

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090719\
 Data File : VU034342.D
 Acq On : 06 Sep 2019 19:40
 Operator : JC/SP
 Sample : K4722-16MS
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GW-200-B4-47.0-52.0-090519MS

Manual Integrations
 APPROVED

MMDadoda
 9/10/2019 10:48:54 AM

Quant Time: Sep 07 04:44:59 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	307760	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	457211	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	450869	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	293581	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	231119	49.63	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.26%	
35) Dibromofluoromethane	4.86	113	206605	48.56	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.12%	
50) Toluene-d8	7.55	98	812914	50.86	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.72%	
62) 4-Bromofluorobenzene	10.29	95	308509	49.99	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.98%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.20	85	142169	44.169	ug/l	100
3) Chloromethane	1.32	50	168404	48.425	ug/l	99
4) Vinyl Chloride	1.40	62	182143	45.412	ug/l	99
5) Bromomethane	1.61	94	109339	54.058	ug/l	100
6) Chloroethane	1.69	64	116174	49.830	ug/l	97
7) Trichlorofluoromethane	1.87	101	247285	45.981	ug/l	98
8) Diethyl Ether	2.09	74	115485	48.819	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.27	101	158944	44.623	ug/l	99
10) Methyl Iodide	2.40	142	153413	47.301	ug/l	100
11) Tert butyl alcohol	2.81	59	278278	282.875	ug/l	100
12) 1,1-Dichloroethene	2.27	96	161717	48.296	ug/l	96
13) Acrolein	2.18	56	132701	160.494	ug/l	100
14) Allyl chloride	2.58	41	302846m	47.308	ug/l	
15) Acrylonitrile	2.92	53	637530	260.241	ug/l	99
16) Acetone	2.31	43	525551	218.097	ug/l	98
17) Carbon Disulfide	2.47	76	324521	43.122	ug/l	100
18) Methyl Acetate	2.60	43	266510	45.453	ug/l	98
19) Methyl tert-butyl Ether	2.98	73	635539	52.073	ug/l	98
20) Methylene Chloride	2.68	84	203262	51.511	ug/l	99
21) trans-1,2-Dichloroethene	2.97	96	216893	61.467	ug/l	96
22) Diisopropyl ether	3.55	45	641035	51.348	ug/l	98
23) Vinyl Acetate	3.50	43	2563691	252.108	ug/l	99
24) 1,1-Dichloroethane	3.43	63	357595	47.965	ug/l	100
25) 2-Butanone	4.24	43	824646	256.368	ug/l	100
26) 2,2-Dichloropropane	4.20	77	260679	43.474	ug/l	92
27) cis-1,2-Dichloroethene	4.20	96	411684	96.062	ug/l	92
28) Bromochloromethane	4.52	49	177182	51.669	ug/l	98
29) Tetrahydrofuran	4.61	42	523538	267.472	ug/l	99
30) Chloroform	4.65	83	368026	48.564	ug/l	99
31) Cyclohexane	4.97	56	250460	45.920	ug/l	98
32) 1,1,1-Trichloroethane	4.89	97	290658	47.972	ug/l	99
36) 1,1-Dichloropropene	5.12	75	234939	47.381	ug/l	99
37) Ethyl Acetate	4.36	43	281456	48.009	ug/l	99
38) Carbon Tetrachloride	5.11	117	245791	46.425	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.40	83	248161	46.817	ug/l	97
40) Benzene	5.37	78	780040	48.753	ug/l	99
41) Methacrylonitrile	4.52	41	162686	52.097	ug/l	98
42) 1,2-Dichloroethane	5.38	62	263421	47.420	ug/l	99
43) Isopropyl Acetate	5.53	43	458408	50.124	ug/l	98
44) Trichloroethene	6.16	130	1017642	229.846	ug/l	100
45) 1,2-Dichloropropane	6.41	63	224889	48.080	ug/l	97
46) Dibromomethane	6.54	93	141873	48.321	ug/l	98
47) Bromodichloromethane	6.74	83	287122	47.508	ug/l	100
48) Methyl methacrylate	6.60	41	221253	50.936	ug/l	99
49) 1,4-Dioxane	6.59	88	108588	1144.817	ug/l	98
51) 4-Methyl-2-Pentanone	7.44	43	1600252	252.784	ug/l	99
52) Toluene	7.62	92	500203	49.837	ug/l	100
53) t-1,3-Dichloropropene	7.86	75	312225	49.837	ug/l	98
54) cis-1,3-Dichloropropene	7.25	75	335071	48.731	ug/l	99
55) 1,1,2-Trichloroethane	8.04	97	221669	48.639	ug/l	100
56) Ethyl methacrylate	8.00	69	334459	48.408	ug/l	98
57) 1,3-Dichloropropane	8.22	76	360802	48.618	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.08	63	817	16.941	ug/l #	48
59) 2-Hexanone	8.34	43	1220884	258.157	ug/l	99
60) Dibromochloromethane	8.46	129	241151	49.332	ug/l	98
61) 1,2-Dibromoethane	8.57	107	220895	49.520	ug/l	99
64) Tetrachloroethene	8.21	164	187201	47.859	ug/l	98
65) Chlorobenzene	9.10	112	578182	50.546	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.19	131	214180	49.063	ug/l	100
67) Ethyl Benzene	9.23	91	974086	52.082	ug/l	100
68) m/p-Xylenes	9.35	106	747284	106.106	ug/l	100
69) o-Xylene	9.76	106	377139	54.756	ug/l	98
70) Styrene	9.77	104	663549	54.949	ug/l	99
71) Bromoform	9.94	173	188250	49.758	ug/l #	98
73) Isopropylbenzene	10.14	105	1008326	52.777	ug/l	99
74) N-amyl acetate	9.99	43	406089	52.804	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.44	83	380383	49.187	ug/l	99
76) 1,2,3-Trichloropropane	10.47	75	319412m	49.843	ug/l	
77) Bromobenzene	10.43	156	276547	51.767	ug/l	97
78) n-propylbenzene	10.57	91	1159836	52.564	ug/l	100
79) 2-Chlorotoluene	10.64	91	698851	51.908	ug/l	100
80) 1,3,5-Trimethylbenzene	10.75	105	859978	53.820	ug/l	100
81) trans-1,4-Dichloro-2-buten	10.49	75	93656m	49.148	ug/l	
82) 4-Chlorotoluene	10.75	91	803270	51.846	ug/l	99
83) tert-Butylbenzene	11.08	119	858013	53.677	ug/l	99
84) 1,2,4-Trimethylbenzene	11.13	105	875697	54.444	ug/l	100
85) sec-Butylbenzene	11.30	105	1002817	53.140	ug/l	99
86) p-Isopropyltoluene	11.45	119	932271	53.524	ug/l	99
87) 1,3-Dichlorobenzene	11.40	146	497206	51.005	ug/l	100
88) 1,4-Dichlorobenzene	11.49	146	499532	49.129	ug/l	100
89) n-Butylbenzene	11.87	91	811965	53.643	ug/l	99
90) Hexachloroethane	12.12	117	134504	48.267	ug/l	99
91) 1,2-Dichlorobenzene	11.86	146	495380	51.707	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.64	75	77193	54.320	ug/l	95

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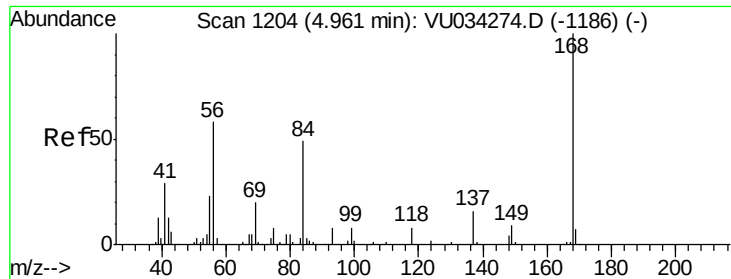
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.48	180	346078	49.821	ug/l	100
94) Hexachlorobutadiene	13.67	225	155337	46.353	ug/l	99
95) Naphthalene	13.72	128	1297233	65.006	ug/l	99
96) 1,2,3-Trichlorobenzene	13.97	180	342035	50.914	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MS

Tot Ion:168 Resp: 307760

Ion Ratio Lower Upper

168 100

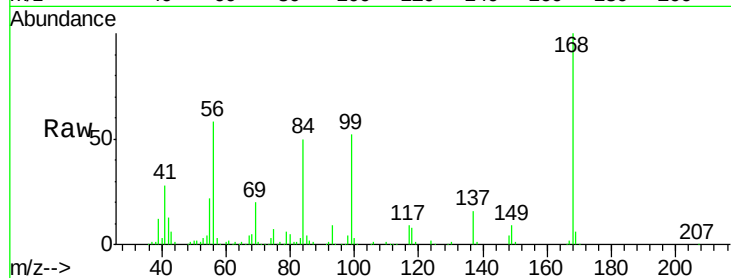
99 51.2 41.6 62.4

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VU034274.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU034274.D (-1186) (-)

4.96

150000

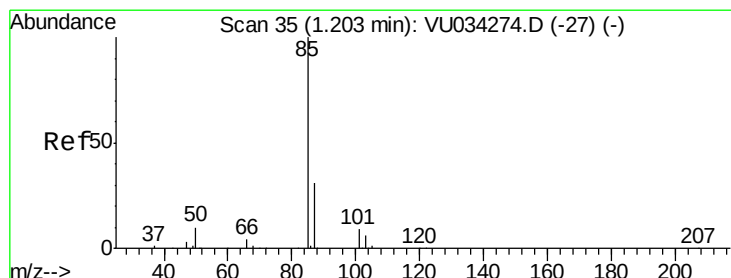
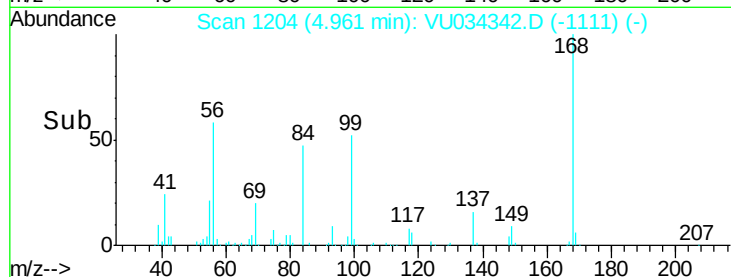
100000

50000

0

4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 44.169 ug/l

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU034342.D

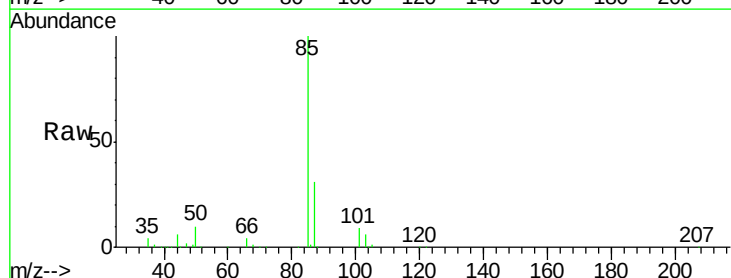
Acq: 06 Sep 2019 19:40

Tgt Ion: 85 Resp: 142169

Ion Ratio Lower Upper

85 100

87 31.4 15.7 47.0



Abundance Ion 84.90 (84.60 to 85.60): VU034274.D (-27) (-)

Ion 86.90 (86.60 to 87.60): VU034274.D (-27) (-)

1.20

150000

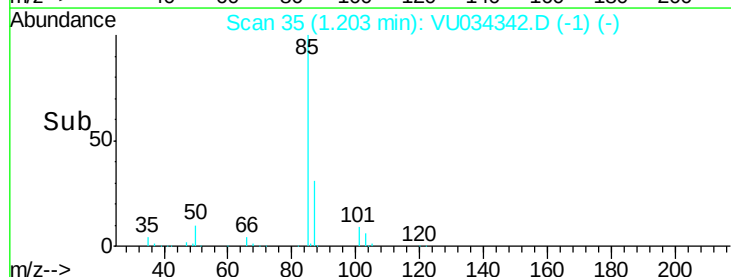
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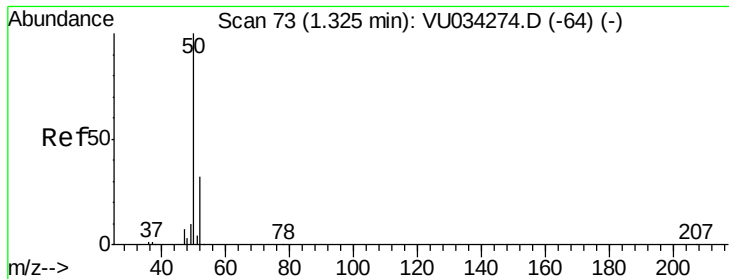
50000

0

1.15 1.20 1.25

Time-->





#3

Chloromethane

Concen: 48.425 ug/l

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

Instrument :

MSVOA_U

ClientSampleId :

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Tot Ion: 50 Resp: 168404

Ion Ratio Lower Upper

50 100

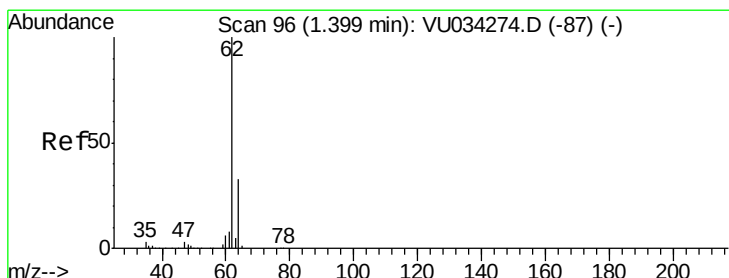
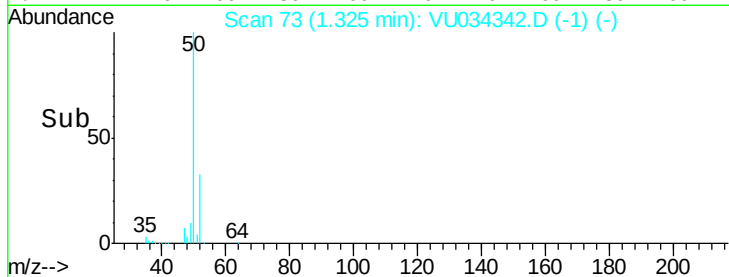
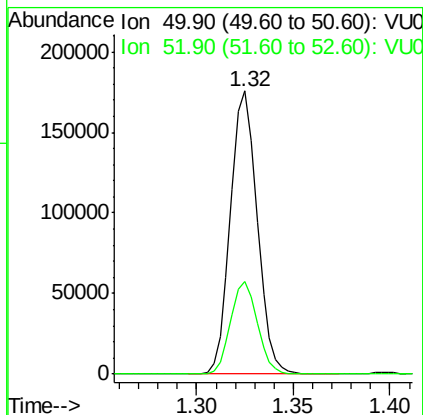
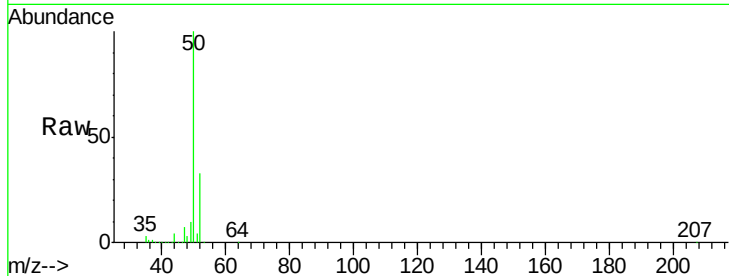
52 32.6 25.8 38.6

Manual Integrations

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9/10/2019 10:48:54 AM



#4

Vinyl Chloride

Concen: 45.412 ug/l

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU034342.D

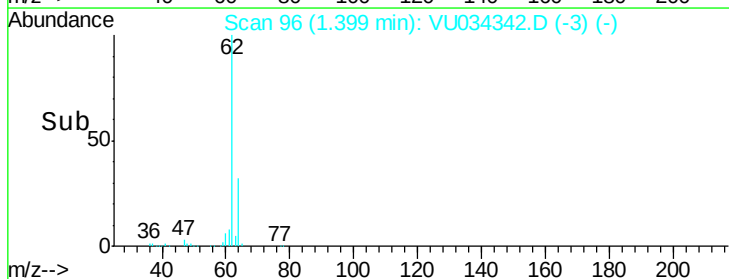
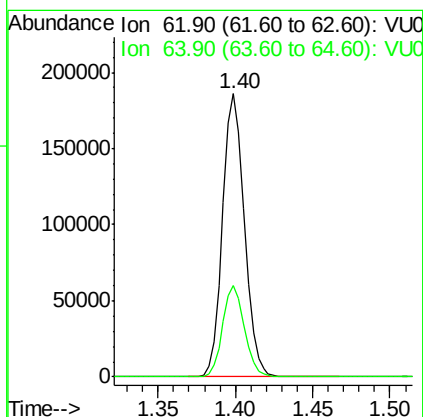
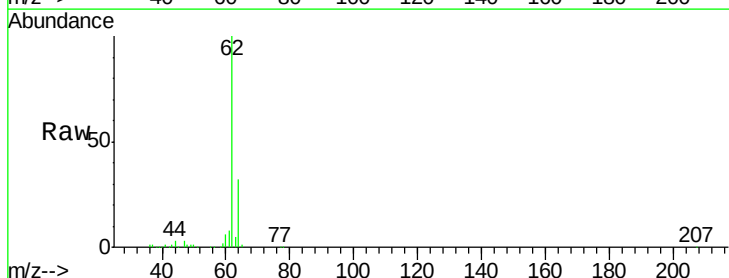
Acq: 06 Sep 2019 19:40

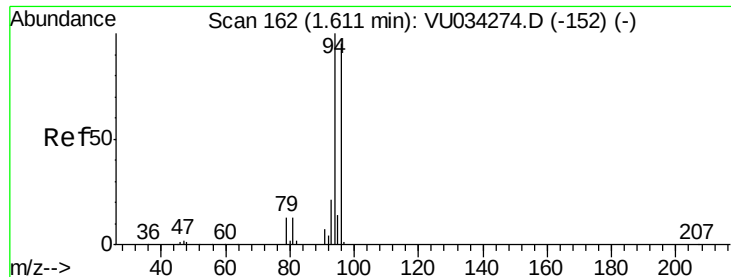
Tgt Ion: 62 Resp: 182143

Ion Ratio Lower Upper

62 100

64 32.3 26.2 39.4





#5

Bromomethane

Concen: 54.058 ug/l

RT: 1.61 min Scan# 162

Delta R.T. 0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

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Tot Ion: 94 Resp: 109339

Ion Ratio Lower Upper

94 100

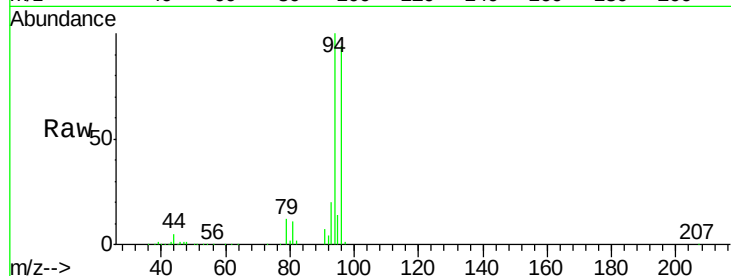
96 94.2 75.7 113.5

Manual Integrations

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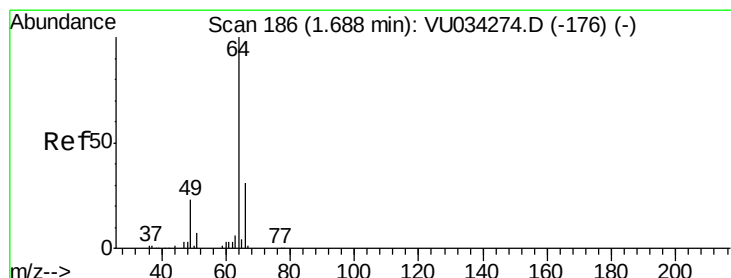
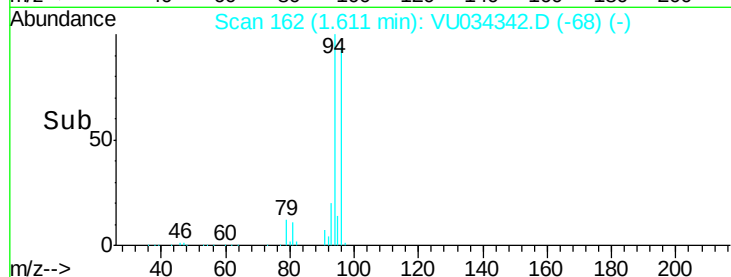
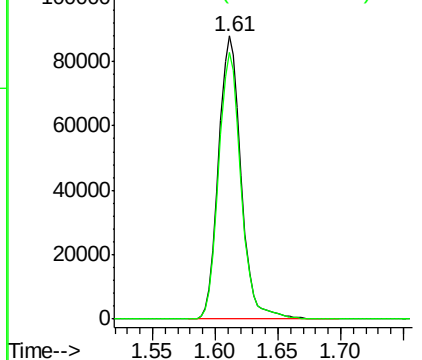
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Abundance Ion 93.90 (93.60 to 94.60): VU034342.D (-152) (-)

Ion 95.90 (95.60 to 96.60): VU034342.D (-152) (-)



#6

Chloroethane

Concen: 49.830 ug/l

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU034342.D

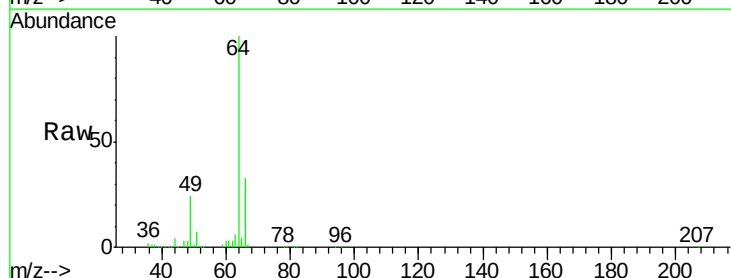
Acq: 06 Sep 2019 19:40

Tgt Ion: 64 Resp: 116174

Ion Ratio Lower Upper

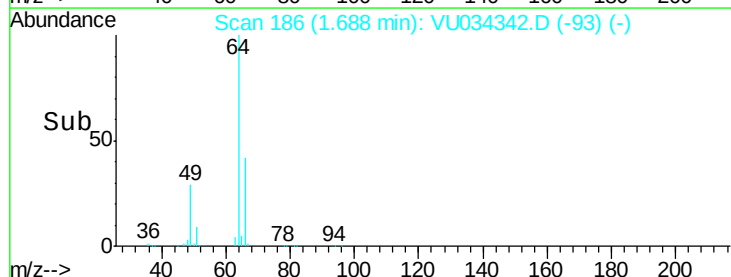
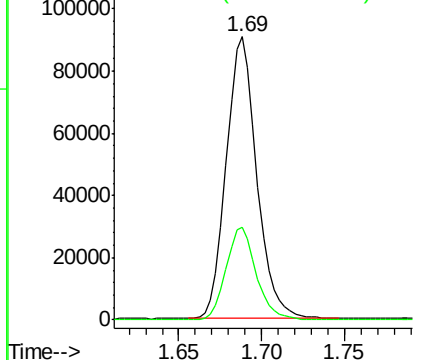
64 100

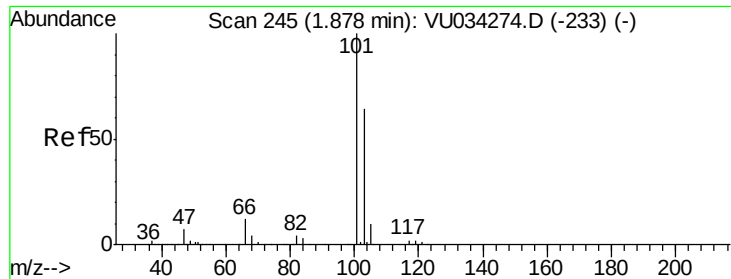
66 33.0 25.0 37.6



Abundance Ion 63.90 (63.60 to 64.60): VU034342.D (-176) (-)

Ion 65.90 (65.60 to 66.60): VU034342.D (-176) (-)





#7

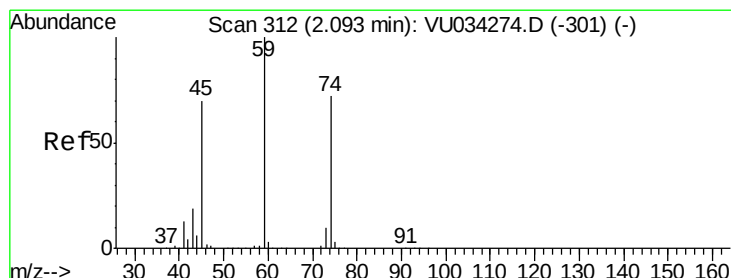
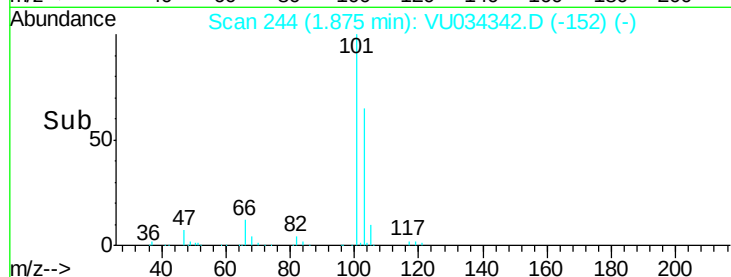
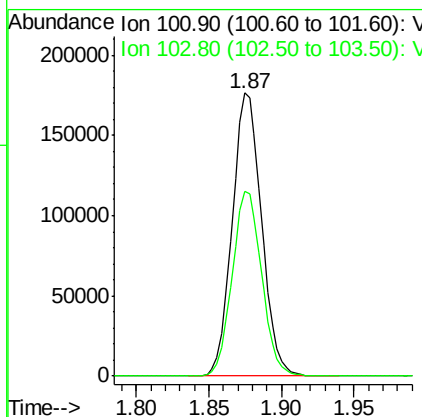
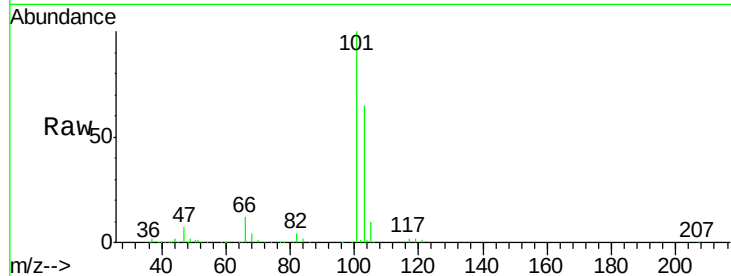
Trichlorofluoromethane
 Concen: 45.981 ug/l
 RT: 1.87 min Scan# 244
 Delta R.T. -0.00 min
 Lab File: VU034342.D
 Acq: 06 Sep 2019 19:40

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Tot Ion	Ratio	Lower	Upper
101	100		
103	65.4	51.0	76.6

Manual Integrations
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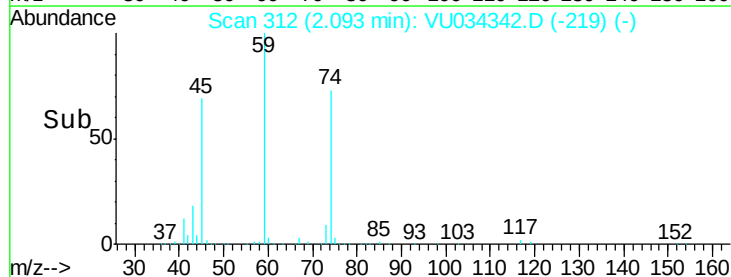
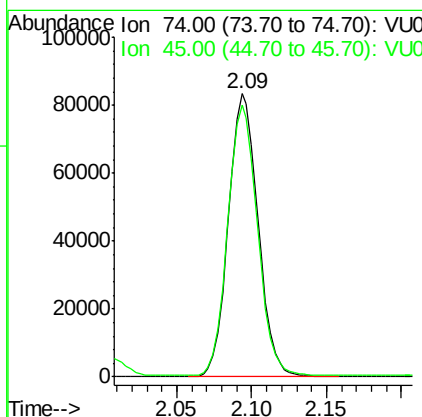
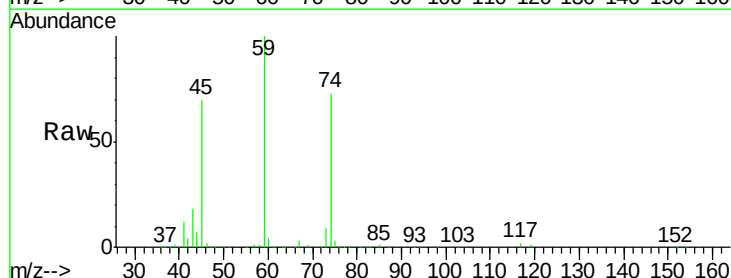
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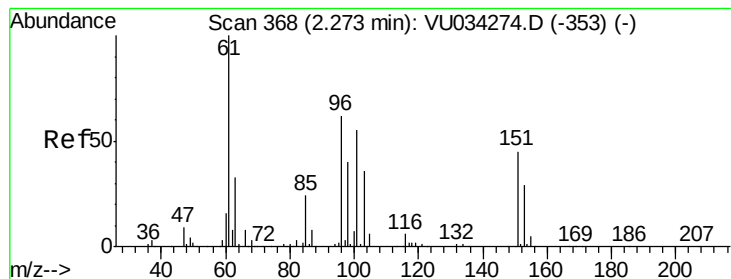


#8

Diethyl Ether
 Concen: 48.819 ug/l
 RT: 2.09 min Scan# 312
 Delta R.T. 0.00 min
 Lab File: VU034342.D
 Acq: 06 Sep 2019 19:40

Tgt Ion	Ratio	Lower	Upper
74	100		
45	95.8	48.2	144.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 44.623 ug/l

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

Instrument :

MSVOA_U

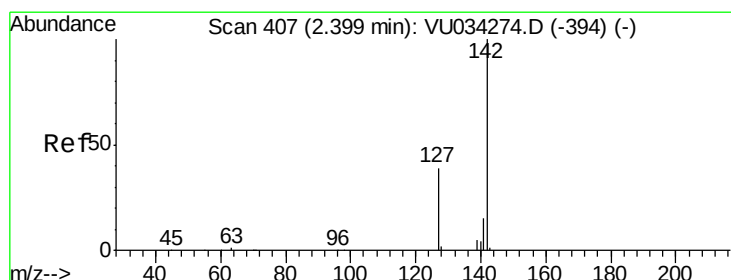
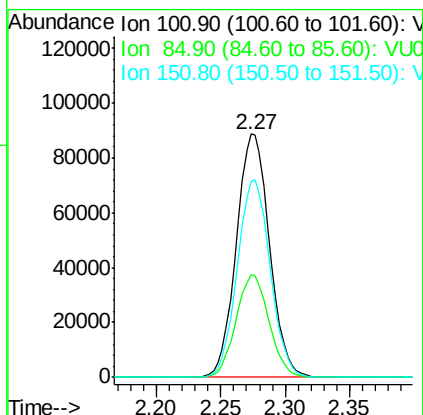
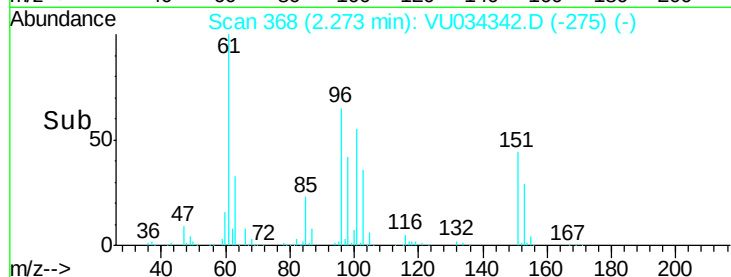
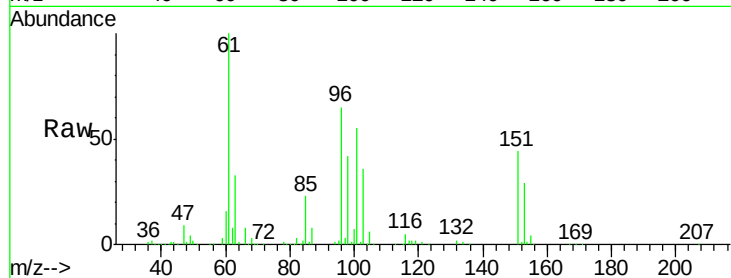
ClientSampleId :

GW-200-B4-47.0-52.0-090519MS

Tot Ion	Ratio	Resp	Lower	Upper
101	100	158944		
85	42.0		34.4	51.6
151	80.9		64.4	96.6

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#10

Methyl Iodide

Concen: 47.301 ug/l

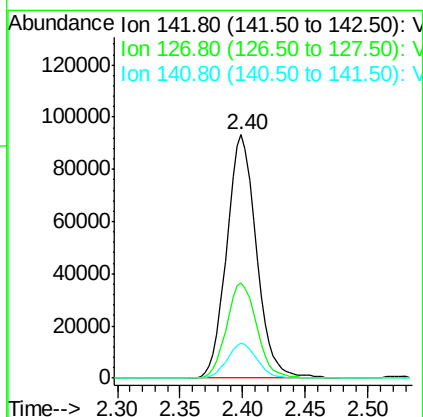
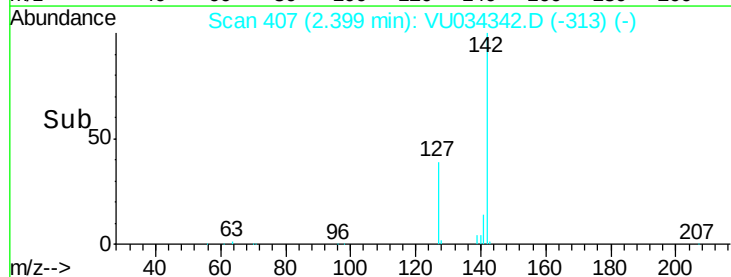
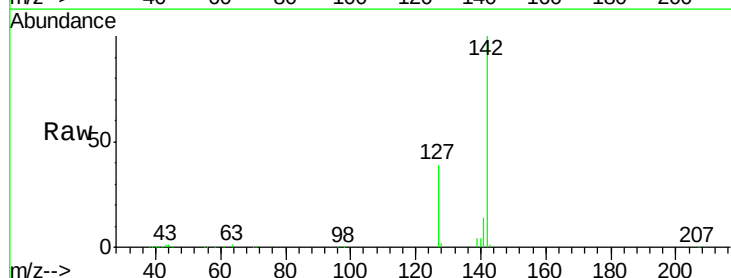
RT: 2.40 min Scan# 407

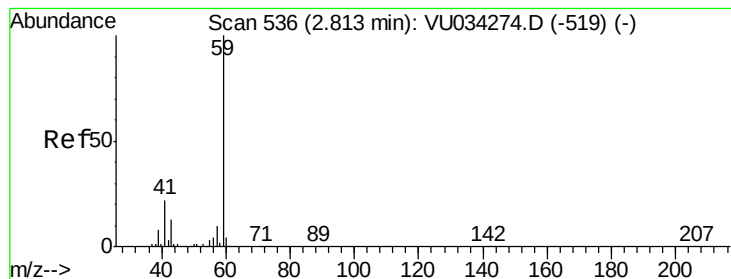
Delta R.T. 0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	153413		
127	39.8		32.1	48.1
141	14.3		11.5	17.3





#11

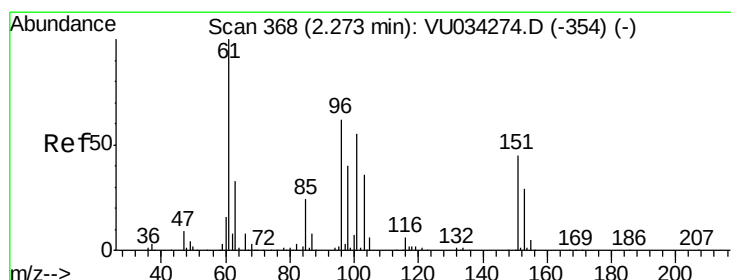
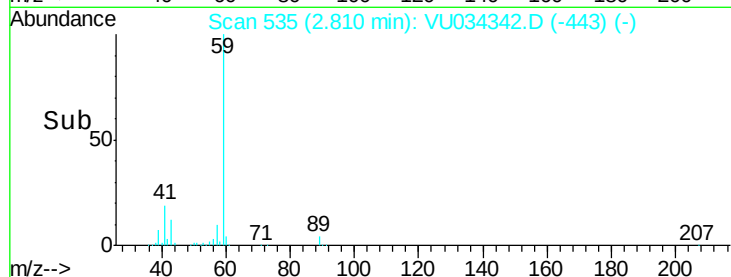
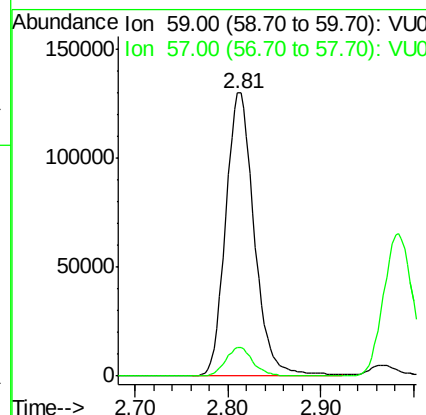
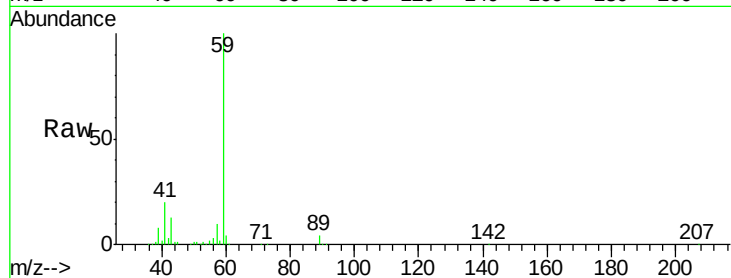
Tert butyl alcohol
 Concen: 282.875 ug/l
 RT: 2.81 min Scan# 535
 Delta R.T. -0.00 min
 Lab File: VU034342.D
 Acq: 06 Sep 2019 19:40

Instrument :
 MSVOA_U
 ClientSampleId :
 GW-200-B4-47.0-52.0-090519MS

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.8	7.9	11.9

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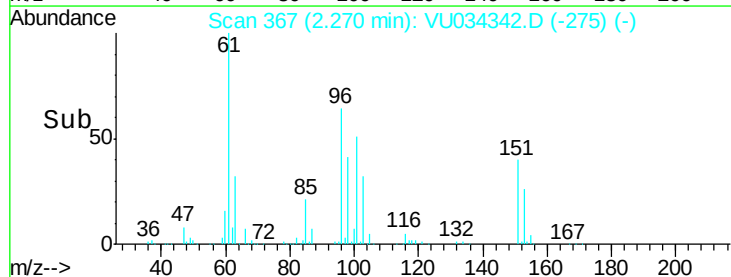
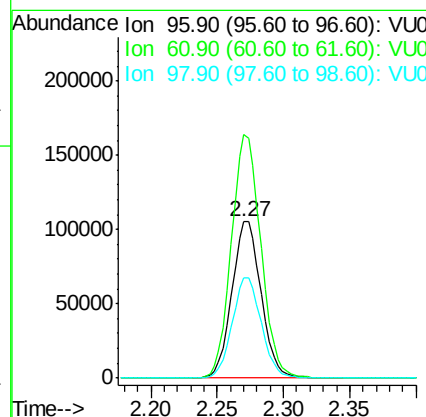
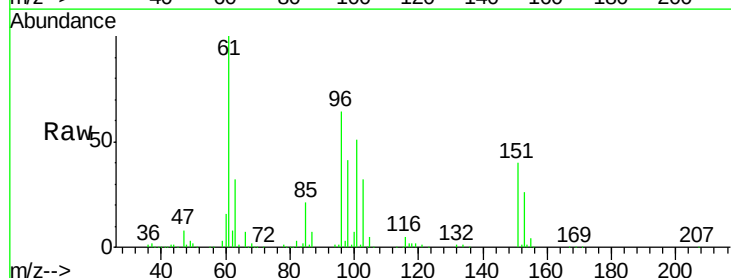
MMDadoda
 9/10/2019 10:48:54 AM

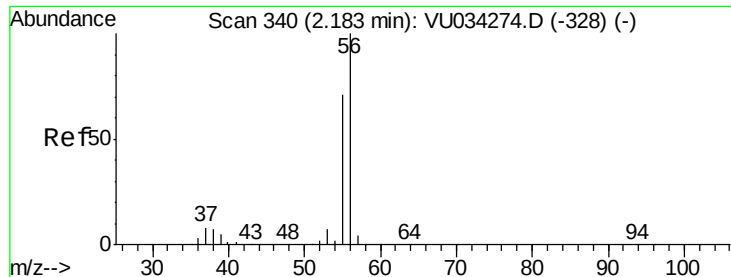


#12

1,1-Dichloroethene
 Concen: 48.296 ug/l
 RT: 2.27 min Scan# 367
 Delta R.T. -0.00 min
 Lab File: VU034342.D
 Acq: 06 Sep 2019 19:40

Tgt Ion	Ratio	Lower	Upper
96	100		
61	155.6	130.0	195.0
98	63.9	52.2	78.4





#13

Acrolein

Concen: 160.494 ug/l

RT: 2.18 min Scan# 340

Delta R.T. 0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MS

Tot Ion: 56 Resp: 132701

Ion Ratio Lower Upper

56 100

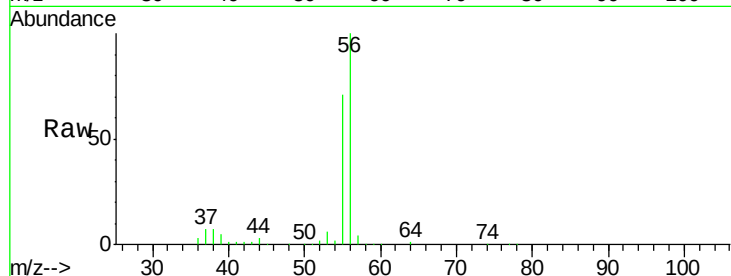
55 71.5 57.4 86.2

Manual Integrations

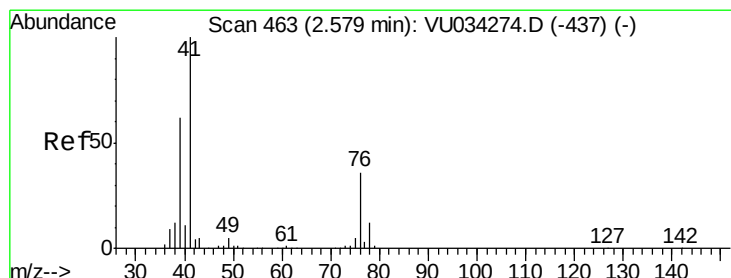
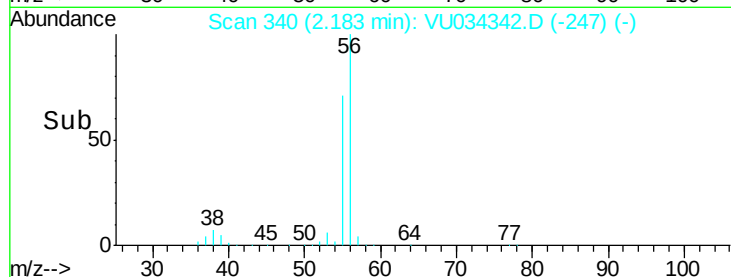
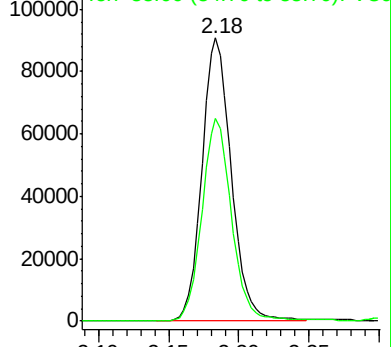
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Abundance Ion 56.00 (55.70 to 56.70): VU034342.D (-247) (-)



#14

Allyl chloride

Concen: 47.308 ug/l m

RT: 2.58 min Scan# 463

Delta R.T. 0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

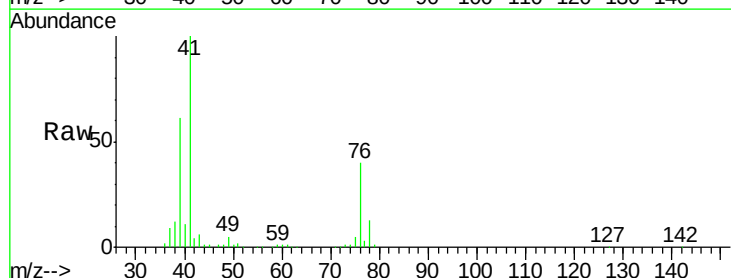
Tgt Ion: 41 Resp: 302846

Ion Ratio Lower Upper

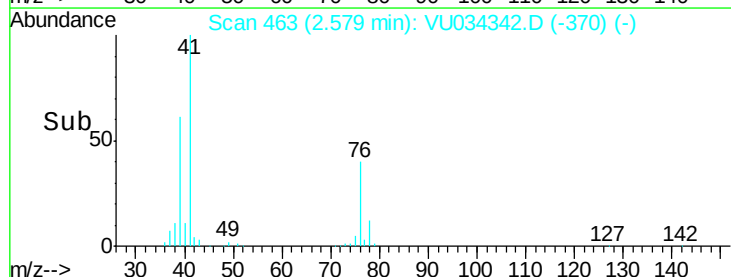
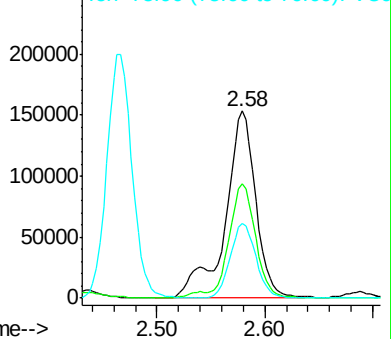
41 100

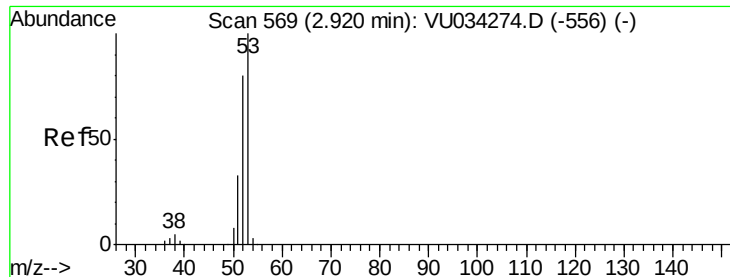
39 51.4 43.5 65.3

76 33.5 27.0 40.6



Abundance Ion 41.00 (40.70 to 41.70): VU034342.D (-370) (-)





#15

Acrylonitrile

Concen: 260.241 ug/l

RT: 2.92 min Scan# 569

Delta R.T. 0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

Instrument :

MSVOA_U

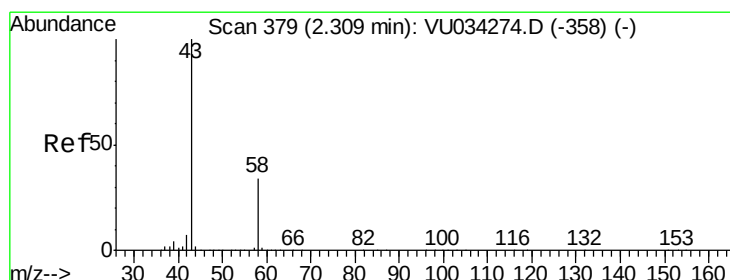
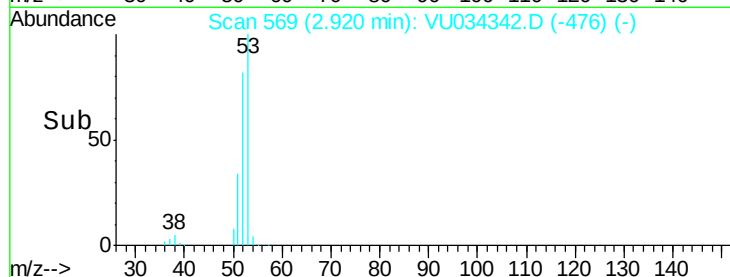
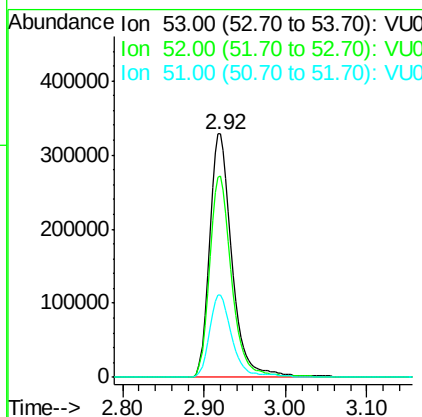
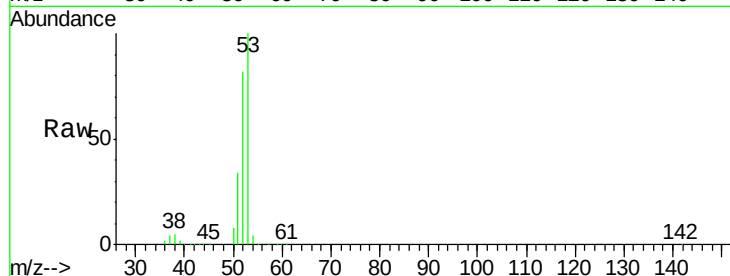
ClientSampleId :

GW-200-B4-47.0-52.0-090519MS

Tot Ion:	53	Resp:	637530
Ion	Ratio	Lower	Upper
53	100		
52	81.3	64.1	96.1
51	34.6	27.4	41.0

Manual Integrations
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#16

Acetone

Concen: 218.097 ug/l

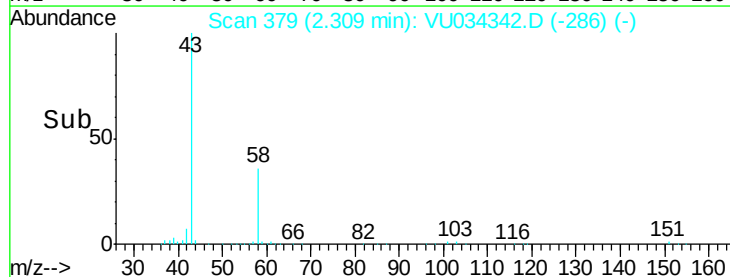
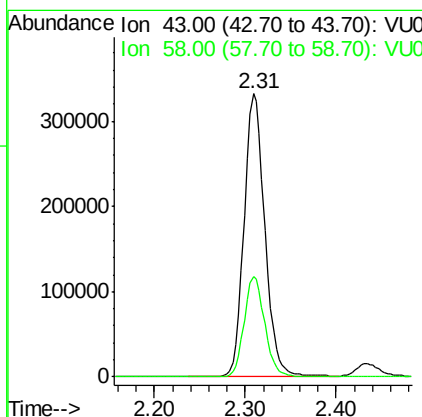
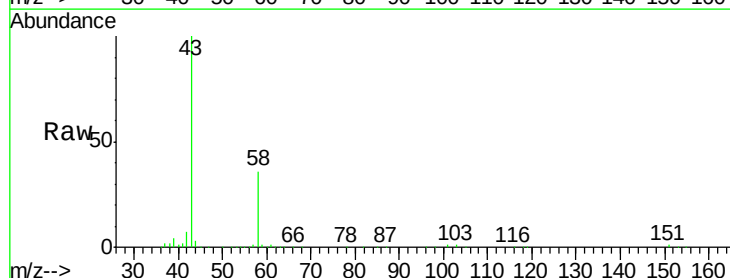
RT: 2.31 min Scan# 379

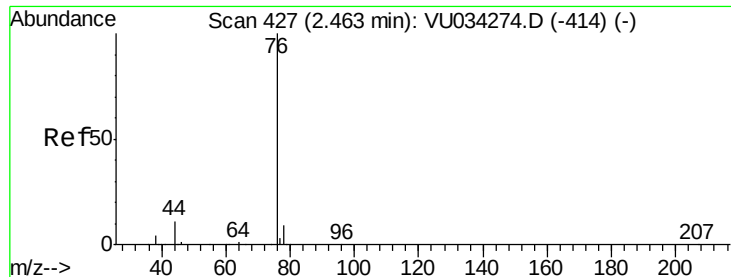
Delta R.T. 0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

Tgt Ion:	43	Resp:	525551
Ion	Ratio	Lower	Upper
43	100		
58	35.4	27.6	41.4





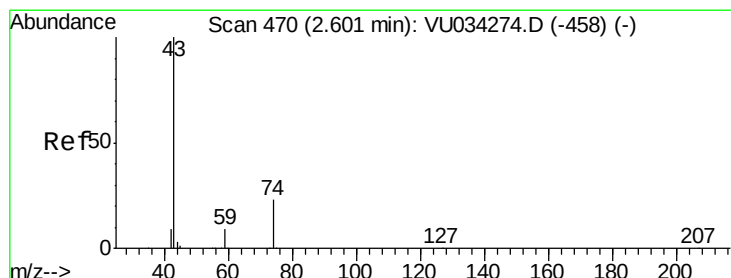
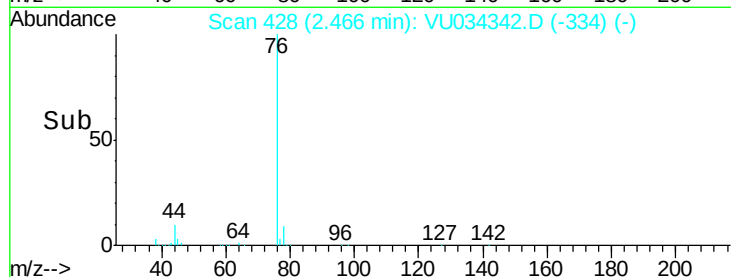
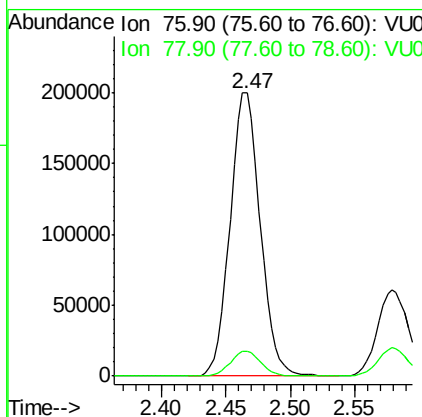
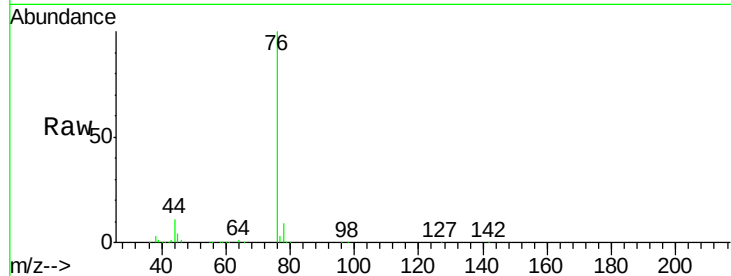
#17
Carbon Disulfide
Concen: 43.122 ug/l
RT: 2.47 min Scan# 428
Delta R.T. 0.00 min
Lab File: VU034342.D
Acq: 06 Sep 2019 19:40

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MS

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.2	10.8

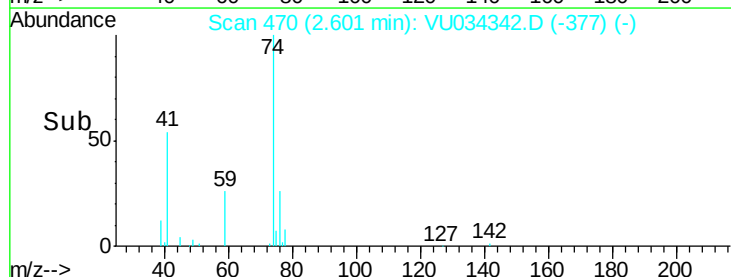
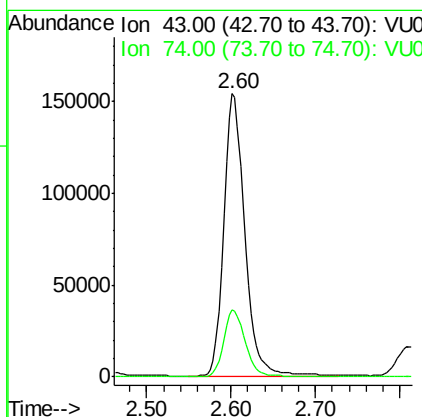
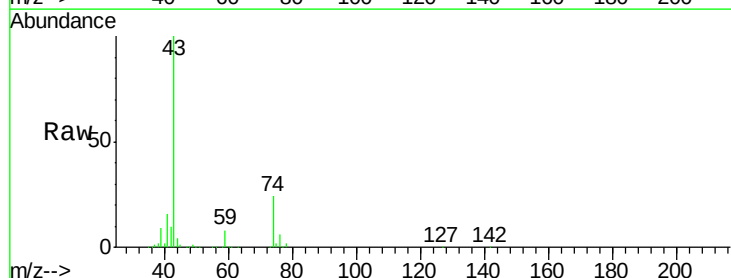
Manual Integrations
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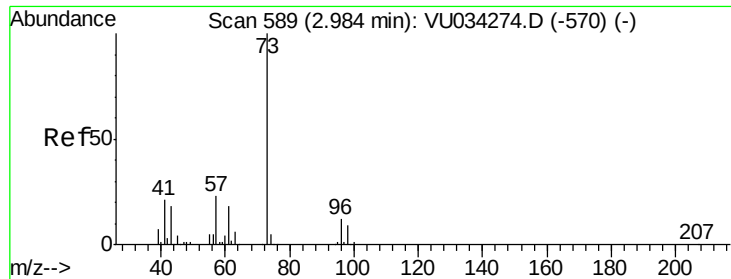
MMDadoda
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#18
Methyl Acetate
Concen: 45.453 ug/l
RT: 2.60 min Scan# 470
Delta R.T. 0.00 min
Lab File: VU034342.D
Acq: 06 Sep 2019 19:40

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.4	18.9	28.3





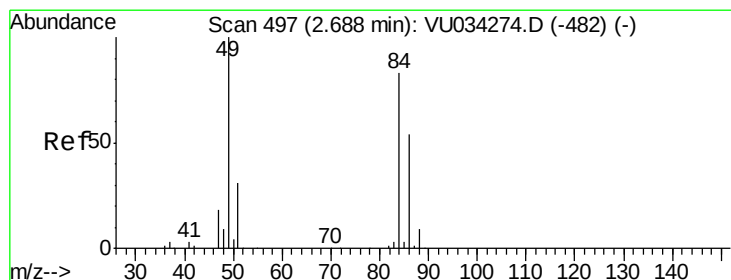
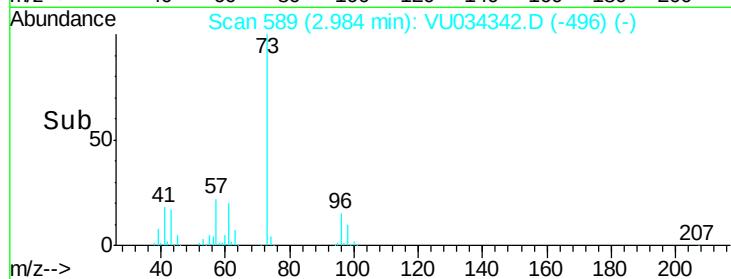
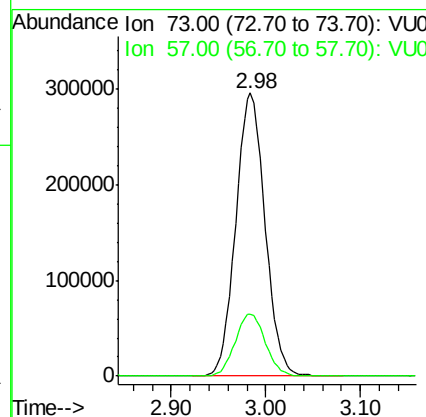
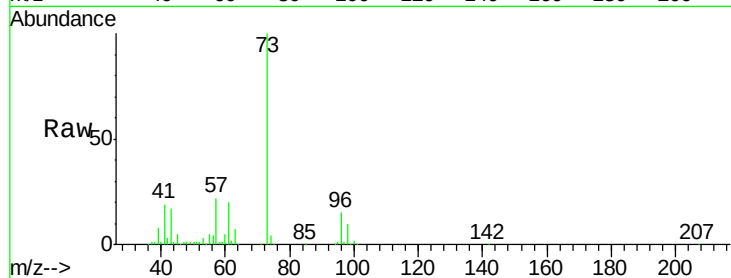
#19
Methyl tert-butyl Ether
Concen: 52.073 ug/l
RT: 2.98 min Scan# 589
Delta R.T. 0.00 min
Lab File: VU034342.D
Acq: 06 Sep 2019 19:40

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MS

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.1	18.2	27.4

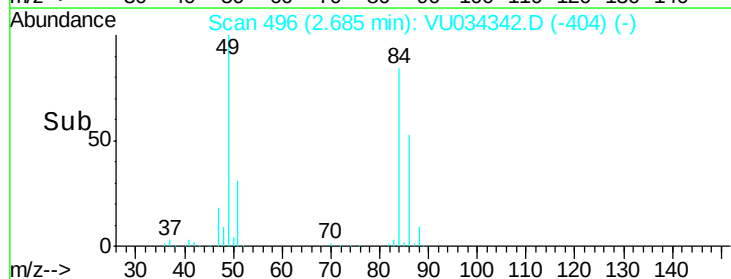
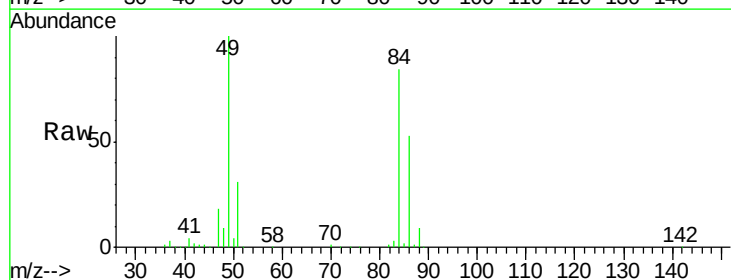
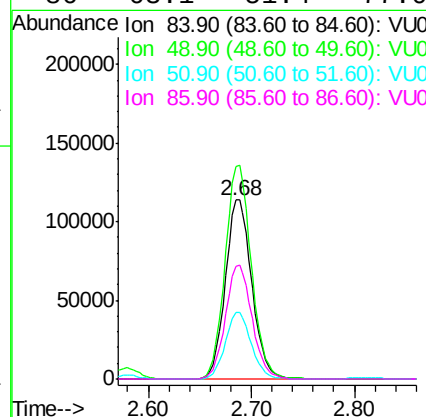
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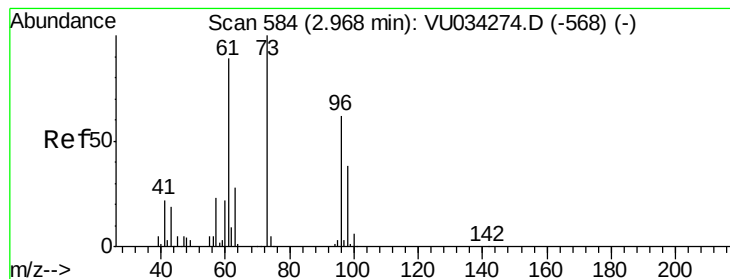
MMDadoda
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#20
Methylene Chloride
Concen: 51.511 ug/l
RT: 2.68 min Scan# 496
Delta R.T. -0.00 min
Lab File: VU034342.D
Acq: 06 Sep 2019 19:40

Tgt Ion	Ratio	Lower	Upper
84	100		
49	118.9	96.0	144.0
51	36.9	30.0	45.0
86	63.1	51.4	77.0





#21

trans-1,2-Dichloroethene

Concen: 61.467 ug/l

RT: 2.97 min Scan# 584

Delta R.T. 0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MS

Tot Ion: 96 Resp: 216893

Ion Ratio Lower Upper

96 100

61 137.4 114.8 172.2

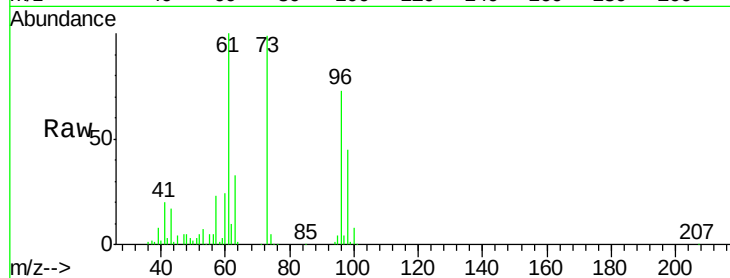
98 61.6 49.8 74.8

Manual Integrations

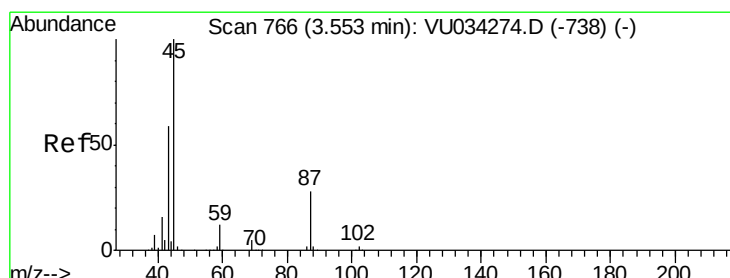
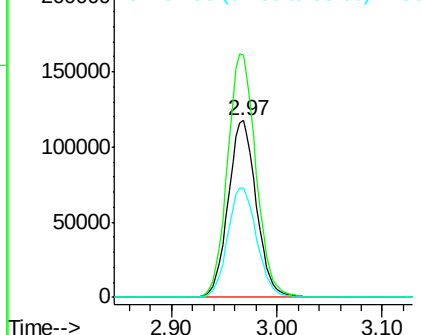
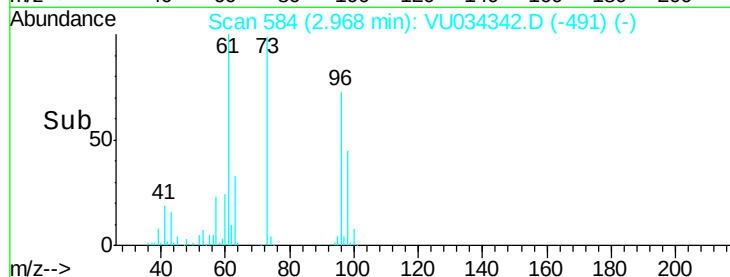
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Abundance Ion 95.90 (95.60 to 96.60): VU034342.D (-491) (-)



#22

Diisopropyl ether

Concen: 51.348 ug/l

RT: 3.55 min Scan# 766

Delta R.T. 0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

Tgt Ion: 45 Resp: 641035

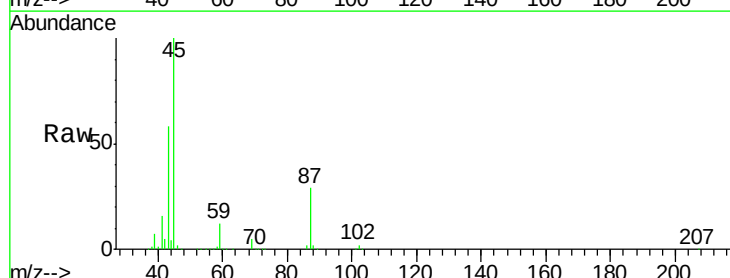
Ion Ratio Lower Upper

45 100

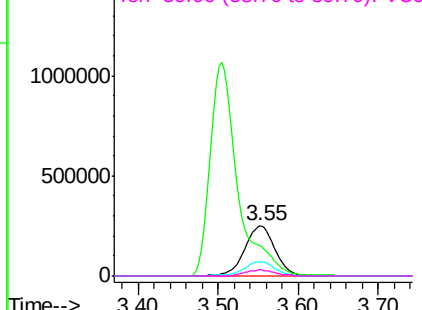
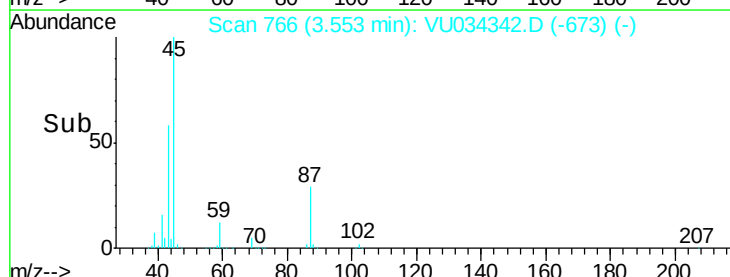
43 57.7 47.5 71.3

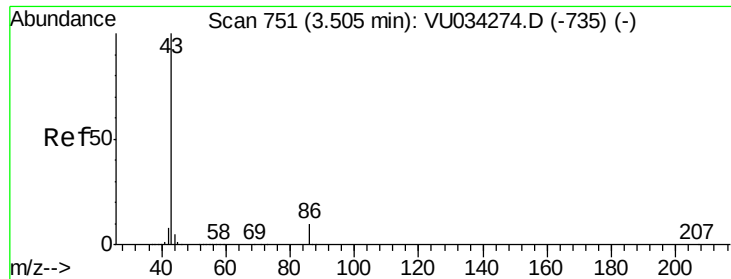
87 28.9 22.2 33.4

59 12.0 9.4 14.2



Abundance Ion 45.00 (44.70 to 45.70): VU034342.D (-673) (-)





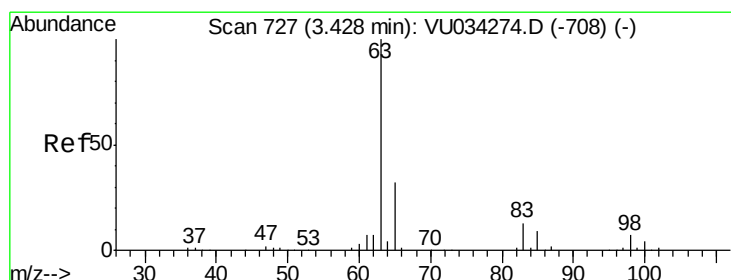
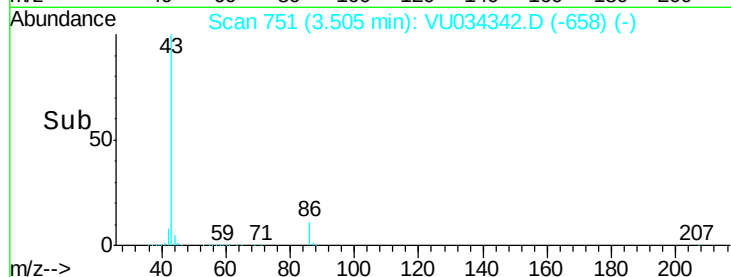
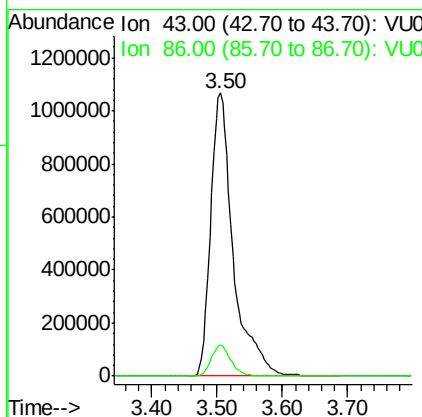
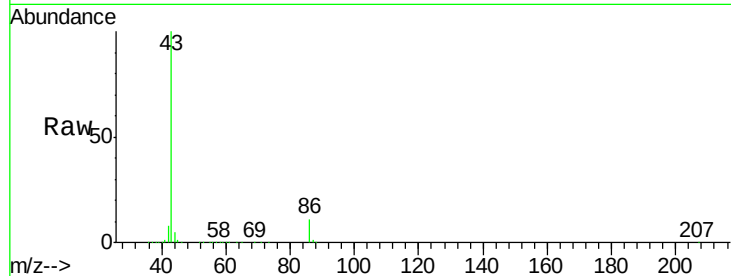
#23
 Vinyl Acetate
 Concen: 252.108 ug/l
 RT: 3.50 min Scan# 751
 Delta R.T. 0.00 min
 Lab File: VU034342.D
 Acq: 06 Sep 2019 19:40

Instrument :
 MSVOA_U
 ClientSampleId :
 GW-200-B4-47.0-52.0-090519MS

Tot Ion: 43 Resp: 2563691
 Ion Ratio Lower Upper
 43 100
 86 10.9 8.3 12.5

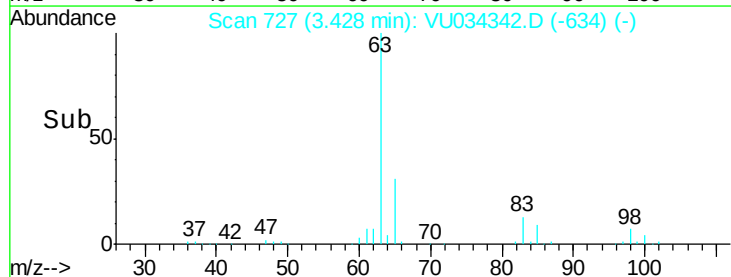
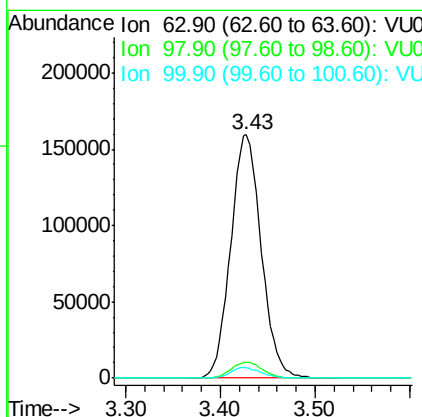
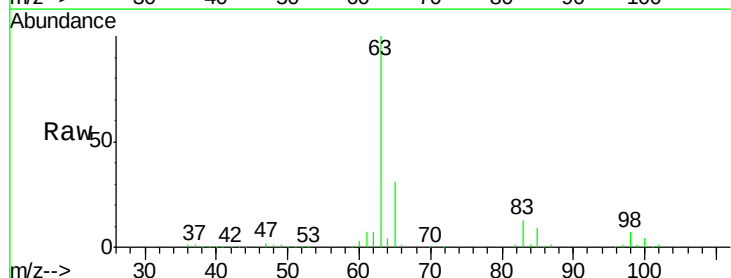
Manual Integrations
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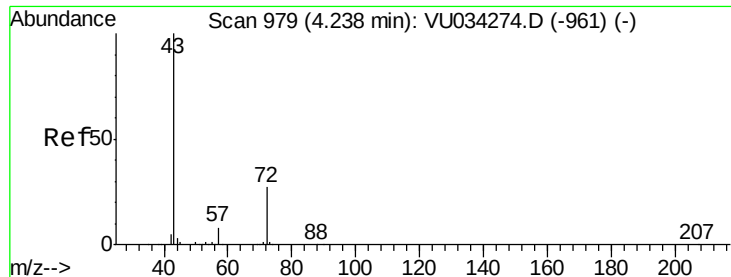
MMDadoda
 9/10/2019 10:48:54 AM



#24
 1,1-Dichloroethane
 Concen: 47.965 ug/l
 RT: 3.43 min Scan# 727
 Delta R.T. 0.00 min
 Lab File: VU034342.D
 Acq: 06 Sep 2019 19:40

Tgt Ion: 63 Resp: 357595
 Ion Ratio Lower Upper
 63 100
 98 6.7 3.5 10.4
 100 4.2 2.1 6.5





#25

2-Butanone

Concen: 256.368 ug/l

RT: 4.24 min Scan# 979

Delta R.T. 0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MS

Tot Ion: 43 Resp: 824646

Ion Ratio Lower Upper

43 100

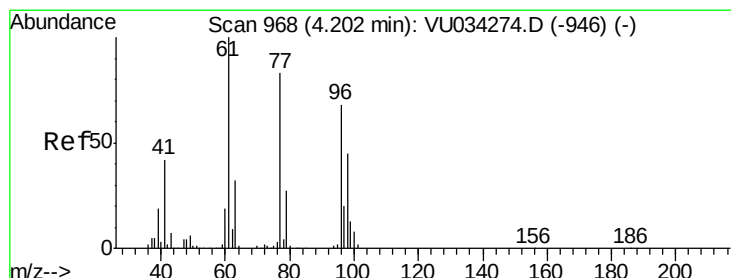
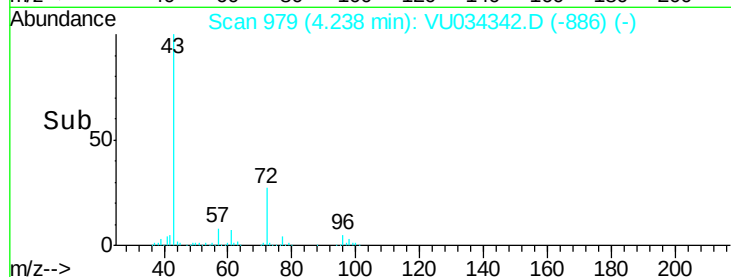
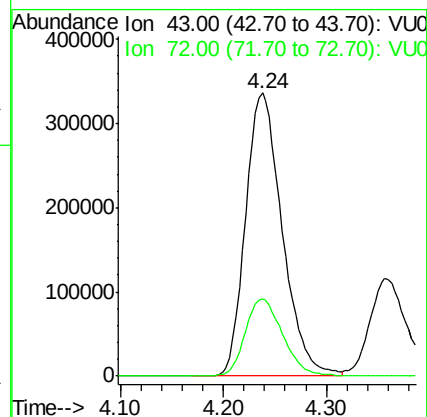
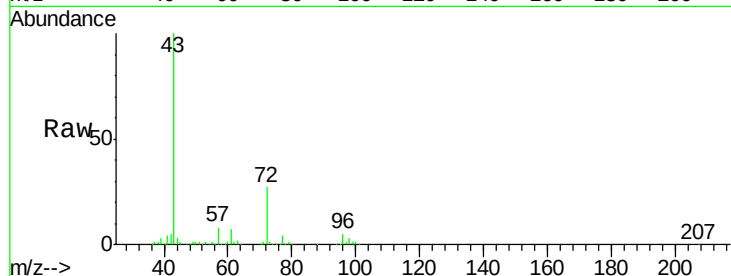
72 27.3 21.8 32.6

Manual Integrations

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9/10/2019 10:48:54 AM



#26

2,2-Dichloropropane

Concen: 43.474 ug/l

RT: 4.20 min Scan# 968

Delta R.T. 0.00 min

Lab File: VU034342.D

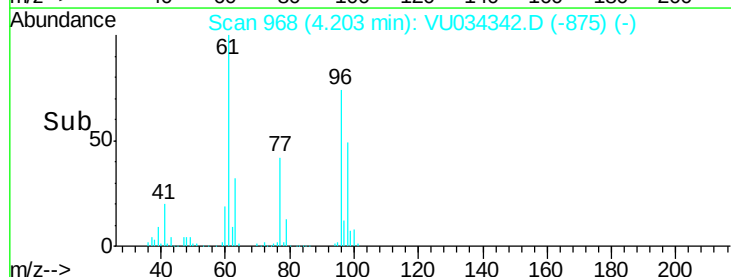
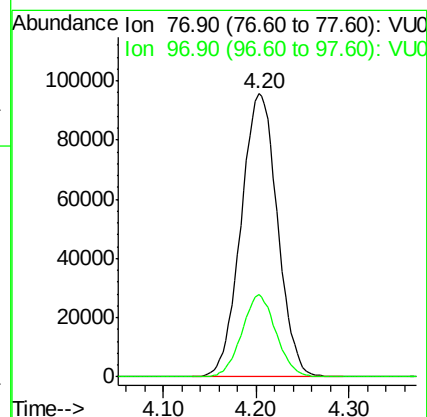
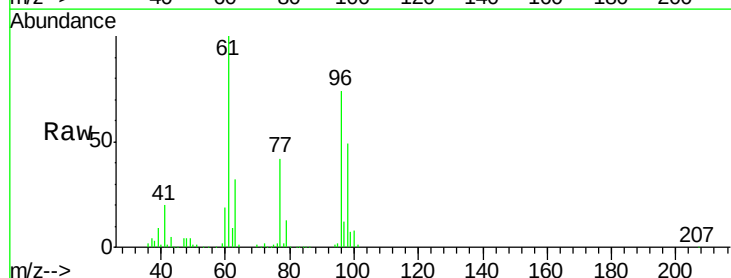
Acq: 06 Sep 2019 19:40

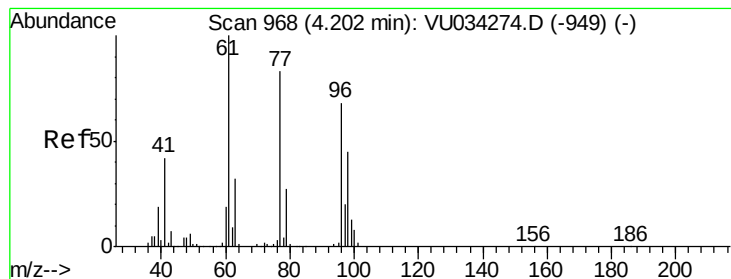
Tgt Ion: 77 Resp: 260679

Ion Ratio Lower Upper

77 100

97 27.2 11.8 35.3





#27

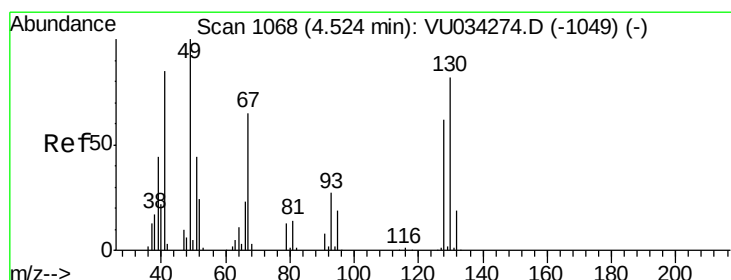
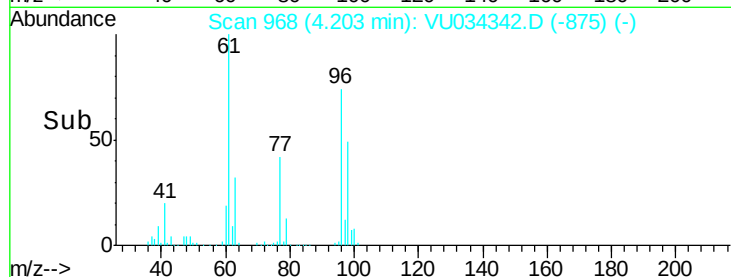
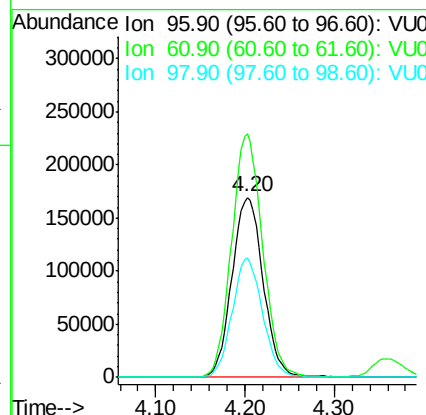
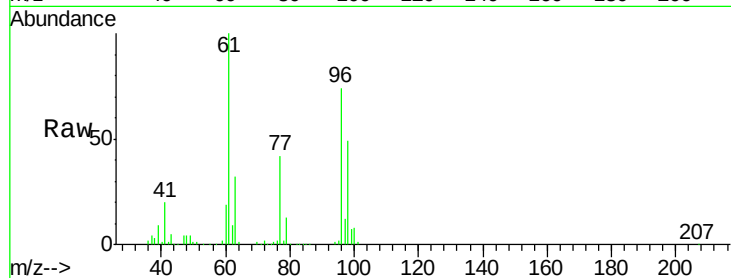
cis-1,2-Dichloroethene
 Concen: 96.062 ug/l
 RT: 4.20 min Scan# 968
 Delta R.T. 0.00 min
 Lab File: VU034342.D
 Acq: 06 Sep 2019 19:40

Instrument :
 MSVOA_U
 ClientSampleId :
 GW-200-B4-47.0-52.0-090519MS

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	134.5	0.0	297.4	
98	64.5	0.0	130.0	

Manual Integrations
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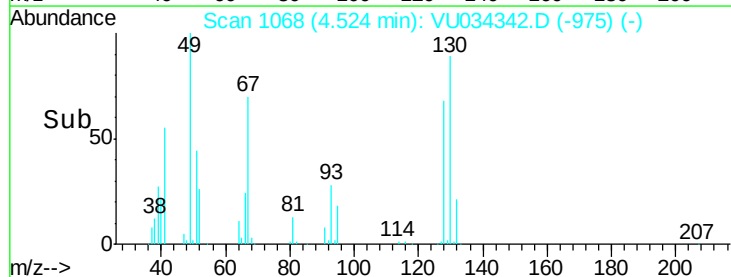
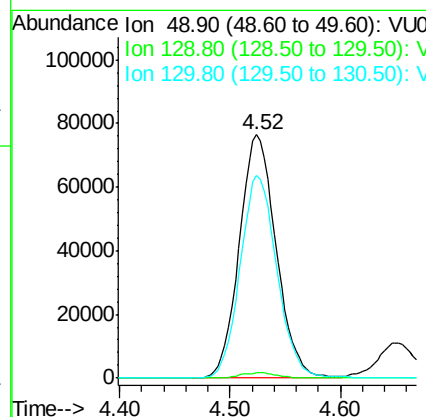
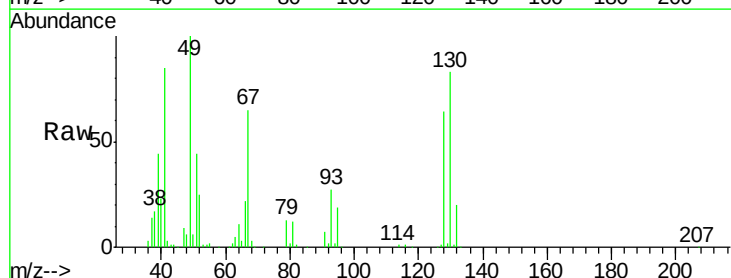
MMDadoda
 9/10/2019 10:48:54 AM

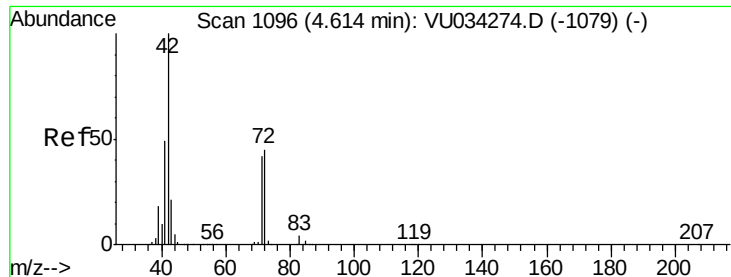


#28

Bromochloromethane
 Concen: 51.669 ug/l
 RT: 4.52 min Scan# 1068
 Delta R.T. 0.00 min
 Lab File: VU034342.D
 Acq: 06 Sep 2019 19:40

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.0	0.0	3.8	
130	83.1	65.2	97.8	





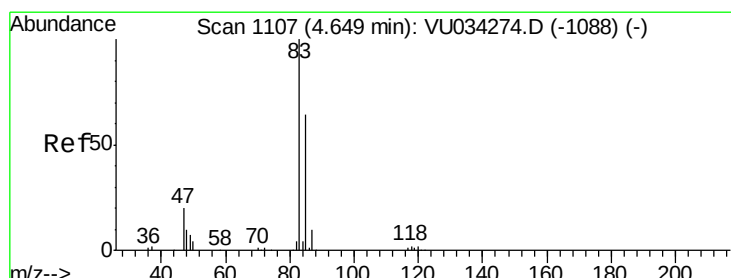
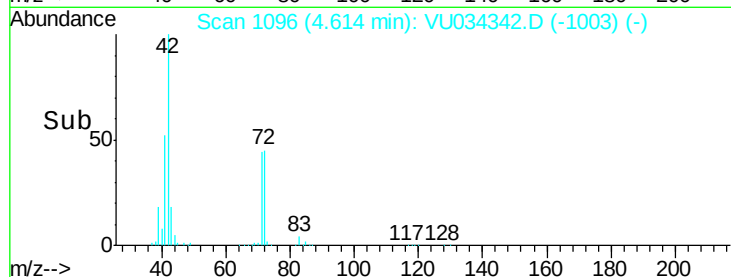
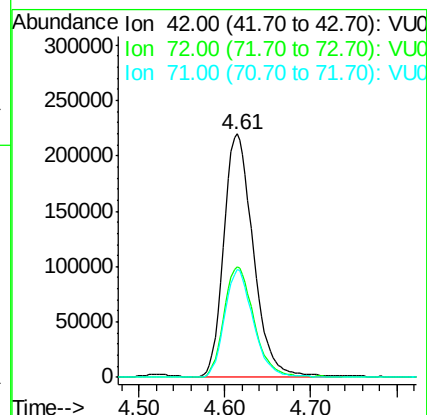
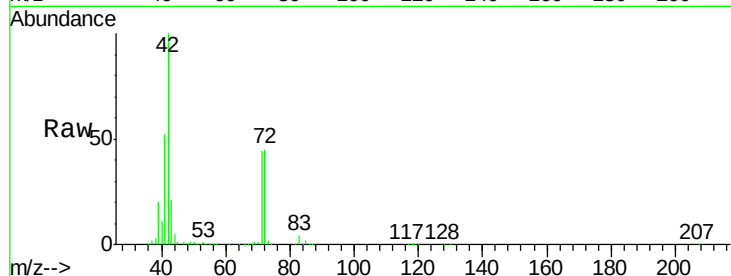
#29
Tetrahydrofuran
Concen: 267.472 ug/l
RT: 4.61 min Scan# 1096
Delta R.T. 0.00 min
Lab File: VU034342.D
Acq: 06 Sep 2019 19:40

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MS

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.4	36.6	54.8
71	43.5	34.3	51.5

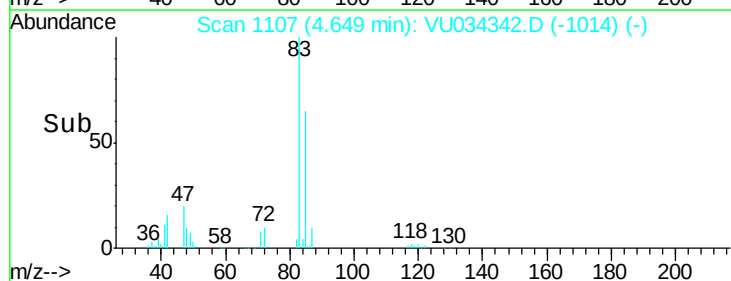
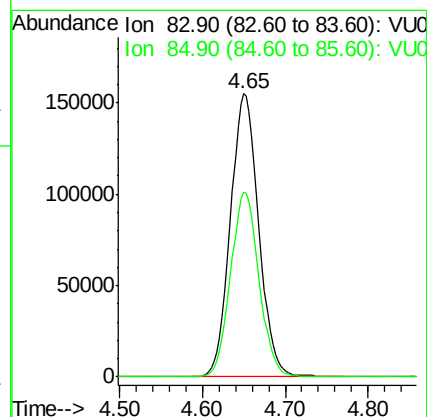
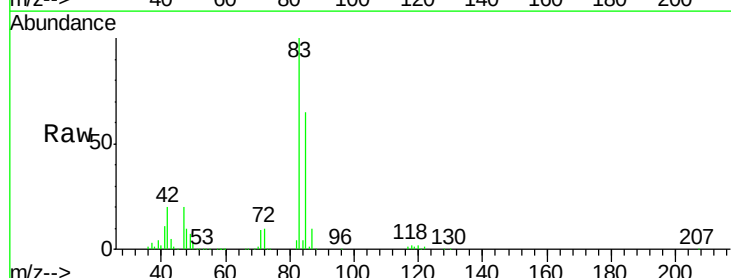
Manual Integrations
APPROVED

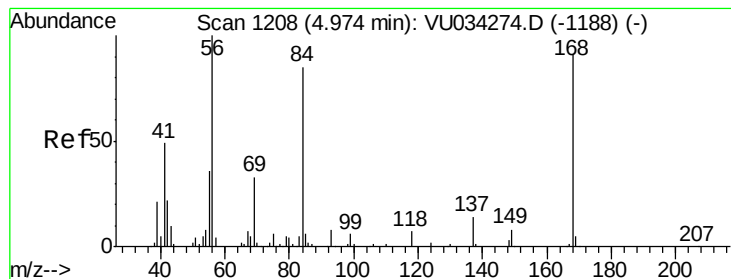
MMDadoda
9/10/2019 10:48:54 AM



#30
Chloroform
Concen: 48.564 ug/l
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU034342.D
Acq: 06 Sep 2019 19:40

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.2	51.5	77.3





#31

Cyclohexane

Concen: 45.920 ug/l

RT: 4.97 min Scan# 1208

Delta R.T. 0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

Instrument :

MSVOA_U

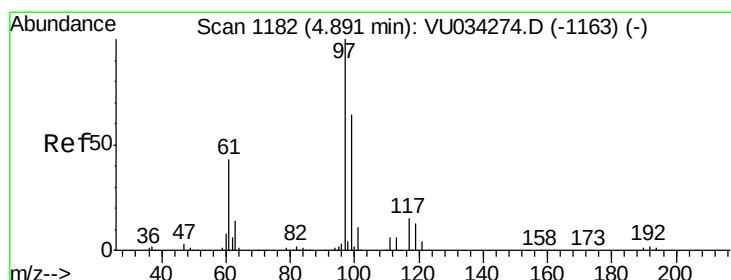
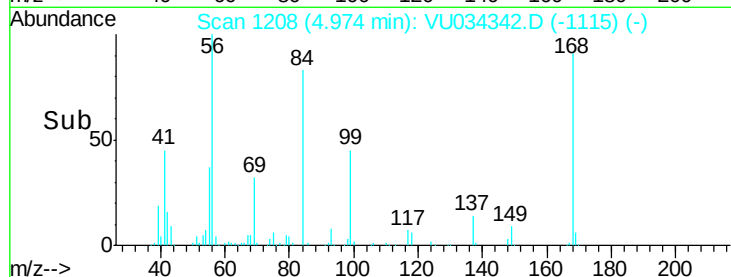
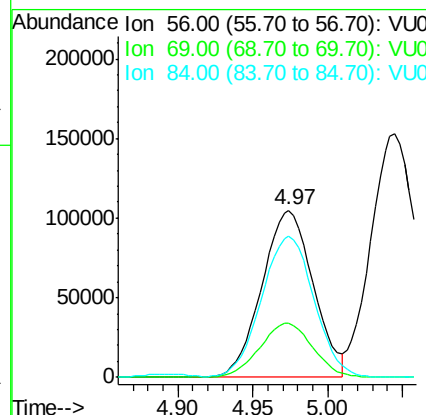
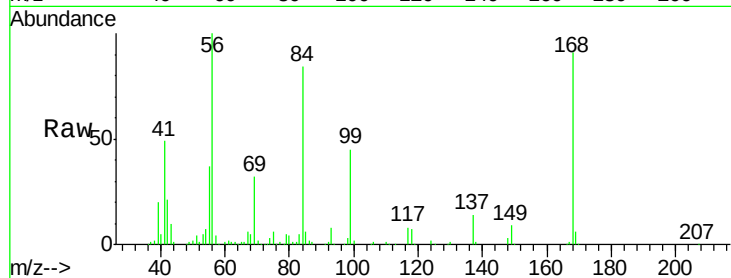
ClientSampleId :

GW-200-B4-47.0-52.0-090519MS

Tot Ion:	56	Resp:	250460
Ion Ratio		Lower	Upper
56	100		
69	32.1	26.7	40.1
84	83.4	68.2	102.4

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 47.972 ug/l

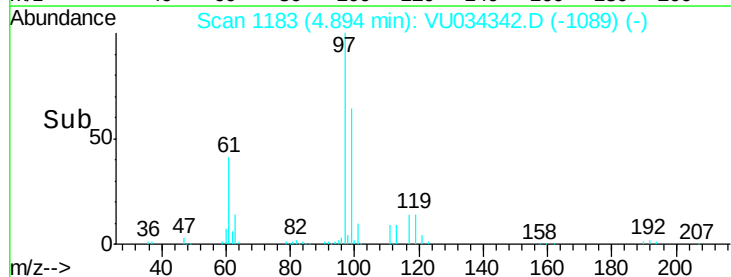
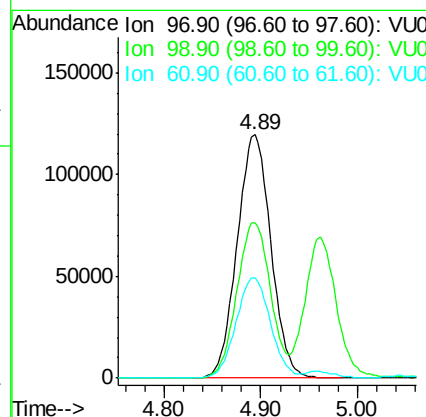
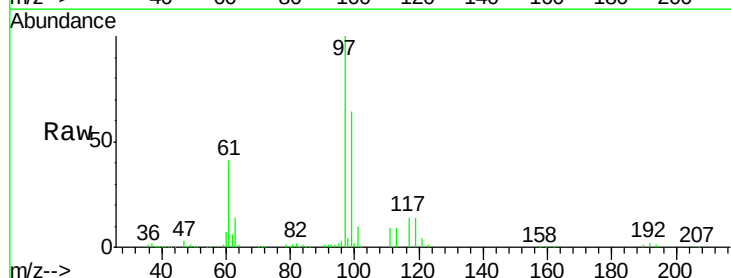
RT: 4.89 min Scan# 1183

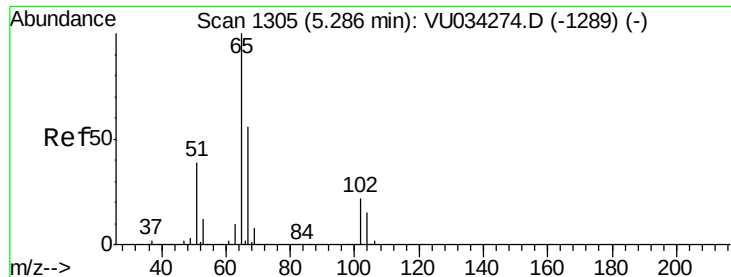
Delta R.T. 0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

Tgt Ion:	97	Resp:	290658
Ion Ratio		Lower	Upper
97	100		
99	64.1	50.9	76.3
61	42.2	34.7	52.1





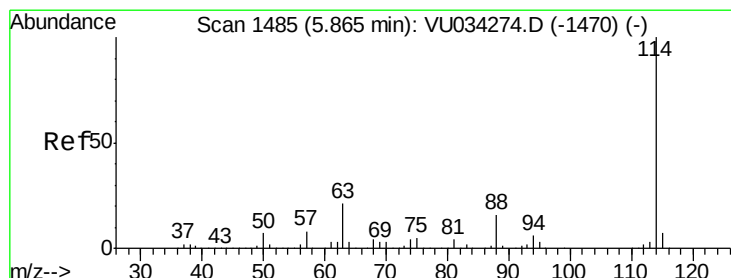
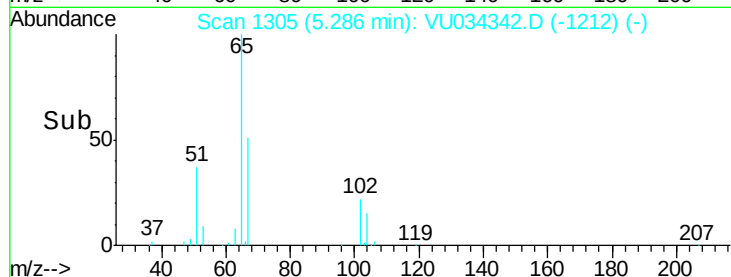
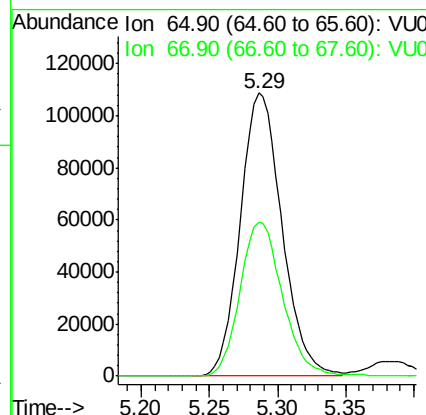
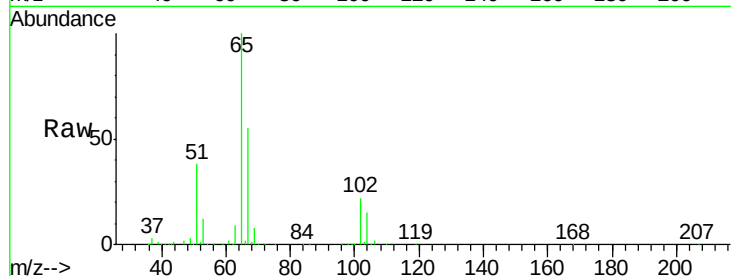
#33
 1,2-Dichloroethane-d4
 Concen: 49.634 ug/l
 RT: 5.29 min Scan# 1305
 Delta R.T. 0.00 min
 Lab File: VU034342.D
 Acq: 06 Sep 2019 19:40

Instrument :
 MSVOA_U
 ClientSampleId :
 GW-200-B4-47.0-52.0-090519MS

Tot Ion	Ratio	Resp	Lower	Upper
65	100	231119		
67	55.3	0.0	112.4	

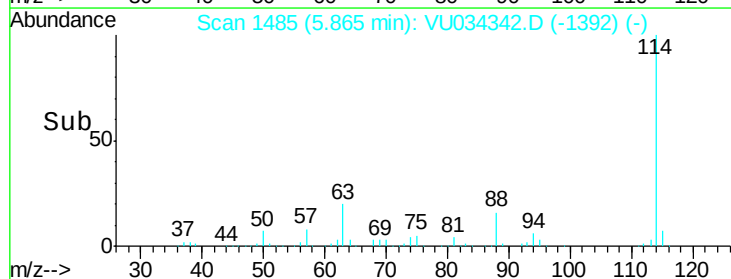
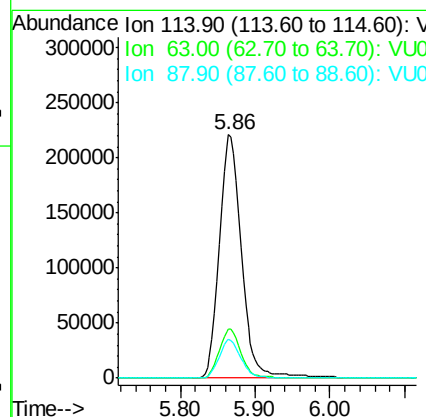
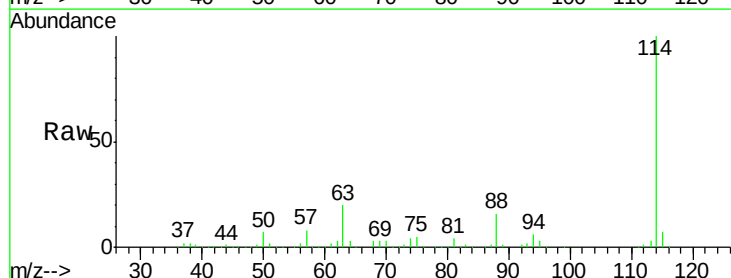
Manual Integrations
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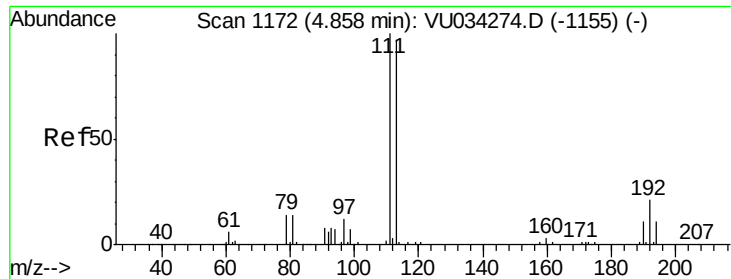
MMDadoda
 9/10/2019 10:48:54 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VU034342.D
 Acq: 06 Sep 2019 19:40

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	457211		
63	20.0	0.0	42.4	
88	16.0	0.0	32.4	





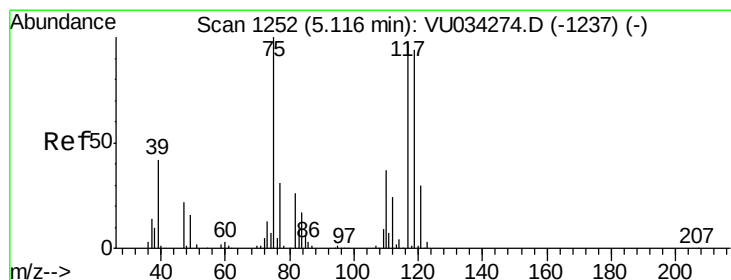
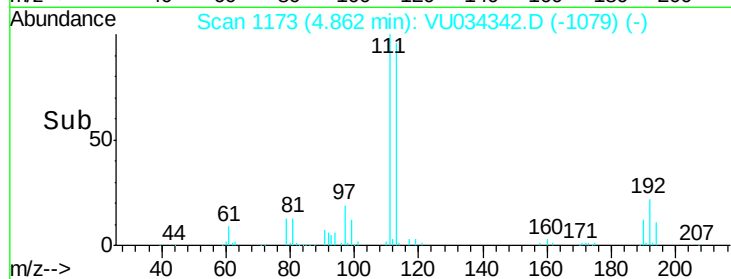
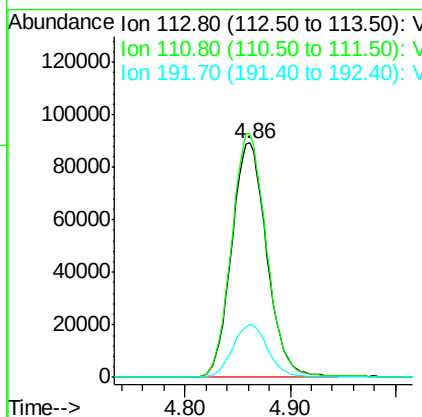
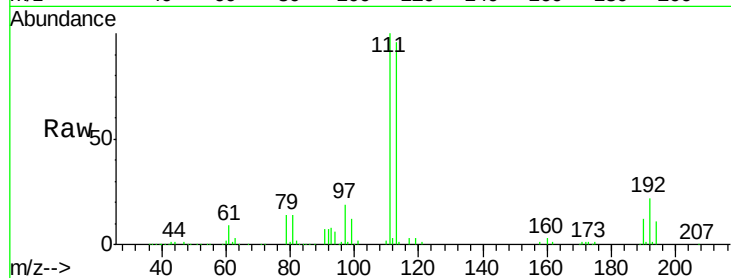
#35
 Dibromofluoromethane
 Concen: 48.563 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034342.D
 Acq: 06 Sep 2019 19:40

Instrument :
 MSVOA_U
 ClientSampleId :
 GW-200-B4-47.0-52.0-090519MS

Tot Ion	Ratio	Resp	Lower	Upper
113	100	206605		
111	103.2	81.5	122.3	
192	22.6	17.8	26.8	

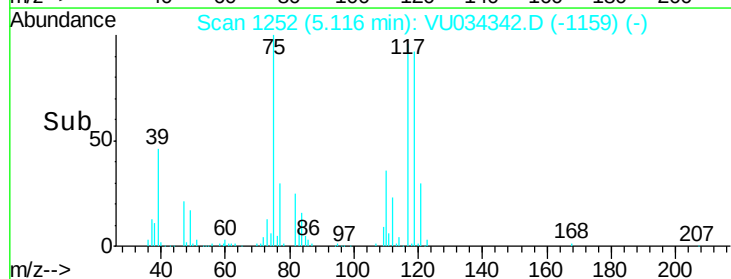
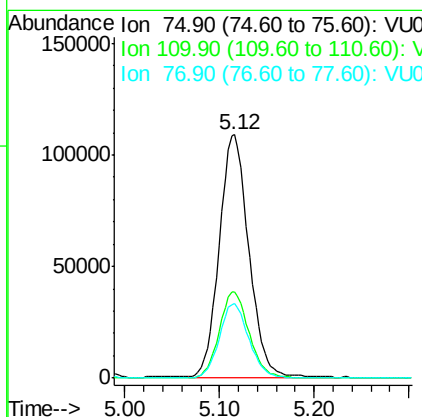
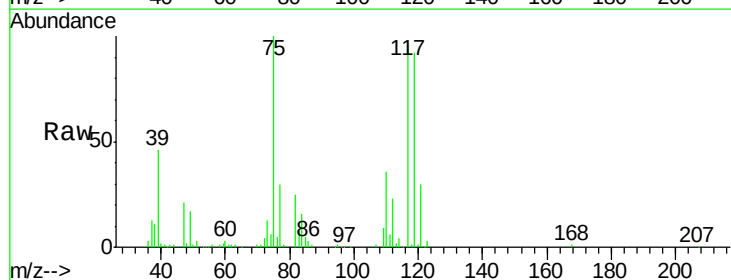
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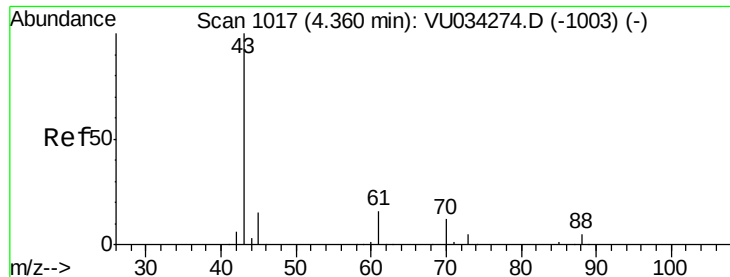
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#36
 1,1-Dichloropropene
 Concen: 47.381 ug/l
 RT: 5.12 min Scan# 1252
 Delta R.T. 0.00 min
 Lab File: VU034342.D
 Acq: 06 Sep 2019 19:40

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	234939		
110	36.1	18.3	54.9	
77	30.7	24.9	37.3	





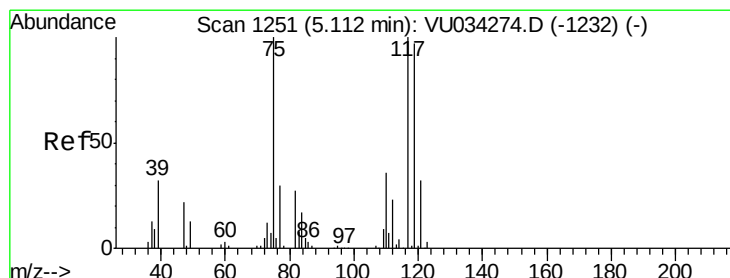
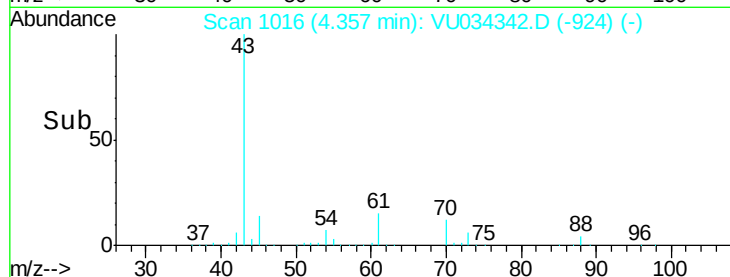
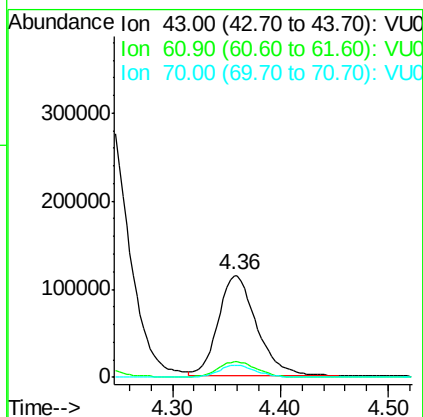
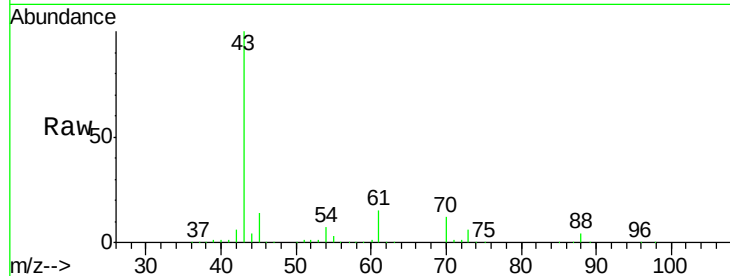
#37
Ethyl Acetate
Concen: 48.009 ug/l
RT: 4.36 min Scan# 1016
Delta R.T. -0.00 min
Lab File: VU034342.D
Acq: 06 Sep 2019 19:40

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MS

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.6	12.3	18.5
70	11.8	9.1	13.7

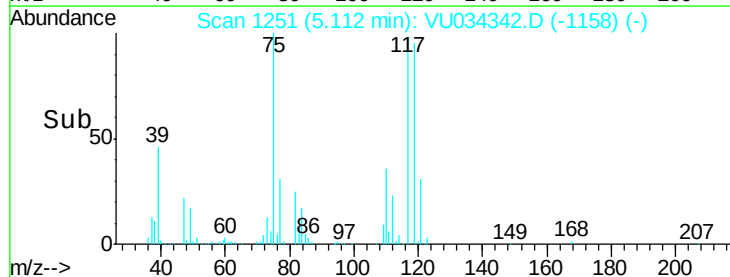
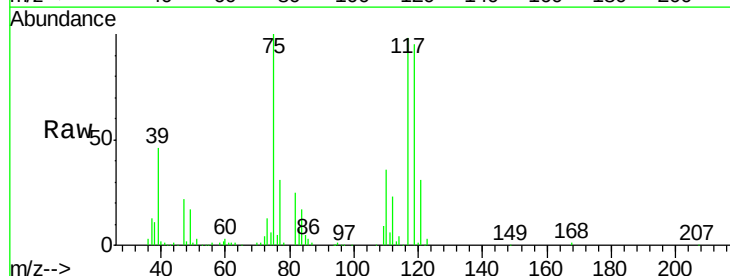
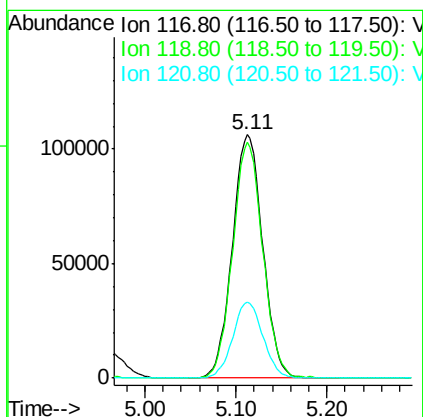
Manual Integrations
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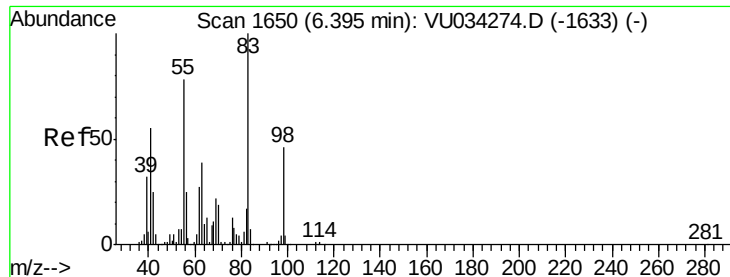
MMDadoda
9/10/2019 10:48:54 AM



#38
Carbon Tetrachloride
Concen: 46.425 ug/l
RT: 5.11 min Scan# 1251
Delta R.T. 0.00 min
Lab File: VU034342.D
Acq: 06 Sep 2019 19:40

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.0	77.8	116.6
121	31.4	25.2	37.8





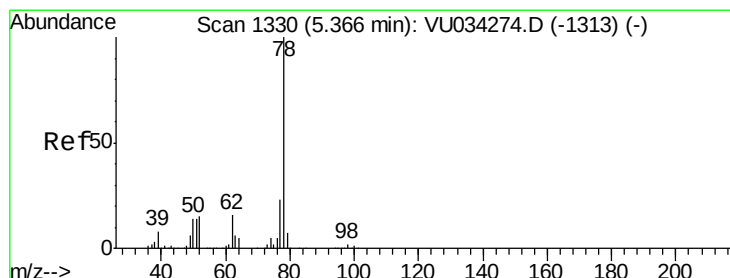
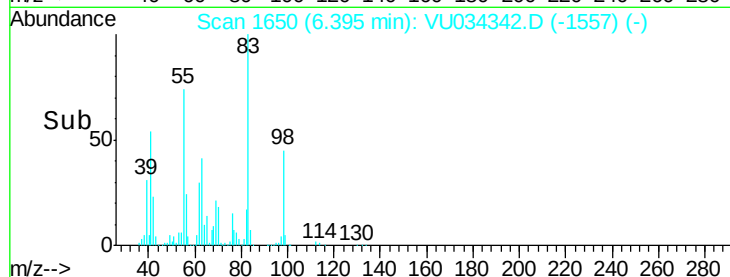
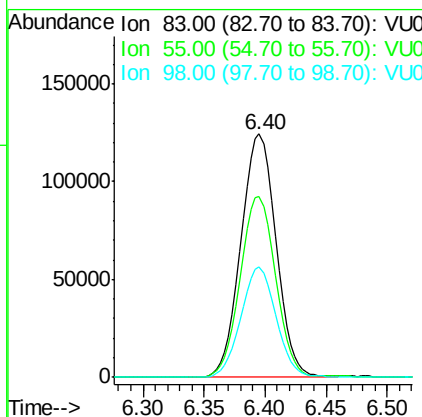
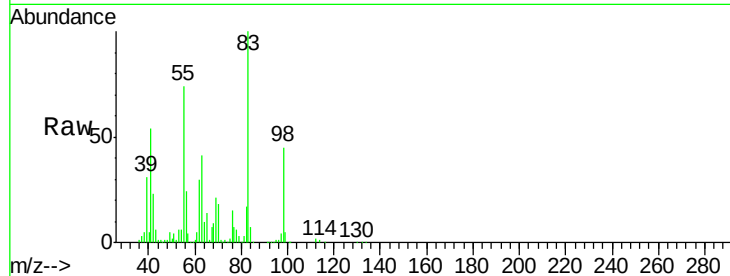
#39
Methylvlcyclohexane
Concen: 46.817 ug/l
RT: 6.40 min Scan# 1650
Delta R.T. 0.00 min
Lab File: VU034342.D
Acq: 06 Sep 2019 19:40

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MS

Tot Ion	Ratio	Lower	Upper
83	100		
55	74.1	62.1	93.1
98	45.2	37.0	55.6

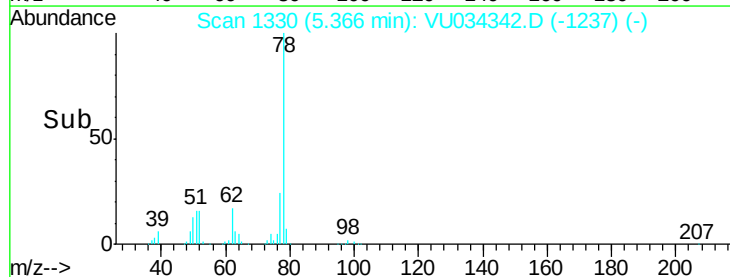
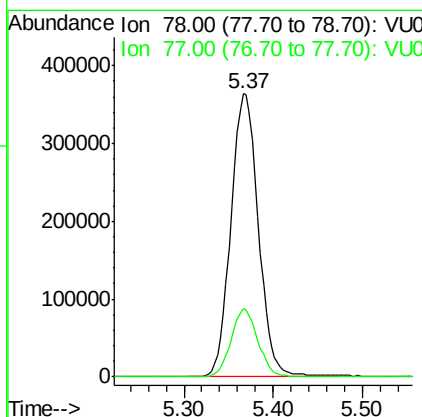
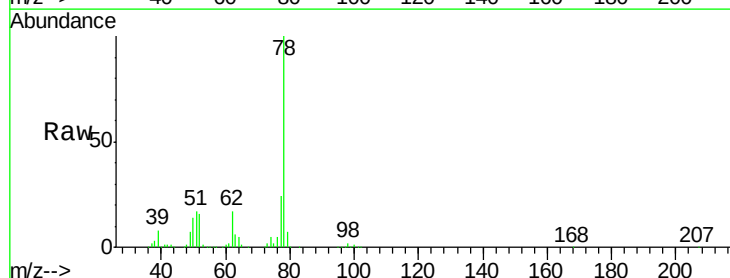
Manual Integrations
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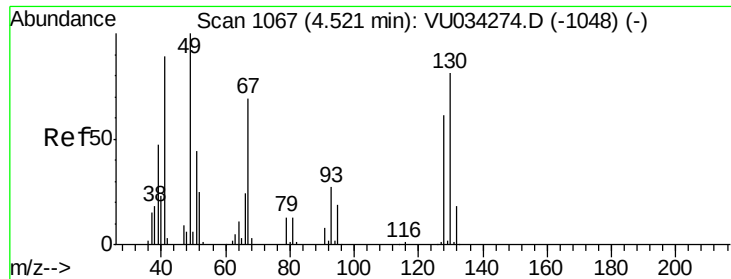
MMDadoda
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#40
Benzene
Concen: 48.753 ug/l
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU034342.D
Acq: 06 Sep 2019 19:40

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.7	28.1





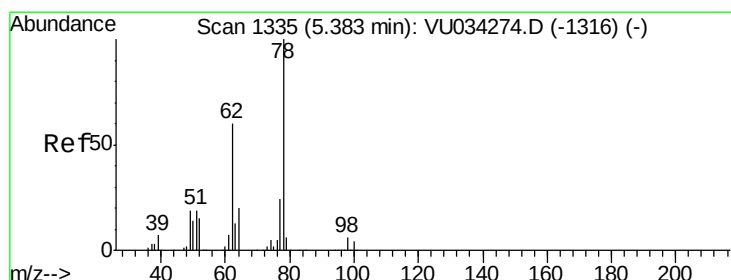
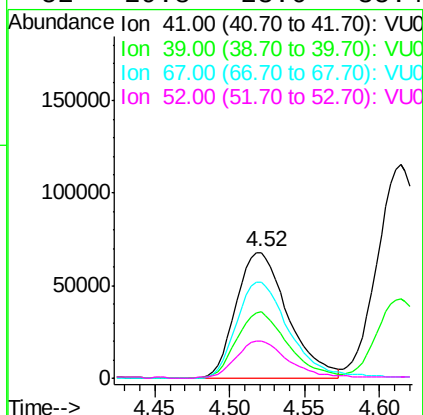
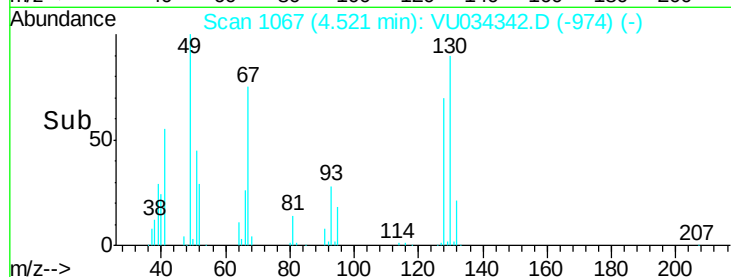
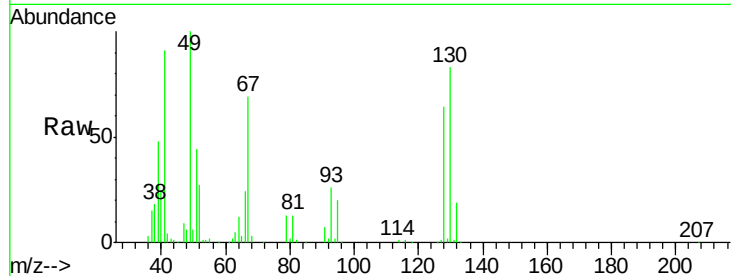
#41
Methacrylonitrile
Concen: 52.097 ug/l
RT: 4.52 min Scan# 1067
Delta R.T. 0.00 min
Lab File: VU034342.D
Acq: 06 Sep 2019 19:40

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MS

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	52.0	41.0	61.4	
67	79.9	62.4	93.6	
52	29.8	23.6	35.4	

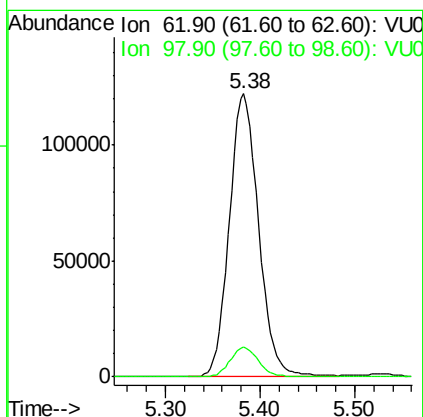
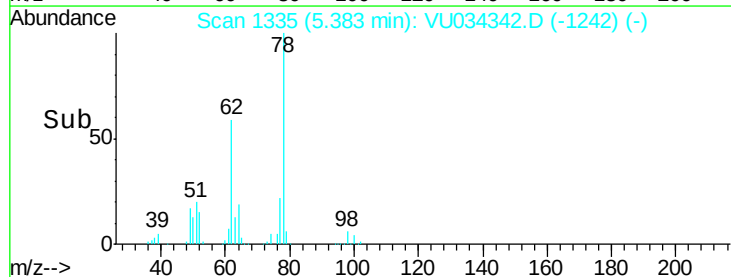
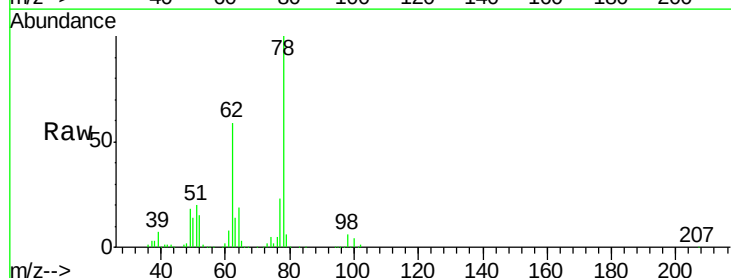
Manual Integrations
APPROVED

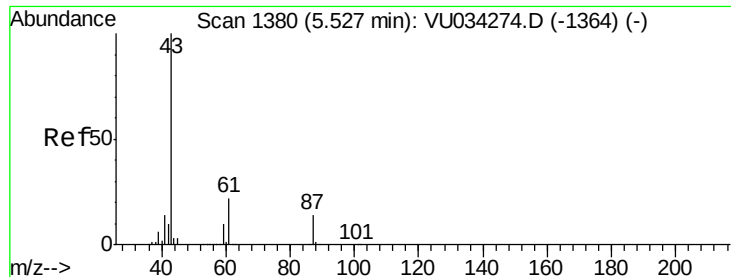
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#42
1,2-Dichloroethane
Concen: 47.420 ug/l
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU034342.D
Acq: 06 Sep 2019 19:40

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	10.3	0.0	20.0	





#43

Isopropyl Acetate

Concen: 50.124 ug/l

RT: 5.53 min Scan# 1380

Delta R.T. 0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

Instrument :

MSVOA_U

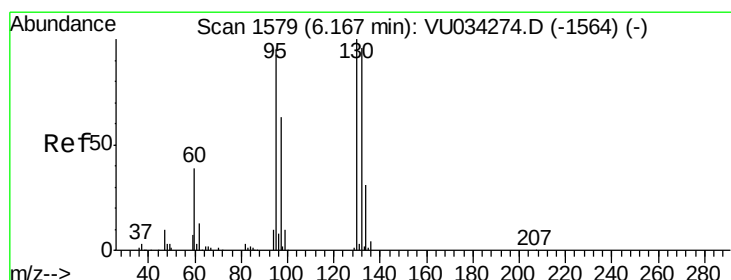
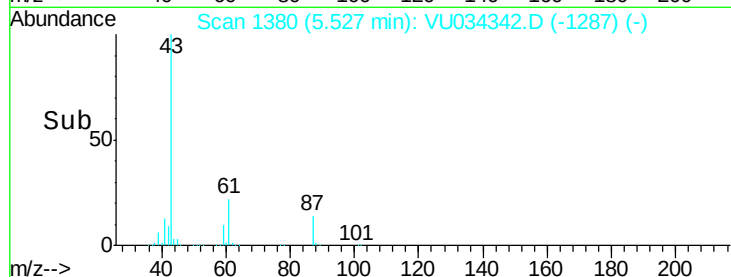
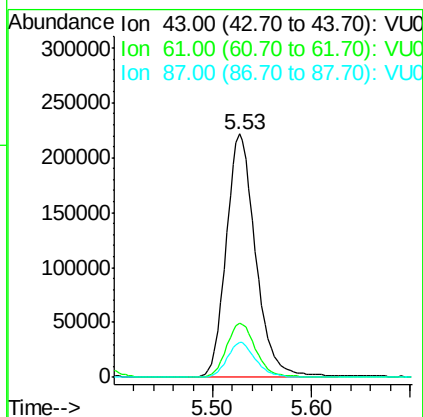
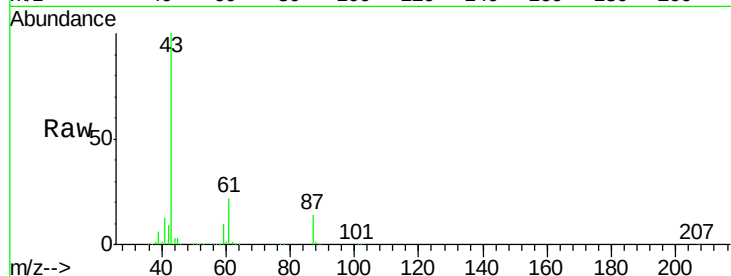
ClientSampleId :

GW-200-B4-47.0-52.0-090519MS

Tot Ion:	43	Resp:	458408
Ion	Ratio	Lower	Upper
43	100		
61	22.4	17.1	25.7
87	14.1	11.1	16.7

Manual Integrations
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#44

Trichloroethene

Concen: 229.846 ug/l

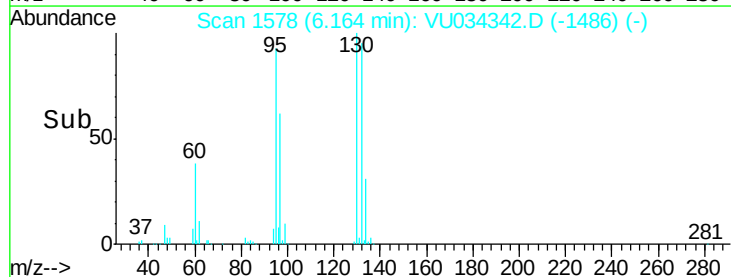
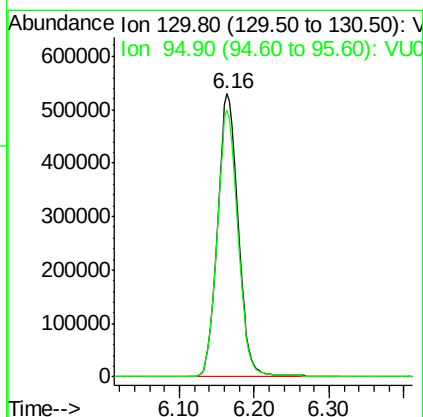
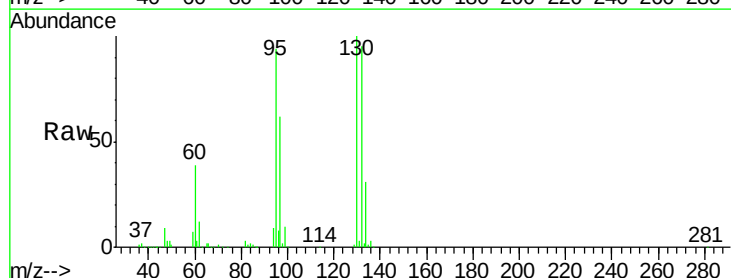
RT: 6.16 min Scan# 1578

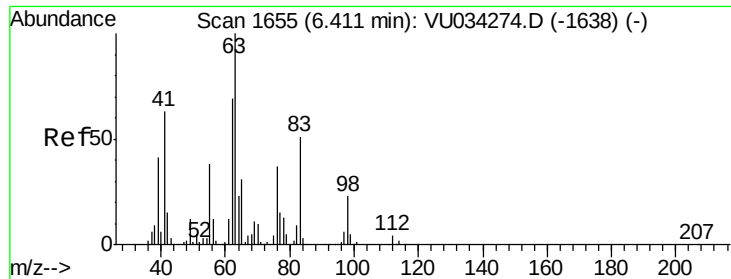
Delta R.T. -0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

Tgt Ion:	130	Resp:	1017642
Ion	Ratio	Lower	Upper
130	100		
95	94.4	0.0	189.2





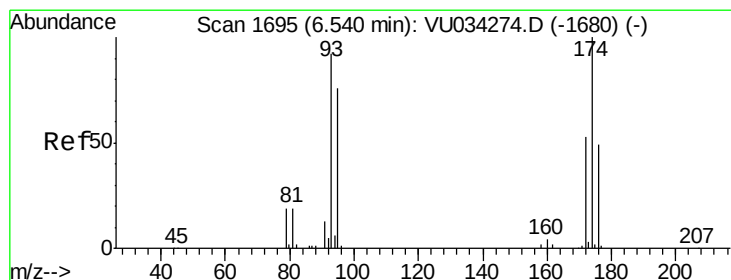
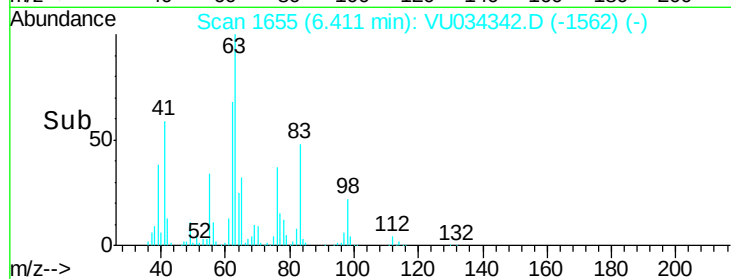
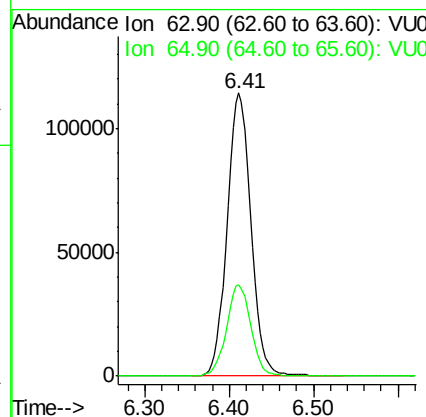
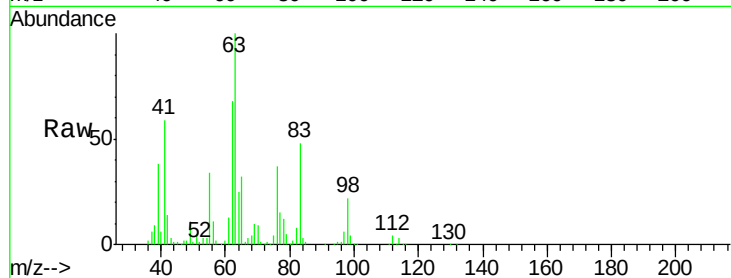
#45
 1,2-Dichloropropane
 Concen: 48.080 ug/l
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU034342.D
 Acq: 06 Sep 2019 19:40

Instrument :
 MSVOA_U
 ClientSampled :
 GW-200-B4-47.0-52.0-090519MS

Tot Ion	Ratio	Lower	Upper
63	100		
65	32.4	24.6	37.0

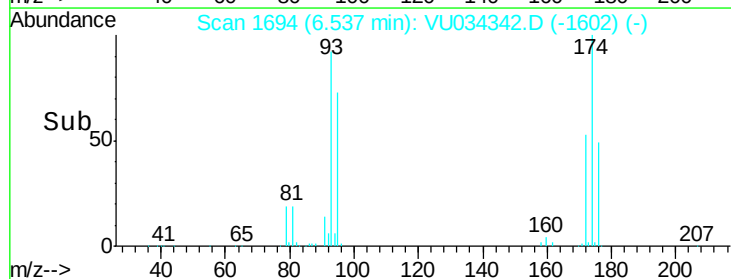
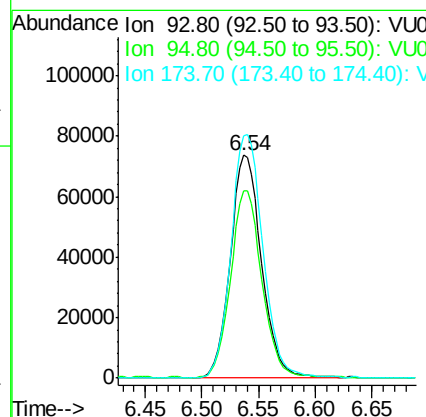
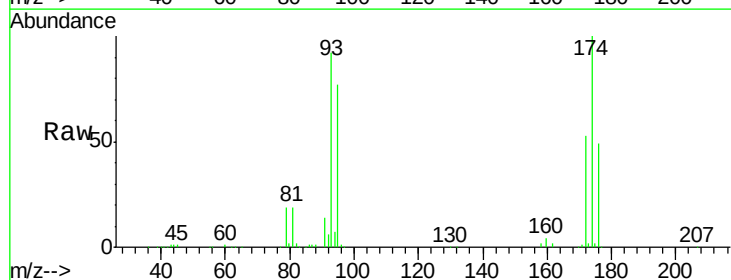
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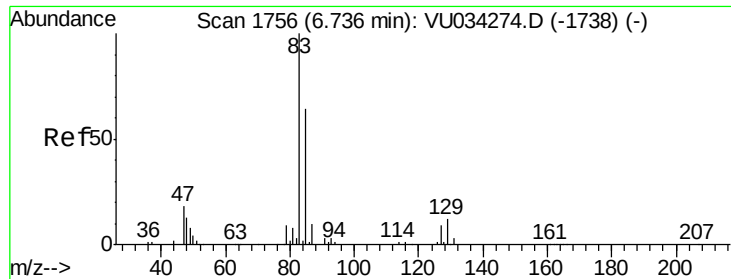
MMDadoda
 9/10/2019 10:48:54 AM



#46
 Dibromomethane
 Concen: 48.321 ug/l
 RT: 6.54 min Scan# 1694
 Delta R.T. -0.00 min
 Lab File: VU034342.D
 Acq: 06 Sep 2019 19:40

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.0	66.5	99.7
174	111.9	87.8	131.6





#47

Bromodichloromethane

Concen: 47.508 ug/l

RT: 6.74 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

Instrument :

MSVOA_U

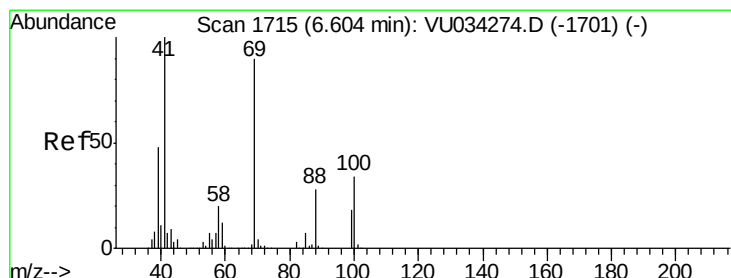
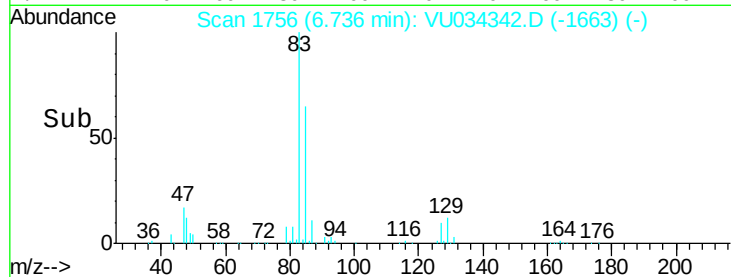
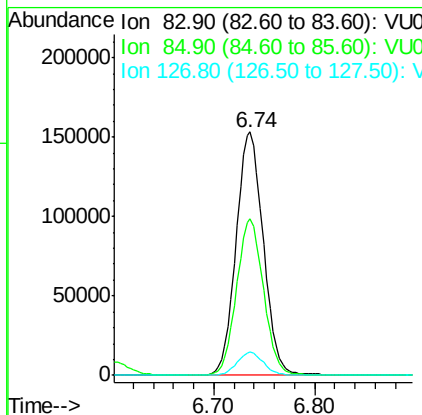
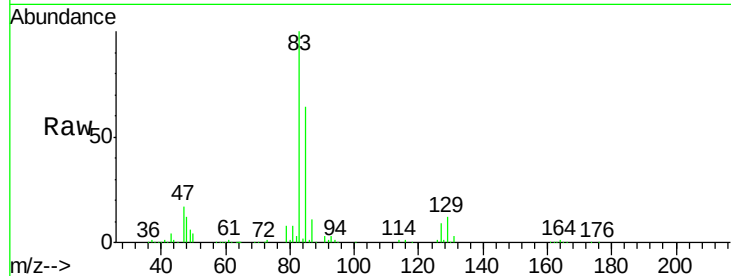
ClientSampleId :

GW-200-B4-47.0-52.0-090519MS

Tot Ion:	83	Resp:	287122
Ion Ratio	Lower	Upper	
83	100		
85	64.1	51.1	76.7
127	9.4	7.2	10.8

Manual Integrations
APPROVED

MMDadoda
9/10/2019 10:48:54 AM



#48

Methyl methacrylate

Concen: 50.936 ug/l

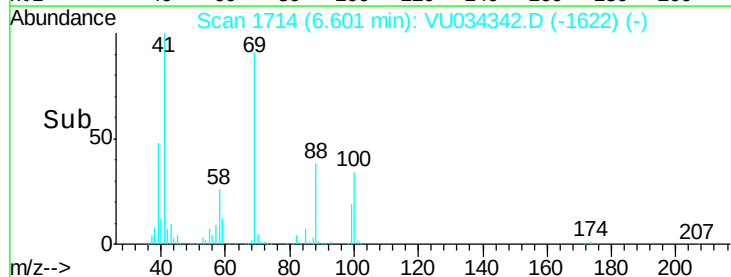
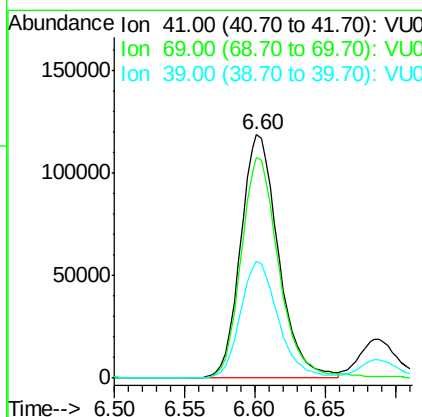
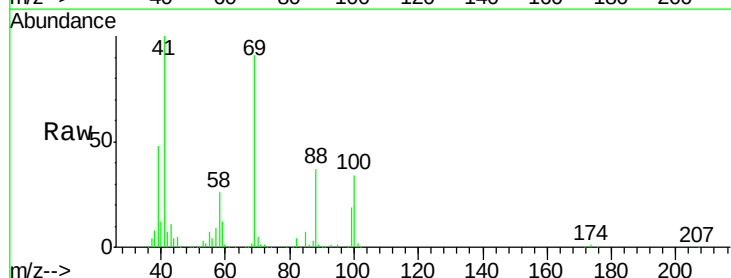
RT: 6.60 min Scan# 1714

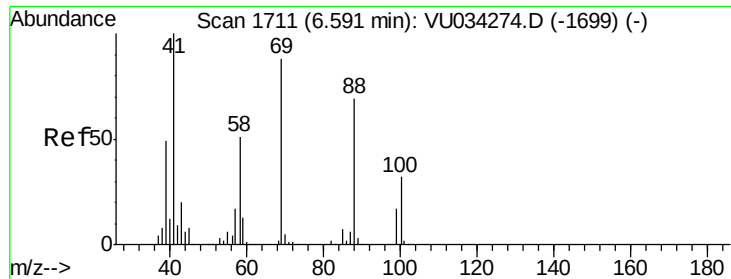
Delta R.T. -0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

Tgt Ion:	41	Resp:	221253
Ion Ratio	Lower	Upper	
41	100		
69	91.8	72.8	109.2
39	47.8	38.6	58.0





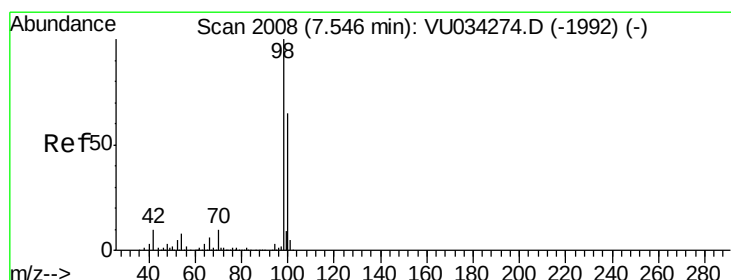
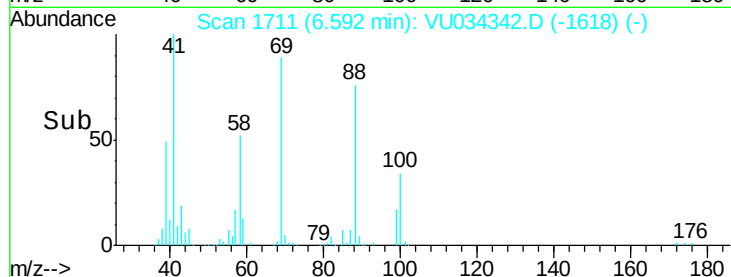
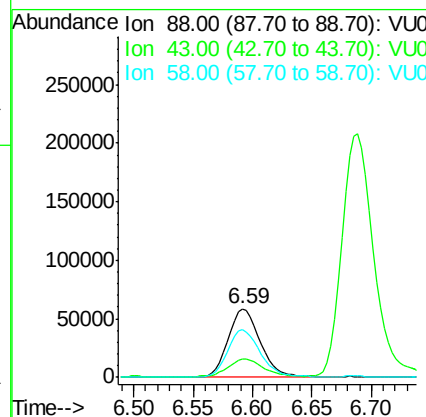
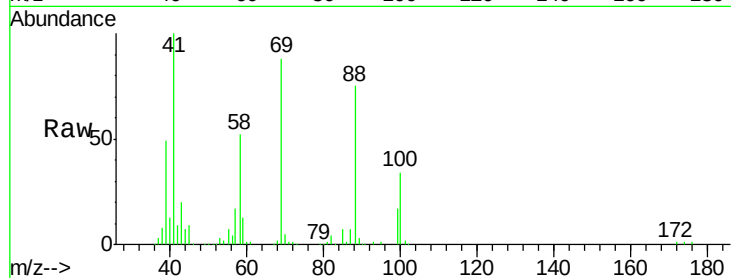
#49
1,4-Dioxane
Concen: 1144.817 ug/l
RT: 6.59 min Scan# 1711
Delta R.T. 0.00 min
Lab File: VU034342.D
Acq: 06 Sep 2019 19:40

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MS

Tot Ion	Ratio	Resp	Lower	Upper
88	100			
43	27.3	23.8	35.6	
58	72.2	58.4	87.6	

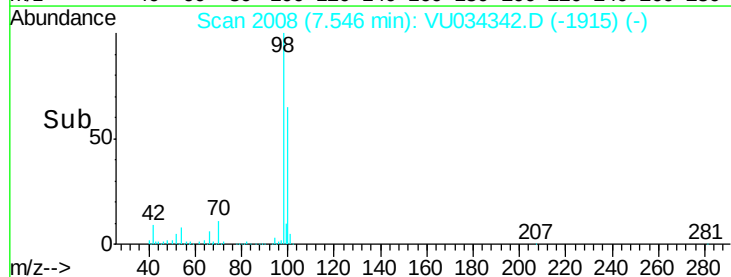
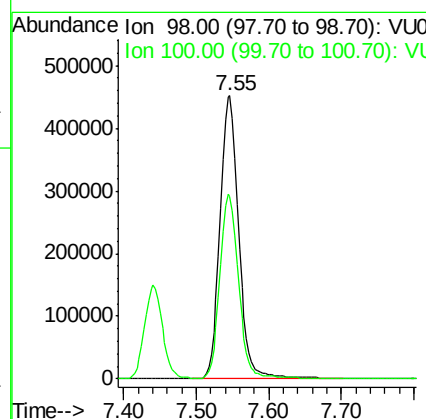
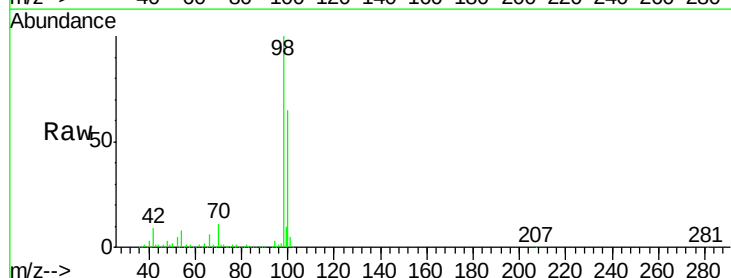
Manual Integrations
APPROVED

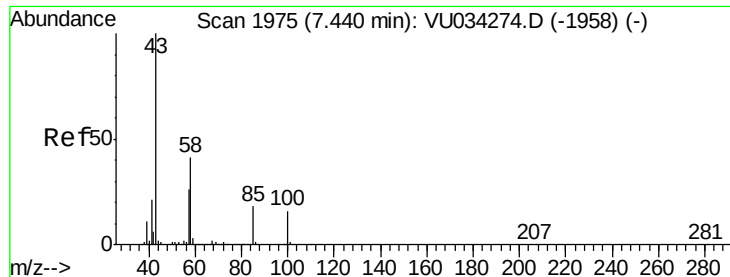
MMDadoda
9/10/2019 10:48:54 AM



#50
Toluene-d8
Concen: 50.859 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034342.D
Acq: 06 Sep 2019 19:40

Tgt Ion	Ratio	Resp	Lower	Upper
98	100			
100	65.3	51.7	77.5	





#51

4-Methyl-2-Pentanone

Concen: 252.784 ug/l

RT: 7.44 min Scan# 1975

Delta R.T. 0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MS

Tot Ion: 43 Resp: 1600252

Ion Ratio Lower Upper

43 100

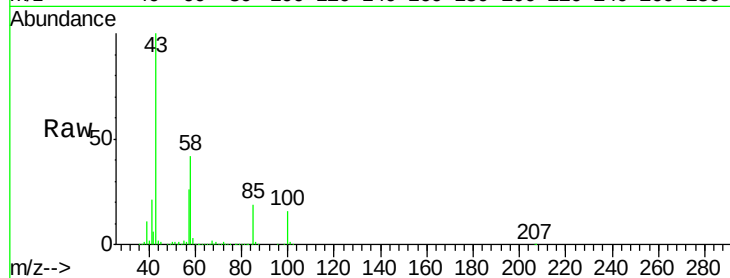
58 42.1 33.0 49.4

Manual Integrations

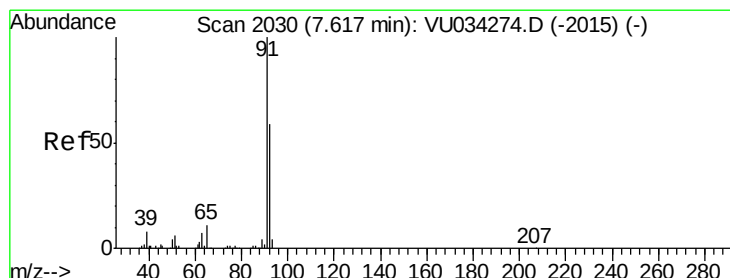
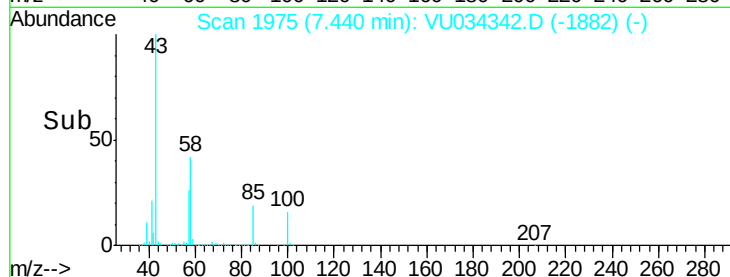
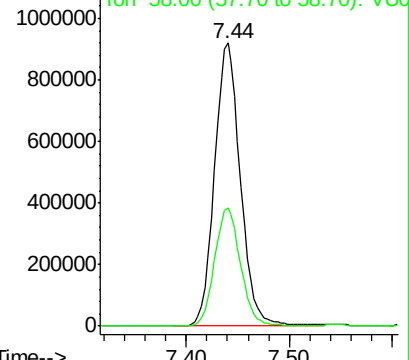
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9/10/2019 10:48:54 AM



Abundance Ion 43.00 (42.70 to 43.70): VU034342.D (-1882) (-)



#52

Toluene

Concen: 49.837 ug/l

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU034342.D

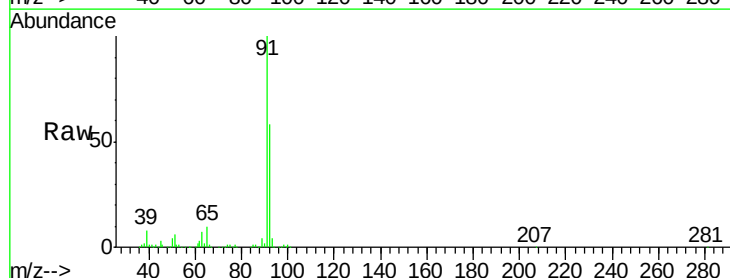
Acq: 06 Sep 2019 19:40

Tgt Ion: 92 Resp: 500203

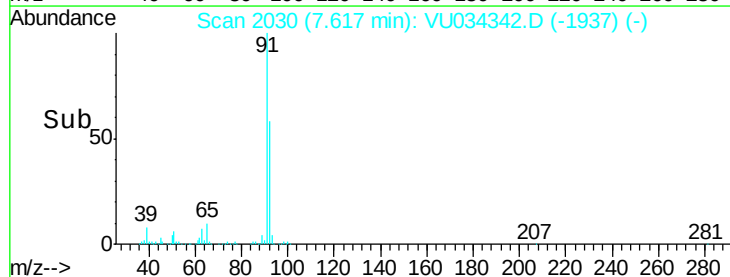
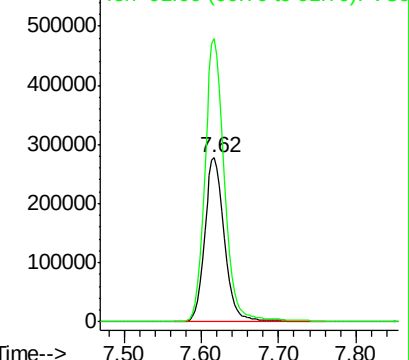
Ion Ratio Lower Upper

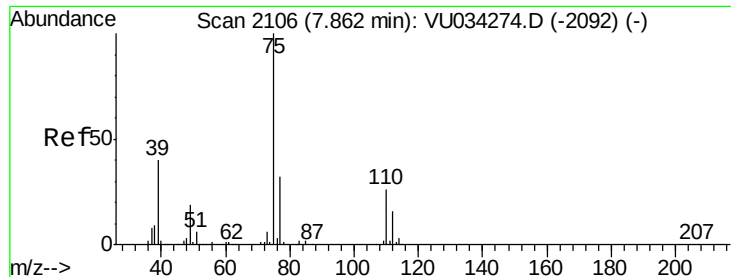
92 100

91 171.3 136.6 205.0



Abundance Ion 92.00 (91.70 to 92.70): VU034342.D (-1937) (-)





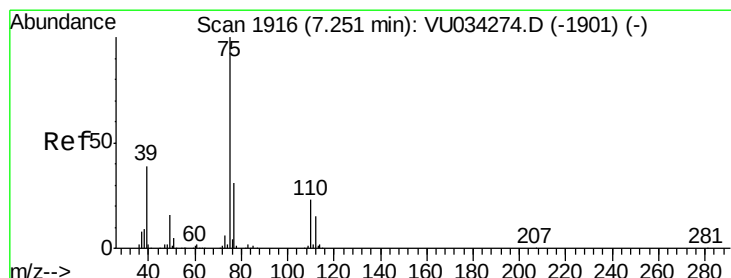
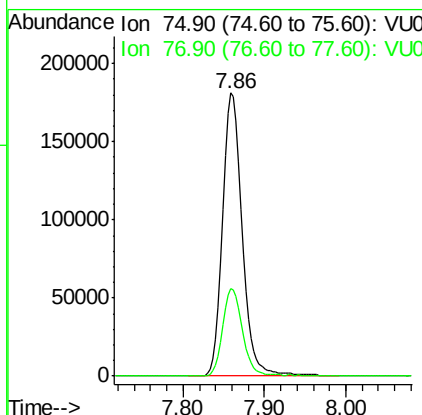
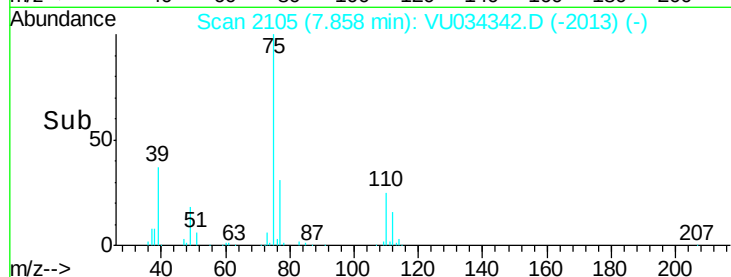
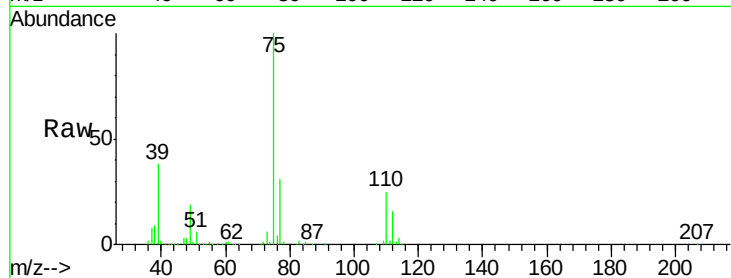
#53
 t-1,3-Dichloropropene
 Concen: 49.837 ug/l
 RT: 7.86 min Scan# 2105
 Delta R.T. -0.00 min
 Lab File: VU034342.D
 Acq: 06 Sep 2019 19:40

Instrument :
 MSVOA_U
 ClientSampleId :
 GW-200-B4-47.0-52.0-090519MS

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.8	25.7	38.5

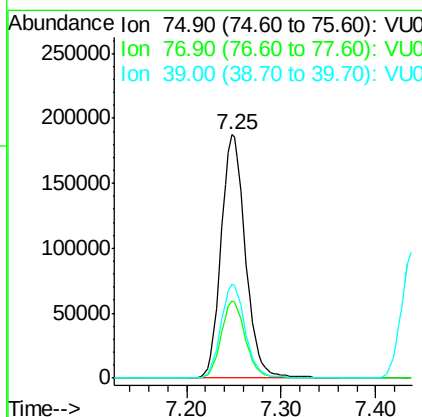
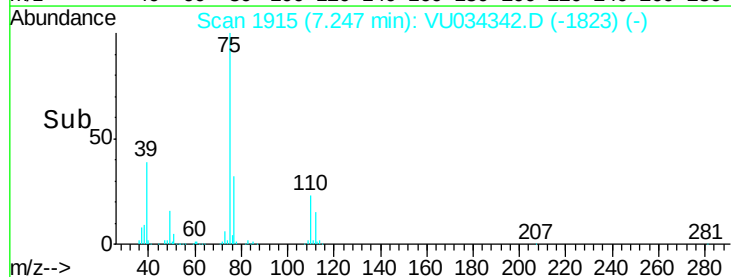
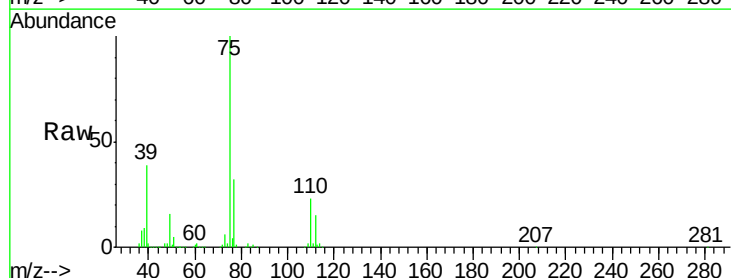
Manual Integrations
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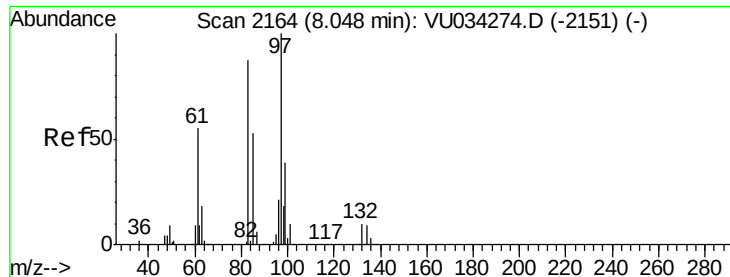
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#54
 cis-1,3-Dichloropropene
 Concen: 48.731 ug/l
 RT: 7.25 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VU034342.D
 Acq: 06 Sep 2019 19:40

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.1	37.7
39	38.6	31.2	46.8





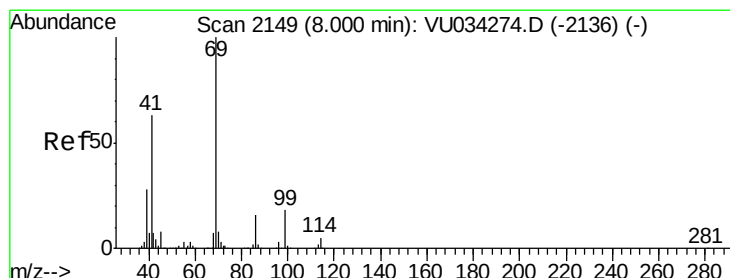
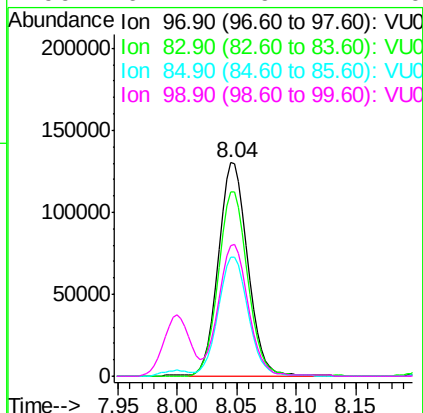
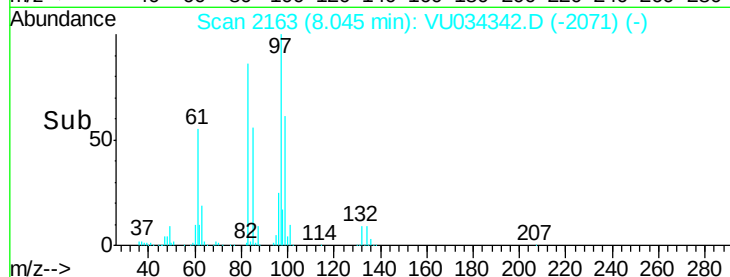
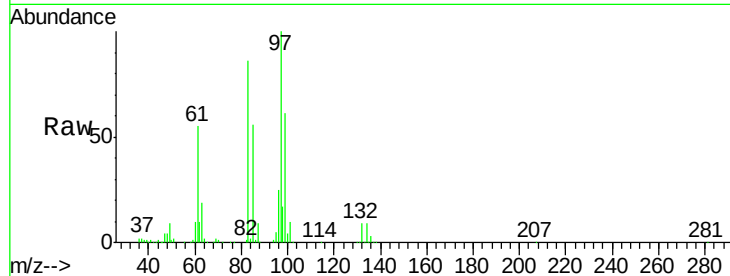
#55
 1,1,2-Trichloroethane
 Concen: 48.639 ug/l
 RT: 8.04 min Scan# 2163
 Delta R.T. -0.00 min
 Lab File: VU034342.D
 Acq: 06 Sep 2019 19:40

Instrument :
 MSVOA_U
 ClientSampleId :
 GW-200-B4-47.0-52.0-090519MS

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		221669		
83	86.3	69.0	103.6		
85	55.7	44.2	66.2		
99	61.1	49.4	74.0		

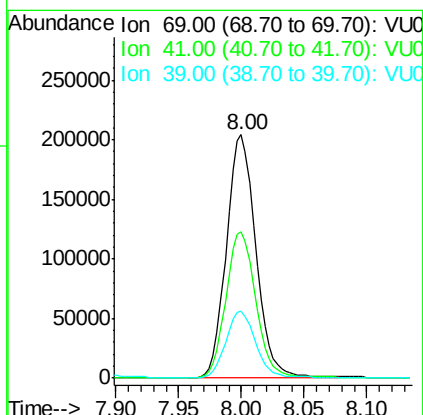
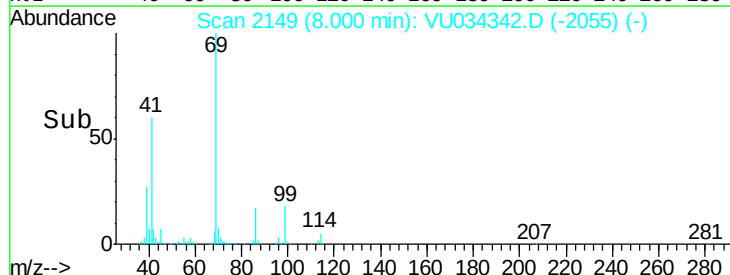
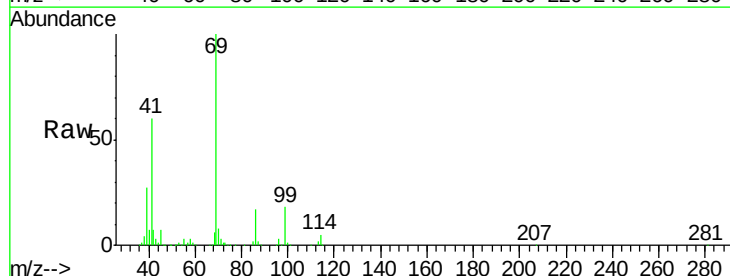
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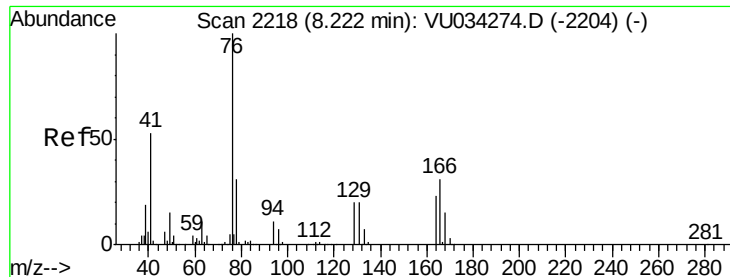
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 9/10/2019 10:48:54 AM



#56
 Ethyl methacrylate
 Concen: 48.408 ug/l
 RT: 8.00 min Scan# 2149
 Delta R.T. 0.00 min
 Lab File: VU034342.D
 Acq: 06 Sep 2019 19:40

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		334459		
41	60.5	49.5	74.3		
39	27.2	22.5	33.7		





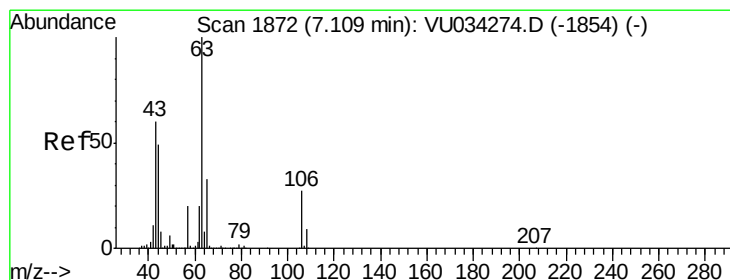
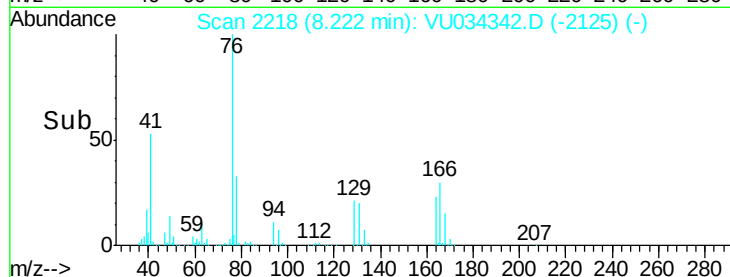
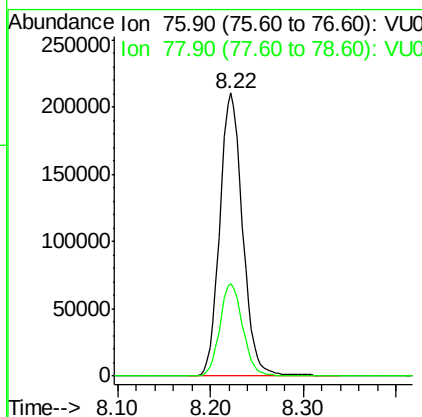
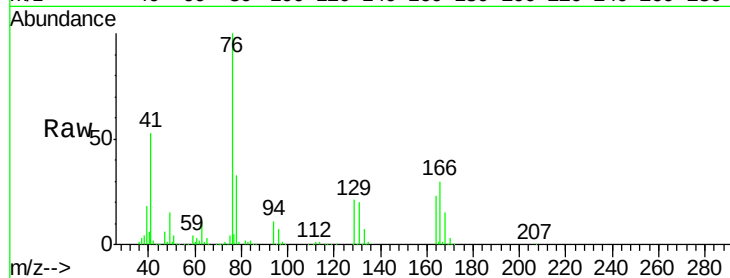
#57
 1,3-Dichloropropane
 Concen: 48.618 ug/l
 RT: 8.22 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VU034342.D
 Acq: 06 Sep 2019 19:40

Instrument :
 MSVOA_U
 ClientSampleId :
 GW-200-B4-47.0-52.0-090519MS

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.7	25.4	38.2

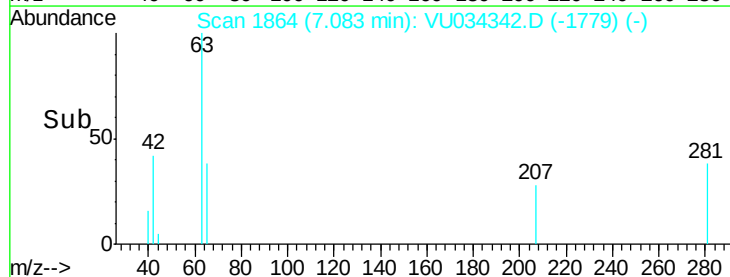
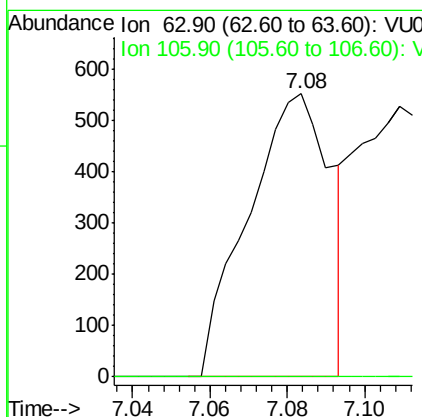
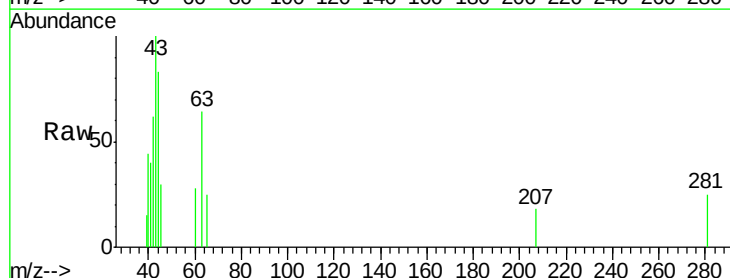
Manual Integrations
 APPROVED

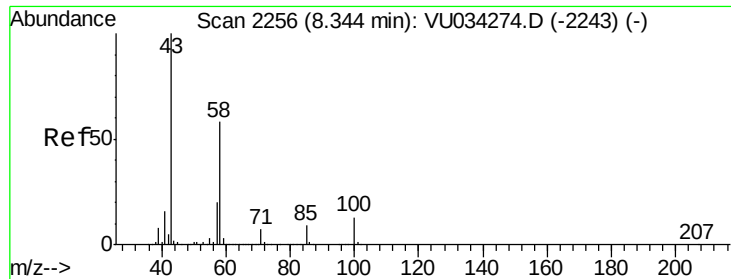
MMDadoda
 9/10/2019 10:48:54 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 16.941 ug/l
 RT: 7.08 min Scan# 1864
 Delta R.T. -0.03 min
 Lab File: VU034342.D
 Acq: 06 Sep 2019 19:40

Tgt Ion	Ratio	Lower	Upper
63	100		
106	0.0	21.6	32.4





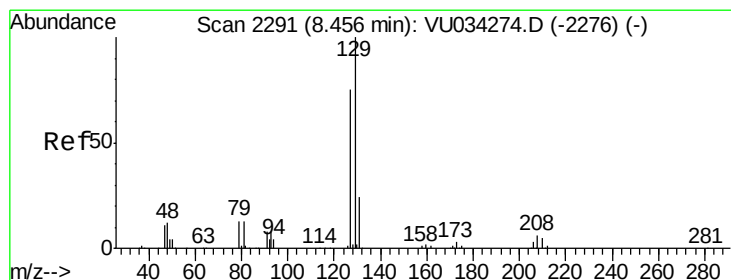
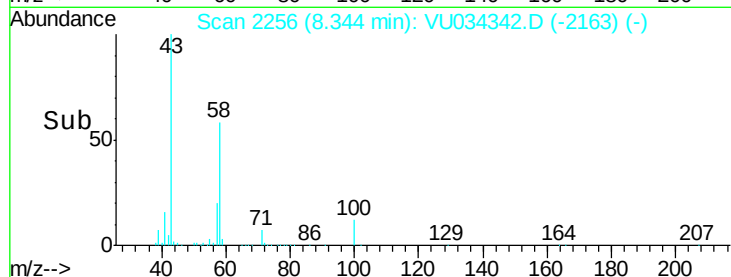
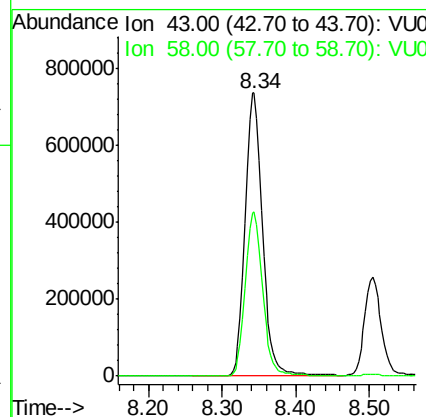
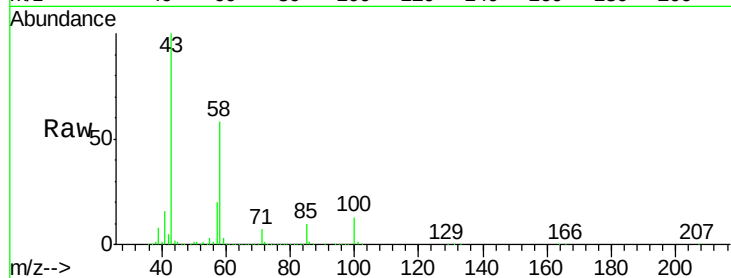
#59
2-Hexanone
Concen: 258.157 ug/l
RT: 8.34 min Scan# 2256
Delta R.T. 0.00 min
Lab File: VU034342.D
Acq: 06 Sep 2019 19:40

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MS

Tot Ion: 43 Resp: 1220884
Ion Ratio Lower Upper
43 100
58 58.5 28.8 86.5

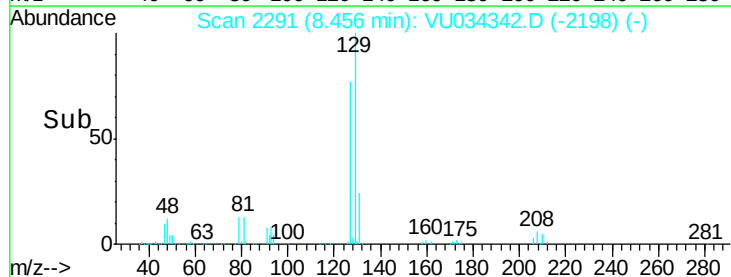
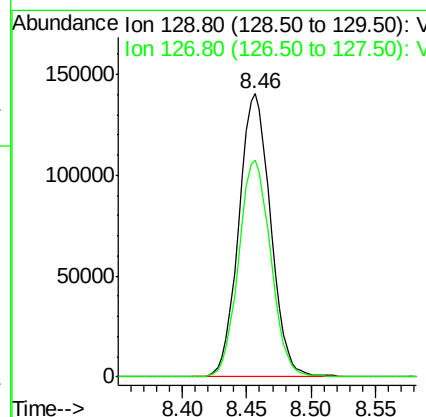
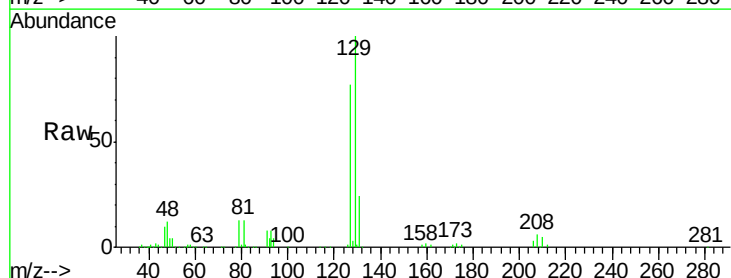
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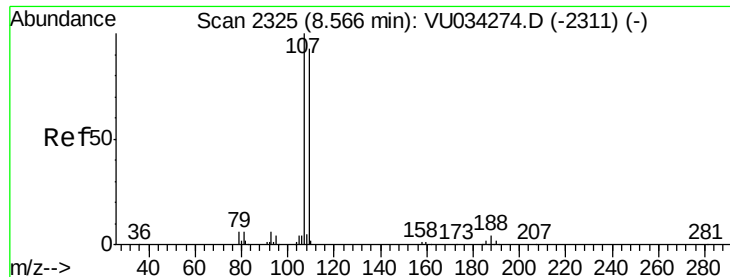
MMDadoda
9/10/2019 10:48:54 AM



#60
Dibromochloromethane
Concen: 49.332 ug/l
RT: 8.46 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU034342.D
Acq: 06 Sep 2019 19:40

Tgt Ion: 129 Resp: 241151
Ion Ratio Lower Upper
129 100
127 77.4 37.9 113.7





#61

1,2-Dibromoethane

Concen: 49.520 ug/l

RT: 8.57 min Scan# 2325

Delta R.T. 0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MS

Tot Ion: 107 Resp: 220895

Ion Ratio Lower Upper

107 100

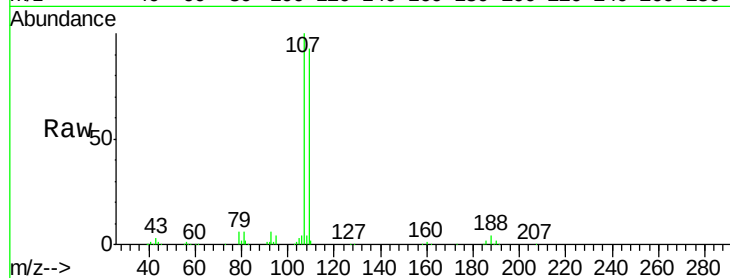
109 94.9 75.0 112.6

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

8.57

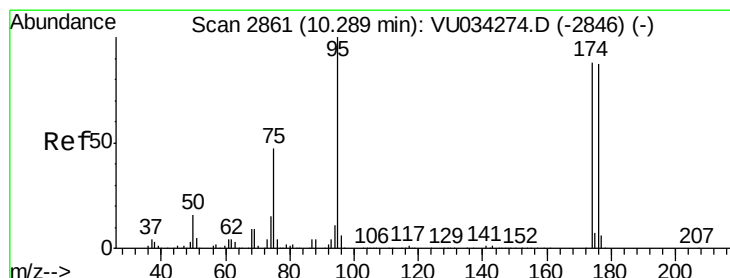
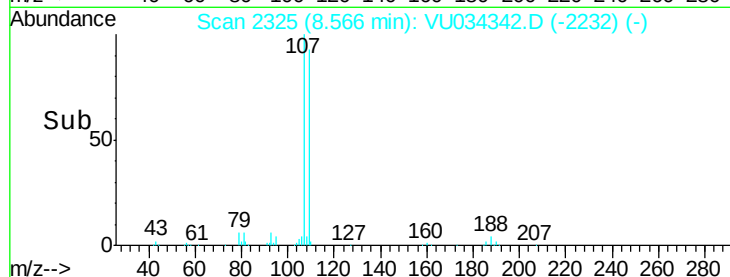
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 49.992 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

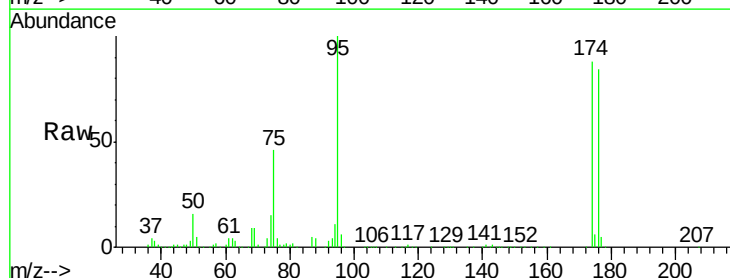
Tgt Ion: 95 Resp: 308509

Ion Ratio Lower Upper

95 100

174 88.5 0.0 175.2

176 85.1 0.0 168.0



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

10.29

250000

200000

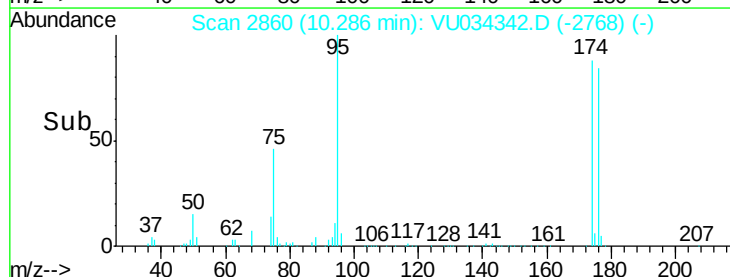
150000

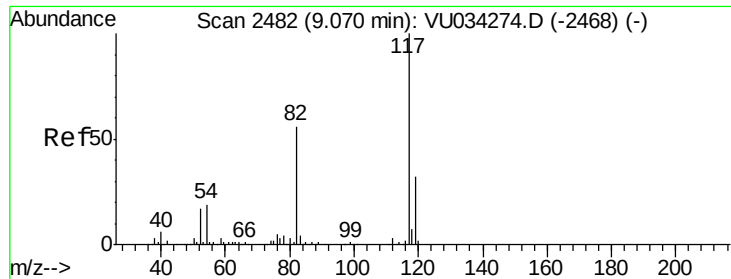
100000

50000

0

Time-->





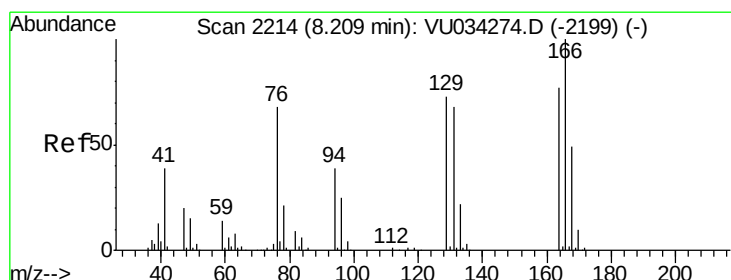
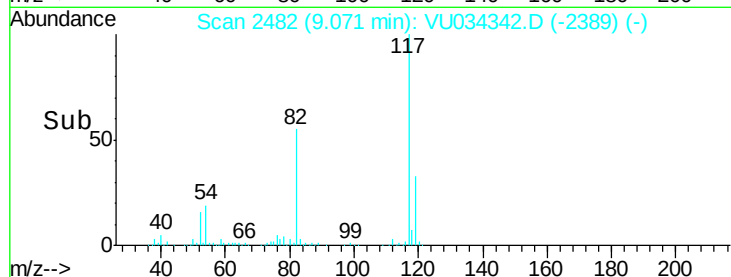
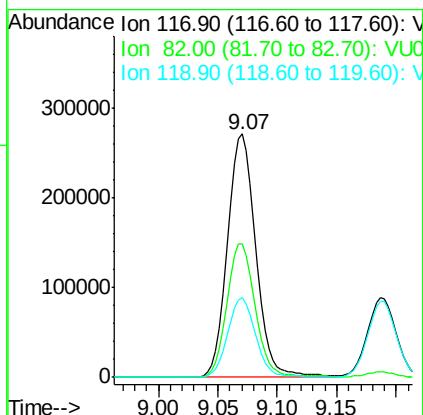
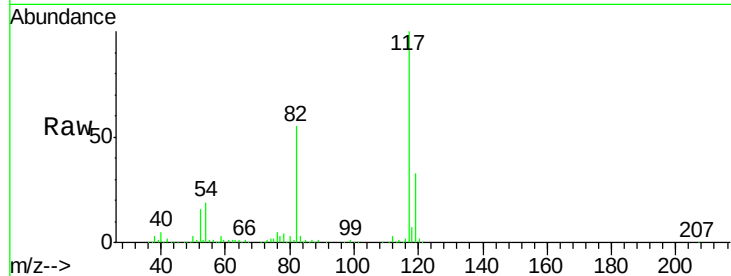
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034342.D
Acq: 06 Sep 2019 19:40

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MS

Tot Ion	Ratio	Resp	Lower	Upper
117	100	450869		
82	55.1		44.6	67.0
119	32.6		25.9	38.9

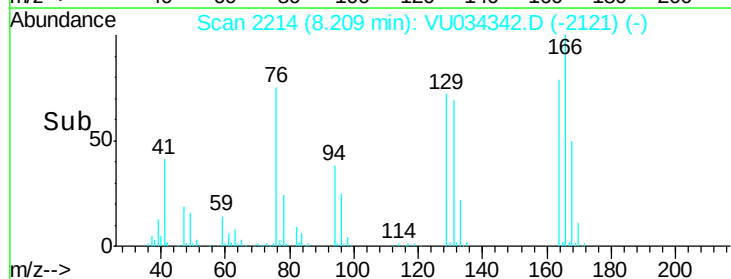
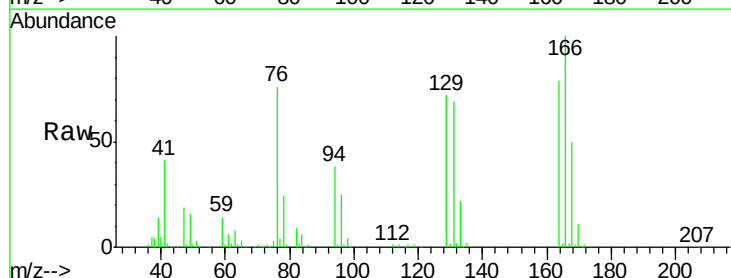
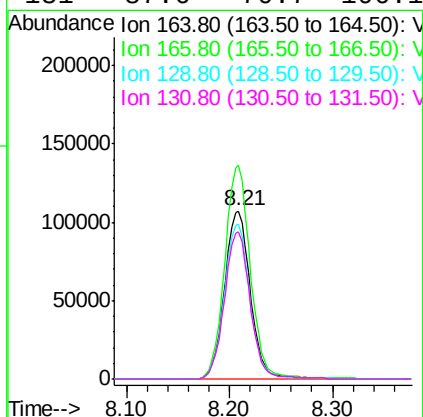
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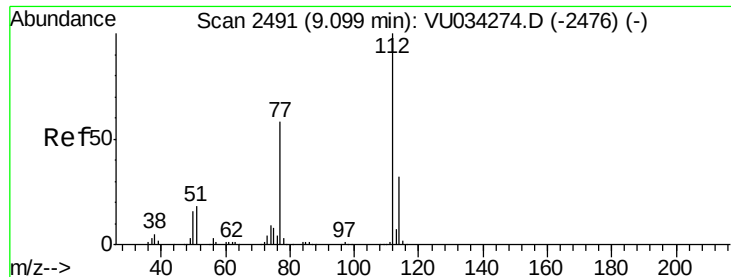
MMDadoda
9/10/2019 10:48:54 AM



#64
Tetrachloroethene
Concen: 47.859 ug/l
RT: 8.21 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VU034342.D
Acq: 06 Sep 2019 19:40

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	187201		
166	127.2		103.7	155.5
129	91.9		75.8	113.8
131	87.6		70.7	106.1





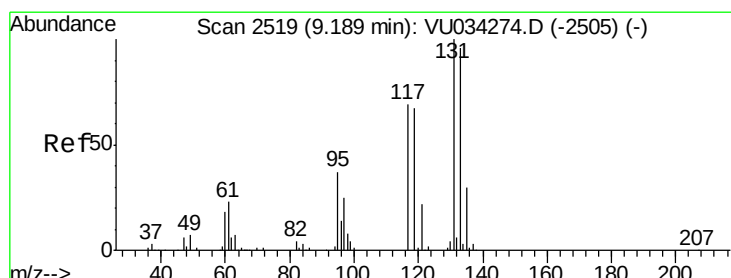
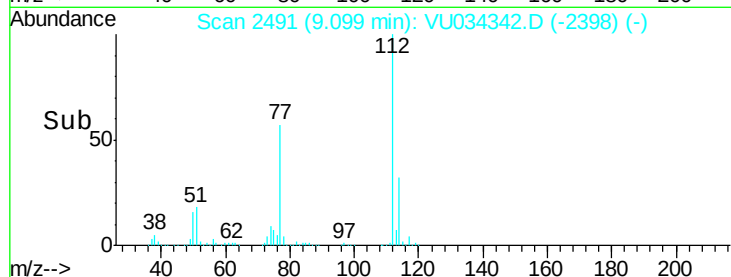
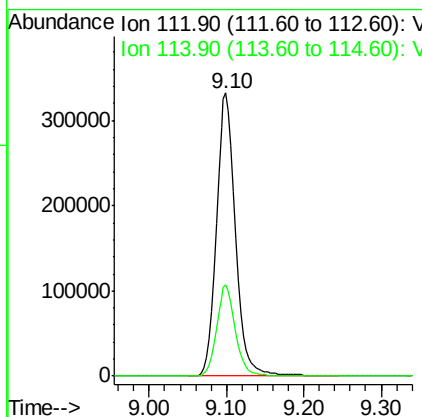
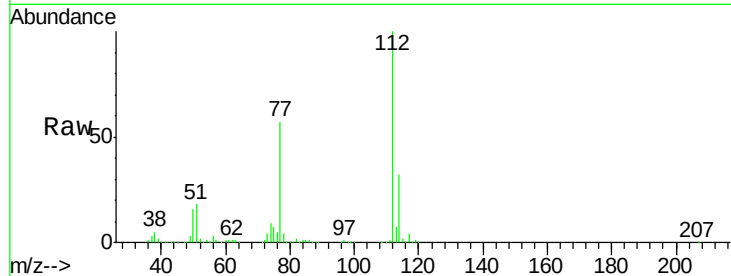
#65
Chlorobenzene
Concen: 50.546 ug/l
RT: 9.10 min Scan# 2491
Delta R.T. 0.00 min
Lab File: VU034342.D
Acq: 06 Sep 2019 19:40

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MS

Tot Ion	Ratio	Resp	Lower	Upper
112	100	578182		
114	32.1	25.9	38.9	

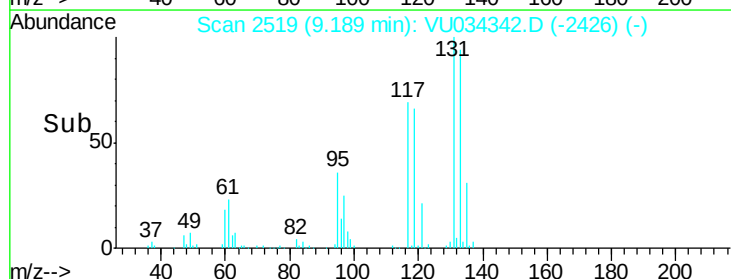
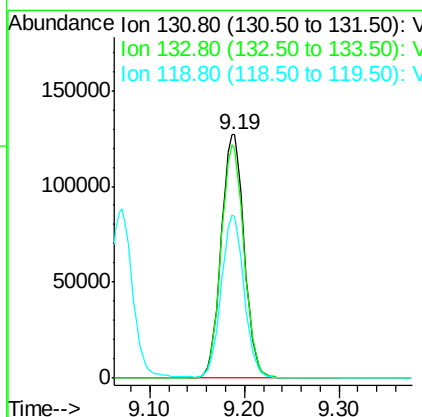
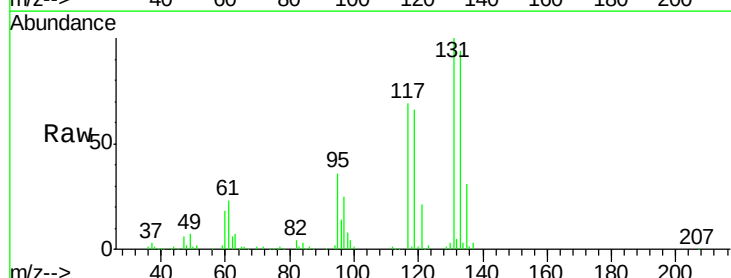
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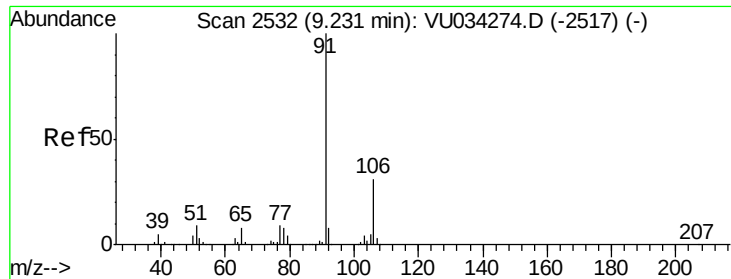
MMDadoda
9/10/2019 10:48:54 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 49.063 ug/l
RT: 9.19 min Scan# 2519
Delta R.T. 0.00 min
Lab File: VU034342.D
Acq: 06 Sep 2019 19:40

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	214180		
133	95.6	47.9	143.7	
119	66.3	33.1	99.5	





#67

Ethyl Benzene

Concen: 52.082 ug/l

RT: 9.23 min Scan# 2531

Delta R.T. -0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

Instrument :

MSVOA_U

ClientSampleID :

GW-200-B4-47.0-52.0-090519MS

Tot Ion: 91 Resp: 974086

Ion Ratio Lower Upper

91 100

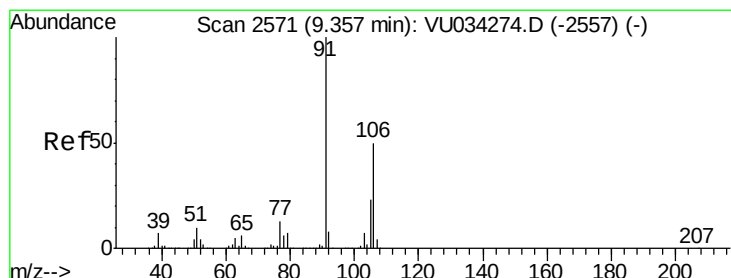
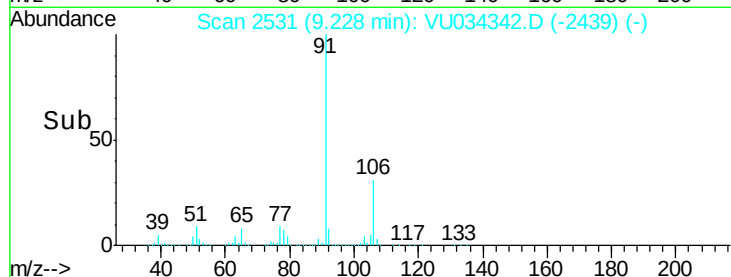
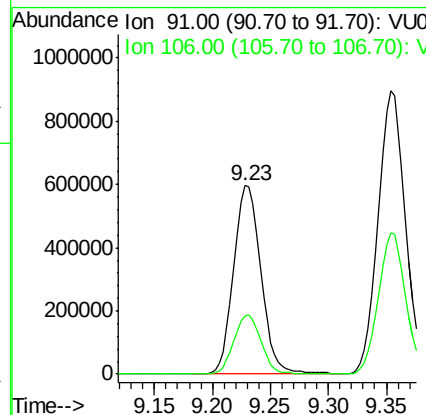
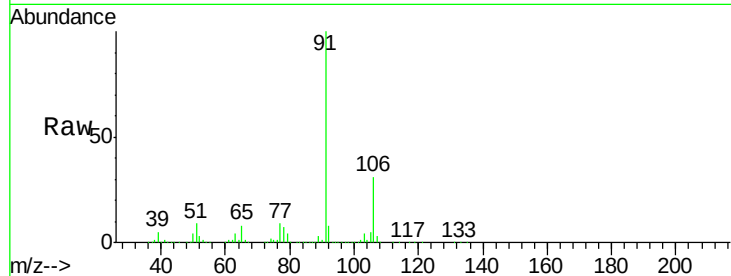
106 31.0 24.8 37.2

Manual Integrations

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9/10/2019 10:48:54 AM



#68

m/p-Xylenes

Concen: 106.106 ug/l

RT: 9.35 min Scan# 2570

Delta R.T. -0.00 min

Lab File: VU034342.D

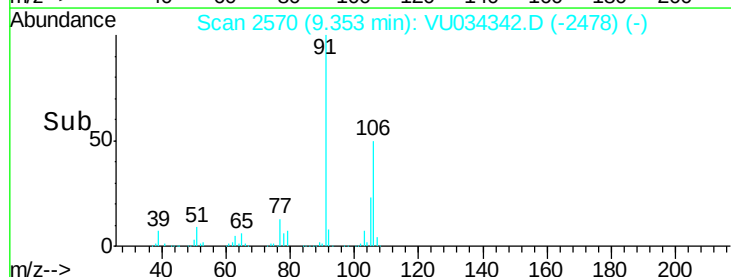
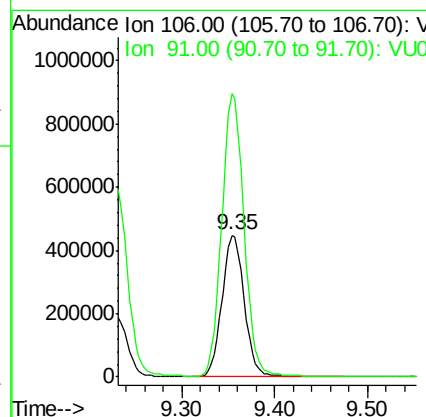
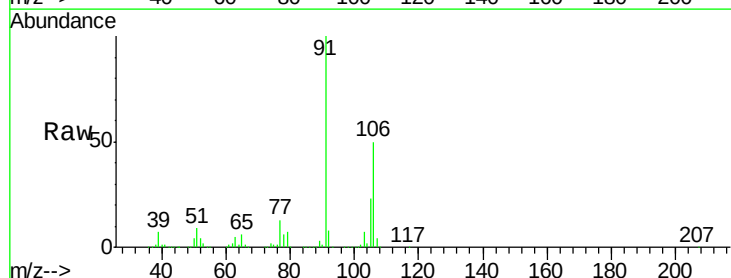
Acq: 06 Sep 2019 19:40

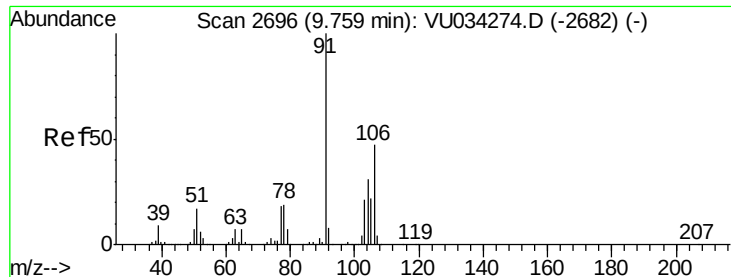
Tgt Ion: 106 Resp: 747284

Ion Ratio Lower Upper

106 100

91 200.6 160.1 240.1





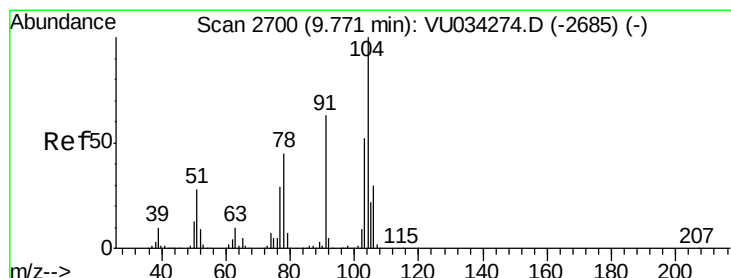
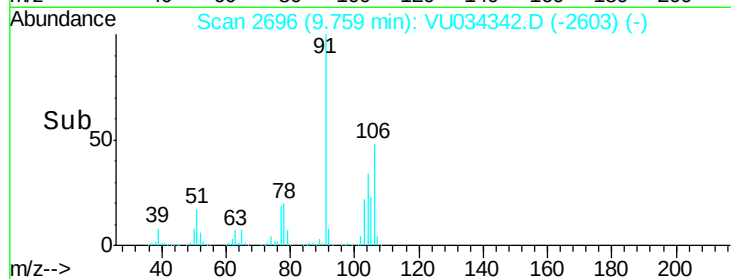
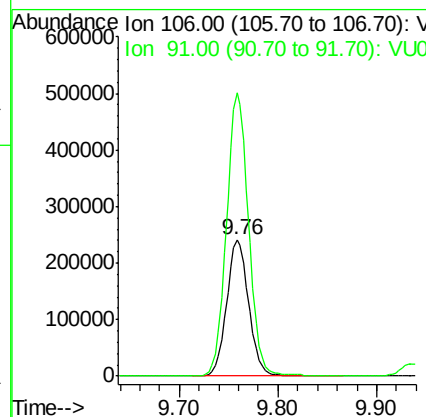
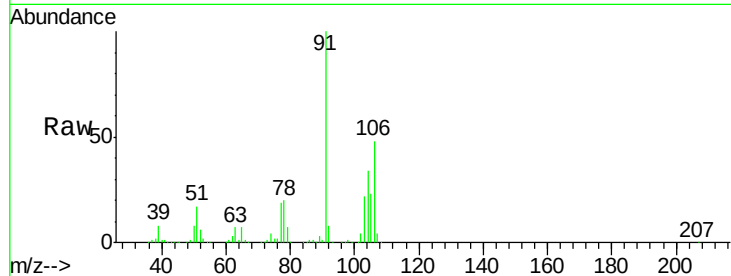
#69
o-Xylene
Concen: 54.756 ug/l
RT: 9.76 min Scan# 2696
Delta R.T. 0.00 min
Lab File: VU034342.D
Acq: 06 Sep 2019 19:40

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MS

Tot Ion	Ion	Ratio	Resp	Lower	Upper
377139	106	100			
	91	207.7	105.1	315.3	

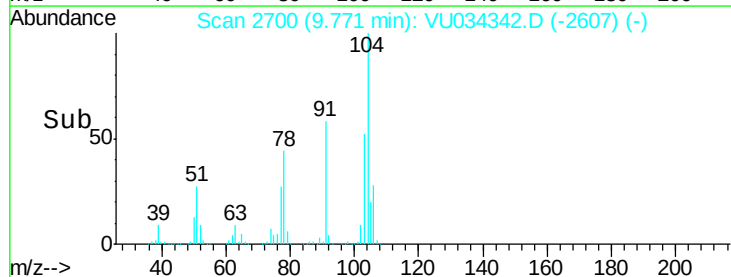
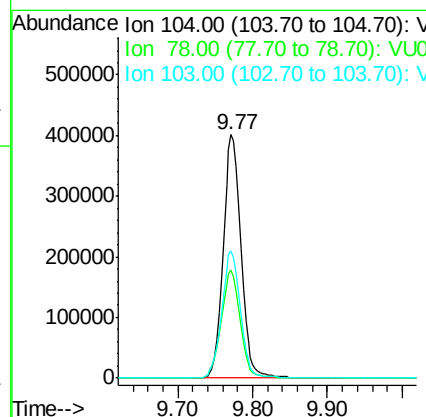
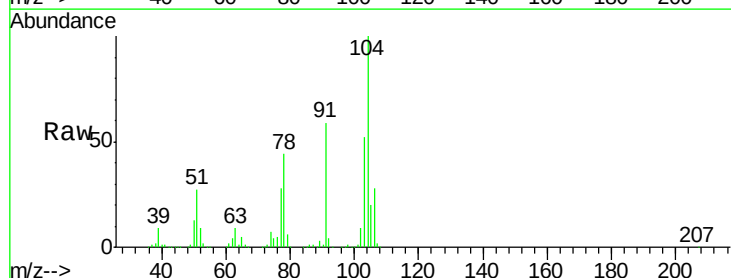
Manual Integrations
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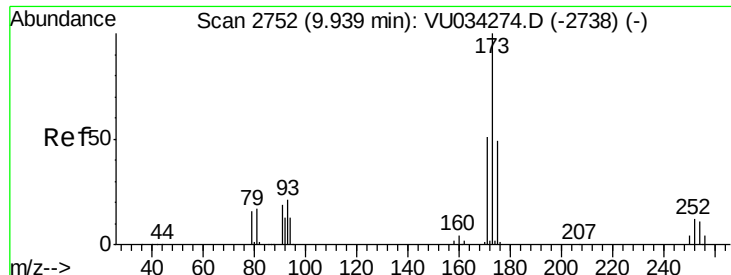
MMDadoda
9/10/2019 10:48:54 AM



#70
Styrene
Concen: 54.949 ug/l
RT: 9.77 min Scan# 2700
Delta R.T. 0.00 min
Lab File: VU034342.D
Acq: 06 Sep 2019 19:40

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
663549	104	100			
	78	47.1	38.6	57.8	
	103	54.7	44.2	66.4	





#71

Bromoform

Concen: 49.758 ug/l

RT: 9.94 min Scan# 2752

Delta R.T. 0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

Instrument :

MSVOA_U

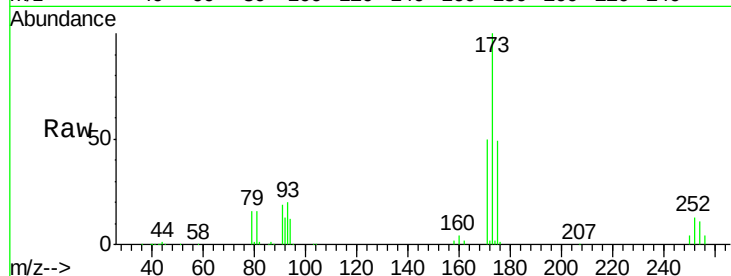
ClientSampleId :

GW-200-B4-47.0-52.0-090519MS

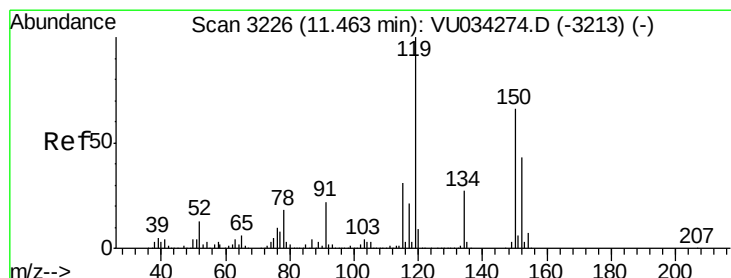
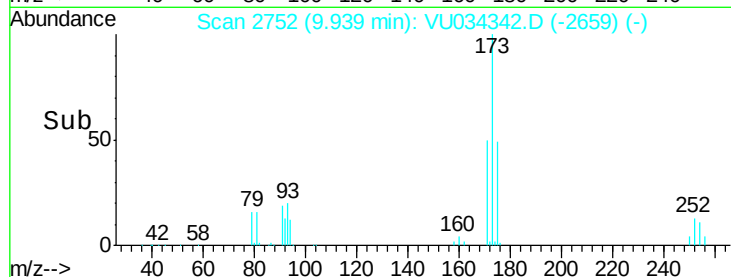
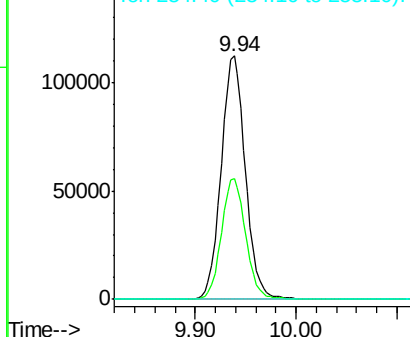
Tot Ion:	173	Resp:	188250
Ion Ratio	Lower	Upper	
173	100		
175	49.8	24.4	73.2
254	0.1	0.0	0.0#

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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

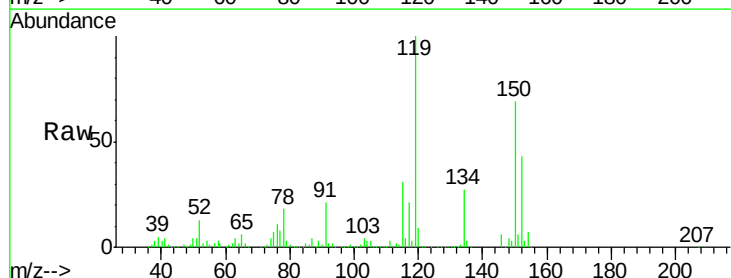
RT: 11.46 min Scan# 3226

Delta R.T. 0.00 min

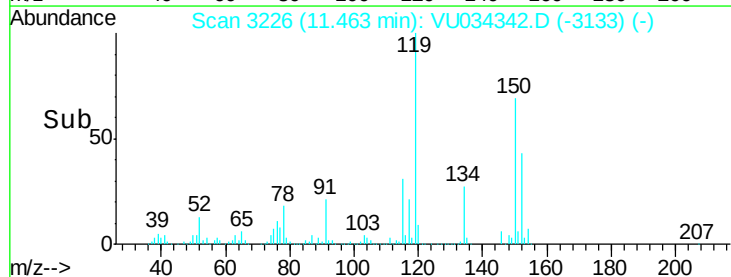
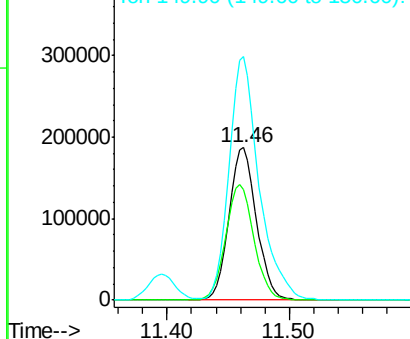
Lab File: VU034342.D

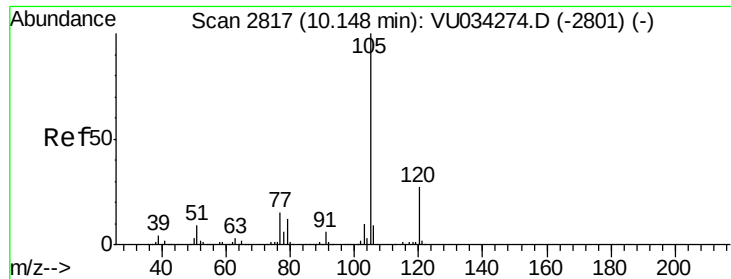
Acq: 06 Sep 2019 19:40

Tgt Ion:	152	Resp:	293581
Ion Ratio	Lower	Upper	
152	100		
115	78.1	39.1	117.3
150	174.6	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: 52.777 ug/l

RT: 10.14 min Scan# 2816

Delta R.T. -0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MS

Tot Ion:105 Resp: 1008326

Ion Ratio Lower Upper

105 100

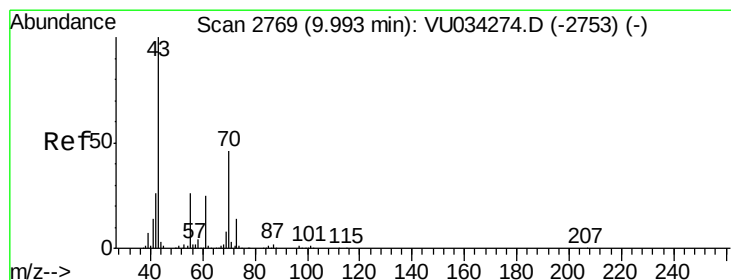
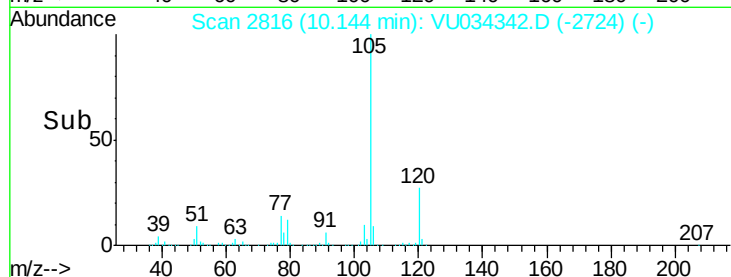
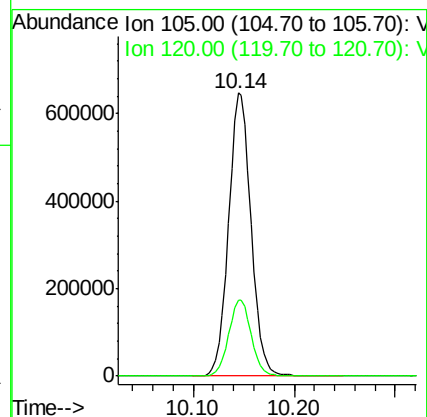
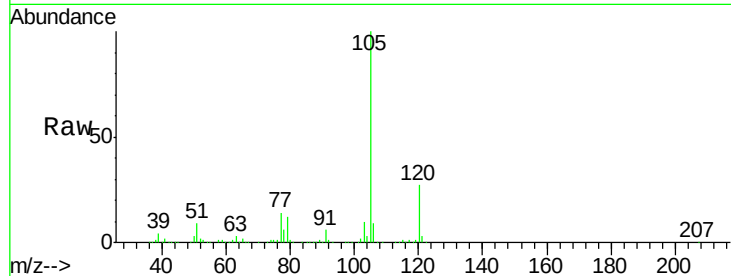
120 27.1 13.4 40.2

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9/10/2019 10:48:54 AM



#74

N-ethyl acetate

Concen: 52.804 ug/l

RT: 9.99 min Scan# 2769

Delta R.T. 0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

Tgt Ion: 43 Resp: 406089

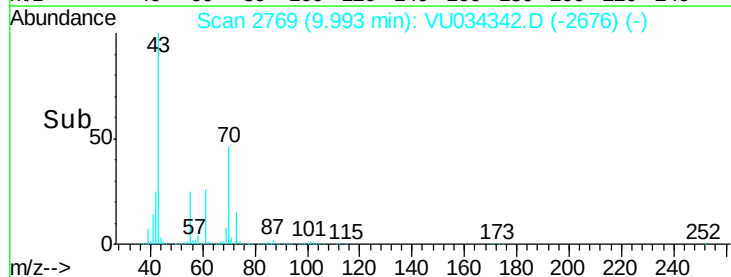
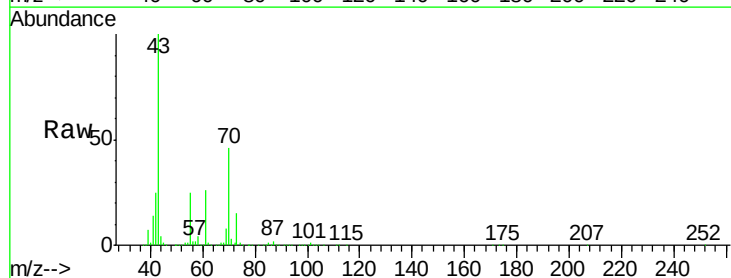
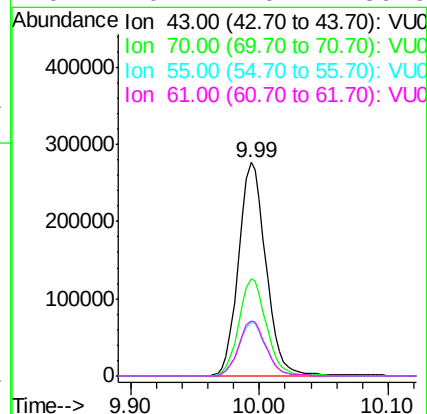
Ion Ratio Lower Upper

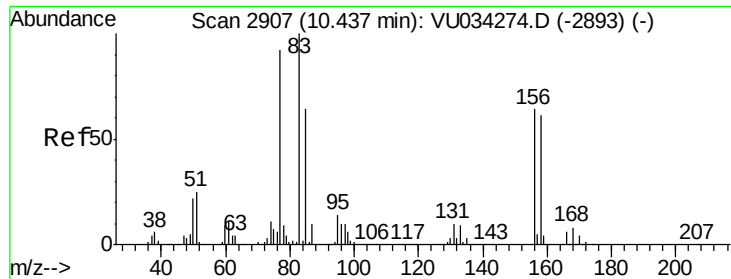
43 100

70 46.1 36.4 54.6

55 25.5 21.2 31.8

61 26.2 20.4 30.6





#75

1,1,2,2-Tetrachloroethane

Concen: 49.187 ug/l

RT: 10.44 min Scan# 2907

Delta R.T. 0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

Instrument :

MSVOA_U

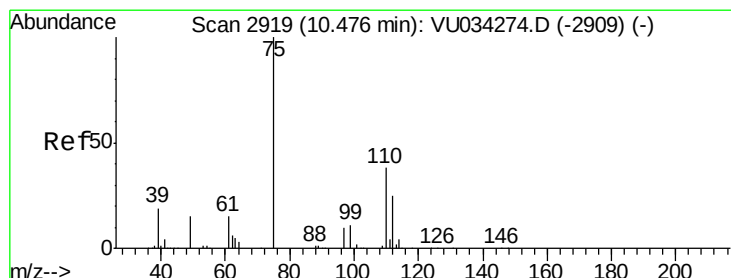
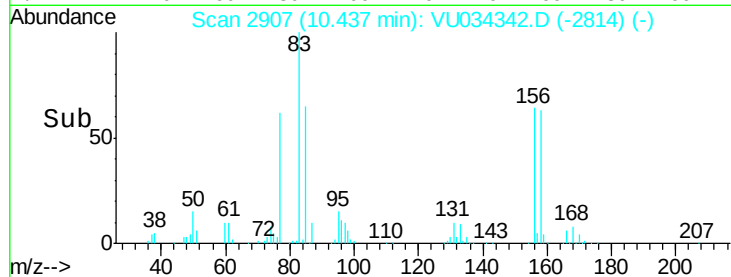
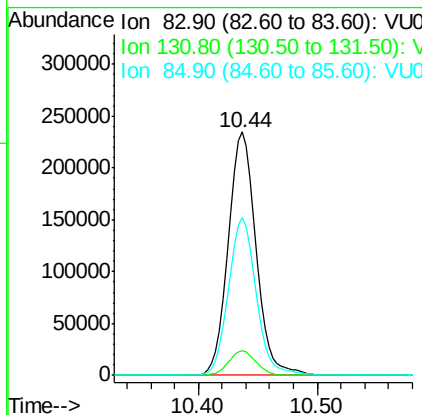
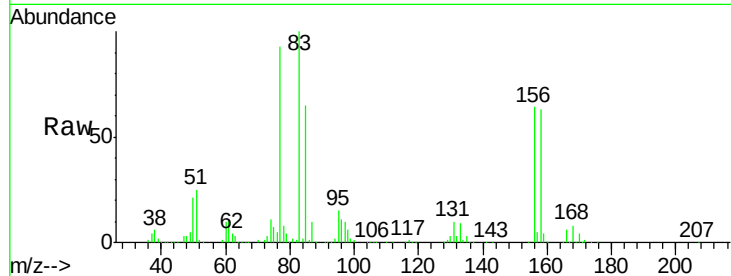
ClientSampleId :

GW-200-B4-47.0-52.0-090519MS

Tot Ion:	83	Resp:	380383
Ion Ratio	Lower	Upper	
83	100		
131	9.9	5.1	15.2
85	64.6	32.0	96.2

Manual Integrations
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9/10/2019 10:48:54 AM



#76

1,2,3-Trichloropropane

Concen: 49.843 ug/l m

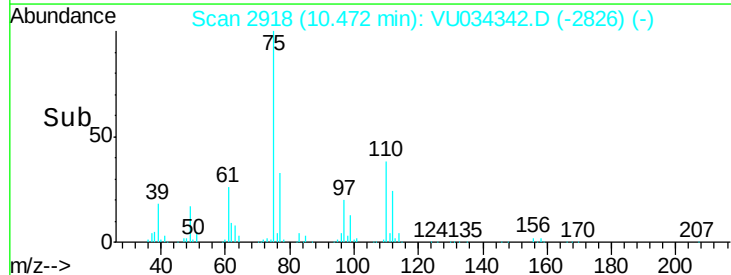
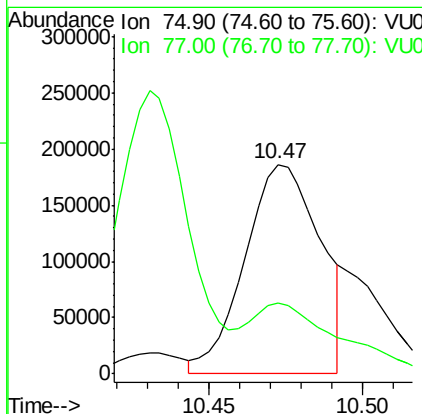
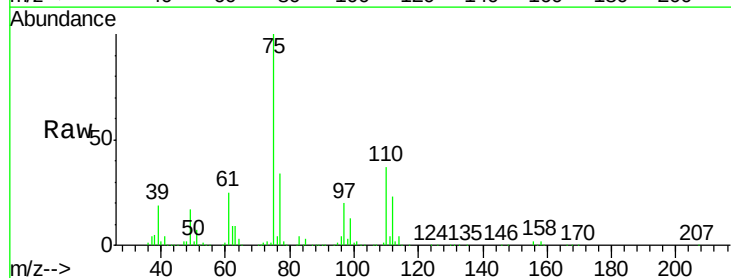
RT: 10.47 min Scan# 2918

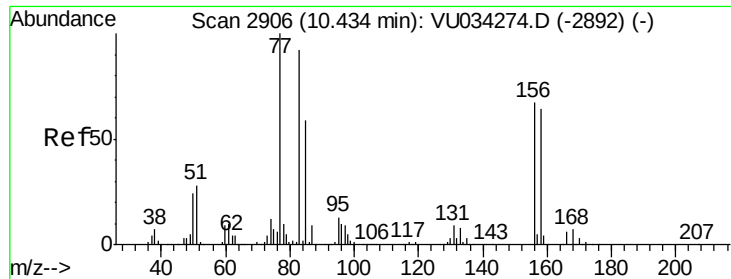
Delta R.T. -0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

Tgt Ion:	75	Resp:	319412
Ion Ratio	Lower	Upper	
75	100		
77	39.8	20.8	62.2





#77

Bromobenzene

Concen: 51.767 ug/l

RT: 10.43 min Scan# 2905

Delta R.T. -0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

Instrument :

MSVOA_U

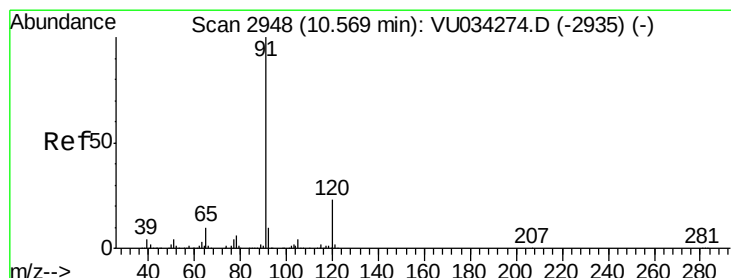
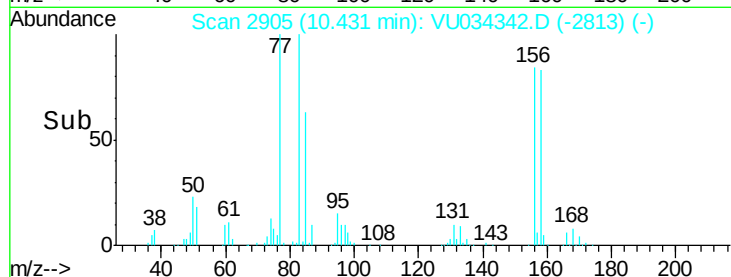
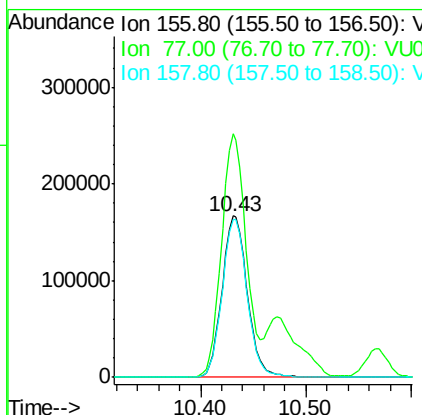
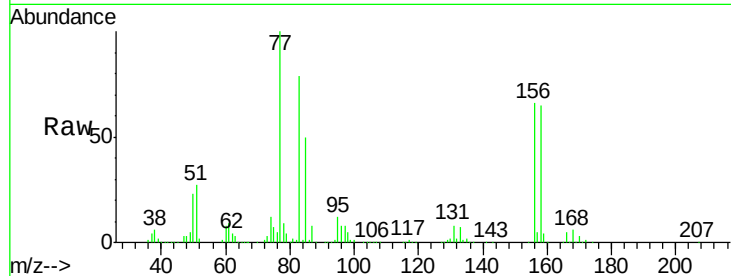
ClientSampleId :

GW-200-B4-47.0-52.0-090519MS

Tot Ion	Ion	Ratio	Lower	Upper
276547	156	100		
	77	146.5	75.6	226.9
	158	97.1	48.2	144.6

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#78

n-propylbenzene

Concen: 52.564 ug/l

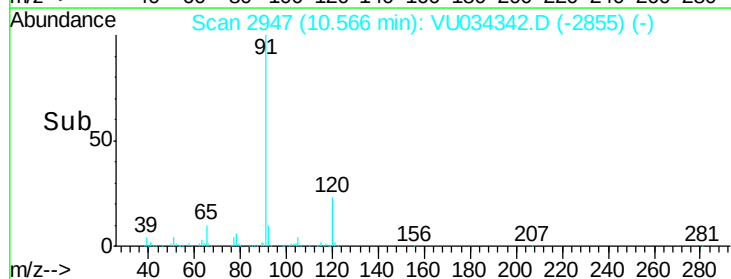
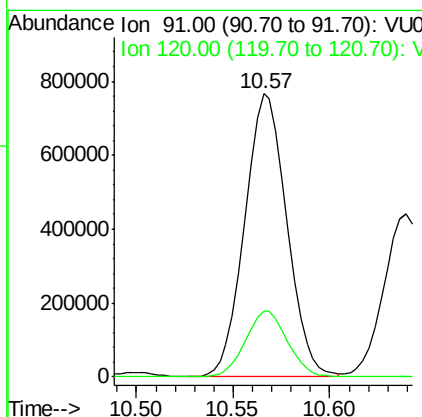
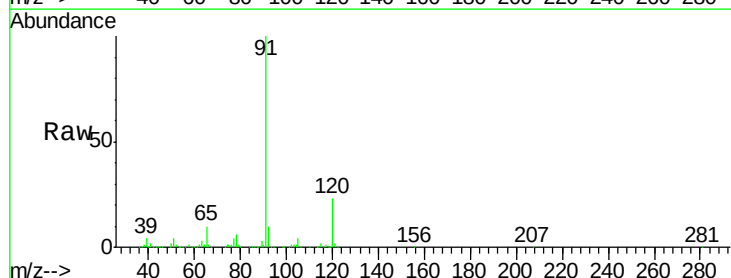
RT: 10.57 min Scan# 2947

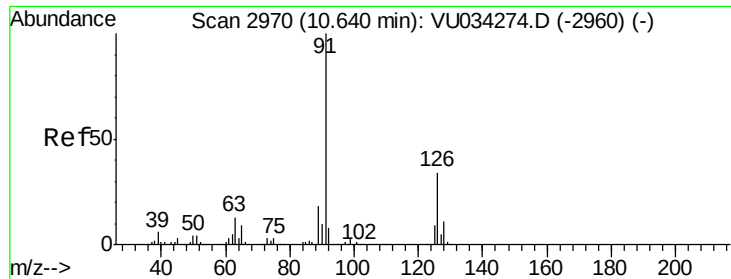
Delta R.T. -0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

Tgt Ion	Ion	Ratio	Lower	Upper
1159836	91	100		
	120	23.4	11.7	35.0





#79

2-Chlorotoluene

Concen: 51.908 ug/l

RT: 10.64 min Scan# 2970

Delta R.T. 0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MS

Tot Ion: 91 Resp: 698851

Ion Ratio Lower Upper

91 100

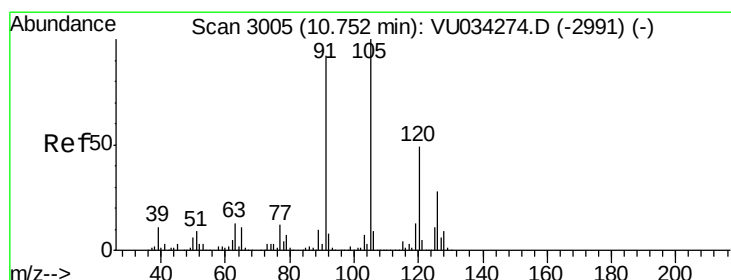
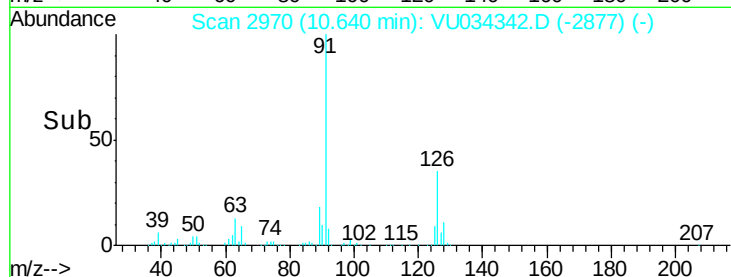
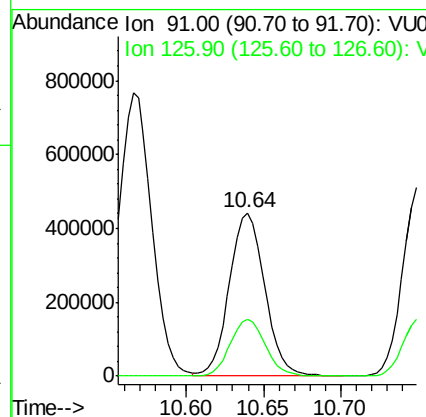
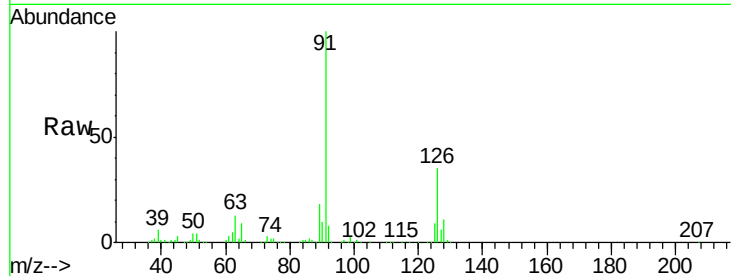
126 34.8 17.3 51.9

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 53.820 ug/l

RT: 10.75 min Scan# 3005

Delta R.T. 0.00 min

Lab File: VU034342.D

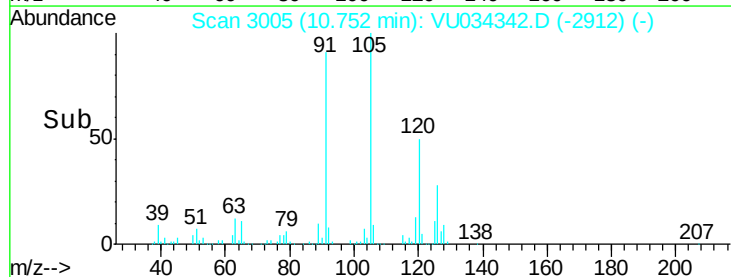
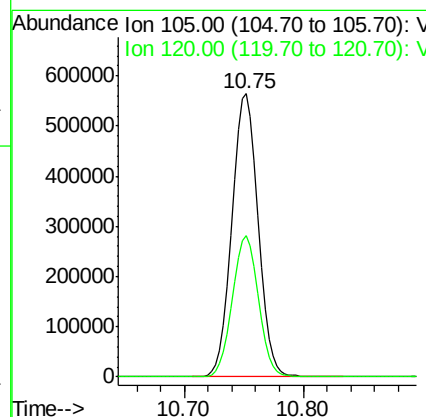
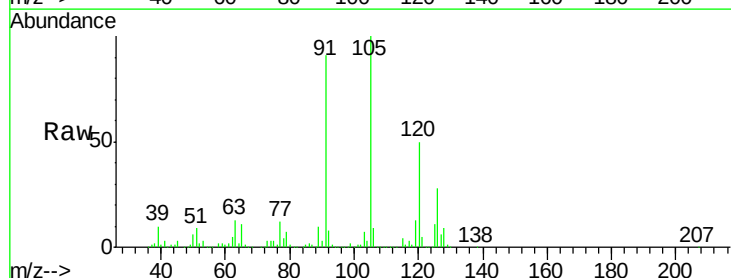
Acq: 06 Sep 2019 19:40

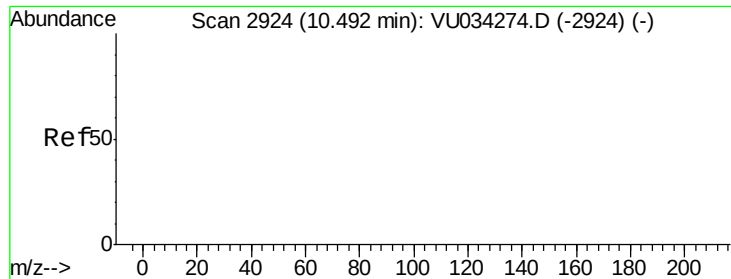
Tgt Ion: 105 Resp: 859978

Ion Ratio Lower Upper

105 100

120 49.8 24.9 74.7





#81

trans-1,4-Dichloro-2-butene

Concen: 49.148 ug/l m

RT: 10.49 min Scan# 2924

Delta R.T. 0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

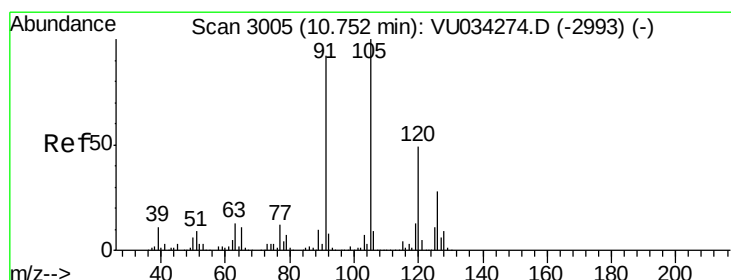
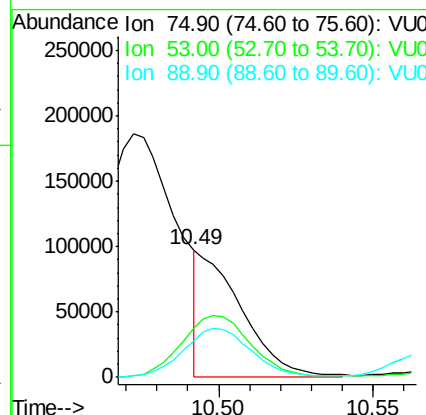
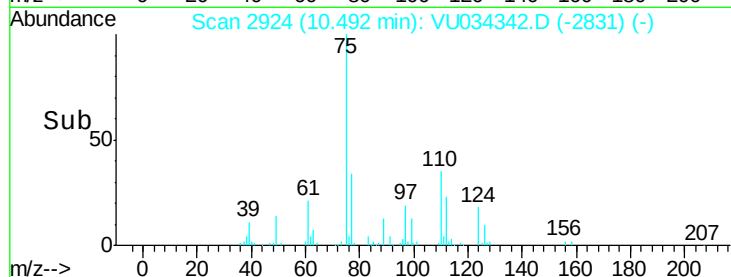
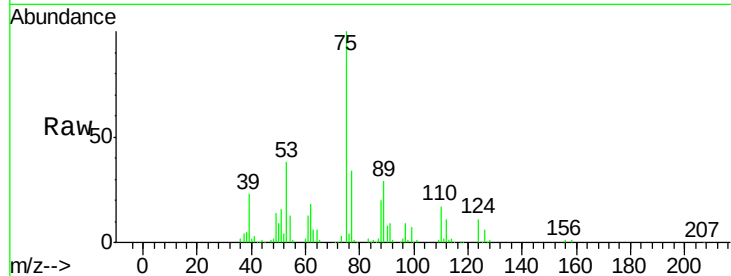
Instrument :
MSVOA_U

ClientSampleId :
GW-200-B4-47.0-52.0-090519MS

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

Manual Integrations
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#82

4-Chlorotoluene

Concen: 51.846 ug/l

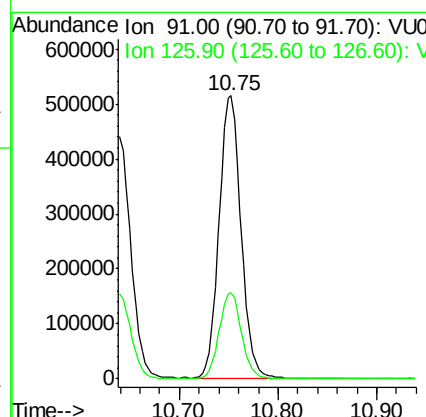
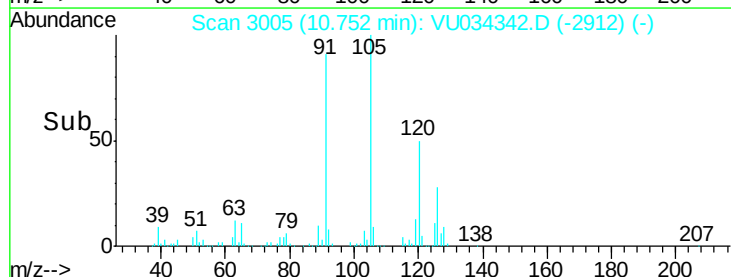
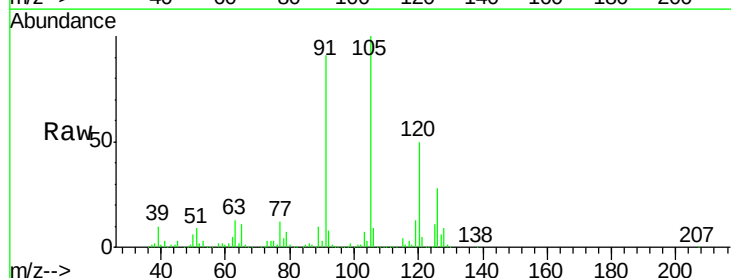
RT: 10.75 min Scan# 3005

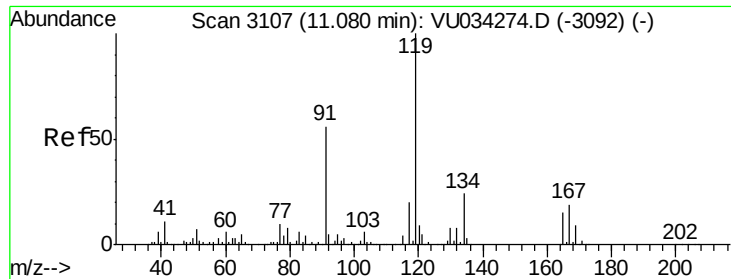
Delta R.T. 0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.0	15.3	45.8





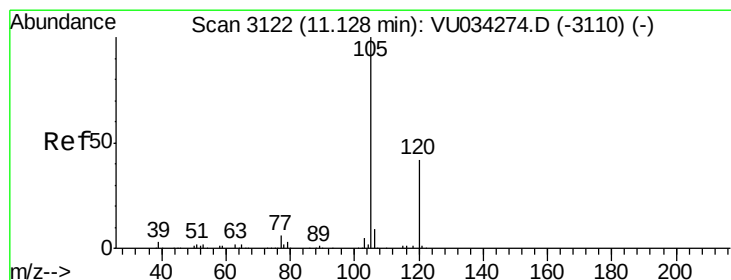
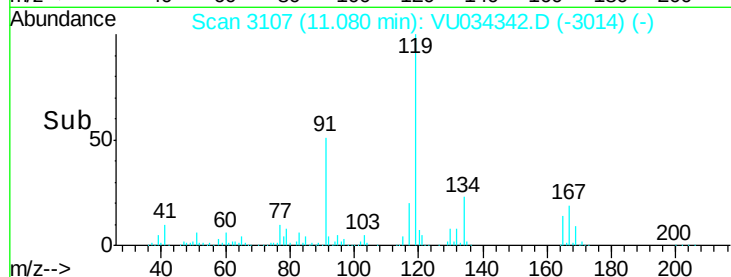
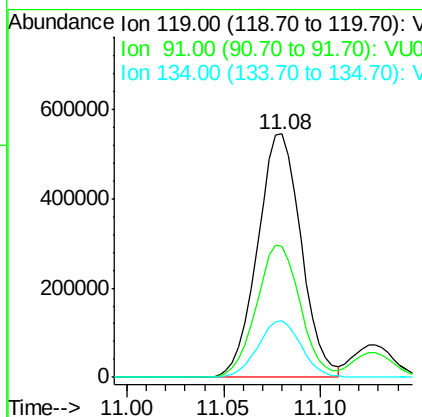
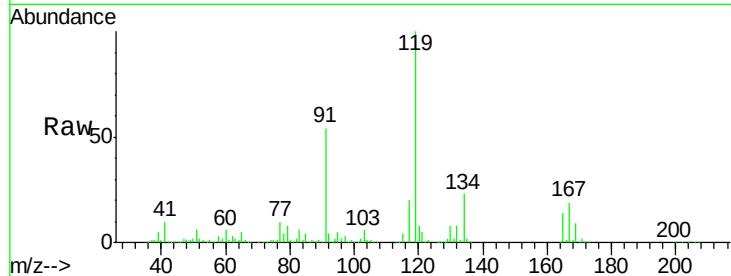
#83
 tert-Butylbenzene
 Concen: 53.677 ug/l
 RT: 11.08 min Scan# 3107
 Delta R.T. 0.00 min
 Lab File: VU034342.D
 Acq: 06 Sep 2019 19:40

Instrument :
 MSVOA_U
 ClientSampleId :
 GW-200-B4-47.0-52.0-090519MS

Tot Ion	Ratio	Resp	Lower	Upper
119	100	858013		
91	54.5	27.8	83.4	
134	23.1	11.7	35.0	

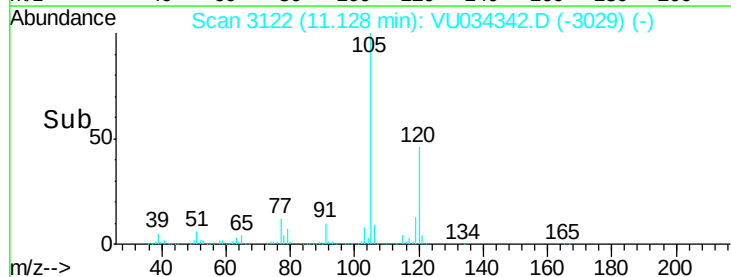
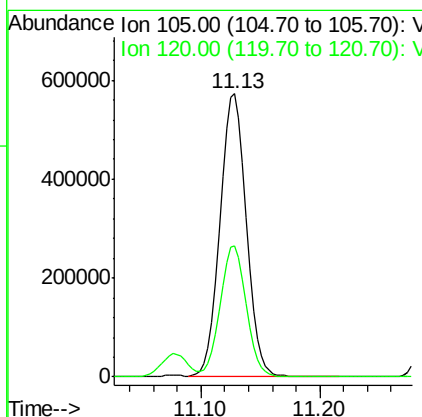
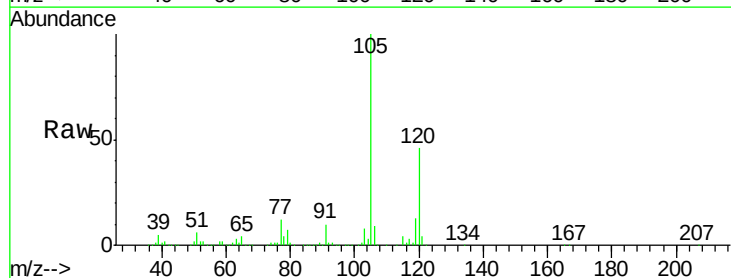
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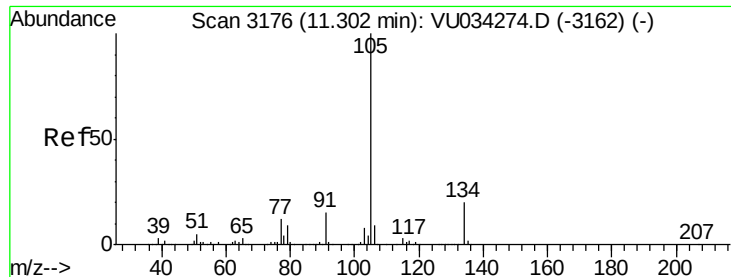
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#84
 1,2,4-Trimethylbenzene
 Concen: 54.444 ug/l
 RT: 11.13 min Scan# 3122
 Delta R.T. 0.00 min
 Lab File: VU034342.D
 Acq: 06 Sep 2019 19:40

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	875697		
120	45.9	22.9	68.8	





#85

sec-Butylbenzene

Concen: 53.140 ug/l

RT: 11.30 min Scan# 3176

Delta R.T. 0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MS

Tot Ion:105 Resp: 1002817

Ion Ratio Lower Upper

105 100

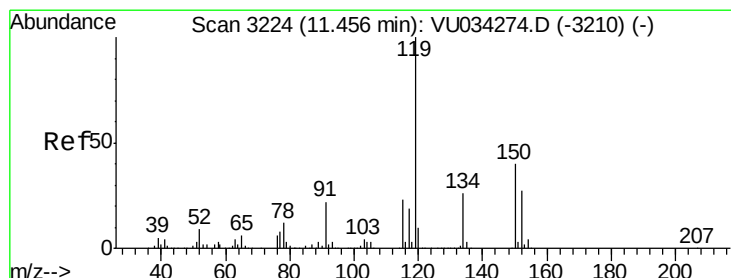
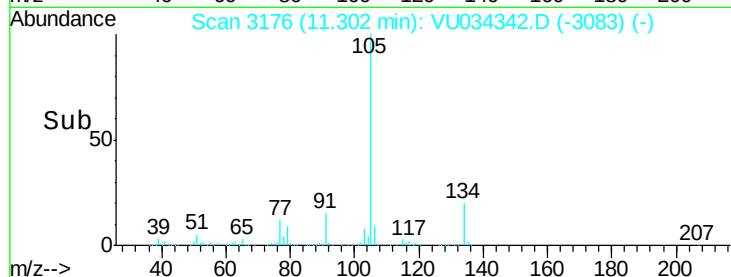
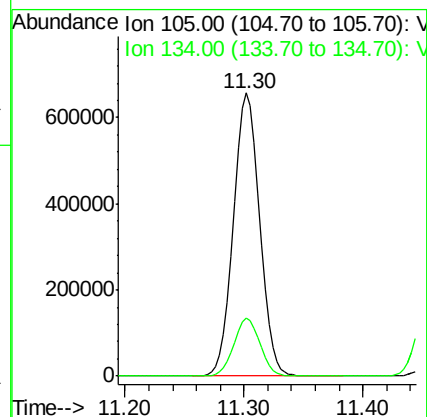
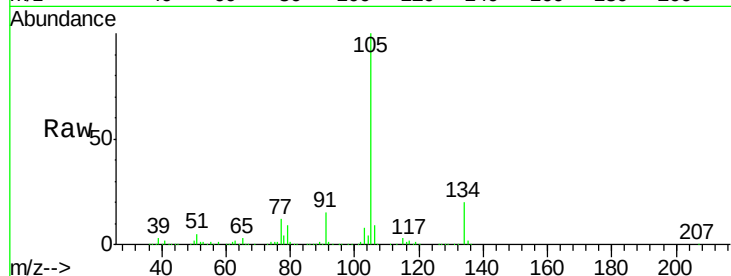
134 20.5 10.1 30.3

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#86

p-Isopropyltoluene

Concen: 53.524 ug/l

RT: 11.45 min Scan# 3223

Delta R.T. -0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

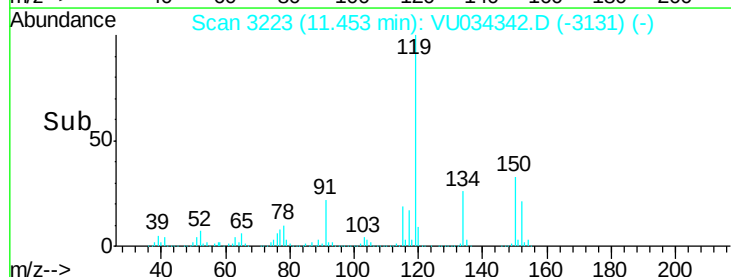
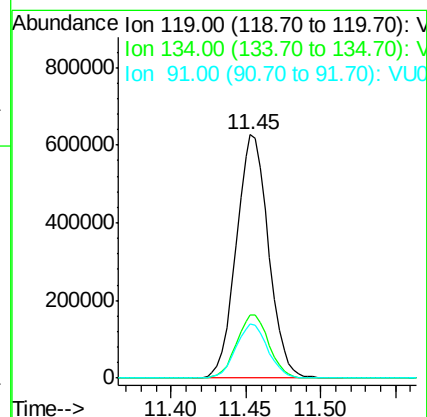
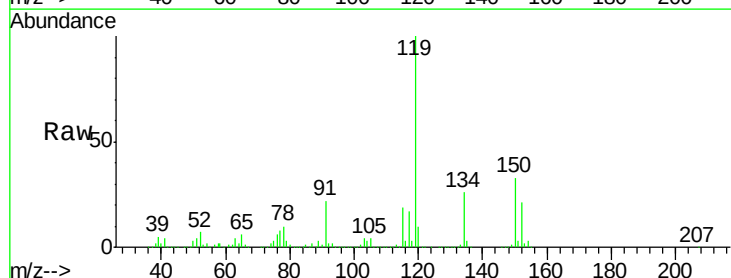
Tgt Ion:119 Resp: 932271

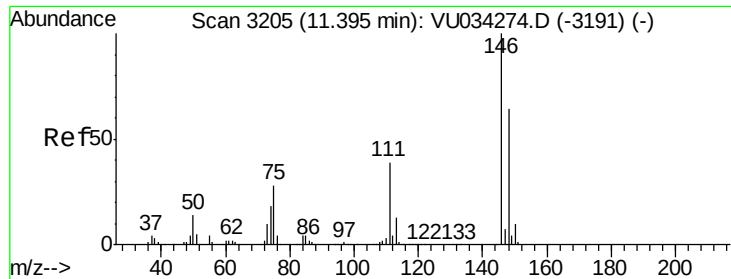
Ion Ratio Lower Upper

119 100

134 26.2 13.3 39.8

91 21.9 11.2 33.6





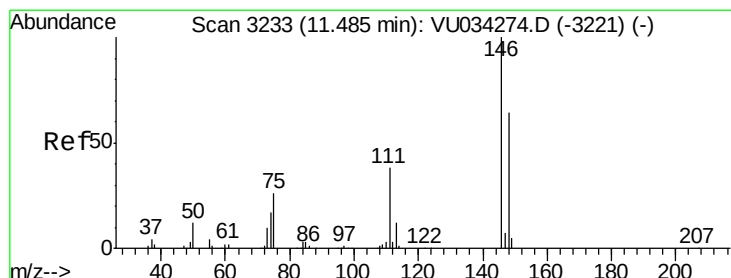
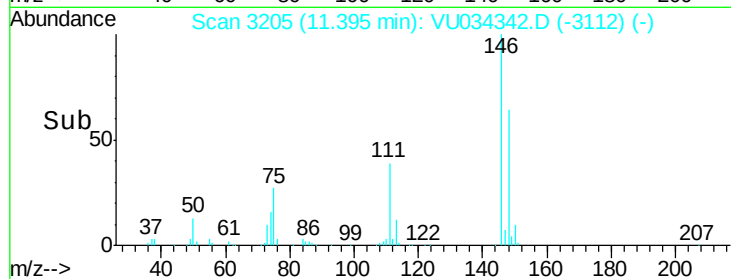
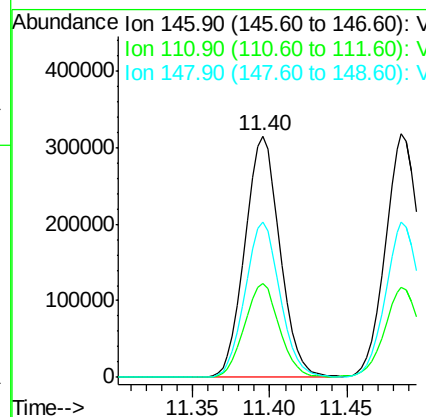
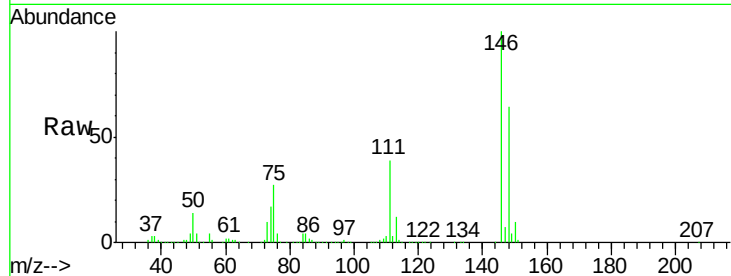
#87
 1,3-Dichlorobenzene
 Concen: 51.005 ug/l
 RT: 11.40 min Scan# 3205
 Delta R.T. 0.00 min
 Lab File: VU034342.D
 Acq: 06 Sep 2019 19:40

Instrument :
 MSVOA_U
 ClientSampleId :
 GW-200-B4-47.0-52.0-090519MS

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.5	58.5
148	64.2	32.1	96.3

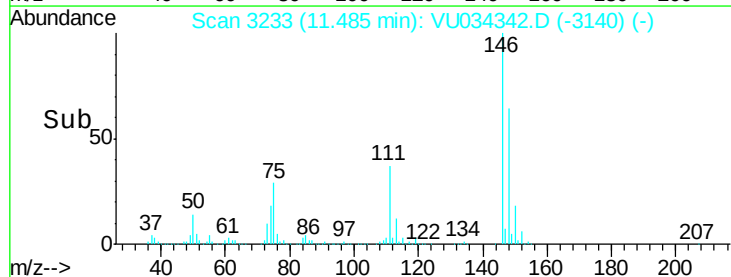
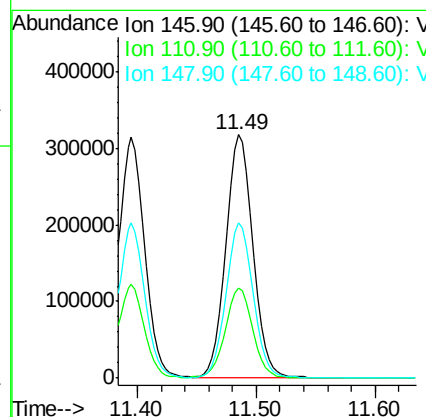
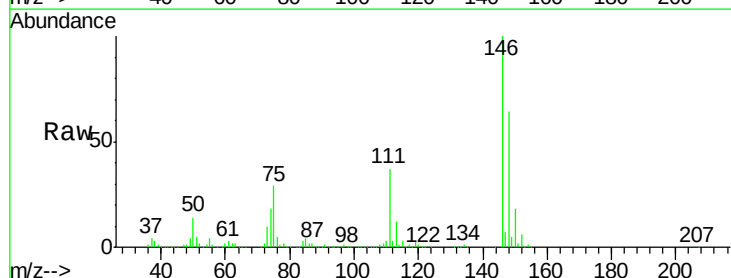
Manual Integrations
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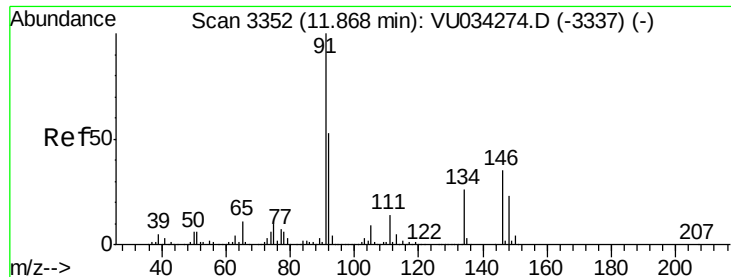
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 9/10/2019 10:48:54 AM



#88
 1,4-Dichlorobenzene
 Concen: 49.129 ug/l
 RT: 11.49 min Scan# 3233
 Delta R.T. 0.00 min
 Lab File: VU034342.D
 Acq: 06 Sep 2019 19:40

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.5	19.1	57.3
148	64.0	32.0	96.0





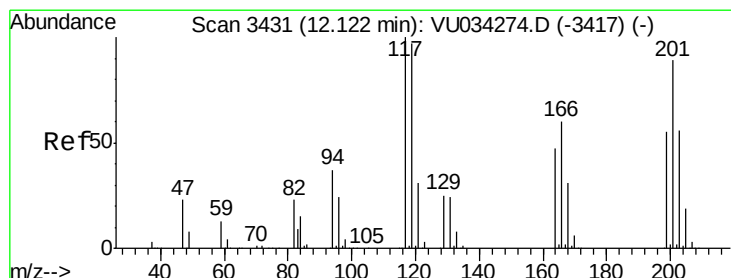
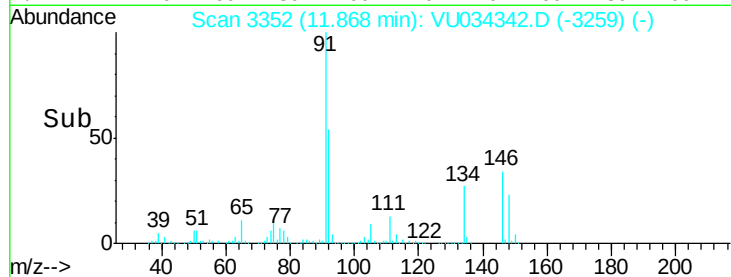
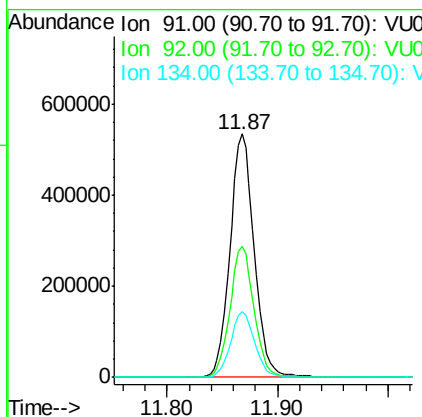
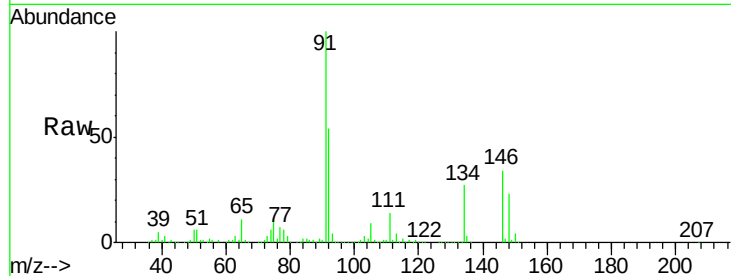
#89
n-Butylbenzene
Concen: 53.643 ug/l
RT: 11.87 min Scan# 3352
Delta R.T. 0.00 min
Lab File: VU034342.D
Acq: 06 Sep 2019 19:40

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MS

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.5	26.5	79.4
134	26.9	13.2	39.6

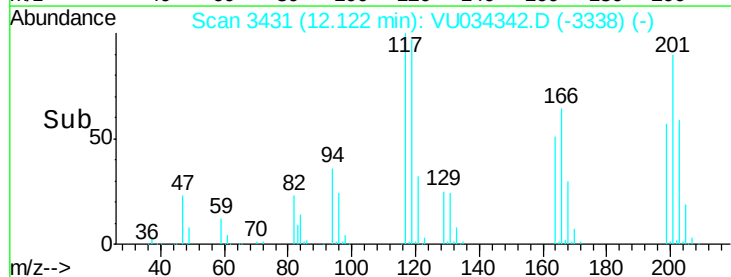
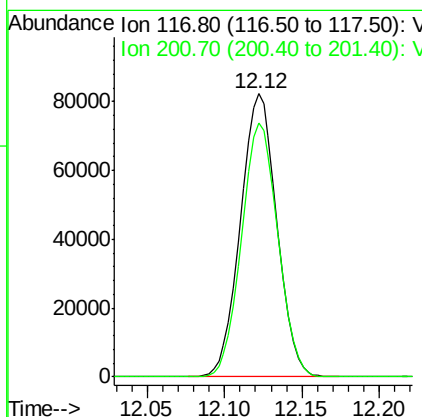
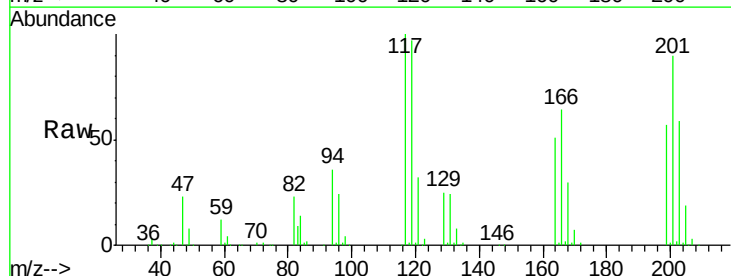
Manual Integrations
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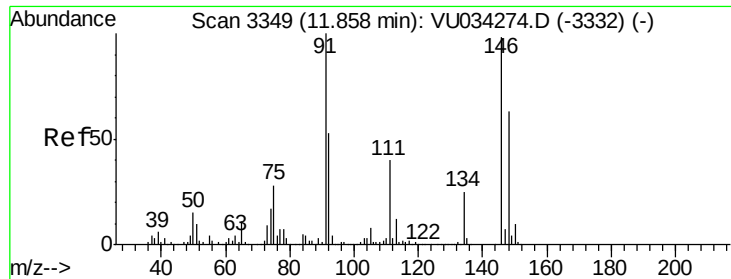
MMDadoda
9/10/2019 10:48:54 AM



#90
Hexachloroethane
Concen: 48.267 ug/l
RT: 12.12 min Scan# 3431
Delta R.T. 0.00 min
Lab File: VU034342.D
Acq: 06 Sep 2019 19:40

Tgt Ion	Ratio	Lower	Upper
117	100		
201	89.6	44.1	132.4





#91

1,2-Dichlorobenzene

Concen: 51.707 ug/l

RT: 11.86 min Scan# 3349

Delta R.T. 0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

Instrument :

MSVOA_U

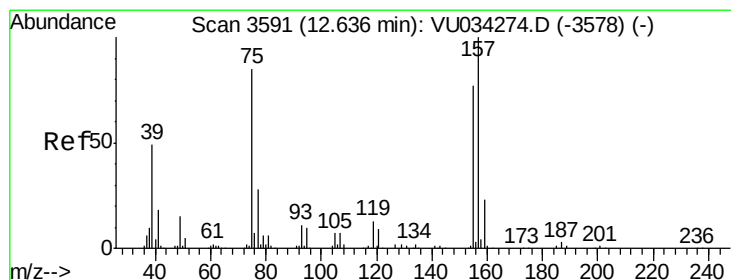
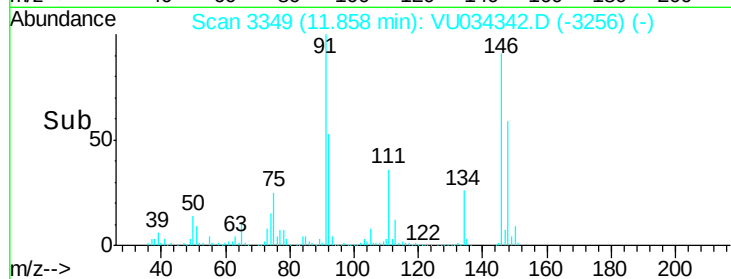
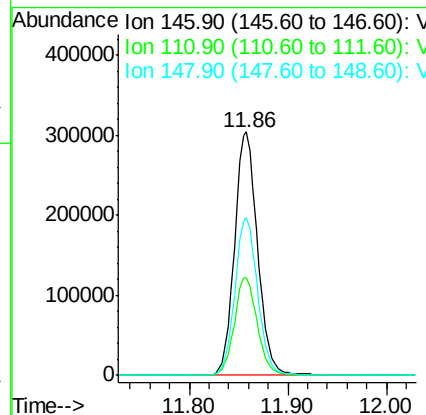
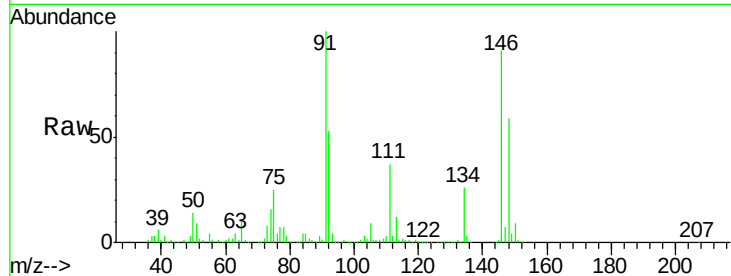
ClientSampleId :

GW-200-B4-47.0-52.0-090519MS

Tot Ion:	146	Resp:	495380
Ion Ratio	Lower	Upper	
146	100		
111	40.0	20.0	60.0
148	64.1	31.6	94.8

Manual Integrations
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MMDadoda
9/10/2019 10:48:54 AM



#92

1,2-Dibromo-3-Chloropropane

Concen: 54.320 ug/l

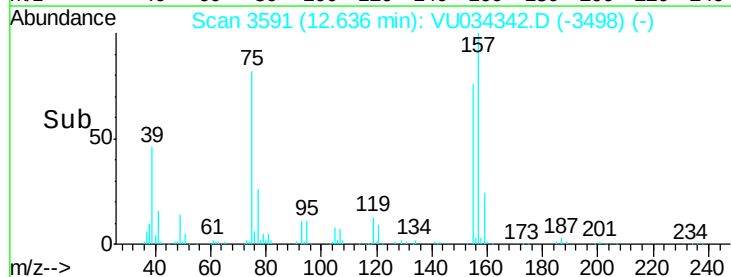
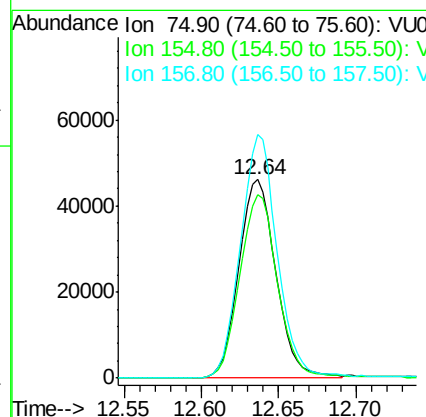
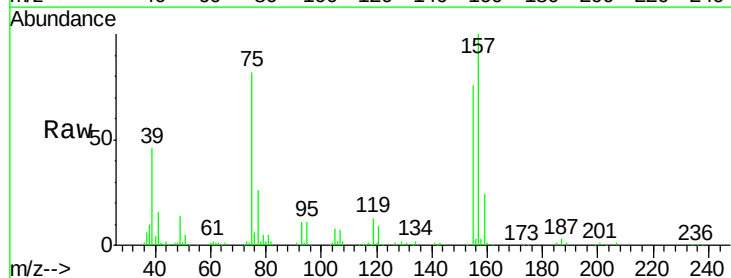
RT: 12.64 min Scan# 3591

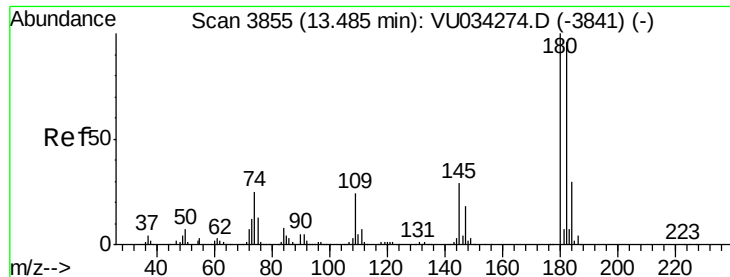
Delta R.T. 0.00 min

Lab File: VU034342.D

Acq: 06 Sep 2019 19:40

Tgt Ion:	75	Resp:	77193
Ion Ratio	Lower	Upper	
75	100		
155	93.6	44.6	134.0
157	121.8	58.2	174.6





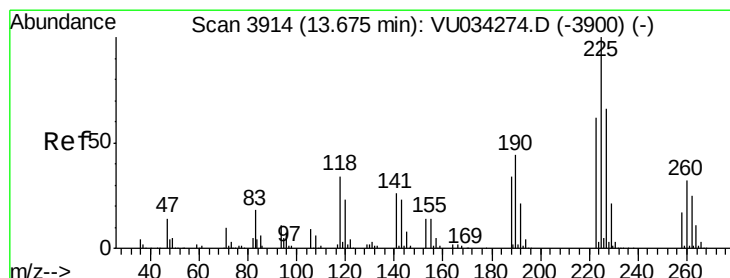
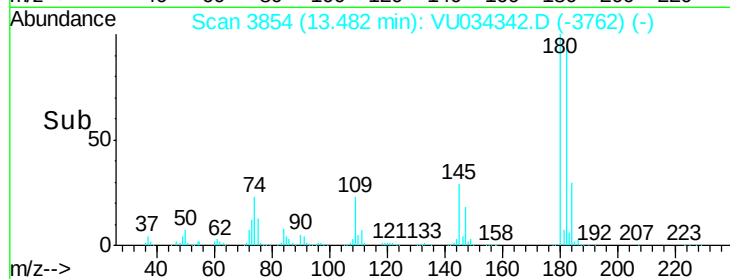
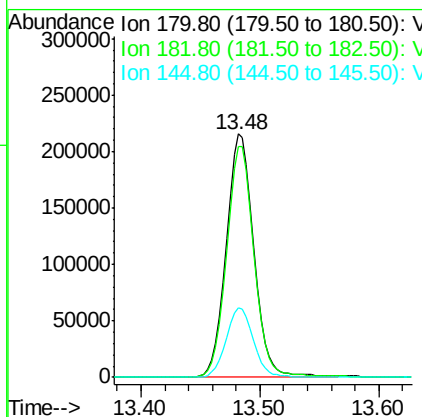
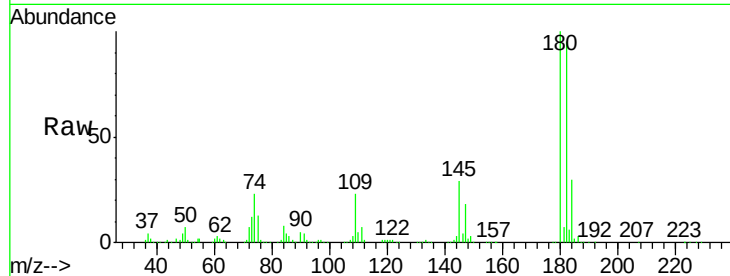
#93
 1,2,4-Trichlorobenzene
 Concen: 49.821 ug/l
 RT: 13.48 min Scan# 3854
 Delta R.T. -0.00 min
 Lab File: VU034342.D
 Acq: 06 Sep 2019 19:40

Instrument :
 MSVOA_U
 ClientSampleId :
 GW-200-B4-47.0-52.0-090519MS

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.9	143.8
145	28.4	14.4	43.0

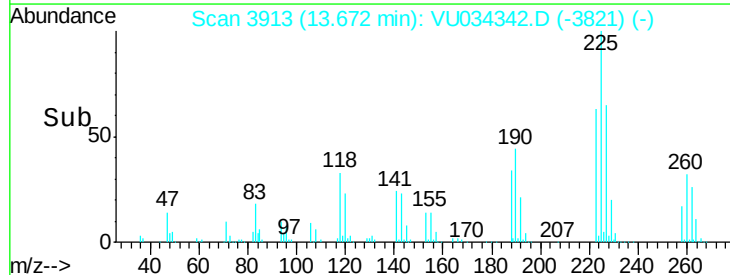
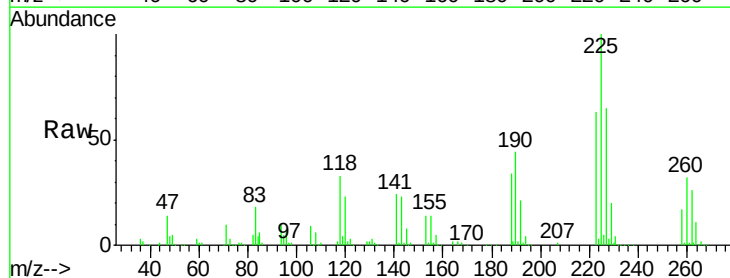
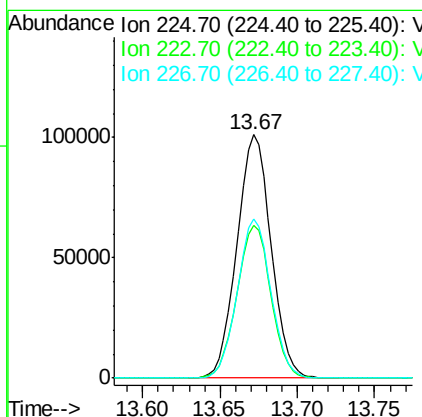
Manual Integrations
 APPROVED

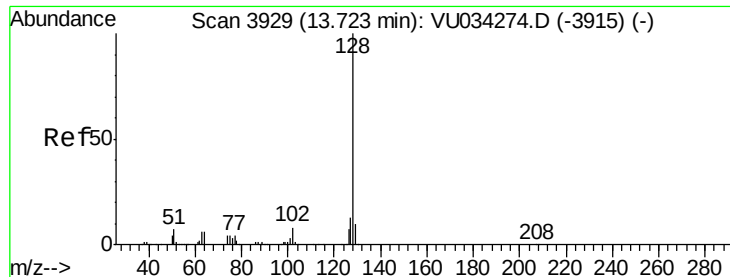
MMDadoda
 9/10/2019 10:48:54 AM



#94
 Hexachlorobutadiene
 Concen: 46.353 ug/l
 RT: 13.67 min Scan# 3913
 Delta R.T. -0.00 min
 Lab File: VU034342.D
 Acq: 06 Sep 2019 19:40

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.3	31.6	94.7
227	64.0	32.3	96.8





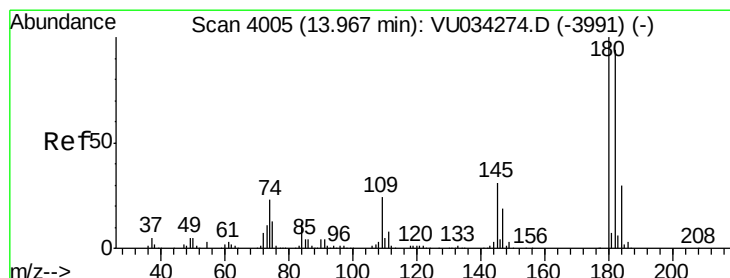
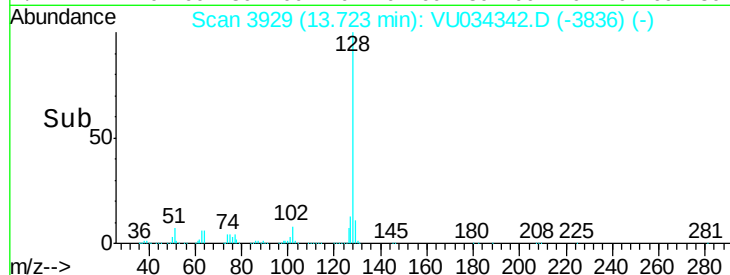
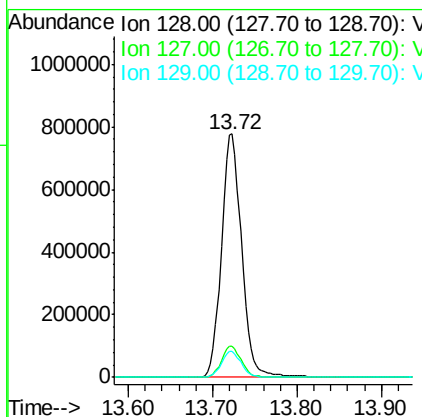
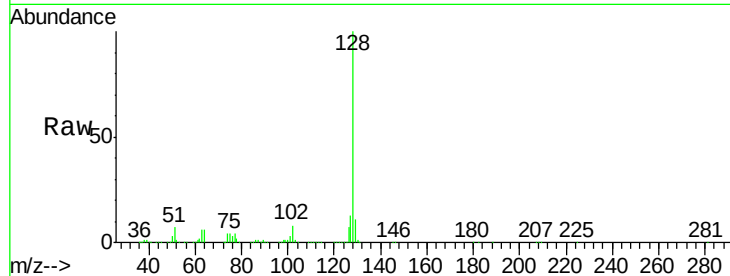
#95
Naphthalene
Concen: 65.006 ug/l
RT: 13.72 min Scan# 3929
Delta R.T. 0.00 min
Lab File: VU034342.D
Acq: 06 Sep 2019 19:40

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MS

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

Manual Integrations
APPROVED

MMDadoda
9/10/2019 10:48:54 AM



#96
1,2,3-Trichlorobenzene
Concen: 50.914 ug/l
RT: 13.97 min Scan# 4005
Delta R.T. 0.00 min
Lab File: VU034342.D
Acq: 06 Sep 2019 19:40

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.0	48.4	145.0
145	29.8	15.4	46.4

