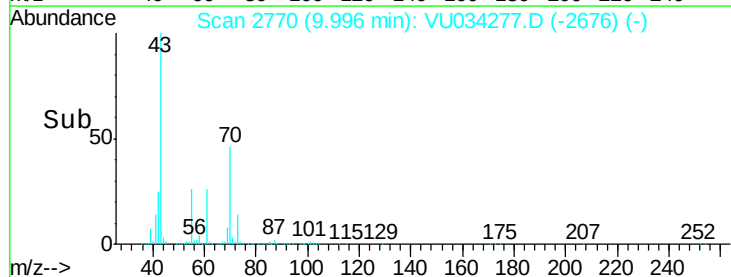
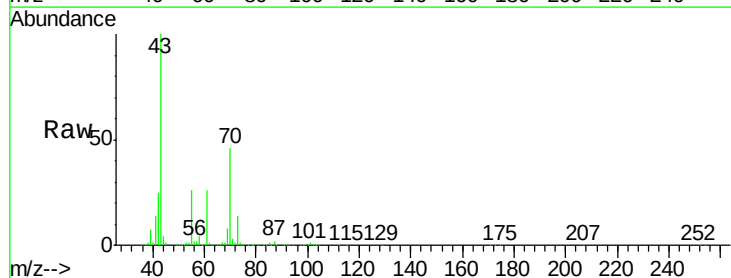
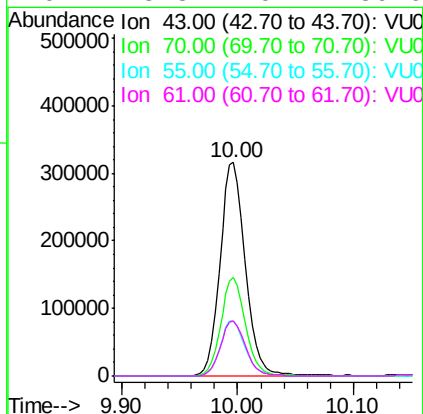
Ion Ratio Lower Upper

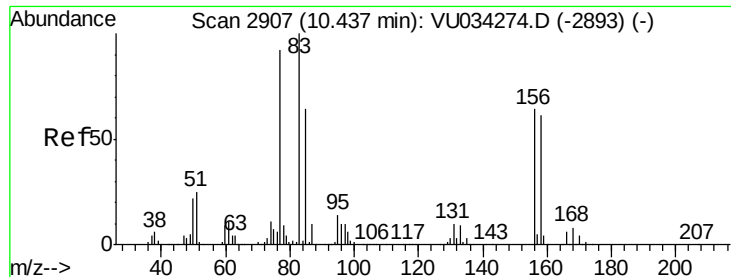
43 100

70 45.3 36.4 54.6

55 25.8 21.2 31.8

61 25.8 20.4 30.6





#75

1,1,2,2-Tetrachloroethane

Concen: 48.250 ug/l

RT: 10.44 min Scan# 2907

Delta R.T. 0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

Instrument :

MSVOA_U

ClientSampleId :

ICVVU090619

Tot Ion: 83 Resp: 411173

Ion Ratio Lower Upper

83 100

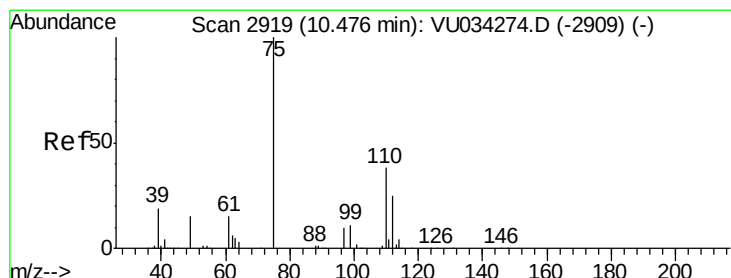
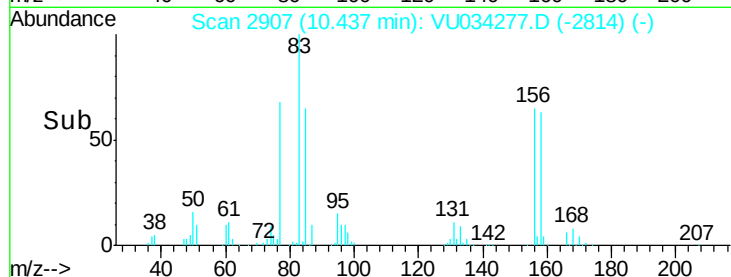
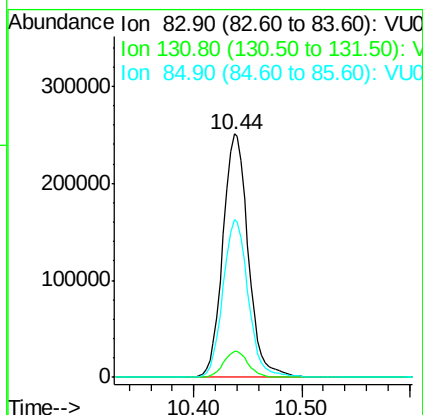
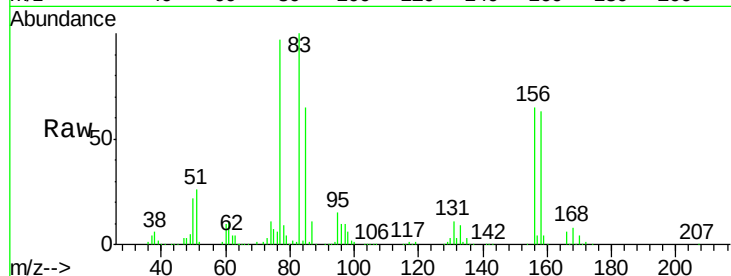
131 10.3 5.1 15.2

85 64.7 32.0 96.2

Manual Integrations
APPROVED

MMDadoda

9/6/2019 3:21:46 PM



#76

1,2,3-Trichloropropane

Concen: 51.808 ug/l m

RT: 10.48 min Scan# 2919

Delta R.T. 0.00 min

Lab File: VU034277.D

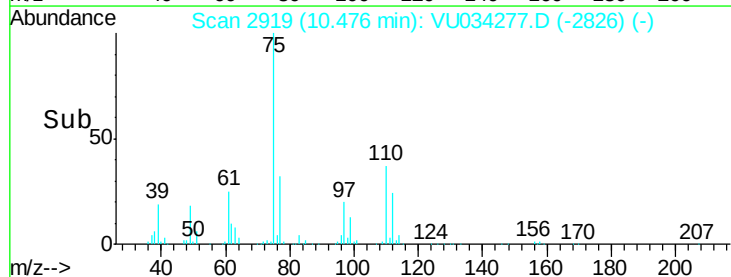
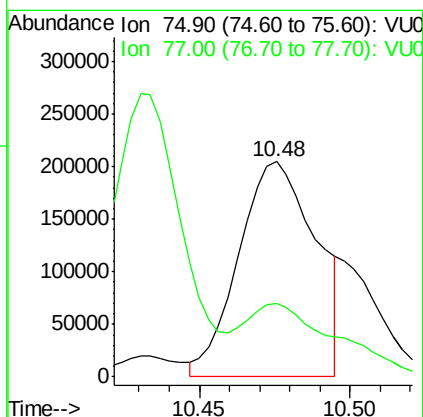
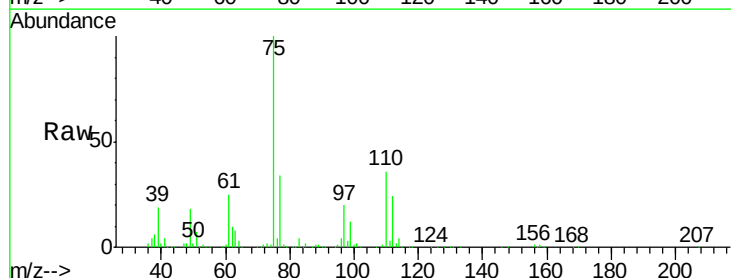
Acq: 05 Sep 2019 12:10

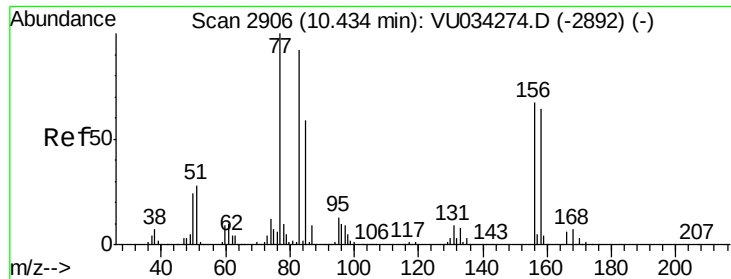
Tgt Ion: 75 Resp: 365848

Ion Ratio Lower Upper

75 100

77 40.9 20.8 62.2





#77

Bromobenzene

Concen: 49.385 ug/l

RT: 10.43 min Scan# 2906

Delta R.T. 0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

Instrument :

MSVOA_U

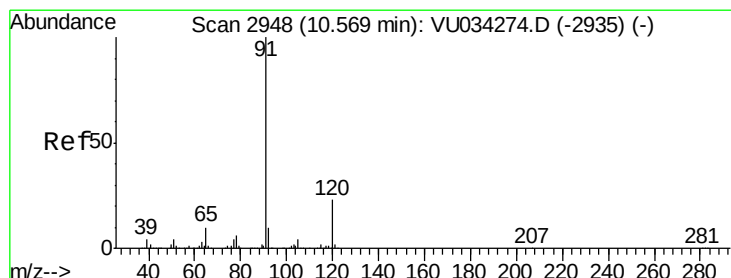
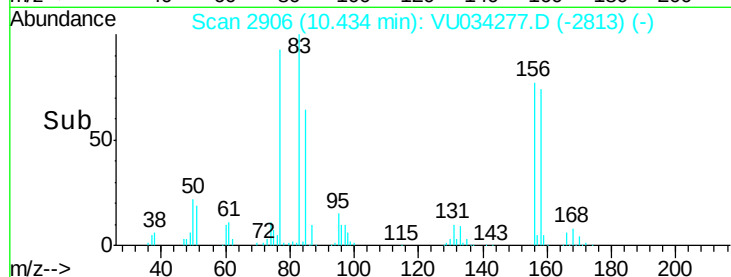
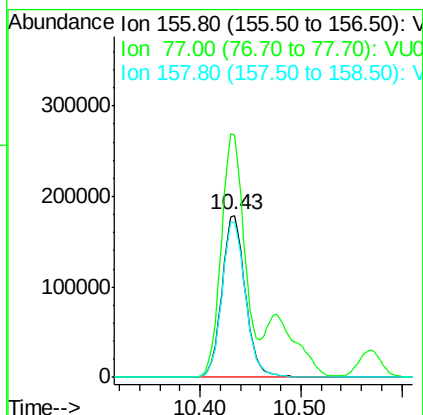
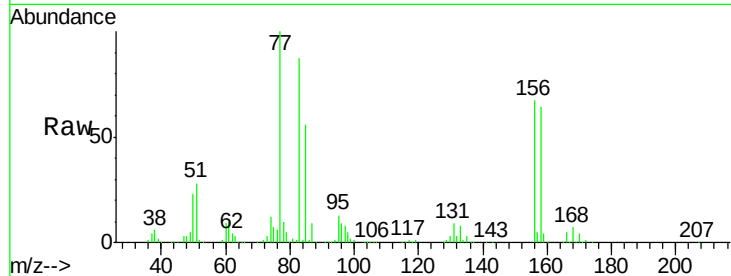
ClientSampleId :

ICVVU090619

Tot Ion	Ratio	Lower	Upper
156	100		
77	150.9	75.6	226.9
158	96.6	48.2	144.6

Manual Integrations
APPROVED

MMDadoda
9/6/2019 3:21:46 PM



#78

n-propylbenzene

Concen: 52.118 ug/l

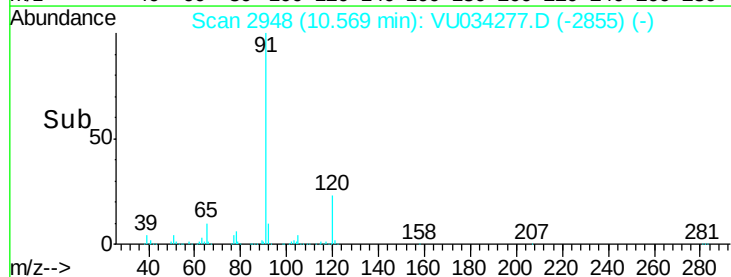
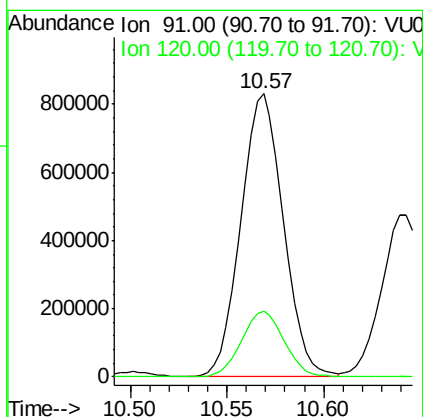
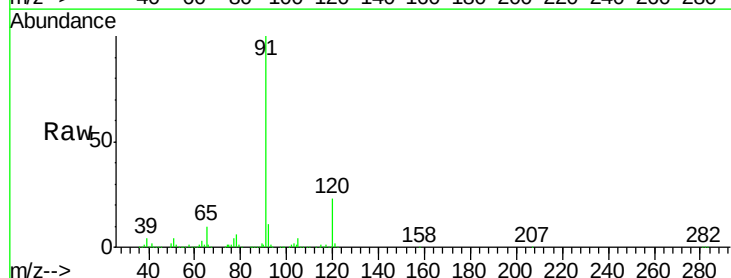
RT: 10.57 min Scan# 2948

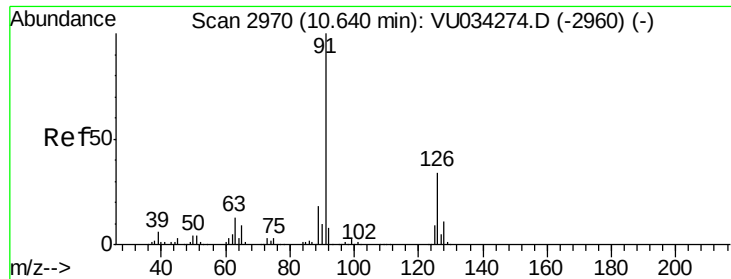
Delta R.T. 0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.4	11.7	35.0





#79

2-Chlorotoluene

Concen: 50.430 ug/l

RT: 10.64 min Scan# 2970

Delta R.T. 0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

Instrument :

MSVOA_U

ClientSampleId :

ICVVU090619

Tot Ion: 91 Resp: 748160

Ion Ratio Lower Upper

91 100

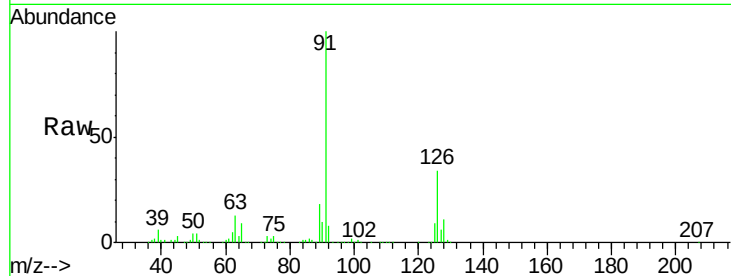
126 34.8 17.3 51.9

Manual Integrations

APPROVED

MMDadoda

9/6/2019 3:21:46 PM



Abundance Ion 91.00 (90.70 to 91.70): VU034277.D (-2877) (-)

Ion 125.90 (125.60 to 126.60): VU034277.D (-2877) (-)

800000

600000

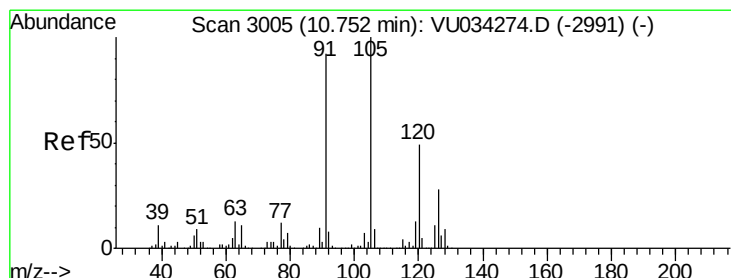
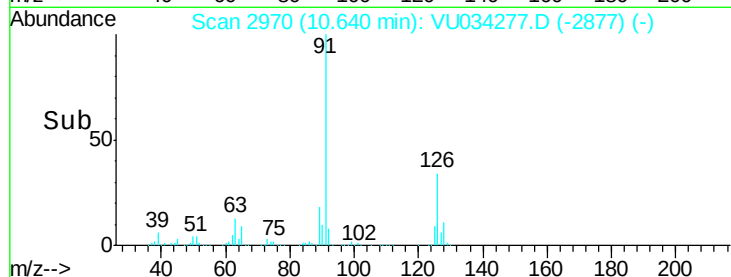
400000

200000

0

10.60 10.65 10.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 53.188 ug/l

RT: 10.75 min Scan# 3005

Delta R.T. 0.00 min

Lab File: VU034277.D

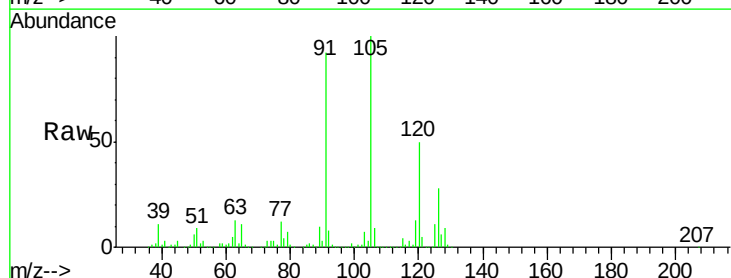
Acq: 05 Sep 2019 12:10

Tgt Ion: 105 Resp: 936504

Ion Ratio Lower Upper

105 100

120 50.0 24.9 74.7



Abundance Ion 105.00 (104.70 to 105.70): VU034277.D (-2912) (-)

Ion 120.00 (119.70 to 120.70): VU034277.D (-2912) (-)

600000

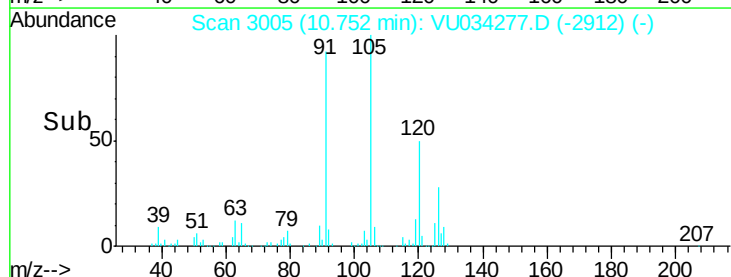
400000

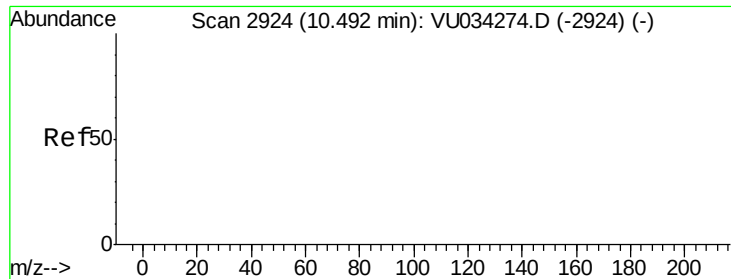
200000

0

10.70 10.80 10.90

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 59.950 ug/l m

RT: 10.49 min Scan# 2924

Delta R.T. 0.00 min

Lab File: VU034277.D

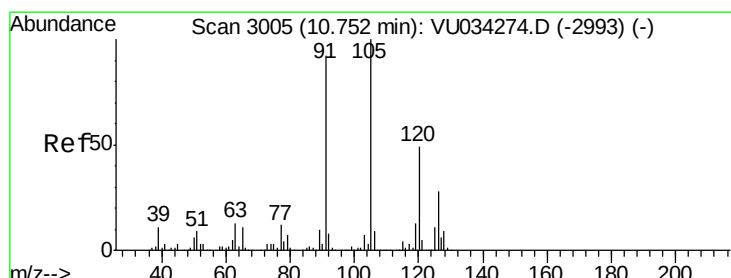
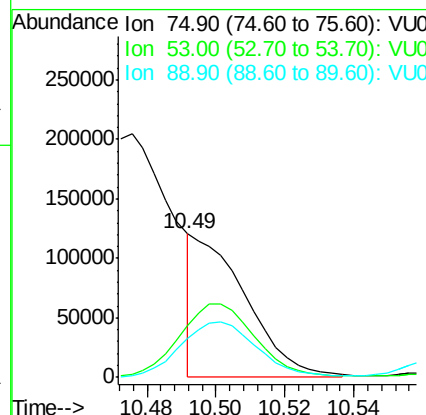
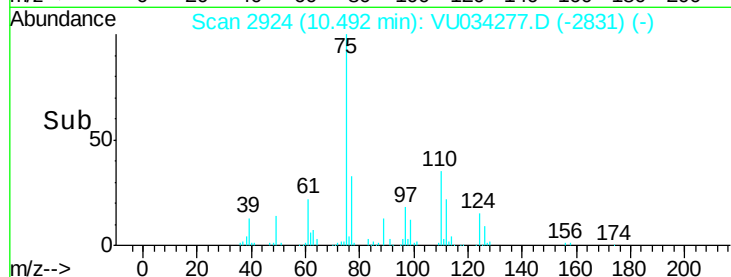
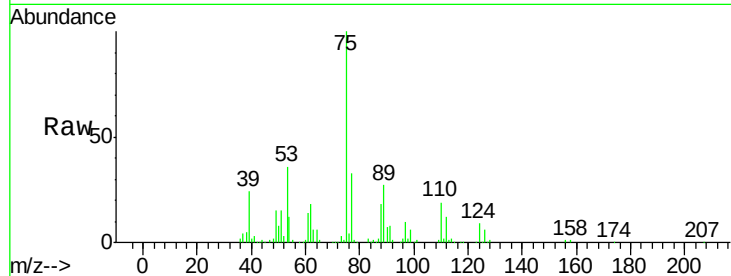
Acq: 05 Sep 2019 12:10

Instrument :
MSVOA_U
ClientSampleId :
ICVVU090619

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

Manual Integrations
APPROVED

MMDadoda
9/6/2019 3:21:46 PM



#82

4-Chlorotoluene

Concen: 51.254 ug/l

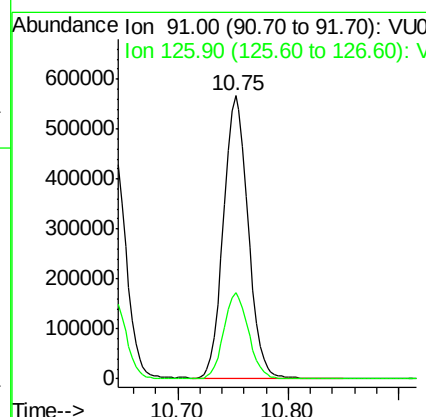
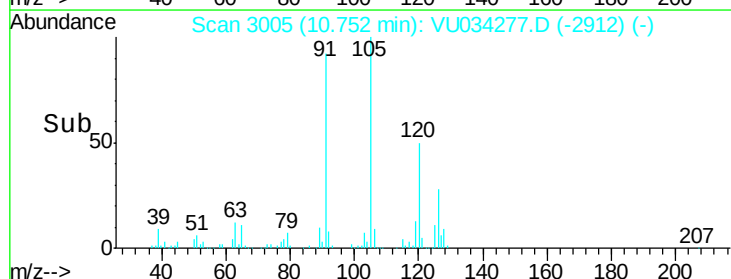
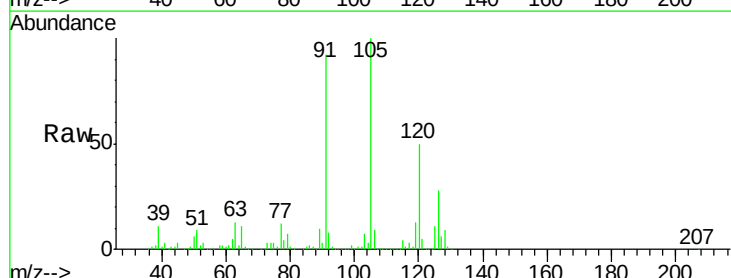
RT: 10.75 min Scan# 3005

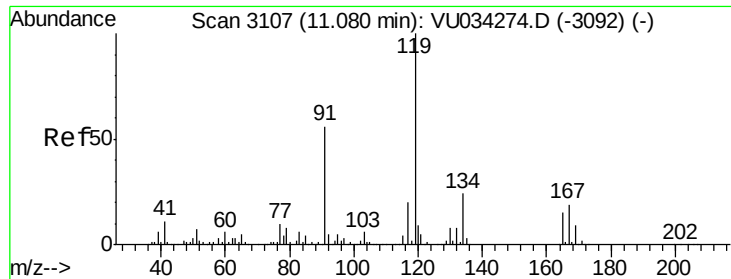
Delta R.T. 0.00 min

Lab File: VU034277.D

Acq: 05 Sep 2019 12:10

Tgt Ion	Ratio	Resp Lower	Upper
91	100		
126	30.7	15.3	45.8





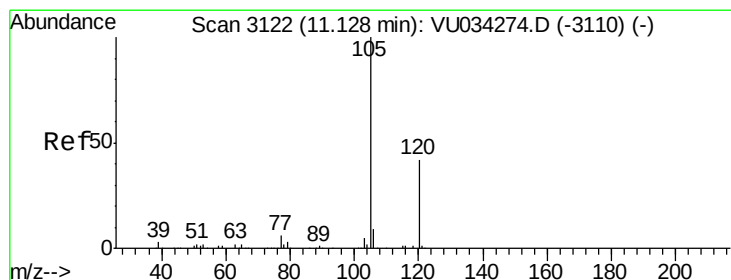
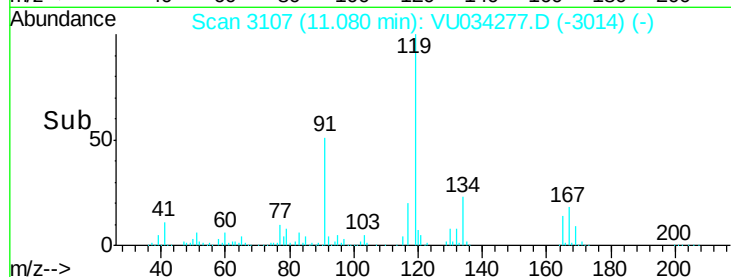
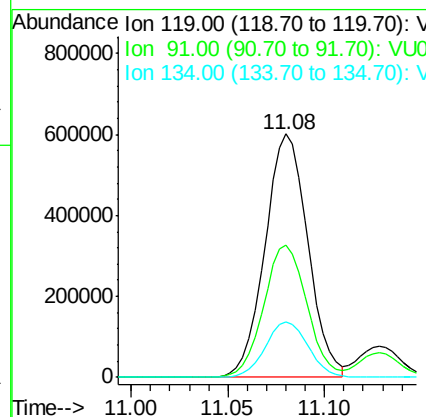
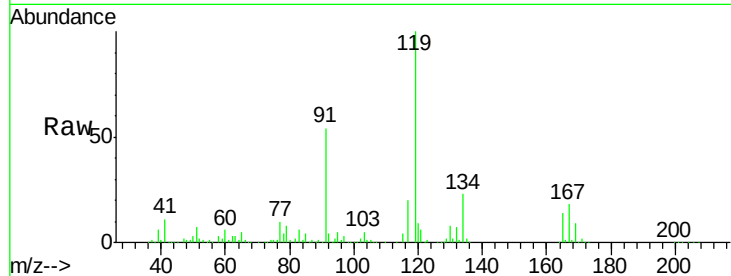
#83
 tert-Butylbenzene
 Concen: 52.477 ug/l
 RT: 11.08 min Scan# 3107
 Delta R.T. 0.00 min
 Lab File: VU034277.D
 Acq: 05 Sep 2019 12:10

Instrument :
 MSVOA_U
 ClientSampleId :
 ICVVU090619

Tot Ion	Ratio	Lower	Upper
119	100		
91	54.7	27.8	83.4
134	22.8	11.7	35.0

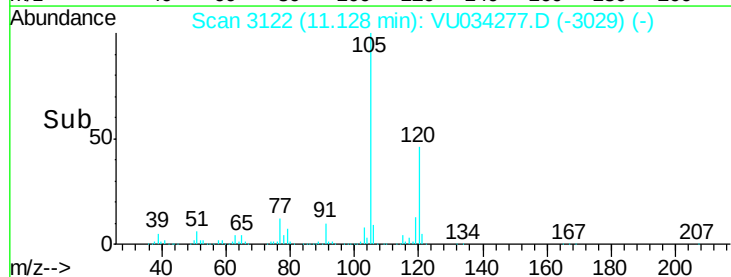
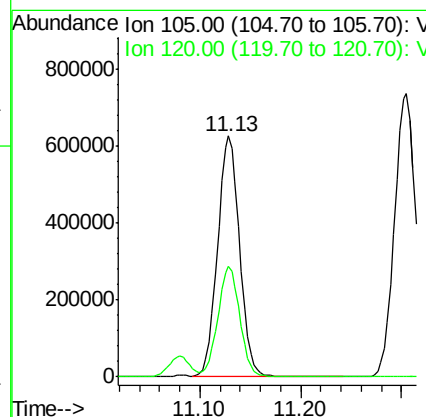
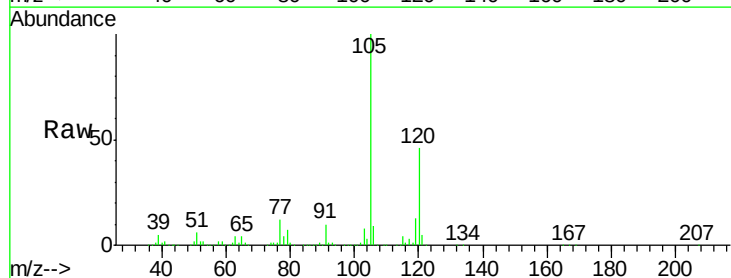
Manual Integrations
 APPROVED

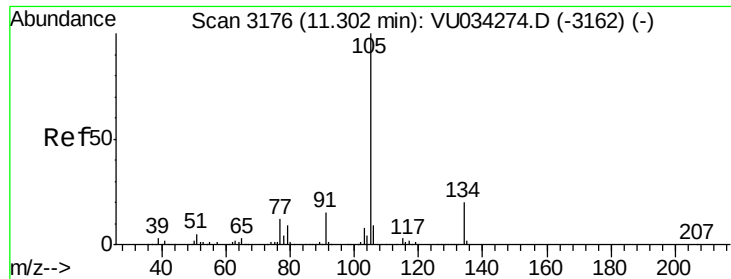
MMDadoda
 9/6/2019 3:21:46 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 53.259 ug/l
 RT: 11.13 min Scan# 3122
 Delta R.T. 0.00 min
 Lab File: VU034277.D
 Acq: 05 Sep 2019 12:10

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.0	22.9	68.8





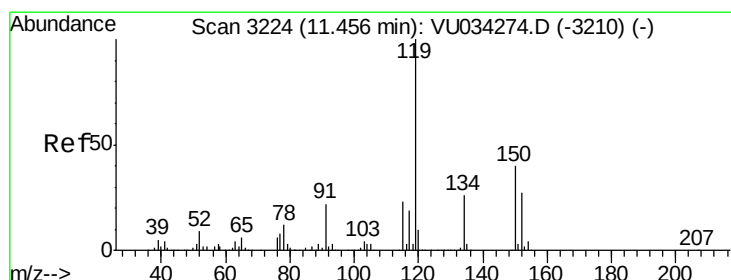
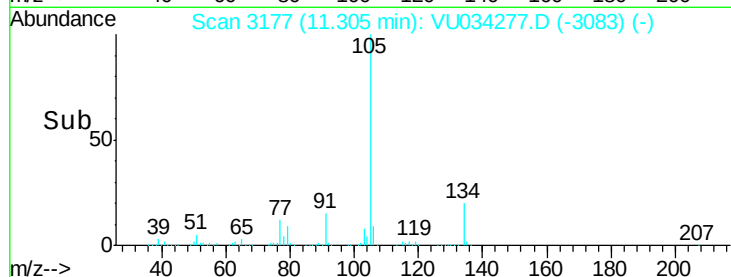
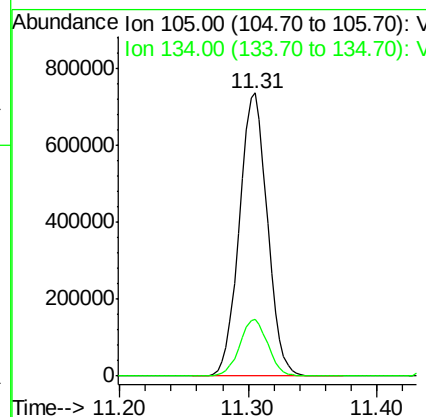
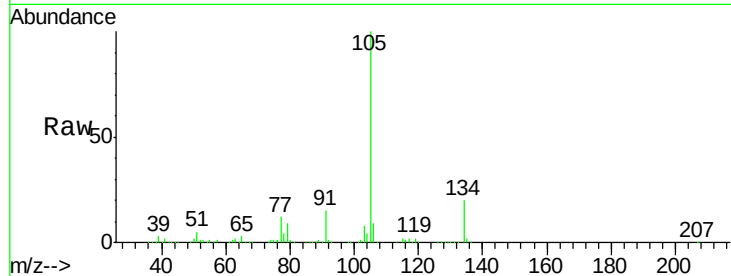
#85
 sec-Butylbenzene
 Concen: 53.291 ug/l
 RT: 11.31 min Scan# 3177
 Delta R.T. 0.00 min
 Lab File: VU034277.D
 Acq: 05 Sep 2019 12:10

Instrument :
 MSVOA_U
 ClientSampleId :
 ICVVU090619

Tot Ion:105 Resp: 1108167
 Ion Ratio Lower Upper
 105 100
 134 20.1 10.1 30.3

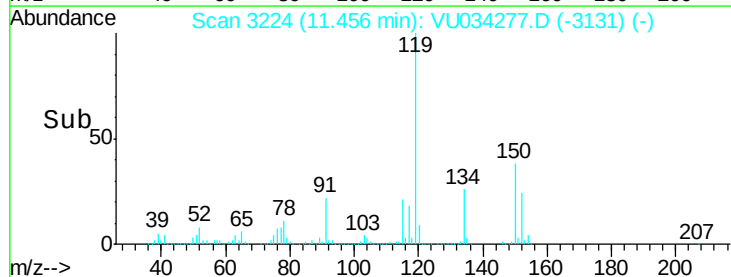
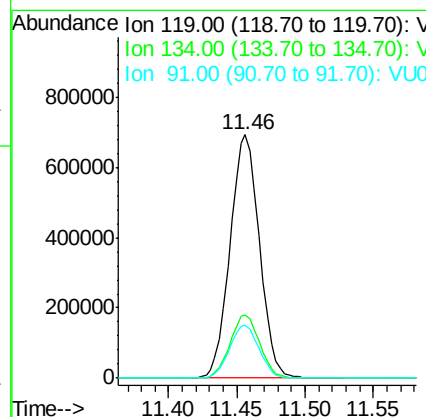
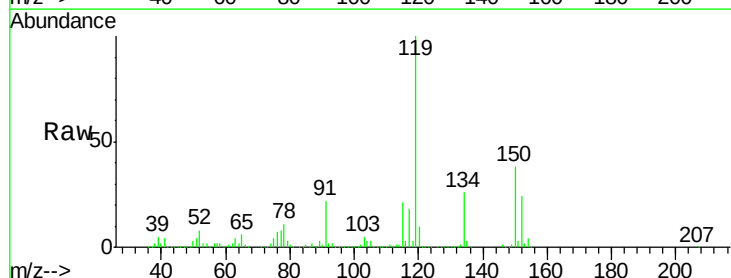
Manual Integrations
 APPROVED

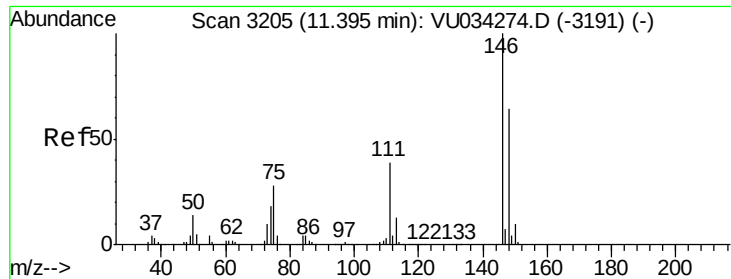
MMDadoda
 9/6/2019 3:21:46 PM



#86
 p-Isopropyltoluene
 Concen: 53.741 ug/l
 RT: 11.46 min Scan# 3224
 Delta R.T. 0.00 min
 Lab File: VU034277.D
 Acq: 05 Sep 2019 12:10

Tgt Ion:119 Resp: 1031470
 Ion Ratio Lower Upper
 119 100
 134 26.3 13.3 39.8
 91 22.0 11.2 33.6





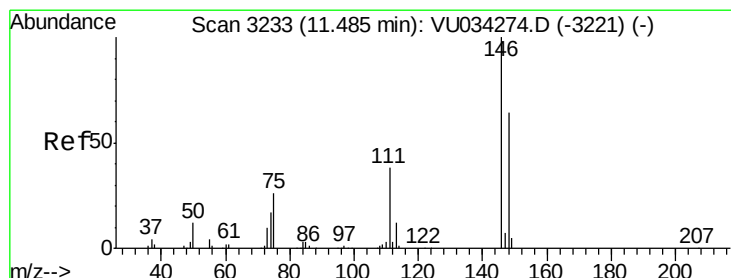
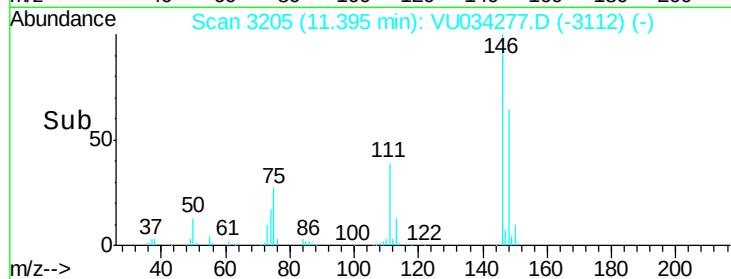
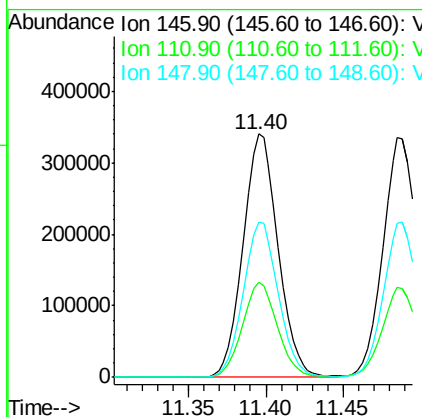
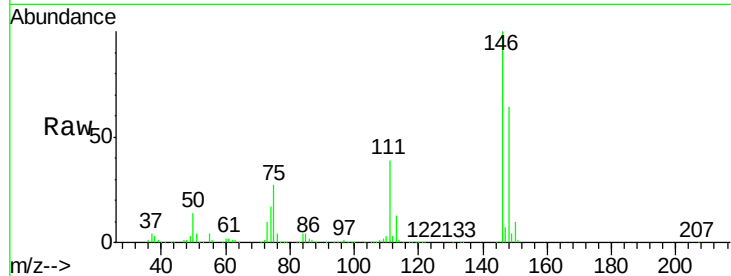
#87
 1,3-Dichlorobenzene
 Concen: 50.036 ug/l
 RT: 11.40 min Scan# 3205
 Delta R.T. 0.00 min
 Lab File: VU034277.D
 Acq: 05 Sep 2019 12:10

Instrument :
 MSVOA_U
 ClientSampleId :
 ICVVU090619

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.7	19.5	58.5
148	63.9	32.1	96.3

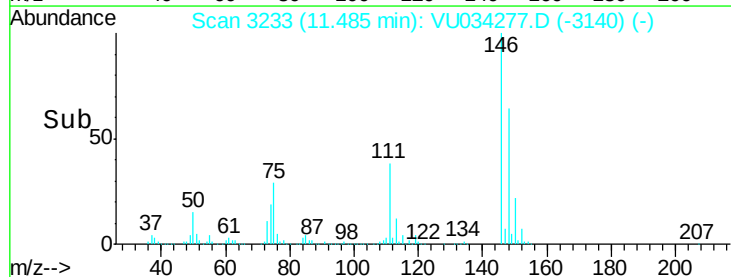
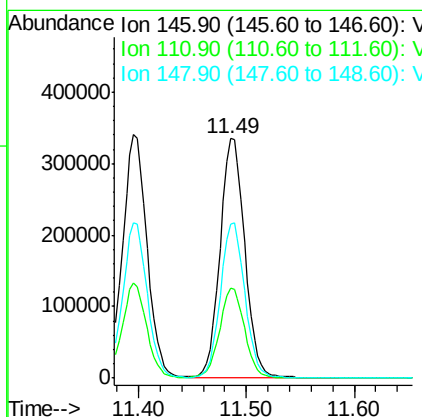
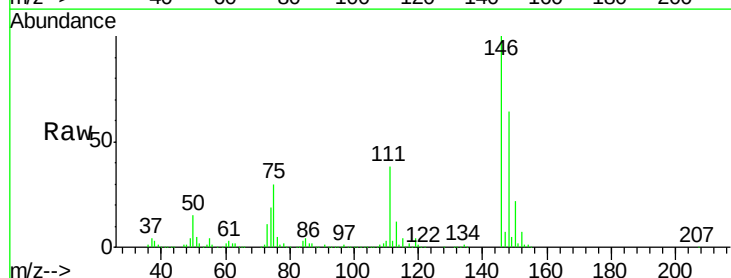
Manual Integrations
 APPROVED

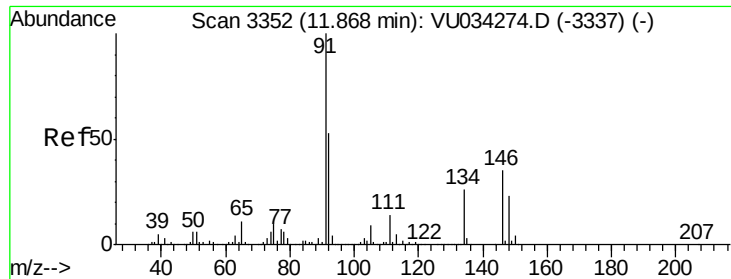
MMDadoda
 9/6/2019 3:21:46 PM



#88
 1,4-Dichlorobenzene
 Concen: 47.622 ug/l
 RT: 11.49 min Scan# 3233
 Delta R.T. 0.00 min
 Lab File: VU034277.D
 Acq: 05 Sep 2019 12:10

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.9	19.1	57.3
148	64.4	32.0	96.0





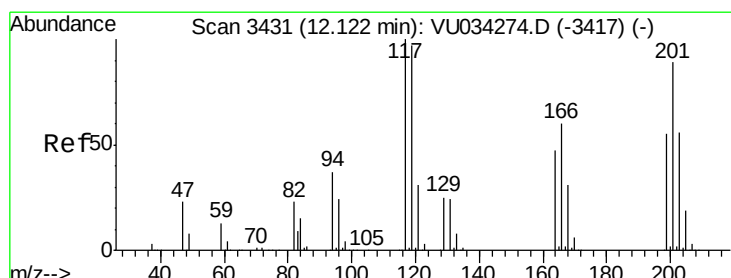
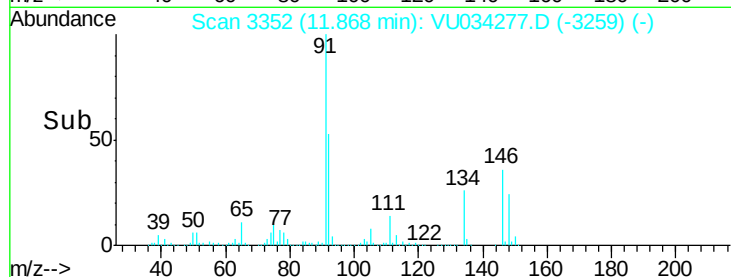
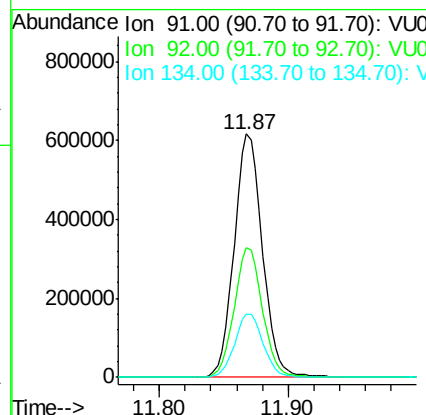
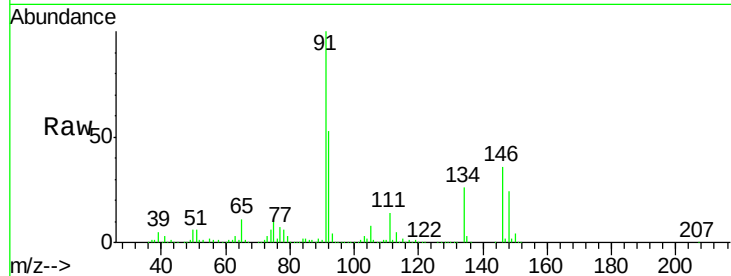
#89
n-Butylbenzene
Concen: 56.177 ug/l
RT: 11.87 min Scan# 3352
Delta R.T. 0.00 min
Lab File: VU034277.D
Acq: 05 Sep 2019 12:10

Instrument :
MSVOA_U
ClientSampleId :
ICVVU090619

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.5	79.4
134	26.3	13.2	39.6

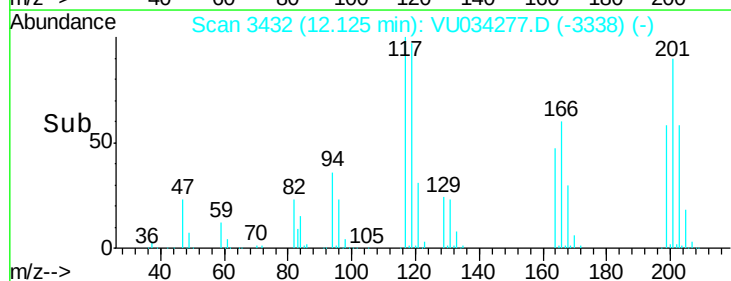
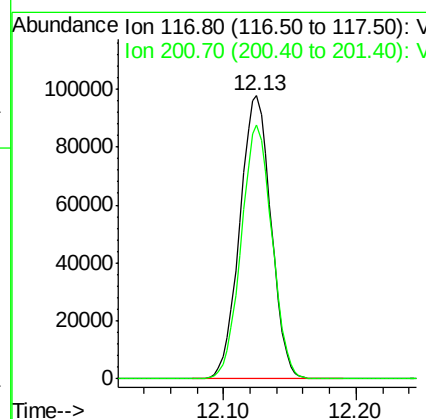
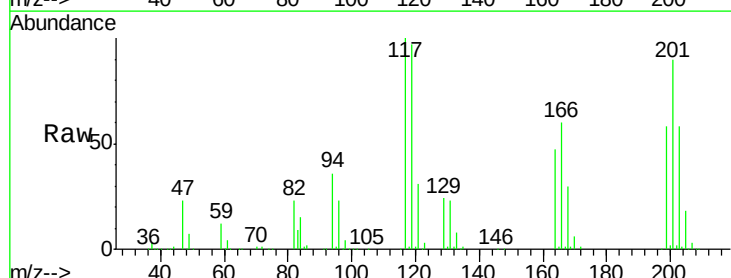
Manual Integrations
APPROVED

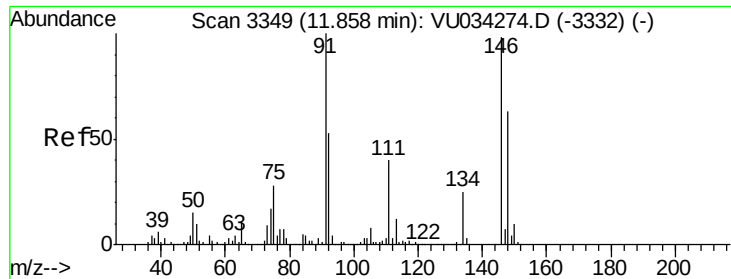
MMDadoda
9/6/2019 3:21:46 PM



#90
Hexachloroethane
Concen: 51.989 ug/l
RT: 12.13 min Scan# 3432
Delta R.T. 0.00 min
Lab File: VU034277.D
Acq: 05 Sep 2019 12:10

Tgt Ion	Ratio	Lower	Upper
117	100		
201	88.4	44.1	132.4





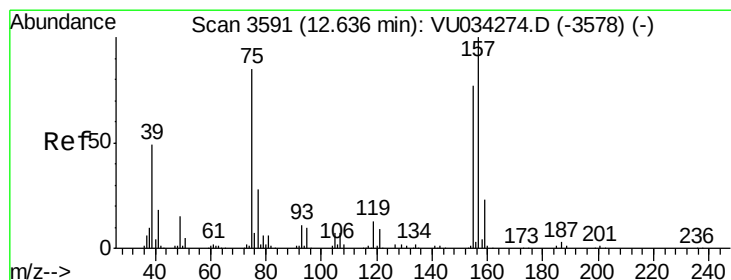
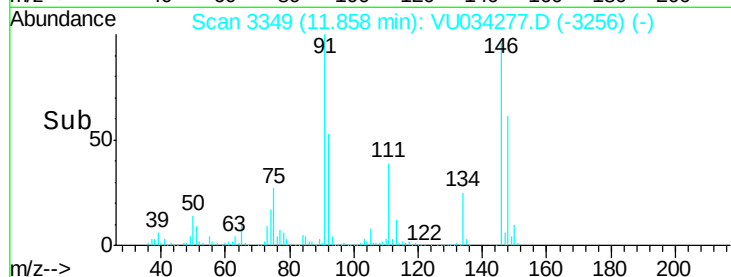
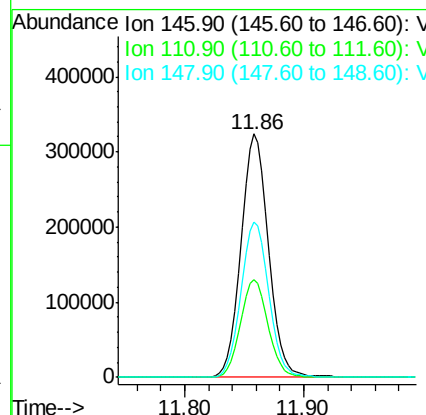
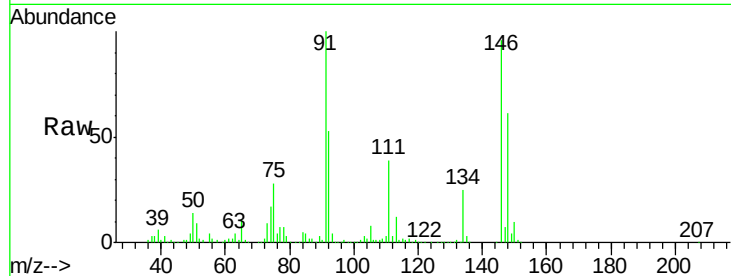
#91
 1,2-Dichlorobenzene
 Concen: 48.980 ug/l
 RT: 11.86 min Scan# 3349
 Delta R.T. 0.00 min
 Lab File: VU034277.D
 Acq: 05 Sep 2019 12:10

Instrument :
 MSVOA_U
 ClientSampleId :
 ICVVU090619

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.4	20.0	60.0
148	64.9	31.6	94.8

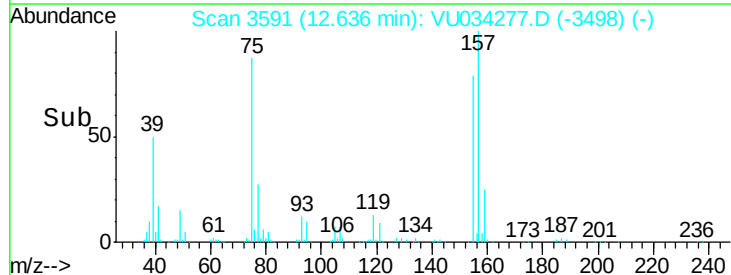
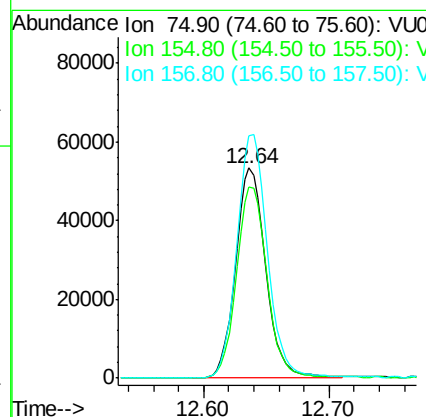
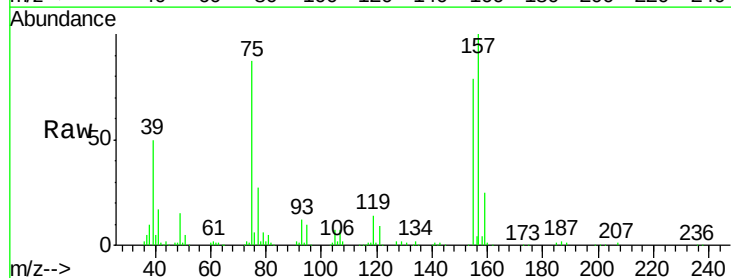
Manual Integrations
 APPROVED

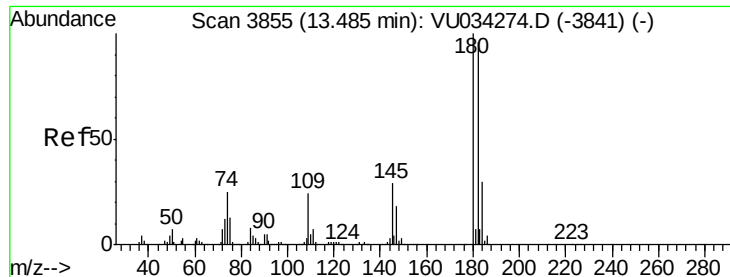
MMDadoda
 9/6/2019 3:21:46 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 57.148 ug/l
 RT: 12.64 min Scan# 3591
 Delta R.T. 0.00 min
 Lab File: VU034277.D
 Acq: 05 Sep 2019 12:10

Tgt Ion	Ratio	Lower	Upper
75	100		
155	92.2	44.6	134.0
157	117.7	58.2	174.6





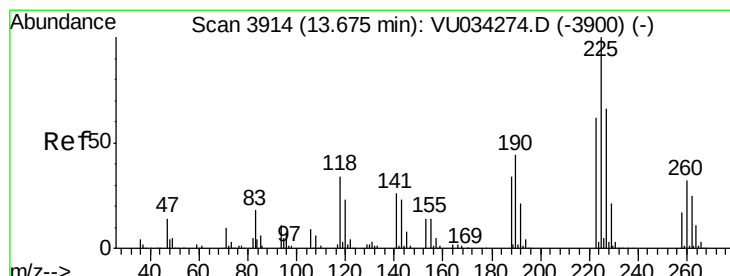
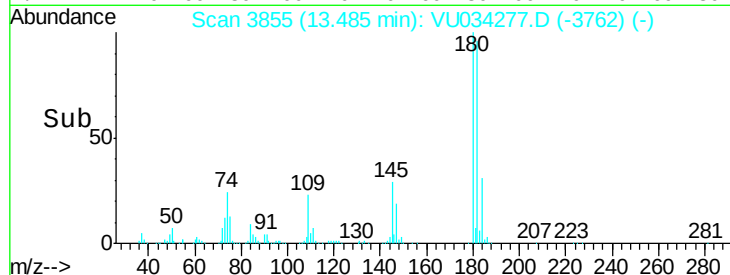
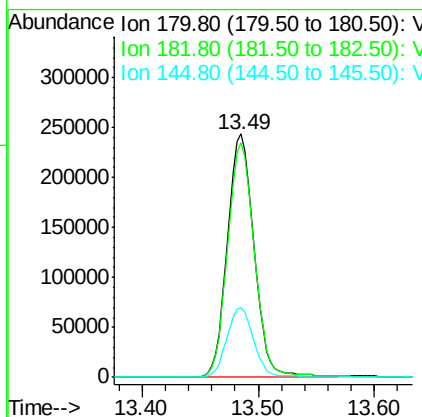
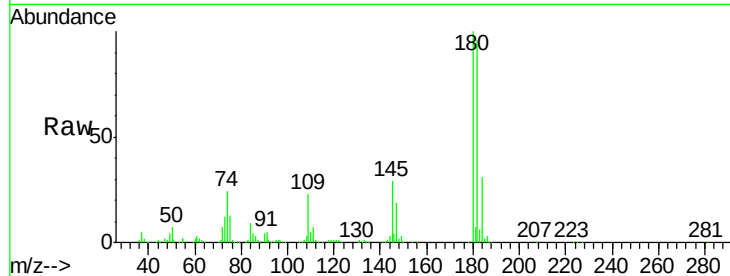
#93
 1,2,4-Trichlorobenzene
 Concen: 50.572 ug/l
 RT: 13.49 min Scan# 3855
 Delta R.T. 0.00 min
 Lab File: VU034277.D
 Acq: 05 Sep 2019 12:10

Instrument :
 MSVOA_U
 ClientSampleId :
 ICVVU090619

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	96.7	47.9	143.8	
145	28.8	14.4	43.0	

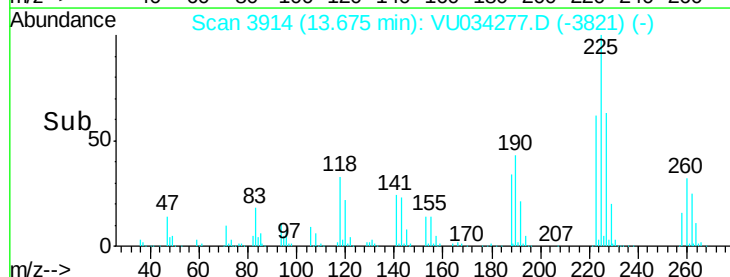
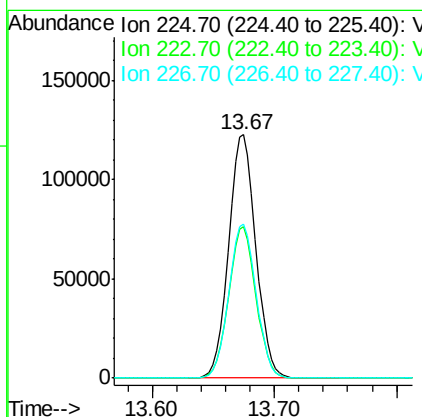
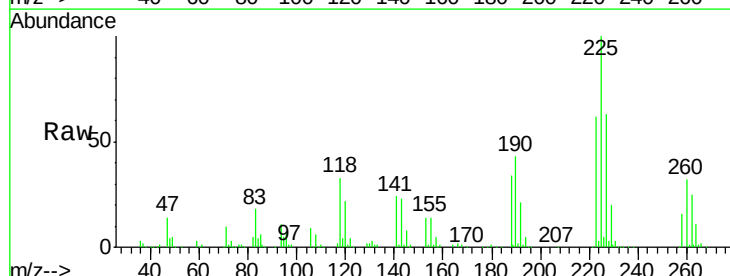
Manual Integrations
 APPROVED

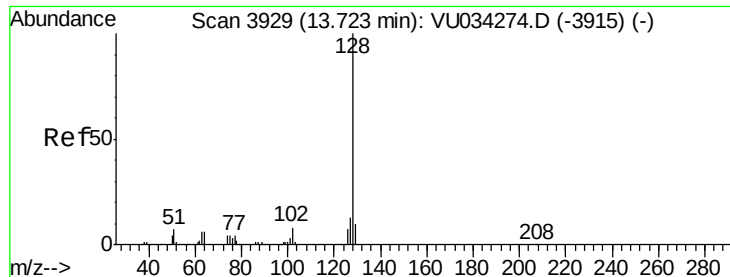
MMDadoda
 9/6/2019 3:21:46 PM



#94
 Hexachlorobutadiene
 Concen: 51.674 ug/l
 RT: 13.67 min Scan# 3914
 Delta R.T. 0.00 min
 Lab File: VU034277.D
 Acq: 05 Sep 2019 12:10

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.2	31.6	94.7	
227	63.6	32.3	96.8	





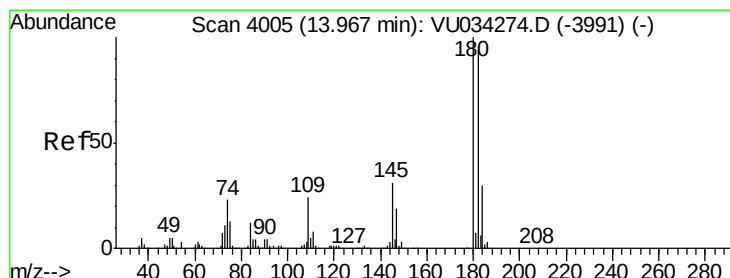
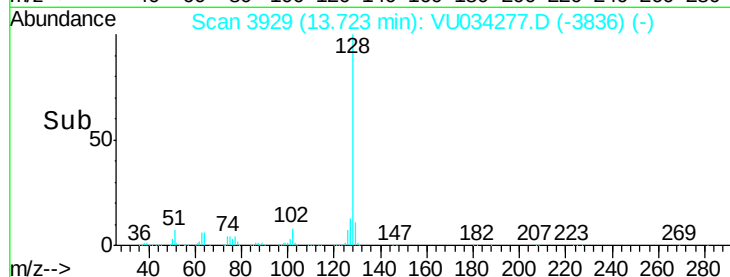
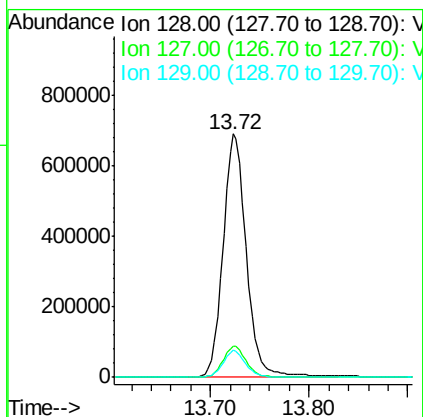
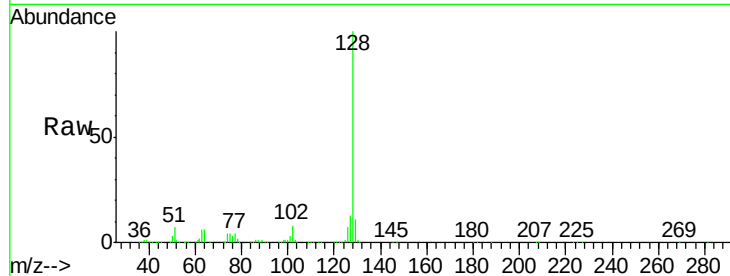
#95
Naphthalene
Concen: 52.949 ug/l
RT: 13.72 min Scan# 3929
Delta R.T. 0.00 min
Lab File: VU034277.D
Acq: 05 Sep 2019 12:10

Instrument :
MSVOA_U
ClientSampleId :
ICVVU090619

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.6	15.8
129	10.8	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
9/6/2019 3:21:46 PM



#96
1,2,3-Trichlorobenzene
Concen: 51.803 ug/l
RT: 13.97 min Scan# 4005
Delta R.T. 0.00 min
Lab File: VU034277.D
Acq: 05 Sep 2019 12:10

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.2	48.4	145.0
145	31.0	15.4	46.4

